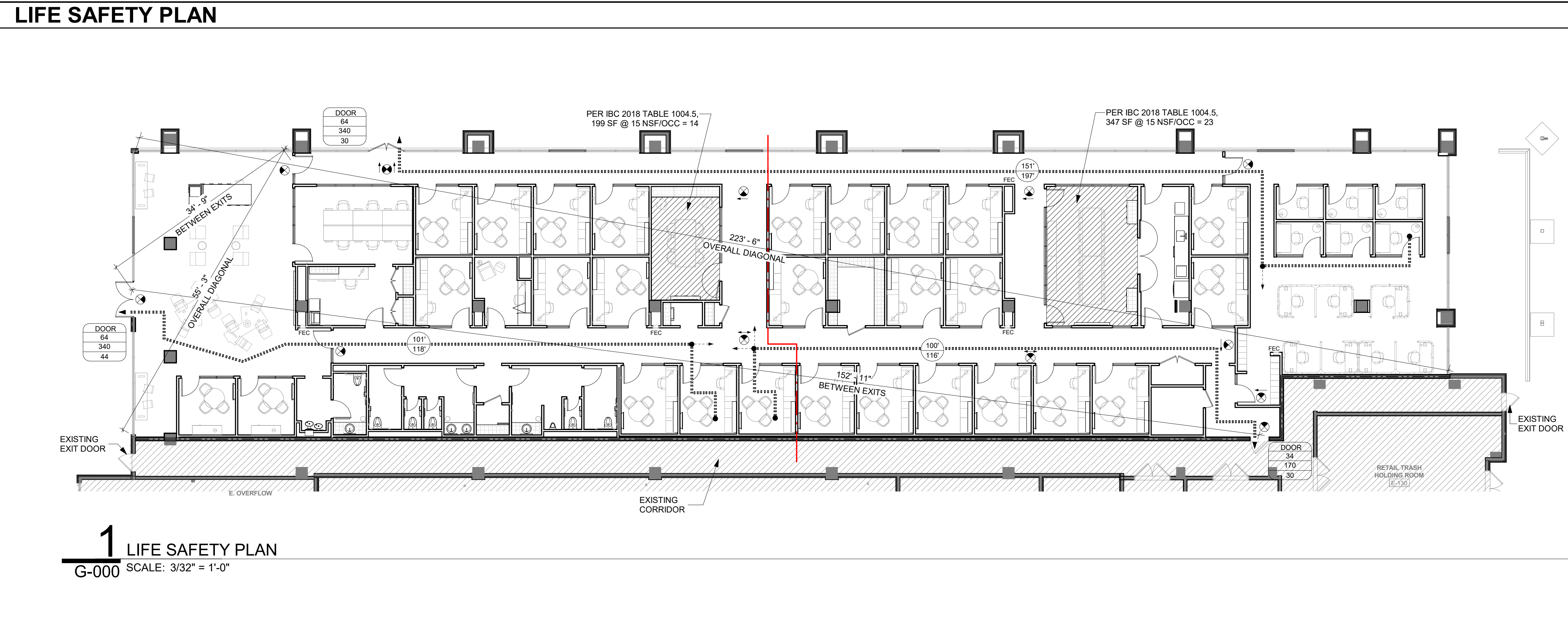
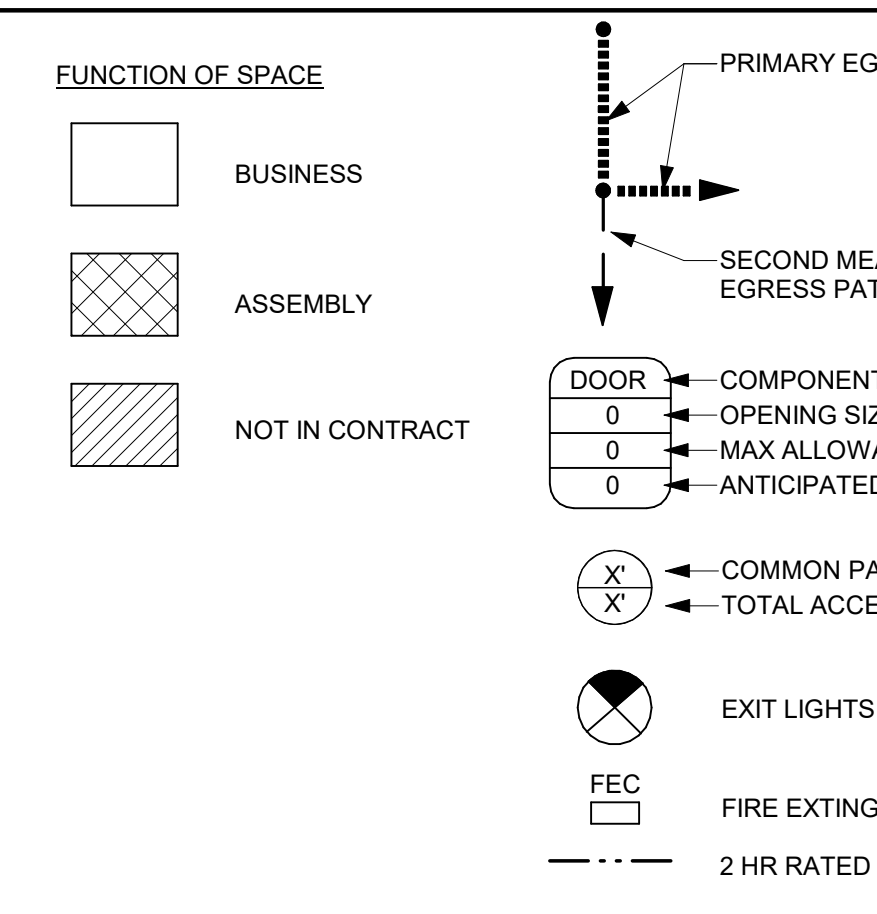


SYMBOLS table containing grid lines, room names, detail tags, match lines, dimensions, spot elevations, special finishes, leader lines, break lines, and revision clouds.



SAFETY SYMBOL LEGEND



DRAWING LIST

DRAWING LIST table with columns for SHEET NO., DRAWING TITLE, and a grid of 'X' marks indicating sheet contents.

GENERAL INFORMATION

- 1. GC SHALL VISIT PREMISES TO BECOME FAMILIAR WITH EXISTING CONDITIONS...
2. THE SUBMISSION OF PRICING SHALL BE EVIDENCE THAT THE CONTRACTOR HAS FULLY EVALUATED POTENTIAL PROBLEMS...
3. THE DOCUMENTS, DRAWINGS, AND CONSULTANT DOCUMENTS ARE COMPLEMENTARY IN NATURE...
4. "TYPICAL" MEANS TYPICAL FOR ALL SIMILAR CONDITIONS...
5. "SIMILAR" MEANS REFERENCED ITEM IS SIMILAR IN NATURE TO ACTUAL DETAIL...
6. GC SHALL OBTAIN ALL PERMITS.
7. DURING THE ENTIRE CONTRACT PERIOD, MAINTAIN IN OPERATING CONDITION ALL EXISTING EXITS...
8. BASE BUILDING ELEMENTS (ACCESS COMPONENTS, EGRESS COMPONENTS, PARKING ACCOMMODATIONS, TOILET CORES, ETC.) SHALL COMPLY WITH ALL APPLICABLE CODES AND ACCESSIBLE GUIDELINES.
9. INFORMATION SHOWN ON THESE DRAWINGS IS BASED ON INFORMATION PROVIDED TO OR OBTAINED BY JACOBS...
10. COORDINATE WITH BASE BUILDING REPRESENTATIVE ALLOWABLE WORK HOURS AND LEVEL OF NOISE GENERATED FROM WORK...

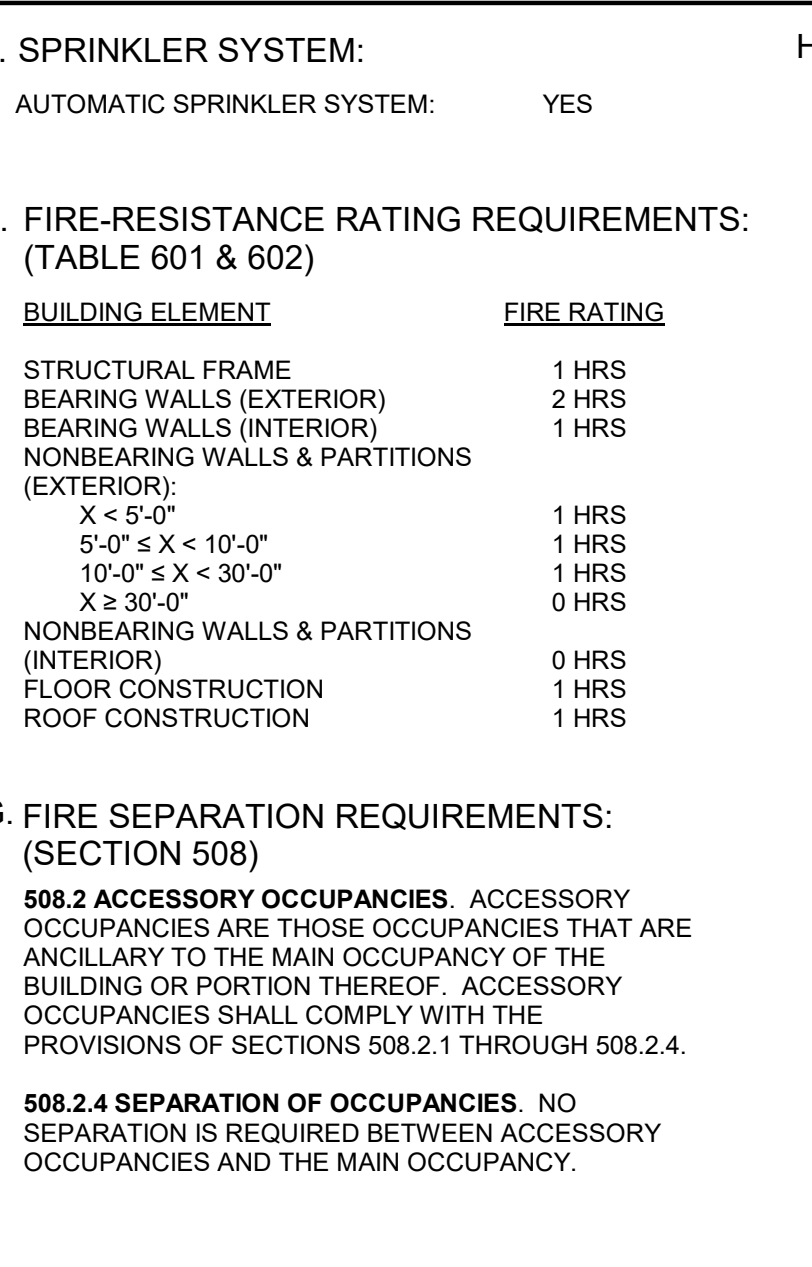
BUILDING CODE ANALYSIS

- A. APPLICABLE CODES CITY OF PHOENIX, AZ
B. BASE BUILDING TYPE OF CONSTRUCTION
C. LEVEL OF ALTERATION
D. USE AND OCCUPANCY CLASSIFICATION:
OCCUPANCY: BUSINESS (FIRST FLOOR ONLY)
CLASSIFICATION: GROUP B (BUSINESS)

SPRINKLER SYSTEM

- E. SPRINKLER SYSTEM:
AUTOMATIC SPRINKLER SYSTEM: YES
F. FIRE-RESISTANCE RATING REQUIREMENTS:
G. FIRE SEPARATION REQUIREMENTS:
H. MEANS OF EGRESS:

VICINITY MAP



PROJECT DESCRIPTION

THE PROJECT IS A FIRST GENERATION BUILD-OUT OF A FIRST FLOOR IN A NEW BUILDING. NO EXTERIOR WORK IS INCLUDED IN THIS SCOPE. THE FULL PROJECT IS APPROXIMATELY 10,530 GROSS SQUARE FEET.

OCCUPANT LOAD CALCULATION

OCCUPANT LOAD CALCULATION table with columns: FUNCTION OF SPACE, FLOOR AREA, OCCUPANT LOAD FACTOR, CALCULATED OCCUPANCY LOAD.

PLUMBING FIXTURE REVIEW

PLUMBING FIXTURE REVIEW table with columns: POPULATION, WATER CLOSET, URINAL, LAVATORIES, WATER FOUNTAIN, UTILITY SINK.

RELATED DOCUMENTS

- STRUCTURAL CALCULATIONS
COMCHECKS

General Notes:



Project Title:
Fidelity Real Estate Company
245 Summer Street
Boston, MA 20110
7171 E. Paradise Lane
Suite R-120
Scottsdale, AZ 85254

Table with columns: Number, Description, Date. Includes entry for 'Issued for Permit & Construction' on 23 DEC 24.

Key Plan: Project North True North

PROJECT DIRECTORY

PROJECT DIRECTORY table listing roles (OWNER, INTERIOR DESIGNER, ARCHITECT, STRUCTURAL ENGINEER, ENGINEER, CONSTRUCTION MANAGER, BASE BUILDING REPRESENTATIVE) and associated firms and contact information.

Project No.: K2812554 R06
Copyright: 2024 Jacobs Engineering Group, Inc.

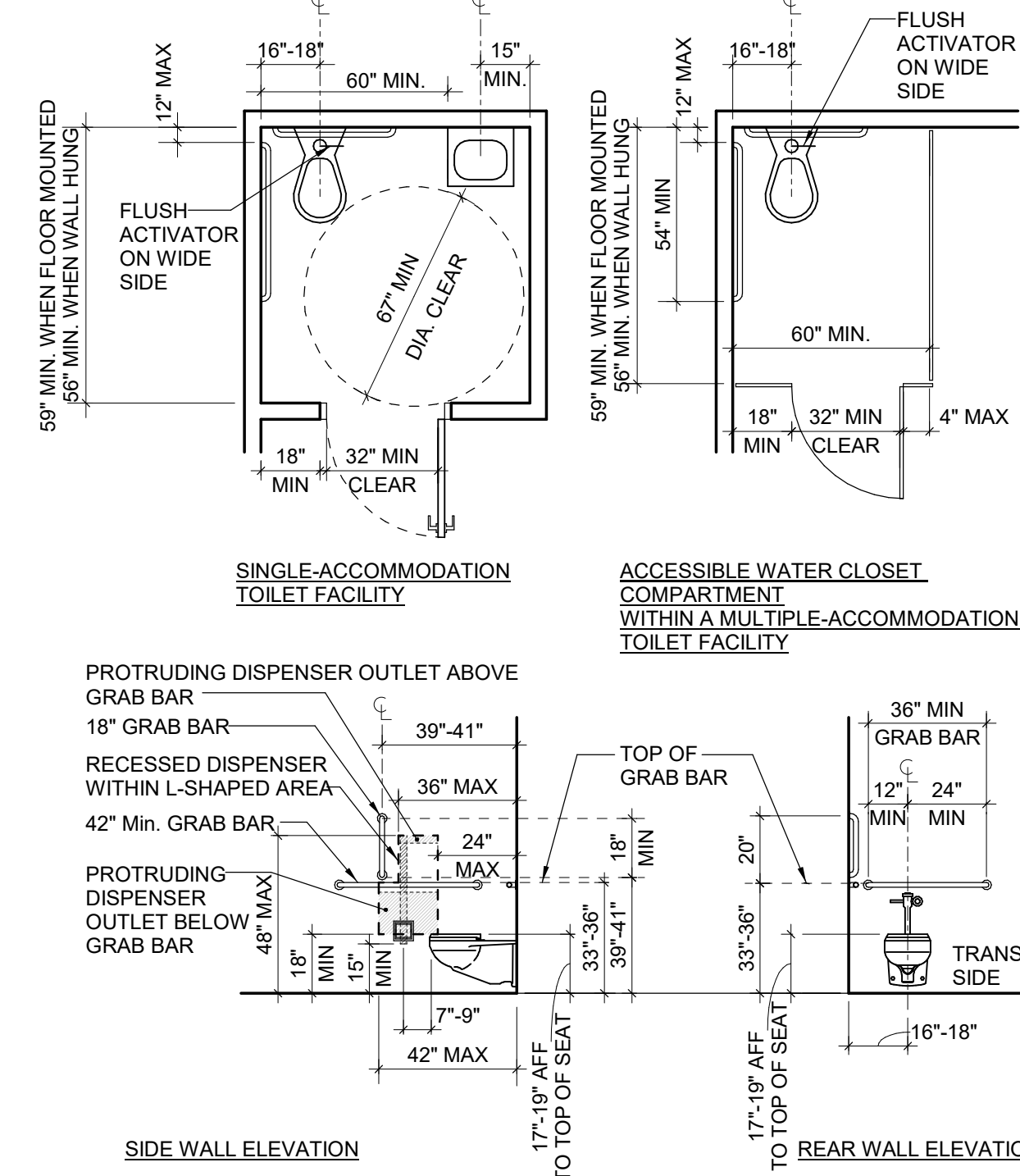
Drawing Title:
DRAWING LIST, BUILDING & LIFE SAFETY INFO, PROJECT DIRECTORY, LEGENDS & NOTES

Drawing Sheet Number: G-000

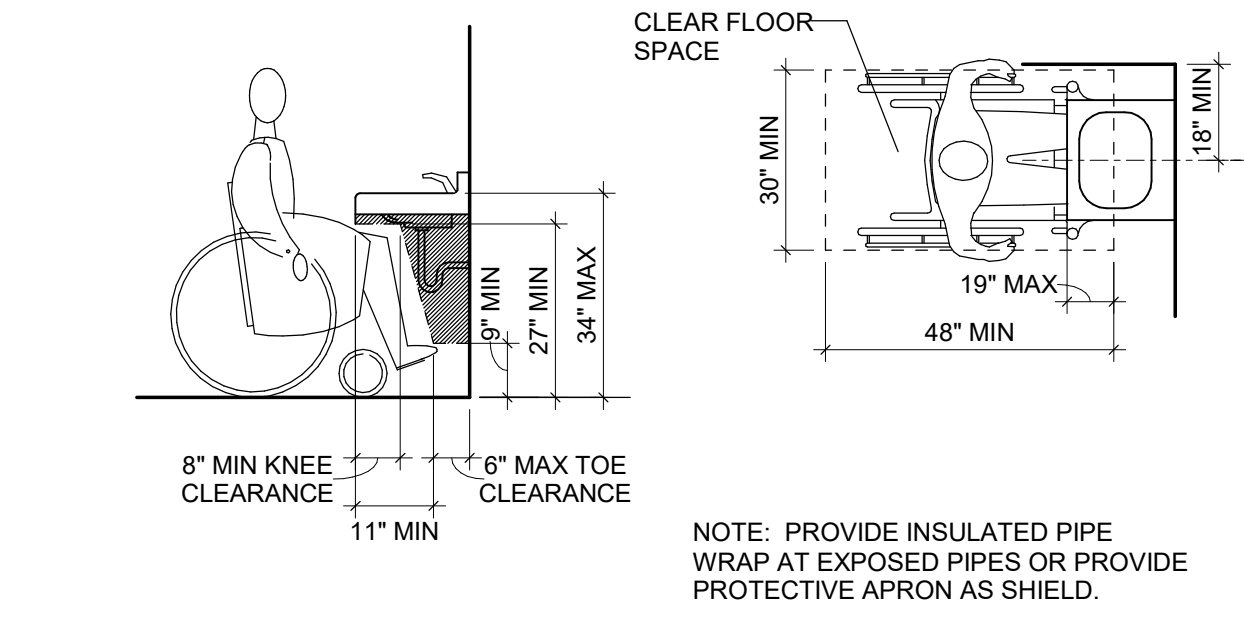
Owner's Branch No.: 134

TOILET ROOMS

- 1. VERIFY THAT ALL EXISTING SANITARY FACILITIES OF THE BASE BUILDING ON THE FLOOR OF THE PROJECT SCOPE OF WORK COMPLY WITH SECTION 402 WATER CLOSETS AND TOILET COMPARTMENTS OF ICC ANSIA117.1 AND THE ADA ACCESSIBILITY GUIDELINES. THE BUILDING OWNER SHALL BE NOTIFIED OF ANY NONCONFORMING CONDITIONS.
2. REFER TO ASSOCIATED DIAGRAMS BELOW.



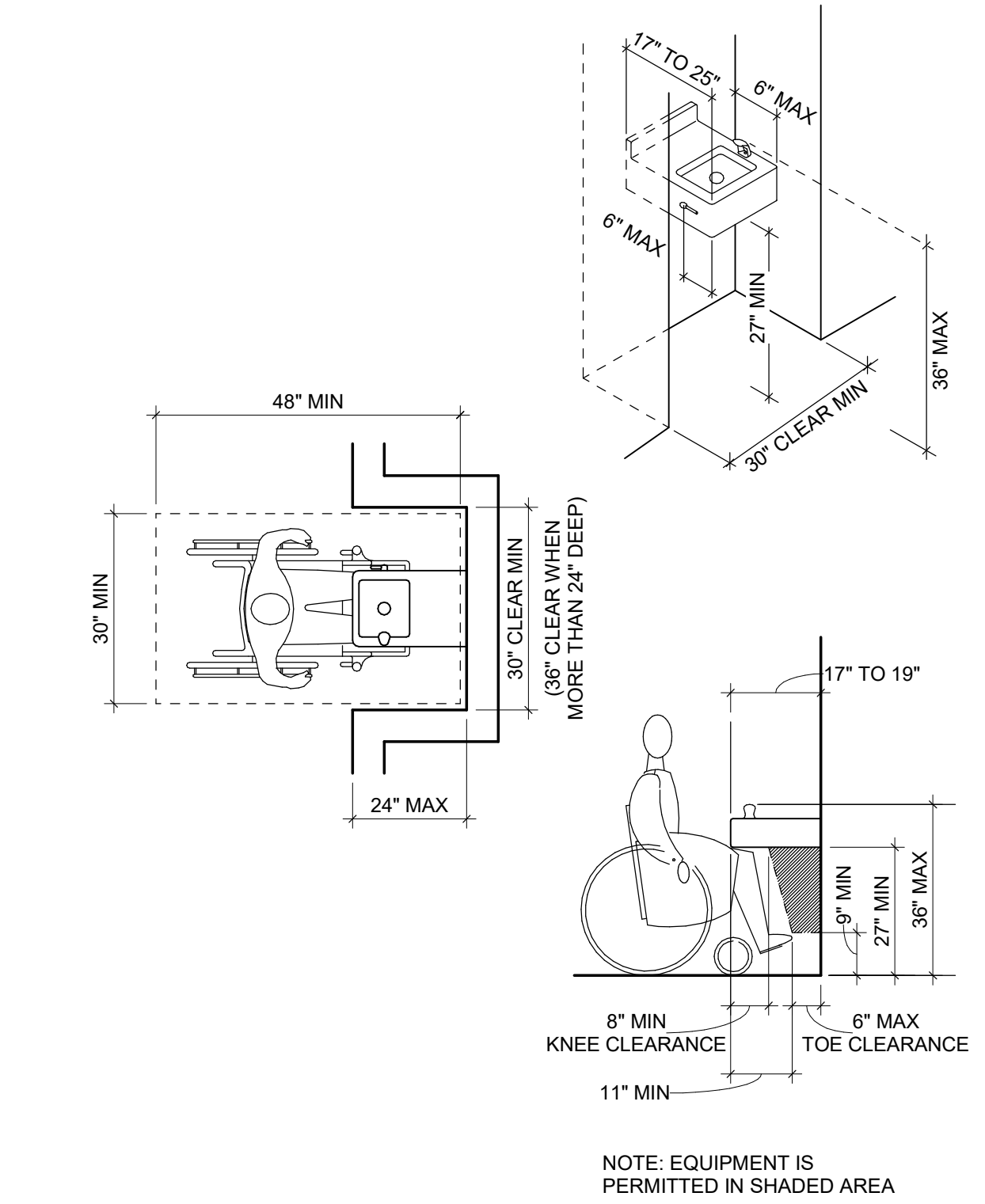
TOILET STALLS MINIMUM DIMENSIONS



SINK KNEE CLEARANCE REQUIREMENTS

DRINKING FOUNTAINS

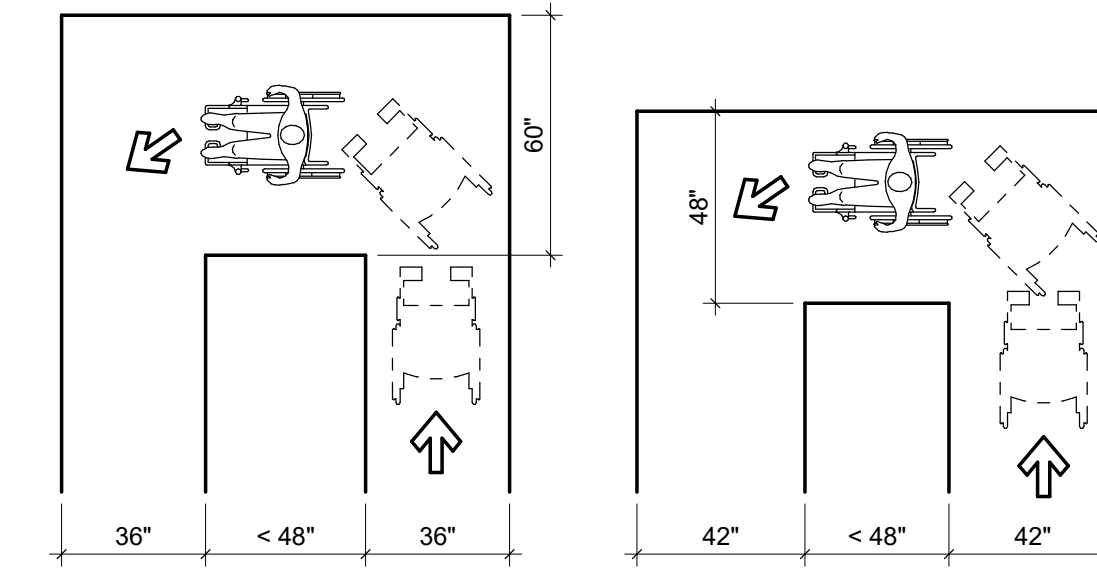
- 1. VERIFY THAT NEW AND EXISTING DRINKING FOUNTAINS COMPLY WITH SECTION 306 KNEE AND TOE CLEARANCE AND SECTION 602 DRINKING FOUNTAINS OF ICC ANSIA117.1 AND THE ADA ACCESSIBILITY GUIDELINES. THE BASE BUILDING REPRESENTATIVE SHALL BE NOTIFIED OF ANY NONCONFORMING CONDITIONS.
2. REFER TO ASSOCIATED DIAGRAMS BELOW.



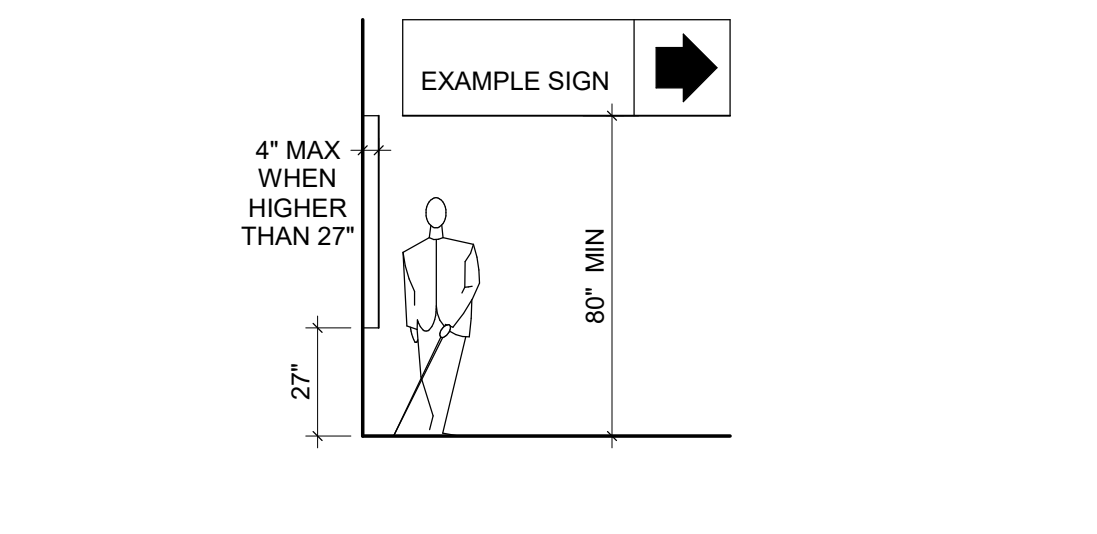
DRINKING FOUNTAIN CLEARANCES

CORRIDORS and VESTIBULES

- 1. VERIFY THAT ALL EXISTING CORRIDORS, HALLWAYS, AND VESTIBULES OF THE BASE BUILDING ALONG THE PRESCRIBED ACCESSIBLE PATH OF TRAVEL COMPLY WITH SECTION 402 ACCESSIBLE ROUTES AND 307 PROTRUDING OBJECTS OF ICC ANSIA117.1 AND THE ADA ACCESSIBILITY GUIDELINES. THE BASE BUILDING REPRESENTATIVE SHALL BE NOTIFIED OF ANY NONCONFORMING CONDITIONS.
2. NEW CORRIDORS, HALLWAYS, AND VESTIBULES ADDED AS PER PROJECT SCOPE OF WORK TO COMPLY WITH SECTION 402 ACCESSIBLE ROUTES AND 307 PROTRUDING OBJECTS OF ICC ANSIA117.1 AND THE ADA ACCESSIBILITY GUIDELINES.
3. REFER TO ASSOCIATED DIAGRAMS BELOW.



WHEELCHAIR TURNING CLEARANCES



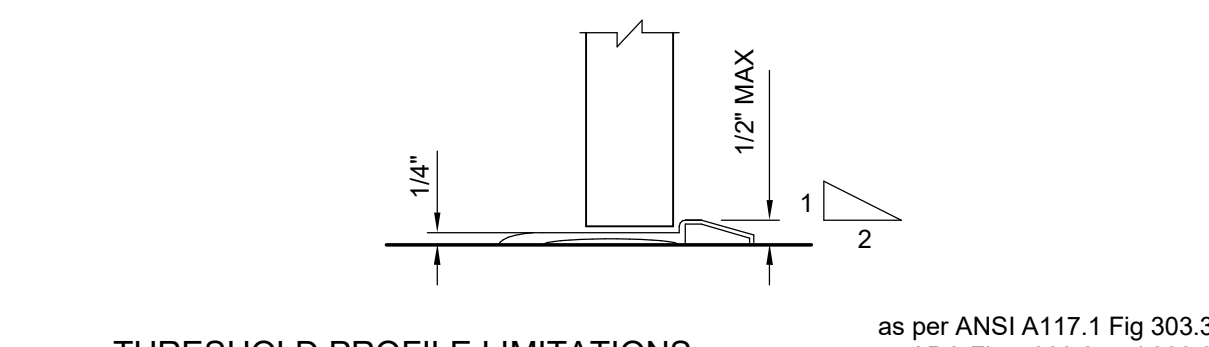
PROTRUDING OBJECTS

ACCESSIBLE ENTRANCE and EXITS

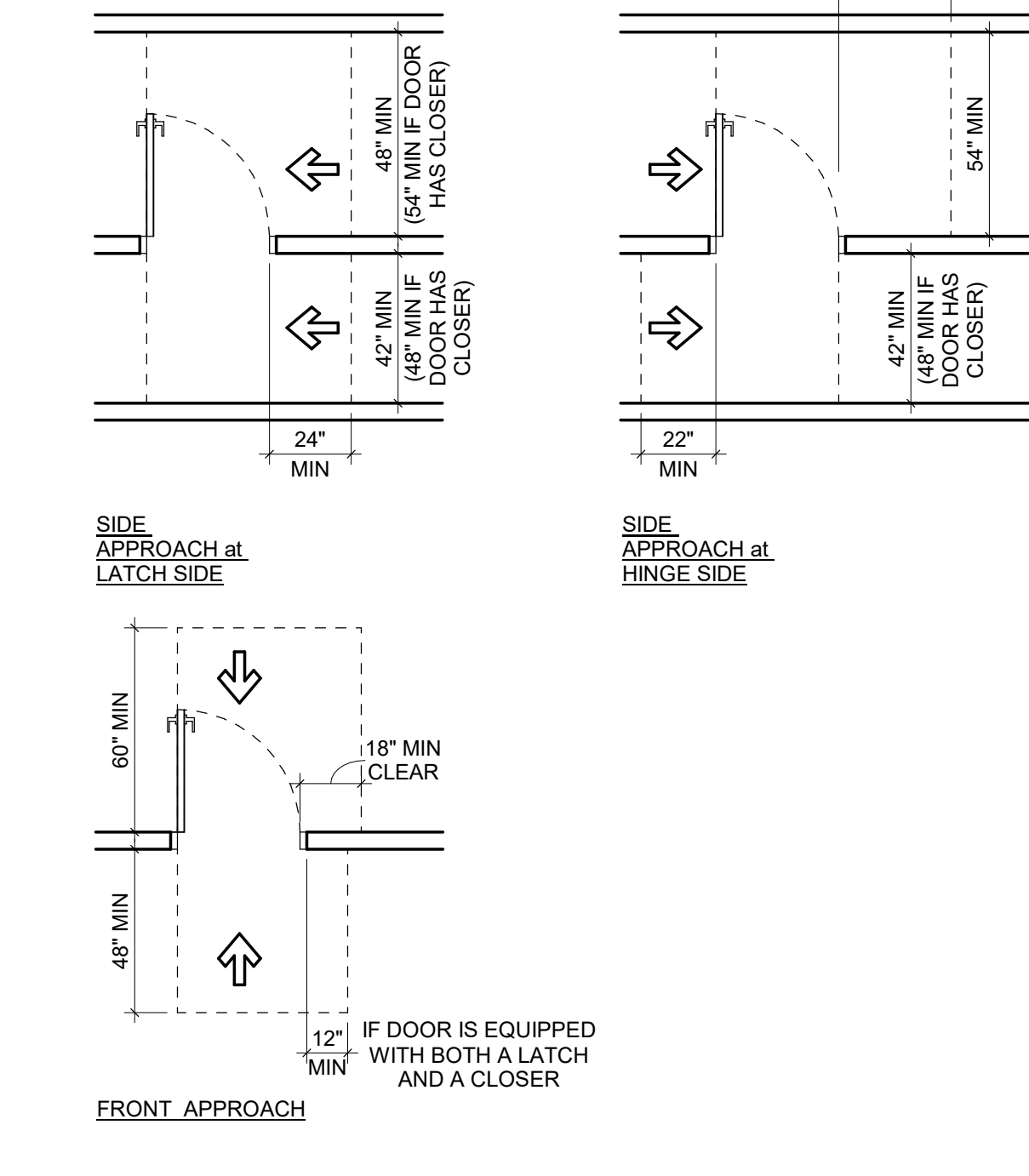
- 1. ACCESSIBILITY FOR ENTRANCES, EXITS AND PATHS OF TRAVEL SHALL COMPLY WITH SECTION 402 ACCESSIBLE ROUTE AND SECTION 404 DOORS, DOORWAYS, AND GATES OF ICC ANSIA117.1 AND THE 2012 ACCESSIBLE STANDARDS (ADA). VERIFY COMPLIANCE OF ENTRANCES, EXITS AND PATHS OF TRAVEL IN EXISTING PORTIONS OF EXISTING BUILDING NOT IN PROJECT SCOPE OF WORK AND NOTIFY THE BASE BUILDING REPRESENTATIVE OF ANY NONCONFORMING CONDITIONS.

DOORS and GATES

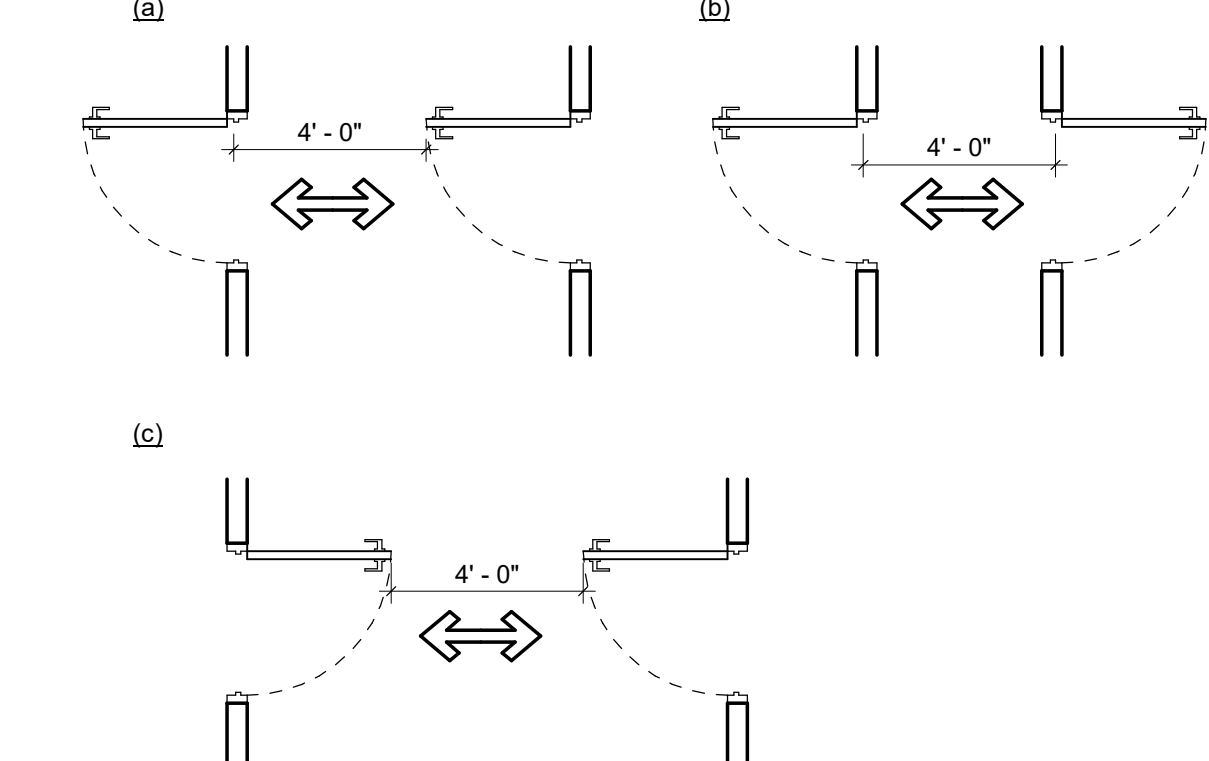
- 1. VERIFY THAT ALL EXISTING DOORS AND GATES OF THE BASE BUILDING ALONG THE PRESCRIBED ACCESSIBLE PATH OF TRAVEL COMPLY WITH SECTION 303 CHANGES IN LEVEL AND SECTION 404 DOORS, DOORWAYS, AND GATES OF ICC ANSIA117.1 AND THE 2012 ACCESSIBLE STANDARDS. THE BASE BUILDING REPRESENTATIVE SHALL BE NOTIFIED OF ANY NONCONFORMING CONDITIONS.
2. NEW DOORS AND GATES ADDED AS PER PROJECT SCOPE OF WORK TO COMPLY WITH SECTION 303 CHANGES IN LEVEL AND SECTION 404 DOORS, DOORWAYS, AND GATES OF ICC ANSIA117.1 AND THE ACCESSIBLE STANDARDS.
3. REFER TO ASSOCIATED DIAGRAMS BELOW. AS PER SECTION 404.2.5 THRESHOLDS.



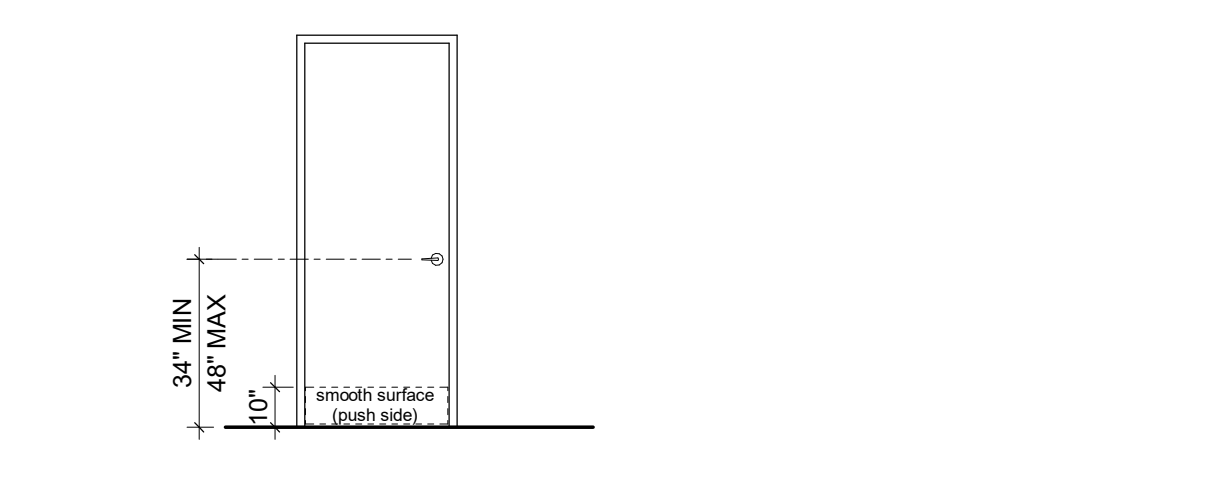
THRESHOLD PROFILE LIMITATIONS



DOOR MANEUVERING CLEARANCES

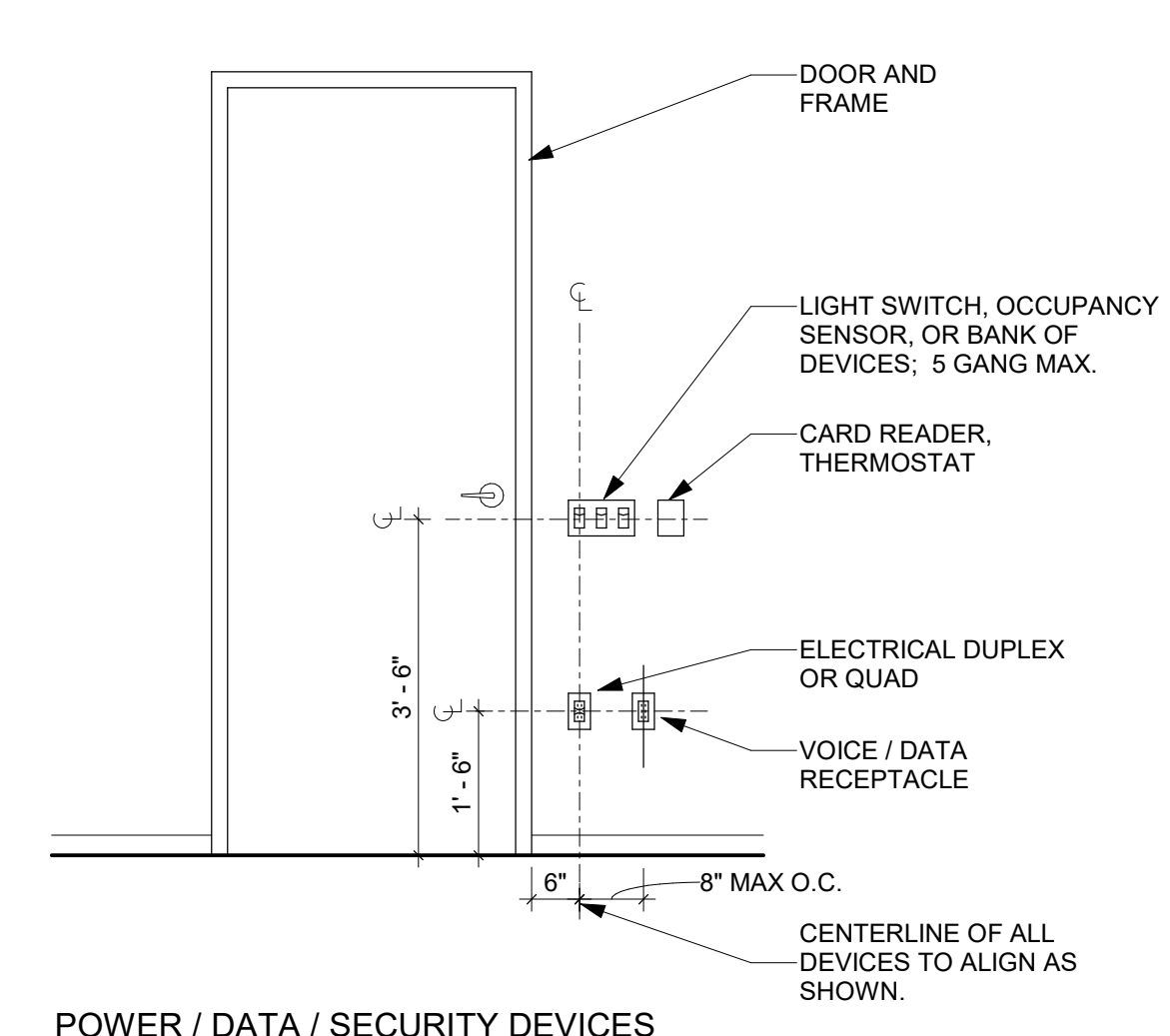


DOOR IN SERIES

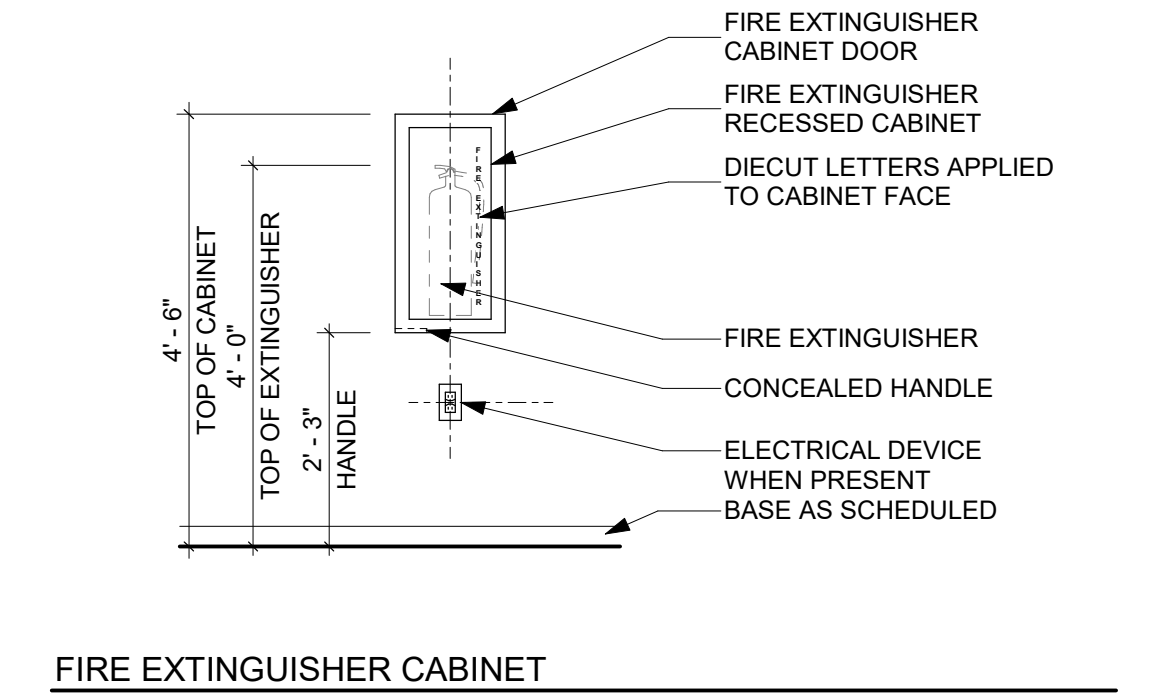


BASIC REQUIREMENTS FOR DOORS

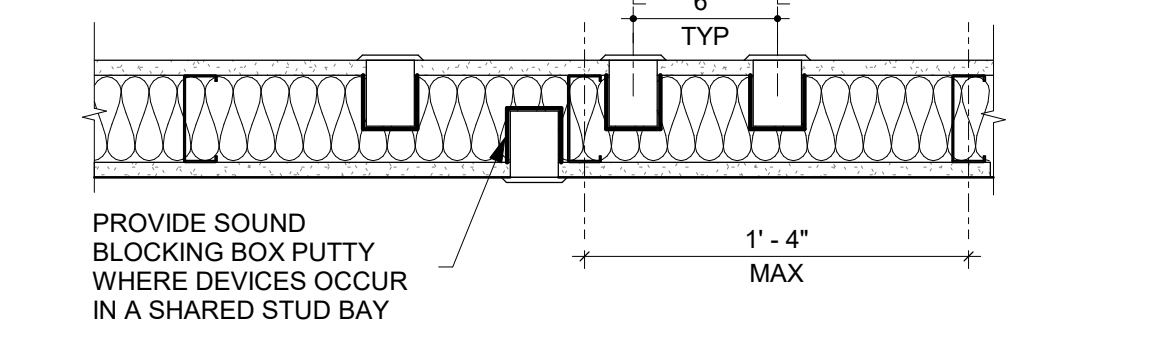
STANDARD MOUNTING HEIGHTS



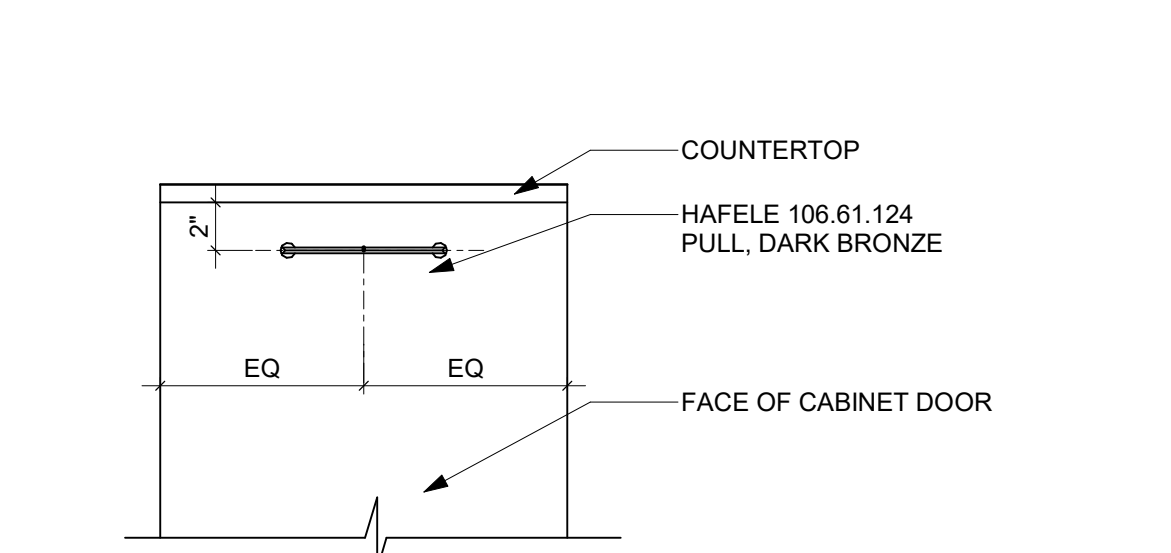
POWER / DATA / SECURITY DEVICES



FIRE EXTINGUISHER CABINET



STAGGERED POWER AND DATA DEVICE LAYOUT



TYPICAL CABINET PULL LOCATION

General Notes:



Fidelity Real Estate Company
245 Summer Street
Boston, MA 20110

7171 E. Paradise Lane
Suite R-120
Scottsdale, AZ 85254

Table with 3 columns: Number, Description, Date. Row 1: Issued for Permit & Construction, 23 DEC 24.

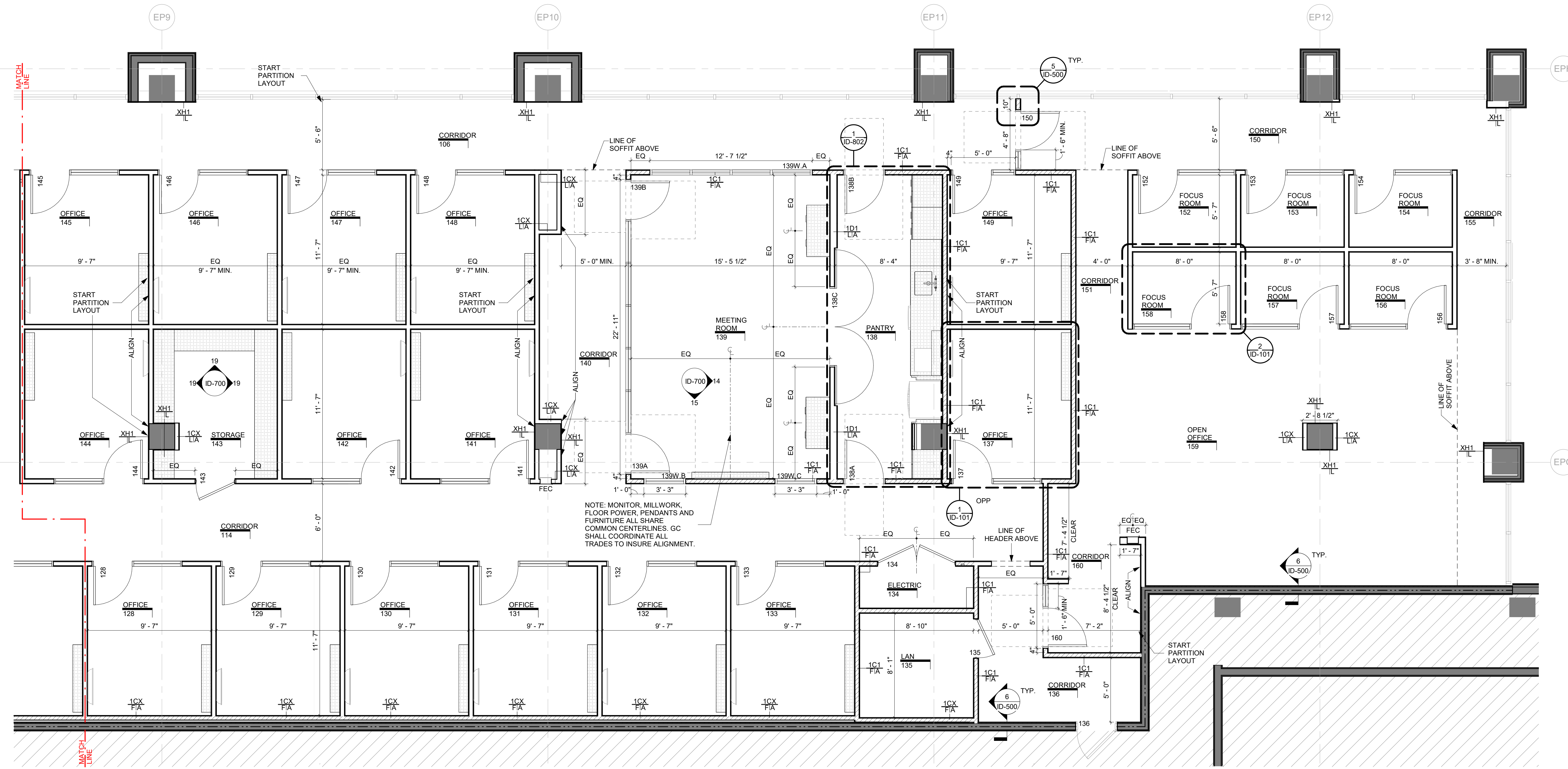
Key Plan: Project North True North

GENERAL PARTITION PLAN NOTES

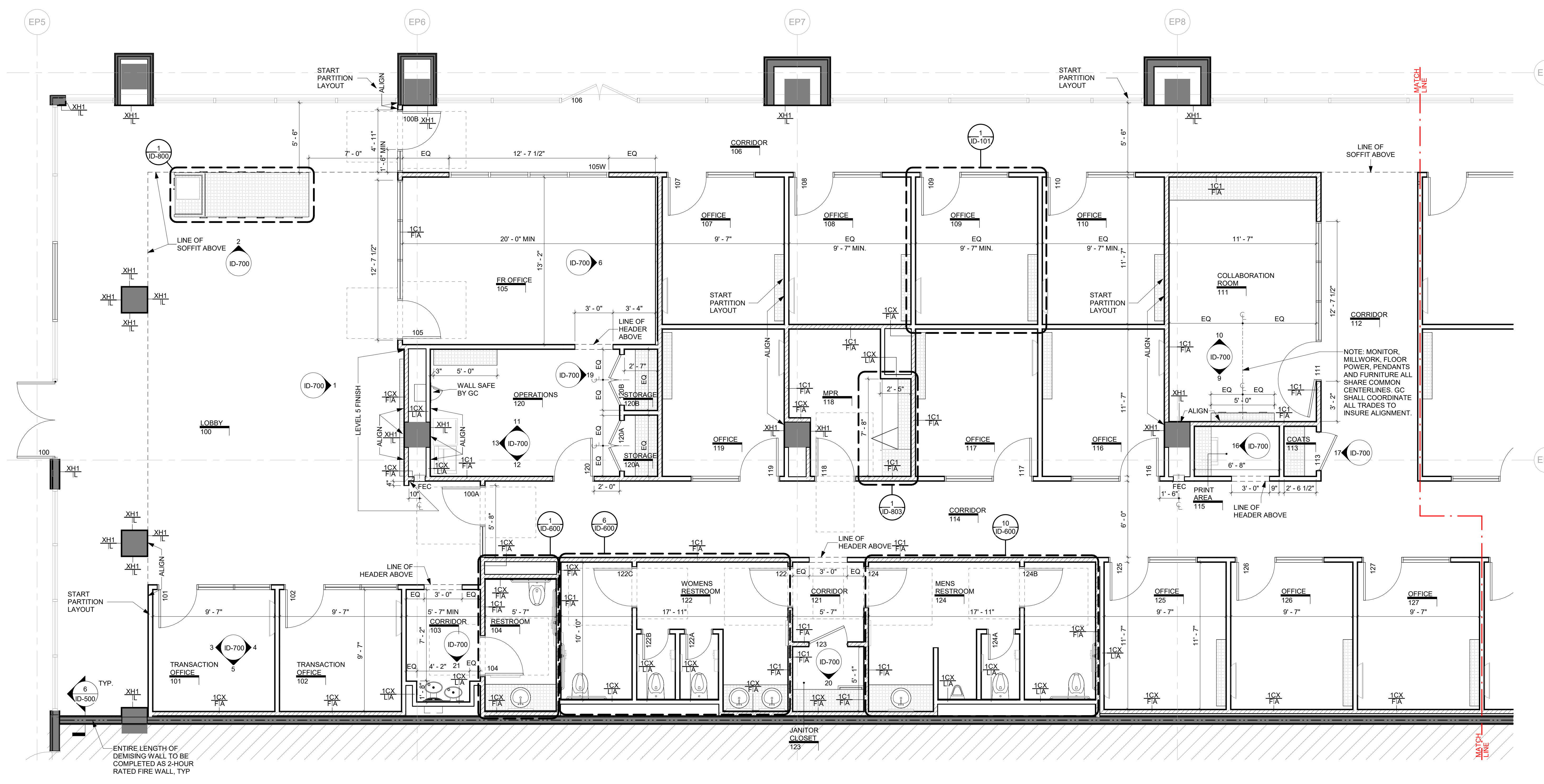
- ALL PARTITIONS SHALL BE TYPE 1C1 WITH STEEL STUD FRAMING EXTENDED TO UNDERSIDE OF SLAB ABOVE AND 5/8" GYPSUM BOARD TO 6" ABOVE FINISHED CEILING. UNLESS NOTED OTHERWISE, ALL NEW PARTITIONS SHALL HAVE SOUND ATTENUATION BLANKETS AND ACoustICAL SEALANT AS REQUIRED.
- PROVIDE LEVEL 4 GYPSUM BOARD FINISH THROUGHOUT. TYPICAL. PROVIDE LEVEL 5 GWB FINISH AT AREAS IDENTIFIED FOR FIDELITY BRANDING GRAPHICS.
- VERIFY ALL FIELD DIMENSIONS AND INFORM ARCHITECT OF ANY DISCREPANCIES BEFORE BEGINNING CONSTRUCTION.
- NEW CONSTRUCTION SHOWN ALIGNED WITH EXISTING CONSTRUCTION SHALL BE FLUSH AND SMOOTH.
- NEW CONSTRUCTION ADJUTING EXISTING PERIMETER WINDOW MULLION AND SILL SHALL CONFORM TO BUILDING REQUIREMENTS.
- DIMENSIONS ARE FACE OF PARTITION TO FACE OF PARTITION, UNO.
- TYPICAL FINISHED DOOR JAMB SHALL BE 4" FROM ADJACENT, PERPENDICULAR PARTITION, UNO.
- DIMENSIONS NOTED AS "HOLD" INDICATE REQUIRED UNOBSTRUCTED DISTANCE FROM FINISH FACE TO FINISH FACE. DEVIATION GREATER THAN 1/4" WILL RESULT IN REJECTION OF WORK.
- MAINTAIN REQUIRED ACoustICAL RATINGS WHEREVER PARTITIONS PENETRATING FINISHED CEILING ARE PIERCED BY CABLE TRAY, CONDUIT, DUCTS, PIPES, OR STEEL.
- PROVIDE CONCEALED BLOCKING IN PARTITIONS TO SUPPORT WALL MOUNTED ASSEMBLIES INCLUDING, BUT NOT LIMITED TO, AV MONITORS, WALL STOPS, COAT HOOKS, SHELVING, COAT RODS AND SHELVES, CABINETS, COUNTERTOPS, DOOR FRAMES AND HEADERS, AND SUPPORT OF TRIM.
- GYPSUM BOARD SOFFIT HEIGHT SHALL BE MEASURED FROM THE HIGH POINT OF THE PATCHED FLOOR SLAB IN THE SOFFIT AREA. ALL SOFFITS IN SAME ROOM OR ALONG SAME PASSAGEWAY SHALL ALIGN.
- EXISTING GYPSUM BOARD PARTITIONS, COLUMN ENCLOSURES AND CEILING SURFACES TO REMAIN SHALL BE PATCHED, SANDED SMOOTH AND/OR SKIM-COATED TO YIELD A LIKE-NEW APPEARANCE AND PREPARED TO RECEIVE NEW SCHEDULED FINISH.
- EXISTING FLOOR SLAB SHALL BE PATCHED, REPAIRED, REFINISHED, LEVELED AND SEALED AS REQUIRED FOR PROPER INSTALLATION OF FINISH FLOOR MATERIALS.
- PATCH OR PROVIDE NEW APPROVED FIRESTOPPING ASSEMBLY AT ALL EXISTING AND NEW WALL AND/OR FLOOR PENETRATIONS AS REQUIRED. PENETRATIONS INCLUDE, BUT ARE NOT LIMITED TO, DUCTWORK, PIPEWAYS, CABLE TRAYS, AND CONDUIT RUNS.
- PATCH, REPAIR AND REFINISH AS REQUIRED ANY DAMAGES IN FLOOR AND PARTITIONS LEFT FROM THE REMOVAL OF ELECTRICAL AND COMMUNICATION RECEPTACLES, LIGHT SWITCHES, THERMOSTATS, SECURITY DEVICES, ETC.
- WHERE SCHEDULED PARTITION TYPE IS TO BE FINISHED WITH TILE, OMIT GYPSUM BOARD AND PROVIDE CEMENT BOARD TYPE PRODUCT. WHERE SCHEDULED PARTITION TYPE IS LOCATED IN AN AREA OF HIGH HUMIDITY OR INCIDENTAL MOISTURE, PROVIDE MOISTURE RESISTANT TYPE PRODUCT.
- GYPSUM BOARD SHALL CONTINUE CLOSE TO FLOOR SLAB TO ALLOW FOR PROPER INSTALLATION OF 2 1/2" HIGH WALL BASE.

SYMBOLS LEGEND

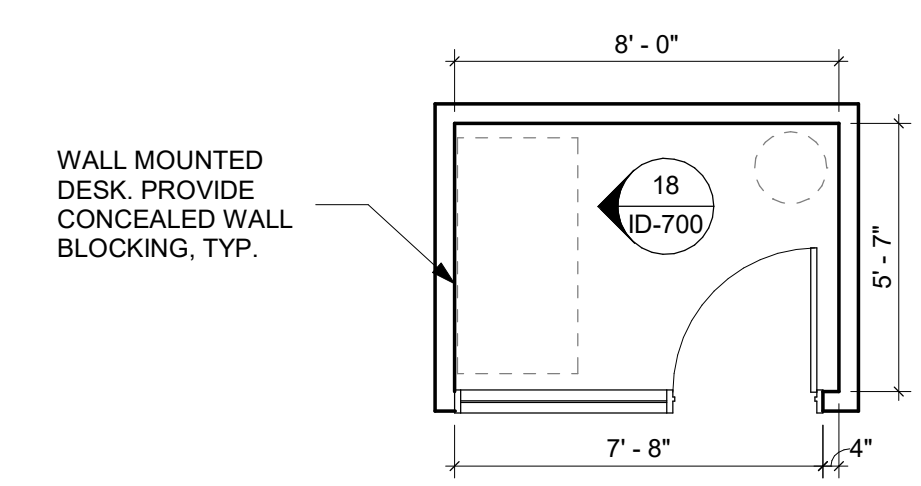
- | | | | |
|--|---|--|--|
| | NEW CONSTRUCTION, REFER TO ID-500 FOR PARTITION TYPES | | WALL MONITOR BY OWNER SHOWN FOR WALL BLOCKING COORDINATION |
| | EXISTING CONSTRUCTION TO REMAIN | | FIRE EXTINGUISHER CABINET, REFER TO SPEC 104000 |
| | FULL HEIGHT PARTITION | | WALL MOUNTED SAFE, REFER TO SPEC 110200 |
| | FULL HEIGHT PARTITION W BARRIER MESH | | MATCH LINE |
| | 2 HR RATED PARTITION | | |
| | EXISTING DOOR FRAME AND HARDWARE TO REMAIN, UNO | | |
| | NEW DOOR FRAME AND HARDWARE REFER TO ID-510 | | |
| | PARTITION TYPE IDENTIFICATION TAG REFER TO ID-500 LEGEND AND TYPES | | |
| | INDICATES MILLWORK ELEMENT. REFER TO NOTED ELEVATIONS FOR MILLWORK DIMENSIONS AND DETAILS | | |
| | FINISHED WALL OPENING | | |



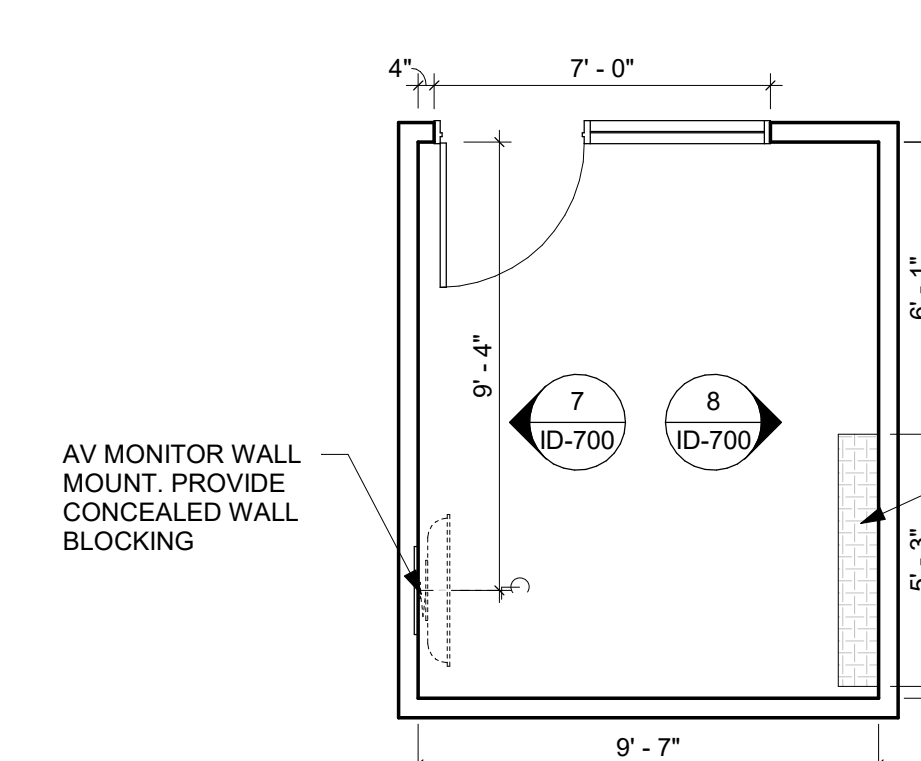
4 INTERIOR PARTITION PLAN - EAST
ID-101 SCALE: 1/4" = 1'-0"



3 INTERIOR PARTITION PLAN - WEST
ID-101 SCALE: 1/4" = 1'-0"



2 TYP. FOCUS ROOM
ID-101 SCALE: 1/4" = 1'-0"



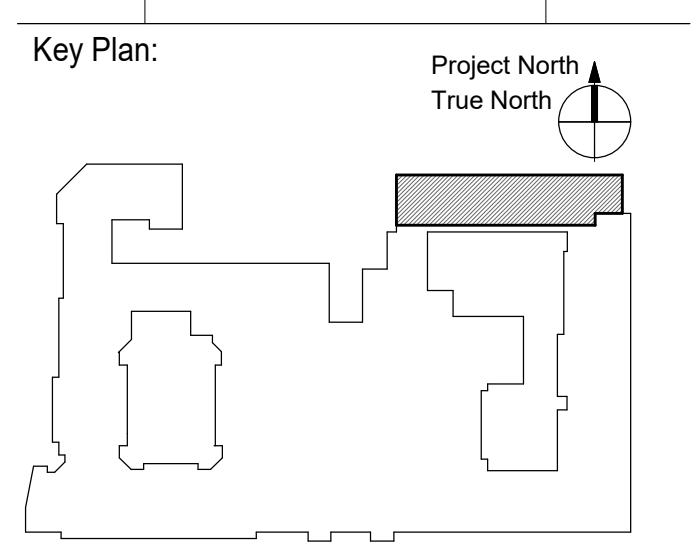
1 TYP. OFFICE, PORTRAIT
ID-101 SCALE: 1/4" = 1'-0"



Project Title:
Fidelity INVESTMENTS
Fidelity Real Estate Company
245 Summer Street
Boston, MA 20110

7171 E. Paradise Lane
Suite R-120
Scottsdale, AZ 85254

Number	Description	Date
1	Issued for Permit & Construction	23 DEC 24



Project No.: K2812554 R06
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Drawing Sheet Title:
INTERIOR PARTITION PLAN

Drawing Sheet Number:
ID-101
Owner's Branch No.:
134

GENERAL NOTES

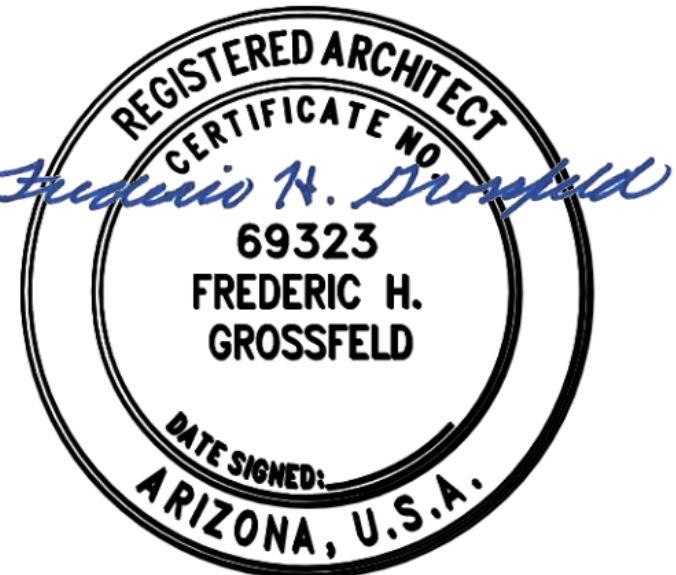
- COORDINATE INSTALLATION OF CONDUIT, JUNCTION BOXES, PULL-STRINGS AND COVER PLATES WITH COMMUNICATIONS PROVIDER.
- PROVIDE AND INSTALL ALL WORK IN STRICT ACCORDANCE WITH THE NATIONAL BOARD OF FIRE UNDERWRITERS, PUBLIC UTILITY COMPANIES, TELEPHONE COMPANIES, CABLE SUBSCRIPTION COMPANIES AND ALL OTHER AUTHORITIES HAVING JURISDICTION.
- ALL NEW MATERIALS REQUIRED SHALL CONFORM WITH THE STANDARDS OF UNDERWRITERS LABORATORIES, INC. (UL) IN EVERY CONDITION WHERE SUCH A STANDARD HAS BEEN ESTABLISHED FOR THE PARTICULAR TYPE OF MATERIALS IN QUESTION.
- ALL RECEPTACLE INSTALLATION SHALL CONFORM TO REQUIREMENTS SET FORTH BY THE AMERICANS WITH DISABILITIES ACT (ADA).
- VERIFY ALL EQUIPMENT POWER REQUIREMENTS AND RECEPTACLE TYPES WITH EQUIPMENT MANUFACTURER(S) PRIOR TO POWER DISTRIBUTION AND RECEPTACLE INSTALLATION.
- REFER TO 'D'-SERIES DRAWINGS FOR POWER AND DATA LOCATIONS AND MOUNTING HEIGHTS. REFER TO 'E'-SERIES DRAWINGS FOR SPECIFIC POWER INFORMATION.
- ANY ELECTRICAL AND/OR COMMUNICATION RECEPTACLES SHOWN AS EXISTING IN HATCHED AREAS OF PLANS ARE TO REMAIN UNO.
- COORDINATE INSTALLATION OF RECEPTACLES WITH MILLWORK TO ENSURE RECEPTACLE IS FLUSH WITH SURFACE OF MILLWORK FACE OR AS INDICATED IN DETAILS.
- ALL RECEPTACLES, SWITCHES AND FACE PLATES SHALL BE WHITE, UNO. SPECIAL DESIGNATION, DESIGNATED OR ISOLATED GROUND RECEPTACLES SHALL BE COLORED.
- REFER TO 'D'-001 FOR STANDARD MOUNTING HEIGHTS FOR RECEPTACLES, DATA DEVICES, SWITCHES, KEY PADS AND THERMOSTATS, UNO.
- WALL RECEPTACLES SHALL NOT BE PLACED BACK TO BACK. STAGGER RECEPTACLES WITH A STUD BETWEEN THEM. REFER TO 'D'-001 FOR DIAGRAM.
- ADJACENT WALL RECEPTACLES AND SWITCHES SHALL BE GANGED WHEN POSSIBLE, WITH A COMMON FACE PLATE, IF RECEPTACLES CANNOT BE GANGED, THEY SHALL BE INSTALLED WITH A MINIMUM DISTANCE BETWEEN UNITS.
- PROVIDE BLOCKING, JUNCTION BOXES, CONDUIT RUNS AND REQUIRED POWER FOR SECURITY DEVICES AS LOCATED ON PLANS. COORDINATE WITH SECURITY DRAWINGS AND SECURITY VENDOR.
- ALL DIMENSIONS SHOWN ARE TO CENTERLINE OF RECEPTACLE OR GROUPS OF RECEPTACLES AND FINISH FACE OF PARTITIONS, UNO.
- VERIFY RECEPTACLE HEIGHTS AND LOCATIONS WITH SPECIAL REQUIREMENTS OF EQUIPMENT PRIOR TO INSTALLATION.
- WHERE ELECTRICAL OR COMMUNICATION RECEPTACLES OCCUR IN FIRE-RATED OR ACOUSTICALLY RATED CONSTRUCTION, PROVIDE JUNCTION BOX AND 1" CONDUIT STUBBED TO 6" ABOVE FINISHED CEILING WITH PULL STRING FOR COMMUNICATIONS PROVIDER.
- REFER TO 'D'-001 FOR STANDARD MOUNTING HEIGHTS FOR RECEPTACLES, SWITCHES, KEY PADS AND THERMOSTATS, UNO.

