

Intermountain Health

Intermountain Life Flight Life Flight Simulator

2284 160 N
Salt Lake City, UT 84116

Bid Set

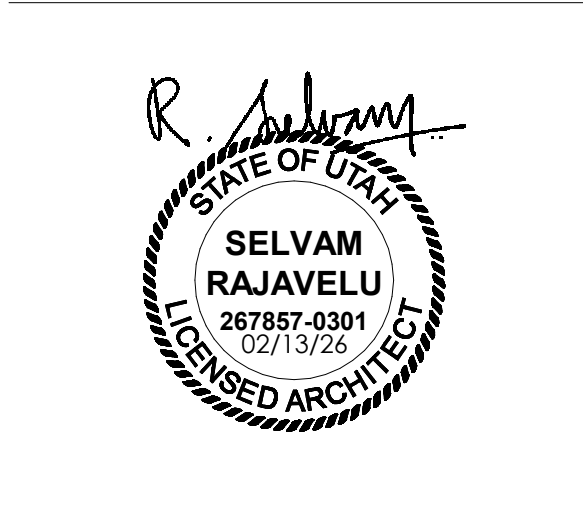
IH PROJECT #: 10017913

NOTES ON VENDOR SUPPLIED EQUIPMENT INSTALLATION
EQUIPMENT DOCUMENTATION AND LITERATURE FOR THE VARIOUS SIMULATOR EQUIPMENT (MOOG MOTION BASE, LEONARDO FLIGHT SIMULATOR, AND MARSHALL INTEGRATION) HAVE BEEN INCLUDED FOR COORDINATION PURPOSES. INTERMOUNTAIN HEALTH SHALL PAY MOOG, LEONARDO AND MARSHALL FOR THEIR CONSTRUCTION WORK. THE GENERAL CONTRACTOR THEIR SUBCONTRACTORS SHALL COORDINATE WITH THE SITE PREPARATION SPECIFICATIONS INCLUDED IN THE PROJECT MANUAL AND PROVIDE REQUIRED WORK SCHEDULING AND COORDINATION WITH VENDORS DURING CONSTRUCTION. ANY ITEMS MENTIONED AS, "PROVIDED OTHERS" (OR WHERE A PROVISION IS TO SUPPLIED BY THE VENDOR IS NOT EXPLICITLY INDICATED) IN THE VENDORS' LITERATURE SHALL BE PROVIDED BY THE GENERAL CONTRACTOR AND THEIR SUBCONTRACTORS. IF THERE IS ANY CLARIFICATION REQUIRED, CONTRACTORS SHALL CHECK WITH THE A/E DESIGN TEAM DURING THE BIDDING PHASE. ANY WORK REQUIRED BY EQUIPMENT VENDORS, AND LISTED IN VENDORS' DRAWINGS AS "BY OTHERS" THAT IS OMITTED BY THE GENERAL CONTRACTOR AND THEIR SUBCONTRACTORS IN THEIR ORIGINAL BIDS MUST BE PROVIDED AT NO COST TO THE OWNER.
CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING OF ANY WASTE OR PACKAGING, IN ACCORDANCE WITH THE SPECIFICATIONS, GENERATED BY THE OWNER'S EQUIPMENT VENDORS AS IT RELATES TO EQUIPMENT PACKAGING AND INSTALLATION UNLESS NOTED OTHERWISE IN THE INDIVIDUAL VENDORS' DRAWINGS. COORDINATE WITH EACH VENDOR FOR PACKAGING TO BE DISPOSED.

DESIGN TEAM	
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MECHANICAL ENGINEER Resolut Group 181 E 5600 S Suite 200 Murray UT 84124 Phone: 801.530.3148 Contacts: Project Manager: Jed Lyman Email: jlyman@resolutgroup.com	
ELECTRICAL ENGINEER Spectrum Engineers 324 South State Street, Suite 400 Salt Lake City, Utah 84111 Phone: 801.328.5151 Contacts: Project Manager: Jason Warthen Email: Jason.Warthen@speceng.com	
STRUCTURAL ENGINEER Reaveley Engineers 675 East 500 South, Suite 400 Salt Lake City, Utah 84102 Phone: 801.505.4015 Contacts: Project Manager: Dorian Adams Email: dadams@reaveley.com	



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Life Flight Simulator

2284 160 N
Salt Lake City, UT 84116

NJRA Project # 25252.00
Bid Set Feb 13, 2025

Cover Sheet

G001

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INTERIM LIFE SAFETY MEASURES

IMPLEMENTATION OF INTERIM LIFE SAFETY MEASURES (ILSM) IS REQUIRED IN OR ADJACENT TO ALL CONSTRUCTION AREAS AND THROUGHOUT BUILDINGS WITH EXISTING LSC DEFICIENCIES. ILSM APPLY TO ALL PERSONNEL, INCLUDING CONSTRUCTION WORKERS, MUST BE IMPLEMENTED UPON PROJECT DEVELOPMENT, AND CONTINUOUSLY ENFORCED THROUGH PROJECT COMPLETION. ILSM ARE INTENDED TO PROVIDE A LEVEL OF LIFE SAFETY COMPARABLE TO THAT DESCRIBED IN CHAPTERS 1 THROUGH 7, 31 AND THE APPLICABLE OCCUPANCY CHAPTERS OF THE LSC. EACH ILSM ACTION MUST BE DOCUMENTED THROUGH WRITTEN POLICIES AND PROCEDURES. EXCEPT AS STATED BELOW, FREQUENCIES FOR INSPECTION, TESTING, TRAINING, AND ILSM CONSIST OF THE FOLLOWING ACTIONS:

1. ENSURING EXITS PROVIDE FREE AND UNOBSTRUCTED EGRESS. PERSONNEL SHALL RECEIVE TRAINING IF ALTERNATIVE EXITS MUST BE DESIGNATED. BUILDINGS OR AREAS UNDER CONSTRUCTION MUST MAINTAIN ESCAPE FACILITIES FOR CONSTRUCTION WORKERS AT ALL TIMES. MEANS OF EGRESS IN CONSTRUCTION AREAS MUST BE INSPECTED DAILY.
2. ENSURING FREE AND UNOBSTRUCTED ACCESS TO EMERGENCY DEPARTMENTS/ SERVICES AND FOR EMERGENCY FORCES.
3. ENSURE FIRE ALARM, DETECTION, AND SUPPRESSION SYSTEMS ARE NOT IMPAIRED. A TEMPORARY, BUT EQUIVALENT, SYSTEM SHALL BE PROVIDED WHEN ANY FIRE SYSTEM IS IMPAIRED. TEMPORARY SYSTEMS MUST BE INSPECTED AND TESTED MONTHLY.
4. ENSURING TEMPORARY CONSTRUCTION PARTITIONS ARE SMOKE TIGHT AND BUILT OF NONCOM OR LIMITED COMBUSTIBLE MATERIALS THAT WILL NOT CONTRIBUTE TO THE DEVELOPMENT OR SPREAD OF FIRE.
5. PROVIDING ADDITIONAL FIRE-FIGHTING EQUIPMENT AND USE TRAINING OF PERSONNEL.
6. PROHIBITING SMOKING IN ACCORDANCE WITH MA.1.3.1.5 AND IN OR ADJACENT TO ALL CONSTRUCTION AREAS.
7. DEVELOPING AND ENFORCING STORAGE, HOUSEKEEPING, AND DEBRIS REMOVAL PRACTICES THAT REDUCE THE FLAMMABLE AND COMBUSTIBLE FIRE LOAD OF THE BUILDING TO THE LOWEST LEVEL NECESSARY FOR DAILY OPERATIONS.
8. CONDUCTING A MINIMUM OF TWO FIRE DRILLS PER SHIFT PER QUARTER.
9. INCREASING HAZARD SURVEILLANCE OF BUILDINGS, GROUNDS, AND EQUIPMENT WITH SPECIAL ATTENTION TO EXCAVATIONS, CONSTRUCTION AREAS CONSTRUCTION STORAGE, AND FIELD OFFICES.
10. TRAINING PERSONNEL WHEN STRUCTURAL OR COMPARTMENT FEATURES OF FIRE SAFETY ARE COMPROMISED.
11. CONDUCTING ORGANIZATION WIDE SAFETY EDUCATION PROGRAMS TO ENSURE AWARENESS OF ANY LSC DEFICIENCIES, CONSTRUCTION HAZARDS, AND THESE ILSM.

PROJECT DESCRIPTION

PROJECT DESCRIPTION:
THIS PROJECT INVOLVES THE CONSTRUCTION OF A LIFE FLIGHT SIMULATION SPACE FOR INTERMOUNTAIN LIFE FLIGHT LOCATED INSIDE AN EXISTING SECURE AIRCRAFT HANGAR. THE SCOPE INCLUDES TWO SEPARATE SIMULATION ROOMS FOR MEDICAL AIRCRAFT SIMULATION AND A FLIGHT SIMULATOR. BOTH SIMULATION MODULES ARE CONSTRUCTED WITHIN A SINGLE ENVELOPE IN THE EXISTING HANGAR ENVELOPE, INTEGRATING POWER, COMMUNICATIONS, AND SAFETY SYSTEMS WHILE MAINTAINING ALL CURRENT SECURITY PROTOCOLS AND OPERATIONAL REQUIREMENTS OF THE FACILITY. EXISTING MEANS OF EGRESS AND OCCUPANT LOADS REMAIN UNCHANGED. HEAT PUMPS WILL BE MOUNTED ON THE ROOF OF THE EXISTING HANGAR BUT THE EXTERIOR ENVELOPE OF THE EXISTING HANGAR IS OTHERWISE NOT MODIFIED.

APPROVALS

Approvers Name, Title

Date

Approvers Name, Title

Date

Approvers Name, Title

Date

Approvers Name, Title

Date

ABBREVIATIONS

& AND	DWL DOWEL	INT. INTERIOR
@ AT	DN. DOWN	INV. INVERT
Ø DIAMETER	D.S. DOWN SPOUT	
(E), EXIST. EXISTING	D.W.V. DRAINAGE WASTE VENT	
(N) NEW	DWG. DRAWING	J JAN., JANITOR
d PENNY		JT. JOINT
# POUND OR NUMBER		JST. JOIST
A	E EA., EACH	
AC ACOUSTIC	E.W.C. ELEC. WATER COOLER	
ADD ADDENDUM	EL./ELEC. ELECTRIC	
A/C AIR CONDITIONING	ELEV. ELEVATION	
AL. ALTERNATE	EQ. EQUAL	
AL. ALUMINUM	EQUIP. EQUIPMENT	
A.B. ANCHOR BOLT	EXH. EXHAUST	
ARCH ARCHITECT(JR/L)	EXIST. EXISTING	
ASP. ASPHALT	E.J. EXPANSION JOINT	
	EXT. EXTERIOR	
B	F FT., FEET	
BSMT. BASEMENT	FV/F.V. FIELD VERBIF	
B.M. BENCHMARK	FIN. FINISH(ED)	
BLKG. BLOCKING	F.E. FIRE EXTINGUISHER	
BD. BOARD	F.E.C. FIRE EXTINGUISHER CABINET	
B.O. BOTTOM OF	FIXT. FIXTURE	
BLDG. BUILDING	FL. FLASHING	
C	G GALV., GALVANIZED	
CABT CABINET	GA. GAUGE	
C.I.P. CAST IN PLACE	G.C. GENERAL CONTRACTOR	
C.B. CATCH BASIN	G.S.N. GENERAL STRUCTURAL NOTES	
C.G. CEBLING	GL. GLASS	
CL. CENTER LINE	GD. GRADE	
C.T. CERAMIC TILE	GRL. GRILLE	
CH CHANNEL	GRD. GROUND	
C.O. CLEAN OUT	GYP. GYPSUM	
CLR. CLEAR		
CL. CLOSET	H HDW., HARDWARE	
COL. COLUMN	HDWD. HARDWOOD	
CONC. CONCRETE	HTR. HEATER	
CMU CONCRETE MASONRY UNIT	HT. HEIGHT	
COND. CONDITION	H.P. HIGH POINT	
CONNL CONNECTION	H.M. HOLLOW METAL	
CONST. CONSTRUCTION	HORIZ. HORIZONTAL	
CONT CONTINUOUS	H.B. HOSE BIB	
C.J CONTROL JOINT	H.W. HOT WATER	
	HR. HOUR	
D	I IN., INCH	
D.P. DAMP PROOFING	I.D. INSIDE DIAMETER	
D.B. DECK BEARING	INSUL. INSULATION	
DIAG. DIAGONAL		
DIA. DIAMETER		
DIM. DIMENSION		
DSP. DISPENSER		

VICINITY MAP



DEFERRED SUBMITTALS

THE CONTRACTOR SHALL SUBMIT THE FOLLOWING TO THE BUILDING OFFICIAL FOR REVIEW WITH AN ACCOMPANYING LETTER FROM THE ARCHITECT STATING THAT THE CONTENTS OF THE SUBMITTAL ARE IN CONFORMANCE WITH THE DESIGN. WORK RELATED TO THE DEFERRED SUBMITTAL IS NOT TO COMMENCE UNTIL THE BUILDING OFFICIAL HAS APPROVED THE SUBMITTAL.

1. DETAILS AND ENGINEERING CALCULATIONS FOR ALL NONSTRUCTURAL COMPONENTS THAT ARE PERMANENTLY ATTACHED TO STRUCTURES AND THEIR SUPPORTS AND ATTACHMENTS. THESE SHALL BE DESIGNED AND CONSTRUCTED TO RESIST THE EFFECTS OF EARTHQUAKE MOTIONS IN ACCORDANCE WITH ASCE 7-05. REFERENCE IBC SECTION 1613.1. THIS INCLUDES:
 - ELECTRICAL SYSTEMS
 - MECHANICAL SYSTEMS
 - PLUMBING SYSTEMS
 - DECORATIVE ARCHITECTURAL COMPONENTS.
2. DETAILS AND ENGINEERING CALCULATIONS FOR THE FIRE SPRINKLER AND FIRE DETECTION SYSTEMS, WHICH ARE TO BE DESIGN-BUILD BY THE CONTRACTOR TO COMPLY WITH NFPA 13 AND SHALL INCLUDE:
 - FIRE ALARM PLANS (INCLUDING CO DETECTOR LOCATIONS)
 - AUTOMATIC FIRE SPRINKLER PLANS
 - HOOD FIRE SUPPRESSION
 - CLASS 'K' FIRE EXTINGUISHER LOCATION(S)
3. STRUCTURAL TRUSS AND JOIST DESIGNS (AS LISTED IN THE STRUCTURAL DRAWINGS).

SPECIAL INSPECTIONS

SEE STRUCTURAL DRAWINGS FOR SPECIAL INSPECTIONS REQUIRED.

DEFINITIONS

1. GENERAL: BASIC CONTRACT DEFINITIONS ARE INCLUDED IN THE CONDITIONS OF THE CONTRACT.
2. "APPROVED": WHEN USED TO CONVEY ARCHITECT'S ACTION ON CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, "APPROVED" IS LIMITED TO ARCHITECT'S DUTIES AND RESPONSIBILITIES AS STATED IN THE CONDITIONS OF THE CONTRACT.
3. "DIRECTED": A COMMAND OR INSTRUCTION BY ARCHITECT. OTHER TERMS INCLUDING "REQUESTED," "AUTHORIZED," "SELECTED," "REQUIRED," AND "PERMITTED" HAVE THE SAME MEANING AS "DIRECTED."
4. "INDICATED": REQUIREMENTS EXPRESSED BY GRAPHIC REPRESENTATIONS OR IN WRITTEN FORM ON DRAWINGS, IN SPECIFICATIONS, AND IN OTHER CONTRACT DOCUMENTS. OTHER TERMS INCLUDING "SHOWN," "NOTED," "SCHEDULED," AND "SPECIFIED" HAVE THE SAME MEANING AS "INDICATED."
5. "REGULATIONS": LAWS, ORDINANCES, STATUTES, AND LAWFUL ORDERS ISSUED BY AUTHORITIES HAVING JURISDICTION, AND RULES, CONVENTIONS, AND AGREEMENTS WITHIN THE CONSTRUCTION INDUSTRY THAT CONTROL PERFORMANCE OF THE WORK.
6. "TURNISH": SUPPLY AND DELIVER TO PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS.
7. "INSTALL": UNLOAD, TEMPORARILY STORE, UNPACK, ASSEMBLE, ERECT, PLACE, ANCHOR, APPLY, WORK TO DIMENSION, FINISH, CURE, PROTECT, CLEAN, AND SIMILAR OPERATIONS AT PROJECT SITE.
8. "PROVIDE": FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.
9. "PROJECT SITE": SPACE AVAILABLE FOR PERFORMING CONSTRUCTION ACTIVITIES. THE EXTENT OF PROJECT SITE IS SHOWN ON DRAWINGS AND MAY OR MAY NOT BE IDENTICAL WITH THE DESCRIPTION OF THE LAND ON WHICH PROJECT IS TO BE BUILT.

DRAWING INDEX

GENERAL

G001	Cover Sheet
G002	General Information
G003	General Information
G004	American National Standard Institute Requirements
G005	General Legend & Notes

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S002	Legends & Abbreviations
SF101	Floor and Roof Framing Plans
SF102	Structural Framing Elevations
SW501	Typical Cold-Formed Steel Stud Details
SW502	Steel Stud Details
SW503	Steel Stud Roof Details
SW601	Steel Stud Wall and Wood Schedules and Details

ARCHITECTURAL

A113	Floor Plan Level 1 - Overall
A120	Floor Plan Level 3 - Overall

A202 Exterior Elevations - Overall

A351 Wall Sections

A401 Enlarged Views
A402 Enlarged Views

A501A Wall Types
A502A Wall Details
A503A Ceiling Details
A506A Details

A601A Door Schedule

MECHANICAL

M001	HVAC Title Sheet
M113	Mechanical Plan Level 1 - Overall
M401	Enlarged Mechanical Plan
M501	Mechanical Details
M601	Mechanical Schedules

PLUMBING

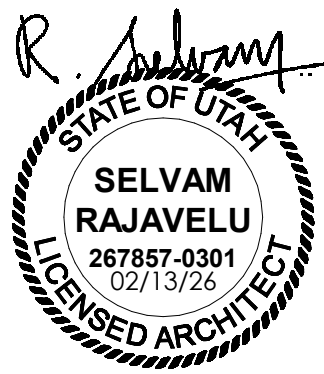
P001	Plumbing Title Sheet
P113	Plumbing Plan Level 1 - Overall
P401	Enlarged Plumbing Plan
P501	Plumbing Details
P601	Plumbing Schedules

ELECTRICAL

E001	Electrical Cover Sheet
E002	Symbols Legend
E0501	Electrical Details
EE701	Typical Mounting Details
EE702	Typical Labeling Details
EP100	Level 1 Overall Power Plan
EP101	Level 1 Power Plan
EP102	Level 2 Power Plan
EP550	Telecom Equipment Rack Elevations
EP551	Telecom Details
EP601	One-Line Diagrams
EP602	Electrical Equipment and Floorbox Schedules
EP650	Telecom Riser Diagrams
EL101	Level 1 Lighting Plan
EY101	Level 1 Auxiliary Plan



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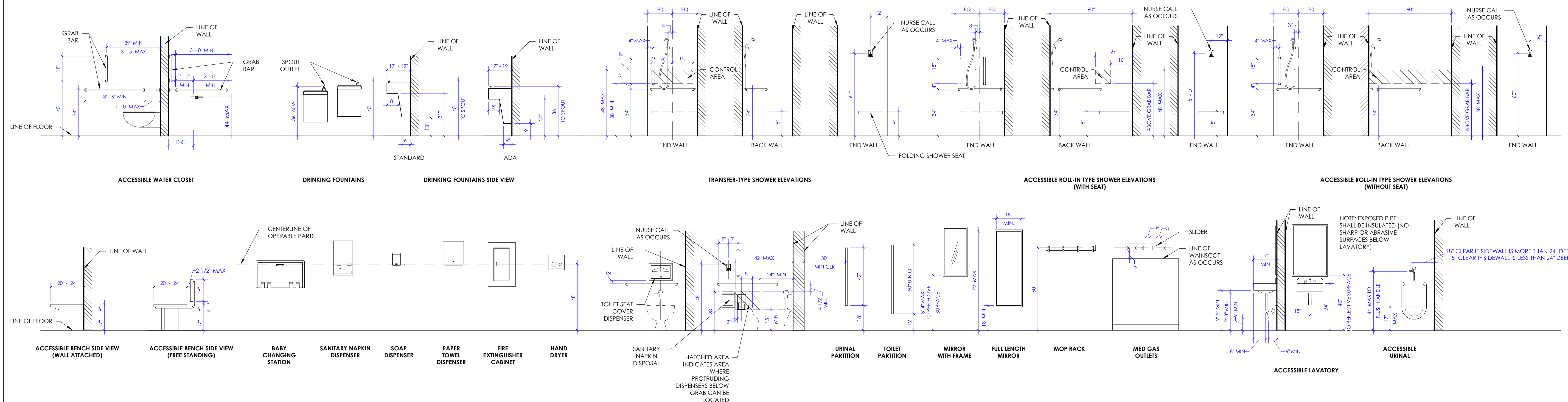
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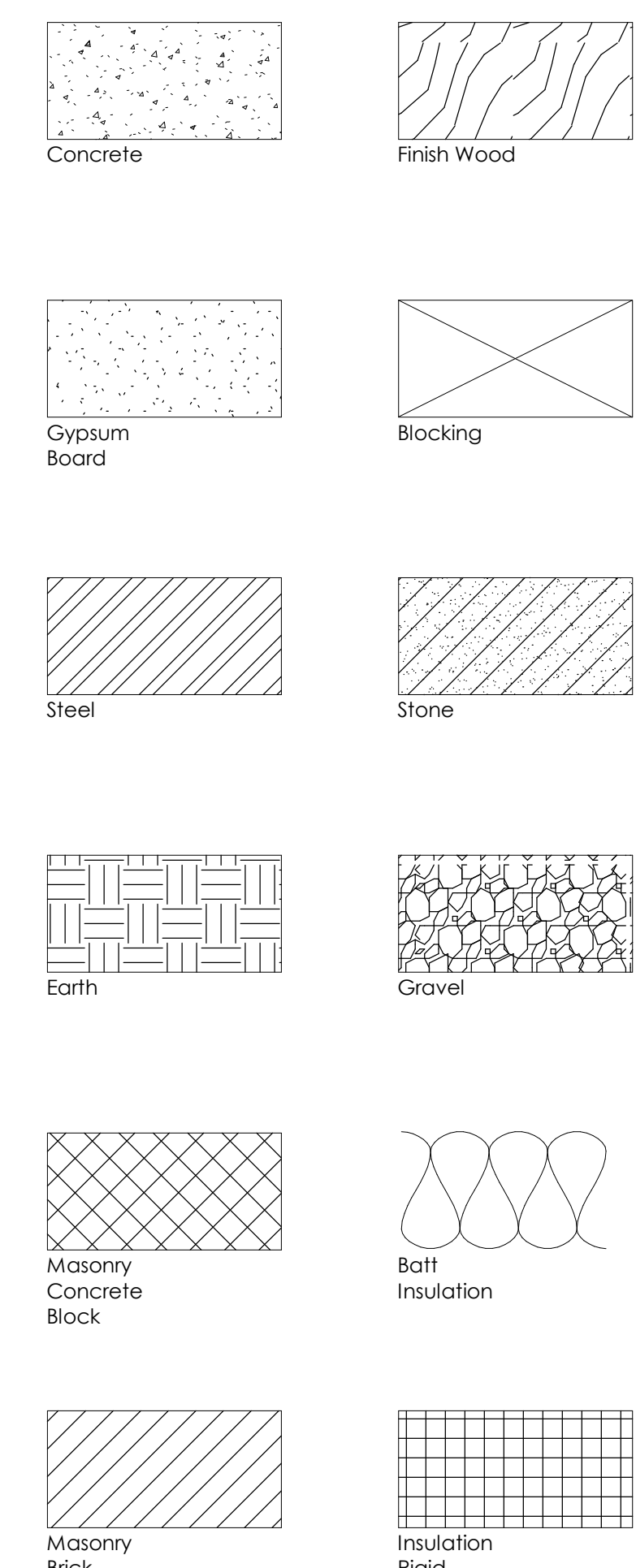
General
Information

G002



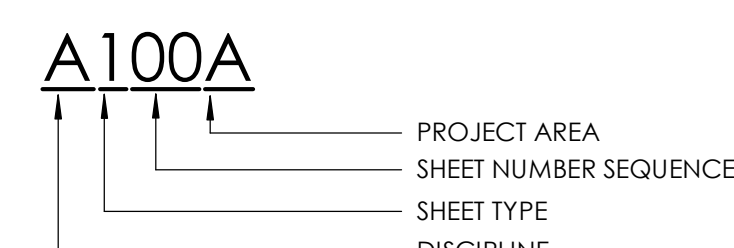
LEGEND - MATERIALS

HATCH PATTERN BELOW INDICATES REPRESENTATION OF BUILDING MATERIALS IN BUILDING SECTIONS, WALL SECTIONS AND DETAILS.

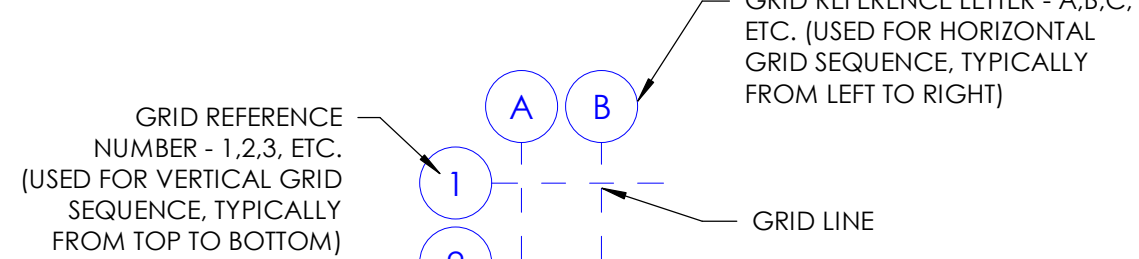


GENERAL INFORMATION SYMBOLS & TAGS

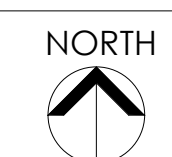
SHEET NUMBERING SYSTEM



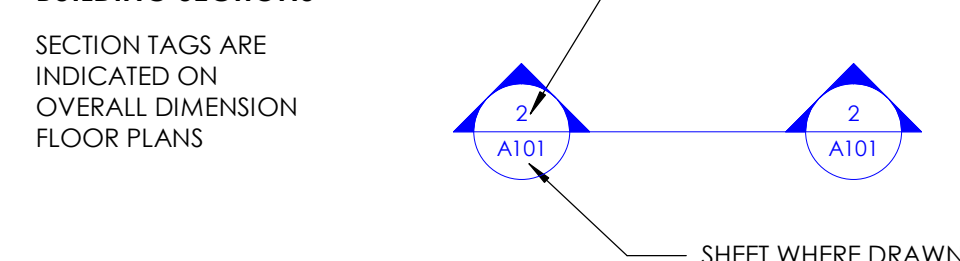
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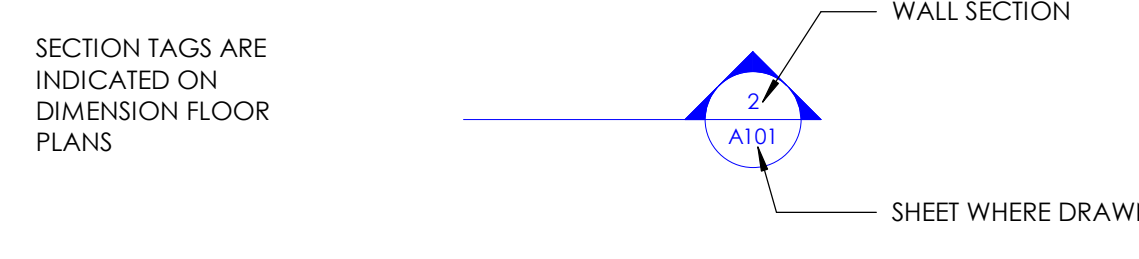
NORTH ARROW



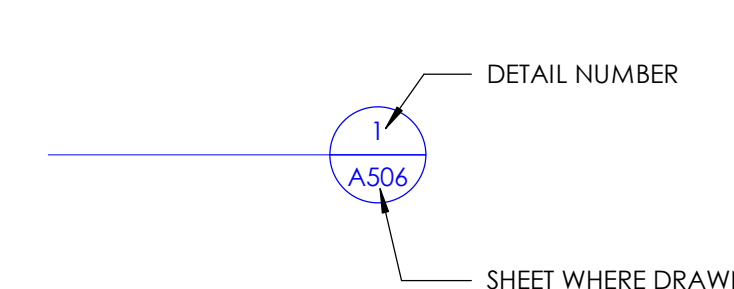
BUILDING SECTIONS



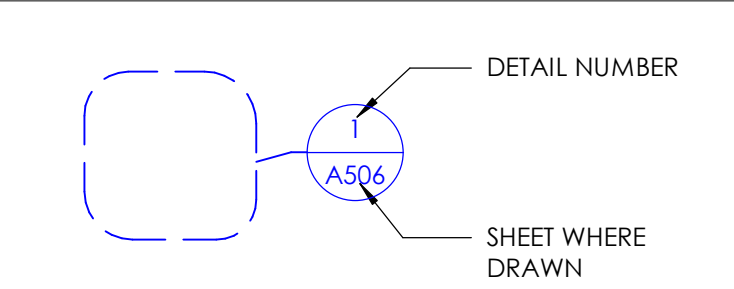
WALL SECTIONS



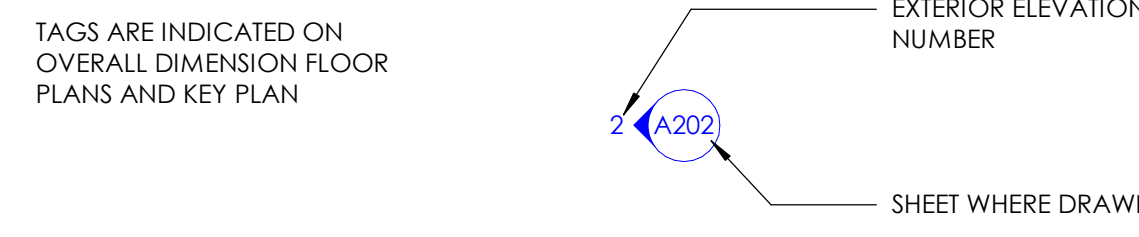
DETAIL TAGS



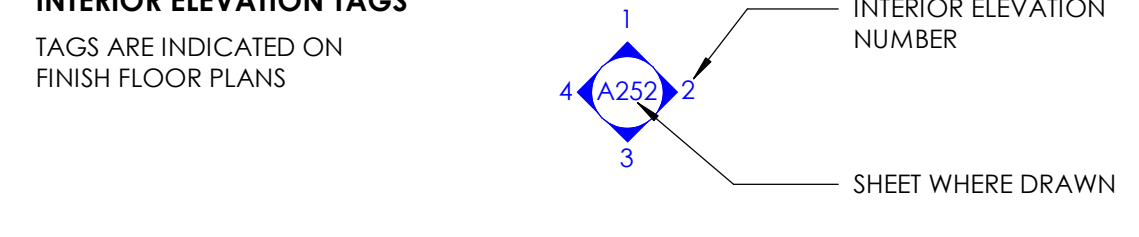
DETAIL TAGS



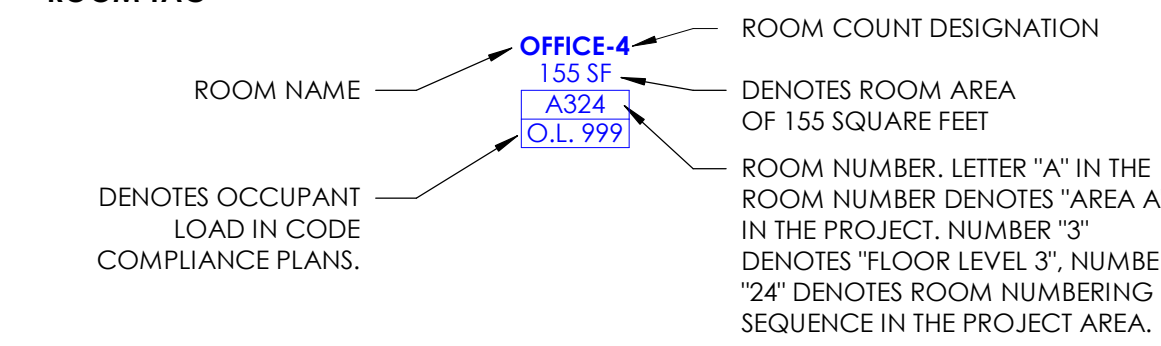
EXTERIOR ELEVATION TAGS



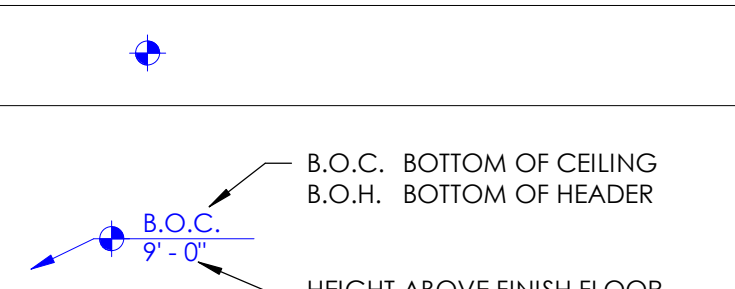
INTERIOR ELEVATION TAGS



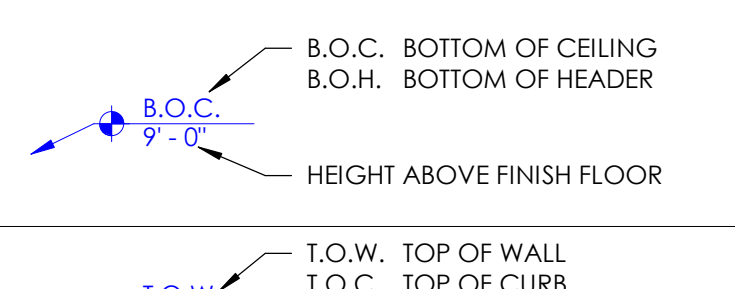
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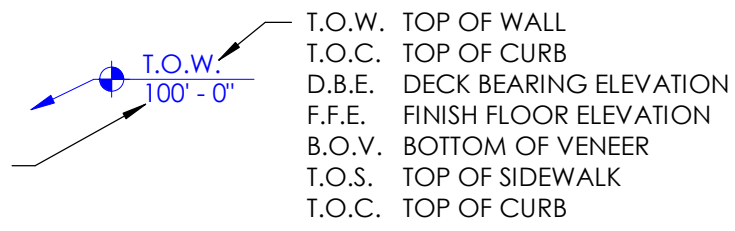
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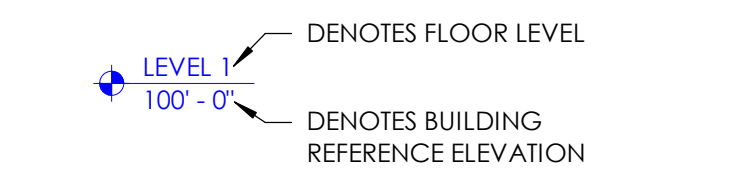
CEILING HEIGHT TAG



SPOT ELEVATION



VERTICAL ELEVATION



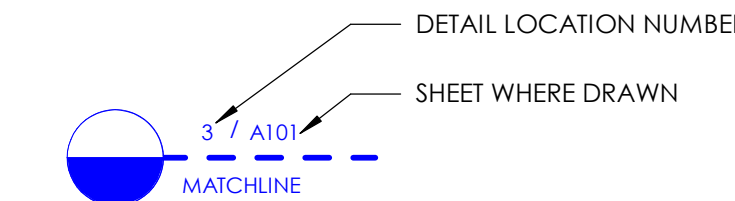
CENTER LINE



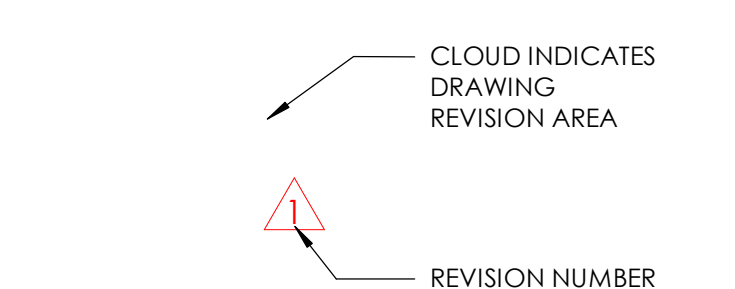
FLOW ARROW



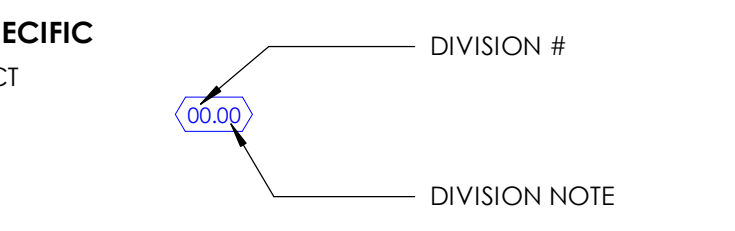
FLOOR PLAN MATCHLINE



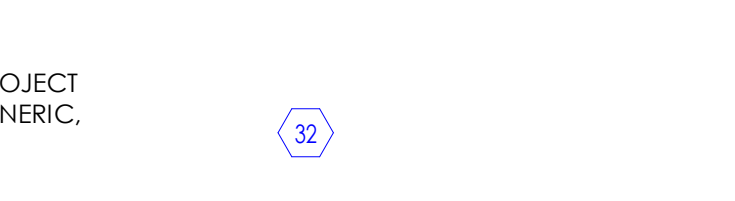
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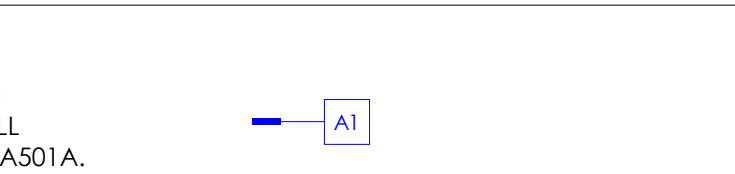
KEYED NOTES - PROJECT SPECIFIC



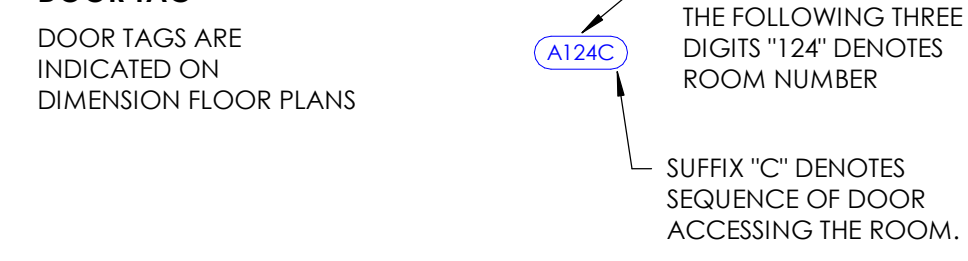
KEYED NOTES - GENERIC



WALL TAG



DOOR TAG



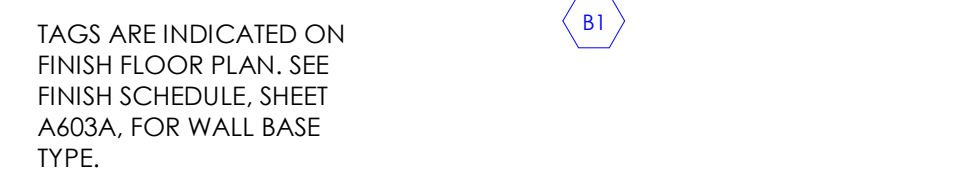
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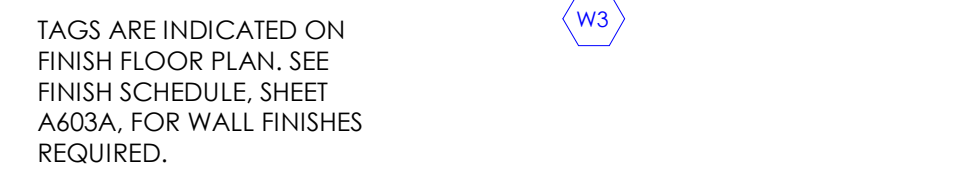
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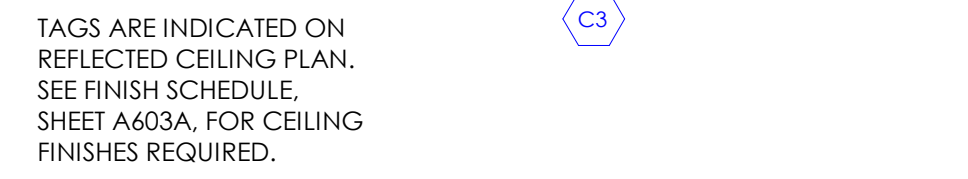
WALL BASE TAG



WALL FINISH TAG



CEILING FINISH TAG



OTHER FINISH TAG



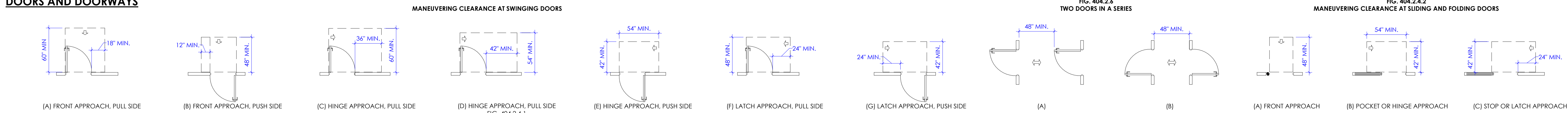
CABINET TAG



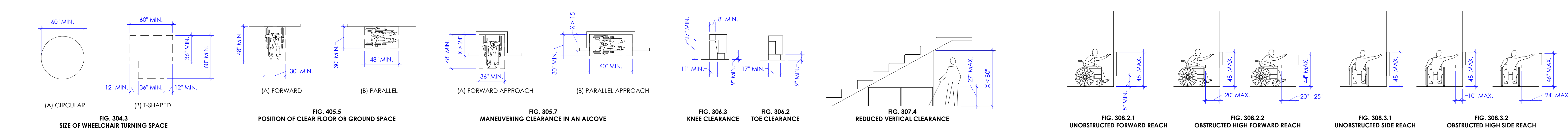
SIGN TAG



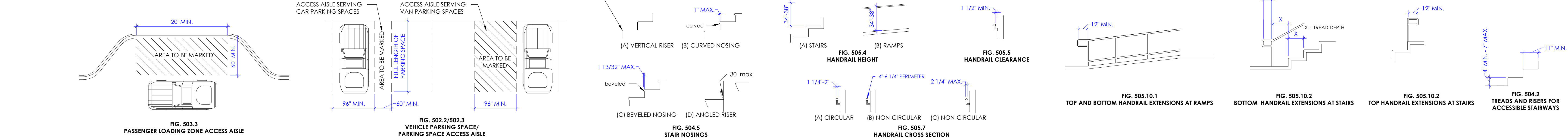
DOORS AND DOORWAYS



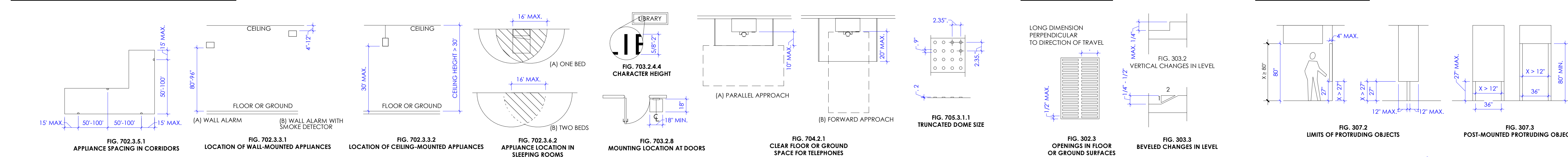
CLEAR FLOOR SPACE



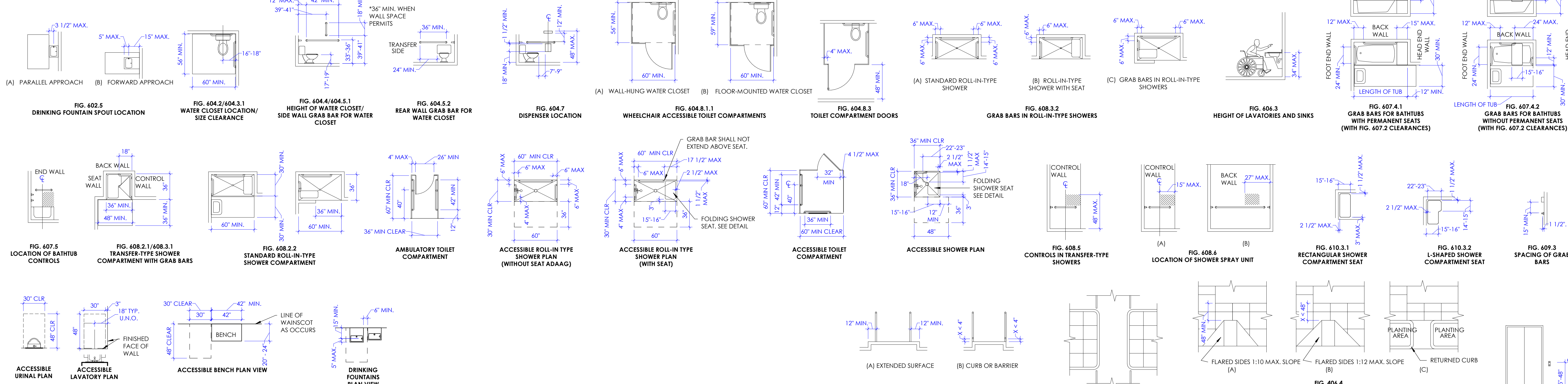
GENERAL SITE AND BUILDING ELEMENTS



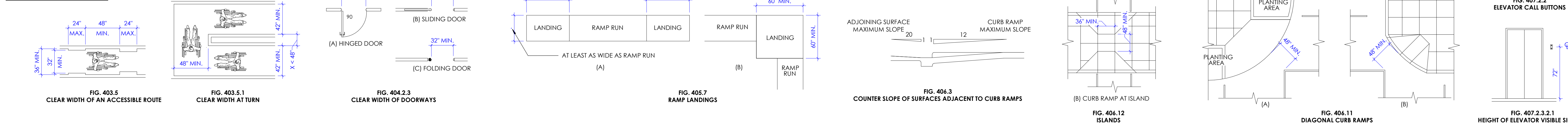
COMMUNICATION ELEMENTS AND FEATURES



PLUMBING ELEMENTS AND FACILITIES



ACCESSIBLE ROUTES



GENERAL NOTES

- A. STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS (IF PRESENT) ARE SUPPLEMENTAL TO THE ARCHITECTURAL DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO CHECK WITH THE ARCHITECTURAL DRAWINGS BEFORE THE INSTALLATION OF MECHANICAL OR ELECTRICAL CONSTRUCTION. ANY DISCREPANCIES BETWEEN THE ARCHITECTURAL AND CONSULTING ENGINEERS' DRAWINGS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION FOR CLARIFICATION. ANY CONSTRUCTION INSTALLED IN CONFLICT WITH THE ARCHITECTURAL DRAWINGS SHALL BE CORRECTED BY THE GENERAL CONTRACTOR AT HIS/HER OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR ARCHITECT.
- B. ALL WORK SHALL COMPLY WITH THE CURRENT ADA ACCESSIBILITY GUIDELINES (AMERICANS WITH DISABILITIES ACT).
- C. REFER TO THE CODE COMPLIANCE PLAN FOR APPLICABLE CODES GOVERNING THIS WORK. CODE REQUIREMENTS AND REGULATIONS SHALL BE CONSIDERED AS MINIMUM, WHERE THE CONTRACT DOCUMENTS EXCEED (WITHOUT VIOLATING) CODE AND REGULATION REQUIREMENTS, CONTRACT DOCUMENTS SHALL TAKE PRECEDENCE. IF CONFLICT EXIST, THE MORE STRINGENT SHALL APPLY. COMPLY WITH REQUIREMENTS OF THE ADOPTED EDITIONS OF THE INTERNATIONAL CODE COUNCIL CODES, THE CODES AND STANDARDS REFERENCED WITHIN THE ICC CODES AND THE AMERICANS WITH DISABILITIES ACT.
- D. THE CONTRACTOR SHALL PROVIDE ADEQUATE BARRICADES AND PROTECTIVE DEVICES SEPARATING CONSTRUCTION AREAS. TEMPORARY PASSAGES SHALL BE PROVIDED AS REQUIRED, PRIOR TO DELIVERY OF MATERIALS TO CONSTRUCTION ZONE AND REMOVAL OF WASTE FROM SITE. THE CONTRACTOR SHALL CHECK WITH THE OWNER FOR AN ACCEPTABLE ROUTE AND TIME.
- E. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER LOCATION AND SIZE OF OPENINGS FOR ALL TRADES AND SHALL COORDINATE ALL CONSTRUCTION AS INDICATED BY THE CONTRACT DOCUMENTS, INCLUDING SHOP DRAWINGS REVIEWED BY THE ARCHITECT.
- F. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF WORK.
- G. FOR ALL REMODEL WORK AS OCCURS, THE CONTRACTOR SHALL COORDINATE WITH THE OWNER ALL MEASURES TO ACCOMPLISH THE WORK WITH THE MINIMUM OF INTERRUPTION TO NORMAL BUILDING PROCEDURES. SYSTEM SHUTDOWNS OF HVAC, PLUMBING, ELECTRICAL, AND NOISY CONSTRUCTION INCLUDING ROTO HAMMER, SAW CUTTING, CONCRETE ANCHORS, ETC. SHALL BE COORDINATED WITH THE OWNER AT LEAST 72 HOURS PRIOR TO COMMENCEMENT.
- H. ALL DIMENSIONS ARE SHOWN TO FACE OF GYPSUM BOARD OF NEW CONSTRUCTION OR STRUCTURAL WALL, UNLESS NOTED OTHERWISE.
- I. ALL DRAWINGS, THOUGH NOTED TO SCALE ARE FOR ILLUSTRATION ONLY. THE CONTRACTOR SHALL NOT SCALE DRAWINGS.
- J. WHEN A DETAIL IS IDENTIFIED AS TYPICAL, THE CONTRACTOR IS TO APPLY THIS DETAIL IN ESTIMATING AND CONSTRUCTION TO EVERY LIKE CONDITION WHETHER OR NOT THE REFERENCE IS REPEATED IN EVERY INSTANCE.
- K. DRAWINGS HAVE BEEN DETAILED IN COMPLIANCE WITH U.L. LISTING REQUIREMENTS AND ICBO REPORTS FOR THE MATERIALS SPECIFIED. IF AN ALTERNATE OR SUBSTITUTED MATERIAL IS ACCEPTED AS AN EQUAL BY THE GENERAL CONTRACTOR, HE/SHE WILL ASSUME THE RESPONSIBILITY FOR WHATEVER CONSTRUCTION MODIFICATION AND/OR ADDITIONAL COSTS ARE REQUIRED.
- L. ALL TRASH SHALL BE REMOVED DAILY. BUILDING MATERIALS MAY NOT BE STORED IN THE CORRIDORS AT ANY TIME. BLOCKAGE OF ANY REQUIRED EXIT IS PROHIBITED.
- M. ALL PENETRATIONS INTO SOUND OR FIRE RATED PARTITIONS, FLOORS OR CEILING ASSEMBLIES SHALL BE SEALED WITH APPROVED PERMANENT RESILIENT SEALANT. REFER TO IBC, CURRENT VERSION FOR REQUIREMENTS FOR OPENINGS IN FIRE RATED WALLS. FOR OPENINGS LESS THAN 16 SQUARE INCHES, THE SPACE BETWEEN THE WALL AND ALLOWED PENETRATIONS MUST BE SEALED TO PREVENT THE MOVEMENT OF HOT FLAME OR GASES. ELECTRICAL DEVICES, RECESSED CABINETS, ETC. SHALL BE SEALED, UNED, INSULATED OR OTHERWISE TREATED TO MAINTAIN THE INTEGRITY OF THE ASSEMBLY. SEE PENETRATION DETAILS.
- N. ABBREVIATIONS THROUGHOUT THE PLAN ARE THOSE IN COMMON USE. THE ARCHITECT SHALL DEFINE THE INTENT OF ANY IN QUESTION.
- O. THE CONTRACTOR SHALL VERIFY SIZES AND LOCATIONS OF WATER AND DRAIN INSTALLATIONS AND OTHER REQUIRED SERVICES WITH EQUIPMENT MANUFACTURERS.
- P. MAINTAIN ALL EXISTING SPRAY-APPLIED FIRE PROOFING ON STEEL STRUCTURAL MEMBERS, WHERE EXISTING FIRE PROOFING IS REMOVED FOR INSTALLATION OF NEW BEAMS, UNISTRUTS, ETC. THE CONTRACTOR SHALL PATCH AGAIN WITH EQUIVALENT FIRE PROOFING MATERIAL TO MATCH ADJACENT EXISTING MATERIAL.
- Q. ALL WOOD CANTS, NAILERS, CURBS, ETC. THROUGHOUT JOB SHALL BE FIRE RETARDANT PRESSURE-TREATED, AS PER I.B.C., CURRENT VERSION. SEE RELEVANT DETAILS.
- R. CONTRACTOR SHALL REFER TO THE PROJECT MANUAL FOR A COMPLETE LIST OF GENERAL CONDITIONS, SPECIAL CONDITIONS AND OTHER NOTES.

GENERAL NOTES - DOOR SCHEDULE

- A. SEE PROJECT MANUAL FOR DOOR HARDWARE SCHEDULE.
- B. SUB-CONTRACTOR UNDER SECTION 'ALUMINUM ENTRANCES AND STOREFRONT,' SHALL PROVIDE ALL THE DOOR HARDWARE FOR ALL ALUMINUM DOORS. SEE DOOR SCHEDULE FOR ALUMINUM DOORS AND THE REQUIRED HARDWARE.
- C. SUB-CONTRACTOR UNDER SECTION 'DOOR HARDWARE,' SHALL PROVIDE ALL THE DOOR HARDWARE FOR ALL THE WOOD AND HOLLOW METAL DOORS. SEE DOOR SCHEDULE FOR WOOD AND HOLLOW METAL DOORS AND THE REQUIRED HARDWARE.
- D. ALL EXTERIOR DOORS SHALL BE INSULATED.
- E. FIELD VERIFY WINDOW AND DOOR FRAME OPENING SIZES BEFORE FRAME INSTALLATION. OVERALL DIMENSIONS INDICATED FOR EACH FRAME TYPE ARE ROUGH OPENING SIZES IN WALLS. CONTRACTOR SHALL ADJUST INNER DIMENSIONS AS REQUIRED TO MAKE DOORS AND WINDOWS WORK.
- F. ELECTRICAL DEVICES SUCH AS MAG. LOCKS, CARD READERS AND ALARM SYSTEMS BEING PART OF THE DOOR FUNCTION ARE INCLUDED AS PART OF THE ELECTRICAL PLANS AND THE HARDWARE GROUPS. GENERAL CONTRACTOR IS RESPONSIBLE TO COORDINATE LOCATIONS OF CARD READERS ETC. SHOWN ON ARCHITECTURAL AND ELECTRICAL DRAWINGS WITH ALL TRADES INVOLVED.
- G. COORDINATE DOORS & GATES OUTSIDE BUILDING WITH SITE PLAN.

GENERAL NOTES - EXTERIOR ELEVATIONS

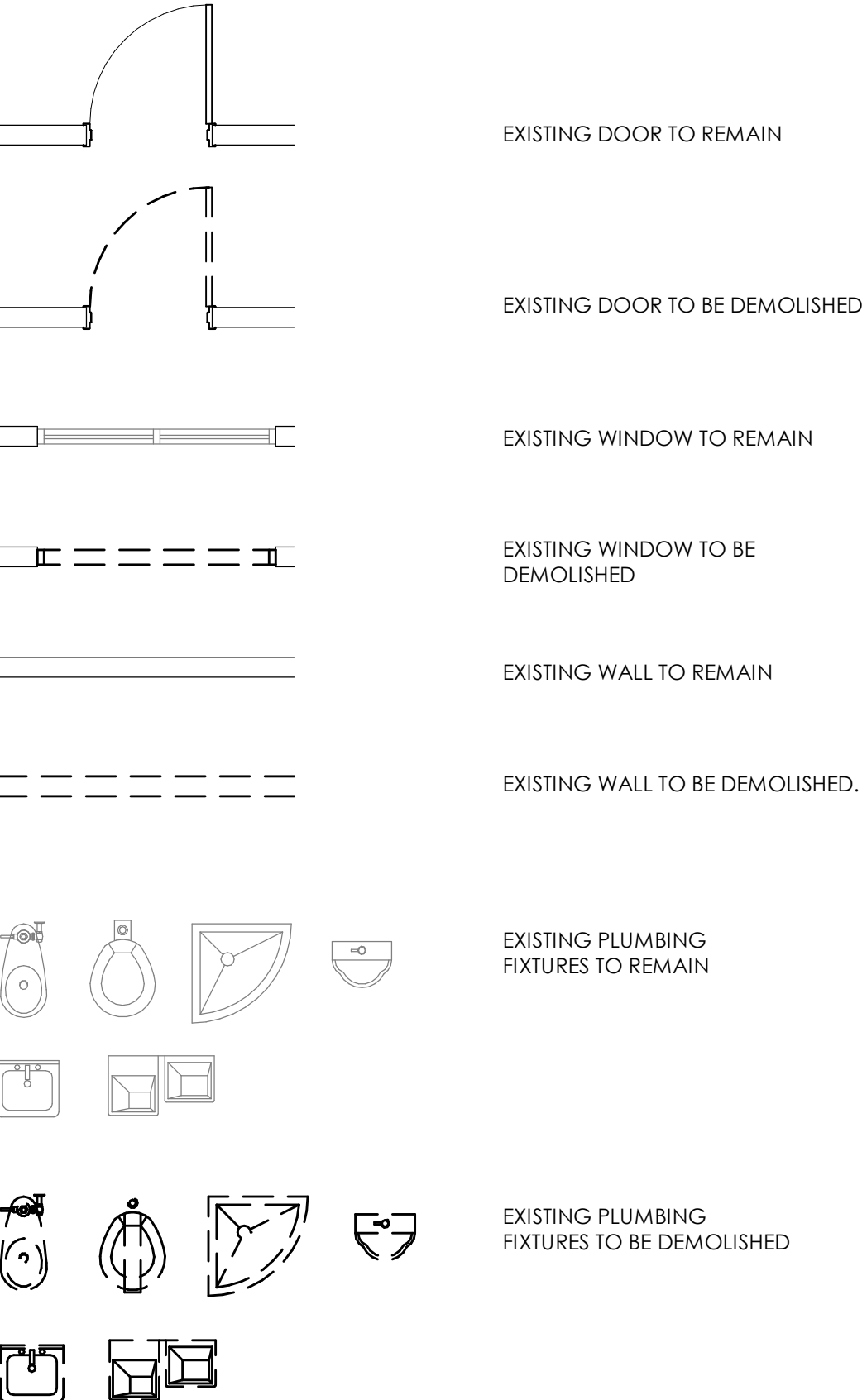
- A. SEE WINDOW SCHEDULE FOR WINDOW OPENINGS AND SILL HEIGHT. SEE DOOR SCHEDULE FOR DOOR OPENING SIZE. SEE LEGEND FOR BRICK VENEER TYPE.
- B. NOT ALL MECHANICAL GRILLES ARE SHOWN ON THESE ELEVATIONS. COORDINATE ALL GRILLE LOCATION AND TYPES WITH MECHANICAL DRAWINGS.
- C. ALL EXTERIOR WALL FINISHES ARE TO BE 6" ABOVE FINISH GRADE TYPICAL. SEE WALL SECTIONS.
- D. ALL FINISHES TO BE INSTALLED PER MANUFACTURER RECOMMENDATIONS AND PER SPECIFICATION SECTION IN THE PROJECT MANUAL.

GENERAL NOTES - BUILDING SECTIONS

- A. BUILDING SECTIONS INDICATE THE RELATIONSHIPS BETWEEN THE DIFFERENT ROOMS AND AREAS OF THE FACILITY. THE INTENT IS TO ILLUSTRATE THE CONCRETE FLOOR SLAB ON GRADE, FLOOR TO FLOOR HEIGHT, ROOF SLOPES, EXTENT OF REQUIRED STRUCTURAL FILL UNDERNEATH THE FOOTINGS, CONCRETE SLAB ON GRADE, ETC. REFER TO RELEVANT WALL SECTIONS FOR DETAILED DESCRIPTION OF WALL AND ROOF CONSTRUCTION.
- B. SEE CIVIL DRAWINGS FOR BUILDING FINISHED FLOOR ELEVATION AND HOW REFERENCE ELEVATION OF 100'-0" RELATES TO THE EXISTING CONTOUR LINES AND SPOT ELEVATIONS. SOIL CUT AND FILL REQUIREMENTS SHALL BE DETERMINED BASED ON THE SITE EXISTING CONTOUR LINES AND PROPOSED NEW CONTOUR LINES. SEE GEOTECHNICAL STUDY FOR SOIL COMPACTION AND EXTENT OF STRUCTURAL FILL REQUIREMENTS.

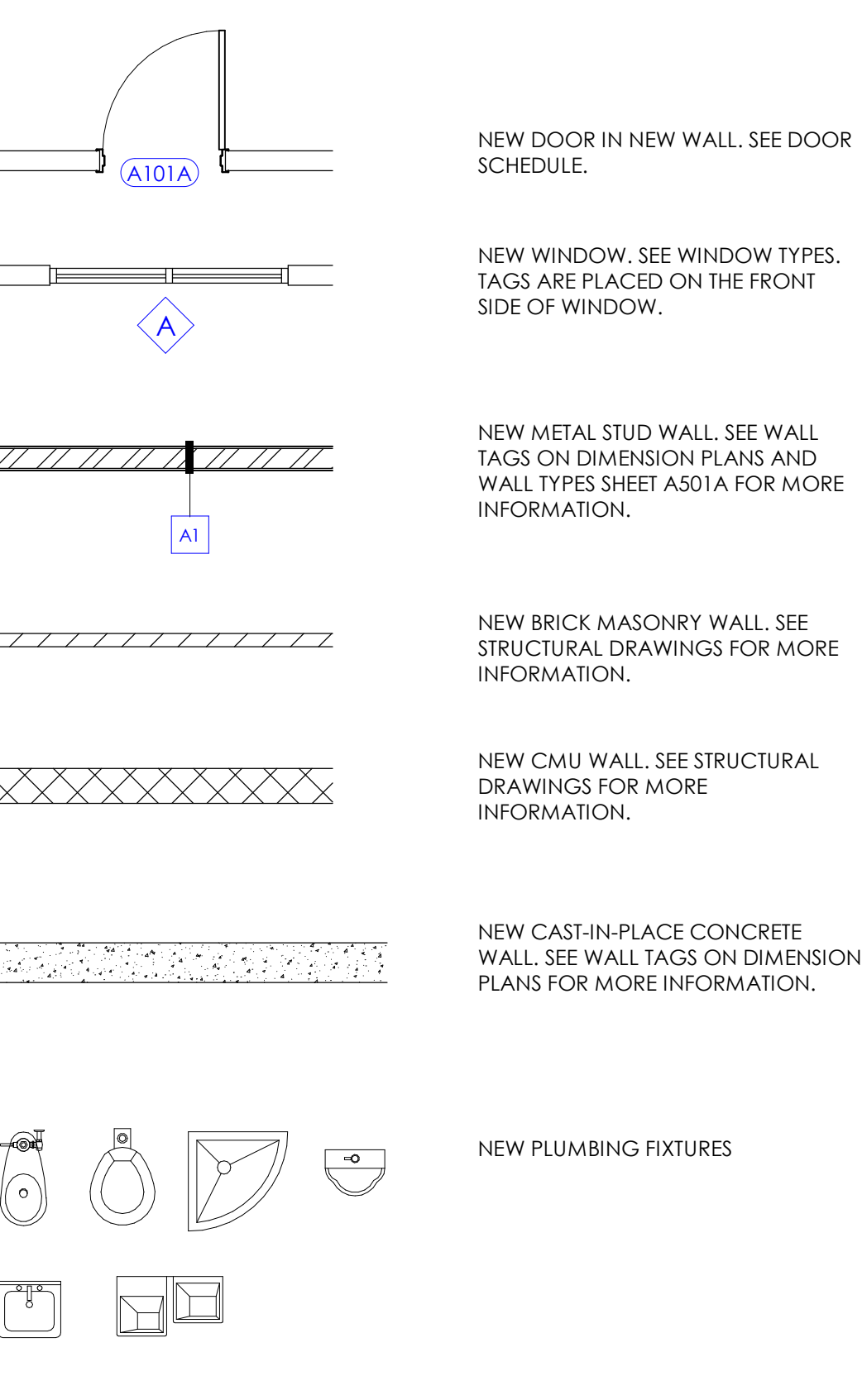
LEGEND - DEMOLITION FLOOR PLAN

BUILDING COMPONENTS (DOORS, WALLS, ETC.) INDICATED BELOW IN THIS LEGEND ARE DRAWN AT 1/4" = 1'-0" SCALE. COMPONENTS SHALL APPEAR HALF THE SIZE (SMALLER) ON PLANS DRAWN AT 1/8" = 1'-0" SCALE.



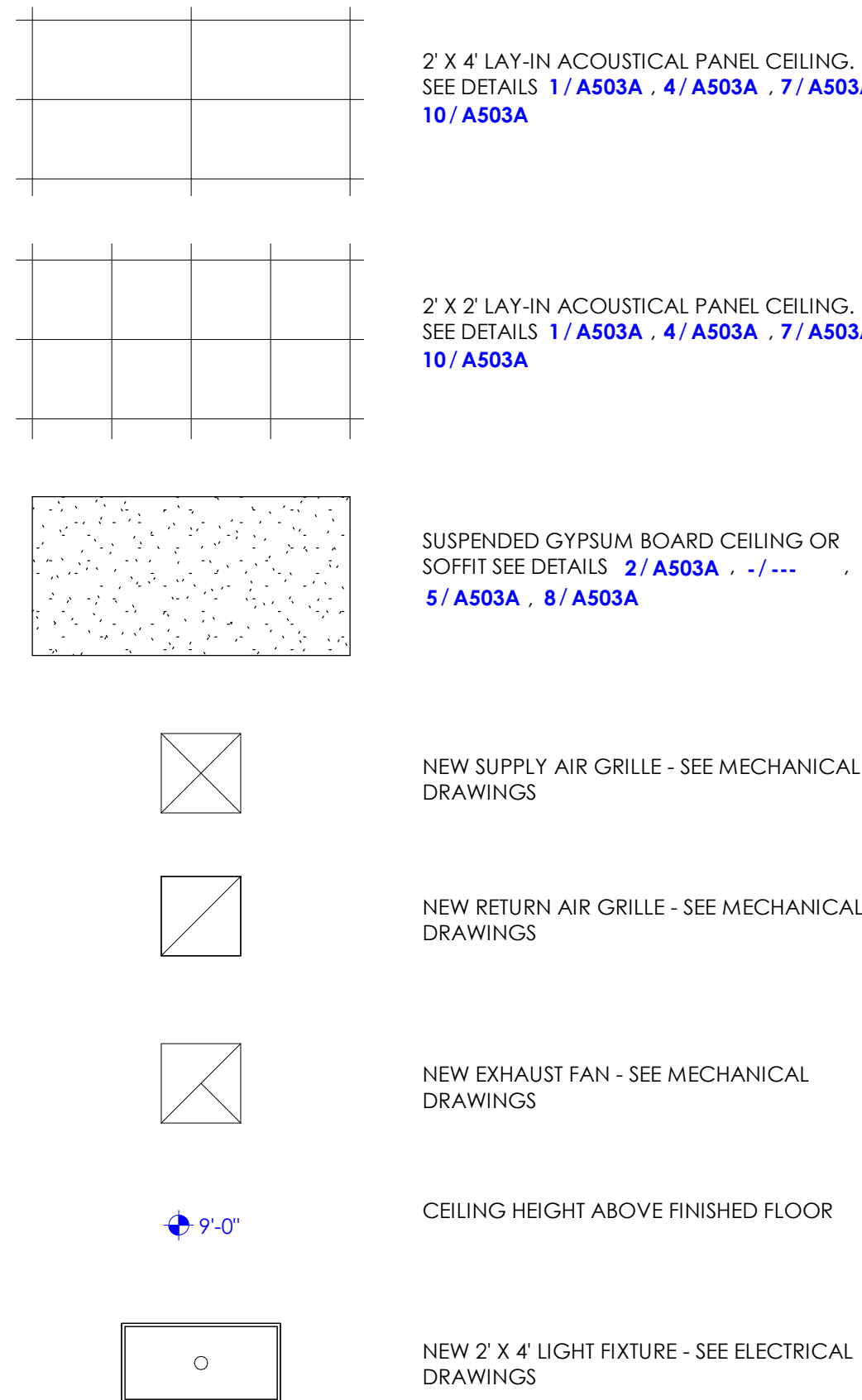
LEGEND - FLOOR & DIMENSION PLANS

BUILDING COMPONENTS (DOORS, WALLS, ETC.) INDICATED BELOW IN THIS LEGEND ARE DRAWN AT 1/4" = 1'-0" SCALE. COMPONENTS SHALL APPEAR HALF THE SIZE (SMALLER) ON PLANS DRAWN AT 1/8" = 1'-0" SCALE.



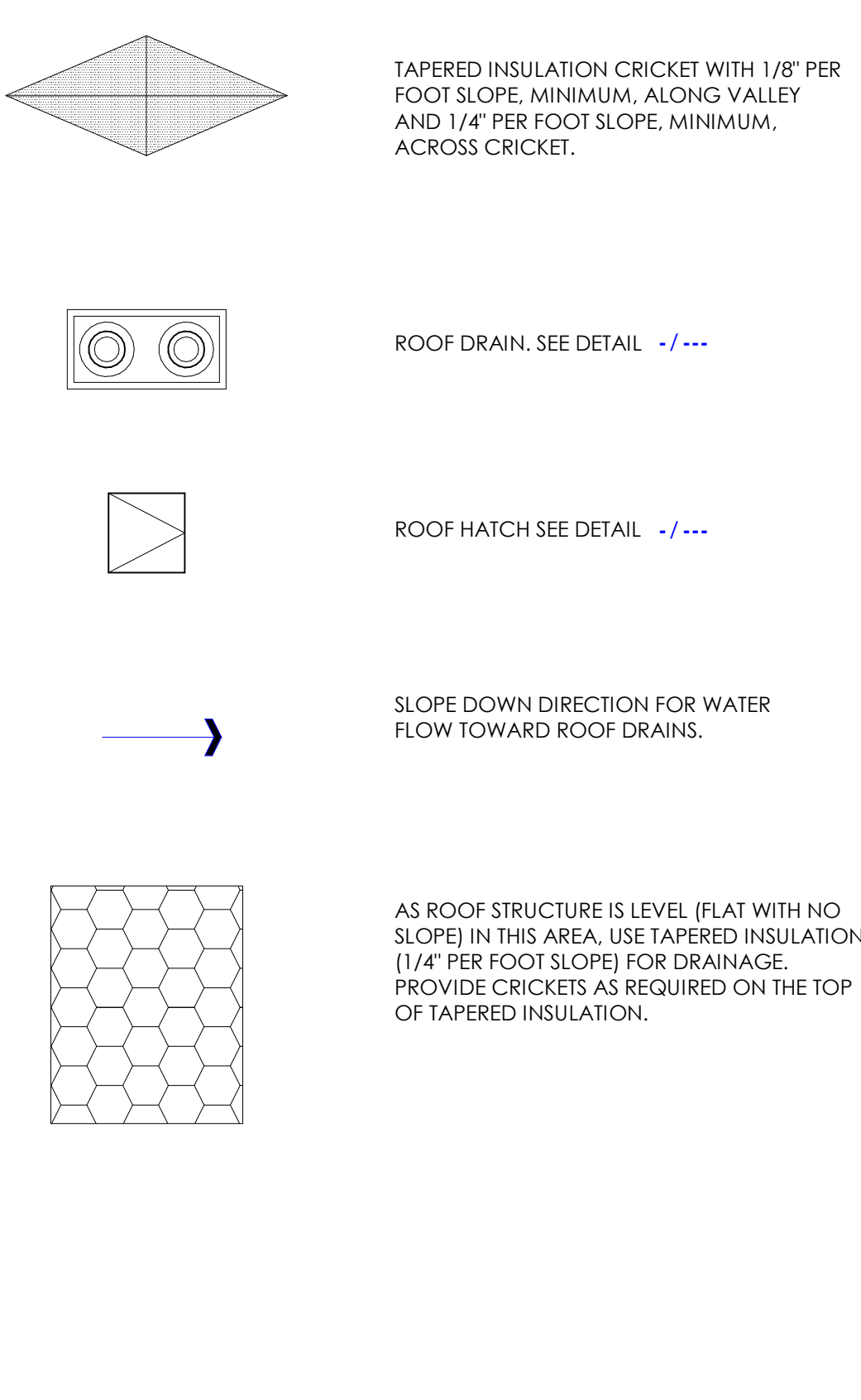
LEGEND - REFLECTED CEILING PLAN

BUILDING COMPONENTS (CEILING, LIGHT FIXTURES, ETC.) INDICATED BELOW IN THIS LEGEND ARE DRAWN AT 1/4" = 1'-0" SCALE. COMPONENTS SHALL APPEAR HALF THE SIZE (SMALLER) ON PLANS DRAWN AT 1/8" = 1'-0" SCALE.



LEGEND - ROOF PLAN

BUILDING COMPONENTS (ROOF DRAINS, HATCH, ETC.) ARE DRAWN AT 1/4" = 1'-0". ON PLANS DRAWN AT 1/8" = 1'-0" SCALE, COMPONENTS SHALL APPEAR HALF THIS SIZE.



GENERAL NOTES - FLOOR & DIM. PLANS

- A. REFER TO THE CODE COMPLIANCE PLANS FOR INDICATION OF FIRE RATED WALLS.
- B. AT LOCATIONS WITHOUT CEILINGS (ROOM IS OPEN TO STRUCTURE ABOVE), EXTEND ALL WALLS, SOFFITS, AND HEADERS (INCLUDING ALL STUD FRAMING, GYPSUM BOARD, INSULATION & CMU, WHERE APPLICABLE) TO THE METAL ROOF DECK ABOVE.
- C. WHEN FLOOR HEIGHT VARIES IN A ROOM, THE CEILING HEIGHT SHOWN IS THE HEIGHT ABOVE THE FLOOR AT THE ENTRY. UNO.
- D. SEE INTERIOR ELEVATIONS FOR TOILET AND BATHROOM ACCESSORIES (GRAB BARS, MIRRORS, DISPENSERS, ETC.).
- E. AT ALL VERTICAL EDGES OF INTERIOR CMU WALLS THAT ARE VISIBLE, USE BULLNOSE CMU BLOCKS FROM FINISHED FLOOR ELEVATION TO A HEIGHT OF 7'-4".
- F. FOR CLARITY SAKE, DIMENSIONS ARE NOT SHOWN AT THE FOLLOWING LOCATIONS:
 - a. WHERE THE FACE OF WALL COINCIDES WITH THE MAIN GRID LINE OR 4'-0" X 4'-0" SUBGRID.
 - b. WHERE THE CENTER OF WALL COINCIDES WITH THE MAIN GRID LINE OR 4'-0" X 4'-0" SUBGRID.
- G. VERIFY WITH ARCHITECT FOR DIMENSIONS NOT SHOWN.
- H. SEE STRUCTURAL DRAWINGS FOR CMU WALLS, MASONRY COLUMNS, AND MASONRY BEAMS. SEE BUILDING EXTERIOR ELEVATIONS FOR VENEER TYPES. SEE FINISH SCHEDULE FOR CMU THAT IS HONED, SCORED, SEALED, PAINTED, ETC.
- I. SEE CIVIL, FOOD SERVICE, PLUMBING, AND MECHANICAL DRAWINGS FOR FLOOR SINKS, FLOOR DRAINS, AND OPENINGS IN FLOOR SLABS AND ROOFS FOR DUCTWORK, ETC.
- J. SEE DOOR AND WINDOW SCHEDULE FOR THE REQUIRED DOOR AND WINDOW OPENING SIZES.
- K. SEE FINISH SCHEDULE AND STRUCTURAL DRAWINGS AND PROVIDE RECESS IN CONCRETE FLOOR SLAB AS REQUIRED TO ACCOMMODATE FLOOR FINISHES. CONCRETE FLOOR SLAB THAT IS ON GRADE, SHALL BE RECESSED AS REQUIRED, FOR A THICK SET MORTAR FOR CERAMIC TILE FINISH. SLOPE SHALL BE AT 1/8" PER FOOT TOWARDS THE FLOOR DRAIN. CONCRETE FLOOR SLAB, THAT IS NOT ON GRADE, NEED NOT BE RECESSED. IN SUCH LOCATION, USE THIN SET MORTAR FOR CERAMIC TILE FINISH WITH A GENTLE SLOPE TOWARDS DRAIN.
- L. ALL PENETRATIONS (PIPES, CONDUITS, JOISTS, ETC.) THROUGH FIRE RATED BARRIER WALLS SHALL BE SEALED COMPLETELY WITH FIRE RATED SEALANTS. FILL GAP BETWEEN FLUTES OF THE METAL DECK AND METAL TRACK TOP RUNNER WITH FIRE RATED SEALANTS. SEAL TIGHTLY AROUND PIPES, CONDUITS, DUCTS, ETC. THAT PENETRATES THE FIRE BARRIER WALL WITH FIRE RATED SEALANTS. APPLY SEALANT AS PER MANUFACTURER'S RECOMMENDATIONS WITH ANY ADDITIONAL MATERIAL AS REQUIRED INSTALLED AROUND PENETRATIONS TO MAINTAIN THE INTEGRITY OF THE FIRE WALL. SEE MECHANICAL DRAWINGS FOR FIRE AND SMOKE DAMPERS.
- M. WALL CABINETS HAVE A DEPTH OF 1'-3" UNLESS NOTED OTHERWISE.
- N. ALL MASONRY MORTAR JOINTS LOCATED INSIDE THE BUILDING SHALL BE TOOLED JOINTS, UNLESS NOTED OTHERWISE. MASONRY JOINTS ON THE BUILDING EXTERIOR SIDE SHALL BE RAKED JOINTS AS INDICATED IN BUILDING EXTERIOR ELEVATIONS.
- O. SEE OVERALL FLOOR PLAN SHEETS FOR ANGLES, PIVOT POINT AND DIMENSIONS BETWEEN GRID LINES.
- P. SEE CODE COMPLIANCE FLOOR PLANS FOR LOCATION OF FIRE BARRIER, NON RATED WALLS, ETC.
- Q. SEE ENLARGED FLOOR PLANS FOR ADDITIONAL DIMENSIONS.
- R. IN SOME PROJECTS, DUE TO THE LARGE BUILDING FOOTPRINT SIZE, FLOOR PLANS ARE SPLIT AS AREAS A, B, C, ETC. AND EACH AREA IS INDICATED ON SEPARATE SHEETS. MATCH LINES INDICATE THE BOUNDARIES OF EACH AREA. WHEN CONTRACTORS ARE PREPARING BID FOR THE PROJECT, COST SHALL INCLUDE ONLY THE BUILDING ELEMENTS AND ASSOCIATED CONSTRUCTION WORK CALLED OUT WITH KEYED NOTES IN THE AREA INDICATED ON THE SHEET. KEYED NOTES INDICATED OUTSIDE THE MATCH LINE IN ADJACENT FLOOR AREAS SHALL NOT BE COUNTED FOR THAT AREA. THIS AVOIDS DUPLICATION OF BUILDING ELEMENTS AND CONSTRUCTION WORK.

GENERAL NOTES - WALL SECTIONS

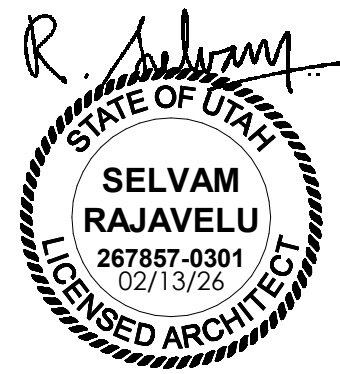
- A. ALL EXTERIOR WALL FINISHES ARE TO BE 6" ABOVE FINISH GRADE, TYPICAL.
- B. SEE WINDOW SCHEDULE FOR WINDOW OPENINGS AND SILL HEIGHT (UNLESS NOTED ON THE EXTERIOR ELEVATIONS). SEE DOOR SCHEDULE FOR DOOR OPENING SIZES.
- C. ALL FINISHES TO BE INSTALLED PER MANUFACTURER RECOMMENDATIONS AND PER SPECIFICATION SECTION IN THE PROJECT MANUAL.
- D. SEE FINISH FLOOR PLANS FOR AREAS WHERE HONED CMU BLOCKS ARE INDICATED. AT THESE AREAS, THE CONTRACTOR HAS THE OPTION OF USING REGULAR BLOCK IN CONCEALED AREAS AND CEILING SPACES THAT ARE NOT VISIBLE.
- E. SPACING BETWEEN STRUCTURAL MEMBERS SHALL FOLLOW INDICATIONS GIVEN ON STRUCTURAL PLANS (TYPICAL).
- F. FIRE PROTECTION ON ASSEMBLIES, ELEMENTS AND MEMBERS SHALL COMPLY WITH ALL THE CODE REQUIREMENTS, TYPICAL. REFER TO CODE COMPLIANCE PLANS.
- G. WOOD MATERIAL UNDER TYPE IIB CONSTRUCTION SHALL BE FIRE-RETARDANT, PRESSURE-TREATED, TYPICAL, U.N.O.
- H. ALL INTERIOR WALLS SHALL BE BUILT FOLLOWING WALL TYPE DETAILS, TYPICAL.
- I. IN ROOMS/AREAS WHERE HONED, SCORED OR COLORED CMU BLOCKS ARE INDICATED FOR WALLS IN THE FINISH SCHEDULE, CONTRACTOR HAS THE OPTION OF USING REGULAR (LESS EXPENSIVE NATURAL GRAY COLOR) BLOCKS IN CONCEALED AREAS AND CEILING SPACES THAT ARE NOT VISIBLE. THIS DOES NOT APPLY TO AREAS THAT CAN CHANGE OVER THE LIFE OF THE BUILDING SUCH AS WALL LOCATED BEHIND CABINETS, ARTWORK, WHITE BOARD, TACK BOARD, ETC. WHEN OTHER BLOCKS ARE SUBSTITUTED, THE STRUCTURAL INTEGRITY OF THE BLOCK SHALL REMAIN THE SAME AS BLOCK INDICATED IN STRUCTURAL DRAWINGS AND SPECIFICATION SECTION IN THE PROJECT MANUAL.
- J. AT INTERIOR MASONRY WALL OUTSIDE CORNERS, PROVIDE BULL NOSE BLOCK.
- K. CORE DRILLING WALLS AND SLABS: CONTRACTOR SHALL USE GROUND PENETRATING RADAR OR OTHER APPROVED METHOD TO SCAN CONCRETE OVER METAL DECK. CONCRETE SUSPENDED SLABS, MASONRY WALLS, AND CONCRETE WALLS TO LOCATE REBAR PRIOR TO CORE DRILLING ANY HOLES. HOLES SHALL BE LOCATED TO AVOID REBAR DETECTED. ALL OPENINGS AND GROUPS OF OPENINGS SHALL BE REINFORCED AS SHOWN ON THE STRUCTURAL DRAWINGS. OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER PRIOR TO DRILLING.

GENERAL NOTES - INTERIOR ELEVATIONS

- A. PROVIDE LOCKS FOR CABINETS AS INDICATED ON THE CABINET LEGEND ON SHEET A505A AND IF INDICATED ON INTERIOR ELEVATIONS.
- B. IN ROOMS WHERE CABINETS ARE REQUIRED TO BE LOCKED, PROVIDE LOCKS OPERABLE WITH SINGLE KEY.
- C. FOR TYPICAL MOUNTING HEIGHTS, SEE SHEET G003. FOLLOW THE HEIGHT UNLESS NOTED OTHERWISE IN INTERIOR ELEVATIONS. VERIFY WITH ARCHITECT FOR ITEMS NOT INDICATED.
- D. CONTRACTOR SHALL VERIFY WITH OWNER FOR OWNER FURNISHED CONTRACTOR INSTALLED ITEMS AND PROVIDE BACKING IN WALL AS REQUIRED FOR INSTALLATION.
- E. INTERIOR ELEVATIONS OF CERTAIN ROOMS ARE NOT DRAWN AND ARE NOTED AS SIMILAR ELEVATIONS OF ROOMS THAT ARE INDICATED IN THE DRAWINGS.
- F. CONTRACTOR SHALL PROVIDE FILLER PANELS (PLASTIC LAMINATE WRAPPED OVER 5/8" PARTICLE BOARD) WHEREVER GAP OCCURS BETWEEN CABINETS AND WALL.
- G. SEE FINISH FLOOR PLANS AND FINISH SCHEDULE A603A FOR WALL, CABINET AND COUNTERTOP FINISHES.
- H. SEE SHEET A605A FOR CABINET LEGEND (TYPES B1, W1, T1, ETC.). UNLESS NOTED OTHERWISE, ALL THE CABINETS AND COUNTERTOPS IN EACH ROOM SHALL BE OF THE SAME FINISH (PL1, PL2, SS1, ETC.) AS INDICATED ON THE INTERIOR ELEVATION OF EACH ROOM. WHERE MULTIPLE FINISHES ARE REQUIRED FOR CABINETS, WALLS, ETC. IN THE ROOM, EACH FINISH IS INDICATED SEPARATELY. CONTACT ARCHITECT FOR REQUIRED CLARIFICATIONS.
- I. COUNTERTOPS ARE TYPICALLY SUPPORTED BY WALLS AND BASE CABINETS. IN PLACES WHERE COUNTERTOP SPAN EXCEEDS 4'-0", STEEL SUPPORTS SHALL BE PROVIDED AS INDICATED IN DETAILS -/--- AND -/---.
- J. AS INDICATED ON INTERIOR ELEVATIONS, WALL CABINETS AT CERTAIN LOCATIONS MAY REQUIRE A VERTICAL OR A SLOPED FASCIA PANEL.
- K. AN ENLARGED FLOOR PLAN HAS BEEN INCLUDED ALONG WITH INTERIOR ELEVATIONS FOR ROOMS THAT ARE COMPLEX IN DESIGN. SUCH COMPLEX ROOMS ARE INDICATED ON THE A400 SERIES SHEETS (STARTING WITH SHEET A401). ENLARGED FLOOR PLANS ARE NOT SHOWN FOR ROOMS THAT ARE SIMPLE IN DESIGN. INTERIOR ELEVATIONS OF SUCH SIMPLE ROOMS ARE INDICATED ON THE A250 SERIES SHEETS (STARTING WITH SHEET A251).
- L. FOR ALL CABINETS PROVIDE BACKING IN WALL AS PER DETAIL 3/A505B.



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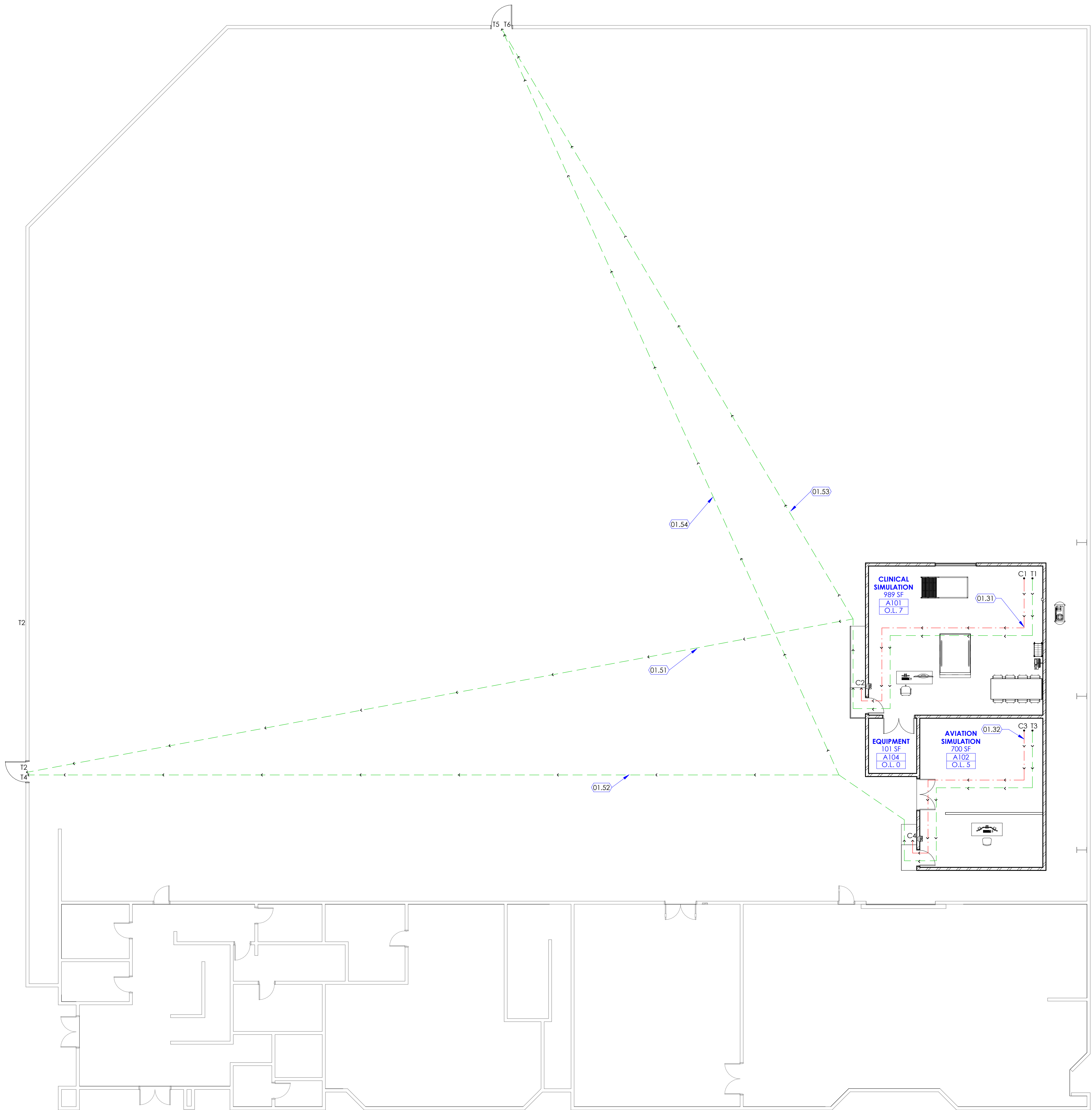
Intermountain Health
Intermountain Life Flight
Life Flight Simulator

NJRA Project # 25252.00
Bid Set Feb 13, 2025

General
Legend &
Notes

G005

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KEYED NOTES

- 01.31
- LINE AND ARROW INDICATES "COMMON PATH OF TRAVEL" DIRECTION AND DISTANCE OF 54'-0" BETWEEN POINTS C1 AND C2. THIS IS LESS THAN THE MAXIMUM ALLOWED DISTANCE OF 75'-0".
- 01.32
- LINE AND ARROW INDICATES "COMMON PATH OF TRAVEL" DIRECTION AND DISTANCE OF 48'-0" BETWEEN POINTS C3 AND C4. THIS IS LESS THAN THE MAXIMUM ALLOWED DISTANCE OF 75'-0".
- 01.51
- LINE AND ARROW INDICATES "TRAVEL DISTANCE" OF 241'-9" BETWEEN POINTS T1 AND T2. THIS IS LESS THAN THE MAXIMUM ALLOWED DISTANCE OF 250'-0".
- 01.52
- LINE AND ARROW INDICATES "TRAVEL DISTANCE" OF 238'-9" BETWEEN POINTS T3 AND T4. THIS IS LESS THAN THE MAXIMUM ALLOWED DISTANCE OF 250'-0".
- 01.53
- LINE AND ARROW INDICATES "TRAVEL DISTANCE" OF 211'-9" BETWEEN POINTS T1 AND T5. THIS IS LESS THAN THE MAXIMUM ALLOWED DISTANCE OF 250'-0".
- 01.54
- LINE AND ARROW INDICATES "TRAVEL DISTANCE" OF 233'-6" BETWEEN POINTS T3 AND T6. THIS IS LESS THAN THE MAXIMUM ALLOWED DISTANCE OF 250'-0".

CODE REVIEW

Applicable Codes

International Building Code (IBC)	2021
International Existing Building Code (IEBC)	2021
International Fire Code	2021
International Mechanical Code (IMC)	2021
International Plumbing Code (IPC)	2021
National Electric Code (NEC)	2023
NFPA 101 Life Safety Code	2018
ANSI ICC A117.1	2017
ADA Standard for Accessible Design	2010

Existing Hangar

THIS BUILDING WAS REVIEWED AND PERMITTED IN ITS ENTIRETY AT ITS ORIGINAL CONSTRUCTION. THIS PROJECT ONLY INVOLVES THE CONSTRUCTION OF TWO SIMULATION ROOM(S) WITHIN THE SPACE AND DOES NOT CHANGE OCCUPANT TYPES, LOADS OR ANY MEANS OF EGRESS. CODE CYCLE: 2021 I.B.C.

Actual Stories: 1 (Hangar)
Occupancy: S-1
Construction Type: Non Combustible
Fireproofing: Yes
Automatically Sprinkled: Yes

Allowable Area

For S-1 Occupancy & Type V-8 Const.: 9000 sq. ft. (Table 506.2)
Area increase due to frontage: N/A
Total allowable area per floor: 9000 sq. ft. (Table 506.2)

Project Remodel Area: 1,780 sq. ft.

Allowable Stories

For S-1 Occupancy & Type V-8 Const.: 1 story (Table 504.3)
Actual Stories: 1 above grade

Common path of egress travel in exit access areas.

For S-1 Occupancy- 75 feet (1006.3.4(2))

Exit access travel distance

For S-1 Occupancy- 250 feet (with sprinkler system) (Table 1017.2)

Corridor Width

For S-1 Occupancy - 44 inches (1020.3)

Construction Type : Type V-8

Fire resistance rating requirements for building elements (Table 601)

Structural frame - NA
Exterior Bearing walls - NA
Interior Non-Bearing walls- NA
Floor Construction - NA
Roof Construction - NA

Sprinkler System

Entire Building is fully equipped with automatic sprinkler system.

Occupant Load (Table 1004.1.1)

Occupancy Category - Group B (Business) - 150 net sf/person

Egress width calculation:

Required Door Width: 32 inches (Minimum clear width)
Provided Door Width: 36 inches

KEYED NOTE				
SYMBOL	DESCRIPTION	FIRE RESISTANCE RATING	DOOR FIRE RATING	WINDOW FIRE RATING
	COMMON PATH OF TRAVEL	N/A	N/A	N/A
	TRAVEL DISTANCE	N/A	N/A	N/A
ROOM NAME SQ. FT. ROOM # O.L. #	OCCUPANT LOAD	N/A	N/A	N/A
	SMOKE PARTITION WALL	0 HOUR	SMOKE	SMOKE
	SMOKE BARRIER WALL	1 HOUR	1/3 HOUR	1/3 HOUR
	1 HOUR FIRE RATED WALL	1 HOUR	3/4 HOUR	3/4 HOUR
	2 HOUR FIRE RATED WALL	2 HOUR	1-1/2 HOUR	1-1/2 HOUR

VIEW & PRINT THIS SHEET IN COLOR FOR CLARITY

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STATE OF UTAH

SELVAM
RAJAVELU
267857-0381
02/13/2025
LICENSED ARCHITECT

Intermountain Health
Intermountain Life Flight
Life Flight Simulator

NJRA Project # 25252.00
Bid Set Feb 13, 2025

Code
Compliance
Plan Level 1 -
Overall

G111

2284 1.40 N
Salt Lake City, UT 84116

1. Design Criteria

1.1. Governing Building Code	2021 International Building Code (IBC)
A. Risk Category	II
1.2. Floor Live Loading	
A. Floor Live Load	100 psf
1.3. Roof Loading	
A. Roof Live Load	40 psf
1.4. Earthquake	D
A. Seismic Design Category	
B. Spectral Response Accelerations:	
S _s = 1.541 g	S _{0.2} = 1.233 g
S ₁ = 0.549 g	S _{0.1} = 0.641 g
C. Site Class	D
D. Basic Seismic-Force-Resisting System	Light framed (cold-formed steel) walls sheathed with wood structural panels
R = 6.50	Q _s = 3.00
E. Importance Factor, I _e	1.0
F. Redundancy Factor, ρ	1.0
G. Analysis Procedure	Equivalent Lateral Force (Static)
H. Seismic Design Coefficient, C _s	0.190
I. Design Base Shear	9 kips

2. Concrete

- 2.1. Materials shall comply with the Standards specified in American Concrete Institute (ACI) 318-19, "Building Code Requirements for Structural Concrete".
- A. Concrete mix design requirements shall be as follows:
- | Location | F _c at 28 days (psi) | Max W/C Ratio | Air Content (%) | Max Aggregate Size | Exposure Classes* |
|----------|---------------------------------|---------------|-----------------|--------------------|-------------------|
| Footings | 4000 | 0.50 | - | 1" | F0 S0 C0 W1 |
- * Exposure Classes are per ACI 318, Section 19.3.1.1, where F, S, C and W are exposure categories for freezing and thawing, sulfate and corrosion protection of reinforcement, and contact with water, respectively.
- B. Cementitious Materials:
- Portland Cement (ASTM C150)
 - Type I or II for exposure class S0.
 - Fly Ash (ASTM C618, Class C, F, or N): maximum fly ash content as a percentage of total weight of cementitious materials shall be 25 percent.
- C. Aggregates:
- For concrete with exposure class W1, evidence shall be submitted that aggregates comply with the following:
 - Aggregates are not alkali-silica reactive or measures to mitigate alkali-silica reactivity have been established.
 - Aggregates are not alkali-carbonate reactive.
 - Concrete Density (Maximum Air-Dry Weight):
 - Normal weight concrete shall be approximately 145 to 155 pounds per cubic foot. Aggregate shall be ASTM C33.
- D. Steel Reinforcement:
- ASTM A615 Grade 60, f_y = 60,000 psi min. unless noted otherwise.
- F. Admixtures:
- Air-entraining admixtures, comply with ASTM C 260 (when used).
 - Tolerance on air content as delivered shall be +/- 1.5%.
 - When air content of a trowel finished floor slab exceeds 3%, there is an increased risk for delaminations and blistering to occur. When this situation is present, the Contractor shall pay special attention to the finishing procedures to help minimize such risks. Refer to ACI 302.1R-15 "Guide for Concrete Floor and Slab Construction" for proper finishing guidelines.
 - The use of water reducers and water reducers is allowed, but not required.
 - Calcium chloride or admixtures containing calcium chloride shall not be added to the concrete mix.
- G. Chloride Ion: Maximum water-soluble chloride ion concentrations in hardened concrete at age between 28 and 42 days contributed from the ingredients including water, aggregates, cementitious materials, and admixtures shall not exceed a maximum, by weight of cementitious materials, of 1.00% for concrete with exposure class C0.
- H. Shrinkage Limit: Interior slabs on grade shall have a drying shrinkage limit of 0.040% tested in accordance with ASTM C157. Drying shrinkage test results shall be submitted with mix designs.
- I. Only one grade or type of concrete shall be poured on the site at any given time.
- 2.2. Formwork shall comply with ACI Standards Publication 347 and the project specifications. The Contractor shall be responsible for the design, detailing, care, placement and removal of the formwork and shores.
- A. Pre-camber forms and screeds with a camber of ¼ inch per every 10 feet of span to compensate for dead load deflection, unless noted otherwise.
- 2.3. Concrete cure requirements for deformed bar reinforcing steel shall comply with ACI 318, "Building Code Requirements for Structural Concrete".
- A. Cast-in-place Concrete: Specified Cover
- | | |
|--|------|
| 1. Concrete not exposed to weather or in contact with ground | 3/4" |
| Slabs, Walls, Joists, #11 bars and smaller | |
- 2.4. Minimum Spacing of Reinforcement
- A. For parallel reinforcing bars in a horizontal layer, clear spacing between bars shall be at least the greatest of 1 inch, nominal diameter of the bars considered, and ¼ times the nominal maximum size of coarse aggregate in the concrete.
- B. If scheduled reinforcing cannot meet these provisions, notify the Engineer of Record.
- 2.5. Construction Joints and Control Joints
- A. All horizontal and vertical construction joints shall have a surface intentionally roughened to ¼ inch amplitude. A continuous 2x4 keyway may be used on elements other than shear walls.
- B. Provide reinforcement dowels to match the member reinforcement for each joint, unless noted otherwise. For dowels across construction joints and wall to footing connections of concrete shear walls, refer to specific project plans, schedules, and details.
- C. Slabs on grade shall have construction or control joints spaced not to exceed 30 times the slab thickness in any direction.
- D. Control joints shall be installed in slabs on grade so the length to width ratio of the slab is no more than 1.25:1. See typical details for joint configuration.
- E. All sawcut control joints shall be completed within 12 hours of concrete placement.
- 2.6. Detailing: All reinforcing shall be detailed, bolted & supported to comply with ACI 315, "Details and Detailing of Concrete Reinforcement" and the Concrete Reinforcing Steel Institute (CRSI) recommendations. Reinforcing bars shall not be welded unless specifically shown on drawings.
- A. All reinforcing shall be developed in compliance with the CONCRETE REINFORCING BAR DEVELOPMENT AND LAP SPICE SCHEDULE. As indicated in the drawings or upon approval of the Engineer of Record, standard tension hooks or headed bars described by the TENSION HOOK DEVELOPMENT SCHEDULE.
- B. All embedded elements and dowels shall be securely tied to formwork or to adjacent reinforcing prior to the placement of concrete.
- C. Use chairs or other support devices recommended by CRSI to support and tie reinforcement bars prior to placing concrete.
- D. Where required, reinforcement is to be terminated in a standard hook or headed bar anchor. Refer to the TENSION HOOK DEVELOPMENT SCHEDULE and the REINFORCEMENT END HOOK SCHEDULE as appropriate.
- E. Contractor shall coordinate placement of all openings, curbs, dowels, sleeves, conduits, bolts, inserts and other embedded items prior to concrete placement.
- F. All reinforcement shall be bent cold and shall be bent only once at the same location. All reinforcement shall be shop bent, unless otherwise permitted by the Engineer of Record.
- 2.7. No aluminum conduit or product containing aluminum or any other material injurious to concrete shall be embedded in concrete.
- 2.8. Unless otherwise noted, all slabs on grade shall be 4 inches thick.

3. Cold-Formed Steel

- 3.1. General Conditions
- A. The cold-formed steel framing drawings and details provide the general design intent and do not cover all conditions. The Contractor shall provide cold-formed framing as required to complete the wall section geometry as shown in the architectural drawings, including additional studs and connections as required to provide a complete installation. The Contractor shall provide engineering for conditions not specifically detailed in the construction drawings.
- 3.2. Material
- A. Studs:
- Base metal thickness of less than 54 mil: ASTM A1003 or A653, F_y = 33 ksi.
 - Base metal thickness of 54 mil or greater: ASTM A1003 or A653, F_y = 50 ksi.
- B. Track, Connection Clips, and Miscellaneous Shapes:
- Base metal thickness of less than 54 mil: A1003 or A653, F_y = 33 ksi.
 - Base metal thickness of 54 mil or greater: A1003 or A653, F_y = 50 ksi
- 3.3. Design, fabrication and construction shall comply with the following Codes and Standards from the American Iron and Steel Institute (AISI):
- A. AISI S100-16(2020) wS2-20: "North American Specification for the Design of Cold-Formed Steel Structural Members" 2016 Edition (Reaffirmed 2020), with Supplement 2, 2020 Edition
- B. AISI S202-20: "Code of Standard Practice for Cold-Formed Steel Framing," 2020
- C. AISI S202-20: "North American Standard for Cold-Formed Steel Nonstructural Framing," 2020
- D. AISI S240-20: "North American Standard for Cold-Formed Steel Structural Framing," 2020
- E. AISI S400-20: "North American Standard for Seismic Design of Cold-formed Steel Structural Systems," 2020
- 3.4. Cold-Formed Steel Framing
- A. All cold-formed steel (and/or) joist framing members along with all runner, bridging, and end track shall be of the designation shown on the plans, schedules, and details. The framing member designators used in the plans, schedules, and details follow the convention established by the Steel Stud Manufacturers' Association (SSMA) and the North American Steel Framing Alliance (NASFA). Framing members provided shall comply with the designations according to this convention. See Steel Stud Manufacturers Association- Nomenclature for an explanation of the stud or track designations.
- B. All components shall be galvanized.
- C. Where not noted in the drawings, all framing members shall have a base metal thickness of 33 mil or greater.
- D. All jamb, header, and sill components shall be continuous without splices unless noted otherwise. Jamb's shall extend continuous from floor to floor, roof, or wind girt.
- E. Web punchouts in header stud or joist members shall not be located within 12 inches of the support.
- F. Fasteners for steel stud construction shall be self-drilling and self-tapping meeting ASTM C1513. Screw-type fasteners shall penetrate the joined materials with a minimum of three threads exposed. Furnish, install, and tighten screws per the manufacturer's recommendations and per the sizes indicated in the details. The minimum screw-type fastener size shall be #10 for any connection, unless noted otherwise, or the manufacturers' minimum recommended size for framing clips and bridging. Screws shall have a center-to-center spacing of at least 3 times the nominal diameter of the screw unless noted otherwise. Screws shall have center-to-center to edge-of-steel dimensions of at least 1.5 times the nominal diameter of the screw unless noted otherwise.

- G. See the Typical Steel Stud Wall Bridging Detail for wall stud bridging requirements. Proprietary bridging systems may be used upon submission for review, and approval by the Architect/Engineer. Cold-rolled channel (or steel angle) bridging shall not be used without suitable full-depth angle clips fastened to the studs and channel or angle to prevent stud roll-over.
- H. Connection clips as specified in the schedules and details use The Steel Network (TSN) products as the basis of design. Other manufacturer's connection clips must be submitted for review and approved by the Architect/Engineer prior to use and shall clearly indicate all ICC/APHKO code reports, load capacities and engineering associated with their use. Follow all manufacturers' requirements for the use of these products. Follow required screw patterns as required by the manufacturer based on the number of screws indicated. Web punchouts shall not be located within 6 inches of connection clips.
- I. Proprietary headers, jamb studs, and other miscellaneous framing may be substituted for framing as shown in the STEEL STUD FRAMING SCHEDULE but must be submitted to the Engineer of Record & reviewed prior to ordering material or fabricating & installing such components. Submittals for substitution of such components must clearly state what is being substituted and show equivalence to the components being replaced.
- J. Wall studs must seat fully in top and bottom wall track with 1/8" maximum gap between the stud and the track.

- 3.5. Welding:
- A. The steel stud contractor shall contact the Quality Assurance Agency prior to beginning any welds. A program of joint preparation and welding procedures should be worked out between the two parties before the welding is started so that correct welds will be made from the beginning.
- B. Certification of Welders: All shop and field welding shall be executed by AWS certified welders who have been specifically certified for the process of welding being performed. The welder's certification will be considered as being current unless the welder is not engaged in the process of welding being performed for a period exceeding six months or there is a specific reason to question a welder's ability as required by AWS. Certification and records must comply with AWS Standards. Certification and appropriate records must be provided to the Architect prior to beginning work.
- C. Unless noted otherwise, all welded connections shall be done using ¼ inch AWS type 6013 or 7014 rod with a welding heat of 60-110 amperes depending on the gauge of material and the fit of the parts. Wire tying of framing components shall not be permitted. Welds and damaged coatings on studs shall be repaired with zinc galvanizing repair paint.
- 3.6. The contractor shall submit shop drawings with complete elevations and details defining framing member sizes, locations, and connection details for review. Shop drawings shall be submitted prior to fabrication.

- 3.7. Submittals with Prefabricated Systems or systems intended to replace conventional framing herein shall have complete shop drawings and calculations of all elements for review and bear the stamp of a Professional Engineer licensed in the State of the Project.

4. Wood

- 4.1. Fabrication and construction shall comply with the following Codes and Standards:
- A. American Wood Council National Design Specification for Wood Construction 2018 Edition and Supplement (NDS and NDS Supplement)
- B. American Wood Council Special Design Provisions for Wind and Seismic 2021 Edition (SDPWS)
- 4.2. Materials
- A. Wood Sheathing Panels: All sheathing panels shall be rated by the American Plywood Association (APA). Panels shall bear the stamp of an approved grading agency. Panels shall be grade DOC PS 1 or PS 2 with exterior glue with the following panel span rating or better, unless noted otherwise:
- | Area to be sheathed | Span Rating | Minimum Thickness |
|---------------------|------------------|-------------------|
| Roofs | 40/20 | 19/32" |
| Floors | 24 o.c. or 48/24 | 1-1/8" T&G |
| Walls | 24/0 | 19/32" |
- B. Nails as referenced in these documents shall meet the tolerances in ASTM F1667 and have the following properties or better, unless noted otherwise:
- | Nail Size | Length | Minimum Penetration | Common | | Galvanized Box | |
|-----------|--------|---------------------|----------------|------------------------------------|----------------|------------------------------------|
| | | | Shank Diameter | Dowel Bending Yield Strength (psi) | Shank Diameter | Dowel Bending Yield Strength (psi) |
| 6d | 2" | 1.1/8" | 0.113" | 100,000 | 0.099" | 100,000 |
| 8d | 2 1/2" | 1.3/8" | 0.131" | 100,000 | 0.113" | 100,000 |
| 10d | 3" | 1 1/2" | 0.148" | 90,000 | 0.128" | 100,000 |
| 16d | 3 1/2" | 1.5/8" | 0.167" | 90,000 | 0.135" | 100,000 |
| 20d | 4" | 2" | 0.192" | 80,000 | 0.148" | 90,000 |
- C. Nails as referenced in these documents shall meet the tolerances in ASTM F1667 and have the following properties or better, unless noted otherwise:
- When used to attach sheathing panels, nails shall be common or galvanized box type nails. All other nails shall be common type nails.
- D. Fasteners referenced in these documents shall comply with the International Building Code and shall meet the requirements of the National Design Specification (NDS) for Wood Construction, unless noted otherwise. The screws used for wood framing and sheathing fastening shall be carbon steel or alloy steel wood screws or structural screws, corrosion protected as required by exposure conditions, and shall be approved per ICC-ES Evaluation Report. Screws shall be designed and installed to provide equal or greater shear and withdrawal capacity than the nails specified in IBC Table 2304.10.2 (Fastening Schedule).
- Drywall screws shall not be permitted.
- E. When used to attach sheathing panels, screws shall be coarse-thread wood screws or proprietary structural screws approved for wood structural panel fastening.
- All screws shall be installed in accordance with the manufacturer's published installation instructions and applicable ICC-ES Evaluation Report.

- 4.3. Special Treatments
- A. Fire-Retardant-Treated Wood:
- Fire retardant-treated wood shall meet requirements in IBC Section 2303.2. Fire-retardant-treated wood shall be treated to meet a flame spread index of 25 or less and show no evidence of significant progressive combustion when the test is continued for 20 minutes per ASTM E 84 or UL 723.
 - Treatment methods for fire-retardant-treated wood shall be permanent protection to all surfaces.
 - All fire retardant treated wood products shall be labeled per the requirements of section 2303.2.4 of the IBC.
 - Strength adjustment factors resulting from fire retardant treatment shall be determined based on the requirements of IBC sections 2303.2.5 and all subsections thereof. Strength adjustment factors for the preservative treatments used shall be submitted to the Engineer of Record for review prior to procurement of materials.
 - Moisture content of fire retardant treated wood shall be 19% or less for lumber and 15% or less for structural panels prior to use.
- B. Fasteners, including nuts and washers, in contact with treated wood shall meet the following criteria as per IBC Section 2304.10.6:
- Fasteners in contact with fire-retardant-treated wood shall be hot-dipped galvanized steel, stainless steel, silicon bronze or copper. Fasteners other than nails, wood screws, timber rivets, and lag screws may be mechanically-deposited zinc-coated steel with coatings meeting ASTM B 695, Class 55 minimum.
- 4.4. Cold-Formed Steel Framing and Carpentry
- A. General
- Cold-formed steel framing shall be designed and constructed in accordance with the International Building Code and AISI S100 and AISI S240, unless noted otherwise.
- B. Fasteners
- Fasteners for cold-formed steel framing, including framing connections and attachment of sheathing, shall be self-drilling or self-tapping screws manufactured from carbon steel and coated for corrosion protection as required by exposure conditions.
- Fasteners shall comply with ASTM C1513, ASTM C1002, as applicable, and shall be installed in accordance with the manufacturer's published installation instructions.
- Drywall screws shall not be permitted for structural cold-formed steel connections unless specifically approved by the Engineer of Record.
- C. Sheathing Attachment
- Attachment of sheathing to cold-formed steel framing shall comply with AISI S240 and the approved construction documents. Screw size, spacing, and edge distances shall be as shown on the drawings or as required by the applicable evaluation report or standard.
- D. Blocking and Bridging
- Provide blocking, bridging, and bracing for cold-formed steel members as required by AISI S240 and the approved construction documents. Blocking shall be installed to maintain member alignment and load transfer.
- E. Openings and Framing Reinforcement
- Framing of openings, headers, jamba, and sills shall be reinforced as shown on the drawings and in accordance with AISI S240.
- 4.5. Cold-Formed Steel Framing Connections
- A. General
- Cold-formed steel framing connections shall be designed and constructed in accordance with AISI S100 and AISI S240, unless noted otherwise.
- B. Screw Fasteners
- Screws used for cold-formed steel framing connections shall be self-drilling or self-tapping screws sized and installed to achieve the required approval capacities. Screws shall be installed in accordance with manufacturer requirements.
- C. Proprietary Connections
- Proprietary connections used in cold-formed steel framing systems shall be installed in accordance with the connector manufacturer's published instructions and applicable evaluation reports.
- D. Capacity Requirements
- Framing connections shall be designed to resist the required axial, shear, and uplift forces. Where connection capacities are not explicitly shown on the drawings, the Contractor shall submit product data demonstrating compliance.
- E. Installation
- Install all cold-formed steel framing connections in accordance with approved shop drawings and manufacturer instructions. Fasteners shall be fully seated without damaging protective coatings.

5. Miscellaneous

- 5.1. Post-Installed Anchors in Concrete
- A. Anchorage to hardened concrete shall include all mechanical and adhesive anchors and epoxy doweled reinforcing bars of size, quantity, spacing, and embedment as shown on the drawings. Additional anchors shall not be used without approval from the Engineer of Record prior to installation.
- B. Special inspection is required during the installation of all post-installed anchors. Refer to applicable code evaluation reports and the Quality Assurance and Statement of Special Inspections sections of the General Structural Notes.
- C. Anchorage to Concrete:
- All post-installed anchors into hardened concrete shall be selected from the following pre-approved products, unless noted otherwise:
- | Steel Screw Anchor | Evaluation Report |
|---------------------|-------------------|
| Hilti Kwik HUS-EZ | ICC ESR-4286 |
| DeWalt Screw-Bolt+ | ICC ESR-3027 |
| Simpson Strong-Bolt | ICC ESR-3889 |
| | ICC ESR-2713 |
- | Steel Expansion/Wedge Anchor | Evaluation Report |
|------------------------------|-------------------|
| Hilti Kwik Bolt T22 | ICC ESR-4286 |
| DeWalt Power-Stud+ SD2 | ICC ESR-2502 |
| Simpson Strong-Bolt 2 | ICC ESR-3037 |
- | Adhesive Anchor System | Evaluation Report |
|------------------------|-------------------|
| Hilti HIT-HI 200 | ICC ESR-4868 |
| Hilti Kwik-X | ICC ESR-5045 |
| Hilti HIT-RE 500 V3 | ICC ESR-3814 |
| DeWalt AC208+ | ICC ESR-4027 |
| DeWalt Pure 110+ | ICC ESR-3238 |
| Simpson SET-3G | ICC ESR-4057 |

2. Adhesive anchors shall be installed into concrete having a minimum age of 21 days. For installations sooner than 21

- D. Alternate anchors or adhesives are permitted with approval of the Engineer of Record. The Contractor shall submit the proposed anchor product data and code evaluation report demonstrating the anchor is equivalent to or exceeds the capacity of the specified anchor.
- E. Installation of adhesive anchors horizontally or upwardly inclined to support 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 ACI/CRSI Adhesive Anchor Installer Certification program, or equivalent. Proof of current certification shall be submitted to the Engineer of Record for approval prior to commencement of installation.
- F. Anchors shall be installed according to the Manufacturer's Printed Installation Instructions and applicable code evaluation reports including:
- Hole diameter, depth, and cleaning procedure
 - Adhesive mixing, preparation, and placement
 - Installation torque
- G. Locate all existing reinforcement and embedded items prior to drilling into concrete or masonry elements. Do not damage rebar or embeds while drilling or installing anchors.
- H. Grout all defective or abandoned holes with non-shrink grout or an injectable epoxy adhesive matching the surrounding concrete compressive strength. Consult the Architect for additional requirements at architecturally exposed concrete.
- I. Carbon steel anchors are limited to use in dry, interior locations.
- J. Holes for post-installed anchors may not be core drilled unless specifically allowed by the manufacturer's installation instructions and the code evaluation report. Holes shall not be re-used unless approved by the manufacturer.

6. Special Instructions

- 6.1. The project specifications are not superseded by the General Structural Notes but are intended to be complementary to them. Consult the specifications for additional requirements in each section. Notes and specific details on the drawings shall take precedence over General Structural Notes and typical details.
- 6.2. The architectural drawings are the prime contract drawings. Consultant drawings by other disciplines are supplementary to the architectural drawings, including dimensions, between the various disciplines, between the disciplines and the contract drawings and/or specifications shall be brought to the attention of the Architect before proceeding with any work involved. In case of conflict, follow the most stringent requirement as directed by the Architect without additional cost to the Owner. Any work done by the Contractor after discovery of such discrepancy shall be done at the Contractor's risk.
- 6.3. The structural drawings shall be used in conjunction with the architectural drawings. Primary structural elements and overall structural layout are indicated within the structural plans and details. Some secondary elements, architectural layouts, alcoves, elevations, slopes, depressions, curbs, mechanical equipment and electrical equipment, are not indicated within the structural drawings. Detailing and shop drawing production for structural elements will require information (including dimensions) contained in the architectural, structural and/or other consultants' drawings.
- 6.4. Shoring and Bracing Requirements
- A. Floor and Roof Structures – The General Contractor is responsible for the method and sequence of all structural erection. The Contractor shall provide temporary shoring and bracing as the method of erection requires to provide adequate vertical and lateral support. Shoring and bracing shall remain in place as the chosen method requires until all permanent members are in place and all final connections are completed, including all roof and floor attachments. The building shall not be considered stable until all connections are complete.
- B. Walls above grade shall be braced until the structural system is complete. Walls shall not be considered to be self-supporting.
- 6.5. Submittals: A copy of all shop drawings that have been submitted for review must be kept at the construction site for reference. These drawings must bear the appropriate review stamps. The shop drawing review shall not relieve the Contractor of the responsibility of completing the project according to the contract documents. The General Contractor shall review and mark all shop drawings prior to submitting them to the Architect for review. Shop drawings made from reproductions of (these) contract drawings will be rejected.
- 6.6. Project Coordination: It shall be the responsibility of the General Contractor to coordinate with all trades any and all items that are to be integrated into the structural system. Openings or penetrations through, or attachments to the structural system that are not indicated on these drawings shall be the responsibility of the General Contractor and shall be coordinated with the Architect/Engineers. The order of construction is the responsibility of the General Contractor. It is the Contractor's obligation to provide all items necessary for the chosen procedure.
- 6.7. Contractor shall field verify all dimensions, and conditions. If the contract drawings do not represent actual conditions, Contractor shall notify Architect/Engineer prior to fabrication or construction within that area.
- 6.8. Notice of Copyright: The structural drawings, plans, schedules, notes and details are hereby copyrighted by Reaveley Engineers. Submission or distribution of documents to meet official regulatory requirements or for similar purposes in connection with the project is not to be construed as publication in derogation of Reaveley Engineers' reserved rights. The documents defining the structure are instruments of service prepared by Reaveley Engineers for one use only. Furthermore, these documents shall not be reproduced, or copied, in whole or in part by the Contractor or subcontractors for preparation of shop drawings or other submittals.

7. Quality Assurance

- 7.1. Quality Assurance Agency Requirements
- A. The Owner shall engage a qualified Quality Assurance Agency (QAA) to provide all special inspection and quality assurance testing for the project. The QAA shall provide all information necessary for the building official to determine that the agency meets the applicable requirements.
- The QAA shall be objective, competent and independent from the Contractor responsible for the work being inspected. The agency shall disclose to the building official and the registered design professional in responsible charge possible conflicts of interest so that objectivity can be confirmed.
 - The QAA shall have adequate equipment to perform required tests. The equipment shall be periodically calibrated.
 - The QAA shall employ experienced personnel educated in conducting, supervising and evaluating tests and special inspections. Experience or training shall be considered relevant where the documented experience or training is related in complexity to the same type of special inspection or testing activities for projects of similar complexity and material qualities.
 - The QAA shall send copies of all inspection and testing reports to the building official, Owner, Architect, Engineer of Record and Contractor. Reports shall indicate that the work inspected was or was not completed in conformance to the approved construction documents. Discrepancies shall be brought to the immediate attention of the Contractor for correction. If they are not corrected, the discrepancies shall be brought to the attention of the Architect and Engineer of Record.
 - The QAA shall submit a final report documenting required special inspections and tests, and correction of any discrepancies noted in the inspections or tests. The final report shall be distributed to the building official, Owner, Architect and Engineer of Record in a timely manner prior to the completion of the project.
- 7.2. Contractor Responsibilities
- A. The Contractor shall submit a written statement of responsibility to the building official and the Owner or the owner's authorized agent prior to commencing any work on the systems or components listed in the statement of special inspections. The Contractor's statement of responsibility shall contain acknowledgement or awareness of the special requirements contained in the statement of special inspections.
- B. Notification of QAA: The Contractor shall notify the QAA in a timely manner so that inspection and testing may be performed as outlined in the statement of special inspections.
- 7.3. Structural Observations by the Engineer of Record
- A. The Engineer of Record will perform structural observations at critical phases of the project as listed below. Observations will be made on a periodic basis throughout the construction of the structural system. Copies of the observation report will be distributed to the Architect, Contractor, Owner, and QAA.
- B. The contractor shall notify the Engineer of Record at least 48 hours in advance for any of the following actions.
- Placing concrete in mat footing.
 - Completing the fastening of any
- C. Observation visits to the site by the Engineer of Record or the Engineer's field representatives shall not be construed as inspection or approval of construction.

8. Statement of Special Inspections

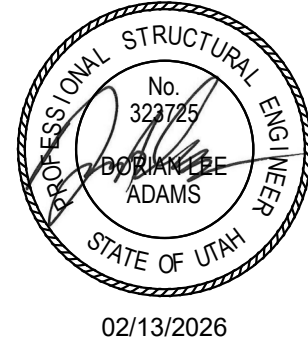
- 8.1. The following materials, systems and components require special inspection or testing per Chapter 17 of the International Building Code (IBC).
- 8.2. For items requiring continuous inspection, a special inspector must be present onsite during the performance of that task. In most cases, periodic inspections/tests shall be performed prior to commencing the task, intermittently during the task, and at the completion of the task. Frequency marked with (E) designates periodic inspections that must be performed prior to or upon completion of every task and for each member, welded joint, and bolted connection.
- 8.3. Special inspections during fabrication are not required where the work is done on the premises of a fabricator approved by the authority having jurisdiction to perform such work without special inspection. At the Owner's discretion, periodic inspection, testing, or auditing of the fabricator's quality control processes may be performed by the Owner's quality assurance agency. At completion of fabrication, the fabricator shall submit a certificate of compliance for submittal to the building official, as specified in Section 1704.5, stating that the work was performed in accordance with the approved construction documents.

Concrete Construction per IBC Sections 1705.3 & 1705.12		
Item	Frequency	Detailed Instructions
Reinforcing steel	Periodic	Verify prior to placing concrete that reinforcing is of specified type, grade and size; that it is free of ice, mud, oil, or other deleterious coatings that decrease bond; that it is located and spaced properly; that hooks, bends, ties, stirrups and supplemental reinforcement are placed correctly; that lap lengths, stagger and offsets are provided; that all mechanical connections are installed per the manufacturer's instructions and/or evaluation report, and that minimum clear spacing requirements between bars and lap splices are in accordance with the Detailing provisions of the General Structural Notes.
Cast-in bolts & embeds	Periodic	Inspection of anchors or embeds cast in concrete.
Post-installed adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads	Continuous	All post-installed anchors/dowels shall be specially inspected as required by the approved ICC-ES report. Horizontally or upwardly inclined anchors that resist sustained tension loads require qualified installers.
Post-installed mechanical anchors	Periodic	Post-installed anchors shall be specially inspected as required by the approved ICC-ES report.
Use of required mix design	Periodic	Verify that all mixes used comply with the approved construction documents: ACI 318: Ch. 19, 26.4.3-26.4.4; and IBC, 1904.1, 1904.2
Concrete sampling for strength tests, slump, air content, and temperature	Continuous	Samples for strength tests shall be taken in accordance with ASTM C172, cured per ASTM C31 and tested in accordance with ASTM C39 by a testing agency complying with ASTM C1077. Acceptance criteria for strength tests shall be per ACI 318 Section 26.12.3. For each mix placed, samples shall be taken not less than once a day, nor less than once for each 150 yd ³ of concrete, nor less than once for each 5000 ft ² of surface area for slabs or walls. At the time fresh concrete is sampled to fabricate specimens for strength tests, perform slump and air content tests and determine the temperature of the concrete.
Concrete placement	Continuous	
Curing temperature and techniques	Periodic	Verify that the ambient temperature for concrete is kept at + 50° F for at least 7 days after placement. High-early-strength concrete shall be kept at + 50° F for at least 3 days. Accelerated curing methods may be used (see ACI 318: 26.5.3). All concrete materials, reinforcement, forms, fillers, and ground shall be free from frost. In hot weather conditions ensure that appropriate measures are taken to avoid plastic shrinkage cracking and that the specified water/cement ratio is not exceeded.
In-situ strength verification	Periodic	Verify that adequate strength has been achieved prior to the removal of shores and forms.
Formwork	Periodic	Verify that the forms are placed plumb and conform to the dimensions and tolerances of the members as required by the approved construction documents.
Cold-Formed Steel Light-Frame Construction per IBC Sections 1705.2.4, 1705.11.2 & 1705.12.3, and 1705.12.9		
Item	Frequency	Detailed Instructions
Wind-Force-Resisting Systems (WFERS)	Periodic	Periodic inspections of welding operations. If fastener spacing is less than 4 inches on center, verify that proper screw attachment, bolting, anchoring and other fastening of shear walls, diaphragms, drag struts, braces, shear panels and holdowns has occurred. Performed by code inspection firm. Periodic inspections of welding operations.
Seismic-Force-Resisting Systems (SFRS) of structures assigned to Seismic Design Category C, D, E, or F	Periodic	If the sheathing is structural panel or steel sheets on both sides of the SFRS assembly or if the fastener spacing is less than 4 inches on center, on one or both sides of the SFRS assembly. Verify that proper screw attachment, bolting, anchoring and other fastening of shear walls, shear panels, braced, diaphragms, drag struts, and hold-downs has occurred.

STRUCTURAL DRAWING LIST	
SHT NO.	SHT NAME
SE001	GENERAL STRUCTURAL NOTES
SE002	LEGENDS & ABBREVIATIONS
SF-101	FLOOR AND ROOF FRAMING PLANS
SF-102	STRUCTURAL FRAMING ELEVATIONS
SW501	TYPICAL COLD-FORMED STEEL STUD DETAILS
SW502	STEEL STUD DETAILS
SW503	STEEL STUD ROOF DETAILS
SW601	STEEL STUD WALL AND WOOD SCHEDULES AND DETAILS



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Intermountain Health
Intermountain Life Flight
Life Flight Simulator

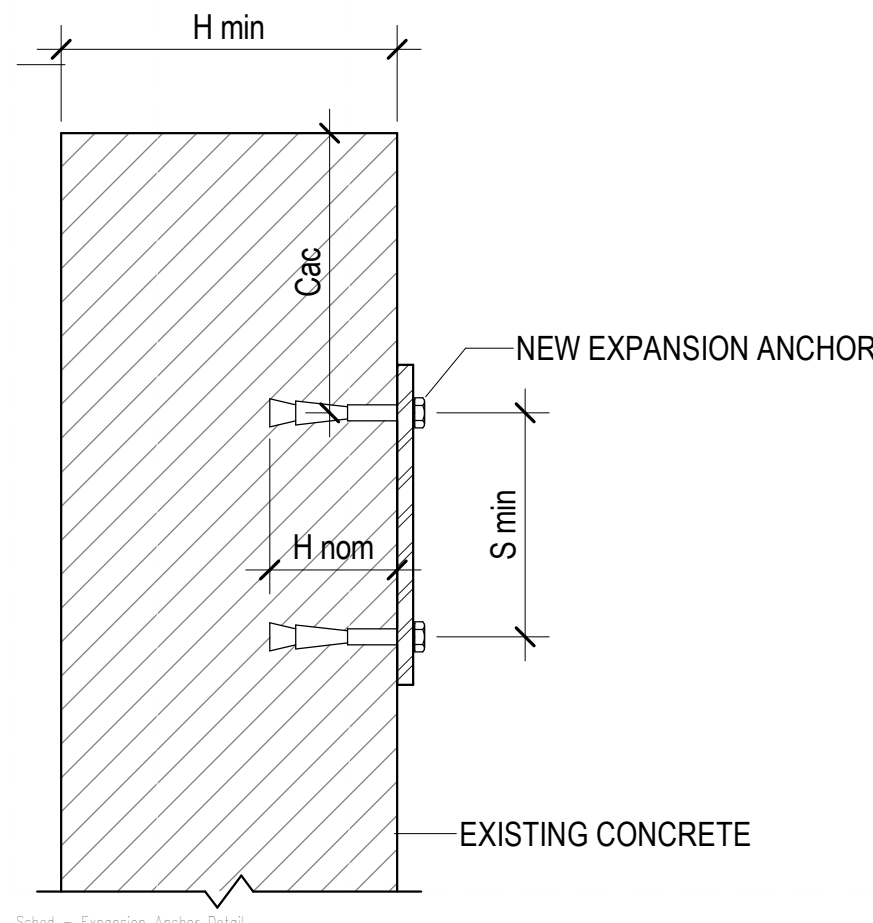
2284 E 140 N
Salt Lake City, UT 84115

NJRA Project # 25232.00
BID SET FEB 13, 2026

GENERAL
STRUCTURAL
NOTES

SE001

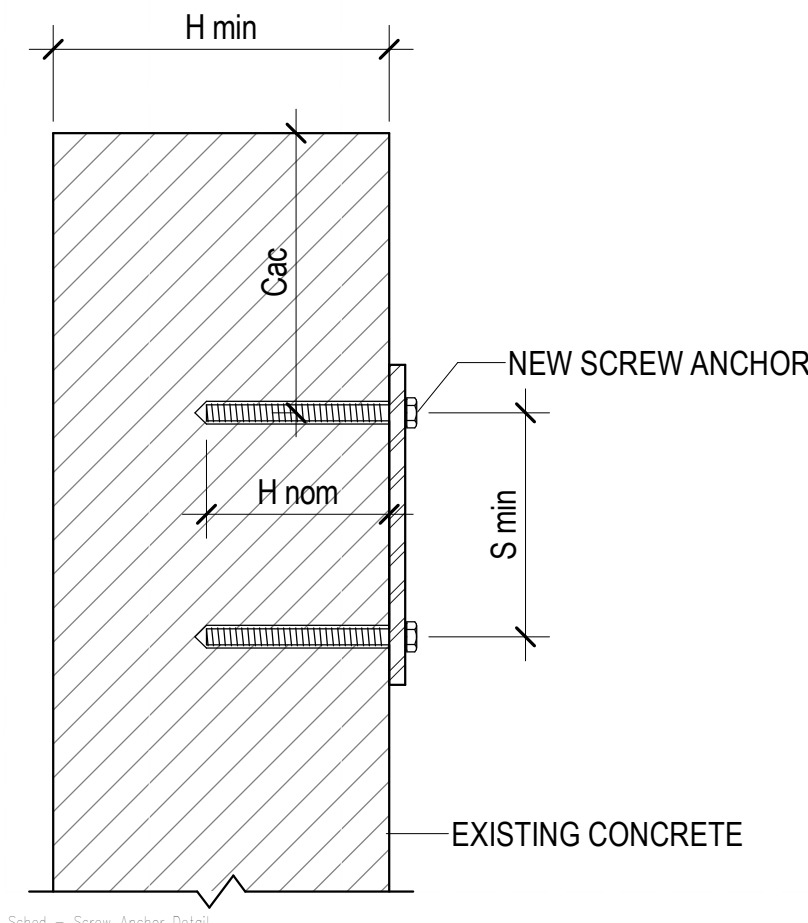
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EXPANSION ANCHORS IN CONCRETE SCHEDULE				
ANCHOR SIZE	MINIMUM EDGE DISTANCE (Cdc)	EMBEDMENT LENGTH (H nom)	MINIMUM CONCRETE THICKNESS (H min)	MINIMUM ANCHOR SPACING (S min)
3/8"Ø	6.1/2"	2.7/8"	4.1/2"	3.3/4"
1/2"Ø	10"	3.7/8"	6"	5"
5/8"Ø	10"	5.1/8"	8"	6"
3/4"Ø	16"	5.3/4"	10"	7"

NOTES:

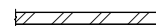
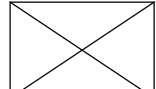
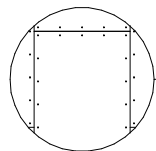
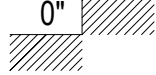
- THIS SCHEDULE SHALL BE USED ONLY WHERE SPECIFICALLY REFERENCED ON THE DRAWINGS. ANCHORS AT OTHER LOCATIONS MUST BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
- EDGE DISTANCE, Cdc, AND EMBEDMENT LENGTHS, H nom, AND ANCHOR SPACING SPECIFIED ON PLANS OR DETAILS TAKE PRECEDENCE OVER VALUES IN THIS SCHEDULE.
- ANCHORS LOCATED WHERE THE THICKNESS OF THE EXISTING CONCRETE MEMBER DOES NOT MEET THE REQUIRED MINIMUM CONCRETE THICKNESS MUST BE APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION.
- SEE GENERAL STRUCTURAL NOTES FOR LIST OF APPROVED ANCHORS AND OTHER REQUIREMENTS FOR USING EXPANSION ANCHORS.



SCREW ANCHORS IN CONCRETE SCHEDULE				
ANCHOR SIZE	MINIMUM EDGE DISTANCE (Cdc)	EMBEDMENT LENGTH (H nom)	MINIMUM CONCRETE THICKNESS (H min)	MINIMUM ANCHOR SPACING (S min)
3/8"Ø	3.3/4"	3.1/4"	5"	3"
1/2"Ø	4.1/2"	4"	6.1/4"	3.1/2"
5/8"Ø	6.3/8"	5.1/2"	8.1/2"	3.3/4"
3/4"Ø	7.5/16"	6.1/4"	10"	4.1/2"

NOTES:

- THIS SCHEDULE SHALL BE USED ONLY WHERE SPECIFICALLY REFERENCED ON THE DRAWINGS AND AT OTHER LOCATIONS WITH APPROVAL OF THE STRUCTURAL ENGINEER.
- EDGE DISTANCE, Cdc, AND EMBEDMENT LENGTHS, H nom, AND ANCHOR SPACING SPECIFIED ON PLANS OR DETAILS TAKE PRECEDENCE OVER VALUES IN THIS SCHEDULE.
- ANCHORS LOCATED WHERE THE THICKNESS OF THE EXISTING CONCRETE MEMBER DOES NOT MEET THE REQUIRED MINIMUM CONCRETE THICKNESS MUST BE APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION.
- SPECIAL INSPECTION IS REQUIRED DURING INSTALLATION OF ALL SCREW ANCHORS PER THE CODE EVALUATION REPORT FOR THE ANCHOR AND THE QUALITY ASSURANCE SECTION OF THE GENERAL STRUCTURAL NOTES.
- SEE GENERAL STRUCTURAL NOTES FOR LIST OF APPROVED ANCHORS AND OTHER REQUIREMENTS FOR USING SCREW ANCHORS.
- SCREW ANCHORS SHALL ONLY BE USED IN INTERIOR DRY LOCATIONS

PLAN LEGEND		
	FOOTING - SQUARE FOOTING - RECTANGULAR FOOTING - MAT FOOTING	
	STEEL STUD WALL - STRUCTURAL	
	STEEL HEADER IN STEEL STUD WALL	
	OPENING	
	CFS BEAM OR GIRDER	
	CFS JOIST OR PURLIN	
	WOOD DIAPHRAGM SHEATHING	
	0" CHANGE IN ELEVATION	

CONCRETE REINFORCING BAR DEVELOPMENT AND LAP SPLICE LENGTH SCHEDULE																							
BAR SIZE	f _c = 3000 PSI				f _c = 4000 PSI				f _c = 4500 PSI				f _c = 5000 PSI				f _c = 6000 PSI				f _c = ALL		
	L _d	L _t	L _{sb}	L _{sbt}	L _d	L _t	L _{sb}	L _{sbt}	L _d	L _t	L _{sb}	L _{sbt}	L _d	L _t	L _{sb}	L _{sbt}	L _d	L _t	L _{sb}	L _{sbt}	L _{dc}	L _{sc}	
#3	17"	22"	22"	28"	15"	19"	19"	25"	14"	18"	18"	23"	13"	17"	17"	22"	12"	16"	16"	20"	8"	12"	
#4	22"	29"	29"	38"	19"	25"	25"	33"	18"	24"	24"	31"	17"	23"	23"	29"	16"	21"	21"	27"	10"	15"	
#5	28"	36"	36"	47"	24"	31"	31"	41"	23"	30"	30"	38"	22"	28"	28"	36"	20"	26"	26"	33"	12"	19"	
#6	33"	43"	43"	56"	29"	37"	37"	49"	27"	35"	35"	46"	26"	34"	34"	44"	24"	31"	31"	40"	15"	23"	
#7	48"	63"	63"	81"	42"	54"	54"	71"	40"	51"	51"	67"	38"	49"	49"	63"	34"	45"	45"	58"	17"	27"	
#8	55"	72"	72"	93"	48"	62"	62"	81"	45"	59"	59"	76"	43"	56"	56"	72"	39"	51"	51"	66"	19"	30"	
#9	62"	81"	81"	105"	54"	70"	70"	91"	51"	66"	66"	86"	48"	63"	63"	81"	44"	57"	57"	74"	22"	34"	
#10	70"	91"	91"	118"	61"	79"	79"	102"	57"	74"	74"	96"	54"	71"	71"	92"	50"	64"	64"	84"	24"	39"	
#11	78"	101"	101"	131"	67"	87"	87"	114"	64"	82"	82"	107"	60"	78"	78"	102"	55"	71"	71"	93"	27"	43"	
#14	93"	121"	NA	NA	81"	105"	NA	NA	76"	99"	NA	NA	72"	94"	NA	NA	66"	86"	NA	NA	33"	NA	
#18	124"	161"	NA	NA	108"	140"	NA	NA	101"	132"	NA	NA	96"	125"	NA	NA	88"	114"	NA	NA	43"	NA	

NOTES:

- DEFINITIONS:
L_d: TENSION DEVELOPMENT LENGTH FOR REINFORCEMENT SATISFYING THE FOLLOWING CONDITIONS:
SLABS AND WALLS: CLEAR SPACING > 2db AND CONCRETE CLEAR COVER > db
BEAMS AND COLUMNS: CLEAR COVER SPACING > db AND CONCRETE CLEAR COVER > db
L_t: DEVELOPMENT LENGTH FOR TOP BARS IN TENSION
L_{sb}: TENSION LAP SPLICE LENGTH FOR OTHER THAN TOP BARS (CLASS B)
L_{sbt}: TENSION LAP SPLICE LENGTH OF TOP BARS
L_{dc}: DEVELOPMENT LENGTH FOR BARS IN COMPRESSION. TO BE USED ONLY WHEN SPECIFIED IN DETAILS.
L_{sc}: TIED COLUMN LAP SPLICE IN COMPRESSION. TO BE USED ONLY WHEN SPECIFIED IN DETAILS.
db: NOMINAL BAR DIAMETER (INCHES)
TOP BARS: HORIZONTAL BEAM REINFORCEMENT WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW
- MULTIPLY VALUES IN SCHEDULE BY 1.5 IF CLEAR SPACING OR CONCRETE COVER DO NOT MEET REQUIREMENTS FOR L_d IN NOTE 1.
- MULTIPLY VALUES IN SCHEDULE BY 1.3 FOR USE IN LIGHTWEIGHT AGGREGATE CONCRETE.
- FOR EPOXY COATED BAR: MULTIPLY VALUES IN SCHEDULE BY 1.5 FOR BARS WITH CLEAR COVER < 3db OR CLEAR SPACING < 6db. OTHERWISE MULTIPLY VALUES BY 1.2.
- FOR BUNDLED BARS OF THREE OR LESS MULTIPLY LENGTHS BY 1.2.
 - FOR BUNDLED BARS OF FOUR OR MORE MULTIPLY LENGTHS BY 1.33.
 - INDIVIDUAL BAR SPLICES WITHIN A BUNDLE SHALL NOT OVERLAP. ENTIRE BUNDLES SHALL NOT BE LAP SPLICED.
- SCHEDULE LENGTHS ARE FOR f_y=60ksi REINFORCING. MULTIPLY LENGTHS BY 1.53 FOR f_y=80ksi, 2.17 FOR f_y=100ksi REINFORCING.
- LAP SPLICES ARE NOT PERMITTED FOR #14 & #18 BARS. USE BAR COUPLERS PER G.S.N.
- MINIMUM CLEAR SPACING BETWEEN THE CONTACT LAP SPLICES SHOWN IN THIS SCHEDULE AND ADJACENT SPLICES OR BARS SHALL BE IN ACCORDANCE WITH THE DETAILING PROVISIONS OF GENERAL STRUCTURAL NOTES.

ABBREVIATIONS	
@	AT
AB	ANCHOR BOLT (S)
ABV	ABOVE
ALT	ALTERNATE
APPROX	APPROXIMATE
ARCH	ARCHITECT(URAL)
BLDG	BUILDING
BLW	BELOW
BM	BEAM
BOT	BOTTOM
BRB	BUCKLING-RESTRAINED BRACE
BRG	BEARING
BTWN	BETWEEN
CJ	CONSTRUCTION JOINT OR CONTROL JOINT
CJP	COMPLETE JOINT PENETRATION
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CTR	CENTER
D.B.	DECK BEARING
db	DIAMETER OF REINFORCING BAR
DBA	DEFORMED BAR ANCHORS
DBL	DOUBLE
DET	DETAIL
DIA (OR Ø)	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DK	DECK
DN	DOWN
DWG	DRAWING
DWL	DOWEL
E.F.	EACH FACE
E.J.	EXPANSION JOINT (SEISMIC SEPARATION JOINT)
E.W.	EACH WAY
EA	EACH
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
ENG	ENGINEER
EQ	EQUAL
EQUIP	EQUIPMENT
EXIST (E)	EXISTING
EXP	EXPANSION / EXPOSED
EXT	EXTERIOR
F.D.	FLOOR DRAIN
F.F.	FINISH FLOOR
F.V.	FIELD VERIFY
FDTN	FOUNDATION
FIN	FINISH
FL	FLOOR
FT	FOOT
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED
GLB	GLU-LAMINATED BEAM
GR	GRADE
GSN	GENERAL STRUCTURAL NOTES
HB	HORIZONTAL BRIDGING
HORIZ	HORIZONTAL
HSA	HEADED STUD ANCHORS
HSS	HOLLOW STRUCTURAL STEEL
HT	HEIGHT
I.F.	INSIDE FACE
IBC	INTERNATIONAL BUILDING CODE
ICC	INTERNATIONAL CODE COUNCIL
IN	INCH
INSUL	INSULATION
INT	INTERIOR
JST	JOIST
JT	JOINT
K	KIPS - 1,000 POUNDS
KLF	KIPS PER LINEAL FOOT
KSF	KIPS PER SQUARE FOOT
KSI	KIPS PER SQUARE INCH
LBS	POUNDS
Ld, Lt, Lsb, Lsbt, Ldc, Lsc	SEE CONCRETE REINFORCING BAR DEVELOPMENT AND LAP LENGTH SCHEDULE
LF	LINEAL FOOT
LFRS	LATERAL FORCE RESISTING SYSTEM (SFRS & WFRS)
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LSH	LONG SIDE HORIZONTAL
LSV	LONG SIDE VERTICAL
MAS	MASONRY
MAX	MAXIMUM
MCJ	MASONRY CONTROL JOINT
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM

ABBREVIATIONS	
MISC	MISCELLANEOUS
NIC	NOT IN CONTRACT
NORM	NORMAL
NTS	NOT TO SCALE
O.C.	ON CENTER
O.F.	OUTSIDE FACE
OPNG	OPENING
OPP	OPPOSITE
OWSJ	OPEN WEB STEEL JOIST
P.T.	POST-TENSIONED
PAF	POWDER ACTUATED FASTENER
PCF	POUNDS/CUBIC FOOT
PJP	PARTIAL JOINT PENETRATION
PL	PLATE
PLF	POUNDS/LINEAL FOOT
PNL	PANEL
PSF	POUNDS/SQ FOOT
PSI	POUNDS/SQ INCH
R.D.	ROOF DRAIN
REINF	REINFORCING
REQD	REQUIRED
SDS	SELF-DRILLING SCREW
SFRS	SEISMIC FORCE RESISTING SYSTEM
SHT	SHEET
SI	SPECIAL INSPECTION (SP. INSP.)
SIM	SIMILAR
SOG	SLAB ON GRADE
SQ	SQUARE
STAG	STAGGERED
STD	STANDARD
STIFF	STIFFENER
STL	STEEL
STRUCT	STRUCTURAL
T & B	TOP AND BOTTOM
T.O.	TOP OF
TEMP	TEMPERATURE
THDS	THREADS
TOC	TOP OF CONCRETE
TOCP	TOP OF CONCRETE PIER
TOF	TOP OF FOOTING
TOS	TOP OF SLAB
TOST	TOP OF STEEL
TOW	TOP OF WALL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
W.P.	WORK POINT
W/	WITH
WF	WIDE FLANGE
WFRS	WIND FORCE RESISTING SYSTEM
WT	WEIGHT
WWF	WELDED WIRE FABRIC
YD	YARD

PLAN MARKS	
BF-#	BRACED FRAME
CB-#	CONCRETE BEAM
CC-#	CONCRETE COLUMN
CCSS-#	CANTILEVERED CONCRETE SUSPENDED SLAB
CDP-#	CONCRETE DRILLED PIER
CFW-#	CONCRETE FOUNDATION WALL
OGB-#	CONCRETE GRADE BEAM
CJ-#	CONCRETE JOIST
CJC-#	CONCRETE JAMB COLUMN
CL-#	CONCRETE LINTEL
CP-#	CONCRETE PIER
CRW-#	CONCRETE RETAINING WALL
CSG-#	CONCRETE SLAB ON GRADE
CSH-#	CONCRETE SHEAR HEAD
CSS-#	CONCRETE SUSPENDED SLAB
CSW-#	CONCRETE SHEAR WALL
CW-#	CONCRETE WALL
FC#	CONTINUOUS FOOTING
FM#	MAT FOOTING
FR#	RECTANGULAR FOOTING
FS#	SQUARE FOOTING
FTS#	THICKENED SLAB FOOTING
HD-#	HOLD DOWN ANCHOR
MC-#	MASONRY COLUMN
MF-#	MOMENT FRAME
ML-#	MASONRY LINTEL
MP-#	MASONRY PIER
MW-#	MASONRY WALL
PTB-#	POST-TENSIONED CONCRETE BEAM
SBP-#	STEEL BASE PLATE
MAS	MASONRY
SC-#	STEEL COLUMN
SCP-#	STEEL CAP PLATE
SD-#	STEEL DECK
SDA-#	STEEL DECK ATTACHMENT
SG-#	STEEL GIRDER
SJ-#	STEEL JOIST
SND-#	SNOW DRIFT
WB-#	WOOD BEAM
WBW-#	WOOD BEARING WALL
WC-#	WOOD COLUMN
WD-#	WOOD DIAPHRAGM
WJ-#	WOOD JOIST
WSW-#	WOOD SHEAR WALL

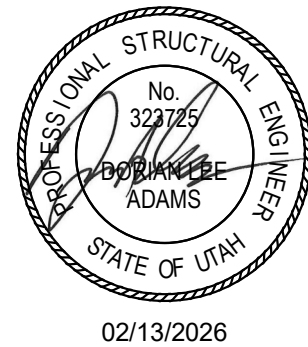
Intermountain Health
Intermountain Life Flight
Life Flight Simulator

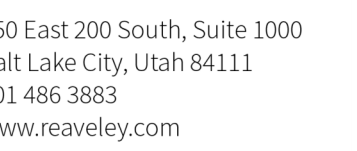
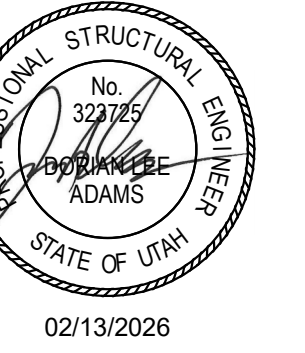
LEGENDS &
ABBREVIATIONS

SE002



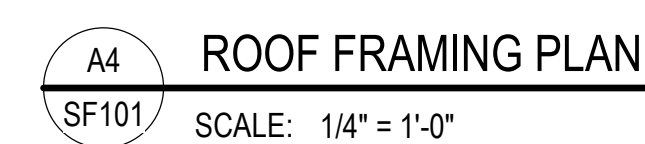
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NOTES:

- 1 ALIGN WALL STUDS WITH ROOF JOISTS PER DETAIL D1/SW601.
- 2 PROVIDE AN ADDITIONAL WALL STUD, BACK TO BACK, UNDER THE BEARING POINTS OF BACK TO BACK ROOF JOISTS.
- 3 SEE SHEET SW601 FOR DIAPHRAGM SCHEDULE AND DETAIL
- 4 SEE SHEET SW601 FOR STEEL STUD WALL SCHEDULE.
5. USE 8- 3/4" DIA HILTI HY 200 V3 + HIT-Z WITH 4" EMBEDMENT FOR CONNECTION OF SCISSORLIET TO CONCRETE.



Intermountain Health
Intermountain Life Flight
Life Flight Simulator

Salt Lake City, UT 84116

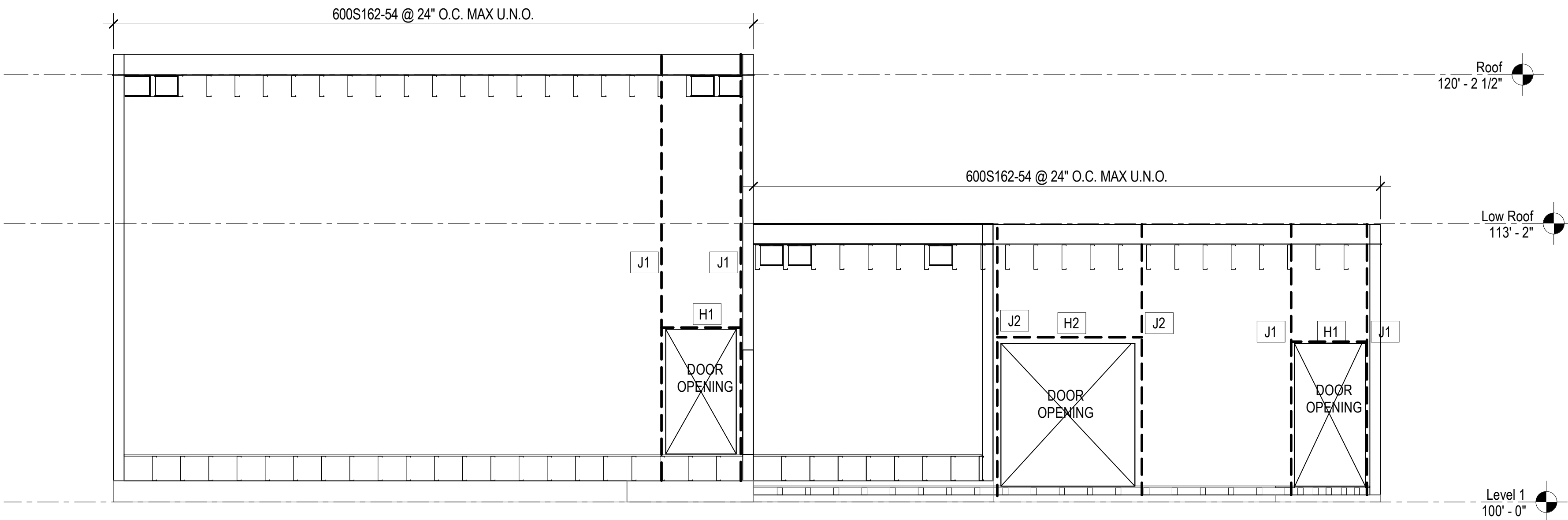
UJRA Project #	25252.00
ID SET	FEB 13, 2026

FLOOR AND ROOF FRAMING PLANS

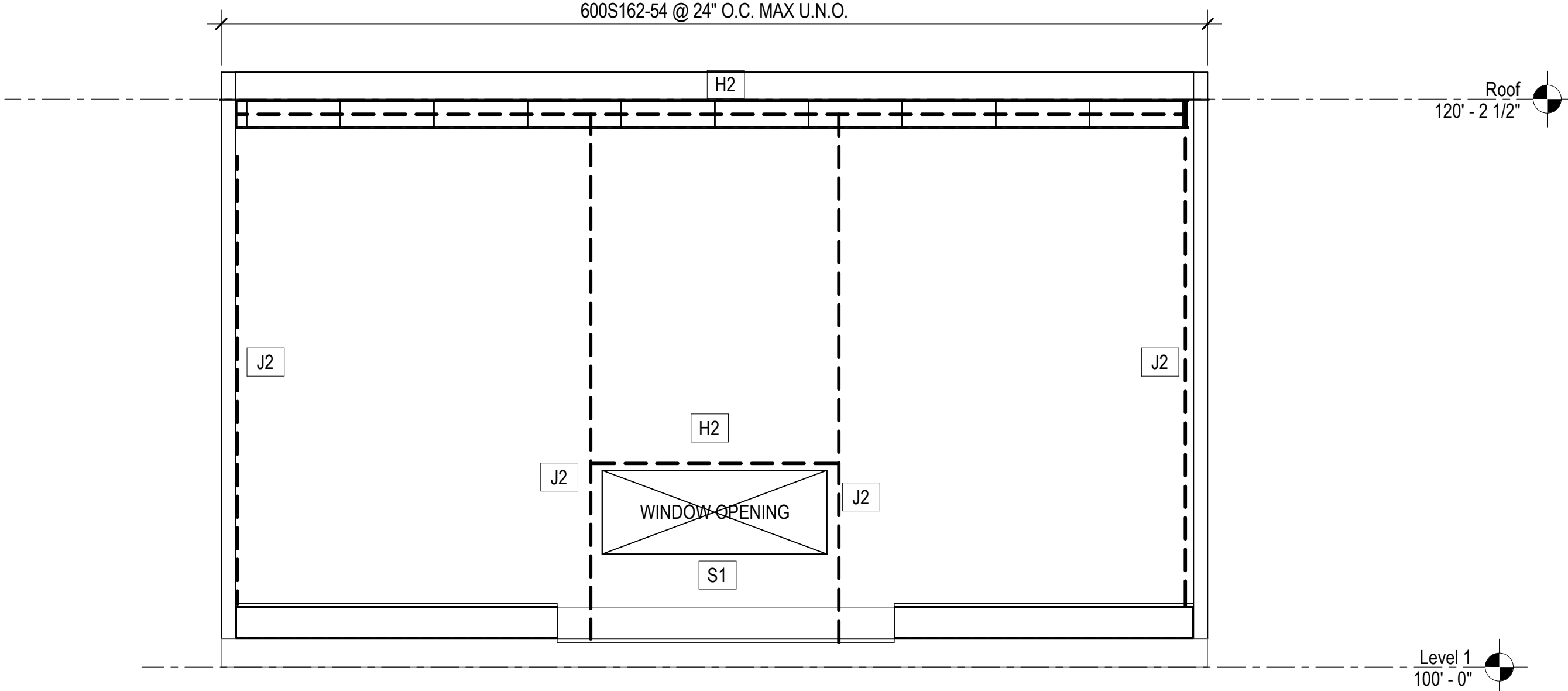
SF101



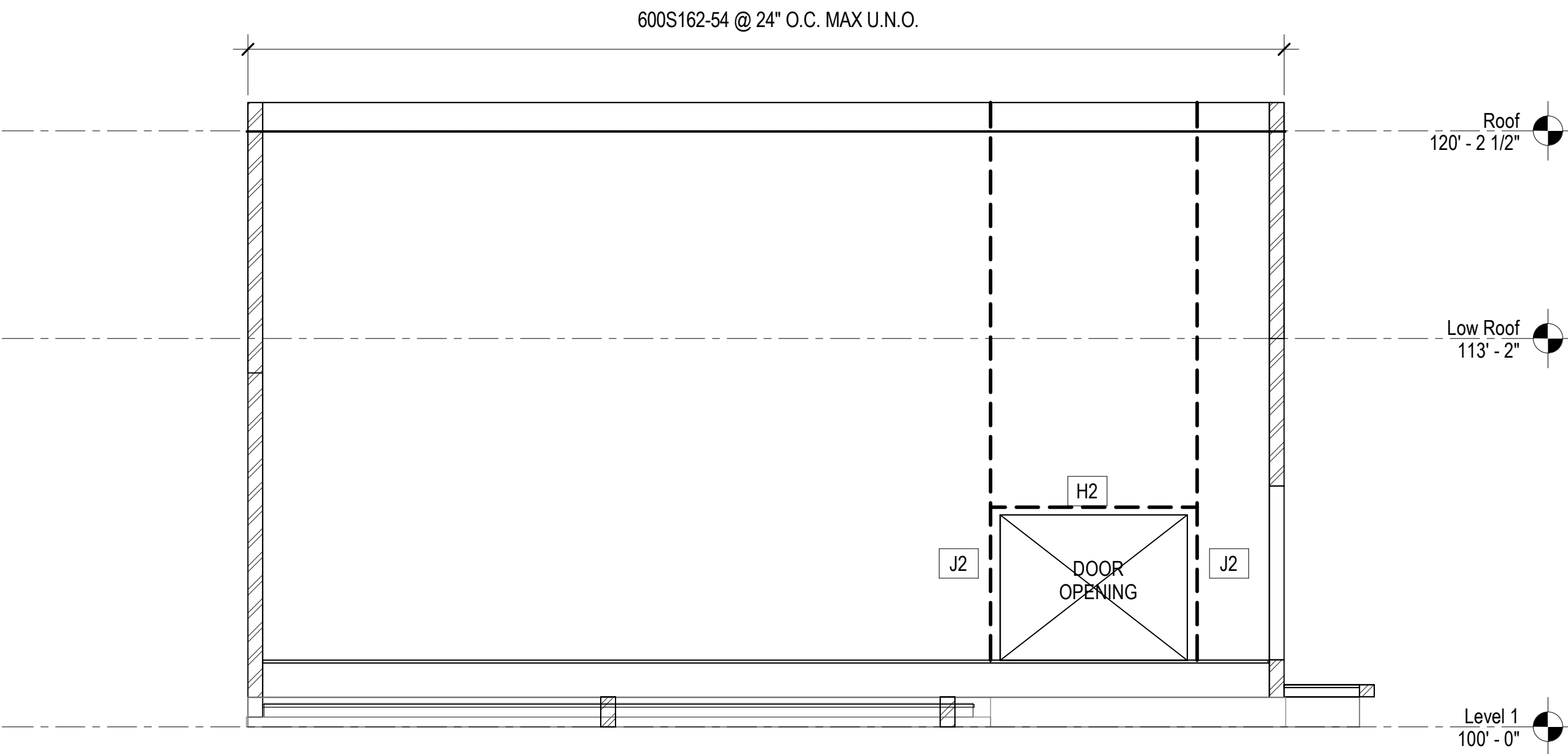
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C1 WALL FRAMING WEST ELEVATION
SF102 SCALE: 1/4" = 1'-0"



C4 WALL FRAMING NORTH ELEVATION
SF102 SCALE: 1/4" = 1'-0"

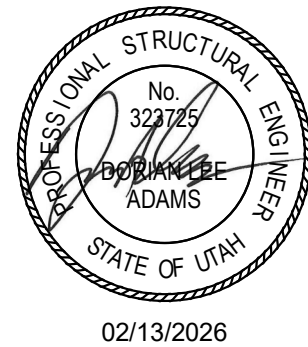


A4 WALL FRAMING NORTH INTERIOR ELEVATION
SF102 SCALE: 1/4" = 1'-0"

- WALL FRAMING PLAN NOTES
1. VERIFY WALL OPENING WITH ARCHITECTURAL AND MEP.
 2. PROVIDE DRIFT/DEFLECTION CONNECTIONS AT NON-LOAD BEARING PARTITION WALLS. SEE ARCH FOR LOCATIONS.
 3. INSTALL WALL STUDS IN-LINE WITH JOISTS. AT DOUBLE JOISTS, PROVIDE BACK TO BACK STUD IN WALL. FASTEN WEBS TOGETHER W/ #10 @ 12" O.C.
 4. SEE TYPICAL LOAD-BEARING STEEL STUD WALL SCHEDULE ON SW601.
 5. PROVIDE BRIDGING @ 4'-0" O.C ON WALL UNO.PER DETAIL A2/SW501 .



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Intermountain Health
Intermountain Life Flight
Life Flight Simulator

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Salt Lake City, UT 84116

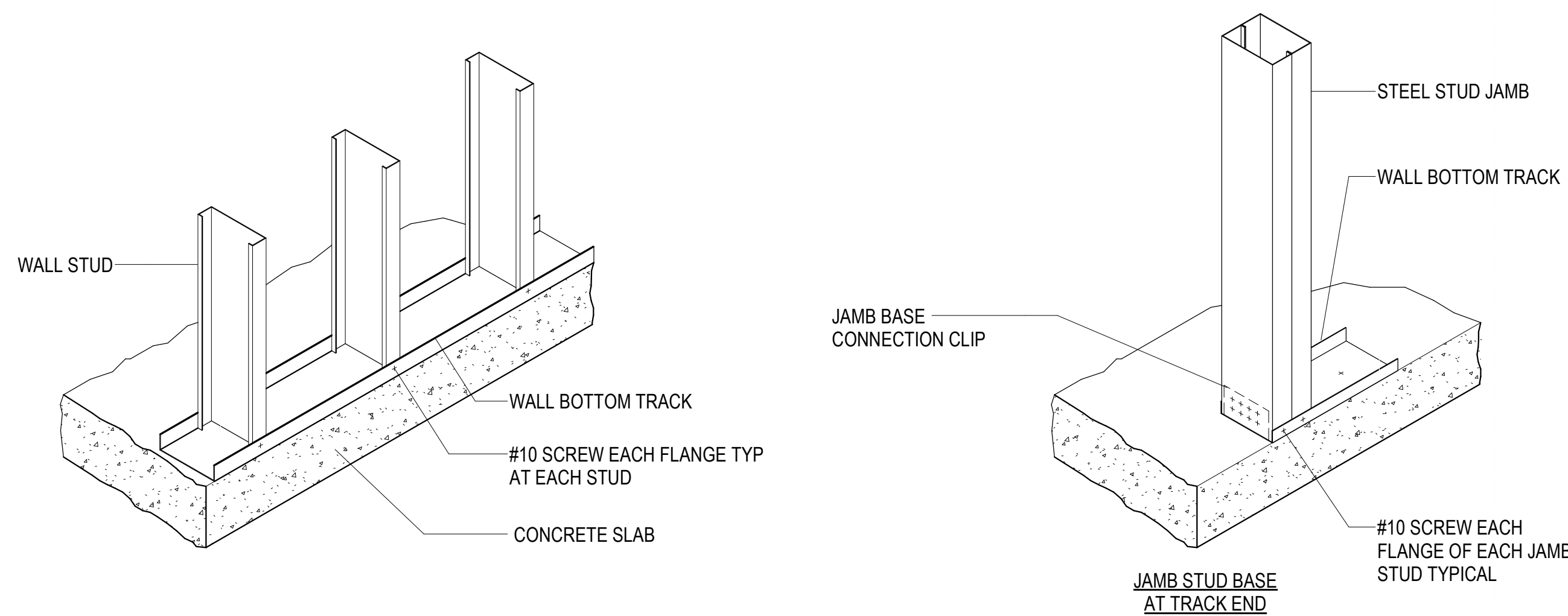
NJRA Project # 25252.00
BID SET FEB 13, 2026

STRUCTURAL
FRAMING
ELEVATIONS

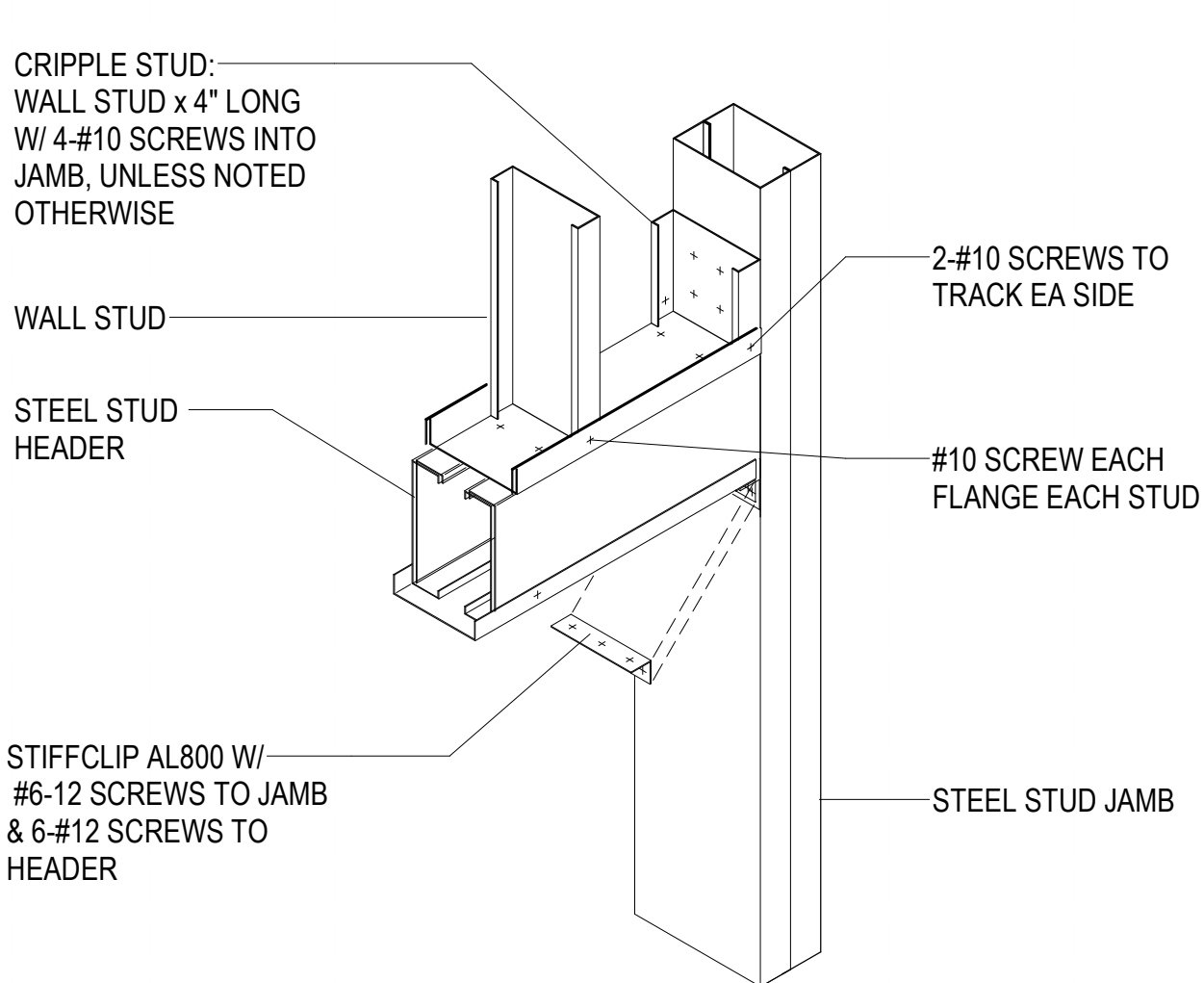
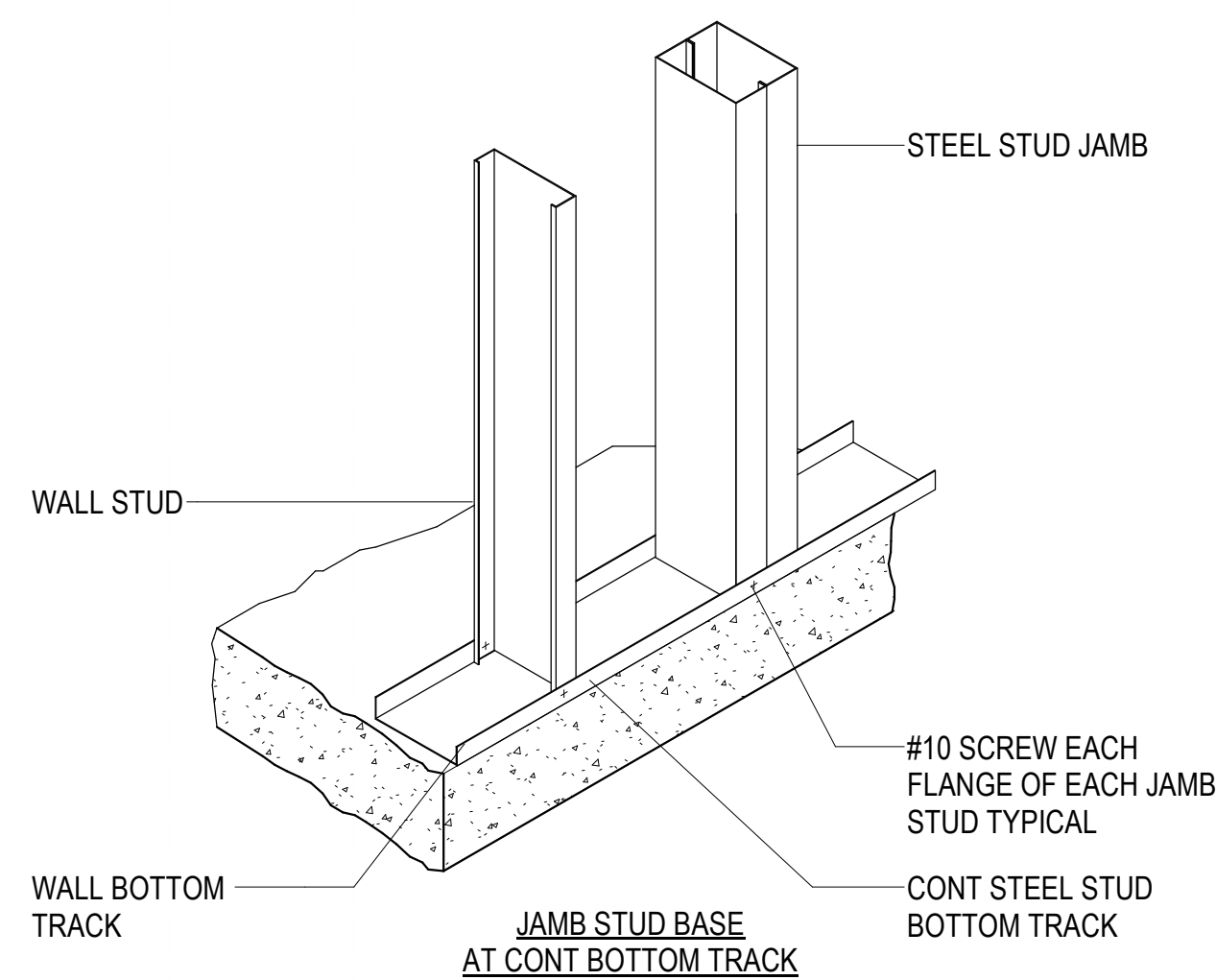
SF102

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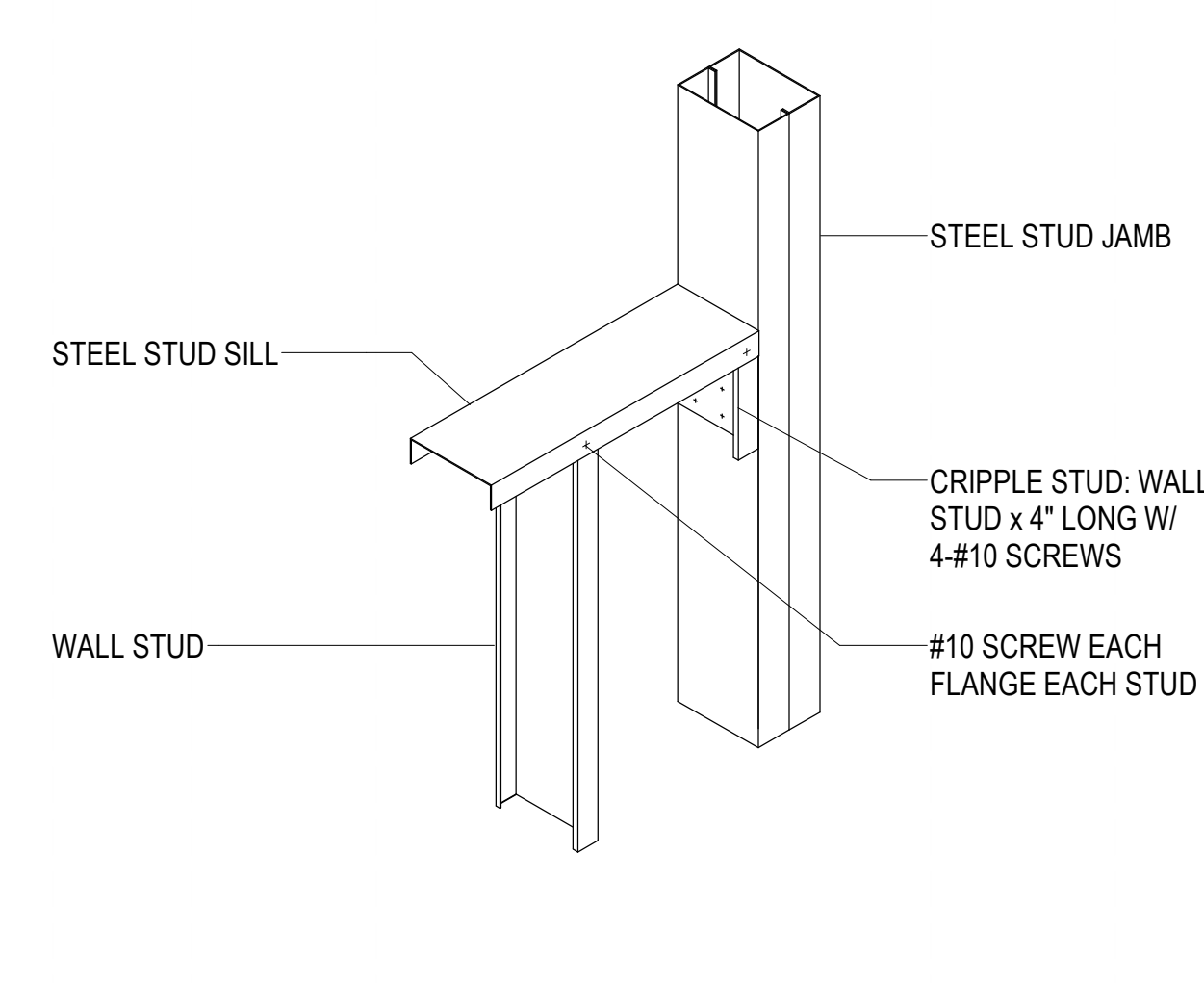
NOTE:
PROTECT EXISTING SLAB ON GRADE. DO NOT ANCHOR ANYTHING INTO THE EXISTING SLAB ON GRADE



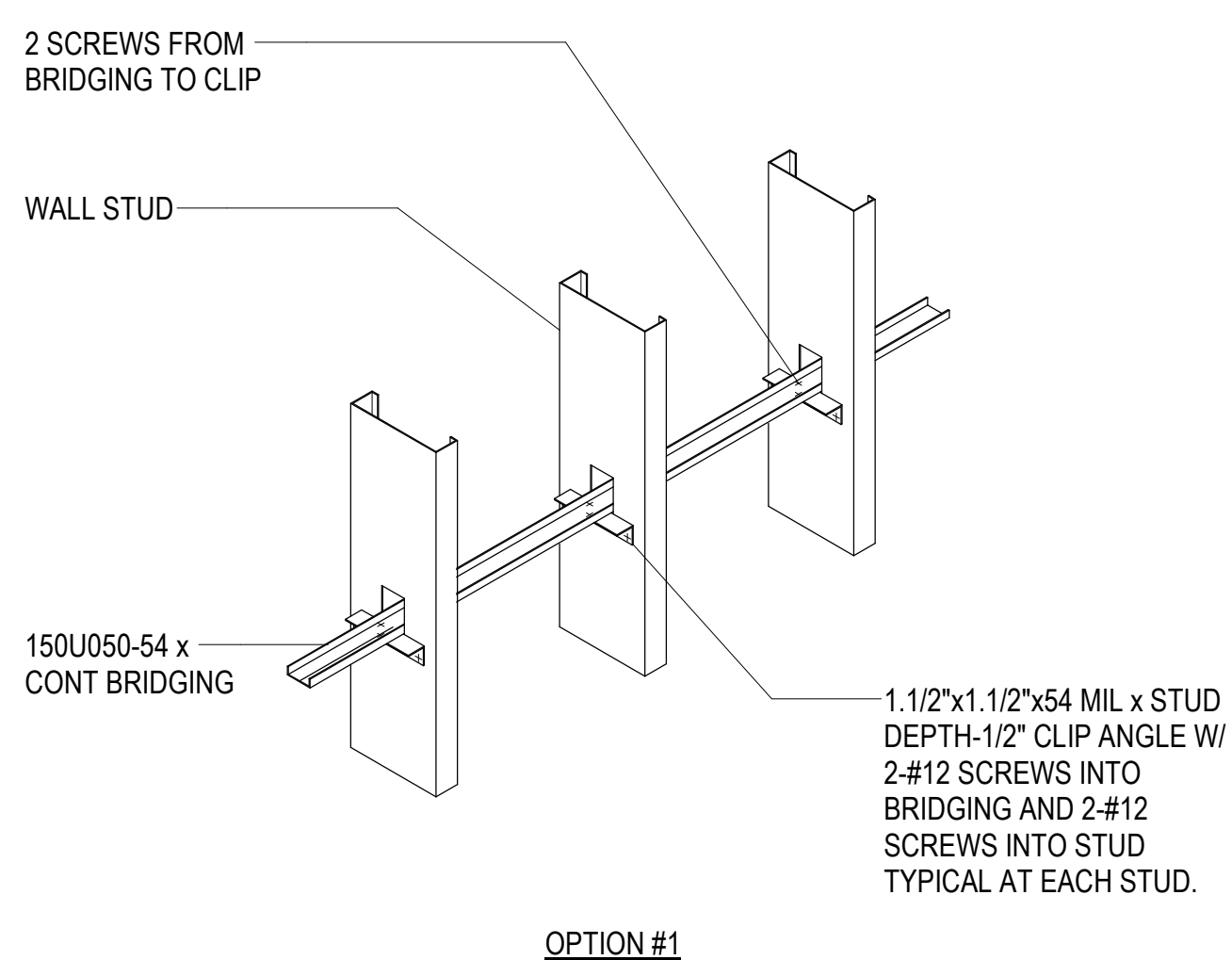
C1
SW501
TYPICAL BOTTOM TRACK ANCHORAGE DETAILS
NO SCALE



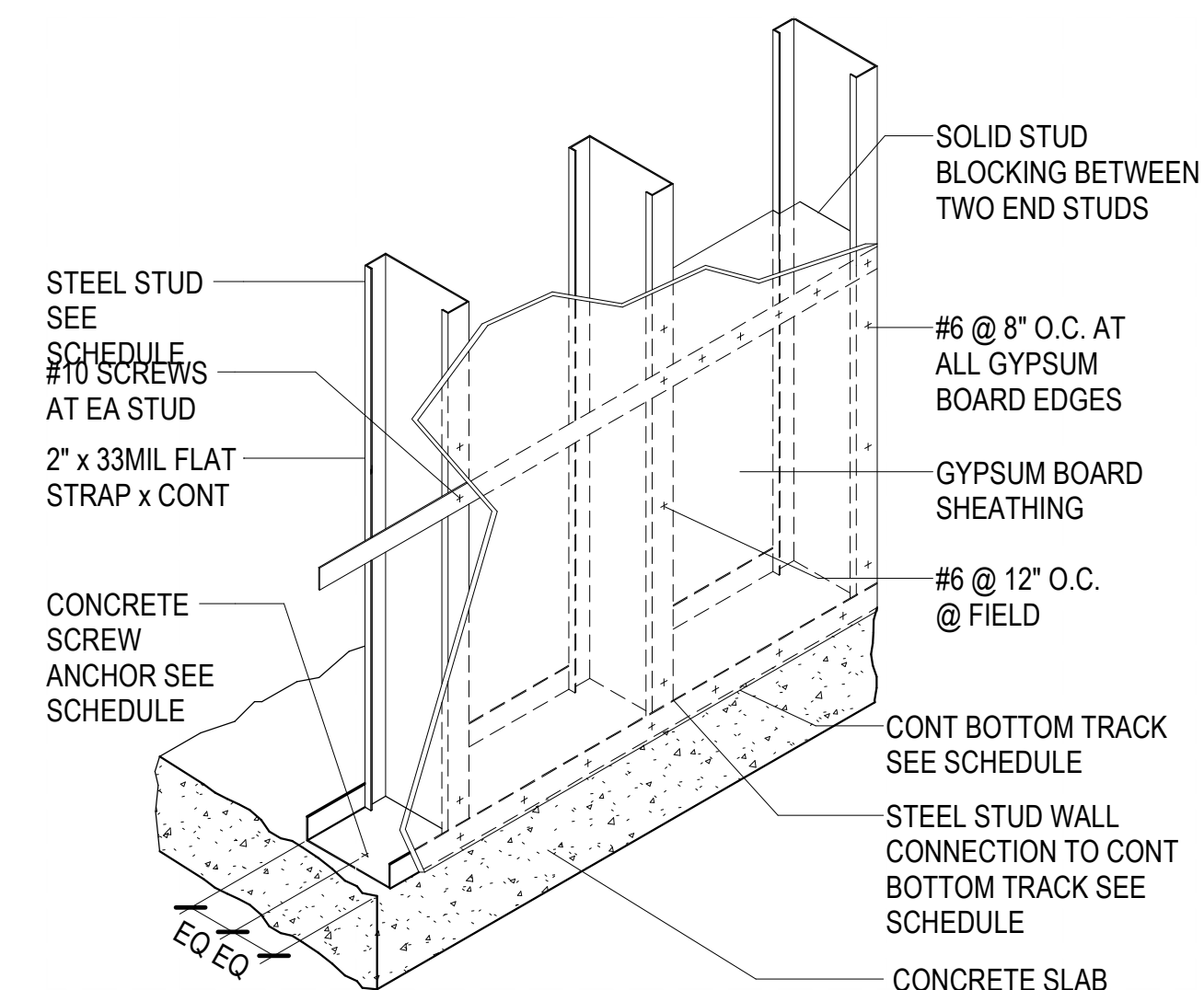
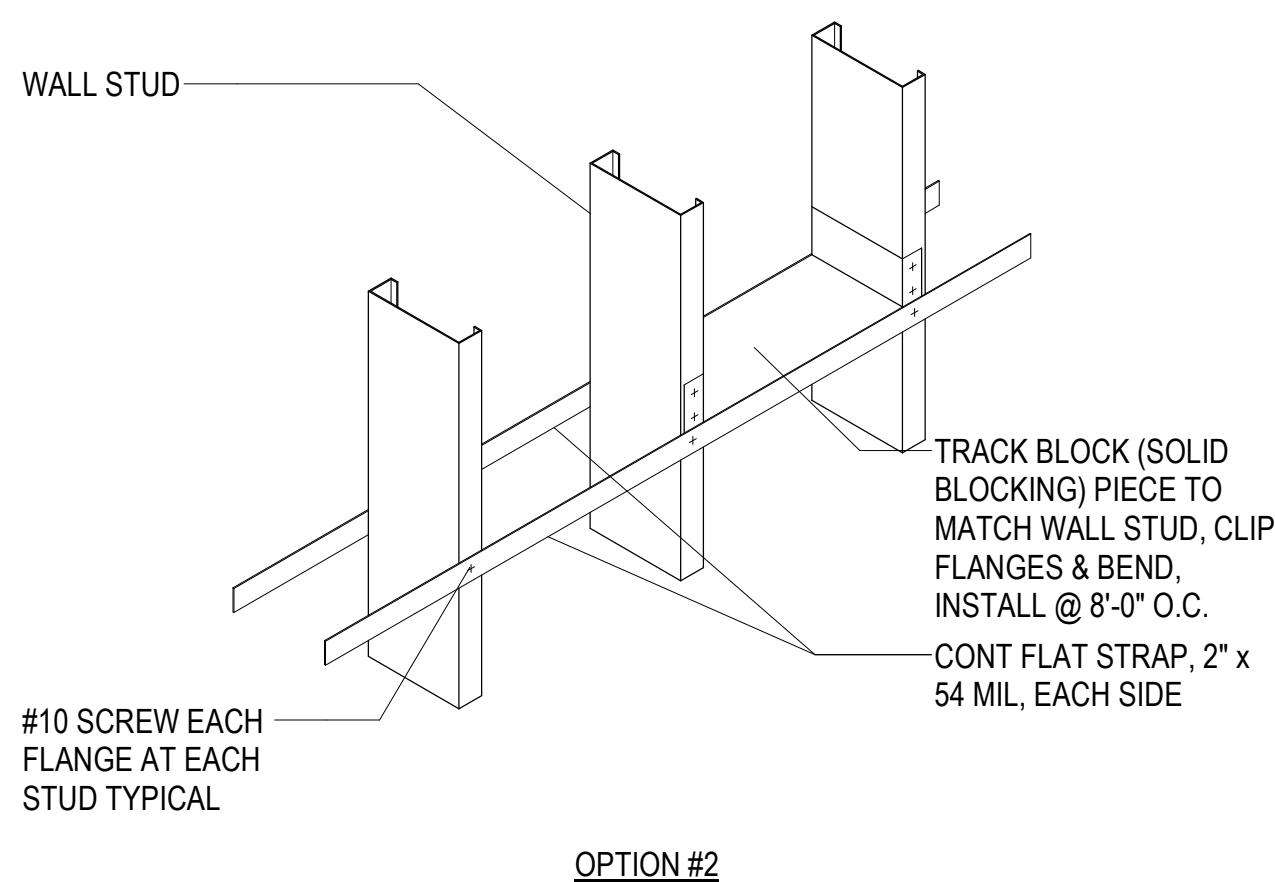
C2
SW501
TYPICAL HEADER CONNECTION DETAILS
NO SCALE