SYMBOLS LEGEND

SYMBOL	DESCRIPTION:	SYMBOL	DESCRIPTION:	SYMBOL	DESCRIPTION:
	DUPLEX RECEPTACLE WITH USB PORTS		HDMI CABLE. REFER TO ENGINEERING DRAWINGS		FLOOR MOUNTED POWER / DATA FURNITURE CONNECTION
	DUPLEX RECEPTACLE WITH GFI		SWITCH/OCCUPANCY SENSOR		WALL MOUNTED POWER FURNITURE CONNECTION
	QUADPLEX RECEPTACLE		ACCESS CONTROL. REFER TO SECURITY DRAWINGS		WALL MOUNTED TELEDATA FURNITURE CONNECTION
	VOICE/DATA RECEPTACLE		KEY PAD. REFER TO SECURITY DRAWINGS		WALL BOX. REFER TO ENGINEERING DRAWINGS
	DATA RECEPTACLE		EQUIPMENT TAG		FLOOR BOX. FINISH SHALL BE NICKEL
	AUDIO VISUAL JUNCTION BOX		JUNCTION BOX - ABOVE CEILING		IN FLOOR CONDUIT STUB-UP
	VOICE/DATA/HDMI RECEPTACLE		WALL MOUNTED JUNCTION BOX		QUADPLEX/DUPLEX POKE-THROUGH
			THERMOSTAT		POWER / VOICE / DATA POKE-THROUGH

EQUIPMENT LEGEND

TAG	DESCRIPTION / REMARKS	MANUFACTURER	MODEL NUMBER	PROVIDE	INSTALL
A1	UNDERCOUNTER REFRIGERATOR - LOBBY ISLAND	SUMMIT	AL570	GC	GC
A2	UNDERCOUNTER REFRIGERATOR - MPR	SUMMIT	AL55F - PANEL READY	GC	GC
A3	REFRIGERATOR, FULL SIZE - PANTRY	KITCHENAID	KRF3020SS	GC	GC
A4	DISHWASHER - PANTRY	BOSSCH	SK67SC54	GC	GC
A5	MICROWAVE W/ TRIM KIT - PANTRY	GENERAL ELECTRIC	PEM31SFS5	GC	GC
A6	COFFEE MAKER - PANTRY	MARS	FLAVA BARISTA	OTHER	OTHER
A7	COFFEE MAKER - LOBBY ISLAND	MARS DRINKS	FLAVA CREATION 500	OTHER	OTHER
A9	LED DISPLAY AND MOUNT - 65" - COLLAB	REFER TO AV DRAWINGS		OTHER	OTHER
A10	LED DISPLAY AND MOUNT - 75" - MEETING ROOM	REFER TO AV DRAWINGS		OTHER	OTHER
A11	COLOR MULTI-FUNCTION PRINTER / COPIER	LEDMARK	C7920TE	OTHER	OTHER
A12	SHREDDER	DESTROYIT	400SC	OTHER	OTHER
A13	32" MONITOR AND ARM	REFER TO AV DRAWINGS		OTHER	OTHER



12/20/2024

Project Title:

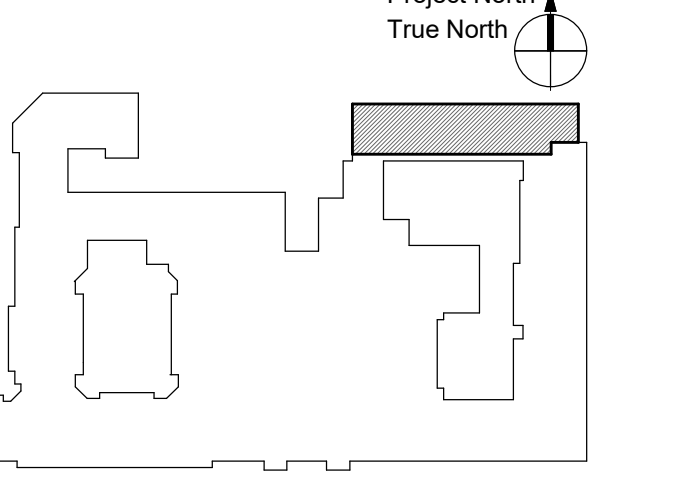


Fidelity Real Estate Company
245 Summer Street
Boston, MA 20110

7171 E. Paradise Lane
Suite R-120
Scottsdale, AZ 85254

Number	Description	Date
	Issued for Permit & Construction	23 DEC 24

Key Plan:



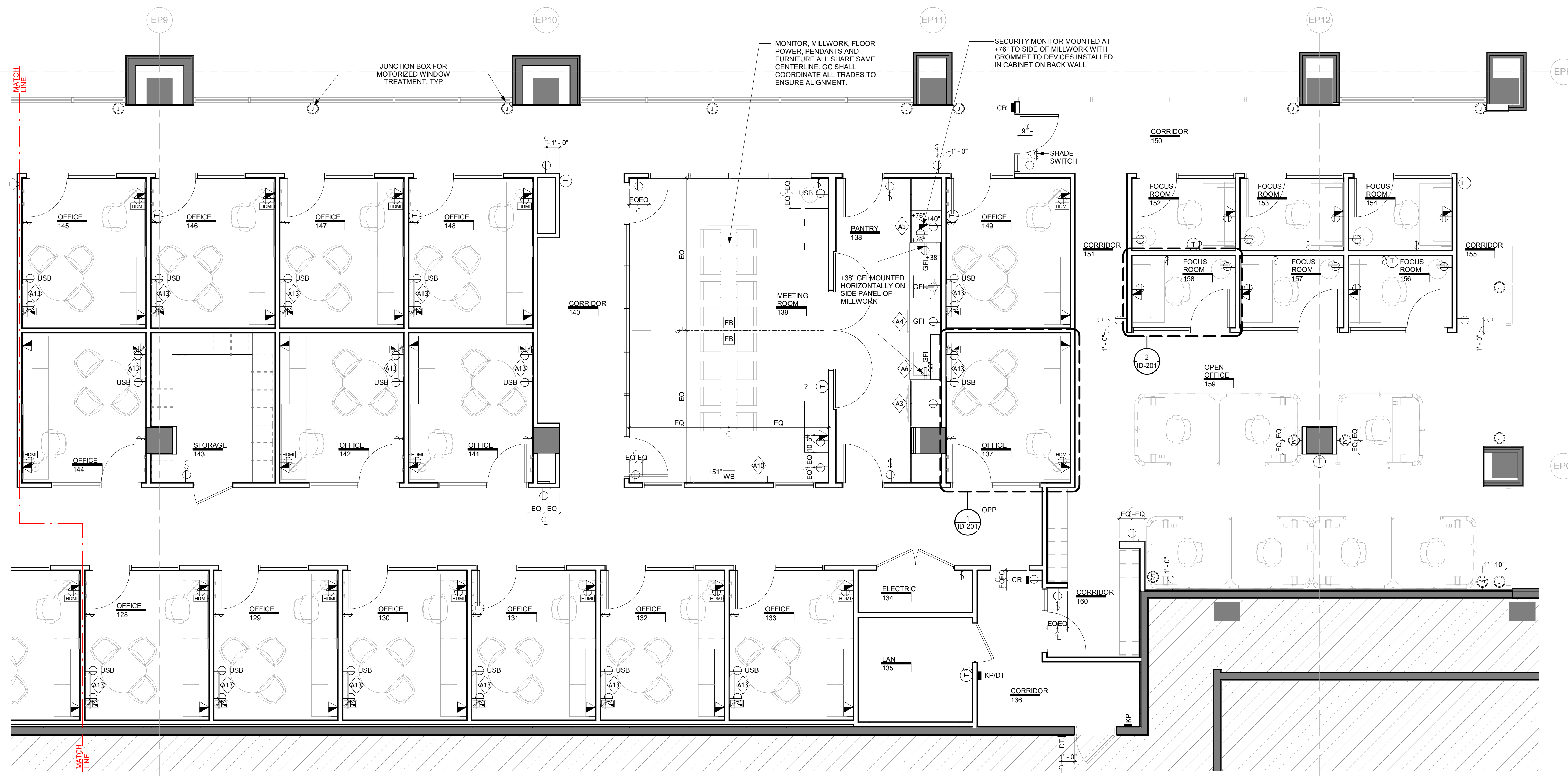
Project No.: K2812554 R06
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Drawing Sheet Title:
INTERIOR POWER AND COMMUNICATION LOCATION PLAN

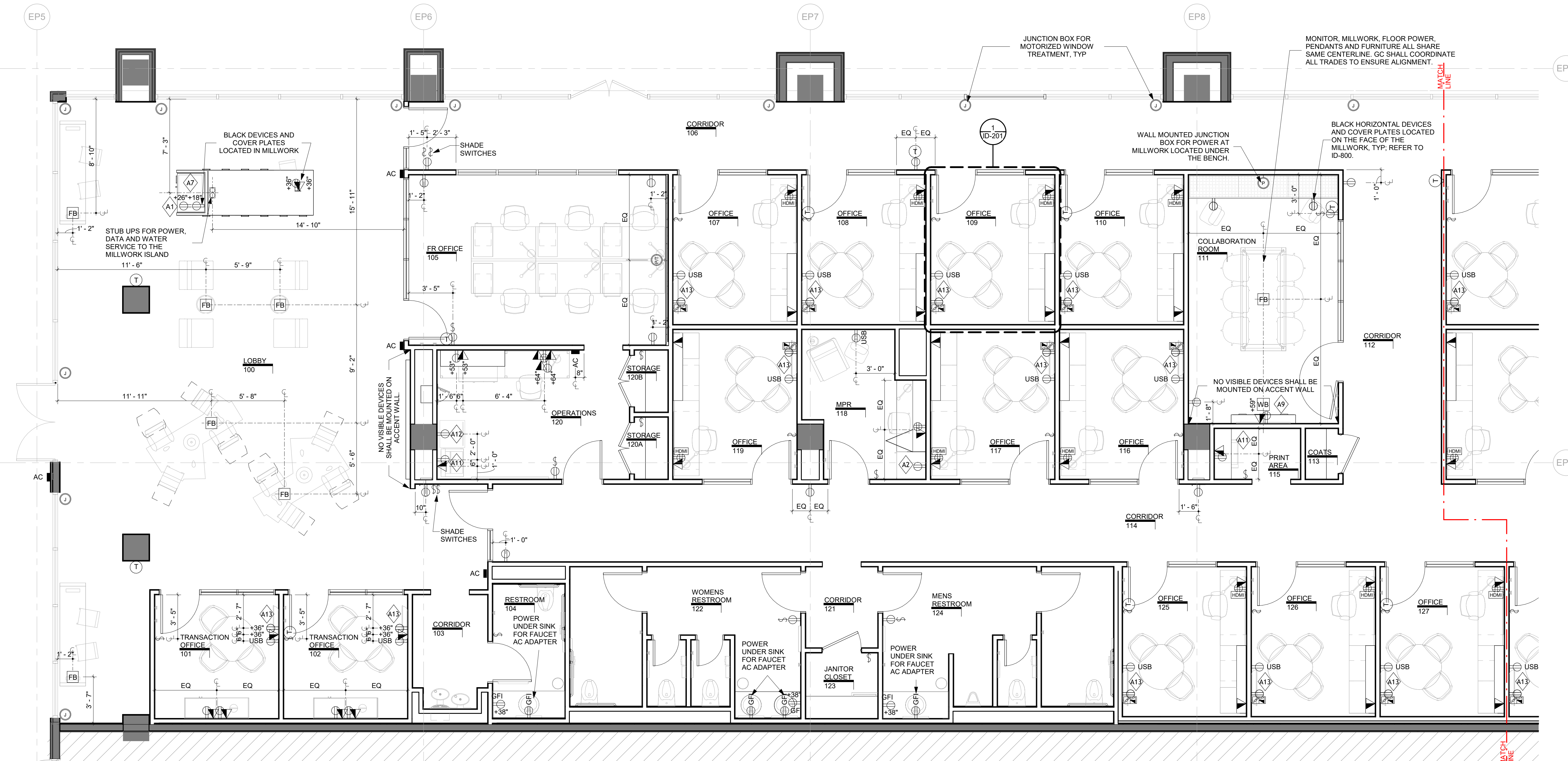
Drawing Sheet Number:
ID-201

Owner's Branch No.:

134

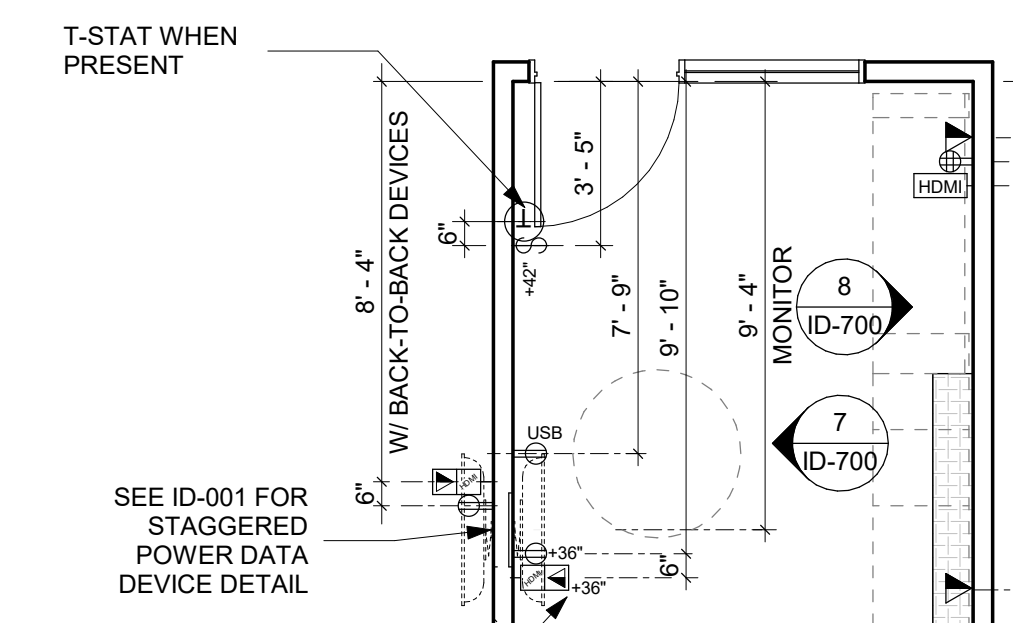


4 INTERIOR POWER & COMMUNICATION LOCATION PLAN - EAST
ID-201 SCALE: 1/4" = 1'-0"



3 INTERIOR POWER & COMMUNICATION LOCATION PLAN - WEST
ID-201 SCALE: 1/4" = 1'-0"

2 TYP. FOCUS ROOM
ID-201 SCALE: 1/4" = 1'-0"



1 TYP. OFFICE, PORTRAIT
ID-201 SCALE: 1/4" = 1'-0"



GENERAL RCP NOTES

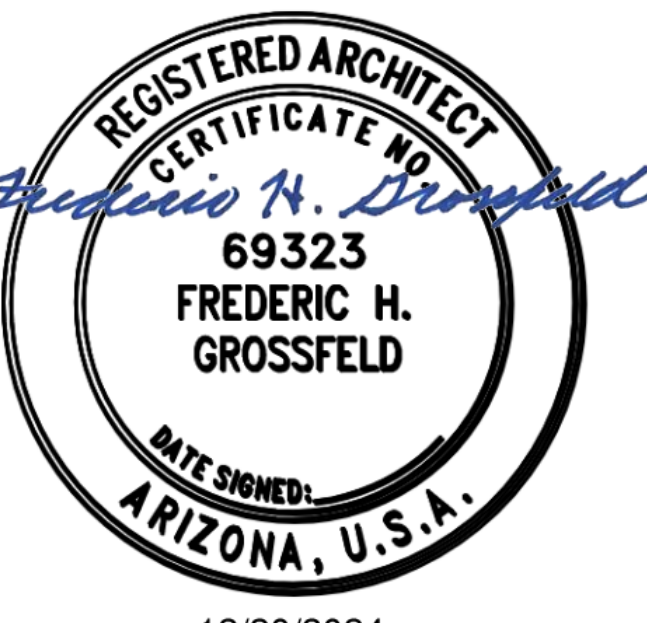
- CEILING SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS, LOCAL BUILDING CODES AND ALL OTHER APPLICABLE CODES. PROVIDE LATERAL BRACING AS REQUIRED.
- ALL CEILING SHALL BE ACT-2 AND MOUNTED AT 6'-0" AFF. UNO.
- VERIFY ALL CEILING HEIGHTS AND CEILING PLENUM CLEARANCES TO ASSURE FINISHED CEILING HEIGHTS CALLED OUT ON JACOBS DOCUMENTS. ANY DISCREPANCIES SHALL BE BROUGHT TO ARCHITECT'S ATTENTION IMMEDIATELY, PRIOR TO COMMENCEMENT OF WORK.
- ANY CONFLICTS OR DISCREPANCIES AMONG FIXTURES, FIRE AND SMOKE DETECTION DEVICES, HVAC OR OTHER CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF JACOBS FOR CLARIFICATION PRIOR TO INSTALLATION.
- ALL DIMENSIONS ARE TO CENTERLINE OF FIXTURE, UNO.
- ALL CEILING GRIDS SHALL BE CENTERED IN SPACES WITH EQUAL TILES AT OPPOSITE SIDES AS SHOWN, UNO.
- ALL CEILING MOUNTED FIXTURES SHALL BE CENTERED ON LAY-IN PANELS IN SUSPENDED CEILING AREAS AS SHOWN, UNO.
- PROVIDE ADDITIONAL BLOCKING AND/OR ANCHORING ABOVE CEILING AS REQUIRED FOR SUPPORT OF LIGHT FIXTURES.
- FIRE AND SMOKE DETECTION DEVICES AND STROBE LIGHT LOCATIONS SHALL BE COORDINATED BY CONTRACTORS AND SUBMITTED TO JACOBS FOR FINAL ALIGNMENT APPROVAL.
- BOTTOM OF PENDANT FIXTURE MOUNTING HEIGHTS:

TAG	ROOM TYPE	MOUNTING HEIGHT
⊙ A	OFFICES	5'-8" TO BOTTOM OF PENDANT
⊙ B	LOBBY ISLAND & OPEN AREA	6'-0" TO BOTTOM OF PENDANT
⊙ C	MEETING ROOM	6'-2" TO BOTTOM OF PENDANT
⊙ D	COLLABORATION ROOM	6'-0" TO BOTTOM OF PENDANT

SYMBOLS LEGEND

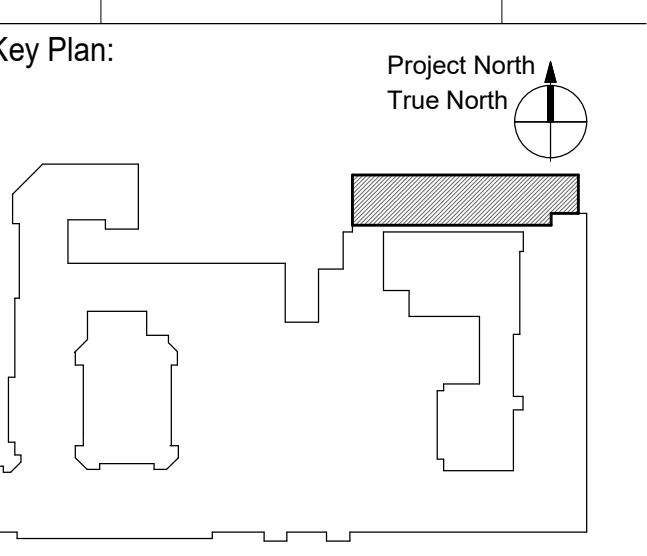
REFER TO ENGINEERING DRAWINGS

SYMBOL	DESCRIPTION
⊙ A, B, C	DECORATIVE PENDANT
⊙ R1, R2	RECESSED LED DOWNLIGHT
⊙ P	RECESSED LED WALL WASHER
—	RECESSED LINEAR LED FIXTURE
⋯	UNDER CABINET LIGHTING
H	LED WALL SCONCE
⊙	LED EDGE-LIT EXIT SIGNAGE WITH RECESSED HOUSING. SHADDED QUADRANT INDICATES ILLUMINATED FACE(S) OF SIGN. ARROWS INDICATED DIRECTION OF TRAVEL.
⊙	SPRINKLER HEAD SEE ENGINEERING DRAWINGS
⊙	UPRIGHT FRAME STANDARD SPRAY PATTERN SPRINKLER SEE ENGINEERING DRAWINGS
⊙	SUPPLY AIR DIFFUSER REFER TO ENGINEERING DRAWINGS
⊙	RETURN AIR DIFFUSER REFER TO ENGINEERING DRAWINGS
—	LINEAR AIR DIFFUSER REFER TO ENGINEERING DRAWINGS
⊙	GLASS BREAK
⊙	MOTION DETECTOR
⊙	SECURITY CAMERA
⊙	CEILING MOUNTED WIRELESS ACCESS POINT OUTLET
⊙	GFRG SEAMLESS ACCESS PANEL W/ SQUARE CORNER, BY CASTLE ACCESS PANELS & FORMS, INC. OR EQUAL, 24" X 24"
⊙	SOUND MASKING SPEAKER
⊙	COMBINATION AUDIBLE HORN / VISUAL STROBE - CLNG MOUNT
⊙	OCCUPANCY SENSOR
⊙	PHOTOELECTRIC SMOKE DETECTOR
CEILING FINISHES:	
GWB	GYPSUM WALLBOARD
ETS	EXPOSED TO STRUCTURE
ACT-1	ACOUSTICAL TILE, 4' X 4' REFER TO FINISH LEGEND
ACT-2	ACOUSTICAL TILE, 2' X 2' REFER TO FINISH LEGEND



7171 E. Paradise Lane
Suite R-120
Scottsdale, AZ 85254

Number	Description	Date
1	Issued for Permit & Construction	23 DEC 24

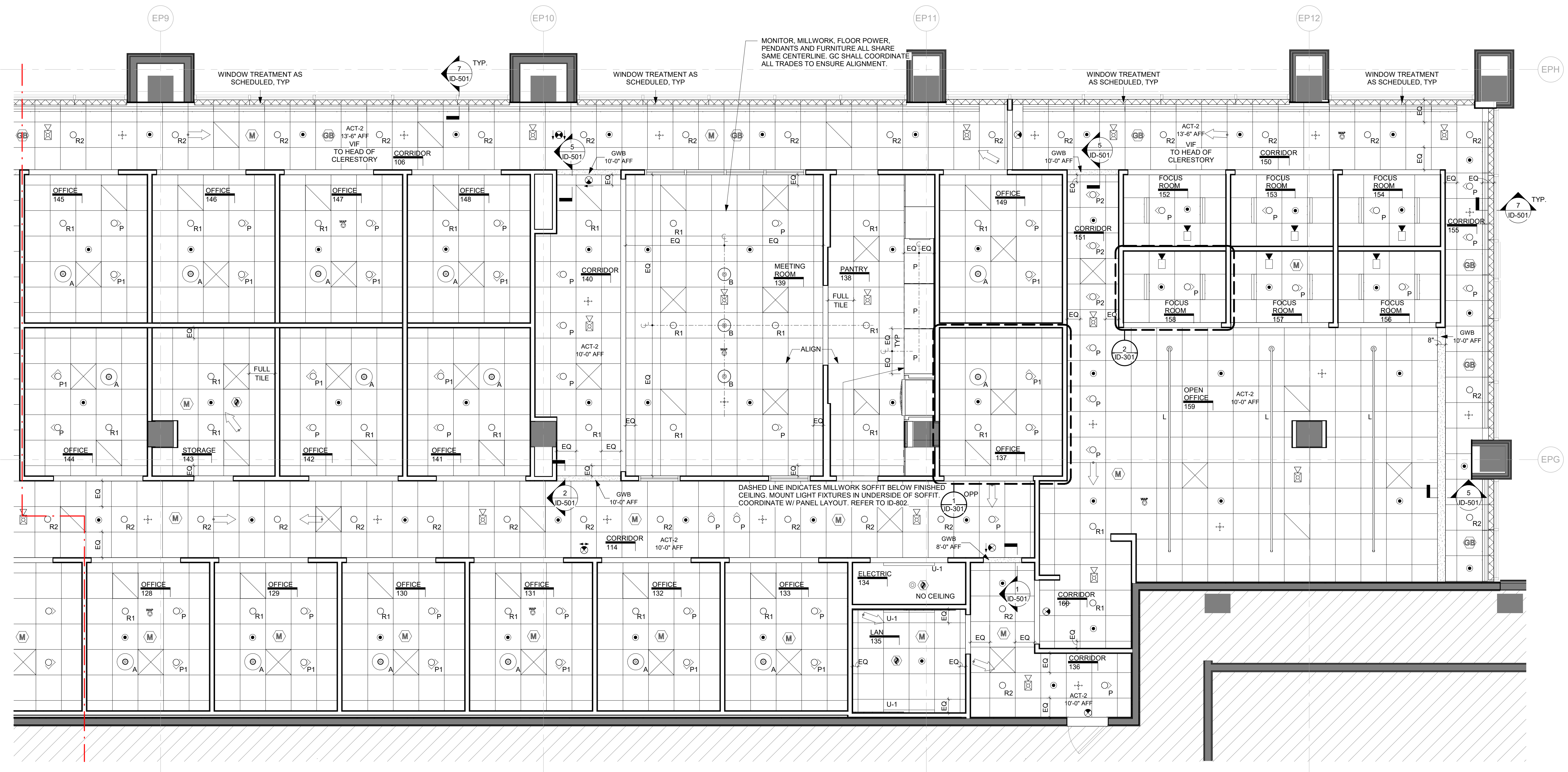


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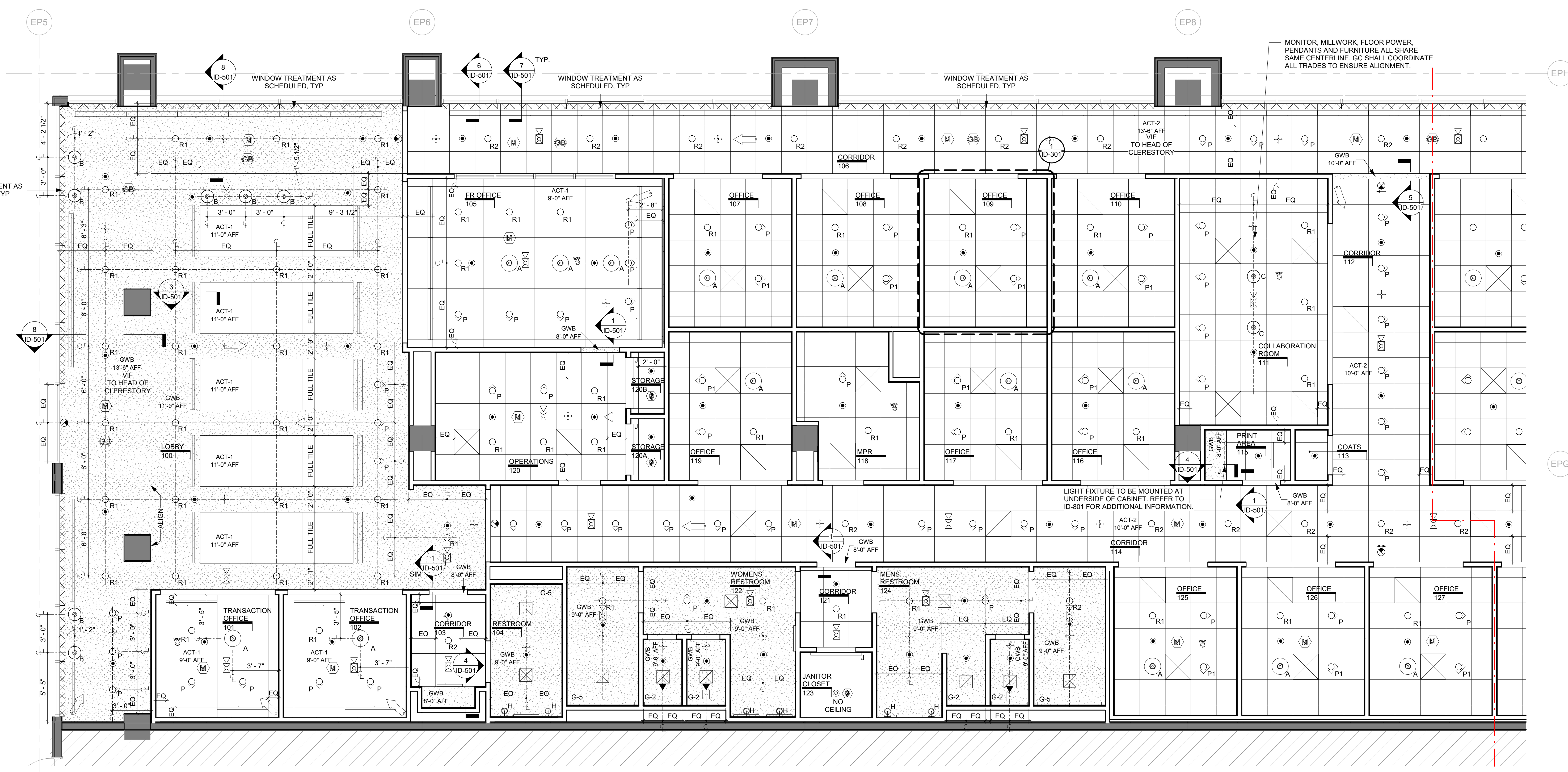
Drawing Sheet Title:
INTERIOR REFLECTED CEILING PLAN

Drawing Sheet Number:
ID-301

Owner's Branch No.:
134

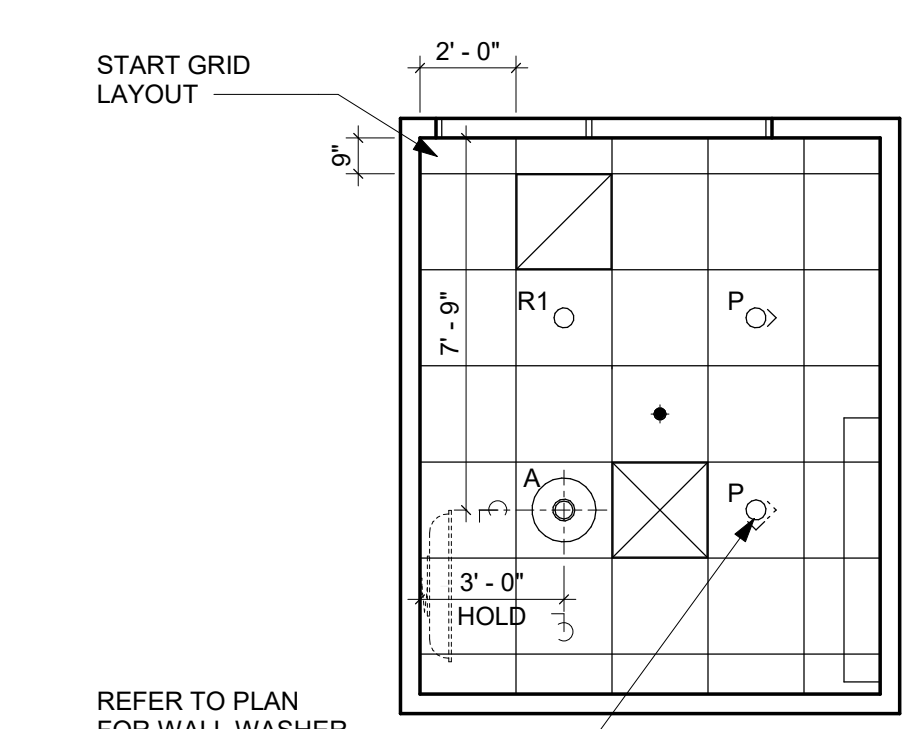


4 INTERIOR REFLECTED CEILING PLAN - EAST
ID-301 SCALE: 1/4" = 1'-0"



3 INTERIOR REFLECTED CEILING PLAN - WEST
ID-301 SCALE: 1/4" = 1'-0"

2 TYP. FOCUS ROOM
ID-301 SCALE: 1/4" = 1'-0"



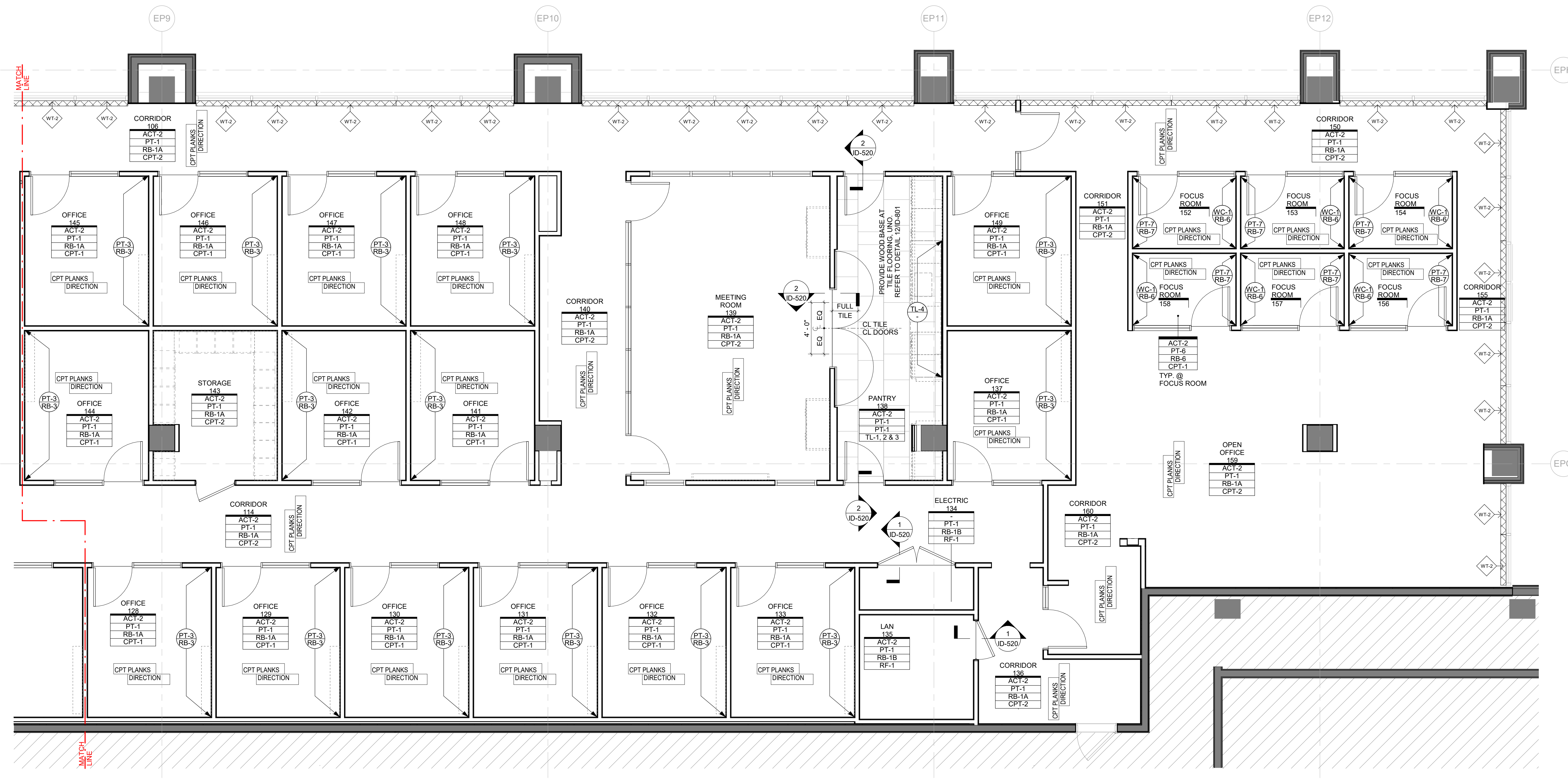
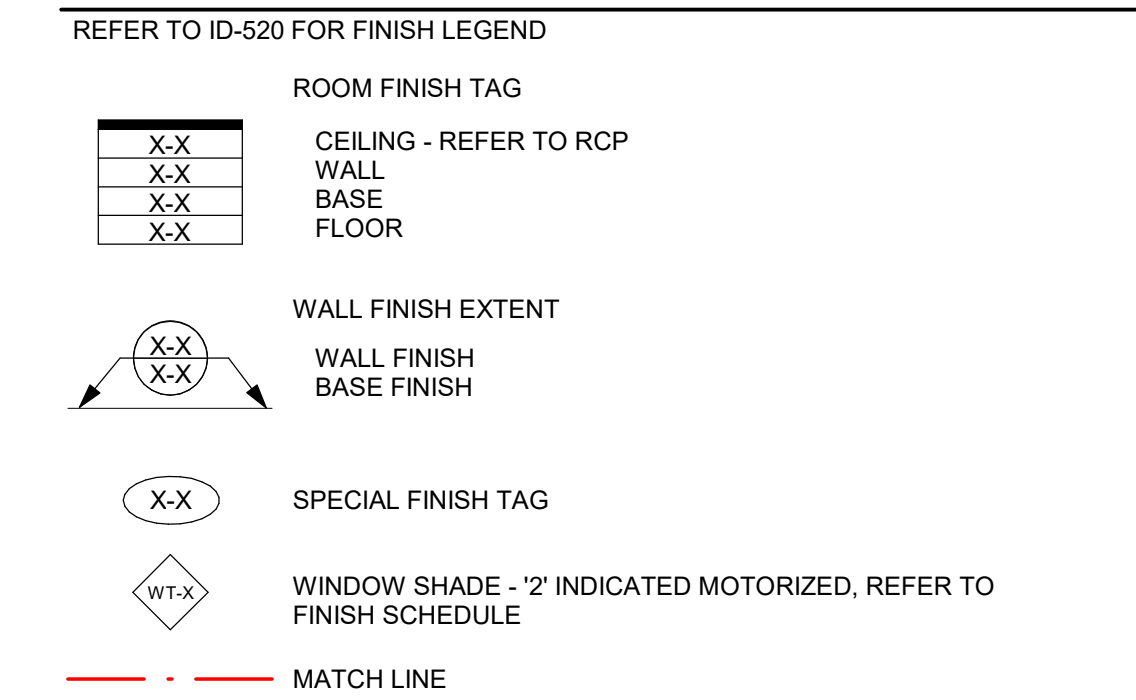
1 TYP. OFFICE, PORTRAIT
ID-301 SCALE: 1/4" = 1'-0"



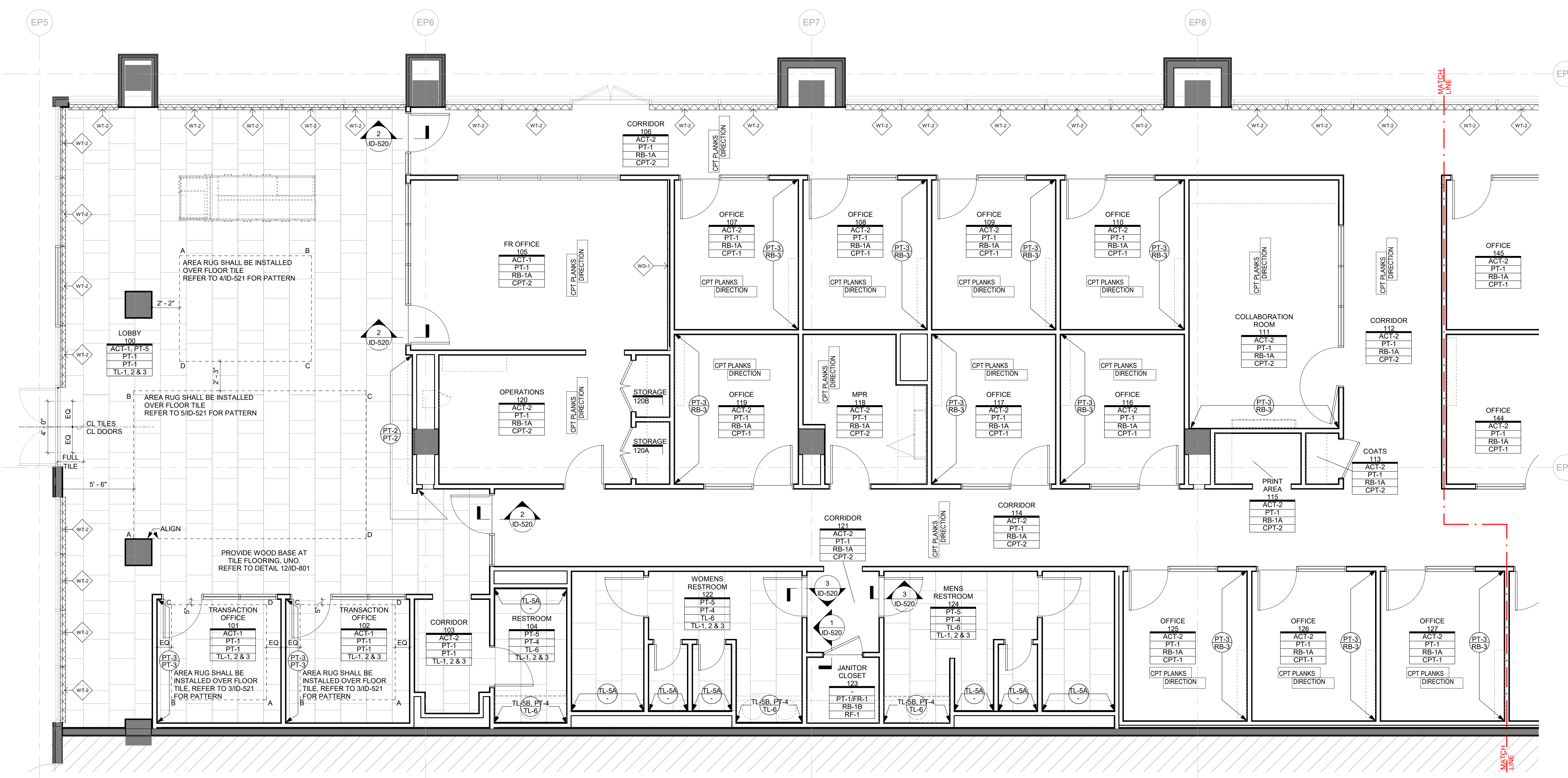
GENERAL FINISH PLAN NOTES

- 1. DEVIATION FROM SPECIFIED MATERIALS AND INSTALLATIONS SHALL NOT BE PERMITTED, UNLESS PRESENTED TO OR APPROVED BY JACOBS PRIOR TO MODIFICATION.
2. SUBMITTALS SHALL BE SENT ELECTRONICALLY, WITH THE EXCEPTION OF PAINT AND WOOD VENEER SAMPLES.
3. ALL CARPET SHALL BE SAME EYE LOT WITHIN THEIR OWN TYPE.
4. FLOOR MATERIAL TRANSITIONS SHALL OCCUR UNDER THE CENTERLINE OF DOOR IN CLOSED POSITION, UNO.
5. INSTALLED FLOORING FINISHES SHALL BE PROTECTED WITH BROWN PAPER OR PLASTIC SHEETING FOR DURATION OF CONSTRUCTION.
6. NEW WALL BASE THROUGHOUT SHALL BE RB-1A, UNO.
7. CONTINUOUS ADHESION IS REQUIRED BETWEEN FINISHED FACE OF PARTITION AND WALL BASE, INSTALLED BASE SHALL BE SMOOTH WITH NO REPLEAS. SEAMS IN RESILIENT BASE AT OUTSIDE CORNERS ARE NOT PERMITTED.
8. FINISHING AT GWS SHALL BE ONE COAT OF INTERIOR LATEX BASE PRIMER AND TWO COATS OF INTERIOR LATEX BASE PAINT. PRIMER COAT SHALL BE TINTED SIMILAR TO FINISH COAT COLOR. FINISH SHALL BE MATTE, UNO.
9. TOP EDGES OF DISSIMILAR BASE MATERIALS SHALL ALIGN.
10. FINISHING AT DOOR FRAMES, WOOD RUNNING TRIMS AND METAL SURFACES SHALL BE ONE COAT ALKOYD BASE PRIMER AND TWO COATS ALKOYD BASE PAINT. PRIMER COAT SHALL BE TINTED SIMILAR TO FINISH COAT. FINISH SHALL BE SEMI-GLOSS, UNO. PROVIDE ADDITIONAL COATS AS REQUIRED TO CONCEAL EXISTING FINISHES OR BASE MATERIAL.
11. GYPSUM BOARD CONSTRUCTION THROUGHOUT SHALL BE FINISHED PT-1, UNO.
12. CLOSETS SHALL BE FINISHED TO MATCH ADJACENT SPACE, UNO.
13. GYPSUM BOARD CEILINGS, FLUSH CEILING TRANSITIONS AND SOFFITS THROUGHOUT SHALL BE PAINTED PT-5, FLAT FINISH, UNO.
14. PAINTED WOOD DOORS THROUGHOUT SHALL BE PAINTED TO MATCH ADJACENT PARTITION COLOR AND FINISH, UNO.
15. EXISTING HOLLOW METAL DOORS AND FRAMES SHALL BE PAINTED TO MATCH ADJACENT WALL FINISH, UNO.
16. REFER TO REFLECTED CEILING PLAN FOR CEILING SPECIFICATIONS AND EXTENTS.
17. FUNCTIONAL CABINET HARDWARE SHALL BE AS FOLLOWS, UNO:
18. CABINETS SHALL BE INSTALLED WITH CONCEALED HANGING METHODS.

FINISH PLAN SYMBOLS LEGEND



2 INTERIOR FINISH PLAN - EAST
ID-401 SCALE: 1/4" = 1'-0"



1 INTERIOR FINISH PLAN - WEST
ID-401 SCALE: 1/4" = 1'-0"

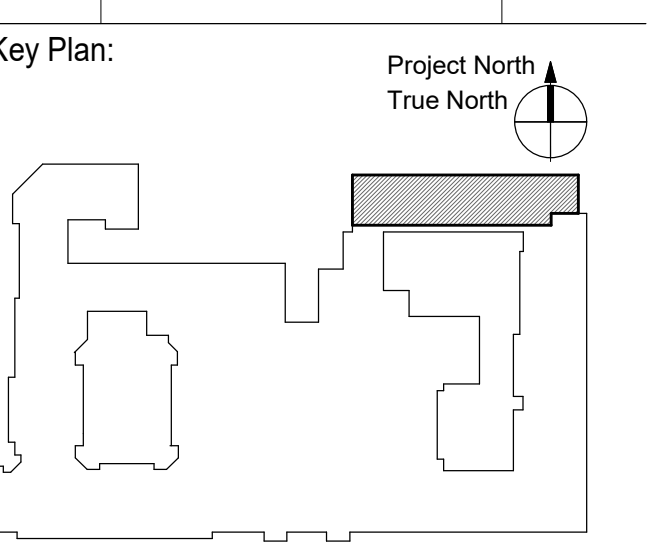


12/20/2024



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Scottsdale, AZ 85254

Table with columns: Number, Description, Date. Includes entry for 'Issued for Permit & Construction' dated 23 DEC 24.



Project No.: K2812554 R06
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Drawing Sheet Title:
INTERIOR FINISH PLAN

Drawing Sheet Number:
ID-401

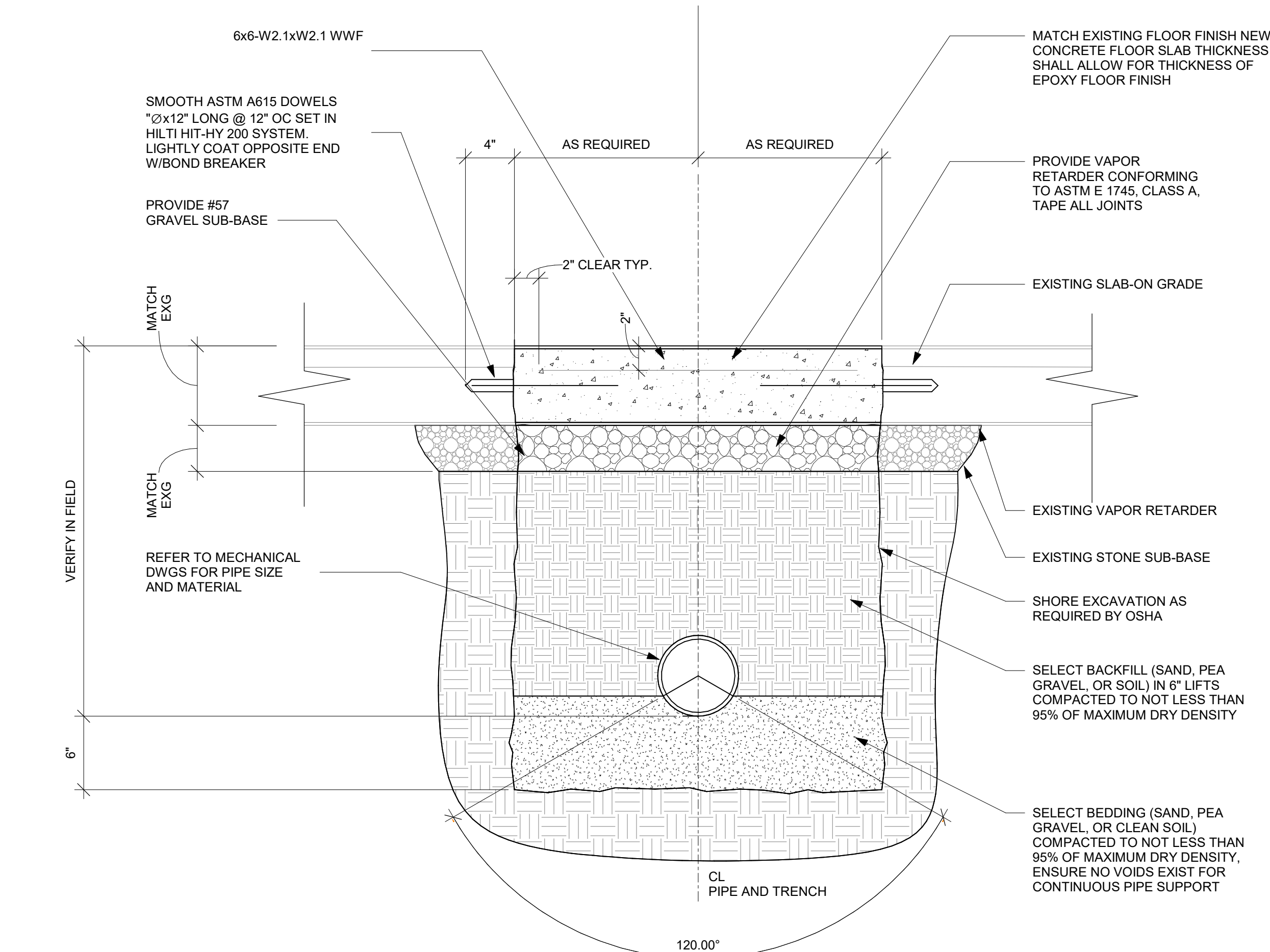
Owner's Branch No.:
134

PARTITION TYPE LEGEND

Table with columns: SURFACE CODE, STUD SIZE, EXTENT OF GYPSUM WALL BOARD, FIRE RATING, PERFORMANCE CODE, and STUD SIZE SPECIFICATION. Includes notes on surface codes (1-3, X), stud sizes (A-M), and performance requirements.

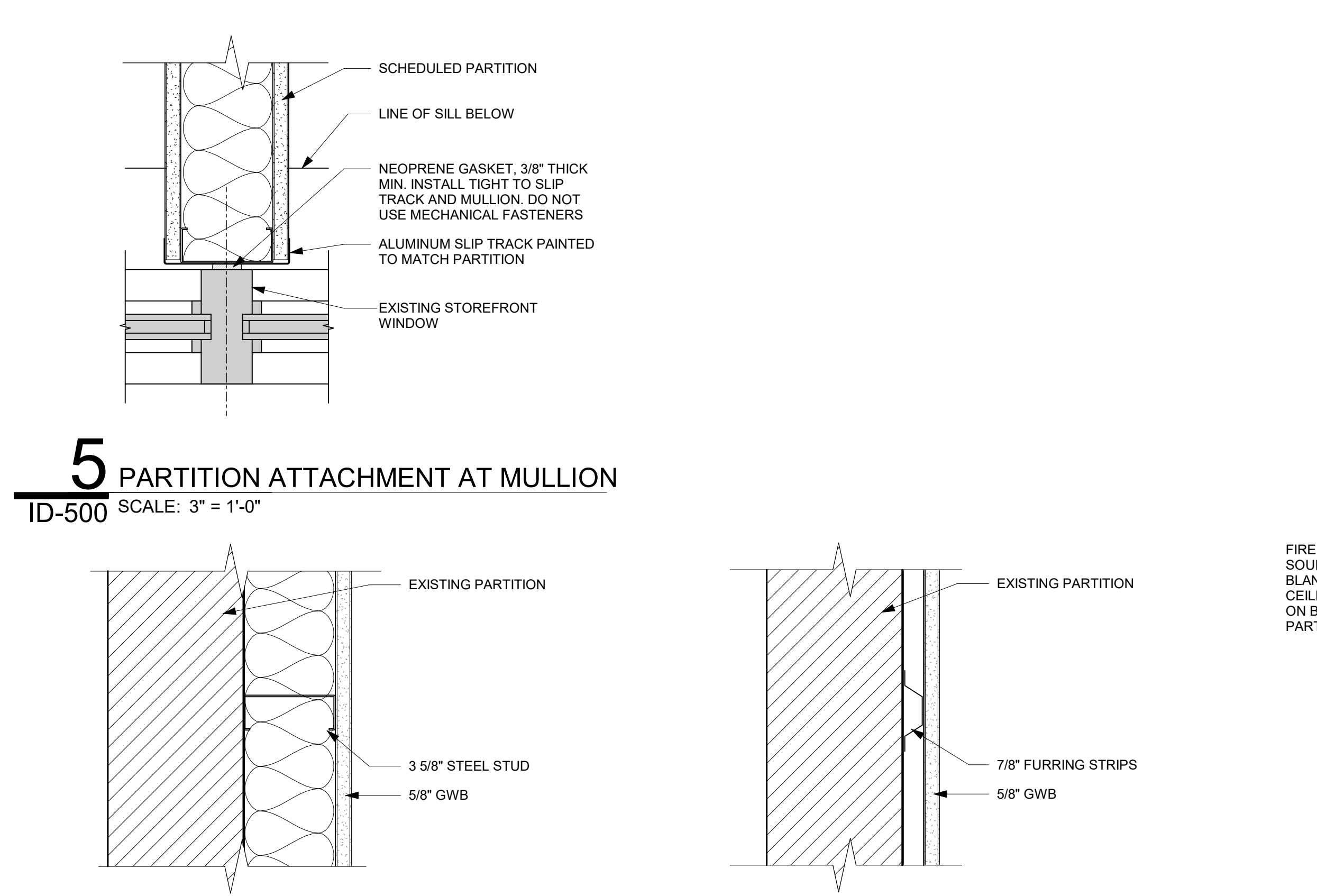
PARTITION TYPE NOTES

- 1. PARTITION TYPES ARE DRAWN IN PLAN VIEW AND ARE KEYS TO THE FLOOR PLANS. REFER TO PARTITION TYPE LEGEND.
2. THE PARTITION TYPE KEY LISTS THE MATERIAL COMPONENTS IN THE ORDER IN WHICH THEY OCCUR IN A PARTITION. PLEASE NOTE THAT THE KEY WILL THEREFORE DENOTE THE ORIENTATION OF ASYMMETRICAL PARTITIONS.
3. TYPICAL PARTITION SECTION DETAILS SHOW GENERIC CONDITIONS AT THE BASE, CEILING, AND/OR UNDERSIDE OF STRUCTURE OF PARTITIONS, AND APPLY TO MORE THAN ONE PARTITION TYPE. BECAUSE THEIR DRAWING TITLES ARE SELF-EXPLANATORY, THESE TYPICAL SECTION DETAILS ARE NOT ORIGINALLY KEYS TO THE OTHER DRAWINGS.
4. ALL FIRE & SMOKE RATED PARTITIONS MUST EXTEND TO THE UNDERSIDE OF DECK AND BE FIRE SEALED AROUND THE ENTIRE PERIMETER. REFER TO THE LIFE SAFETY PLAN.
5. ALL PARTITIONS SHALL RECEIVE ACOUSTICAL SOUND BATT INSULATION. ACOUSTIC BATT INSULATION SHALL CONTINUE BEHIND ALL ELECTRICAL AND TELEDATA DEVICES/BOXES AND SHALL EXTEND FULL HEIGHT OF PARTITION. FILL ALL PENETRATIONS MADE FOR ROUTING OF CABLING, ETC.
6. PARTITION ASSEMBLIES SHALL INCLUDE THE FOLLOWING:
A. STEEL STUD FRAMING: METAL STUD FRAMING SHALL BE AS FOLLOWS, UNO
1. STUD SIZE: PROVIDE STUDS SIZES INDICATED. REFER TO PARTITION TYPE LEGEND FOR STUD SIZES.
2. HEIGHT: EXCEPT FOR TYPE H, R AND Z FURRING ALL STUDS SHALL BE FULL HEIGHT FROM FLOOR TO UNDERSIDE OF FLOOR OR ROOF ABOVE. STUDS SHALL BE CUT SHORT AT HEAD TRACK/RUNNER TO ALLOW FOR DIFFERENTIAL LIVE LOAD DEFLECTION AS REQUIRED HEREIN.
A. TYPE H, R AND Z FURRING SHALL EXTEND FROM FLOOR TO SIX-INCHES ABOVE FINISHED CEILING, OR IF THERE IS NO CEILING, TO STRUCTURAL DECK ABOVE.
3. SPACING: ALL STUDS SHALL BE SPACED AS REQUIRED TO SUPPORT APPLIED FINISHES AND LOADS, BUT NOT MORE THAN 16" ON CENTER. TYPE "X" STUDS SHALL BE SPACED AT 24" ON CENTER.
4. DOOR AND BORROWED LIGHT OPENINGS: PROVIDE FULL HEIGHT, UNPUNCHED, DOUBLE STUDS AT ALL JAMB AND HEAD CONDITIONS.
5. TRACKS/RUNNERS: PROVIDE MINIMUM 20 GAUGE TRACKS/RUNNERS TO MATCH STUD SIZE UNO. AT HEAD PROVIDE TRACKS/RUNNERS WITH VERTICAL LEGS OF SUFFICIENT HEIGHT TO ACCOMMODATE DIFFERENTIAL LIVE LOAD DEFLECTION DIMENSION BETWEEN FLOORS.
A. PARTITIONS WITHIN 15 FEET OF A COLUMN LINE: ALLOW FOR 1/2" LIVE LOAD DEFLECTION.
B. PARTITIONS MORE THAN 15 FEET FROM A COLUMN LINE: ALLOW FOR 1/4" LIVE LOAD DEFLECTION.
C. PARTITIONS MORE THAN 30 FEET FROM A COLUMN LINE: ALLOW FOR 1/4" LIVE LOAD DEFLECTION.
6. AT PARTITIONS EXTENDING OVER ROUGH OPENINGS (DOORS, SCHEDULED LIGHTS AND THE LIKE), IN EXCESS OF 6'-4" WIDE PROVIDE LIGHT GAUGE METAL FRAMING (ITEM 5040C) OF DEPTH TO MATCH ABUTTING PARTITIONS. PROVIDE CONCEALED DIAGONAL BRACING TO STRUCTURE ABOVE AT 4'-0" OC CONFIGURED TO CLEAR STRUCTURAL, MECHANICAL AND ELECTRICAL SYSTEMS.
7. AT PARTITIONS FRAMED WITH STUD SIZE "C" (S1), PROVIDE DIAGONAL BRACING AT 4'-0" OC EXTENDING FROM 12" ABOVE CEILING TO DECK ABOVE AT 12/12 SLOPE. CONFIGURED TO CLEAR STRUCTURAL, MECHANICAL AND ELECTRICAL SYSTEMS.
8. PROVIDE BLOCKING IN PARTITIONS FOR ALL SUPPORTED ATTACHED ITEMS/SYSTEMS.
A. PROVIDE WOOD BLOCKING FROM 2'-0" ABOVE FLOOR TO 4'-0" ABOVE FLOOR IN ALL ACCESSIBLE HANDICAP TOILET STALLS.
B. PROVIDE WOOD BLOCKING REQUIRED FOR WALL MOUNTED OWNER PROVIDED EQUIPMENT. COORDINATE WITH OWNER FOR TYPE, SIZE AND LOCATION OF BLOCKING REQUIRED.
9. WHERE FRAMING CONNECTS TO CEMENTITIOUS FIREPROOFING COATED STRUCTURAL STEEL DECK PROVIDE Z-FURRING FASTENED TO STRUCTURAL STEEL DECK PRIOR TO APPLICATION OF FIREPROOFING. Z-FURRING SHALL MATCH FIREPROOFING THICKNESS AND SHALL BE CONFIGURED FOR PROPER SUPPORT ATTACHMENT OF FRAMING. MINIMUM GAUGE AND SPACING SHALL MATCH FRAMING REQUIREMENTS.
10. WHERE A SINGLE LAYER PARTITION TYPE ALIGNS WITH A MULTILAYER LAYER PARTITION TYPE, ADJUST FRAMING LOCATION TO ALIGN FINISHED FACES OF WALL BOARD ACROSS PARTITION TYPES UNLESS REQUIRED OTHERWISE.
11. FRAMING IS INDICATED DIAGRAMMATICALLY TYPICALLY IN THE DOCUMENTS. IT IS NOT THE INTENT OF THE DOCUMENTS TO DELINEATE EVERY CONDITION NOR MEMBER SIZE REQUIRED. THE CONTRACTOR SHALL PROVIDE CONSTRUCTION OF FRAMING AS REQUIRED BY THE DOCUMENTS TO MAINTAIN THE SHAPES AND PROFILES OF SURFACES/MATERIALS REQUIRED, COORDINATE WITH THE BUILDING STRUCTURE, AND SUPPORT LOADS REQUIRED.
12. FORM RADIUS/CURVED WORK TO TRUE RADIUS WITHOUT SEGMENTATION, FACETING, BUCKLING, WARPING OR OTHERWISE ALTERING MEMBER DIMENSION OR APPEARANCE.
13. PROVIDE FRAMING LOCATED TO CLEAR CEILING/MOUNTED DEVICES/EQUIPMENT. COORDINATE FRAMING WITH DEVICES/EQUIPMENT REQUIREMENTS FOR CLEARANCES AND SUPPORT. DEVICE SHALL TAKE PRECEDENCE.
14. WHERE UTILITIES SUCH AS ELECTRICAL, TELEDATA, PLUMBING AND THE LIKE CAN NOT BE CONCEALED ABOVE CEILING PROVIDE PUNCHED STUDS CONFIGURED TO PERMIT UTILITY DISTRIBUTION WITHIN THE FRAMING, WHERE SUCH PUNCHES ARE PROVIDED THEY SHALL BE ALIGNED WITH UTILITIES TO PERMIT STRAIGHT UTILITY RUNS WITH MINIMAL OFFSETS. COORDINATE WITH UTILITIES FOR SIZE, NUMBER AND LOCATIONS OF PUNCHES REQUIRED.
B. GYPSUM BOARD: GYPSUM BOARD SHALL BE AS FOLLOWS, UNO
1. THICKNESS: 5/8" UNLESS REQUIRED OTHERWISE.
2. HEIGHT: ALL GYPSUM BOARD SHALL EXTEND 6" ABOVE CEILING HEIGHT UNO.
3. BOARD TYPE: PROVIDE FIRE-RESISTIVE CORE GYPSUM BOARD FOR ALL PARTITION TYPES EXCEPT AS NOTED HEREIN:
A. SHAFTWALL LINER BOARD: PROVIDE AT ALL SHAFTWALL (TYPE S) PARTITIONS ON THE SHAFT SIDE OF THE PARTITION.
B. HIGH-STRENGTH CEILING BOARD: PROVIDE FOR ALL CEILING/OFFIT BOARD.
C. BACKER BOARD: PROVIDE AS THE FIRST LAYER (NOT CEILING) AT ALL MULTILAYER APPLICATIONS.
D. MOISTURE RESISTANT BOARD: PROVIDE AS OUTER LAYER ON PARTITIONS WHERE FINISH IS PAINT IN TOILET ROOMS. DO NOT USE MOISTURE RESISTANT BOARD ON CEILING.
E. HIGH-IMPACT RESISTANT BOARD: PROVIDE AS OUTER LAYER INDICATED.
F. CEMENTITIOUS BACKERBOARD: PROVIDE AS SUBSTRATE FOR CEILING WALL. THE NOTE GYPSUM PLASTER BASE, MOISTURE RESISTANT, ABUSE RESISTANT, IMPACT RESISTANT AND COMBINATION H-ABUSE AND HI-IMPACT RESISTANT BOARD SHALL BE SUBSTITUTED FOR FACE OUTER LAYER OF GYPSUM BOARD IN ACCORDANCE WITH REQUIREMENTS HEREIN AND FINISH SYSTEMS REQUIRED. REFER TO FINISH INFORMATION (PLANS/SCHEDULE) FOR ADDITIONAL REQUIREMENTS.
4. MULTILAYER GYPSUM BOARD: PROVIDE ALTERNATING ORIENTATION VERTICAL/HORIZONTAL OF GYPSUM BOARD LAYERS IN MULTILAYER PARTITION TYPES. STAGGER JOINTS IN LAYERS EACH WAY. SECURE EACH LAYER TO FRAMING WITH SCREWS.
C. FIRE-RESISTIVE RATED PARTITIONS: REFER TO PLANS FOR DEFINITION OF SCOPE OF FIRE-RESISTIVE PARTITIONS. ALL FIRE-RESISTIVE PARTITIONS SHALL CONFORM TO THE FOLLOWING:
1. WHERE AN UNDERWRITERS LABORATORY OR OTHER TESTING AGENCY NUMBER IS INDICATED ON THE PARTITION TYPE DETAIL, THE PARTITION SHALL BE CONSTRUCTED IN STRICT ACCORDANCE WITH THE DICTATES OF THE TESTED ASSEMBLY.
2. OVERSIZE "CUT-OUTS" FOR ELECTRICAL DEVICE BOXES WILL NOT BE PERMITTED.
3. PROVIDE FIRE-RESISTIVE SYSTEM AT ALL PENETRATIONS OF FIRE-RESISTIVE RATED PARTITIONS AND AT ALL OTHER LOCATIONS NECESSARY TO MAINTAIN THE FIRE RESISTIVE INTEGRITY OF THE ASSEMBLY.
4. PROVIDE FIRE RESISTIVE JOINT SYSTEM AT TOP OF ALL FIRE-RESISTIVE RATED PARTITIONS AT DECK ABOVE AND AT CONTROL JOINTS.
5. WHERE FIRE RATED PARTITION INTERSECTS NON-RATED PARTITION PARTITION SHALL EXTEND THROUGH NON-RATED PARTITIONS, WHERE TWO FIRE RATED PARTITIONS INTERSECT GREATER FIRE RESISTANCE RATING SHALL EXTEND THROUGH LESSER FIRE RATED PARTITION.
D. GYPSUM BOARD CONTROL JOINT REQUIREMENTS: PROVIDE CONTROL JOINTS IN HORIZONTAL AND VERTICAL GYPSUM BOARD SURFACES IN ACCORDANCE WITH THE REQUIREMENTS OF THE SPECIFICATIONS AND AS NOTED BELOW. REFER TO ELEVATIONS AND PLANS FOR JOINT LOCATIONS, OR, WHERE NOT INDICATED, PROVIDE CONTROL JOINTS AS FOLLOWS:
1. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL OF CONTROL JOINT LOCATIONS PRIOR TO INSTALLATION OF FRAMING.
2. PROVIDE CONTROL JOINTS AT 30" MAXIMUM OC. PROVIDE CONTROL JOINTS WHERE GYPSUM BOARD ABUTS DISSIMILAR MATERIALS. CONTROL JOINTS AT DISSIMILAR MATERIALS SHALL BE L BEADED/EGGE TRIM AND SEALANT AS SPECIFIED.
3. WHERE CONTROL JOINTS ARE REQUIRED IN A SURFACE THEY SHALL BE CONFIGURED TO COORDINATE WITH THE BUILDING GEOMETRY/LAYOUT. PROVIDE ADDITIONAL CONTROL JOINTS AT EACH END OF OPENINGS OVER 8" IN ANY DIMENSION.
4. PROVIDE CONTROL JOINTS AT THE EDGE OF HORIZONTAL GYPSUM BOARD WHERE IT ABUTS VERTICAL GYPSUM BOARD SURFACES BELOW.
5. PROVIDE CONTROL JOINTS IN GYPSUM BOARD WHERE CONTROL JOINTS ARE REQUIRED IN FINISHES OR WHERE CONTROL JOINTS OCCUR IN SUBSTRATES.
6. PROVIDE CONTROL JOINTS IN ACCORDANCE WITH THE REQUIREMENTS ABOVE AT HORIZONTAL WALL BOARD CEILING/SURFACE INTERSECTIONS.
7. PROVIDE CUSTOM FORMED RADIUS CONTROL JOINT TRIM AT RADIUS WORK. TRIM SHALL BE EXTRUDED ALUMINUM.
E. ACOUSTICAL PERFORMANCE PARTITIONS: REFER TO ARCHITECTURAL FLOOR PLANS FOR DEFINITION OF SCORE OR ACOUSTICAL PERFORMANCE PARTITIONS. ANY PARTITION SYMBOLS SHOWN WITH NOTE "A" SHALL BE BY DEFINITION AN ACOUSTICAL PERFORMANCE PARTITION. ALL ACOUSTICAL PERFORMANCE PARTITIONS SHALL CONFORM TO THE FOLLOWING:
1. JOINTS IN GYPSUM BOARD SHALL BE TAPED AND FINISHED AS REQUIRED BELOW EVEN IN CONCEALED LOCATIONS SUCH AS ABOVE SUSPENDED CEILINGS.
2. ELECTRICAL DEVICES/BOXES: BOXES FACING OPPOSITE SIDES OF THE PARTITION SHALL NOT BE LOCATED BACK TO BACK OR BE LOCATED WITHIN THE SAME CAVITY BETWEEN STUDS.
3. ACOUSTICAL SEALANT: PROVIDE ACOUSTICAL SEALANT, IN ACCORDANCE WITH SECTION 079200 AND AS FOLLOWS:
A. CONTINUOUSLY AROUND PENETRATIONS AT OUTER LAYER OF WALL BOARD AT EACH FACE.
B. CONTINUOUSLY BETWEEN CEILING AND OUTER LAYER OF GYPSUM BOARD AT EACH FACE.
C. CONTINUOUSLY BETWEEN TOP OF OUTER LAYER OF GYPSUM BOARD AND DECK ABOVE AT EACH FACE.
D. CONTINUOUSLY UNDER BASE RUNNER TRACKS.
ACOUSTICAL INSULATION: PROVIDE ACOUSTICAL INSULATION, AS FOLLOWS:
A. BETWEEN STUDS FOR FULL DEPTH AND HEIGHT OF PARTITION.
B. AT TOP OF PARTITION TO FILL THE VOIDS AT METAL DECK INTERFACE. NOTE, IF PARTITION IS ALSO A FIRE RESISTIVE RATED PARTITION FOLLOW NOTES HEREIN.
C. ACOUSTICAL INSULATION IS NOT TYPICALLY SHOWN IN THE DRAWINGS.
F. TRIM: PROVIDE METAL TRIM SCREWED TO FRAMING AT ALL EXPOSED GYPSUM BOARD EDGES OR CORNERS EXCEPT WHERE CEMENTITIOUS BACKERBOARD IS REQUIRED. WHERE RADIUS TRIM IS REQUIRED PROVIDE CUSTOM FORMED EXTRUDED ALUMINUM TRIM. WHERE CEMENTITIOUS BACKERBOARD IS REQUIRED PROVIDE PLASTIC TRIM, NO PAPER OR COMBINATION PAPER/METAL OR PAPER/METAL. TRIM SHALL BE PERMITTED/ACCEPTED.
G. FINISH: PROVIDE LEVEL 4 FINISH AT ALL EXPOSED GYPSUM BOARD SURFACES EXTENDING TO NOT LESS THAN 4" ABOVE FINISHED CEILING, UNO.
1. PROVIDE LEVEL 1 FINISH AT SURFACES ABOVE CEILING, EXCEPT FIRE RESISTIVE RATED PARTITIONS.
2. PROVIDE LEVEL 2 IN MECHANICAL AND ELECTRICAL TYPE ROOMS.
3. PROVIDE LEVEL 3 FINISH AT SURFACES OF FIRE RESISTANCE RATED PARTITIONS ABOVE CEILING.
H. TYPICAL PARTITION DETAILS: DETAILS DO NOT INDICATE EVERY COMBINATION OF MATERIALS REQUIRED. REFER TO FLOOR PLAN INDICATIONS FOR PARTITION TYPES REQUIRED.
J. GYPSUM BOARD AT EXTERIOR WALL FRAMING: PROVIDE GYPSUM BOARD AT INTERIOR FACE OF ALL EXISTING EXTERIOR WALL FRAMING EXPOSED TO VIEW OR WHERE REQUIRED FOR ACOUSTICAL OR FIRE RESISTIVE REQUIREMENTS. GYPSUM BOARD SHALL CONFORM TO THE REQUIREMENTS HEREIN.
K. CLEANING: CLEAN INSIDE OF ALL STUD CAVITIES BEFORE ENCLOSING WALL.
L. PLYWOOD BACK BOARDS: PROVIDE 4"x8"x3/4" FIRE-RESISTANT PLYWOOD BACK BOARDS TO LINE ROOM IN TELECOM/DATA ROOMS, AND ELECTRICAL CLOSETS. BACKBOARD SHALL BE MOUNTED VERTICALLY, ABOVE FLOOR, TIGHT TO PARTITION FACE, WHERE MOUNTED ON MASONRY PARTITION. PAINT FACE OF MASONRY WITH HIGH PERFORMANCE INTERIOR COATING TO REDUCE MOISTURE TRANSMISSION PAINT FACE AND EDGES FLAT BLACK.



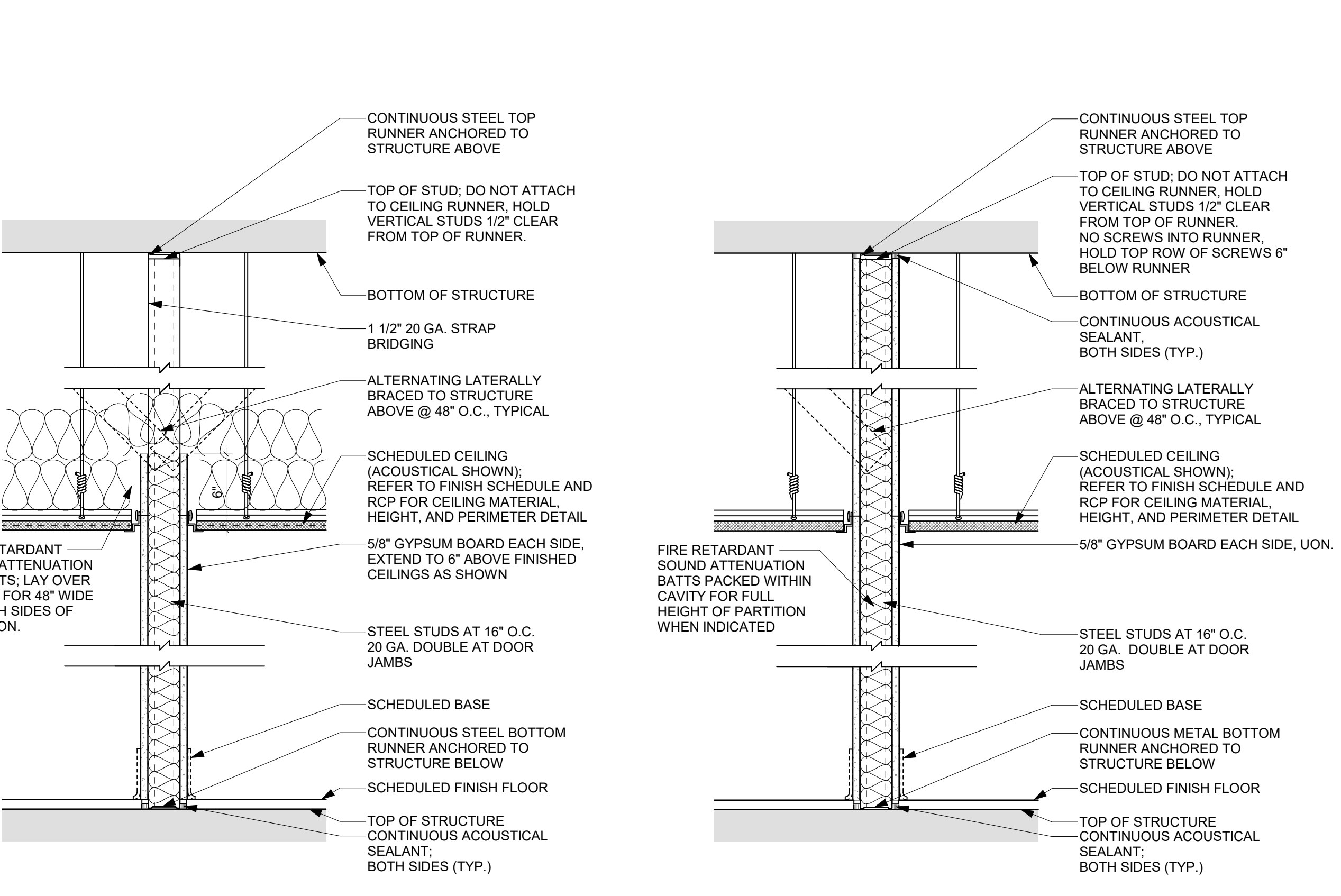
7 TYPICAL SLAB REPAIR DETAIL
ID-500 SCALE: 1 1/2" = 1'-0"

6 2-HOUR FIRE RATED PTN W/ BARRIER MESH
ID-500 SCALE: 3" = 1'-0"



4 EXIST. PTN W/FURRING
ID-500 SCALE: 3" = 1'-0"

3 EXIST. PTN W/FURRING
ID-500 SCALE: 3" = 1'-0"



2 TYPICAL 'L' PARTITION - 6" ABOVE CEILING
ID-500 SCALE: 1 1/2" = 1'-0"

1 TYPICAL 'I' PARTITION - FULL HEIGHT
ID-500 SCALE: 1 1/2" = 1'-0"



Project Title:
Fidelity Real Estate Company
245 Summer Street
Boston, MA 20110

7171 E. Paradise Lane
Suite R-120
Scottsdale, AZ 85254

Table with columns: Number, Description, Date. Includes entry for 'Issued for Permit & Construction' dated 23 DEC 24.

Key Plan: True North

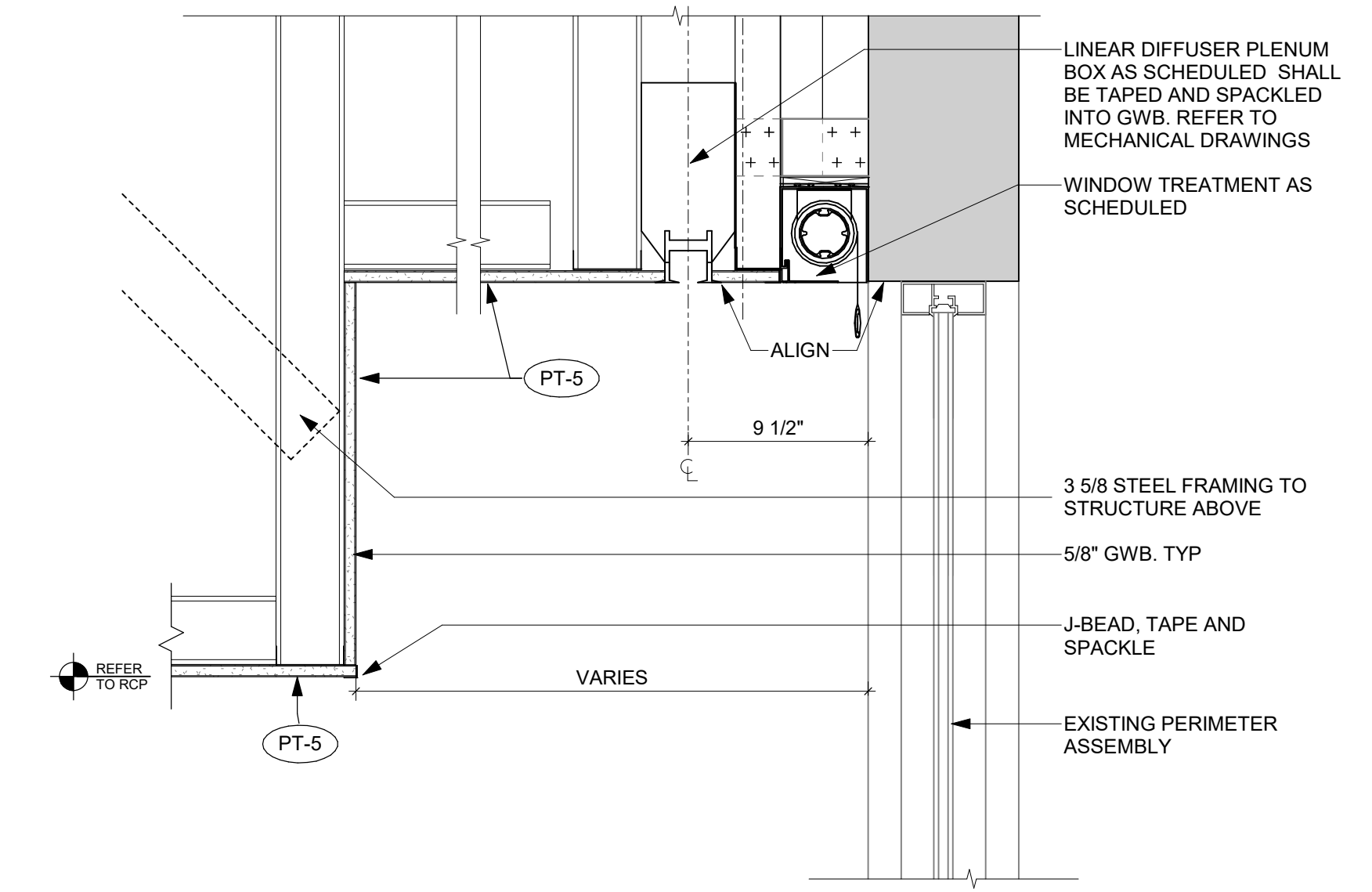
Project No.: K2812554 R06
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Drawing Sheet Title:
INTERIOR PARTITION DETAILS

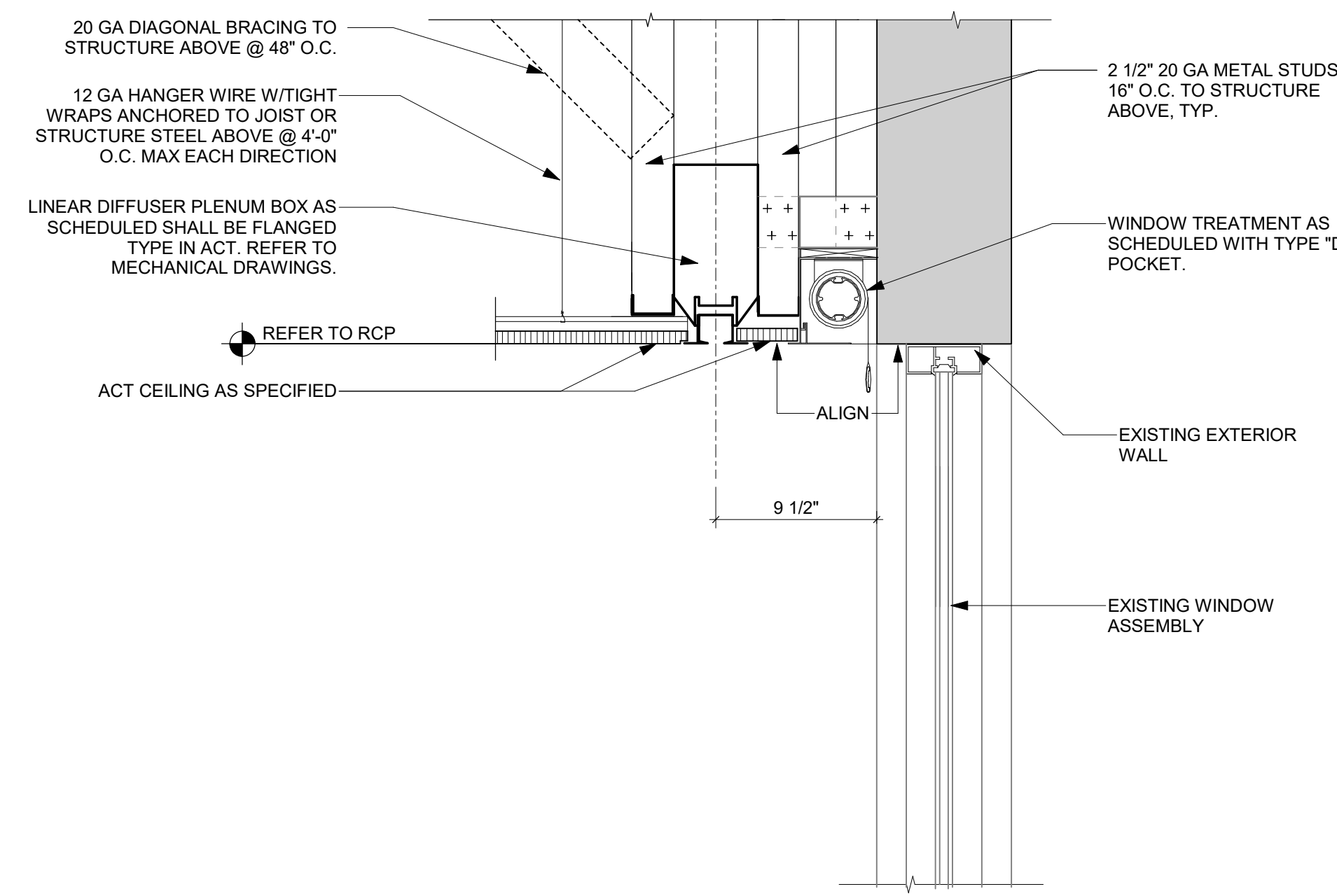
Drawing Sheet Number:
ID-500

Owner's Branch No.:
134

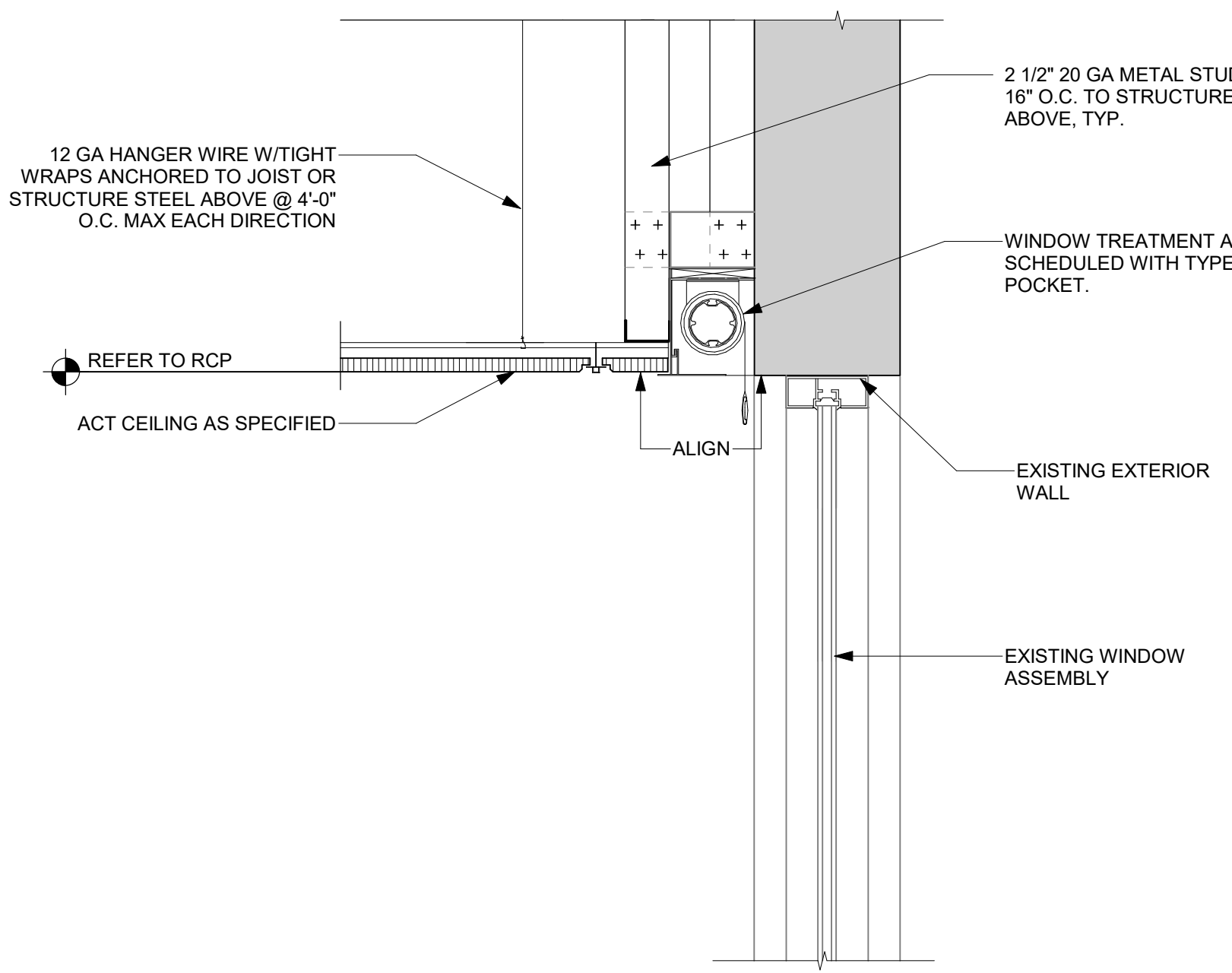
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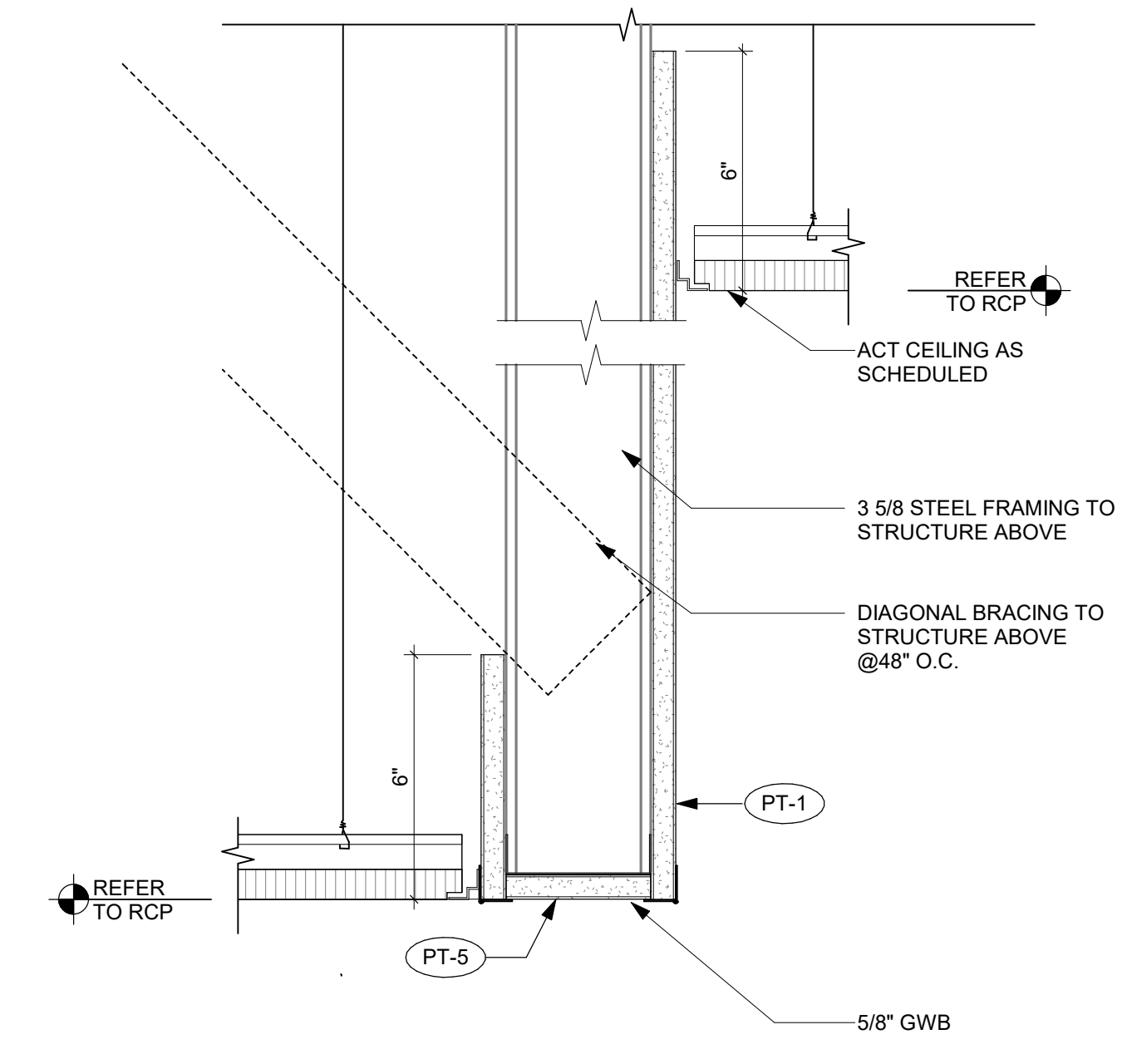
8 PERIMETER DETAIL @ LOBBY
ID-501 SCALE: 1 1/2" = 1'-0"