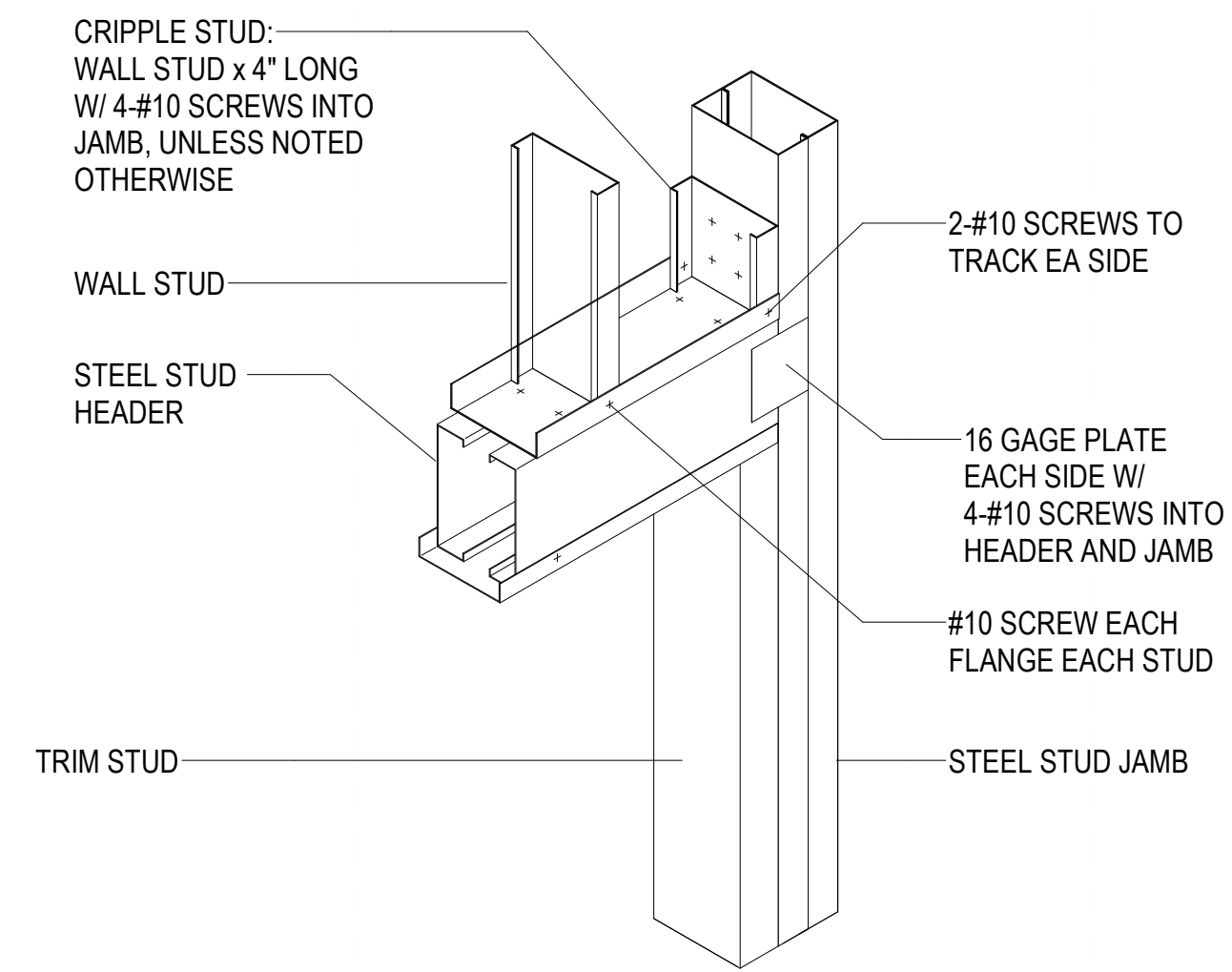
C3
SW501
TYPICAL SILL CONNECTION DETAILS
NO SCALE



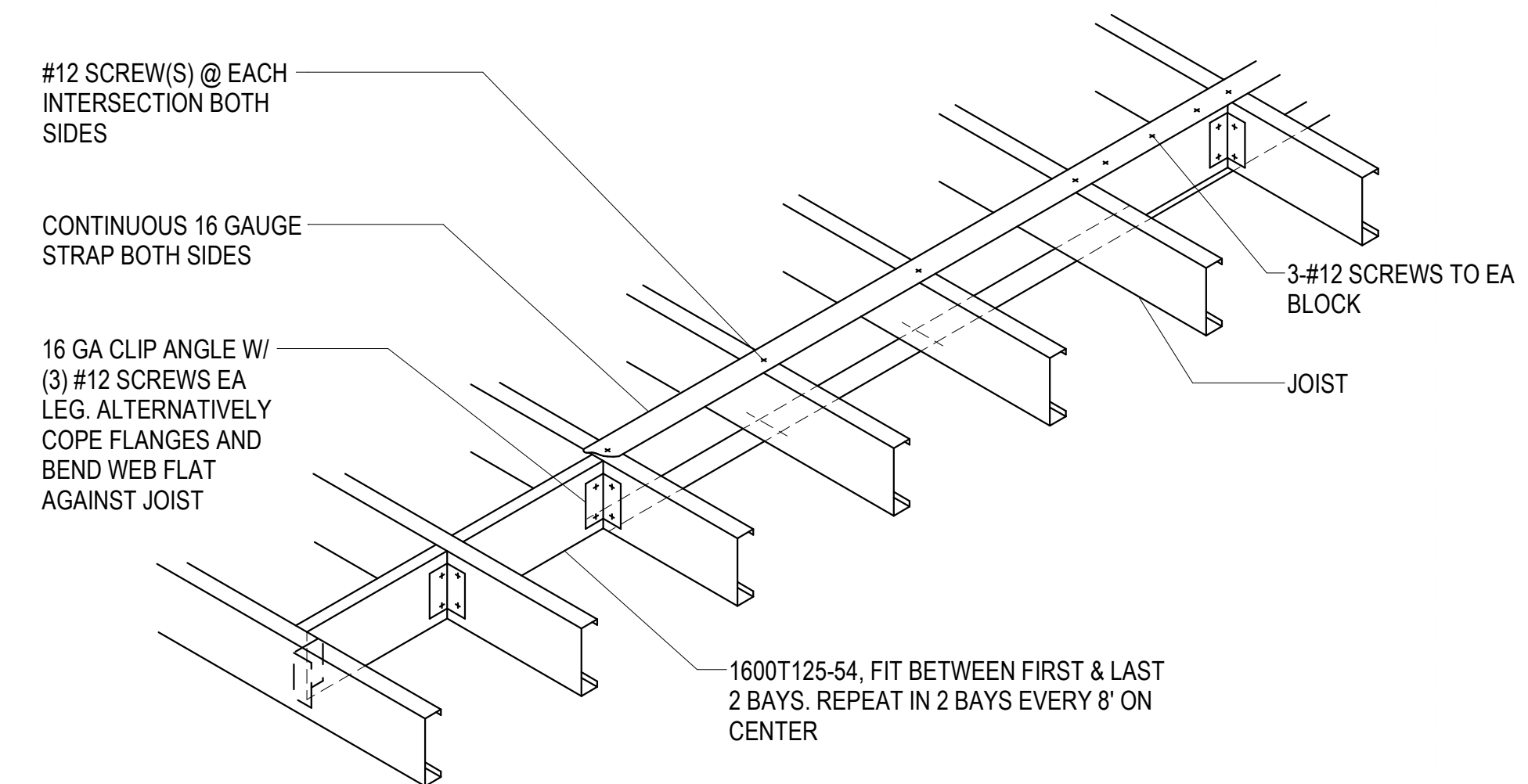
A2
SW501
TYPICAL STEEL STUD WALL BRIDGING DETAIL
NO SCALE



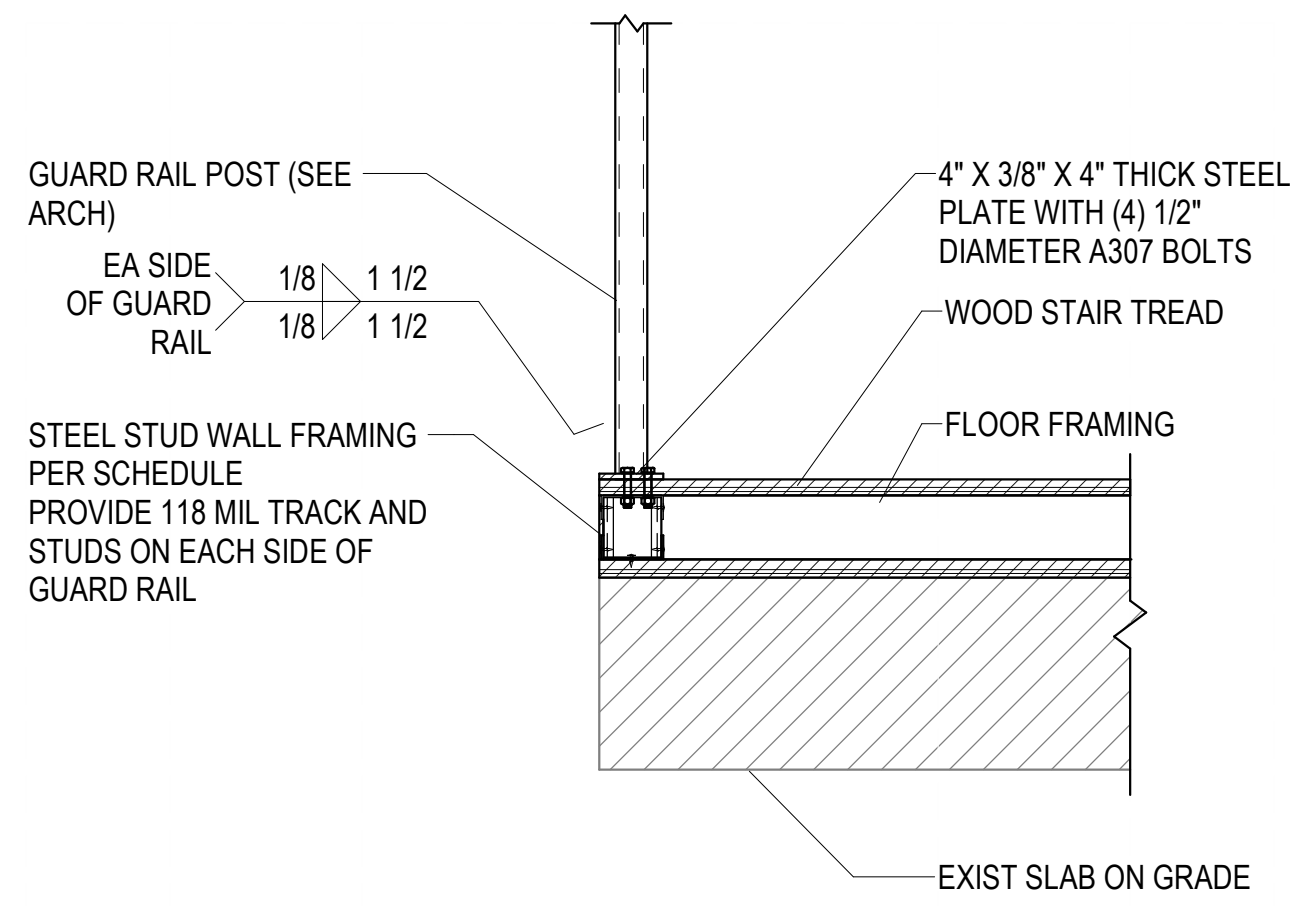
A4
SW501
TYPICAL COLD FORMED SHEAR WALL DETAIL
NO SCALE



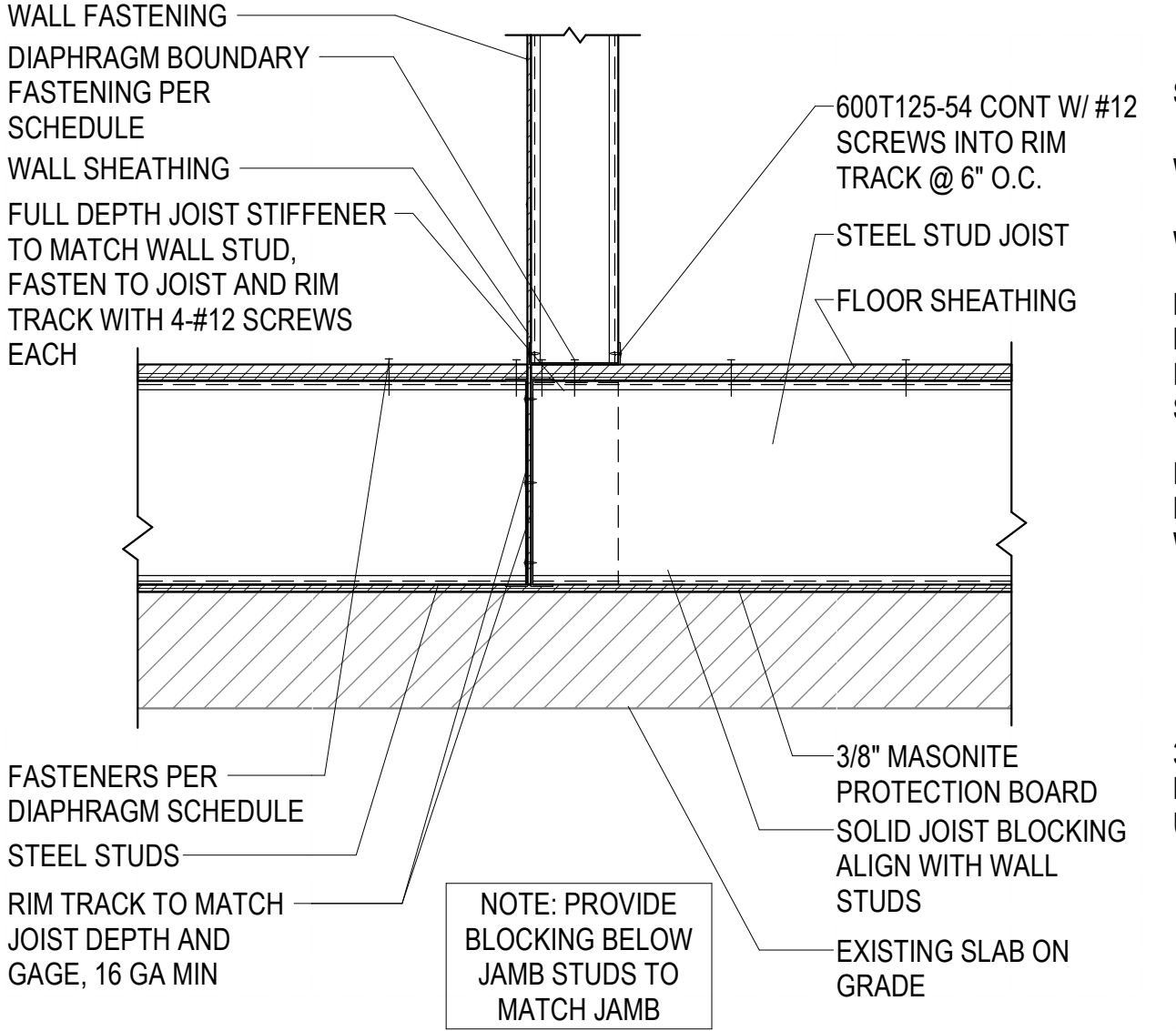
A5
SW501
TYPICAL HEADER CONNECTION DETAILS
NO SCALE



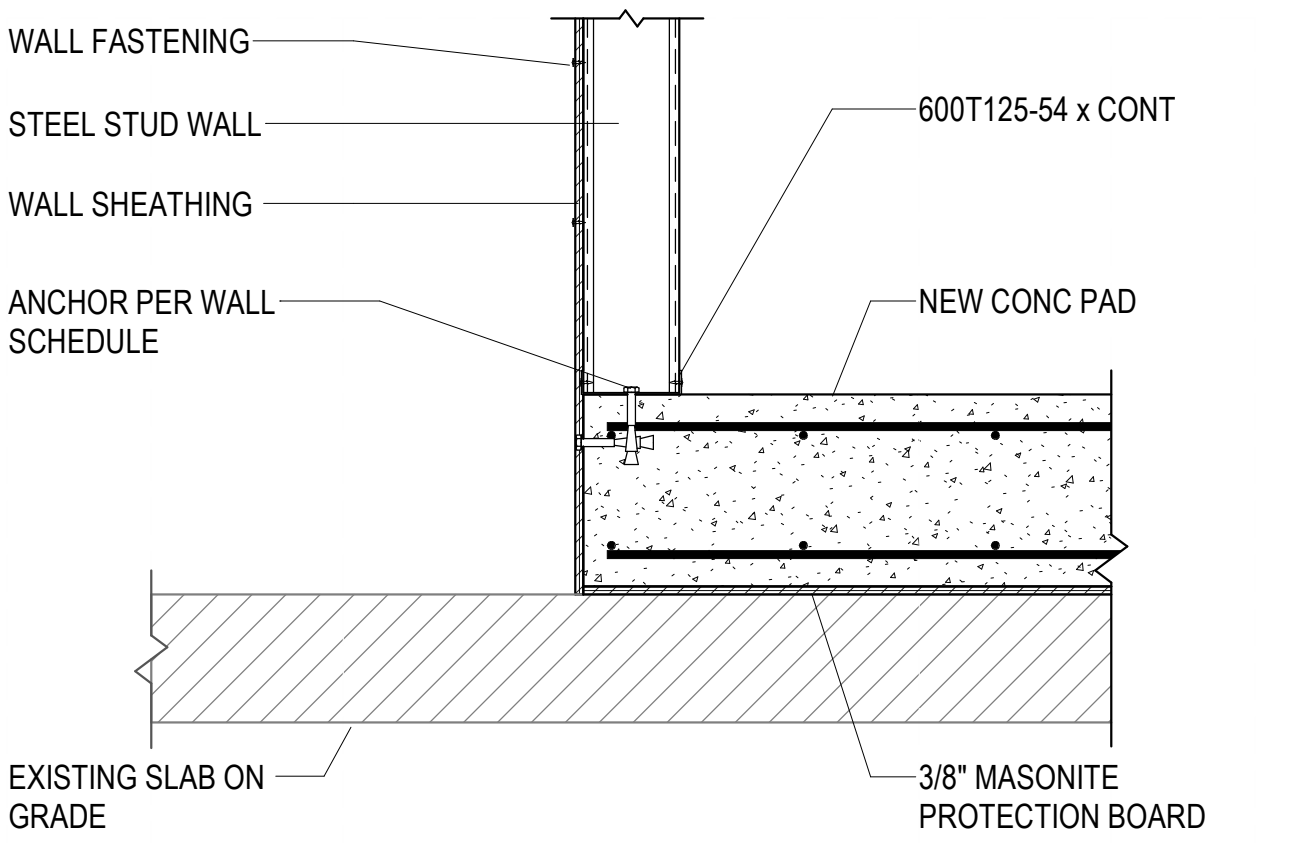
D4
SW501
JOIST BLOCK AND STRAP BRIDGING
NO SCALE



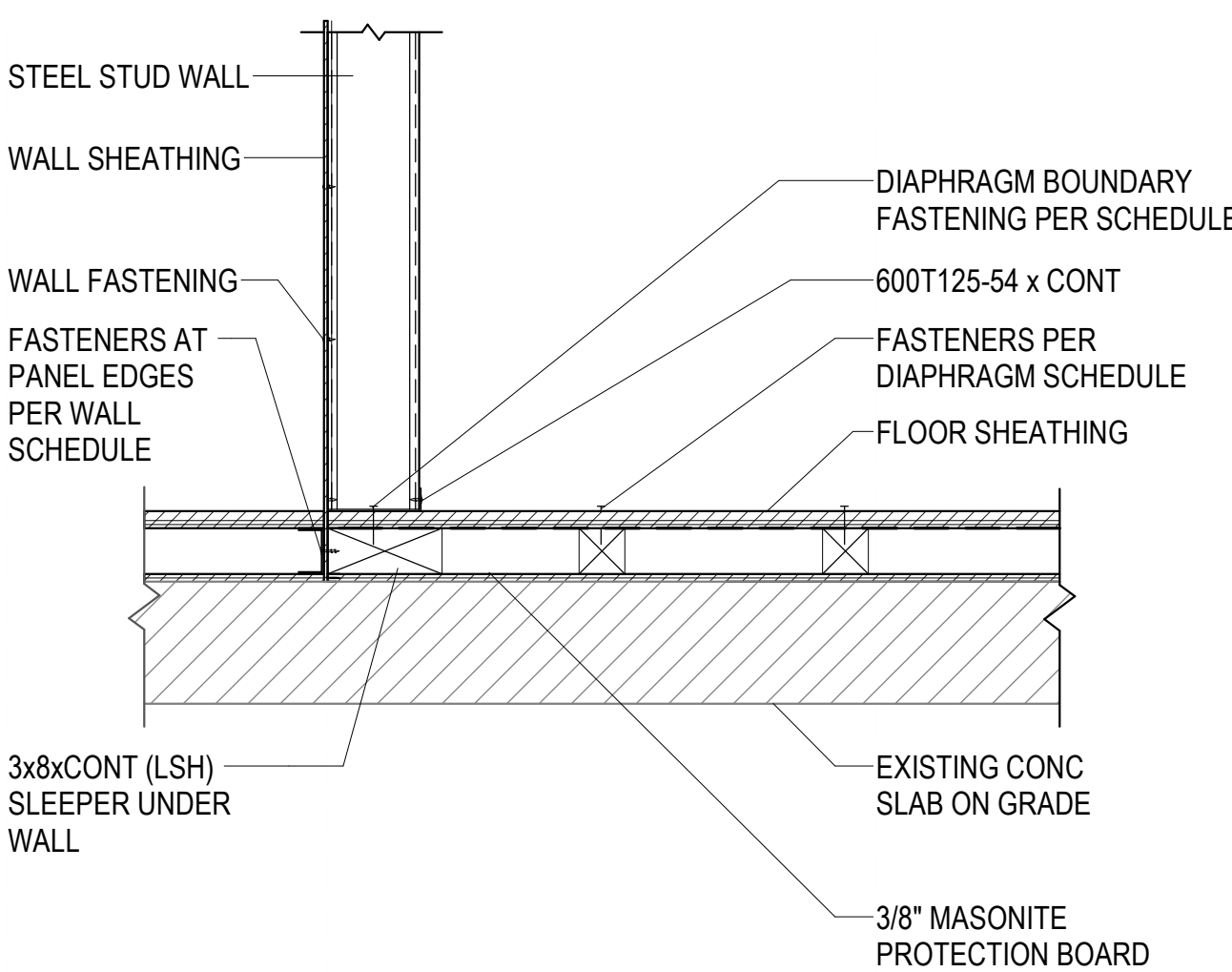
D1 RAMP DETAIL
SW502/ NO SCALE



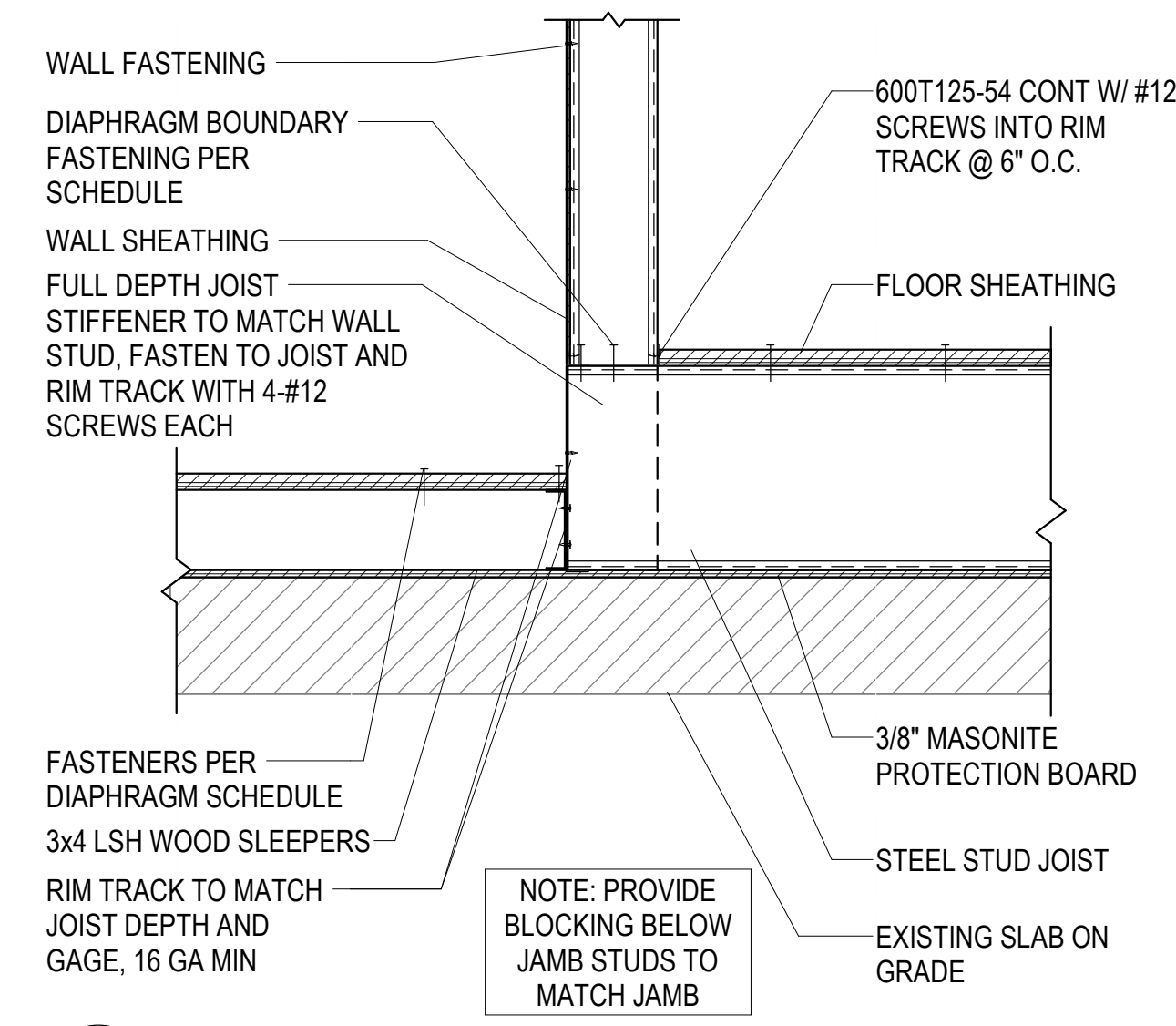
C1 CHANGE IN FLOOR JOIST IN WALL
SW502/ NO SCALE



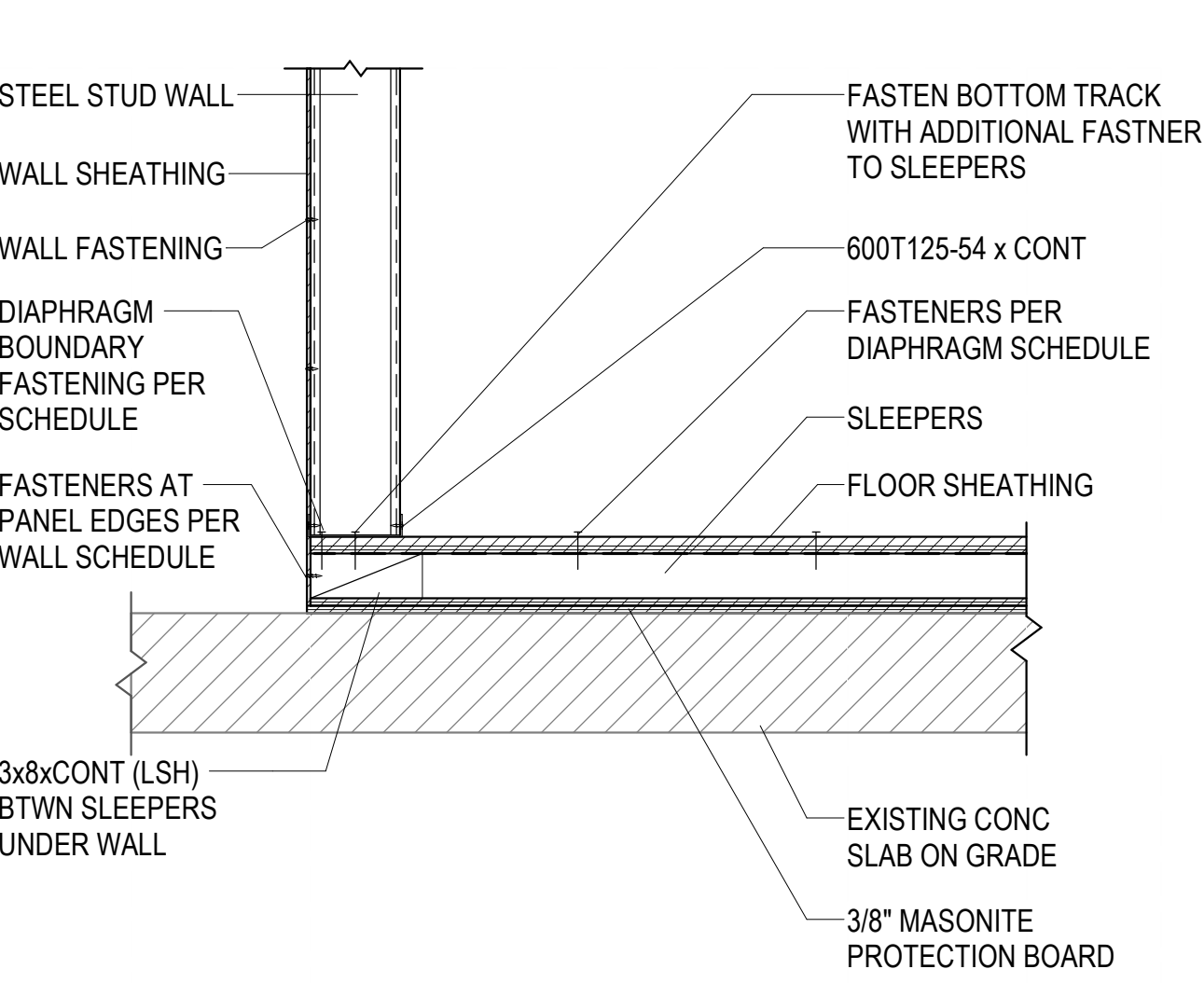
B1 STEEL FLOOR JOIST IN CONCRETE BASE
SW502/ NO SCALE



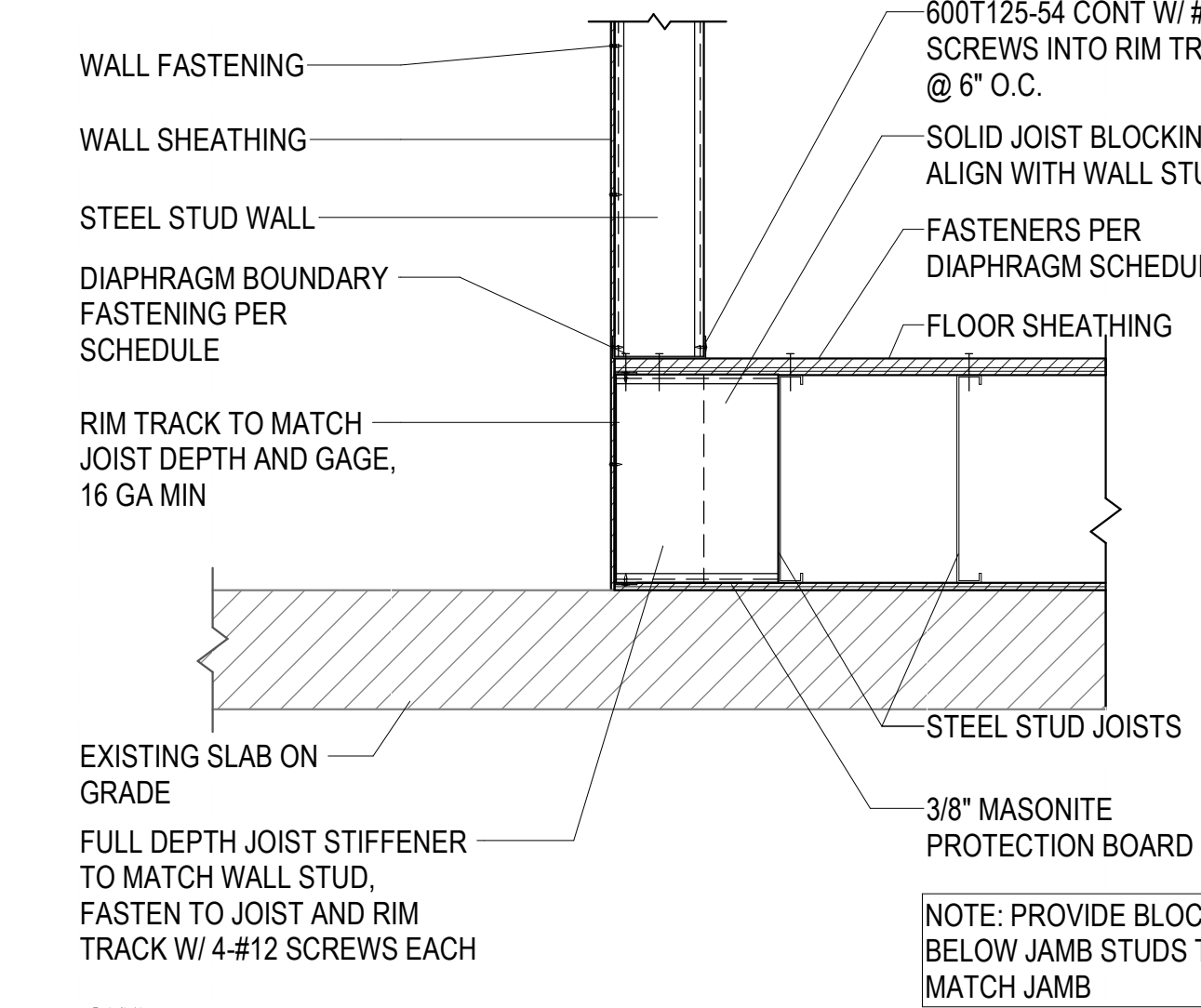
A1 FLOOR FRAMING WITH SLEEPERS AT WALL
SW502/ NO SCALE



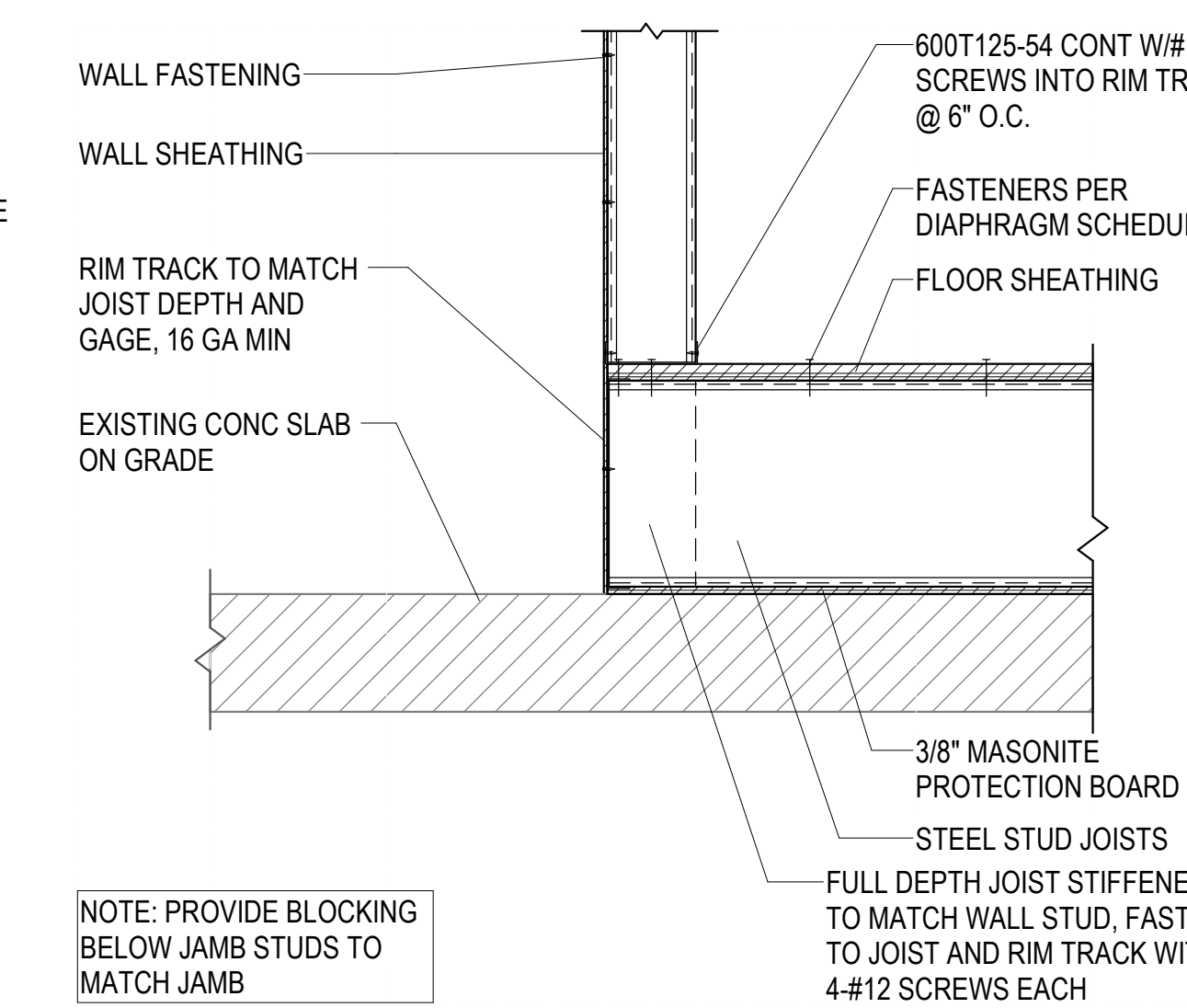
D2 CHANGE IN FLOOR JOIST AT WALL CONNECTION
SW502/ NO SCALE



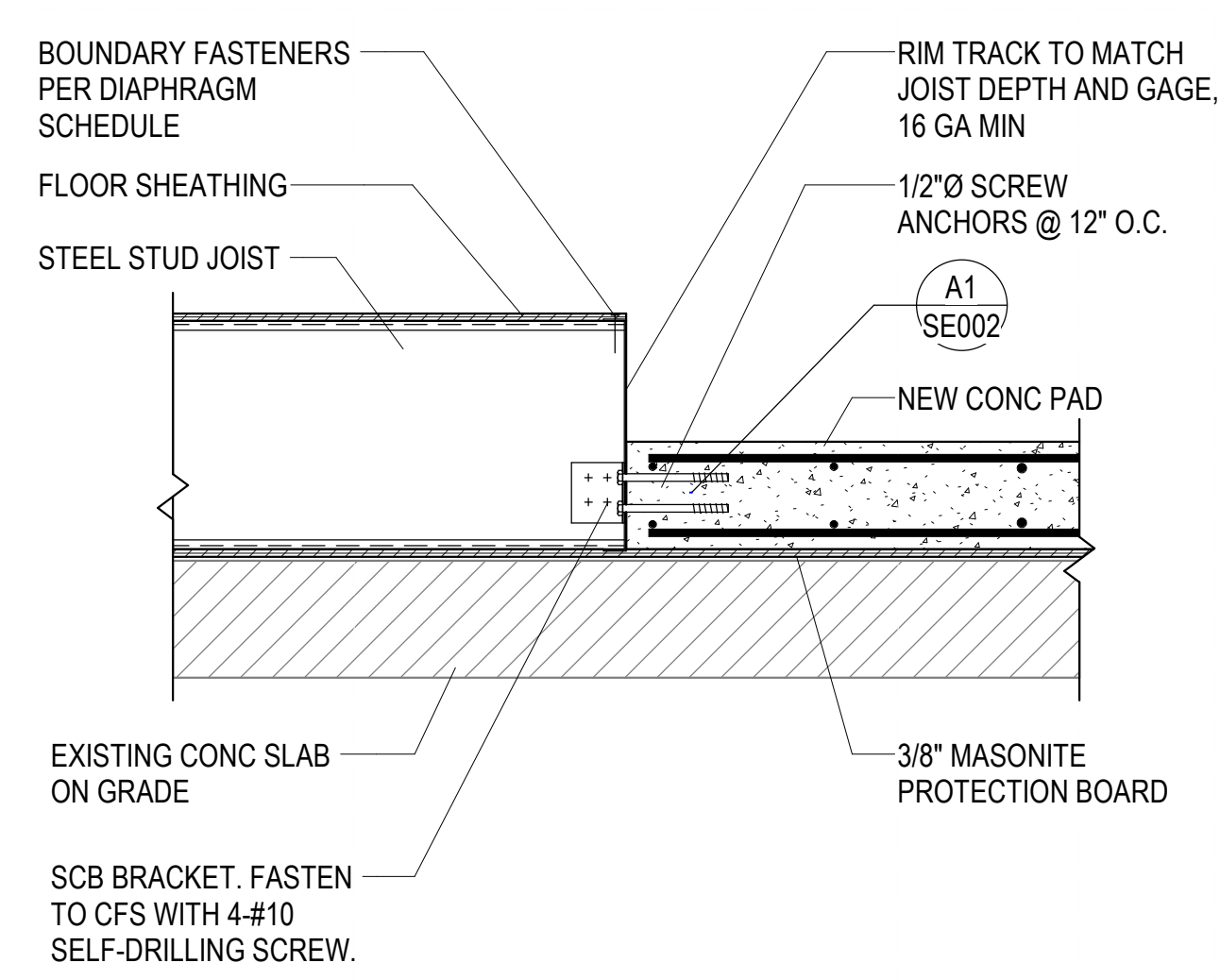
C2 FLOOR FRAMING W/ SLEEPERS AT WALL
SW502/ NO SCALE



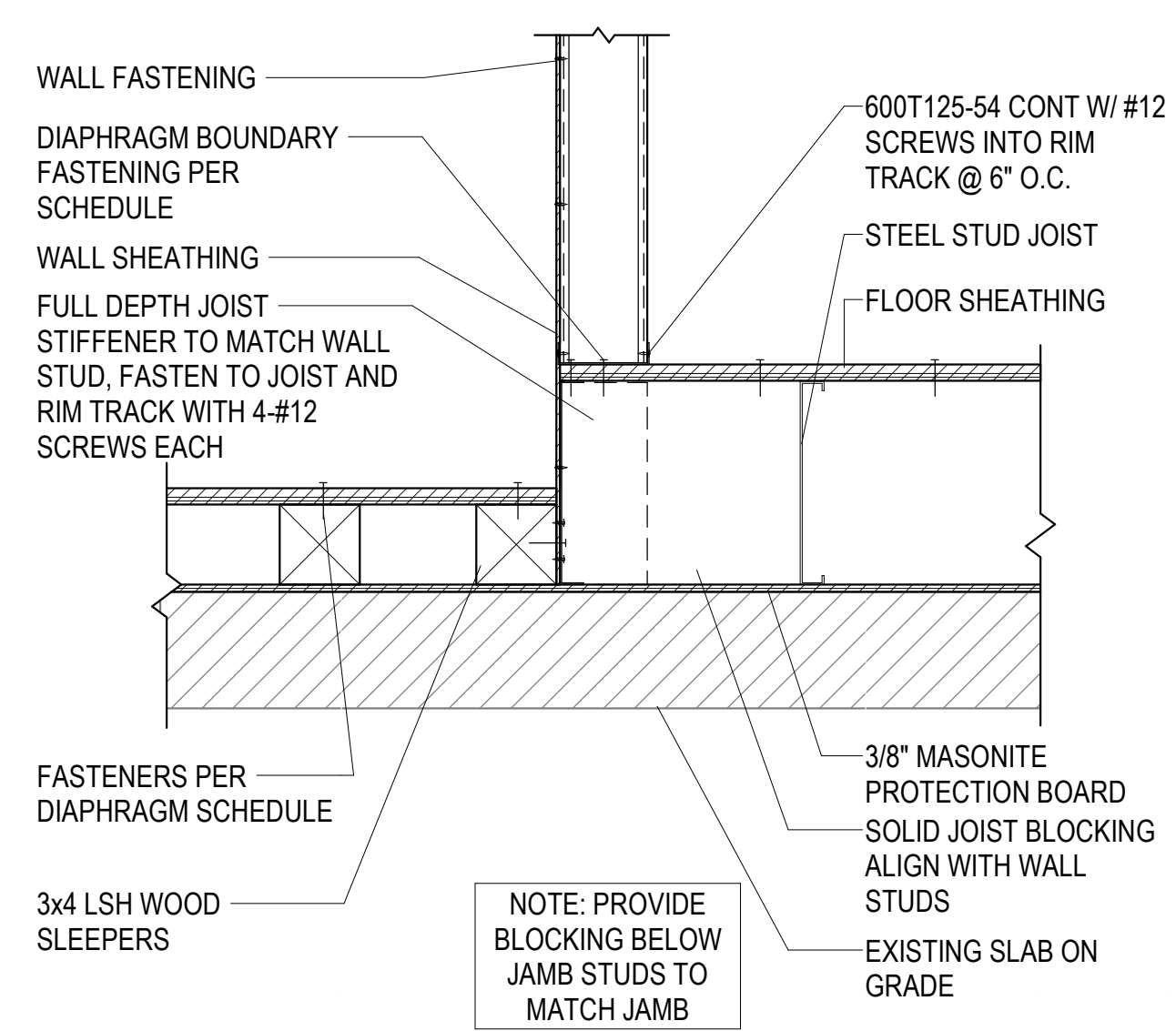
B2 STEEL FLOOR JOIST AT WALL CONNECTION
SW502/ NO SCALE



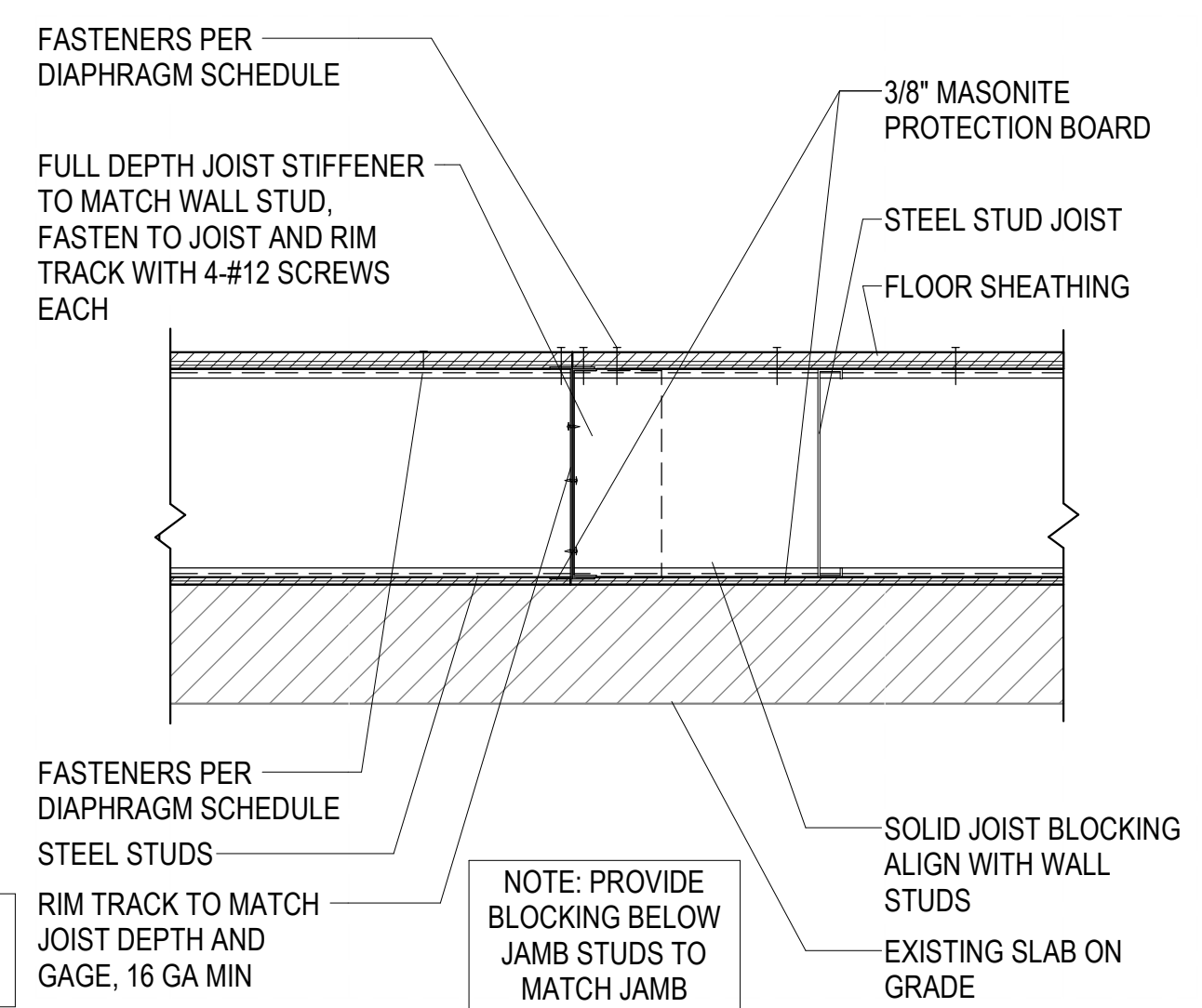
A2 STEEL STUD JOIST BEARING AT BASE
SW502/ NO SCALE



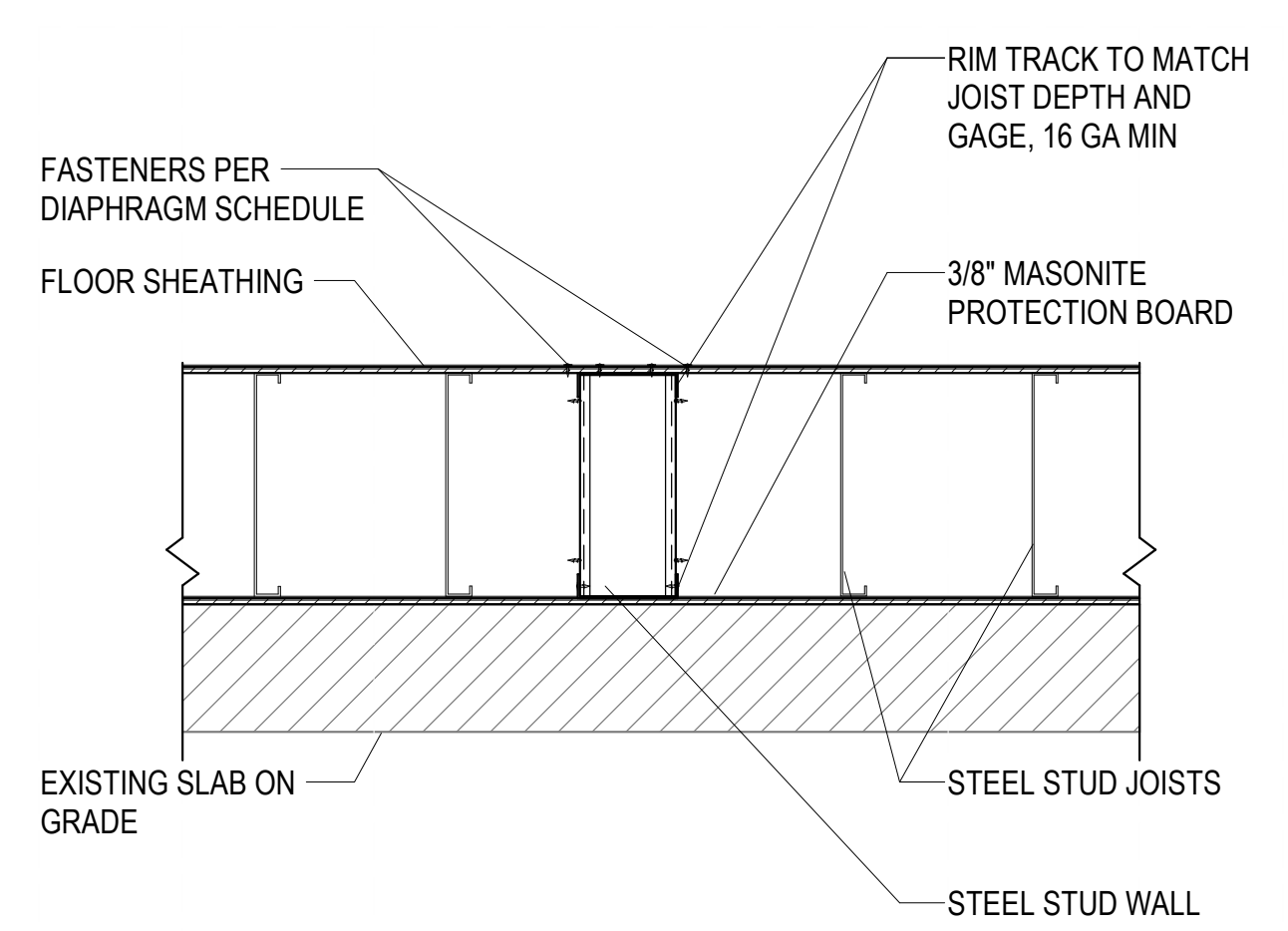
D3 STEEL JOIST AT NEW CONCRETE PAD
SW502/ NO SCALE



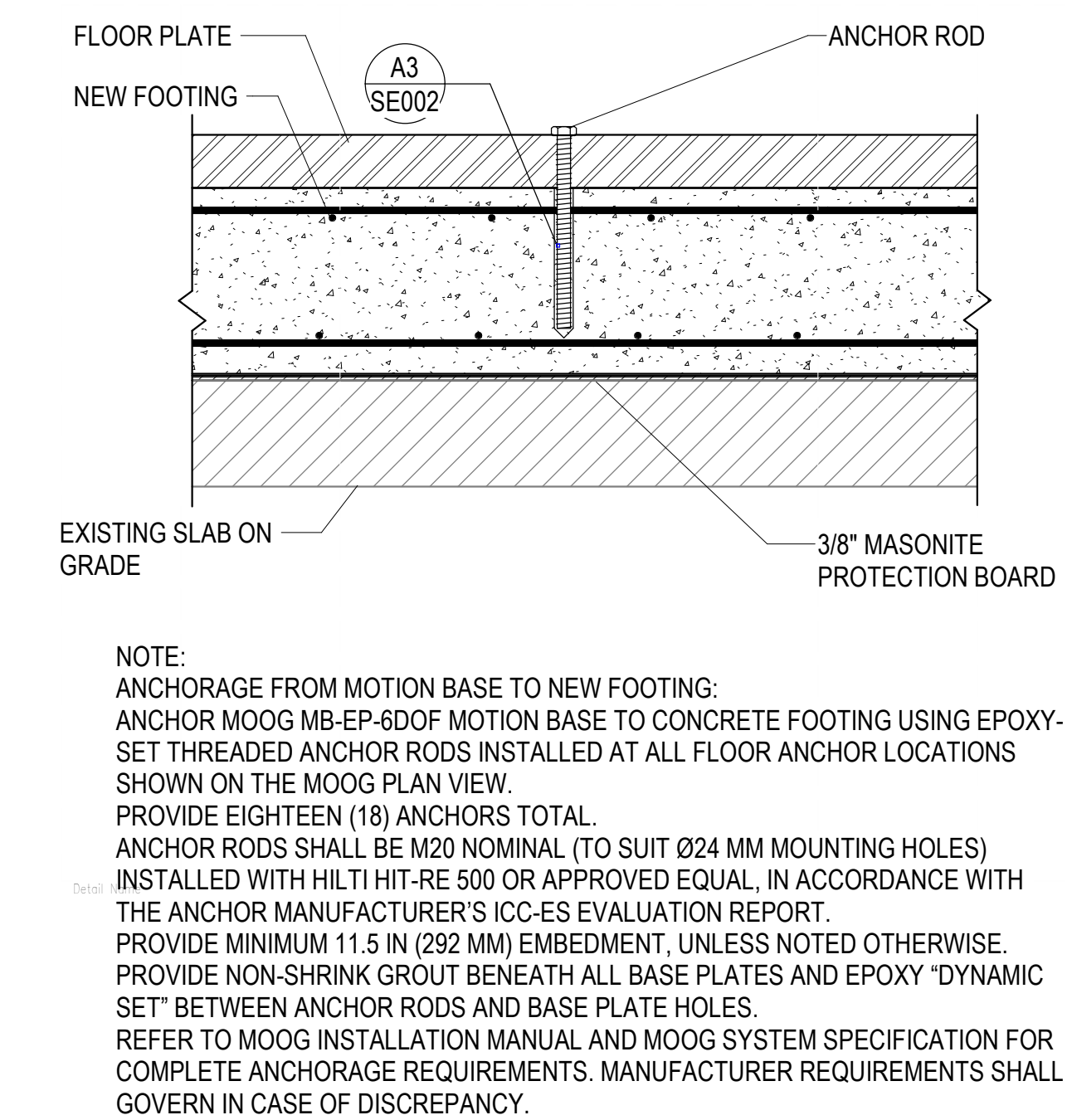
C3 CHANGE IN FLOOR JOIST AT WALL CONNECTION
SW502/ NO SCALE



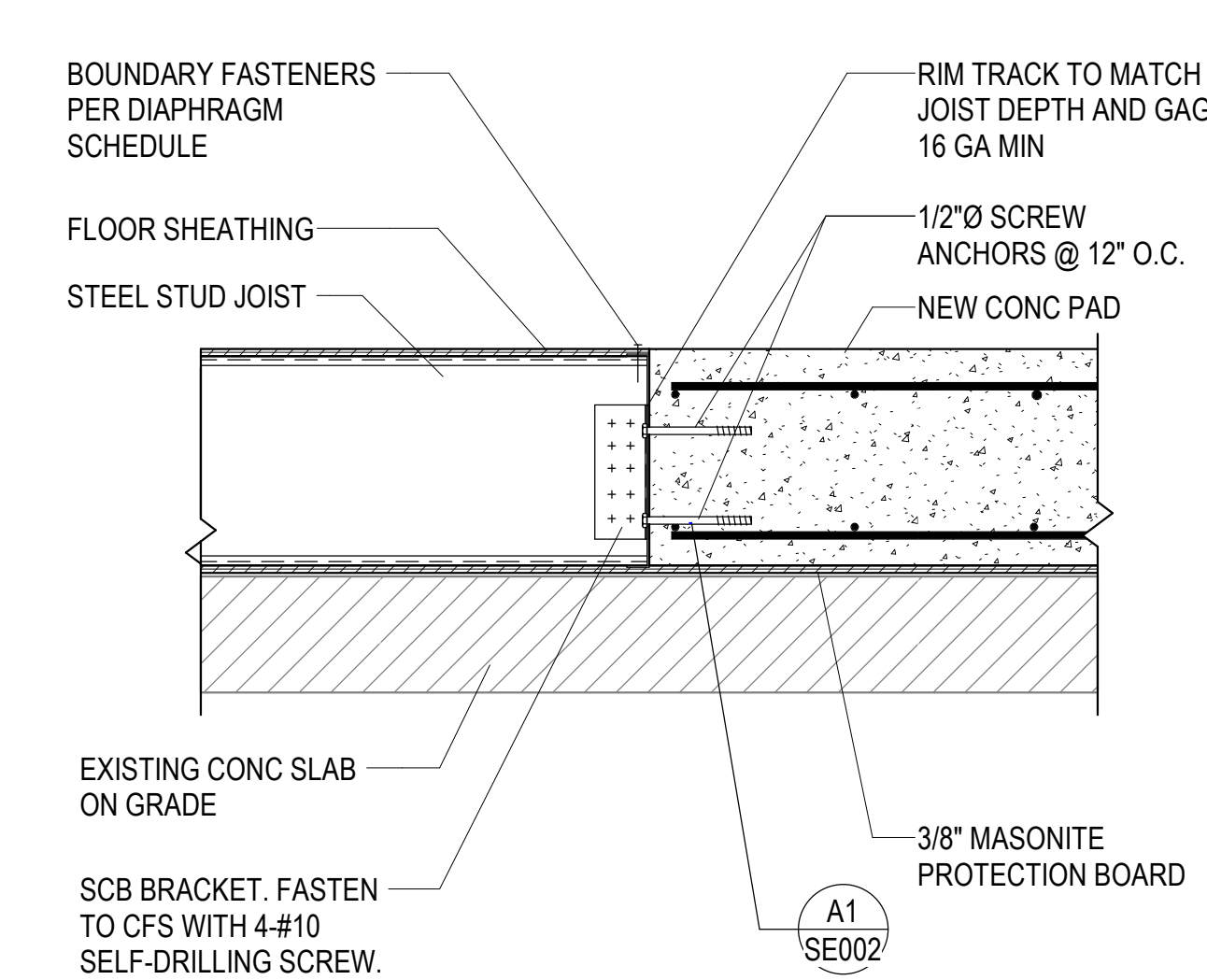
B3 CHANGE IN FLOOR JOIST IN OPENING
SW502/ NO SCALE



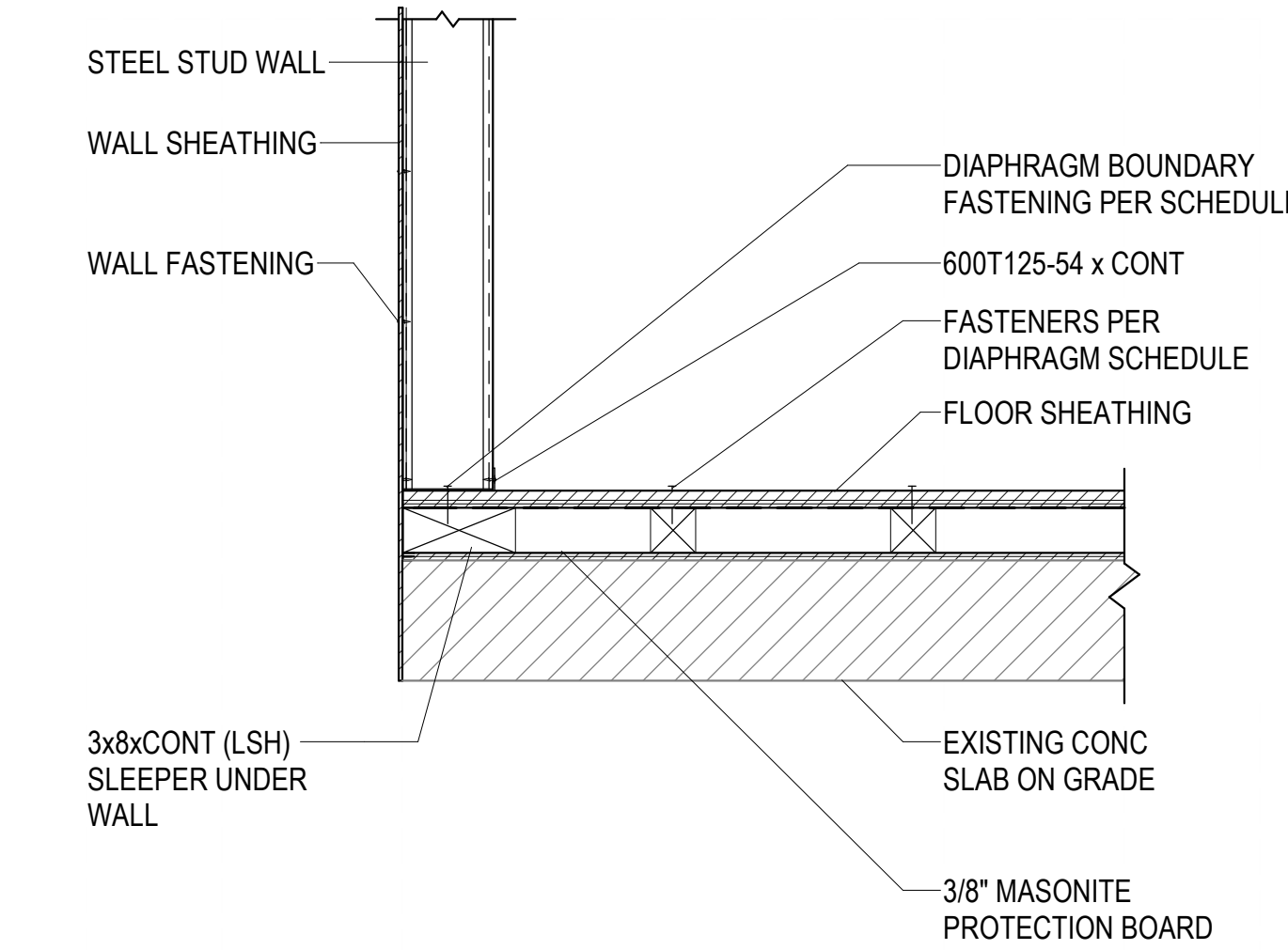
A3 FLOOR FRAMING AT OPENING
SW502/ NO SCALE



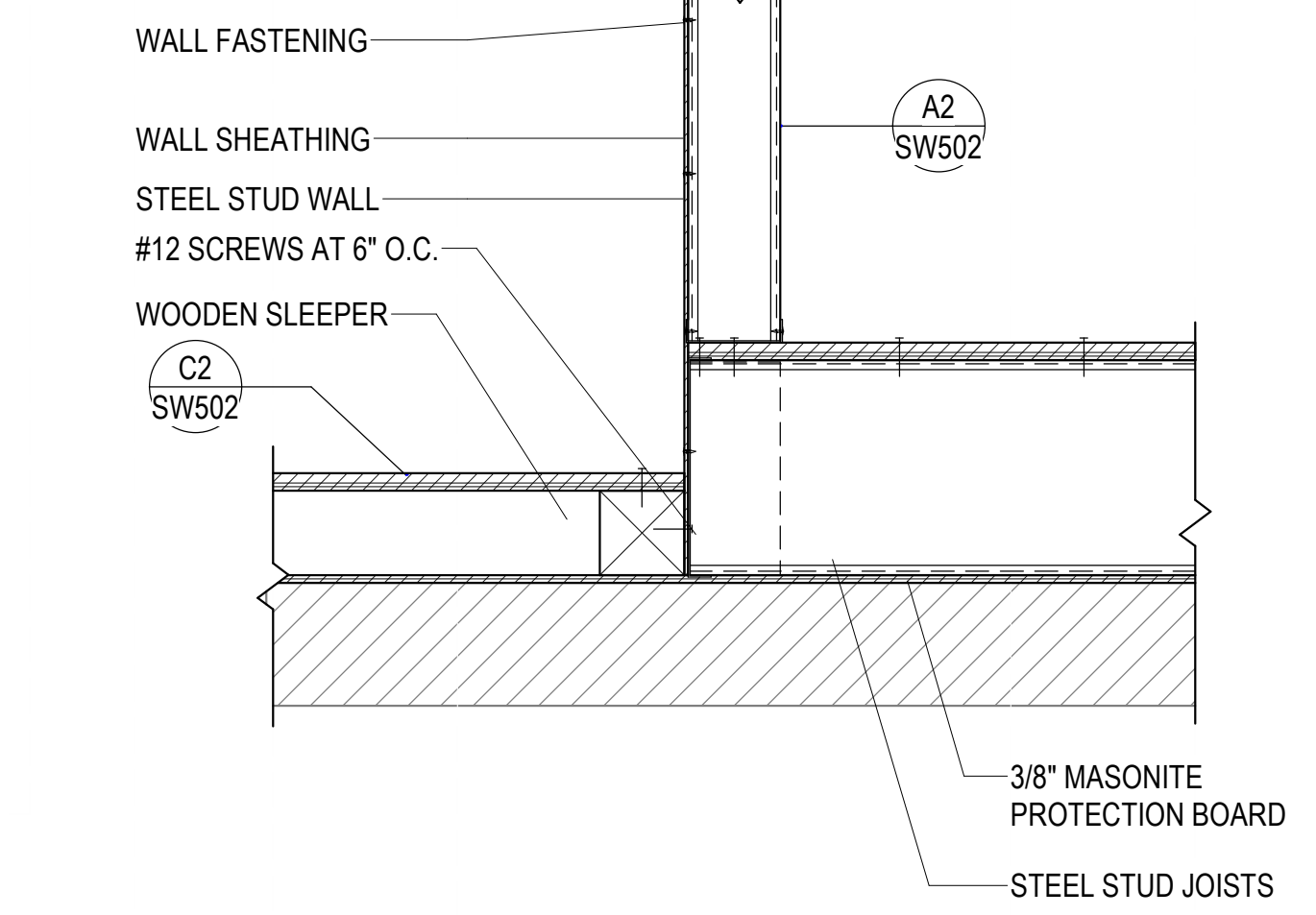
B4 EQUIPMENT ANCHORAGE DETAIL-MOTION BASE
SW502/ NO SCALE



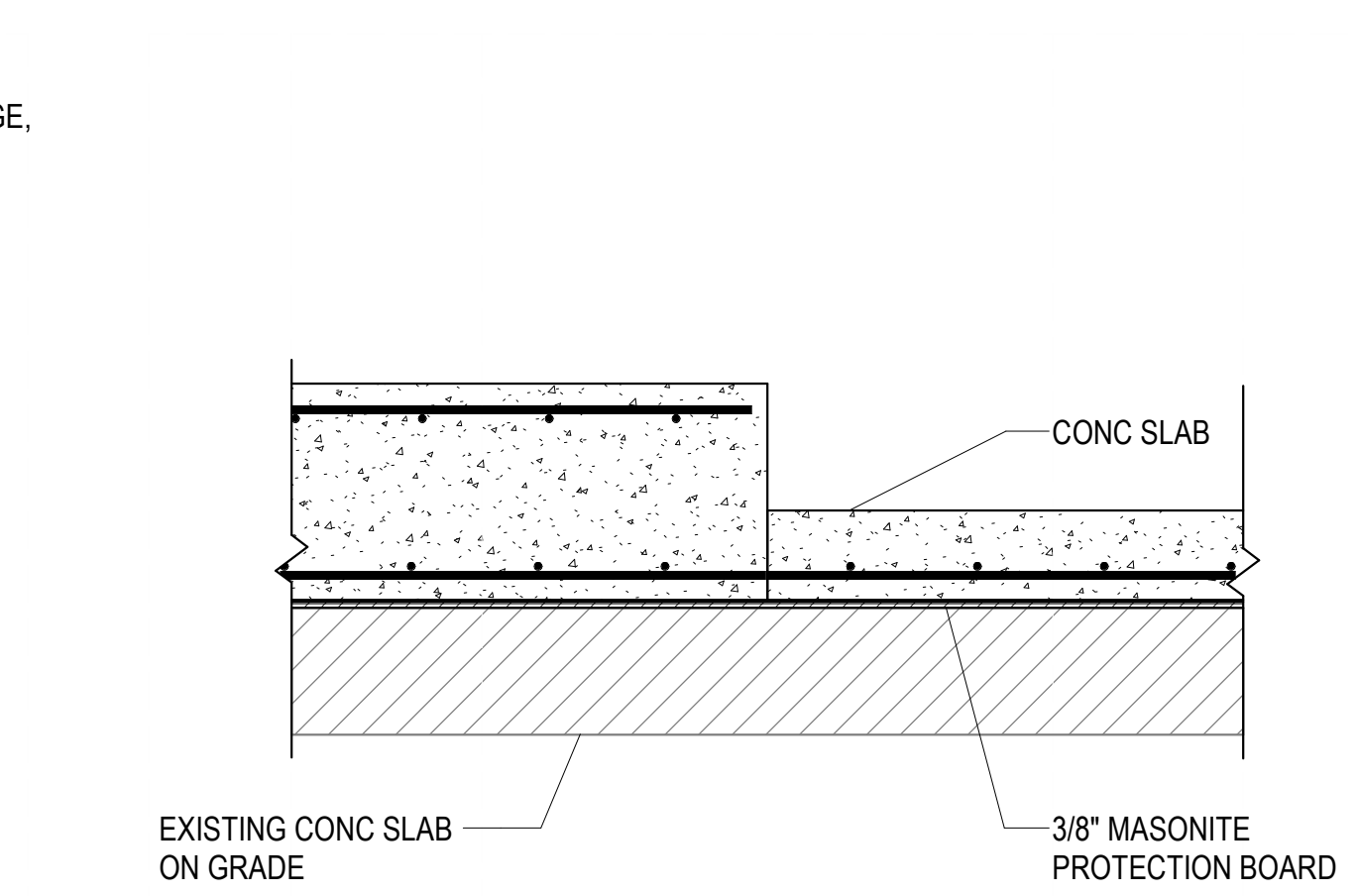
A4 STEEL JOIST AT NEW CONCRETE PAD
SW502/ NO SCALE



C5 FLOOR FRAMING WITH SLEEPERS AT WALL
SW502/ NO SCALE

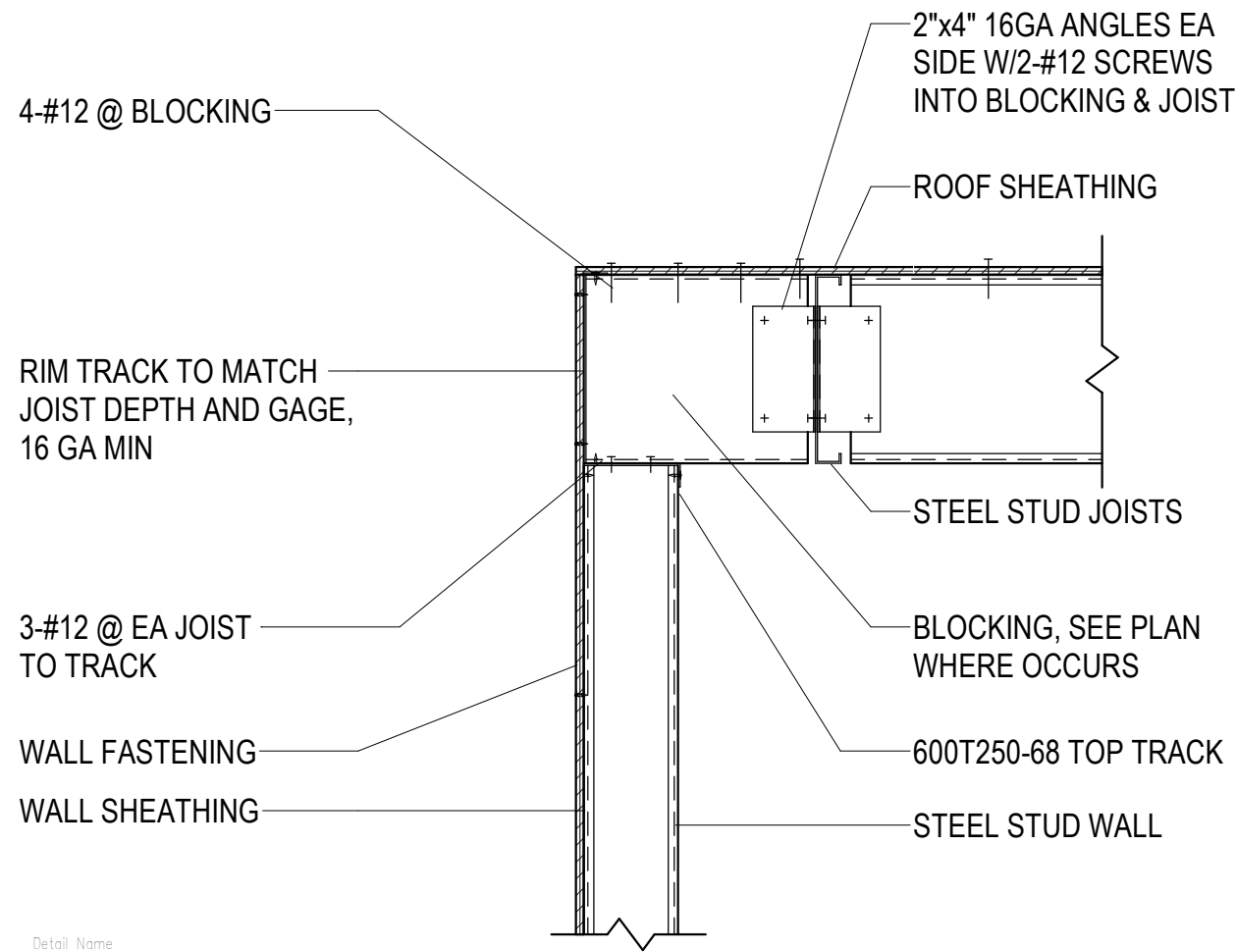


B5 CHANGE IN FLOOR JOIST AT WALL
SW502/ NO SCALE

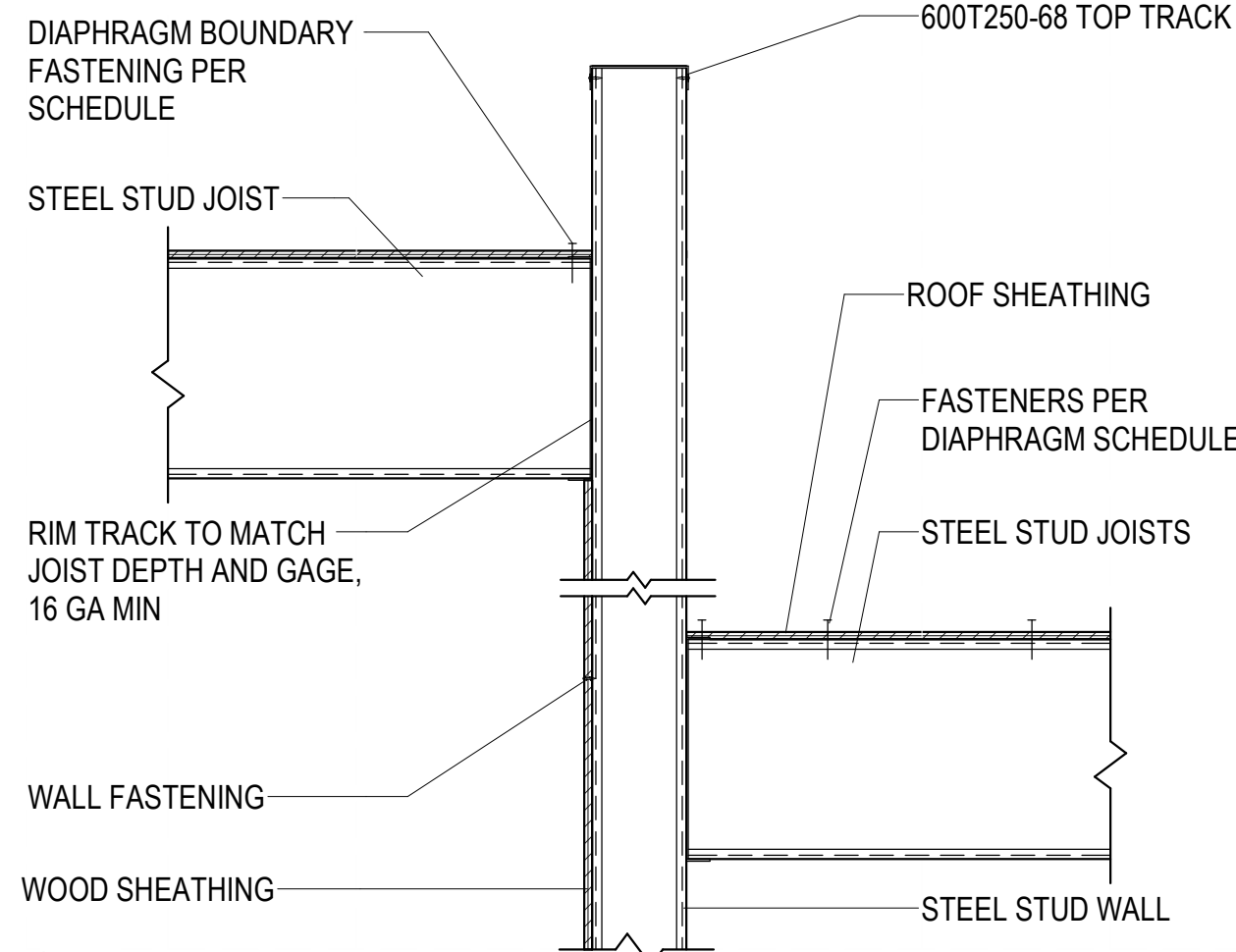


A5 CHANGE IN FOOTING ELEVATION
SW502/ NO SCALE

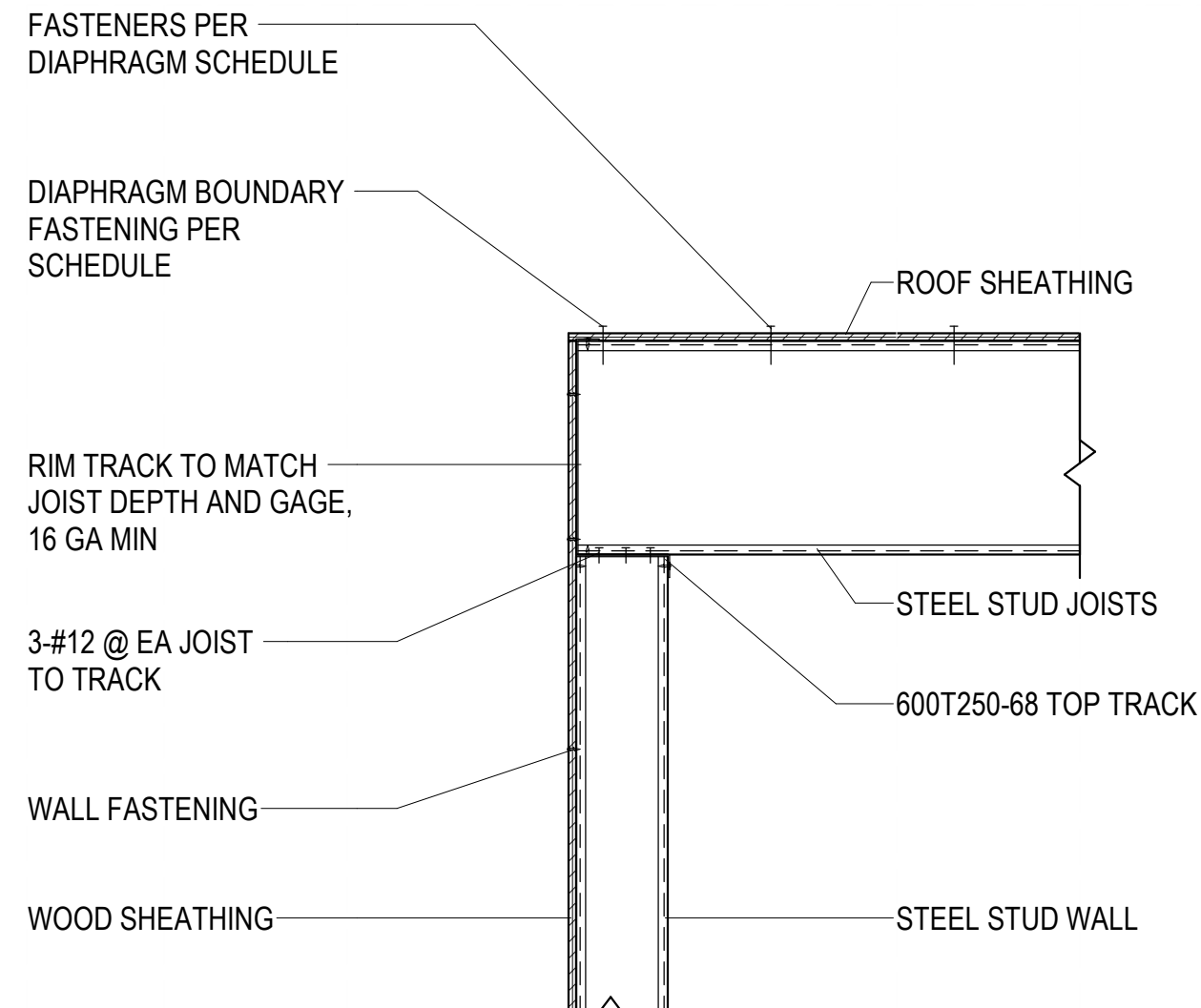
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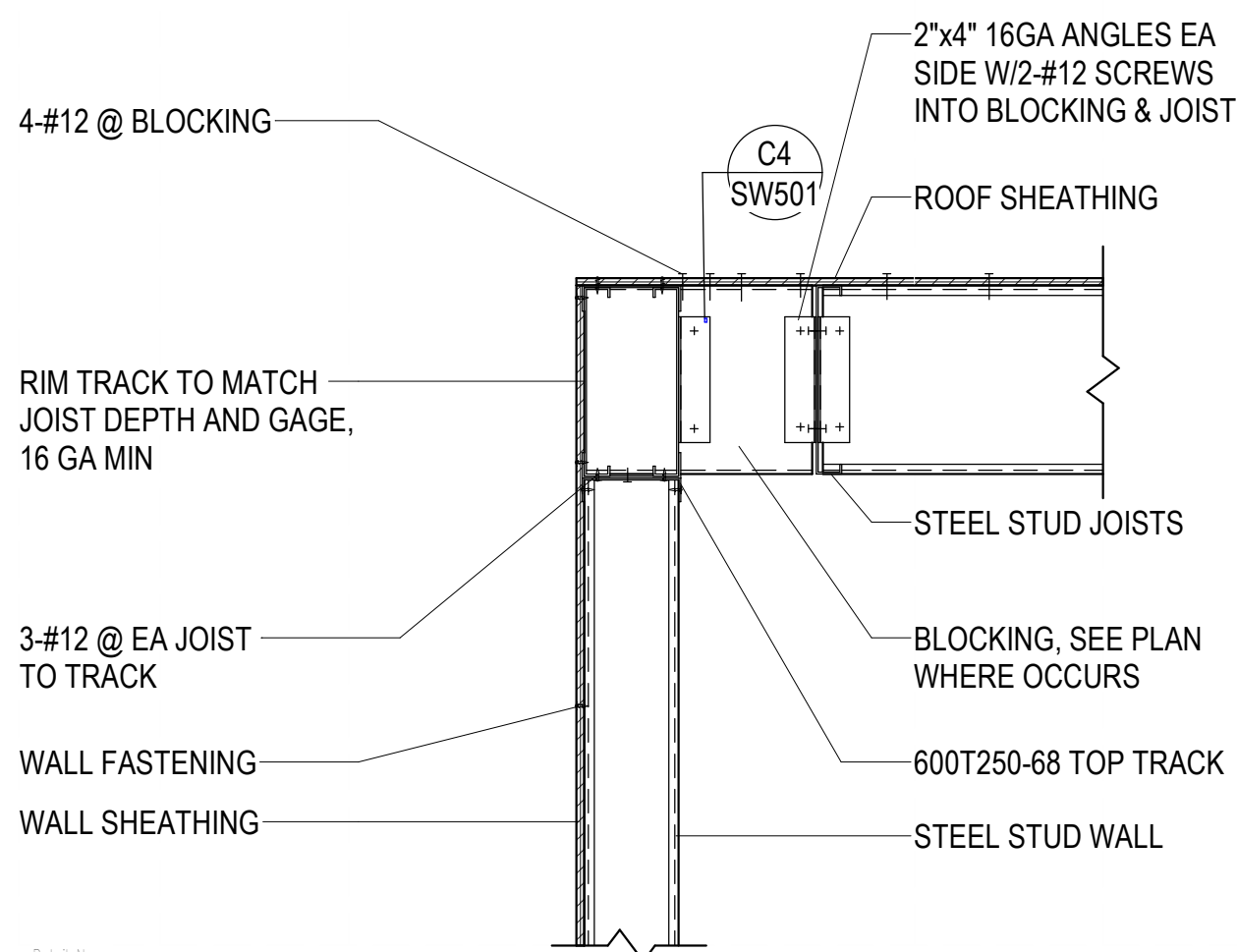
D3 BLOCKING AND JOISTS AT STEEL STUD WALL
NO SCALE



D4 STEEL STUD JOIST BEARING AT STEEL STUD WALL
NO SCALE



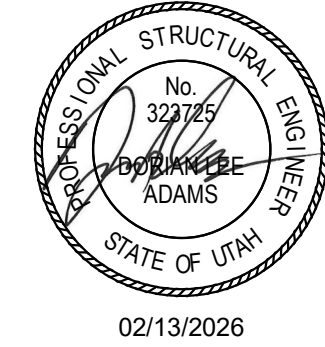
D5 STEEL STUD JOIST BEARING AT STEEL STUD WALL
NO SCALE



C3 HEADER ON TOP OF STEEL STUD WALL
NO SCALE



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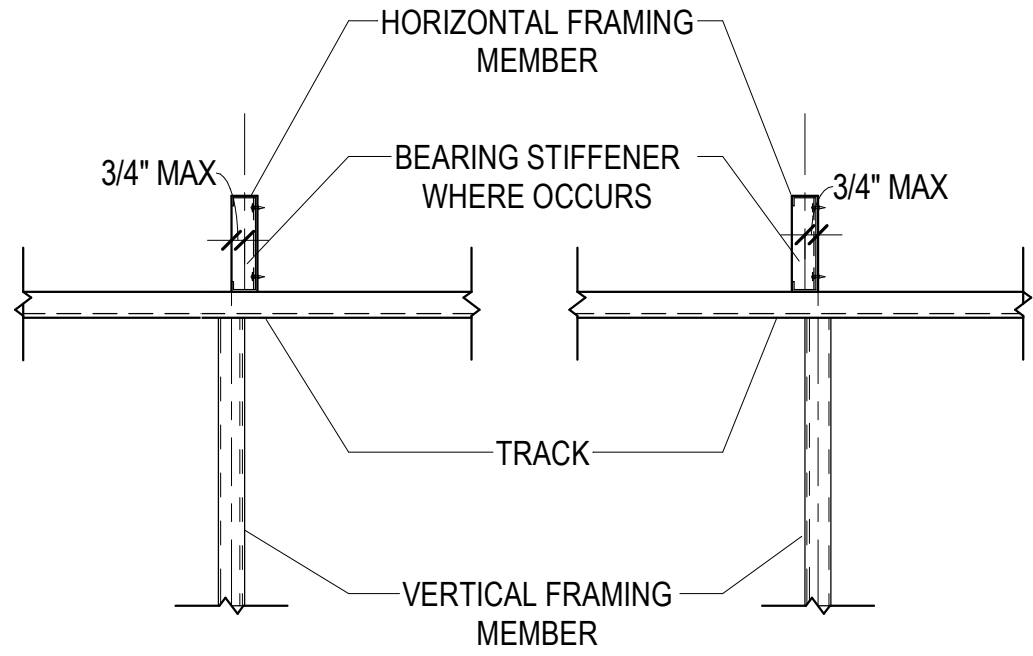
2284 E 140 N
Salt Lake City, UT 84116

NJRA Project # 25252.00
BID SET FEB 13, 2026

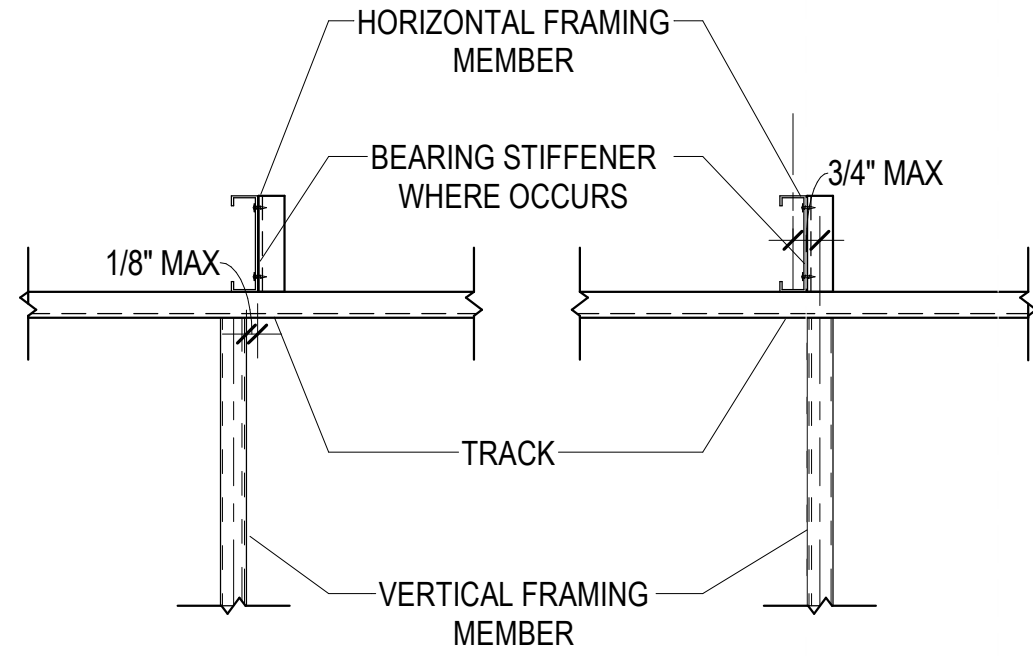
STEEL STUD
ROOF DETAILS

SW503

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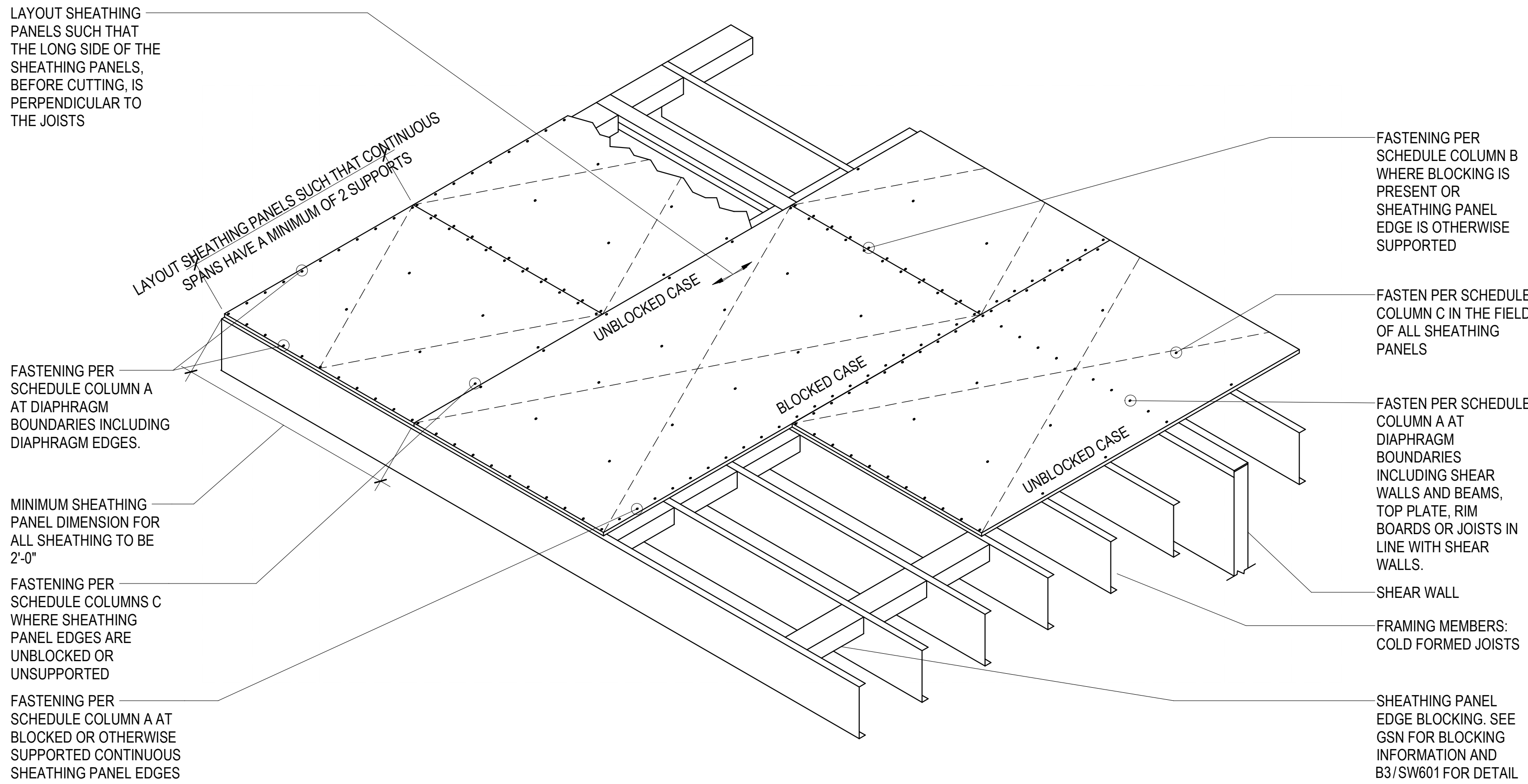
BEARING STIFFENER ON INSIDE WEB OF HORIZONTAL FRAMING MEMBER



BEARING STIFFENER ON OUTSIDE WEB OF HORIZONTAL FRAMING MEMBER

NOTE: PROVIDE 600T125-54 x 12" LONG BEARING STIFFENER AT BACK-TO-BACK JOIST CONDITIONS

D1 TYPICAL IN LINE FRAMING DETAIL
SW601/ NO SCALE

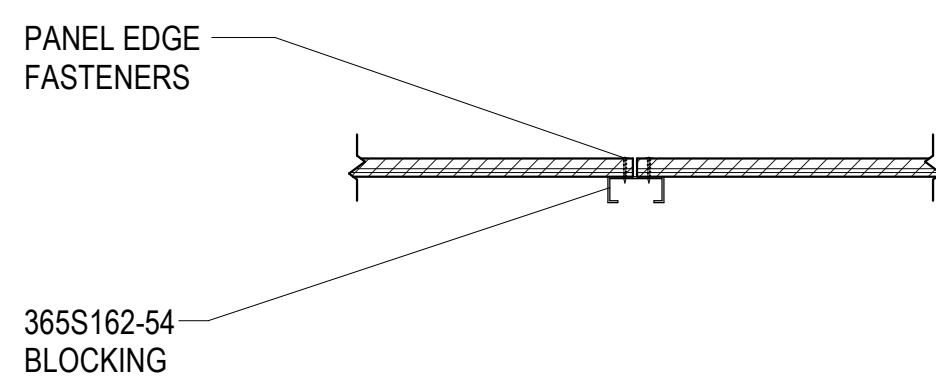


B1 WOOD DIAPHRAGM ISOMETRIC DETAIL
SW601/ NO SCALE

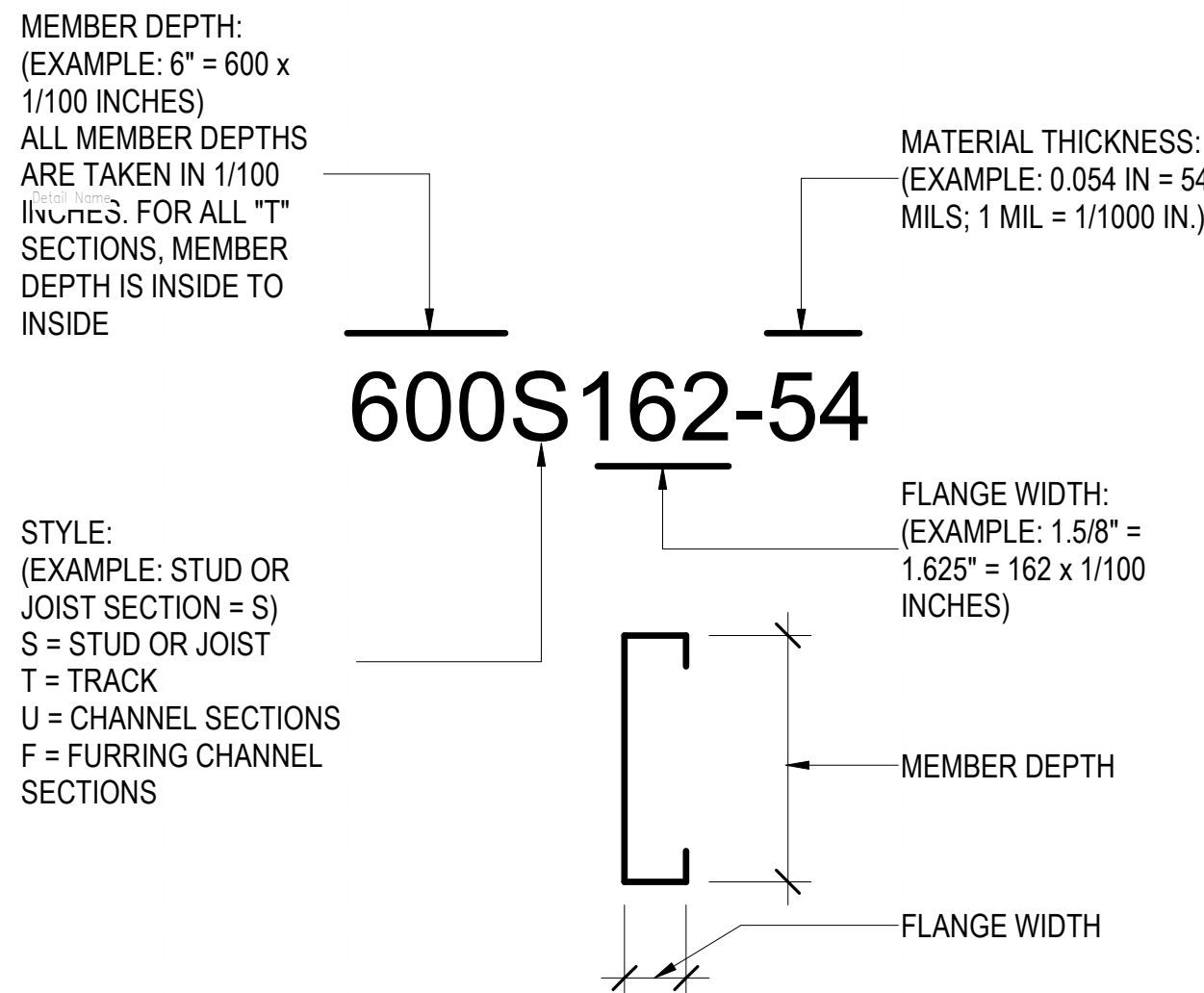
WOOD DIAPHRAGM SCHEDULE						
MARK	MINIMUM WOOD SHEATHING THICKNESS	WOOD SHEATHING EDGES	SCREW SPACING			MINIMUM SCREW SIZE
			A	B	C	
WD-1	1-1/8" T&G	BLOCKED	6"	6"	12"	#8
WD-2	15/32" STRUCT-1	NO BLOCKING REQ'D	6"	6"	12"	#8

NOTES:
1. SEE DETAIL B1/SW601 FOR TYPICAL LAYOUT OF STRUCTURAL PANEL DIAPHRAGMS.
2. WHERE PANEL EDGE BLOCKING NOT REQUIRED, FASTEN TO JOIST BLOCKING.
3. COMMON FASTENER SPACING CRITERIA:
A. CONTINUOUS WOOD SHEATHING PANEL EDGES AND DIAPHRAGM BOUNDARY EDGES.
DIAPHRAGM BOUNDARIES INCLUDE SHEAR WALLS, PERIMETER TRACKS, BEAMS, TOP PLATES, AND RIM BOARDS IN LINE WITH SHEAR WALLS.
B. ALL OTHER PANEL EDGES.
C. INTERMEDIATE PANEL SUPPORTS (IN FIELD FASTENING).
4. ALL WOOD STRUCTURAL PANELS SHALL BE A.P.A. RATED EXPOSURE 1.
5. USE SIMPSON PPHD011516B OR ENGINEER APPROVED EQUIVALENT FOR FIRE RETARDANT TREATED SHEATHING IF REQUIRED.

C1 WOOD DIAPHRAGM SCHEDULE
SW601/ NO SCALE



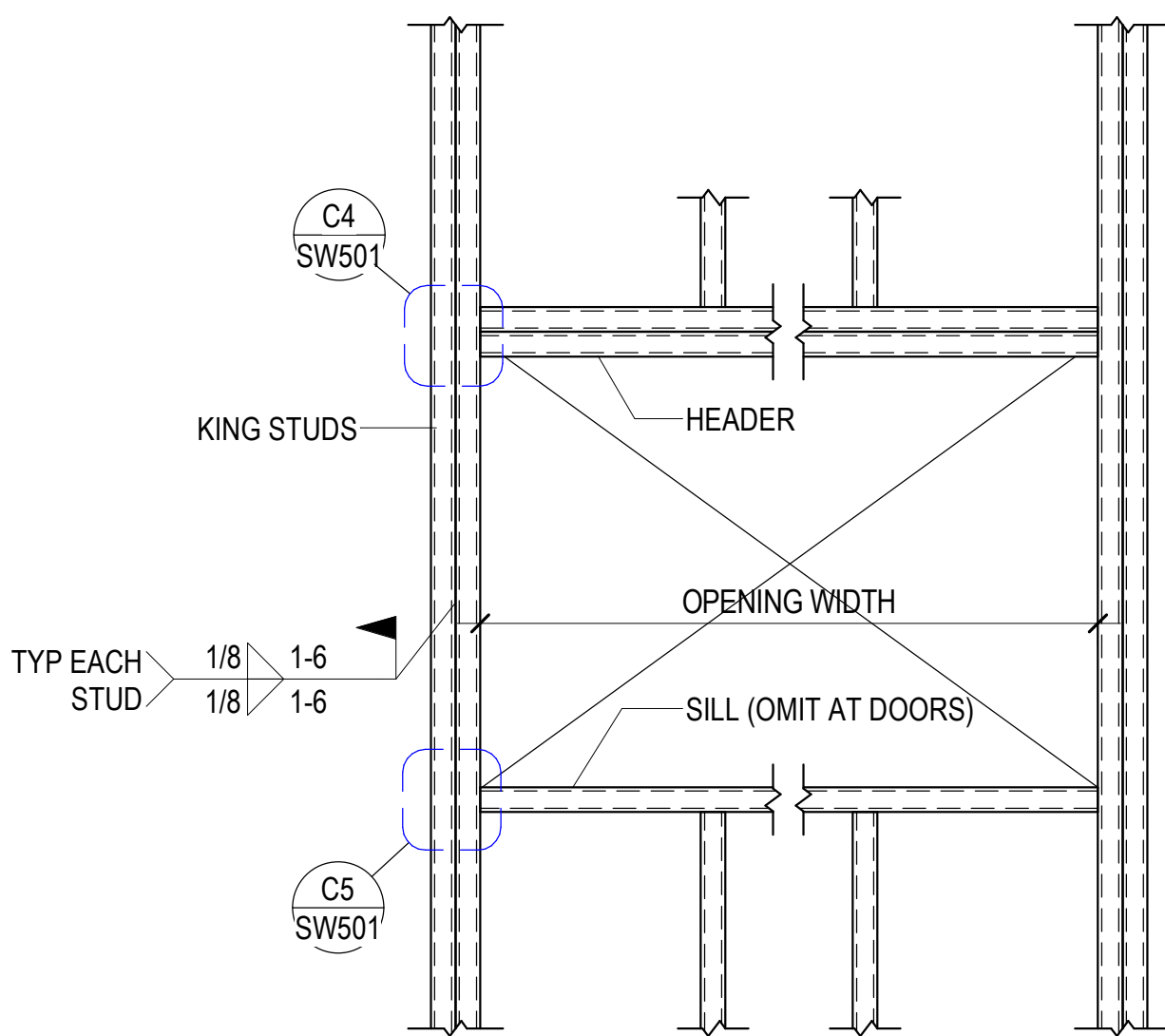
B3 TYPICAL EDGE BLOCKING DETAIL
SW601/ NO SCALE



A2 STEEL STUD MANUFACTURERS ASSOCIATION - NOMENCLATURE
SW601/ NO SCALE

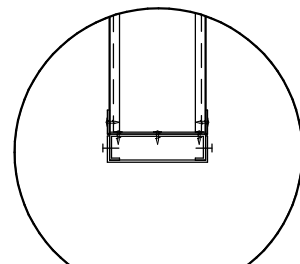
STEEL STUD WALL SCHEDULE														
MARK	WALL FRAMING				WALL ANCHORAGE			WALL SHEATHING	EDGE FASTENERS		FIELD FASTENERS		STUD BRACING REQUIRED	REMARKS
	STUDS	SPACING	BOTTOM TRACK	TOP TRACK	END STUDS	BOTTOM TRACK ANCHORAGE	END STUDS OR POST ANCHORAGE		SIZE	SPACING	SIZE	SPACING		
SSW-1	600S162-54	24"	600T125-54	600T125-54	600S162-54	TO CONCRETE FOOTING ONLY - DO NOT FASTEN TO EXIST SLAB ON GRADE 1/2"Ø Kwik-Bolt SCREW ANCHOR W/25" NOMINAL EMBEDMENT @12" O.C.	DO NOT ANCHOR TO EXIST CONCRETE SLAB	15/32 STRUCT-1 SHEATHING	#10	6" O.C.	#10	12" O.C.	HORIZONTAL BRIDGING @ 48" O.C. SEE A2/SW501	

NOTES:
1. ALL STUDS AND TRACK SHALL BE OF ASTM A1003 STRUCTURAL GRADE 50 TYPE H STEEL.
2. WHERE STUD MUST BE CUT DUE TO THE PLACEMENT OF ANCHOR BOLTS OR OTHER PRODUCTS, AN ADDITIONAL STUD SHALL BE INSERTED ALONG SIDE.
3. ALL PANEL EDGES SHALL BE SOLID BLOCKED PER DETAIL B1/SW601.
4. DISTANCE FROM PANEL EDGE TO SCREW SHALL BE NOT LESS THAN 3/8".
5. SHEATHING SHALL BE APPLIED WITH EDGES 1/8" APART AT SIDE JOINTS AND 1/16" APART AT END JOINTS.
6. ALL SCREWS SHALL BE #10 SELF TAPPING SCREWS W/FLAT HEAD AND A MINIMUM DIAMETER OF 0.3 INCHES UNO.
7. AT VERTICAL OFFSETS IN EXTERIOR STUD WALL, PROVIDE ADDITIONAL STAGGARED 600S162-54 STUD.
8. PROVIDE BRIDGING @ 4'-0" O.C. TYPICAL U.N.O. BRIDGING SHALL BE CAPABLE OF RESISTING A MOMENT OF 0.42k-in. SUBMIT BRIDGING SYSTEM FOR REVIEW.

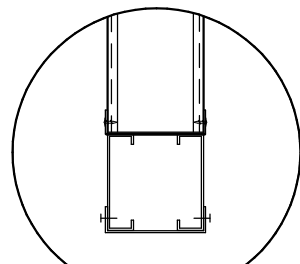


STEEL STUD WALL OPENING SCHEDULE						
WIDTH OF OPENING	JAMB			SILL		HEADER
	SIZE	TYPE	NO. OF KING STUDS	SIZE	SIZE	
UP TO 3'-6"	600S162-54	J1	1	--	600S162-54	H1
	600T162-54				600T162-54	
UP TO 6'-6"	(2) 600S162-54	J2	1	--	(2) 800S162-54	H2
	600T162-54				600T162-54	
34'-5"	(2) 600S162-54	J2	2	--	(2) 1400S162-118	H3
	600T162-54				(1) 600S162-54	
					(2) 1400T162-118	
					(3) 600T162-54	

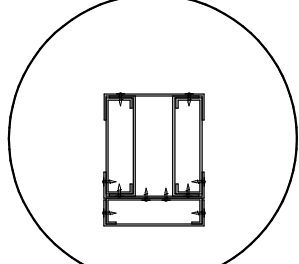
- NOTES:
1. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL OPENINGS IN STUD WALLS.
2. ALL STUD SIZE DESIGNATIONS ARE PER THE STANDARD ESTABLISHED BY THE STEEL STUD MANUFACTURER'S ASSOCIATION (SSMA) AND THE NORTH AMERICAN STEEL FRAMING ALLIANCE (NASFA).
3. AT CONTRACTORS OPTION, USE #12 SCREWS @ 12" O.C. TO ATTACH TRACK/OTHER STUDS TO JAMB/HEADER STUDS TYPICAL IN LIEU OF WELDING.
4. OTHER PROPRIETARY STUD FRAMING SYSTEMS MAY BE USED WITH WRITTEN APPROVAL BY THE STRUCTURAL ENGINEER.
5. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
6. PROVIDE BEARING STIFFENER FOR HEADER PER DETAIL D1/SW601.



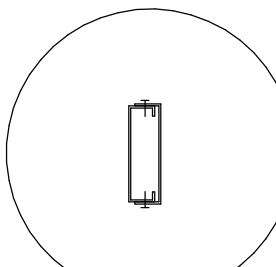
HEADER TYPE H1



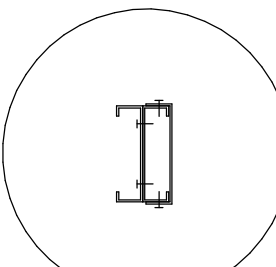
HEADER TYPE H2



HEADER TYPE H3



JAMB TYPE J1



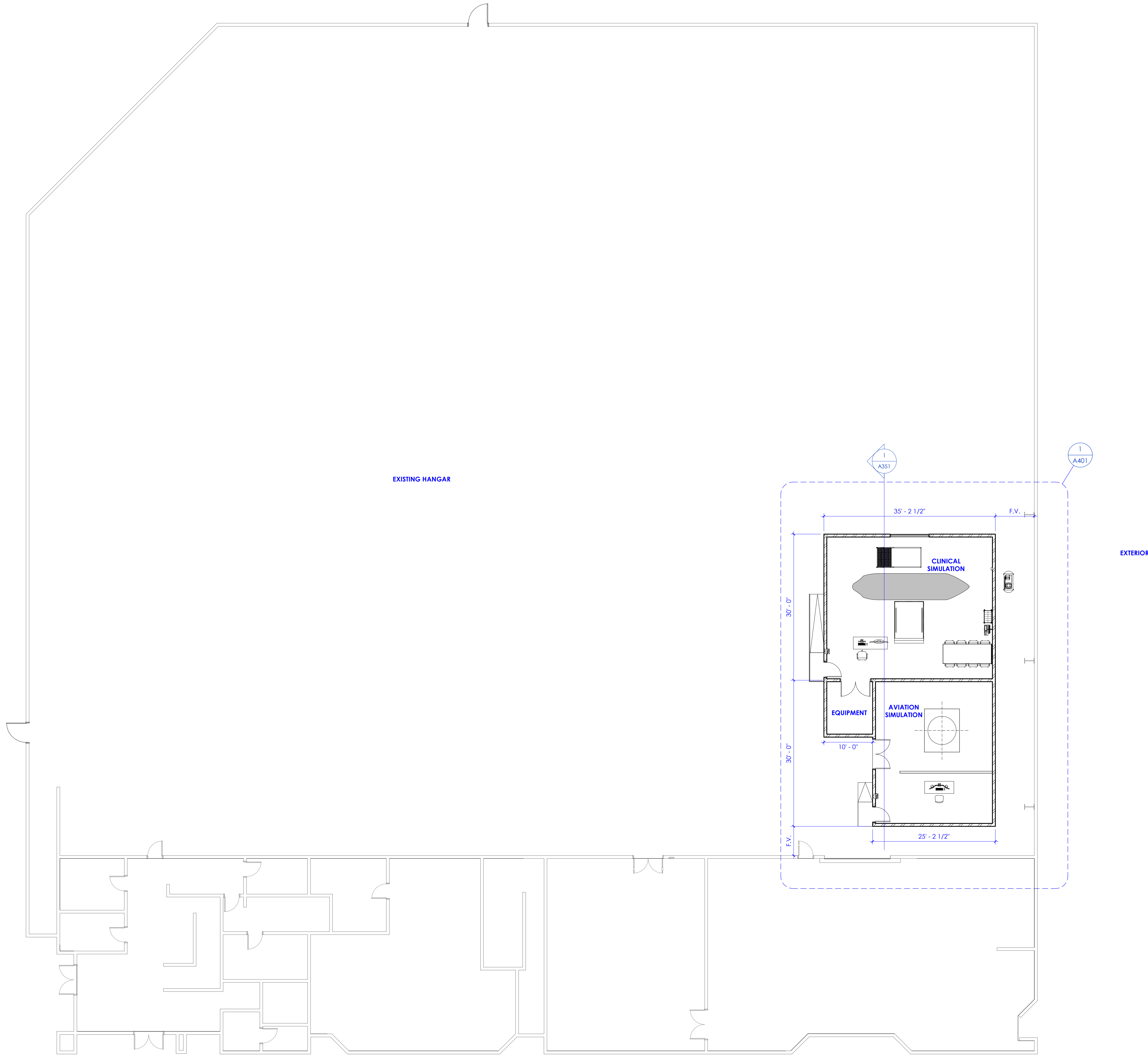
JAMB TYPE J2

S1
600T125-54

B4 TYPICAL STUD WALL FRAMING SCHEDULE WITH FRAMED OPENING DETAIL
SW601/ NO SCALE

2/23/2026 11:37:10 PM

1 Floor Plan Level 1
SCALE: 1" = 10'-0"



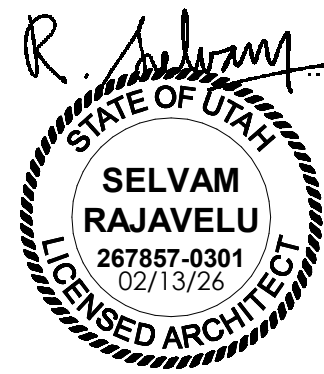
KEYED NOTES

GENERAL NOTES

- A. SEE SHEET G003 AND G005 FOR SYMBOLS, GENERAL NOTES AND LEGEND.
- B. SEE SHEET A505A FOR CABINET LEGEND.
- C. SEE SHEET A601A FOR DOOR SCHEDULE.
- D. SEE SHEET A602A FOR WINDOW SCHEDULE.
- E. SEE SHEET A603A FOR FINISH SCHEDULE AND GENERAL NOTES.



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Intermountain Health
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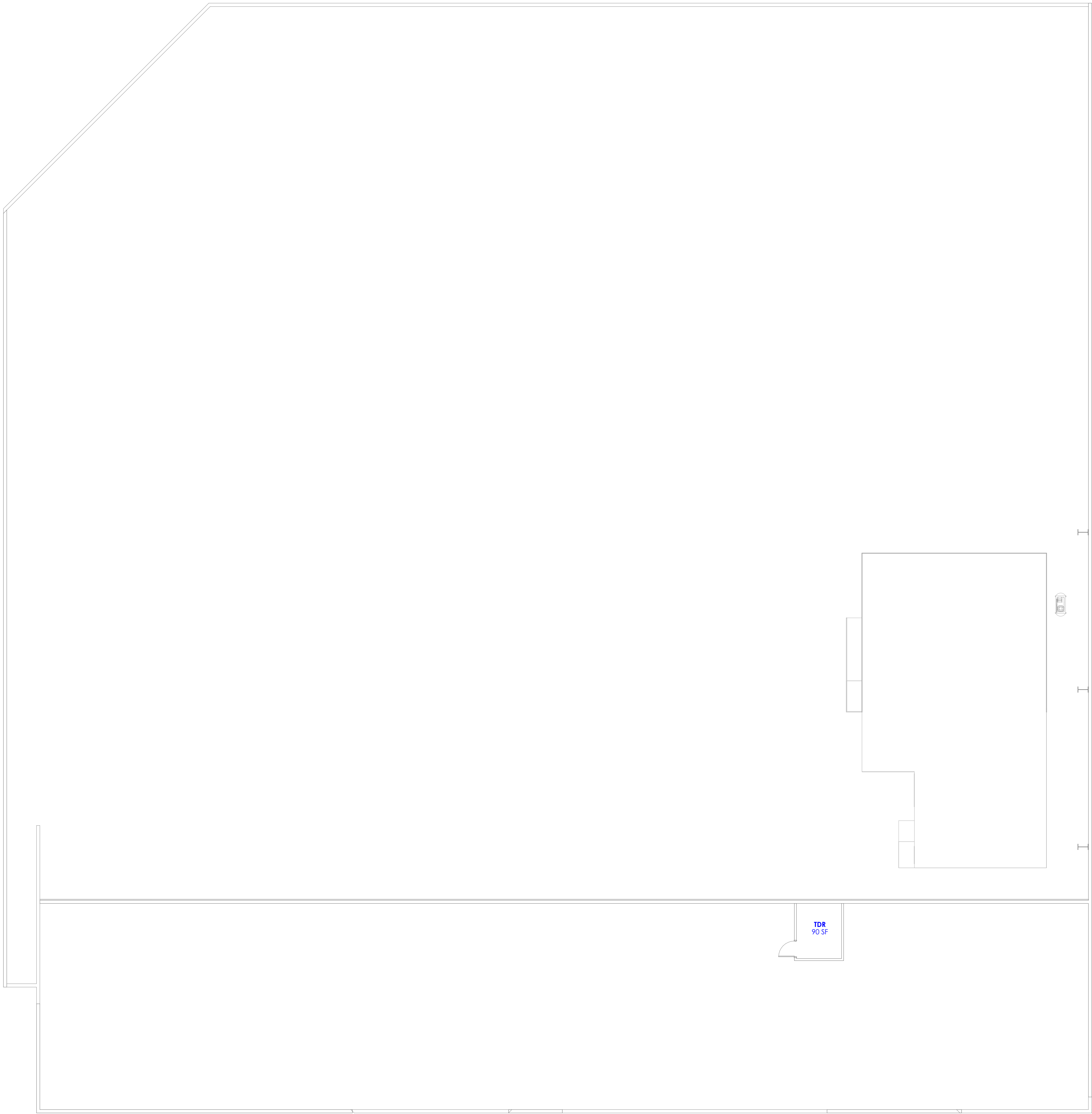
Floor Plan
Level 1 -
Overall

A113

2/23/2026 11:37:14 PM

1 Floor Plan Level 3

SCALE: 1" = 10'-0"



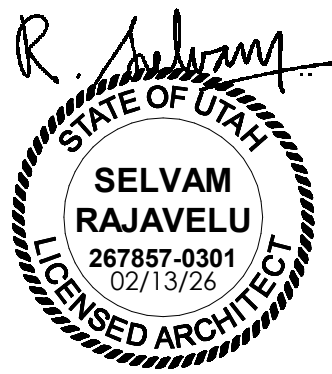
KEYED NOTES

GENERAL NOTES

- A. SEE SHEET G003 AND G005 FOR SYMBOLS, GENERAL NOTES AND LEGEND.
- B. SEE SHEET A505A FOR CABINET LEGEND.
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- D. SEE SHEET A602A FOR WINDOW SCHEDULE.
- E. SEE SHEET A603A FOR FINISH SCHEDULE AND GENERAL NOTES.



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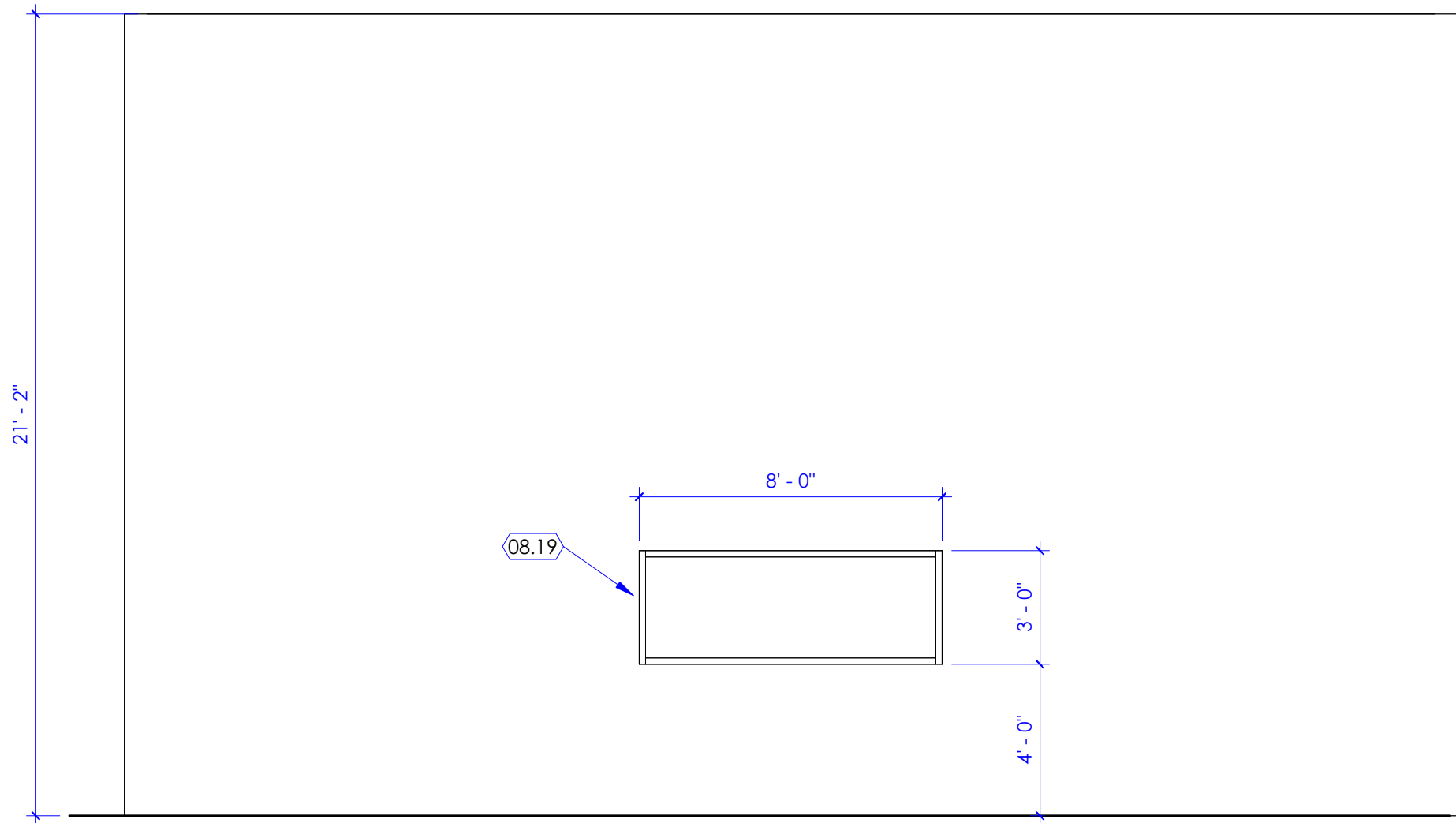
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Floor Plan
Level 3 -
Overall

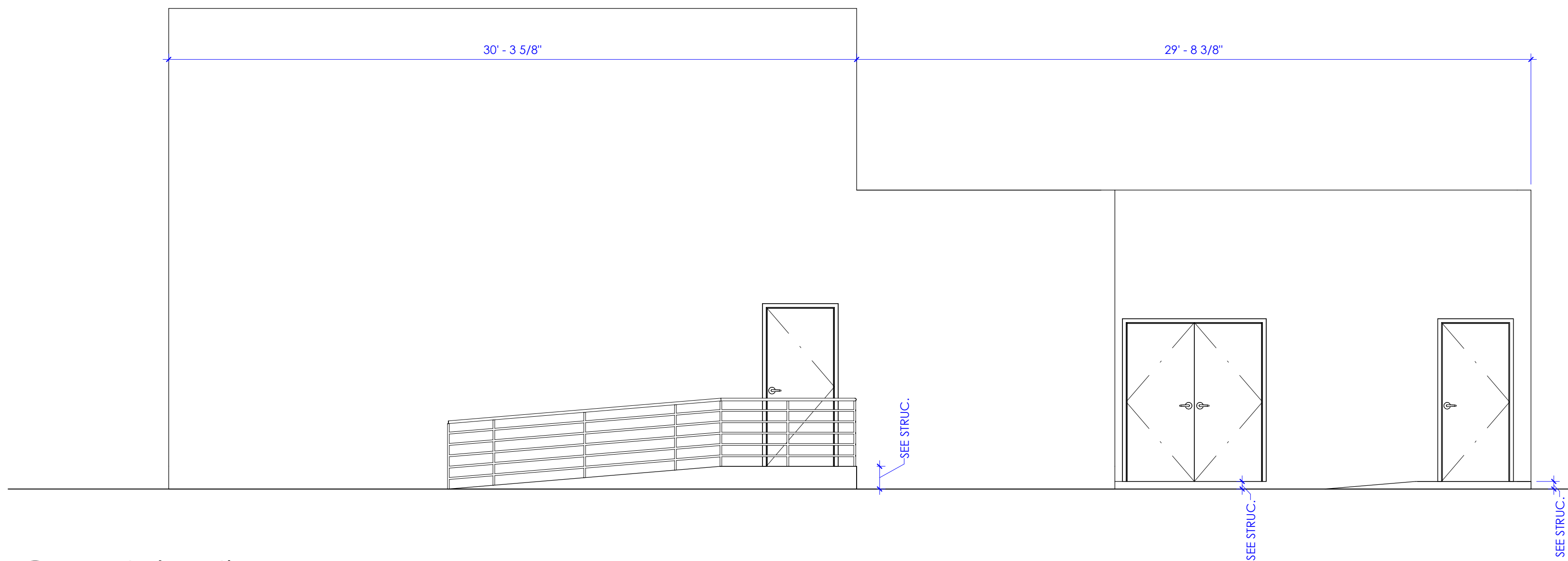
A120



2/23/2026 11:37:18 PM



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



2 West Elevation
SCALE: 1/4" = 1'-0"

KEYED NOTES

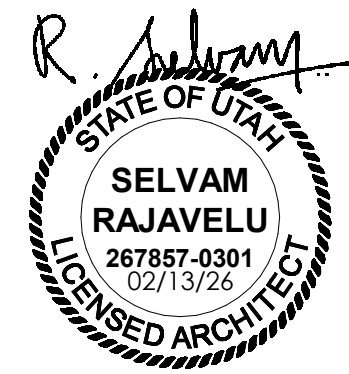
08.19 ALUMINUM-FRAMED STOREFRONT SYSTEM WITH 1/4" TEMPERED GLAZING. WINDOW SYSTEM SHALL BE 2" X 4 1/2" TYPE FRAMES. GLAZING SHALL BE OFF-CENTERED (OFFSET SYSTEM). FRAMES SHALL BE CLEAR ANODIZED FINISH. PROVIDE HEAVY DUTY FRAMES AROUND DOORS.

GENERAL NOTES

- A. SEE SHEET G003 AND G005 FOR SYMBOLS, GENERAL NOTES AND LEGEND.
- B. SEE SHEET A505A FOR CABINET LEGEND.
- C. SEE SHEET A601A FOR DOOR SCHEDULE.
- D. SEE SHEET A602A FOR WINDOW SCHEDULE.
- E. SEE SHEET A603A FOR FINISH SCHEDULE AND GENERAL NOTES.



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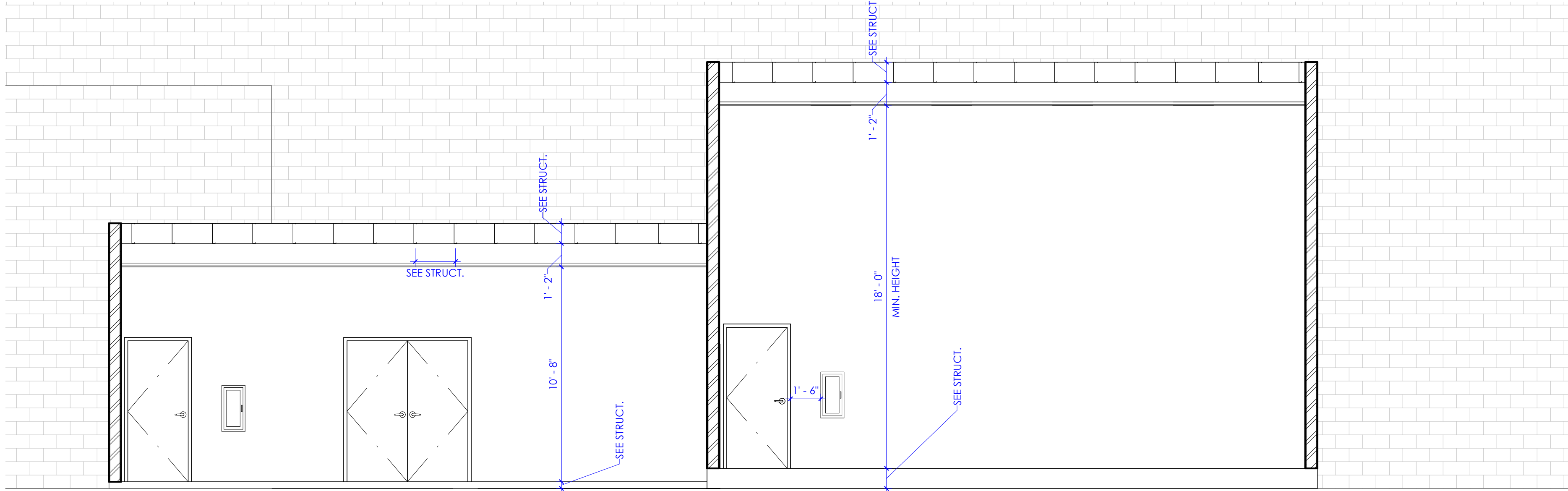
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Exterior
Elevations -
Overall

A202

VIEW & PRINT THIS SHEET IN COLOR FOR CLARITY



1 Life Flight Simulator

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

KEYED NOTES

GENERAL NOTES

- A. SEE SHEET G003 AND G005 FOR SYMBOLS, GENERAL NOTES AND LEGEND.
- B. SEE SHEET A505A FOR CABINET LEGEND.
- C. SEE SHEET A601A FOR DOOR SCHEDULE.
- D. SEE SHEET A602A FOR WINDOW SCHEDULE.
- E. SEE SHEET A603A FOR FINISH SCHEDULE AND GENERAL NOTES.

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Wall Sections

A351

NJRA
ARCHITECTS

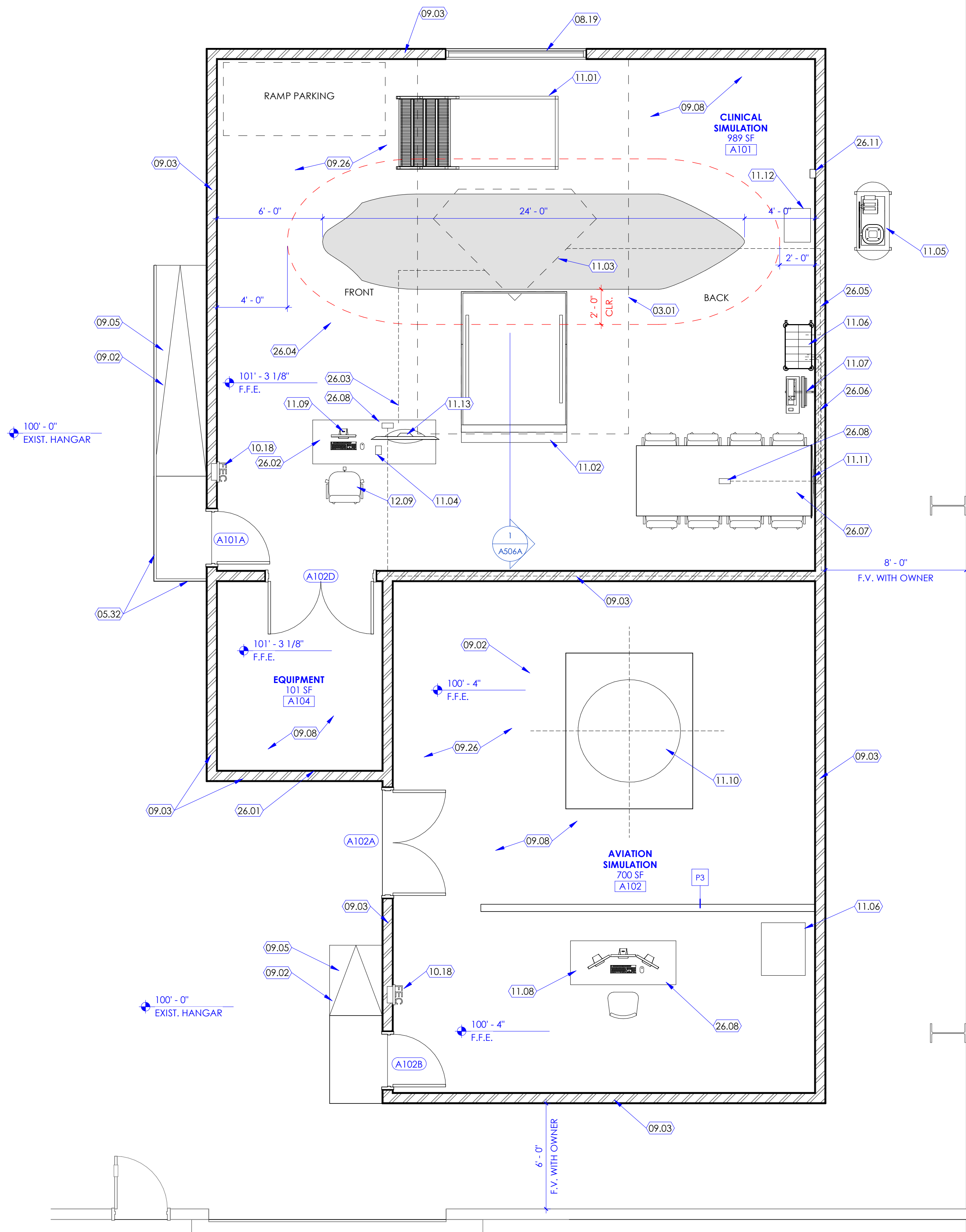
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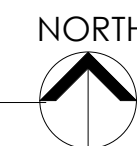
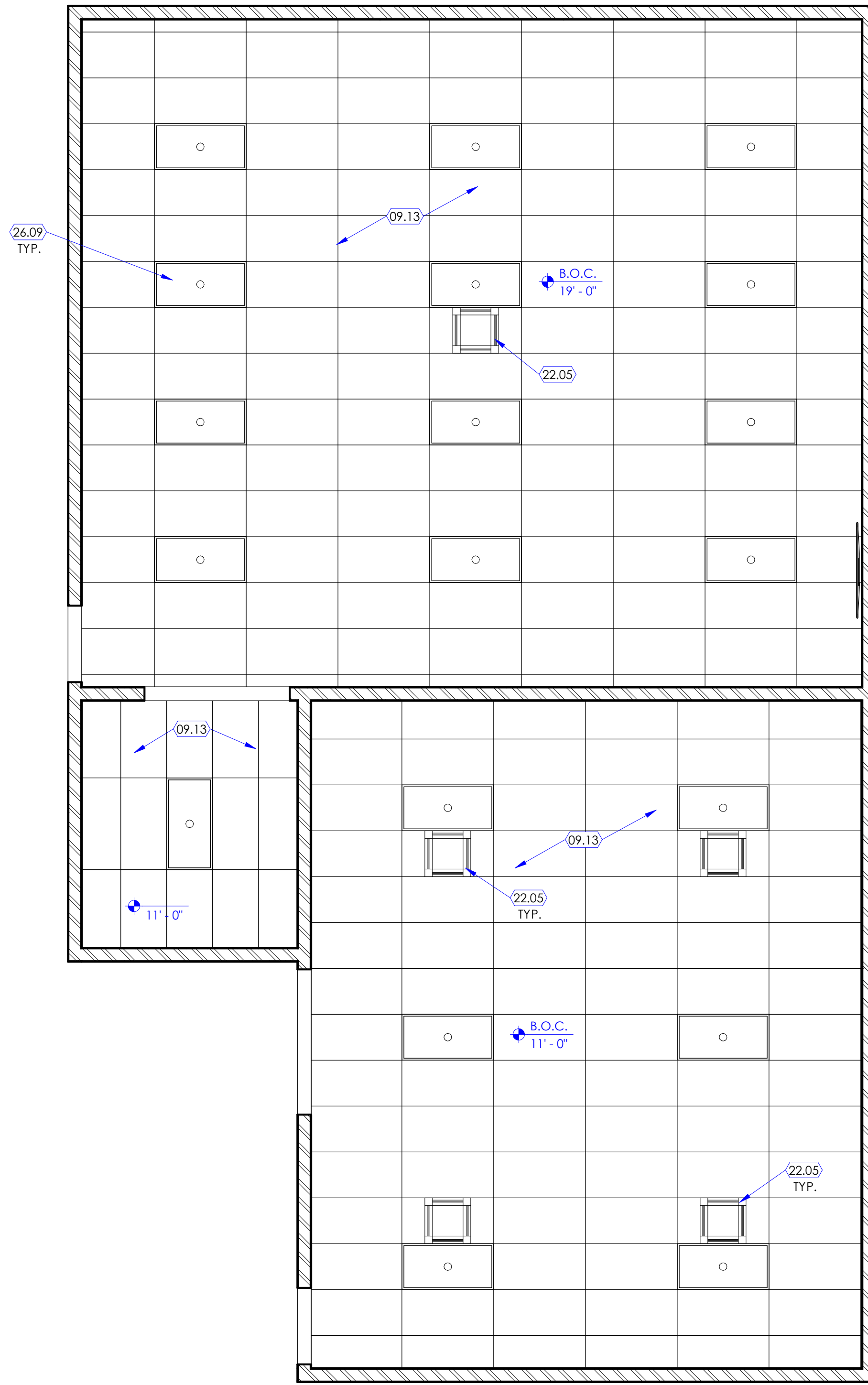
STATE OF UTAH
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RAJAVELU
267857-0301
02/13/25
LICENSED ARCHITECT

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1 Floor Plan Level 1
SCALE: 1/4" = 1'-0"



2 Reflected Ceiling Plan Level 1
SCALE: 1/4" = 1'-0"



KEYED NOTES

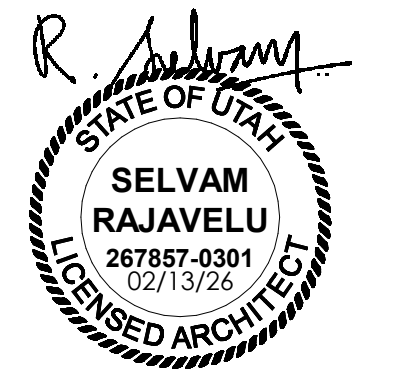
- 03.01 CONCRETE BASE. SEE STRUCTURAL DRAWINGS.
- 05.32 GUARDRAIL OR HANDRAIL. RAIL SHALL BE CONSTRUCTED WITH STEEL COMPONENTS PAINTED SAFETY YELLOW. ATTACH HANDRAIL TO WALL OR GUARDRAIL WHEREVER POSSIBLE EVERY 16". OTHERWISE ANCHOR GUARDRAIL AND HANDRAIL TO FLOOR DIAPHRAGM AS REQUIRED AND PROVIDE STAINLESS STEEL ESCUTCHEON AT FLOOR.
- 08.19 ALUMINUM-FRAMED STOREFRONT SYSTEM WITH 1/4" TEMPERED GLAZING. WINDOW SYSTEM SHALL BE 2" X 4 1/2" TYPE FRAMES. GLAZING SHALL BE OFF-CENTERED (OFFSET SYSTEM). FRAMES SHALL BE CLEAR ANODIZED FINISH. PROVIDE HEAVY DUTY FRAMES AROUND DOORS.
- 09.02 FRAMED FLOOR DIAPHRAGM. SEE STRUCTURAL DRAWINGS.
- 09.03 WALL, STEEL STUD FRAMED WALL WITH EXTERIOR SHEATHING. FINISH WITH EXTERIOR AND INTERIOR DRYWALL AND PAINT. PROVIDE ACOUSTICAL BATT WITHIN CAVITY OF WALL AND VAPOR BARRIER ON INTERIOR SIDE OF STUD. SEE STRUCTURAL DRAWINGS.
- 09.05 RAISED DISC RUBBER FLOORING TILES. MANUFACTURER SHALL BE JOHNSONITE ROUNDLE. RAISED ROUND RUBBER FLOORING. COLOR SHALL BE SELECTED BY OWNER/ARCHITECT.
- 09.08 WALL BASE. SEE FINISH FLOOR PLANS FOR WALL BASE TYPE INDICATED WITH A WALL BASE TAG (AS B1, B2, B3, ETC.). SEE FINISH SCHEDULE ON SHEET A603A FOR MATERIAL, SIZE, COLOR, ETC. FOR EACH WALL BASE TAG.
- 09.13 ACOUSTICAL CEILING TILE AND GRID. MANUFACTURER SHALL BE USG. RADAR 2211, WHITE.
- 09.26 LVT FLOOR COVERING. MANUFACTURER SHALL BE MANNINGTON COMMERCIAL DIVERGENT. COLOR SHALL BE SELECTED BY OWNER/ARCHITECT.
- 10.18 FIRE PROTECTION CABINET FOR STORING PORTABLE FIRE EXTINGUISHERS. CABINET SHALL BE RECESSED IN WALL. SEE DETAIL 2/A506A.
- 11.01 MOVEABLE STAIR/PLATFORM WITH SAFETY RAILS. OWNER FURNISHED, OWNER INSTALLED.
- 11.02 DOCK LIFT, 6'X8'. VESTIL MANUFACTURING MODEL "WL-100-5-48" AND ASSOCIATED CONTROL CABINET AND HYDRAULIC PUMP. CONTRACTOR FURNISHED CONTRACTOR INSTALLED.
- 11.03 MOOG MOTION BASE, MODEL MB-EP-6DOF/26/3000KG. VENDOR FURNISHED CONTRACTOR INSTALLED. ANCHOR TO CONCRETE BASE AS REQUIRED. CONTRACTOR SHALL PROVIDE ELECTRICAL DISCONNECT (LOCATED ELSEWHERE) AND CONDUCTORS WITHIN CONDUIT AS REQUIRED. SEE ELECTRICAL DRAWINGS. SEE VENDOR DOCUMENTATION IN PROJECT MANUAL FOR SPECIFIC REQUIREMENTS FOR INSTALLATION.
- 11.04 SINGLE GANG CONTROL DESKTOP SWITCH WITH LIGHT AND BUTTON. VENDOR FURNISHED, CONTRACTOR INSTALLED.
- 11.05 COMPRESSOR. SEE VENDOR (MOOG) DOCUMENTATION. SEE MECHANICAL DRAWINGS.
- 11.06 INTEGRATION RACK. VENDOR FURNISHED CONTRACTOR INSTALLED.
- 11.07 COMPUTER, WALL MOUNTED. CONTRACTOR SHALL FURNISH AND INSTALL WALL MOUNT FOR VENDOR SUPPLIED COMPUTER.
- 11.08 COMPUTER, NOT IN CONTRACT. VENDOR FURNISHED OWNER INSTALLED.
- 11.09 COMPUTER, NOT IN CONTRACT. OWNER FURNISHED OWNER INSTALLED. PROVIDE GROMMET IN COUNTERTOP WHERE COMPUTER OCCURS ON COUNTER WITH KNEE SPACE BELOW.
- 11.10 FLIGHT SIMULATOR BY OWNER'S VENDOR, LEONARDO. SEE VENDOR DOCUMENTATION IN PROJECT MANUAL FOR SITE PREPARATION REQUIREMENTS. VENDOR FURNISHED VENDOR INSTALLED.
- 11.11 TV, MOUNTED ON ARTICULATING ARM MOUNT, TO DISPLAY RECORDINGS. ELECTRICAL BACK BOX AND CONDUIT CONNECTION TO RACK SUPPLIED AND INSTALLED BY CONTRACTOR. TV SHALL BE VENDOR FURNISHED. CONTRACTOR INSTALLED. SEE ELECTRICAL DRAWINGS.
- 11.12 HYDRAULIC CABINET. VENDOR FURNISHED, CONTRACTOR INSTALLED. SEE VENDOR DRAWINGS.
- 11.13 TELEVISION (TV), NOT IN CONTRACT. OWNER FURNISHED OWNER INSTALLED. PROVIDE WALL MOUNTED METAL BRACKET TO SUPPORT THE TV. BRACKET SIZE AND MODEL SHALL BE BASED ON THE TV SIZE. PROVIDE PLYWOOD BACKING IN WALL AS REQUIRED TO SUPPORT THE TV BRACKET. PROVIDE POWER, DATA AND HDMI PORT. SEE ELECTRICAL DRAWINGS.
- 12.09 FURNITURE, NOT IN CONTRACT. OWNER FURNISHED OWNER INSTALLED.
- 22.05 MECHANICAL CEILING CASSETTE. SEE MECHANICAL DRAWINGS.
- 26.01 PLUG STRIPS FOR CHARGING. SEE ELECTRICAL DRAWINGS.
- 26.02 POWER AND DATA AS REQUIRED. SEE ELECTRICAL DRAWINGS.
- 26.03 CONDUIT UNDER FLOOR FOR "UMBILICAL" CONNECTION TO MOTION BASE. SEE ELECTRICAL DRAWINGS.
- 26.04 POWER AND DATA AS REQUIRED IN FUSELAGE FOR PATIENT MONITOR & MANNING. SEE ELECTRICAL DRAWINGS.
- 26.05 CONDUIT FROM RACK TO FUSELAGE. SEE ELECTRICAL DRAWINGS.
- 26.06 CONDUIT FROM RACK TO TV. SEE ELECTRICAL DRAWINGS.
- 26.07 CONDUIT FROM RACK TO CONSOLE. SEE ELECTRICAL DRAWINGS.
- 26.08 FLOOR BOX. PROVIDE POWER, DATA AT FLOOR BOX. SEE ELECTRICAL DRAWINGS.
- 26.09 LIGHTS ON DIMMER, TYPICAL. SEE ELECTRICAL DRAWINGS.
- 26.11 MOTION BASE ELECTRICAL DISCONNECT. CONTRACTOR FURNISHED, CONTRACTOR INSTALLED.

GENERAL NOTES

- A. SEE SHEET G003 AND G005 FOR SYMBOLS, GENERAL NOTES AND LEGEND.
- B. SEE SHEET A505A FOR CABINET LEGEND.
- C. SEE SHEET A601A FOR DOOR SCHEDULE.
- D. SEE SHEET A602A FOR WINDOW SCHEDULE.
- E. SEE SHEET A603A FOR FINISH SCHEDULE AND GENERAL NOTES.



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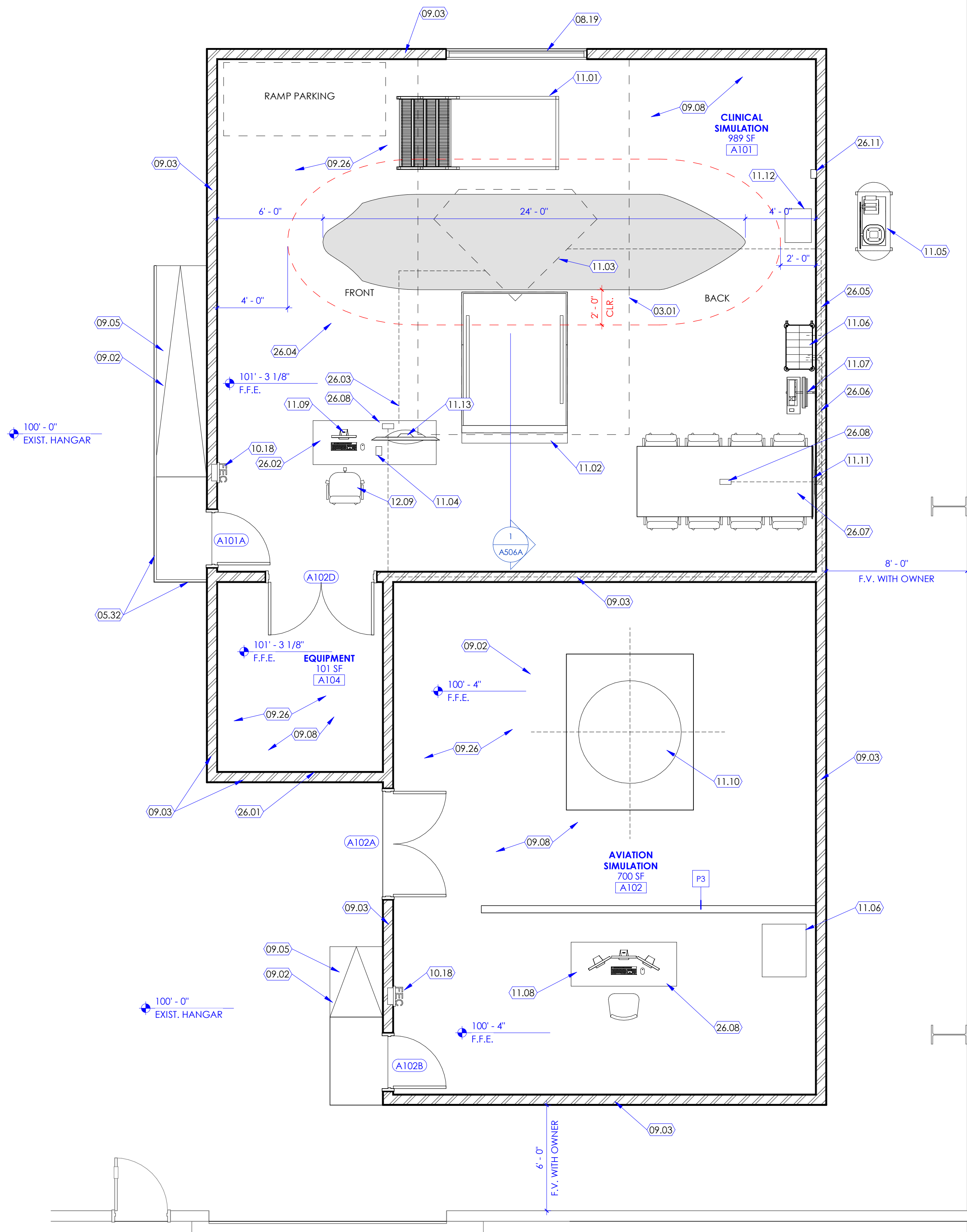
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Bid Set Feb 13, 2025

Enlarged
Views

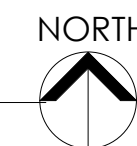
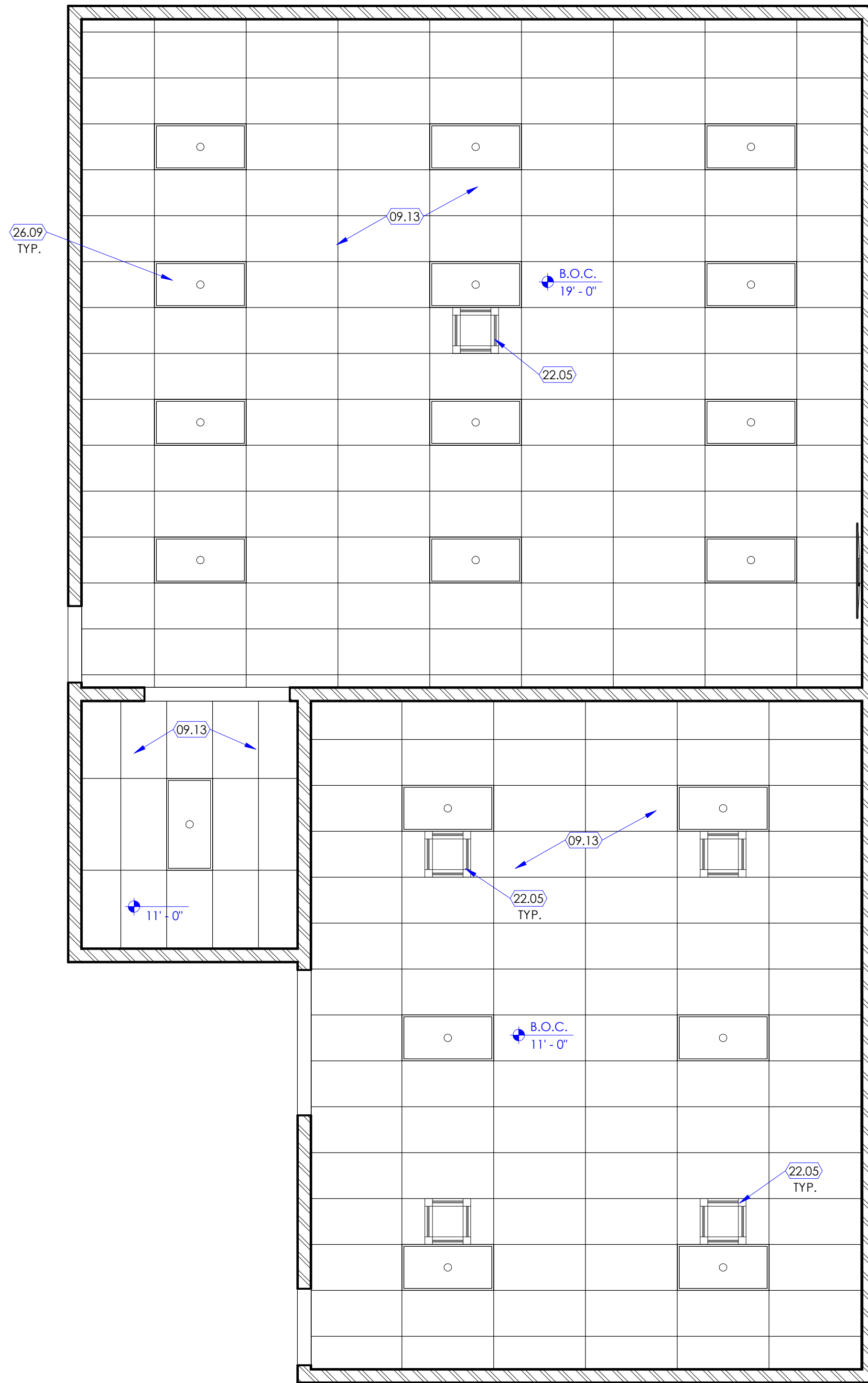
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1 Floor Plan Level 1
SCALE: 1/4" = 1'-0"



2 Reflected Ceiling Plan Level 1
SCALE: 1/4" = 1'-0"



KEYED NOTES

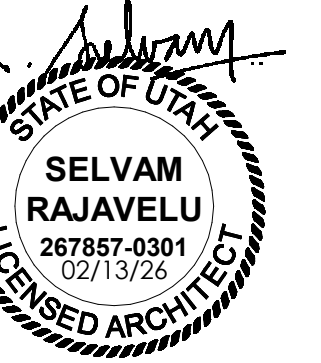
- 03.01 CONCRETE BASE. SEE STRUCTURAL DRAWINGS.
- 05.32 GUARDRAIL OR HANDRAIL. RAIL SHALL BE CONSTRUCTED WITH STEEL COMPONENTS PAINTED SAFETY YELLOW. ATTACH HANDRAIL TO WALL OR GUARDRAIL WHEREVER POSSIBLE EVERY 16". OTHERWISE ANCHOR GUARDRAIL AND HANDRAIL TO FLOOR DIAPHRAGM AS REQUIRED AND PROVIDE STAINLESS STEEL ESCUTCHEON AT FLOOR.
- 08.19 ALUMINUM-FRAMED STOREFRONT SYSTEM WITH 1/4" TEMPERED GLAZING. WINDOW SYSTEM SHALL BE 2" X 4 1/2" TYPE FRAMES. GLAZING SHALL BE OFF-CENTERED (OFFSET SYSTEM). FRAMES SHALL BE CLEAR ANODIZED FINISH. PROVIDE HEAVY DUTY FRAMES AROUND DOORS.
- 09.02 FRAMED FLOOR DIAPHRAGM. SEE STRUCTURAL DRAWINGS.
- 09.03 WALL, STEEL STUD FRAMED WALL WITH EXTERIOR SHEATHING. FINISH WITH EXTERIOR AND INTERIOR DRYWALL AND PAINT. PROVIDE ACOUSTICAL BATT WITHIN CAVITY OF WALL AND VAPOR BARRIER ON INTERIOR SIDE OF STUD. SEE STRUCTURAL DRAWINGS.
- 09.05 RAISED DISC RUBBER FLOORING TILES. MANUFACTURER SHALL BE JOHNSONITE ROUNDEL RAISED ROUND RUBBER FLOORING. COLOR SHALL BE SELECTED BY OWNER/ARCHITECT.
- 09.08 WALL BASE. MANUFACTURER SHALL BE MANNINGTON COMMERCIAL BURKEBASE TYPE TP WALL BASE. COLOR SHALL BE SELECTED BY OWNER/ARCHITECT.
- 09.13 ACOUSTICAL CEILING TILE AND GRID. MANUFACTURER SHALL BE USG, RADAR 2211, WHITE.
- 09.26 LVT FLOOR COVERING. MANUFACTURER SHALL BE MANNINGTON COMMERCIAL DIVERGENT. COLOR SHALL BE SELECTED BY OWNER/ARCHITECT.
- 10.18 FIRE PROTECTION CABINET FOR STORING PORTABLE FIRE EXTINGUISHERS. CABINET SHALL BE RECESSED IN WALL. SEE DETAIL 2/A506A.
- 11.01 MOVEABLE STAIR/PLATFORM WITH SAFETY RAILS. OWNER FURNISHED, OWNER INSTALLED.
- 11.02 DOCK LIFT, 6'X8'. VESTIL MANUFACTURING MODEL "WL-100-5-48" AND ASSOCIATED CONTROL CABINET AND HYDRAULIC PUMP. CONTRACTOR FURNISHED CONTRACTOR INSTALLED.
- 11.03 MOOG MOTION BASE, MODEL MB-EP-6DOF/26/3000KG. VENDOR FURNISHED CONTRACTOR INSTALLED. ANCHOR TO CONCRETE BASE AS REQUIRED. CONTRACTOR SHALL PROVIDE ELECTRICAL DISCONNECT (LOCATED ELSEWHERE) AND CONDUCTORS WITHIN CONDUIT AS REQUIRED. SEE ELECTRICAL DRAWINGS. SEE VENDOR DOCUMENTATION IN PROJECT MANUAL FOR SPECIFIC REQUIREMENTS FOR INSTALLATION.
- 11.04 SINGLE GANG CONTROL DESKTOP SWITCH WITH LIGHT AND BUTTON. VENDOR FURNISHED, CONTRACTOR INSTALLED.
- 11.05 COMPRESSOR. SEE VENDOR (MOOG) DOCUMENTATION. SEE MECHANICAL DRAWINGS.
- 11.06 INTEGRATION RACK. VENDOR FURNISHED CONTRACTOR INSTALLED.
- 11.07 COMPUTER. WALL MOUNTED. CONTRACTOR SHALL FURNISH AND INSTALL WALL MOUNT FOR VENDOR SUPPLIED COMPUTER.
- 11.08 COMPUTER. NOT IN CONTRACT. VENDOR FURNISHED OWNER INSTALLED.
- 11.09 COMPUTER. NOT IN CONTRACT. OWNER FURNISHED OWNER INSTALLED. PROVIDE GROMMET IN COUNTERTOP WHERE COMPUTER OCCURS ON COUNTER WITH KNEE SPACE BELOW.
- 11.10 FLIGHT SIMULATOR BY OWNER'S VENDOR, LEONARDO. SEE VENDOR DOCUMENTATION IN PROJECT MANUAL FOR SITE PREPARATION REQUIREMENTS. VENDOR FURNISHED VENDOR INSTALLED.
- 11.11 TV. MOUNTED ON ARTICULATING ARM MOUNT. TO DISPLAY RECORDINGS. ELECTRICAL BACK BOX AND CONDUIT CONNECTION TO RACK SUPPLIED AND INSTALLED BY CONTRACTOR. TV SHALL BE VENDOR FURNISHED. CONTRACTOR INSTALLED. SEE ELECTRICAL DRAWINGS.
- 11.12 HYDRAULIC CABINET. VENDOR FURNISHED. CONTRACTOR INSTALLED. SEE VENDOR DRAWINGS.
- 11.13 TELEVISION (TV). NOT IN CONTRACT. OWNER FURNISHED OWNER INSTALLED. PROVIDE WALL MOUNTED METAL BRACKET TO SUPPORT THE TV. BRACKET SIZE AND MODEL SHALL BE BASED ON THE TV SIZE. PROVIDE PLYWOOD BACKING IN WALL AS REQUIRED TO SUPPORT THE TV BRACKET. PROVIDE POWER, DATA AND HDMI PORT. SEE ELECTRICAL DRAWINGS.
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- 26.07 CONDUIT FROM RACK TO CONSOLE. SEE ELECTRICAL DRAWINGS.
- 26.08 FLOOR BOX. PROVIDE POWER, DATA AT FLOOR BOX. SEE ELECTRICAL DRAWINGS.
- 26.09 LIGHTS ON DIMMER, TYPICAL. SEE ELECTRICAL DRAWINGS.
- 26.11 MOTION BASE ELECTRICAL DISCONNECT. CONTRACTOR FURNISHED. CONTRACTOR INSTALLED.

GENERAL NOTES

- A. SEE SHEET G003 AND G005 FOR SYMBOLS, GENERAL NOTES AND LEGEND.
- B. SEE SHEET A505A FOR CABINET LEGEND.
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- E. SEE SHEET A603A FOR FINISH SCHEDULE AND GENERAL NOTES.



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Intermountain Health
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NJRA Project # 25252.00
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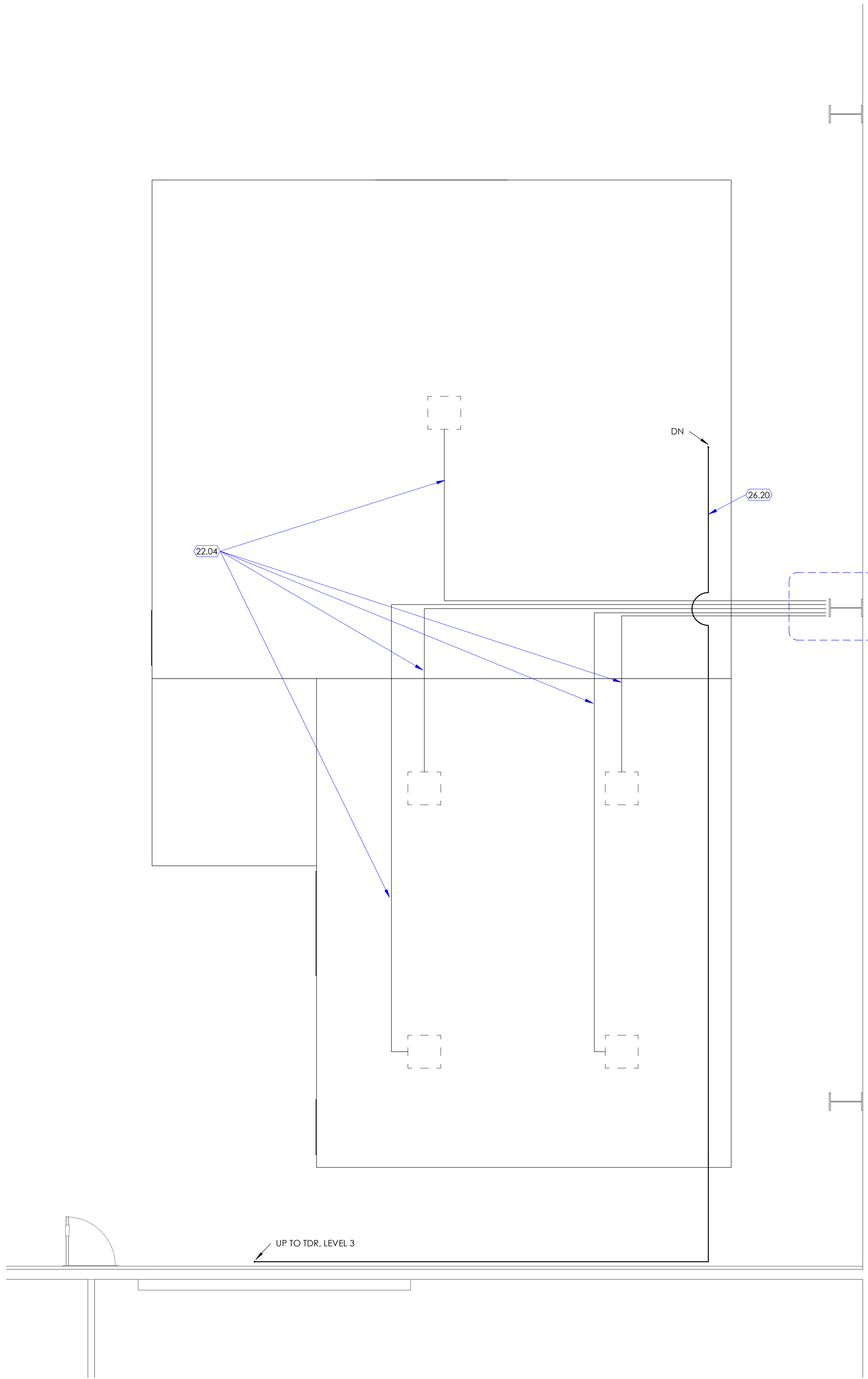
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Salt Lake City, UT 84116

Enlarged
Views

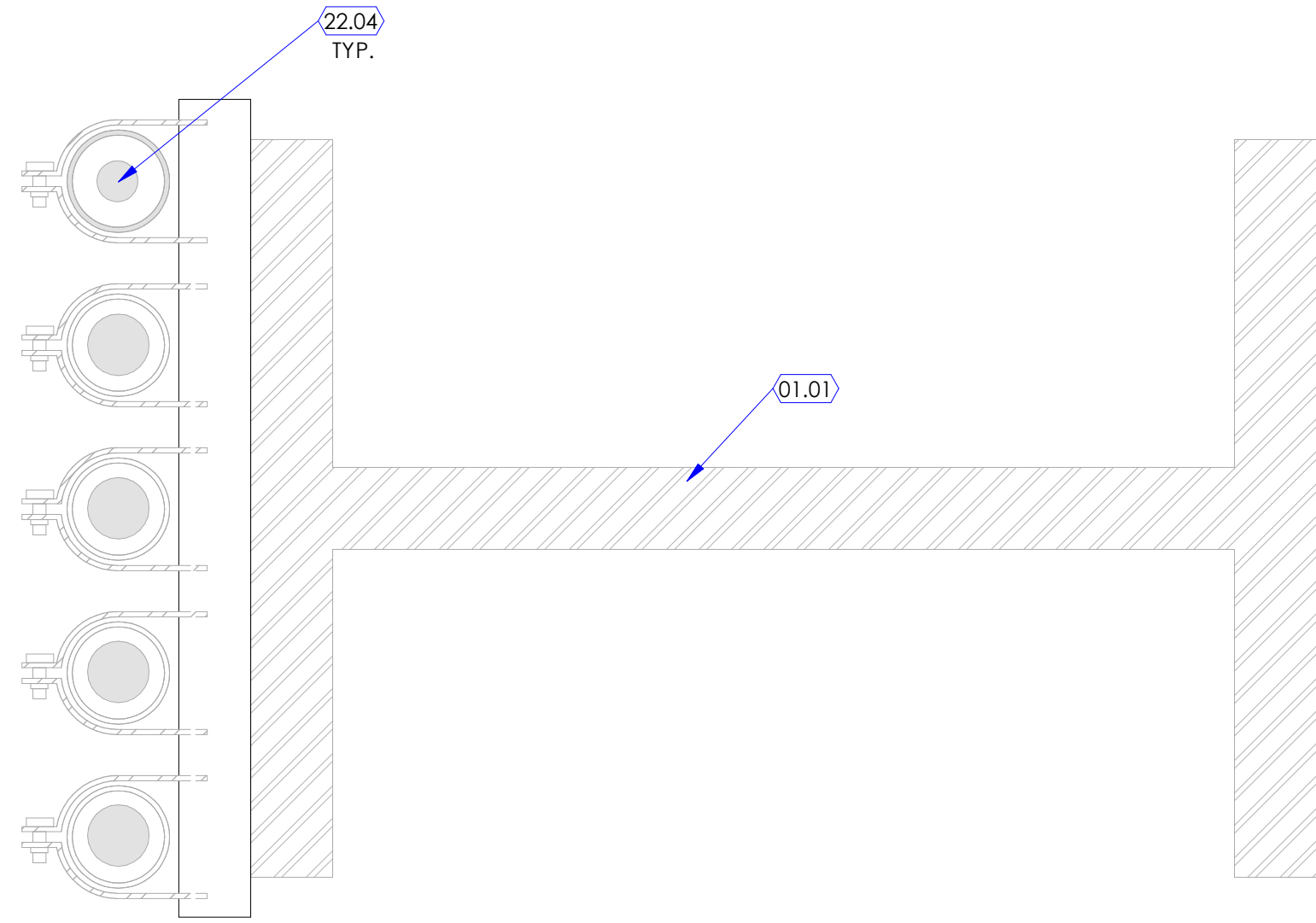
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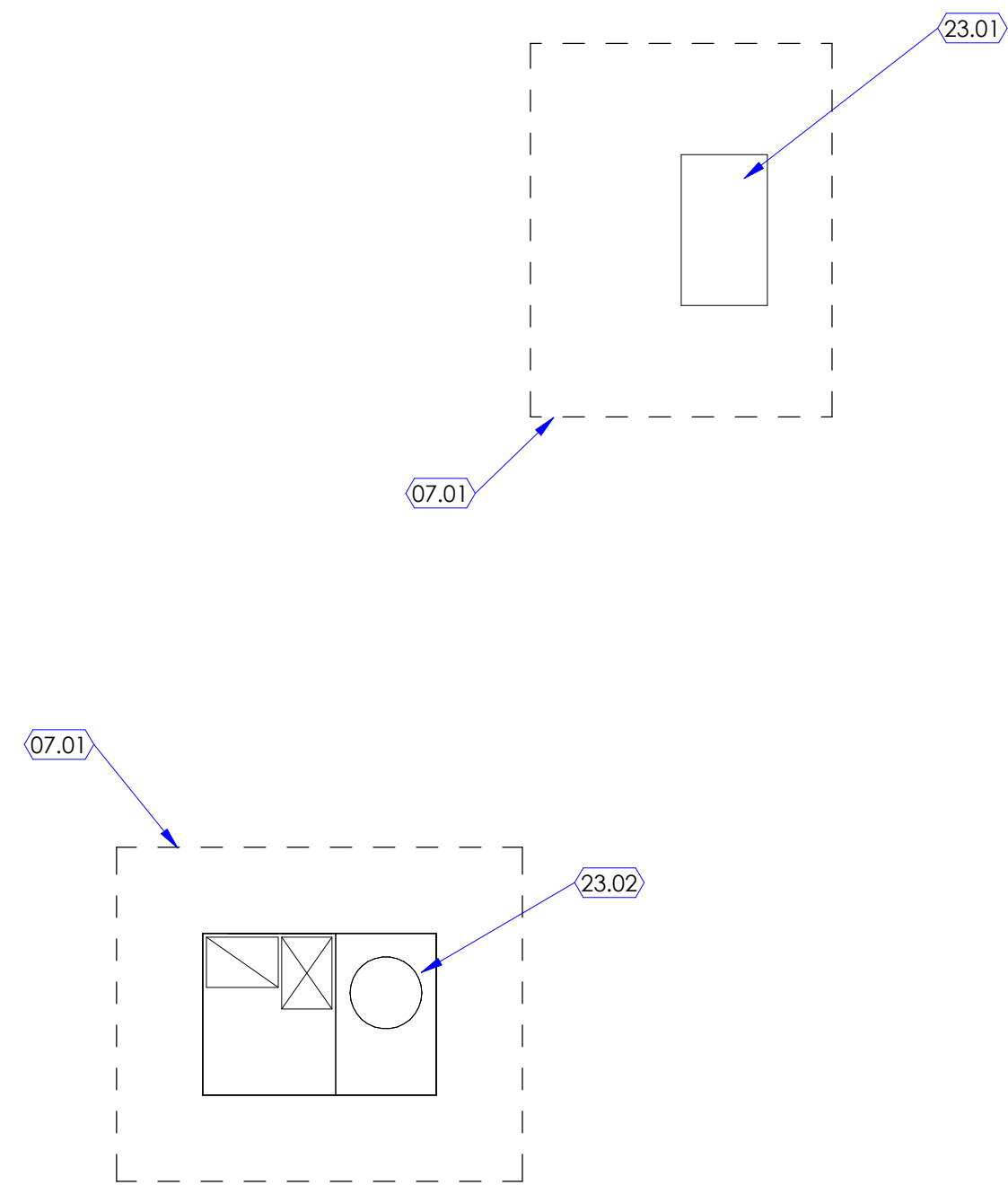
1 Simulation Roof Plan
SCALE: 1/4" = 1'-0"



2 Roof Plan
SCALE: 1/4" = 1'-0"



3 Mechanical Detail
SCALE: 3" = 1'-0"



KEYED NOTES

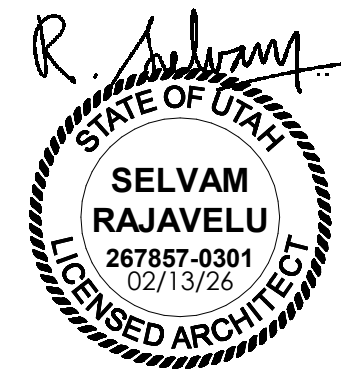
- 01.01 STEEL COLUMN, EXISTING.
- 07.01 ROOFING, EXISTING, PATCH AS REQUIRED TO MATCH ADJACENT.
- 22.04 MECHANICAL HYAC LINE TO MECHANICAL CONDENSER UNIT MOUNTED ON ROOF. SEE MECHANICAL DRAWINGS.
- 23.01 ROOFTOP UNIT ON MIRO STAND. SEE MECHANICAL DRAWINGS.
- 23.02 HEAT PUMP CONDENSOR UNIT ON MIRO STAND. SEE MECHANICAL DRAWINGS.
- 26.20 CONDUIT CONNECTION TO TDR. SEE ELECTRICAL DRAWINGS.