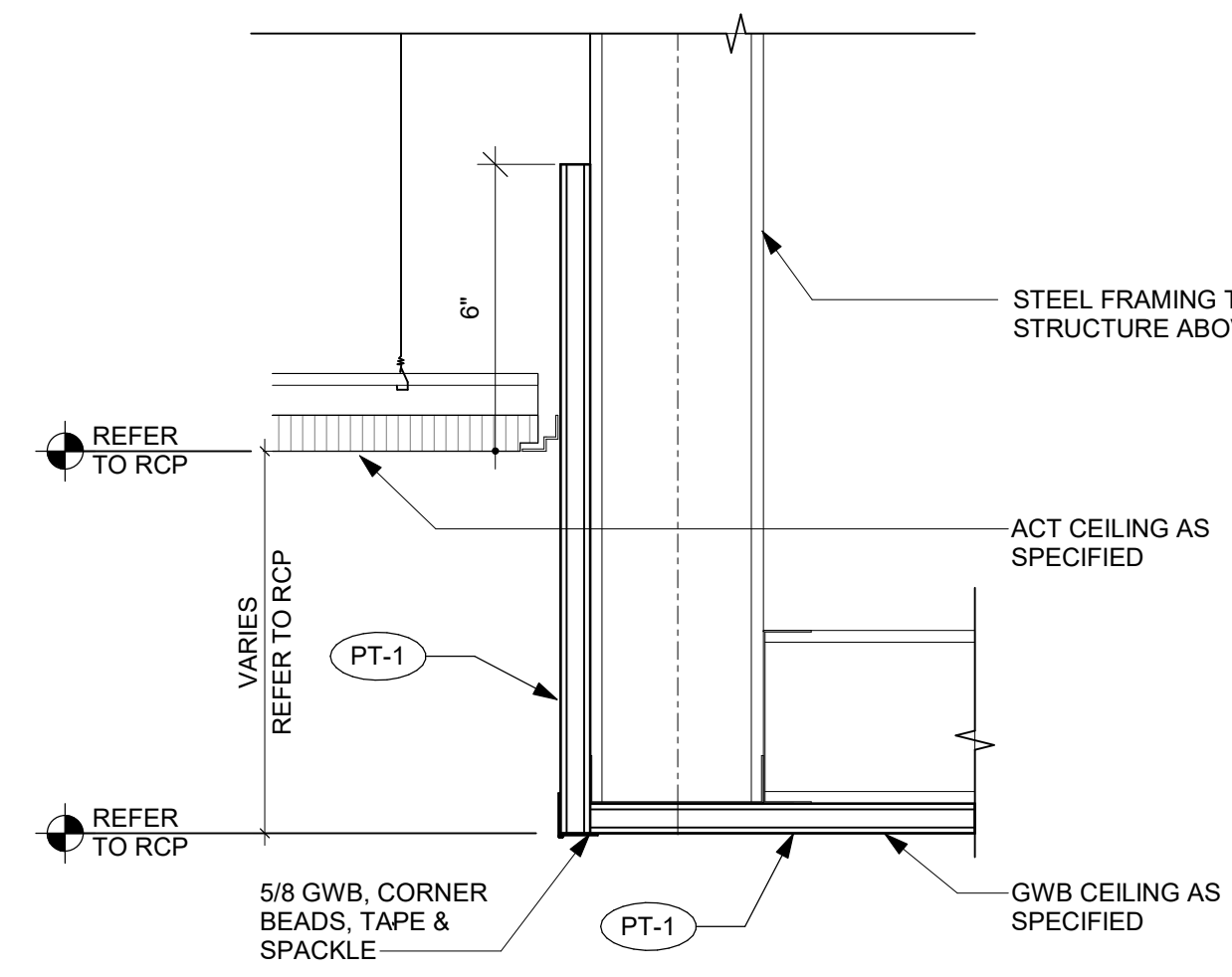
7 PERIMETER DETAIL W/ DIFFUSER
ID-501 SCALE: 1 1/2" = 1'-0"



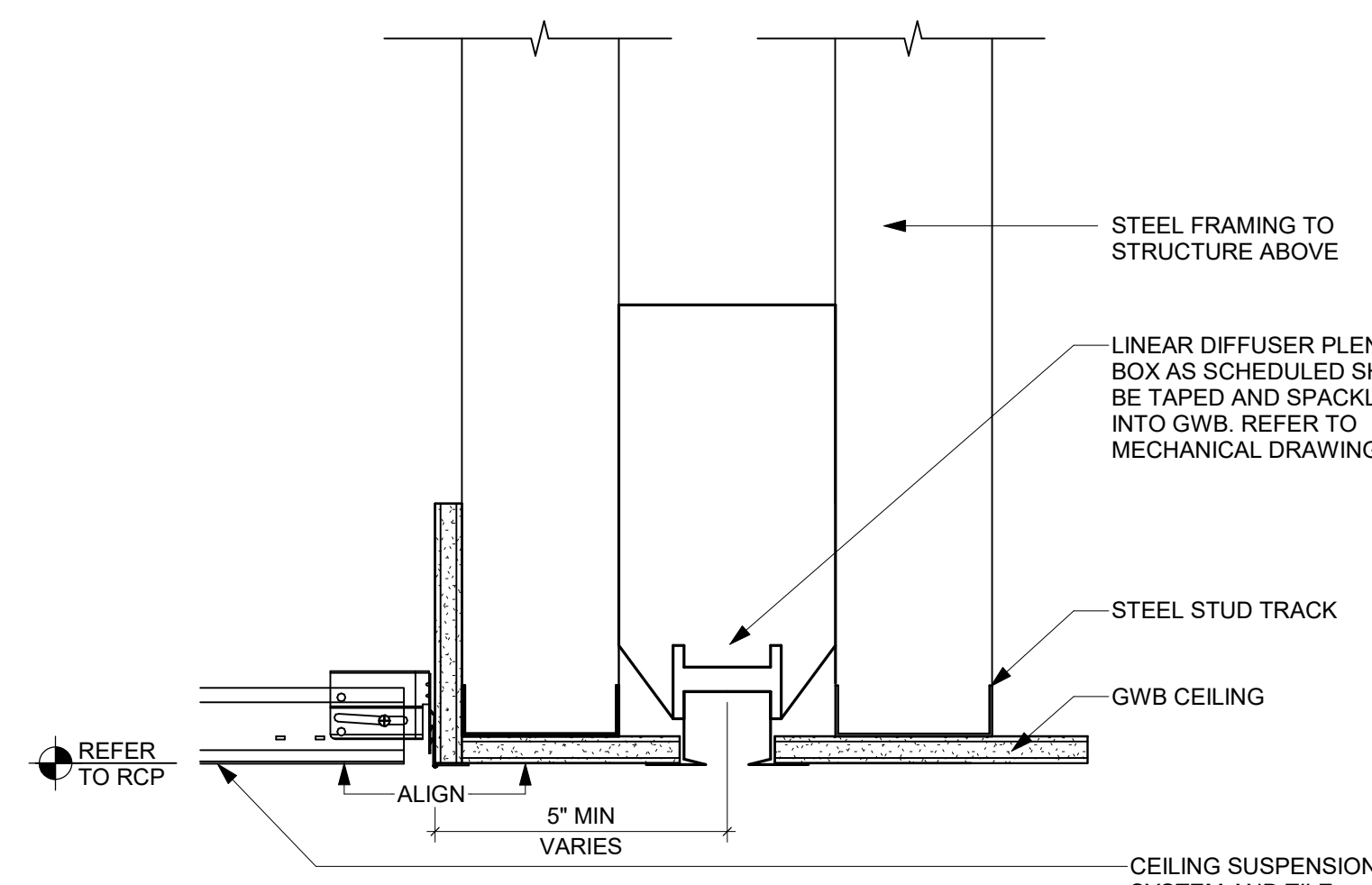
6 PERIMETER DETAIL W/OUT DIFFUSER
ID-501 SCALE: 1 1/2" = 1'-0"



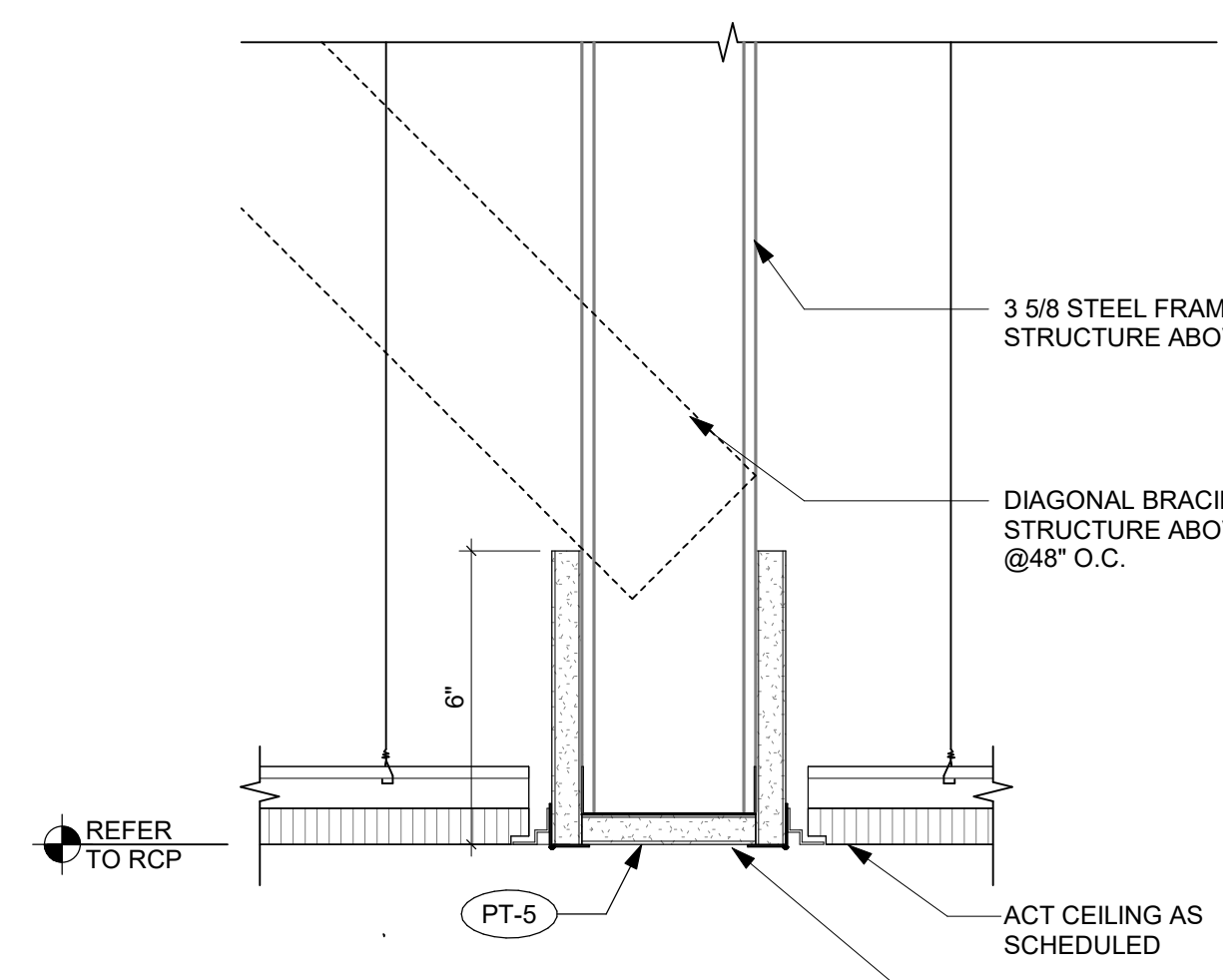
5 ACT/ACT CEILING TRANSITION W/ CEILING STEP
ID-501 SCALE: 3" = 1'-0"



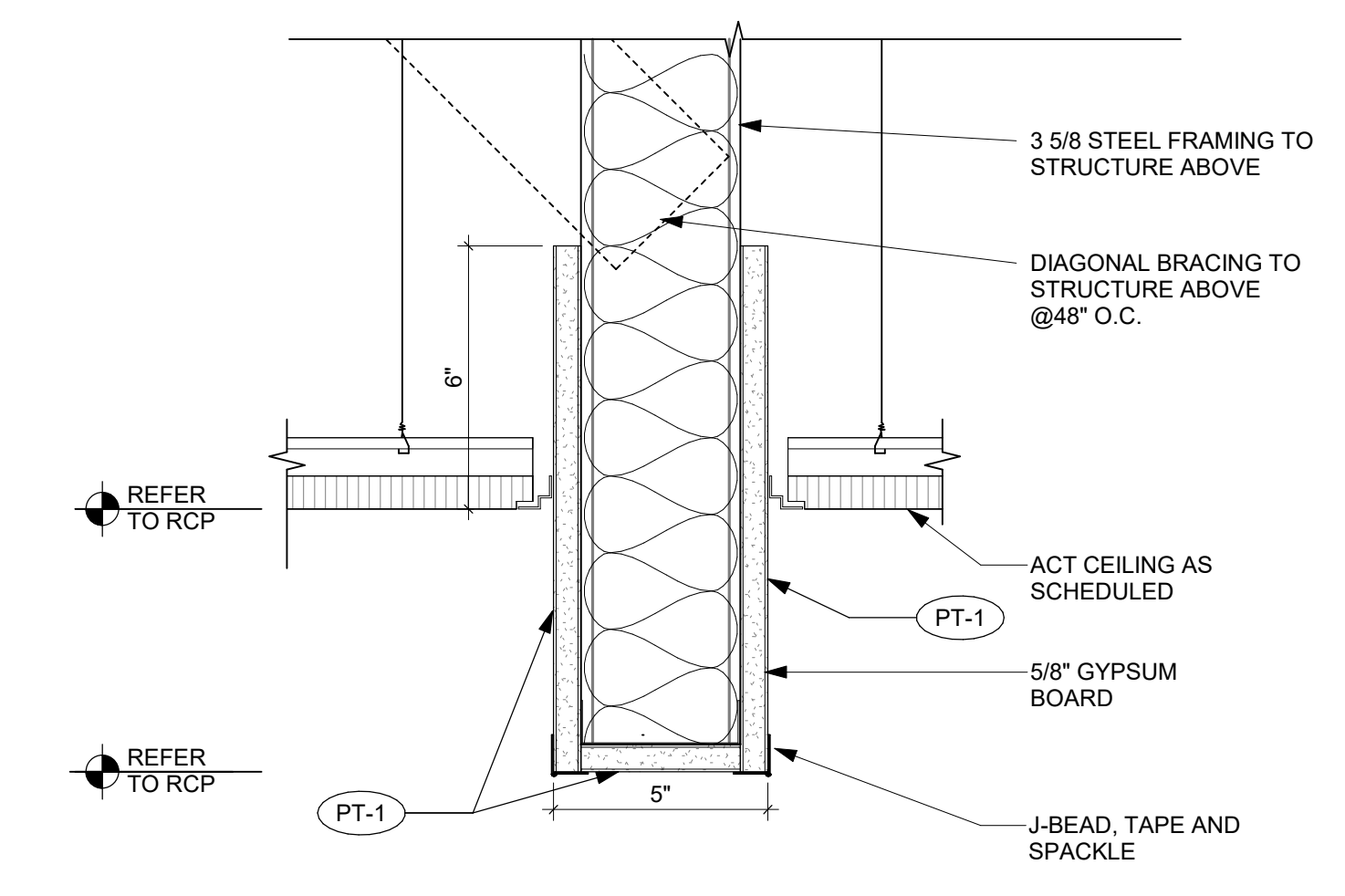
4 GWB SOFFIT DETAIL
ID-501 SCALE: 3" = 1'-0"



3 FLUSH ACT/GWB CEILING TRANSITION
ID-501 SCALE: 3" = 1'-0"



2 FLUSH ACT / ACT CEILING TRANSITION
ID-501 SCALE: 3" = 1'-0"



1 ACT / GWB CEILING TRANSITION
ID-501 SCALE: 3" = 1'-0"



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245 Summer Street
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Suite R-120
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Key Plan: Project North True North

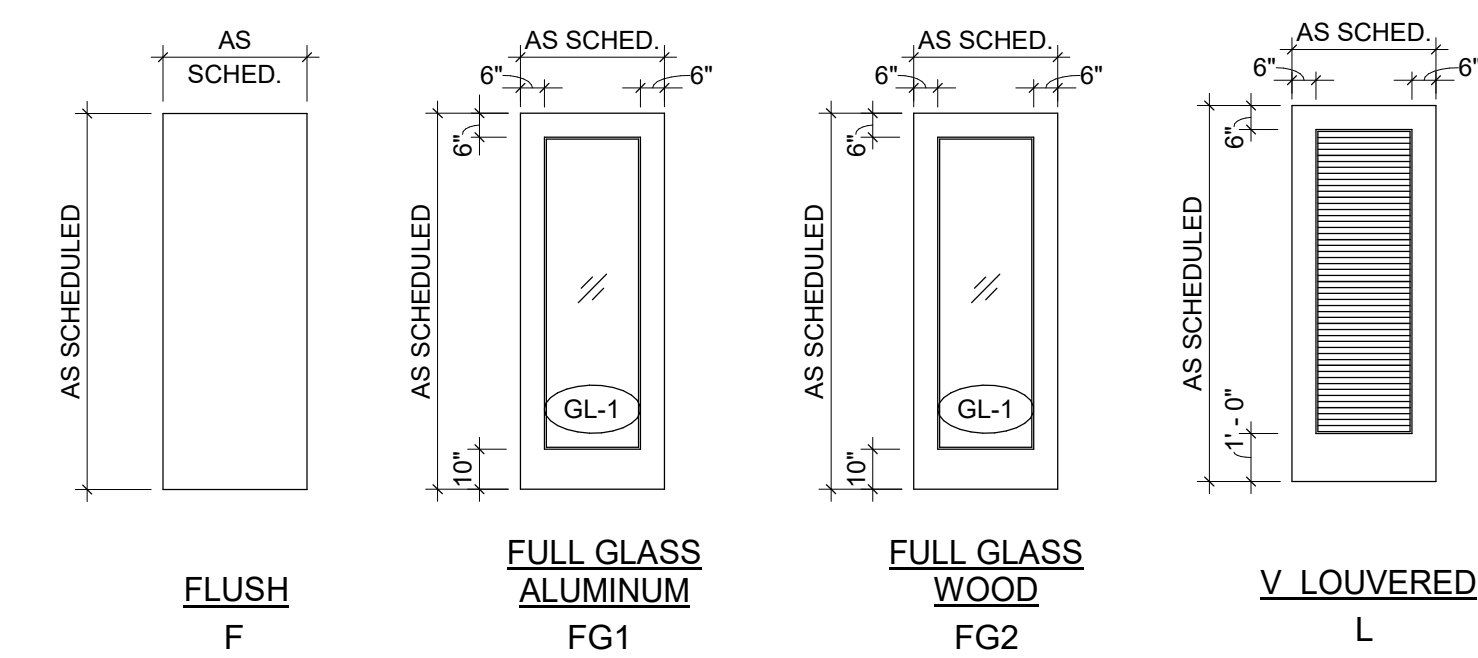
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Drawing Sheet Title:
INTERIOR CEILING
DETAILS

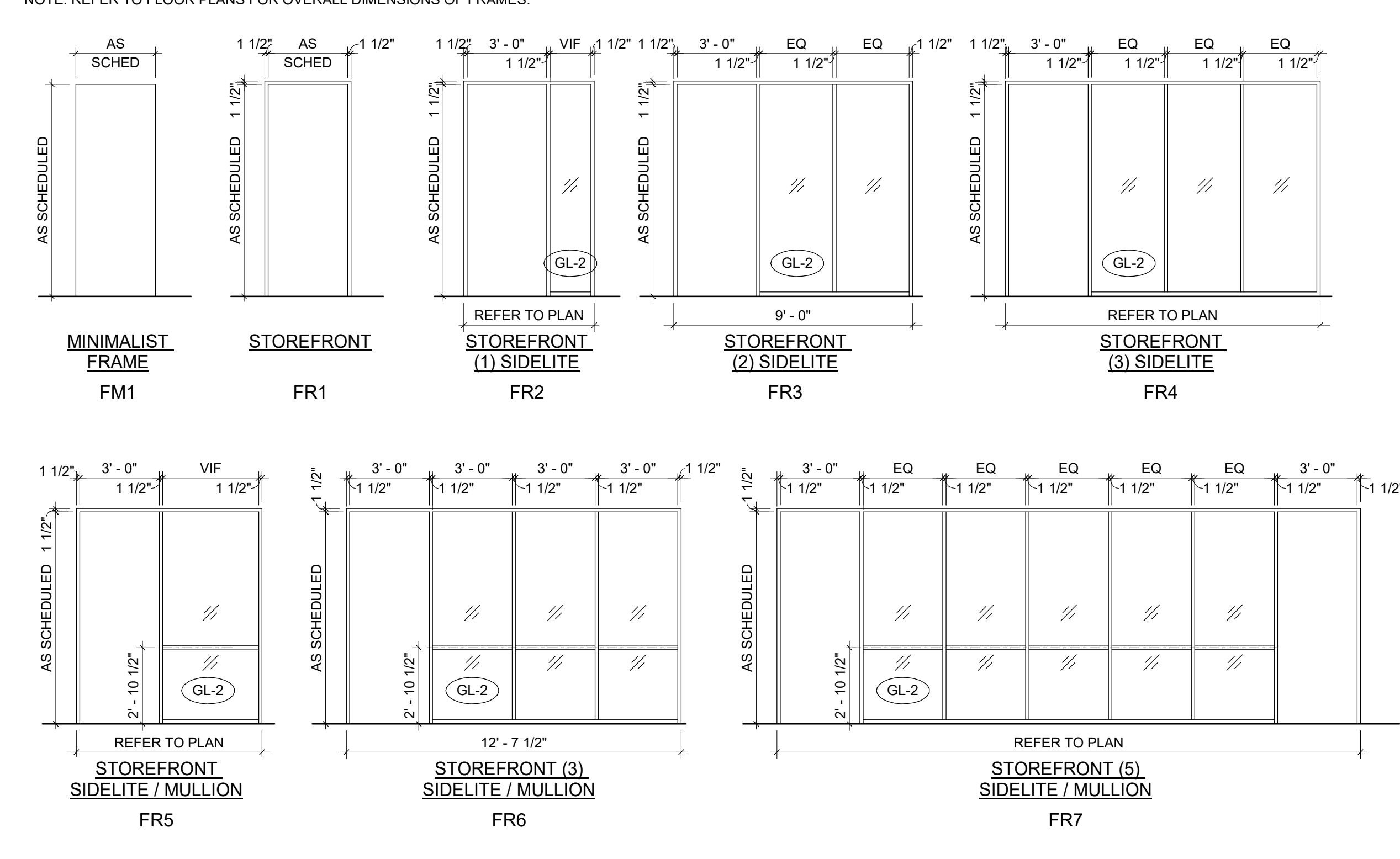
Drawing Sheet Number:
ID-501

Owner's Branch No.:
134

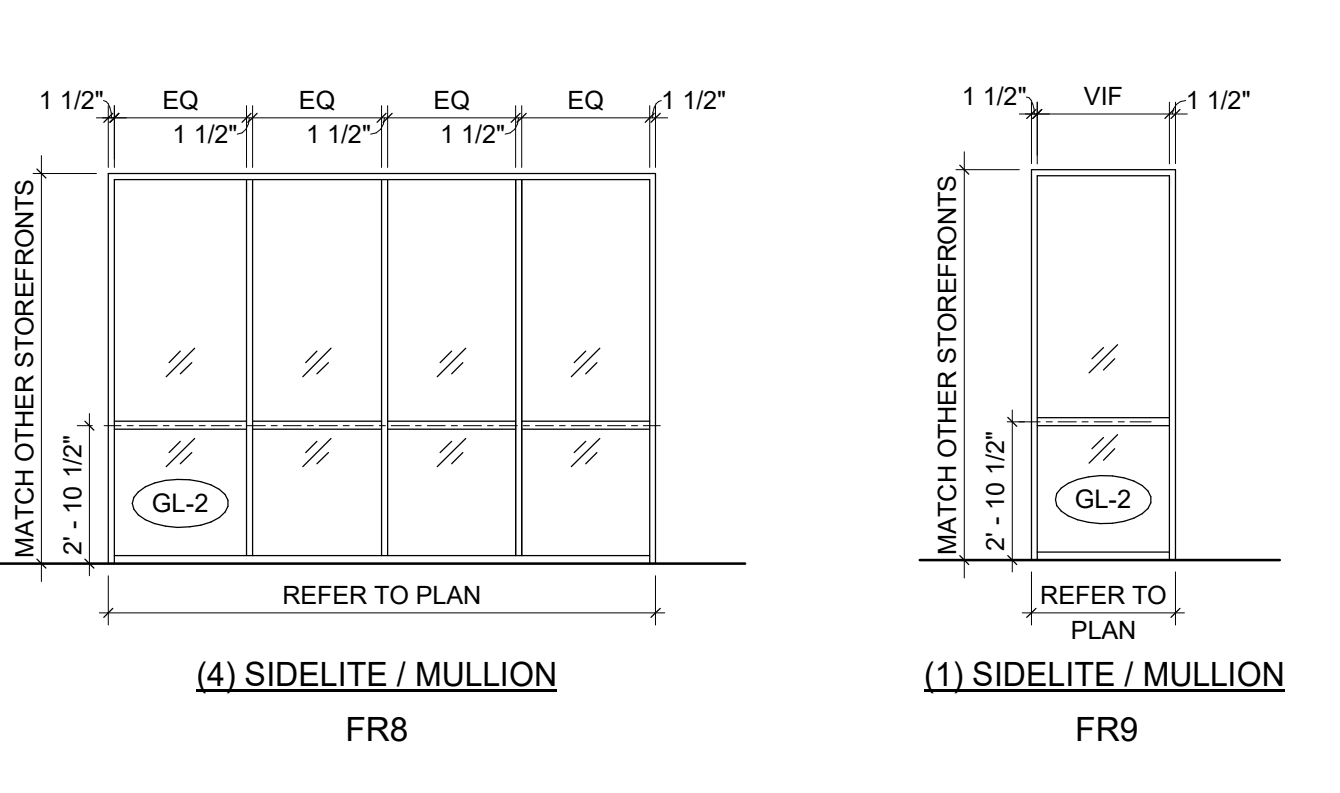
DOOR TYPES



FRAME TYPES



FIXED GLAZING



DOOR SCHEDULE

Table with columns: Door No., Room, How Set, Fire Rating, Door Type, Leaves, Nominal Size (Width, Height, Thickness), Material, Finish, Type, Material, Finish, Details, Remarks. Lists various door specifications for rooms like LOBBY, CORRIDOR, OFFICE, etc.

FIXED GLAZING SCHEDULE

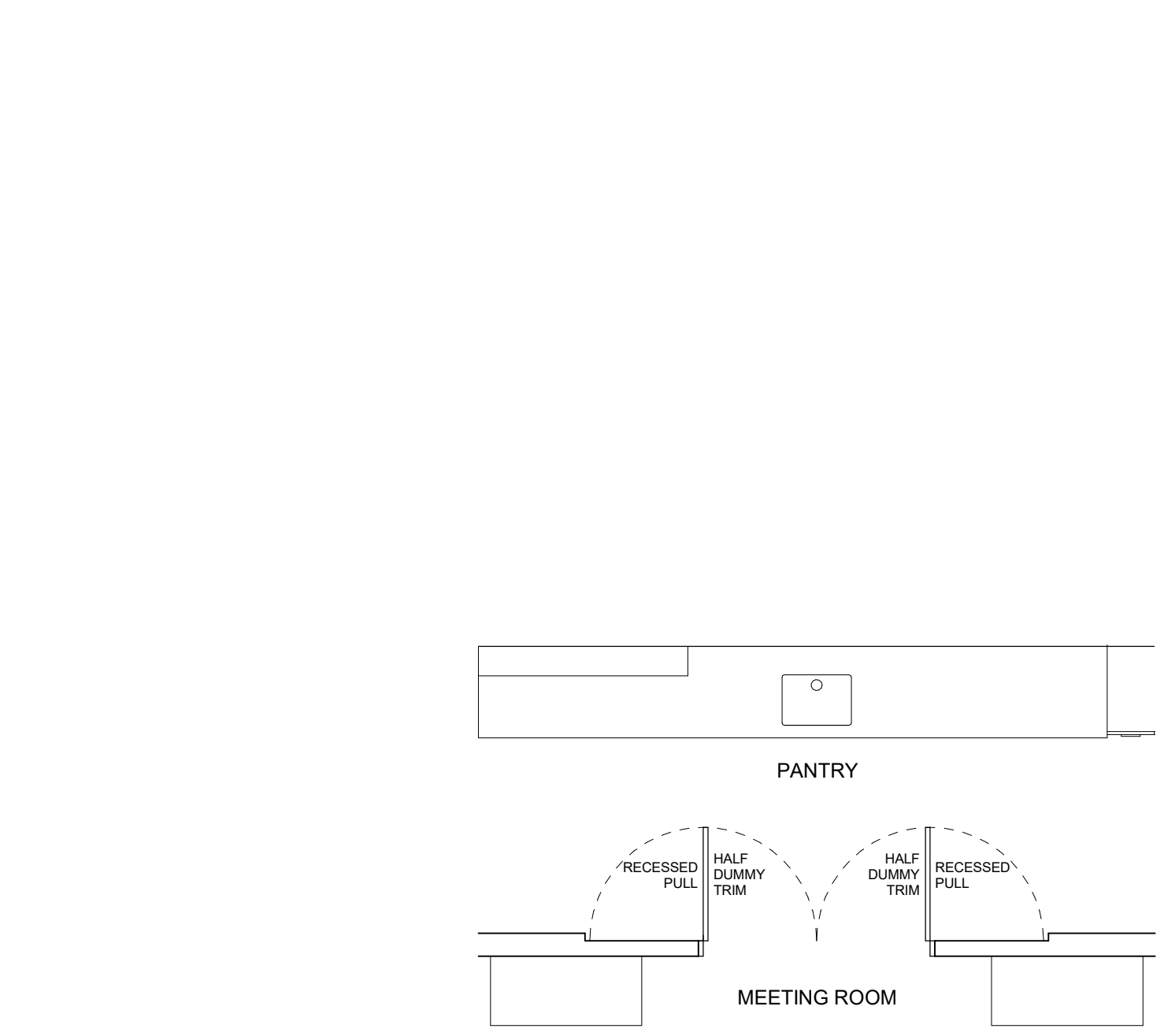
Table with columns: Room, Fire Rating, Door Type, Leaves, Nominal Size, Material, Finish, Type, Material, Finish, Details, Remarks. Lists fixed glazing specifications for rooms like FR OFFICE, MEETING ROOM, etc.

DOOR, FRAME & HARDWARE NOTES:

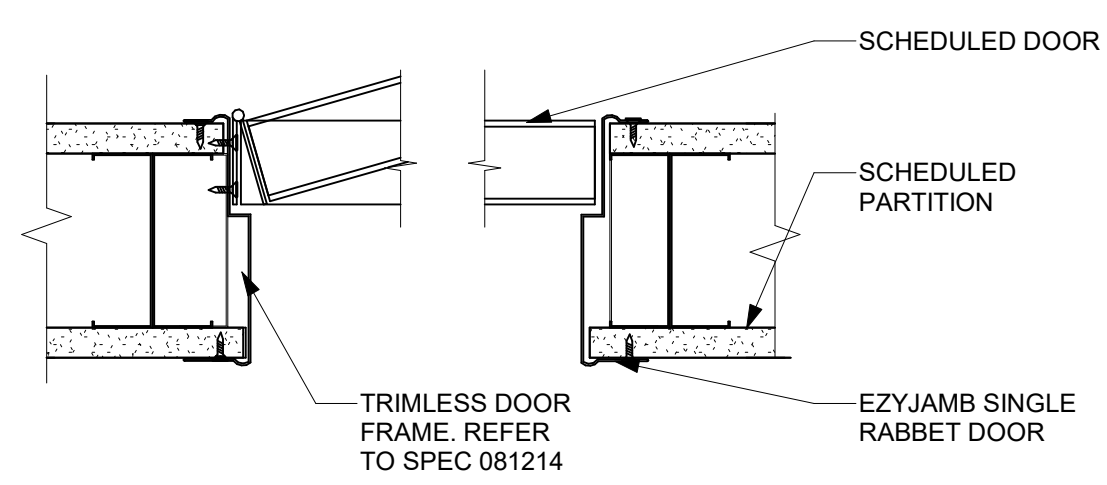
- 1. COORDINATE KEYING AND QUANTITIES WITH CONSTRUCTION MANAGER.
2. ALL HARDWARE METAL FINISHES SHALL MATCH 613 (US10B), DARK OXIDIZED SATIN BRONZE, OIL RUBBED, UNO.
3. LEVER STYLE BASIS OF DESIGN IS SCHLAGE, 05A.
4. PROVIDE EXTENDED STRIKE PLATES AS REQUIRED.
5. INTERIOR ALUMINUM STOREFRONT SYSTEM SHALL BE WILSON PARTITION, NO SUBSTITUTIONS.
6. HOLLOW METAL FRAMES SHALL BE KNOCK-DOWN.
7. ALUMINUM DOOR SHALL BE WILSON WIDE STYLE, AB-6 DARK BRONZE FINISH, WITH GL-1, 1/4" TEMPERED SAFETY GLASS.
8. CLEAR WOOD DOORS SHALL BE MASONITE ARCHITECTURAL ASPIRO SERIES WOOD VENEER OR V1 INDUSTRIES HERITAGE COLLECTION FLUSH WOOD VENEER SERIES. RIPT CUT WHITE OAK, UNLESS NOTED TO BE BY MILLWORKER. NO SUBSTITUTIONS.
9. PAINTED DOORS SHALL BE SOLID CORE WOOD DOOR.
10. DOORS SHALL HAVE 3/4" UNDERCUT, TYP.
11. FOR GLAZING TYPES, REFER TO FINISH SCHEDULE.
12. REFER TO ID-003 FOR ABBREVIATION LIST.

HARDWARE SETS

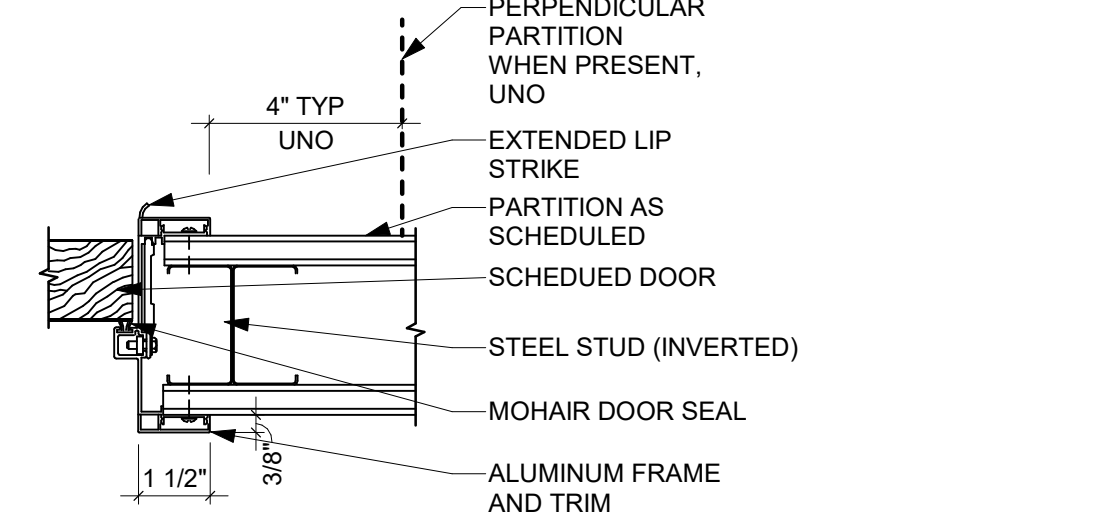
Table listing hardware sets for various rooms, including: SET 01 - OFFICES, COLLAB, PANTRY; SET 02 - SECURITY DOORS / FR OFFICE; SET 03 - SINGLE STORAGE, JANITOR CLOSET; SET 04 - PAIR STORAGE, COATS; SET 05 - MULTIUSER RESTROOM; SET 06 - SINGLE USER RESTROOM; SET 07A - LAN - SINGLE; SET 08 - ELECTRICAL ROOM - PAIR; SET 09 - EXIT DOOR; SET 10 - PAIR MEETING ROOM / PANTRY; SET 11 - PAIR FRAMELESS GLASS DOORS, ACCESS CONTROLLED - COORD W/LANDLORD; SET 12 - PAIR FRAMELESS MILLWORK WOOD DOORS; SET 13 - PRIVATE WATER CLOSET, ADA.



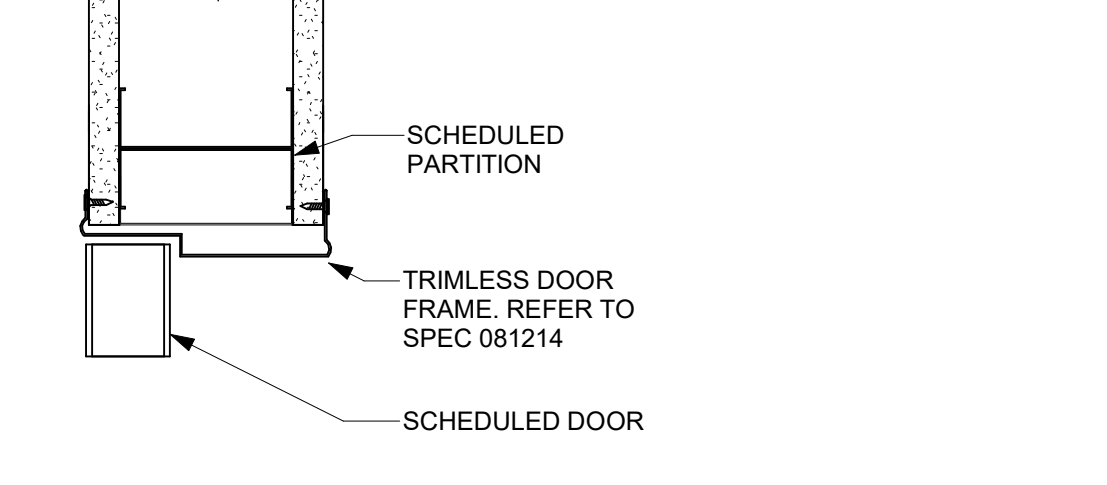
6 MEETING ROOM / PANTRY DOOR
ID-510 SCALE: 1/4\"/>



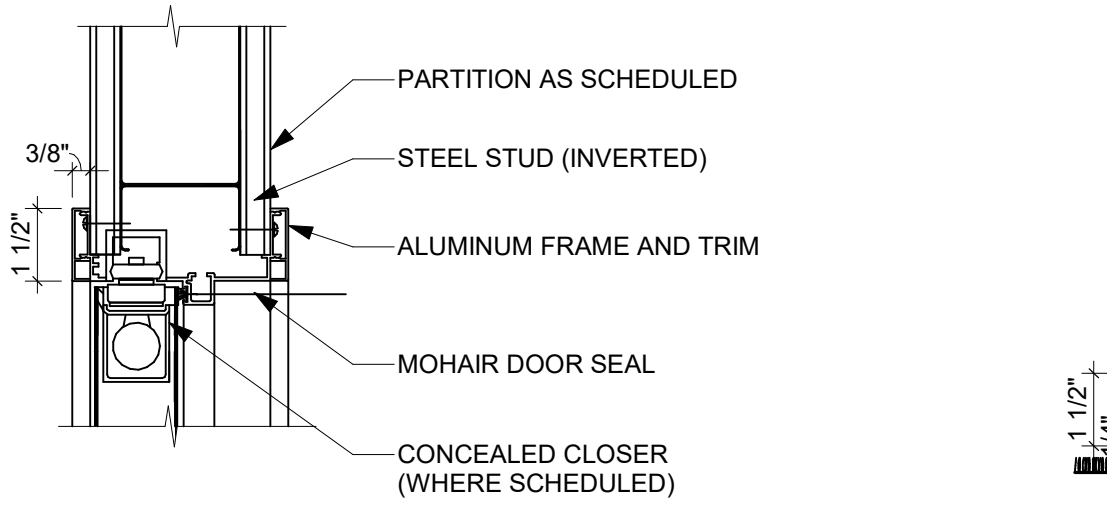
5 MINIMALIST JAMB DETAIL
ID-510 SCALE: 3\"/>



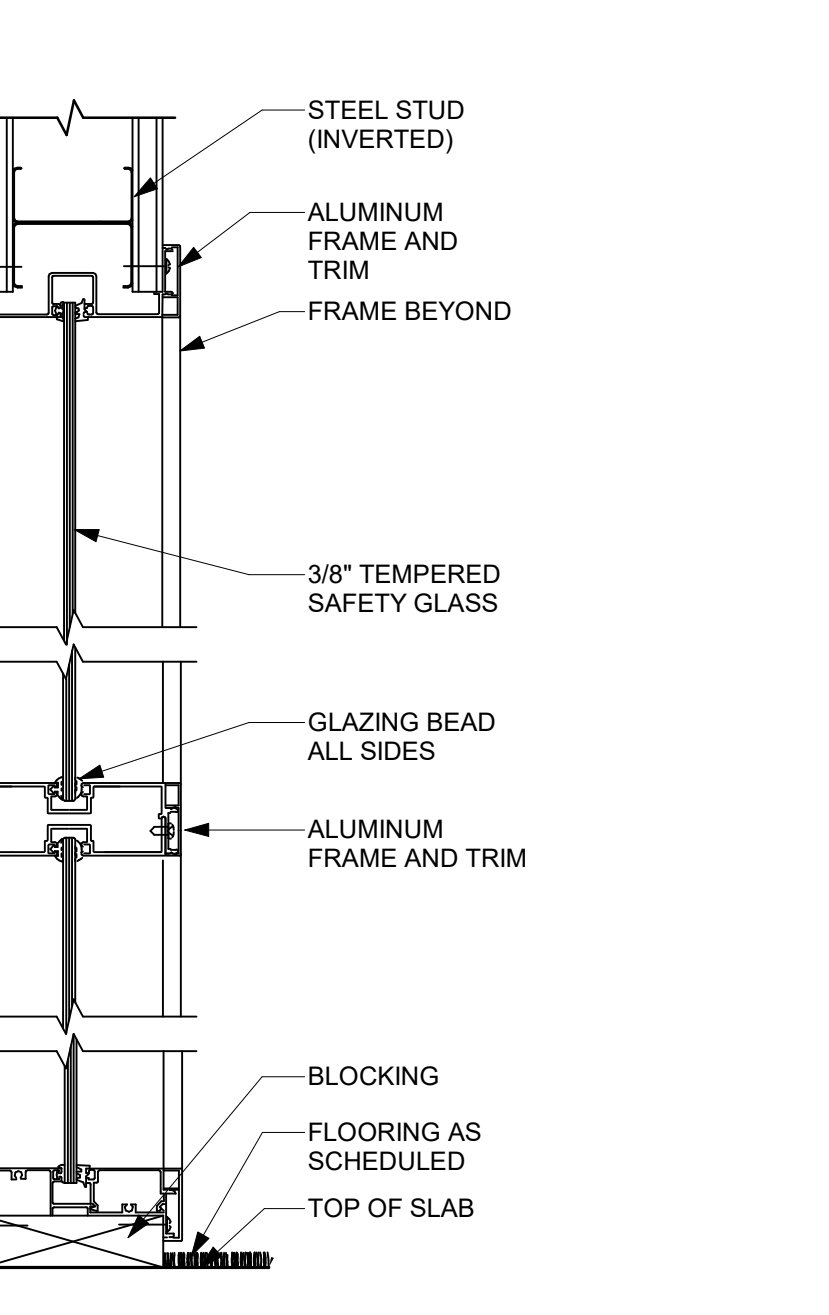
3 STOREFRONT JAMB DETAIL
ID-510 SCALE: 3\"/>



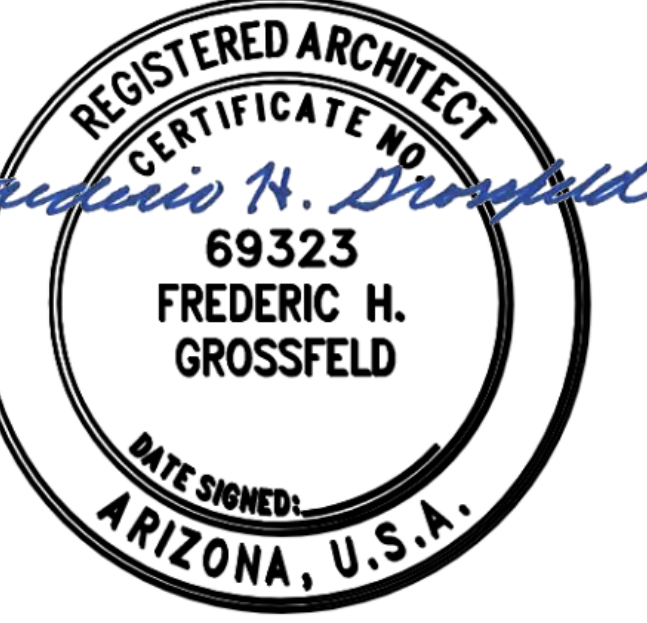
4 MINIMALIST HEAD DETAIL
ID-510 SCALE: 3\"/>



2 STOREFRONT HEAD DETAIL
ID-510 SCALE: 3\"/>



1 STOREFRONT SECTION, TYP
ID-510 SCALE: 3\"/>



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Table with columns: Number, Description, Date. Includes entries for 'Issued for Permit & Construction' on 23 DEC 24.

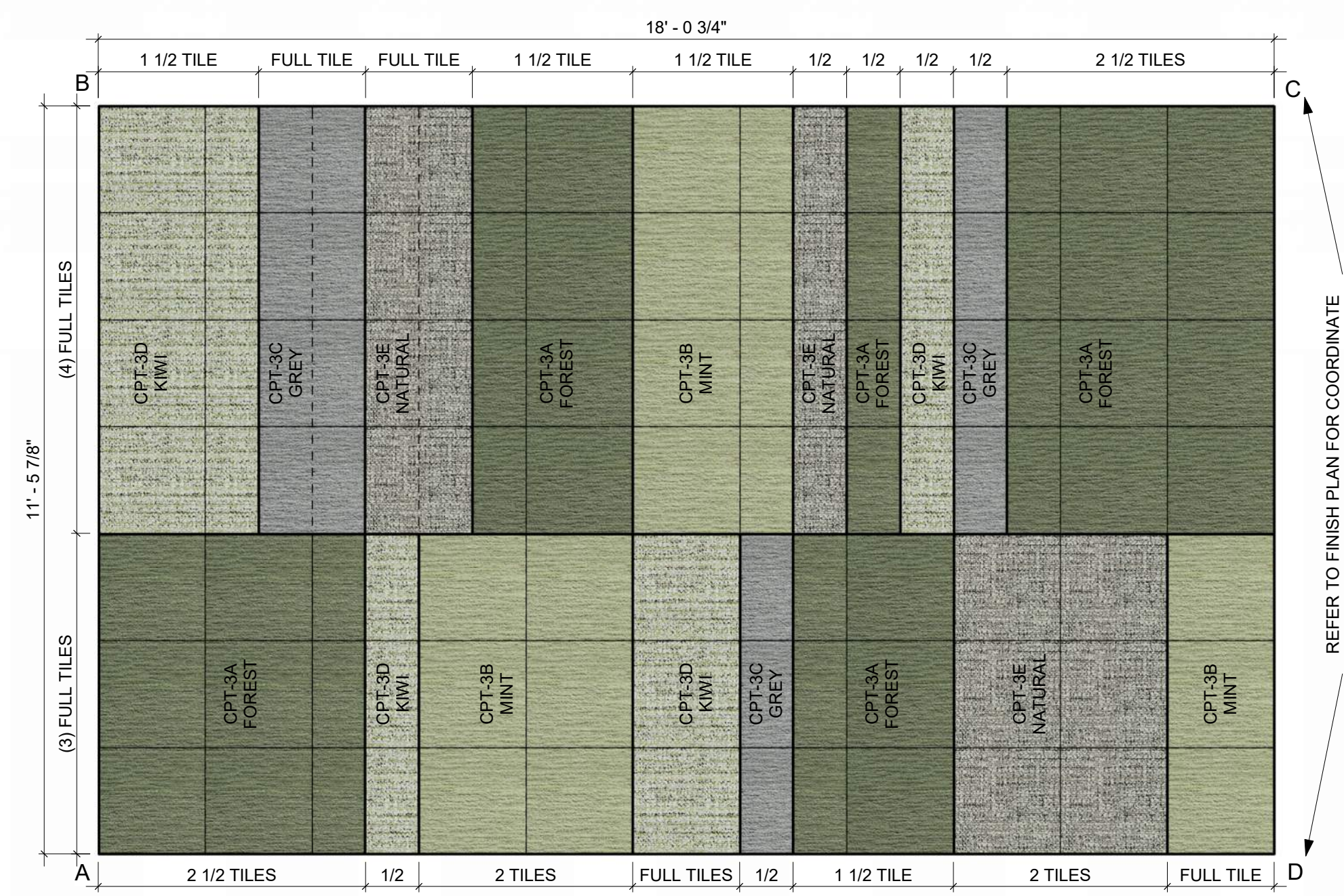
Key Plan: Project North True North

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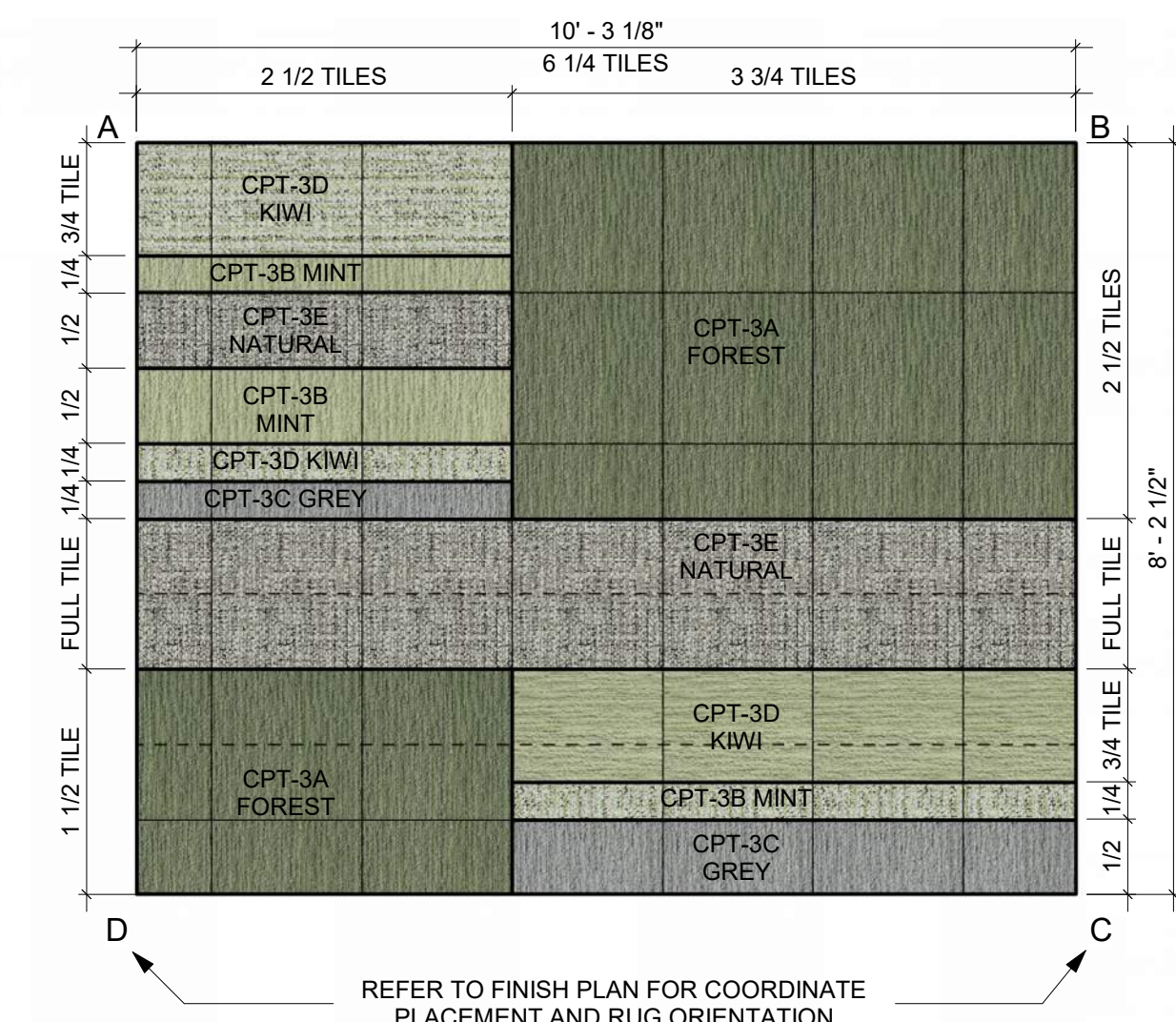
Drawing Sheet Title: INTERIOR DOOR, FRAME & HARDWARE SCHEDULES AND DETAILS

Drawing Sheet Number: ID-510

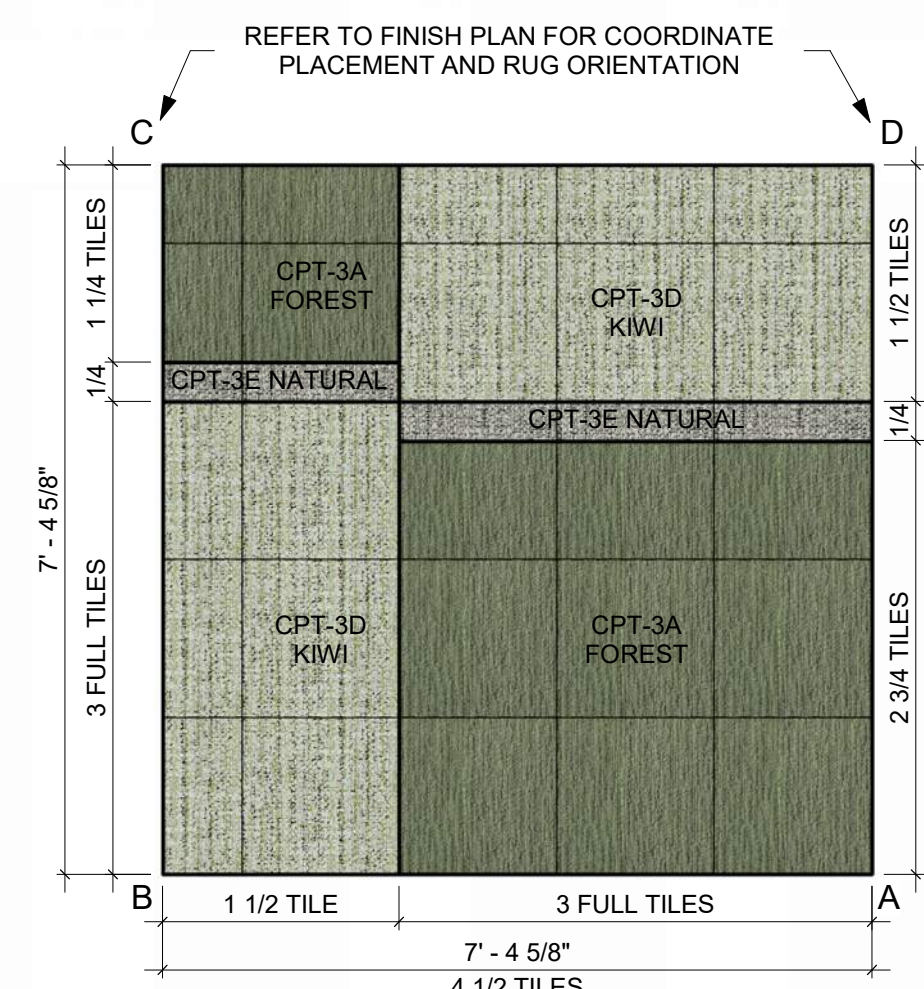
Owner's Branch No.: 134



5 LOBBY AREA RUG - LARGE
ID-521 SCALE: 1/2" = 1'-0"

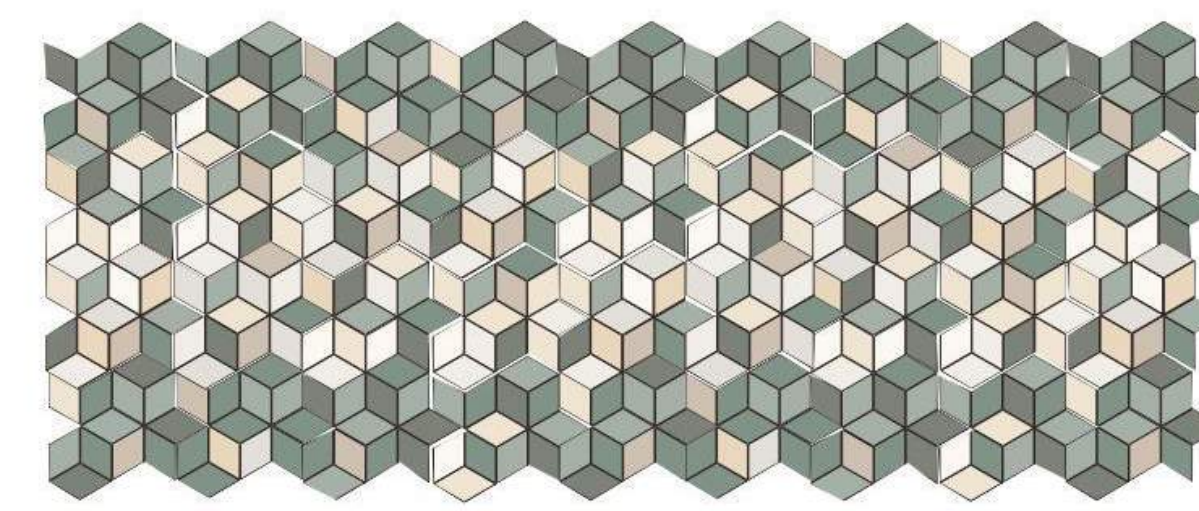


4 LOBBY AREA RUG - MEDIUM
ID-521 SCALE: 1/2" = 1'-0"

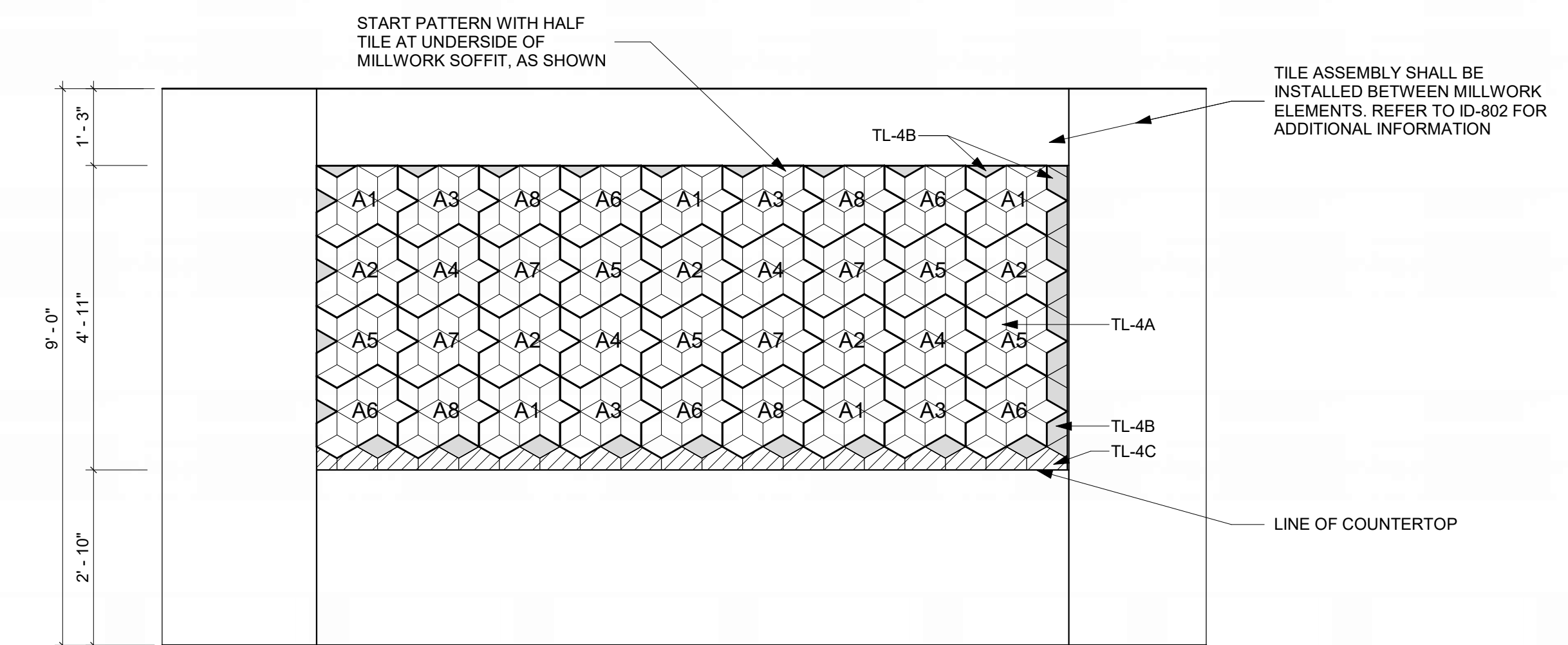


3 TR OFFICE AREA RUG
ID-521 SCALE: 1/2" = 1'-0"

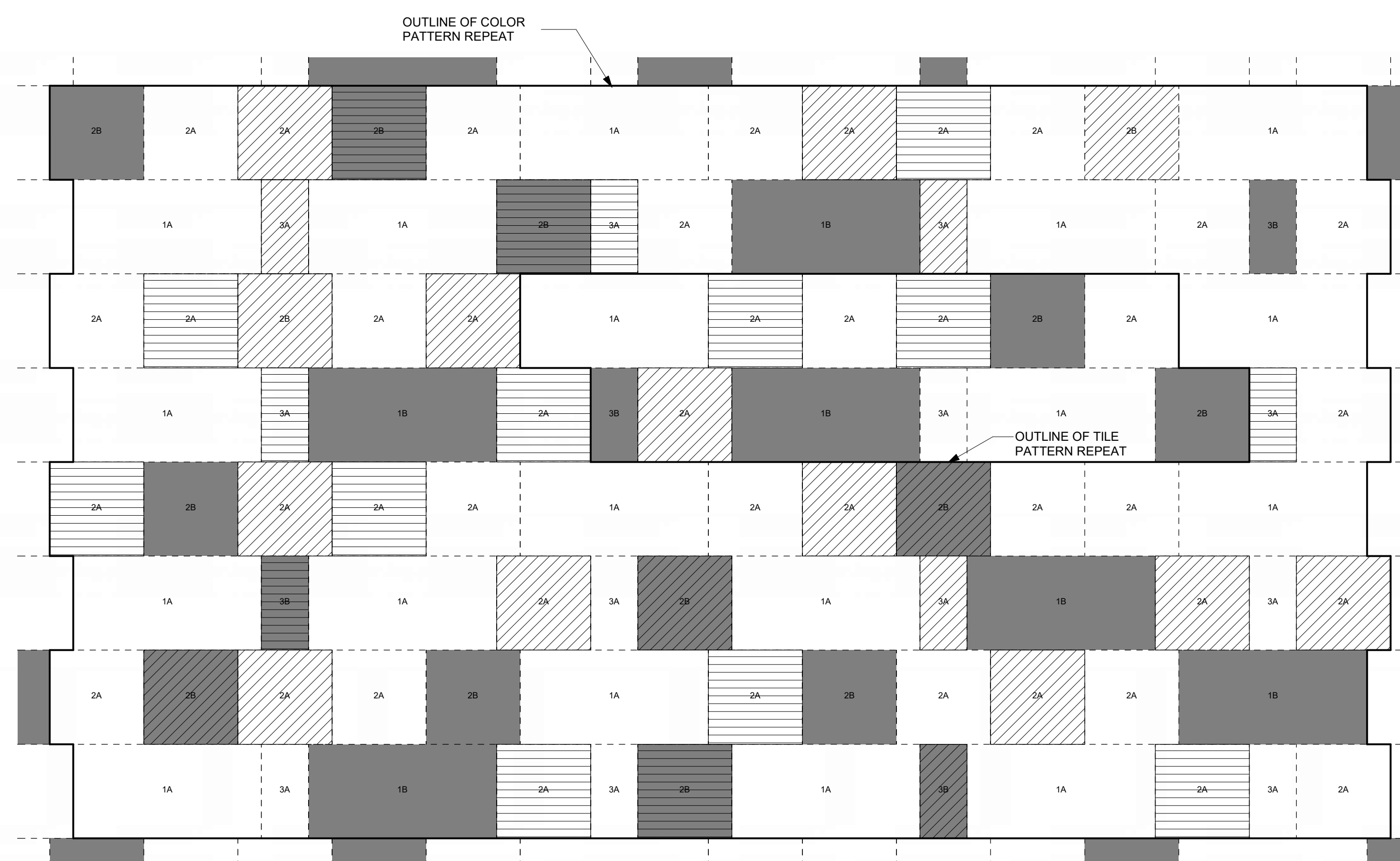
General Notes:



COLOR DIAGRAM
NOTE:
LAYOUT SHALL BE PER FINISH SCHEDULE ON ID-520:
• LAYING SCHEME 2
• DOUBLE COMPOSITION
REFER TO MANUFACTURER'S LITERATURE

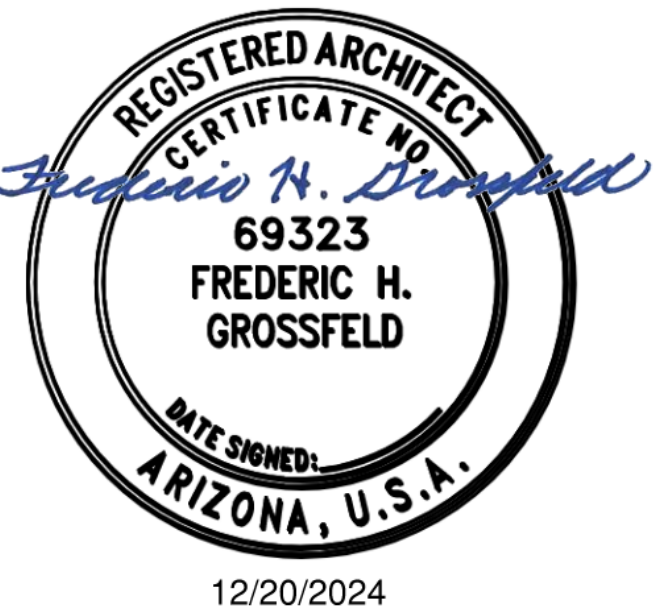


2 PANTRY BACKSPLASH
ID-521 SCALE: 1/2" = 1'-0"



1 ENLARGED FLOOR TILE PATTERN
ID-521 SCALE: 1/2" = 1'-0"

TILE PATTERN NOTES:
1. COLOR PATTERN REPEAT = 448 SF
75% GRIGIO = 336 SF
25% FANGO = 112 SF
(24) 24 x 48 TILE
1A - 75% GRIGIO = (18) TILES = 144 SF
1B - 25% FANGO = (6) TILES = 48 SF
(56) 24 x 24 TILE
2A - 75% GRIGIO = (42) TILES = 168 SF
50% NATURAL = (21) TILES
25% GOCCIA = (11) TILES
25% GRAFFIO = (10) TILES
2B - 25% FANGO = (14) TILES = 56 SF
50% NATURAL = (7) TILES
25% GOCCIA = (4) TILES
25% GRAFFIO = (3) TILES
(16) 12 x 24 TILES
3A - 75% GRIGIO = (12) TILES = 24 SF
50% NATURAL = (6) TILES
25% GOCCIA = (3) TILES
25% GRAFFIO = (3) TILES
3B - 25% FANGO = (4) TILES = 8 SF
50% NATURAL = (2) TILES
25% GOCCIA = (1) TILE
25% GRAFFIO = (1) TILE
2. REFER TO ID-520 FOR TILE SPECIFICATIONS
3. ALL FLOOR TILE SHALL BE INSTALLED OVER SCHLUTER DITRA UNCOUPLING MEMBRANE



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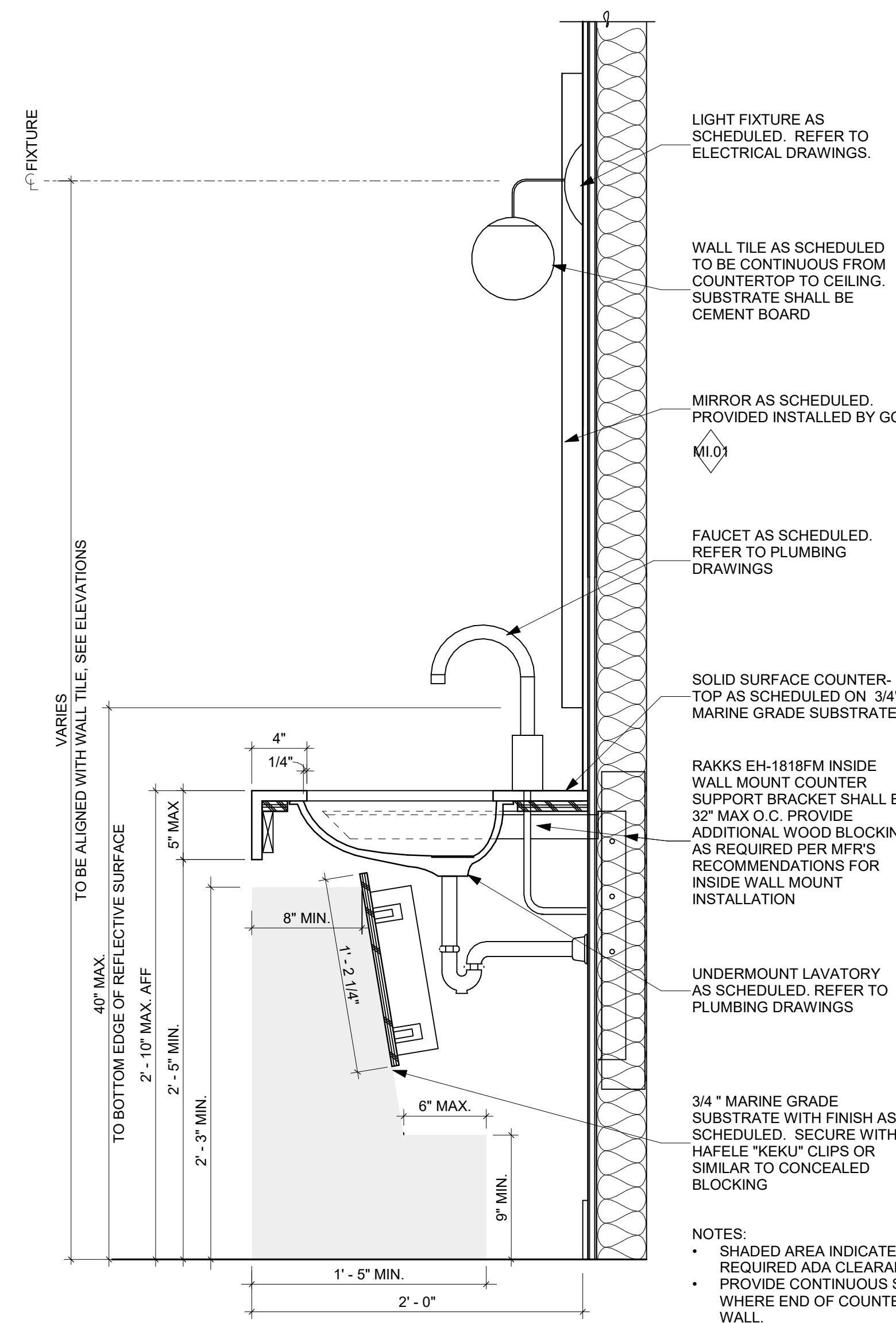
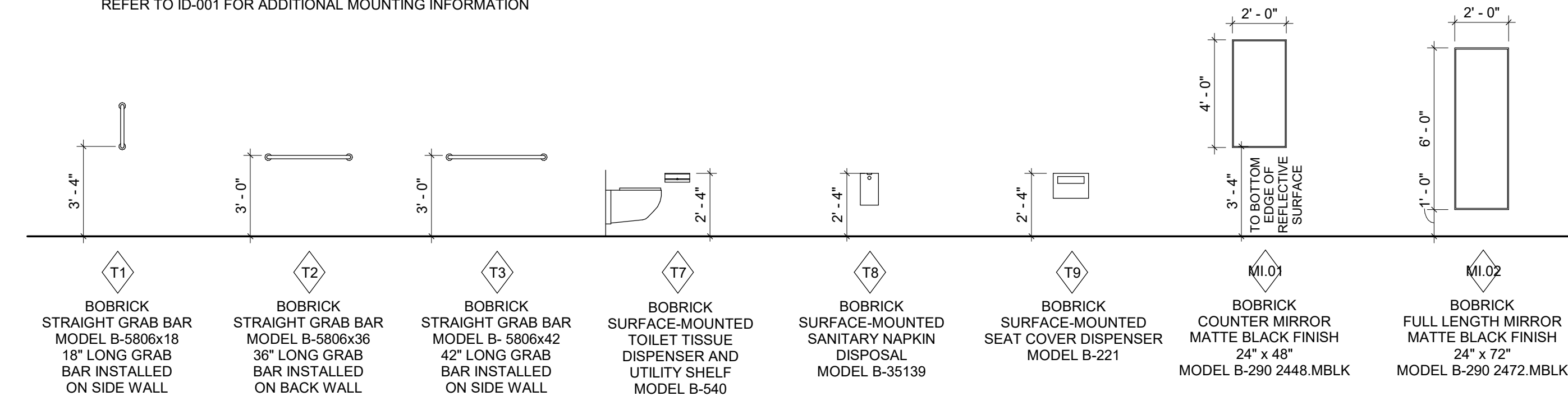
Drawing Sheet Title:
INTERIOR FINISH DETAILS AND PATTERNS

Drawing Sheet Number:
ID-521

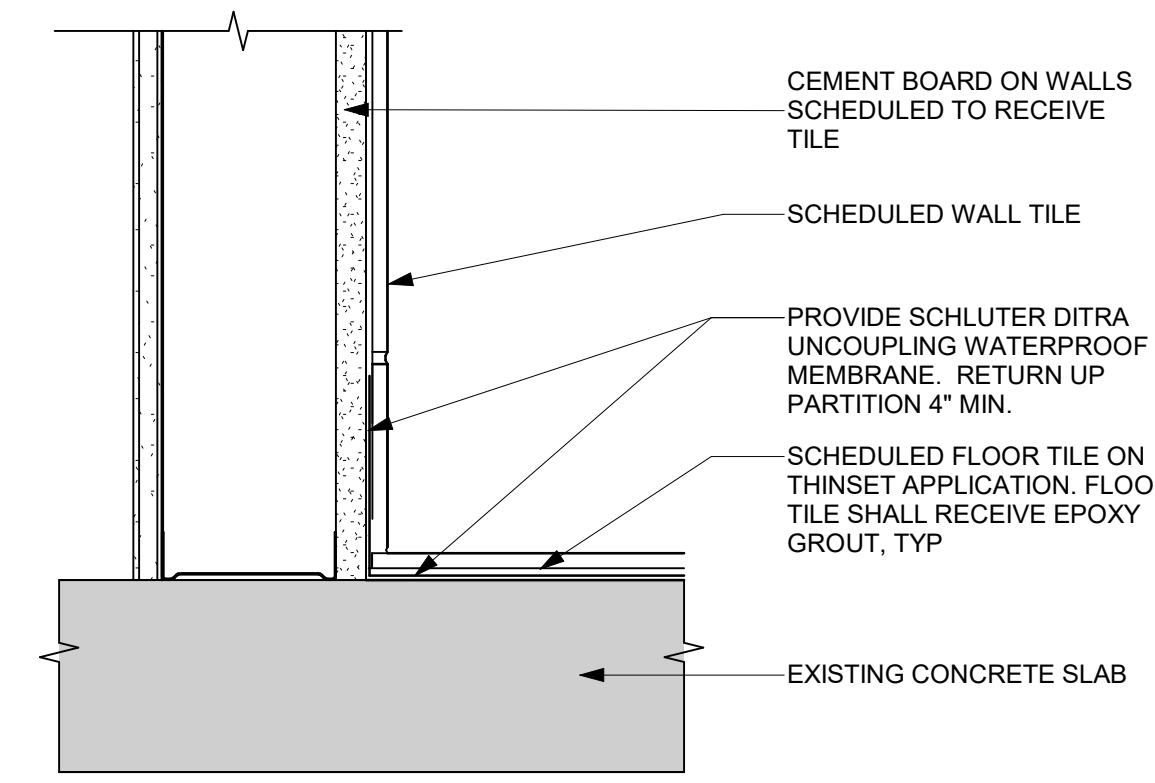
Owner's Branch No.:
134

TOILET ACCESSORIES - SPECIFICATIONS AND MOUNTING HEIGHTS

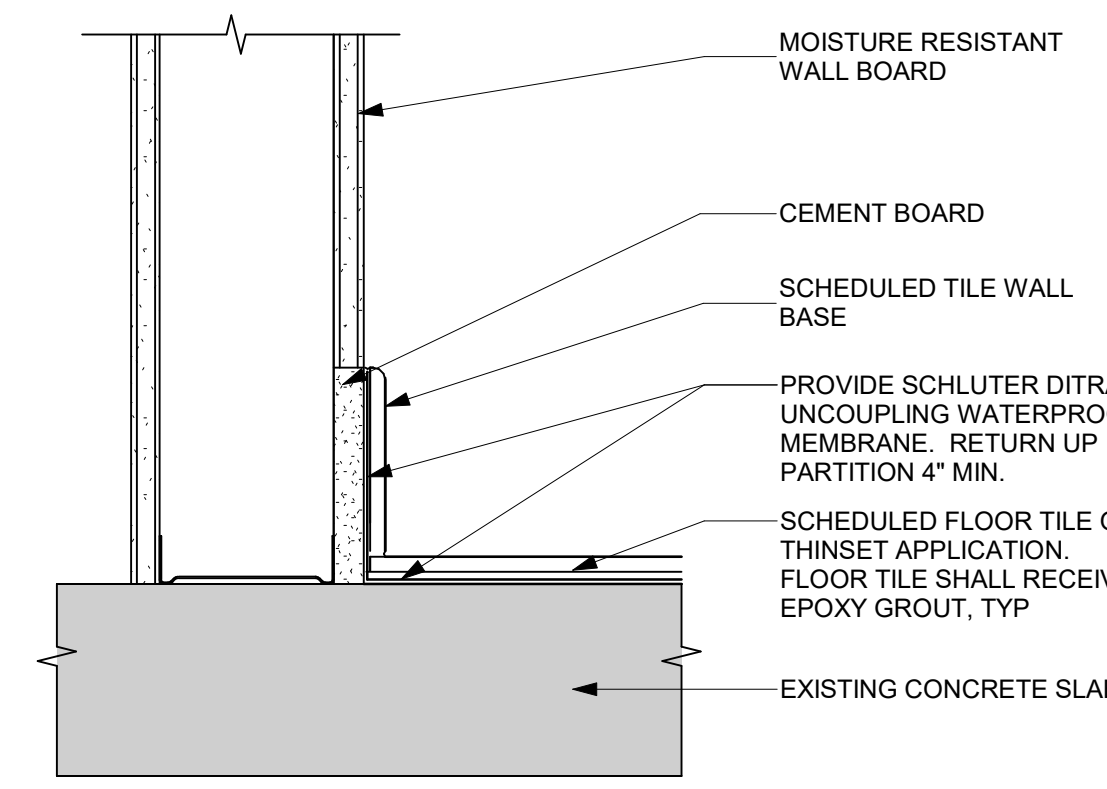
NOTES: PROVIDE ADDITIONAL WALL BLOCKING AND FRAMING AS REQUIRED FOR EXACT MOUNTING LOCATIONS OF TOILET ACCESSORIES
REFER TO ID-001 FOR ADDITIONAL MOUNTING INFORMATION



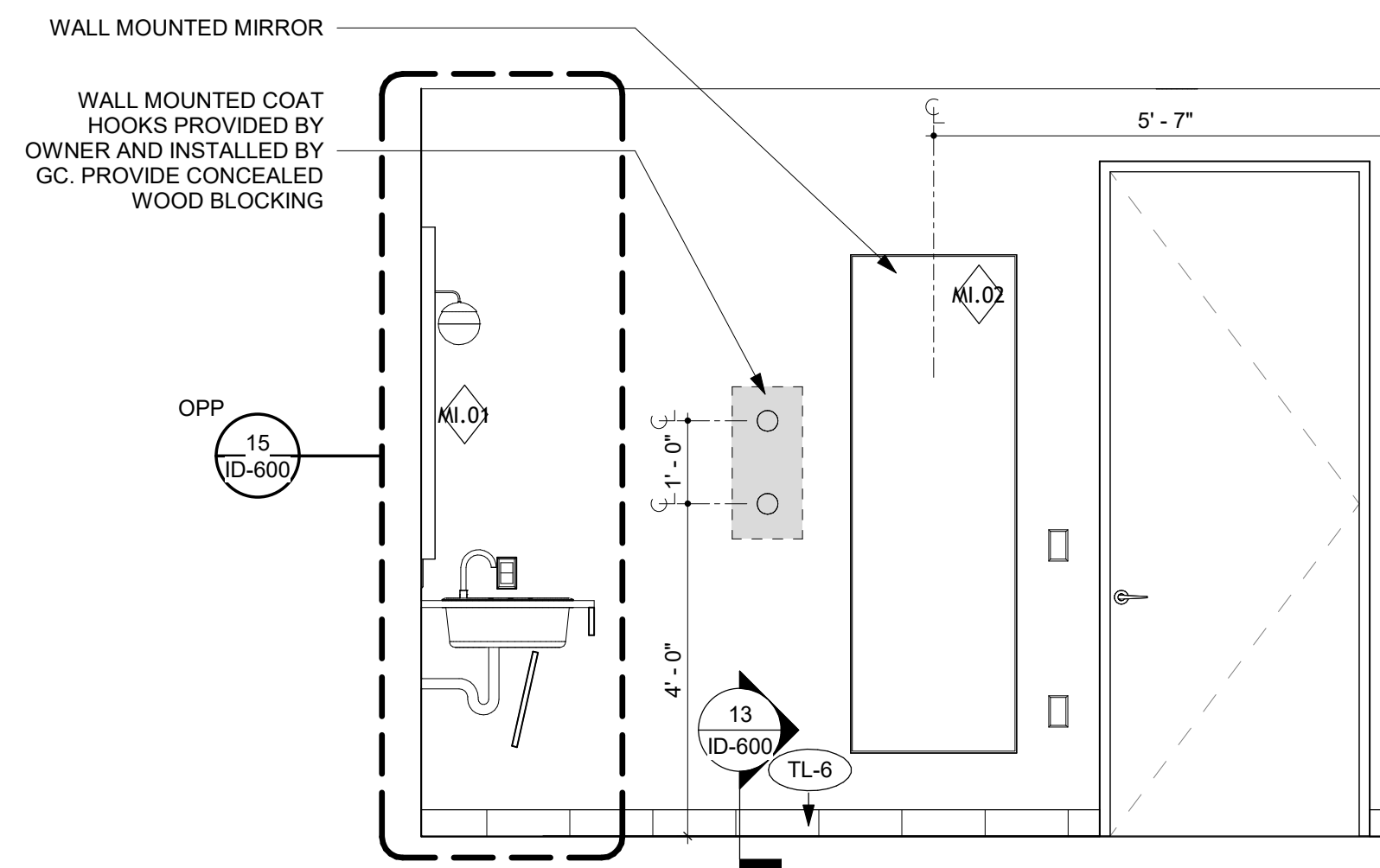
15 SECTION AT LAVATORY
ID-600 SCALE: 1/2" = 1'-0"



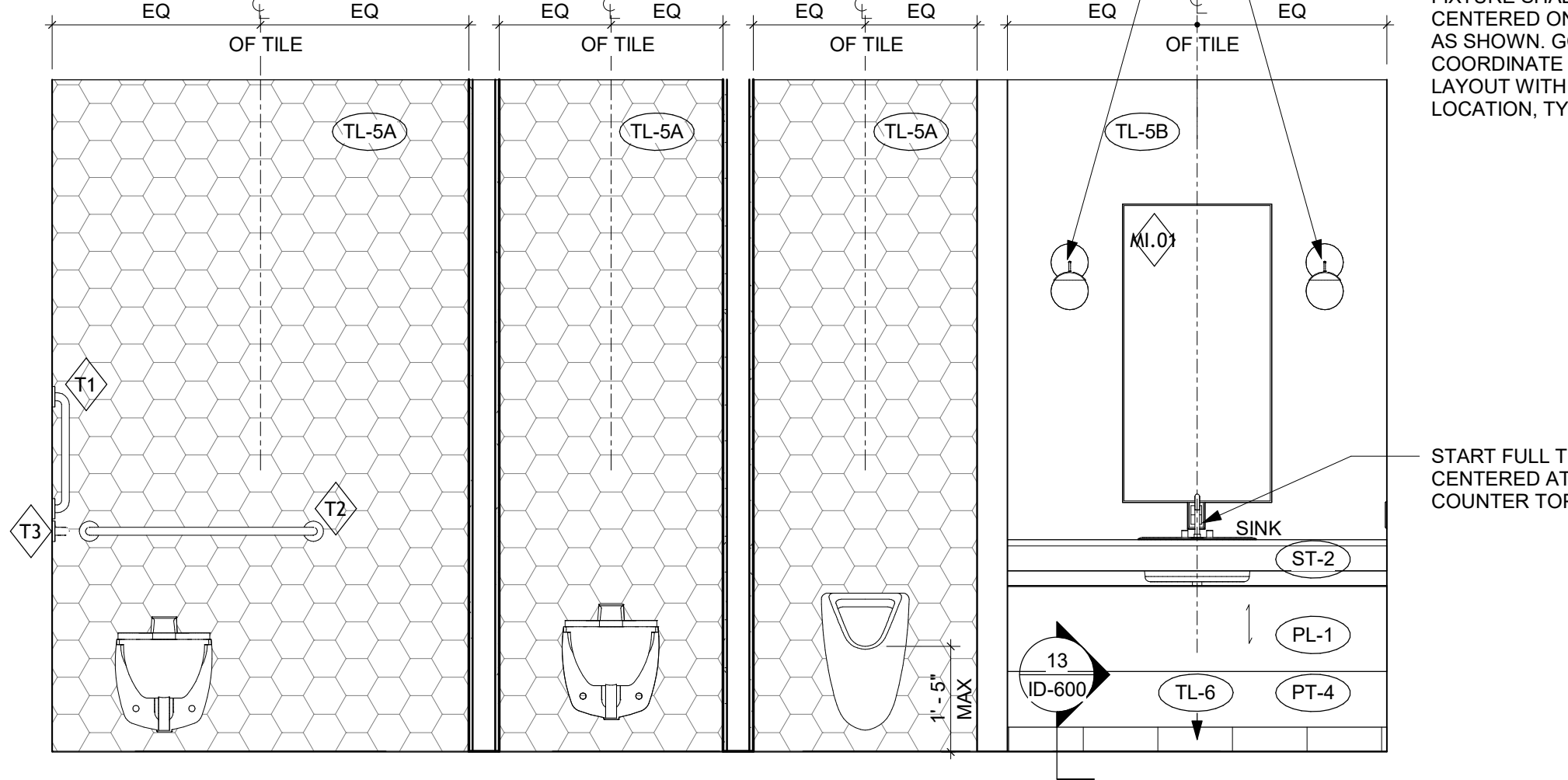
14 WALL TILE DETAIL
ID-600 SCALE: 3" = 1'-0"