GENERAL NOTES

- A. SEE SHEET G003 AND G005 FOR SYMBOLS, GENERAL NOTES AND LEGEND.
- B. SEE SHEET A505A FOR CABINET LEGEND.
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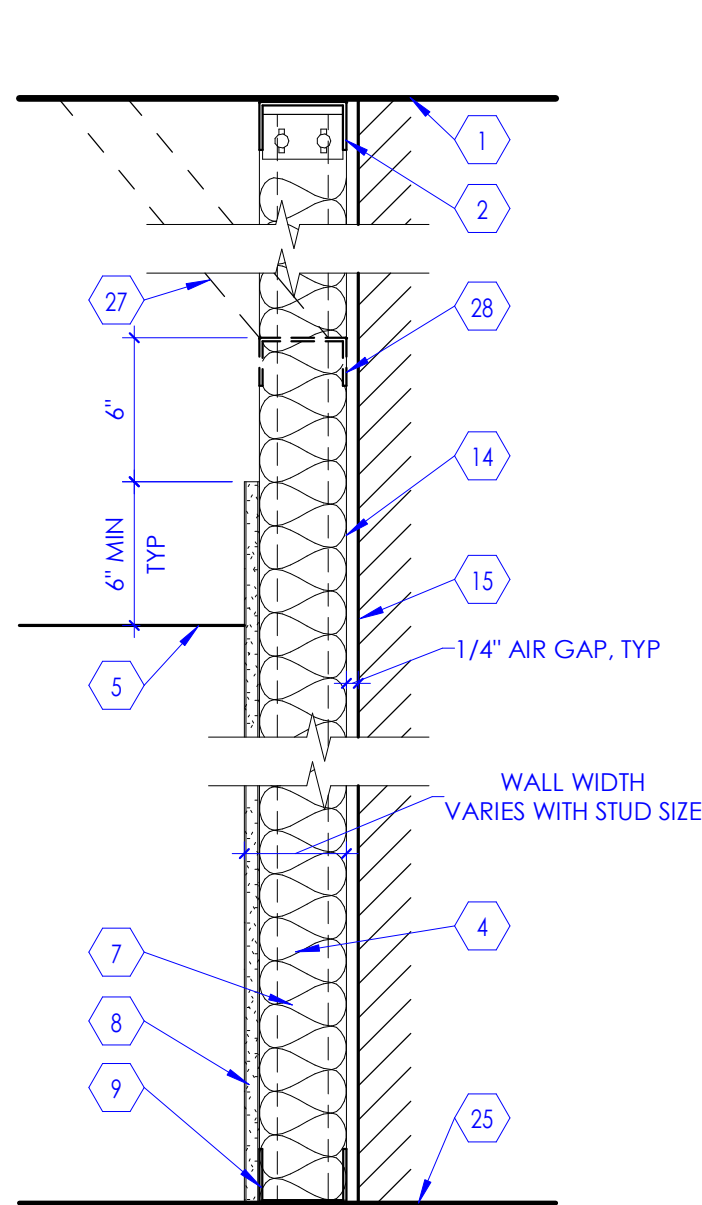
Intermountain Health
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Life Flight Simulator

2284 1.60 N
Salt Lake City, UT 84116

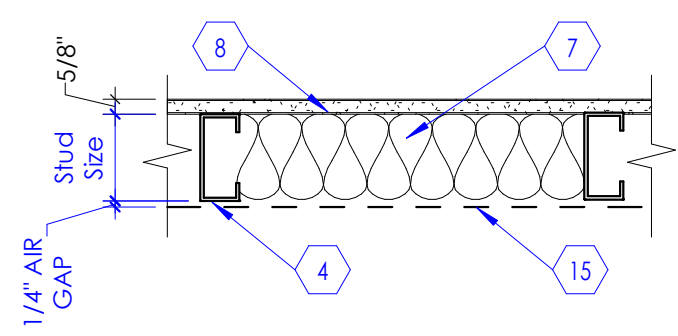
NJRA Project # 25252.00
Bid Set Feb 13, 2025

Enlarged
Views

A402



SECTION VIEW

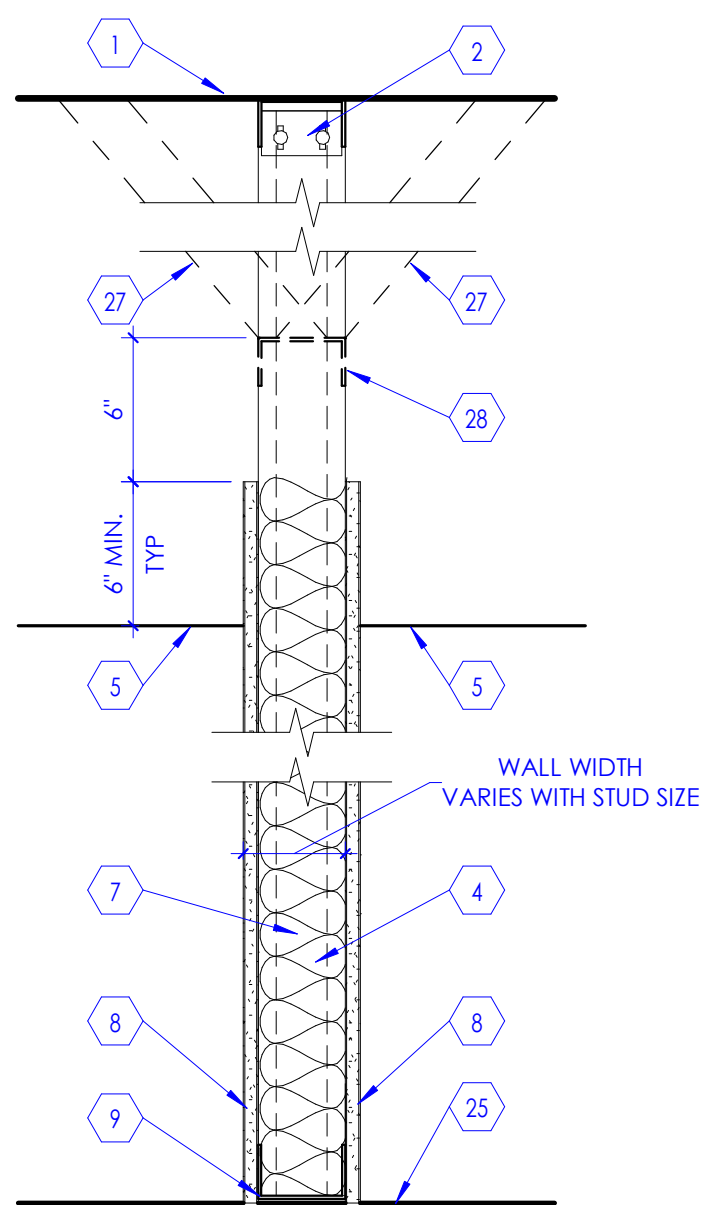


PLAN VIEW

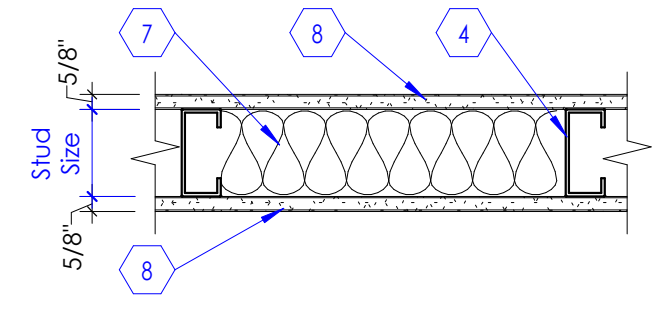
WALL TYPE	STUD SIZE	WALL WIDTH
A1	1 1/2"	2 1/8"
A2	2 1/2"	3 1/8"
A3	3 5/8"	4 1/4"
A4	6"	6 5/8"

Type - A

Metal Stud
Furring Wall



SECTION VIEW

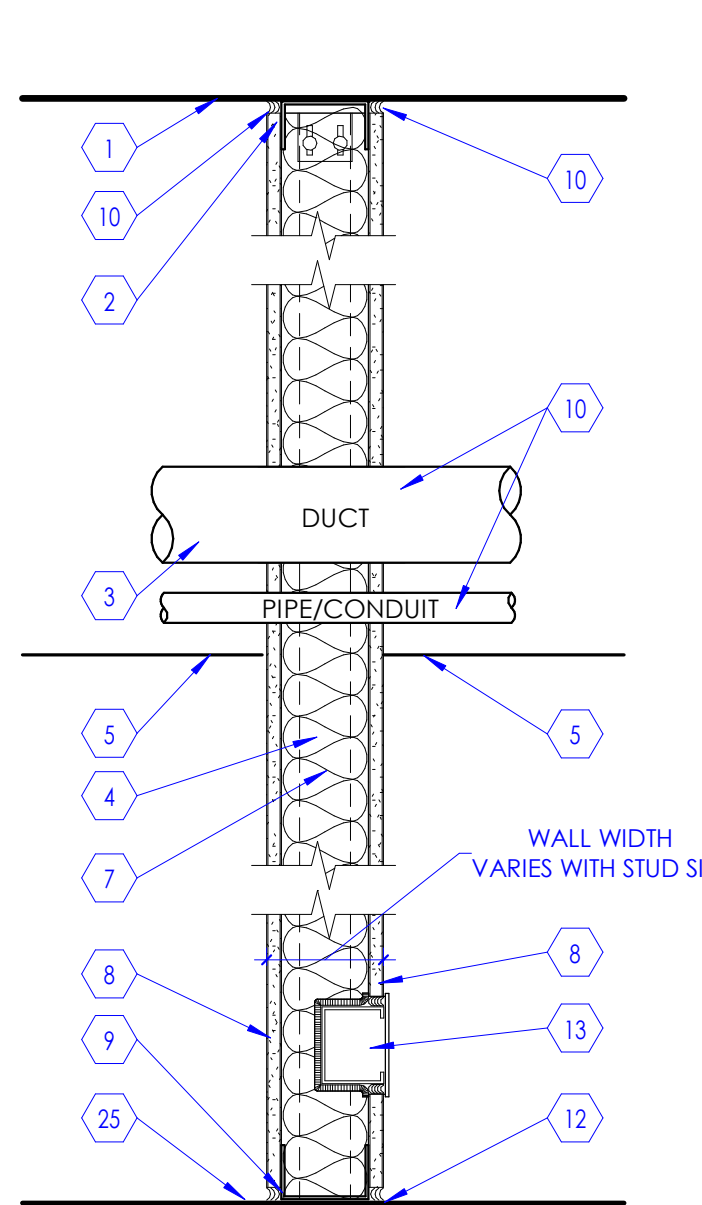


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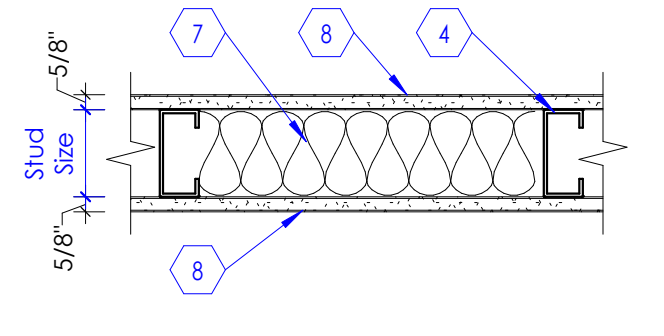
WALL TYPE	STUD SIZE	WALL WIDTH
B2	2 1/2"	3 3/4"
B3	3 5/8"	4 7/8"
B4	6"	7 1/4"

Type - B

Typical Metal
Stud Wall



SECTION VIEW

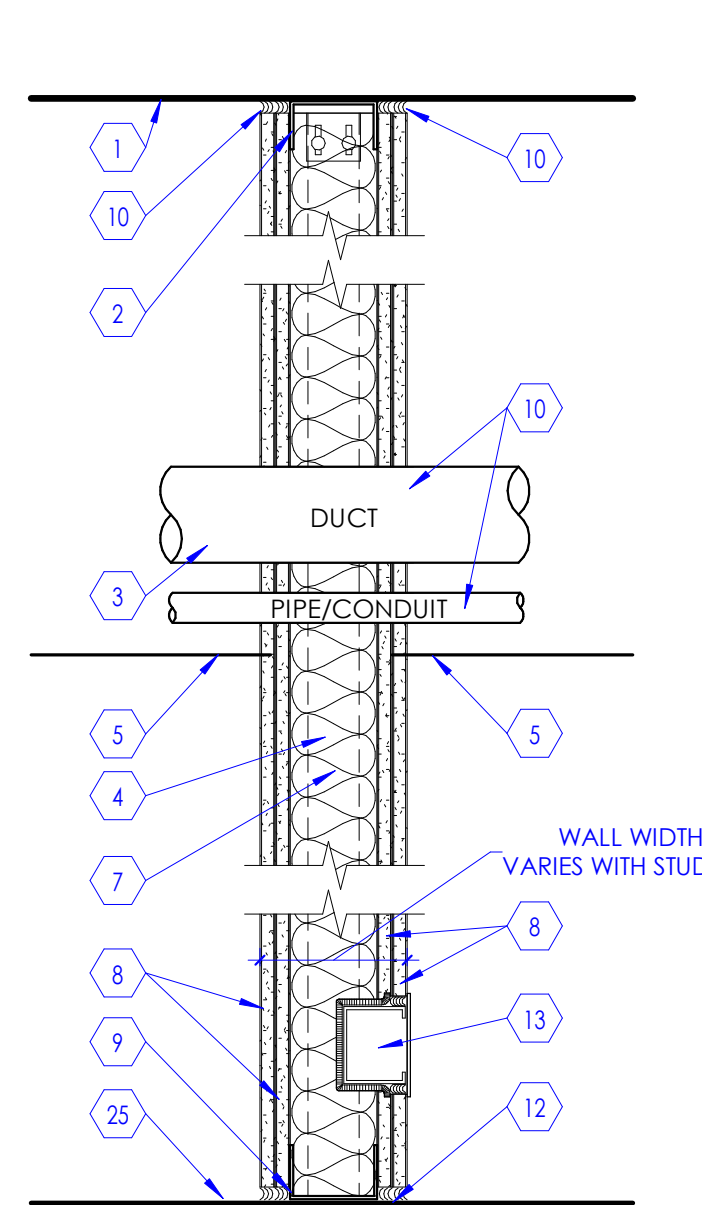


PLAN VIEW

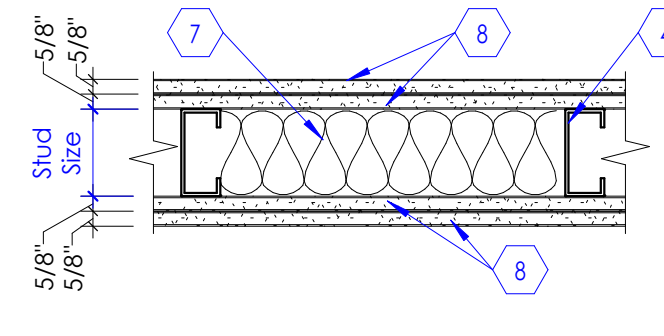
WALL TYPE	STUD SIZE	WALL WIDTH
C3	3 5/8"	4 7/8"
C4	4"	5 1/4"
C6	6"	7 1/4"

Type - C

1 Hour Fire Rated
UL DESIGN #: U465



SECTION VIEW

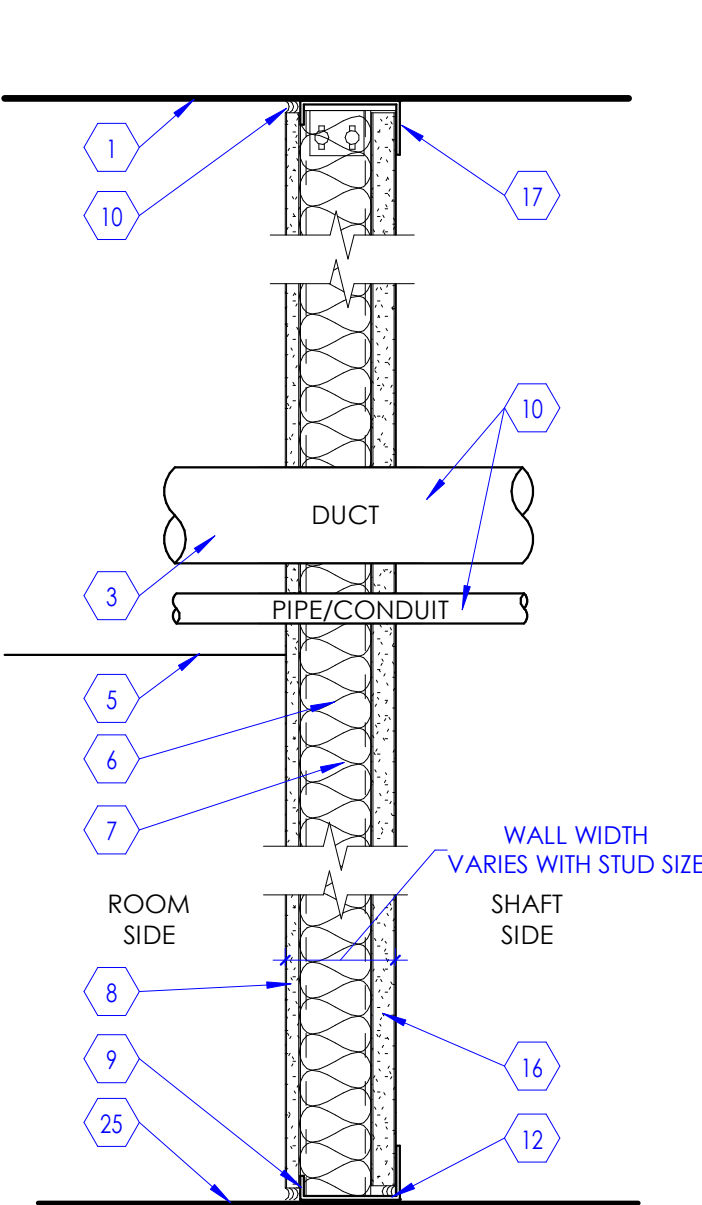


PLAN VIEW

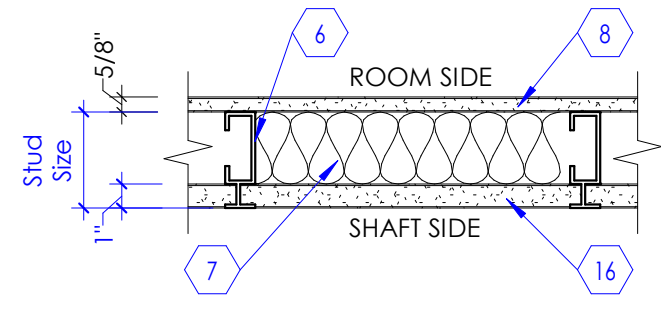
WALL TYPE	STUD SIZE	WALL WIDTH
D3	3 5/8"	6 1/8"
D4	4"	6 1/2"
D6	6"	8 1/2"

Type - D

2 Hour Fire Rated
UL DESIGN #: U411



SECTION VIEW

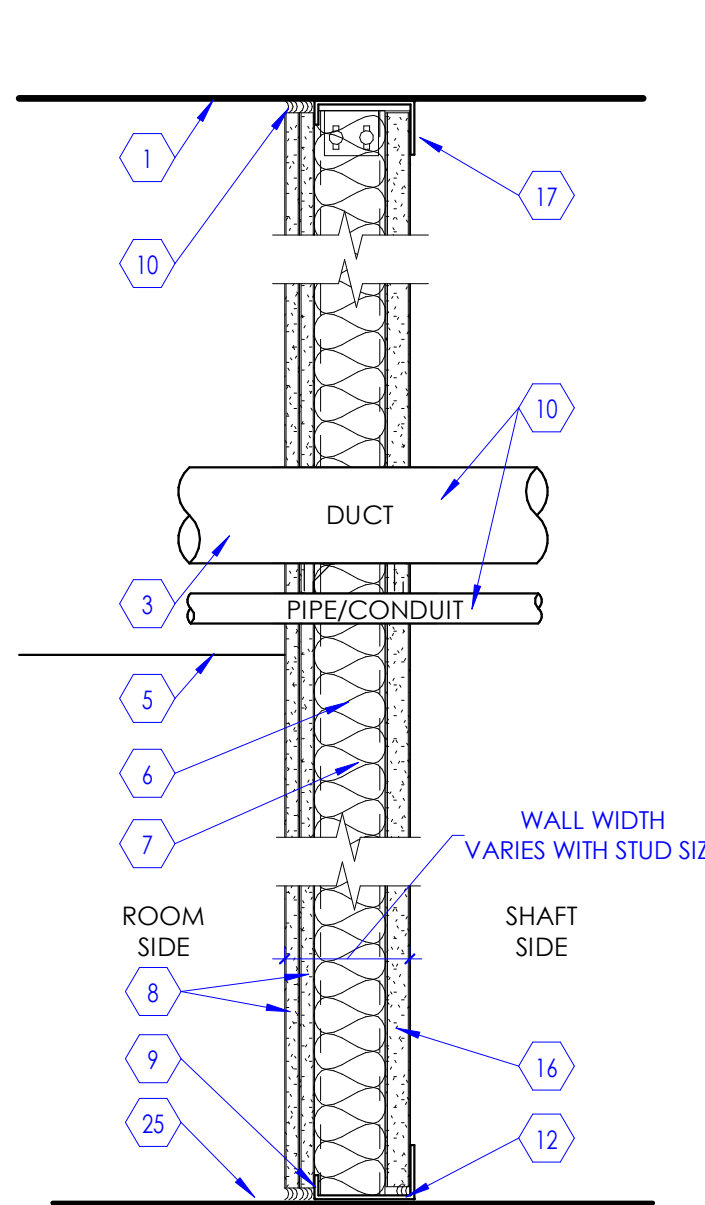


PLAN VIEW

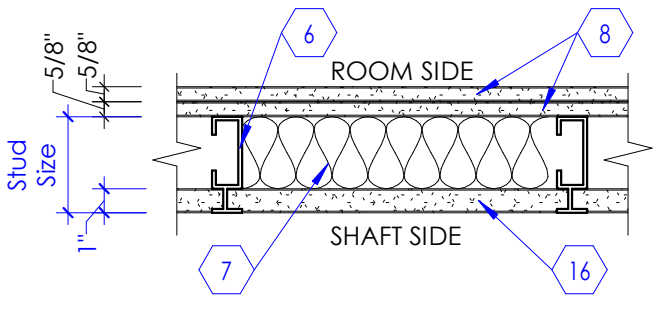
WALL TYPE	STUD SIZE	WALL WIDTH
E2	2 1/2"	3 1/8"
E4	4"	4 5/8"
E6	6"	6 5/8"

Type - E

1 Hour Fire Rated
Shaft Wall
UL DESIGN #: U415 SYS. A



SECTION VIEW

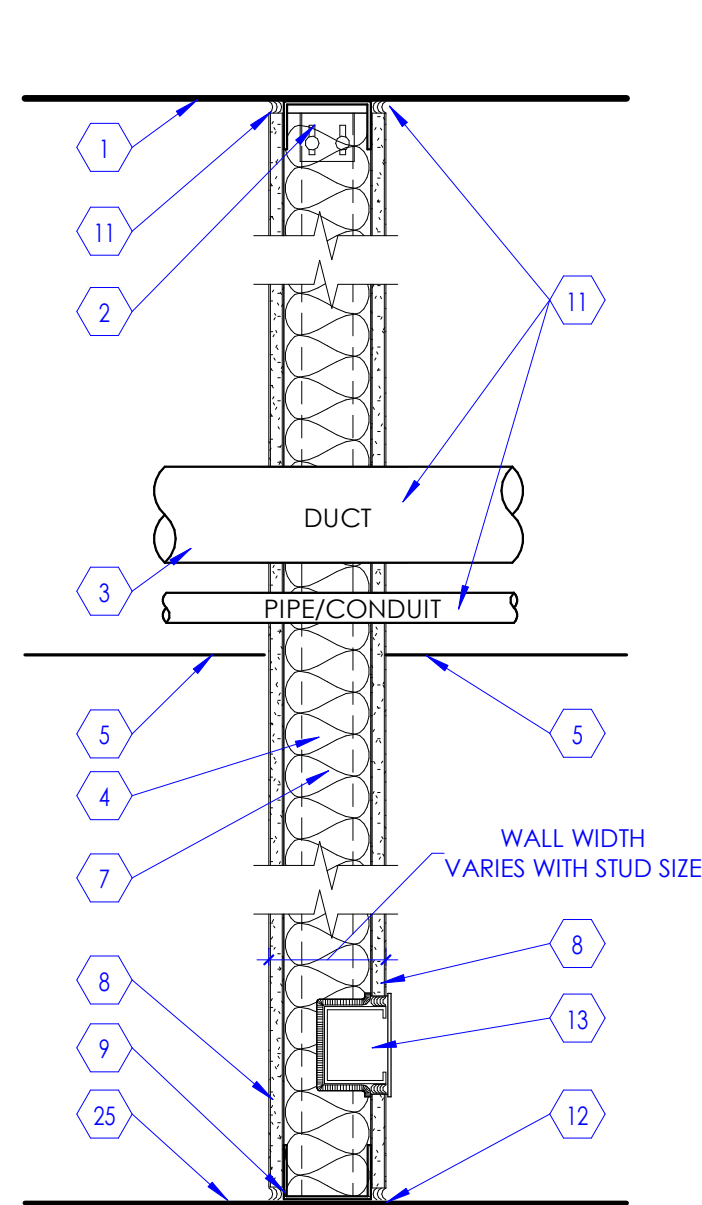


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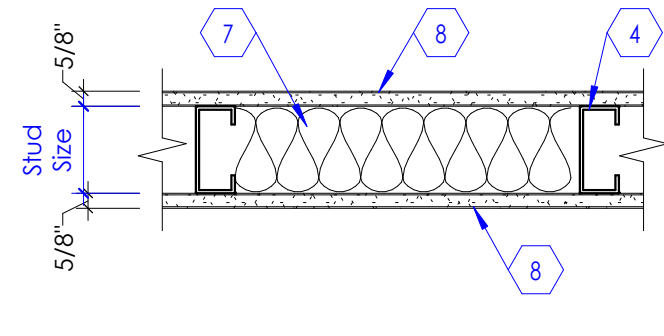
WALL TYPE	STUD SIZE	WALL WIDTH
F4	4"	5 1/4"
F6	6"	7 1/4"

Type - F

2 Hour Fire Rated
Shaft Wall
UL DESIGN #: U415 SYS. A



SECTION VIEW

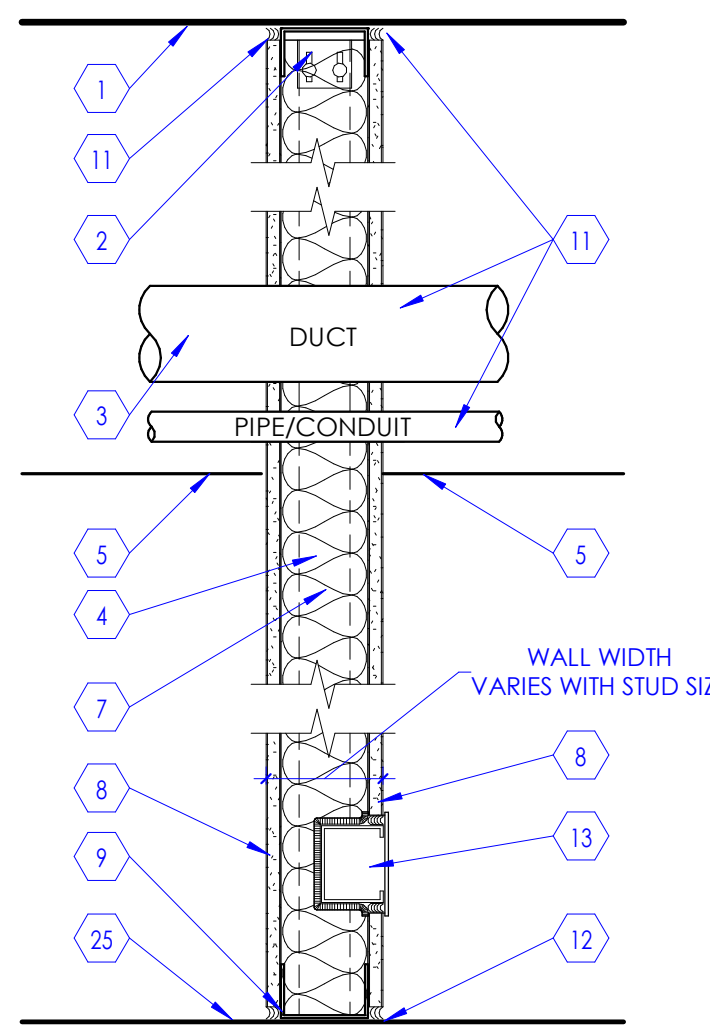


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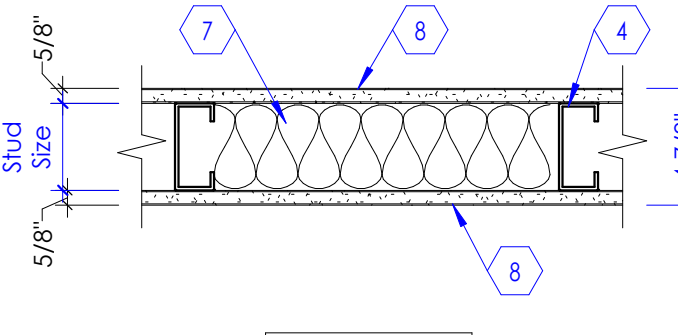
WALL TYPE	STUD SIZE	WALL WIDTH
G2	2 1/2"	3 3/4"
G3	3 5/8"	4 7/8"
G4	4"	5 1/4"
G6	6"	7 1/4"

Type - G

Smoke Partition



SECTION VIEW

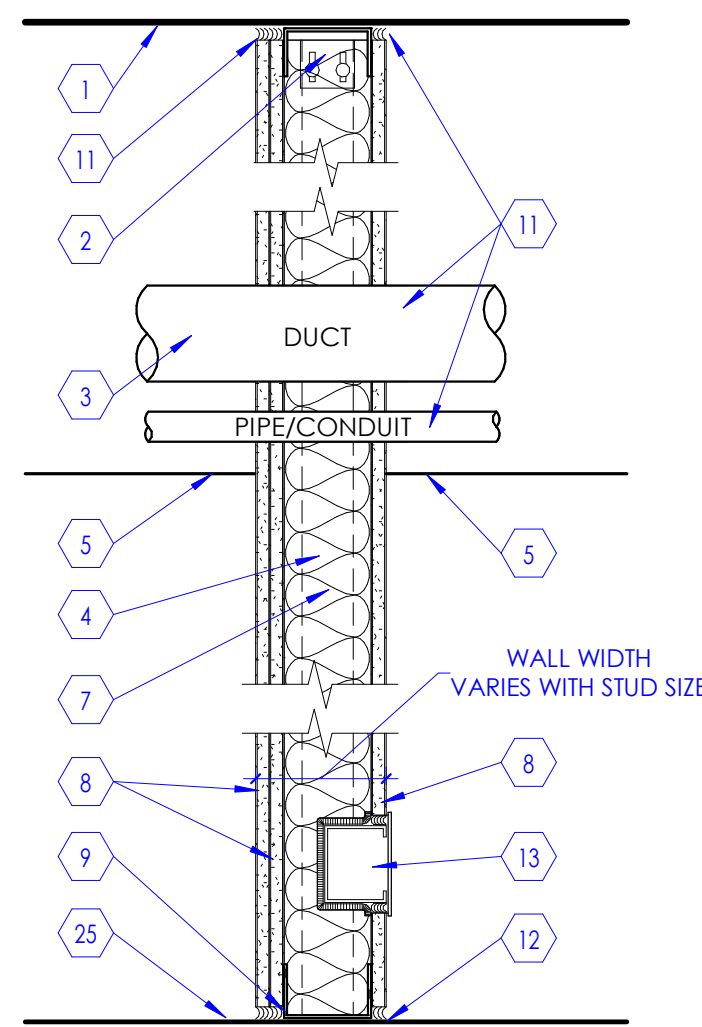


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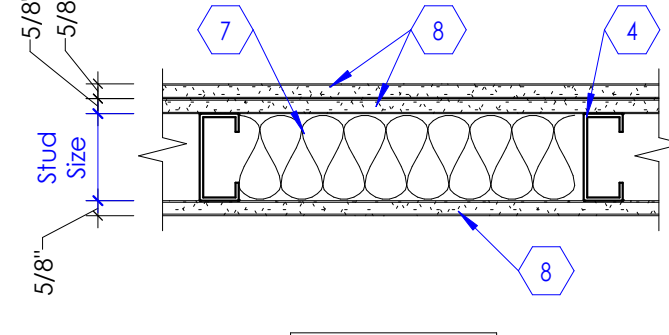
WALL TYPE	STUD SIZE	WALL WIDTH
H3	3 5/8"	4 7/8"
H4	4"	5 1/4"
H6	6"	7 1/4"

Type - H

Sound Barrier 40 STC
Sound Attenuation (STC) Test: NGC 25116



SECTION VIEW

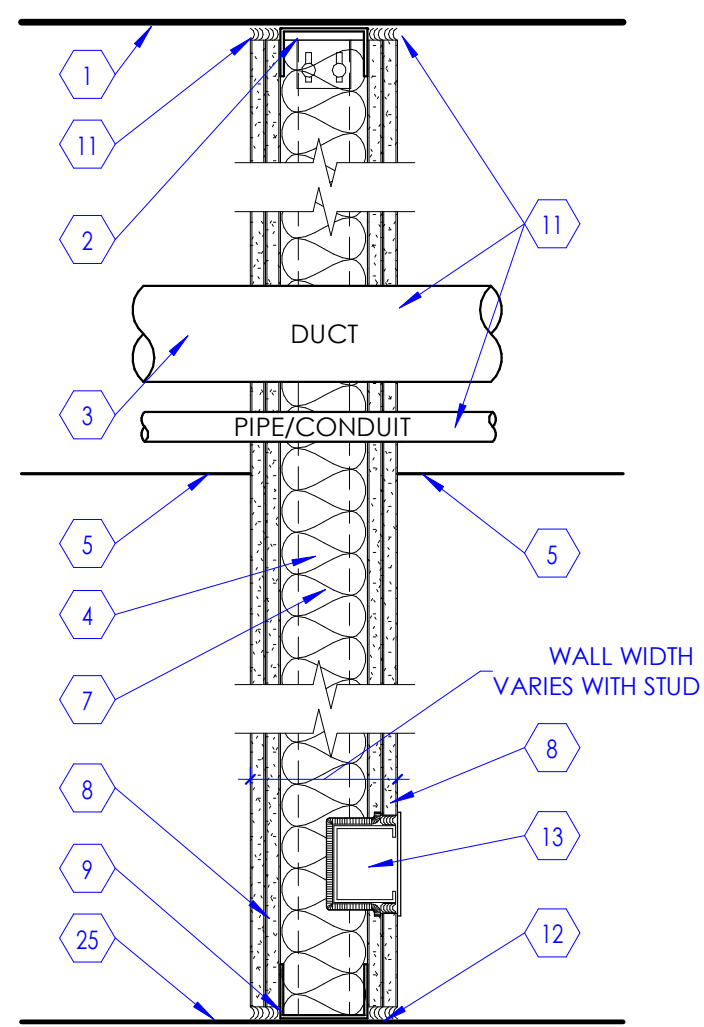


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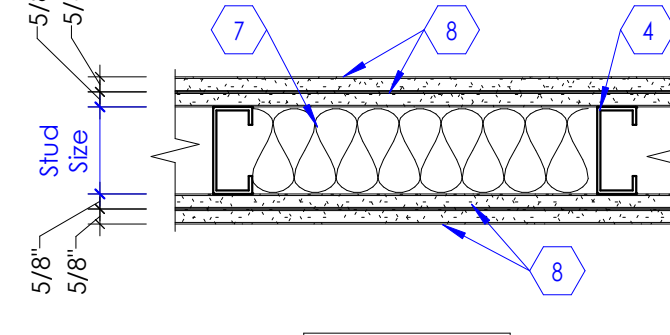
WALL TYPE	STUD SIZE	WALL WIDTH
J3	3 5/8"	5 1/2"
J4	4"	5 7/8"
J6	6"	7 7/8"

Type - J

Sound Barrier 45 STC
Sound Attenuation (STC) Test: NGC 25116



SECTION VIEW

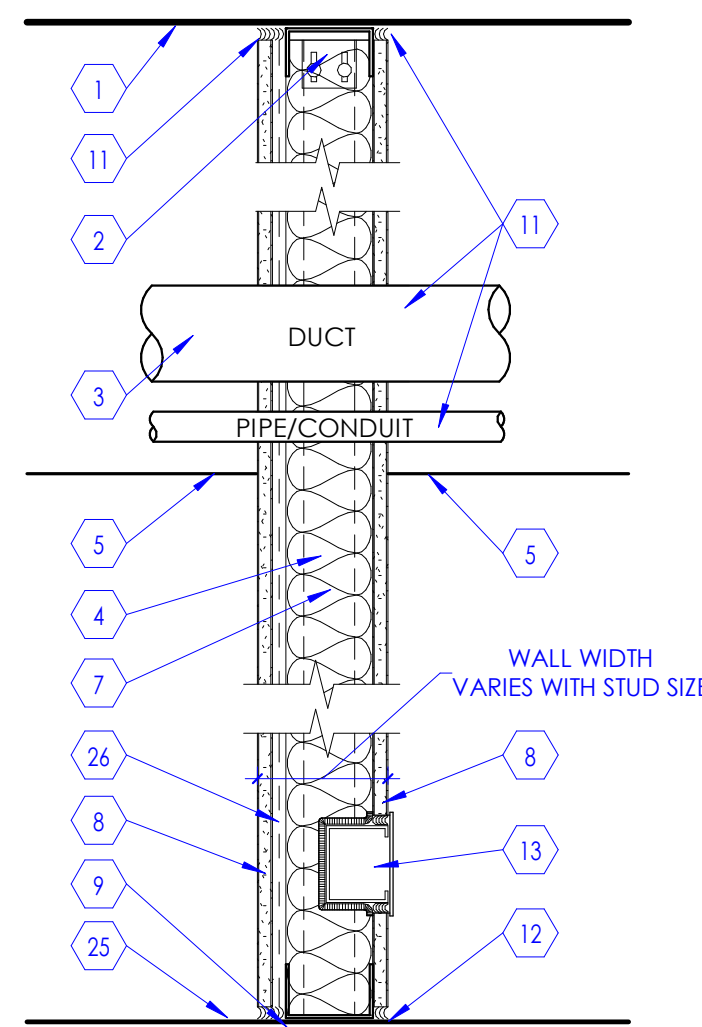


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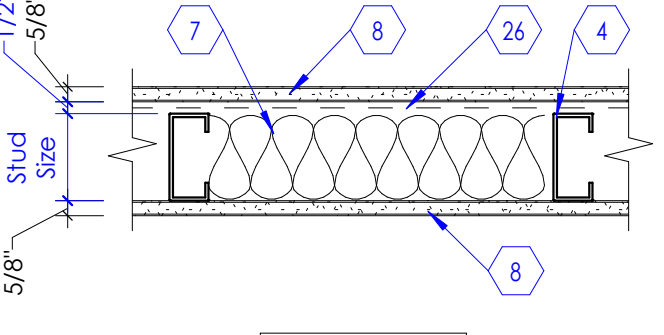
WALL TYPE	STUD SIZE	WALL WIDTH
K3	3 5/8"	6 1/8"
K4	4"	6 1/2"
K6	6"	8 1/2"

Type - K

Sound Barrier 50 STC
Sound Attenuation (STC) Test: NGC 25116



SECTION VIEW

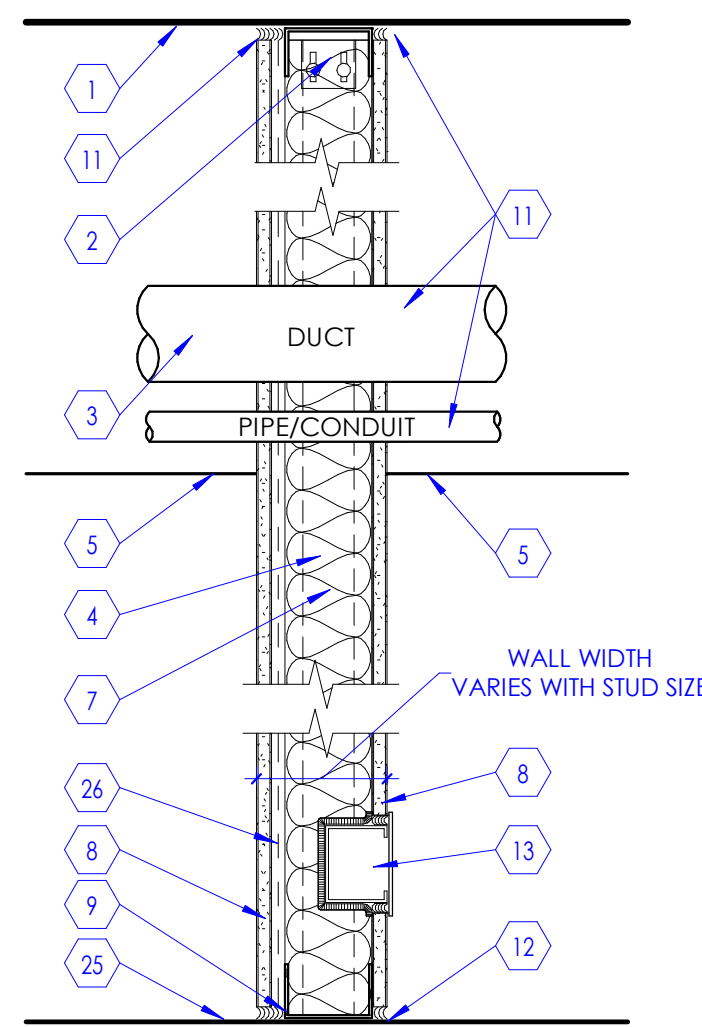


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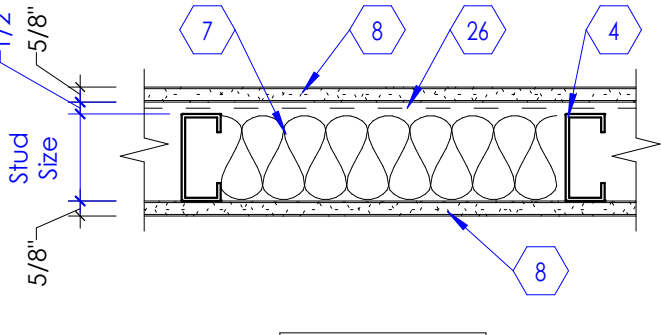
WALL TYPE	STUD SIZE	WALL WIDTH
L3	3 5/8"	5 3/8"
L4	4"	5 3/4"
L6	6"	7 3/4"

Type - L

Sound Barrier 50 STC
Sound Attenuation (STC) Test: NGC 25116



SECTION VIEW

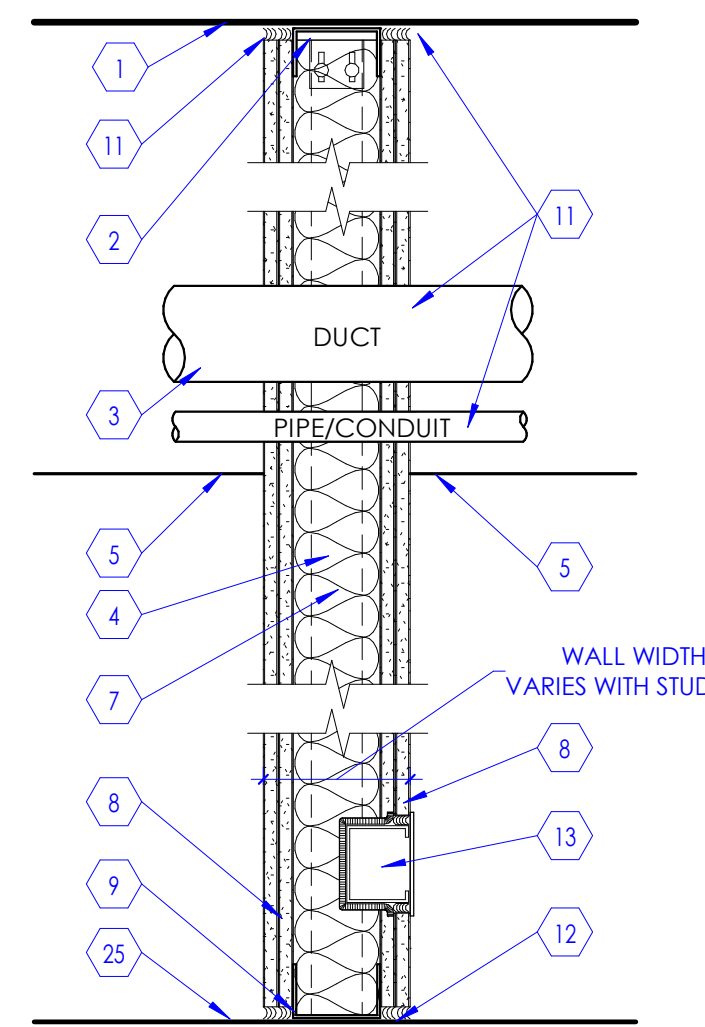


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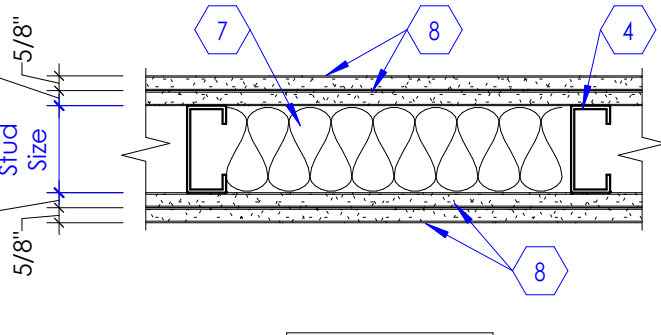
WALL TYPE	STUD SIZE	WALL WIDTH
M3	3 5/8"	5 3/8"
M4	4"	5 3/4"
M6	6"	7 3/4"

Type - M

1 Hour Fire Rated
Sound Barrier 50 STC
Sound Attenuation (STC) Test: NGC 25116



SECTION VIEW

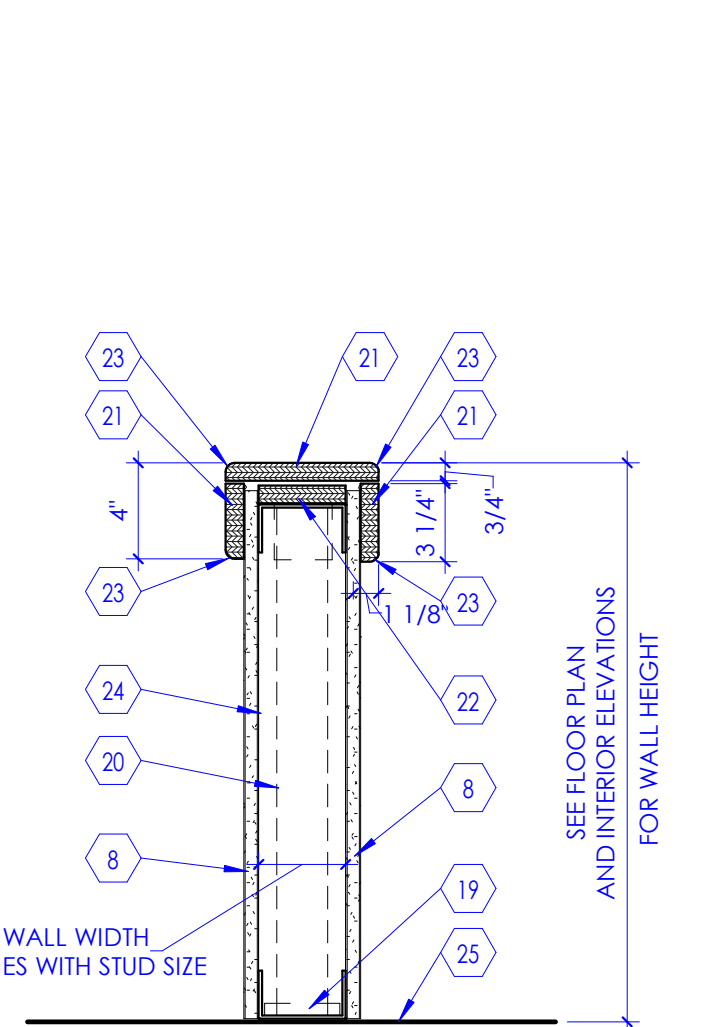


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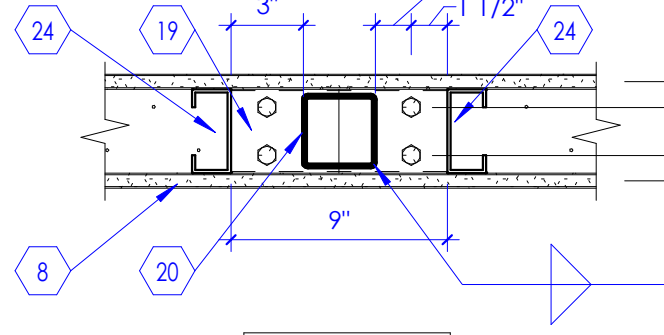
WALL TYPE	STUD SIZE	WALL WIDTH
N3	3 5/8"	6 1/8"
N4	4"	6 1/2"
N6	6"	8 1/2"

Type - N

2 Hour Fire Rated
Sound Barrier 50 STC
Sound Attenuation (STC) Test: NGC 25116



SECTION VIEW



PLAN VIEW

WALL TYPE	STUD SIZE	WALL WIDTH
P3	3 5/8"	4 7/8"
P4	4"	5 1/4"
P6	6"	7 1/4"

Type - P

Partial Height Wall

KEYED NOTE

1. LINE OF FLOOR OR ROOF DECK AS OCCURS.
2. TO ACCOMMODATE FOR STRUCTURE DEFLECTION, PROVIDE SLIP CONNECTION BETWEEN TOP RUNNER TRACK AND METAL STUD FRAMING. SEE DETAIL 11 / A502A
3. STUD FRAMING AROUND DUCT OPENINGS. SEE DETAIL 11 / A502A
4. METAL STUDS, 20 GA STRUCTURAL (35 MILS) AT 16" O.C. U.N.O. BASED ON WALL TYPES INDICATED IN THIS PLAN. PROVIDE STUD SIZE AS INDICATED IN WALL TYPES WITH TRACK RUNNERS AT TOP AND BOTTOM. FOR STUD FRAMING AROUND DOOR AND WINDOW OPENINGS, SEE DETAIL 11 / A502A
5. LINE OF CEILING AS OCCURS. SEE REFLECTED CEILING PLAN.
6. STEEL STUDS, "C" SHAPED, 20 GA STRUCTURAL AT 24" O.C.
7. PROVIDE ACOUSTIC INSULATION BLANKET FOR FULL DEPTH OF THE STUD CAVITY THROUGHOUT. UNO, FOR 4" & 5/8" STUDS PROVIDE R-13 UNFACED BATT INSULATION AND FOR 6" STUDS PROVIDE R-19 UNFACED BATT INSULATION. PROVIDE KRAFT FACED INSULATION FOR ALL APPLICATIONS AT EXTERIOR WALLS.
8. GYPSUM BOARD, 5/8" THICK, TYPE "X", U.N.O. ATTACHED TO METAL STUD FRAMING. SEE GENERAL NOTE "B" BELOW.
9. ANCHOR BASE TRACK TO CONCRETE FLOOR BELOW. SEE DETAIL 8 / A502A
10. FILL GAP BETWEEN DECK AND METAL TRACK TOP RUNNER WITH FIRESTOP SEALANT, SEAL TIGHTLY AROUND ALL PIPES, CONDUITS, DUCTS, ETC. ON EACH SIDE OF THE FIRE BARRIER WALL (CONTINUOUS) WITH APPROVED FIRESTOP SEALANT INSTALLED AROUND ALL PENETRATIONS TO MAINTAIN THE INTEGRITY OF THE FIRE BARRIER.
11. FILL GAP BETWEEN DECK AND METAL TRACK TOP RUNNER WITH ACOUSTIC SEALANT, SEAL TIGHTLY AROUND ALL PIPES, CONDUITS, DUCTS, ETC. ON EACH SIDE OF THE WALL (CONTINUOUS) AND AROUND ALL PENETRATIONS TO MAINTAIN THE INTEGRITY OF THE WALL.
12. STOP GYPSUM BOARD 1/4" ABOVE THE FLOOR TYP. ON EACH SIDE OF WALL. PROVIDE ACOUSTIC SEALANT AT SOUND WALLS AND FIRESTOP SEALANT AT RATED WALLS ON EACH SIDE OF THE WALL (CONTINUOUS).
13. OUTLET BOX AS OCCURS. PROVIDE FIRE BARRIER MOLDABLE PUTTY PADS AND FIRESTOP SEALANT AROUND ELECTRICAL BOXES AT ALL RATED WALLS AND SOUND BARRIER WALLS AND AT BACK TO BACK ELECTRICAL BOXES AT SMOKE PARTITION WALLS, TYP.
14. PROVIDE STRAPPING AND BLOCKING AT FURRING WALL. SEE DETAIL 12 / A502A
15. LINE INDICATES EXISTING WALL OR STRUCTURE. PROVIDE 1/4" AIR GAP.
16. GYPSUM BOARD SHAFT LINER PANEL, 1" THICK, TYPE "X", ATTACHED TO C-H STUDS.
17. STEEL RUNNER, "I" SHAPED WITH UNEQUAL LEGS OF 1" AND 2", 20 GA, ATTACHED TO FLOOR AND STRUCTURE ABOVE WITH FASTENERS LOCATED NO GREATER THAN 2" FROM ENDS AND NO MORE THAN 24" O.C. RUNNERS SHOULD BE POSITIONED WITH SHORT LEG TO FINISHED SIDE OF WALL.
18. STOP STUD RUNNER AT BASE PLATES.
19. STEEL PLATE, 3/8" THICK WITH 4-1/2" DIA. HILTI-HY200 EPOXY ANCHORS WITH 2-3/8" HILTI-HIT -2 ANCHORS. EMBED INTO CONCRETE 2-3/8".
20. TUBE STEEL, 3" x 3" x 3/16" AT 4'-0" O.C.
21. WALL CAP, SOLID SURFACE MATERIAL ATTACHED TO WALL BELOW.
22. PLYWOOD, 3/4" THICK, CONTINUOUS FIRE TREATED. ATTACH PLYWOOD TO VERTICAL STEEL TUBE POST WITH "L" SHAPED METAL CLIPS AND FASTENERS.
23. PROVIDE 1/4" RADIUS ROUNDED EDGE. CONTINUOUS.
24. METAL STUDS 16 GA STRUCTURAL (35 MIL) AT 16" O.C. PROVIDE RUNNERS AT TOP AND BOTTOM. ATTACH TOP RUNNER TO PLYWOOD AND VERTICAL STEEL POST.
25. LINE OF FLOOR.
26. RESILIENT CHANNEL, 2" X 1/2", INSTALLED HORIZONTALLY AND SPACED AT 24" O.C.
27. WHERE CONDITIONS PROHIBIT EXTENDING STUDS TO DECK, PROVIDE CROSS BRACING FROM TOP RUNNER OF WALL TO STRUCTURE ABOVE WITH 5/8" 20 GA STUDS AT 4'-0" O.C. ALTERNATE DIRECTION OF BRACING TO STRUCTURE EVERY 48" AS CONDITIONS ALLOW.
28. TOP TRACK, 18 GA. REQUIRED AT CROSS-BRACED WALLS.

GENERAL NOTES

- A. CONTRACTOR SHALL VERIFY ITEMS LIKE SEMI OR FULLY RECESSED MISCELLANEOUS BOXES, PANELS, PLUMBING LINES, CONDUITS, PIPES, ETC. THAT ARE CONCEALED IN THE WALL IF 3/8" METAL STUDS ARE INADEQUATE. CONTRACTOR SHALL NOTIFY THE ARCHITECT AND USE 6" STUDS. COORDINATE WITH ALL THE CONSULTANT DRAWINGS PRIOR TO WALL CONSTRUCTION AND USE 4" OR 6", 20 GAUGE METAL STUDS FOR FRAMING IN LIEU OF 3/8" METAL STUDS.
- B. USE 5/8" CEMENTITIOUS BOARD IF CERAMIC OR PORCELAIN WALL TILES ARE INDICATED IN THE FINISH SCHEDULE AS WALL FINISH. CEMENTITIOUS BOARD SHALL EXTEND FROM FINISHED FLOOR TO HEIGHT OF TILE. 5/8" WATER RESISTANT GYPSUM BOARD TO BE USED ABOVE TILE HEIGHT IN RESTROOMS. SEE FLOOR PLANS FOR CERTAIN UNIQUE LOCATIONS THAT REQUIRE LEAD LINED GYPSUM BOARD, IMPACT RESISTANT GYPSUM BOARD, SOUND ATTENUATION GYPSUM BOARD, ETC.
- C. PROVIDE CONTROL JOINT AS PER DETAIL 14 / A502A WHEN LENGTH OF GYPSUM BOARD EXCEEDS 50' IN ONE DIRECTION OR AS DIRECTED BY ARCHITECT. COORDINATE WITH ARCHITECT FOR CONTROL JOINT LOCATIONS. WHEN GYPSUM BOARD OR CEMENTITIOUS BOARD IS ATTACHED VERTICALLY, USE 1" LONG #4 DRYWALL SCREWS TO EACH STUD. SCREWS ARE 8" O.C. AT PERIMETER AND 12" AT INTERMEDIATE STUD. WHEN GYPSUM BOARD IS ATTACHED HORIZONTALLY TO STUDS, HORIZONTAL JOINTS SHALL BE STAGGERED WITH THOSE ON THE OPPOSITE SIDE. SCREWS FOR HORIZONTAL APPLICATION SHALL BE 8" O.C. AT VERTICAL EDGES AND 12" O.C. AT INTERMEDIATE STUDS.
- D. FOR LOCATION OF FIRE RATED WALLS AND SMOKE PARTITION WALLS SEE CODE COMPLIANCE PLAN.
- E. SEE DIMENSION FLOOR PLANS FOR WALL TYPES USED IN THIS PROJECT. SOME WALL TYPES MAY NOT BE USED IN THIS PROJECT.
- F. WHERE LEAD LINED WALLS ARE INDICATED ON THE DRAWINGS, USE 16 GA STUDS IN LIEU OF THE GAUGE OF STUDS CALLED OUT IN THE WALL TYPES.
- G. IN PLACES WHERE MECHANICAL DUCTS ARE DESIGNED TO PENETRATE THE FLOOR, MEET THE REQUIREMENTS OF FIRE RATING. PROVIDE A TWO-HOUR FIRE RATED ENCLOSURE AT TOP AND BOTTOM OF SHAFT AS INDICATED IN DETAILS 11 / A502A AND 12 / A502A.
- H. IN PLACES WHERE A TWO-HOUR HORIZONTAL ENCLOSURE IS REQUIRED TO SEPARATE THE DUCTS FROM THE SPACE BELOW, PROVIDE A TWO-HOUR FIRE RATED HORIZONTAL ASSEMBLY AS PER DETAILS 11 / A502A AND 12 / A502A.
- I. IN PLACES WHERE BACKING IS REQUIRED IN WALLS TO SUPPORT WALL HUNG EQUIPMENT, CABINETS, ETC. PROVIDE BACKING IN WALL PER DETAILS 5 / A502A AND 13 / A502A.

Intermountain Health
Intermountain Life Flight
Life Flight Simulator

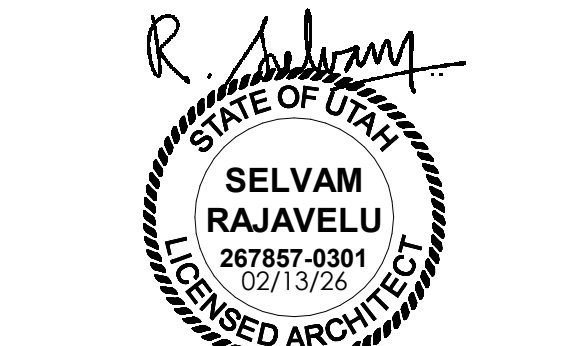
NJRA Project # 25252.00
Bid Set Feb 13, 2025

Wall Types

A501A

NJRA
ARCHITECTS

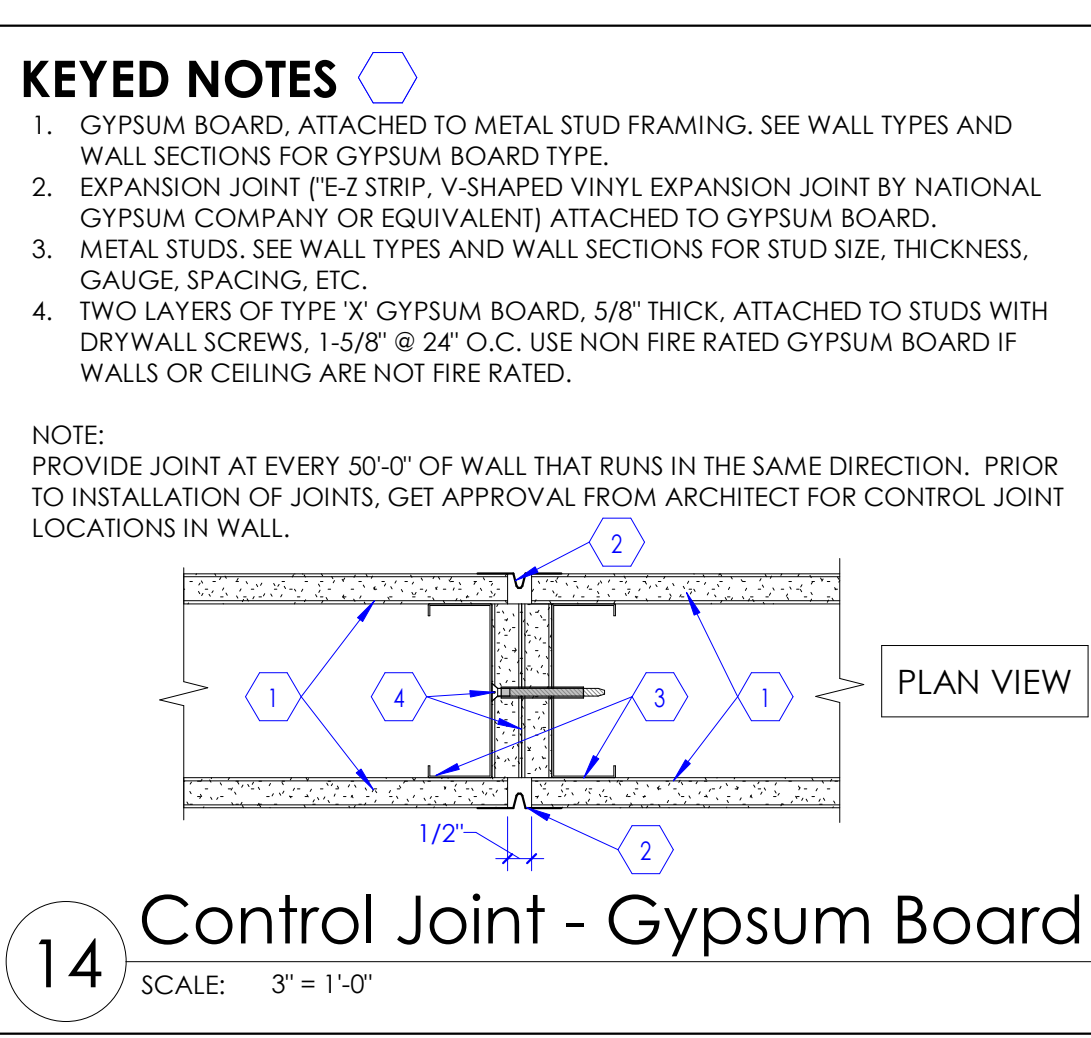
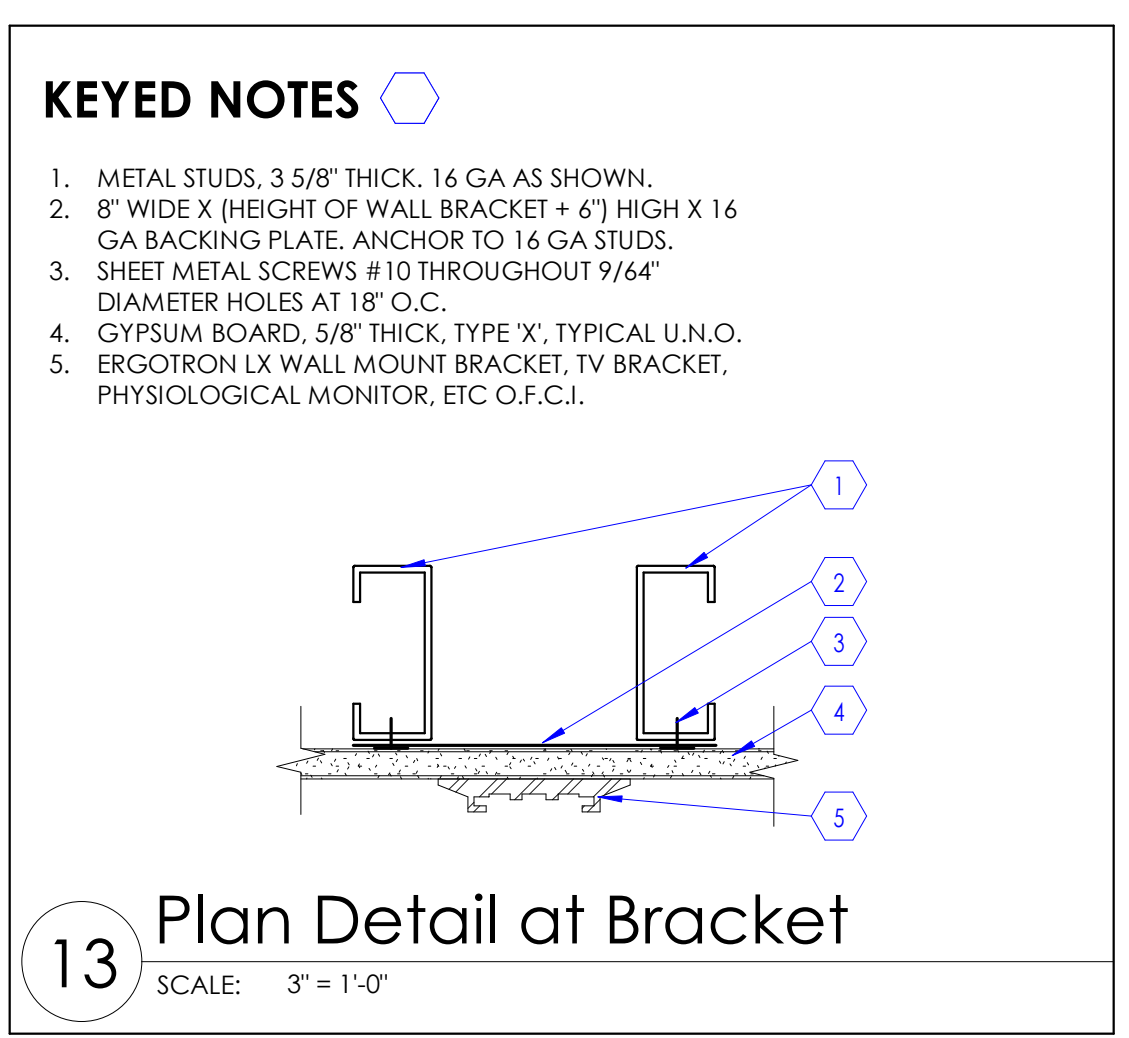
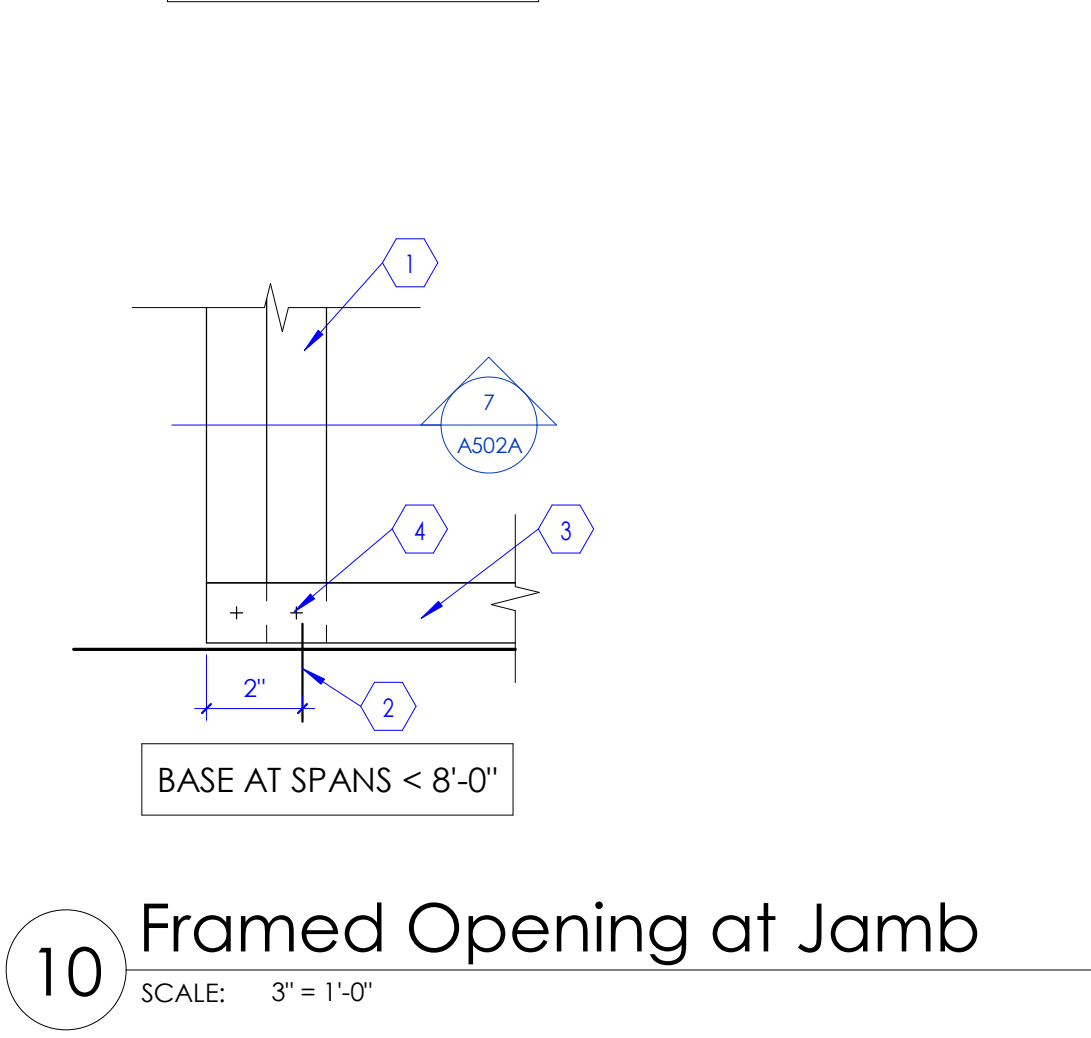
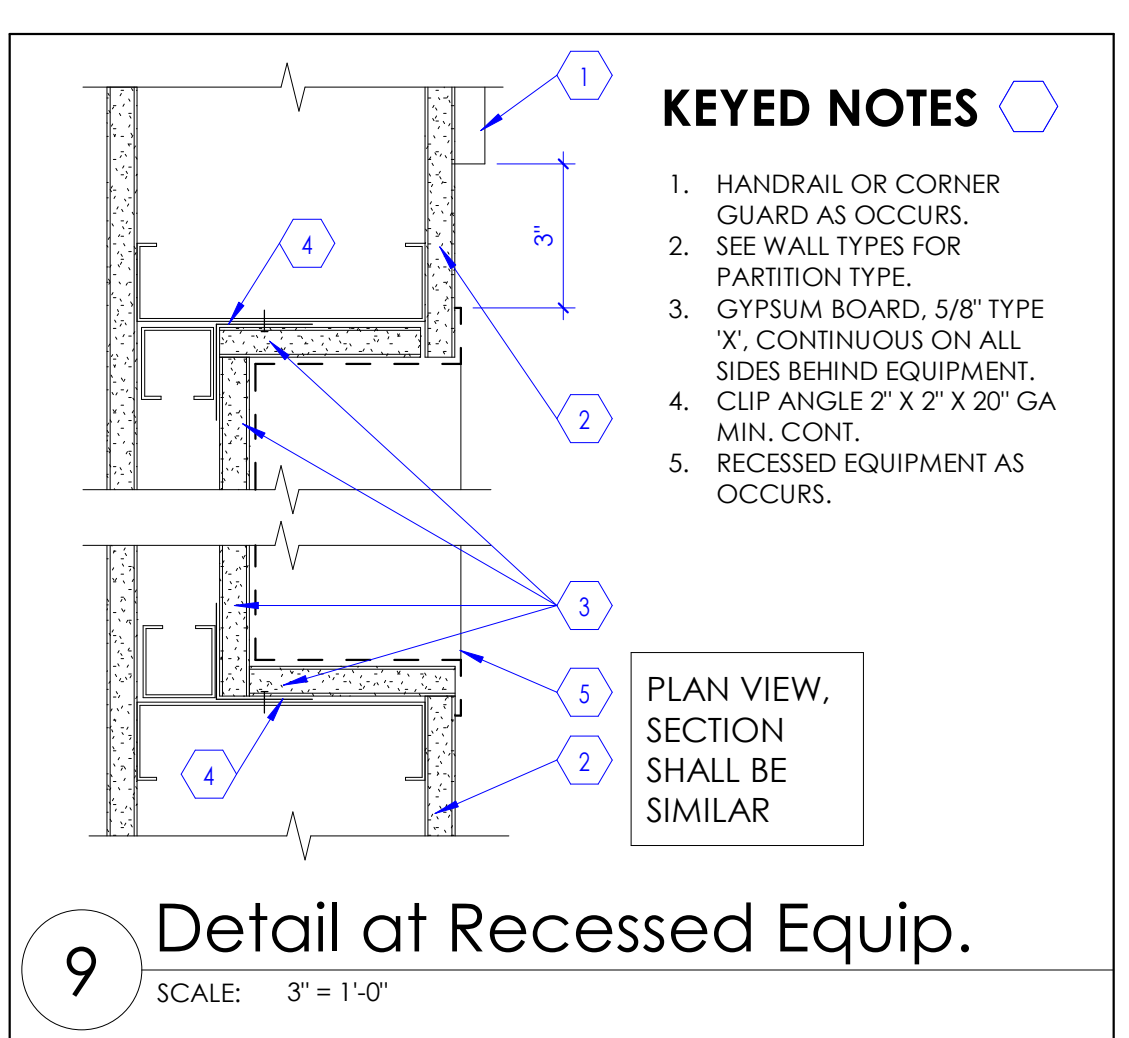
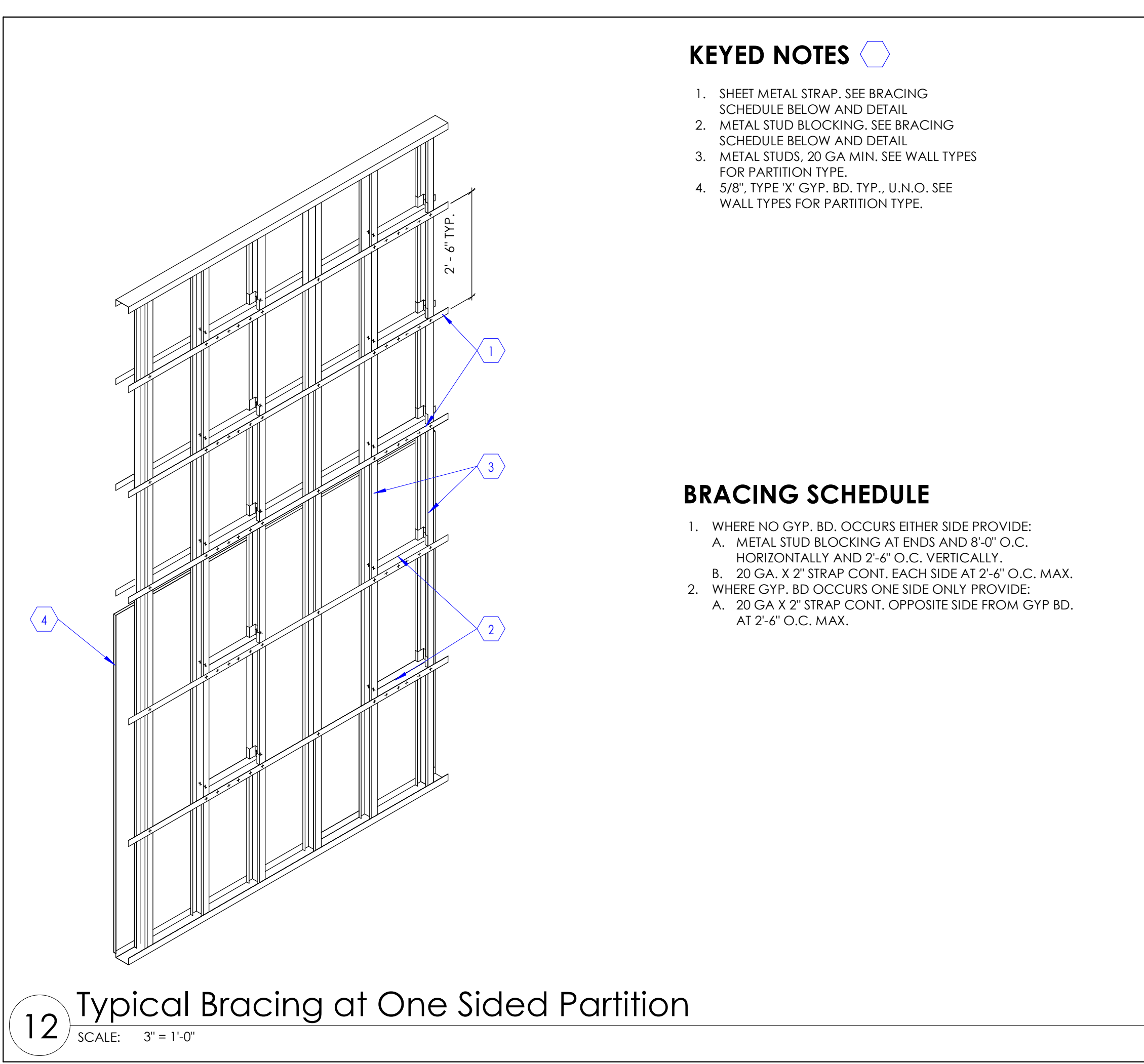
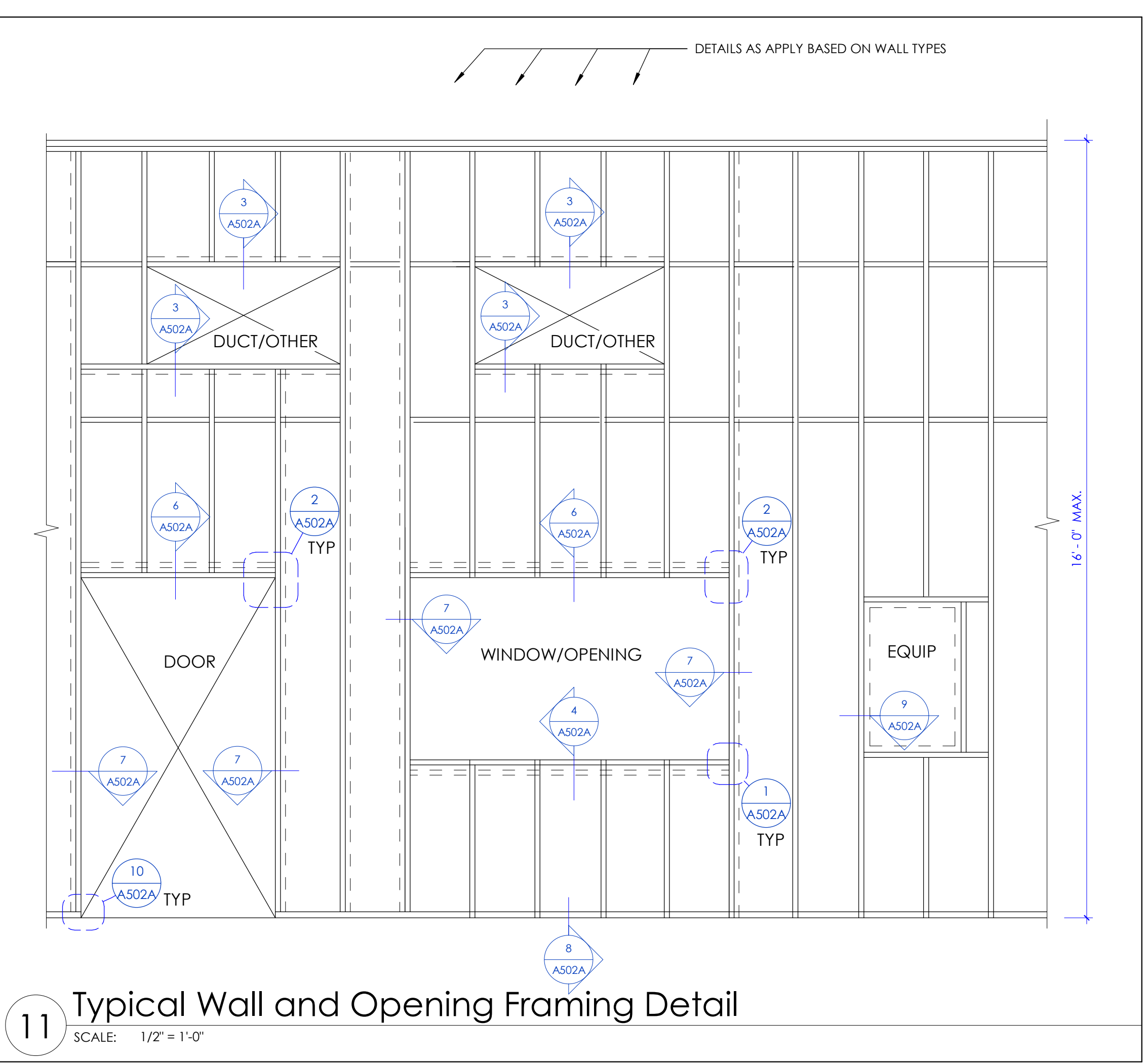
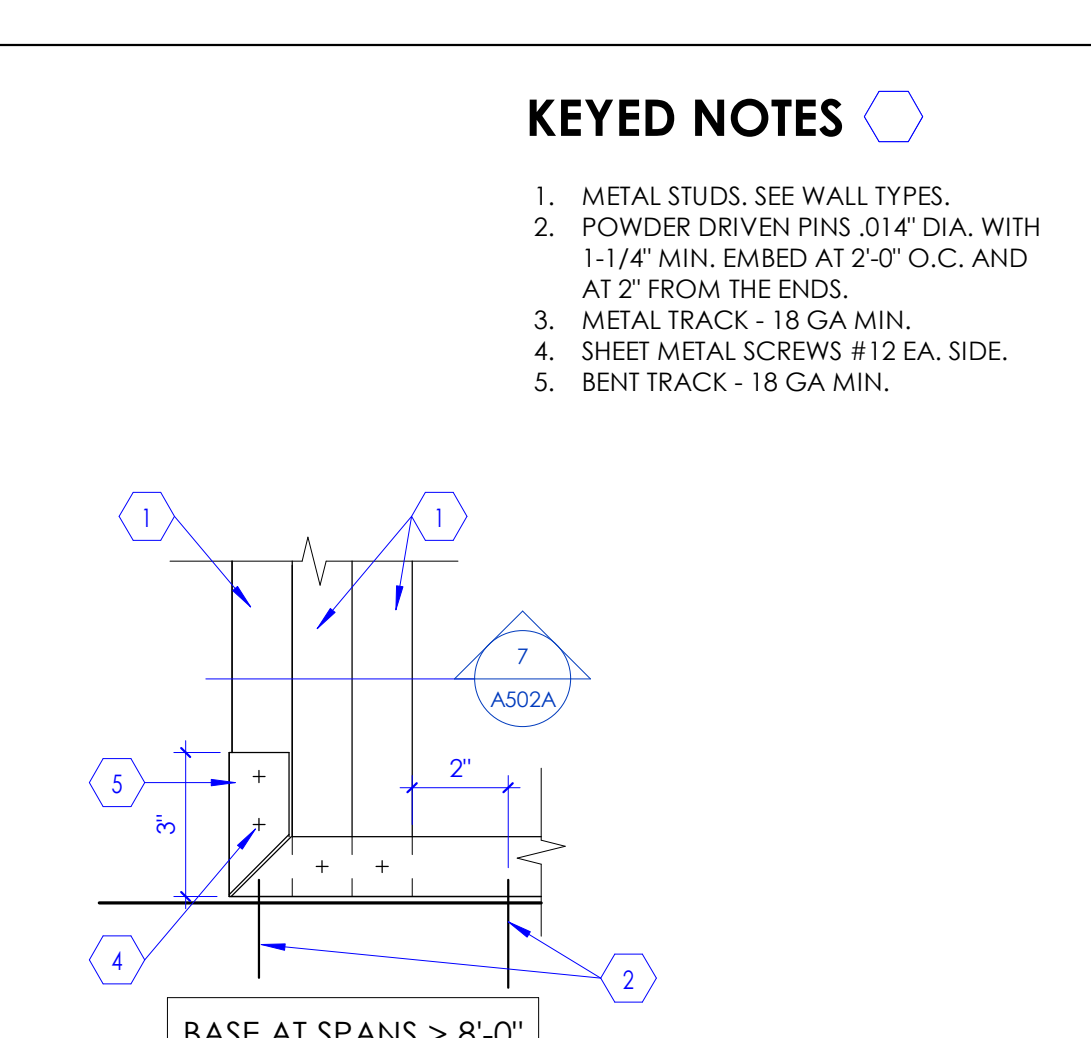
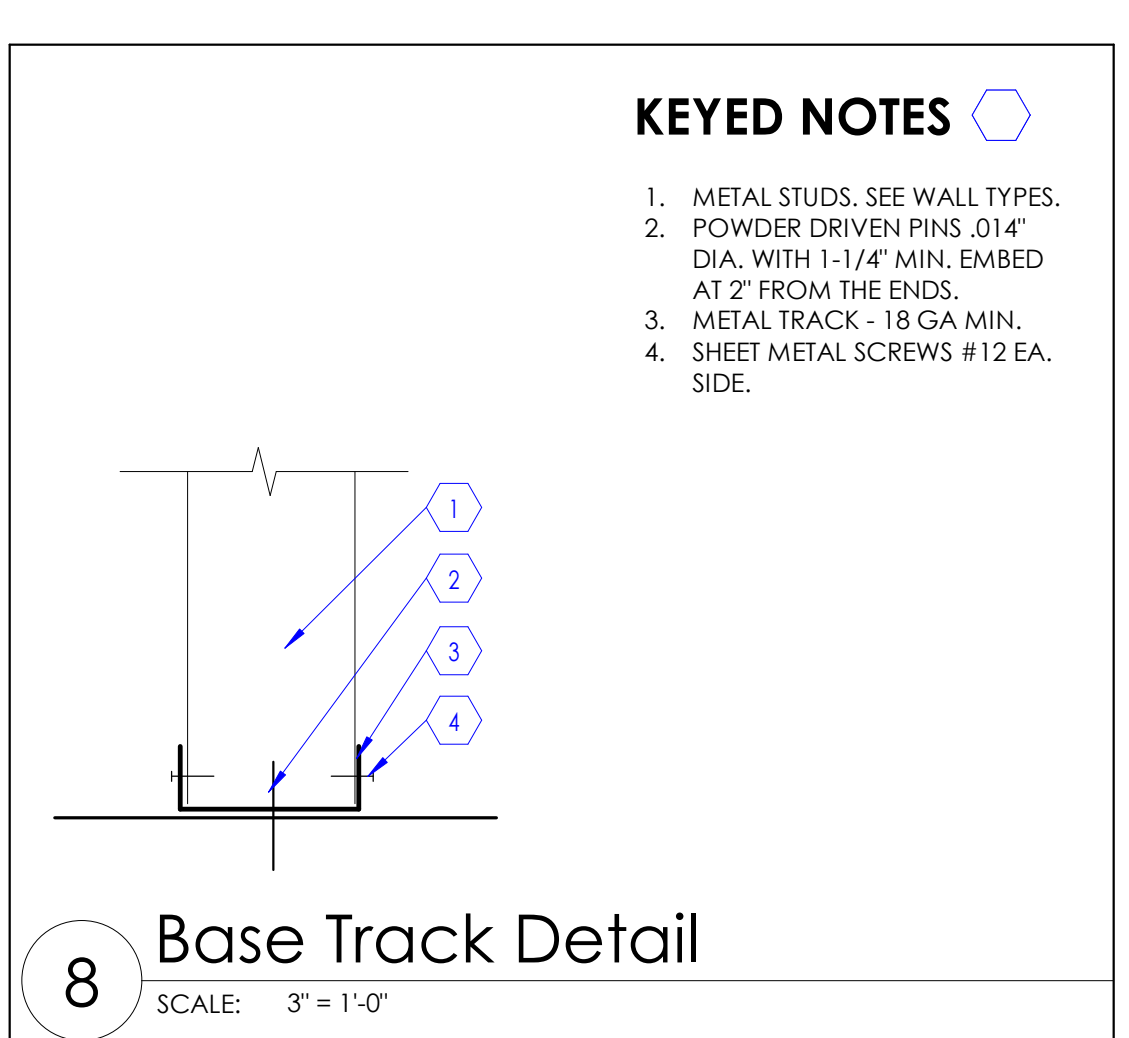
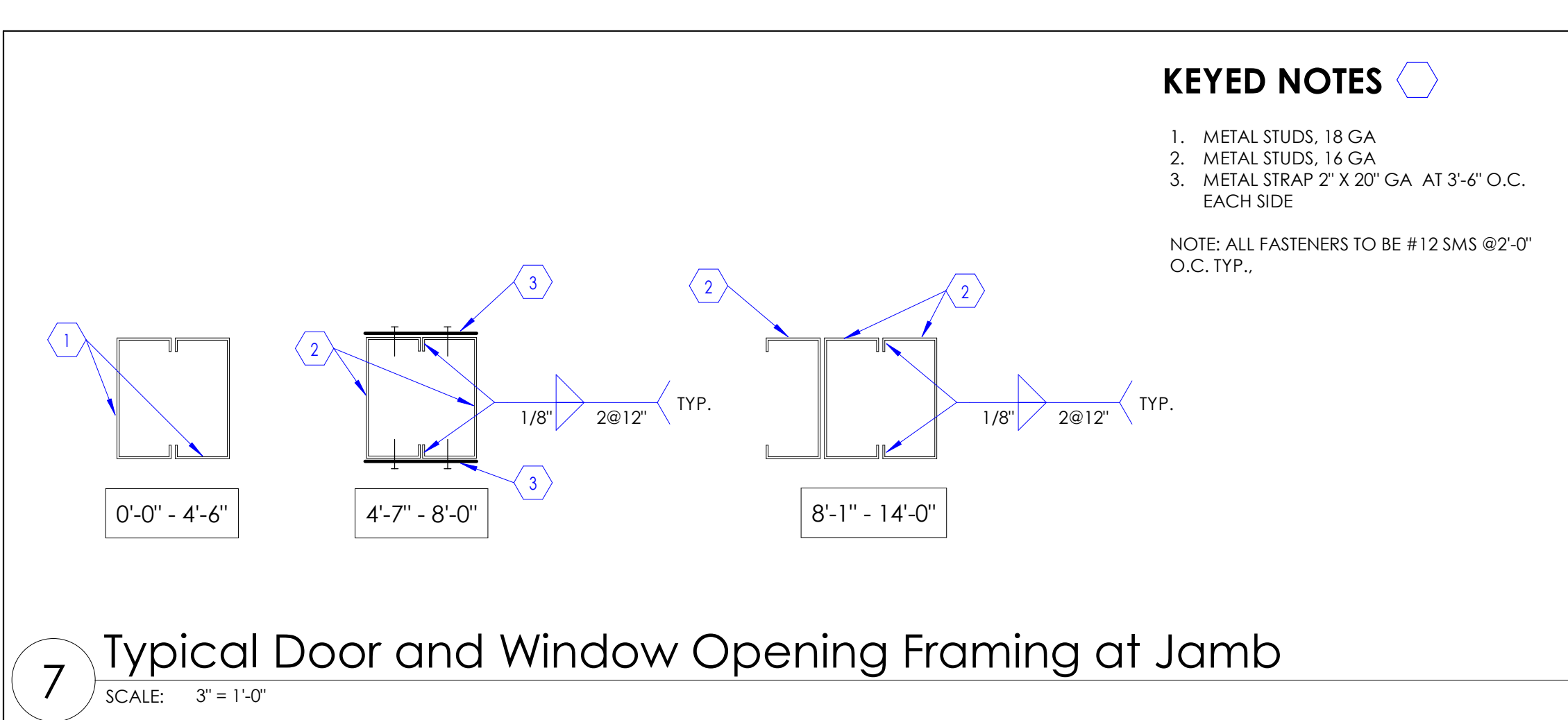
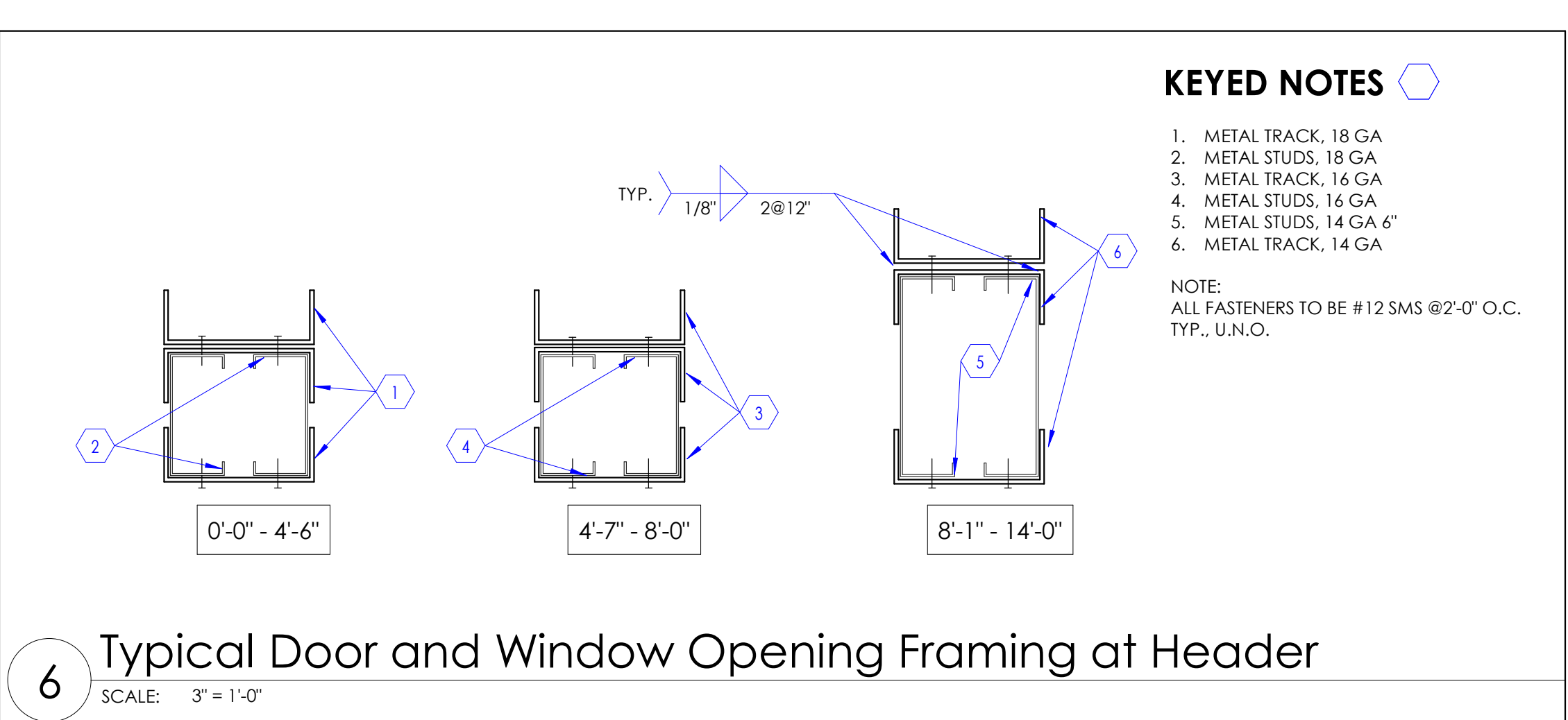
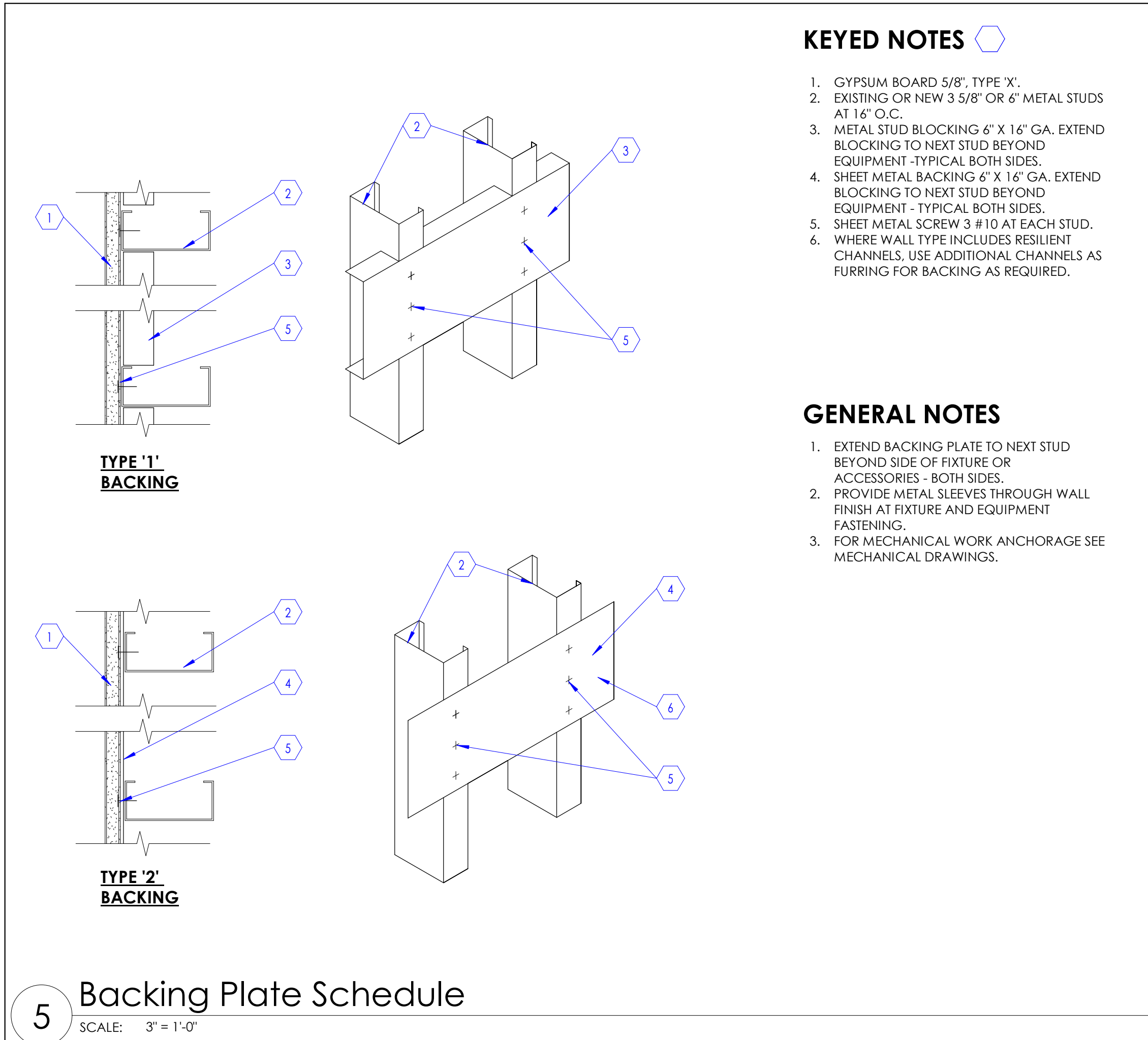
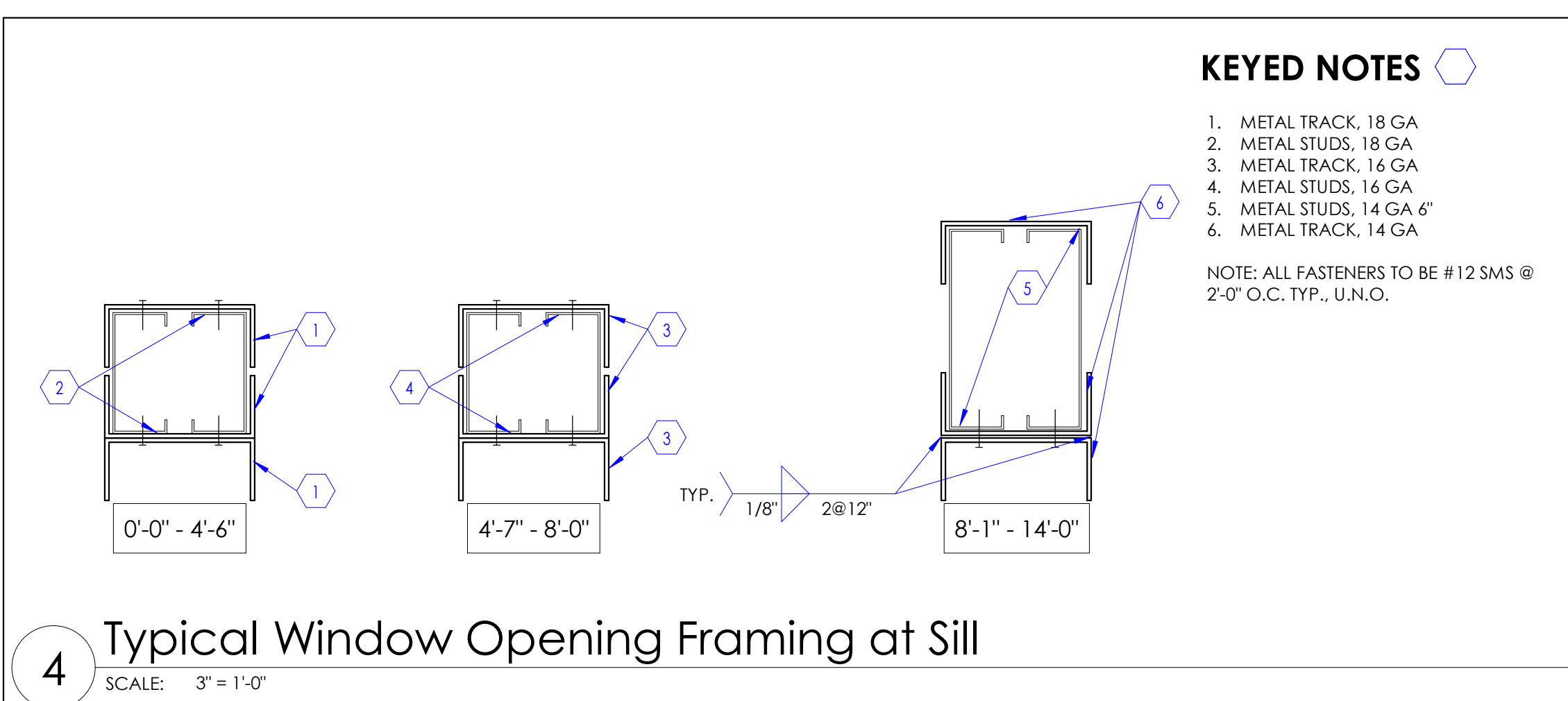
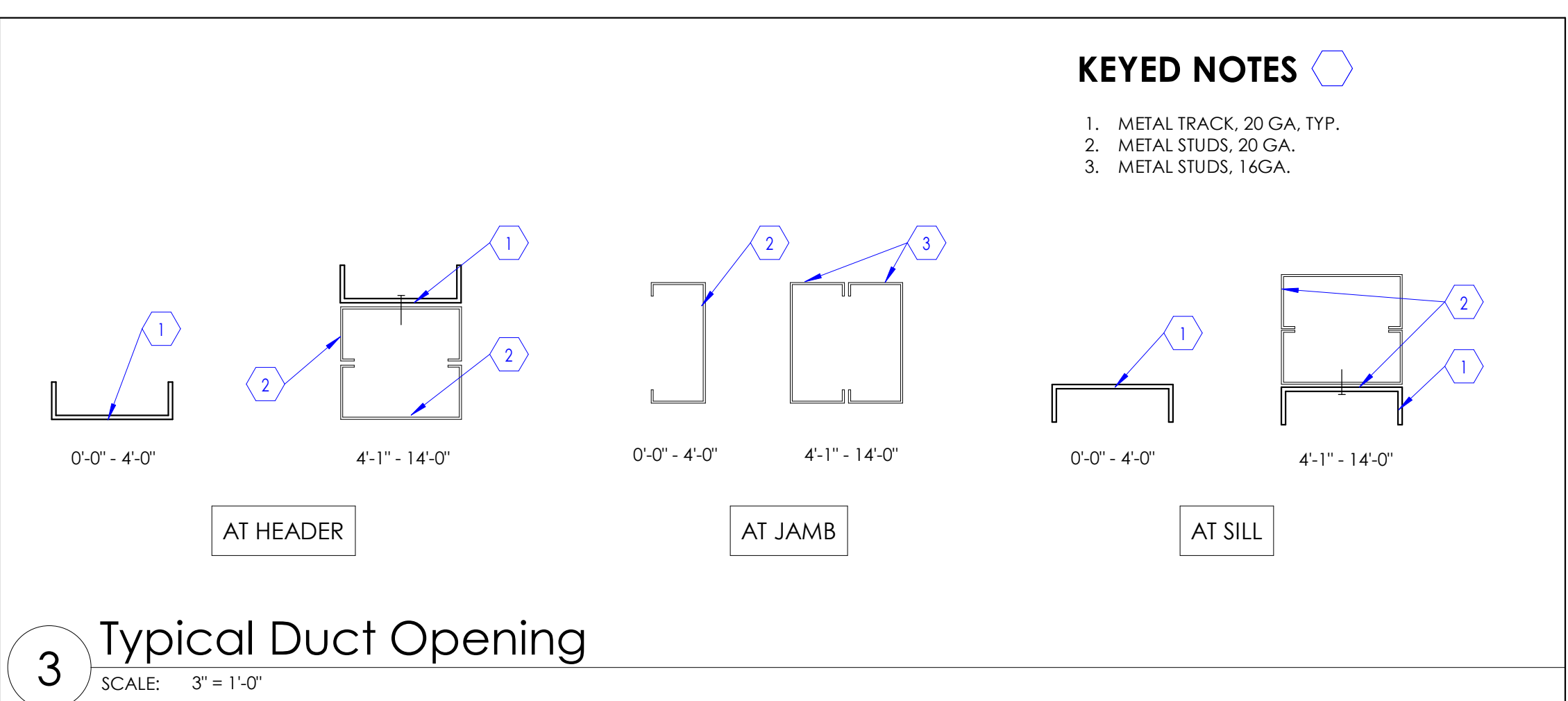
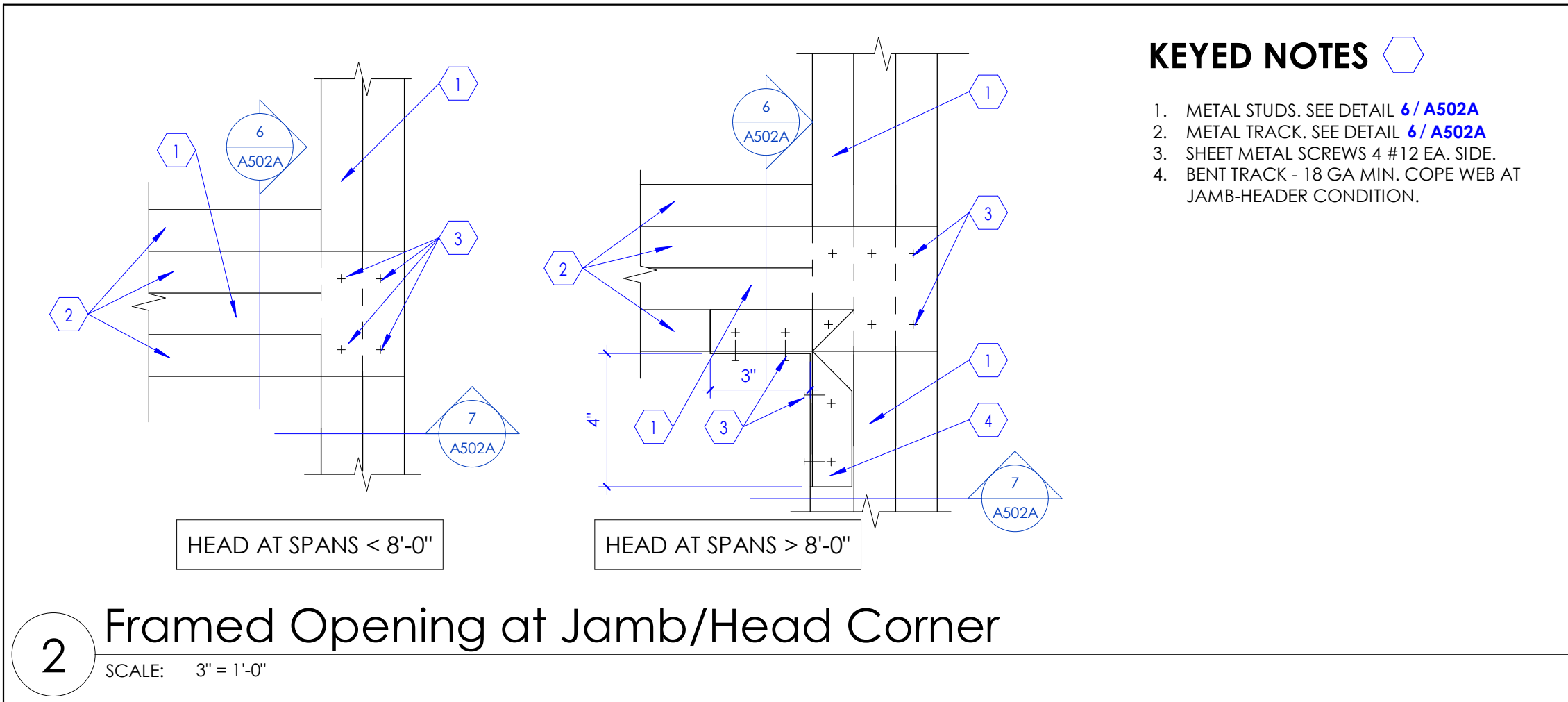
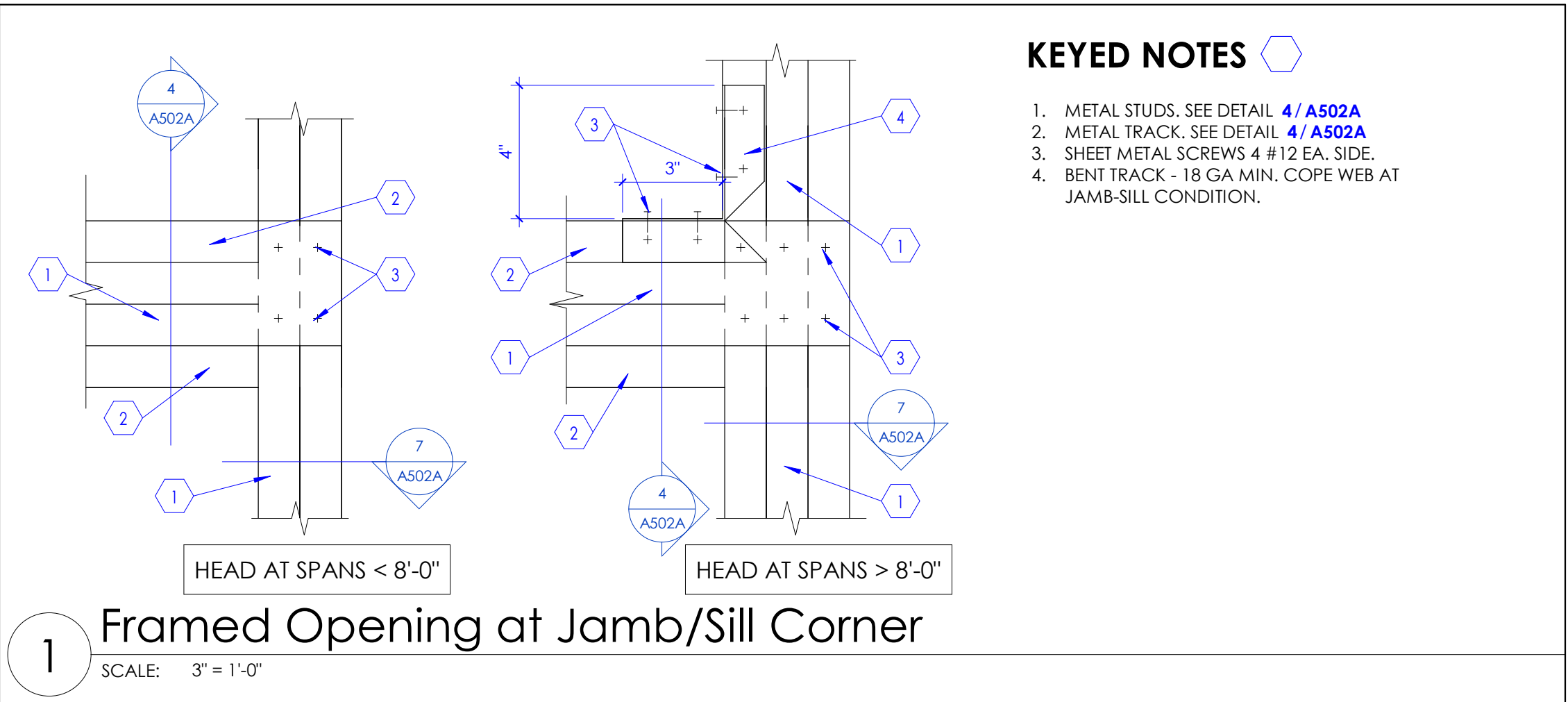
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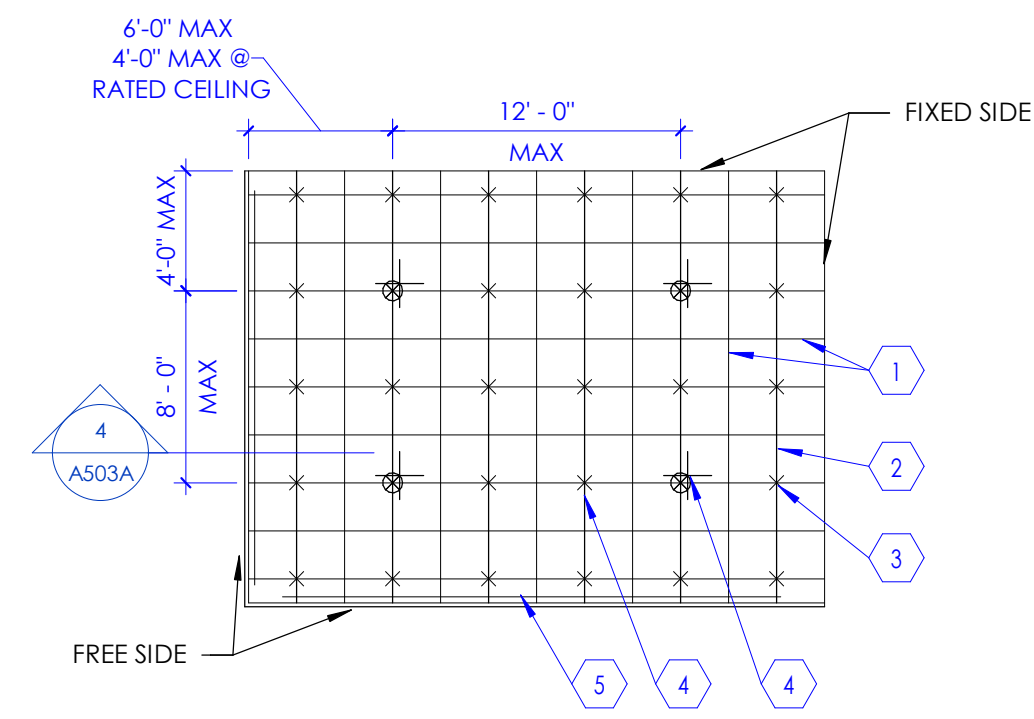