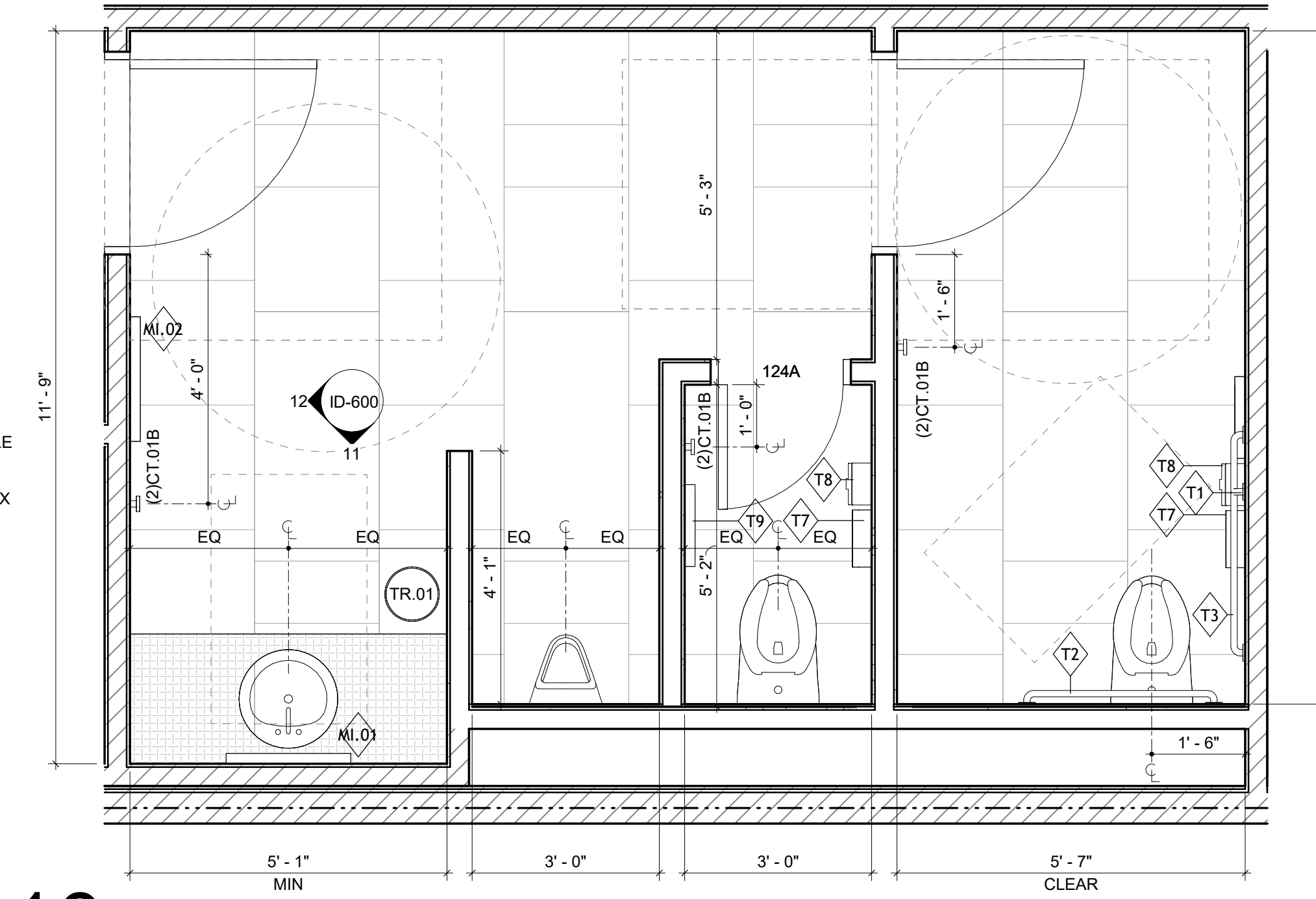
13 TILE BASE DETAIL
ID-600 SCALE: 3" = 1'-0"



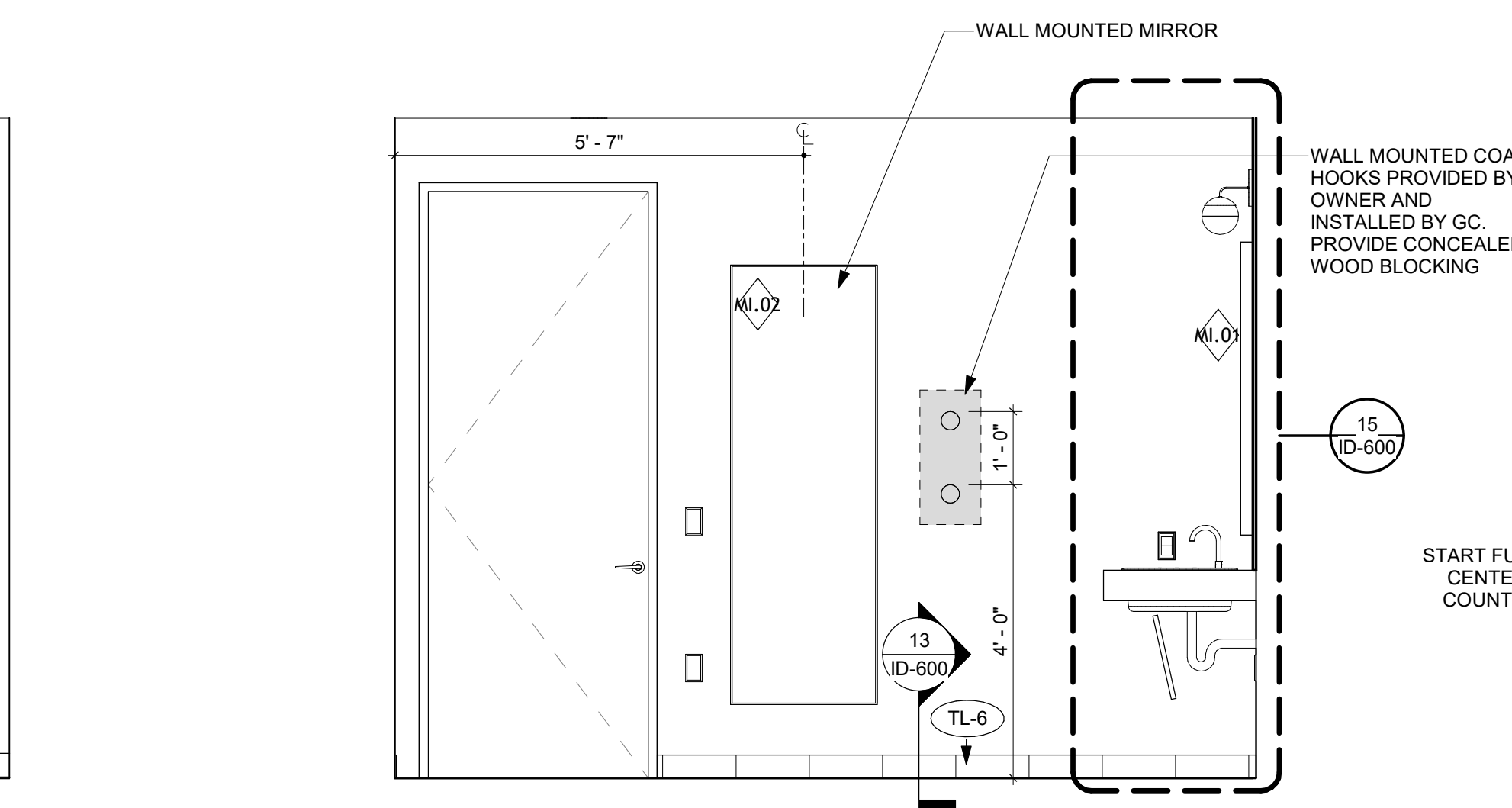
12 DOOR WALL
ID-600 SCALE: 1/2" = 1'-0"



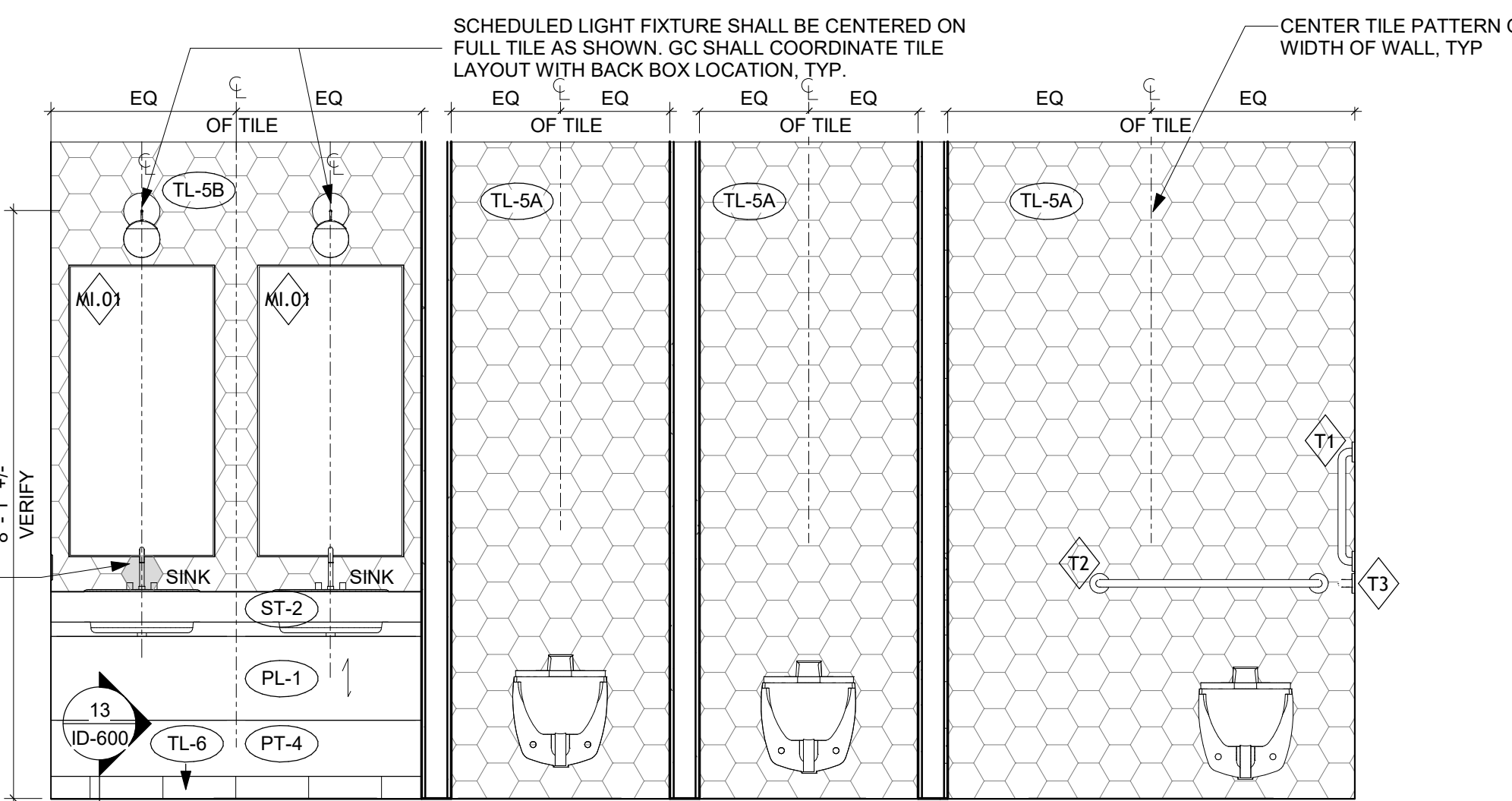
11 MENS SINK AND TOILET WALL
ID-600 SCALE: 1/2" = 1'-0"



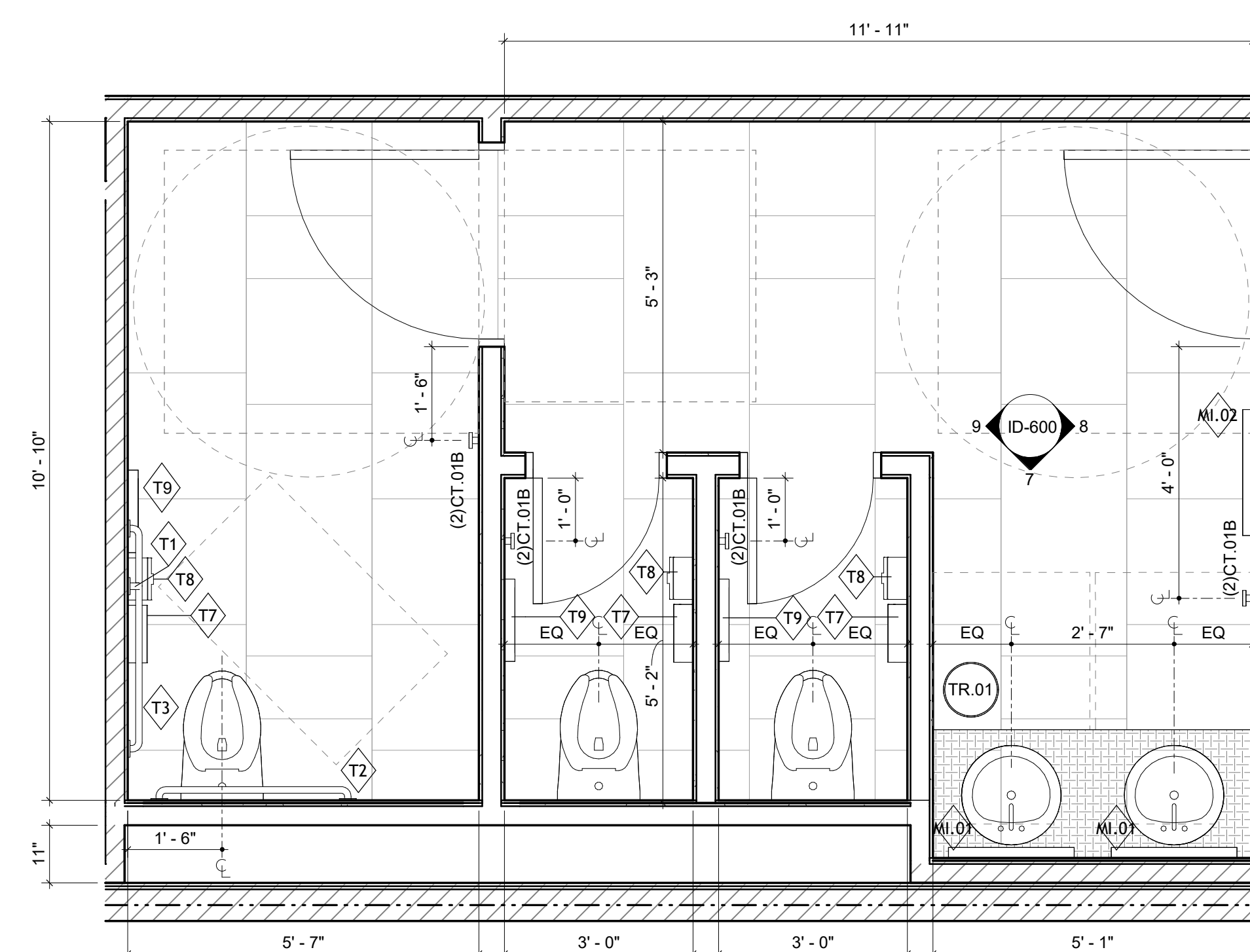
10 ENLARGED MENS RESTROOM PLAN
ID-600 SCALE: 1/2" = 1'-0"



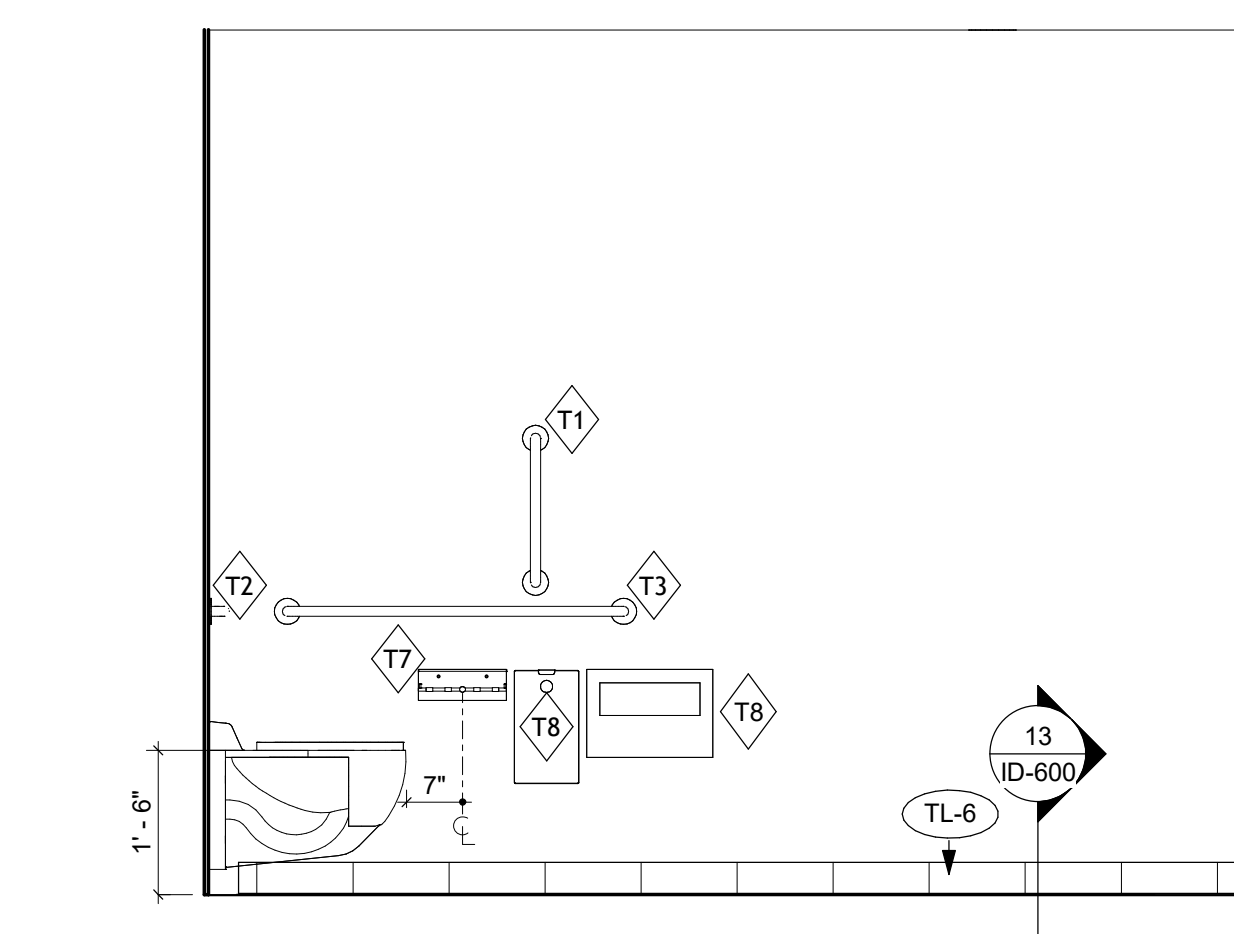
8 DOOR WALL
ID-600 SCALE: 1/2" = 1'-0"



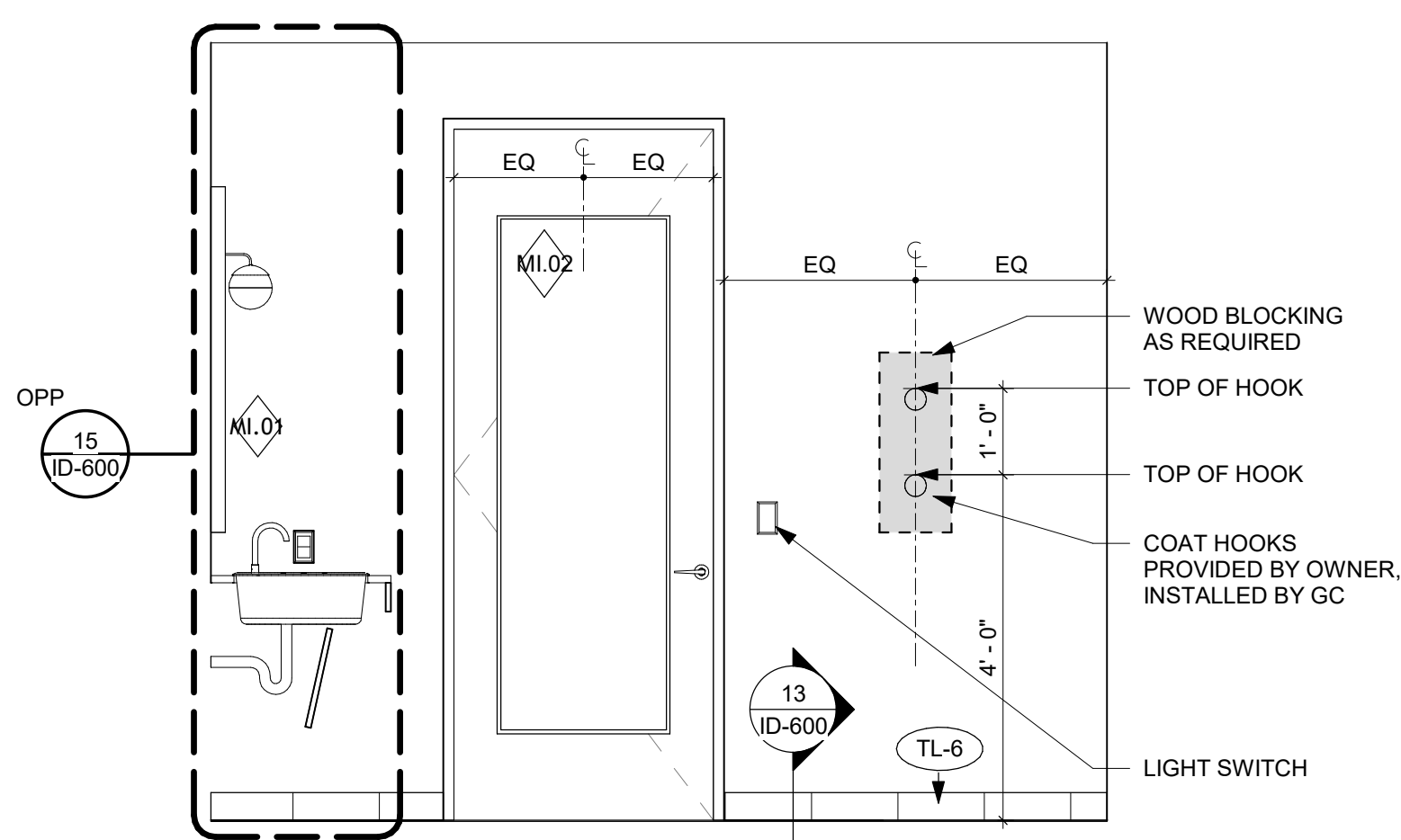
7 WOMENS SINK AND TOILET WALL
ID-600 SCALE: 1/2" = 1'-0"



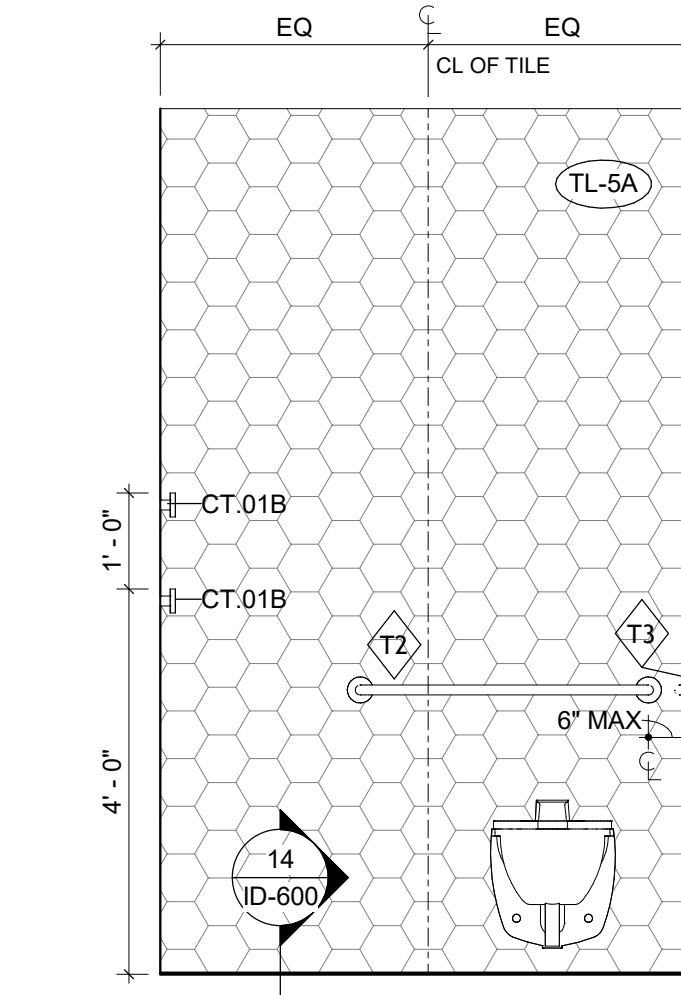
6 ENLARGED WOMENS RESTROOM PLAN
ID-600 SCALE: 1/2" = 1'-0"



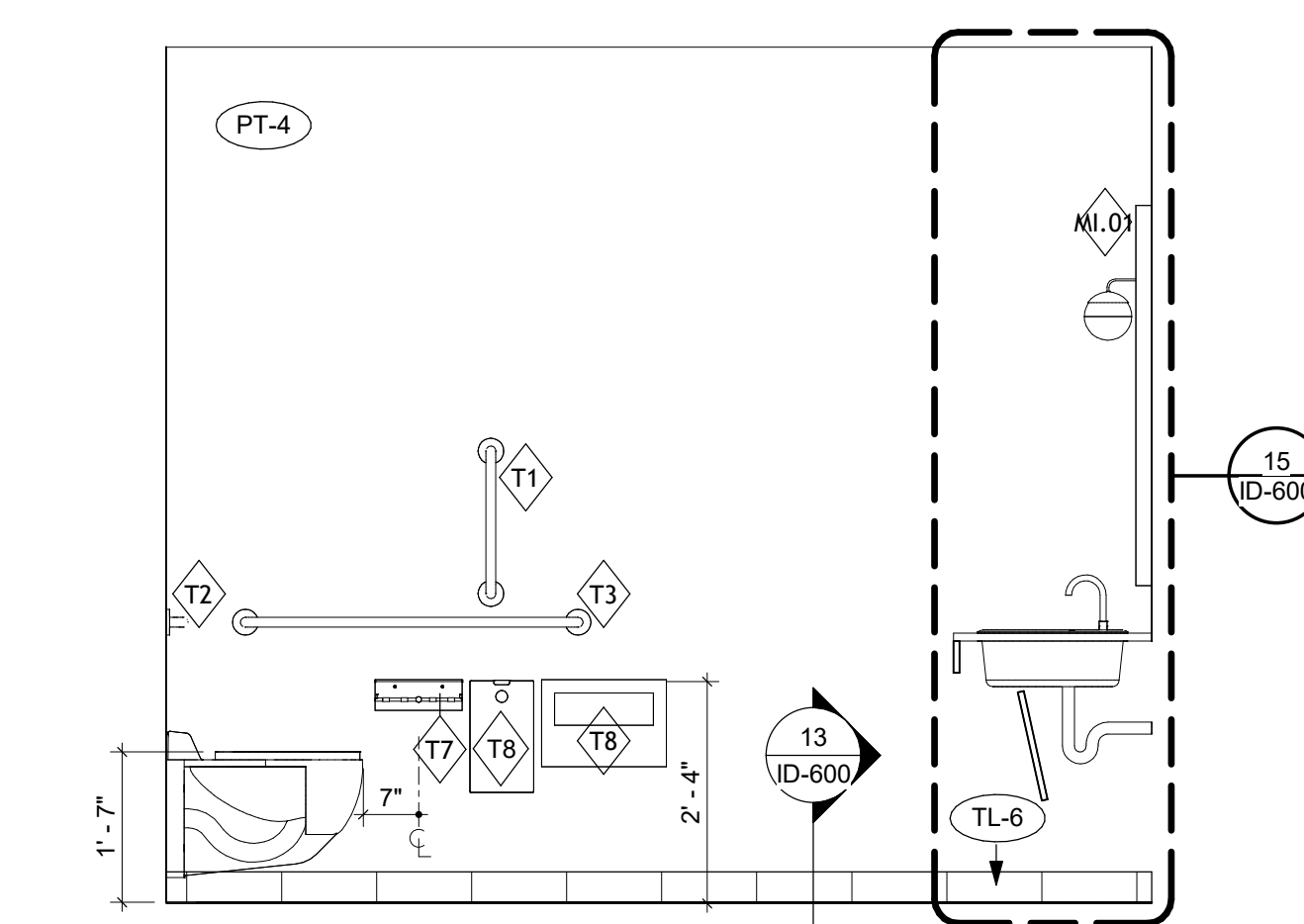
9 SIDE WALL
ID-600 SCALE: 1/2" = 1'-0"



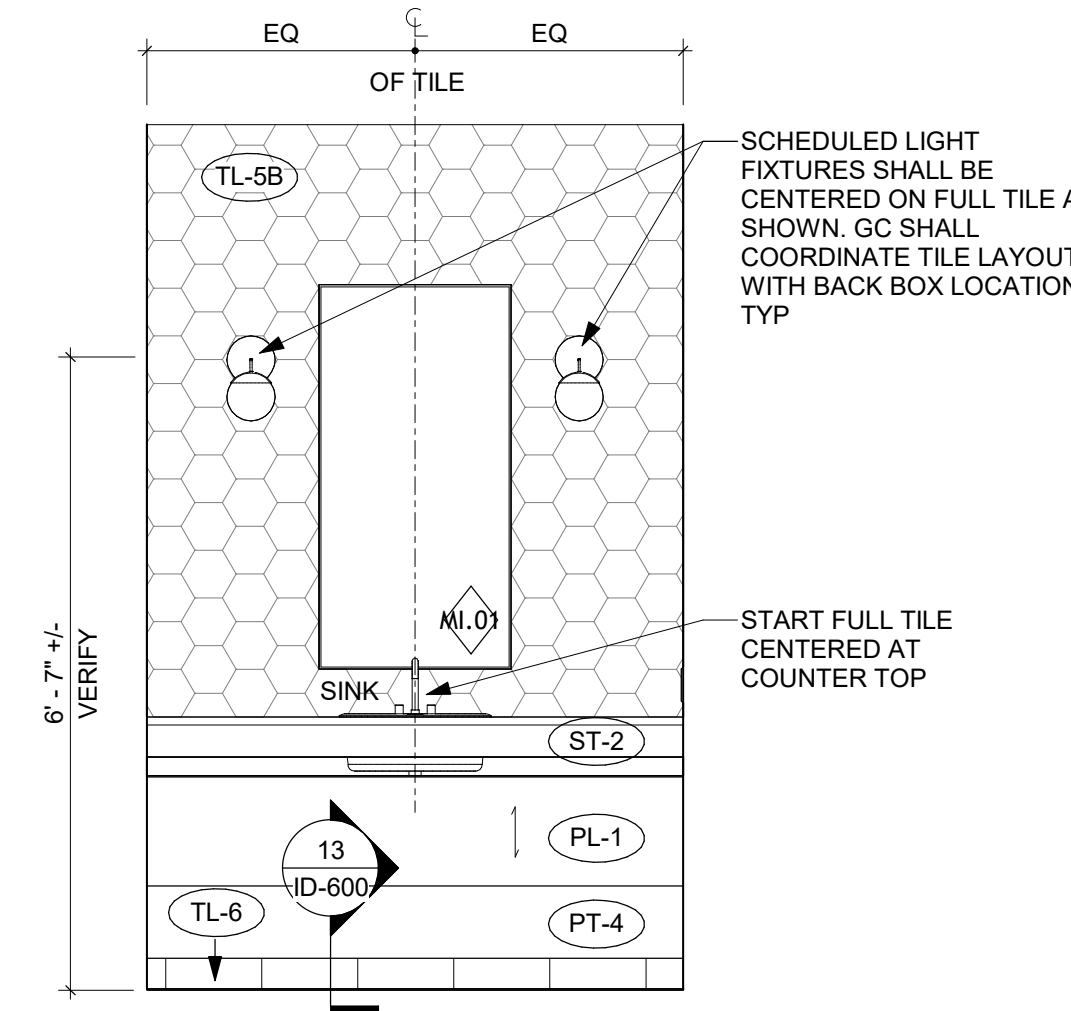
5 DOOR WALL
ID-600 SCALE: 1/2" = 1'-0"



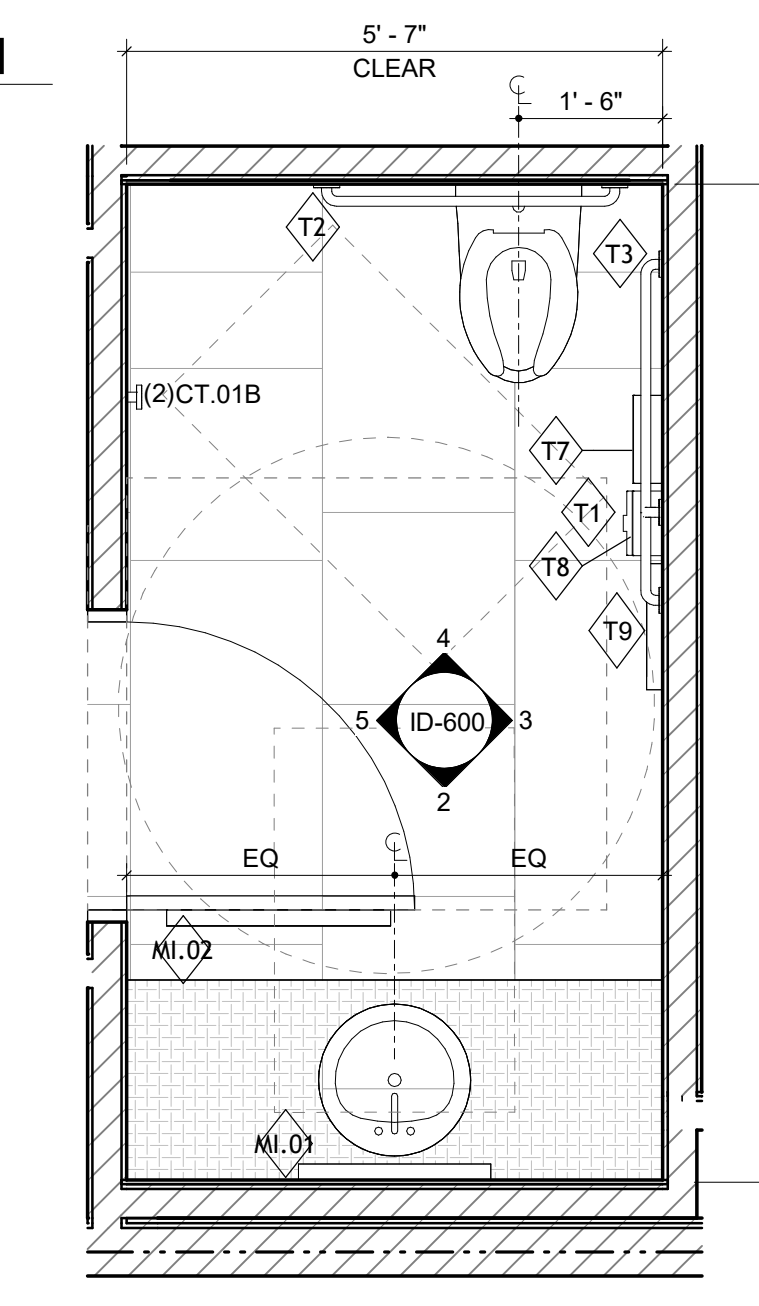
4 TOILET WALL
ID-600 SCALE: 1/2" = 1'-0"



3 SIDE WALL
ID-600 SCALE: 1/2" = 1'-0"



2 SINK WALL
ID-600 SCALE: 1/2" = 1'-0"



1 ENLARGED SINGLE USER RESTROOM PLAN
ID-600 SCALE: 1/2" = 1'-0"



12/20/2024



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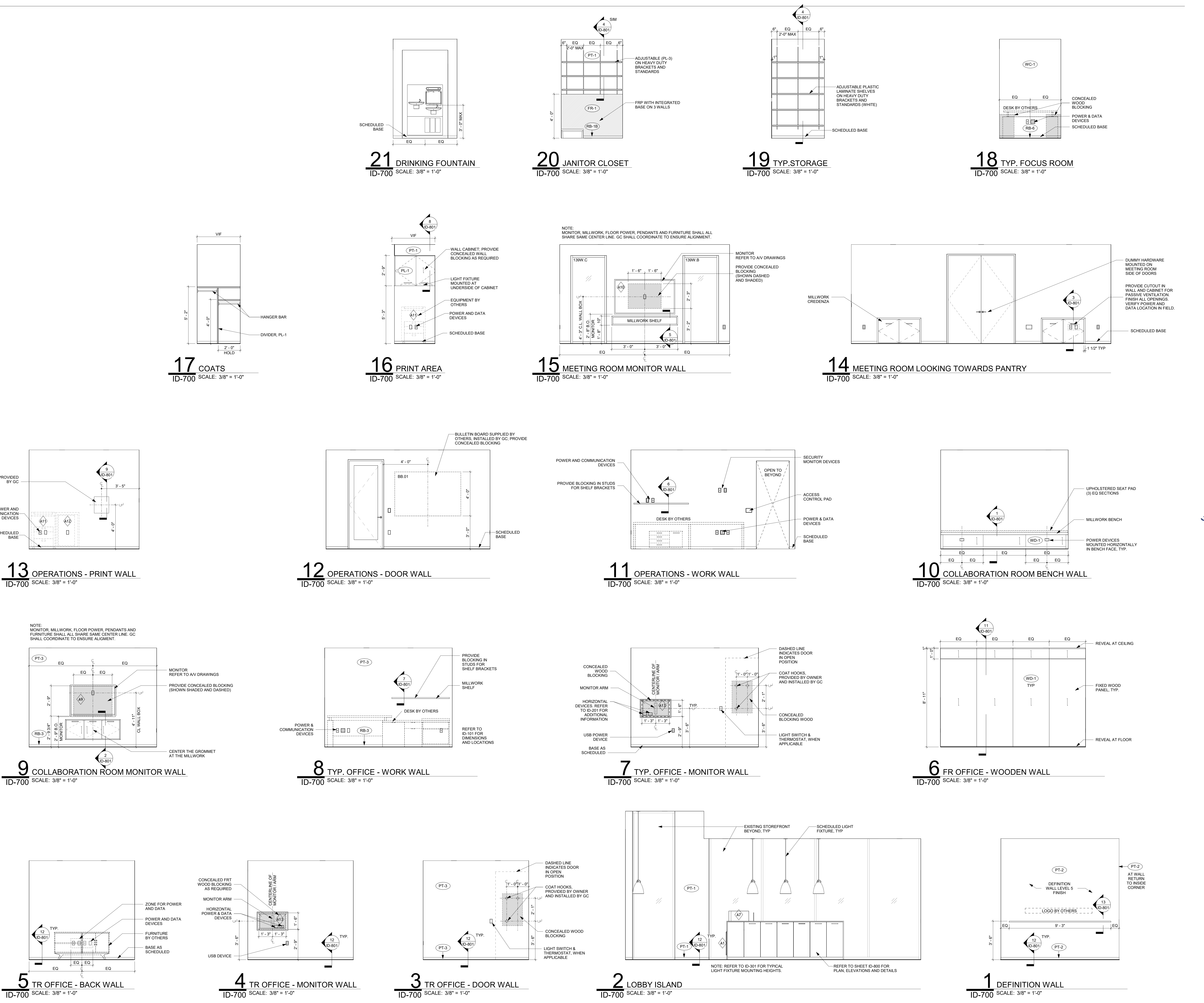
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Drawing Sheet Title:
**INTERIOR RESTROOM
PLANS, ELEVATIONS AND
DETAILS**

Drawing Sheet Number:
ID-600

Owner's Branch No:

General Notes:



Project Title:
Fidelity INVESTMENTS

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Suite R-120
Scottsdale, AZ 85254

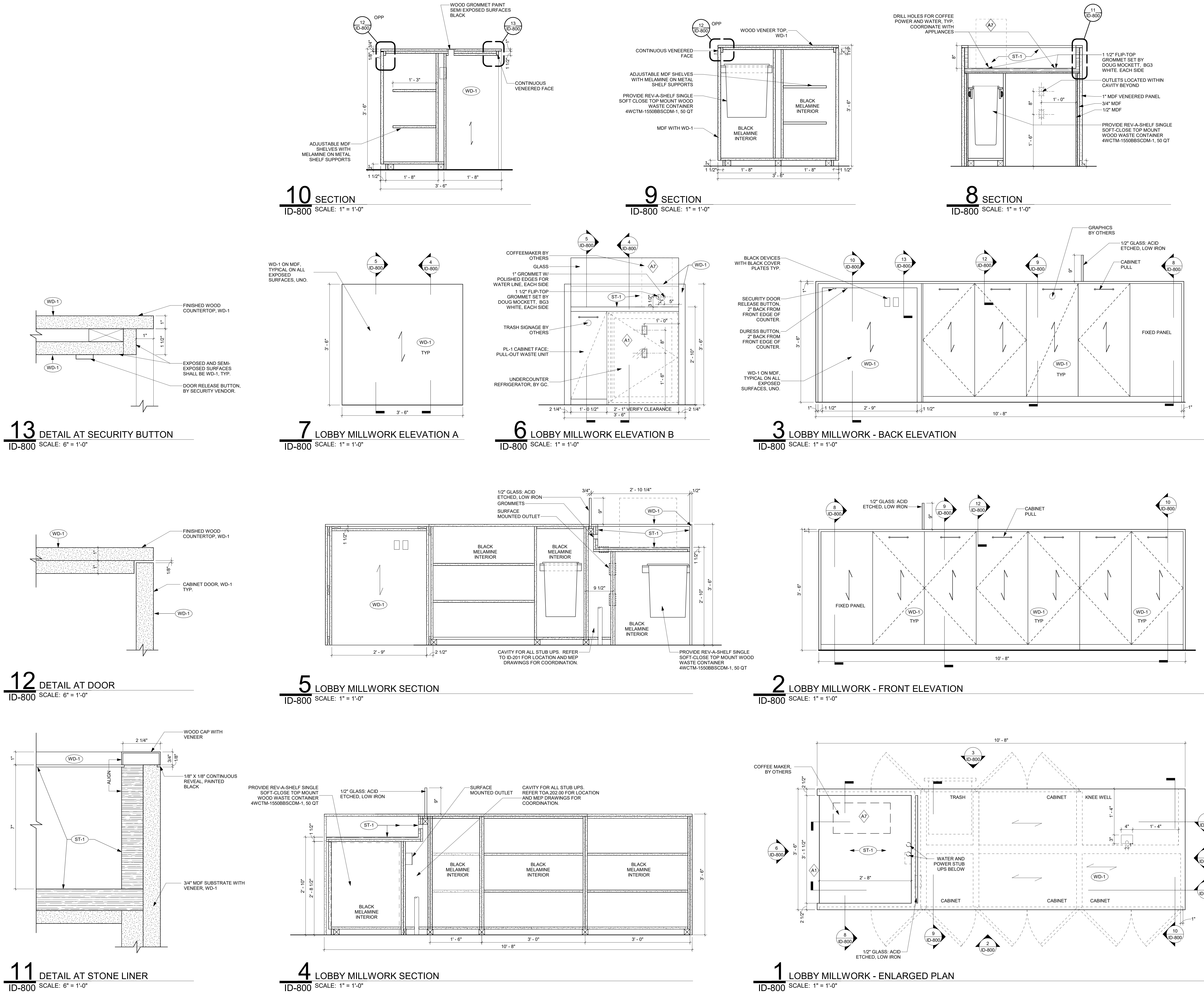
Number	Description	Date
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Project North
True North

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Drawing Sheet Title:
INTERIOR ELEVATIONS

Drawing Sheet Number:
ID-700
Owner's Branch No.:
134



Project Title:
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Number	Description	Date
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Key Plan: Project North True North

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Drawing Sheet Title:
INTERIOR LOBBY MILLWORK PLAN, ELEVATIONS AND DETAILS

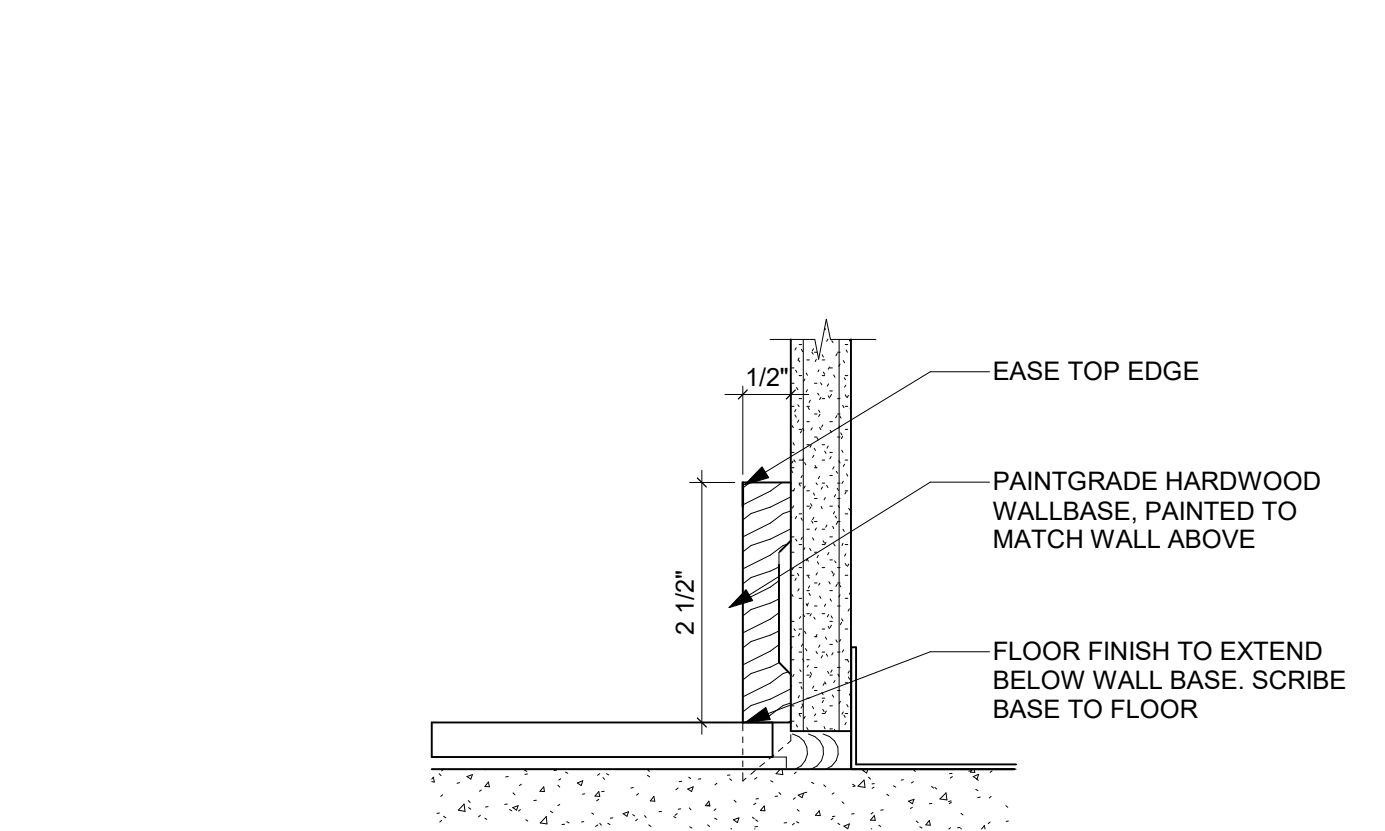
Drawing Sheet Number:
ID-800
Owner's Branch No.:
134

General Notes:

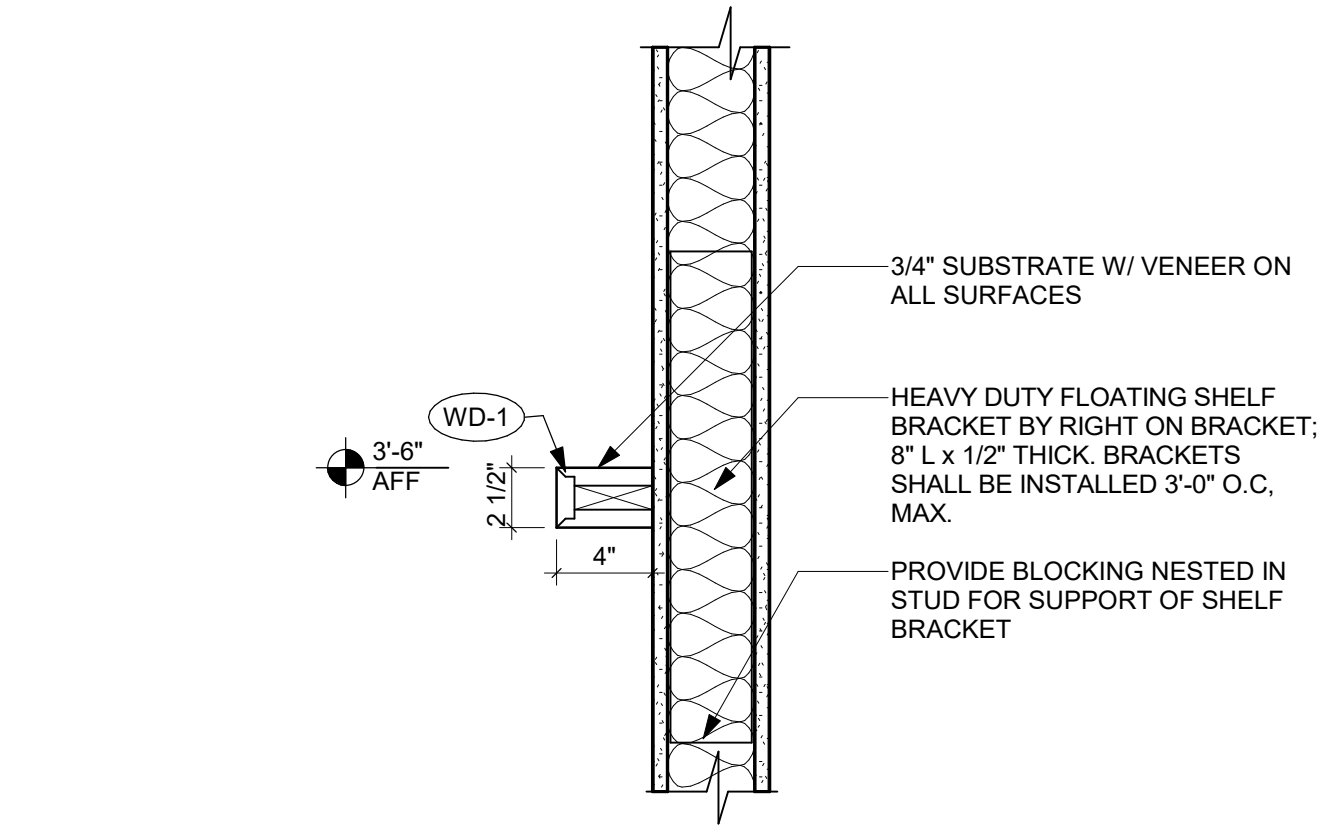


12/20/2024

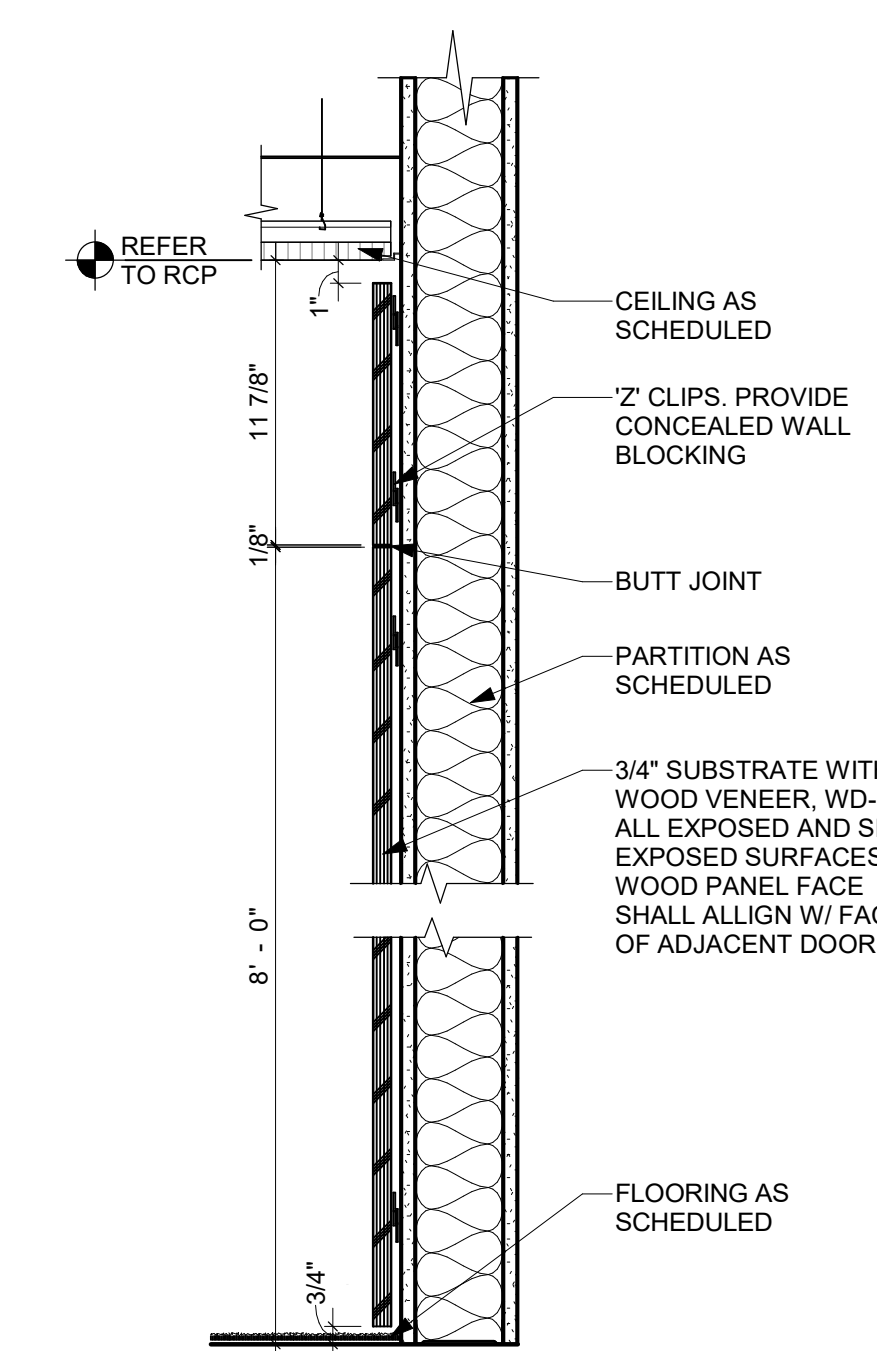
- FOR LOBBY ISLAND, ALL EXPOSED AND SEMI-EXPOSED SURFACES SHALL BE WOOD VENEER WD-1. ALL INTERIOR SURFACES SHALL BE BLACK, UNO.
- FOR MEETING AND COLLABORATION CREDENZAS, ALL EXPOSED AND SEMI-EXPOSED SURFACES SHALL BE WD-1. ALL INTERIOR SURFACES SHALL BE BLACK, UNO.
- FOR PANTRY, ALL EXPOSED AND SEMI-EXPOSED SURFACES SHALL BE PLASTIC LAMINATES PL-1. ALL INTERIOR SURFACES SHALL BE WHITE, UNO.
- COFFEE COUNTER SHALL BE STONE, ST-1. EASED EDGES TO BE 1/16" MAX.
- HINGES AT CABINET DOORS SHALL BE INSET BY HAZEL OR EQUAL AND SHALL BE SOFT CLOSE.
- CABINET PULL SHALL BE CENTERED ON WIDTH OF CABINET DOOR, HORIZONTAL MOUNTED, TYP. UNO. REFER TO ID-001.
- REFER TO DRAWING ID-020 FOR FINISH LEGEND.
- REFER TO ID-201 FOR EQUIPMENT LEGEND.
- ALL DRAWER SLIDES SHALL BE FULL EXTENSION, SOFT CLOSE.



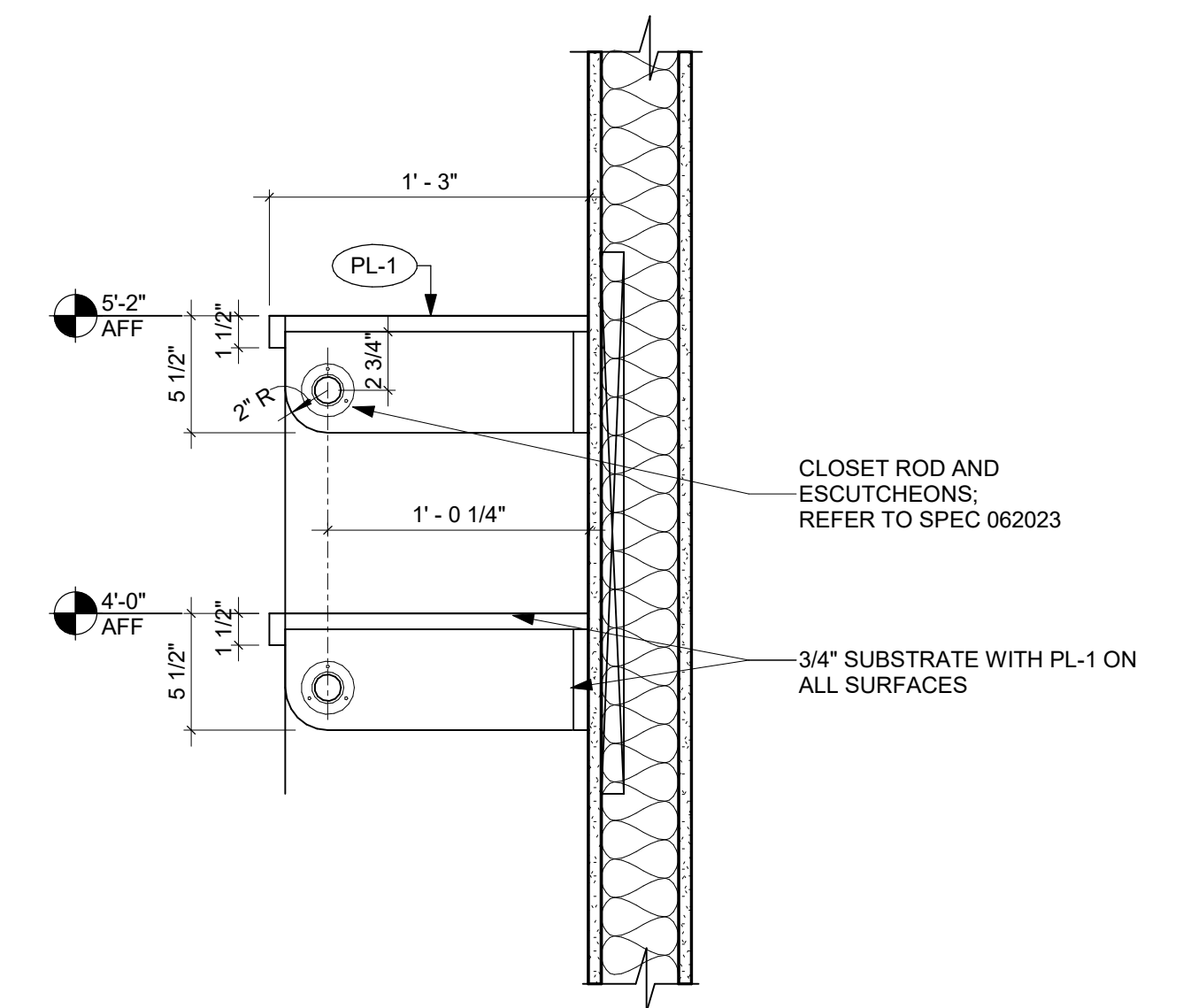
12 PAINT GRADE WOOD BASE
ID-801 SCALE: 6" = 1'-0"



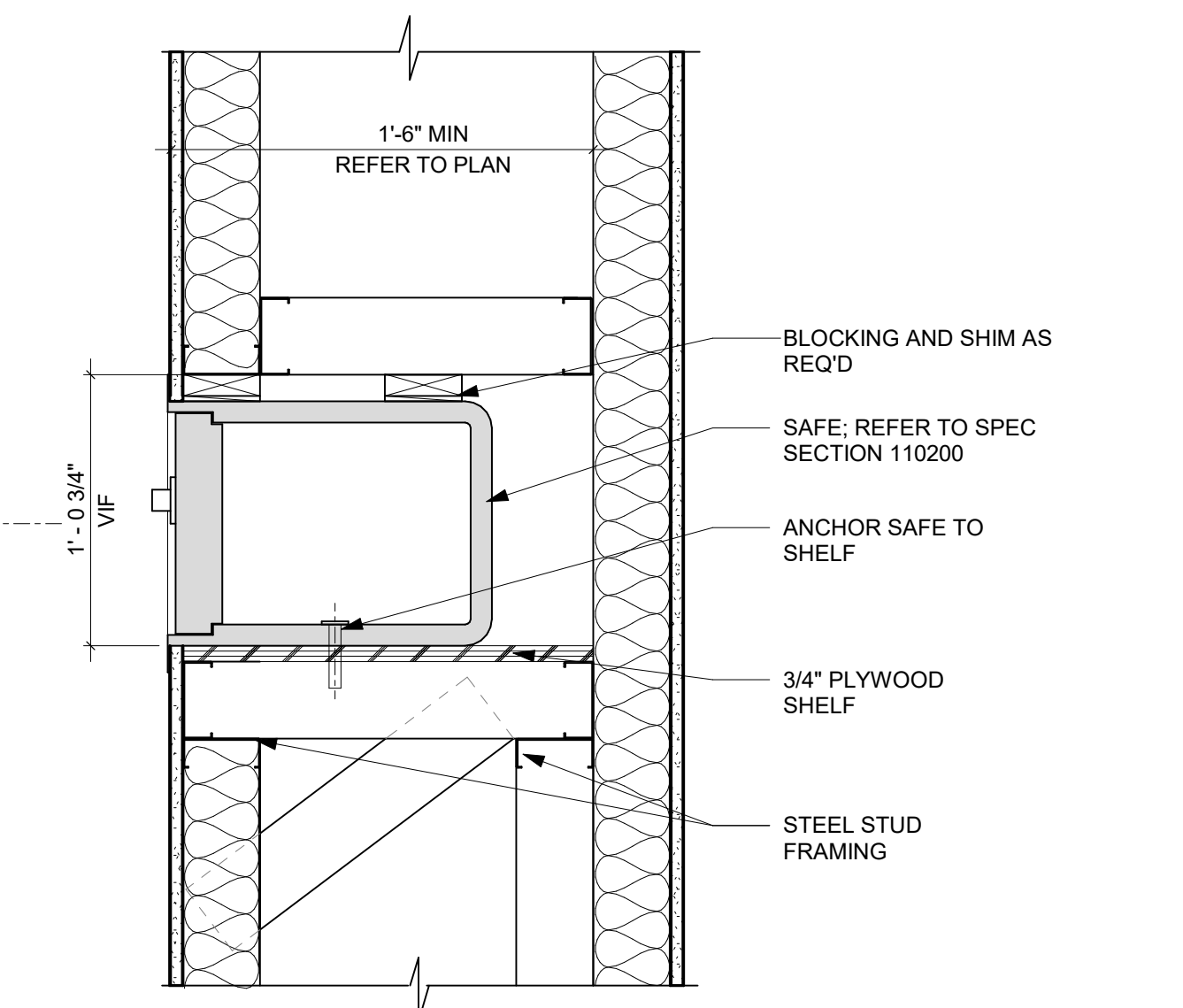
13 LEDGE AT LOGO WALL
ID-801 SCALE: 1 1/2" = 1'-0"



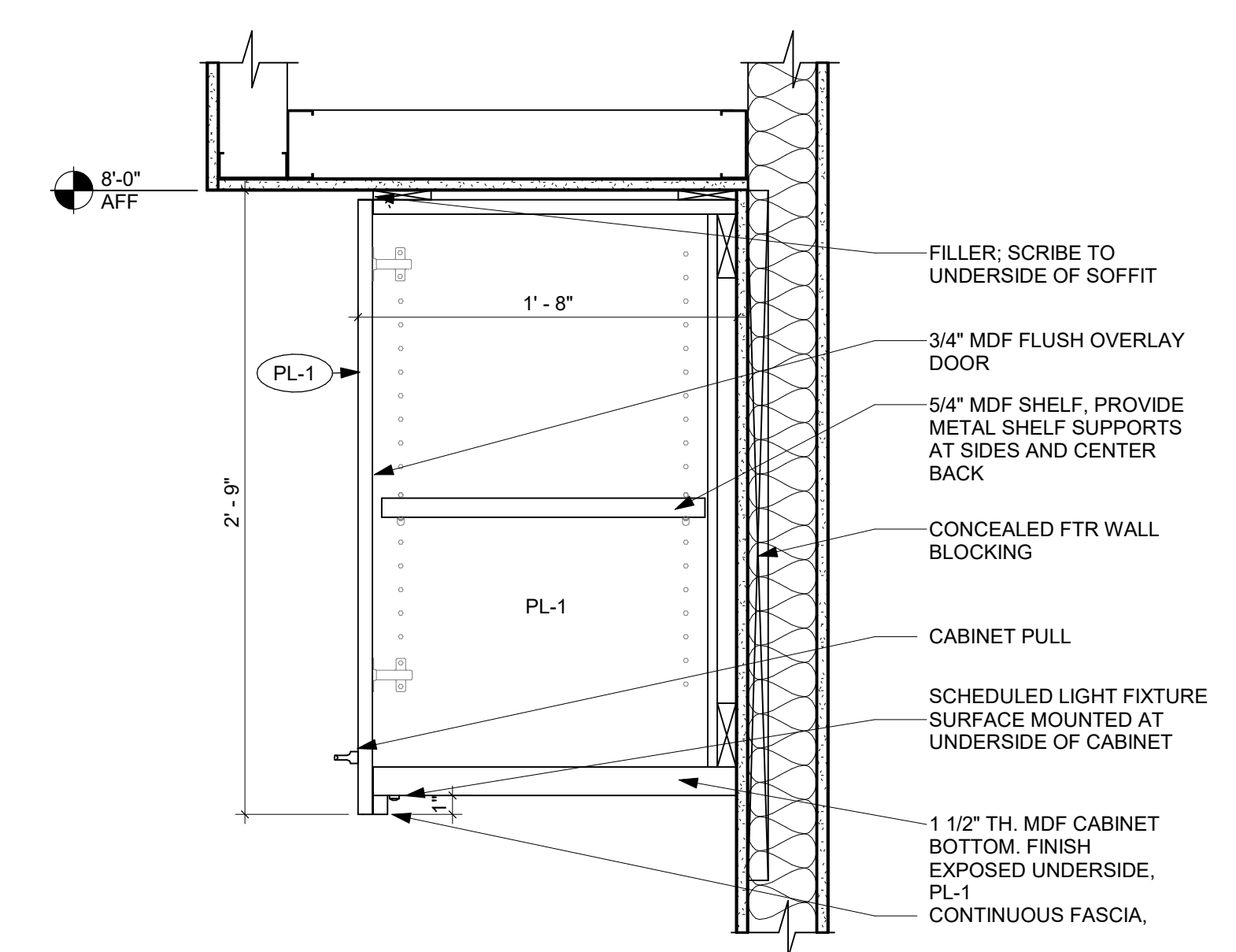
11 WOOD PANEL SECTION
ID-801 SCALE: 1 1/2" = 1'-0"



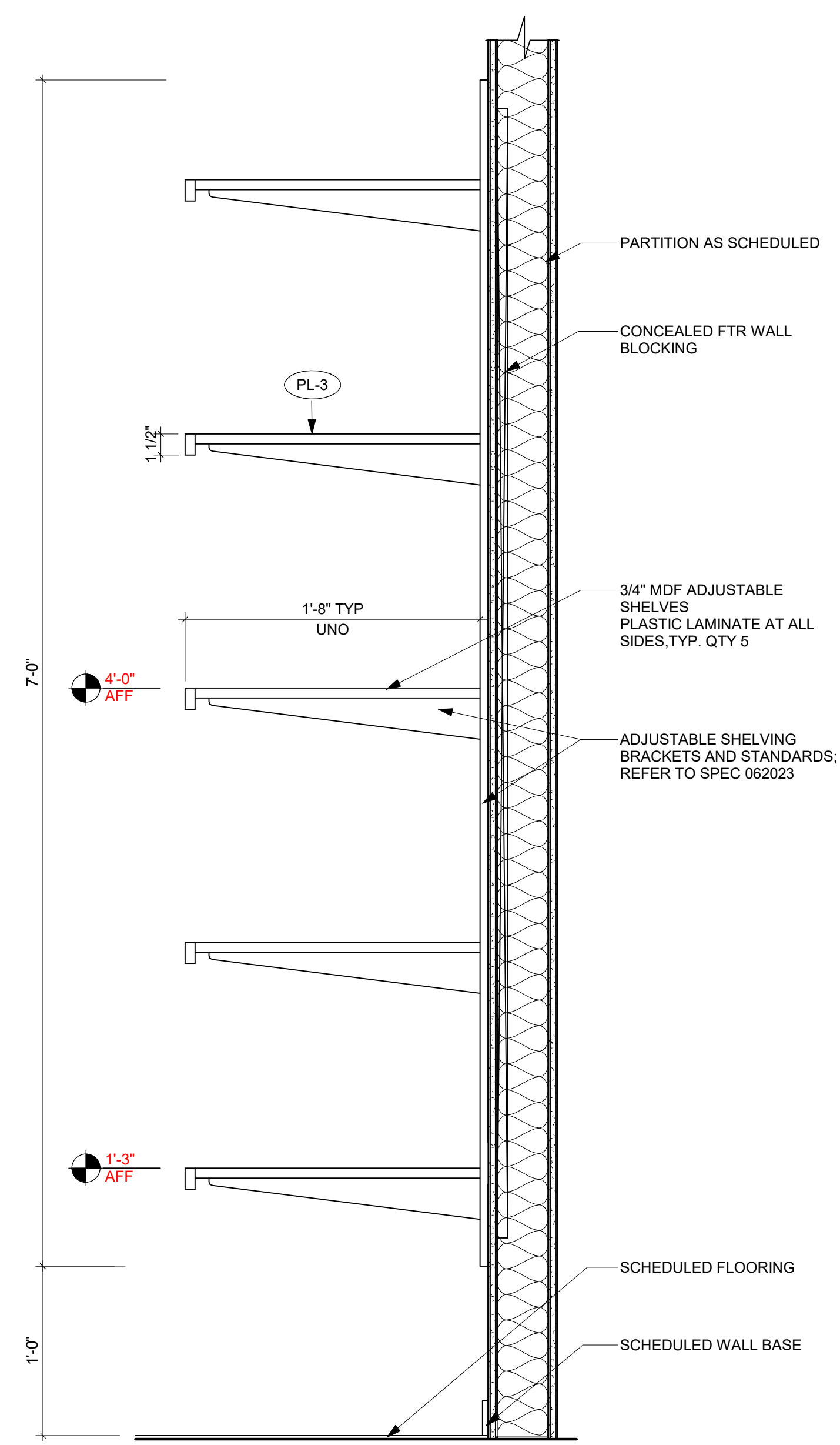
10 COAT ROD AND SHELF
ID-801 SCALE: 1 1/2" = 1'-0"



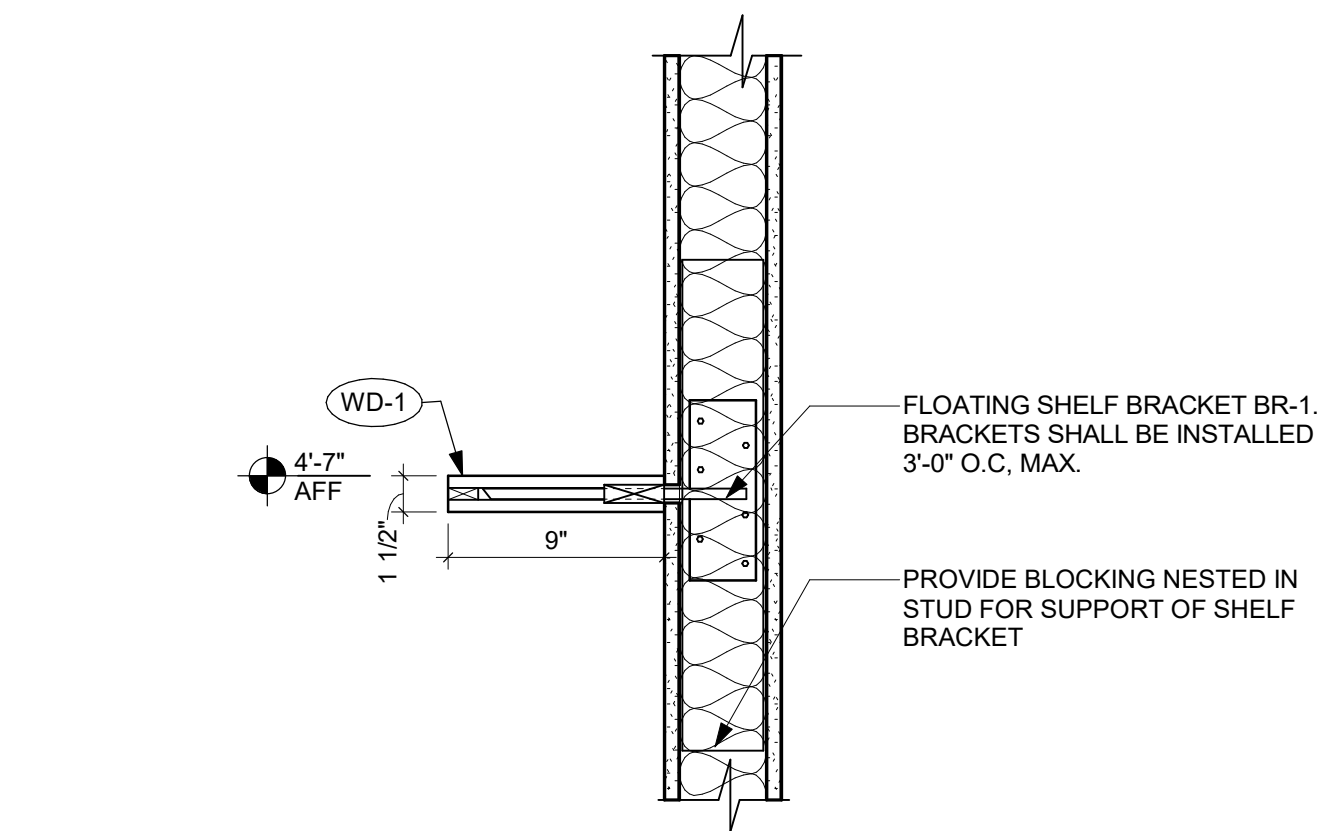
9 WALL MOUNTED SAFE
ID-801 SCALE: 1 1/2" = 1'-0"



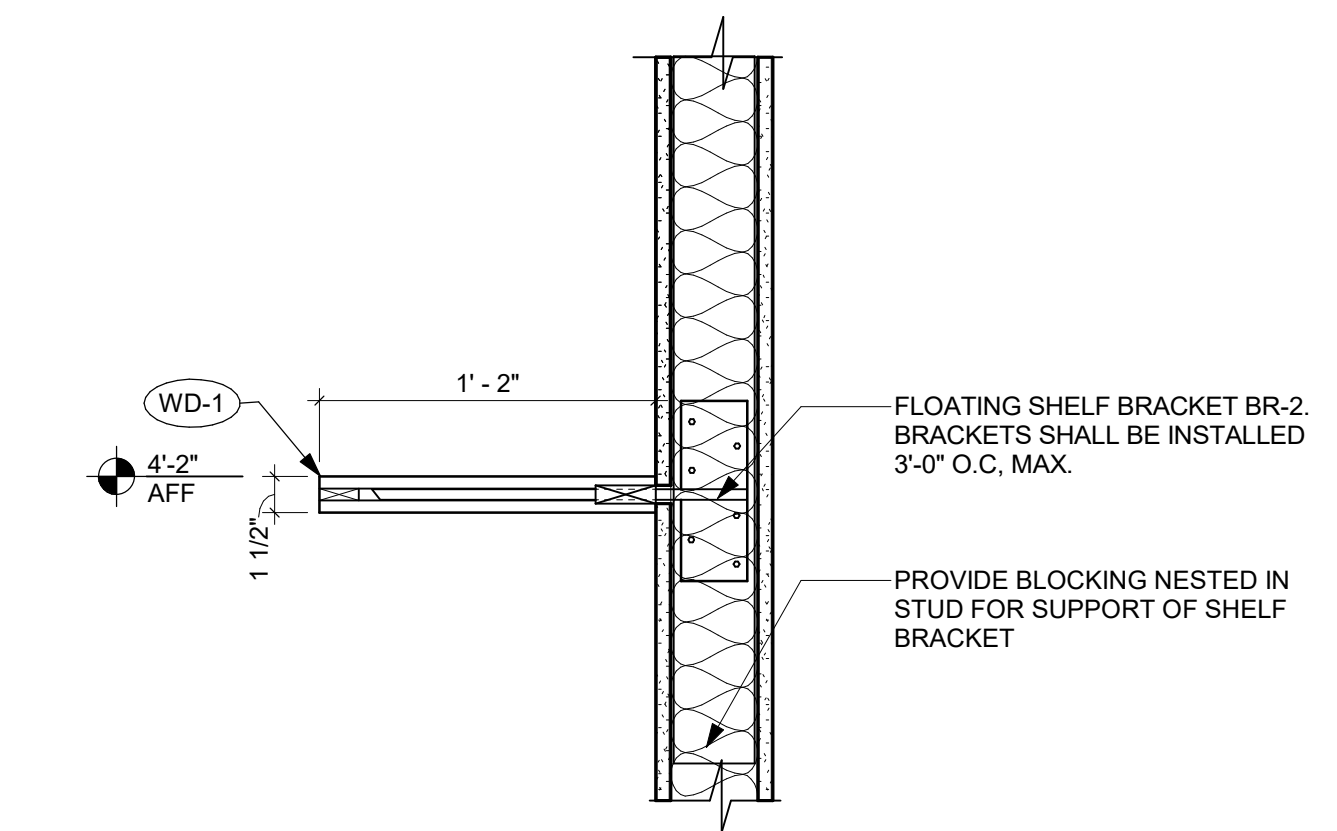
8 WALL CABINET AT PRINT AREA
ID-801 SCALE: 1 1/2" = 1'-0"



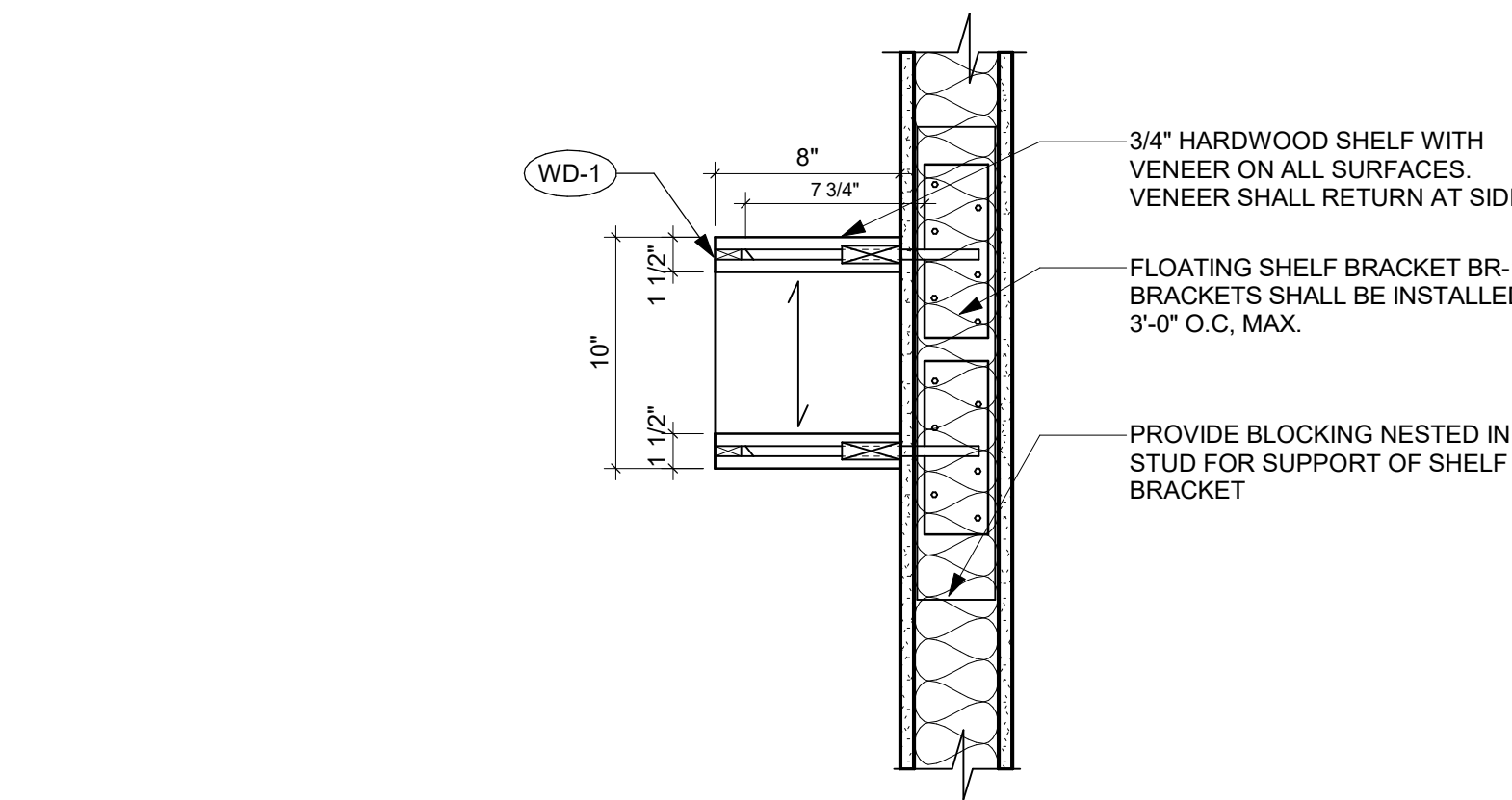
4 ADJUSTABLE SHELVES
ID-801 SCALE: 1 1/2" = 1'-0"