1 Wall Types

(Note: See dimension floor plans for locations of wall types used in this project. Some wall types shown above may not be used in this project.)

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





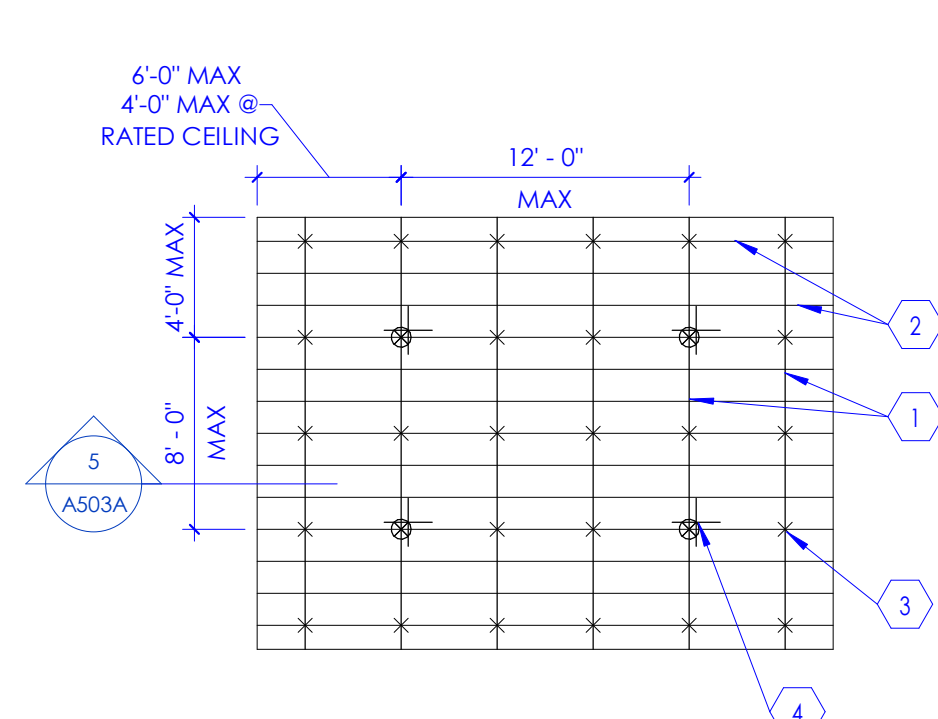
KEYED NOTES

1. EXPOSED CROSS GRID MEMBER @ 2'-0" O.C.
2. EXPOSED MAIN GRID MEMBER @ 4'-0"
3. HANGER WIRE 12 GA. @ 4'-0" O.C. MAX EACH WAY.
4. SEISMIC RESTRAINT. SEE DETAIL 7 / A503A
5. SLOTTED ANGLE SPACER.

NOTE:
EXCEPT WHERE RIGID BRACES ARE USED TO LIMIT LATERAL DEFLECTIONS, SPRINKLER HEADS AND OTHER PENETRATIONS SHALL HAVE A 2" OVERSIZE RING, SLEEVE, OR ADAPTER THROUGH THE CEILING TO ALLOW FOR FREE MOVEMENT OF AT LEAST 1" IN ALL HORIZONTAL DIRECTIONS.

1 Typical Acoustical Ceiling Suspension

SCALE: 1/8" = 1'-0"

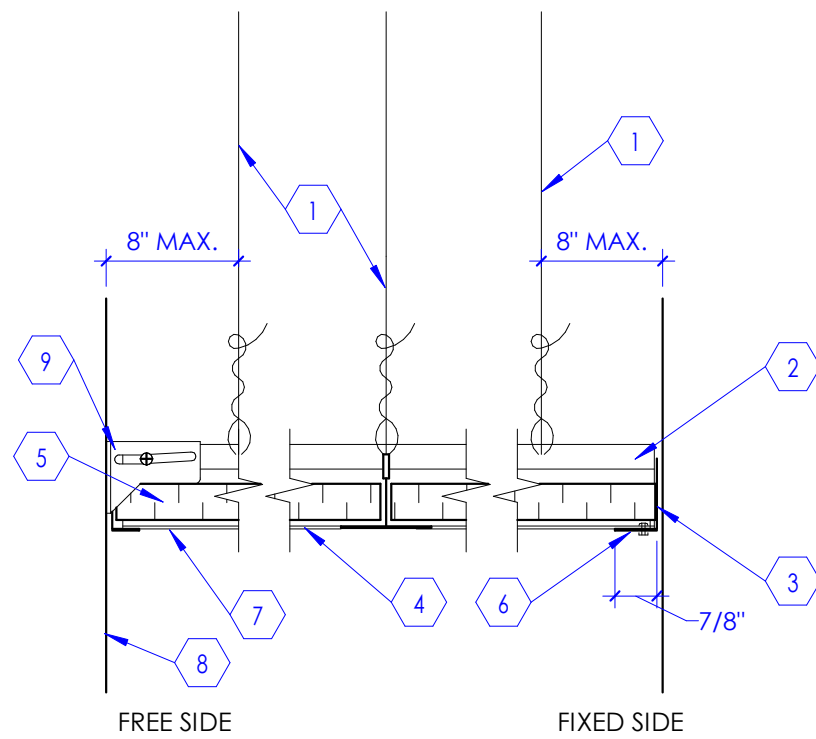


KEYED NOTES

1. MAIN RUNNER 1 1/2" @ 4'-0" O.C.
2. FURRING CHANNEL @ 1'-4" O.C.
3. HANGER WIRE 6 GA. @ 4'-0" O.C. MAX EACH WAY
4. SEISMIC RESTRAINT. SEE DETAIL 8 / A503A

2 Typical Gypsum Bd Ceiling Suspension

SCALE: 1/8" = 1'-0"



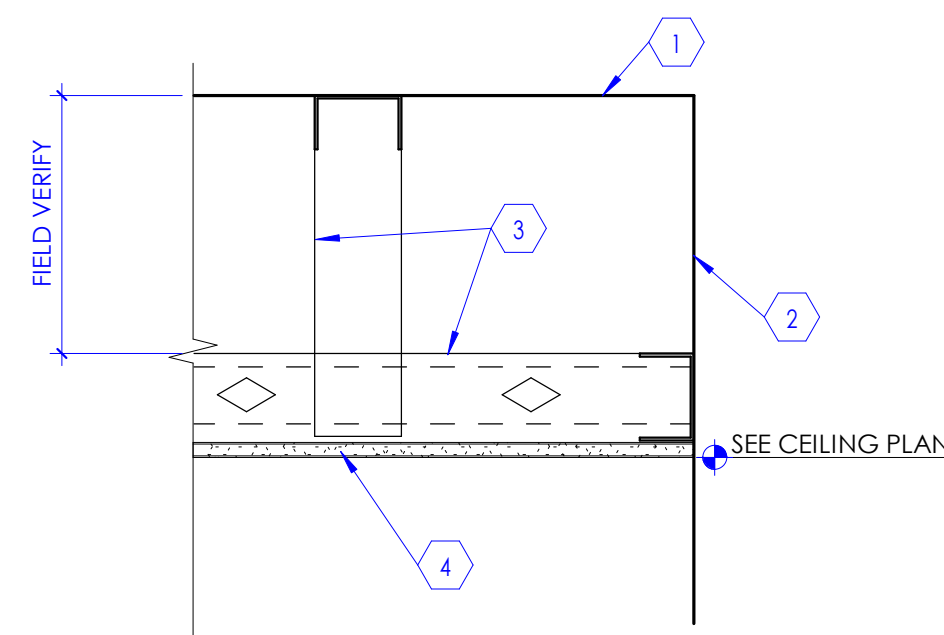
KEYED NOTES

1. CLASS 1 ZINC COATED, SOFT TEMPERED WIRES, 12 GAUGE MIN.
2. PROVIDE 3/4" GAP BETWEEN CEILING GRID AND ANGLE ON TWO ADJACENT SIDES OF THE ROOM. DO NOT ATTACH CEILING GRID TO WALL ANGLE.
3. ATTACH CEILING GRID TO WALL ANGLE ON TWO ADJACENT SIDES OF THE ROOM (FIXED SIDES).
4. EXPOSED CROSS RUNNER ATTACHED TO MAIN RUNNERS.
5. ACOUSTICAL CEILING TILES. SEE CEILING PLANS.
6. 7/8" SUPPORTING CLOSURE ANGLE AT CEILING PERIMETER ATTACHED TO WALL.
7. EXPOSED MAIN RUNNER SHALL BE HEAVY DUTY T-BAR GRID SYSTEM SUSPENDED FROM STRUCTURE ABOVE. THIS END OF THE GRID SHALL REST UPON AND BE FREE TO SLIDE ON THE CLOSURE ANGLE.
8. LINE OF WALL.
9. SEISMIC CLIPS. BASIS OF DESIGN ARMSTRONG BERG 2 CLIPS IN LIEU OF 2" WALL ANGLE PER ICC-ESR 1308.

NOTE:
EXCEPT WHERE RIGID BRACES ARE USED TO LIMIT LATERAL DEFLECTIONS, SPRINKLER HEADS AND OTHER PENETRATIONS SHALL HAVE A 2" OVERSIZE RING, SLEEVE, OR ADAPTER THROUGH THE CEILING TO ALLOW FOR FREE MOVEMENT OF AT LEAST 1" IN ALL HORIZONTAL DIRECTIONS.

4 Ceiling Grid Detail

SCALE: 3" = 1'-0"

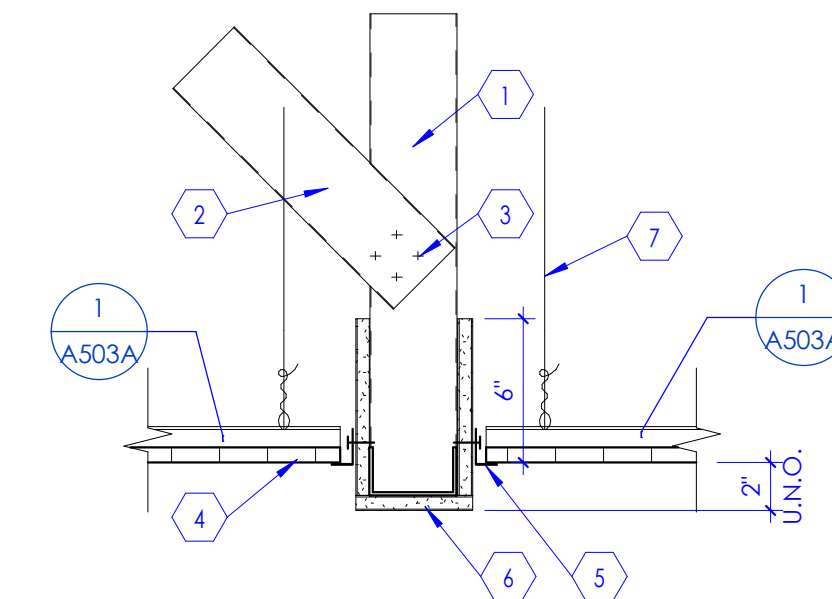


KEYED NOTES

1. LINE OF STRUCTURE ABOVE.
2. LINE OF WALL.
3. METAL STUD FRAMING (3-5/8" THICK, 18 GAUGE, METAL STUDS AT 1'-4" O.C.) SUSPENDED FROM STRUCTURE ABOVE (OR WALL WHERE OCCURS). CROSS BRACE FRAMING AS REQUIRED FOR STRUCTURAL RIGIDITY.
4. ATTACH 5/8" THICK, TYPE 'X', GYPSUM BOARD TO METAL STUD FRAMING.

5 Ceiling Detail

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

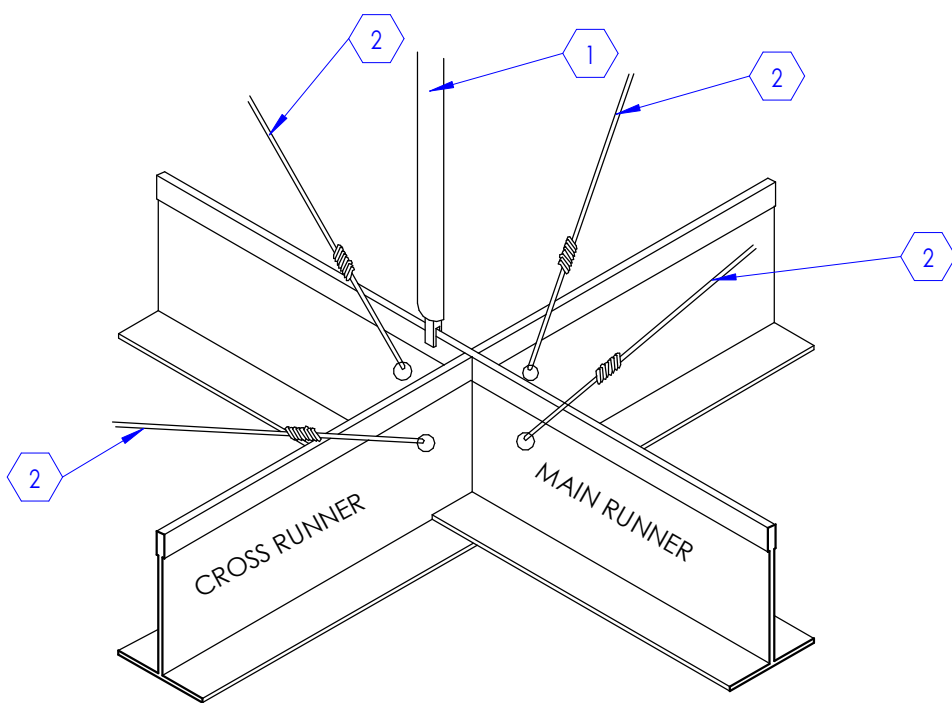


KEYED NOTES

1. METAL STUD FRAMING 3 5/8" X 18 GA STUDS, SUSPENDED FROM STRUCTURE ABOVE @ 16" O.C. SEE DETAIL 1 / A503A
2. METAL STUD 3-5/8" X 18 GA LATERAL (45 DEGREE) BRACING AT 4'-0" O.C. CONNECT TO STRUCTURE ABOVE.
3. SHEET METAL SCREWS (4) #10.
4. ACOUSTICAL CEILING PANEL. SEE REFLECTED CEILING PLANS.
5. PERIMETER ANGLE MOLDING. SEE DETAIL 4 / A503A
6. GYPSUM BOARD 5/8" TYPE 'X', TYP.
7. HANGER WIRES 12 GA, TYP.

6 Gypsum Board Header

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



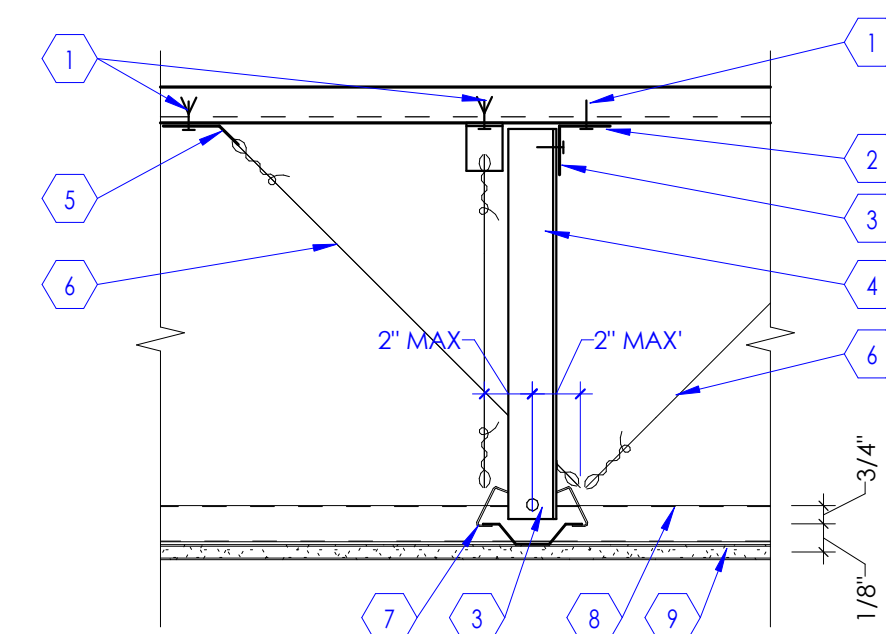
KEYED NOTES

1. RIGID HORIZONTAL RESTRAINT FROM CEILING GRID TO STRUCTURE ABOVE.
 2. CLASS 1 ZINC COATED, SOFT TEMPERED WIRES, 12 GAUGE MIN.
- NOTE:
A. CEILING GRIDS IN ROOMS OR AREAS GREATER THAN 1,000 SQ. FT. SHALL HAVE A RIGID HORIZONTAL RESTRAINT FROM CEILING TO STRUCTURE ABOVE AT EVERY 144 SQ. FT.
B. ALL PLAYED WIRES SHALL BE AT 45 DEGREES ANGLES, 12 GAUGE AND GALVANIZED.
C. WHEN CEILING AREA EXCEEDS 2,500 SQ. FT. PROVIDE SEISMIC SEPARATION JOINT APPROVED BY CEILING GRID MANUFACTURER AND ARCHITECT.

NOTE: EXCEPT WHERE RIGID BRACES ARE USED TO LIMIT LATERAL DEFLECTIONS, SPRINKLER HEADS AND OTHER PENETRATIONS SHALL HAVE A 2" OVERSIZE RING, SLEEVE, OR ADAPTER THROUGH THE CEILING TO ALLOW FOR FREE MOVEMENT OF AT LEAST 1" IN ALL HORIZONTAL DIRECTIONS.

7 Ceiling Detail

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

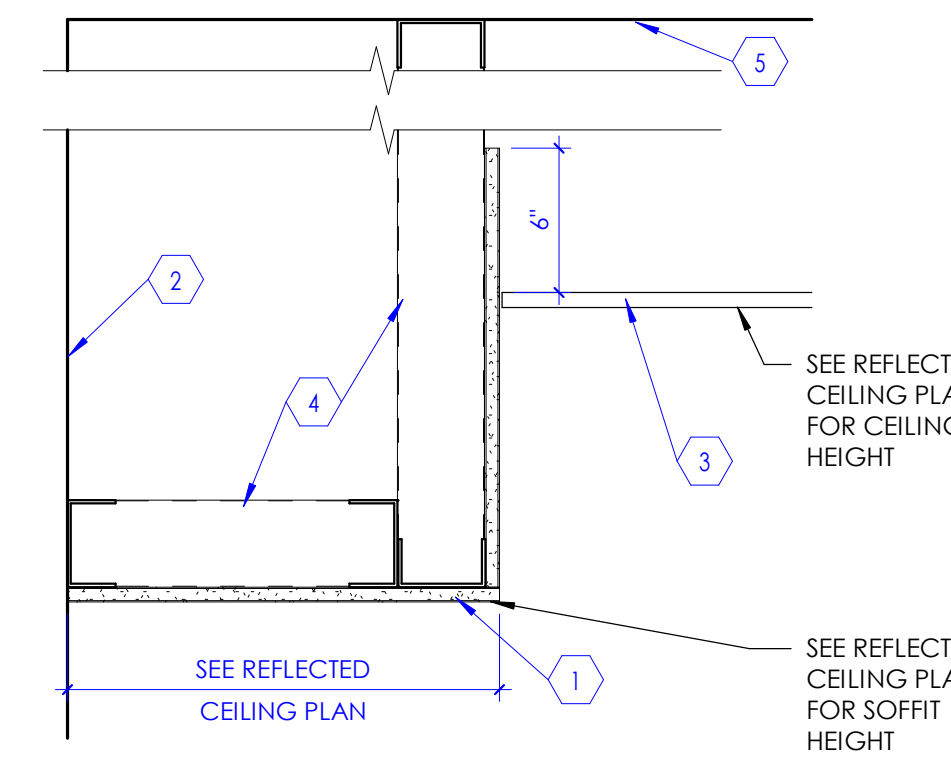


KEYED NOTES

1. SHEET METAL #12 SCREWS
2. METAL CLIP 12 GA MIN X 3/4" W.
3. MACHINE BOLT 1/2" DIA. MIN.
4. ANGLE STRUT OR CHANNEL
5. METAL CLIP 1" W X 2" X 12 GA. MIN.
6. DIAGONAL HANGER WIRES 12 GA MIN. - 4 SIDES.
7. FURRING CHANNEL, 7/8" THICK, @ 1'-4" O.C. MAXIMUM.
8. METAL RUNNER CHANNELS, 1 1/2" THICK AT 48" O.C.
9. GYPSUM BOARD 5/8" THICK ATTACHED TO METAL FURRING CHANNEL.

8 Gypsum Board Ceiling Seismic Restraint Detail

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

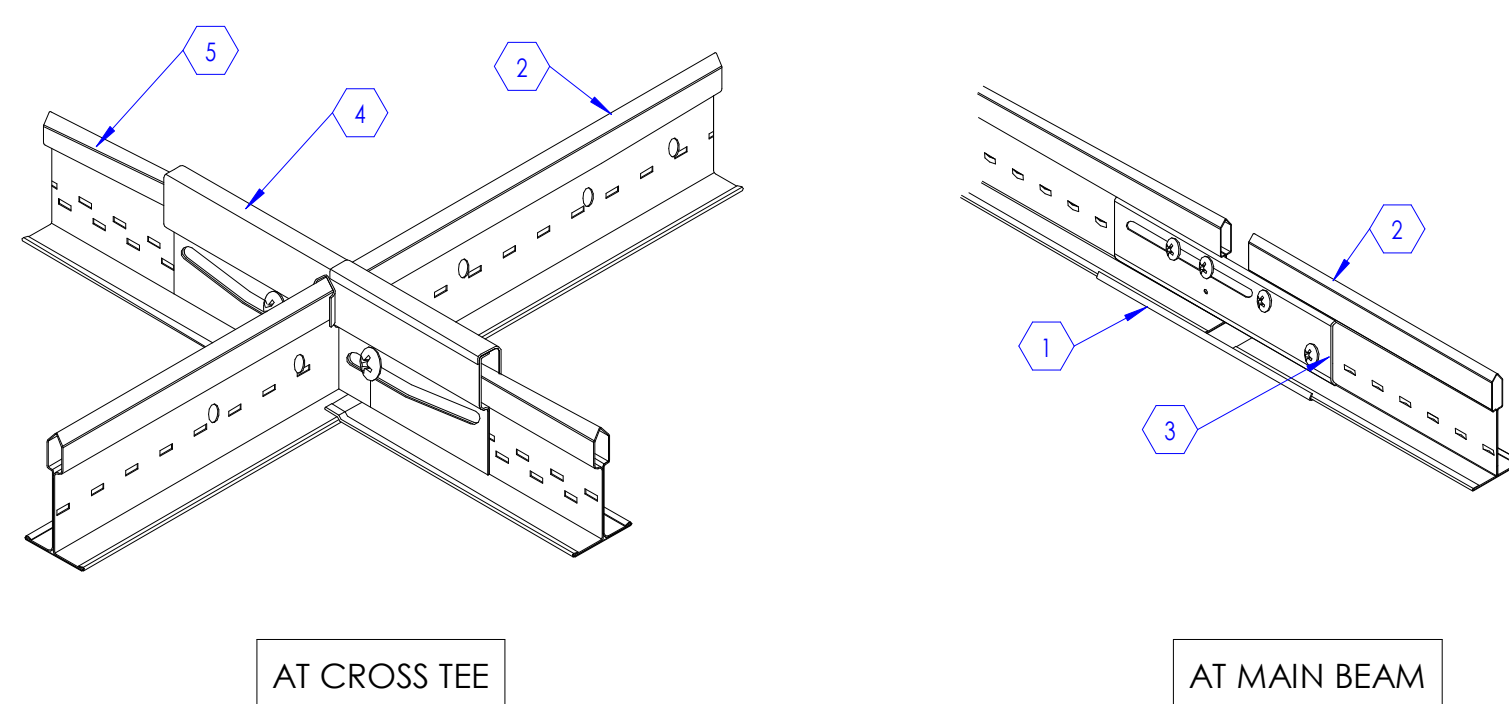


KEYED NOTES

1. GYPSUM BOARD, 5/8" THICK (USE TYPE 'X' IF WALLS ARE FIRE RATED) ATTACHED TO METAL STUD FRAMING.
2. LINE OF WALL.
3. LINE OF CEILING AS OCCURS. SEE REFLECTED CEILING PLAN FOR CEILING TYPE.
4. METAL STUD FRAMING 3 5/8" THICK, 20 GAUGE STUDS, SUSPENDED FROM STRUCTURE ABOVE. STUDS SHALL BE AT 16" O.C.
5. LINE OF STRUCTURE ABOVE.

9 Gypsum Board Soffit

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

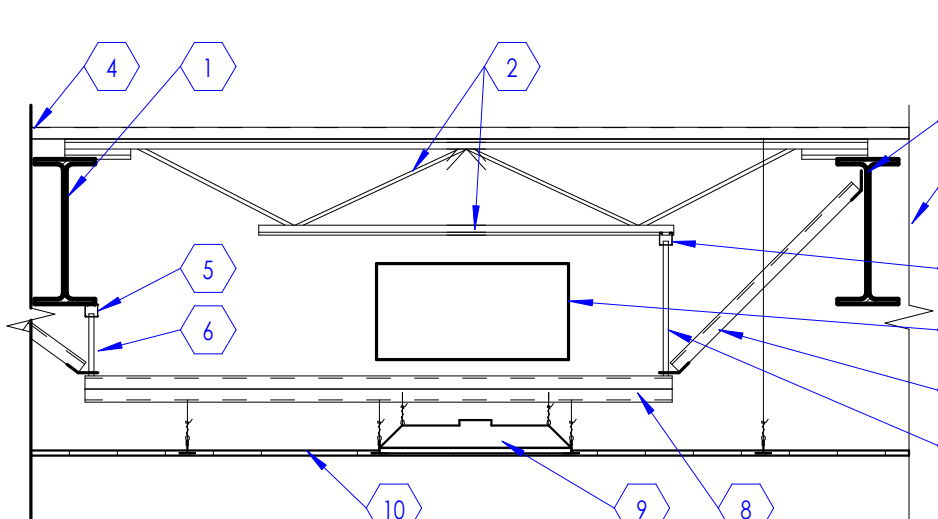


KEYED NOTES

1. EXPANSION SLEEVE 4"x15/16", BASIS OF DESIGN: ARMSTRONG E54. COLOR: WHITE.
2. MAIN BEAM, BASIS OF DESIGN: ARMSTRONG PRELUDE 15/16"XL EXPOSED TEE SYSTEM.
3. SEISMIC SEPARATION JOINT CLIP. BASIS OF DESIGN: ARMSTRONG SJMR-4"x1".
4. SEISMIC SEPARATION JOINT CLIP. BASIS OF DESIGN: ARMSTRONG SJCS-5"x1-1/2".
5. CROSS TEES, BASIS OF DESIGN: ARMSTRONG PRELUDE 15/16"XL EXPOSED TEE SYSTEM.

10 Seismic Separation Joint Clip Detail

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



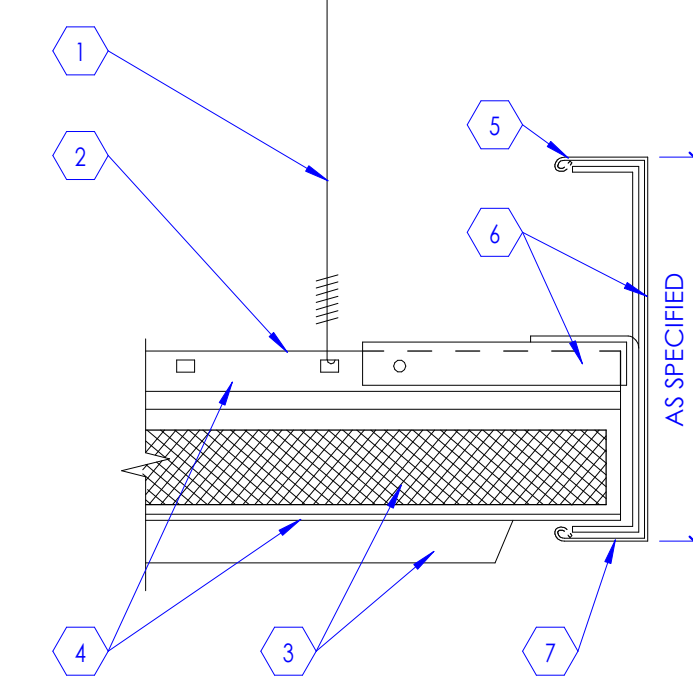
KEYED NOTES

1. STEEL BEAM AS OCCURS.
2. STEEL JOIST AS OCCURS.
3. MECHANICAL DUCTS. SEE MECHANICAL DRAWINGS
4. LINE OF WALL.
5. UNISTRUT P1000, 6" LONG SUSPENDED FROM STRUCTURE ABOVE
6. THREADED ROD, 5/8" THICK. PROVIDE NUTS, WASHERS, CLAMPS, ETC. AS REQUIRED FOR COMPLETE INSTALLATION.
7. UNISTRUT, P1000, CROSS BRACE TO STRUCTURE. PROVIDE NUTS WASHERS CLAMPS ETC. AS REQUIRED FOR COMPLETE INSTALLATION.
8. UNISTRUT, P1001 @ 2'-0" O.C. SUSPENDED FROM STRUCTURE ABOVE.
9. LIGHT FIXTURE SUSPENDED FROM UNISTRUT ONLY. DO NOT HANG FIXTURES FROM DUCTS.
10. CEILING SEE ROP FOR HEIGHT. SUSPEND CEILING GRID FROM UNISTRUT ONLY. CONTRACTOR SHALL NOT SUSPEND LIGHTS, GRIDS, ETC. FROM DUCTS.

NOTE:
CONTRACTOR SHALL PROVIDE UNISTRUTS AS INDICATED IN THIS DETAIL WHEREVER DUCT INTERFERES WITH CEILING SUSPENSION SYSTEM.

11 Suspended Ceiling Trapeze Detail

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



KEYED NOTES

1. CLASS 1 ZINC COATED, SOFT TEMPERED WIRES, 12 GA MIN.
2. EXPOSED CROSS RUNNER ATTACHED TO MAIN RUNNERS.
3. ACOUSTICAL CEILING TILES. SEE CEILING PLANS.
4. EXPOSED MAIN RUNNER. SUSPENDED FROM STRUCTURE ABOVE.
5. FINISHED SUSPENSION TRIM, 4" BY CEILING SUPPLIER.
6. INTERSECTION TEE ATTACHMENT CLIP.
7. TRIM COLOR SHALL MATCH GRID COLOR.

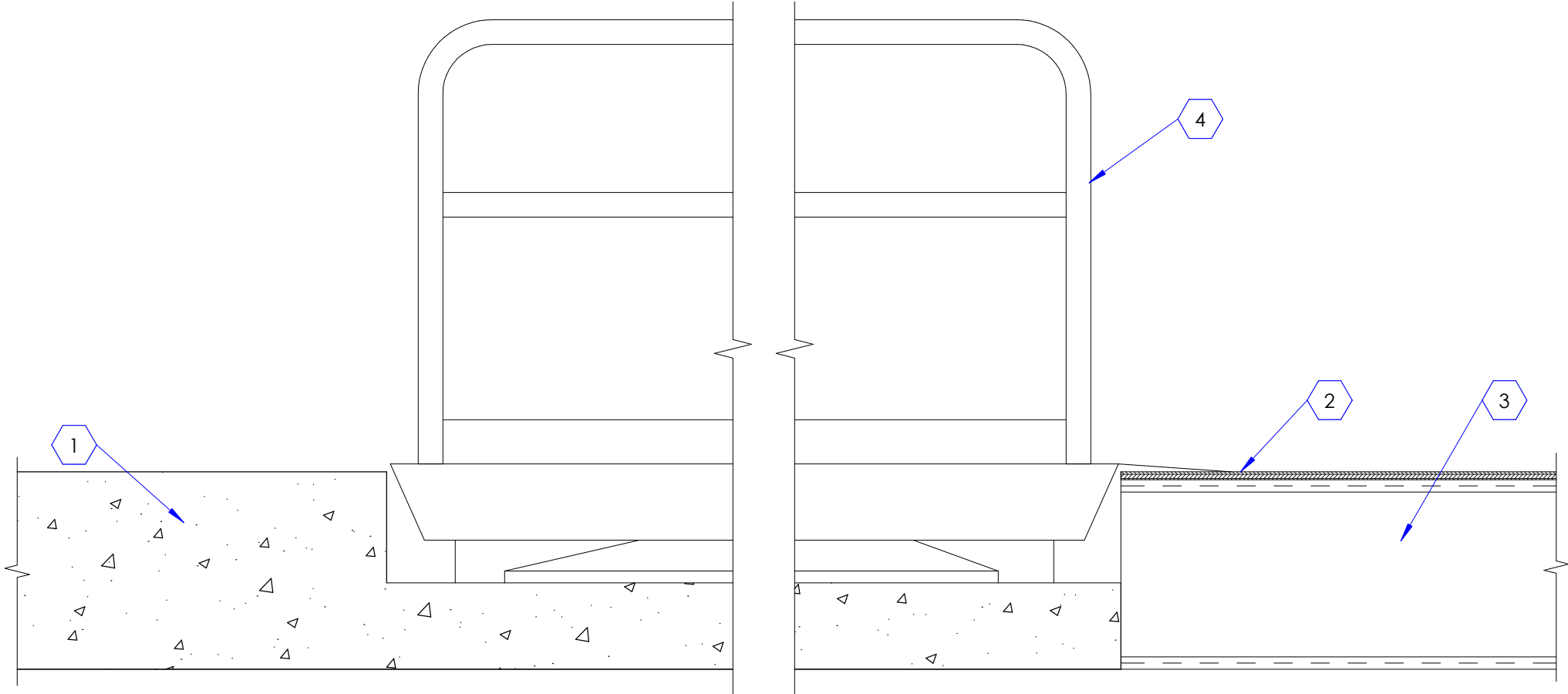
12 Ceiling Trim Detail

SCALE: N.T.S.

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KEYED NOTES

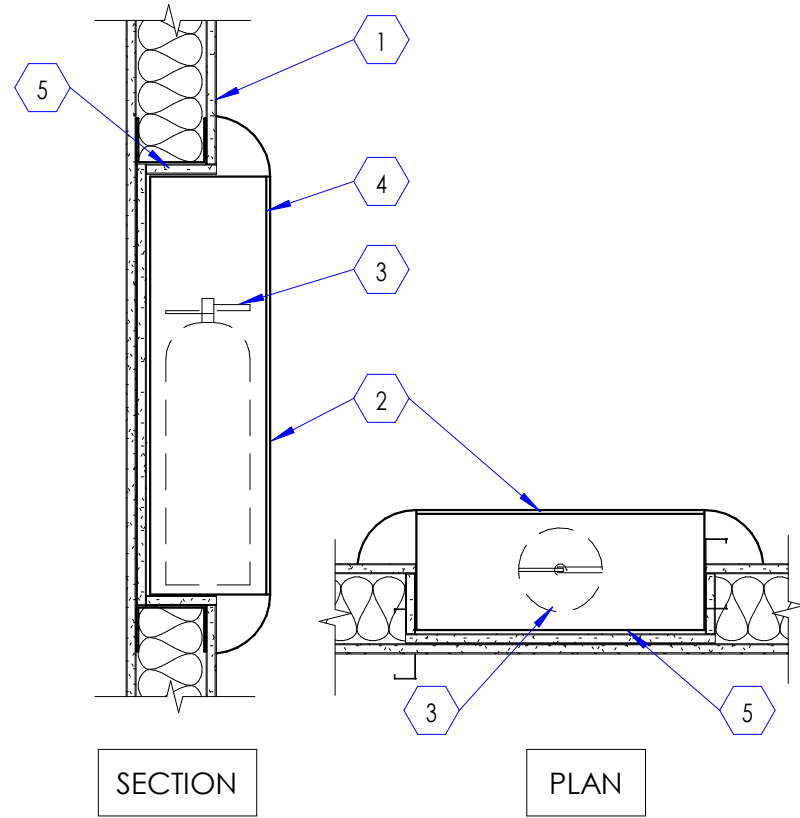
1. CONCRETE BASE, SEE STRUCTURAL DRAWINGS.
2. PLYWOOD DECKING, SEE STRUCTURAL DRAWINGS.
3. FLOOR JOIST, SEE STRUCTURAL DRAWINGS.
4. TRUCK SCISSOR DOCK LIFT.



1 Floor Section - Dock Lift
SCALE: 1" = 1'-0"

KEYED NOTES

1. GYPSUM BOARD, 5/8" THICK, (USE TYPE 'X' IF WALLS ARE FIRE RATED) ATTACHED TO METAL STUD.
2. FIRE EXTINGUISHER CABINET, SEMI RECESSED. VERIFY WITH MANUFACTURER FOR ROUGH OPENING SIZE REQUIREMENTS.
3. HAND HELD FIRE EXTINGUISHER.
4. CABINET DOOR.
5. COVER ALL SIDES OF CABINET WITH 5/8" THICK, TYPE 'X' GYPSUM BOARD.



AT GYPSUM BOARD WALL
FIRE EXTINGUISHER RECESSED CABINET AT GYPSUM BOARD WALL

2 Fire Extinguisher Cabinet Detail
SCALE: 1" = 1'-0"

1 Door Types

NOTE: REFER TO "DOOR SCHEDULE" TABLE FOR DOOR TYPES REQUIRED FOR THIS PROJECT. SOME DOOR TYPE ELEVATIONS INDICATED ABOVE, MAY NOT BE APPLICABLE TO THIS PROJECT.

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



KEYED NOTES

- VISION PANEL, GLAZING IN VISION PANEL SHALL BE 1/4" THICK, CLEAR, TEMPERED, GLAZING, FOR WOOD DOOR. PROVIDE WOOD TRIM FRAME FLUSH WITH THE FACE OF THE DOOR, AROUND THE VISION PANEL OPENING. STAIN AND SPECIES OF WOOD TRIM SHALL MATCH WOOD DOOR. FOR HOLLOW METAL DOOR, PROVIDE METAL TRIM AROUND VISION PANEL. GLAZING SHALL BE FIRE RATED IF DOORS ARE REQUIRED TO BE FIRE RATED.
- FOR EXTERIOR DOORS OF THIS TYPE, GLAZING SHALL BE TINTED, INSULATED, TEMPERED, LOW E, AND 1" THICK. FOR INTERIOR DOORS OF THIS TYPE, GLAZING SHALL BE CLEAR, TEMPERED AND 1/4" THICK. STAINLESS STEEL WELDED WIRE MESH (15 GAUGE) ATTACHED TO DOOR, PROVIDE FRAME AROUND THE OPENING IN DOOR TO SECURE THE MESH IN PLACE.
- METAL LOUVER IN DOOR FOR VENTILATION.

DOOR SCHEDULE

DOOR #	# OF PANELS	WIDTH		DOOR				FRAME			DETAILS			DOOR #	FIRE RATING (MINUTES)	HARDWARE GROUP	COMMENTS
		W1	W2	HEIGHT	THICKNESS	MATERIAL	TYPE (1/A601A)	TYPE (2/A601A)	DEPTH	MATERIAL	JAMB	HEAD	THRESHOLD				
A101A	1	3' - 0"		7' - 0"	1 3/4"	WD	A	1	8 1/4"	HM				A101A			1
A102A	2	3' - 0"		7' - 0"	1 3/4"	WD	A	1	8 1/4"	HM				A102A			3
A102B	1	3' - 0"		7' - 0"	1 3/4"	WD	A	1	8 1/4"	HM				A102B			1
A102D	2	3' - 0"		7' - 0"	1 3/4"	WD	A	1	8 1/4"	HM				A102D			2

COMMENTS

- PROVIDE HARDWARE AS BASIS OF DESIGN:

3 Hinge, Full Mortise	TA2714 (NRP)	US26D	MK
1 Storeroom Lock	45H7D 1SH	626	BE
1 Permanent Core	33600004N	26	MC
1 Surface Closer	4040XP Rw/PA	AL	LC
1 Kick Plate	K1050 10" CSK BEV	US32D	RO
1 Wall Stop	400/403 (type as required)	US26D	RO
3 Silencer	608-RKW		RO

- PROVIDE HARDWARE AS BASIS OF DESIGN:

6 Hinge, Full Mortise	TA2714 (NRP)	US26D	MK
1 Passage Set	45H0N 1SH	626	BE
2 Kick Plate	K1050 10" CSK BEV	US32D	RO
2 Wall Stop	400/403 (type as required)	US26D	RO
6 Silencer	608-RKW		RO

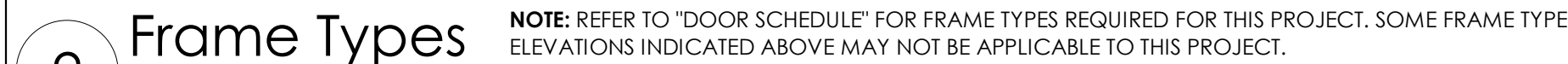
- PROVIDE HARDWARE AS BASIS OF DESIGN:

6 Hinge, Full Mortise	TA2714 (NRP)	US26D	MK
1 Storeroom Lock	45H7D 1SH	626	BE
1 Permanent Core	33600004N	26	MC
2 Surface Closer	4040XP Rw/PA	AL	LC
2 Kick Plate	K1050 10" CSK BEV	US32D	RO
2 Wall Stop	400/403 (type as required)	US26D	RO
6 Silencer	608-RKW		RO

2 Frame Types

NOTE: REFER TO "DOOR SCHEDULE" FOR FRAME TYPES REQUIRED FOR THIS PROJECT. SOME FRAME TYPE ELEVATIONS INDICATED ABOVE MAY NOT BE APPLICABLE TO THIS PROJECT.

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



KEYED NOTES

- GLAZING SHALL BE CLEAR, TEMPERED, AND 1/4" THICK.
- DOOR FRAME, SEE DOOR SCHEDULE.
- WHERE DOOR OCCURS AT MASONRY WALL (8" HIGH, C.M.U. BLOCKS), AND WITH A TYPICAL DOOR HEIGHT OF 7' - 0", USE 4" FRAME AS FRAME HEAD INSTEAD OF THE STANDARD 2" FRAME.

KEYED NOTES

- CONTINUOUS SEALANT ON BOTH SIDES OF THE FRAME.
- DOOR FRAME SEEN BEYOND.
- DOOR, SEE DOOR SCHEDULE FOR DOOR TYPE.
- GYPSUM BOARD, 5/8" THICK, TYPE 'X', ATTACH TO METAL STUD FRAMING. SEE WALL TYPES, STEEL RUNNER (18 GAUGE) FASTENED WITH SCREWS TO STUD STUDS AT EACH END. SEE DETAIL 6 / A502A.
- HOLLOW METAL DOOR FRAME, FRAME THICKNESS VARIES WITH WALL THICKNESS. SEE FLOOR PLAN AND WALL SECTIONS, PAINT FRAME.
- SEE WALL TYPES FOR WALL WIDTH AND STUD SIZE.
- FRAME DEPTH SHALL BE WALL WIDTH PLUS 1".
- LINE OF WALL, AS OCCURS.
- PROVIDE DOUBLE METAL STUDS AT FRAME JAMBS, WALL ENDS, ETC. PROVIDE STEEL STRAPS (6" HIGH 16 GAUGE STRAPS AT 2'-0" O.C.) SEE DETAIL 7 / A502A.
- DOOR HINGE AS OCCURS. SEE DOOR AND HARDWARE SCHEDULE. SEE FLOOR PLAN FOR DOOR SWING.

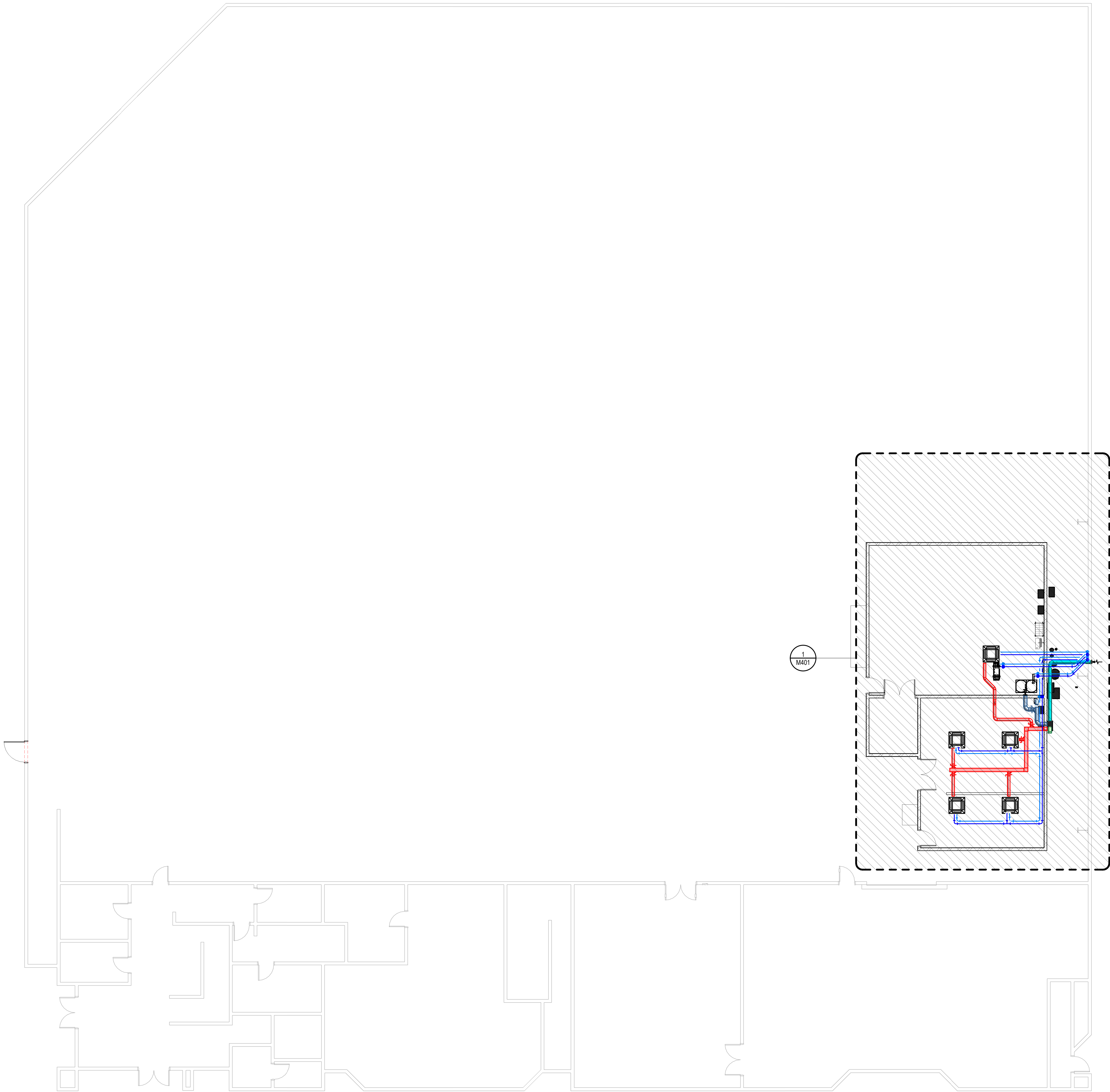
3 Door Frame in Stud Wall

SCALE: 3" = 1'-0"



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1 MECHANICAL PLAN LEVEL 1 - OVERALL
1" = 10'-0"



Intermountain Health
Intermountain Life Flight
Life Flight Simulator

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MECHANICAL
PLAN LEVEL 1
- OVERALL

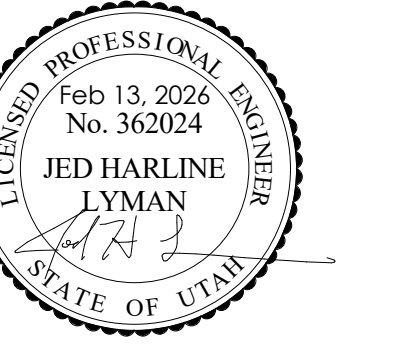
M113

KEYNOTES

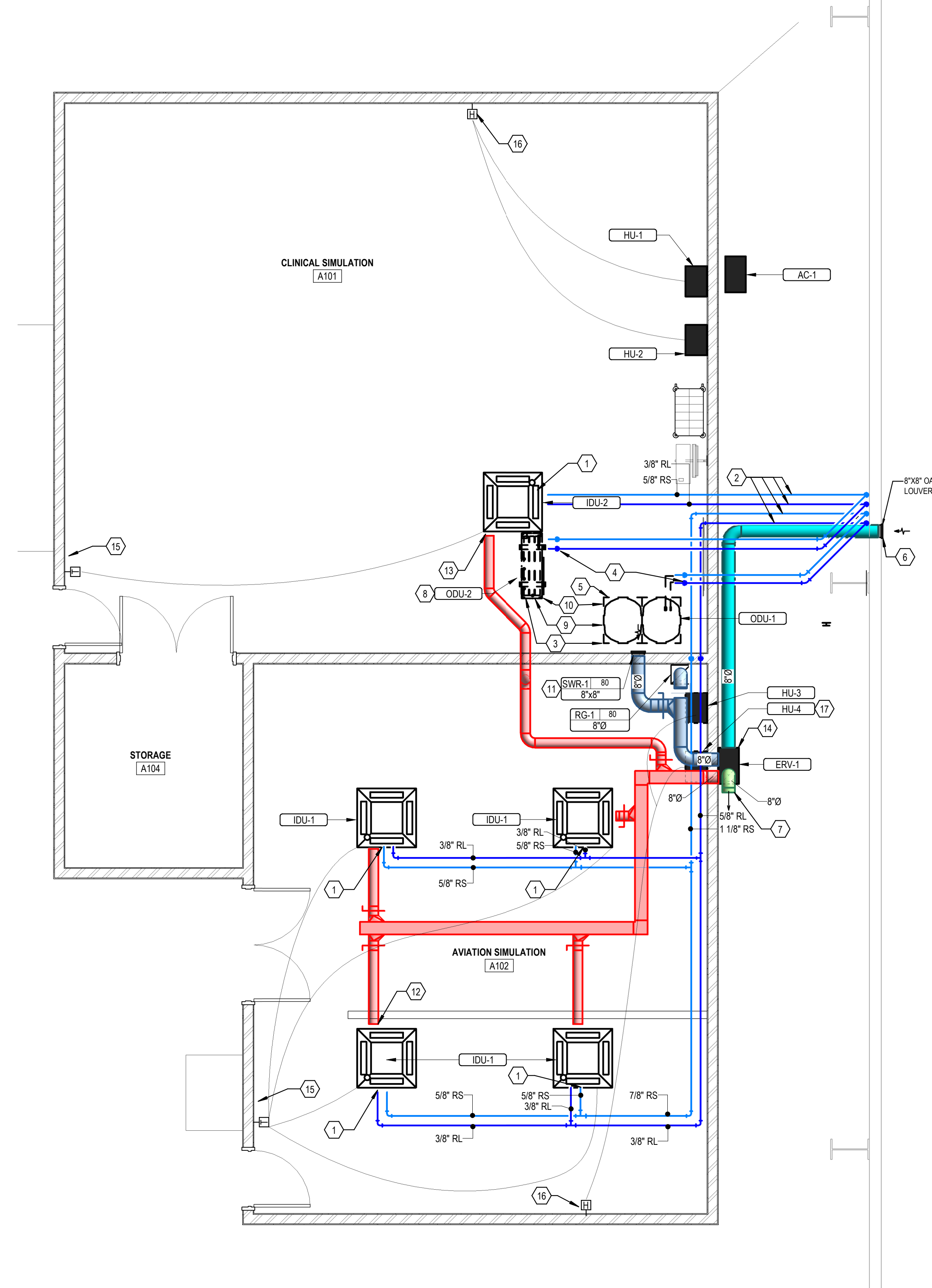
NJRA
ARCHITECTS

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- ## KEYNOTES
1. CONNECT REFRIGERANT PIPING TO MROUND UNIT
 2. REFRIGERANT PIPING SHALL BE INSTALLED ABOVE HAND LID CLOSING TO EACH CASSETTE AND SHALL EXCEED THE EXTERIOR WALL AT A SINGLE LOCATION TO THAT ALL PIPING CAN BE ROUTED TO THE EXTERIOR USING THE EXISTING WALL PENETRATIONS.
 3. PROVIDE 1" MINIMUM CLEARANCE BETWEEN THE EXTERIOR WALL AND THE PIPING TO A HORIZONTAL AIR DUCT CONSTRUCTED USING 1" KUNIT INTERIOR WITH RINGS SPACED 7" CENTER TO CENTER TO PROVIDE A MINIMUM 2" CLEARANCE BETWEEN THE EXTERIOR WALL AND THE PIPING. SECURE THE CLAMPS TO ATTACH EACH PIPE TO EACH RING. ATTACH LEADS TO SIMILAR BUILDING WITH THE EXISTING LEADS TO THE EXTERIOR WALL. PROVIDE 1" MINIMUM CLEARANCE BETWEEN THE PIPES AND CONE NUTS AND OTHER COMPATIBLE STRAP CONNECTORS TO BUILD LEADS, SUPPORT PIPING EVERY 4' VERTICALLY AND HORIZONTALLY BELOW ROOF STRUCTURE.
 4. PROVIDE 1" MINIMUM CLEARANCE OF 18" MINIMUM CLEARANCE FROM THE ROOF STRUCTURE.
 5. REFRIGERANT PIPING TO PENETRATE ROOF IN THIS LOCATION AND CONNECT TO OUTDOOR UNIT MOUNTED ON ROOF. SEE ARCHITECTURE FOR LASHING AND PATCH AND REPAIR DETAILS.
 6. PROVIDE 1" MINIMUM CLEARANCE FROM THE EXISTING PIPING TO EQUIPMENT AND WIDEN THE STAND SPACE THAT TWO LEADS ARE DIRECTLY ABOVE THE EXISTING TRUSS AND THE OTHER TWO LEADS ARE DIRECTLY ABOVE THE EXISTING TRUSS.
 7. MOUNT LOUVER 1/8" ABOVE FINISHED FLOOR.
 8. PROVIDE LEAD IN/OUT DISCHARGE TO PROVIDE DEBRIS FROM FALLING INTO UNIT. DISCHARGE MUST BE 18" ABOVE FINISHED FLOOR.
 9. MOUNT OUTDOOR HEAT PUMP ON MROUND INDUSTRIES PLATFORM OR EQUIVALENT.
 10. MROUND INDUSTRIES SHALL PROVIDE SEISMIC AND WIND CALCULATIONS USING A LICENSED ENGINEER. PROVIDE ATTACHMENT TO THE EXISTING WALL AND THE ATTACHMENT OF PLATFORM TO ROOF DECK. PLATFORM SHALL BE ON ROOF USING NO PENETRATING BASES, SEISMIC AND WIND BRACKETS SHALL BE PROVIDED BY THE MANUFACTURER. PROVIDE 1" MINIMUM CLEARANCE FROM THE WATER TIGHT SEAL USING U-BANCHOR BY ANCHOR PRODUCTS OR APPROVED EQUAL.
 11. LICENSED ENGINEER SHALL PROVIDE SEISMIC RESTRAINT DESIGN PER ASCE 7. SEE STRUCTURAL DRAWING FOR SEISMIC DETAIL.
 12. ELEVATION FROM FINISHED FLOOR TO BOTTOM OF GRILLE IS 5'-0"
 13. CONNECTION DETAIL TO THE OUTDOOR UNIT SHALL BE AS PER DETAIL TO BE PROVIDED BY OEM OF THE OUTDOOR UNIT. TYPICAL FOR 40 UNITS
 14. CONNECTION VENTILATION AIR FLOW TO MANUFACTURER UNIT. BALANCE DAMPER TO BE PROVIDED BY OEM OF THE OUTDOOR UNIT.
 15. MOUNT EHV HIGH ON NEW WALL PER INDUSTRY PARTS WRITERS INSTRUCTIONS.
 16. MOUNT HANDIUM CONTROLLER ON THE WALL. CONNECT TO HANDIUM.
 17. PROVIDE HANDIUM TO HANDIUM.
 18. HUMIDIFIER EQUIPMENT LOCATED BELOW OUTDOOR UNIT. HUMIDIFIER CAN BE AS SEEN ON P&ID.



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



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Intermountain Health
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Life Flight Simulator

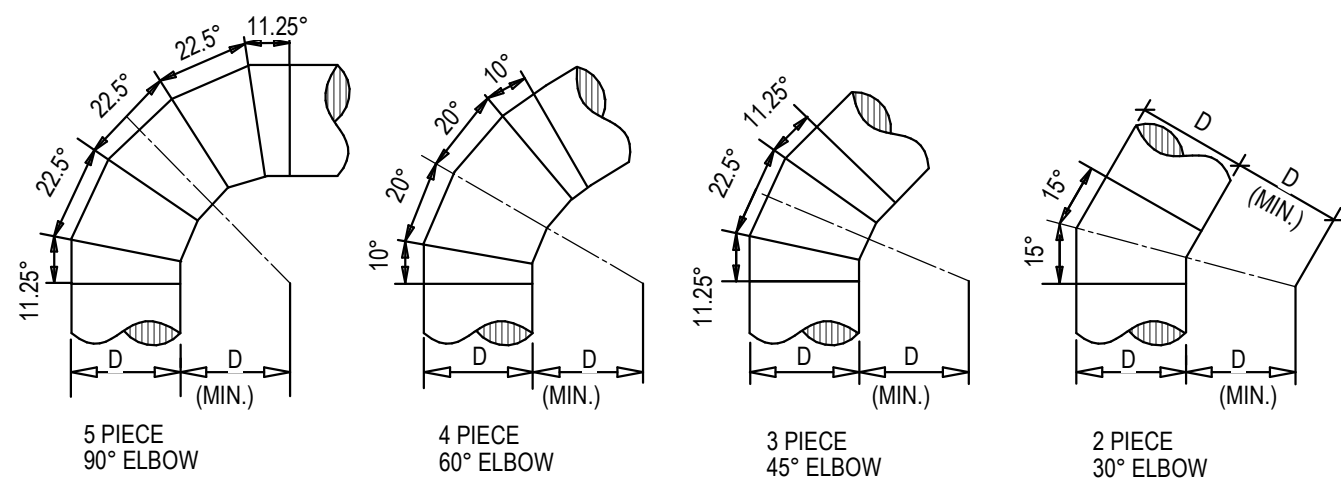
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NJRA Project #	25252.00
BID SET	Feb 13, 2026

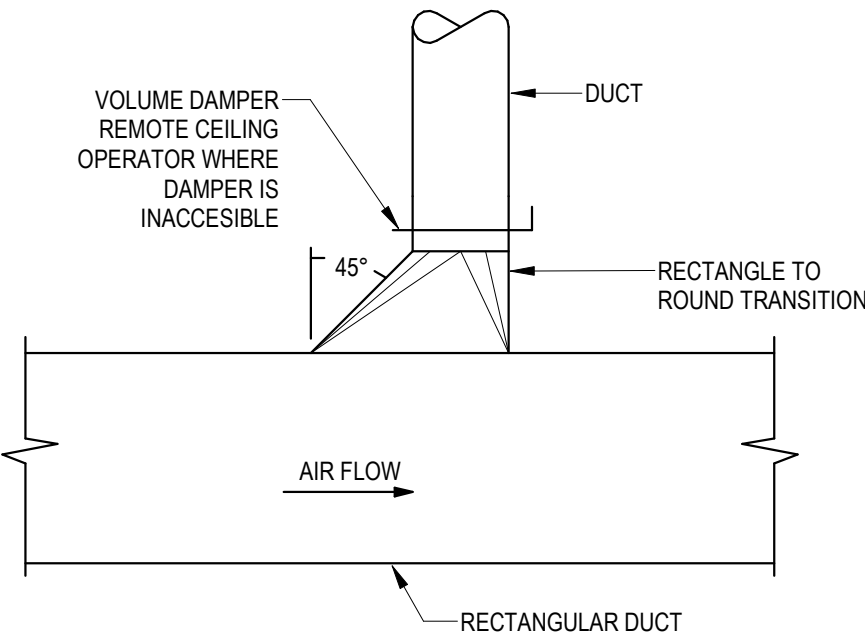
ENLARGED
MECHANICAL
PLAN

M401

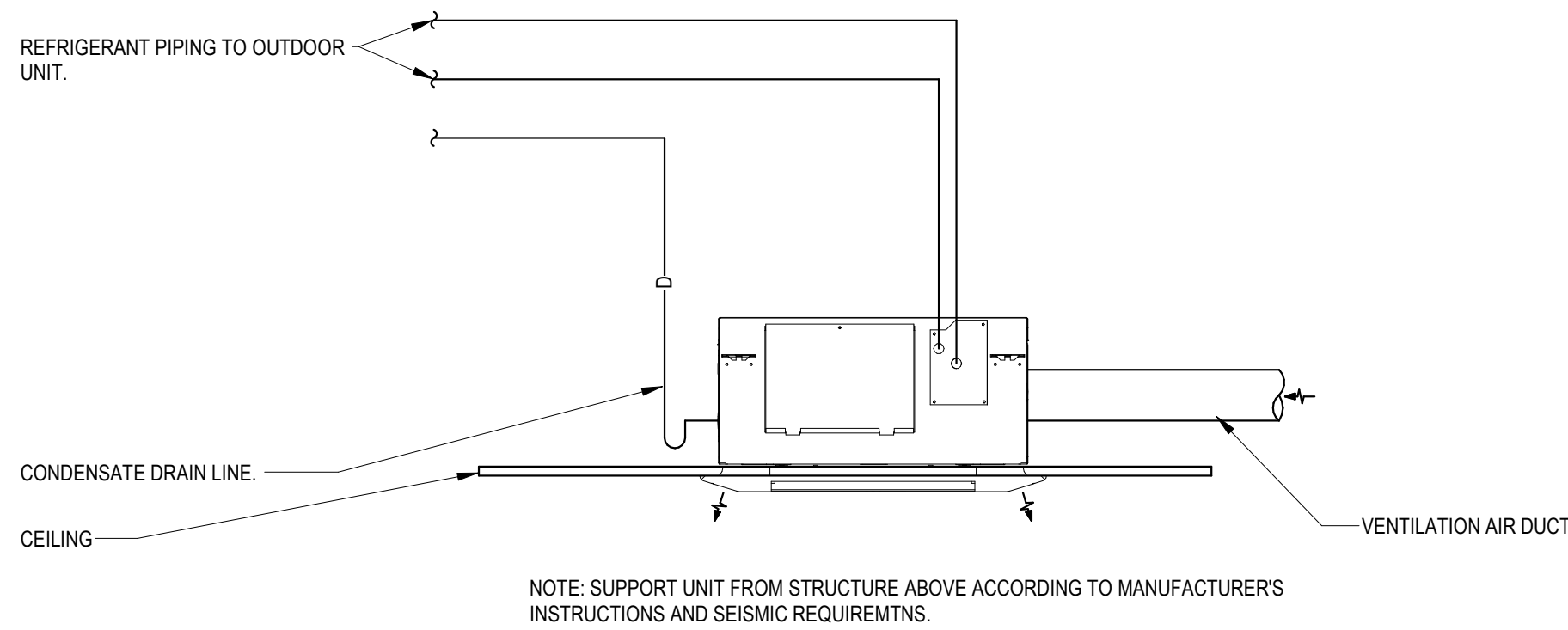
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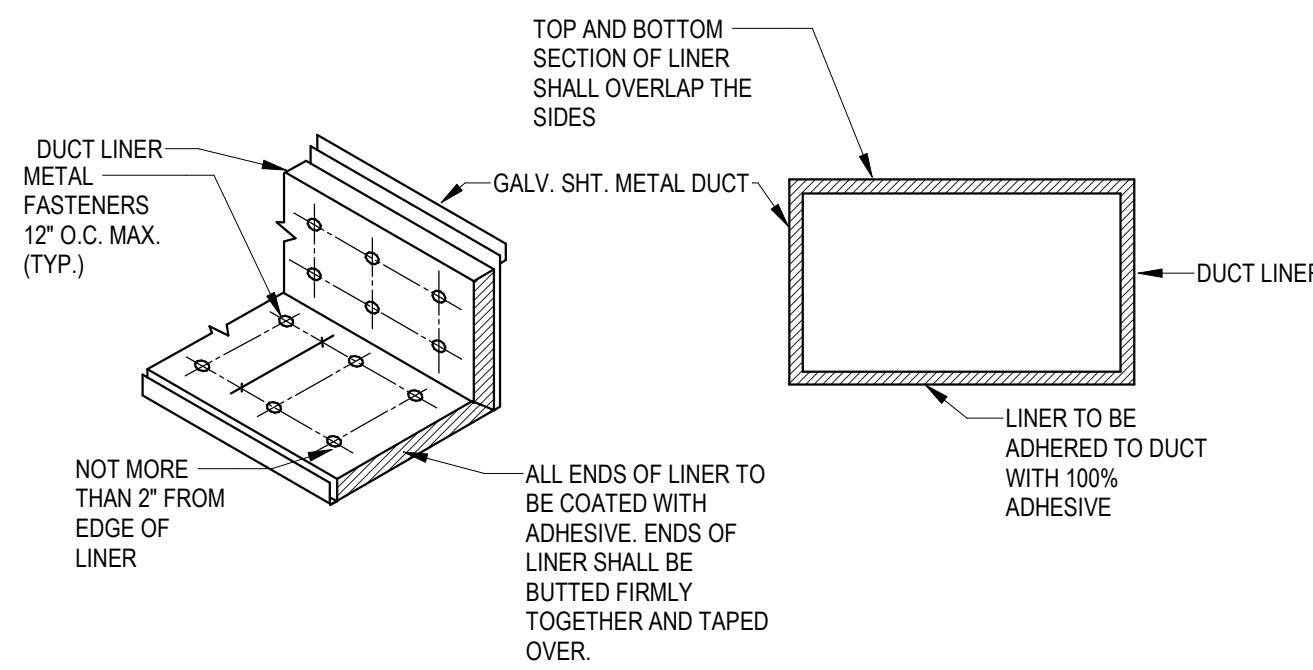
4 ROUND DUCT ELBOWS DETAIL
NO SCALE



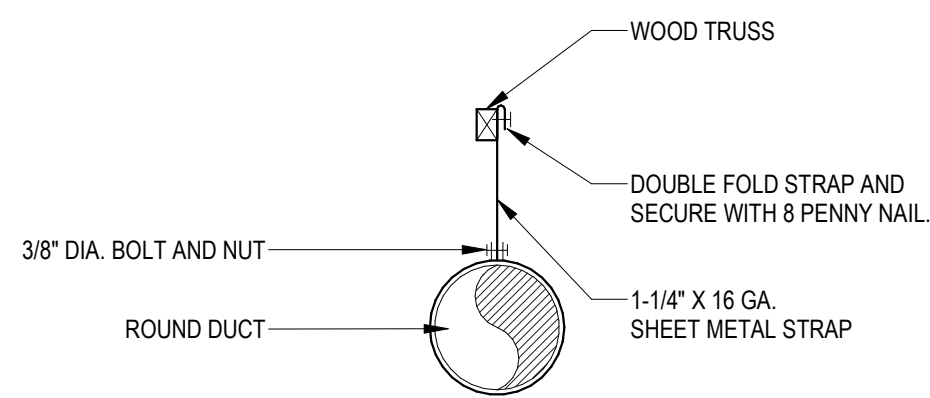
1 DUCT WITH HIGH EFFICIENCY FITTING DETAIL
NO SCALE



5 CEILING CASSETE FAN COIL DETAIL
NO SCALE



2 RECTANGULAR DUCT LINER DETAIL
NO SCALE



NOTE:
USE SPECIFIED SPACING AND NOT LESS THAN ONE
SUPPORT PER BRANCH.

3 ROUND DUCT SUPPORT DETAIL
NO SCALE

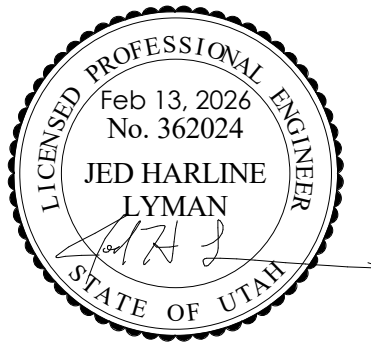


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Intermountain Health
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Life Flight Simulator

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NJRA Project #
BID SET

25252.00
Feb 13, 2026

MECHANICAL
DETAILS

M501



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INDOOR UNIT SCHEDULE															
ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	AIR			VRF	ELECTRICAL			PHYSICAL			NOTES	
				USAGE	AIRFLOW RATE (CFM)	TOTAL LOAD (BTU/H)		ENTERING TEMP DBWB (°F)	REFRIGERANT	MOP	MCA	VOLTPH4HZ	WIDTH*HEIGHT*DEPTH (IN)		WEIGHT (LB)
IDU-1	MTSUBISHI PLFY-P48NEMJ-E	AVIATION SIMULATION A119	CEILING CASSETTE	HEATING	1236	54000	70°-..		R410A	15	1.24	208/1/60	33/33/12	66	1
IDU-2	MTSUBISHI PLA-AE48NL	CLINIC AIRCRAFT SIMULATION A118	CEILING CASSETTE	COOLING	1236	48000	80/62								
				HEATING	1200	60000	70°-..	R454B	--	2	208/1/60	33/33/12	57	1,2	
				COOLING	1200	49000	80/62								

1. PROVIDE ACCESSORY CONDENSATE PUMP. CONDENSATE PUMP IS POWERED BY THE OUTDOOR UNIT.
2. INDOOR UNIT IS POWERED BY OUTDOOR UNIT.

OUTDOOR UNIT SCHEDULE														
ID	MANUFACTURER AND MODEL NUMBER	DESCRIPTION	NOMINAL TONNAGE	USAGE	AIR		VRF	ELECTRICAL			PHYSICAL			NOTES
					AMBIENT DESIGN (°F)	LOAD (BTU/H)		REFRIGERANT	MOP	MCA	VOLTPH4HZ	LENGTH*WIDTH* HEIGHT (IN)	WEIGHT (LB)	
ODU-1	MTSUBISHI PUHY-P168YNU-A	AIR COOLED HEAT PUMP	14	HEATING	3	186000		R410A	50	30	460/3/60	69/30/72	759	1
ODU-2	MTSUBISHI PUZ-AK48NL	AIR COOLED HEAT PUMP	4	COOLING	100	168000								
				HEATING	3	60000		R454B	67	38	208/1/60	42/14/53	265	1
				COOLING	100	48000								

1. PROVIDE LOW AMBIENT KIT.

AIR-TO-AIR ENERGY RECOVERY SCHEDULE																	
				OUTSIDE/SUPPLY				RETURN/EXHAUST				ELECTRICAL			PHYSICAL		
ID	MANUFACTURER AND MODEL NUMBER	LOCATION	USAGE	TOTAL/ SENSIBLE LOAD (BTU/H)	AIRFLOW RATE (CFM)	ENTERING TEMP DBWB (°F)	LEAVING TEMP DBWB (°F)	STATIC PRESSURE (IN. WATER)	AIRFLOW RATE (CFM)	ENTERING TEMP DBWB (°F)	STATIC PRESSURE (IN. WATER)	MCA	MOP	MOTOR VPH4HZ	LENGTH/ WIDTH/ HEIGHT (IN)	NOTES	
ERV-1	RENEWAIRE EV PREMIUM M	HANGAR	HEAT	13172/10437	160	6.6/6	50.4/37.6	1	160	75°-..	1	15	15	120/1/60	26 / 23 / 13	1	
			COOL	7430/3923	160	97.7/62.8	82.4/59.7	1	160	75°-..	1						

1. SELECTION BASED ON ELEVATION OF 4200' ABOVE SEA LEVEL.

AIR COMPRESSOR SCHEDULE															
ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	MAXIMUM FLOW EA. PUMP (ACFM)	MAXIMUM PUMP PRESS. (PSIG)	RECEIVER		ELECTRICAL					PHYSICAL		NOTES
						SIZE (GAL)	RECEIVER TYPE	MOTOR QUAN.	MOTOR SIZE (HP)	MOTOR SPEED (RPM)	AMPS	VOLTPH	LENGTH WIDTH HEIGHT (IN)		
AC-1	INGERSOLL RAND P1.5U-A9	HANGAR	RECIPROCATING TWO STAGE	4.6	135	20	HORIZONTAL	1	2	1775	15	120/60	35/22/29		

GRILLES, REGISTERS AND DIFFUSERS				
ID	MANUFACTURER	MODEL	MAX NC	DESCRIPTION
RG-1	TITUS	PAR	30	PERFORATED FACE RETURN AIR UNIT. REMOVABLE FACE & CORE. FRAME SHALL BE FOR SURFACE OR LAY-IN MOUNTING AS REQUIRED BY CEILING TYPE. LAY-IN FRAMES HSSL BE 24" x 24", 24" x 12" OR 12" x 12" AS REQUIRED TO FIT CEILING TILE SPACE AVAILABLE. AIR QUANTITY SHALL MATCH ROOM SUPPLY OR EXHAUST AIR QUANTITY.
SWR-1	TITUS	355	30	SIDEWALL RETURN AIR GRILLE. HORIZONTAL STATIONARY 35" DEFLECTION VANES SET ON 1/2 INCH CENTER, COMPLETE WITH OBD ADJUSTABLE THROUGH FACE.

HUMIDIFIER SCHEDULE											
ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	DISPERSAL TYPE	ELECTRICAL			PHYSICAL			
					RATED POWER (kW)	RATED CURRENT (A)	CAPACITY (LB/Hr)	POWER VPH4HZ	DRAIN RATE (GPM)	LENGTH / WIDTH / HEIGHT (IN)	NOTES
HU-1	NEPTRONIC SKE4-NMM-277-1	HANGAR	RESISTIVE STEAM	SDU OPTION	4	13	12	277/1/60	12	19.38/13.75/29.75	1,2,3
HU-2	NEPTRONIC SKE4-NMM-277-1	HANGAR	RESISTIVE STEAM	SDU OPTION	4	13	12	277/1/60	12	19.38/13.75/29.75	1,2,3
HU-3	NEPTRONIC SKE4-NM2M-277-1	HANGAR	RESISTIVE STEAM	SDU OPTION	2	8	6	277/1/60	12	19.38/13.75/29.75	1,2,3
HU-4	NEPTRONIC SKE4-NM2M-277-1	HANGAR	RESISTIVE STEAM	SDU OPTION	2	8	6	277/1/60	12	19.38/13.75/29.75	1,2,3

1. PROVIDE WITH HRC20 WALL MOUNTED HUMIDITY CONTROLLER WITH ELECTRONIC DISPLAY.
2. PROVIDE SHS20 WALL MOUNTED HUMIDISTAT, ON/OFF, HIGH LIMIT, DIGITAL, BUILT IN HUMIDITY SENSOR.