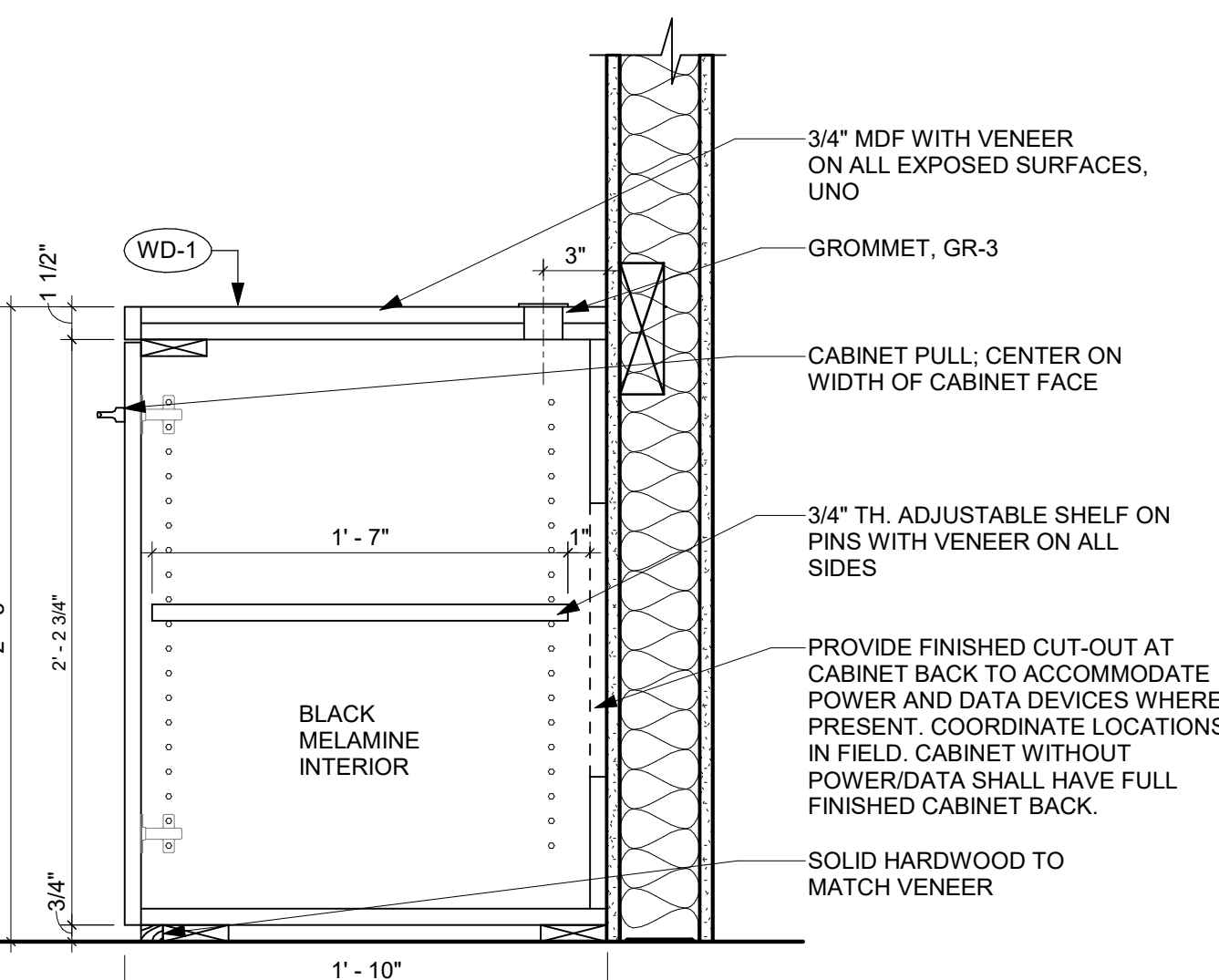
7 SHELF AT GUIDANCE OFFICE
ID-801 SCALE: 1 1/2" = 1'-0"



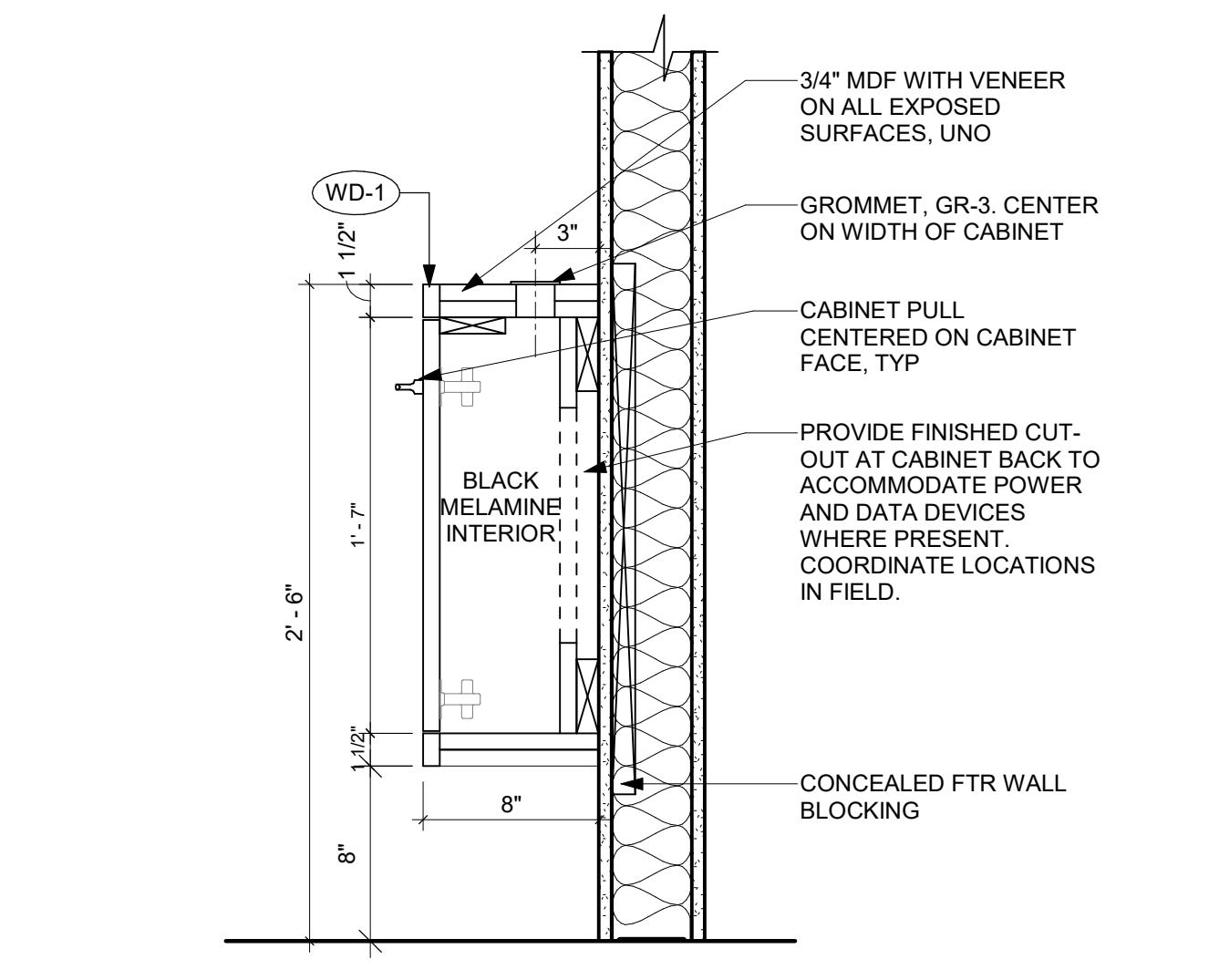
6 SHELF IN OPERATIONS
ID-801 SCALE: 1 1/2" = 1'-0"



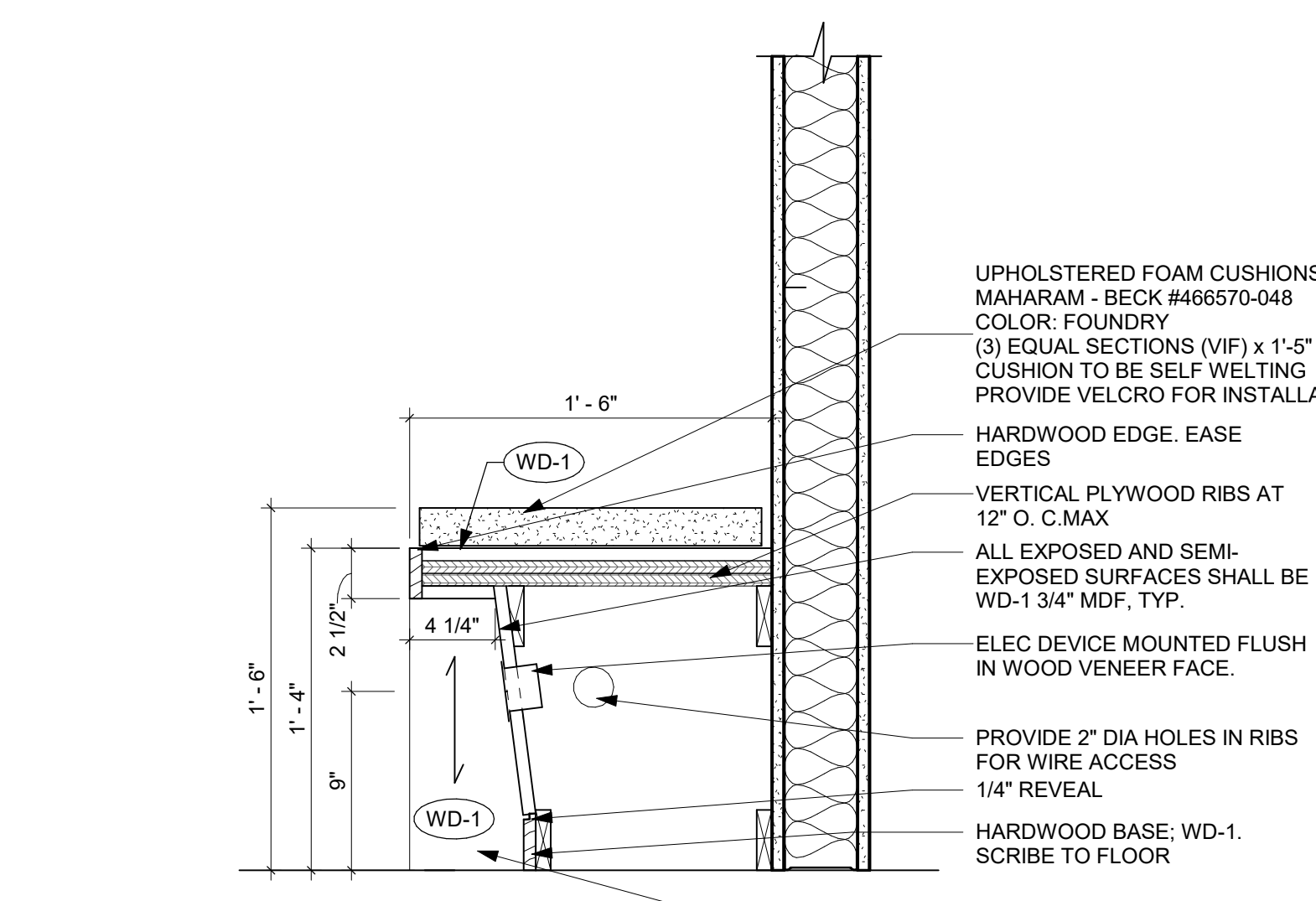
5 SHELF AT AV MONITORS
ID-801 SCALE: 1 1/2" = 1'-0"



3 CREENZA AT MEETING ROOM
ID-801 SCALE: 1 1/2" = 1'-0"



2 COLLABORATION CABINET
ID-801 SCALE: 1 1/2" = 1'-0"



1 COLLABORATION ROOM BENCH
ID-801 SCALE: 1 1/2" = 1'-0"

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Key Plan:



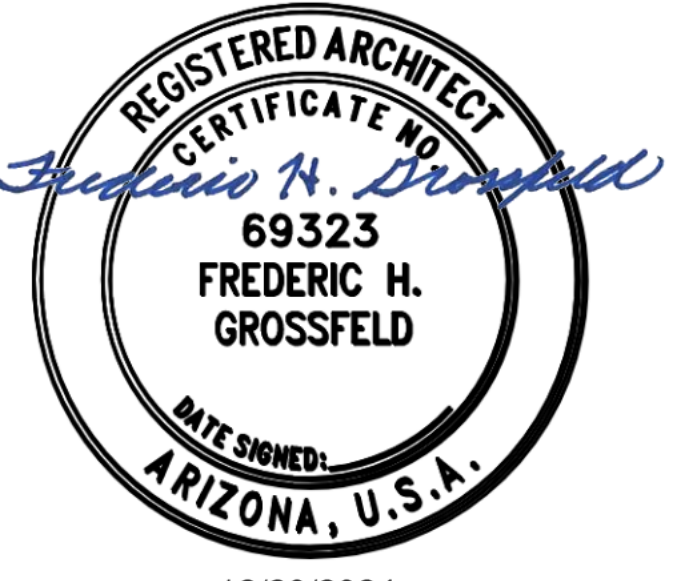
Project No.: K2812554 R06
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Drawing Sheet Title:
INTERIOR MILLWORK DETAILS

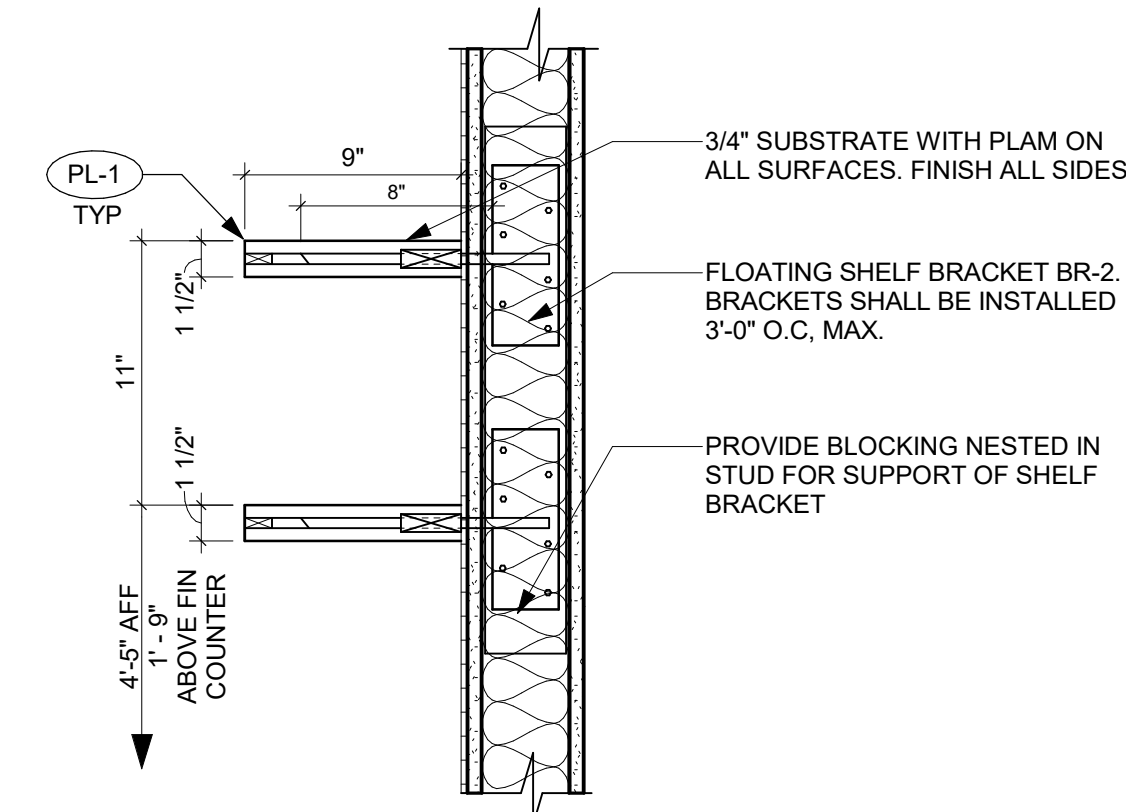
Drawing Sheet Number:

ID-801

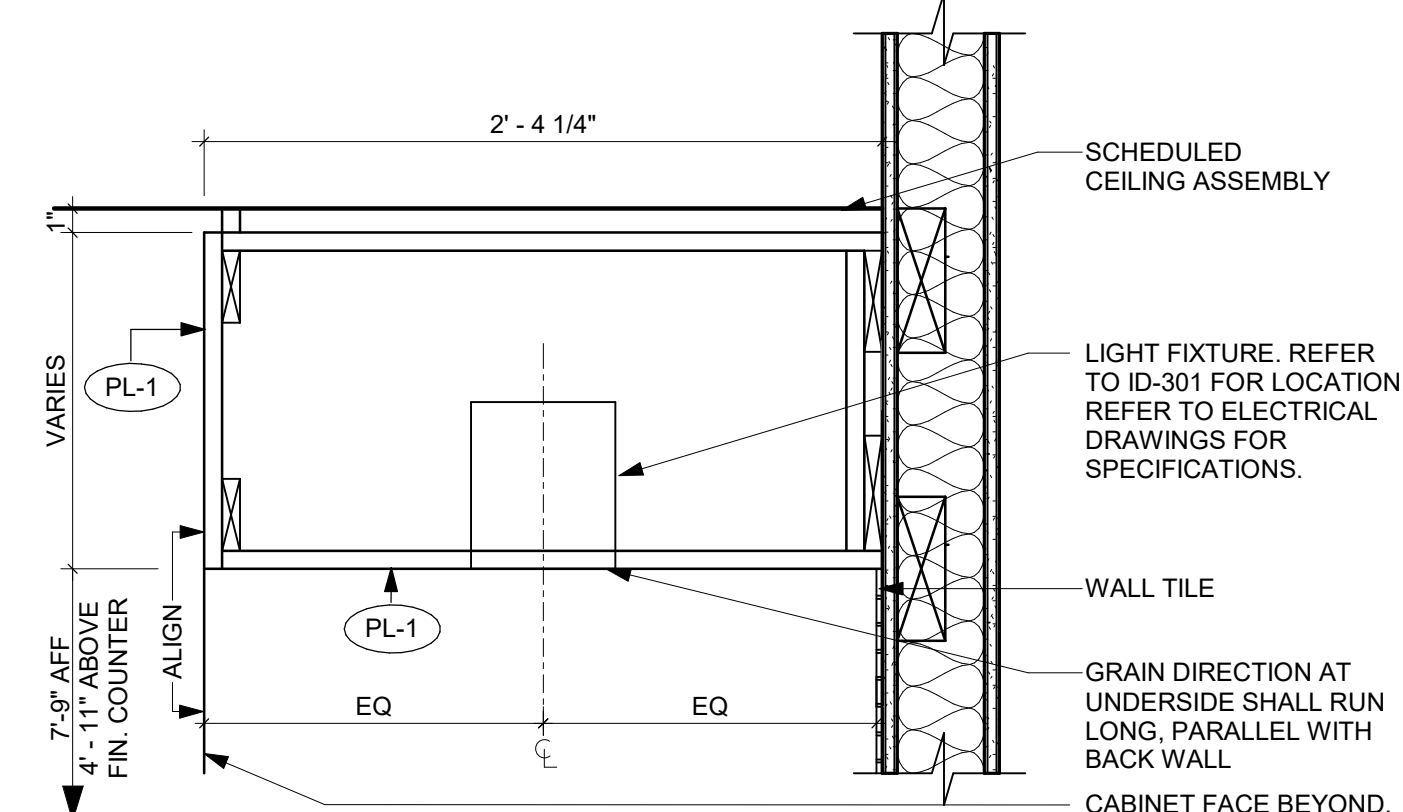
Owner's Branch No.:



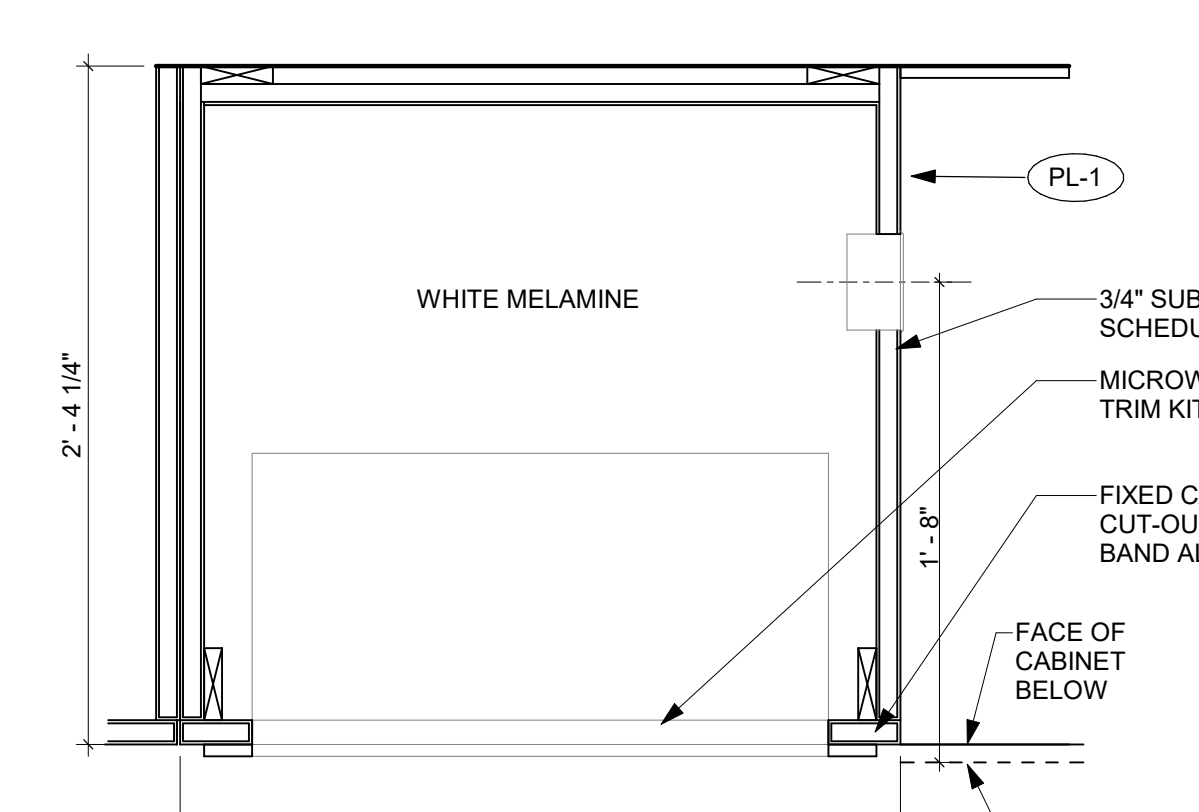
1. FOR LOBBY ISLAND, ALL EXPOSED AND SEMI-EXPOSED SURFACES SHALL BE WOOD VENEER WD-1. ALL INTERIOR SURFACES SHALL BE BLACK, UNO.
2. FOR MEETING AND COLLABORATION CREDENTIALS, ALL EXPOSED AND SEMI-EXPOSED SURFACES SHALL BE PLASTIC LAMINATES, PL-1. ALL INTERIOR SURFACES SHALL BE WHITE, UNO.
3. FOR PANTRY, ALL EXPOSED AND SEMI-EXPOSED SURFACES SHALL BE PLASTIC LAMINATES, PL-1. ALL INTERIOR SURFACES SHALL BE WHITE, UNO.
4. COFFEE COUNTER SHALL BE STONE, ST-1. BAVED EDGES TO BE 1/16" MAX.
5. HINGES AT CABINET DOORS SHALL BE INSET BY HAFELE OR EQUAL AND SHALL BE SOFT CLOSE.
6. CABINET PULL SHALL BE CENTERED ON WIDTH OF CABINET DOOR, HORIZONTAL MOUNTED, TYP. UNO. REFER TO ID-001.
7. REFER TO DRAWING ID-520 FOR FINISH LEGEND.
8. REFER TO ID-201 FOR EQUIPMENT LEGEND.
9. ALL DRAWER SLIDES SHALL BE FULL EXTENSION, SOFT CLOSE.



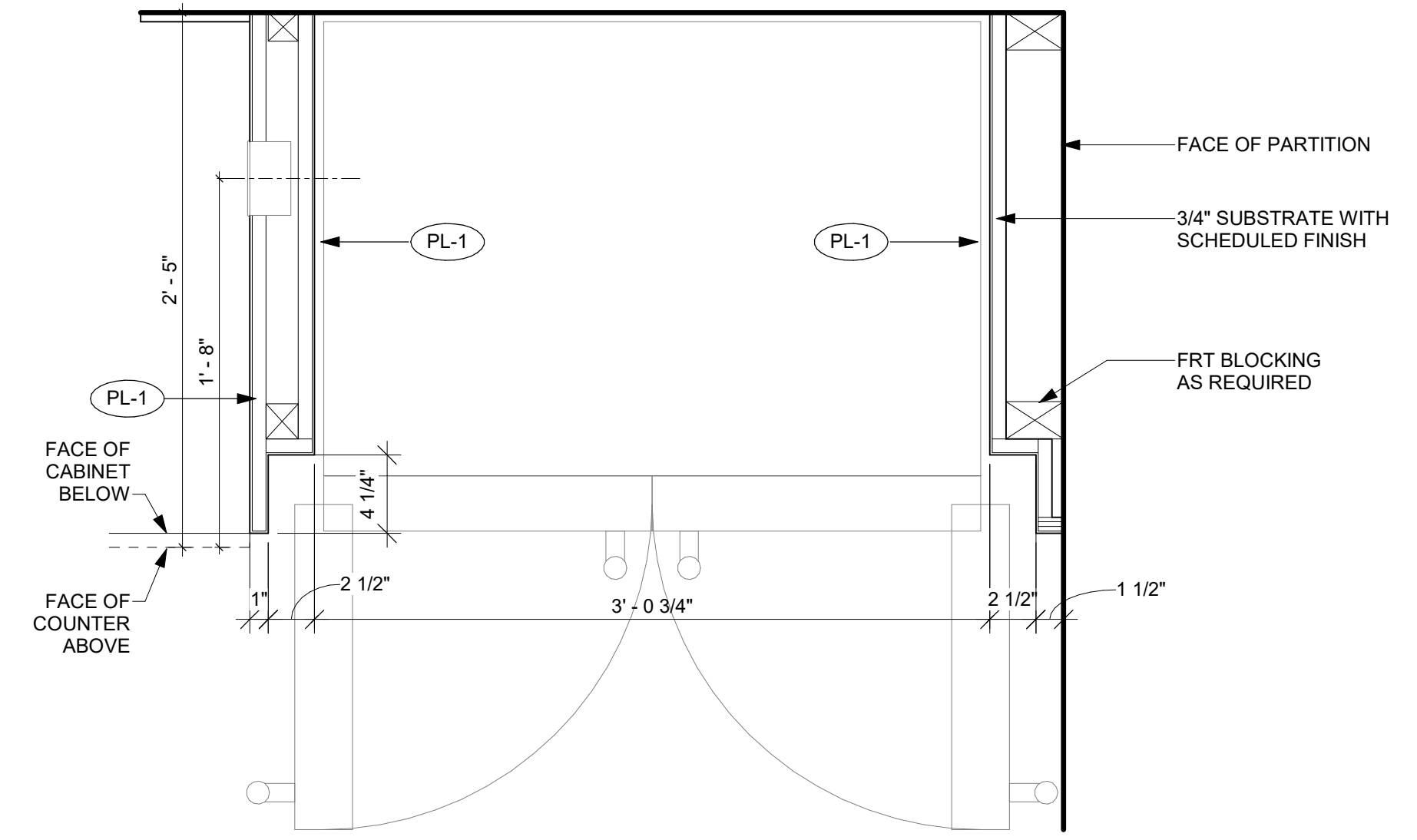
14 FIXED SHELVING
ID-802 SCALE: 1 1/2" = 1'-0"



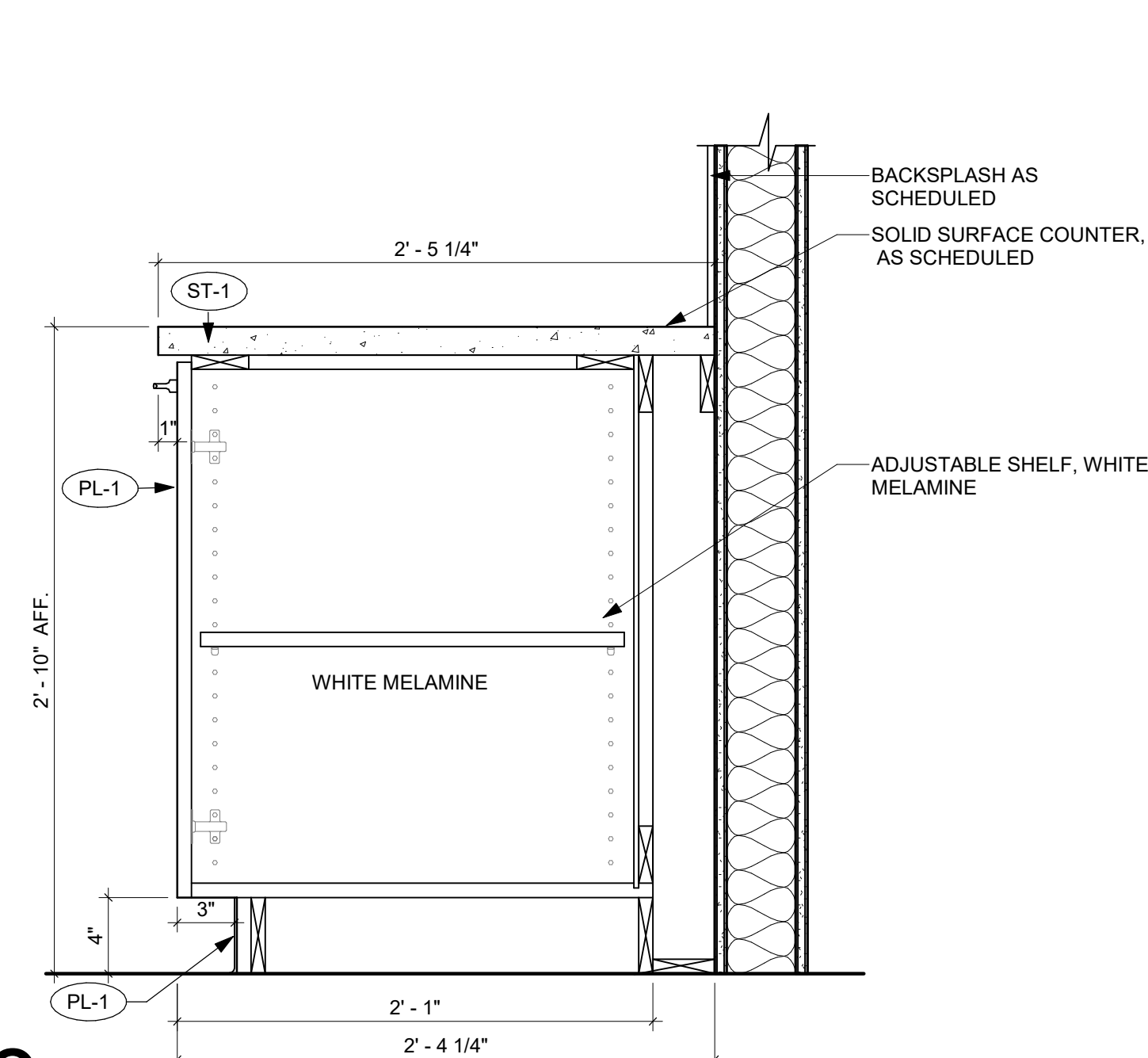
13 BULKHEAD
ID-802 SCALE: 1 1/2" = 1'-0"



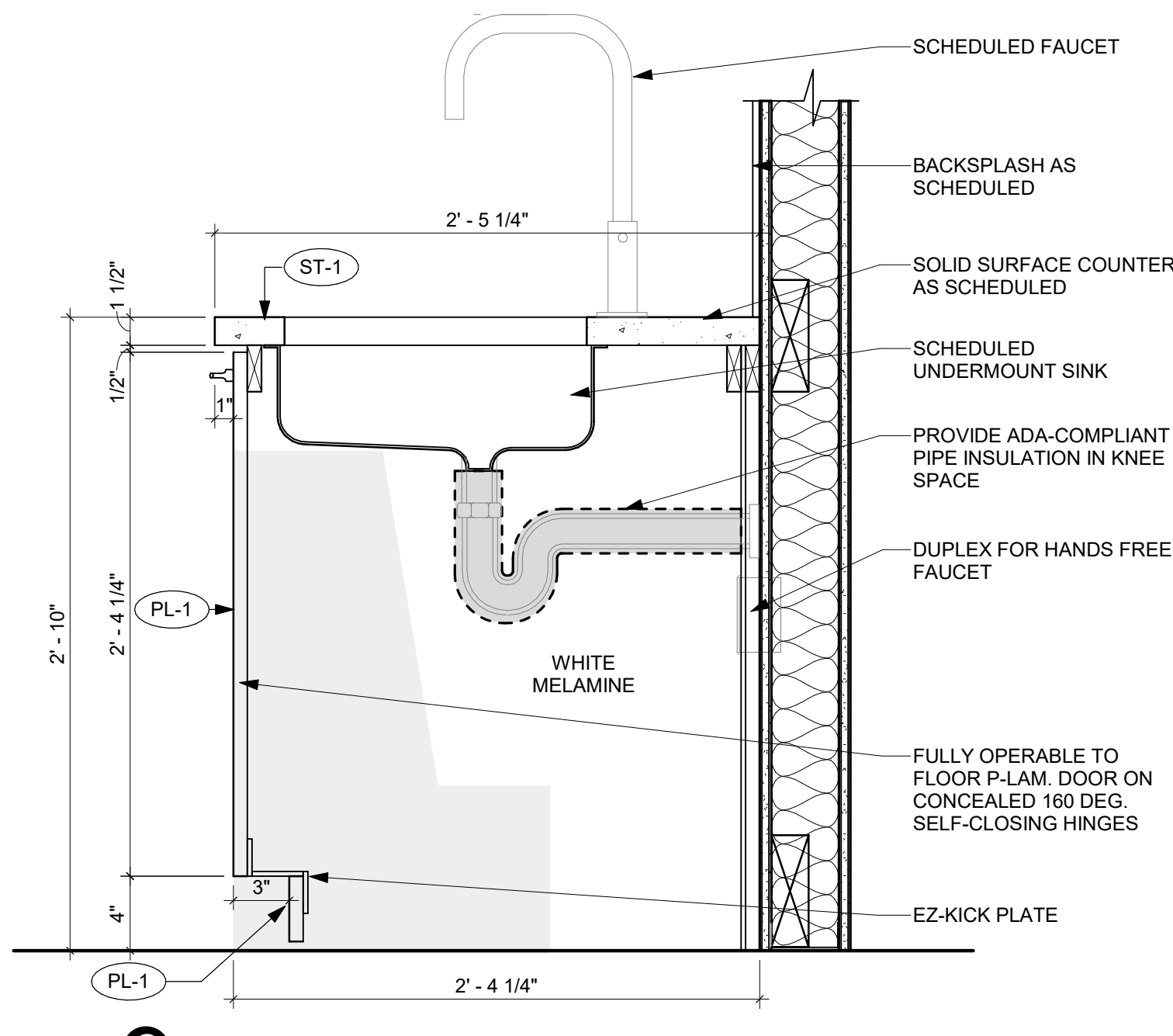
12 STORAGE CABINET
ID-802 SCALE: 1 1/2" = 1'-0"



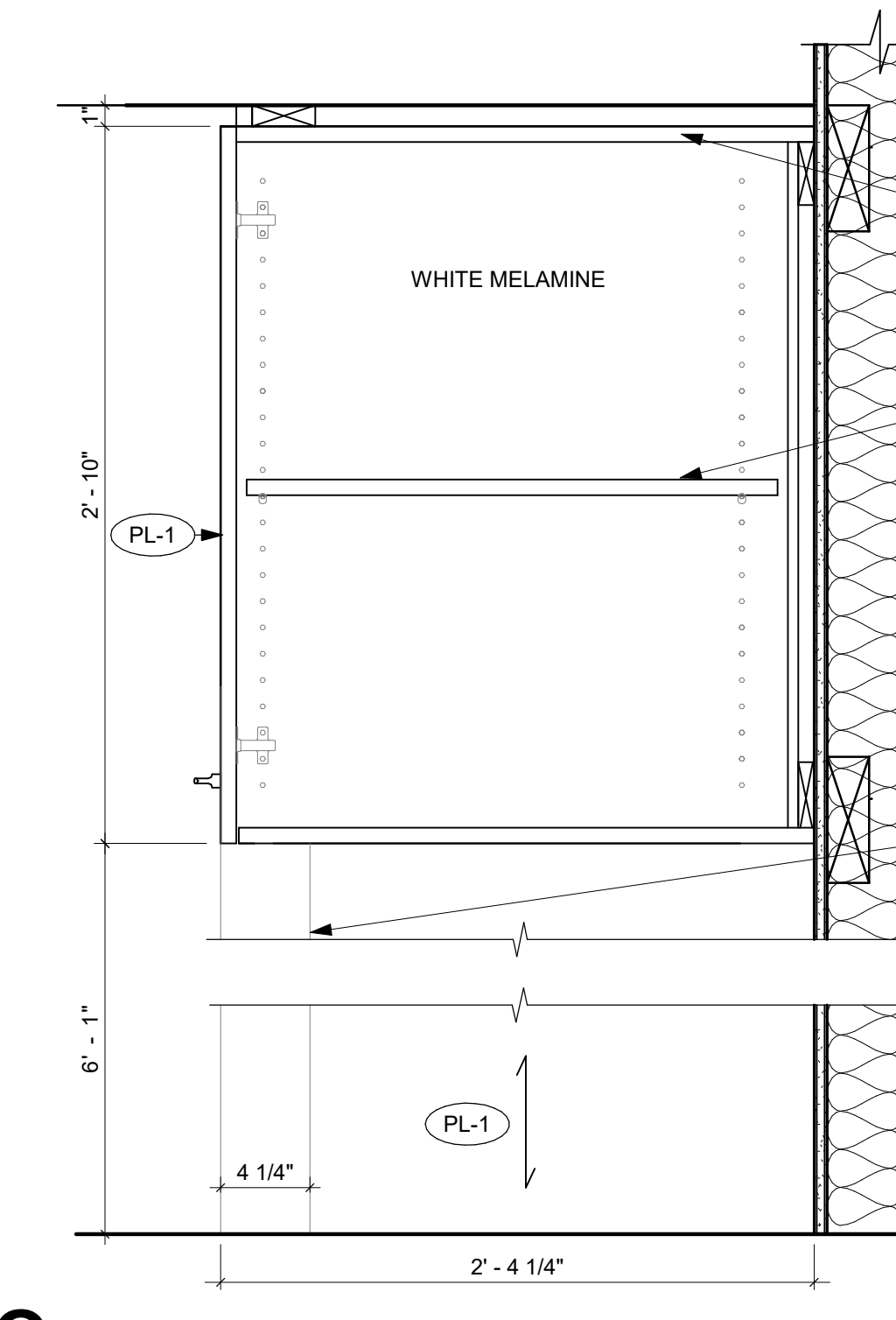
11 ENLARGED PLAN AT REFRIGERATOR CABINET
ID-802 SCALE: 1 1/2" = 1'-0"



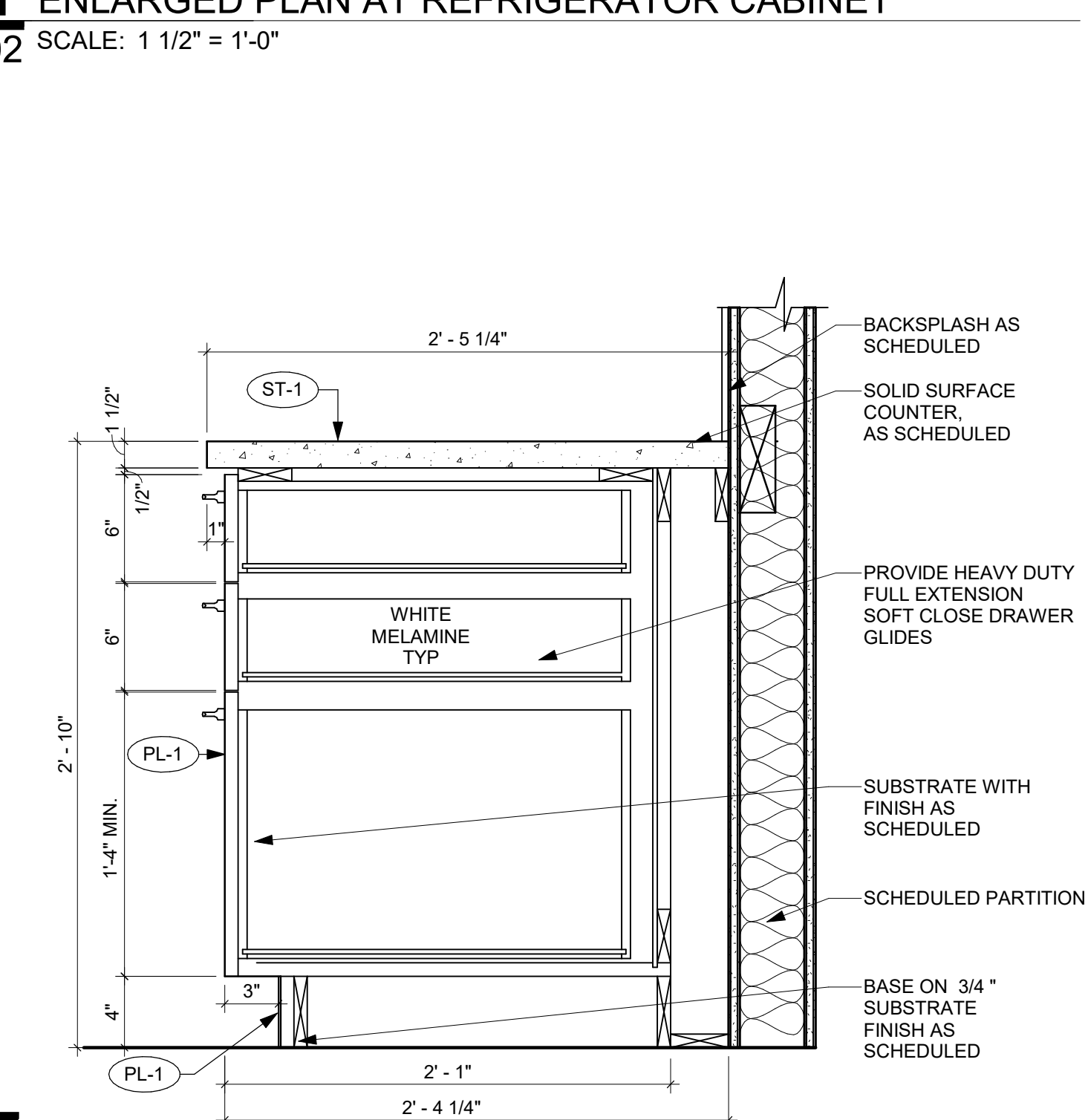
10 BASE CABINET
ID-802 SCALE: 1 1/2" = 1'-0"



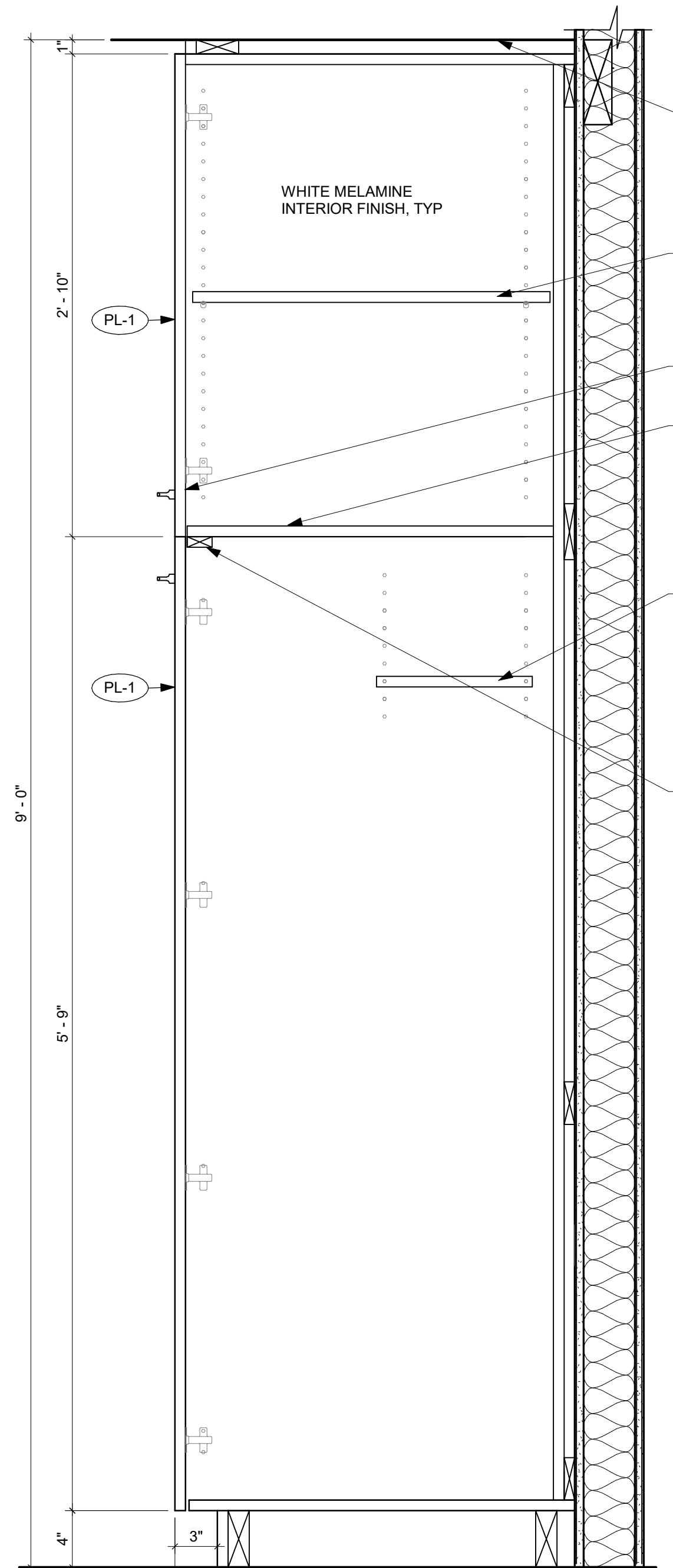
9 BASE CABINET AT SINK
ID-802 SCALE: 1 1/2" = 1'-0"



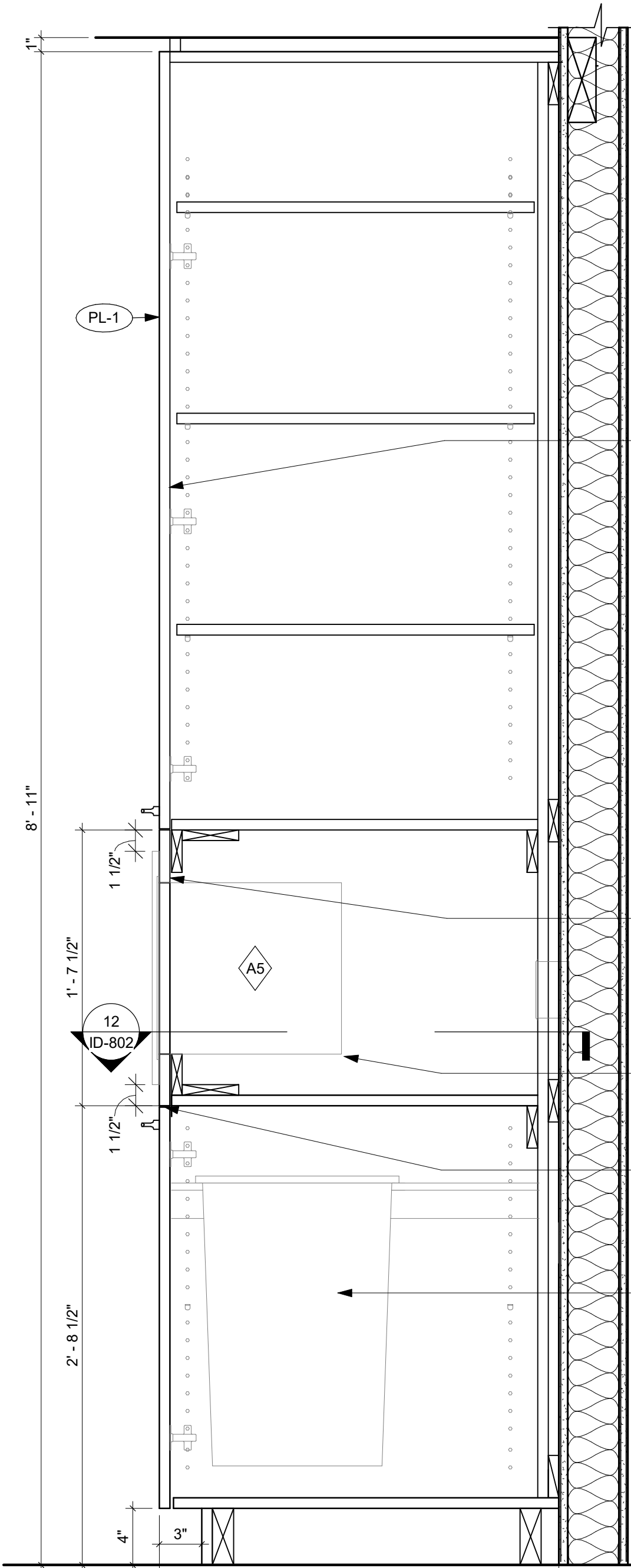
8 WALL CABINET OVER REFRIGERATOR
ID-802 SCALE: 1 1/2" = 1'-0"



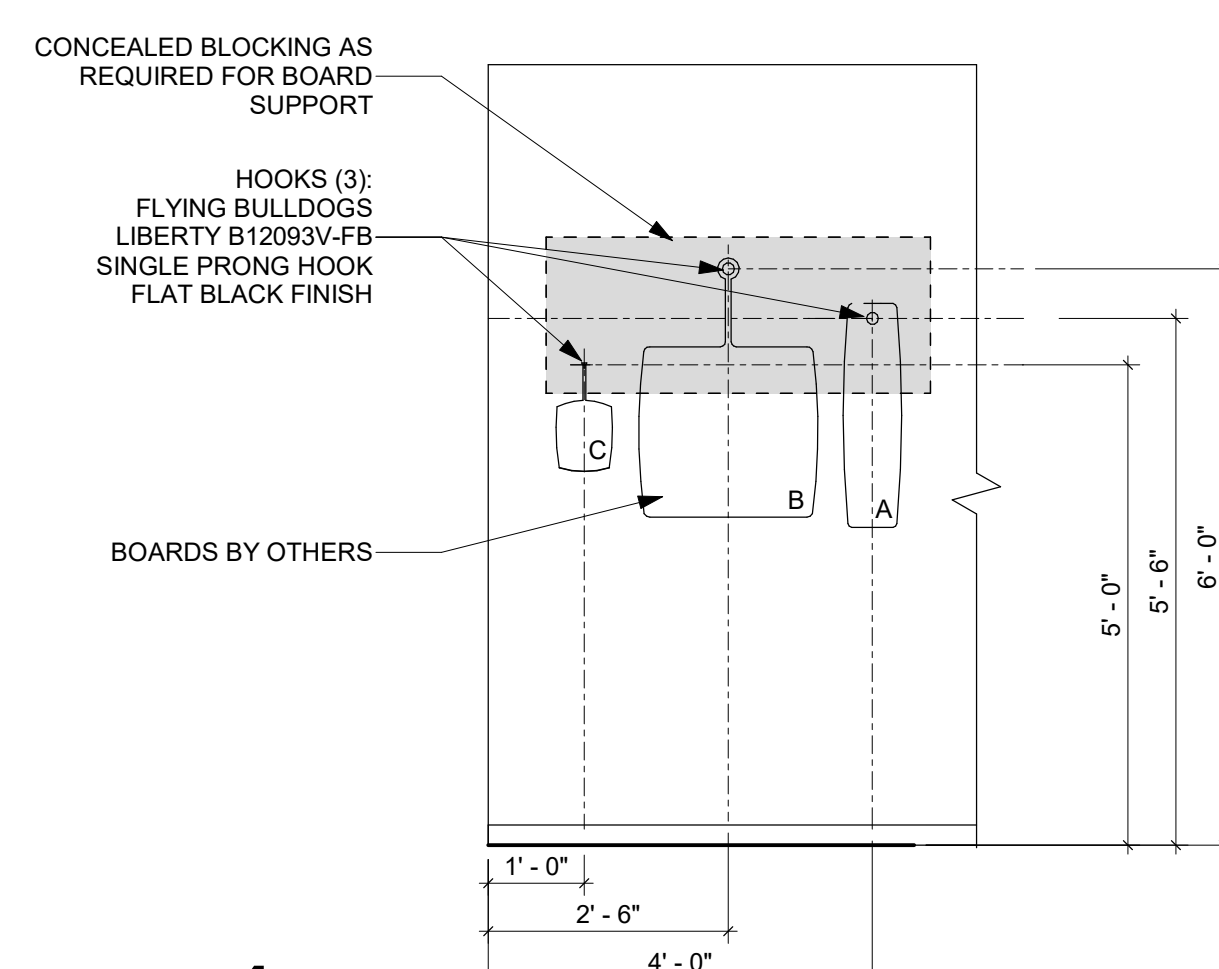
7 BASE CABINET WITH DRAWERS
ID-802 SCALE: 1 1/2" = 1'-0"



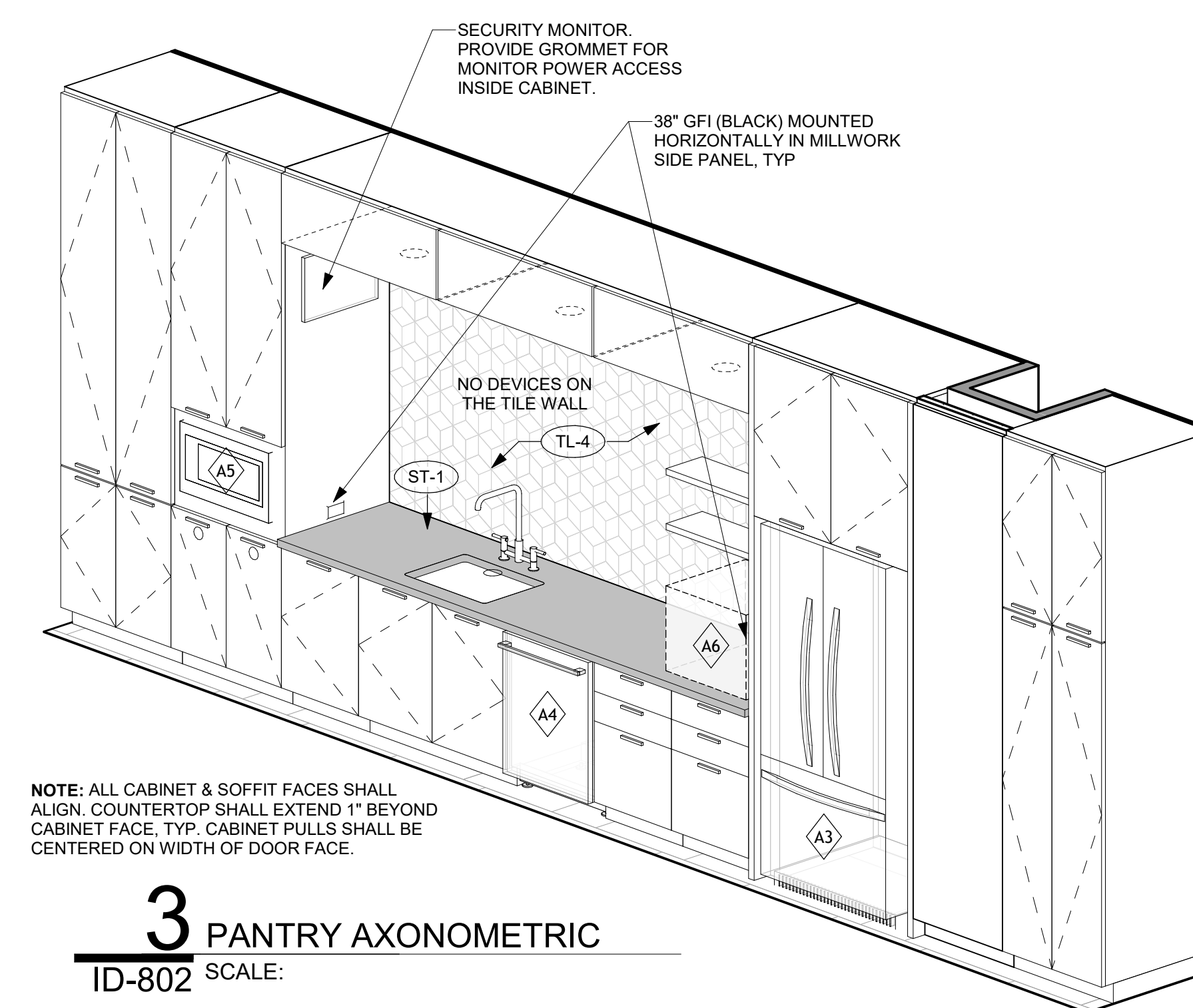
6 TALL STORAGE CABINET W/ BROOM CLOSET
ID-802 SCALE: 1 1/2" = 1'-0"



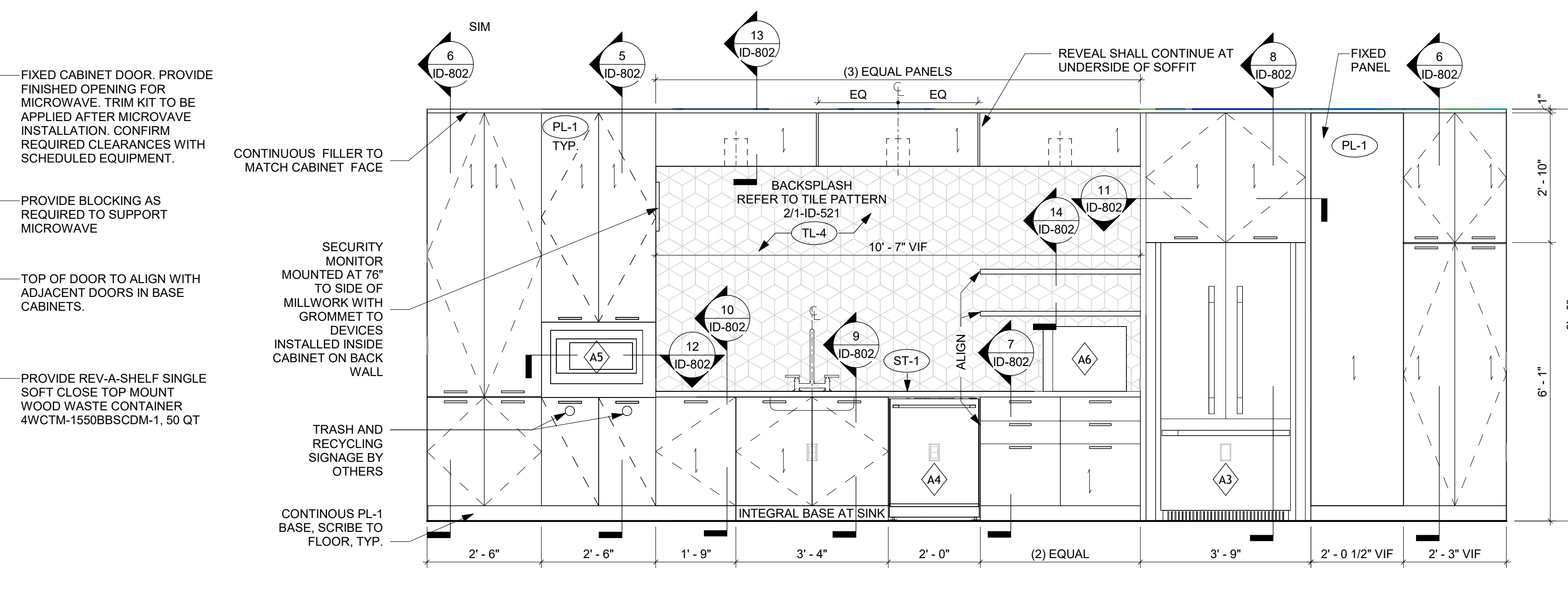
5 TALL STORAGE CABINET W/ MICROWAVE
ID-802 SCALE: 1 1/2" = 1'-0"



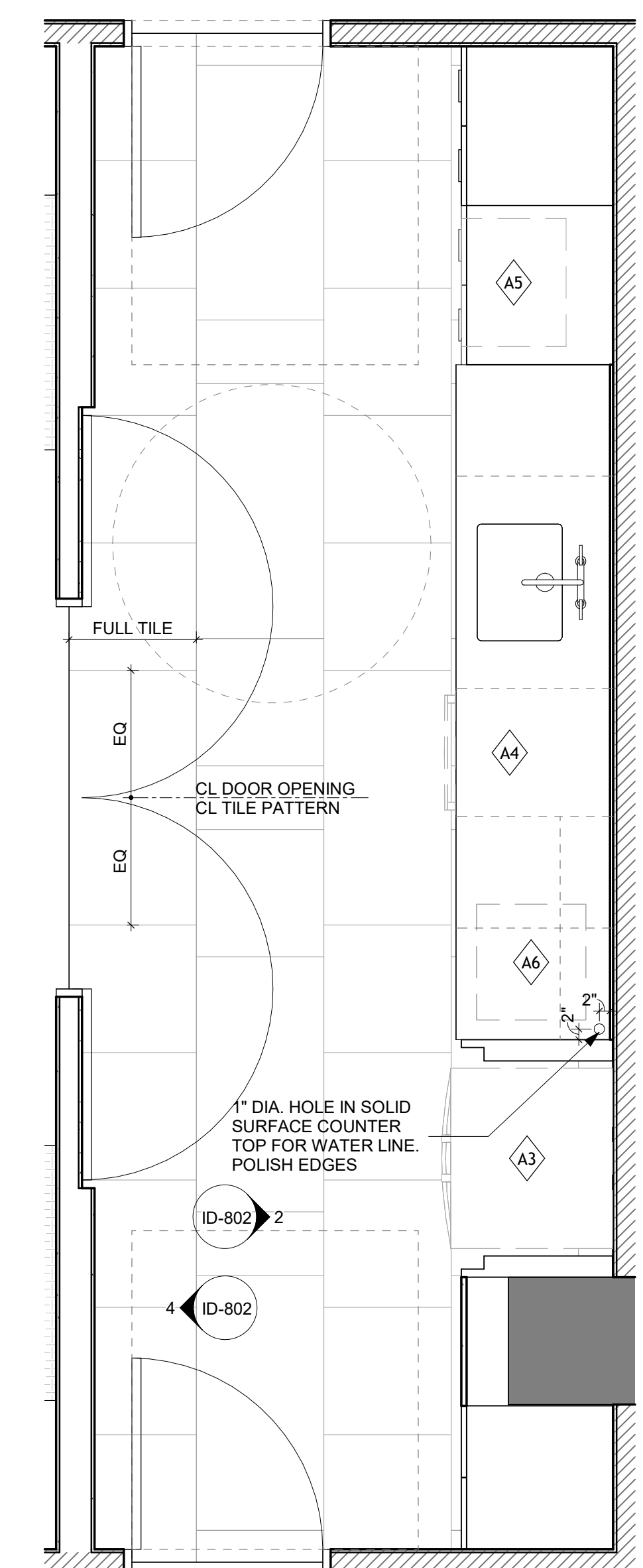
4 PIZZA BOARDS
ID-802 SCALE: 1/2" = 1'-0"



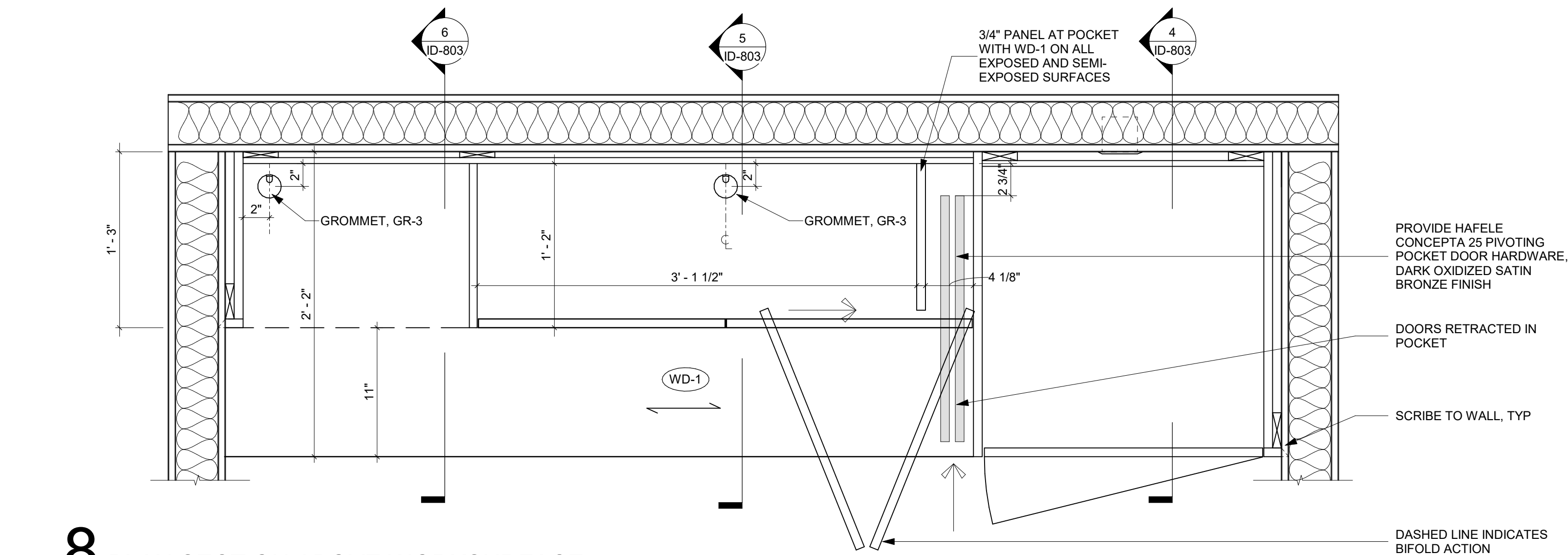
3 PANTRY AXONOMETRIC
ID-802 SCALE:



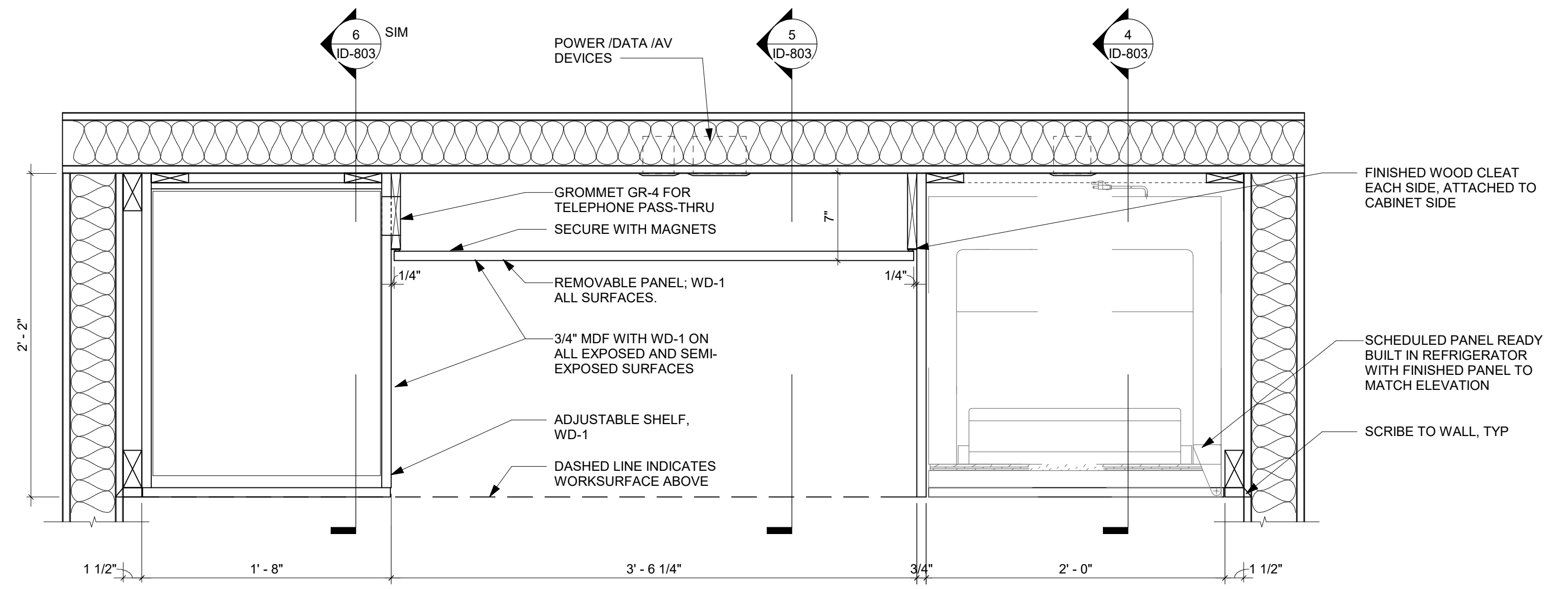
2 PANTRY ELEVATION
ID-802 SCALE: 1/2" = 1'-0"



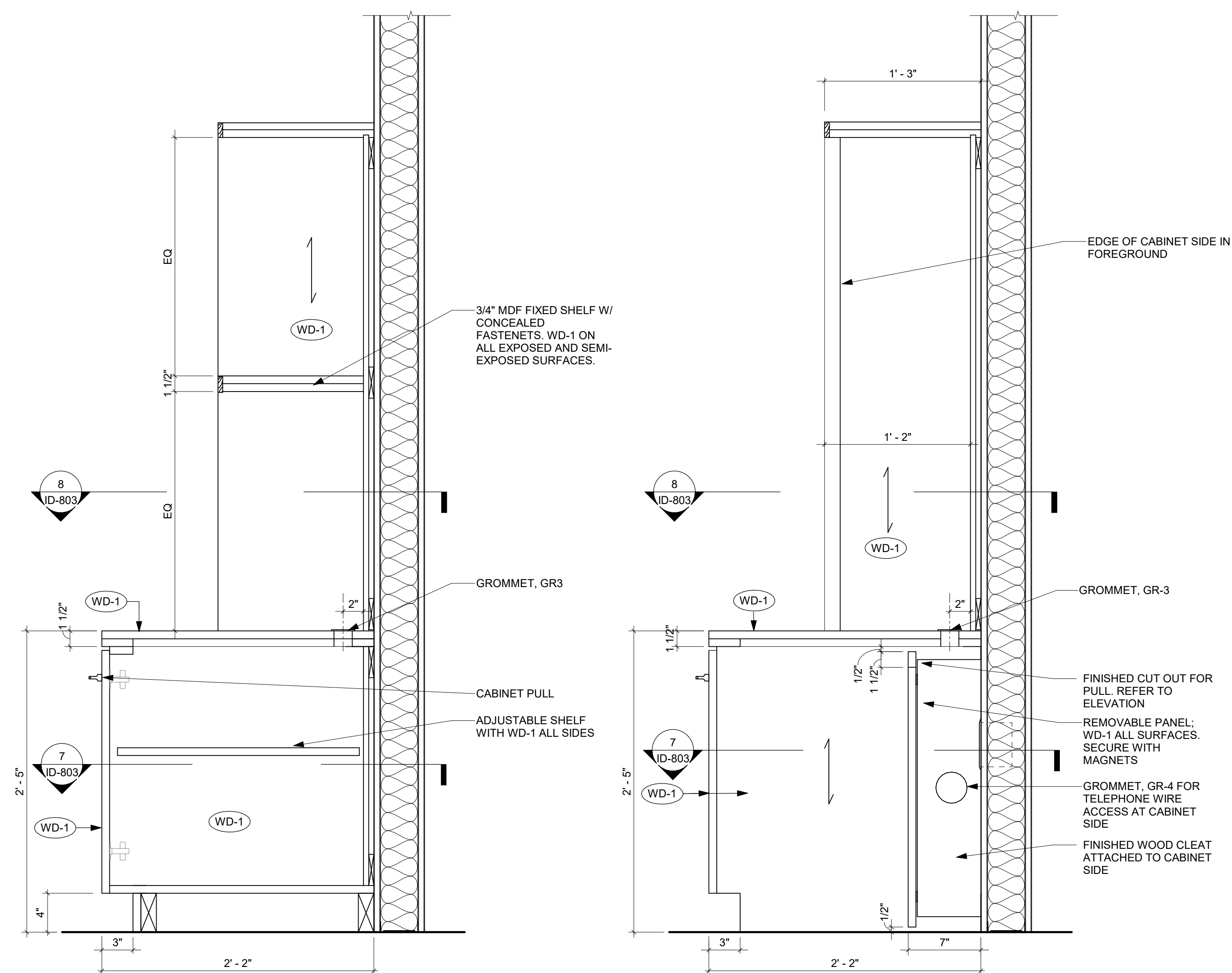
1 PANTRY ENLARGED PLAN
ID-802 SCALE: 1/2" = 1'-0"



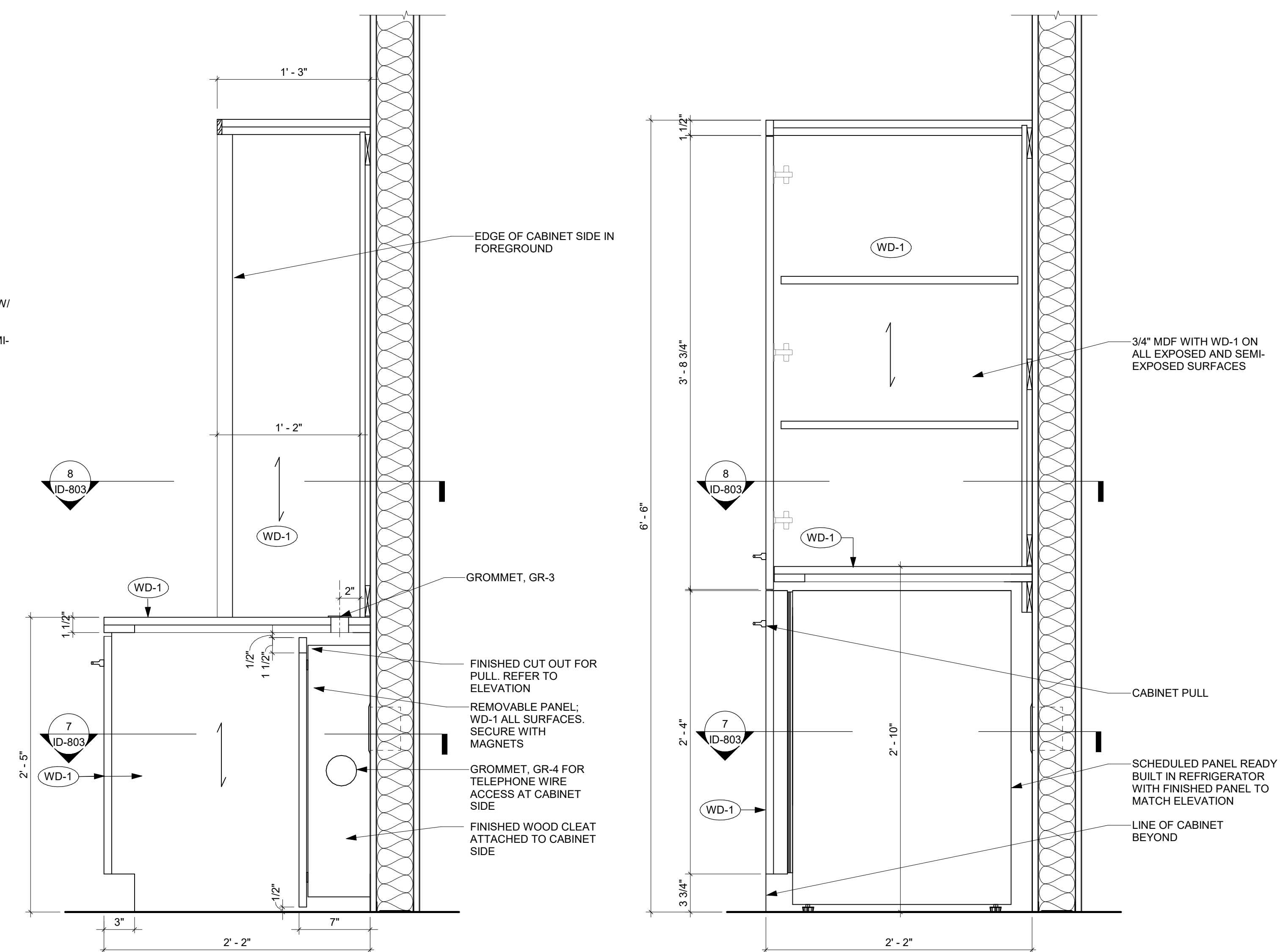
8 PLAN SECTION ABOVE WORKSURFACE
ID-803 SCALE: 1 1/2" = 1'-0"



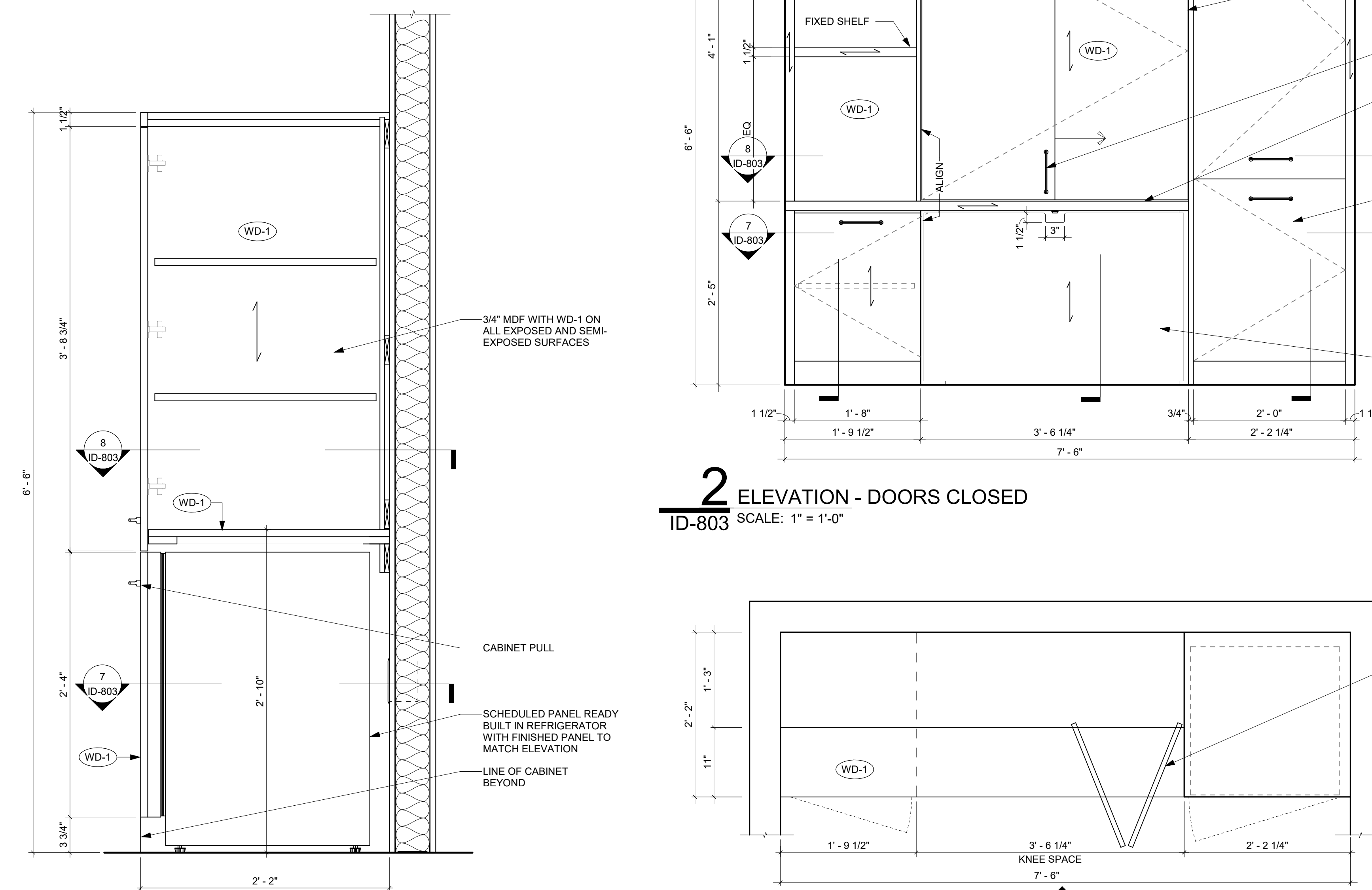
7 PLAN SECTION BELOW WORKSURFACE
ID-803 SCALE: 1 1/2" = 1'-0"



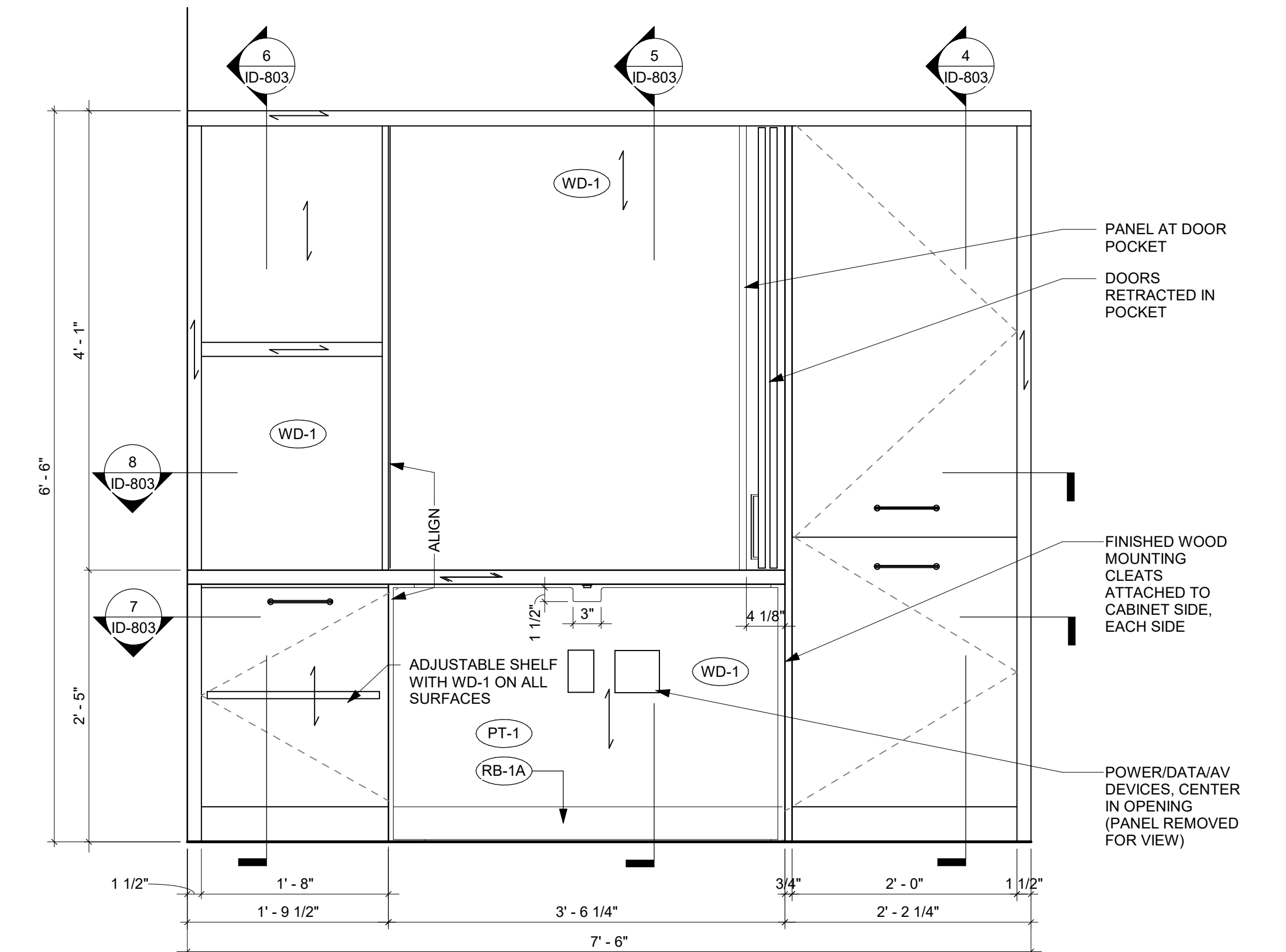
6 SECTION AT KNEE SPACE AND SLIDING DOORS
ID-803 SCALE: 1 1/2" = 1'-0"



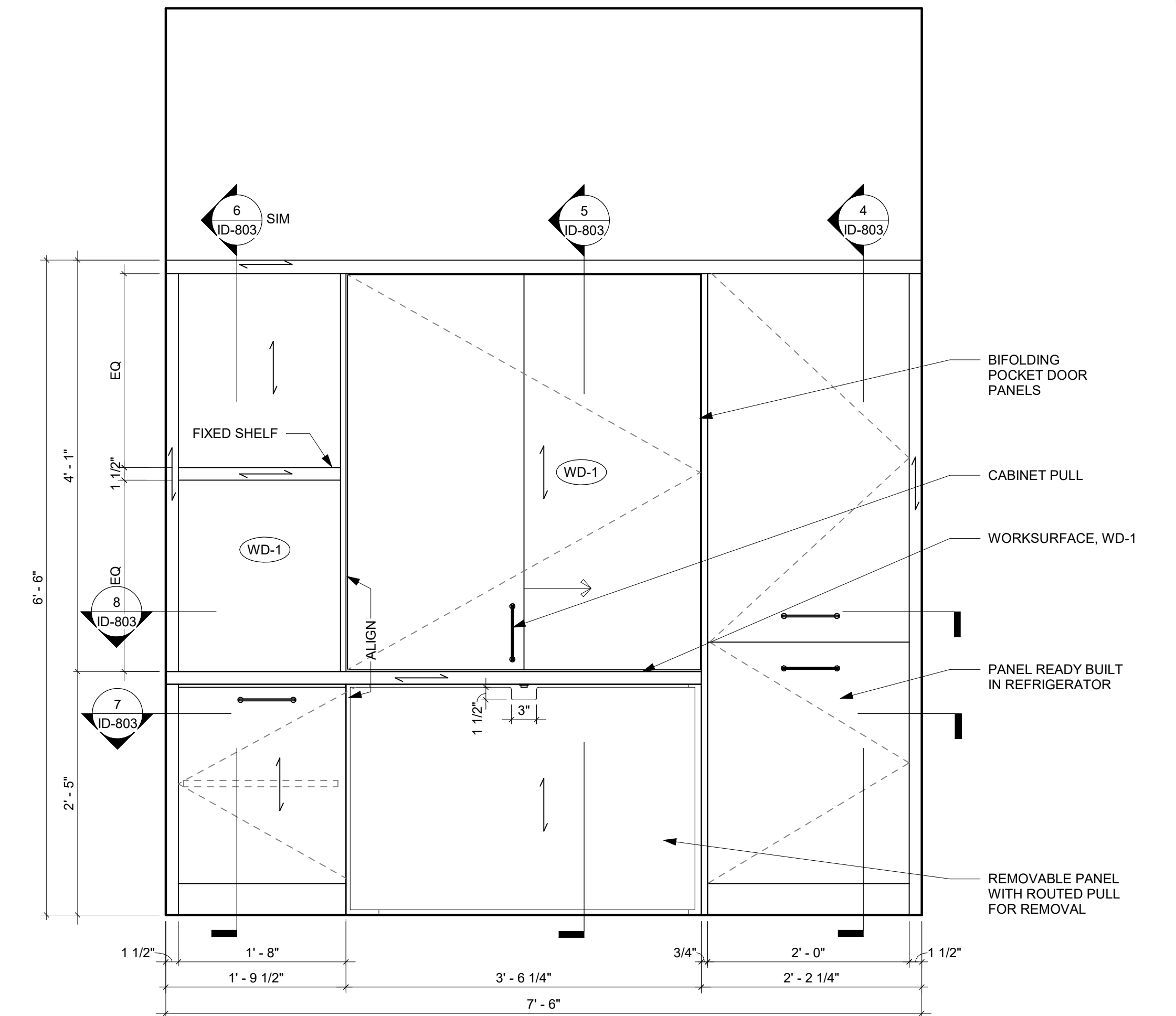
5 SECTION AT KNEE SPACE AND SLIDING DOORS
ID-803 SCALE: 1 1/2" = 1'-0"



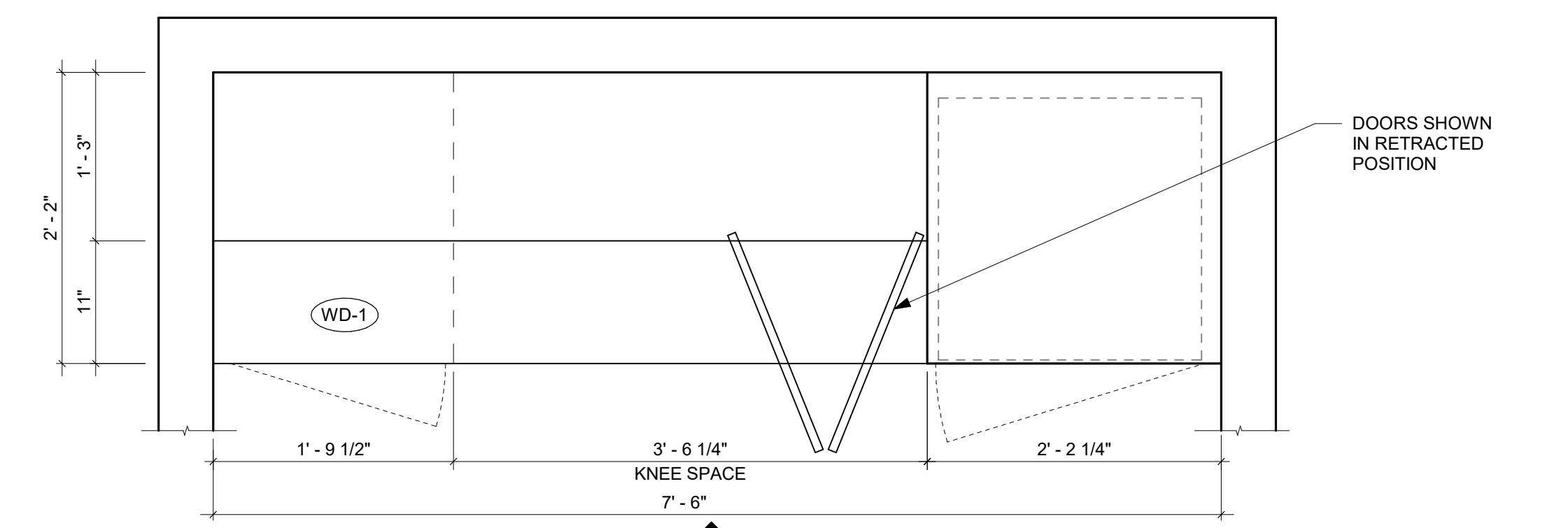
4 SECTION AT REF. CABINET AND FIXED SHELF
ID-803 SCALE: 1 1/2" = 1'-0"



3 ELEVATION - DOORS OPENED
ID-803 SCALE: 1" = 1'-0"



2 ELEVATION - DOORS CLOSED
ID-803 SCALE: 1" = 1'-0"



1 PLAN VIEW
ID-803 SCALE: 1" = 1'-0"

General Notes:



Project Title:
Fidelity INVESTMENTS
Fidelity Real Estate Company
245 Summer Street
Boston, MA 20110

7171 E. Paradise Lane
Suite R-120
Scottsdale, AZ 85254

Number	Description	Date

Key Plan: Project North True North

Project No.: K2812554 R06
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Drawing Sheet Title:
INTERIOR MPR PLAN, ELEVATIONS AND DETAILS

Drawing Sheet Number:
ID-803

Owner's Branch No.:
134

12/19/2024 11:35:31 AM

FURNITURE SCHEDULE - FOR REFERENCE ONLY FURNITURE DEALER TO VERIFY COUNTS!