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Project #: 250881

Intermountain Health
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Salt Lake City, UT 84116

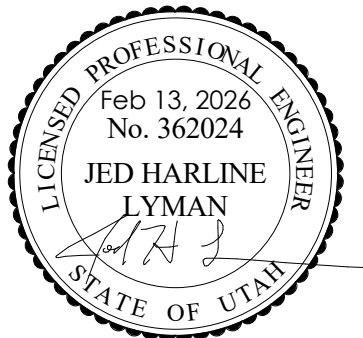
MECHANICAL
SCHEDULES

M601

NJRA Project # 25252.00
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PLUMBING
TITLE SHEET

P001

NJRA Project #
BID SET
Title Sheet Revision

25252.00
Feb 13, 2026

GENERAL PLAN SYMBOLS	
	PLAN REVISION NUMBER
	DETAIL NUMBER ON SHEET
	SHEET NUMBER WHERE DETAIL IS PLACED
	KEYNOTE SYMBOL
	CONTINUATION SYMBOL
	POINT WHERE NEW CONNECTS TO EXISTING
	POINT WHERE EXISTING IS TO BE DEMOLISHED
	ROOM NAME / NUMBER
	AREA BEING DEMOLISHED
	AREA NOT IN CONTRACT

ABBREVIATIONS	
ABV	ABOVE
AC	AIR CONDITIONING
AD	AREA DRAIN
ADD	ADDENDUM
AF	ABOVE FINISHED FLOOR
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY
ALT	ALTERNATE
AP	ACCESS PANEL
ARCH	ARCHITECT/ARCHITECTURAL
BFF	BELOW FINISHED FLOOR
BLW	BELOW
BTU	BRITISH THERMAL UNITS
BTU/H	BRITISH THERMAL UNITS PER HOUR
CAP	CAPACITY
CB	CATCH BASIN
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
CO	CLEANOUT
OW	COLD WATER
D	DEGREE
DB	DRY BULB
DIA	DIAMETER
DN	DOWN
DW	DISTILLED WATER
EA	EACH
EAT	ENTERING AIR TEMPERATURE
ELEC	ELECTRICAL
EQUIP	EQUIPMENT
EW	ELECTRIC WATER COOLER
EWIT	ENTERING WATER TEMPERATURE
E/A	EXHAUST AIR
EXIST	EXISTING
F	DEGREES FAHRENHEIT
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FL	FLOOR
FO	FUEL OIL
FOV	FUEL OIL VENT
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
PPM	FEET PER MINUTE
FS	FLOOR SINK
FT	FOOT/FEET
FTR	FIBERGLASS INSULATION
GAL	GALLON
GF	GAS-FIRED
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
GW	GREASE WASTE
HB	HOSE BIB
HP	HORSE POWER
HTG	HEATING
HTR	HEATER
HW	HOT WATER
HYD	HYDRANT
ID	INDIRECT
IN	INCH
INV	INVERT
LB	POUND
LBHR	POUNDS PER HOUR
LAT	LEAVING AIR TEMPERATURE
LP	LOW PRESSURE
LPG	LIQUEFIED PETROLEUM GAS
LVR	LOUVER
LWT	LEAVING WATER TEMPERATURE
MA	MIXED AIR
MAX	MAXIMUM
MBH	ONE THOUSAND BTU PER HOUR
MCF	ONE THOUSAND CUBIC FEET
MD	MOTORIZED DAMPER
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MTR	MOTOR
MUA	MAKE-UP AIR
NC	NOISE CRITERIA
NC	NORMALLY CLOSED
NO	NOT IN CONTRACT
NO	NUMBER
NO	NORMALLY OPEN
NTS	NOT TO SCALE
O	OXYGEN
O/A	OUTSIDE AIR
ORD	OVERFLOW ROOF DRAIN
PD	PRESSURE DROP
PV	POST INDICATOR VALVE
PLBS	PLUMBING
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PRK	SPROCKER
R	DUCT RISER
RIA	RETURN AIR
RCP	RADIANT CEILING PANEL
RD	ROOF DRAIN
REC	RECESSIB
RED	REDUCER
RH	RELATIVE HUMIDITY
RIA	RELIEF AIR
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
RW	RAIN WATER
SF	SQUARE FOOT
SAN	SUPPLY AIR
SA	SANITARY
SD	SURFACE MOUNT
SM	SMOKE DAMPER
SP	STANDPIPE
SP	STATIC PRESSURE
STM	STEAM
T	THERMOSTAT
TD	TEMPERATURE DROP
TDR	TRENCH DRAIN
TEMP	TEMPERATURE
TYP	TYPICAL
UG	UNDERGROUND
VAC	VACUUM
VENT	VENT
VAV	VARIABLE AIR VOLUME
VENT	VENTILATION
VTR	VENT THROUGH ROOF
W	WASTE
WB	WET BULB
WCO	WALL CLEAN OUT
WH	WALL HYDRANT

EQUIPMENT ABBREVIATIONS	
AC	AIR CONDITIONING UNIT
ACU	AIR COOLING CONDENSING UNIT
AHU	AIR HANDLING UNIT
AS	AIR SEPARATOR
B	BOILER
CH	CHILLER
CT	COOLING TOWER
CUH	CABINET UNIT HEATER
CHWP	CHILLED WATER PUMP
DBP	DOMESTIC WATER BOOSTER PUMP
DC	DUCT MOUNTED COIL
DGP	DOMESTIC WATER CIRCULATING PUMP
EF	EXHAUST FAN
EDC	ELECTRIC DUCT COIL
ET	EXPANSION TANK
EW	ELECTRIC WATER HEATER
FCU	FAN COIL UNIT
FP	FIRE PUMP
GI	GREASE INTERCEPTOR
GRV	GRAVITY ROOF VENTILATOR
HWP	HEATING WATER PUMP
HRU	HEAT RECOVERY UNIT
PRV	POWER ROOF VENTILATOR
RE	RETURN EXHAUST FAN
RTU	ROOFTOP UNIT
SP	SUMP PUMP
UH	UNIT HEATER
WH	WATER HEATER

* NOTE *
ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET. THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

PLUMBING SYMBOLS	
	NOMINAL PIPE SIZE
	ABOVE GROUND PIPING
	BELOW GROUND PIPING
	PIPE SLOPE (WHEN APPLICABLE)
	EXISTING PIPE TO REMAIN
	PIPE TO BE DEMOLISHED
	DOMESTIC COLD WATER
	NON-POTABLE WATER
	SOFT COLD - WATER
	FILTERED COLD - WATER
	REVERSE OSMOSIS WATER
	REVERSE OSMOSIS WATER RECIRCULATION
	DEIONIZED WATER
	DEIONIZED WATER RECIRCULATION
	DOMESTIC HOT - WATER
	DOMESTIC HOT - WATER 140
	DOMESTIC HOT - WATER RECIRCULATION
	DOMESTIC HOT-WATER RECIRCULATION 140
	NON-POTABLE HOT WATER
	SANITARY DRAIN
	SANITARY VENT
	SANITARY WET VENT
	COMBINATION DWV
	CONDENSATE DRAIN
	INDIRECT DRAIN
	GREASE WASTE
	GREASE VENT
	OIL WASTE
	OIL VENT
	FUEL OIL RETURN
	FUEL OIL SUPPLY
	PUMP DISCHARGE
	SOLAR WATER RETURN
	SOLAR WATER SUPPLY
	ROOF DRAIN
	ROOF DRAIN OVERFLOW
	CARBON DIOXIDE GAS
	HELIUM GAS
	INSTRUMENT AIR
	MEDICAL AIR
	MEDICAL VACUUM
	NITROGEN GAS
	NITROUS OXIDE GAS
	OXYGEN GAS
	WASTE ANESTHESIA GAS DISPOSAL
	COMPRESSED AIR
	NATURAL GAS
	LIQUID PROPANE
	PIPE RISE / DROP

PLUMBING SYMBOLS	
	FCO
	WCO
	BACKWATER
	CHECK
	CHECK
	BALANCE
	CIRC
	GATE
	GATE VALVE
	QUICK
	QUICK OPENING VALVE
	S/O
	FLUID STRAINER
	GAS-ONTRL
	PLUG
	GAS SHUTOFF COCK
	GAS REGULATOR
	T/VT/P
	PRIMER
	M-CTRL
	TMV-XT/P
	TMVEM
	EMERGENCY MIXER
	PRV
	PRESSURE REDUCING VALVE
	METER
	METER
	DOUBLE CHECK VALVE
	REDUCED PRESSURE ZONE
PLUMBING FIXTURE NOTES	
	DESIGN SIZE
	IDENTITY TYPE
	DRAINAGE FIXTURE UNITS
	FLOOR DRAIN IN DEEP SEAL TRAP
	FLOOR DRAIN IN TRAP PRIMER CONNECTION
	FLOOR DRAIN W/ INTEGRAL CLEANOUT
	AREA DRAIN (NO TRAP)
	DECK DRAIN
	HUB DRAIN (FUNNEL TYPE)
	FLOOR SINK
	ROOF DRAIN
	COMBINATION DRAIN
	2000 SF

PROJECT REQUIREMENTS	
1	THE PROJECT GENERAL NOTES APPLY TO ALL DISCIPLINES.
2	REMOVE ALL UNUSED PIPING, DUCTWORK, EQUIPMENT, AND ACCESSORIES.
3	THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING CONDITIONS FOR PLUMBING AND MECHANICAL SYSTEMS WITHIN THE SCOPE OF WORK SPACE AND WITHIN CLOSE PROXIMITY TO THE SCOPE OF WORK SPACE. THE CONTRACTOR WILL FIELD VERIFY AS MUCH AS IS REASONABLE BEFORE THE FINAL BID. AFTER THE FINAL BID THE CONTRACTOR WILL NOTIFY THE OWNER, ARCHITECT, AND MECHANICAL DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF EXISTING CONDITIONS THAT MAY AFFECT THE DESIGN.
4	WHERE FLOOR DRAINS OCCUR WITH THE LIMITS OF CONSTRUCTION, PREVENT CONSTRUCTION DEBRIS FROM ENTERING DRAIN BODY BY SEALING DRAIN OPENING PRIOR TO START OF WORK. UNSUB DRAINS AT COMPLETION OF CONSTRUCTION.
5	COORDINATE INSTALLATION OF PIPING, DUCTWORK, CONDUIT, LIGHTS, CABLE TRAY, STRUCTURE, EQUIPMENT, CEILING, ARCHITECTURAL COMPONENTS, AND ANYTHING ELSE PERTAINING TO THE PROJECT TO PREVENT CONFLICTS.
6	THE CONTRACTOR SHALL BE FAMILIAR WITH ALL THE CONDITIONS BOTH EXISTING AND THOSE ILLUSTRATED BY THESE DOCUMENTS AND THOSE OF OTHER DISCIPLINES, INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, CIVIL, ELECTRICAL, VENTILATION, PLUMBING, AND OTHER SYSTEMS INVOLVED ON THIS PROJECT.
7	FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO THE INTERNATIONAL BUILDING CODE, INTERNATIONAL MECHANICAL CODE, AND INTERNATIONAL PLUMBING CODE.
8	LOCATE EQUIPMENT REQUIRING ACCESS 2'-0" MAXIMUM ABOVE CEILING.
9	ALL ROOF MOUNTED EQUIPMENT SHALL BE A MINIMUM 12'-0" FROM EDGE OF ROOF.
10	COORDINATE INSTALLATION OF DUCTWORK, PIPING AND MECHANICAL EQUIPMENT WITH NEC CLEARANCES INCLUDING THE SPACE ABOVE ELECTRICAL PANELS, TRANSFORMERS AND OTHER ELECTRICAL EQUIPMENT. NO PIPING OR DUCTWORK TO RUN OVER ELECTRICAL PANELS, VFD'S OR MCC'S. PROTECT EQUIPMENT WITH A 4'-0" DEEP ZONE IN FRONT OF PANELS, VFD'S AND MCC'S. PROVIDE PANELS IF REQUIRED UNDER PIPING.
11	FIRE SEAL AROUND DUCT AND PIPING PENETRATIONS OF FIRE RATED WALLS. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CAULKING AND SEALING ALL PENETRATIONS IN FIRE AND SMOKE RATED PARTITIONS TO MAINTAIN RATINGS. REFER TO SPECIFICATION.
12	PROVIDE SLEEVES AND/OR OPENINGS TO RUN PIPES AND DUCTS THROUGH FOUNDATIONS, FLOORS, WALLS, AND ROOF.
13	TRANSITION PIPING AND DUCTWORK SIZES TO MATCH THE SIZE OF EQUIPMENT CONNECTION.
14	ALL PIPE AND DUCT SIZES SHOWN SHALL BE CONTINUED IN THIRTY DIRECTION OF FLOW UNTIL ANOTHER SIZE IS SHOWN.
15	FOR DETAILS, EQUIPMENT CONNECTIONS, AND PIPE SIZES NOT SHOWN ON THE SEGMENTS, REFER TO DETAILS, SCHEDULES, AND SPECIFICATIONS.
16	INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURERS WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF WORKMANSHIP CONSISTENT WITH THE SPECIFICATIONS.
17	MECHANICAL CONTRACTOR SHALL ENSURE THAT ALL EQUIPMENT IS PROVIDED AND INSTALLED WITH CLEARANCES PER MANUFACTURERS RECOMMENDATIONS. THE CONTRACTOR SHALL MAINTAIN PROPER SERVICE SPACE FOR COIL PULLS, BAS DEVICES, MAINTENANCE ACCESS, ETC.
18	INSTALL EXPOSED PIPING AND DUCTWORK AS HIGH AS PRACTICAL, IN ROOMS WITHOUT CEILINGS.
19	LOCATIONS OF PIPING, DUCTWORK AND EQUIPMENT, AS INDICATED ON THE DRAWING, ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD, INCLUDING, BUT NOT LIMITED TO, OFFSETS AND TRANSITIONS. NO DUCTWORK, PIPING AND EQUIPMENT SHALL BE COORDINATED WITH STRUCTURE, LIGHTS, REFLECTED CEILING PLANS, CABLE TRAY, ELECTRICAL, CONDUIT, PLUMBING, MECHANICAL AND FIRE PROTECTION PIPING, ALL OTHER TRADES AND ALL OTHER EXISTING CONDITIONS TO AVOID INTERFERENCE IN THE FIELD.
20	THE CONTRACTOR SHALL INFORM THE DESIGNER OF ANY PROPOSED DEVIATIONS FROM THE CONTRACT DOCUMENTS.
21	IF CONTRACTOR ENCOUNTERS MATERIAL, WHICH MAY CONTAIN ASBESTOS, IMMEDIATELY STOP WORK IN THIS AREA AND NOTIFY THE OWNER.
22	DETAILS REFERENCE ALL SHEETS.
23	INSTALL ALL PIPING AND DUCTWORK WITHOUT FORCING OR SPRINGING.
24	LOCATE VALVING, ACCESSORIES, AND EQUIPMENT IN ACCESSIBLE LOCATIONS, WHERE LOCATED ABOVE HARD CEILING PROVIDE AN ACCESS DOOR IN CEILING. MINIMUM ACCESS DOOR SIZE OF 24" X 24". COORDINATE EXACT LOCATION AND STYLE WITH ARCHITECT. EQUIPMENT SHALL BE LOCATED IN THE CEILING VENTILATION SO IT CAN BE SAFELY SERVICED FROM SCISSORS STANDING ON A LADDER PLACED BELOW THE CEILING ACCESS.
25	WHERE VALVING, ACCESSORIES, OR EQUIPMENT IS LOCATED IN A WALL, PROVIDE AN APPROPRIATELY SIZED ACCESS DOOR, COORDINATE ACCESS DOOR SIZE, LOCATION, AND STYLE WITH ARCHITECT.
26	CONTRACTOR TO PROVIDE VALVE IDENTIFICATION AND LOCATION ON ALL CEILING TILES WHERE VALVES ARE LOCATED.
27	CONTRACTOR TO PROVIDE DELEGATED DESIGN OF SEISMIC BRACING AS A DEFERRED SUBMITTAL. SEE SPECIFICATION 251-68 - VIBRATION AND SEISMIC CONTROLS FOR HVAC.
PLUMBING GENERAL NOTES	
1	ALL WORK DONE SHALL BE PERFORMED WITH WATER CONTROL. IN MIND, CONTAINMENT OF WATER IS NECESSARY TO PREVENT WATER FROM DAMAGING AREAS ON FLOORS BELOW.
2	PLUMBING DRAWINGS ARE SCHEMATIC IN NATURE. FIELD VERIFY EXACT PIPE ROUTING AND COORDINATE WITH ALL OTHER TRADES.
3	ALL PIPING IN PLUMBING SHALL BE ARRANGED TO ALLOW MAINTENANCE ACCESS.
4	NO PIPING TO RUN OVER ELECTRICAL PANELS, VFD'S OR MCC'S. PROTECT EQUIPMENT WITH A DEEP ZONE IN FRONT OF PANELS, VFD'S, AND MCC'S.
5	CONTRACTOR TO PROVIDE VALVE IDENTIFICATION AND LOCATION ON ALL CEILING TILES WHERE VALVES ARE LOCATED.
6	PIPING AND ROUTING SHOWN, INCLUDING ALL BELOW FLOOR DECK PIPING IS APPROXIMATE. IT IS UP TO THE CONTRACTOR TO FIELD VERIFY THE EXACT LOCATION AND SIZE OF ALL PIPING.
7	INSTALL ALL EQUIPMENT WITH SUFFICIENT CLEARANCE FOR MAINTENANCE PER MANUFACTURERS RECOMMENDATION.
8	DRAIN PANS SHALL BE INSTALLED UNDER ANY PIPING THAT MAY CONTAIN WATER INSTALLED IN AN ELECTRICAL DATA, IT, OR OTHER ROOM WITH SENSITIVE ELECTRICAL EQUIPMENT. THIS INCLUDES, BUT IS NOT LIMITED TO HYDRANT, WASTE, DOMESTIC, ROOF DRAIN, ETC.
9	ALL PIPING UTILIZED IN CONDITIONED AIR STREAMS, CONDITIONED SPACES, OR RETURN AIR PLenums SHALL COMPLY WITH NFPA 96A FLAME SPREAD, SMOKE DEVELOPMENT, AND FUEL CONTRIBUTION OF 25/50/0, RESPECTIVELY, AND SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES AND PROJECT SPECIFICATIONS.
10	WHERE NON-PLUMB RATED PIPING IS PERMITTED OR REQUIRED WITH CONDITIONED AIR STREAMS, CONDITIONED SPACES, OR RETURN AIR PLenums, IT SHALL BE INSULATED TO ACHIEVE NFPA 96A FLAME SPREAD, SMOKE DEVELOPMENT, AND FUEL CONTRIBUTION RATINGS OF 25/50/0, RESPECTIVELY, AND SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES AND PROJECT SPECIFICATIONS.

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1 PLUMBING PLAN LEVEL 1 - OVERALL
1" = 10'-0"



- KEYNOTES**
1. TERMINATE PUMPED WASTE LINE AT EXISTING FLOOR DRAIN IN THIS APPROXIMATE LOCATION WITH FIXED AIR GAP. CONTRACTOR TO PROVIDE AND INSTALL A JR SMITH MODEL 3860NE DRAIN FUNNEL. ATTACH TO EXISTING FLOOR DRAIN STRAINER GRATE AND MAKE INDIRECT CONNECTION TO PUMP DISCHARGE.
 2. COORDINATE GRAVITY PIPING SECTION WITH OUTLET LOCATION IN MECHANICAL ROOM. PIPING WILL BE SURFACE MOUNTED AROUND THE PERIMETER OF THE HANGER TO BUILDING STEEL OR WALLS.
 3. EXTEND VENT FROM PUMP SYSTEM RECEIVER TO NEAREST BUILDING VENT IN MECHANICAL ROOM. CONTRACTOR TO FIELD VERIFY LOCATION.



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Project #: 250881

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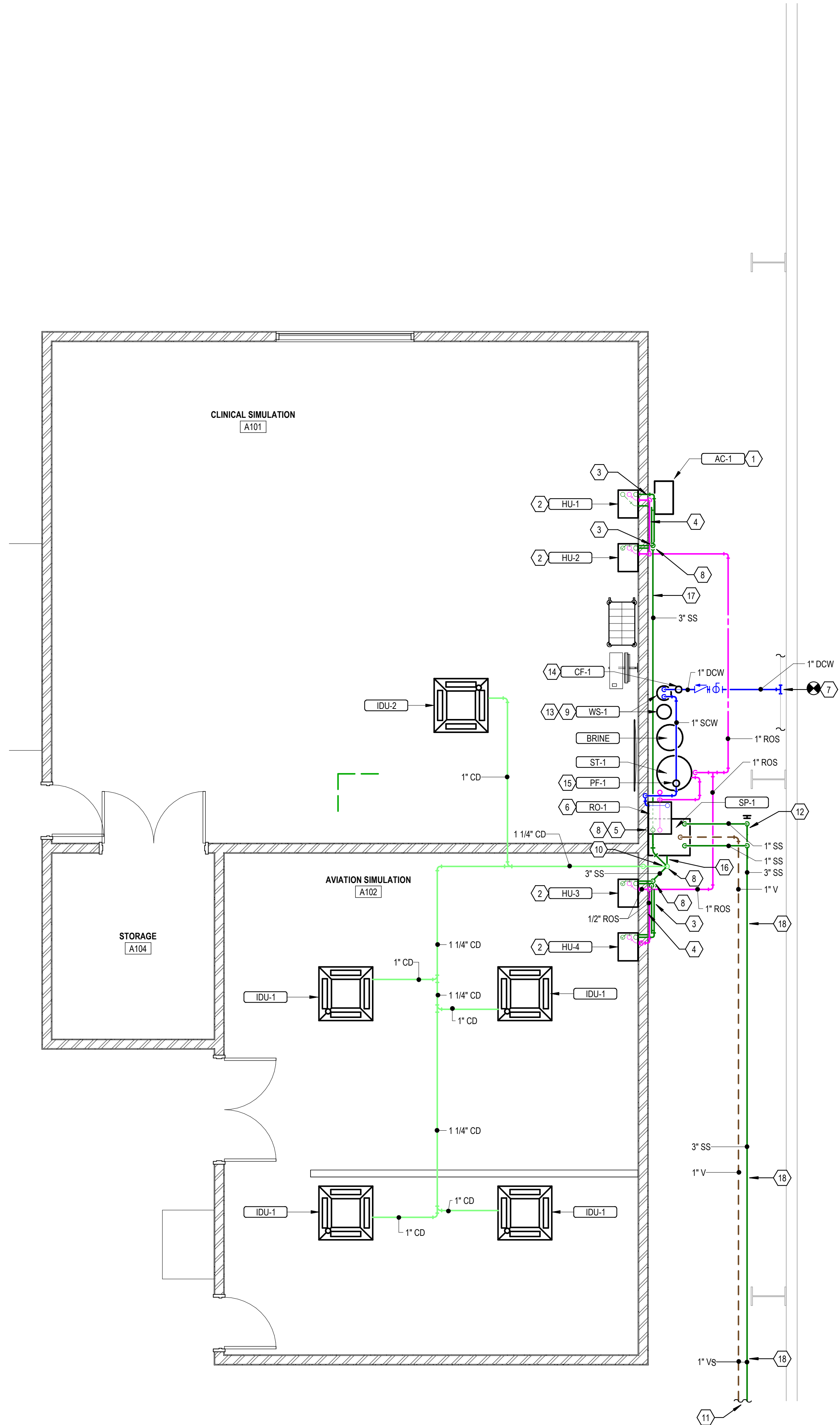
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PLUMBING
PLAN LEVEL 1
- OVERALL

P113

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



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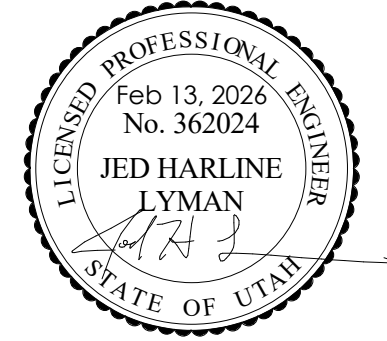
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KEYNOTES

1. EXTEND 1/2" COMPRESSED AIR PIPING FROM AIR COMPRESSOR TO MOTION BASE. FINAL REGULATORS AND CONNECTION REQUIREMENTS BY OTHERS.
2. KEEP 18" CLEARANCE TO LEFT AND RIGHT OF HUMIDIFIER. ELEVATION OF DISPERSAL UNIT GRID SHALL BE SET AT 7.
3. EXTEND PAN DRAIN AND MAIN DRAIN LINES INDEPENDENTLY FROM CONNECTION POINTS ON HUMIDIFIER EQUIPMENT TO THE STAND PIPE WITH DRAIN FUNNEL. MAKE INDIRECT CONNECTION. SEE DETAIL ON P501. DRAIN LINES SHALL BE COPPER PIPING.
4. INSTALL WATER HAMMER ARRESTOR BEFORE BRANCHES SPLIT TO EACH HUMIDIFIER. INSTALL ISOLATION VALVE BEFORE MAKING EACH CONNECTION TO HUMIDIFIERS. SEE DETAIL ON P501.
5. EXTEND PAN DRAIN AND MAIN DRAIN LINES INDEPENDENTLY FROM CONNECTION POINTS ON RO SYSTEM EQUIPMENT TO THE STAND PIPE WITH DRAIN FUNNEL. MAKE INDIRECT CONNECTION. SEE DETAIL ON P501.
6. RO SYSTEM IS WALL MOUNTED. SEE MAINTAIN MANUFACTURER CLEARANCE REQUIREMENTS. INSTALL SUCH THAT MOUNTING HEIGHT OF THE CONTROL PANEL IS AT 8 FT ABOVE FINISHED FLOOR TO ALLOW SPACE FOR PIPING BELOW UNIT.
7. CONNECT TO EXISTING DOMESTIC WATER LINE. EXISTING WATER LINE IS SURFACE MOUNTED ON THE HANGER WALL.
8. STAND PIPE WITH FUNNEL DRAIN.
9. WATER SOFTENER IS A TWIN ALTERNATING SYSTEM. SEE MANUFACTURERS INSTALLATION INSTRUCTIONS. SEE DETAIL ON P501 FOR OVERALL DESIGN INTENT.
10. MAKE INDIRECT CONNECTION TO STANDPIPE WITH DRAIN FUNNEL FOR CONDENSATE FROM CEILING CASSETTE UNITS.
11. CONTINUED ON P113.
12. TRANSITION FROM 1" PUMP DISCHARGE TO 3" GRAVITY DRAIN PIPING. USE ADAPTERS AND FITTINGS AS REQUIRED. INSTALL CLEANOUT PLUG AT THE START OF GRAVITY WASTE PORTION. EXTEND BACKWASH LINE FROM WATER SOFTENER TO STANDPIPE WITH DRAIN FUNNEL. SURFACE MOUNT PIPING.
13. INSTALL IN LINE CARBON FILTER DECHLORINATOR BEFORE WATER SOFTENER CONNECTION.
14. INSTALL IN LINE PRE FILTER BETWEEN WATER SOFTENER AND RO UNIT.
15. CONNECT 3" WASTE PIPE TO 3" WASTE SYSTEM RECOVER TANK.
16. SURFACE MOUNT WASTE PIPING TO WALL.
17. COORDINATE GRAVITY PIPING SECTION WITH OUTLET LOCATION IN MECHANICAL ROOM. PIPING SHALL BE SURFACE MOUNTED AROUND THE PERIMETER OF THE HANGER TO BUILDING STEEL OR WALLS.



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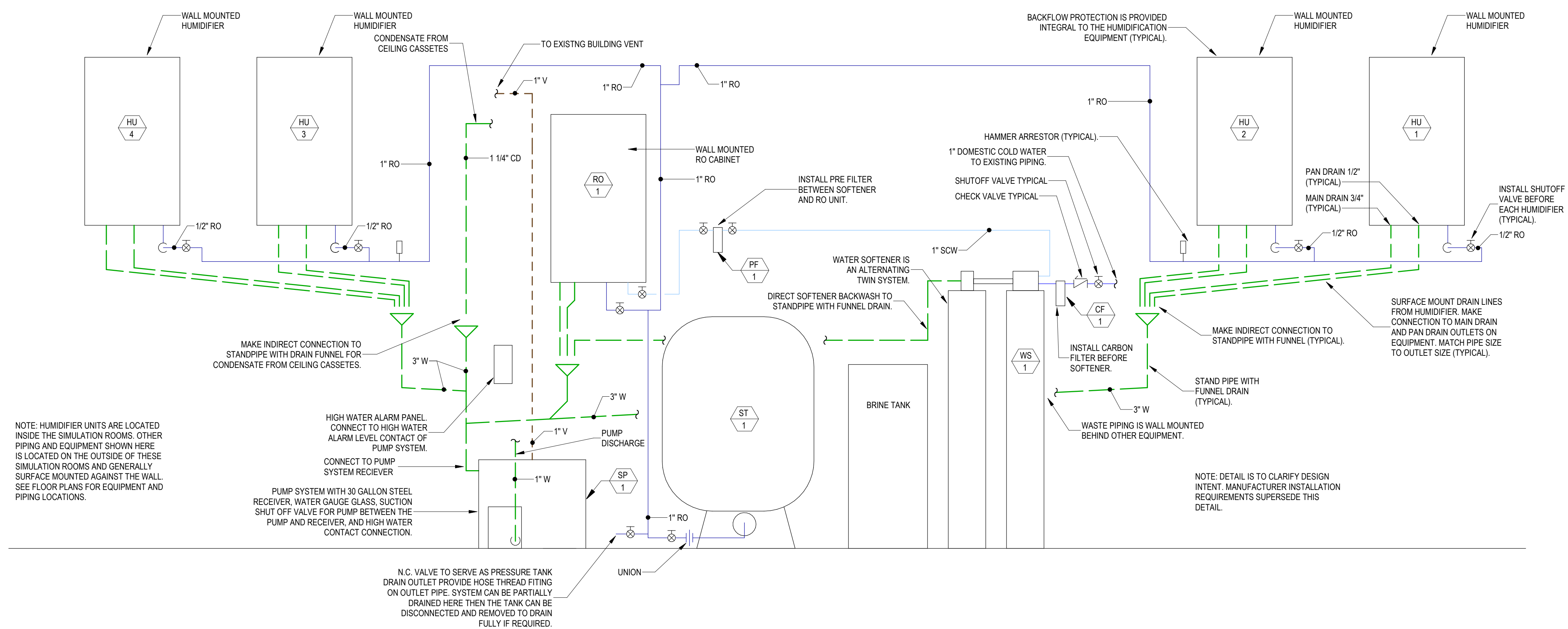
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PLAN

P401

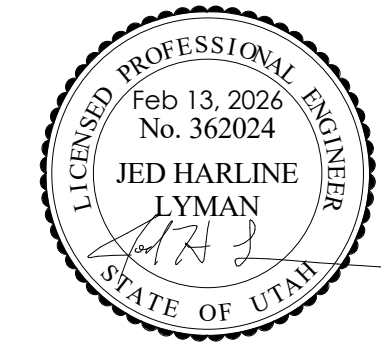
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1 RO SYSTEM DETAIL
P501 NOT TO SCALE



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PLUMBING
DETAILS

P501



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PUMP SCHEDULE										
ID	MANUFACTURER AND MODEL NUMBER	LOCATION	CONDENSATE		PUMP		ELECTRICAL		MOTOR SPEED (RPM)	VOLT/PH/Hz
			FLOW RATE (GPM)	HEAD LOSS (FT)	CONSTRUCTION	MOTOR SIZE (HP)	MOTOR BHP (HP)			
SP-1	WEIL 4205K102	HANGAR	6	46	CAST IRON	1/2		3500	230/160	1, 2, 3, 4, 5, 6, 7

1. SIMPLEX CONDENSATE RETURN PUMP SYSTEM IS PRE ASSEMBLED WITH PACKAGED RECEIVER.
2. ORDER PUMP PACKAGE SYSTEM WITH ALTERNATE 30 GALLON STEEL RECEIVER.
3. INCLUDE WATER GAUGE GLASS.
4. INCLUDE SUCTION SHUT OFF VALVE 1 PER PUMP.
5. INCLUDE 230V SINGLE PHASE MOTOR OPTION.
6. INCLUDE HIGH WATER ALARM CONTACT.
7. INCLUDE 115V ALARM PANEL. ALARM PANEL SHIPPED SEPARATELY. WALL MOUNTED. CONNECT TO HIGH WATER ALARM CONTACT.

PURE WATER SYSTEM SCHEDULE										
ID	MANUFACTURER AND MODEL NUMBER	RO UNIT		STORAGE		FILTER		MICRON RATING	FLOW RATE (GPM)	NOTES
		CAPACITY @ 50 F. FEED WATER (GPD)	HP/ VOLT/PH	SYMBOL	TOTAL FLUID CAPACITY (GAL)	DIA./ HEIGHT (IN)	SYMBOL			
RO-1	NEPTRONIC SKRO-ND12	700	120/1	ST-1	50	24.2/52	PF-1	CART	5	4
							CF-1	CARBON	10	

1. PREFILTER PF-1 MODEL PF45-1005
2. WS-1 IS PART OF THIS PACKAGED SELECTION. SEE WS-1 SCHEDULE
3. CARBON FILTER CF-1 MODEL WF PF45-1105
4. PRESSURIZED RESERVE TANK ST-1 MODEL WF PRSR000

WATER SOFTENER SCHEDULE										
ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	RATED FLOW FOR PACKAGED SYSTEM (GPM)	RESIN QUANTITY (FT ³ /H)	RESIN TANK HGH/ID/DA (IN/IN)	BRINE TANK HGH/ID/DA (IN/IN)	ELECTRICAL (VOLT/PH)		NOTES
WS-1	NEPTRONIC WS DWS01	HANGAR	TWIN	3.75	0.75	54/10	40/18	120/1		1, 2, 3, 4

1. PACKAGED EQUIPMENT.
2. SYSTEM IS AN ALTERNATING TWIN TO ALLOW FOR CONTINUOUS OPERATION.
3. TANKS MUST NOT BE SUBJECT TO VACUUM.
4. WATER SOFTENER IS PART OF RO PACKAGED SYSTEM. SEE PURE WATER SCHEDULE.



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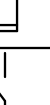
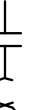
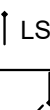
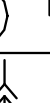
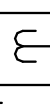
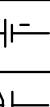
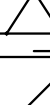
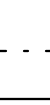
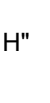
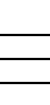
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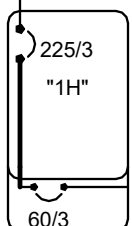
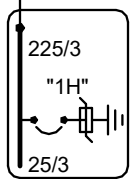
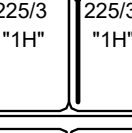
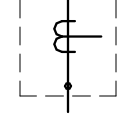
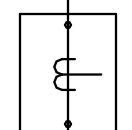
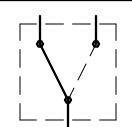
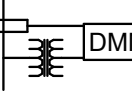
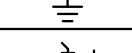
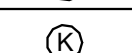
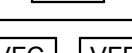
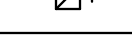
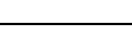
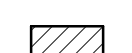
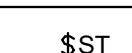
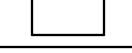
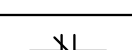
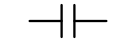
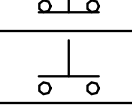
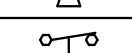
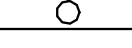
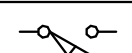
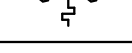
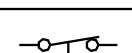
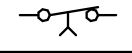
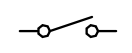
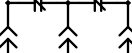
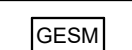
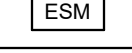
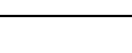
PLUMBING
SCHEDULES

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SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
REFERENCE AND LINE SYMBOLS	
	DETAIL INDICATOR. A5 INDICATES DETAIL NUMBER. E-501 INDICATES DRAWING SHEET WHERE DETAIL IS SHOWN.
	ELEVATION OR SECTION INDICATOR. EXTERIOR. A5 INDICATES ELEVATION OR SECTION NUMBER. E-201 INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.
	ELEVATION OR SECTION INDICATOR. INTERIOR. A5 INDICATES ELEVATION OR SECTION NUMBER. E-201 INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.
	ROOM IDENTIFIER WITH ROOM NAME AND NUMBER.
	KEYNOTE INDICATOR.
	REVISION INDICATOR.
	EQUIPMENT INDICATOR.
	MECHANICAL EQUIPMENT INDICATOR. "X-X" INDICATES EQUIPMENT MARK SHOWN ON EQUIPMENT SCHEDULE. "X-MPD" IDENTIFIES PANEL EQUIPMENT IS CIRCUITED TO. REFER TO EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
	BREAK, STRAIGHT. TO BREAK PARTS OF DRAWING
	BREAK, ROUND
	MATCH LINE INDICATOR. CENTER, EXTRA WIDE LINE.
	NEW LINE. MEDIUM LINE.
	HIDDEN FEATURES LINE. HIDDEN, THIN LINE
	EXISTING TO REMAIN LINE. THIN LINE.
	DEMOLITION LINE. DASHED, MEDIUM LINE
	PROPERTY LINE. DASHED, WIDE LINE.
	CONTRACT LIMIT LINE. DASHDOT, WIDE LINE.
	ELECTRICAL EQUIPMENT INDICATOR. "XXX" INDICATES TYPE OF EQUIPMENT OR EQUIPMENT ID. "E-1" IDENTIFIES MECHANICAL EQUIPMENT BEING SERVED. REFER TO EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
	EQUIPMENT INDICATOR. "X-X" INDICATES EQUIPMENT MARK SHOWN ON EQUIPMENT SCHEDULE. "1LA-3" IDENTIFIES PANEL EQUIPMENT IS CIRCUITED TO. REFER TO EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
	IN-GRADE PULLBOX INDICATOR. "XXXET" INDICATES LABEL SHOWN ON SCHEDULE. "I" IDENTIFIES SEQUENCE NUMBER SHOWN ON SITE AND RISER DIAGRAM. REFER TO PLANS AND EXTERIOR PULLBOX SCHEDULE FOR ADDITIONAL INFORMATION.
WIRING METHODS	
	WIRING.
	WIRING TURNED UP OR TOWARDS OBSERVER.
	WIRING TURNED DOWN OR AWAY FROM OBSERVER.
	SINGLE BRANCH CIRCUIT HOME RUN TO PANELBOARD WITH DEDICATED NEUTRAL CONDUCTOR. LETTER AND NUMBER NOTATION IDENTIFY PANEL AND CIRCUIT NUMBER.
	BRANCH CIRCUIT HOME RUN TO PANELBOARD: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS.
	BRANCH CIRCUIT HOME RUN TO PANELBOARD: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS. NUMBER IN BOX REFERS TO THE CONDUCTOR AND CONDUIT SCHEDULE.
	LOW VOLTAGE WIRING: DIVIDE, MEDIUM LINE.
	CONDUIT STUB. DIMENSION RECORD DRAWINGS AND MARK.
	CONDUCTOR & CONDUIT ("CC") SCHEDULE INDICATOR. "X" INDICATES CONDUCTOR MATERIAL. REFER TO ONE-LINE DIAGRAM.
	ADA ACCESS PUSH PLATE
	JUNCTION BOX.
	JUNCTION BOX, CEILING.
	JUNCTION BOX, SYSTEMS FURNITURE COMMUNICATION CONNECTION.
	JUNCTION BOX, SYSTEMS FURNITURE POWER CONNECTION.
	PULL BOX.

SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
WIRING DEVICES	
	RECEPTACLE, SINGLE: NEMA 5-20R.
	RECEPTACLE, DUPLEX: NEMA 5-20R.
	RECEPTACLE, DUPLEX, ABOVE COUNTER: NEMA 5-20R.
	RECEPTACLE, DUPLEX, CEILING: NEMA 5-20R.
	RECEPTACLE, DUPLEX, DEDICATED CIRCUIT: NEMA 5-20R.
	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, DRINKING FOUNTAIN: CONCEAL WATER COOLER RECEPTACLE BEHIND WATER COOLER. SEE MECHANICAL PLUMBING SHOP DRAWINGS FOR INSTALLATION REQUIREMENTS.
	RECEPTACLE, DUPLEX, ISOLATED GROUND: NEMA 5-20R.
	RECEPTACLE, DUPLEX, SWITCHED: NEMA 5-20R.
	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, WET LABEL, "WEATHERPROOF IN USE": NEMA 5-20R.
	RECEPTACLE, DUPLEX, HOSPITAL GRADE: NEMA 5-20R.
	RECEPTACLE, DUPLEX ON EMERGENCY POWER: NEMA 5-20R.
	RECEPTACLE, DUPLEX, HOSPITAL GRADE ON EMERGENCY POWER: NEMA 5-20R.
	RECEPTACLE, DUPLEX, CONNECTED TO UPS: NEMA 5-20R.
	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER: NEMA 5-20R.
	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, HOSPITAL GRADE: NEMA 5-20R.
	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, HOSPITAL GRADE ON EMERGENCY POWER: NEMA 5-20R.
	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, WEATHERPROOF: NEMA 5-20R.
	RECEPTACLE, DUPLEX, RECESSED: NEMA 5-20R.
	RECEPTACLE, DUPLEX, SWITCHED, RECESSED: NEMA 5-20R.
	RECEPTACLE, QUADRAPLEX: NEMA 5-20R.
	RECEPTACLE, QUADRAPLEX ON EMERGENCY POWER: NEMA 5-20R.
	RECEPTACLE, QUADRAPLEX, HOSPITAL GRADE: NEMA 5-20R.
	RECEPTACLE, QUADRAPLEX, HOSPITAL GRADE ON EMERGENCY POWER: NEMA 5-20R.
	RECEPTACLE, QUADRAPLEX, CONNECTED TO UPS: NEMA 5-20R.
	RECEPTACLE, QUADRAPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER: NEMA 5-20R.
	RECEPTACLE, SPECIAL PURPOSE. PROVIDE RECEPTACLE TO MATCH EQUIPMENT PLUG.
	RECEPTACLE, SPECIAL PURPOSE ON EMERGENCY POWER. PROVIDE RECEPTACLE TO MATCH EQUIPMENT PLUG.
	RECEPTACLE, DRYER: NEMA 14-30R.
	RECEPTACLE, RANGE: NEMA 14-50R.
	MULTI-OUTLET ASSEMBLY: NEMA 5-20R.
	DROP CORD. SEE DETAIL.
	THERMOSTAT.
	FLUSH FLOOR BOX. "F" SHOWN ON DRAWINGS. REFER TO WIRING DEVICE SCHEDULE IN THE ELECTRICAL SPECIFICATIONS FOR CONFIGURATION AND DEVICES. FBB = FLOORBOX, RECTANGULAR COVER, GANGS FBB = FLOORBOX, ROUND COVER, GANGS DW = DATA CABLES A/E = A/V GANGS
	POWER POLE. "P" SHOWN ON DRAWINGS. REFER TO WIRING DEVICE SCHEDULE IN THE ELECTRICAL SPECIFICATIONS FOR CONFIGURATION AND DEVICES.
	FLUSH FIRE RATED POKE THRU. "P" SHOWN ON DRAWINGS. REFER TO WIRING DEVICE SCHEDULE IN THE ELECTRICAL SPECIFICATIONS FOR CONFIGURATION AND DEVICES. PTB = POKE-THRU GANGS DW = DATA CABLES A/E = A/V GANGS
	SWITCH, DIMMER.
	SWITCH, SINGLE POLE ("X" INDICATES FIXTURES CONTROLLED).
	SWITCH, DOUBLE POLE ("X2" INDICATES FIXTURES CONTROLLED).
	SWITCH, THREE-WAY ("X3" INDICATES FIXTURES CONTROLLED).
	SWITCH, FOUR-WAY ("X4" INDICATES FIXTURES CONTROLLED).
	SWITCH, DOOR.
	SWITCH, KEY OPERATED.
	SWITCH, PILOT LIGHT.
	SWITCH, TIMER OPERATED.
	SWITCH, WEATHERPROOF.
	RECEPTACLE, DUPLEX, TAMPER RESISTANT: NEMA 5-20R.
	RECEPTACLE, QUADRAPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, HOSPITAL GRADE: NEMA 5-20R.
	RECEPTACLE, QUADRAPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, HOSPITAL GRADE ON EMERGENCY POWER: NEMA 5-20R.
	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, CONNECTED TO UPS: NEMA 5-20R.
	RECEPTACLE, DUPLEX, WITH USB OUTLET
	RECEPTACLE, DUPLEX, RECESSED, NEMA 5-20R. AUTOMATICALLY CONTROLLED THROUGH TIME OR OCCUPANCY BASED CONTROLS (REFER TO PLANS FOR CONTROL METHOD)
	RECEPTACLE, QUADRAPLEX, RECESSED, NEMA 5-20R, AUTOMATICALLY CONTROLLED THROUGH TIME OR OCCUPANCY BASED CONTROLS (REFER TO PLANS FOR CONTROL METHOD)
	INDICATES A RECEPTACLE IS AUTOMATICALLY CONTROLLED THROUGH TIME OR OCCUPANCY BASED CONTROLS (REFER TO PLANS FOR CONTROL METHOD)

SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
SITE ELECTRICAL AND COMMUNICATIONS UTILITIES	
	ELECTRIC LINE. THIN LINE: 1Ø = SINGLE PHASE, 2Ø = 2-PHASE, 3Ø = 3-PHASE, Ø = OVERHEAD, U = UNDERGROUND, P = PRIMARY, S = SECONDARY
	LIGHTNING ARRESTOR.
	UTILITY POLE.
	UTILITY, DISTRIBUTION SWITCH OR SWITCHING STATION.
	UTILITY, PRIMARY ELECTRICAL HAND HOLE.
	UTILITY SERVICES, MANHOLE.
	UTILITY, COMMUNICATIONS MANHOLE.
	UTILITY, ELECTRICAL MANHOLE.
	UTILITY, TELEPHONE MANHOLE.
	PRECAST CONCRETE, COMMUNICATION VAULT.
	PRECAST CONCRETE, ELECTRICAL VAULT.
	PRECAST CONCRETE, TELEPHONE VAULT.
	PRECAST CONCRETE, MANHOLE, TRANSFORMER VAULT.
	PRECAST CONCRETE, TRANSFORMER PAD.
	IN-GRADE PULLBOX, HAND HOLE. OPTIONS WITH SQUARE OR ROUND CORNERS. REFER TO PLANS AND EXTERIOR PULLBOX SCHEDULE FOR ADDITIONAL INFORMATION.
	
	SUBSTATION.
	TRANSFORMER.
ELECTRICAL POWER AND DISTRIBUTION	
	FUSE WITH RATING (ONE-LINE DIAGRAM).
	DISCONNECT, FUSED (ONE-LINE DIAGRAM).
	DISCONNECT, NONFUSED (ONE-LINE DIAGRAM).
	DISCONNECT WITH FUSE AND MOTOR STARTER COMBINATION (ONE-LINE DIAGRAM).
	OVERLOAD RELAY (ONE-LINE DIAGRAM).
	STARTER (ONE-LINE DIAGRAM).
	CIRCUIT BREAKER (ONE-LINE DIAGRAM).
	CIRCUIT BREAKER WITH SHUNT TRIP (ONE-LINE DIAGRAM).
	CIRCUIT BREAKER, MOTOR CIRCUIT PROTECTION (ONE-LINE DIAGRAM).
	CIRCUIT BREAKER, ADJUSTABLE TRIP. "IAF" REPRESENTS FRAME RATING. "IAT" REPRESENTS TRIP UNIT. (ONE-LINE DIAGRAM).
	CIRCUIT BREAKER, ADJUSTABLE TRIP CURVE. L=LONG TIME CURVE ADJUSTMENT, S=SHORT TIME CURVE ADJUSTMENT, INSTANTANEOUS CURVE ADJUSTMENT, G=GROUND FAULT ADJUSTMENT FULLY COMPLIANT WITH NEC 210.13, 215.10 AND 230.95. (ONE-LINE DIAGRAM).
	CIRCUIT BREAKER, SOLID STATE WITH ARC ENERGY REDUCTION SYSTEM INCLUDING ENERGY REDUCING MAINTENANCE SWITCHING WITH LOCAL STATUS INDICATOR FULLY COMPLIANT WITH NEC 240.87 (ONE-LINE DIAGRAM)
	CIRCUIT BREAKER, DRAW OUT (ONE-LINE DIAGRAM).
	MOTOR.
	TRANSFORMER (ONE-LINE DIAGRAM).
	POTENTIAL TRANSFORMER (PT/VT) (ONE-LINE DIAGRAM).
	CURRENT TRANSFORMER (CT) (ONE-LINE DIAGRAM).
	BATTERY (ONE-LINE DIAGRAM).
	CAPACITOR (ONE-LINE DIAGRAM).
	DELTA CONNECTION (ONE-LINE DIAGRAM).
	WYE CONNECTION (ONE-LINE DIAGRAM).
	DISTRIBUTION PANELBOARD, MOTOR CONTROL CENTER, PLUG-IN BUSWAY, MEDIUM VOLTAGE SWITCHBOARD (ONE-LINE DIAGRAM).
	PANELBOARD (ONE-LINE DIAGRAM).
	PANELBOARD WITH MAIN LUGS ONLY. BUS SIZE AND PHASE AS SHOWN (ONE-LINE DIAGRAM).
	PANELBOARD WITH MAIN CIRCUIT BREAKER. SIZE AND PHASE AS SHOWN (ONE-LINE DIAGRAM).

SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
ELECTRICAL POWER AND DISTRIBUTION	
	PANELBOARD WITH MAIN AND SUB FEED CIRCUIT BREAKER (ONE-LINE DIAGRAM).
	PANELBOARD WITH MAIN LUGS ONLY AND SURGE PROTECTION WITH CIRCUIT BREAKER (ONE-LINE DIAGRAM).
	PANELBOARD WITH SUB FEED LUGS (ONE-LINE DIAGRAM).
	PANELBOARD WITH CIRCUIT BREAKER AND SUB FEED LUGS (ONE-LINE DIAGRAM).
	CT CABINET PER UTILITY'S REQUIREMENTS (ONE-LINE DIAGRAM).
	CT CABINET PER UTILITY'S REQUIREMENTS (ONE-LINE DIAGRAM).
	TRANSFER SWITCH (ONE-LINE DIAGRAM).
	DIGITAL MULTIMETER (ONE-LINE DIAGRAM).
	EARTH GROUND (ONE-LINE DIAGRAM).
	SERVICE ENTRANCE SURGE PROTECTION (ONE-LINE DIAGRAM).
	GENERATOR, ANNUNCIATOR (ONE-LINE DIAGRAM).
	PUSH BUTTON, REMOTE EMERGENCY STOP.
	GENERATOR, POWER (ONE-LINE DIAGRAM).
	KIRK-KEY MECHANICAL INTERLOCK (ONE-LINE DIAGRAM)
	METER.
	BROAD BAND FILTER (ONE-LINE DIAGRAM).
	VARIABLE FREQUENCY MOTOR CONTROLLER (ONE-LINE DIAGRAM).
	DIODE (ONE-LINE DIAGRAM).
	DISCONNECT SWITCH, FUSED.
	DISCONNECT SWITCH, UNFUSED.
	STARTER, COMBINATION WITH DISCONNECT SWITCH.
	STARTER OR MOTOR CONTROLLER.
	PUSHBUTTON.
	PUSHBUTTONS, MOTOR CONTROL.
	PANELBOARD CABINET, FLUSH MOUNTED.
	PANELBOARD CABINET, SURFACE MOUNTED, 1 SECTION.
	PANELBOARD CABINET, SURFACE MOUNTED, 2 SECTION.
	DISTRIBUTION PANEL OR SWITCHBOARD.
	LIGHTING RELAY, CONTACTOR PANEL, OR DIMMING ENCLOSURE.
	SWITCH, TOGGLE MOTOR STARTER WITH OVERLOAD PROTECTION.
	TRANSFORMER (SEE ONE-LINE FOR SIZE)
	BUSWAY.
	RELAY CONTACT, NORMALLY CLOSED (ONE-LINE DIAGRAM).
	RELAY CONTACT, NORMALLY OPEN (ONE-LINE DIAGRAM).
	PUSHBUTTON, NORMALLY CLOSED (ONE-LINE DIAGRAM).
	PUSHBUTTON, NORMALLY OPEN (ONE-LINE DIAGRAM).
	PRESSURE SWITCH, CLOSE ON INCREASE (ONE-LINE DIAGRAM).
	PRESSURE SWITCH, OPEN ON INCREASE (ONE-LINE DIAGRAM).
	SWITCH, NORMALLY CLOSED FLOAT (ONE-LINE DIAGRAM).
	SWITCH, NORMALLY OPEN FLOAT (ONE-LINE DIAGRAM).
	SWITCH, NORMALLY CLOSED LIMIT (ONE-LINE DIAGRAM).
	SWITCH, NORMALLY OPEN LIMIT (ONE-LINE DIAGRAM).
	SWITCH, NORMALLY CLOSED TEMPERATURE ACTIVATED (ONE-LINE DIAGRAM).
	SWITCH, NORMALLY OPEN TEMPERATURE ACTIVATED (ONE-LINE DIAGRAM).
	SWITCH, NORMALLY CLOSED TIME DELAY (ONE-LINE DIAGRAM).
	SWITCH, NORMALLY OPEN TIME DELAY (ONE-LINE DIAGRAM).
	SWITCH, NORMALLY CLOSED FOOT OPERATED (ONE-LINE DIAGRAM).
	SWITCH, MULTIPOSITION (ONE-LINE DIAGRAM).
	SWITCH, SINGLE BREAK (ONE-LINE DIAGRAM).
	SPECIALIZED TRANSFER SWITCH (ONE-LINE DIAGRAM).
	GENERATOR ENGINE START MONITORING SYSTEM GENERATOR MODULE (ONE-LINE DIAGRAM).
	GENERATOR ENGINE START MONITORING SYSTEM ATS MODULE (ONE-LINE DIAGRAM).
	PHASE ROTATION MONITOR (ONE-LINE DIAGRAM).

ABBREVIATIONS	
NOTE: ALL ABBREVIATIONS MAY NOT BE USED.	
1P	SINGLE POLE
1PH	SINGLE-PHASE
1WAY	ONE-WAY
2C	TWO-CONDUCTOR
2WAY	TWO-WAY
3C	THREE-CONDUCTOR
3WAY	THREE-WAY
4OUT	QUADRUPLE RECEPTACLE
4PST	OUTLET
4PST	FOUR-POLE DOUBLE THROW
4PST	FOUR-POLE SINGLE THROW
4W	FOUR-WIRE
4WAY	FOUR-WAY
A	ABOVE COUNTER
AC	ARMORED CABLE
ACS	ACCESS CONTROL SYSTEM
AD	AMERICANS WITH DISABILITIES ACT
ADJ	ADJACENT
AFB	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AI	AMPERE INTERRUPTING CAPACITY
ALUM	ALUMINUM
AMP	AMPERE
ANN	ANNUNCIATOR
AP	ACCESS POINT (WIRELESS DATA)
AS	AS REQUIRED
ASC	AMPS SHORT CIRCUIT
AT	AUTOMATIC TRANSFER SWITCH
AV	AUDIO VISUAL
AWG	AMERICAN WIRE GAGE
B	BUCK-BUST TRANSFORMER
XBMR	
BBF	BELOW FINISHED FLOOR
BFG	BELOW FINISHED GRADE
CB	Ceilings mounted
CAT	CATEGORY
CATV	COMMUNITY ANTENNA TELEVISION
CB	CIRCUIT BREAKER
CSBA	CUSTOM COLOR AS SELECTED BY ARCHITECT
CCTV	CLOSED CIRCUIT TELEVISION
CF/CI	CONTRACTOR FURNISHED/CONTRACTOR INSTALLED
CF/CI	CONTRACTOR FURNISHED/OWNER INSTALLED
CFBA	CUSTOM FINISH AS SELECTED BY ARCHITECT
CI	CIRCUIT INDICATOR
CKT	CIRCUIT
CM	CONSTRUCTION MANAGER
CND	CONDUIT
CO	CONVENIENCE OUTLET
COR	CONTRACTING OFFICER'S REPRESENTATIVE
CP	CONTROL PANEL
CR	CARD READER
CT	CURRENT TRANSFORMER
CTV	CABLE TELEVISION
DBT	COPPER
dB	UNIT OF SOUND LEVEL
dBA	DOUBLE POLE, DOUBLE THROW
DS	DISCONNECT SWITCH
E	ENHANCED
EA	EACH
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ENT	ELECTRIC NONMETALLIC TUBING
EPO	EMERGENCY POWER OFF
EQUIP	EQUIPMENT
ER	EQUIPMENT ROOM
EX	EXISTING
FA	FURNITURE MOUNTED
FX	FIRE ALARM
FLC	FIRE ALARM CONTROL PANEL
FPA	FULL LOAD AMPS
FMB	FLEXIBLE METAL CONDUIT
FOB	FREIGHT ON BOARD
FPP	FIBER PATCH PANEL
FVR	FULL VOLTAGE
FNR	NON-REVERSING
FNR	FULL VOLTAGE REVERSING GENERATOR
FCFI	GROUND FAULT INTERRUPTER
GFP	GROUND FAULT PROTECTION
GIG	GIGA HERTZ
GND	GROUND
HD	HEAVY DUTY
HID	HIGH INTENSITY DISCHARGE
HDA	HAND-OFF-AUTOMATIC
HP	HORSE POWER
HPF	HIGH POWER FACTOR
HPS	HIGH PRESSURE SODIUM
HV	HIGH VOLTAGE
HW	HORIZONTAL WIRE MANAGEMENT
HZ	HERTZ
IO	INPUT/OUTPUT
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
INIS	INSULATED ISOLATED
IR	INFRARED
J-BOX	JUNCTION BOX
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KVAR	KILOVOLT AMPERE REACTIVE
KWH	KILOWATT
KWH	KILOWATT HOUR
LEM	LIGHT EMITTING DIODE
LFC	LIQUID TIGHT FLEXIBLE METAL CONDUIT
LFC	LIQUID TIGHT FLEXIBLE NONMETALLIC CONDUIT
LPS	LOW PRESSURE SODIUM
LRA	LOCKED ROTOR AMPS
LTG	LIGHTING
LVT	LOW VOLTAGE
MATV	MASTER ANTENNA TELEVISION SYSTEM
MAX	MAXIMUM
MC	METAL CLAD
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTOR
MGP	MAIN DISTRIBUTION PANEL
MGR	MOTOR GENERATOR
MH	MANHOLE
MN	MINIMUM
ML	MAIN LUGS ONLY
MOCP	MAXIMUM OVERCURRENT PROTECTION
MTS	MANUAL TRANSFER SWITCH
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NCE	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFC	NATIONAL FIRE CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NL	NOT IN CONTACT
NLT	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
OC	OVER CURRENT PROTECTION
OE	OWNER ELECTRONICS
OF/CI	OWNER FURNISHED/CONTRACTOR INSTALLED
OF/CI	OWNER FURNISHED/OWNER INSTALLED
OPP	OBTAIN FROM PLANS
ODR	OVERHEAD (COLING) DOOR
OL	OVERLOAD
PL	PUSHBUTTON
PF	POWER FACTOR
PH	PHASE
PNL	PANEL
PM	PLENUM
PAIR	PAIR
PS	POWER SUPPLY
PT	POTENTIAL TRANSFORMER
PTZ	PANTIL/TZOOM
PH	PHOTO VOLTAGE
QTY	QUANTITY
R	REMOVE
RCP	REFLECTED CEILING PLAN
RIG	RIGID METAL CONDUIT
RNC	RIGID NONMETALLIC CONDUIT
RO	REMOVE DOOR OPEN
RPM	REVOLUTIONS PER MINUTE
RSP	RISER PATCH PANEL
RR	REMOVE AND RELOCATE
S	START/STOP
SCA	SHORT CIRCUIT AMPS
SCBA	STANDARD SCBA AS SELECTED BY ARCHITECT
SEC	SECURITY
SF	SQUARE FOOT (FEET)
SFS	STANDARD FINISH AS SELECTED BY ARCHITECT
SPD	SURGE PROTECTIVE DEVICE
SPST	SINGLE POLE, DOUBLE THROW
SPEC	SPECIFICATION
SPC	STATION PATCH PANEL
SPST	SINGLE POLE, SINGLE THROW
SW	SWITCH
SWB	SWITCHBOARD
SWGR	SWITCHGEAR
TL	TWIST LOCK
TR	TELEPHONE POLE
TR	TWISTED PAIR
TR	TELECOMMUNICATIONS ROOM
TTB	TELEPHONE TERMINAL BOARD
TV	TELEVISION
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TY	TYPICAL
UF	UNDERFLOOR
UGND	UNDERGROUND
U	UNINTERRUPTIBLE POWER SUPPLY
V	VOLTS
V	VOLTS AMPERE
VCVF	VARIABLE FREQUENCY MOTOR D
CONT	CONTROLLER
VIC	VIDEO INTERCOM SYSTEM
VSD	VIDEO SURVEILLANCE SYSTEM
VVM	VERTICAL WIRE

DEFINITIONS

NOTE: ALL DEFINITIONS MAY NOT BE USED. INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN," "NOTED," "SCHEDULED," AND "SPECIFIED" ARE USED TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED. DIRECTED: TERMS SUCH AS "DIRECTED," "REQUESTED," "AUTHORIZED," "SELECTED," "APPROVED," "REQUIRED," AND "PERMITTED" MAN "DIRECTED BY THE ENGINEER," "REQUESTED BY THE ENGINEER," AND SIMILAR PHRASES. APPROVED: THE TERM "APPROVED," WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IMPLIES APPROVING TO DISC AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS. FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS." INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, PLACING, ANCHORING, OR APPLYING" PERTAINING TO DISC AND UNIFORM, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS." PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE, AND READY FOR THE INTENDED USE." INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION OPERATION, INCLUDING INSTALLATION, MAINTENANCE, REPAIR, AND SIMILAR OPERATIONS. INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE OPERATIONS THEY ARE ENGAGED TO PERFORM. TECHNOLOGY SYSTEMS: THE TERM "TECHNOLOGY SYSTEMS" IS USED TO DESCRIBE ALL LOW VOLTAGE SYSTEMS GENERALLY REFERRED TO AS "TELECOMMUNICATIONS SYSTEMS." THIS TERM DOES NOT NECESSARILY LIMITED TO ALL SYSTEMS WHICH UTILIZE VOLTAGES OF LESS THAN 71 VOLTS SUCH AS SOUND SYSTEMS, VIDEO SYSTEMS, TV SYSTEMS, SECURITY SYSTEMS, VOICE AND DATA CABLEING SYSTEMS, ETC.
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GENERAL ELECTRICAL NOTES

1. CLARIFICATION METHODS: AT THE TIME OF BIDDING, BIDDERS SHALL FAMILIARIZE THEMSELVES WITH THE DRAWINGS AND SPECIFICATIONS. ANY QUESTIONS, MISUNDERSTANDINGS, CONFLICTS, DELETIONS, DISCONTINUED PRODUCTS, CATALOG NUMBER DISCREPANCIES, DISCREPANCIES BETWEEN THE EQUIPMENT SUPPLIED AND THE INTENT OR FUNCTION OF THE EQUIPMENT, ETC., SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER IN WRITING FOR CLARIFICATION PRIOR TO ISSUANCE OF THE FINAL ADDENDUM AND BIDDING OF THE PROJECT. WHERE DISCREPANCIES OR MULTIPLE INTERPRETATIONS OCCUR, THE MOST STRINGENT (WHICH IS GENERALLY RECOGNIZED AS THE MOST COSTLY) THAT MEETS THE INTENT OF THE DOCUMENT SHALL BE ENFORCED.
2. OWNER FURNISHED ITEMS: THE OWNER WILL FURNISH MATERIAL AND EQUIPMENT AS INDICATED IN THE CONTRACT DOCUMENTS TO BE INCORPORATED INTO THE WORK. THESE ITEMS ARE ASSIGNED TO THE INSTALLER AND COSTS FOR RECEIVING, HANDLING, STORAGE, IF REQUIRED, AND INSTALLATION ARE INCLUDED IN THE CONTRACT SUM.
 - A. THE INSTALLER'S RESPONSIBILITIES ARE THE SAME AS IF THE INSTALLER FURNISHED THE MATERIALS OR EQUIPMENT.
 - B. THE OWNER WILL ARRANGE AND PAY FOR DELIVERY OF OWNER FURNISHED ITEMS FREIGHT ON BOARD JOY SITE AND THE INSTALLER WILL INSPECT DELIVERIES FOR DAMAGE. IF OWNER FURNISHED ITEMS ARE DAMAGED, DEFECTIVE OR MISSING, DOCUMENT DAMAGED ITEMS WITH THE TRANSPORT COMPANY AND THE OWNER WILL ARRANGE FOR REPLACEMENT. THE OWNER WILL ALSO ARRANGE FOR MANUFACTURER'S FIELD SERVICES, AND THE DELIVERY OF MANUFACTURER'S WARRANTIES AND BONDS TO THE INSTALLER.
 - C. THE INSTALLER IS RESPONSIBLE FOR DESIGNATING THE DELIVERY DATES OF OWNER FURNISHED ITEMS AND FOR RECEIVING, UNLOADING AND HANDLING OWNER FURNISHED ITEMS AT THE SITE. THE INSTALLER IS RESPONSIBLE FOR PROTECTING OWNER FURNISHED ITEMS FROM DAMAGE, INCLUDING DAMAGE FROM EXPOSURE TO THE ELEMENTS, AND TO REPAIR OR REPLACE ITEMS DAMAGED AS A RESULT OF HIS OPERATIONS.
3. EXPOSED STRUCTURE AREAS (EXCLUDING MECHANICAL, ELECTRICAL, AND COMMUNICATION SPACES): INSTALLED RACEWAYS BETWEEN DECK AND STRUCTURE WHEREVER POSSIBLE IN EXPOSED STRUCTURE CEILING AREAS. ROUNDCAVES IN CONCEALED AREAS WHEREVER POSSIBLE. REFER ALL CONDITIONS WHERE RACEWAYS MUST BE INSTALLED WHICH CANNOT COMPLY WITH THESE REQUIREMENTS TO THE ARCHITECT.
4. SUBMITTALS: PROVIDE ORIGINAL ELECTRONIC PDF FORMAT, BOUND, BOMARKED (EACH SECTION AND PRODUCT), AND HIGHLIGHTED JOY NAME AND SUBCONTRACTOR SHALL BE ON THE FRONT COVER. PREPARE INDEX OF EQUIPMENT SUMMING IN EACH TAB.
5. REFLECTED CEILING PLANS, COORDINATE THE LOCATION OF LIGHT FIXTURES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. REFER ALL DISCREPANCIES TO THE ARCHITECT AND ENGINEER.
6. ALL WORK SHALL BE DONE ACCORDING TO THE CURRENT NATIONAL ELECTRIC CODE (NEC), IBC, NFPA, AND IFC. COMPLIANCE AND FINAL APPROVAL IS SUBJECT TO THE ON SITE FIELD INSPECTION OF THE AHP.

ELECTRICAL SHEET INDEX	
EE001	ELECTRICAL COVER SHEET
EE002	SYMBOLS LEGEND
EE501	ELECTRICAL DETAILS
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EE702	TYPICAL LABELING DETAILS
EP100	LEVEL 1 OVERALL POWER PLAN
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EP102	LEVEL 2 POWER PLAN
EP550	TELECOM EQUIPMENT RACK ELEVATIONS
EP551	TELECOM DETAILS
EP601	ONE-LINE DIAGRAM
EP602	ELECTRICAL EQUIPMENT AND FLOORBOX SCHEDULES
EP650	TELECOM RISER DIAGRAMS
EL101	LEVEL 1 LIGHTING PLAN
EL101	LEVEL 1 AUXILIARY PLAN

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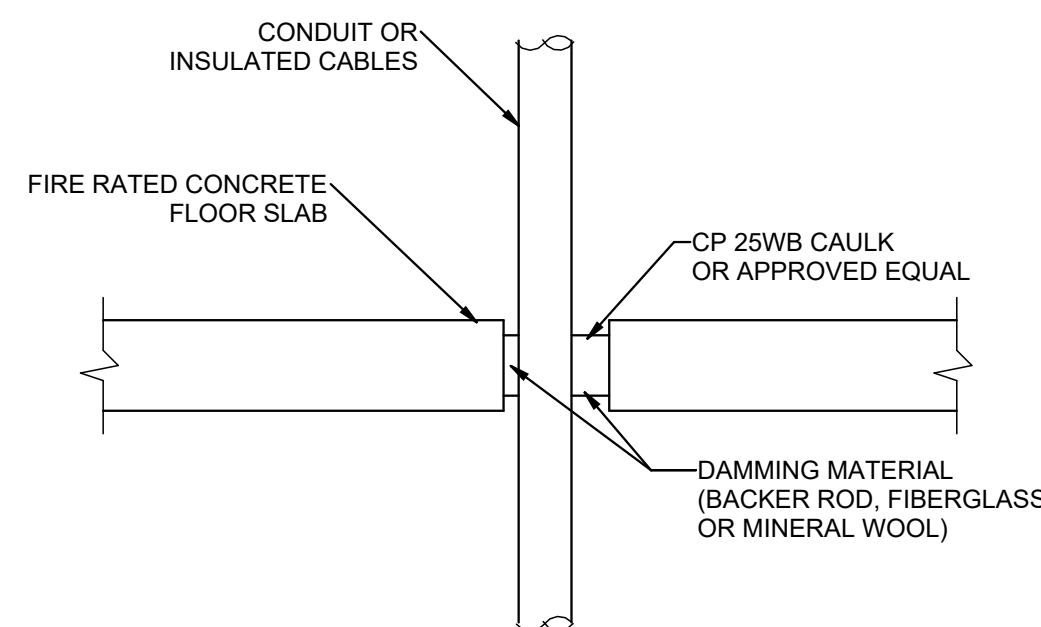

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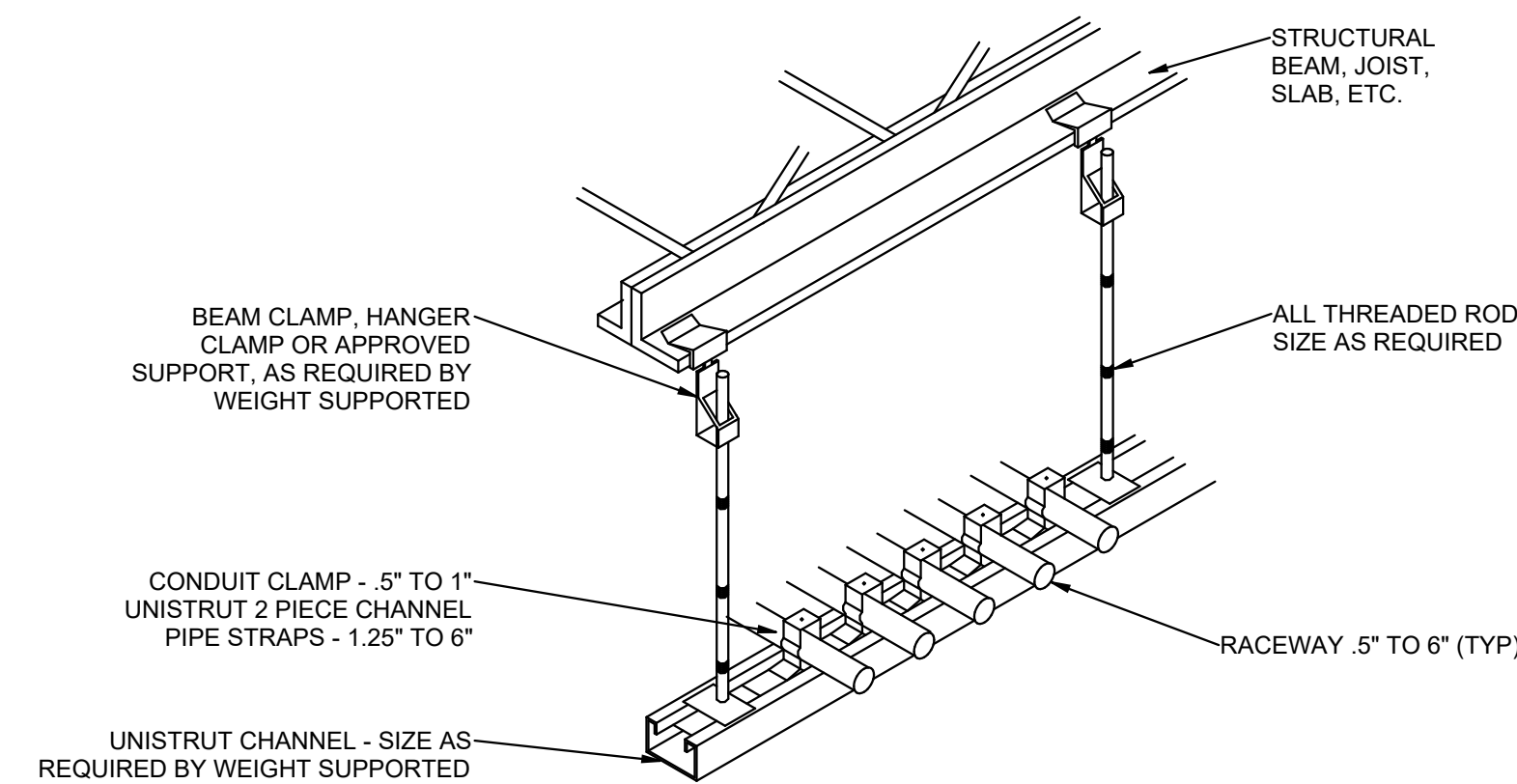
SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
LIGHTING	
(W-3) 	FIXTURE IDENTIFICATION: (W-3) INDICATES FIXTURE TYPE AS SCHEDULED.
(W-3E) 	FIXTURE IDENTIFICATION: EMERGENCY LIGHTING FIXTURE WITH BATTERY PACK AND/OR GENERATOR AND/OR CENTRALIZED INVERTER AND/OR CENTRALIZED UPS CONNECTION AS INDICATED IN PLANS. (W-3E) INDICATES FIXTURE TYPE AS SCHEDULED.
EM	EMERGENCY.
NL	NIGHT LIGHT. DO NOT SWITCH.
↑	EGRESS DIRECTION ARROW (EXIT SIGNS).
	EXIT SIGN: SINGLE FACE; CEILING MOUNTED
	EXIT SIGN: SINGLE FACE; WALL MOUNTED
	EXIT SIGN: DOUBLE FACE; CEILING MOUNTED
	EXIT SIGN: DOUBLE FACE; WALL MOUNTED
LIGHTING CONTROL	
※	OCCUPANCY SENSOR, DUAL TECHNOLOGY, OMNI-DIRECTIONAL, CEILING.
※	OCCUPANCY SENSOR, DUAL TECHNOLOGY, WALL.
	OCCUPANCY SENSOR, DUAL TECHNOLOGY, DIRECTIONAL.
	PHOTOCELL.
	PHOTOCELL, WALL MOUNTED.
	VACANCY SENSOR, DUAL TECHNOLOGY, OMNI-DIRECTIONAL, CEILING.
	VACANCY SENSOR, DUAL TECHNOLOGY, WALL.
	CEILING FAN.
	SWITCH/OCCUPANCY SENSOR COMBO, DUAL TECHNOLOGY, WALL.
	SWITCH/VACANCY SENSOR COMBO, DUAL TECHNOLOGY, WALL.
	DIMMER SWITCH/OCCUPANCY SENSOR COMBO, DUAL TECHNOLOGY, WALL.
	DIMMER SWITCH/VACANCY SENSOR COMBO, DUAL TECHNOLOGY, WALL.
a.b 	LOW VOLTAGE DIGITAL LIGHTING CONTROL SWITCH: LETTER "a,b" INDICATES ZONING WHERE SHOWN (REFER TO PLANS, SCHEDULES, AND DETAILS FOR EXACT BUTTON CONFIGURATION AND PROGRAMMING REQUIREMENTS)
	DIGITAL LIGHTING ROOM CONTROLLER
	DIGITAL LIGHTING DIMMING CONTROLLER
	DIGITAL PLUG LOAD CONTROLLER
	LIGHTING NETWORK SWITCH.
	LIGHTING NETWORK ROUTER.
	LIGHTING NETWORK SEGMENT MANAGER
	LIGHTING NETWORK BRIDGE
	LIGHTING EMERGENCY TRANSFER DEVICE
	LIGHTING SPACE CONTROL TYPE. X INDICATES TYPE. SEE SCHEDULE / DIAGRAM.
TWO-WAY COMMUNICATIONS	
	TWO-WAY COMMUNICATIONS MAIN CONTROL STATION (ANNUNCIATOR)
	TWO-WAY COMMUNICATIONS REMOTE CALL STATION
	DATA CONNECTION: TWO-WAY EMERGENCY COMMUNICATION SYSTEM.

SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
FIRE ALARM	
	FIRE ALARM ANNUNCIATOR PANEL.
	FIRE ALARM CONTROL PANEL, SEMI-RECESSED.
	FIRE ALARM TERMINAL CABINET: NAC, SLC, SPEAKER CIRCUITS, AMPLIFIERS, BATTERIES
	CONTROL PANEL FOR HVAC, SMOKE CONTROL, STAIR PRESSURIZATION.
	VOICE EVACUATION PANEL.
	PRE-ACTION CONTROL PANEL.
	REMOTE VOICE EVACUATION MICROPHONE.
	FIRE PUMP CONTROLLER.
	JOCKEY PUMP CONTROLLER.
	AUTOMATIC DOOR CLOSERS: DOOR CLOSERS SHALL BE FURNISHED WITH DOOR HARDWARE AND CONNECTED BY FIRE ALARM INSTALLER.
	CONTROL MODULE.
	MONITOR MODULE.
	FIRE ALARM MANUAL PULL STATION.
	SHUT DOWN RELAY: INSTALL RELAY IN CONTROL CIRCUIT OF EQUIPMENT TO BE CONTROLLED IN THE EVENT OF A FIRE.
	WATER FLOW SWITCH. FLOW SWITCHES SHALL BE PROVIDED AND INSTALLED BY FIRE SPRINKLER CONTRACTOR AND SHALL BE CONNECTED TO LOCATIONS SHOWN ON THE FIRE SPRINKLER SHOP DRAWINGS.
	VALVE SUPERVISORY SWITCH, TAMPER SWITCH. TAMPER SWITCHES SHALL BE PROVIDED AND INSTALLED BY FIRE SPRINKLER CONTRACTOR AND SHALL BE CONNECTED TO LOCATIONS SHOWN ON THE FIRE SPRINKLER SHOP DRAWINGS.
	PRESSURE SUPERVISORY SWITCH: PRESSURE SWITCHES SHALL BE PROVIDED AND INSTALLED BY FIRE SPRINKLER CONTRACTOR AND SHALL BE CONNECTED TO LOCATIONS SHOWN ON THE FIRE SPRINKLER SHOP DRAWINGS..
	MAGNETIC DOOR HOLDER.
	DETECTOR, SMOKE.
	DETECTOR, SMOKE, WALL MOUNTED.
	DETECTOR, SMOKE WITH AUXILIARY CONTACT.
	DETECTOR, SMOKE, BEAM RECEIVER.
	DETECTOR, SMOKE, BEAM TRANSMITTER.
	DETECTOR, SMOKE, ELEVATOR RECALL DESIGNATION.
	DETECTOR, SMOKE WITH GUARD.
	DETECTOR, SMOKE, RESIDENTIAL.
	DETECTOR, SMOKE WITH STROBE.
	DETECTOR, SMOKE, RESIDENTIAL WITH SOUNDER BASE.
	DETECTOR, SMOKE, AIR SAMPLING SYSTEM PORT LOCATION.
	DETECTOR, SMOKE, DUCT WITH HOUSING AND SAMPLING TUBE.
	SMOKE DAMPER. 120V POWER FROM ELECTRICAL SYSTEM.
	COMBINATION FIRE/SMOKE DAMPER. 120V POWER FROM ELECTRICAL SYSTEM.
	REMOTE ALARM INDICATING AND TEST SWITCH.
	DETECTOR, HEAT.
	DETECTOR, CARBON MONOXIDE.
	STROBE, WALL MOUNTED.
	STROBE, WALL MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.
	ALARM, HORN/SPEAKER, WALL MOUNTED, WEATHERPROOF.
	ALARM, HORN/STROBE, WALL MOUNTED, ONE ASSEMBLY.
	ALARM, HORN/STROBE, WALL MOUNTED, ONE ASSEMBLY. SUBSCRIPT INDICATES CANDELA RATING.
	ALARM, CHIME/STROBE, WALL MOUNTED, ONE ASSEMBLY.
	ALARM, HORN/STROBE WITH GUARD, WALL MOUNTED, ONE ASSEMBLY.
	ALARM, MINI HORN/STROBE, WALL MOUNTED, ONE ASSEMBLY.
	SPEAKER, WALL MOUNTED, EVACUATION.
	SPEAKER, WALL MOUNTED, EVACUATION, COMBINATION STROBE. SUBSCRIPT INDICATES CANDELLA RATING.
	ALARM, HORN/STROBE, ONE ASSEMBLY, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.
	ALARM, HORN, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.
	SPEAKER/STROBE, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.
	SPEAKER, CEILING MOUNTED.
	ALARM, STROBE, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.
	BELL, ELECTRIC. 120V FROM ELECTRICAL SYSTEM OR 24V FROM FIRE ALARM SYSTEM

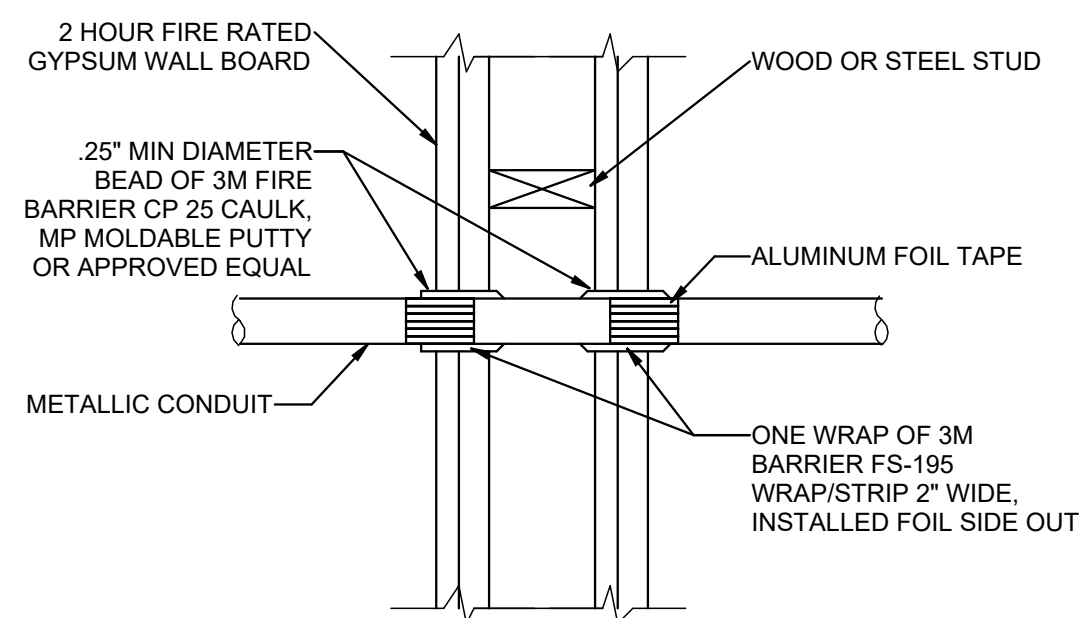
SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
CLOCK	
	CLOCK.
	CLOCK, SURFACE WITH WIRE GUARD.
NURSE CALL	
	JUNCTION BOX.
	CORRIDOR LIGHT.
	BATHROOM PULL CORD STATION.
	DUTY STATION.
	EMERGENCY ASSISTANCE CALL STATION.
	EMERGENCY ASSISTANCE CODE BLUE CALL STATION.
	PATIENT STATION.
	STAFF STATION.
	TOUCH SCREEN NURSE CALL MASTER STATION.
	ZONE LIGHT CONTROLLER.
	NURSE CALL AREA CONTROL UNIT & POWER SUPPLIES.
TV DISTRIBUTION	
	TV DISTRIBUTION CABLE, INDIVIDUAL DROPS.
	TV DISTRIBUTION CABLE, TRUNK.
	COMBINER.
	DIRECTIONAL COUPLER.
	DISTRIBUTION AMPLIFIER (ONE-LINE DIAGRAM).
	SPLITTER (ONE-LINE DIAGRAM).
	TV OUTLET.
	SATELLITE ANTENNA.
	TV ANTENNA (ONE-LINE DIAGRAM).
	TERMINATOR, 75 OHM (TV DISTRIBUTION).
	HDMI RECEPTACLE WITH SINGLE GANG BACKBOX AND 1.25" CONDUIT STUBBED TO ACCESSIBLE CEILING. PROVIDE 2:1 HDMI CABLE BETWEEN HDMI RECEPTACLES. "X" INDICATES QUANTITY OF HDMI PORTS WHEN GREATER THAN 1.



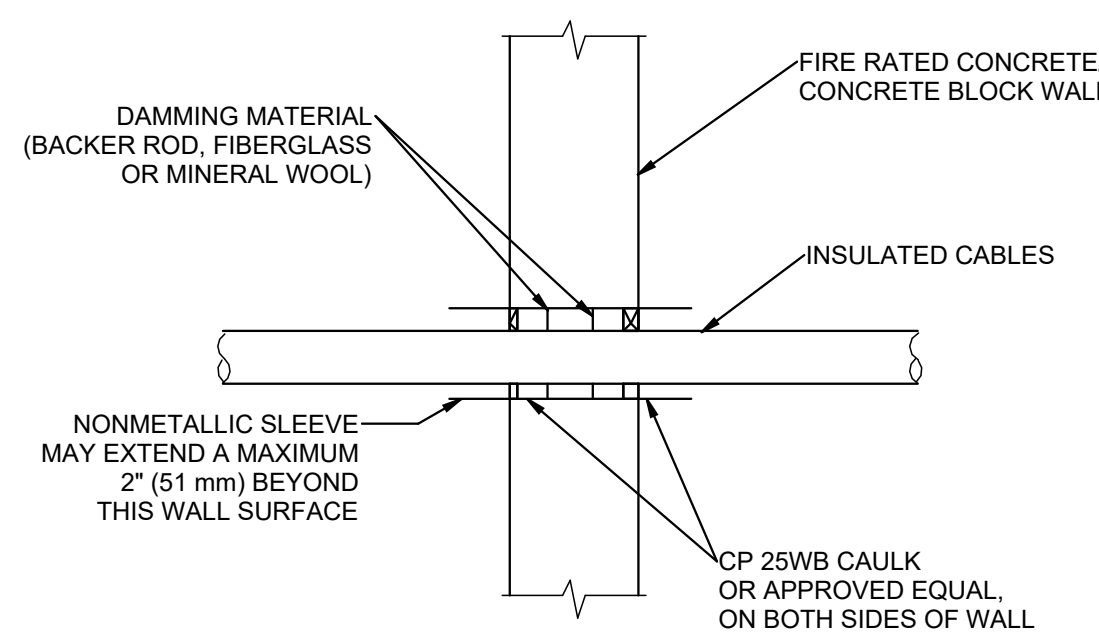
6 TYPICAL FIRE STOP FOR
CABLES/CONDUIT THROUGH
CONCRETE FLOORING
SCALE: NTS



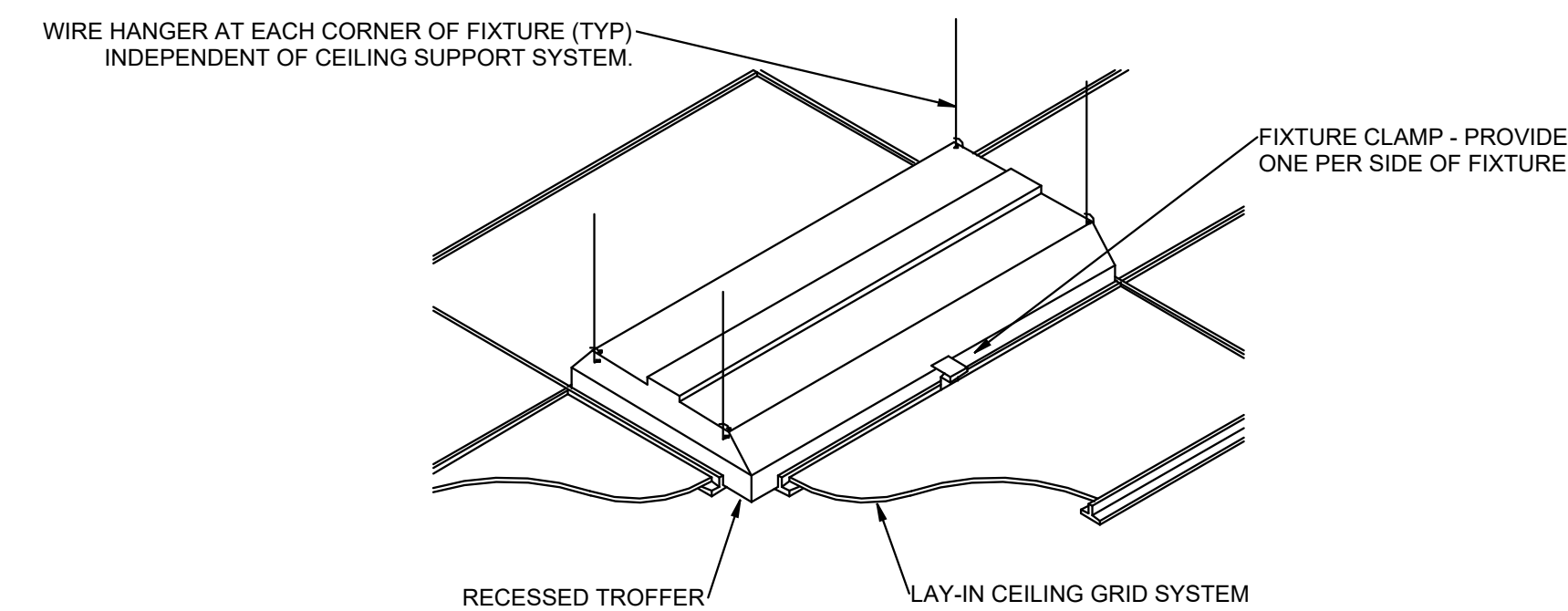
3 TYPICAL CONDUIT RACK DETAIL
SCALE: NTS



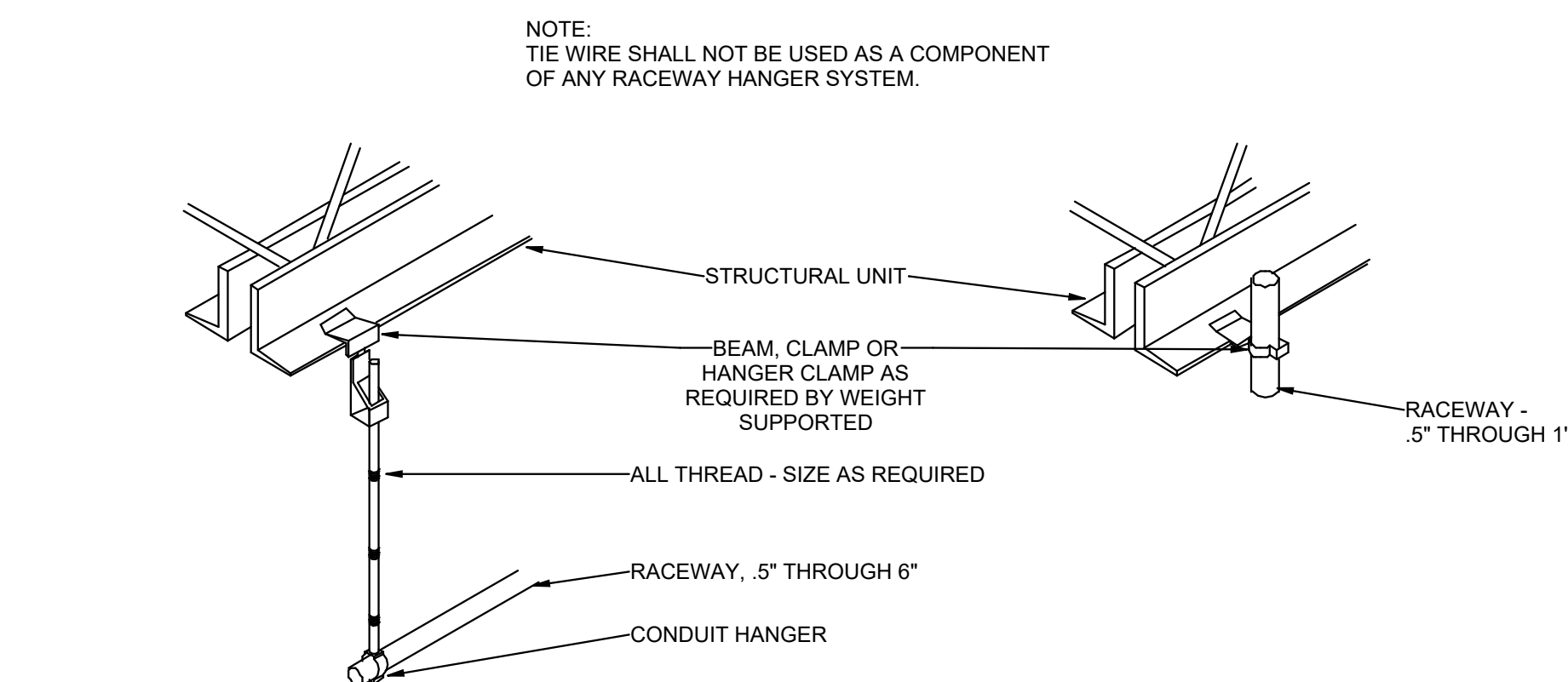
7 FIRE STOP FOR METAL
CONDUIT THROUGH
GYPSUM WALL BOARD
SCALE: NTS



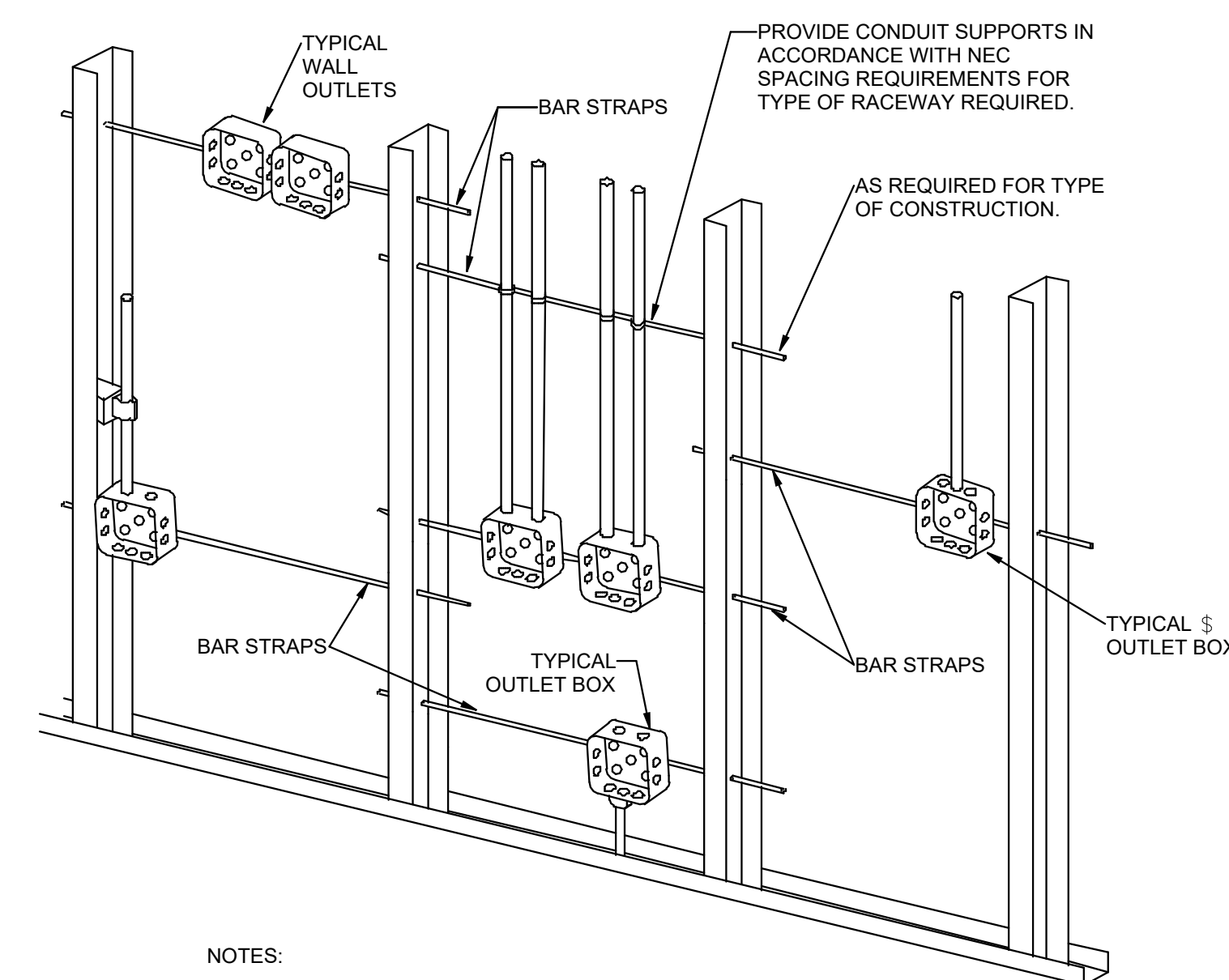
5 TYPICAL FIRE STOP FOR
CABLES/CONDUIT THROUGH
CONCRETE WALLS
SCALE: NTS



2 RECESSED FIXTURE MOUNTING DETAIL
SCALE: NTS

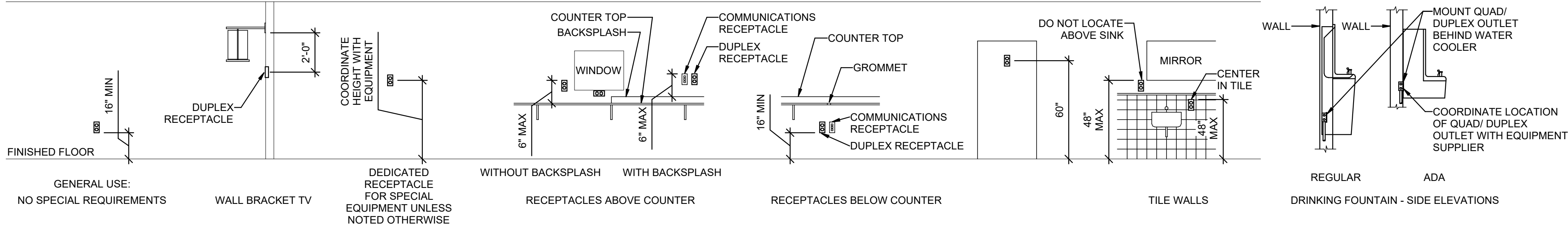


4 TYPICAL RACEWAY SUPPORT METHODS DETAIL
SCALE: NTS



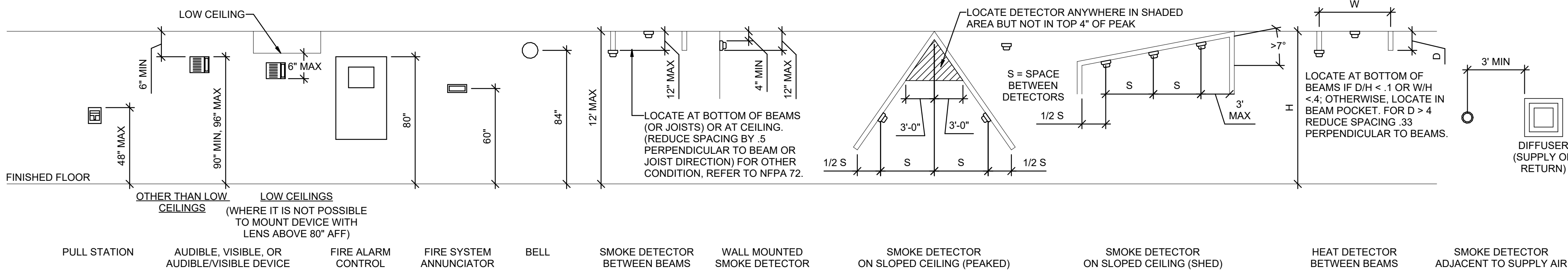
- NOTES:
1. TYPICAL FOR WOOD AND METAL STUD ROUGH-IN.
 2. PLASTER RINGS NOT SHOWN.
 3. LOCATE ALL OUTLET BOXES IN ACCORDANCE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS AND WITH ALL APPLICABLE SHOP DRAWINGS.
 4. IN ACCORDANCE WITH IBC 714.3.2 EXCEPTION 1, OUTLETS ON OPPOSITE SIDES OF WALLS OR PARTITIONS IN THE SAME STUD SPACE IN A RATED FIRE SEPARATION WALL MUST BE SEPARATED BY A MINIMUM OF 24" HORIZONTAL DISTANCE OR LISTED, SOUND AND FIRE RATED PUTTY PADS SHALL BE USED ON THE OUTLET BOXES.
 5. IN NON-RATED WALLS, OUTLETS ON OPPOSITE SIDES OF WALLS OR PARTITIONS MUST BE SEPARATED BY 16" FOR SOUND ATTENUATION.