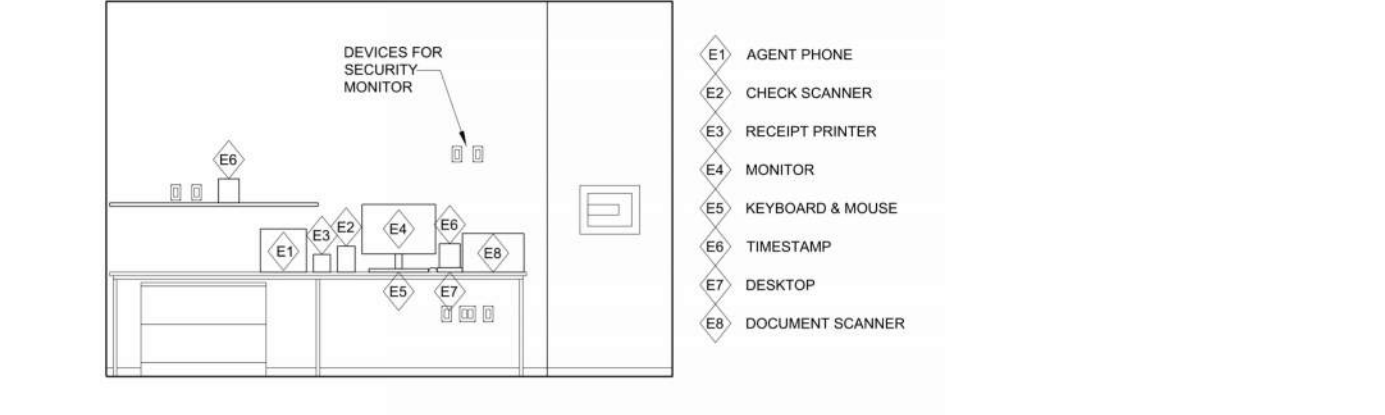
QTY	CODE	DESCRIPTION
9	A	SEAT PAD - GARDEN
8	B	SEAT PAD - BAMBOO
1	BB.01	BULLETIN BOARD
8	C	SEAT PAD - TERRAIN
81	CH.01	CHAIR - GUEST
45	CH.02	CHAIR - DESK
4	CH.03A	CHAIR - W/ ARMS, LOBBY
4	CH.03B1	CHAIR - ARMLESS, LOBBY
16	CH.03B2	CHAIR - ARMLESS, MEETING ROOM
2	CH.04C.71	BENCH - 71" WIDE
4	CH.07A:	STOOL - COUNTER HEIGHT, W/ BACKREST - LOBBY, OPEN AREA
1	CH.07G	STOOL - BAR HEIGHT W/ BACKREST - AT LOBBY ISLAND
4	CH.08	CHAIR - LOUNGE, LOBBY
1	CH.10	CHAIR - TASK, MPR
1	CH.11	CHAIR - LOUNGE, MPR
6	CH.12	CHAIR - TASK, COLLABORATION ROOM
1	CT.01B	COAT HOOK - NATURAL OAK
105	DK.01.133L	DESK - 133" - LEFT HAND
24	DK.01.133R	DESK - 133" - RIGHT HAND
1	DK.02.120	DESK - OPERATIONS - 120"
6	DK.03	DESK - FOCUS ROOM
3	DK.05.60	DESK - FR, 60" WIDE
2	F2	LAMP - LOBBY
8	F9	LAMP - TRANSACTION OFFICE
1	F10	LAMP - FLOOR, MPR
33	F11	DESK LAMP - OFFICE
45	LK.01	LOCKER INSERT
1	LK.01.21	LOCKERS - 21 UNITS, 85.5" WIDE
1	LK.01.24	LOCKERS - 24 UNITS, 97.5" WIDE
1	M.03	MPR - MIRROR
2	S.01-L	CRENDENZA - TR OFFICE - LEFT HAND
8	S.04	FILE - STORAGE, OFFICE, FR OFFICE
1	S.05	FILE - LATERAL, 2 DRAWER, 36" WIDE
1	ST.03	STOOL - 4 PACK
27	TB.01	TABLE - OFFICE, 42" DIA.
2	TB.02	TABLE - LOBBY
2	TB.03A.96	TABLE - PARSONS, W/ POWER 96" W x 24" D x 36" H
1	TB.04	TABLE - CONFERENCE, COLLABORATION ROOM
2	TB.05.98	TABLE - CONFERENCE, MEETING ROOM - 98" W x 39" D x 29" H
2	TB.06	TABLE - OCCASIONAL, LOBBY
3	TB.09	TABLE - LAPTOP
6	TB.12	TABLE - FOCUS ROOM
3	TR.01	TRASH BIN
7	WS.01	WORKSTATION

EQUIPMENT LEGEND - BY FURNITURE VENDOR

TAG	DESCRIPTION / REMARKS	MANUFACTURER	MODEL NUMBER
A6	COFFEE MAKER - PANTRY	MARS	FLAVIA BARISTA
A7	COFFEE MAKER - LOBBY ISLAND	MARS DRINKS	FLAVIA CREATION 500
A11	COLOR MULTI FUNCTION PRINTER / COPIER	LEXMARK	C7820TE
A12	SHREDDER	DESTROYIT	4095CC

OPERATIONS EQUIPMENT DIAGRAM

1. THIS LAYOUT IS SHOWN FOR DIAGRAMMATIC PURPOSES. ACTUAL FURNITURE LAYOUT MAY VARY. REFER TO FLOOR PLAN.



PLANTS GENERAL NOTES

- PLANTS INDICATED IN THIS PLAN ARE FOR BASIS OF DESIGN, SUBJECT TO A SUITABILITY REVIEW FOR SCALE, QUANTITY AND LOCATION BY THE PLANT TEAM.
- A SITE VISIT IS RECOMMENDED TO EVALUATE PLANTS SIZES, LIGHTING AND HUMIDITY CONDITIONS.
- ALL PLANTS SHALL BE SPREAD THROUGHOUT THE BRANCH IN A RANDOM, INFORMAL, AND DOMESTIC WAY - TO CREATE A LOOSE AND RELAXED FEEL.
- ALL PLANTERS SHALL BE FITTED WITH A SELF WATERING SYSTEM.
- ALL PLANTERS SHALL RECEIVE ONE PLANT PER POT.

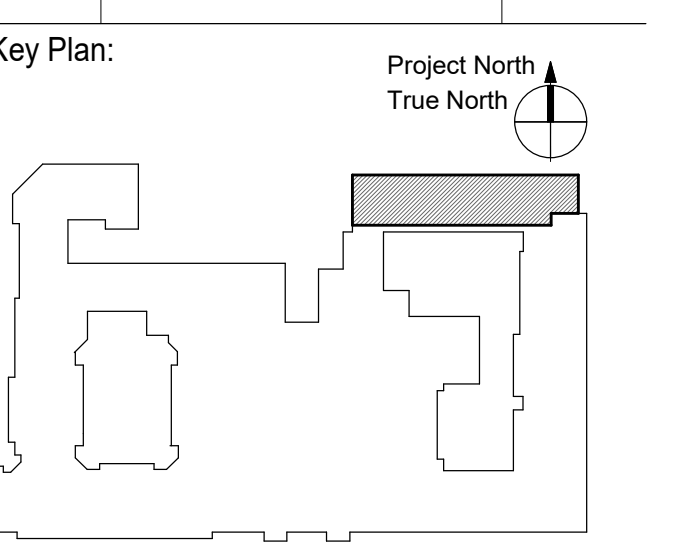
PLANT SYMBOLS LEGEND

SYMBOL	DESCRIPTION:	MIN. TO MAX. W & H
●	SMALL TABLE PLANT; POT SIZE: 6"	9" - 12" W x 9" - 12" H
●	MEDIUM FLOOR PLANT; POT SIZE: 10"	16" - 24" W x 26" - 36" H
●	LARGE FLOOR PLANT; POT SIZE: 10" / 12" / 14"	20" - 30" W x 48" - 72" H
—	POSSIBLE ART LOCATION	—



7171 E. Paradise Lane
Suite R-120
Scottsdale, AZ 85254

Number	Description	Date
	Issued for Permit & Construction	23 DEC 24

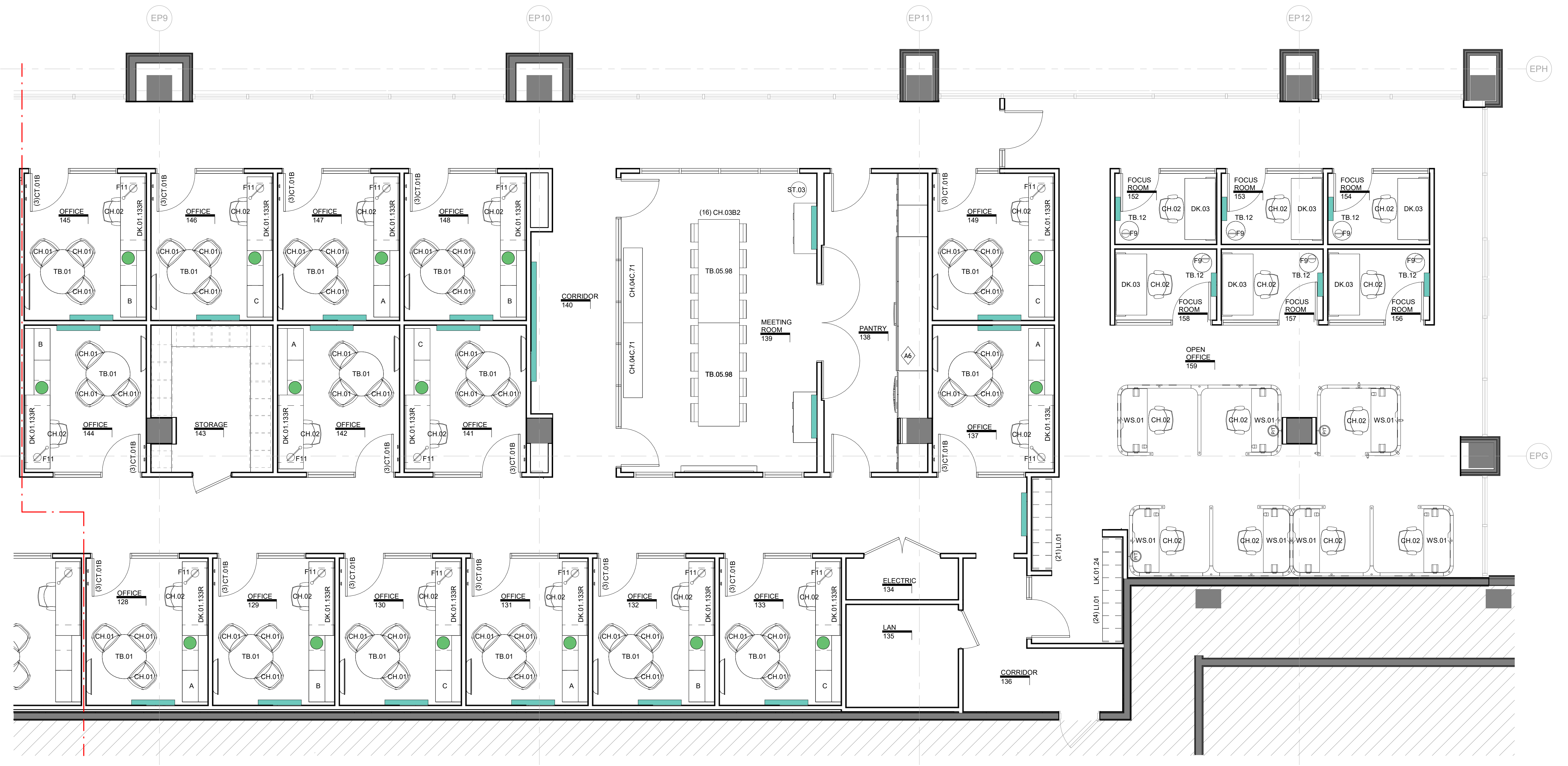


Project No.: K2812554 R06
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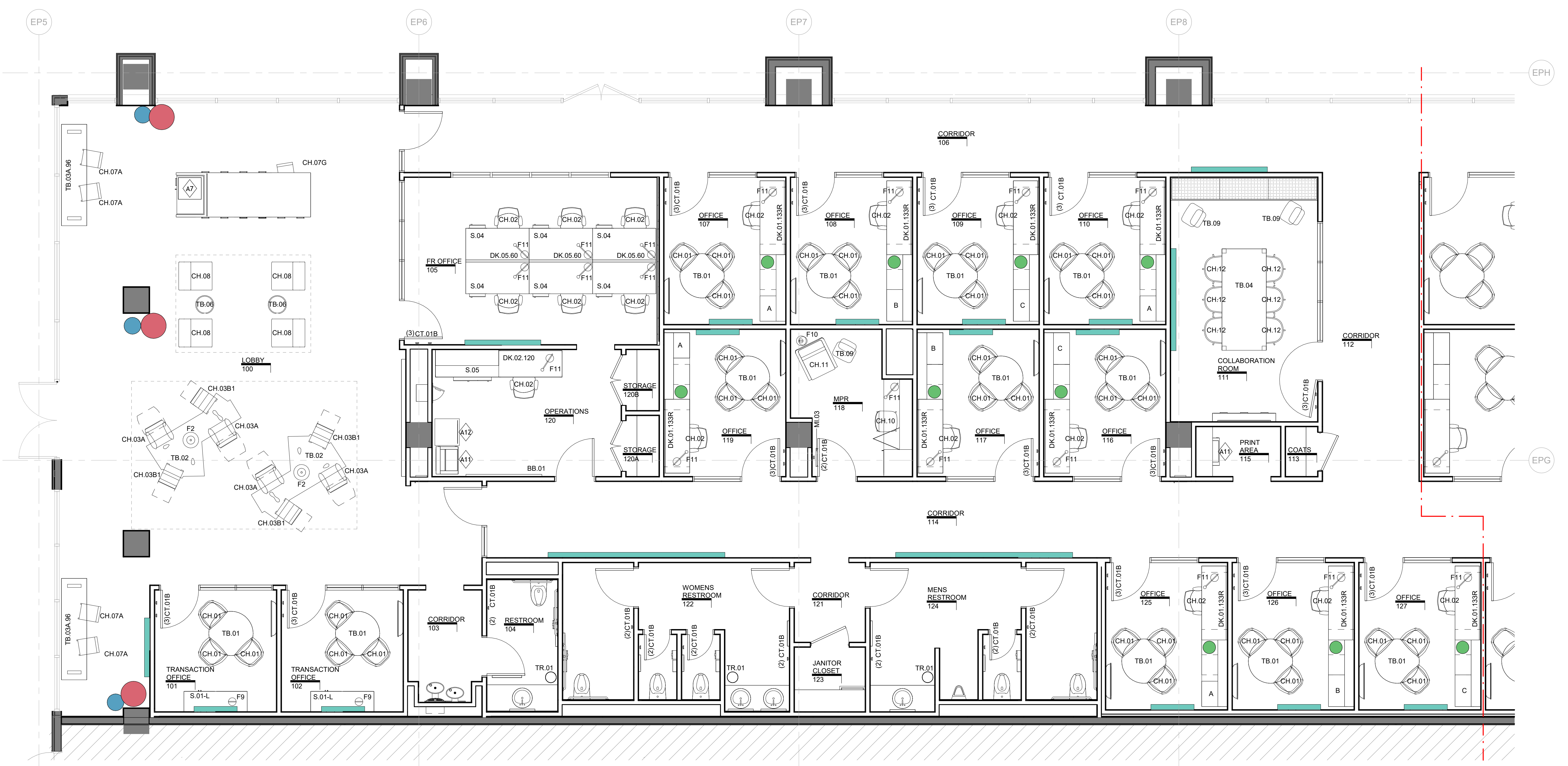
Drawing Sheet Title:
INTERIOR FURNITURE PLAN

Drawing Sheet Number:
ID-901

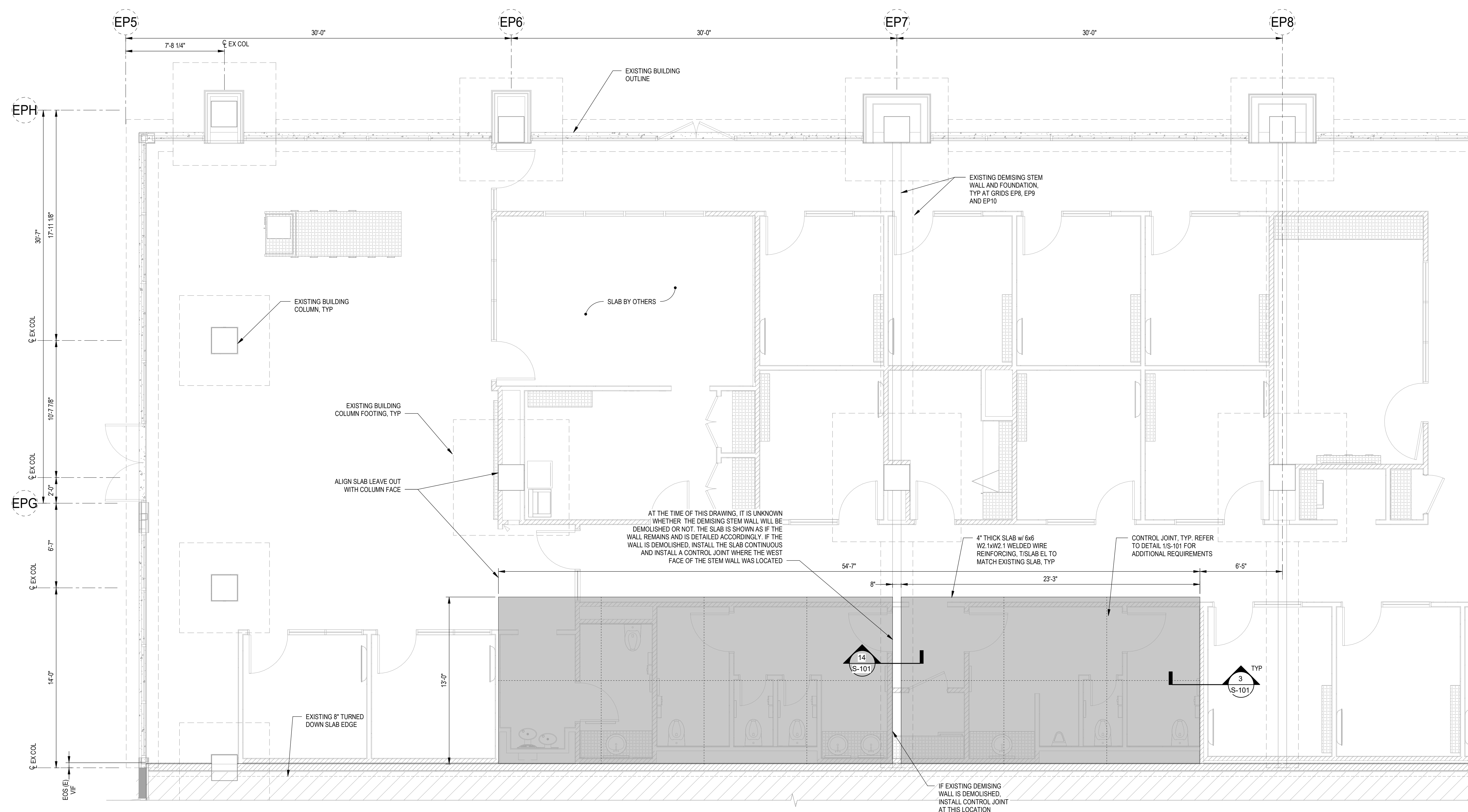
Owner's Branch No.:
134



2 FURNITURE, ART AND PLANTER PLAN - EAST
ID-901 SCALE: 1/4" = 1'-0"

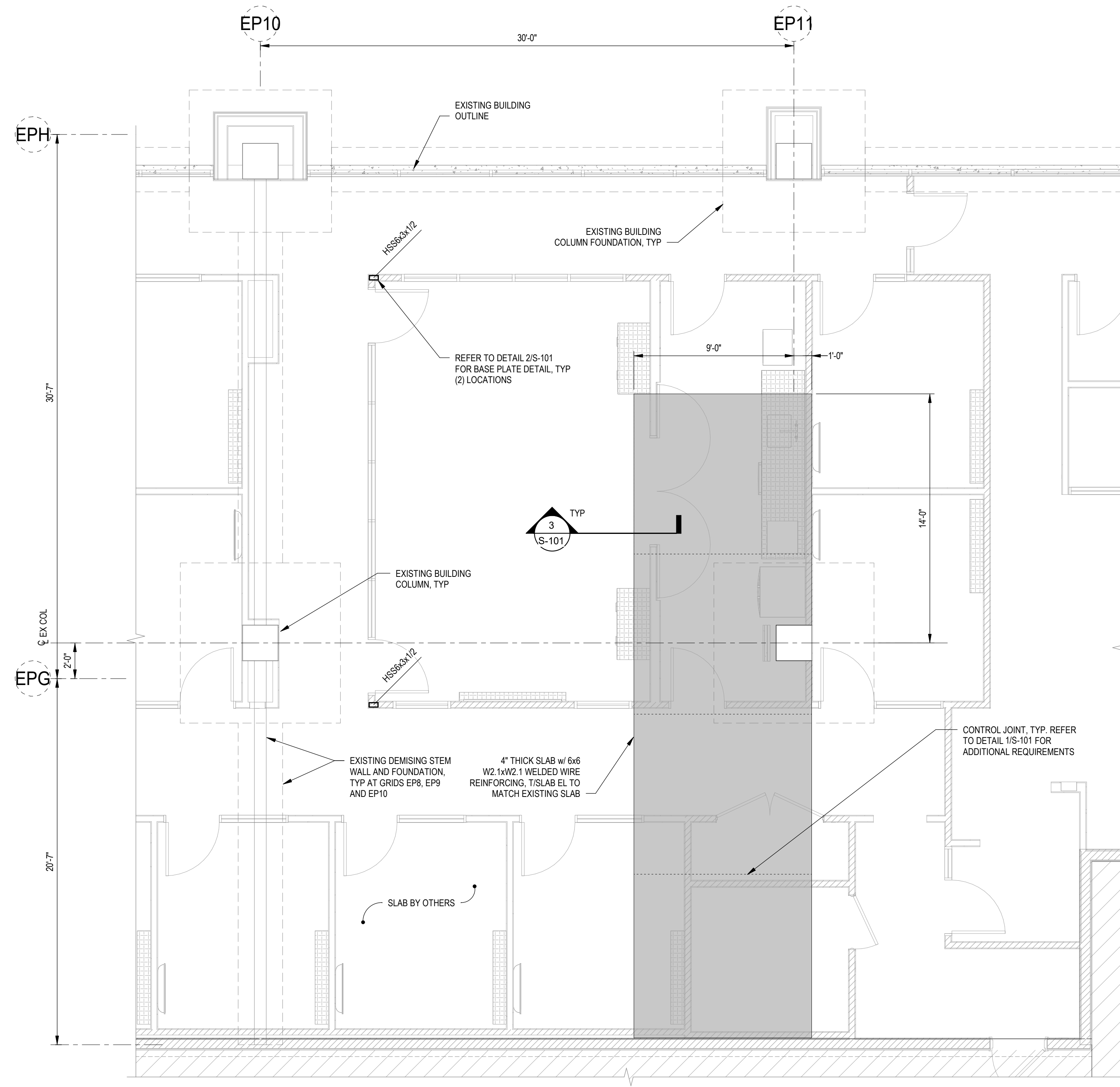


1 FURNITURE, ART AND PLANTER PLAN - WEST
ID-901 SCALE: 1/4" = 1'-0"



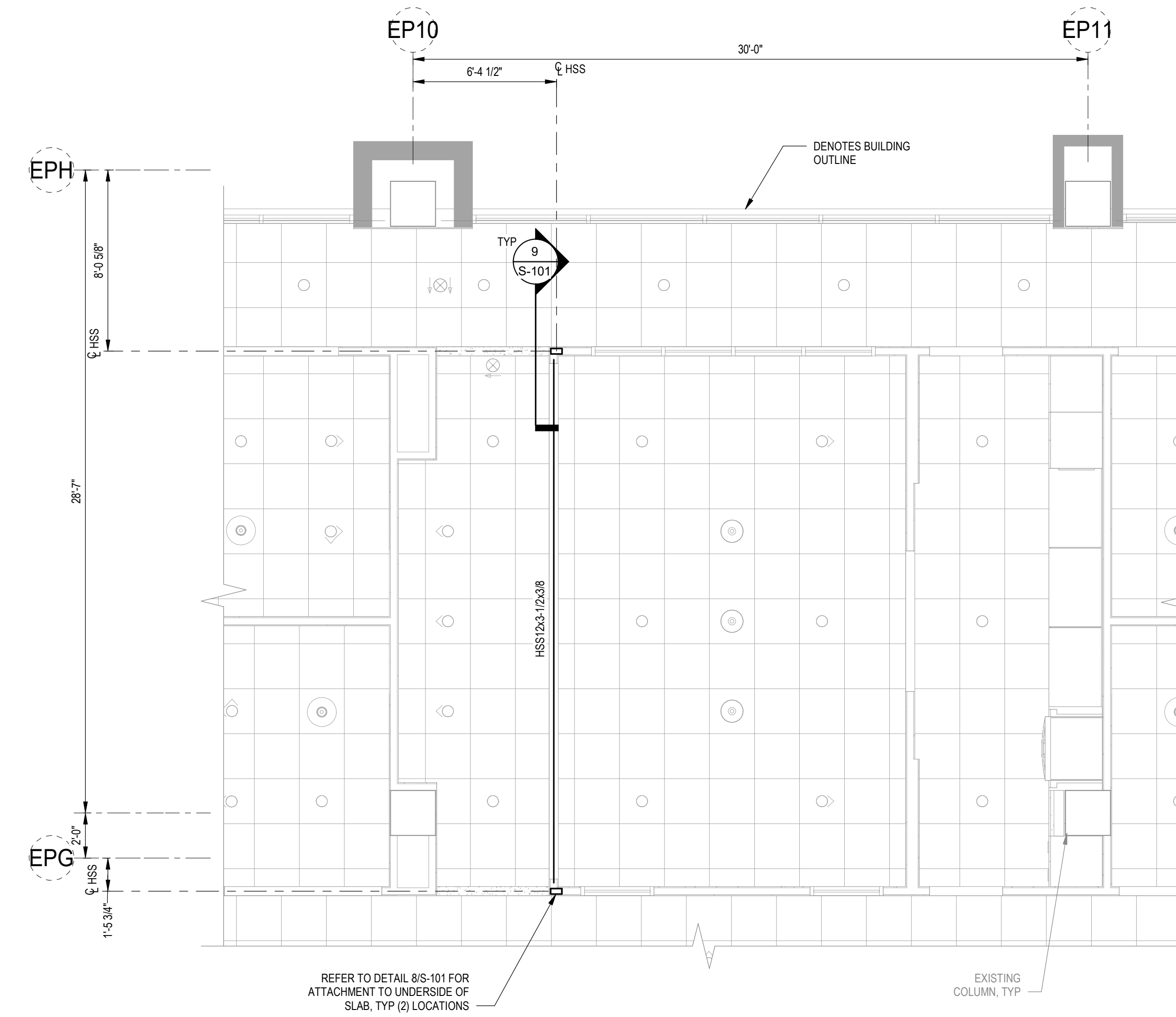
1 SLAB ON GROUND PLAN AREA 1
S-100 SCALE: 1/4" = 1'-0"

- NOTES:
 1. REFER TO GENERAL NOTES AND SPECIFICATIONS ON SHEETS S-001 FOR ADDITIONAL STRUCTURAL INFORMATION.
 2. TISLAB FFE TO MATCH THE EXISTING CONCRETE SLAB ELEVATION



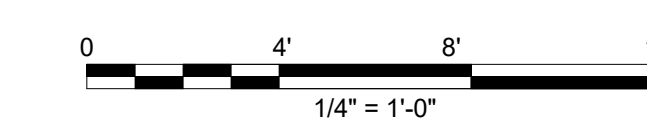
2 SLAB ON GROUND PLAN AREA 2
S-100 SCALE: 1/4" = 1'-0"

- NOTES:
 1. REFER TO GENERAL NOTES AND SPECIFICATIONS ON SHEET S-001 FOR ADDITIONAL STRUCTURAL INFORMATION.
 2. LOCATIONS OF COLUMNS AND FRAMING SHALL BE COORDINATED WITH LOCATION OF WALLS. REFER TO ARCHITECTURAL DRAWINGS.

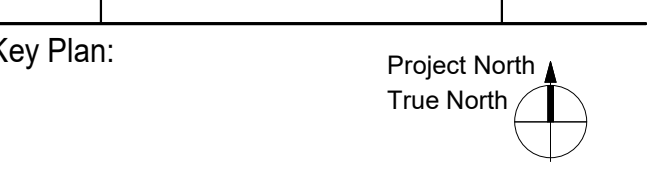


3 CONFERENCE ROOM HEADER FRAMING PLAN
S-100 SCALE: 1/4" = 1'-0"

- NOTES:
 1. REFER TO GENERAL NOTES AND SPECIFICATIONS ON SHEET S-001 FOR ADDITIONAL STRUCTURAL INFORMATION.
 2. LOCATIONS OF COLUMNS AND FRAMING SHALL BE COORDINATED WITH LOCATION OF WALLS. REFER TO ARCHITECTURAL DRAWINGS.
 3. BOTTOM OF HSS HEADER ELEVATION = 4'-2" ABOVE REFERENCE FFE.
 4. EXISTING FLOOR FRAMING ABOVE IS A 1 1/2\"/>

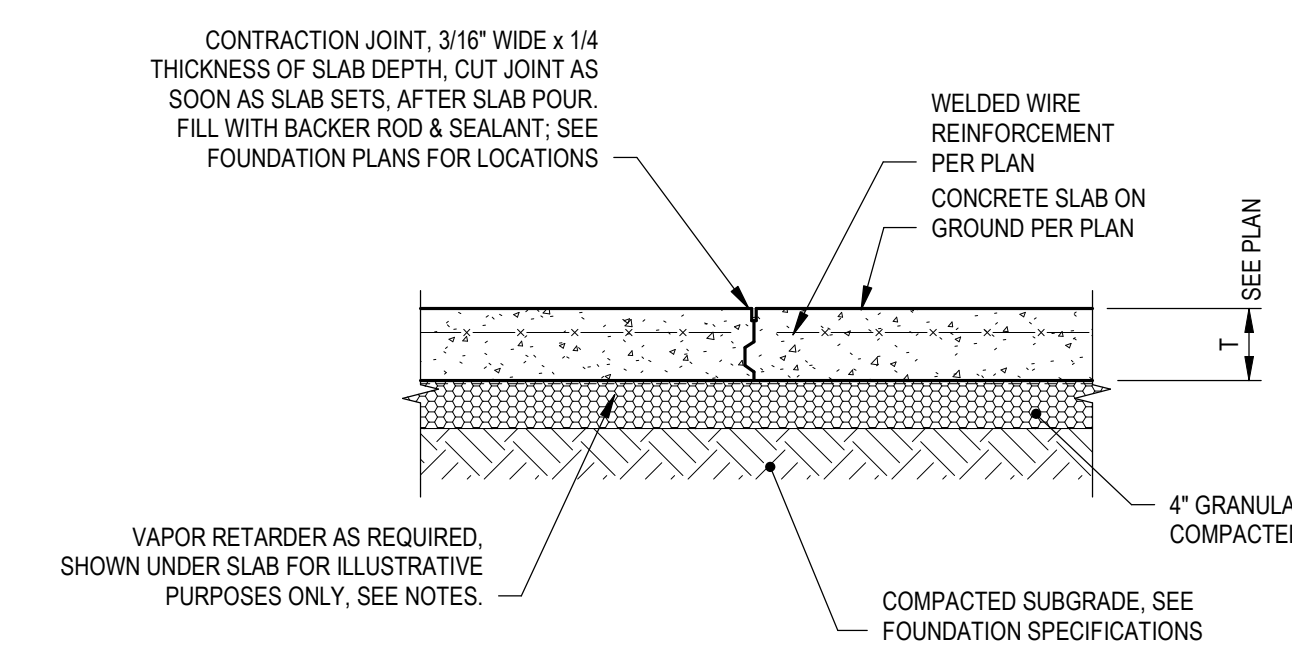


Number	Description	Date
0	ISSUE FOR CONSTRUCTION	12/20/2024



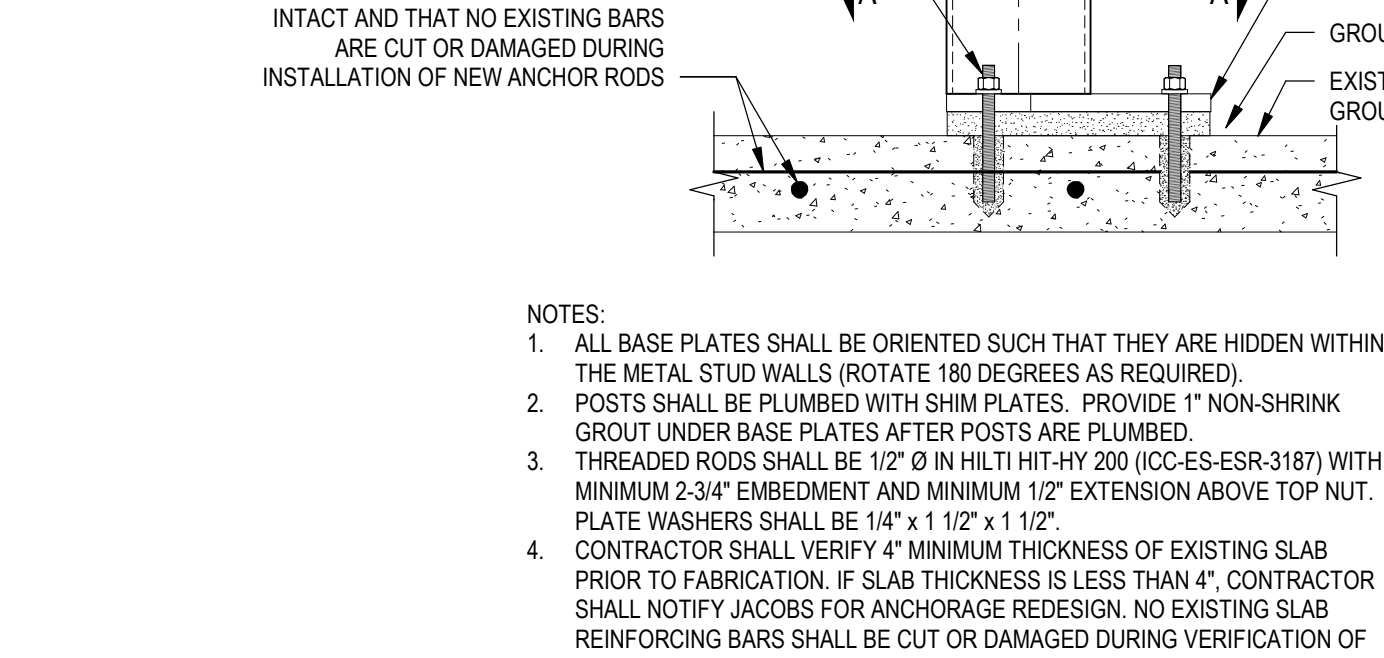


General Notes:

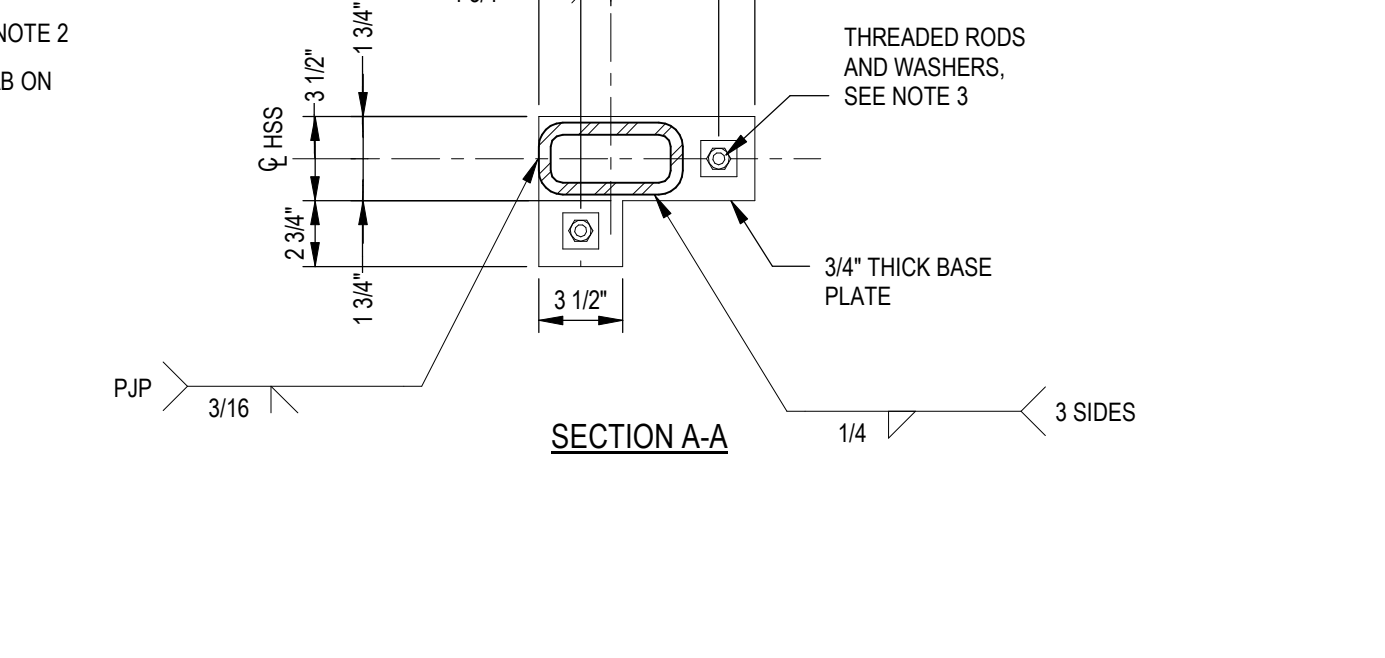


1 TYPICAL SLAB ON GROUND DETAIL
S-101 SCALE: 3/4" = 1'-0"

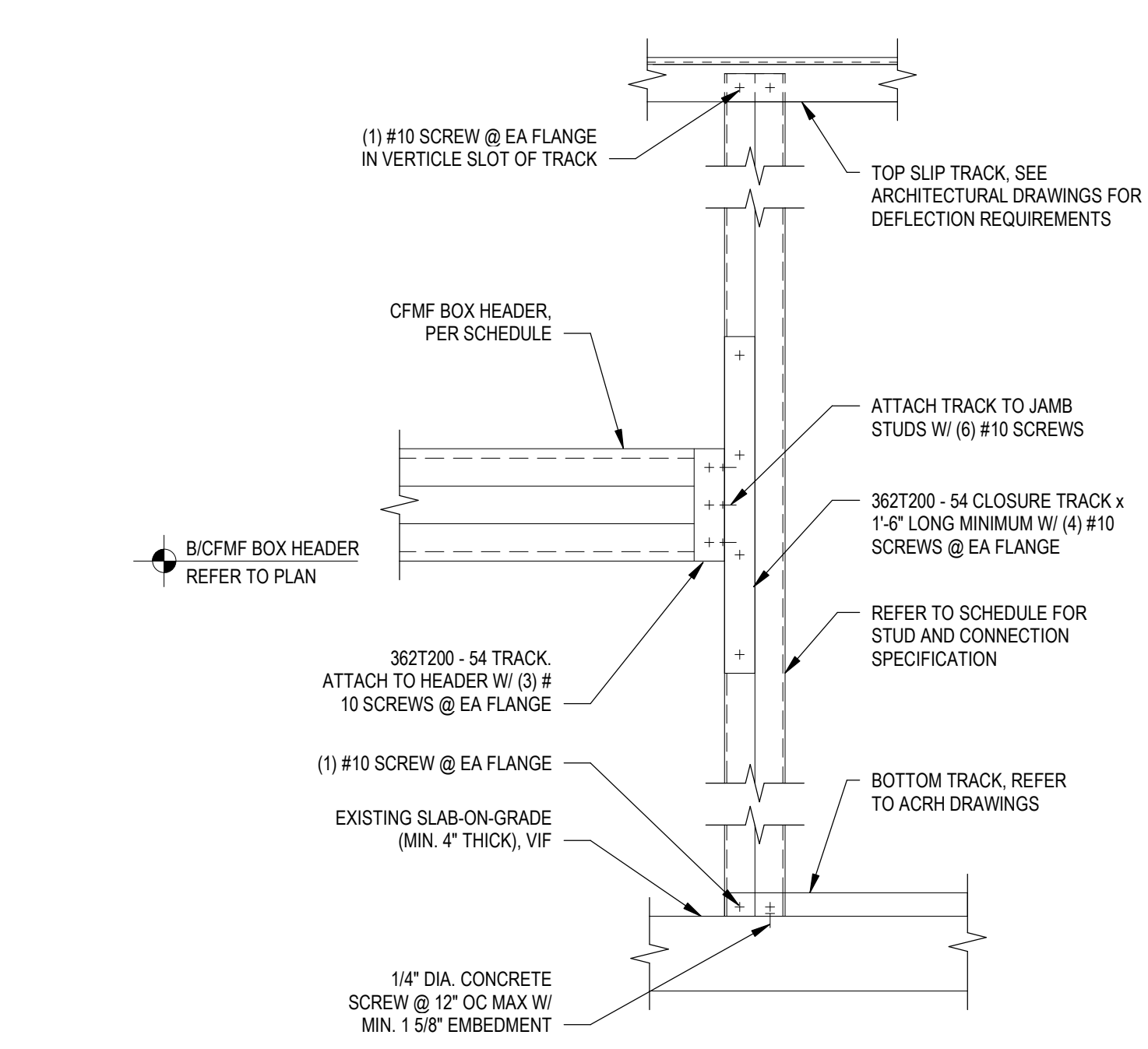
- SLAB-ON-GROUND NOTES:**
- THIS DETAIL DEPICTS JOINT TYPES AS WELL AS TYPICAL SLAB REQUIREMENTS. REFER TO THE CONCRETE SLAB AND FLOOR SPECIFICATIONS FOR FURTHER REQUIREMENTS.
 - UNLESS OTHERWISE NOTED PROVIDE A SLAB FINISH (FF) BETWEEN 25-35 AND A SLAB LEVELNESS (FL) BETWEEN 20-25.
 - PROVIDE (2) #3 x 2'-6" LONG, CENTERED IN SLAB AT ALL RE-ENTRANT CORNERS EVEN IF NOT SHOWN ON THE FOUNDATION PLAN.
 - PROVIDE ISOLATION JOINTS AT JUNCTIONS WITH WALLS (NOT REQUIRING LATERAL RESTRAINT FROM THE SLAB), COLUMNS, EQUIPMENT FOUNDATIONS, FOOTINGS OR OTHER POINTS OF RESTRAINT SUCH AS DRAINS, MANHOLES, Sumps AND STAIRWAYS EVEN IF NOT SHOWN ON THE FOUNDATION PLAN.
 - PROVIDE A VAPOR RETARDER UNDER ALL SLABS ON GRADE. SEE SPECIFICATIONS FOR RETARDER REQUIREMENTS. THE RETARDER SHALL BE PLACED UNDER GRANULAR FILL IF THE SLAB IS PLACED UNDER A WATERTIGHT ROOF OR FLOOR SYSTEM. IF THE SLAB IS PLACED BEFORE THE INSTALLATION OF SMOKE ROOF, PLACE THE RETARDER UNDER THE SLAB ITSELF.
 - IF CONCRETE IS INTERRUPTED LONG ENOUGH FOR THE PLACED CONCRETE TO HARDEN PROVIDE A CONSTRUCTION JOINT PER ACI 302-R. CONSTRUCTION JOINTS SHALL NOT BE PLACED CLOSER THAN 3'-0" FROM ANY JOINT TO WHICH THEY ARE PARALLEL.
 - PROVIDE CONTRACTION JOINTS IN 4" SLAB AT MAXIMUM SPACING, 12'-0" O.C.



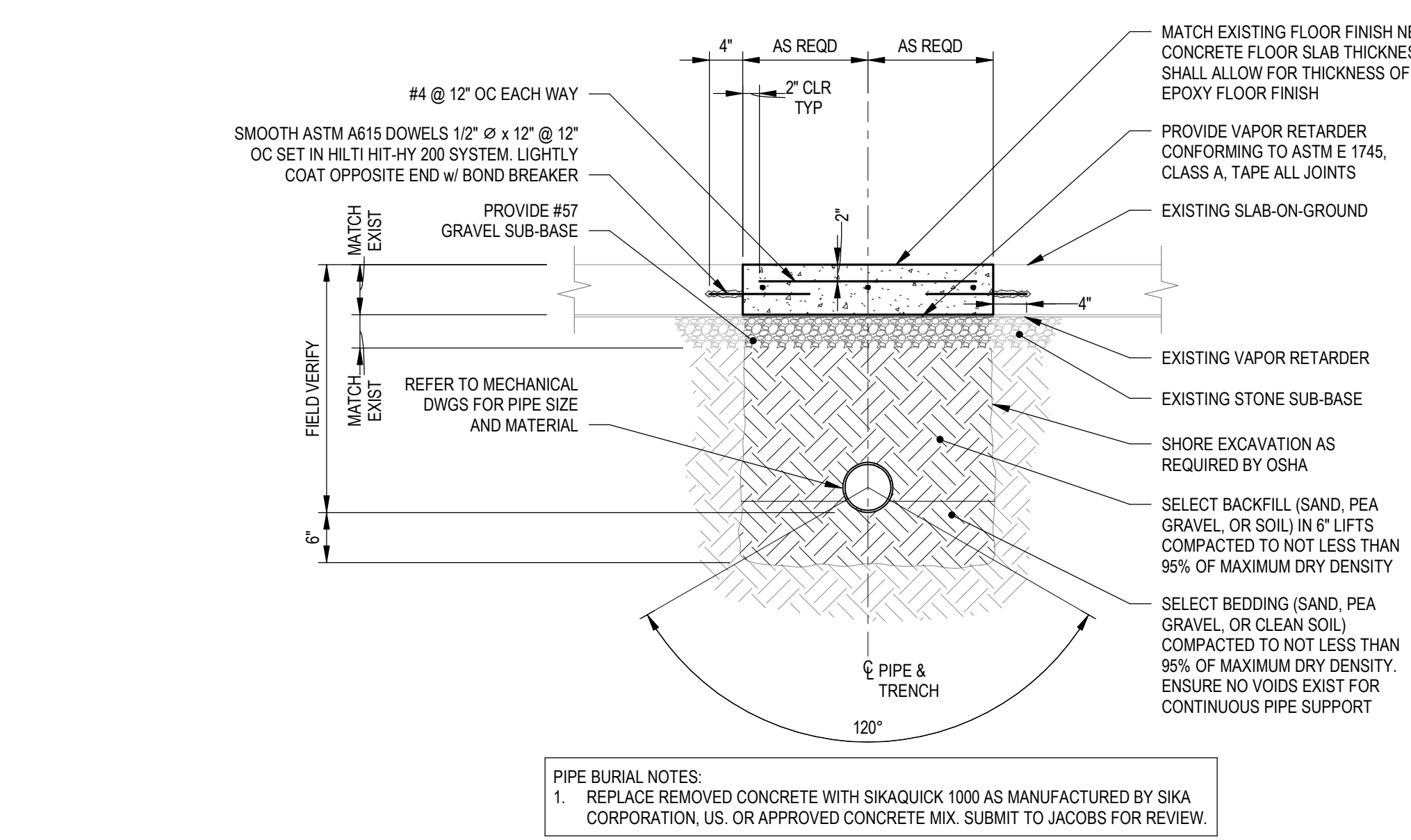
2 BASE PLATE AT HSS COLUMN
S-101 SCALE: 1 1/2" = 1'-0"



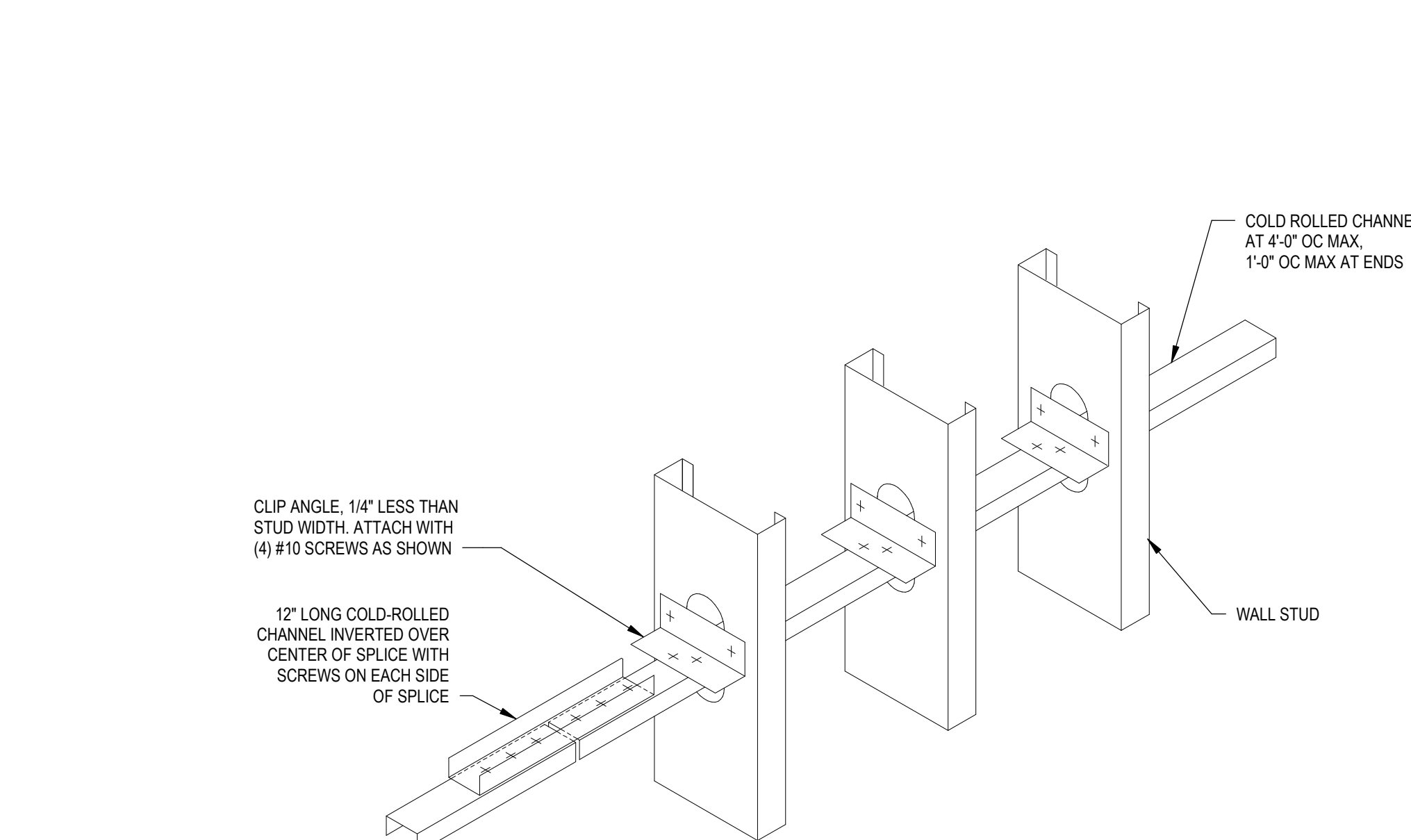
3 NEW TO EXISTING SLAB INTERFACE
S-101 SCALE: 3/4" = 1'-0"



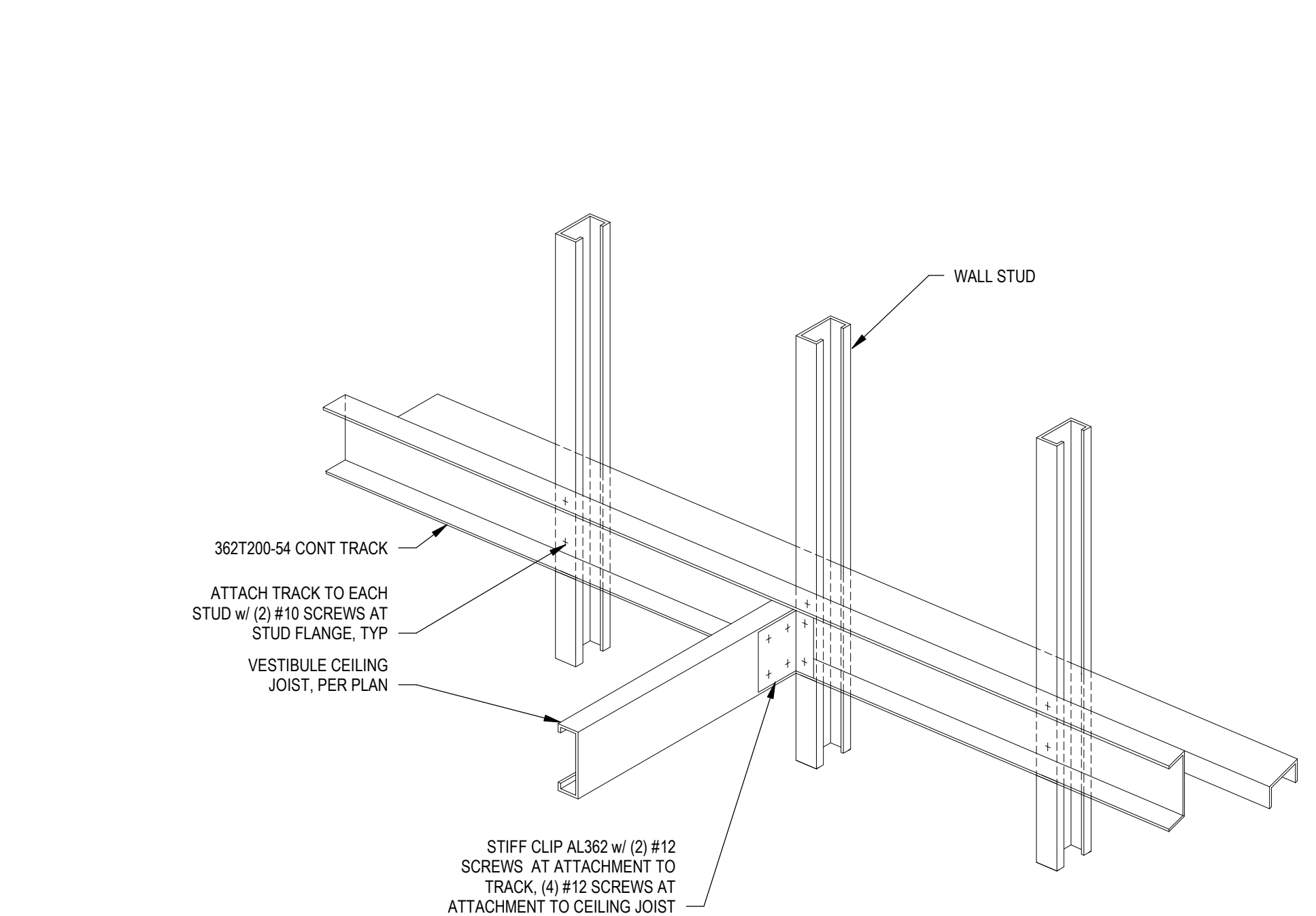
4 CFMF BOX HEADER TO JAMB CONNECTION
S-101 SCALE: 1 1/2" = 1'-0"



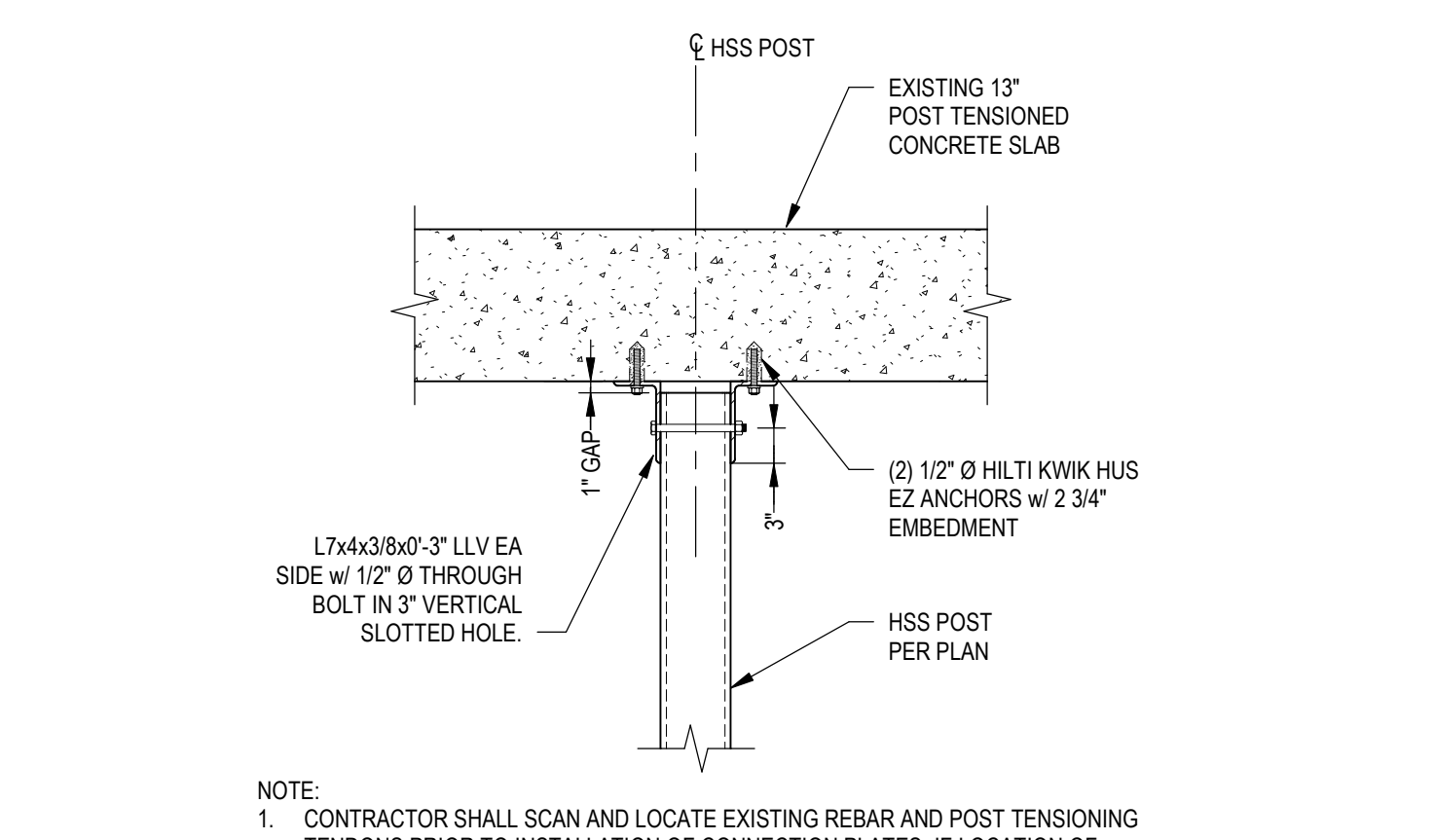
5 SLAB REPAIR AFTER ACCESS TO EXISTING PIPE
S-101 SCALE: 3/4" = 1'-0"



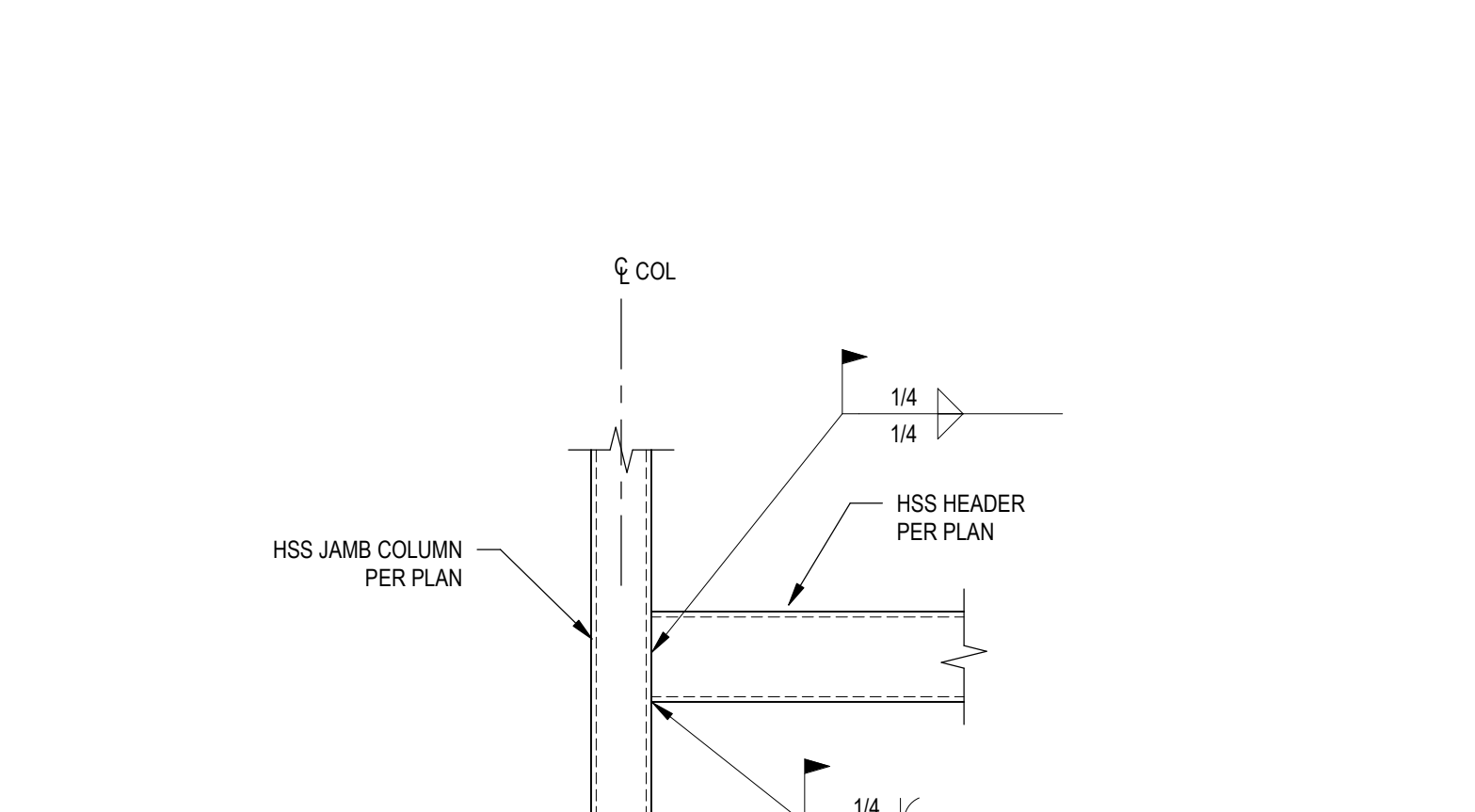
6 WALL BRIDGING TYPICAL DETAIL
S-101 SCALE: 3/4" = 1'-0"



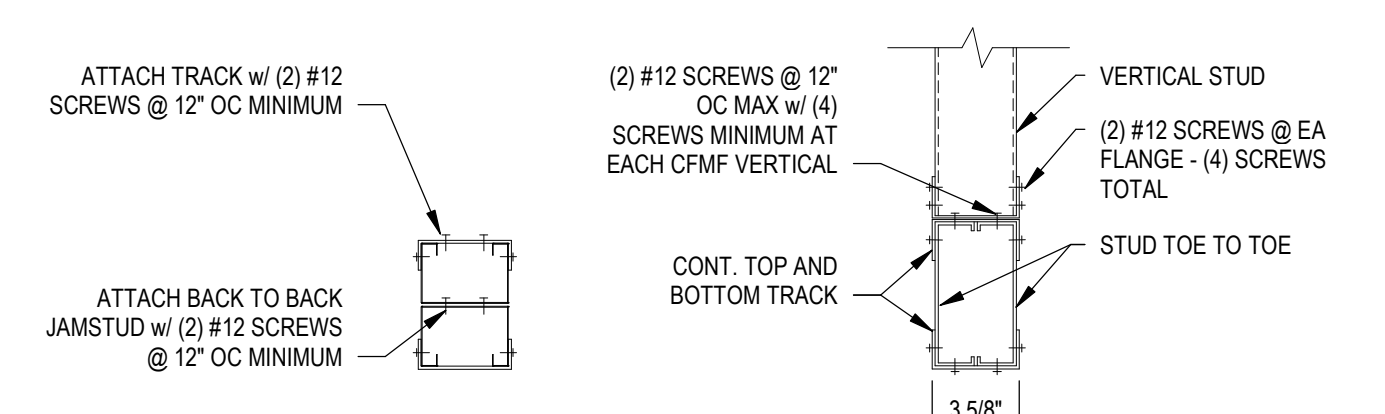
7 CEILING JOIST TO WALL STUD CONNECTION
S-101 SCALE: 1" = 1'-0"



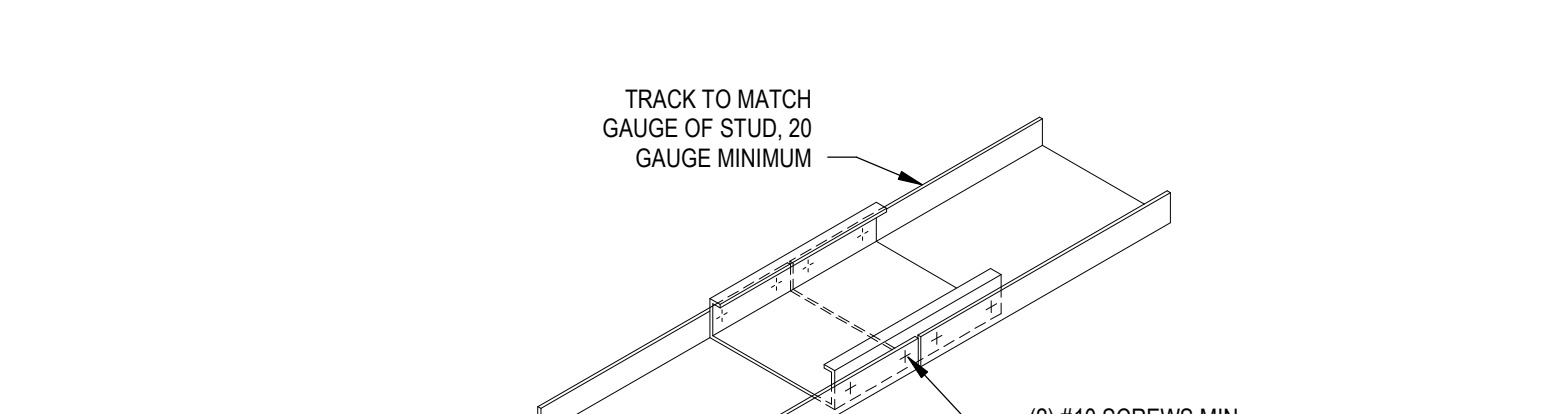
8 TOP OF HSS CONNECTION AT UNDERSIDE OF SLAB
S-101 SCALE: 3/4" = 1'-0"



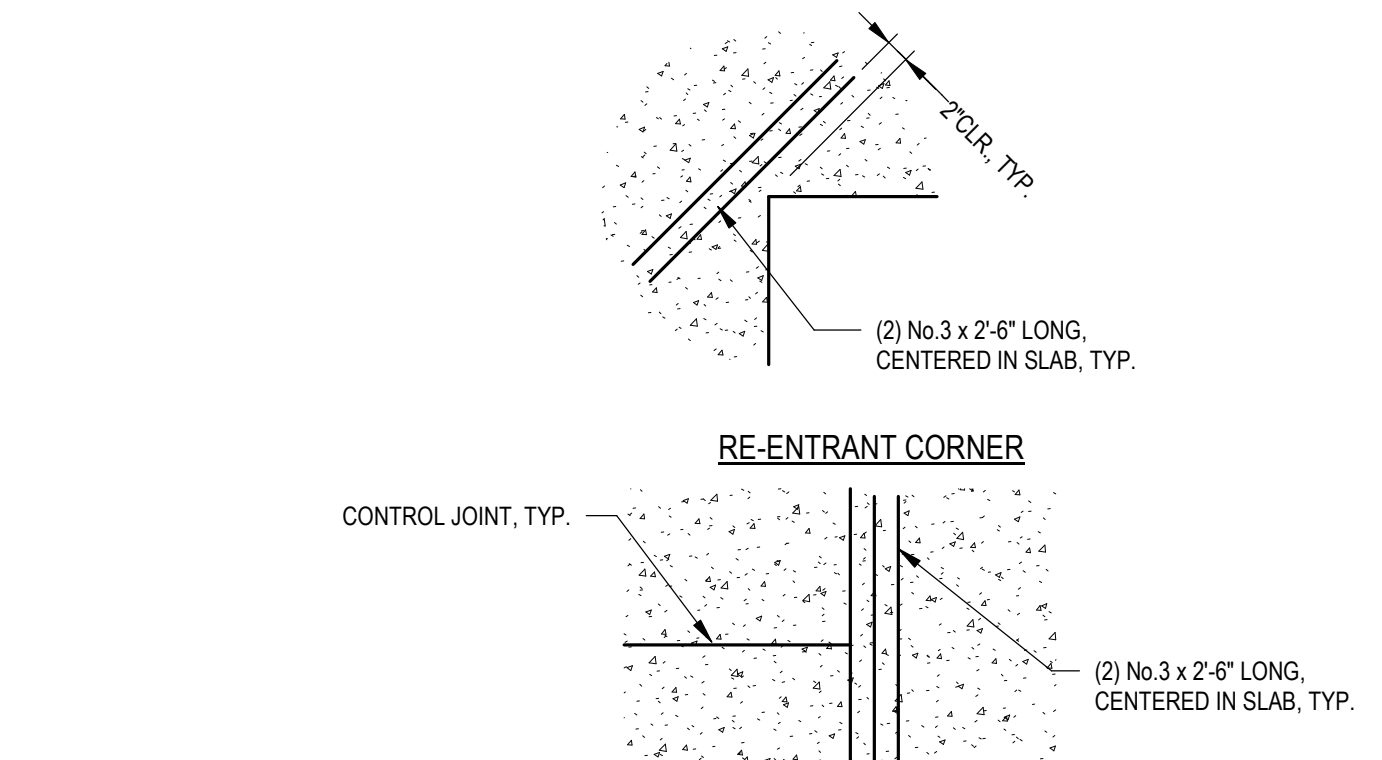
9 HSS HEADER TO HSS COLUMN CONNECTION
S-101 SCALE: 1" = 1'-0"



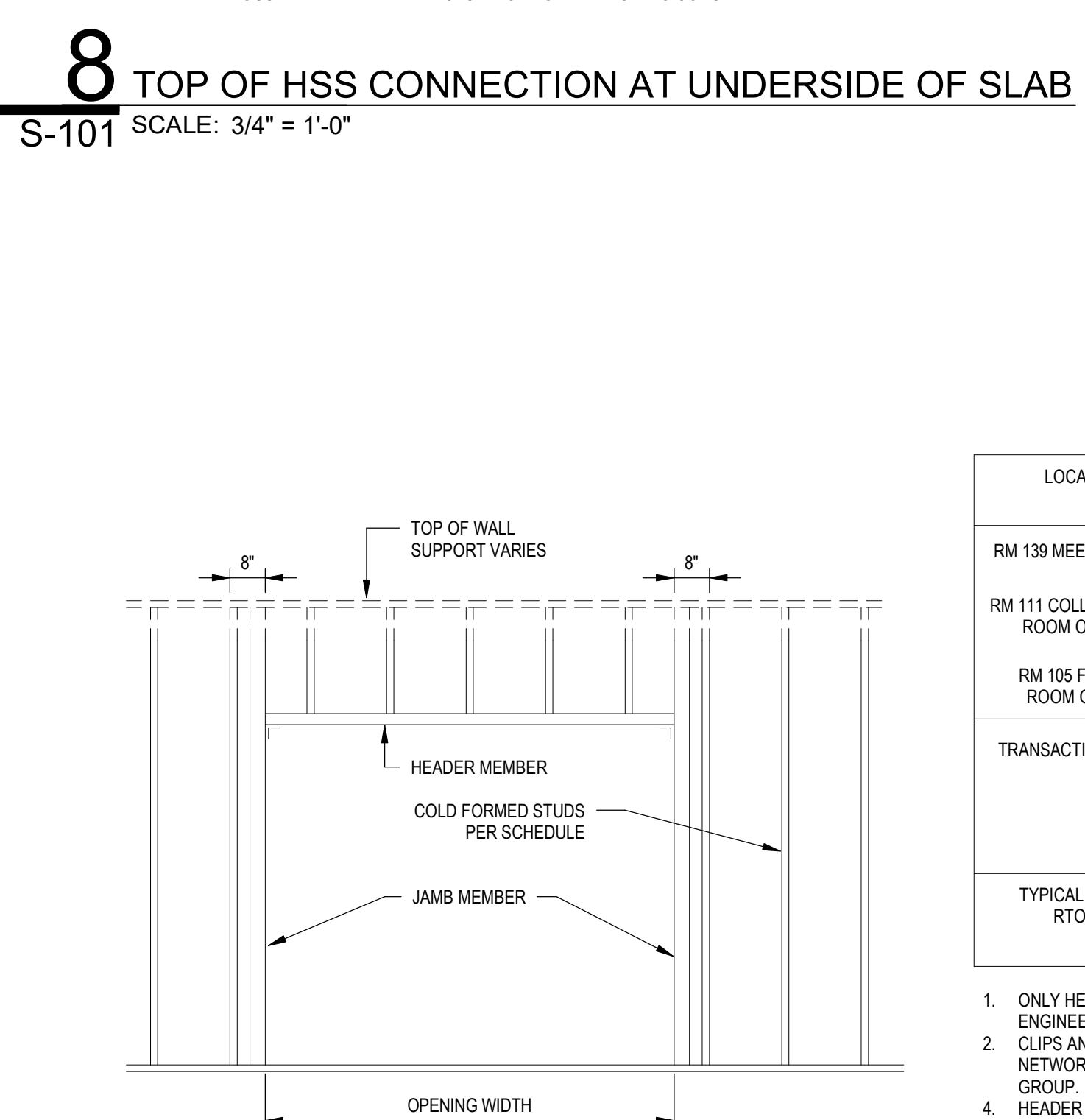
10 BOX HEADER AND JAMB DETAIL FOR OPENINGS
S-101 SCALE: 1 1/2" = 1'-0"



11 TOP AND BOTTOM TRACK SPLICE DETAIL
S-101 SCALE: 1 1/2" = 1'-0"



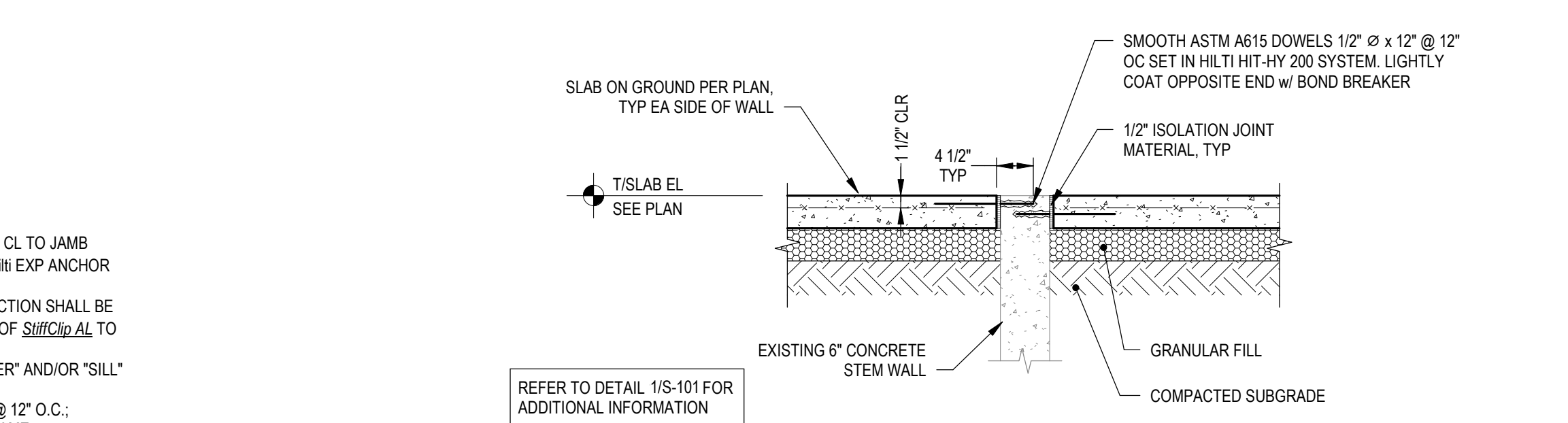
12 RE-ENTRANT CORNER REINFORCING
S-101 SCALE: 3/4" = 1'-0"



13 COLD FORMED HEADER AND JAMB SCHEDULE
S-101 SCALE: 3/8" = 1'-0"

LOCATION	OPENING WIDTH (MAX)	MEMBERS			CONNECTIONS		
		JAMB	HEADER	TOP OF JAMB	BASE OF JAMB	HEADER	
RM 139 MEETING ROOM	12'-7 1/2"	(3) 362JAM250-68 (50 KSI) (3) 362T150-68 (50 KSI)	(2) H. 362T150-97 (50 KSI) (2) VL 1000163-118 (50 KSI)	VertClip SL362	SIRClip AL362	(2) SIRClip AL362	
RM 111 COLLABORATION ROOM OPENING							
RM 105 FR OFFICE ROOM OPENING							
TRANSACTION OFFICE	9'-0"	(2) 362JAM250-68 (50 KSI) (2) 362T150-68 (50 KSI)	(2) H. 362T150-68 (50 KSI) (2) VL 4003163-68 (50 KSI)	VertClip SL362	SIRClip AL362	SIRClip AL362	
TYPICAL OFFICE ROOM	7'-0"	(2) 362JAM250-68 (50 KSI)	(1) 362JAM250-97 (50 KSI)	VertClip SL362	SIRClip AL362	SIRClip AL362	

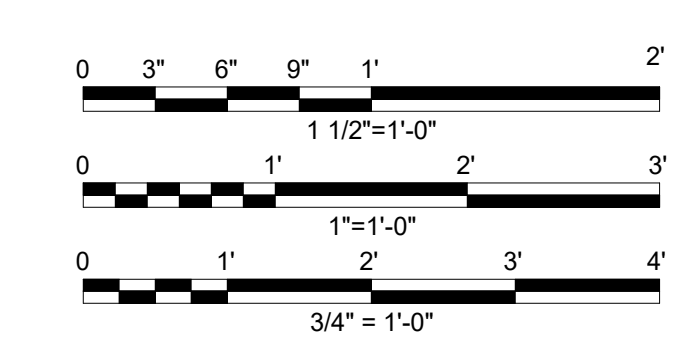
- ONLY HEADER AND JAMBS FOR THE LOCATIONS SPECIFIED HAVE BEEN DESIGNED BY JACOBS ENGINEERING GROUP.
- CLIPS AND CONNECTORS ARE BASED UPON PRODUCTS MANUFACTURED BY THE STEEL NETWORK. ALTERNATE CONNECTORS MAY BE USED IF APPROVED BY JACOBS ENGINEERING GROUP. SUBMIT ALTERNATES AND SUPPORTING DOCUMENTATION WITH SHOP DRAWINGS.
- HEADER AND JAMB MEMBERS SHALL BE ORIENTED SUCH THAT SOLID FLAT SURFACES CAN BE USED TO ATTACH DOOR FRAME.
- ALL CONNECTION HOLES FOR SIRClip AL TO JAMB MEMBER AT TOP OF JAMB CONNECTION SHALL BE FILLED WITH No. 12 TEK SCREWS. PROVIDE (2) HSB TYPE DS 8.177-22 PAF FOR ATTACHMENT OF SIRClip AL TO JAMB MEMBER.
- REFER TO DETAIL 105-101 FOR BUILT-UP ATTACHMENT REQUIREMENTS ON BOX HEADER AND JAMB CONFIGURATION.
- PROVIDE NUMBER OF FASTENERS AND SCREEN PATTERN FOR ATTACHMENT OF SIRClip CL TO JAMB MEMBER AT BASE OF JAMB CONNECTION AS SHOWN IN SCHEDULE. PROVIDE 1/2" HSB EXP ANCHOR WITH 2 1/4" EMBED FOR SIRClip CL ATTACHMENT TO CONCRETE.
- ALL CONNECTION HOLES FOR SIRClip AL TO JAMB MEMBER AT BASE OF JAMB CONNECTION SHALL BE FILLED WITH No. 12 SCREWS. PROVIDE (2) HSB TYPE DS 8.177-22 PAF FOR ATTACHMENT OF SIRClip AL TO CONCRETE MEMBER.
- ALL CONNECTION HOLES FOR SIRClip AL TO HEADER AND/OR SILL MEMBERS AT "HEADER" AND/OR "SILL" CONNECTION SHALL BE FILLED WITH No. 12 SCREWS.
- BACK TO BACK JAMB STUDS SHALL BE ATTACHED TOGETHER WITH (2) No. 12 SCREWS @ 12" O.C. PROVIDE CLOSURE TRACK ON OPEN FACE OF JAMB FOR ATTACHMENT OF WINDOW FRAME.
- ALL CONNECTIONS SHALL BE INSTALLED FOR MANUFACTURER'S RECOMMENDATIONS AS LISTED IN PRODUCT CATALOG PUBLISHED BY THE STEEL NETWORK.



14 NEW SLAB INTERFACE WITH EXISTING DEMISING STEM WALL
S-101 SCALE: 3/4" = 1'-0"

Number	Description	Date
0	ISSUE FOR CONSTRUCTION	12/20/2024

Key Plan: Project North True North



MODIFICATIONS TO EXISTING SYSTEMS

- 1. PREPARE IN NARRATIVE AND DRAWING FORMAT AS DIRECTED BY THE AUTHORITY...
2. COORDINATE IMPAIRMENT PLAN WITH GENERAL CONTRACTOR FOR INCORPORATION INTO THE NFPA 241 FIRE SAFETY PROGRAM...
3. IMPAIRMENT PLAN SHALL IDENTIFY THE BUILDING OCCUPANCY (OR VACANCY) DURING CONSTRUCTION AND NATURE OF THE SYSTEM IMPAIRMENT...
4. IMPAIRMENT PLAN SHALL IDENTIFY MAXIMUM IMPAIRMENT DURATION PERMITTED BY THE AUTHORITY HAVING JURISDICTION BEFORE ALTERNATE PROTECTION OR FIRE WATCHES ARE NECESSARY...
5. IMPAIRMENT PLAN SHALL IDENTIFY THE DURATION AND TIMING OF FIRE ALARM SYSTEM SHUTDOWNS AND RESULTANT REQUIREMENT FOR TEMPORARY PROTECTION MEASURES OR FIRE WATCHES, IF ANY...
6. IMPAIRMENT PLAN SHALL IDENTIFY THE NECESSARY PROVISIONS FOR TEMPORARY CIRCUIT CONNECTIONS TO EXISTING FIRE ALARM DEVICES AND APPLIANCES TO REMAIN IN SERVICE...
7. IMPAIRMENT PLAN SHALL IDENTIFY ADDITIONAL PROTECTION FEATURES INCLUDING FIRE WATCHES AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION...
8. FIRE ALARM OUTSIDE OF RENOVATION WORK AREA, INITIATING DEVICES AND NOTIFICATION APPLIANCES IN AREAS ADJACENT TO THE RENOVATION WORK AREA MUST REMAIN IN SERVICE THROUGHOUT THE DURATION OF CONSTRUCTION...
9. STROBE SYNCHRONIZATION ALLOWANCE. THE FLASH PATTERN OF EXISTING STROBE NOTIFICATION APPLIANCES ADJACENT TO THE RENOVATION WORK AREA BUT OPEN TO VIEW OF NEW STROBE NOTIFICATION APPLIANCES WITHIN THE RENOVATION WORK AREA SHALL BE SYNCHRONIZED...
10. FIRE ALARM PULL BOXES WITHIN RENOVATION WORK AREA. MAINTAIN MANUAL PULL BOXES AT EXITS WITHIN AREA OF RENOVATION...
11. FIRE ALARM NOTIFICATION APPLIANCES WITHIN RENOVATION WORK AREA. MAINTAIN NOMINAL AUDIBLE AND VISIBLE SIGNALING WITHIN THE RENOVATION WORK AREA...
12. SMOKE AND HEAT DETECTORS WITHIN RENOVATION WORK AREA. PROTECT EXISTING DETECTORS TO REMAIN FROM DUST AND DEBRIS THROUGHOUT THE DURATION OF CONSTRUCTION...
13. FIRE ALARM INTERFACE MODULES WITHIN RENOVATION WORK AREA. MAINTAIN THE OPERATION OF EXISTING INPUT AND OUTPUT INTERFACE MODULES TO EXISTING EQUIPMENT THROUGHOUT THE DURATION OF CONSTRUCTION...
14. PROTECTION. PROTECT EXISTING FIRE ALARM DEVICES, APPLIANCES, AND EQUIPMENT FROM DUST, DEBRIS, PAINT, SPRAY, OR FIRE-PROOFING, AND SIMILAR THROUGHOUT THE DURATION OF CONSTRUCTION...
15. FIXED-TEMPERATURE LINEAR HEAT DETECTION. INSTALL TEMPORARY FIXED-TEMPERATURE (100°F) LINEAR HEAT DETECTION IN RENOVATION WORK AREAS WHERE THE SPRINKLER SYSTEM WILL BE IMPAIRED FOR LONGER THAN ONE (1) WORK SHIFT OR AS OTHERWISE REQUIRED...
16. PROGRAMMING. UPDATE FIRE ALARM SYSTEM PROGRAMMING AS REQUIRED TO INCLUDE NEW ADDRESSES, DELETED ADDRESSES AND SEQUENCE OF OPERATIONS CHANGES...
17. EXISTING WORK STATIONS. UPDATE PROGRAMMING AND GRAPHICS FILES OF EXISTING WORKSTATIONS AS REQUIRED TO ACCURATELY REFLECT FIRE ALARM SYSTEM MODIFICATIONS...
18. EXISTING GRAPHIC ANNUNCIATORS & SWITCHES. REPLACE EXISTING GRAPHIC ANNUNCIATOR, OPERATOR SWITCHES, LABELS AND SIMILAR AS REQUIRED TO ACCURATELY REFLECT THE FIRE ALARM SYSTEM MODIFICATIONS...
19. EXISTING IDENTIFICATION. REPLACE EXISTING FIRE ALARM SIGNAGE, GRAPHICS, FRAMED MAPS, AND SIMILAR WITH NEW AS REQUIRED TO ACCURATELY REFLECT FIRE ALARM SYSTEM MODIFICATIONS...
20. EXISTING DOCUMENTATION. AMEND EXISTING PROPERTY RECORDS WITH SUPPLEMENTAL FIRE ALARM RECORD DOCUMENTATION INCLUDING DRAWINGS AND TEST REPORTS FOR THE ALTERATION WORK PERFORMED.

DOCUMENT SUBMITTAL PROCESS

- 1. THE DESIGN CONTENT OF THESE DRAWINGS IS INTENDED TO SATISFY THE DESIGN INTENT OF THE BUILDING CODE REQUIREMENTS FOR CONSTRUCTION DOCUMENTS...
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING A COMPLETE SHOP DRAWING SUBMITTAL INCLUSIVE OF ALL INFORMATION CHANGES AND ALL INFORMATION REQUIRED BY THE STATE BUILDING CODE AND THE CONSTRUCTION DOCUMENTS...
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING A COMPLETE RECORD DRAWING SUBMITTAL INCLUSIVE OF ALL FIELD CHANGES AND ALL INFORMATION REQUIRED BY THE STATE BUILDING CODE AND THE CONSTRUCTION DOCUMENTS...
4. SHOP DRAWINGS AND RECORD DRAWING SUBMITTALS SHALL BE PREPARED BY THE CONTRACTOR'S QUALIFIED ENGINEERING TECHNICIAN AND SHALL INDICATE THE TECHNICIAN'S NICET CERTIFICATION NUMBER OR PROFESSIONAL ENGINEERING SEAL & SIGNATURE AS REQUIRED BY THE CONSTRUCTION DOCUMENTS...
5. THE ENGINEER OF RECORD SHALL NOT SIGN AND SEAL SHOP DRAWING OR RECORD DRAWING SUBMITTALS PREPARED BY THE CONTRACTOR...
6. THE ENGINEER OF RECORD SHALL SIGN AND SEAL SHOP DRAWING OR RECORD DRAWING SUBMITTALS PREPARED BY THE CONTRACTOR...
7. THE ENGINEER OF RECORD SHALL SIGN AND SEAL SHOP DRAWING OR RECORD DRAWING SUBMITTALS PREPARED BY THE CONTRACTOR...
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19. THE ENGINEER OF RECORD SHALL SIGN AND SEAL SHOP DRAWING OR RECORD DRAWING SUBMITTALS PREPARED BY THE CONTRACTOR...
20. THE ENGINEER OF RECORD SHALL SIGN AND SEAL SHOP DRAWING OR RECORD DRAWING SUBMITTALS PREPARED BY THE CONTRACTOR...

INSPECTION AND TESTING

- 1. PREPARE A TYPEWRITTEN COMPUTER-OUTPUT TEST PLAN THAT CLEARLY ESTABLISHES THE SCOPE OF FIRE ALARM AND SIGNALING SYSTEM TESTING INCLUDING A MINIMUM TESTING METHODS, PERSONNEL, DURATION, PLANNED IMPAIRMENTS, AND REQUIRED COORDINATION FOR INTEGRATED TESTING OF EMERGENCY CONTROL FUNCTION INTERFACES...
2. FUNCTIONAL FIELD TESTS SHALL BE WITNESSED BY THE CONSTRUCTION MANAGER (CM), THEIR DESIGNEES, AND WHEN CONTRACTED BY THE OWNER THE FIRE AND LIFE SAFETY COMMISSION AGENT (FCAL) PROVIDE NOTIFICATIONS A MINIMUM OF TWO (2) WEEKS IN ADVANCE...
3. ACCEPTANCE FIELD TESTING SHALL BE WITNESSED BY THE CM, THEIR DESIGNEES, AND AUTHORITIES HAVING JURISDICTION (AHJ); PROVIDE NOTIFICATIONS A MINIMUM OF TWO (2) WEEKS IN ADVANCE...
4. PERFORM VISUAL INSPECTIONS IN ACCORDANCE WITH FIRE ALARM SYSTEM MANUFACTURER RECOMMENDATIONS AND NFPA 72 FOR INITIAL ACCEPTANCE INSPECTIONS...
5. DOCUMENT INSPECTIONS BY COMPLETING APPLICABLE SECTIONS OF THE NFPA 72 "SYSTEM RECORD OF INSPECTION AND TESTING" REPORT...
6. PROVIDE WRITTEN NOTIFICATIONS FOR FUNCTIONAL FIELD TESTS, INCLUDE TEST PLAN...
7. PERFORM FUNCTIONAL TESTING IN ACCORDANCE WITH ACCORDANCE WITH FIRE ALARM SYSTEM MANUFACTURER RECOMMENDATIONS AND NFPA 72 FOR "INITIAL ACCEPTANCE TESTING" CORRECT DEFICIENCIES, REPEAT FUNCTIONAL TESTING INCLUDING RETESTING OF UNAFFECTED COMPONENTS IN ACCORDANCE WITH NFPA 72 FOR "REACCEPTANCE TESTING"...
8. REPEAT FUNCTIONAL TESTING AS REQUIRED BY THE FIRE AND LIFE SAFETY COMMISSION AGENT (FCAL) WHERE AN FCAL IS CONTRACTED BY THE OWNER...
9. DOCUMENT 100 PERCENT SATISFACTORY FUNCTIONAL TESTS BY COMPLETING REMAINING SECTIONS OF THE NFPA 72 "SYSTEM RECORD OF INSPECTION AND TESTING" REPORT...
10. SUBMIT NFPA 72 "STATEMENT OF COMPLETION" AND COMPLETED NFPA 72 "SYSTEM RECORD OF INSPECTION AND TESTING" REPORT...
11. PROVIDE WRITTEN NOTIFICATIONS FOR ACCEPTANCE FIELD TESTS, INCLUDE TEST PLAN, NFPA 72 "STATEMENT OF COMPLETION", NFPA 72 "SYSTEM RECORD OF INSPECTION AND TESTING" REPORT, AND NFPA 72 "SYSTEM RECORD OF COMPLETION"...
12. PERFORM ACCEPTANCE FIELD TESTING. DEMONSTRATE SYSTEM OPERATION TO THE SATISFACTION OF THE AHJ. CORRECT AHJ NOTED DEFICIENCIES REPEAT FUNCTIONAL TESTING INCLUDING RETESTING OF UNAFFECTED COMPONENTS IN ACCORDANCE WITH NFPA 72 FOR "REACCEPTANCE TESTING", AMEND NFPA 72 "SYSTEM RECORD OF INSPECTION AND TESTING" REPORT, AND NFPA 72 "SYSTEM RECORD OF COMPLETION"...
13. PLACE SYSTEM INTO NORMAL OPERATING SERVICE WITHOUT SYSTEM FAULTS OR OUTSTANDING WORK.

GENERAL REQUIREMENTS

- 1. PURPOSE OF ENGINEERING DRAWINGS. THE DRAWINGS ARE DIAGRAMMATIC, THEY ARE NOT INTENDED TO BE ABSOLUTELY PRECISE...
2. MINIMUM PERFORMANCE REQUIREMENTS. INTERPRET DRAWING AND SPECIFICATION REQUIREMENTS THAT ARE MORE STRINGENT THAN FEDERAL, STATE, & MUNICIPAL CODE-MINIMUM AS DELIBERATELY CONSIDERED PERFORMANCE CRITERIA THAT ARE A MANDATORY PART OF THE WORK...
3. DESIGN STANDARDS. COMPLY WITH NFPA 70 & 72...
4. APPROVALS. PRODUCTS SHALL BE UL LISTED AND FM APPROVED FOR FIRE PROTECTION DUTY AND THE INTENDED SERVICE APPLICATION...
5. ALL WORK IS NEW, UNLESS SPECIFICALLY NOTED AS EXISTING, ALL COMPONENTS INDICATED BY THE DRAWINGS ARE NEW...
6. RELATED DOCUMENTS. THE NECESSARY UNDERSTANDING OF THE PROJECT SCOPE AND FIRE ALARM AND SIGNALING WORK CANNOT BE OBTAINED WITHOUT REVIEW OF ALL PROJECT DOCUMENTS...
7. GENERAL INSTALLATION. INSTALL SYSTEM IN A WORKMANLIKE FASHION AND IN A RECTILINEAR ARRANGEMENT WITH PATHWAYS, EQUIPMENT, DEVICES, AND APPLIANCE PERPENDICULAR AND PARALLEL, WITH BUILDING ARCHITECTURAL AND STRUCTURAL ELEMENTS...
8. FIRE DEPARTMENT OPERATIONS. INSTALL FIRE ALARM DISPLAYS, AND CONTROLS, PRIVATE-MODE SIGNALING APPLIANCES, SIGNAGE, AND OTHER COMPONENTS REQUIRING FIRE FIGHTER PERSONNEL INTERFACE DURING EMERGENCY OPERATIONS IN READILY IDENTIFIABLE LOCATIONS...
9. RACEWAY. UNLESS OTHERWISE NOTED, WIRE AND CABLE PATHWAYS SHALL BE DEDICATED CONTINUOUS METAL RACEWAY THROUGHOUT...
10. WIRE AND CABLE. FPL POWER-LIMITED FIRE ALARM SHALL BE CABLE RUN CONTINUOUS BETWEEN COMPONENT TERMINALS WITHOUT SPICES...
11. SURVIVABILITY. FIRE ALARM EQUIPMENT AND PATHWAYS SHALL BE SURVIVABLE AGAINST THE EFFECTS OF FIRE DAMAGE AS INDICATED...
12. T-TAPPING. CIRCUITS SHALL BE ARRANGED WITHOUT T-TAPS...
13. INTERFACES. DIVISION 28 WORK INCLUDES WIRING AND TERMINATIONS FROM INTERFACE MODULES TO ASSOCIATED EQUIPMENT TERMINALS...
14. PRIMARY POWER SUPPLY SHALL BE FROM A SEPARATE FUSED CIRCUIT FREE FROM FAULTS INCLUDING GROUNDS, SHORTS, OPENS, STRAY VOLTAGE, OR NOISED VOLTAGE...
15. COORDINATION. MAKE REASONABLE AND NECESSARY MODIFICATIONS IN LAYOUTS AND COMPONENT ARRANGEMENT NECESSARY TO PREVENT CONFLICT WITH AND TO ACCOMMODATE OTHER DIVISIONS OF THE WORK...
16. CLEARANCES. INSTALL CONDUIT, BOXES, CABINETS, AND SYSTEM COMPONENTS TO MAINTAIN MINIMUM CLEARANCES REQUIRED TO OPERATE AND MAINTAIN FIRE ALARM AND SIGNALING EQUIPMENT...
17. PENETRATIONS. USE SPECIFIED SLEEVES, SLEEVE SEALS, AND ESCUTCHEONS AT RACEWAY PENETRATIONS...
18. ACCESS TO COMPONENTS. INSTALL WALL MOUNT EQUIPMENT CABINETS WITH CONTROLS AND DISPLAYS SUCH THAT THEY ARE READILY ACCESSIBLE AND VISIBLE TO RESPONDING PERSONNEL...
19. SUPPORT. CONDUITS, CABLES, AND RACEWAY SHALL NOT BE SUPPORTED BY CEILING GRID SYSTEMS...
20. IDENTIFICATION. PROVIDE IDENTIFICATION AT ALL DEVICES, APPLIANCES, MODULES, AND CABINET ENCLOSURES...
21. FIRE PROTECTION DURING CONSTRUCTION. PROVIDE FIRE PROTECTION DURING CONSTRUCTION INCLUDING BUT NOT LIMITED TO SPRINKLER / STANDPIPE SUPERVISION, AUDIBLE AND VISIBLE ALARMS, AND CENTRAL STATION SUPERVISION AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION...
22. ON-SITE AS-BUILT DOCUMENTATION. MAINTAIN COMPLETE AND SEPARATE SET OF INSTALLATION DRAWINGS ON-SITE AT ALL TIMES...
23. RECORD WORK COMPLETED AND ALL MODIFICATIONS CLEARLY AND ACCURATELY.

Jacobs Engineering Group, Inc. Two Commerce Square 2001 Market Street 9th Floor, Suite 900 Philadelphia, PA 19103
VANDERWEIL R.G. Vanderweil Engineers, LPP 274 Summer Street Boston, MA 02210
Seals: [Professional Engineer Seal]

General Notes:

Project Title: Fidelity Investments
Fidelity Real Estate Company
245 Summer Street
Boston, MA 20110

7171 E. Paradise Lane
Suite R-120
Scottsdale, AZ 85254

Table with 3 columns: Number, Description, Date. Row 1: 1, Issued for Permit & Construction, 23 DEC 24.

Key Plan:

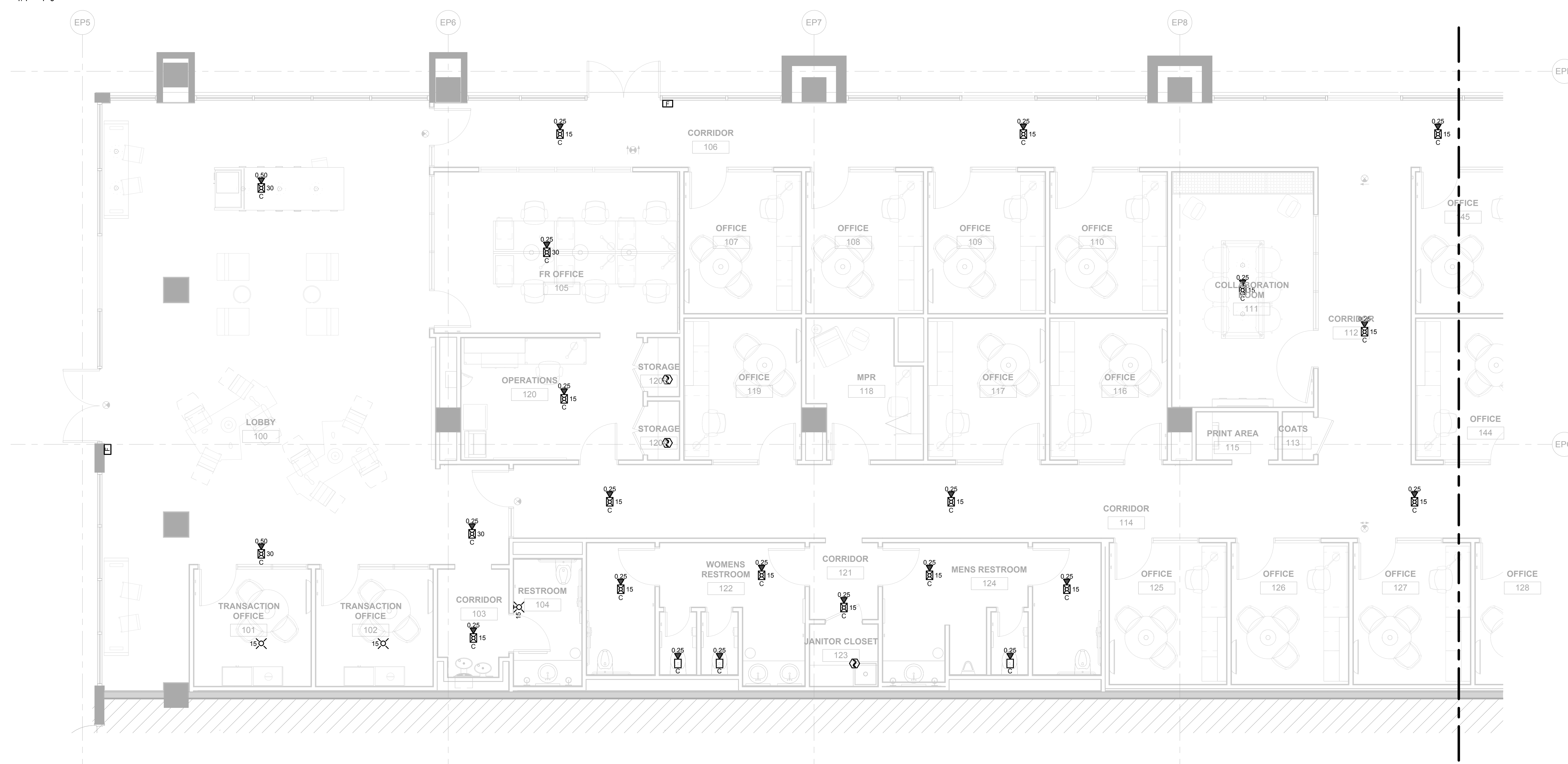
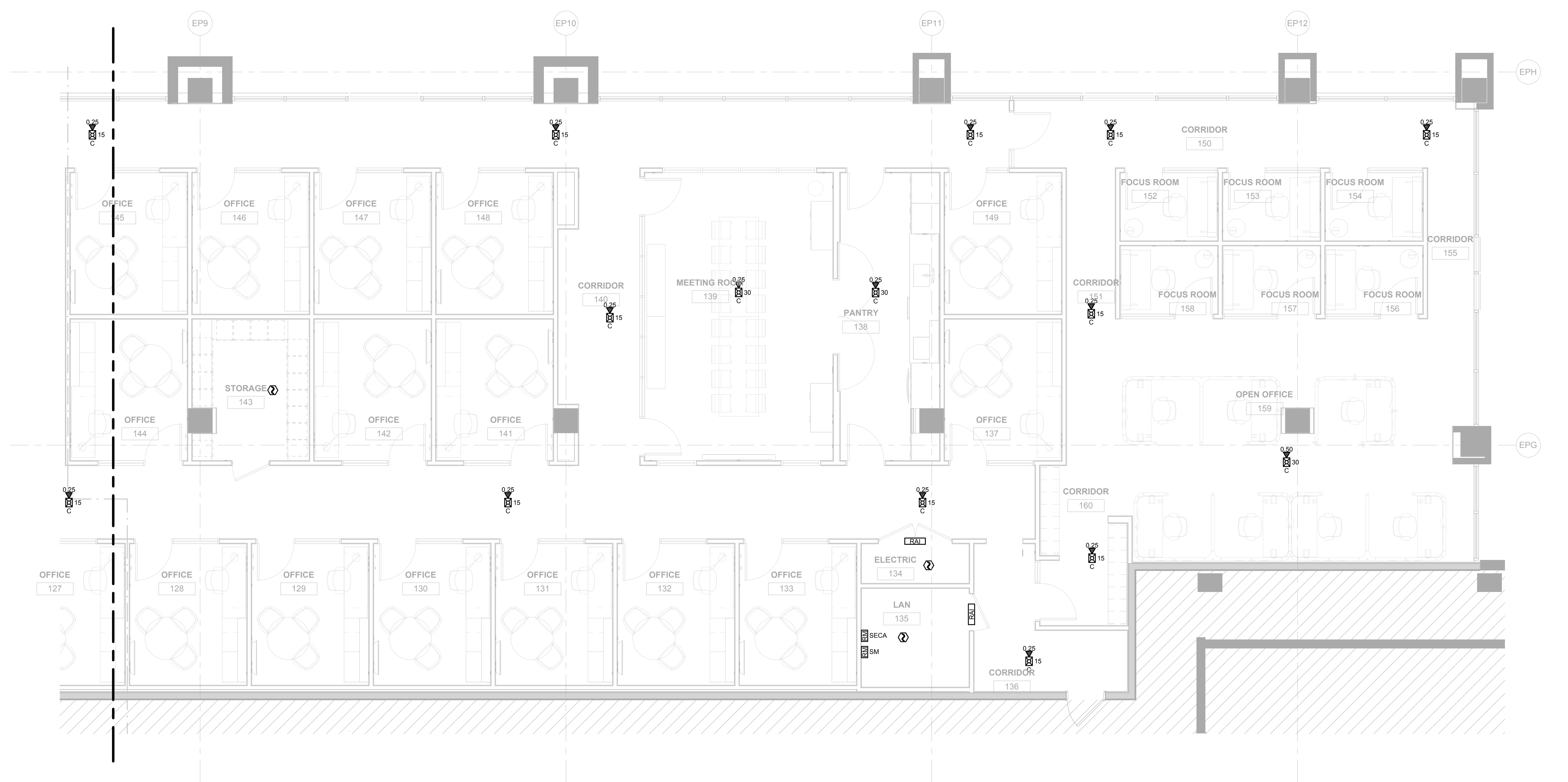
Project No.: C0115.00
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Drawing Sheet Title: FIRE ALARM - NOTES & DESIGN CRITERIA

Drawing Sheet Number: FA-002

Owner's Branch No.: 134

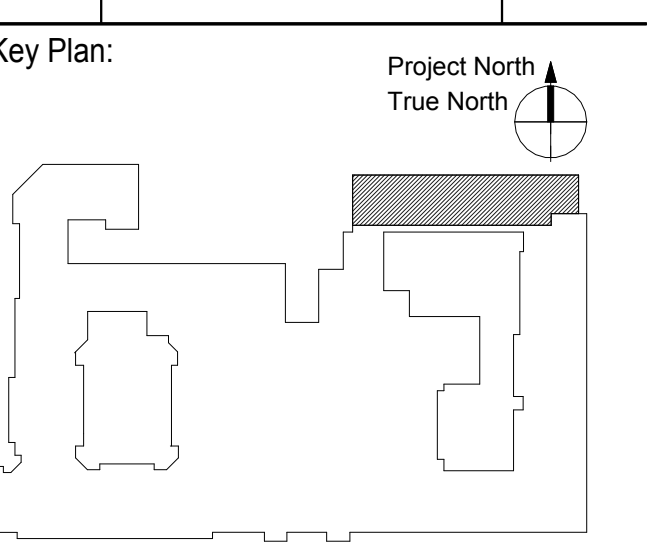
- GENERAL NOTES:
- A. REFER TO ARCHITECTURAL & STRUCTURAL SERIES DRAWINGS FOR STRUCTURAL FRAMING PLANS, DETAILED REFLECTED CEILING PLANS, ELEVATIONS, AND SECTIONS.
 - B. IN AREAS WITH FINISHED CEILINGS, LOCATE CEILING MOUNTED DEVICES AND APPLIANCES IN THE CENTER OF SUSPENDED CEILING TILES, ALONG THE CENTER-LINE OF CEILING FEATURES AND IN-LINE WITH ADJACENT CEILING FIXTURES.
 - C. LOCATE WALL MOUNTED DEVICES AND APPLIANCES IN ACCORDANCE WITH NFPA 72 REQUIREMENTS AND IN ALIGNMENT WITH ADJACENT WALL MOUNT SWITCHES, WALL PLATES AND SIMILAR ELEMENTS.
 - D. LOCATE CEILING MOUNTED SMOKE AND HEAT DETECTORS WITH RESPECT TO CEILING POCKETS AND OBSTRUCTIONS SUCH AS EXPOSED BEAMS AND SOFFITS IN ACCORDANCE WITH NFPA 72.
 - E. COMPLY WITH NFPA 72 AND THE DESIGN INTENT INDICATED ON THE DRAWINGS WITH RESPECT TO INTERFACES REQUIRED FOR EMERGENCY CONTROL FUNCTIONS SUCH AS (BUT NOT LIMITED TO) ELEVATOR RECALL, FIRE SMOKE DAMPER OPERATION, AND HVAC UNIT SHUTDOWN. DETERMINATION OF THE EXACT QUANTITY AND ARRANGEMENT OF INTERFACE MODULES REQUIRED SHALL BE THE RESPONSIBILITY OF THE INSTALLERS QUALIFIED DESIGNER.
 - F. SHOP DRAWINGS INCLUSIVE OF DEVICE AND APPLIANCE LAYOUTS, PATHWAYS AND CIRCUITING, COMPONENT ADDRESSES, EMERGENCY CONTROL INTERFACES AND CORRESPONDING CALCULATIONS SHALL BE PREPARED BY THE INSTALLER'S QUALIFIED ENGINEERING TECHNICIAN. SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW AND SHALL BE USED FOR FIRE ALARM SYSTEM INSTALLATION PERMITS.
 - G. ALL NEW FIRE ALARM INITIATING DEVICES SHALL BE CONNECTED TO THE NEAREST INITIATING CIRCUIT ASSOCIATED WITH THE EXISTING LANDLORD FIRE ALARM SYSTEM.
 - H. ALL NEW FIRE ALARM NOTIFICATION DEVICES SHALL BE CONNECTED TO THE NEAREST NOTIFICATION CIRCUIT ASSOCIATED WITH THE EXISTING LANDLORD FIRE ALARM SYSTEM.



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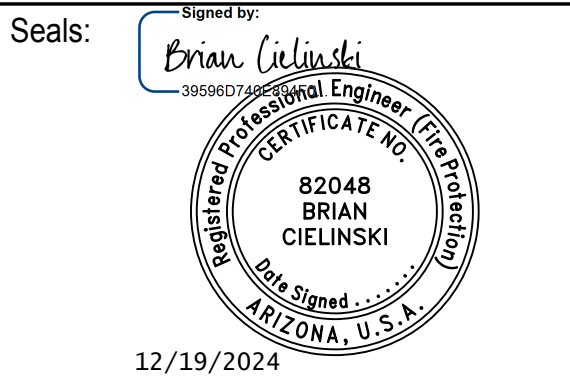


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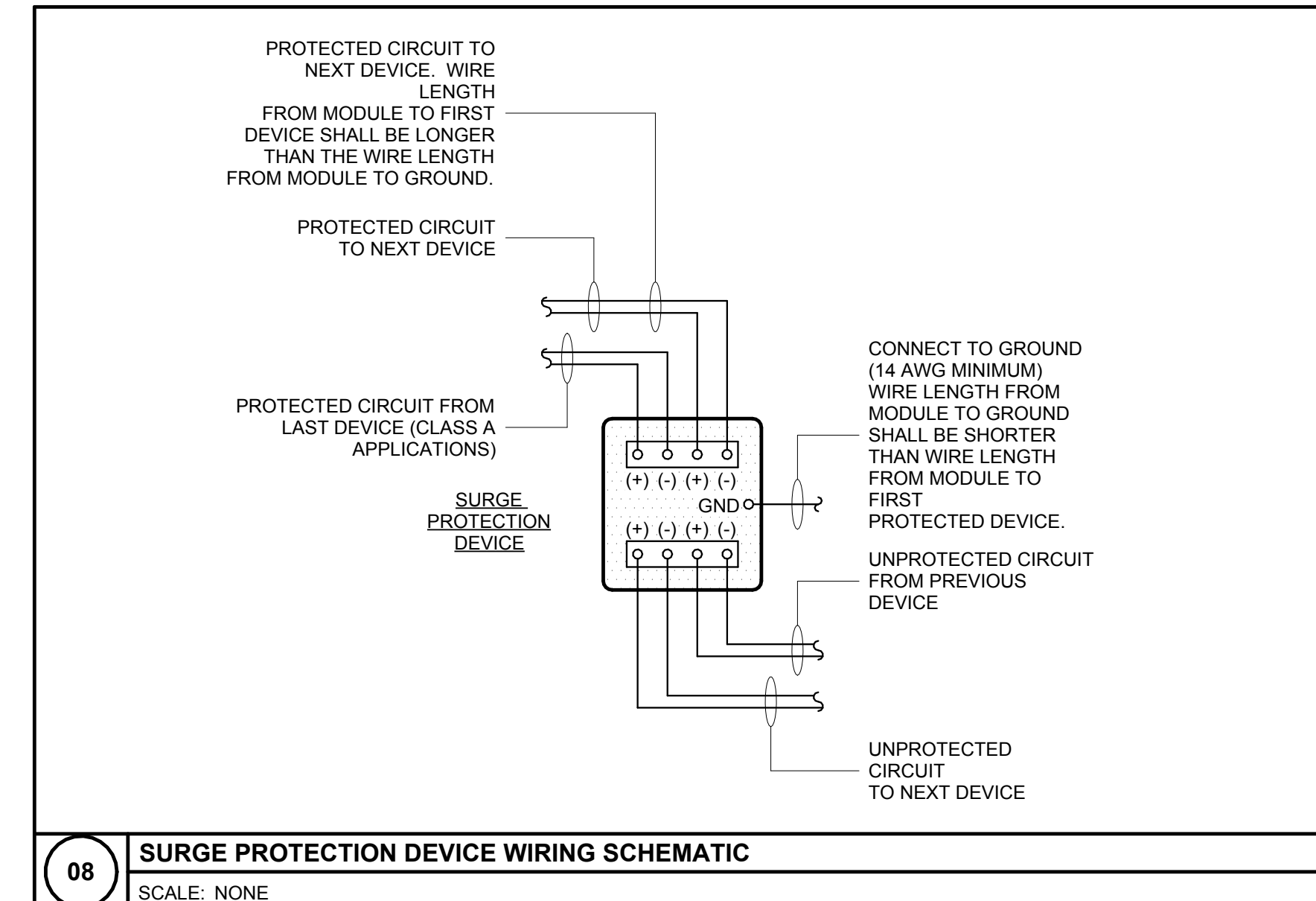
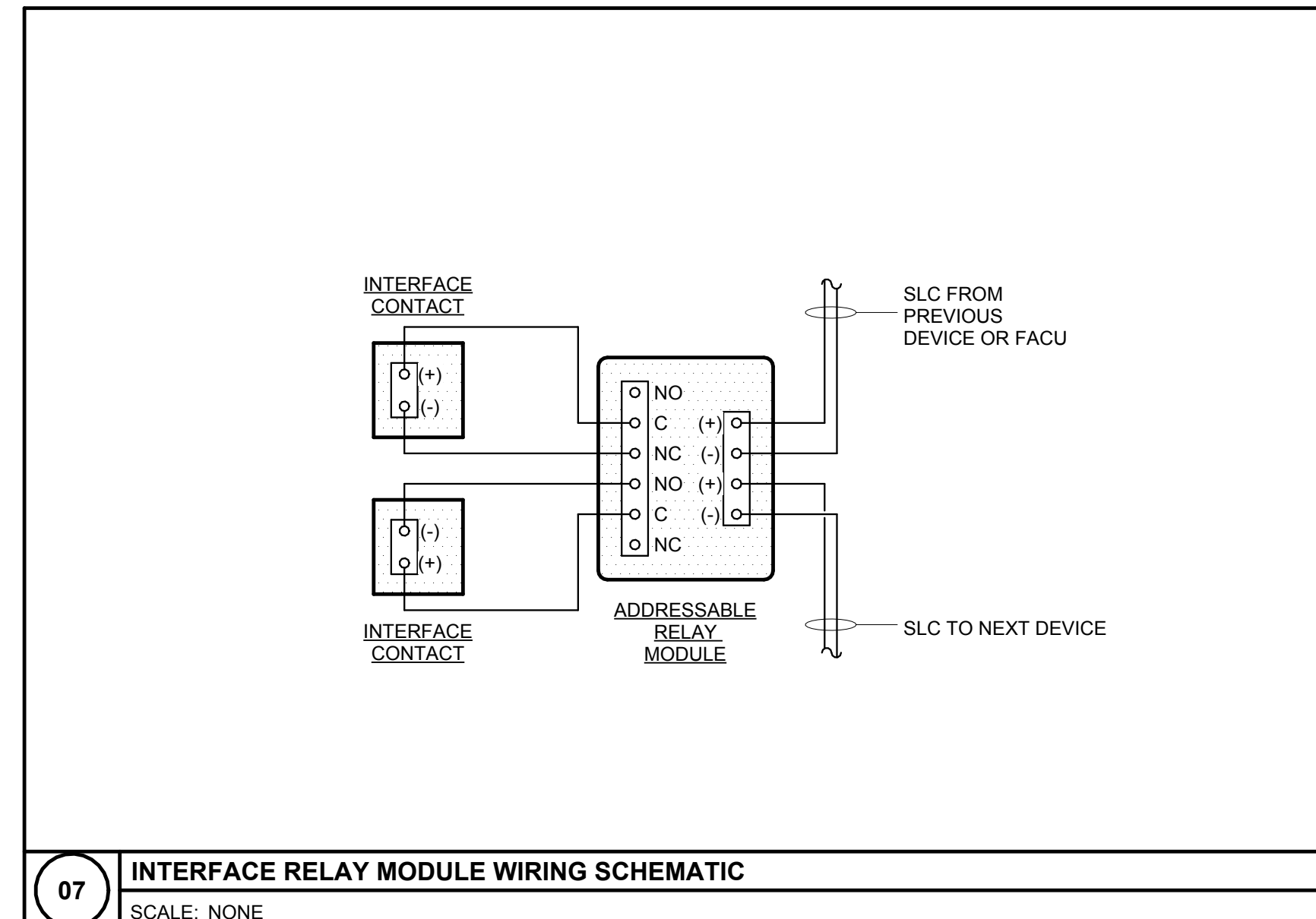
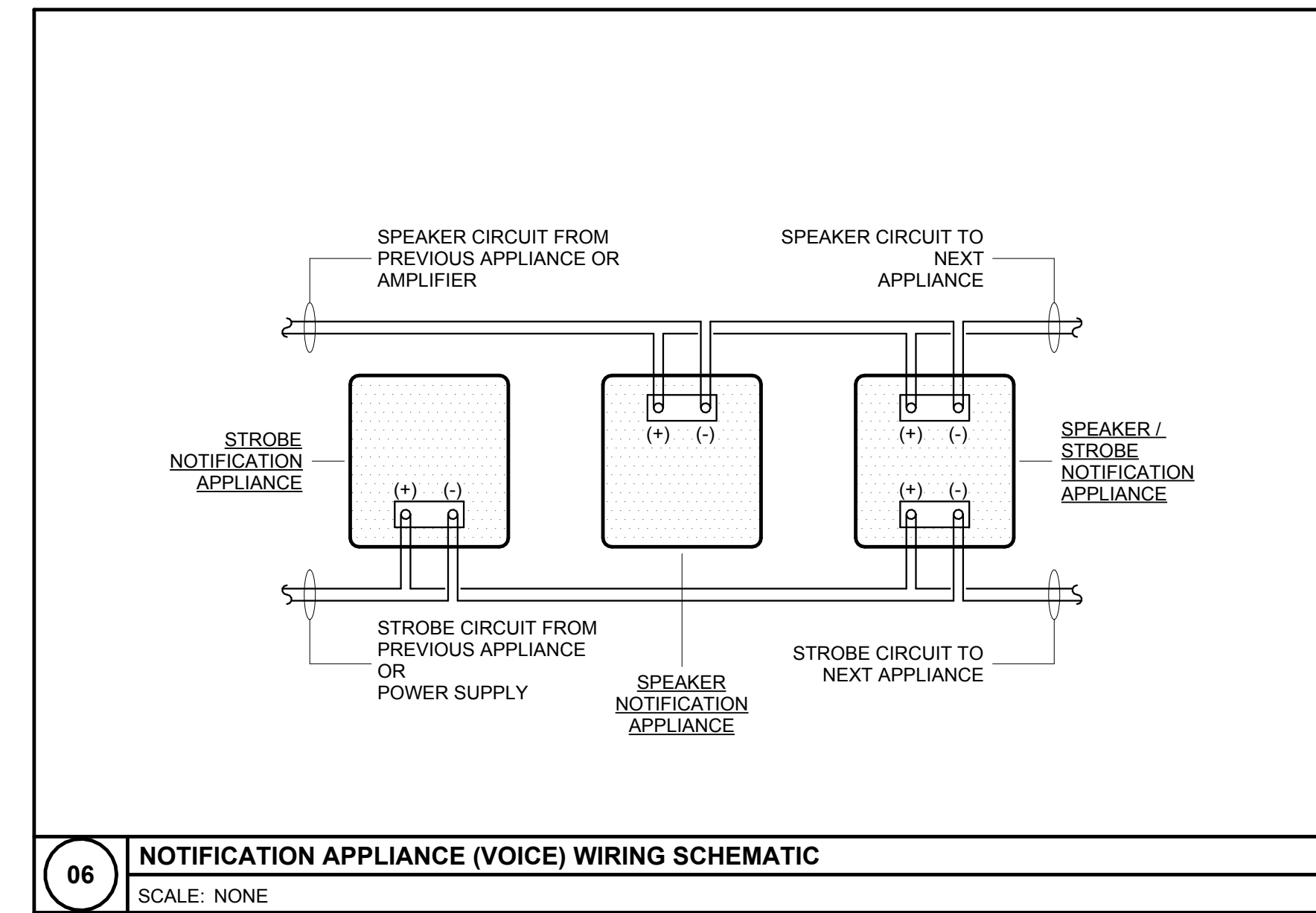
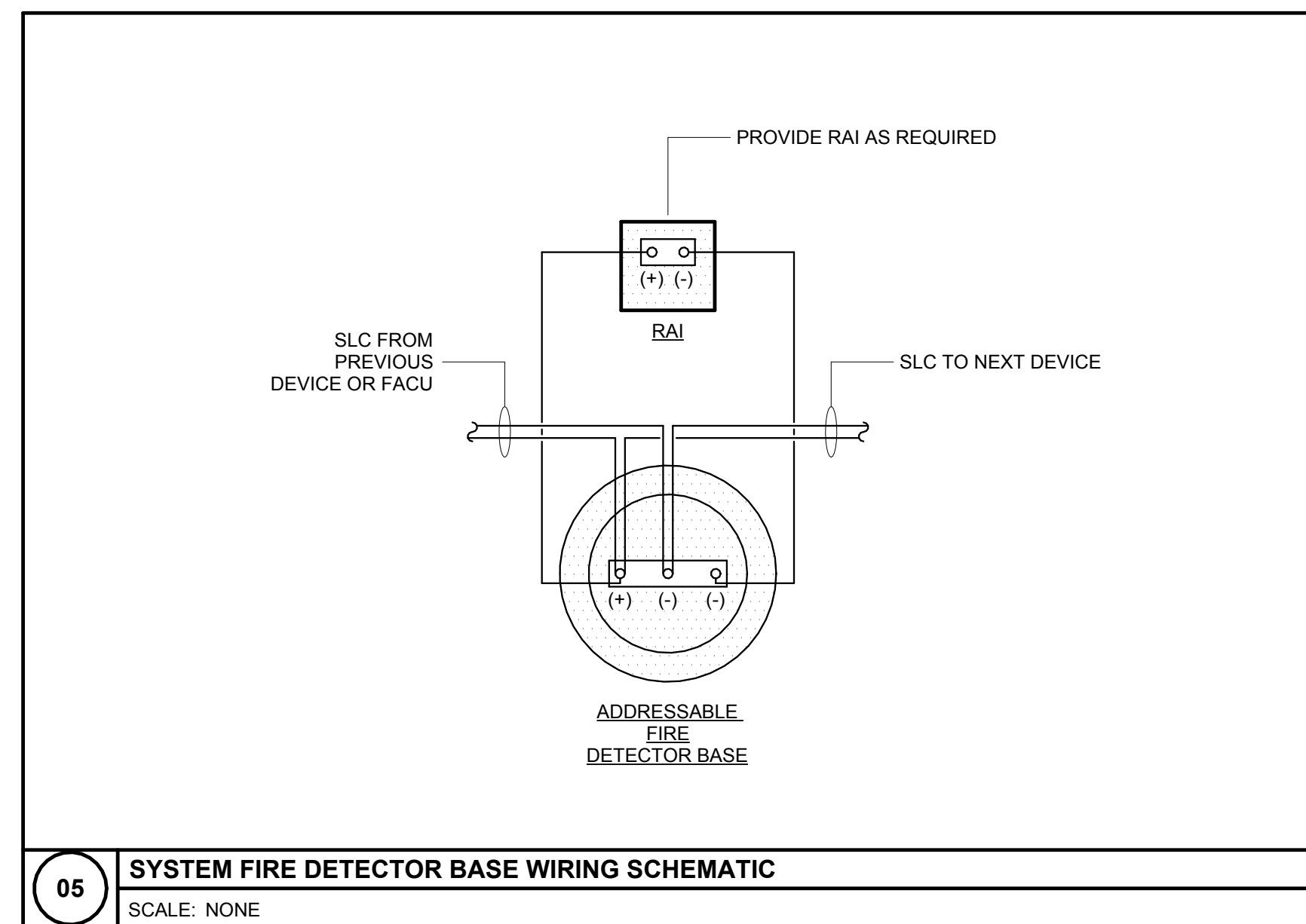
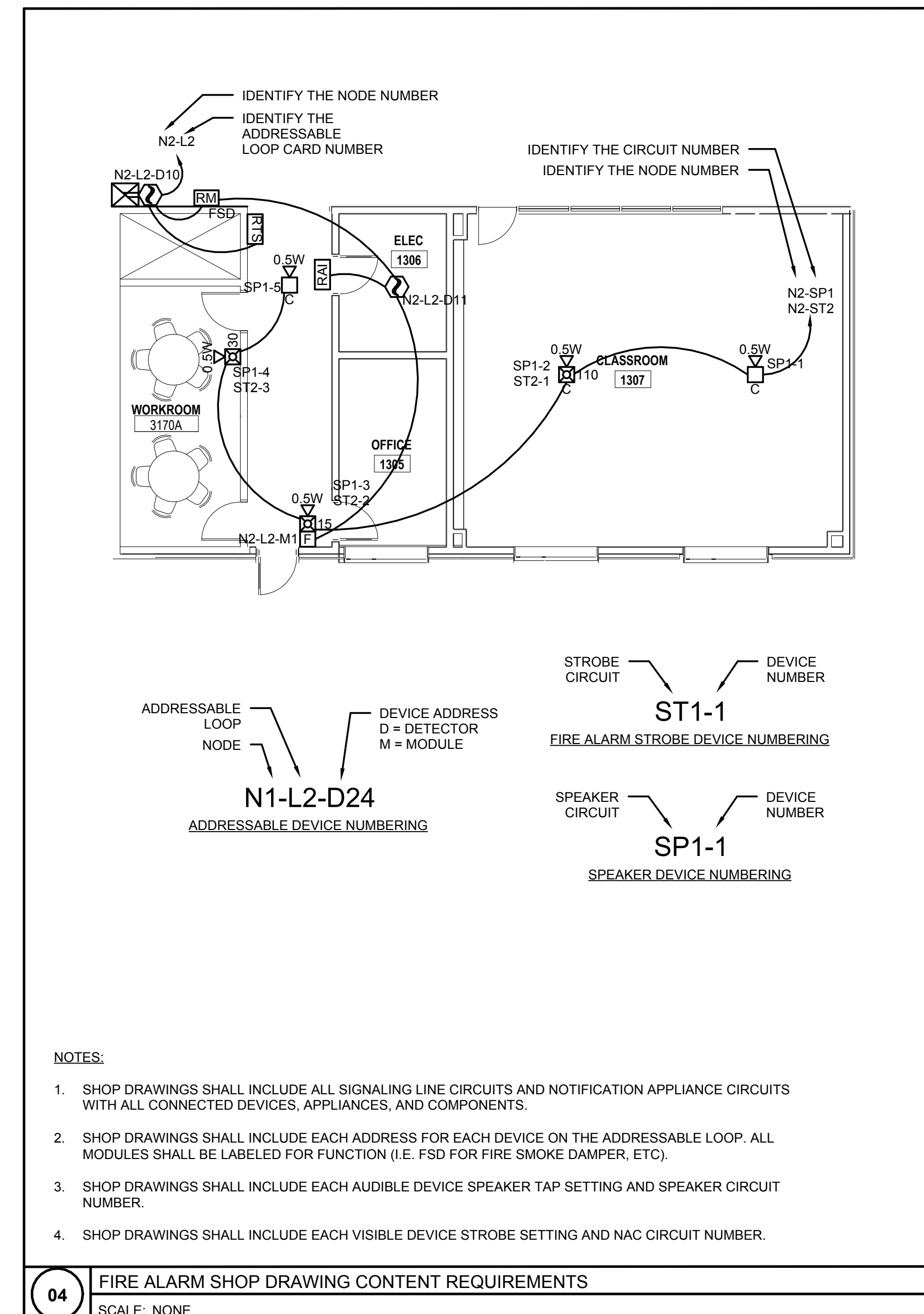
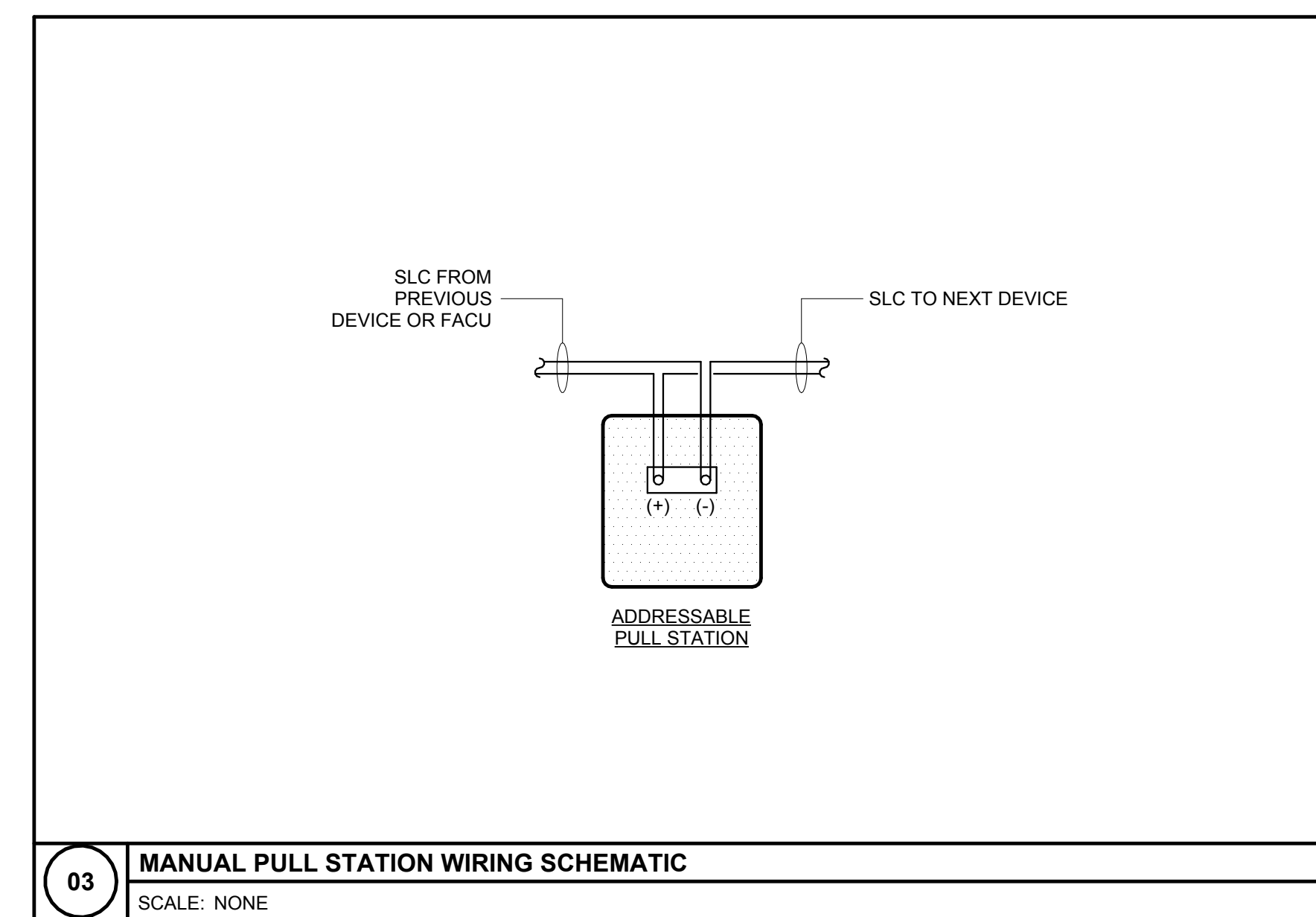
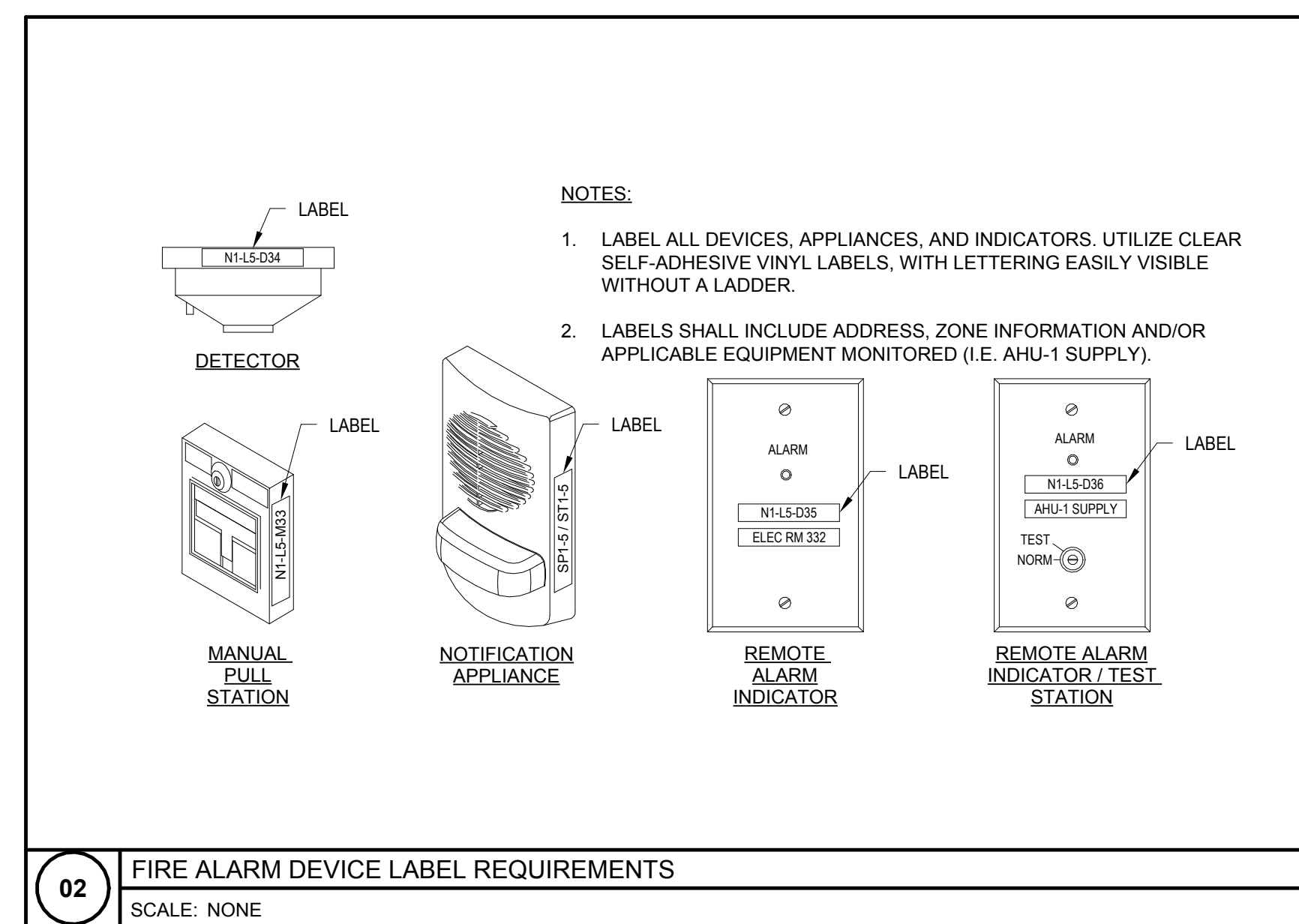
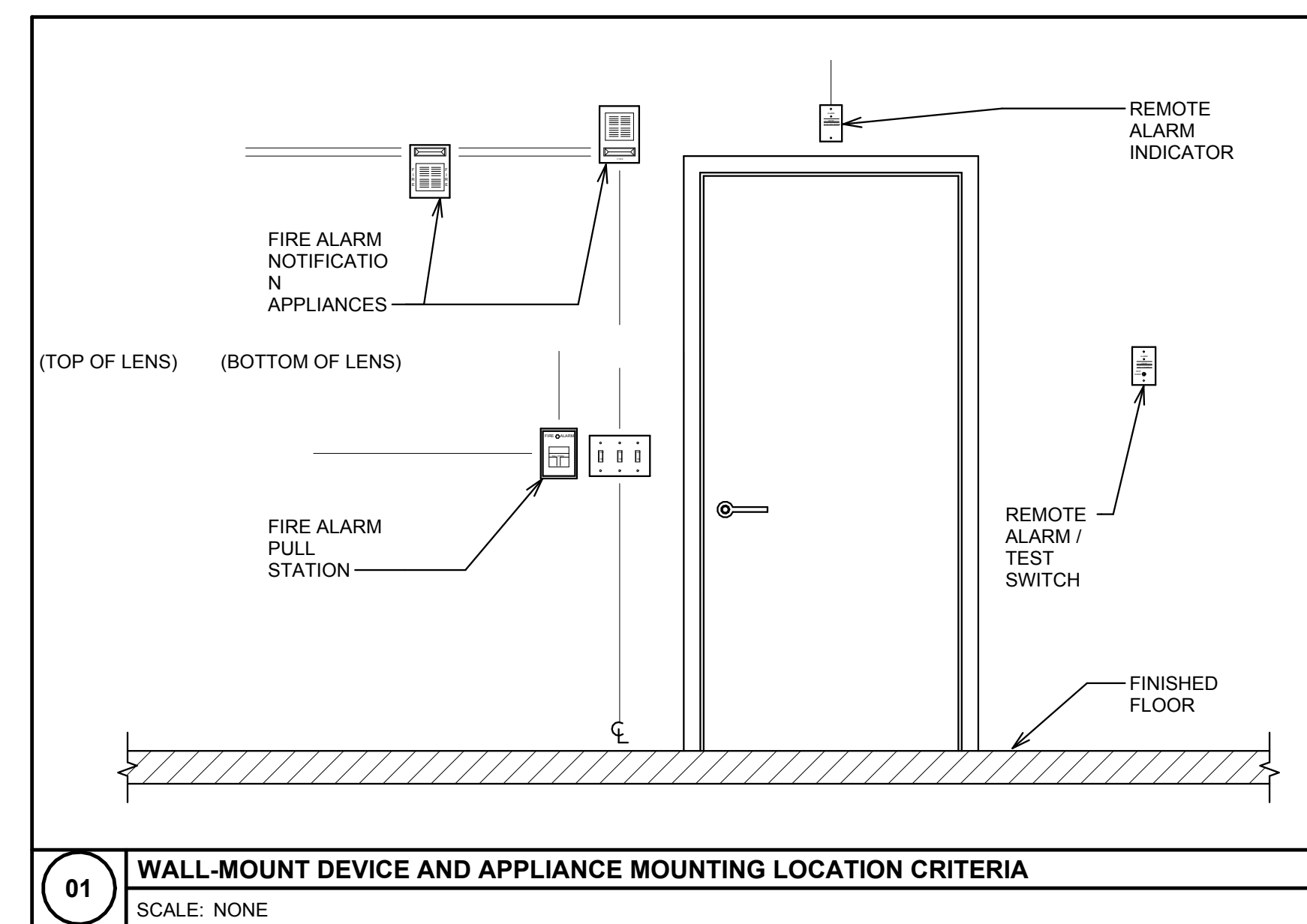
Drawing Sheet Title:
FIRE ALARM - LEVEL 1

Drawing Sheet Number:
FA-201

Owner's Branch No.:
134



General Notes:


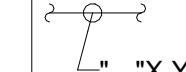


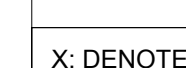
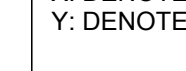
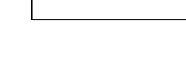
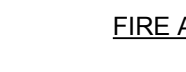



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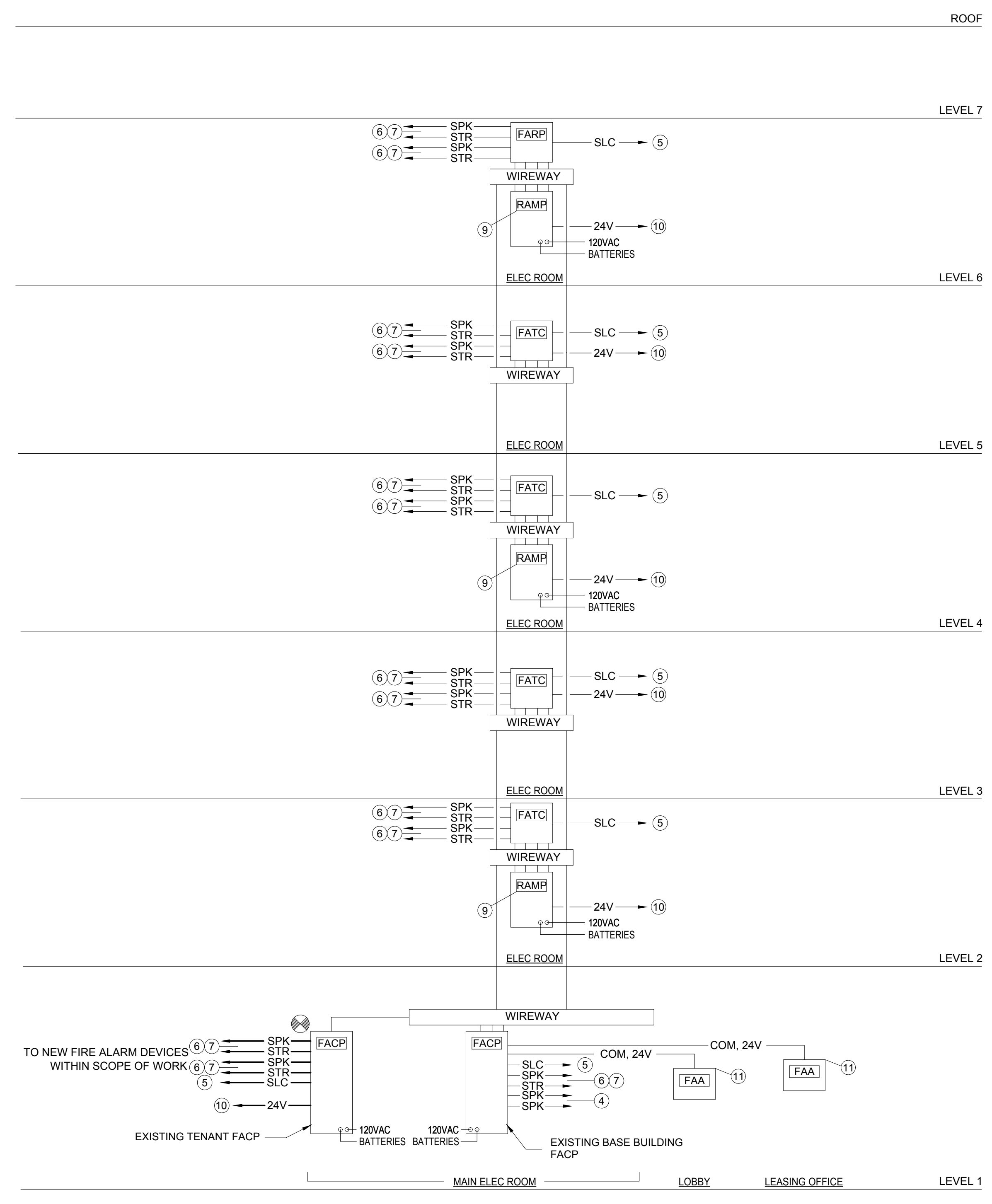
FIRE ALARM RISER KEY NOTES:

- ①— MAIN FIRE ALARM/EMERGENCY COMMUNICATIONS SYSTEM CONTROL UNIT.
- ②— SUB FIRE ALARM CONTROL UNIT.
- ③— FIRE ALARM POWER SUPPLIES, FINAL EQUIPMENT QUANTITIES TO BE COORDINATED AND SHOWN ON SHOP DRAWINGS.
- ④— IF CONNECTION TO SUPERVISING STATION FROM DIGITAL ALARM COMMUNICATOR TRANSMITTER (DACT).
- ⑤— SIGNALING LINE CIRCUIT (SLC) - USED FOR INITIATING DEVICES SUCH AS: PULL STATIONS, AREA SMOKE DETECTORS, INACT SMOKE DETECTORS, CONTROL RELAYS, SPRINKLER SYSTEM SUPERVISION, ETC.
- ⑥— FIRE ALARM STROBE CIRCUITS (STR) - USED FOR OCCUPANT NOTIFICATION, VIA STROBE APPLIANCES. FINAL EQUIPMENT QUANTITIES TO BE COORDINATED AND SHOWN ON SHOP DRAWINGS.
- ⑦— SPEAKER CIRCUITS (SPK) - USED FOR OCCUPANT NOTIFICATION, VIA FIRE ALARM VOICE EVACUATION SPEAKERS/APPLIANCES. FINAL EQUIPMENT QUANTITIES TO BE COORDINATED AND SHOWN ON SHOP DRAWINGS.
- ⑧— SPEAKER CIRCUITS (SPK) - DEDICATED FOR OCCUPANT NOTIFICATION (PAGING ONLY) IN THE TOWER STAIRWELLS.
- ⑨— FIRE ALARM DIGITAL AUDIO AMPLIFIERS, FINAL EQUIPMENT QUANTITIES TO BE COORDINATED AND SHOWN ON SHOP DRAWINGS.
- ⑩— 24V POWER FOR DOOR HOLDS (IF REQUIRED)
- ⑪— REMOTE FIRE ALARM ANNUNCIATOR PANEL

FIRE ALARM CIRCUIT LEGEND	
	BDAA - BI-DIRECTIONAL AMPLIFIER ALARM PANEL
	COM - NETWORK COMMUNICATION
	COX - BIDIRECTIONAL AMPLIFIER COAX CABLE
	DVC - DIGITAL VOICE COMMUNICATION
	SLC - SIGNALING LINE CIRCUIT
	SPK - SPEAKER CIRCUIT
	STR - FIRE ALARM STROBE CIRCUIT
	SCC - FIRE ALARM STROBE SYNC CIRCUIT
	24V - 24VDC POWER CIRCUIT
X	X DENOTES FACP, POWER SUPPLY OR AMPLIFIER NODE #
Y	Y DENOTES CIRCUIT #

FIRE ALARM RISER GENERAL NOTES:

1. THE INSTALLED FIRE ALARM SYSTEM SHALL MEET THE "SURVIVABILITY" REQUIREMENTS OF NFPA 72. ALL COMMUNICATION AUDIBLE AND VISUAL CIRCUITS SHALL BE INSTALLED SUCH THAT ATTACK BY FIRE WITHIN AN EVACUATION SIGNALING ZONE SHALL NOT IMPAIR THE CONTROL AND OPERATION OF THE NOTIFICATION APPLIANCES OUTSIDE THE EVACUATION SIGNALING ZONE. ALL CIRCUITS NECESSARY FOR THE OPERATION OF THE NOTIFICATION APPLIANCES SHALL BE PROTECTED UNTIL THEY ENTER THE EVACUATION SIGNALING ZONE THAT THEY SERVE. ANY OF THE FOLLOWING METHODS SHALL BE CONSIDERED ACCEPTABLE MEANS AS MEETING THESE REQUIREMENTS:
 - A. 2-HOUR RATED CABLE OR CABLE SYSTEM
 - B. A 2-HOUR RATED ENCLOSURE

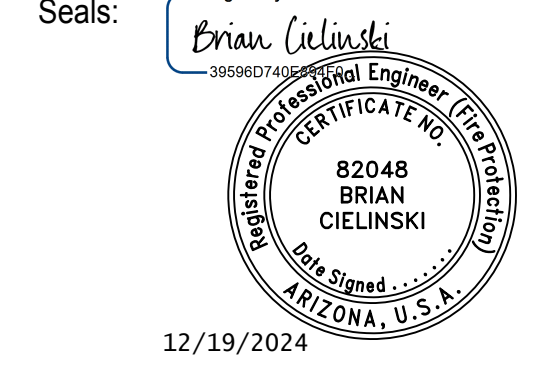


Project Title:
Fidelity INVESTMENTS
Fidelity Real Estate Company
245 Summer Street
Boston, MA 20110

7171 E. Paradise Lane
Suite R-120
Scottsdale, AZ 85254

Number	Description	Date
1	Issued for Permit & Construction	23 DEC 24

Key Plan:



SYMBOLS table with 10 rows of fire alarm and signaling symbols like Visual Flashing Beacon, Audible Alarm Bell, Manual Pull Station, etc.

ABBREVIATIONS table with 10 rows of addressable interface modules like CAD, KMS, LPS, RCA, RSL, TS, TSC, WF.

FIRE PROTECTION - DRAWING LIST table with 5 rows of sheet numbers and names like FP-001, FP-002, FP-003, FP-201, FP-501.

SYMBOLS table with 15 rows of single-line symbols for valves and pipe accessories like Check Valve, Flow Meter, Indicating Isolation Valve, etc.

SYMBOLS table with 5 rows of single-line symbols for riser and alarm check valves like Wet-pipe Riser Check Valve, Wet-pipe Alarm Check Valve, etc.

SYMBOLS table with 2 rows of single-line symbols for backflow preventers like Backflow Preventer - Double Check Valve Assembly, Backflow Preventer - Reduced Pressure Zone Assembly.

SYMBOLS table with 5 rows of single-line symbols for fire hose valves like Fire Hose Valve, Fire Hose Valve - Pressure Regulating Type, Fire Hose Valve and Hose Reel, Fire Hose Valve Cabinet, Fire Hose Valve / Hose Reel Cabinet.

SYMBOLS table with 3 rows of single-line symbols for connections like Fire Department Inlet Connection, Fire Department Outlet Hydrant Connection, Fire Pump Test Header Connection.

NOTE - NOT ALL SYMBOLS USED FOR THIS PROJECT

SYMBOLS table with 25 rows of sprinklers and nozzles like Pendent Frame Standard Spray Pattern Sprinkler, Upright Frame Standard Spray Pattern Sprinkler, ESFR, etc.

EXISTING EQUIPMENT* table with 5 rows of symbols for existing equipment and piping like Dashed Line-Type, Existing Div. 21 Equipment and Piping, etc.

GENERAL ANNOTATION table with 10 rows of symbols for section numbers, drawing numbers, elevation numbers, detail/part-plan numbers, riser designations, beam penetrations, etc.

NOTE - NOT ALL SYMBOLS USED FOR THIS PROJECT

FIRE PROTECTION ABBREVIATIONS (GENERAL) table with 40 rows of abbreviations like ACT, AFF, AFU, ARCH, BLDG, BOP, BOR, CL, CML, CONT, DN, DWG, ELEV, EX, FT, GALV, GPM, GWS, HAZMAT, INT, INV, LPM, M, MAX, MECH, MIN, MISC, MM, NA, NAS, NG, NHS, NIC, NO, NRTL, NTS, OED, QTY, SQFT, SCM, TEMP, TOR, TYP, WI.

FIRE PROTECTION ABBREVIATIONS (SYSTEM DESIGNATIONS) table with 15 rows of abbreviations like CA, DFM, DSP, DST, FDC, FSP, FWS, LCO2, LCO2, PFP, SD, WBFS, WCST, WFM, WMST, WSP, WST.

FIRE PROTECTION ABBREVIATIONS (EQUIPMENT & MATERIALS) table with 25 rows of abbreviations like ADV, ATS, BFP, BV, DAV, DVCA, DDCDA, DRA, FHV, FHVC, FIZC, FPU, FPU, FRA, FS, LPS, NRS, OSY, PIV, PIV, PMP, PMP, PRA, PRAC, PRV, PS, RPZA, SDR, TH, TS, VFD, WAW, WRA, ZCA, ZCAC.

NOTE - NOT ALL ABBREVIATIONS USED FOR THIS PROJECT



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Table with 3 columns: Number, Description, Date. Row 1: 1, Issued for Permit & Construction, 23 DEC 24.

Key Plan:

SPRINKLER SCHEDULE

HEAD DESIGNATION	DESCRIPTION	K-FACTOR	ORIFICE SIZE	RESPONSE	TEMP	COVERAGE	FINISH	ESCUICHEON	NOTE
●	CONCEALED PENDENT SPRINKLER	5.6	1/2"	QUICK	155	STANDARD	WHITE POLY	FLAT PLATE	
○	UPRIGHT SPRINKLER	5.6	1/2"	QUICK	155	STANDARD	BRONZE	N/A	

SPRINKLER SYSTEM DESIGN CRITERIA - FM GLOBAL DS 3-26

HAZARD CATEGORY	AREA DESCRIPTION	CEILING HEIGHT (FT)	MINIMUM K-FACTOR	DESIGN DENSITY (GPM/SQFT)	CALCULATION AREA (SQFT)	HOSE STREAM (GPM)
HC-1	OFFICE SPACE	< 30	5.6	0.10	1500	250
HC-1	MEETING ROOM, CONFERENCE ROOM	< 30	5.6	0.10	1500	250
HC-2	MECHANICAL ROOM, ELECTRICAL ROOM, TEL/DATA	< 30	5.6	0.20	2500	250

MODIFICATIONS TO EXISTING SYSTEMS

- PREPARE IN NARRATIVE AND DRAWING FORMAT AS DIRECTED BY THE AUTHORITY OF HAVING JURISDICTION A FORMAL IMPAIRMENT PLAN.
- COORDINATE IMPAIRMENT PLAN WITH GENERAL CONTRACTOR FOR INCORPORATION INTO THE NFPA 241 FIRE SAFETY PROGRAM PREPARED BY THE GENERAL CONTRACTOR.
- IMPAIRMENT PLAN SHALL IDENTIFY THE BUILDING OCCUPANCY (OR VACANCY DURING CONSTRUCTION AND NATURE OF THE SYSTEM IMPAIRMENT.
- IMPAIRMENT PLAN SHALL IDENTIFY MAXIMUM IMPAIRMENT DURATION PERMITTED BY THE AUTHORITY HAVING JURISDICTION BEFORE ALTERNATE PROTECTION OR FIRE WATCHES ARE NECESSARY.
- IMPAIRMENT PLAN SHALL IDENTIFY THE DURATION AND TIMING OF FIRE SUPPRESSION SYSTEM SHUTDOWNS AND RESULTANT REQUIREMENT FOR TEMPORARY LINEAR HEAT DETECTION, IF ANY.
- IMPAIRMENT PLAN SHALL IDENTIFY THE NEED FOR FIRE WATCHES, IF ANY.
- IMPAIRMENT PLAN SHALL IDENTIFY THE NECESSARY PROVISIONS FOR TEMPORARY PIPING CONNECTIONS TO EXISTING FIRE SUPPRESSION SYSTEMS TO REMAIN IN SERVICE.
- IMPAIRMENT PLAN SHALL IDENTIFY ADDITIONAL PROTECTION FEATURES AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
- SPRINKLERS OUTSIDE OF RENOVATION WORK AREA. SPRINKLERS PROTECTING AREAS ADJACENT TO THE RENOVATION WORK AREA MUST REMAIN IN SERVICE THROUGHOUT THE DURATION OF CONSTRUCTION. PROVIDE TEMPORARY PIPING CONNECTIONS AS NECESSARY TO MAINTAIN SERVICE UNTIL NEW PIPING SYSTEMS ARE COMPLETED.
- SPRINKLERS WITHIN RENOVATION WORK AREA. MAINTAIN SPRINKLER PROTECTION WITHIN THE RENOVATION WORK AREA TO THE GREATEST EXTENT PRACTICABLE. FOR SPRINKLERS SYSTEMS REQUIRING DRAIN-DOWN, REFILL SPRINKLER PIPING AT END OF EACH WORK SHIFT, OR WHERE REFILL IS NOT PRACTICABLE PROVIDE ALTERNATE PROTECTION OR FIRE WATCHES AS DIRECTED BY THE AUTHORITY HAVING JURISDICTION.
- PROTECTION. PROTECT EXISTING FIRE SUPPRESSION EQUIPMENT FROM DUST, DEBRIS, PAINT, SPRAY-ON FIRE-PROOFING, AND SIMILAR THROUGHOUT THE DURATION OF CONSTRUCTION. REPLACE WITH NEW EXISTING SPRINKLERS THAT BECOME DAMAGED, PAINTED, SPRAYED OR SIMILAR.
- RENOVATION WORK AREA ON MULTIPLE FLOORS. NO TWO ADJACENT FLOOR SPRINKLER SYSTEMS SHALL BE IMPAIRED SIMULTANEOUSLY.
- FIRE DEPARTMENT CONNECTIONS. ALL BUILDING FIRE DEPARTMENT CONNECTIONS MUST REMAIN IN SERVICE THROUGHOUT THE DURATION OF CONSTRUCTION. PROVIDE TEMPORARY PIPING CONNECTIONS AS NECESSARY TO MAINTAIN SERVICE UNTIL NEW PIPING SYSTEMS ARE COMPLETED.
- WET STANDPIPES. AT LEAST ONE BUILDING WET-PIPE STANDPIPE MUST REMAIN IN SERVICE THROUGHOUT THE DURATION OF CONSTRUCTION. ALL BUILDING WET-PIPE STANDPIPES MUST REMAIN IN SERVICE DURING NORMAL BUSINESS HOURS.
- EXISTING IDENTIFICATION. REPLACE EXISTING FIRE SUPPRESSION SIGNAGE, GRAPHICS, FRAMED MAPS, AND SIMILAR WITH NEW AS REQUIRED TO REFLECT FIRE SUPPRESSION SYSTEM MODIFICATIONS.
- EXISTING DOCUMENTATION. AMEND EXISTING PROPERTY RECORDS WITH SUPPLEMENTAL FIRE SUPPRESSION RECORD DOCUMENTATION INCLUDING DRAWINGS AND TEST REPORTS FOR THE ALTERATION WORK PERFORMED.

DOCUMENT SUBMITTAL PROCESS

- THE DESIGN CONTENT OF THESE DRAWINGS IS INTENDED TO SATISFY THE STATE BUILDING CODE REQUIREMENTS FOR CONSTRUCTION DOCUMENTS. WHEN STAMPED AND SEALED BY THE ENGINEER OF RECORD THEY ARE REQUIRED TO BE USED AS PART OF THE BUILDING PERMIT APPLICATION ONLY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING A COMPLETE SHOP DRAWING SUBMITTAL INCLUSIVE OF ALL INFORMATION REQUIRED BY THE STATE BUILDING CODE AND THE CONSTRUCTION DOCUMENTS. SHOP DRAWINGS REVIEWED BY THE ENGINEER OF RECORD SHALL BE USED FOR SUPPLEMENTAL FIRE PROTECTION SYSTEM INSTALLATION PERMITS OR SUBMITTALS WHERE SUCH PERMITS OR SUBMITTALS ARE REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING A COMPLETE RECORD DRAWING SUBMITTAL INCLUSIVE OF ALL FIELD CHANGES AND ALL INFORMATION REQUIRED BY THE STATE BUILDING CODE AND THE CONSTRUCTION DOCUMENTS.
- SHOP DRAWINGS AND RECORD DRAWING SUBMITTALS SHALL BE PREPARED BY THE CONTRACTOR'S QUALIFIED ENGINEERING TECHNICIAN AND SHALL INDICATE THE TECHNICIAN'S NICET CERTIFICATION NUMBER OR PROFESSIONAL ENGINEERING SEAL & SIGNATURE AS REQUIRED BY THE CONSTRUCTION DOCUMENTS.
- THE ENGINEER OF RECORD SHALL NOT SIGN AND SEAL SHOP DRAWING OR RECORD DRAWING SUBMITTALS PREPARED BY THE CONTRACTOR WHERE THE AUTHORITY HAVING JURISDICTION REQUIRES SHOP DRAWING OR RECORD DRAWING SUBMITTALS TO BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER, THE SUBMITTALS SHALL BE PREPARED BY A QUALIFIED PROFESSIONAL ENGINEER RETAINED BY THE CONTRACTOR.

INSPECTION AND TESTING

- PREPARE A TYPEWRITTEN COMPUTER-OUTPUT TEST PLAN THAT CLEARLY ESTABLISHES THE SCOPE OF FIRE SUPPRESSION SYSTEM TESTING. INCLUDE AT A MINIMUM TESTING METHODS, PERSONNEL, DURATION, PLANNED IMPAIRMENTS, AND REQUIRED COORDINATION FOR INTEGRATED TESTING OF EMERGENCY CONTROL FUNCTION INTERFACES. COORDINATE NFPA 3 "RECOMMENDED PRACTICE FOR COMMISSIONING OF FIRE PROTECTION AND LIFE SAFETY SYSTEMS" AND NFPA 4 "STANDARD FOR INTEGRATED FIRE PROTECTION AND LIFE SAFETY SYSTEM TESTING" REQUIREMENTS WITH THE FIRE AND LIFE SAFETY COMMISSION AGENT (FCA) WHERE AN FCA IS CONTRACTED BY THE OWNER.
- FUNCTIONAL FIELD TESTS SHALL BE WITNESSED BY THE CONSTRUCTION MANAGER (CM), THEIR DESIGNEES, AND WHEN CONTRACTED BY THE OWNER THE FIRE AND LIFE SAFETY COMMISSION AGENT (FCA); PROVIDE NOTIFICATIONS A MINIMUM OF TWO (2) WEEKS IN ADVANCE.
- ACCEPTANCE FIELD TESTING SHALL BE WITNESSED BY THE CM, THEIR DESIGNEES, AND AUTHORITIES HAVING JURISDICTION (AHJ); PROVIDE NOTIFICATIONS A MINIMUM OF TWO (2) WEEKS IN ADVANCE.
- FLUSH TEST. INSPECT SYSTEM PIPING IN ACCORDANCE WITH THE APPLICABLE NFPA WATER-BASED FIRE SUPPRESSION SYSTEM DESIGN AND INSTALLATION STANDARDS.
- HYDROSTATICALLY TEST SYSTEM PIPING IN ACCORDANCE WITH THE APPLICABLE NFPA WATER-BASED FIRE SUPPRESSION SYSTEM DESIGN AND INSTALLATION STANDARDS. REPAIR LEAKS AND RETEST UNTIL NO LEAKS EXIST.
- INSPECT AND ADJUST ALARM AND DELAY SETTINGS OF ALARM DEVICES.
- INSPECT AND ADJUST ALARM VALVE TRIM SETTINGS.
- INSPECT AND ADJUST AIR / NITROGEN SUPPLY AND DELIVERY SYSTEM SETTINGS.
- INSPECT AND ADJUST PRESSURE RELIEF VALVES SUCH THAT NO WATER IS DISCHARGED UNDER NORMAL SYSTEM WORKING CONDITIONS.
- INSPECT AND ADJUST PRESSURE REGULATING VALVES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- VERIFY THAT EQUIPMENT HOSE THREADS ARE SAME AS LOCAL.
- PROVIDE WRITTEN NOTIFICATIONS FOR FUNCTIONAL FIELD TESTS; INCLUDE TEST PLAN.
- FUNCTIONALLY TEST WATER-BASED FIRE SUPPRESSION SYSTEMS, INCLUDING REQUIRED FULL-FLOW TESTS, IN ACCORDANCE WITH THE APPLICABLE NFPA WATER-BASED FIRE SUPPRESSION SYSTEM DESIGN AND INSTALLATION STANDARDS. COMBINE TESTS TO CONSERVE WATER. CORRECT DEFICIENCIES AND RETEST SATISFACTORY RESULTS ARE ACHIEVED.
- REPEAT FUNCTIONAL TESTING AS REQUIRED BY THE FIRE AND LIFE SAFETY COMMISSION AGENT (FCA) WHERE AN FCA IS CONTRACTED BY THE OWNER.
- PREPARE TEST AND INSPECTION REPORTS, USE NFPA "CONTRACTORS MATERIAL AND TEST CERTIFICATE" FORMAT.
- PLACE SYSTEM INTO NORMAL OPERATING SERVICE WITHOUT SYSTEM IMPAIRMENTS OR OUTSTANDING WORK.