1 TYPICAL ROUGH-IN REQUIREMENTS DETAIL
SCALE: NTS



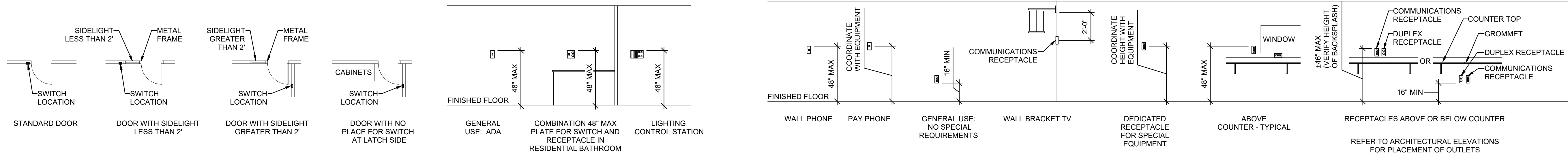
E2 RECEPTACLE MOUNTING DETAILS

SCALE: NTS



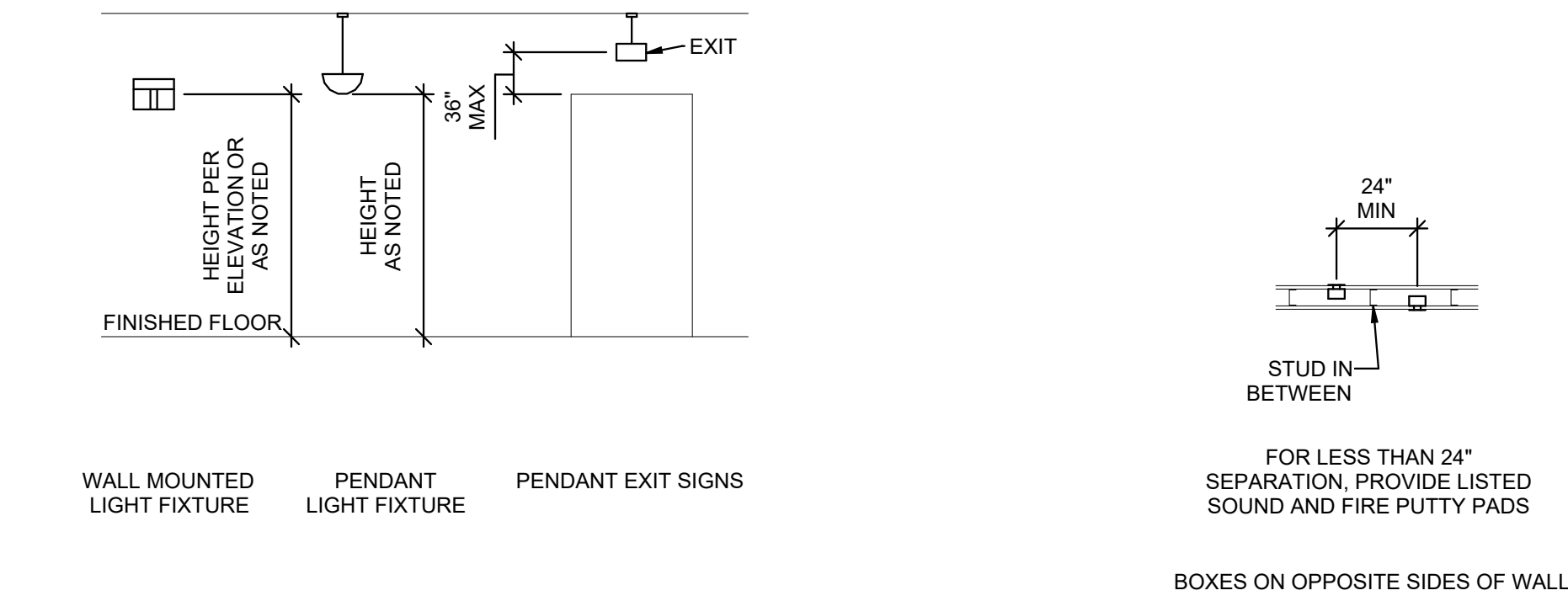
B2 FIRE ALARM MOUNTING DETAILS

SCALE: NTS



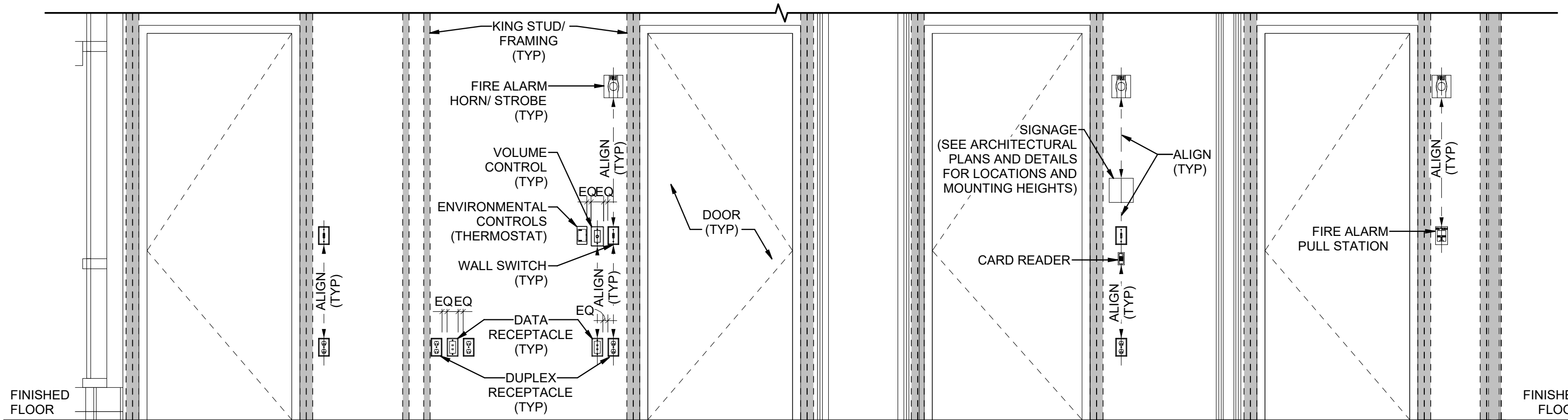
C2 SWITCH MOUNTING DETAILS

SCALE: NTS



C4 COMMUNICATIONS MOUNTING DETAILS

SCALE: NTS



B2 LIGHTING MOUNTING DETAILS

SCALE: NTS

B3 BOX MOUNTING DETAILS

SCALE: NTS

B4 TYPICAL WALL MOUNTED DEVICES ALIGNMENT DETAIL

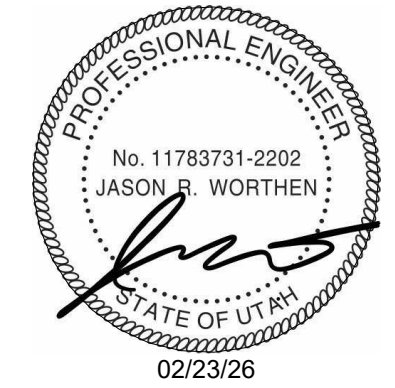
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GENERAL SHEET NOTES

- MOUNTING HEIGHTS OF ELECTRICAL AND ELECTRONIC EQUIPMENT IN THE FOLLOWING ORDER OF PRIORITY:
 - A - ELEVATIONS (ARCHITECTURAL, ELECTRICAL, MECHANICAL, ETC).
 - B - EQUIPMENT SHOP DRAWINGS.
 - C - FIELD INSTRUCTIONS.
- LOCATE RECEPTACLES SERVING THE SAME TYPE OF USE AT A UNIFORM HEIGHT UNLESS DIRECTED OTHERWISE.
- MECHANICAL, ELECTRICAL, AND COMMUNICATION ROOMS: COORDINATE LOCATION OF LIGHTING AND POWER RECEPTACLES WITH EQUIPMENT, PIPING, AND DUCTWORK. DO NOT INSTALL RECEPTACLES BEHIND EQUIPMENT OR WHERE OTHERWISE INACCESSIBLE. POSITION LIGHTING REGARDLESS OF WHERE SHOWN ON DRAWING TO PROVIDE PROPER ILLUMINATION.
- MOUNT RECEPTACLE BOXES FOR SWITCHES AND RECEPTACLES WITH LONG AXIS OF THE DEVICE VERTICAL UNLESS OTHERWISE INDICATED.
- SET BOXES WITH PLASTER RINGS FLUSH WITH FINISHED SURFACE.
- LOCATE BOX COVERS OR DEVICE PLATES SO THEY WILL NOT SPAN DIFFERENT TYPES OF BUILDING FINISHES EITHER VERTICALLY OR HORIZONTALLY.
- VERIFY ALL DOOR CONDITIONS ON ARCHITECTURAL DRAWINGS PRIOR TO INSTALLING SWITCHES.
- LOCATE WIRING DEVICES WHICH ARE ADJACENT AND ARE COMPATIBLE VOLTAGES IN ONE PLATE.
- WHERE DEVICES ARE LOCATED IN CLOSE PROXIMITY OF THE SAME VERTICAL PLANE, ALIGN DEVICES VERTICALLY PER THE TYPICAL WALL MOUNTED DEVICES ALIGNMENT DETAIL, UNLESS OTHERWISE INDICATED.



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Intermountain Health
Intermountain Life Flight
Life Flight Simulator

2284 I 40 N
Salt Lake City, UT 84116

NJRA Project # 25252.00
Bid Set Feb 13, 2025

TYPICAL
MOUNTING
DETAILS

EE701

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1 LEVEL 1 OVERALL POWER PLAN
SCALE: 1/8" = 1'-0"

(1) 4" CONDUIT SLEEVE
(3) 4" CONDUIT TO CHASEWAY ABOVE

"MCC-1"

"M"

(2) 4" CONDUIT

"MDP"

"TS"

"E"

"LE"

"LA1"

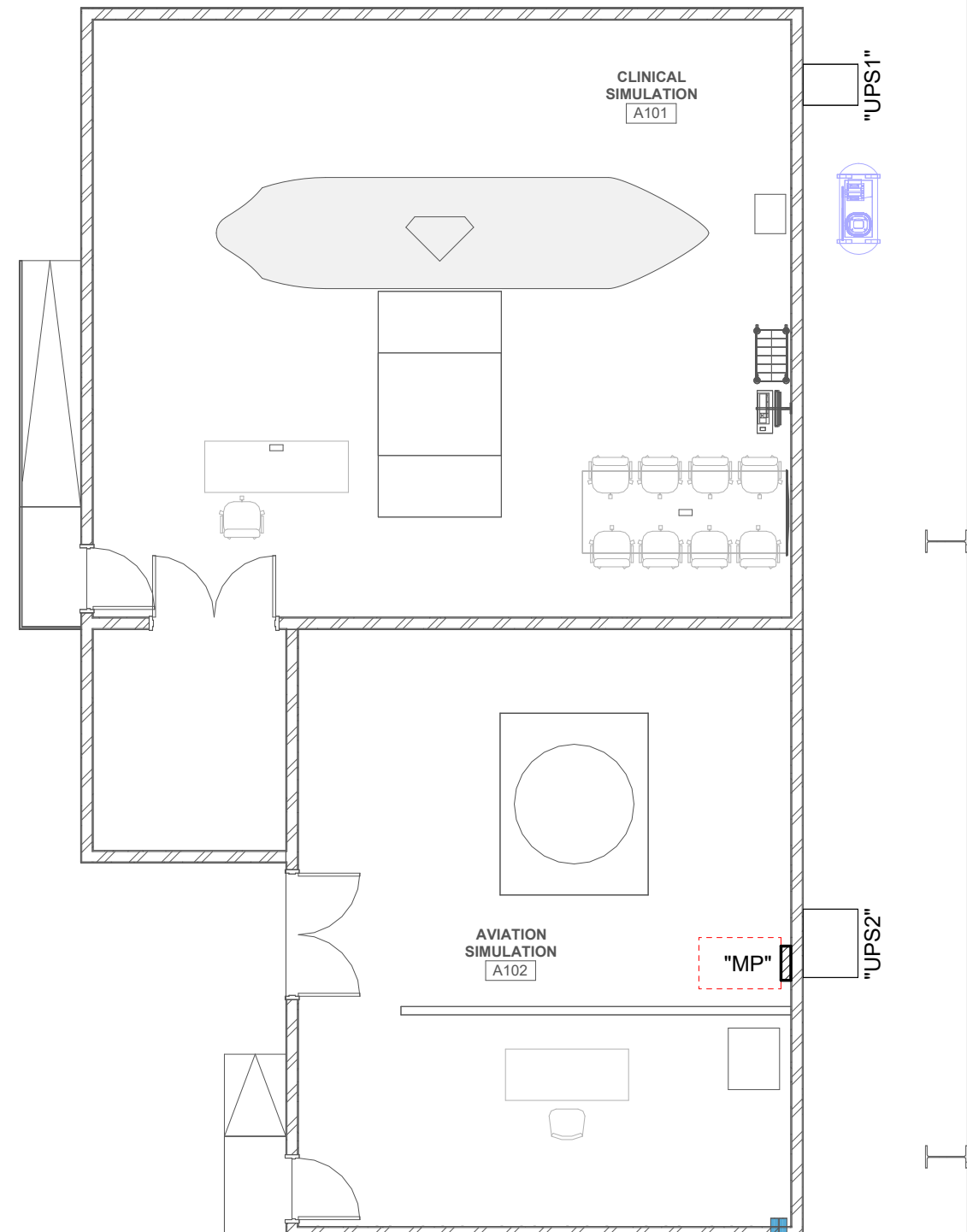
"A"

"LA"

"LB"

2

1



GENERAL SHEET NOTES

- 1 PROVIDE DEDICATED NEUTRALS FOR ALL BRANCH CIRCUITS.
- 2 PROVIDE NEW TYPED PANEL SCHEDULES FOR ALL PANELS AFFECTED BY THE PROJECT.
- 3 UNLESS OTHERWISE NOTED, CONTRACTOR SHALL PROVIDE ALL DISCONNECTS AND MAKE FINAL EQUIPMENT CONNECTIONS. CONTRACTOR SHALL COORDINATE WITH EQUIPMENT VENDORS AND ALL EQUIPMENT INSTALLATION REQUIREMENTS.

SHEET KEYNOTES

- 1 PROVIDE A NEW 20A/3P AND TWO NEW 20A/2P BREAKERS IN EXISTING SIEMENS PANEL LB.
- 2 PROVIDE TWO NEW 40A/3P BREAKERS IN EXISTING SIEMENS PANEL A.

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NJRA Project #

Bid Set

25252.00

Feb 13, 2025

LEVEL 1

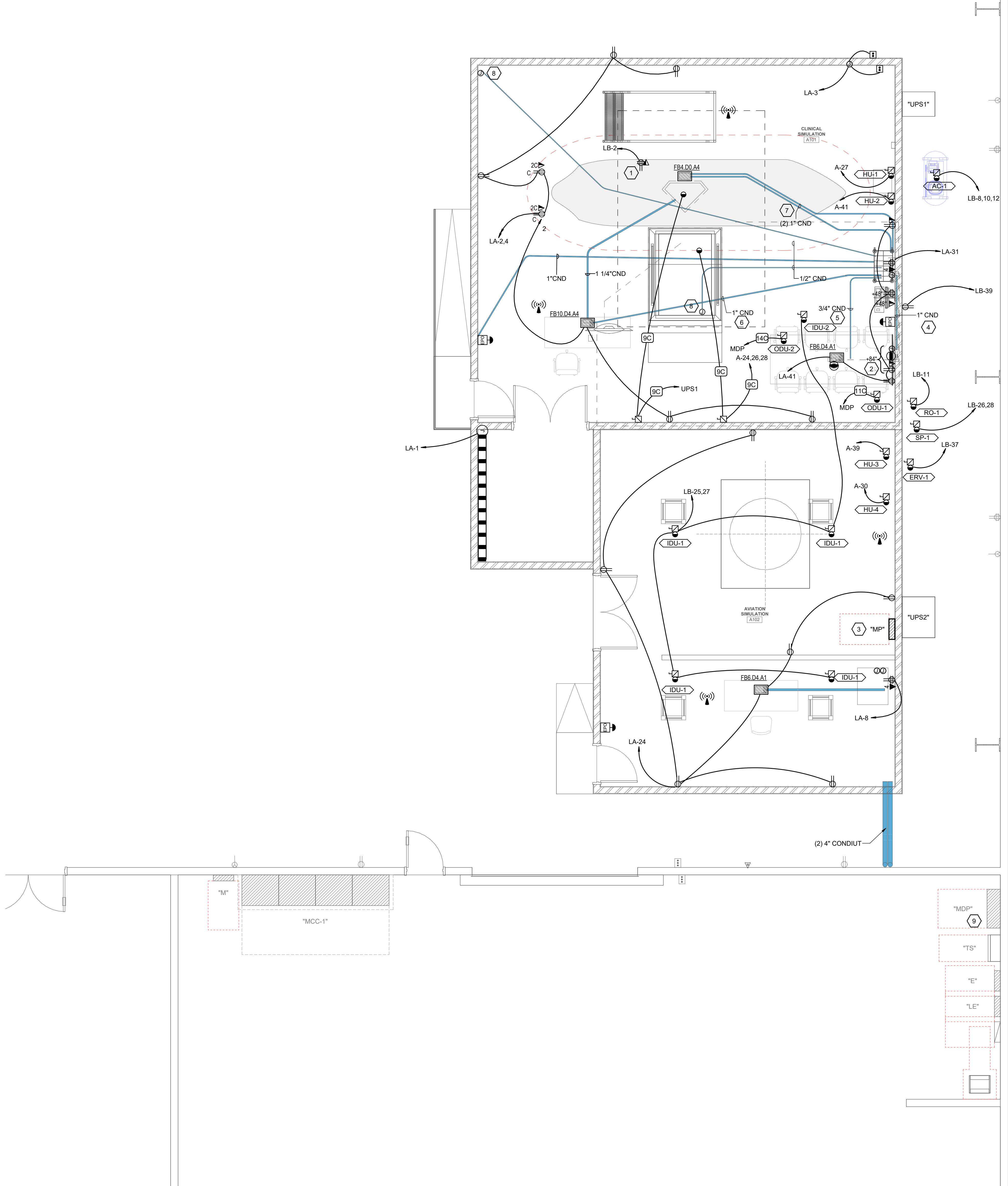
OVERALL

POWER PLAN

EP100

2284 1 60 N

Salt Lake City, UT 84116



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

GENERAL SHEET NOTES

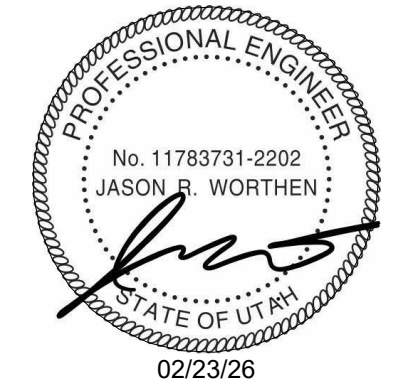
- 1 PROVIDE DEDICATED NEUTRALS FOR ALL BRANCH CIRCUITS.
- 2 PROVIDE NEW TYPED PANEL SCHEDULES FOR ALL PANELS AFFECTED BY THE PROJECT.
- 3 UNLESS OTHERWISE NOTED, CONTRACTOR SHALL PROVIDE ALL DISCONNECTS AND MAKE FINAL EQUIPMENT CONNECTIONS. CONTRACTOR SHALL COORDINATE WITH EQUIPMENT VENDORS AND ALL EQUIPMENT INSTALLATION REQUIREMENTS.

SHEET KEYNOTES

- 1 PROVIDE RECEPTACLES AND DATA NEAR BASE OF FUSELAGE. RUNNING POWER/DATA INTO THE FUSELAGE WILL NEED TO BE COORDINATED WITH OWNER. ALSO PROVIDE A SPARE 3/4" AND 1" CONDUIT STUBBED TO THE ACCESSIBLE CEILING FOR FUTURE POWER/DATA.
- 2 PROVIDE FSR PWB-100 RECESSED TV BACKBOX FOR POWER/DATA RECEPTACLES BEHIND TV.
- 3 PANEL MP WILL BE FURNISHED BY EQUIPMENT VENDOR CONTRACTOR TO CONNECT POWER TO PANEL. LOAD SIDE CONNECTIONS TO THE SIMULATION EQUIPMENT WILL BE INSTALLED BY THE VENDOR.
- 4 PROVIDE 1" CONDUIT FROM THE HEADEND RACK TO THE CONFERENCE TV LOCATION. COORDINATE WITH MARSHALL INDUSTRIES.
- 5 PROVIDE 3/4" CONDUIT FROM THE HEADEND RACK TO THE SPEAKER ABOVE THE CONFERENCE TABLE. COORDINATE WITH MARSHALL INDUSTRIES.
- 6 PROVIDE 1" CONDUIT FROM THE HEADEND RACK TO THE OPERATOR WORKSTATION. COORDINATE WITH MARSHALL INDUSTRIES.
- 7 PROVIDE TWO 1" CONDUITS FROM THE HEADEND RACK TO THE FUSELAGE. COORDINATE WITH MARSHALL INDUSTRIES.
- 8 PROVIDE OMORON DIN SAFETY SWITCH (DIN-22XX) OR EQUIVALENT. HEAD/ACTUATOR WILL NEED TO BE COORDINATED WITH THE EQUIPMENT/VENDOR/OWNER. PROVIDE 1/2" CONDUIT RAN TO MOOG HEADEND RACK AND CONNECT TO MOOG INPUTS. COORDINATE MOUNTING LOCATION AND WIRING WITH EQUIPMENT/VENDOR.
- 9 PROVIDE NEW 80A/3P, 70A/3P AND 50A/3P BREAKERS IN EXISTING SIEMENS MDP.



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LEVEL 1
POWER PLAN

EP101

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2 LEVEL 3 POWER PLAN
SCALE: 1/8" = 1'-0"



1 LEVEL 2 POWER PLAN
SCALE: 1/8" = 1'-0"



GENERAL SHEET NOTES

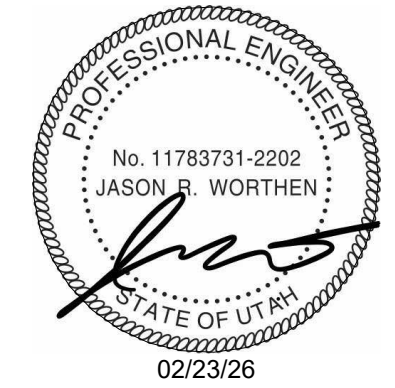
- 1 PROVIDE DEDICATED NEUTRALS FOR ALL BRANCH CIRCUITS.
- 2 PROVIDE NEW TYPED PANEL SCHEDULES FOR ALL PANELS AFFECTED BY THE PROJECT.
- 3 UNLESS OTHERWISE NOTED, CONTRACTOR SHALL PROVIDE ALL DISCONNECTS AND MAKE FINAL EQUIPMENT CONNECTIONS. CONTRACTOR SHALL COORDINATE WITH EQUIPMENT VENDORS AND ALL EQUIPMENT INSTALLATION REQUIREMENTS.

SHEET KEYNOTES

- 1 PROVIDE NEW RECEPTACLES IN EXISTING DATA CLOSET ON 3RD FLOOR. LOCATION WILL NEED TO BE COORDINATED WITH THE OWNER.



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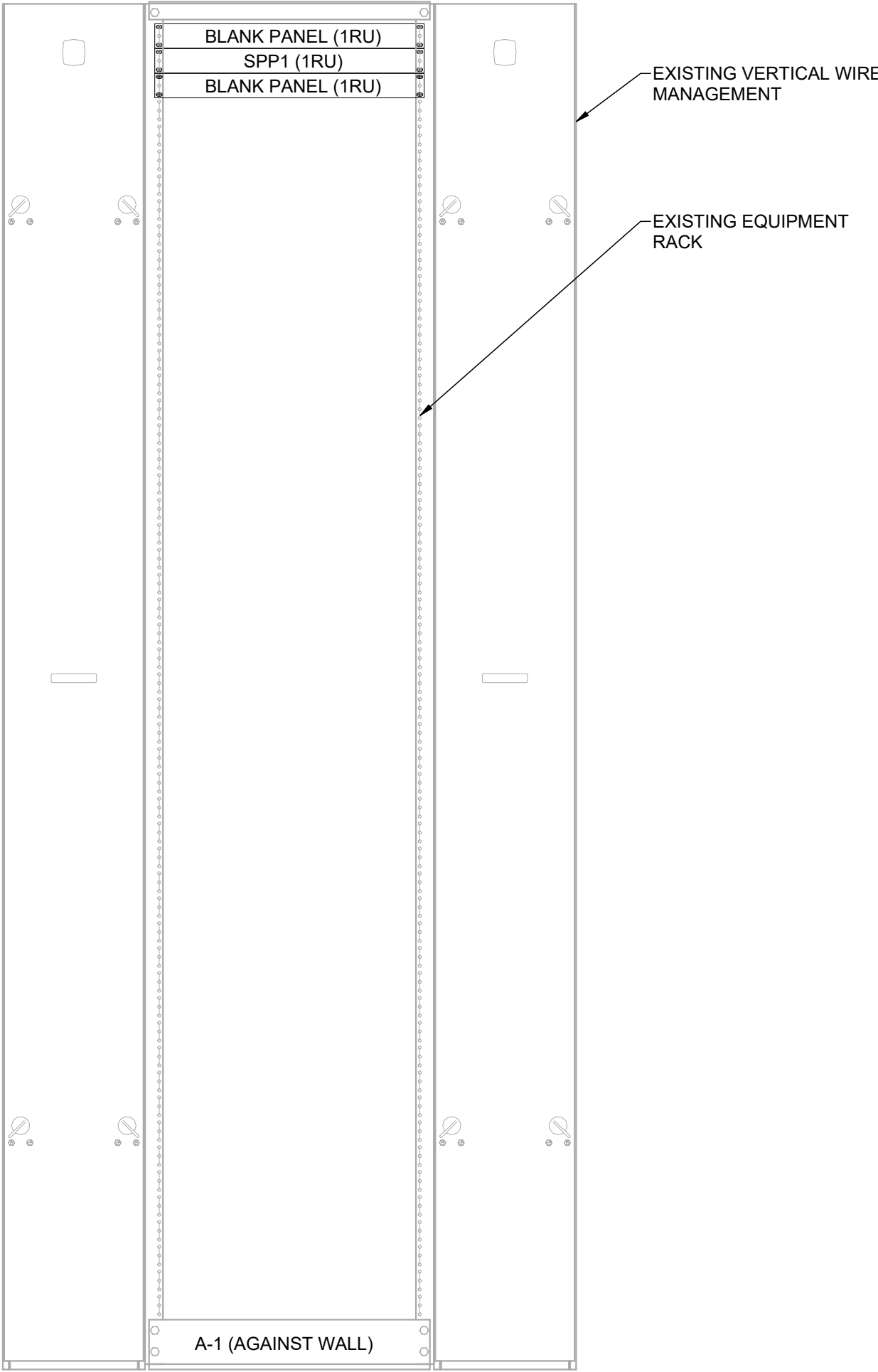
NJRA Project # 25252.00
Bid Set Feb 13, 2025

LEVEL 2
POWER PLAN

EP102

Autodesk Docs://250606 - Intermountain Flight Simulator/250606-Elec Central.rvt
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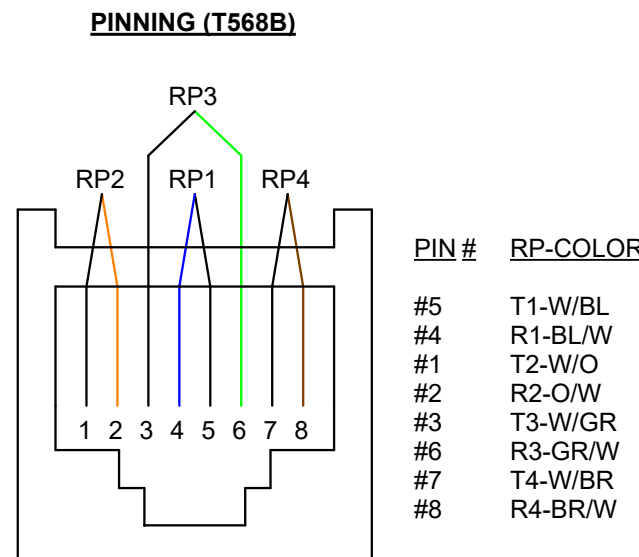
DATA DEVICE DROP SCHEDULE - LEVEL 2 TDR				
DATA DEVICE TYPE	DETAIL LOCATION	COMM ROOM LOCATION	TOTAL BY FLOOR	NUM. OF DROPS



1
TYPICAL EQUIPMENT RACK
ELEVATION DETAIL, EXISTING TDR
SCALE: NTS

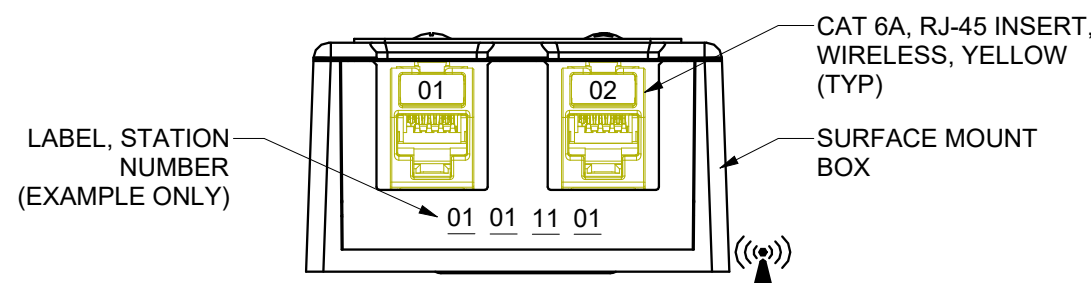
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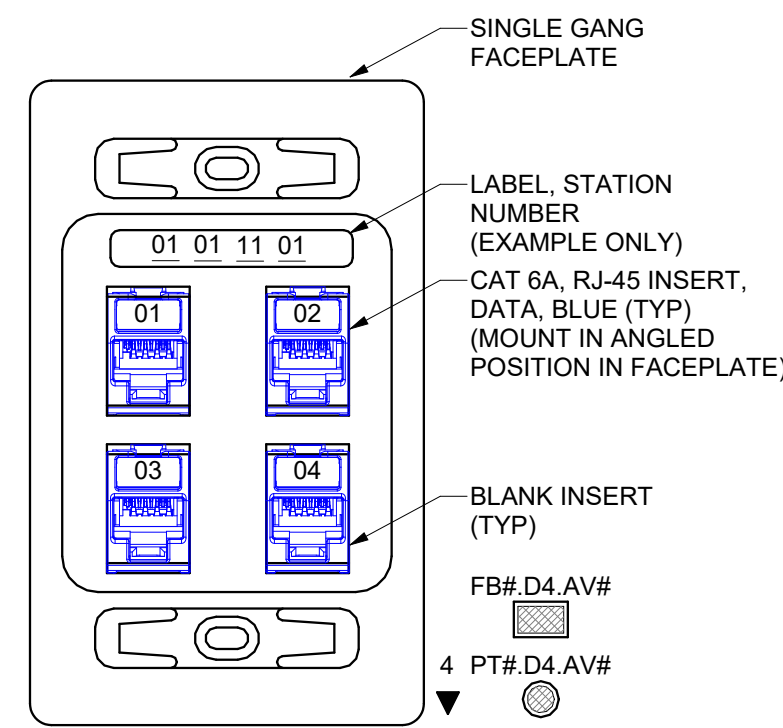
TYPICAL VOICE/DATA OUTLET PINNING DETAIL

4 SCALE: NTS



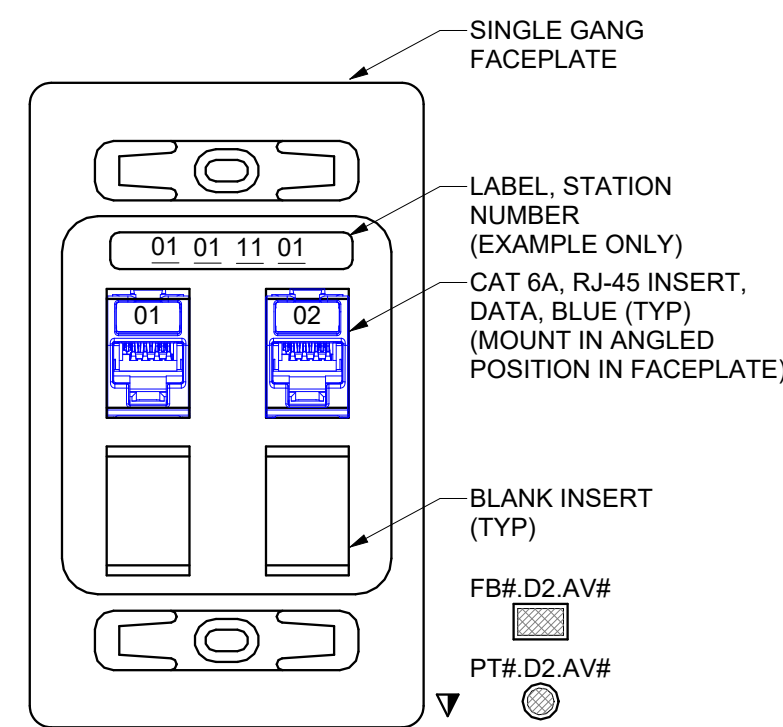
TYPICAL 2-PORT WIRELESS ACCESS POINT

3 SCALE: NTS



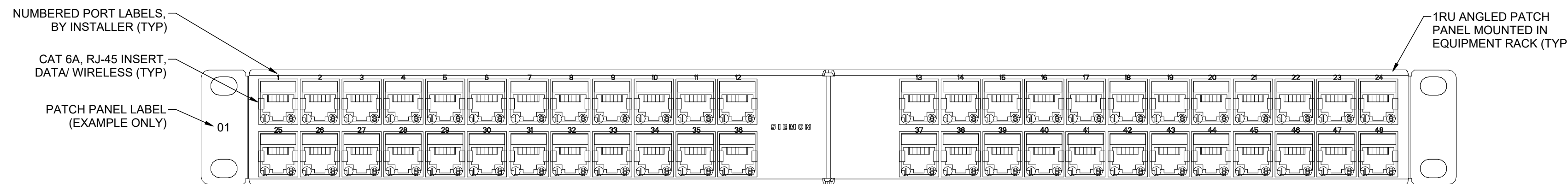
TYPICAL 4-PORT WALL DATA OUTLET

2 SCALE: NTS



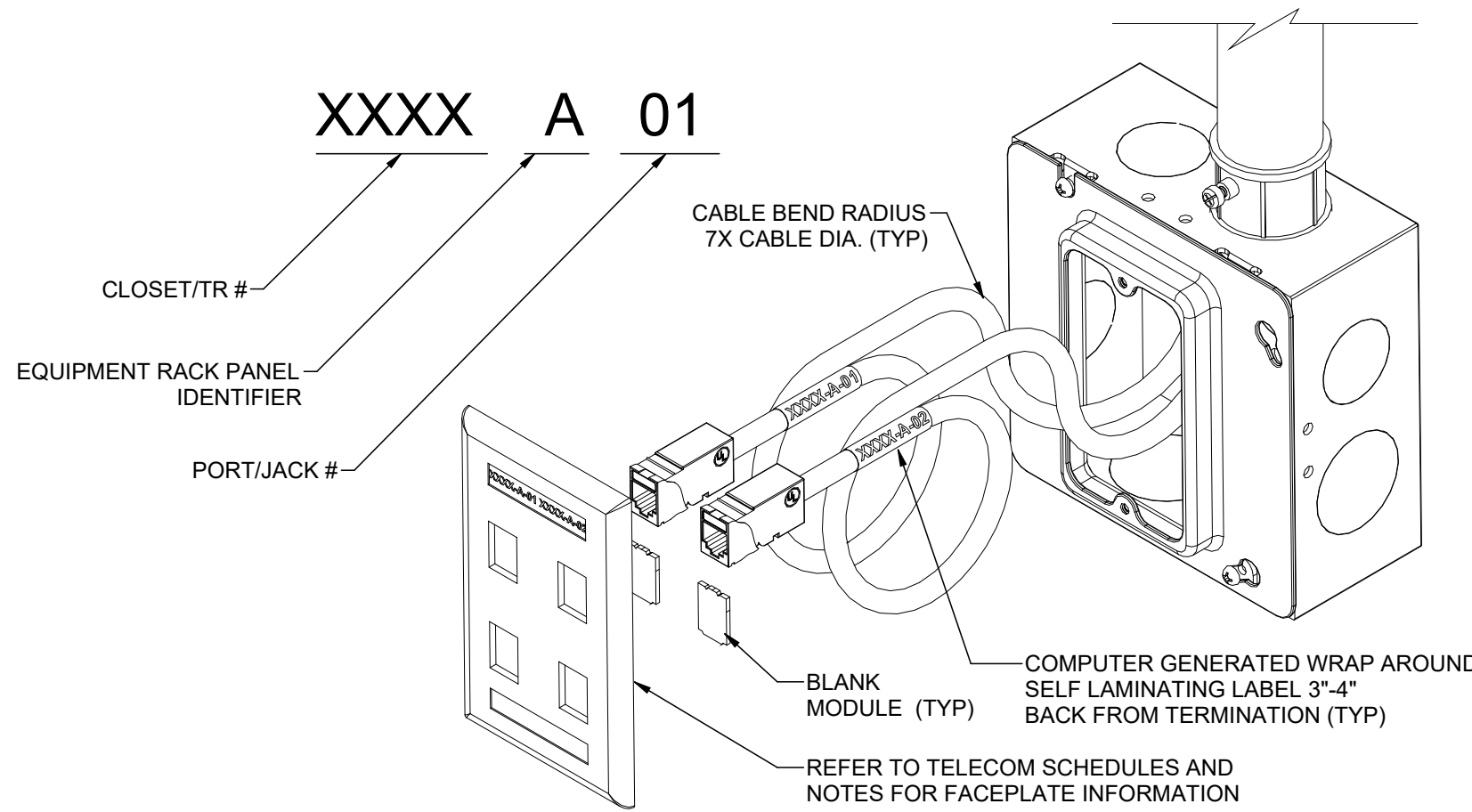
TYPICAL 2-PORT WALL DATA OUTLET

1 SCALE: NTS



STATION PATCH PANEL DETAIL (SPP1)

6 SCALE: NTS



TYPICAL CABLE IDENTIFICATION WRAP AROUND DETAIL

5 SCALE: NTS

CIRCUIT AMPACITY/VOLTAGE	CIRCUIT LENGTH	CONDUCTOR SIZE (PHASE, NEUTRAL AND GR)	CONDUIT SIZE
20A/120V	0' - 60'	#12 AWG	0.75" Ø
20A/120V	60' - 95'	#10 AWG	0.75" Ø
20A/120V	95' - 150'	#8 AWG	1" Ø
20A/120V	150' - 240'	#6 AWG	1.25" Ø
20A/277V	0' - 140'	#12 AWG	0.75" Ø
20A/277V	140' - 220'	#10 AWG	0.75" Ø
20A/277V	220' - 350'	#8 AWG	1" Ø
20A/277V	350' - 550'	#6 AWG	1.25" Ø

CIRCUIT AMPACITY/VOLTAGE	CIRCUIT LENGTH	CONDUCTOR SIZE (PHASE, NEUTRAL AND GR)	CONDUIT SIZE
20A/120V	0' - 60'	#12 AWG	0.75" Ø
20A/120V	60' - 95'	#10 AWG	0.75" Ø
20A/120V	95' - 150'	#8 AWG	1" Ø
20A/120V	150' - 240'	#6 AWG	1.25" Ø
20A/277V	0' - 140'	#12 AWG	0.75" Ø
20A/277V	140' - 220'	#10 AWG	0.75" Ø
20A/277V	220' - 350'	#8 AWG	1" Ø
20A/277V	350' - 550'	#6 AWG	1.25" Ø

1. WIRE SIZING IS BASED ON COPPER CONDUCTORS SUPPLYING A 20A, 120V CIRCUIT AT THE INDICATED VOLTAGE, ASSUMED TO BE 80% LOADED (16A), WITH MAXIMUM VOLTAGE DROP OF 3% AT THE LOAD.
2. DOWN-SIZED WIRE AT DEVICE/LOAD AS REQUIRED AND TERMINATE CONDUCTORS IN A SAFE AND CODE COMPLIANT MANNER.
3. CONDUIT SIZE IS BASED ON A MAXIMUM OF 3 CIRCUITS PER CONDUIT, EACH WITH A SEPARATE NEUTRAL CONDUCTOR.

1. WIRE SIZING IS BASED ON COPPER CONDUCTORS SUPPLYING A 20A, 120V CIRCUIT AT THE INDICATED VOLTAGE, ASSUMED TO BE 80% LOADED (16A), WITH MAXIMUM VOLTAGE DROP OF 3% AT THE LOAD.
2. DOWN-SIZED WIRE AT DEVICE/LOAD AS REQUIRED AND TERMINATE CONDUCTORS IN A SAFE AND CODE COMPLIANT MANNER.
3. CONDUIT SIZE IS BASED ON A MAXIMUM OF 3 CIRCUITS PER CONDUIT, EACH WITH A SEPARATE NEUTRAL CONDUCTOR.

2. REFER TO PLANS FOR CONSTRAINTS ON PHYSICAL DIMENSIONS AND CLEARANCE REQUIREMENTS OF EQUIPMENT. PROVIDE EQUIPMENT DIMENSIONS THAT FALL WITHIN THE CONSTRAINTS OF EACH SPECIFIC LOCATION.

- PROVIDE NEMA 3R ENCLOSURES FOR EQUIPMENT LOCATED OUTDOORS. REFER TO PLANS FOR EQUIPMENT LOCATIONS.
- REFER TO PLANS FOR CONSTRAINTS ON PHYSICAL DIMENSIONS AND CLEARANCE REQUIREMENTS OF EQUIPMENT. PROVIDE EQUIPMENT DIMENSIONS THAT FALL WITHIN THE CONSTRAINTS OF EACH SPECIFIC LOCATION.
- ALL EQUIPMENT SHALL BE CONSTRUCTED AND BRACED FOR THE SEISMIC CONDITIONS OF THE PROJECT. REFER TO ELECTRICAL SPECIFICATIONS FOR REQUIREMENTS.
- PROVIDE PERFORMANCE TESTING FOR GROUND-FALL PROTECTION SYSTEMS ON SITE WITH A WRITTEN RECORD OF THIS TEST SUBMITTED TO THE AUTHORITY HAVING JURISDICTION PER NEC 200.9(C).

- PROVIDE NEW BREAKER IN EXISTING SIEMENS PANEL



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— SCHEDULE NUMBER
— SUBSCRIPT (NOTE 5)

(E.G., 5C)_{IG}

SCHEDULE NUMBER

(E.G.) 5C

CONDUCTORS SHOWN ARE SHOWED FOR EACH CONDUIT WITH MODIFICATIONS AS NOTED IN NOTE 5. ALL CONDUCTORS SHOWN ARE THWN UNLESS OTHERWISE NOTED.

PROVIDE EQUIPMENT GROUND CONDUCTORS PER TABLE 250-122 WHEN CONDUIT BREAKERS ARE SIZED GREATER THAN AMPERE RATING SHOWN IN TABLE.

PROVIDE #10 NEUTRALS FOR MULTIWIRE BRANCH CIRCUITS SERVING COMPUTERS.

GROUND (G) CONDUCTOR MAY BE DELETED ON SERVICE ENTRANCE CONDUCTORS.

SYMBOL: SUBSTITUTION:

"2N": INCLUDE TWO NEUTRAL CONDUCTORS SIZED AS SCHEDULED FOR PHASE AND NEUTRAL CONDUCTORS WHERE THE CONDUCTOR IS #10 OR LARGER. INCLUDE A SINGLE 200% RATED NEUTRAL THAT IS TWICE THE AMPACITY OF THE SCHEDULED PHASE AND NEUTRAL CONDUCTOR WHERE THE CONDUCTOR IS BELOW #10 IN SIZE.

"C": PROVIDE CIRCUIT INTEGRITY CABLE. TYPE TWO-HOUR FIRE RESISTIVE CABLE IN CONDUIT OR PROVIDE FIBER ENCASED IN CONCRETE.

"FG" FULL SIZE GROUND, SIZE EQUIPMENT GROUNDING CONDUCTOR TO BE SAME SIZE AS THE PHASE CONDUCTORS.

"HFN": NEUTRAL CURRENTS EXIST DUE TO HIGH HARMONIC, "NON/INER" LOADS. CURRENT CARRYING CONDUCTORS DERATED ACCORDINGLY. PROVIDE THE IGHM SIZE FOR THE EQUIPMENT GROUNDING CONDUCTOR.

"I": INCLUDE IG (INSULATED/ISOLATED GROUND CONDUCTOR) SCHEDULED ALONG WITH THE GROUND OF EQUIPMENT GROUND CONDUCTION.

"MC": PROVIDE FEEDER IN METAL-CABLE TYPE MC IN PLACE OF SINGLE CONDUCTORS IN CONDUIT.

"SE": SUBSTITUTE "SE" CONDUCTOR FOR "G" CONDUCTOR SHOWN, WHICH IS SIZED FOR THE GROUNDING OF THE SECONDARY OF THE SEPARATELY DERIVED SYSTEM.

"SER": PROVIDE SERVICE-ENTRANCE CABLE, TYPE SE OR SER IN PLACE OF SINGLE CONDUCTORS IN CONDUIT.

RACEWAY ONLY. CONDUCTORS PROVIDED BY UTILITY.

- CONDUCTORS SHOWN ARE SHOWED FOR EACH CONDUIT WITH MODIFICATIONS AS NOTED IN NOTE 5. ALL CONDUCTORS SHOWN ARE THWN UNLESS OTHERWISE NOTED.
- PROVIDE EQUIPMENT GROUND CONDUCTORS PER TABLE 250-122 WHEN CONDUIT BREAKERS ARE SIZED GREATER THAN AMPERE RATING SHOWN IN TABLE.
- PROVIDE #10 NEUTRALS FOR MULTIWIRE BRANCH CIRCUITS SERVING COMPUTERS.
- GROUND (G) CONDUCTOR MAY BE DELETED ON SERVICE ENTRANCE CONDUCTORS.
- SYMBOL: S/S: SUBSTITUTED
- "2N": INCLUDE TWO NEUTRAL CONDUCTORS SIZED AS SCHEDULED FOR PHASE AND NEUTRAL CONDUCTORS WHERE THE CONDUCTOR IS #10 OR LARGER. INCLUDE A SINGLE 200% RATED NEUTRAL THAT IS TWICE THE AMPACITY OF THE SCHEDULED PHASE AND NEUTRAL CONDUCTOR WHERE THE CONDUCTOR IS BELOW #10 IN SIZE.
- "C": PROVIDE CIRCUIT INTEGRITY CABLE. TYPE TWO-HOUR FIRE RESISTIVE CABLE IN CONDUIT OR PROVIDE FIBER ENCASED IN CONCRETE.
- "FG": FULL SIZE GROUND, SIZE EQUIPMENT GROUNDING CONDUCTOR TO BE SAME SIZE AS THE PHASE CONDUCTORS.
- "Hf": NEUTRAL CURRENTS EXIST DUE TO HIGH HARMONIC, "NONLINEAR" LOADS. CURRENT CARRYING CONDUCTORS DERATED ACCORDINGLY. PROVIDE THE 100% SIZE FOR THE EQUIPMENT GROUNDING CONDUCTOR.
- "I": INCLUDE IG (INSULATED/ISOLATED GROUND CONDUCTOR) SCHEDULED ALONG WITH THE GROUND OF EQUIPMENT GROUND CONDUCTOR.
- "MC": PROVIDE FEEDER IN METAL-CLAD CABLE, TYPE MC IN PLACE OF SINGLE CONDUCTORS IN CONDUIT.
- "SE": SUBSTITUTE "SE" CONDUCTOR FOR "G" CONDUCTOR SHOWN, WHICH IS SIZED FOR THE GROUNDING OF THE SECONDARY OF THE SEPARATELY DERIVED SYSTEM.
- "SER": PROVIDE SERVICE-ENTRANCE CABLE, TYPE SE OR SER IN PLACE OF SINGLE CONDUCTORS IN CONDUIT.
- RACEWAY ONLY. CONDUCTORS PROVIDED BY UTILITY.

SYM	AMP	HH AMPS	CONDUIT		CONDUCTOR (NOTE 1)		IG/HH	SE	NOTES
			SIZE	QTY	SIZE	QTY			
1C	20	-	0.75	2	12	12	12	8	2
2C	20	-	0.75	3	12	12	12	8	2
3C	20	24	0.75	2	12	12	10	8	2
4C	30	-	0.75	2	10	10	10	8	2
5C	30	-	0.75	3	10	10	10	8	2
6C	30	32	0.75	4	10	10	10	8	2
7C	40	-	1	2	8	10	8	6	2
8C	40	-	1	1	3	10	8	8	2
9C	40	44	1	4	8	10	8	6	2
10C	55	-	1	2	6	10	8	4	2
11C	55	-	1	3	6	10	8	4	2
12C	55	60	1.25	4	6	10	8	4	2
13C	70	-	1	2	4	8	4	2	2
14C	70	-	1.25	3	4	8	4	2	2
15C	70	76	1.25	4	4	8	4	2	2
16C	85	-	1.25	2	3	8	3	2	2
17C	85	-	1.25	3	3	8	3	2	2
18C	85	92	1.25	4	3	8	3	2	2
19C	95	-	1.25	3	2	8	2	2	2
20C	95	104	1.5	4	2	8	2	2	2
21C	120	-	1.5	3	1	6	2	2	2
22C	130	116	1.5	4	1	6	2	2	2
23C	150	-	2	3	1/0	6	2	1/0	2
24C	150	136	2	4	1/0	6	2	1/0	2
28C	200	180	2.5	3	3/0	3	2	2/0	2
29C	230	-	2.5	3	4/0	4	2	2/0	2
30C	230	208	2.5	4	4/0	4	2	2/0	2
33C	340	280	3	4	350	3	1/0	3/0	2
35C	380	-	3.5	3	3/0	3	3/0	3/0	2
37C	400	-	2 EA 2	3	3/0	3	3/0	3/0	2
38C	400	360	2 EA 2.5	4	3/0	3	3/0	3/0	2
42C	620	560	2 EA 3	4	350	1/0	4/0	3/0	2
52C	1200	1120	4 EA 3	4	350	1/0	4/0	3/0	2
53C	5275	-	4 EA 3	4	4/0	4/0	4/0	4/0	4

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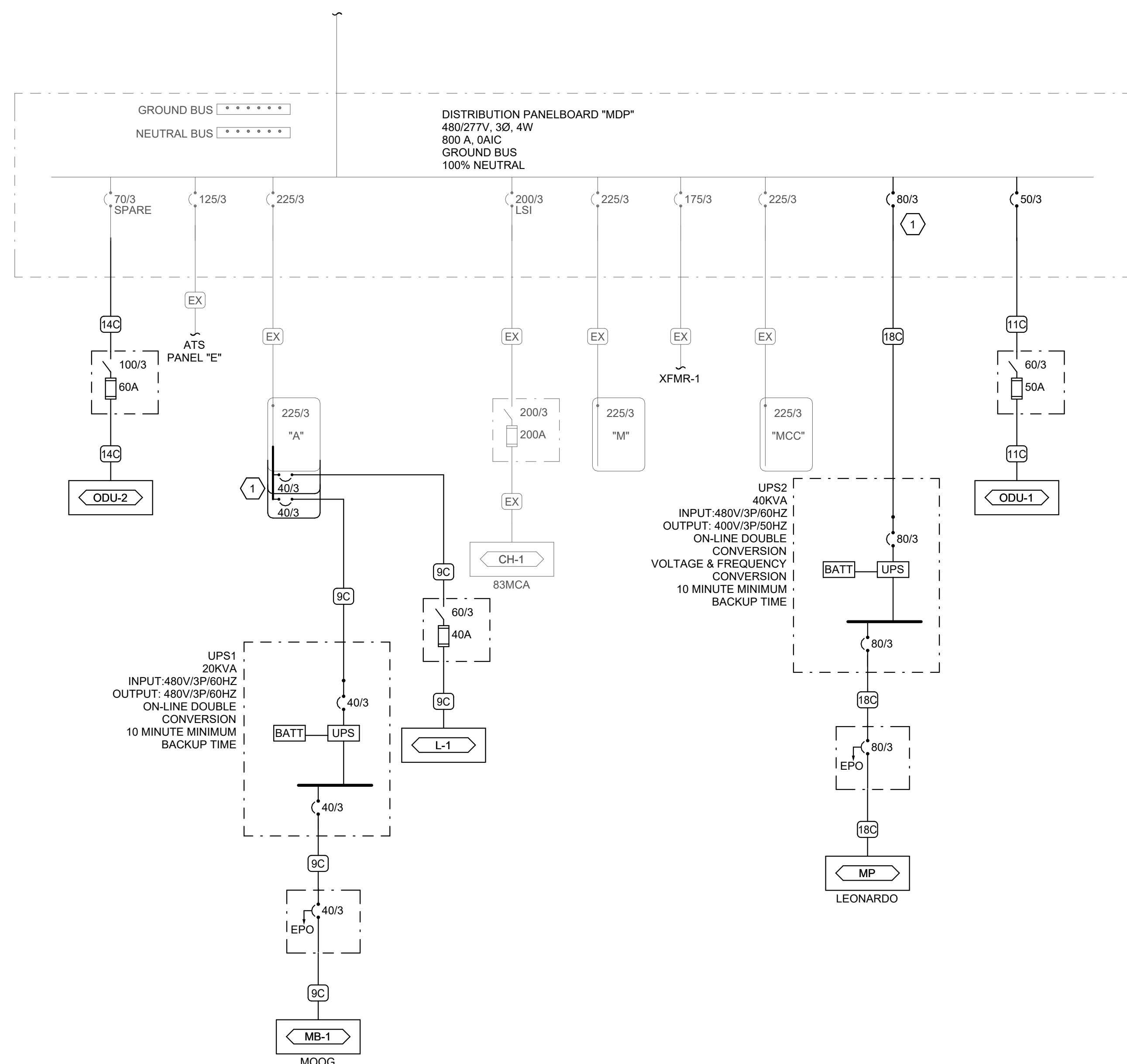
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Feb 13, 2025

ONE-LINE DIAGRAM

EP601



A1 ONE-LINE DIAGRAM - NORMAL
SCALE: NTS

SCALE: NTS

USE			CONNECTIONS			COVER							
CFG CONCRETE FLOOR, ON GRADE			C1 RECESSED CABLE CONNECTIONS BELOW FLOOR WITH HINGED LID FOR ACCESS THAT CAN BE CLOSED WHILE IN USE.			CV1 FLANGED WITH CARPET INSERT FOR CARPET AREAS, FLANGELESS FLUSH GRAY BRUSHED ALUMINUM LID							
			NO. 1 2			FINISH AL ALUMINUM							
ID	DESCRIPTION	SIZE (NOMINAL)	DUPLICATE	FURNITURE	DATA CABLES	A/V GANGS	SPARE	USE	CONNECTION	COVER	FINISH	MANUFACTURER (CATALOG SERIES)	NOTES
F84.D0.A4	4 GANG A/V FLOORBOX	LENGTH: 14" WIDTH: 12" DEPTH: 4"	4	1	1	0	0	CFG	C1	CV1	AL	WIREMOLD (RFB4R30G) HUBBELL (CFB4G33CRE)	
F86.D4.A1	6 GANG POWER/DATA & A/V FLOORBOX	LENGTH: 12" WIDTH: 10" DEPTH: 6"	4	4	1	1	0	CFG	C1	CV1	AL	WIREMOLD (RFB6R30G) HUBBELL (CFB4G55CRE) FSR (FL-500)	
F810.D4.A4	10 GANG POWER/DATA/A/V FLOORBOX	LENGTH: 12" WIDTH: 10" DEPTH: 6"	4	4	1	4	1	CFG	C1	CV1	AL	WIREMOLD (RFB4TOR55G) HUBBELL (CFB10G55CRE) FSR (FL-600)	

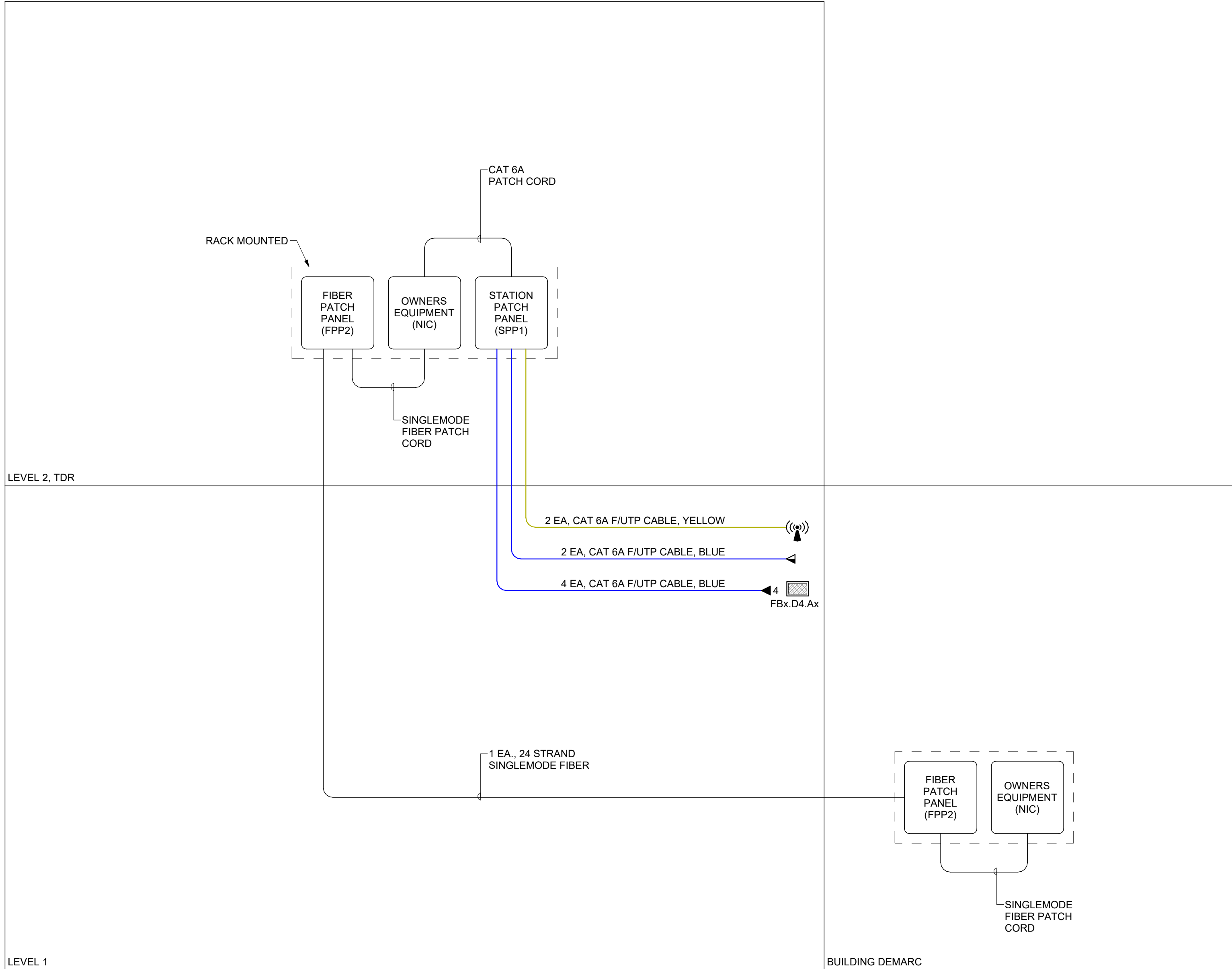
E - DIVISION 26 Q - FURNISHED WITH EQUIPMENT, INSTALLED BY DIV 26			1. PROVIDE MANUAL STARTER WITH THERMAL OVERLOAD AND RELAY FOR ATC/BAS CONTROL. 2. PROVIDE FUSED DISCONNECT ELEVATOR POWER MODULE WITH SHUNT TRIP. 3. INDOOR UNITS FED FROM OUTDOOR UNIT. PROVIDE DISCONNECTS FOR BOTH.						1. LOCATE ELECTRICAL EQUIPMENT IN ACCESSIBLE LOCATION, SUCH THAT IT IS WITHIN SIGHT OF THE EQUIPMENT IT IS SERVING, AND COMPLIES WITH N.E.C. REQUIRED CLEARANCES. 2. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE AND SIZE FEEDER, STARTER, DISCONNECT AND OVERCURRENT PROTECTION IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS OF ACTUAL EQUIPMENT SUPPLIED. 3. ELECTRICAL CONTRACTOR SHALL REVIEW OTHER DIVISION DRAWINGS FOR ANY ADDITIONAL REQUIREMENTS PRIOR TO BID. 4. ELECTRICAL CONTRACTOR SHALL REVIEW OTHER DIVISION SUBMITTALS FOR ANY EQUIPMENT REQUIRING CONNECTION BY ELECTRICAL CONTRACTOR AND COORDINATE ALL REQUIREMENTS PRIOR TO ROUGH-IN.									
LABEL	QTY	DESCRIPTION	LOAD DATA						OCDP		DISCONNECT		MOTOR CONTROLLER			NEMA ENCLOSURE RATING	NOTES	
			HP	KW	MCA	FLA	V	PH	WIRE AND CONDUIT SIZE	DEVICE	FED FROM	PROVIDED BY	DEVICE	PROVIDED BY	DEVICE			SIZES
AC-1	1	AIR COMPRESSOR	2	-	-	15	208	3	2 #12, #12 GR 0.75" CND	20/3 CB		E	30A/3P FRS-15	Q	-	-	-	
ERV-1	1	ENERGY RECOVERY VENTILATOR	-	-	15	15	120	1	2 #12, #12 GR 0.75" CND	20/1 CB		E	30A/1P FRS-15	Q	-	-	-	
HU-1	1	HUMIDIFIER	-	-	-	13	277	1	2 #12, #12 GR 0.75" CND	20/1 CB		E	30A/1P FRS-20	Q	-	-	-	
HU-2	1	HUMIDIFIER	-	-	-	13	277	1	2 #12, #12 GR 0.75" CND	20/1 CB		E	30A/1P FRS-20	Q	-	-	-	
HU-3	1	HUMIDIFIER	-	-	-	7.2	277	1	2 #12, #12 GR 0.75" CND	20/1 CB		E	30A/1P FRS-20	Q	-	-	-	
HU-4	1	HUMIDIFIER	-	-	-	7.2	277	1	2 #12, #12 GR 0.75" CND	20/1 CB		E	30A/1P FRS-20	Q	-	-	-	
IDU-1	4	INDOOR UNIT	-	-	-	2	208	1	2 #12, #12 GR 0.75" CND	20/2 CB		E	30A/2P FRS-10	Q	-	-	-	
IDU-2	1	INDOOR UNIT	-	-	-	2	208	1	2 #12, #12 GR 0.75" CND	20/2 CB		E	30A/2P FRS-10	Q	-	-	-	
ODU-1	1	OUTDOOR UNIT	-	-	30	24	480	3	3 #6, #10 GR 1" CND	50/3 CB		E	60A/3P FRS-50	Q	-	-	-	
ODU-2	1	OUTDOOR UNIT	-	-	38	31	480	3	3 #4, #8 GR 1.25" CND	70/3 CB		E	100A/3P FRS-60	Q	-	-	-	
RO-1	1	REVERSE OSMOSIS	-	-	20	16	120	1	2 #12, #12 GR 0.75" CND	20/1 CB		E	30A/1P FRS-15	-	-	-	-	
SP-1	1	SUMP PUMP	1/2	-	-	5	208	1	2 #12, #12 GR 0.75" CND	20/2 CB		E	30A/2P FRS-10	Q	-	-	-	



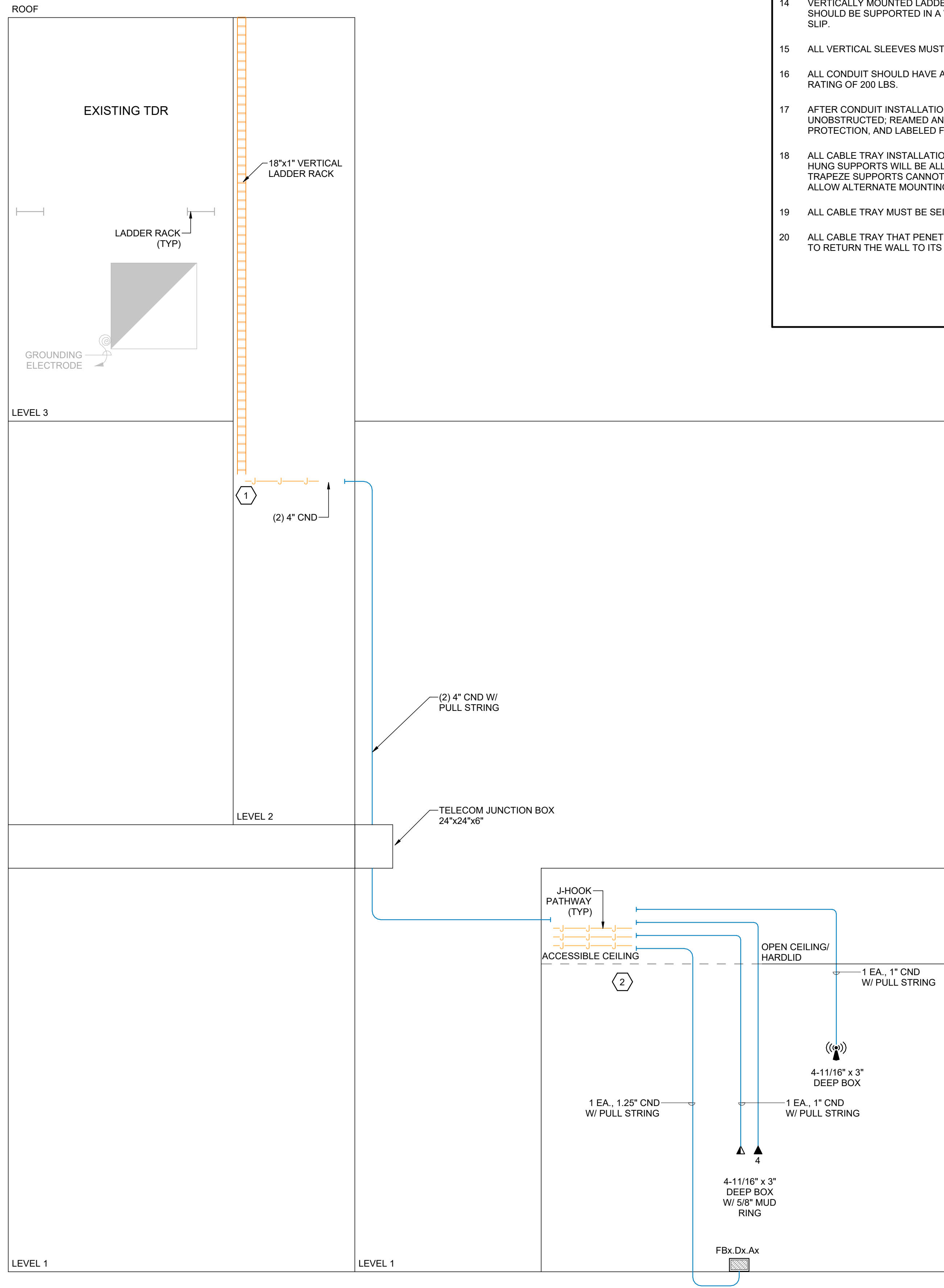
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ELECTRICAL
EQUIPMENT
AND
FLOORBOX
SCHEDULES
EP602

2 TELECOM CABLE RISER DIAGRAM
SCALE: NTS



1 TELECOM CONDUIT RISER DIAGRAM
SCALE: NTS



SHEET KEYNOTES

- 1 CONTRACTOR TO PROVIDE SLEEVES THROUGH ALL WALLS FOR CABLE PATHWAYS. ALL FIRE-RATED WALLS REQUIRE A FIRE-RATED SLEEVE. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION. ALL SMOKE/ NON-RATED WALLS REQUIRE A CONDUIT SLEEVE WITH BUSHINGS AND ARE REQUIRED TO BE SEALED WITH FIRE-RATED CAULK AND PUTTY. CONTRACTOR TO DETERMINE FINAL NUMBER OF SLEEVES FOR PENETRATIONS THROUGH WALLS.
- 2 CONTRACTOR TO STUB CONDUIT TO NEAREST ACCESSIBLE J-HOOK PATHWAY. MAXIMUM SPACING OF J-HOOKS TO BE 48" ON-CENTER.

GENERAL SHEET NOTES

- 1 PROVIDE PROTECTIVE BUSHING ON THE END OF ALL CONDUIT RUNS.
- 2 IN LOCATIONS WHERE CONDUIT IS STUBBED INTO THE CEILING SPACE, THE USE OF J-HOOKS IS REQUIRED TO CARRY THE CABLE BACK TO CABLE TRAY. MAXIMUM SPACING OF J-HOOKS IS 60". ENSURE NO MORE THAN 6" OF SAG AT THE LOWEST POINT OF THE CABLE. IF SAG IS GREATER THAN 6" ADD ADDITIONAL J-HOOKS FOR SUPPORT.
- 3 A SINGLE BEND CANNOT BE GREATER THAN 90 DEGREES.
- 4 NO MORE THAN 180 DEGREE IN BENDS IS ALLOWED WITH PROVIDING AN ACCESSIBLE PULL BOX. PULL BOX MUST BE IN AN ACCESSIBLE CEILING SPACE FOR ONGOING SUPPORT AND MAINTENANCE.
- 5 A SINGLE CONDUIT FOR HORIZONTAL CABLE CANNOT RUN MORE THAN 100' CONTINUOUSLY WITHOUT A PULL BOX OR AN ACCESSIBLE PULL POINT.
- 6 TELECOMMUNICATIONS CONDUIT SHOULD NOT RUN OVER OR ADJACENT TO BOILERS, INCINERATORS, HOT WATER LINES, OR STEAM LINES.
- 7 ALL CONDUIT MUST BE SEALED PROPERLY AFTER CABLE INSTALLATION TO ENSURE ANY RATED WALL ASSEMBLIES ARE RETURNED TO THE ORIGINAL WALL RATING.
- 8 TELECOMMUNICATIONS WORK AREA OUTLET SHOULD BE LOCATED WITHIN 3' OF AN ELECTRICAL OUTLET AND INSTALLED AT THE SAME ELEVATION.
- 9 THE DAISY CHAINING OF TELECOMMUNICATIONS BOXES IS NOT ALLOWED. ALL CONDUIT RUNS MUST BE DEDICATED TO ONE OUTLET LOCATION.
- 10 ALL CONDUITS INSTALLED FOR THE USE OF BACKBONE CABLE MUST USE LONG SWEEPS.
- 11 VERTICAL SLEEVES MUST EXTEND A MINIMUM OF 3' ABOVE THE FINISHED FLOOR BUT NO MORE THAN 8" ABOVE THE FINISHED FLOOR.
- 12 VERTICAL SLEEVES MUST BE COORDINATED WITH THE ENLARGE TELECOM VIEWS TO ENSURE PROPER CIRCULATION SPACE IS GIVEN.
- 13 VERTICAL SLEEVES SHOULD BE ADJACENT TO THE WALL AND IN A CORNER. WHERE AT ALL POSSIBLE TO ALLOW FOR PROPER CABLE RACKING. NO MORE THAN TWO ROWS OF SLEEVES ARE ALLOWED.
- 14 VERTICALLY MOUNTED LADDER RACK IS REQUIRED TO SUPPORT CABLE. CABLE SHOULD BE SUPPORTED IN A VERTICAL POSITION TO ENSURE CABLE DOES NOT SLIP.
- 15 ALL VERTICAL SLEEVES MUST BE PROPERLY SEALED AFTER USE.
- 16 ALL CONDUIT SHOULD HAVE A PULL CORD INSTALLED WITH A MINIMUM TEST RATING OF 200 LBS.
- 17 AFTER CONDUIT INSTALLATION CONDUITS SHOULD BE LEFT CLEAN, DRY, AND UNOBSTRUCTED. REAMED AND FITTED WITH BUSHINGS, CAPPED FOR PROTECTION, AND LABELED FOR IDENTIFICATION.
- 18 ALL CABLE TRAY INSTALLATION MUST UTILIZE TRAPEZE MOUNTING. NO CENTER HUNG SUPPORTS WILL BE ALLOWED. NO WALL MOUNTS WILL BE ALLOWED. IF TRAPEZE SUPPORTS CANNOT BE USED, A REQUEST MUST BE SUBMITTED TO ALLOW ALTERNATE MOUNTING METHODS.
- 19 ALL CABLE TRAY MUST BE SEISMICALLY BRACED.
- 20 ALL CABLE TRAY THAT PENETRATES A RATED WALL ASSEMBLY MUST BE SEALED TO RETURN THE WALL TO ITS ORIGINAL RATING.



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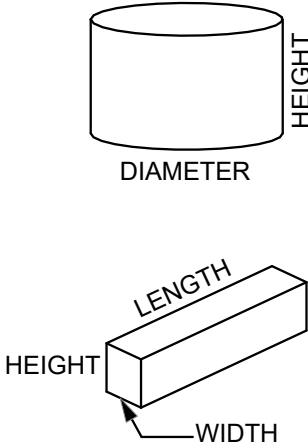
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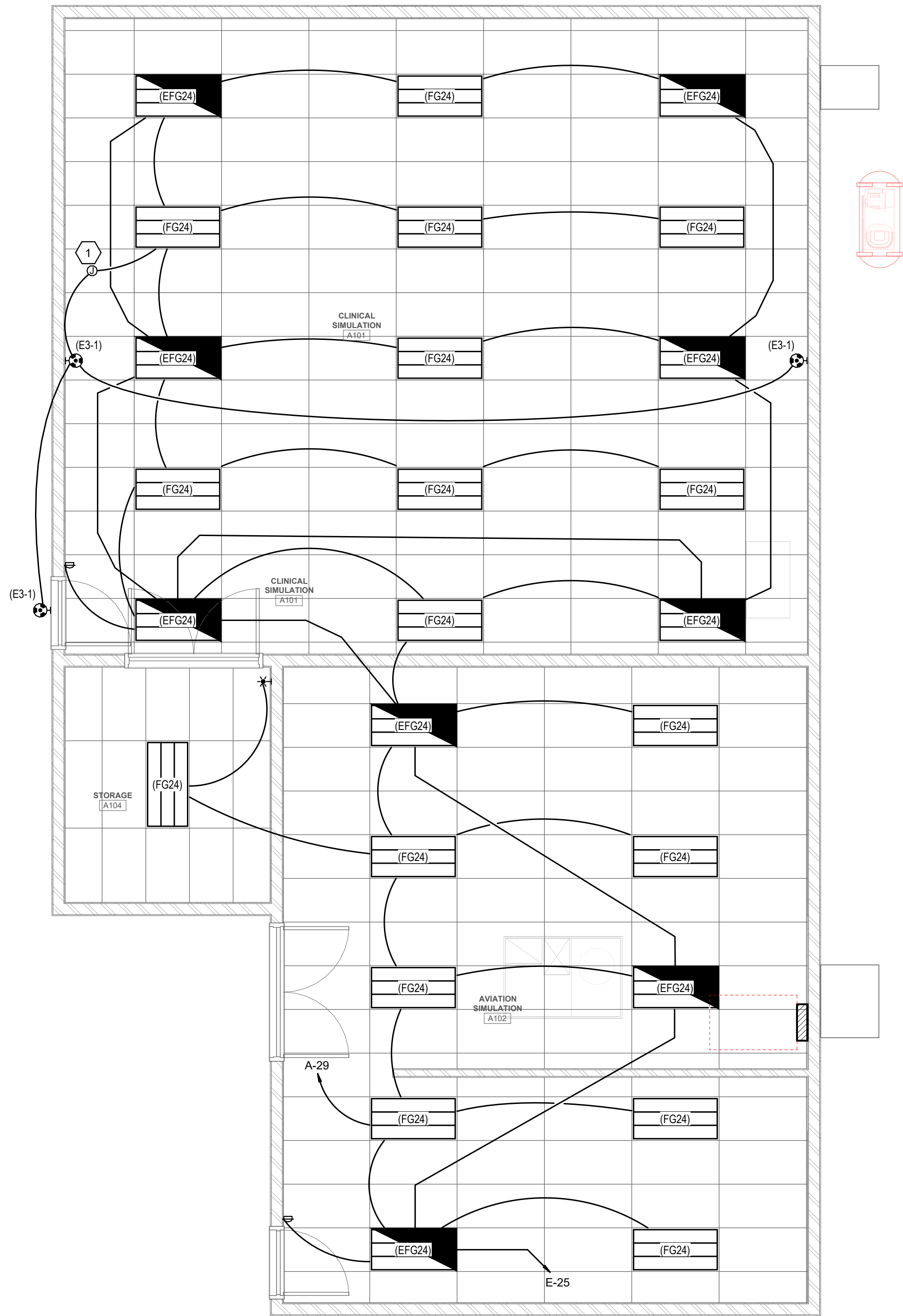
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TELECOM
RISER
DIAGRAMS

EP650

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Salt Lake City, UT 84116

INTERIOR LIGHTING FIXTURE SCHEDULE											
GENERAL NOTES											
		1. SUBSTITUTIONS AND/OR EQUAL FIXTURES MUST RECEIVE APPROVAL PRIOR TO BIDDING, THEY MUST BE SUBMITTED TO THE ENGINEER NO LESS THAN 2 WEEKS PRIOR TO BID OPENING. 2. SAMPLES MUST BE PROVIDED FOR ANY AND ALL FIXTURES UPON A/E REQUEST PRIOR TO RELEASING FIXTURES. 3. ALL FIXTURES SHALL BE LISTED AND APPROVED FOR THEIR INTENDED USE AND LOCATION. 4. VERIFY THE PROPER MOUNTING KITS OR ACCESSORIES TO FACILITATE INSTALLATION AS SHOWN AT EACH LOCATION ON THE DRAWINGS. 5. COMPLY WITH THE "INTERIOR LIGHTING" SECTION OF THE SPECIFICATIONS. 6. ALL LIGHT FIXTURES TO BE EITHER "DLC" OR "LIGHTING FACTS" LISTED OR TO BE APPROVED BY ARCHITECT/ENGINEER AND OWNER. 7. CONTRACTOR ALLOWANCE PRICES ARE ACCURATE WHEN THIS JOB WAS SPECIFIED, CONTRACTOR AND ELECTRICAL DISTRIBUTOR SHALL VERIFY THIS ALLOWANCE AND REPORT ANY PROBLEMS TO THE ENGINEER BEFORE THE BID. ALLOWANCE PRICE MAY OR MAY NOT INCLUDE LAMP(S) OR FREIGHT AS NOTED, AND DO NOT INCLUDE ANY TAXES.									
ID	DESCRIPTION	SIZE (NOMINAL)	DELIVERED DIRECT LUMENS	DELIVERED INDIRECT LUMENS	COLOR TEMP	CRI	TYPE	VOLTAGE	WATTS	MANUFACTURER (CATALOG SERIES)	
(E3-1)	DESCRIPTION: IN-USE LIGHT MOUNTING: UNIVERSAL FINISH: SCBA OPTICS: - OPTIONS: - EM: AC ONLY	LENGTH: WIDTH: DEPTH: DIAMETER:							3	KENALL (METMSU MW R IN USE DT) LITHONIA (LQM P W 1 R 120-277 IN USE) CHLORIDE (AMS GW IN USE RFR) EMERGENSEE (SEEXEL-1-G-C-A-CUST OM-IN USE)	
(EFG24)	DESCRIPTION: 2' X 4' LED FLAT PANEL, GRID LAY-IN MOUNTING: CEILING, RECESSED FINISH: SCBA OPTICS: - OPTIONS: - EM: GENERATOR TRANSFER DEVICE	LENGTH: 4' - 0" WIDTH: 2' - 0" DEPTH: -	4,300		4000K	80	0-10V DIMMING (1%)	120/277	40	DAYBRITE (2FP243L8354DSUNV DIM/BODINE GTD10DIM) LITHONIA (CPANLIOTA ETS-DR) METALUX (24CGTX 45 GTRD L835)	
(FG24)	DESCRIPTION: 2' X 4' LED FLAT PANEL, GRID LAY-IN MOUNTING: CEILING, RECESSED FINISH: SCBA OPTICS: - OPTIONS: - EM: -	LENGTH: 4' - 0" WIDTH: 2' - 0" DEPTH: -	4,300		4000K	80	0-10V DIMMING (1%)	120/277	40	DAYBRITE (2FP243L8354DSUNV DIM) LITHONIA (CPANL) METALUX (24CGTX 45 L835)	



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

GENERAL SHEET NOTES

SHEET KEYNOTES

1. PROVIDE RIBU1C ENCLOSED RELAY WITH 24V INPUT FROM MOOG BASE CONTROLLER AND 277V OUTPUT TO THE WARNING LIGHT. RELAY TO TURN ON WARNING LIGHTS WHEN MOOG MOTION BASE IS POWERED ON. RUN 3/4" CONDUIT TO MOOG HEADEND RACK FOR CONTROL WIRING. COORDINATE WITH VENDOR/VENDOR DOCUMENTATION.

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02/23/25

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Intermountain Life Flight

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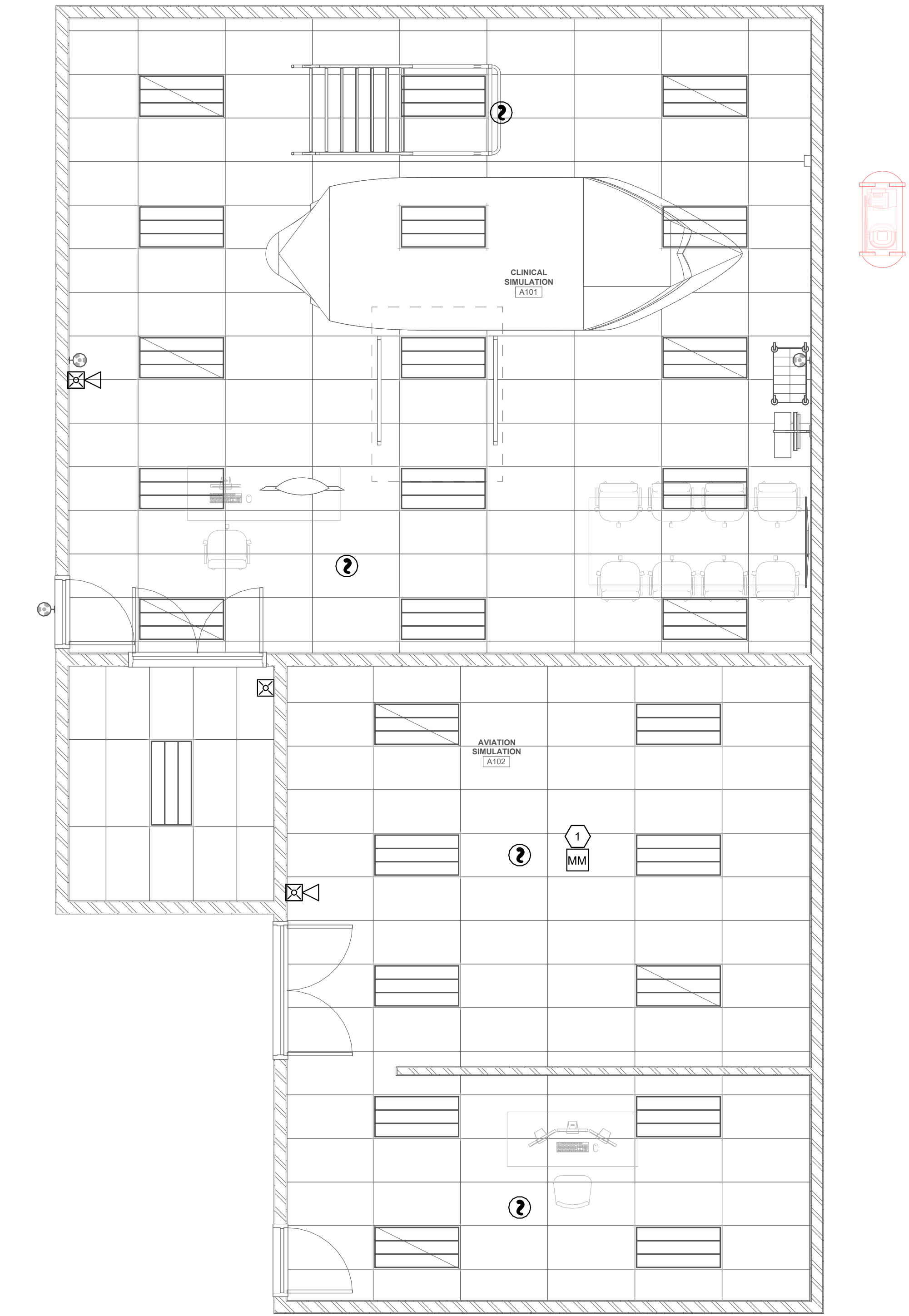
Salt Lake City, UT 84116

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Bid Set Feb 13, 2025

LEVEL 1 LIGHTING PLAN

EL101



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

GENERAL SHEET NOTES

○ SHEET KEYNOTES

- 1 PROVIDE MONITOR MODULE FOR SIMULATION EQUIPMENT TO TRANSMIT FIRE WARNING SIGNALS TO THE BUILDING FIRE ALARM SYSTEM.



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Intermountain Life Flight
Life Flight Simulator

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LEVEL 1
AUXILIARY
PLAN

EY101