GENERAL REQUIREMENTS

- PURPOSE OF ENGINEERING DRAWINGS. THE DRAWINGS ARE DIAGRAMMATIC. THEY ARE NOT INTENDED TO BE ABSOLUTELY PRECISE. THEY ARE NOT INTENDED TO SPECIFY OR TO SHOW EVERY REQUIRED COMPONENT OF THE SYSTEMS DESCRIBED. THE PURPOSE OF THE DRAWINGS IS TO INDICATE A SYSTEM CONCEPT. THE MAIN COMPONENTS OF THE SYSTEMS, AND THEIR APPROXIMATE GEOMETRIC RELATIONSHIPS BASED UPON THE SYSTEMS CONCEPT, THE MAIN COMPONENTS, AND THEIR APPROXIMATE GEOMETRIC RELATIONSHIPS, PROVIDE ALL OTHER COMPONENTS AND MATERIALS NECESSARY TO MAKE THE SYSTEMS FULLY COMPLETE AND OPERATIONAL.
- MINIMUM PERFORMANCE REQUIREMENTS. INTERPRET DRAWING AND SPECIFICATION REQUIREMENTS THAT ARE MORE STRINGENT THAN FEDERAL, STATE, & MUNICIPAL CODE-MINIMUM AS DELIBERATELY CONSIDERED PERFORMANCE CRITERIA THAT ARE A MANDATORY PART OF THE WORK. WHERE DRAWINGS AND SPECIFICATIONS ARE SILENT ON A CODE REGULATED CONDITION, COMPLY WITH FEDERAL, STATE, & MUNICIPAL CODE-MINIMUM. COMPLY WITH NFPA STANDARD EDITIONS REFERENCED BY APPLICABLE FEDERAL, STATE, & MUNICIPAL CODES.
- DESIGN STANDARDS. COMPLY WITH NFPA 13.
- APPROVALS. PRODUCTS SHALL BE UL LISTED AND FM APPROVED FOR FIRE PROTECTION DUTY AND THE INTENDED SERVICE APPLICATION.
- ALL WORK IS NEW, UNLESS SPECIFICALLY NOTED AS EXISTING. ALL COMPONENTS INDICATED BY THE DRAWINGS ARE NEW.
- RELATED DOCUMENTS. THE NECESSARY UNDERSTANDING OF THE PROJECT SCOPE AND FIRE SUPPRESSION WORK CANNOT BE OBTAINED WITHOUT REVIEW OF ALL PROJECT DOCUMENTS. REVIEW COMPLETE PACKAGE OF PROJECT DRAWINGS, SPECIFICATIONS, AND NARRATIVES TO FULLY UNDERSTAND THE PROJECT SCOPE AND TO COORDINATE THE FIRE SUPPRESSION WORK WITH OTHER DIVISIONS.
- GENERAL INSTALLATION. INSTALL SYSTEM IN A WORKMANLIKE FASHION AND IN A RECTILINEAR ARRANGEMENT WITH PIPING AND SYSTEM COMPONENTS PERPENDICULAR AND PARALLEL WITH BUILDING ARCHITECTURAL AND STRUCTURAL ELEMENTS. PIPING SHALL BE CONCEALED ABOVE CEILING FINISHES. EXPOSED PIPING SHALL BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION AND SHALL MAINTAIN NECESSARY CLEARANCES.
- FIRE DEPARTMENT OPERATIONS. INSTALL FIRE HOSE VALVES, INLET CONNECTIONS, OUTLET CONNECTIONS, ISOLATION VALVES, PUMP CONTROLLERS, SIGNAGE AND OTHER COMPONENTS REQUIRING FIRE FIGHTER PERSONNEL INTERFACE DURING EMERGENCY OPERATIONS IN READY IDENTIFIABLE LOCATIONS, WITH ADEQUATE OPERATIONAL CLEARANCES, AND IN ACCORDANCE WITH RESPONDING FIRE DEPARTMENT STANDARD EMERGENCY OPERATIONAL PROCEDURES.
- ALIGNMENT. SPRINKLERS INSTALLED IN FINISHED CEILINGS SHALL BE CENTER OF TILE OR ALIGNED WITH CEILING COMPONENTS WITH NO VISIBLE DEVIATION AND IN ACCORDANCE WITH ARCHITECTURAL REFLECTED CEILING PLANS.
- RETURN BENDS. INSTALL PENDENT SPRINKLERS IN FINISHED CEILINGS WITH RETURN BENDS CONNECTED TO THE TOP OF THE SUPPLYING BRANCH PIPE OR FLEXIBLE SPRINKLER CONNECTION.
- BUSHINGS. USE CONCENTRIC REDUCING FITTINGS FOR PIPE SIZE TRANSITIONS AND SPRINKLER NPT CONNECTIONS. BUSHINGS SHALL NOT BE USED.
- TEMPERATURE RATING. PROVIDE ORDINARY TEMPERATURE RATED SPRINKLERS UNLESS OTHERWISE NOTED. PROVIDE INTERMEDIATE OR HIGH TEMPERATURE RATED SPRINKLERS WHERE REQUIRED BY NFPA 13 BASED UPON PROXIMITY TO HEAT SOURCES OR AMBIENT CEILING TEMPERATURE.
- GUARDS. INSTALL GUARDS ON SPRINKLERS SUSCEPTIBLE TO MECHANICAL DAMAGE INCLUDING, BUT NOT LIMITED TO SPRINKLERS IN MECHANICAL ROOMS AND SPRINKLERS INSTALLED LESS THAN 7 FT AFF.
- DRAINAGE. FIRE-PLAN SYSTEM INSTALLATION WITH OTHER DIVISIONS OF WORK TO MINIMIZE THE NEED FOR AUXILIARY DRAIN VALVES. ARRANGE SYSTEM PIPING TO DRAIN BACK TO MAIN RISER DRAIN VALVE OR ZONE CONTROL ASSEMBLY DRAIN VALVE.
- COORDINATION. MAKE READABLE AND NECESSARY MODIFICATIONS IN LAYOUTS AND COMPONENT ARRANGEMENT NEEDED TO PREVENT CONFLICT WITH AND TO ACCOMMODATE OTHER DIVISIONS OF THE WORK.
- CLEARANCES. INSTALL PIPING, VALVES, AND SYSTEM COMPONENTS TO MAINTAIN MINIMUM CLEARANCES REQUIRED TO OPERATE AND MAINTAIN FIRE SUPPRESSION VALVES AND EQUIPMENT. TO INSTALL, OPERATE AND MAINTAIN EQUIPMENT AND FEATURES OF OTHER DIVISIONS. TO ACCOMMODATE FINISHED CEILING HEIGHTS; AND TO MAINTAIN MAXIMUM HEADROOM IN AREAS OPEN TO STRUCTURE ABOVE.
- PENETRATIONS. USE SPECIFIED SLEEVES, SLEEVE SEALS, AND ESCUTCHEONS AT FIRE PENETRATIONS. AT FIRE RESISTANCE RATED PENETRATIONS, THE PENETRATED FLOOR OR WALL, PENETRATING PIPE, SLEEVE OR SLEEVE SEAL, AND FIRESTOP MATERIAL AS AN ASSEMBLY SHALL COMPLY WITH A DESIGNATED UL THROUGH-PENETRATION FIRESTOP SYSTEM.
- ACCESS TO VALVES. INSTALL VALVES SUCH THAT THEY ARE READILY ACCESSIBLE AND VISIBLE. LOCATE OVERHEAD VALVES SUCH THAT THEY ARE ACCESSIBLE VIA 8 FT (MAX) LADDER AND WITH POSITION INDICATOR CLEARLY VISIBLE FROM THE FLOOR BELOW.
- SUPPORT. ATTACH HANGERS AND SUPPORTS DIRECTLY TO STRUCTURAL BEAMS, COLUMNS AND FLOOR SLABS. DO NOT ATTACH TO METAL DECK ROOF / CEILING FANS. DO NOT ATTACH OR SUPPORT ANY DIVISION 21 WORK FROM NON-STRUCTURAL ELEMENTS OF ANY KIND. THREADED ROD SHALL NOT BE FORMED OR BENT. ALL BOWED, BENT OR OTHERWISE DEFORMED THREADED ROD SHALL BE REPLACED WITH NEW.
- RESTRAINT AGAINST MOVEMENT. INDEPENDENT OF CONSIDERATION OF SEISMIC PROTECTION, FIRE SUPPRESSION FEED MAIN, STANDPIPE, AND SYSTEM RISER PIPING SUPPLIED BY FIRE PUMPS SHALL BE RIGIDLY RESTRAINED AGAINST MOVEMENT RESULTING FROM PUMP-INDUCED WATER PRESSURE AND VELOCITY FORCES.
- IDENTIFICATION. INSTALL VALVE SIGNAGE AND TAGS AT EACH CONTROL VALVE. INSTALL PIPE IDENTIFICATION LABELS. INSTALL HYDRAULIC DATA SIGNS AT EACH SYSTEM RISER. INSTALL SIGNAGE AT FIRE DEPARTMENT CONNECTIONS INDICATING SYSTEMS SERVED AND REQUIRED PRESSURE. INSTALL SUPPLEMENTAL SIGNAGE AS DIRECTED BY THE AUTHORITY HAVING JURISDICTION.
- FIRE PROTECTION DURING CONSTRUCTION. PROVIDE FIRE PROTECTION DURING CONSTRUCTION INCLUDING BUT NOT LIMITED TO MANUAL AND AUTOMATIC DRY-PIPE STANDPIPES AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
- ON-SITE AS-BUILT DOCUMENTATION. MAINTAIN COMPLETE AND SEPARATE SET OF INSTALLATION DRAWINGS ON SITE AT ALL TIMES. RECORD WORK COMPLETED AND ALL MODIFICATIONS CLEARLY AND ACCURATELY.

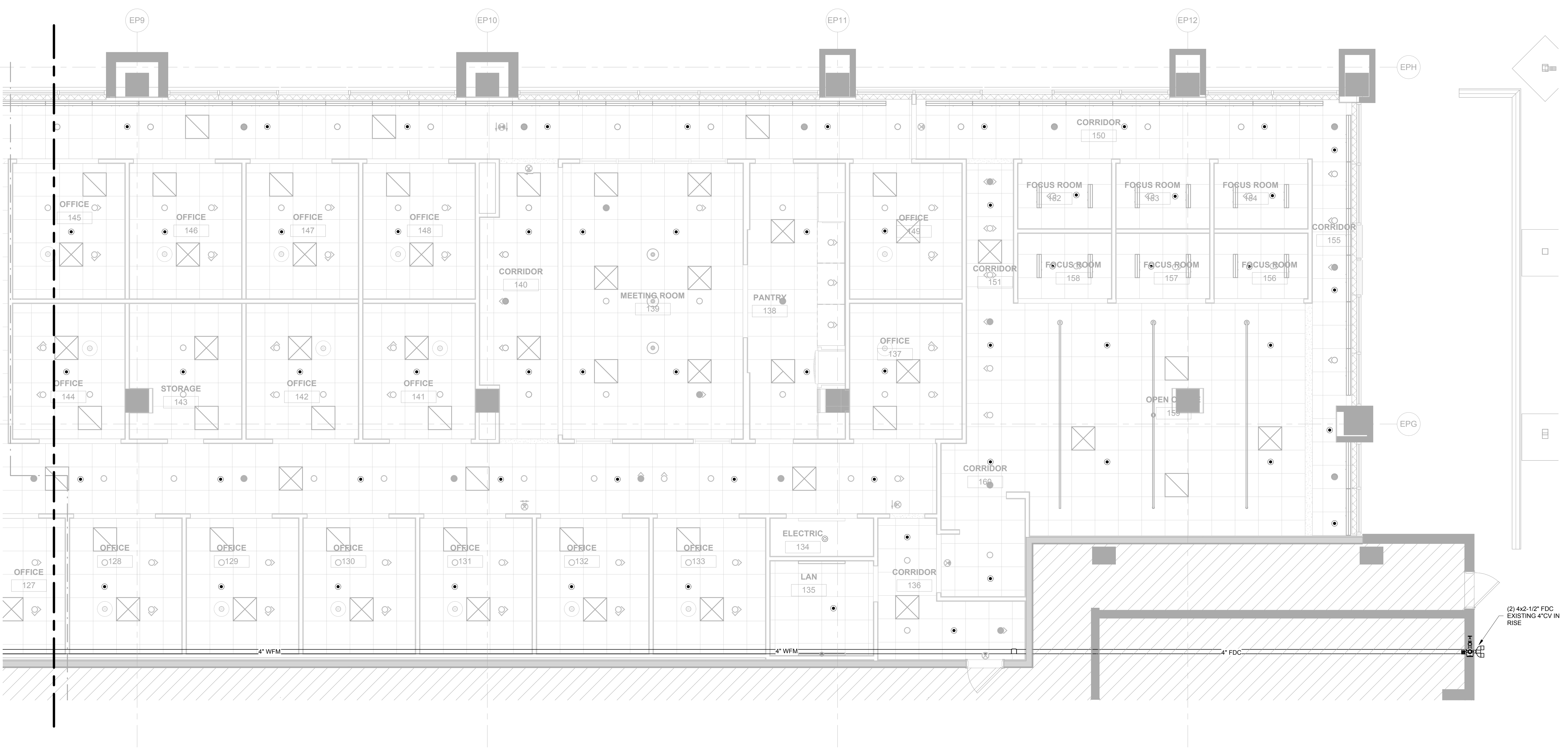


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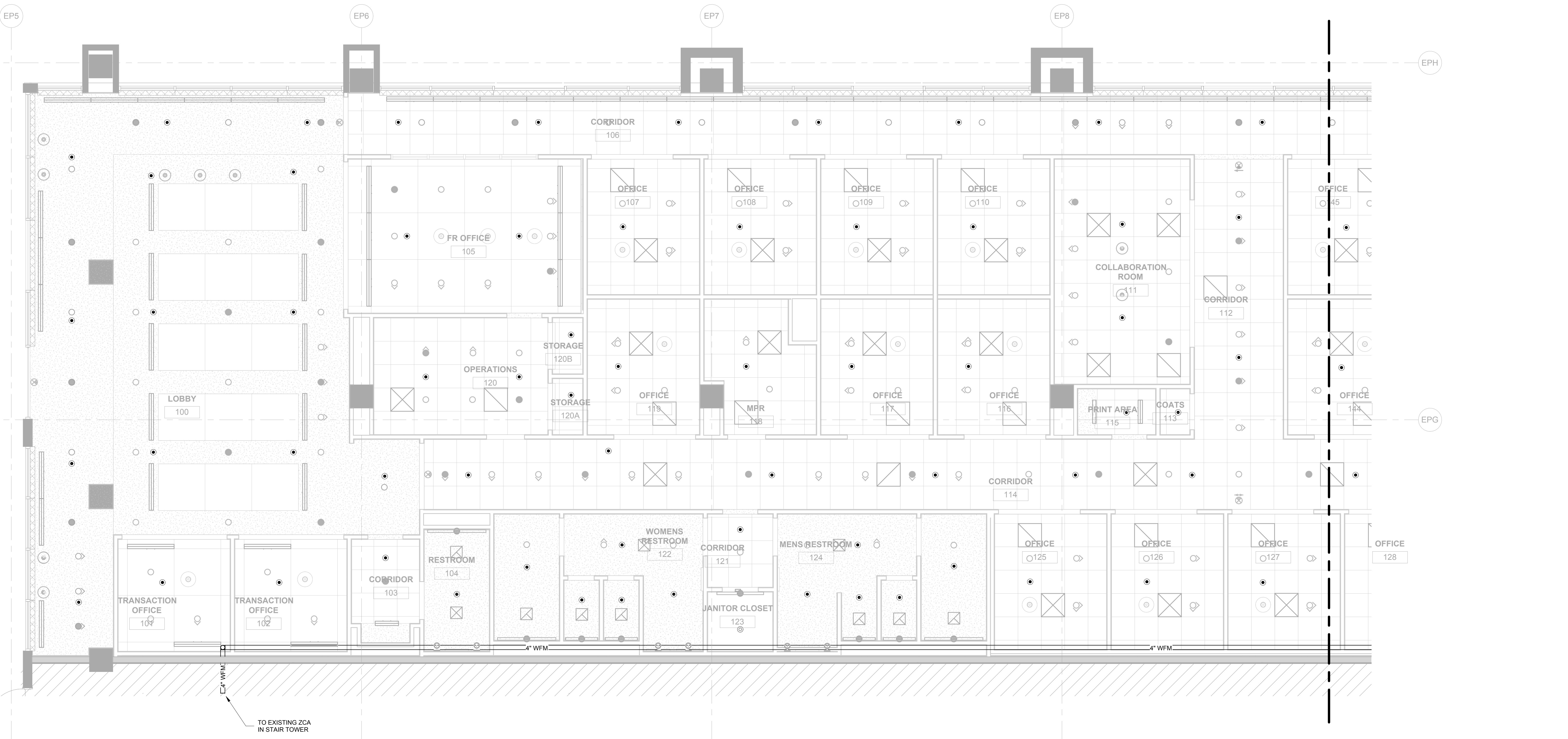


GENERAL NOTES:

- A. PROVIDE SPRINKLER PROTECTION THROUGHOUT IN ACCORDANCE WITH NFPA 13. IN AREAS WHERE FIRE SUPPRESSION OR ARCHITECTURAL DRAWINGS INDICATE SPRINKLER LOCATIONS, COMPLY WITH THE DESIGN INTENT INDICATED BY THE DRAWINGS AND NFPA 13. IN AREAS WHERE FIRE SUPPRESSION OR ARCHITECTURAL DRAWINGS DO NOT INDICATE SPRINKLER LOCATIONS, COMPLY WITH NFPA 13.
- B. REFER TO ARCHITECTURAL & STRUCTURAL SERIES DRAWINGS FOR STRUCTURAL FRAMING PLANS, DETAILED REFLECTED CEILING PLANS, ELEVATIONS, AND SECTIONS.
- C. IN AREAS WITH FINISHED CEILING, LOCATE SPRINKLERS IN THE CENTER OF SUSPENDED CEILING TILES, ALONG THE CENTERLINE OF CEILING FEATURES AND IN-LINE WITH ADJACENT CEILING FIXTURES.
- D. IN AREAS OPEN TO STRUCTURE ABOVE, LOCATE SPRINKLERS WITHIN BEAM POCKETS AND MAINTAIN SPRINKLER CLEARANCE FROM STRUCTURAL MEMBERS IN ACCORDANCE WITH NFPA 13.
- E. LOCATE SPRINKLERS WITH RESPECT TO CEILING AND FLOOR MOUNTED OBSTRUCTIONS SIMILAR TO (BUT NOT LIMITED TO) SHELVING, ROOM DIVIDERS, LIGHT FIXTURES, EXIT SIGNS, SOFFITS AND CHANGES IN CEILING ELEVATION AND MAINTAIN CLEARANCE IN ACCORDANCE WITH NFPA 13.
- F. SHOP DRAWINGS INCLUSIVE OF SPRINKLER AND BRANCH PIPING LAYOUTS AND CORRESPONDING HYDRAULIC CALCULATIONS SHALL BE PREPARED BY THE INSTALLER'S QUALIFIED ENGINEERING TECHNICIAN. SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW AND SHALL BE USED FOR FIRE PROTECTION SYSTEM INSTALLATION PERMITS.
- G. PROVIDE NEW SPRINKLER HEADS WITHIN THE AREA OF SCOPE BASED ON SPRINKLER HEAD LAYOUT AS SHOWN. NEW SPRINKLER HEAD LAYOUTS SHALL BE CONNECTED TO THE EXISTING SPRINKLER MAINS. NEW BRANCHLINES SHALL BE RUN TO NEW SPRINKLER HEAD LOCATIONS.



3 FIRE PROTECTION - LEVEL ONE EAST
1/4" = 1'-0"



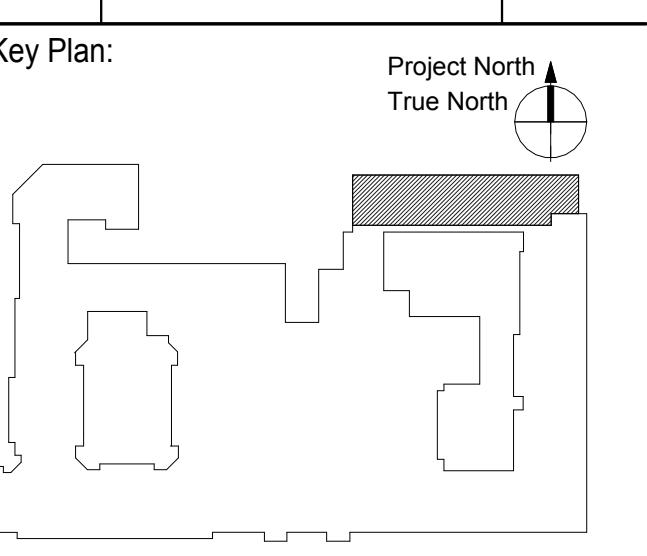
1 FIRE PROTECTION - LEVEL ONE WEST
1/4" = 1'-0"



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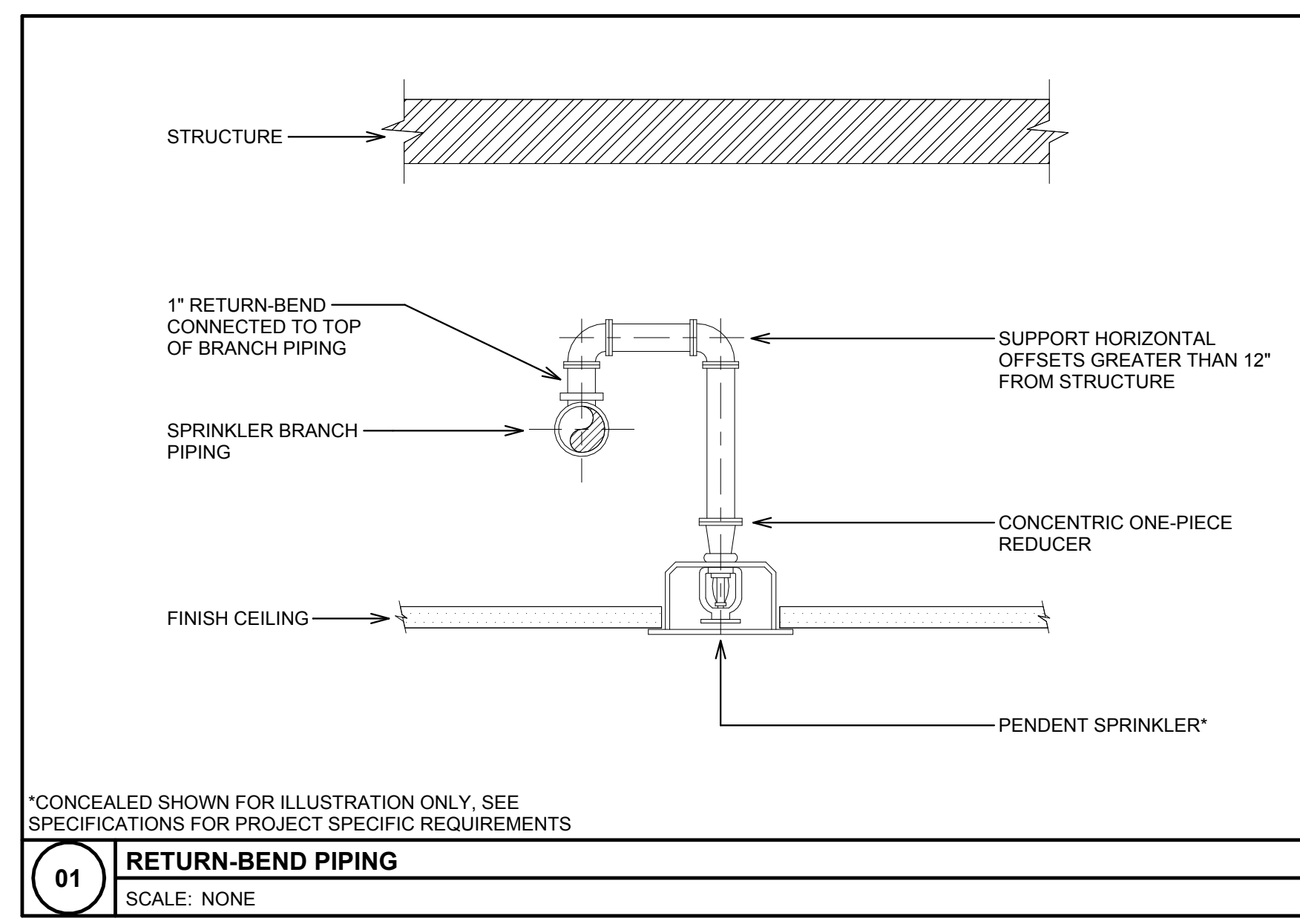
Project No.: C0115.00
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Drawing Sheet Title:
FIRE PROTECTION - LEVEL 1

Drawing Sheet Number:
FP-201

Owner's Branch No.:
134

General Notes:

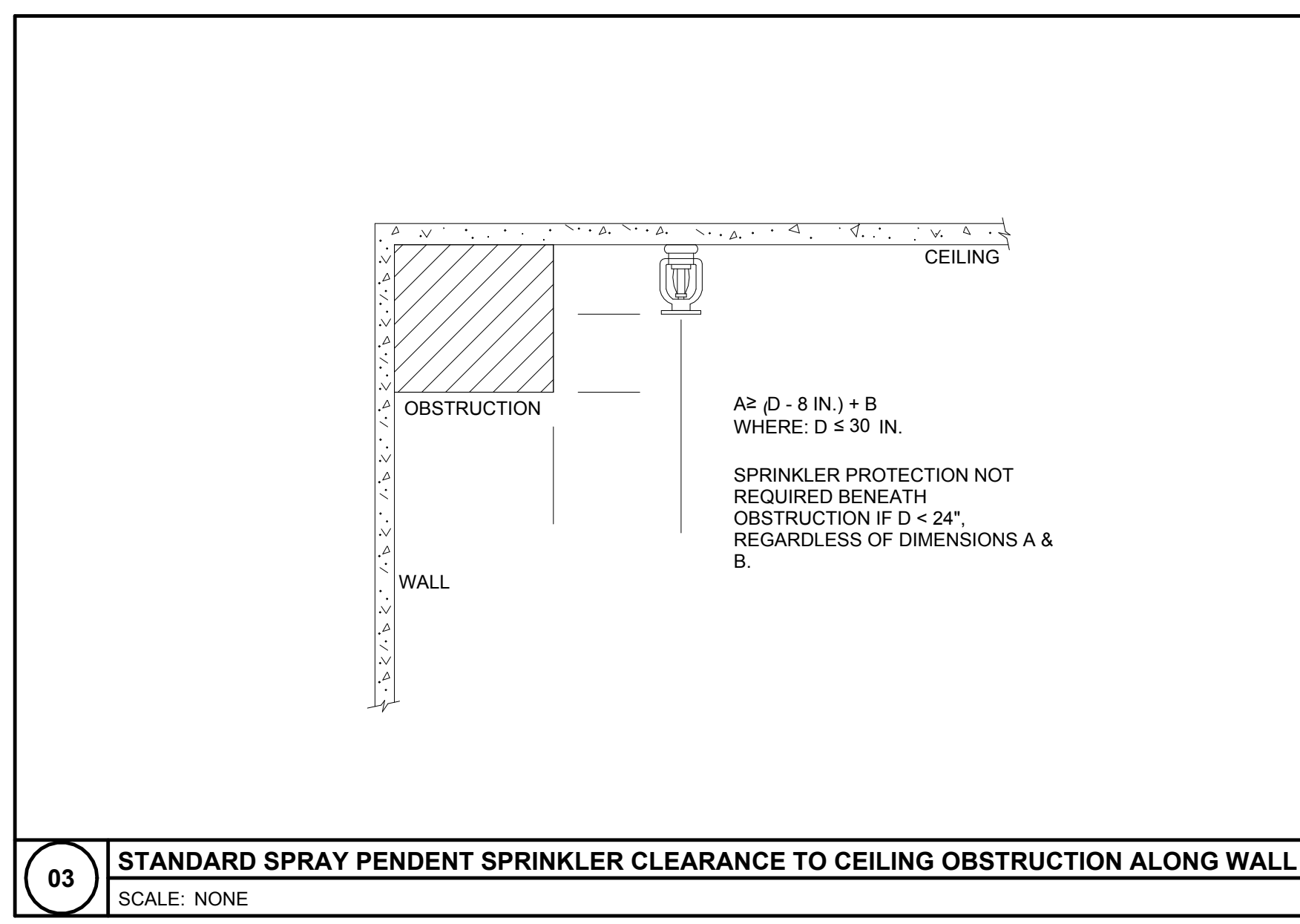


01 RETURN-BEND PIPING
SCALE: NONE

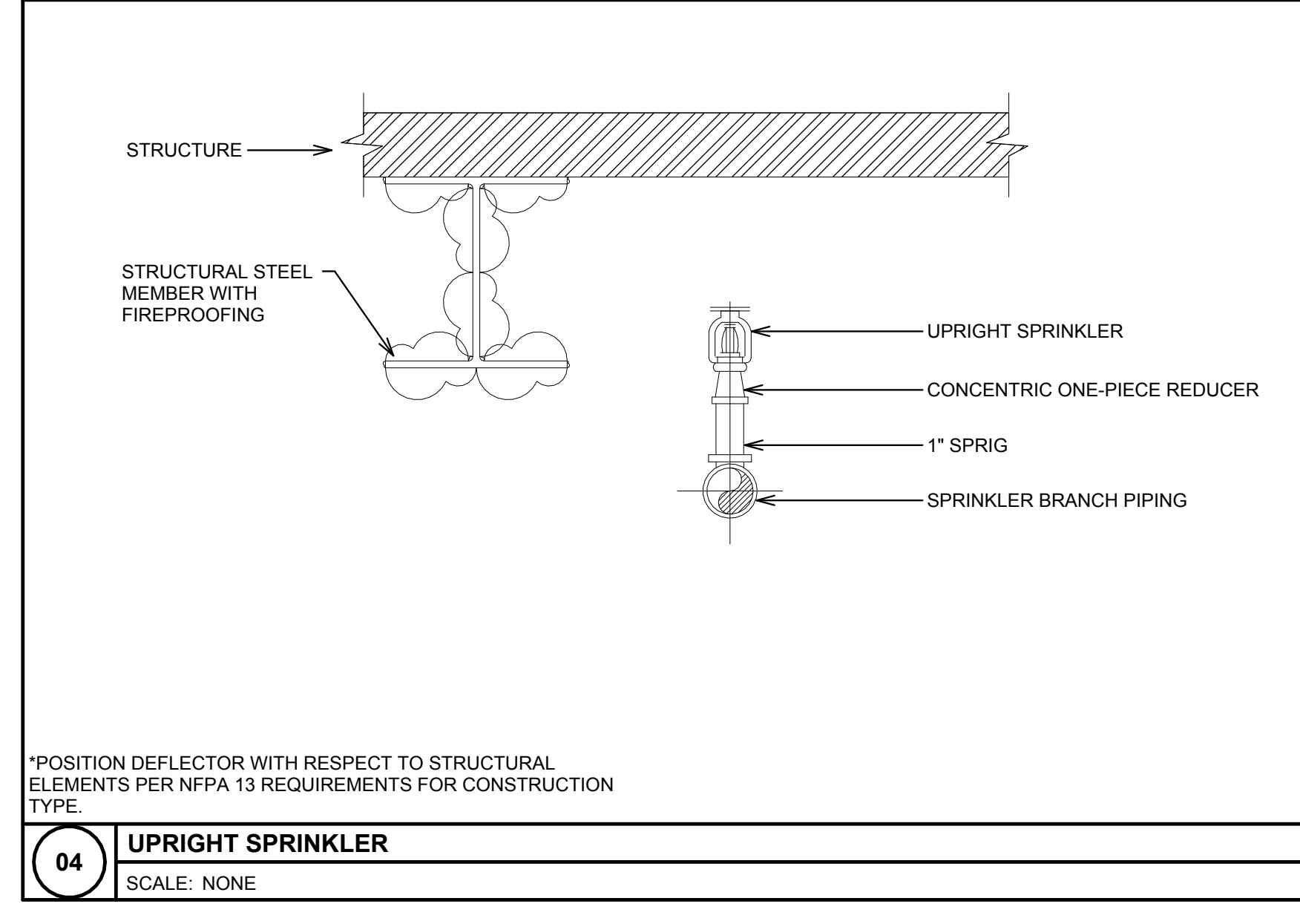
NFPA 13 POSITIONING OF SPRINKLER TO AVOID OBSTRUCTION TO DISCHARGE

DISTANCE FROM SPRINKLERS TO SIDE OF OBSTRUCTION (A)	MAXIMUM ALLOWABLE DISTANCE OF DEFLECTOR ABOVE BOTTOM OF OBSTRUCTION (INCHES) (B)
LESS THAN 1 FT	0
1'-0" TO LESS THAN 1'-4"	0'-2 1/2"
1'-4" TO LESS THAN 2'-0"	0'-3 1/2"
2'-0" TO LESS THAN 2'-6"	0'-5 1/2"
2'-6" TO LESS THAN 3'-0"	0'-7 1/2"
3'-0" TO LESS THAN 3'-6"	0'-9 1/2"
3'-6" TO LESS THAN 4'-0"	1'-0"
4'-0" TO LESS THAN 4'-6"	1'-2"
4'-6" TO LESS THAN 5'-0"	1'-4 1/2"
5'-0" TO LESS THAN 6'-0"	1'-6"
6'-0" TO LESS THAN 6'-6"	1'-8"
6'-6" TO LESS THAN 7'-0"	2'-0"
6'-6" TO LESS THAN 7'-6"	2'-4"
7'-0" TO LESS THAN 7'-6"	2'-11"

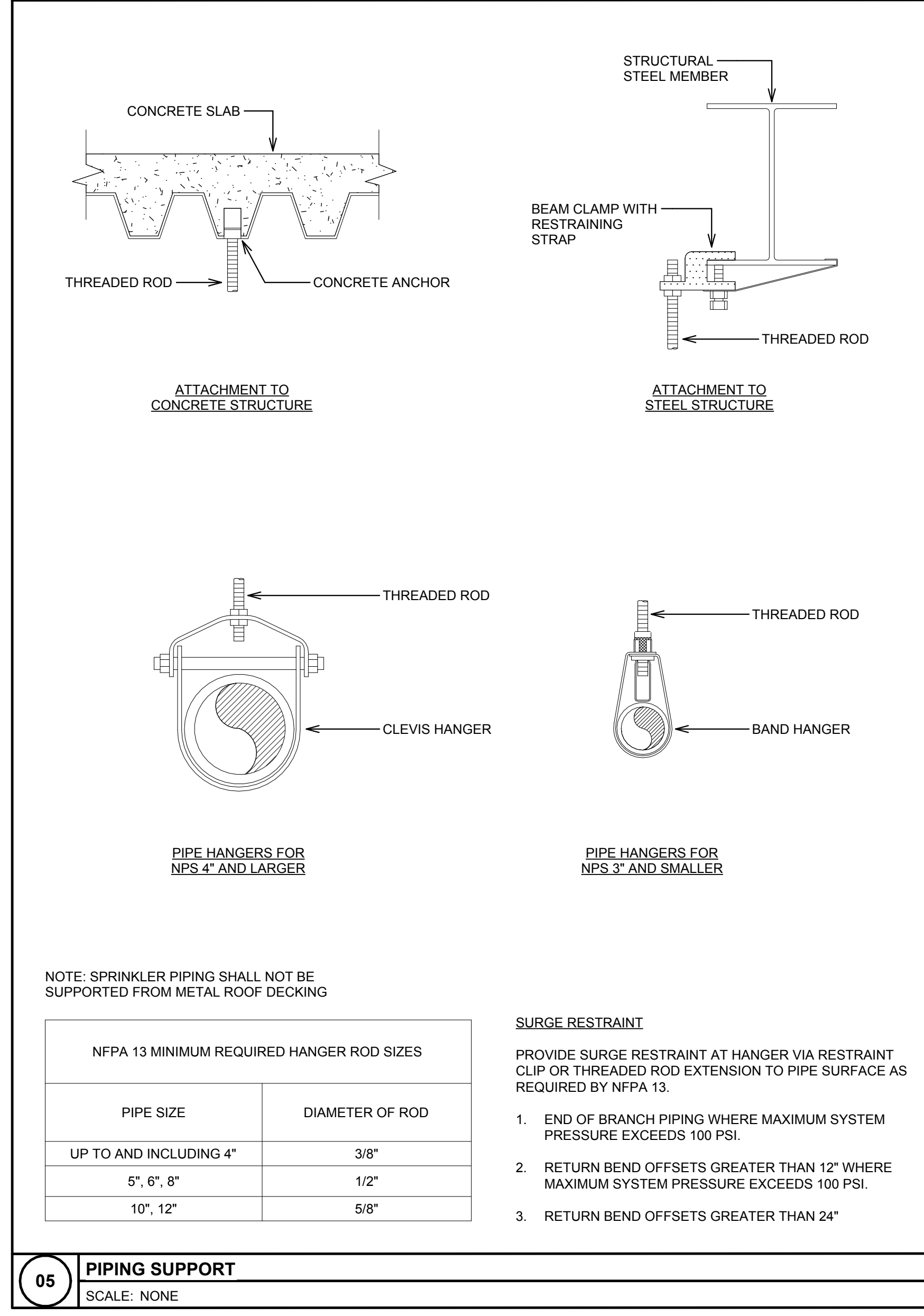
02 STANDARD SPRAY PENDENT SPRINKLER CLEARANCE TO CEILING OBSTRUCTION
SCALE: NONE



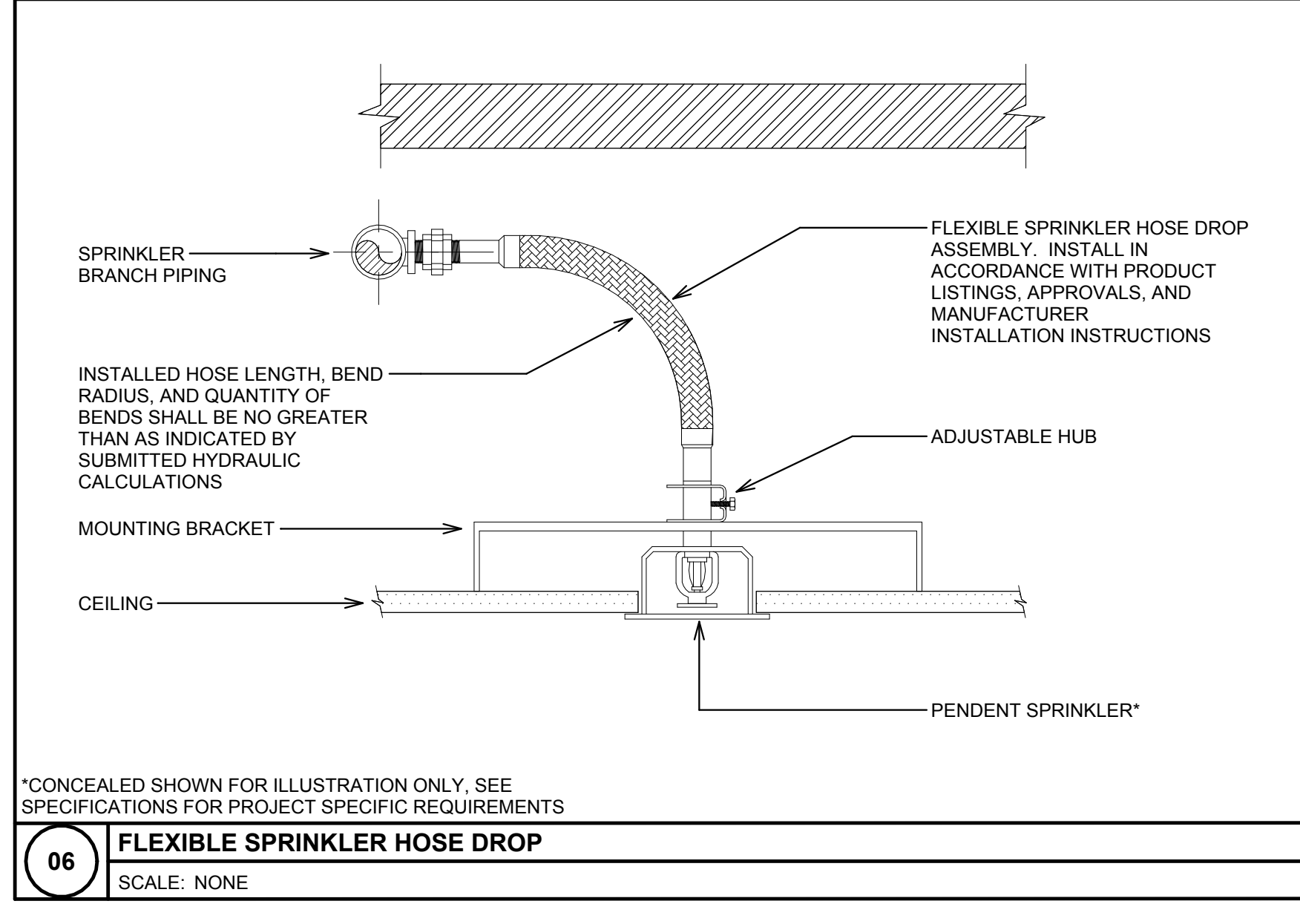
03 STANDARD SPRAY PENDENT SPRINKLER CLEARANCE TO CEILING OBSTRUCTION ALONG WALL
SCALE: NONE



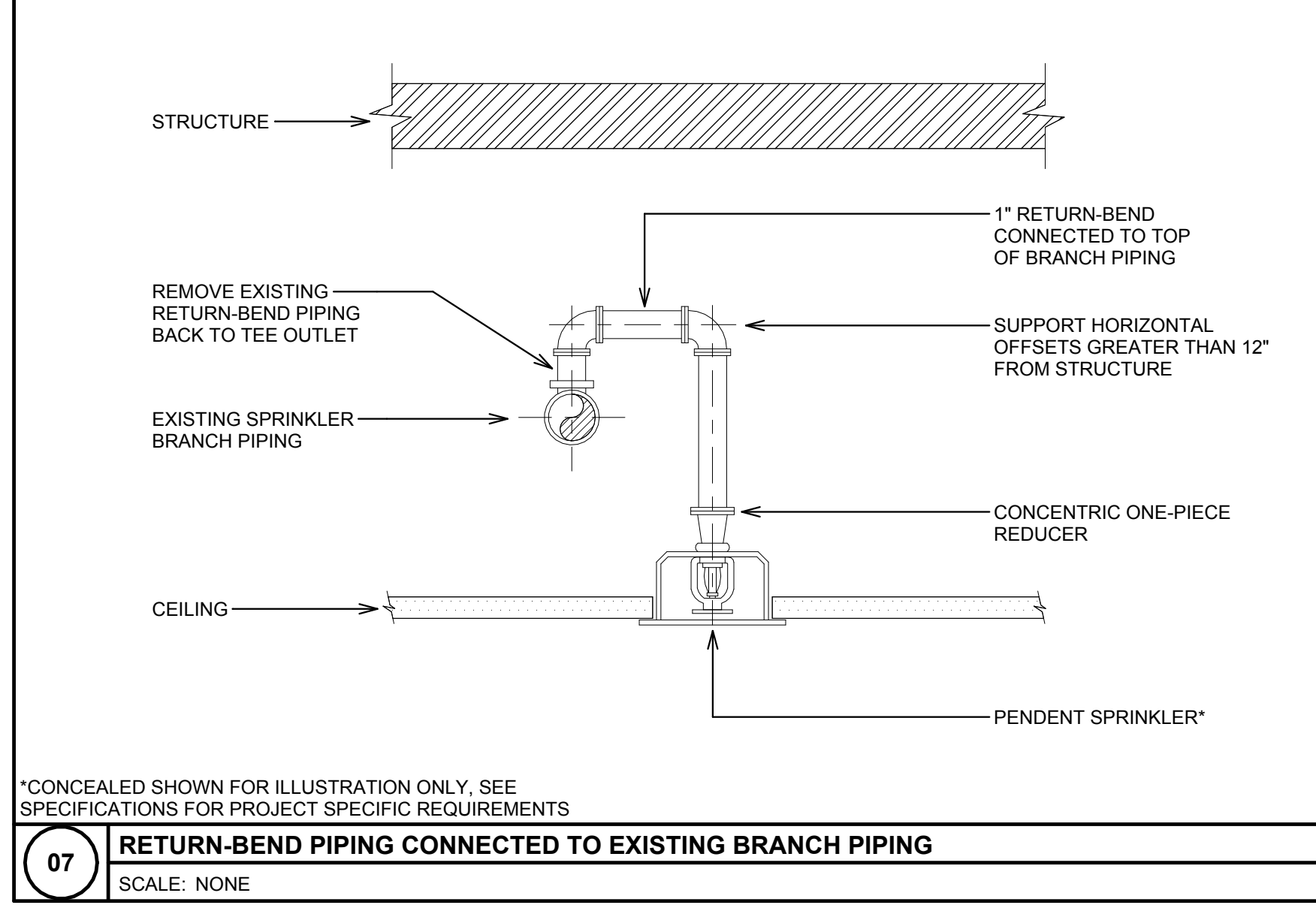
04 UPRIGHT SPRINKLER
SCALE: NONE



05 PIPING SUPPORT
SCALE: NONE



06 FLEXIBLE SPRINKLER HOSE DROP
SCALE: NONE



07 RETURN-BEND PIPING CONNECTED TO EXISTING BRANCH PIPING
SCALE: NONE

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Suite R-120
Scottsdale, AZ 85254

Number	Description	Date
1	Issued for Permit & Construction	23 DEC 24

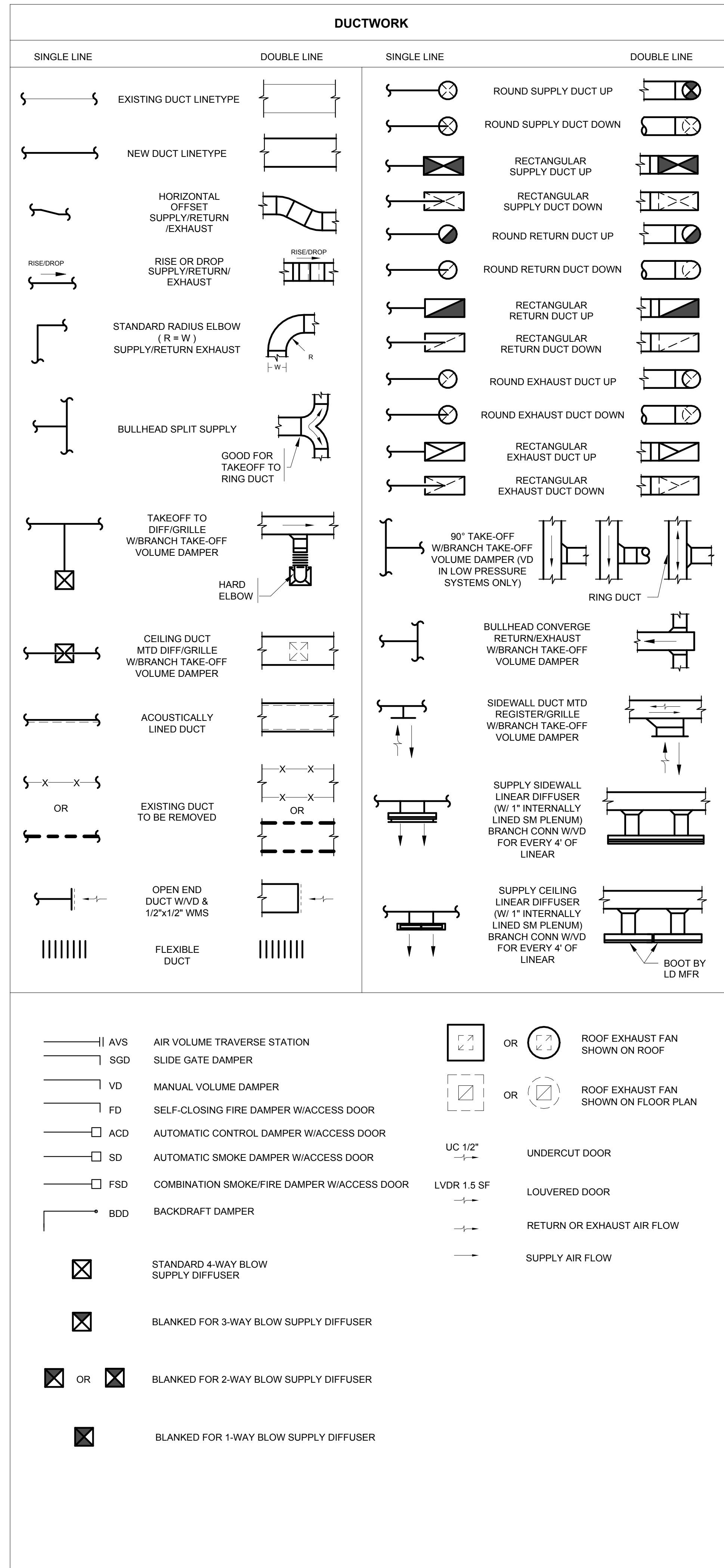
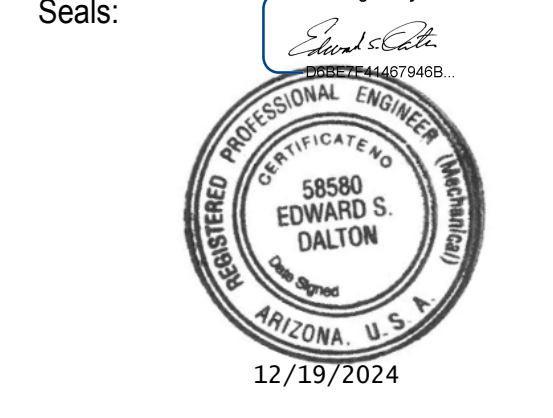
Key Plan:

Project No.: C0115.00
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Drawing Sheet Title:
FIRE PROTECTION - DETAILS

Drawing Sheet Number:
FP-501

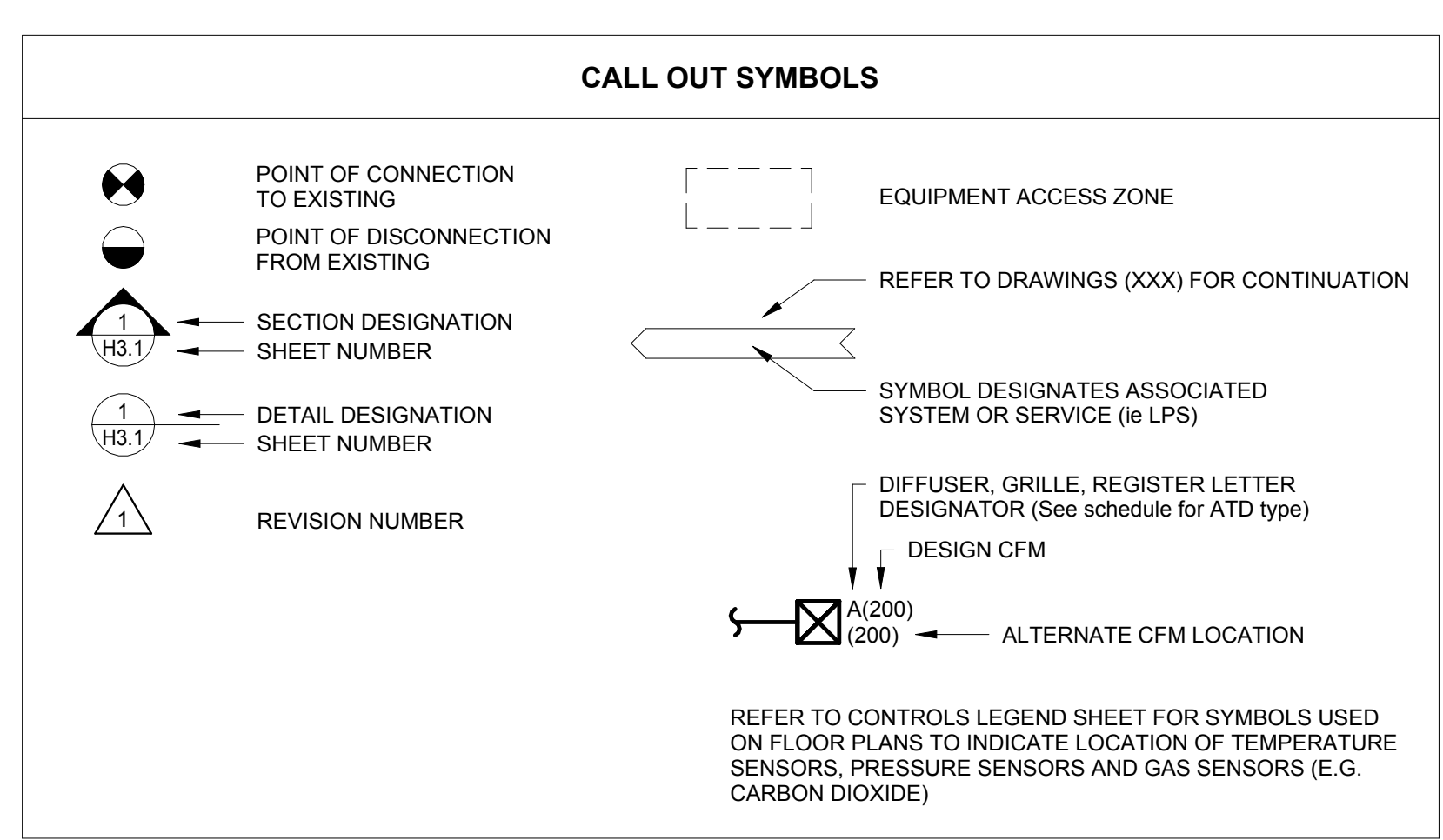
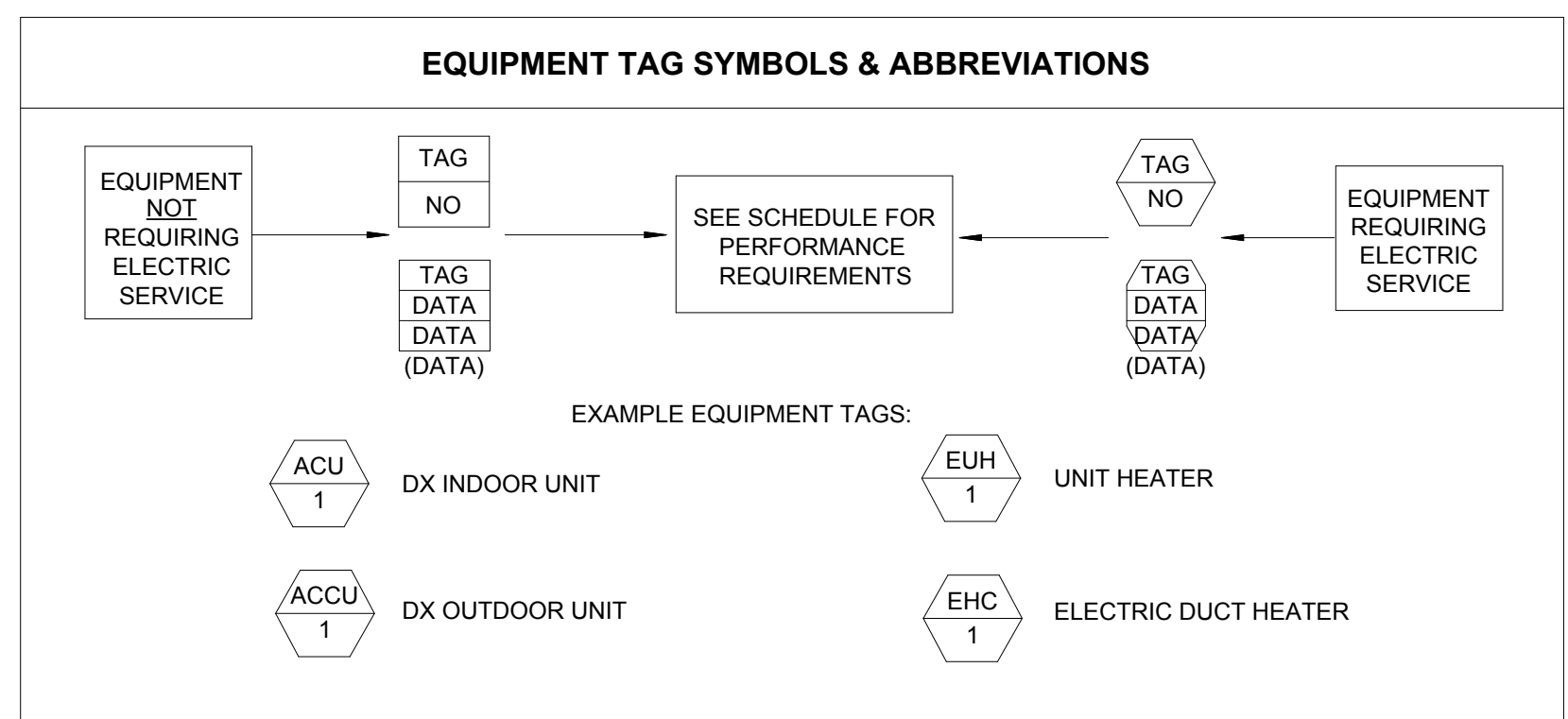
Owner's Branch No.:
134



GENERIC HVAC ABBREVIATIONS (REFER TO CONTROL ABBREVIATIONS FOR ADDITIONAL NOMENCLATURE) Table with columns for abbreviations and full names.

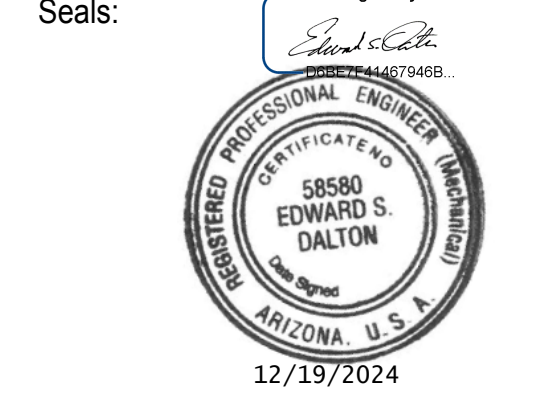
AIR SYSTEM SPECIFIC ABBREVIATIONS Table with columns for abbreviations and full names.

HVAC SHEET LIST Table with columns for SHEET NUMBER and SHEET NAME.



- HVAC GENERAL NOTES: 1. HVAC GENERAL NOTES, SYMBOLS LIST AND DETAILS ARE APPLICABLE TO ALL "M" SERIES DRAWINGS. 2. DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO INDICATE CAPACITY, SIZE, APPROXIMATE LOCATION AND GENERAL ARRANGEMENT...

Number Description Date 1 Issued for Permit & Construction 23 DEC 24



- 1. VERIFY ALL EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS. VERIFY AND PROVIDE DUCT TRANSITIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL DIMENSIONS BEFORE FABRICATION.

- PIPING SYSTEM SPECIFIC NOTES: 1. VERIFY ALL EQUIPMENT CONNECTIONS WITH MANUFACTURER CERTIFIED DRAWINGS. VERIFY AND PROVIDE FITTINGS TO TRANSITION TO FURNISHED EQUIPMENT CONNECTION SIZES. FIELD VERIFY AND COORDINATE ALL DIMENSIONS BEFORE FABRICATION.

Project Title: Fidelity Investments Fidelity Real Estate Company 245 Summer Street Boston, MA 02110

7171 E. Paradise Lane Suite R-120 Scottsdale, AZ 85254

Number Description Date 1 Issued for Permit & Construction 23 DEC 24

Key Plan:

DIVISION 23: HVAC SPECIFICATIONS

GENERAL REQUIREMENTS
1. THIS PROJECT INVOLVES CONSTRUCTION INSIDE AN EXISTING STRUCTURE. CONTRACTORS, BY SUBMITTING A BID ARE DEEMED TO BE COMPLETELY FAMILIAR WITH THE EXISTING CONDITION OF THE BUILDING AS IT INFLUENCES THE WORK DESCRIBED. POTENTIAL PROBLEMS AREA SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY.

DUCTWORK AND AIR DISTRIBUTION EQUIPMENT
1. ROUTING AND SIZING OF DUCTWORK: REFER TO GENERAL NOTE "SUBMITTALS" FOR ROUTING, WHERE DUCT SIZES ARE NOT INDICATED, CONTRACTOR SHALL SELECT SIZES BASED ON THE CFM USING THE "LOW PRESSURE DUCT SIZING TABLE."

LOW PRESSURE DUCT SIZING TABLE
Table with columns: Airflow (cfm), Round Duct Size (inches), Equivalent Rectangular Duct Sizes (inches x inches)

DUCTWORK AND AIR DISTRIBUTION EQUIPMENT CONTINUED
7. ACOUSTICAL SOUND LINING
A. PROVIDE 1" THICK ACOUSTICAL LINING BY CERTAIN-TEED, KNAUF, OWENS CORNING, OR MANVILLE FOR THE FOLLOWING DUCTWORK:
a. SUPPLY AND RETURN AIR DUCTWORK INCLUDING PLENUMS, FOR FORMING OF 20 FEET FROM AIR HANDLING UNITS.

HYDRONIC SYSTEMS
1. PIPING AND FITTINGS
A. PIPE MATERIALS AND FITTING MATERIALS SHALL BE AS INDICATED IN SCHEDULE OF PIPE AND FITTING MATERIALS. PROVIDE DIELECTRIC FITTINGS TO CONNECT DIFFERENT PIPING MATERIALS.

COOLING EQUIPMENT
1. VARIABLE REFRIGERANT FLOW (VRF)
A. PROVIDE SYSTEMS OF CAPACITIES AND TYPE AS SHOWN ON DRAWINGS BY TRANSMITSUBISHI OR DAIKIN. SYSTEM SHALL BE PROVIDED WITH ALL COMPONENTS NECESSARY FOR A COMPLETE WORKING SYSTEM, INCLUDING BUT NOT LIMITED TO:

AUTOMATIC TEMPERATURE CONTROL
1. THE EQUIPMENT/SYSTEMS IN THIS BUILDING WILL BE TIED INTO A CENTRAL MASTER CONTROLLER. INDIVIDUAL CONTROL COMPONENTS MAY NOT BE SHOWN ON CONTRACT DOCUMENTS, BUT CONTRACTOR SHALL PROVIDE ALL COMPONENTS AND CONTROL WIRING NECESSARY FOR A COMPLETE OPERABLE SYSTEM. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SYSTEM COMPONENTS.

COMMISSIONING
1. THE HVAC SYSTEMS SHALL BE PROVIDED WITH SYSTEM COMMISSIONING BY THE CONTRACTOR IN ACCORDANCE WITH THE STATE'S ENERGY CODE.

2. RELATED DOCUMENTS: DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND OTHER DIVISION 01 SPECIFICATION SECTIONS, APPLY TO THIS SECTION.
3. SUMMARY: SECTION INCLUDES GENERAL REQUIREMENTS THAT APPLY TO IMPLEMENTATION OF COMMISSIONING WITHOUT REGARD TO SPECIFIC SYSTEMS, ASSEMBLIES, OR COMPONENTS.

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Seals:
Professional Engineer Seal for Edward S. Vanderweil, No. 121797024, State of Massachusetts

General Notes:

Project Title:
Fidelity Investments
Fidelity Real Estate Company
245 Summer Street
Boston, MA 20110
7171 E. Paradise Lane
Suite R-120
Scottsdale, AZ 85254

Table with 3 columns: Number, Description, Date. Row 1: 1, Issued for Permit & Construction, 23 DEC 24.

Key Plan:

Project No.: C0115.00
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Drawing Sheet Title:
HVAC DIVISION 23
SPECIFICATIONS

Drawing Sheet Number:
M-004

Owner's Branch No.:
134

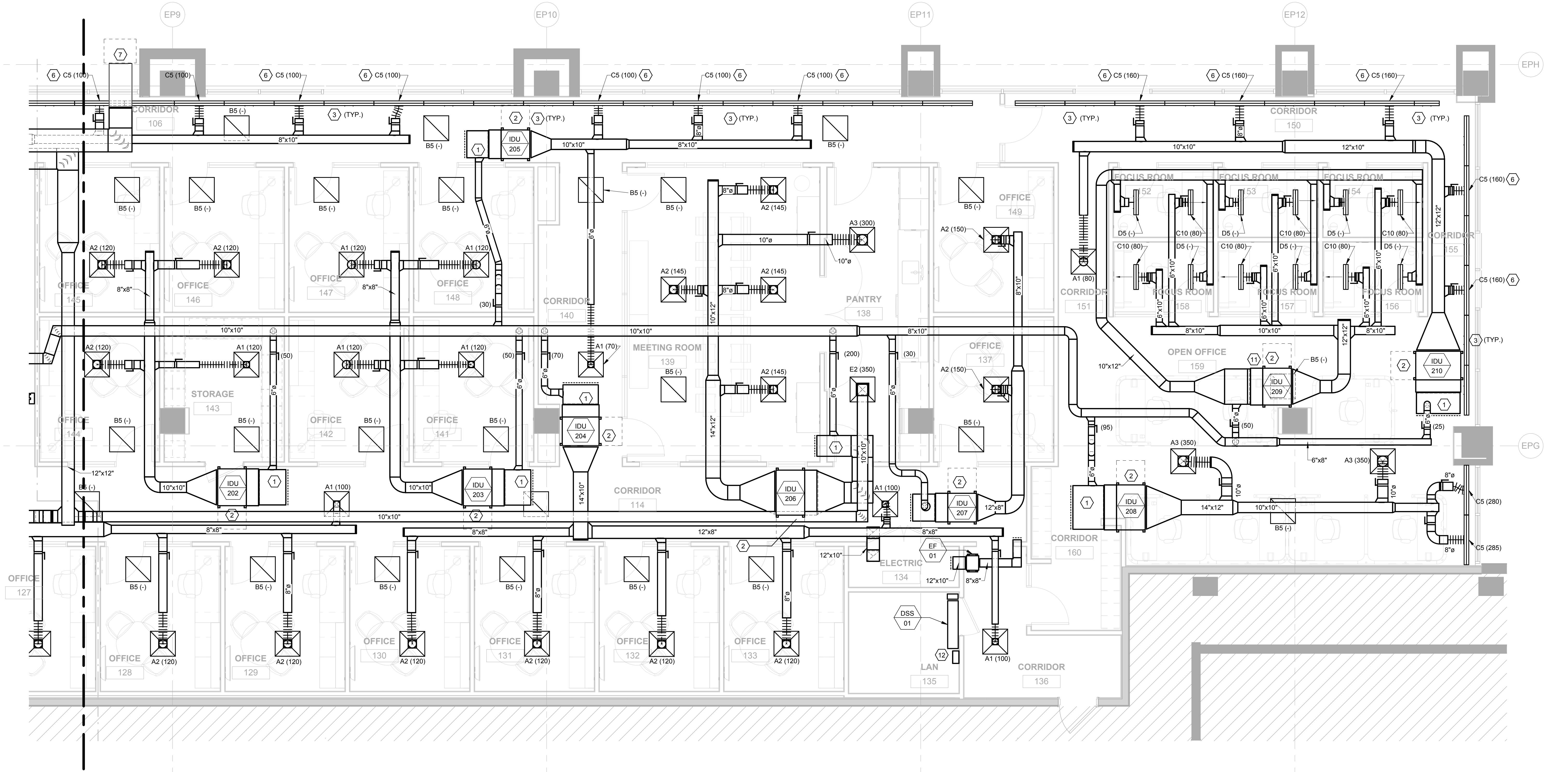


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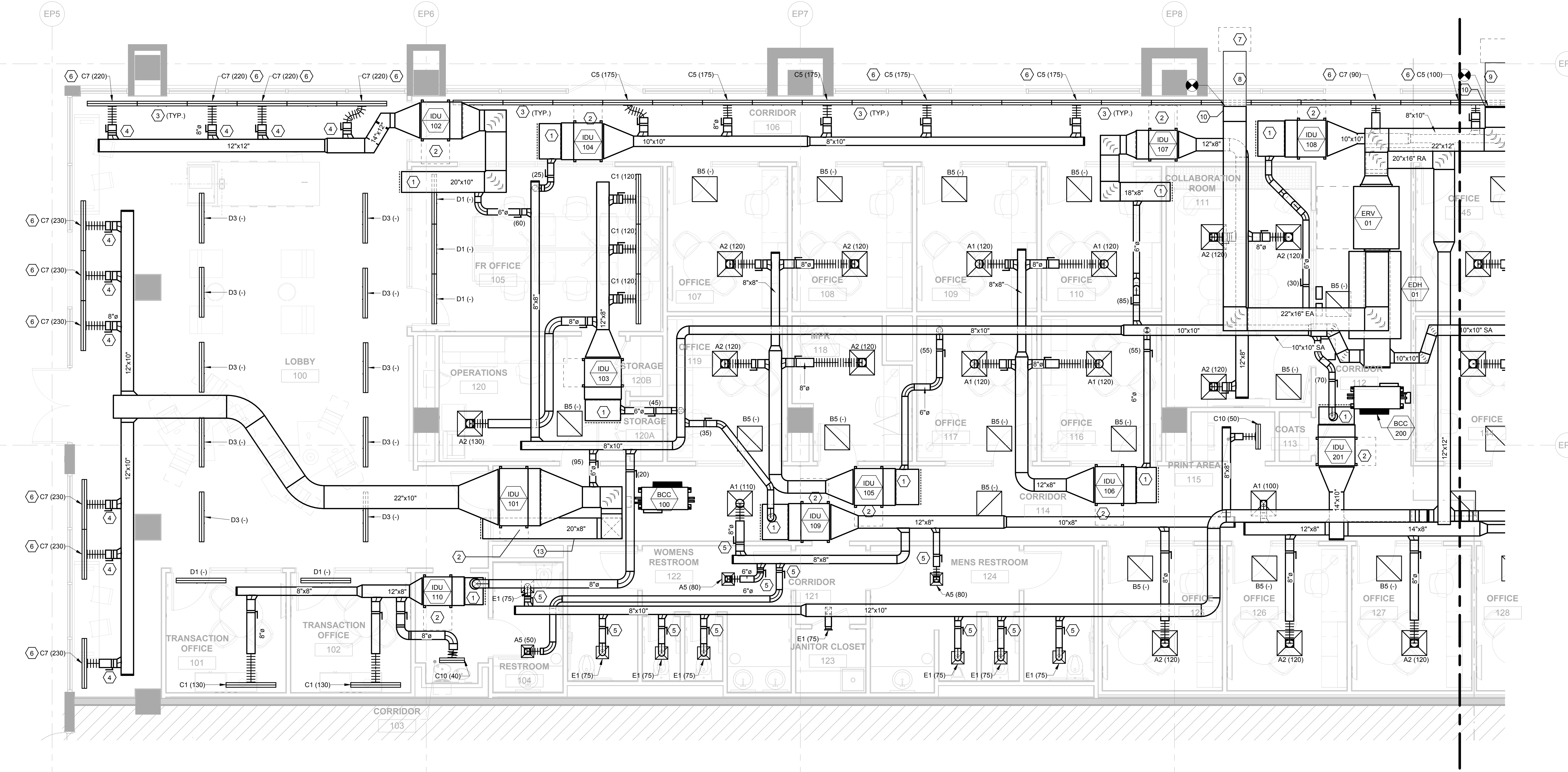
- REFER TO SHEET M-001 & M-002 FOR HVAC LEGEND.
- CONTRACTOR TO ENSURE A RETURN AIR PATH IS AVAILABLE FROM ALL ROOMS AND SPACES BACK TO THE MAIN RETURN AIR DUCT INLETS. CONTRACTOR SHALL PROVIDE TRANSFER DUCTS AT ALL FULL HEIGHT PARTITIONS. ALL TRANSFER DUCTS SHALL BE LINED AND CONSTRUCTED ACCORDING TO DETAIL. MAXIMUM VELOCITY SHALL BE 300 FPM.
- PROVIDE VOLUME DAMPERS AT EACH DIFFUSER, REGISTER AND GRILLE (AIR DEVICE). DAMPERS SHALL BE OPPOSED BLADE ADJUSTABLE TYPE. ALL VOLUME DAMPERS SHALL BE ACCESSIBLE. DAMPERS LOCATED IN INACCESSIBLE LOCATIONS SHALL BE REMOTE OPERATED BY UNITED ENERTECH OR EQUAL.
- CONTRACTORS SHALL FIELD VERIFY ALL DUCT AND PIPE SIZES AND LOCATIONS PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL INFORM ENGINEER OF ANY DISCREPANCIES ON DRAWINGS.
- PROVIDE FIRE DAMPERS AT ALL FIRE RATED PARTITIONS, SMOKE DAMPERS AT ALL SMOKE RATED PARTITIONS AND FIRE/SMOKE DAMPERS AT ALL FIRE AND SMOKE RATED PARTITIONS.
- ALL DUCT RUNOUTS TO DIFFUSERS SHALL MATCH SCHEDULED DIFFUSER NECK SIZE, UNLESS OTHERWISE NOTED.
- HVAC CONTRACTOR SHALL INCLUDE AS PART OF PROJECT SCOPE (1) 8 HOUR DAY FOR HVAC TECHNICIAN, BALANCING CONTRACTOR AND CONTROLS CONTRACTOR TO INTERFACE WITH THE HVAC DESIGN ENGINEER AFTER THE REQUIRED START UP AND BALANCING HAS BEEN COMPLETED TO VERIFY PROPER OPERATIONS OF ALL MECHANICAL SYSTEMS BEFORE THE SPACE IS TURNED OVER TO FIDELITY INVESTMENTS. DURING THIS MEETING, THE CONTRACTORS SHALL HAVE WITH THEM ALL NECESSARY EQUIPMENT TO VERIFY OPERATIONS OF EQUIPMENT AND TO VERIFY AIRFLOWS, DIFFUSERS AND TRAVELERS. ANY DEFICIENCIES FOUND DURING THIS WALK THROUGH SHALL BE CORRECTED AT NO ADDITIONAL EXPENSE TO OWNER.
- ALL MAJOR EQUIPMENT IN THE CEILING TO BE MOUNTED AT ACCESSIBLE HEIGHT IN THE CEILING FLENUM.
- PROVIDE A MINIMUM OF 3FT AND A MAXIMUM OF 5FT FLEX DUCT ON ALL SUPPLY AND RETURN AIR DIFFUSER/GRILLE CONNECTIONS.

KEYNOTES

- OPEN ENDED DUCT WITH WIRE MESH SCREEN. DUCT SHALL MATCH UNIT CONNECTION SIZE.
- DASHED LINES INDICATE ACCESS CLEARANCE. ACCESS CLEARANCE SHALL REMAIN CLEAR TO ALLOW REQUIRED MAINTENANCE OF EQUIPMENT. COORDINATE WITH OTHER SUB CONTRACTORS TO ENSURE THIS AREA REMAINS CLEAR. TYPICAL.
- PROVIDE BLANKOFF LINEAR DIFFUSER TO MAINTAIN CONTINUOUS APPEARANCE. COORDINATE WITH ARCHITECTURAL DETAILS TO MAINTAIN MINIMUM CLEARANCE FROM SHADE.
- PROVIDE REMOTE BALANCING DAMPER. SEE DETAIL 12 ON SHEET M-001.
- PROVIDE REMOTE BALANCING DAMPER. SEE DETAIL 13 ON SHEET M-001.
- COORDINATE LINEAR DIFFUSER LOCATION WITH ARCHITECTURE DETAILS TO MAINTAIN MINIMUM CLEARANCE FROM SHADE.
- EXISTING RETURN AIR INLET SHALL REMAIN IN PLACE.
- EXISTING 22"x12" EA DUCT TO LOUVER.
- EXISTING 22"x12" OA DUCT TO LOUVER.
- CONNECT ERV INTAKE AND EXHAUST TO EXISTING DUCTS AND LOUVERS.
- PROVIDE 1" OF INTERNAL LINE FOR SA MAIN DUCT. PROVIDE 1" OF INTERNAL LINED DUCT ON THE RETURN AIR FUCT FOR S.
- VRF CENTRAL CONTROLLER, TRANE MITSUBISHI MODEL TE-200A.
- ROUTE RETURN DUCT UP TO BE ABOVE THE CLEARANCE AREA OF THE IDU.



1 HVAC DUCTWORK - LEVEL 1 EAST
1/4" = 1'-0"



2 HVAC DUCTWORK - LEVEL 1 WEST
1/4" = 1'-0"

Project Title:

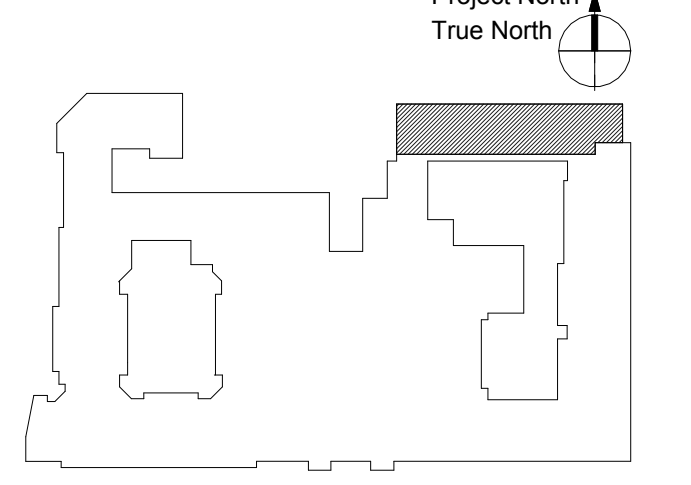


Fidelity Real Estate Company
245 Summer Street
Boston, MA 20110

7171 E. Paradise Lane
Suite R-120
Scottsdale, AZ 85254

Number	Description	Date
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Key Plan:

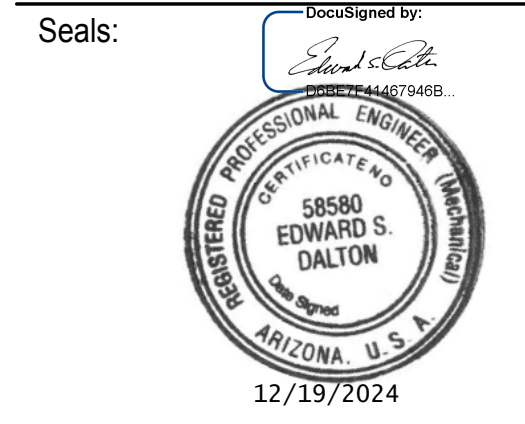


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Drawing Sheet Title:
HVAC DUCTWORK - LEVEL 1

Drawing Sheet Number:
M-201

Owner's Branch No.:
134



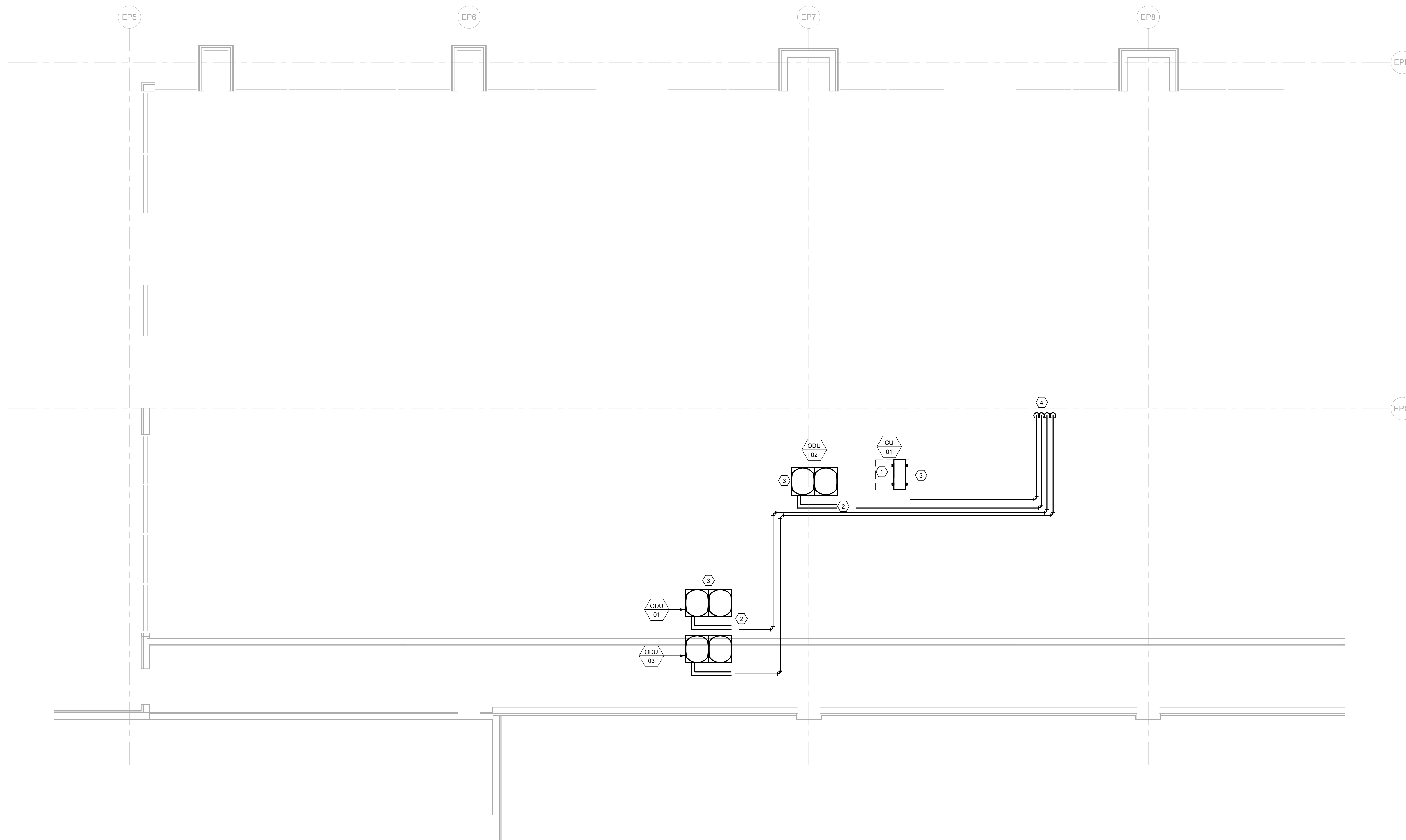
General Notes:

NOTES

- REFER TO SHEET M.001 & M.002 FOR HVAC LEGEND.
- CONTRACTORS SHALL FIELD VERIFY ALL DUCT AND PIPE SIZES AND LOCATIONS PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL INFORM ENGINEER OF ANY DISCREPANCIES ON DRAWINGS.
- HVAC CONTRACTOR SHALL INCLUDE AS PART OF PROJECT SCOPE (1) 8 HOUR DAY FOR HVAC TECHNICIAN BALANCING CONTRACTOR AND CONTROLS CONTRACTOR TO INTERFACE WITH THE HVAC DESIGN ENGINEER AFTER THE REQUIRED START UP AND BALANCING HAS BEEN COMPLETED. TO VERIFY PROPER OPERATIONS OF ALL MECHANICAL SYSTEMS BEFORE THE SPACE IS TURNED OVER TO FIDELITY INVESTMENTS. DURING THIS MEETING, THE CONTRACTORS SHALL HAVE WITH THEM ALL NECESSARY EQUIPMENT TO VERIFY OPERATIONS OF EQUIPMENT AND TO VERIFY AIRFLOWS (DIFFUSER AND TRAVERSE). ANY DEFICIENCIES FOUND DURING THIS WALK THROUGH SHALL BE CORRECTED AT NO ADDITIONAL EXPENSE TO OWNER.
- ALL EQUIPMENT LOCATIONS ON ROOF TO BE COORDINATED WITH THE LANDLORD.

KEYNOTES

- REFRIGERANT LINES BETWEEN INDOOR UNIT AND OUTDOOR UNIT ON ROOF. CONTRACTOR SHALL CONFIRM FINAL ROUTING SIZING WITH MANUFACTURER'S RECOMMENDATIONS BEFORE INSTALLATION.
- REFRIGERANT LINES BETWEEN INDOOR UNIT AND OUTDOOR UNIT ON ROOF. CONTRACTOR SHALL CONFIRM FINAL ROUTING AND SIZING WITH MANUFACTURER'S RECOMMENDATIONS BEFORE INSTALLATION.
- INSTALL ROOF EQUIPMENT ON CURB RAILS. SEE DETAIL ON SHEET M.501.
- COORDINATE NEW PIPE ROUTING WITH EXISTING SHAFT PENETRATION



1 HVAC ROOF PLAN
1/4" = 1'-0"

Project Title:

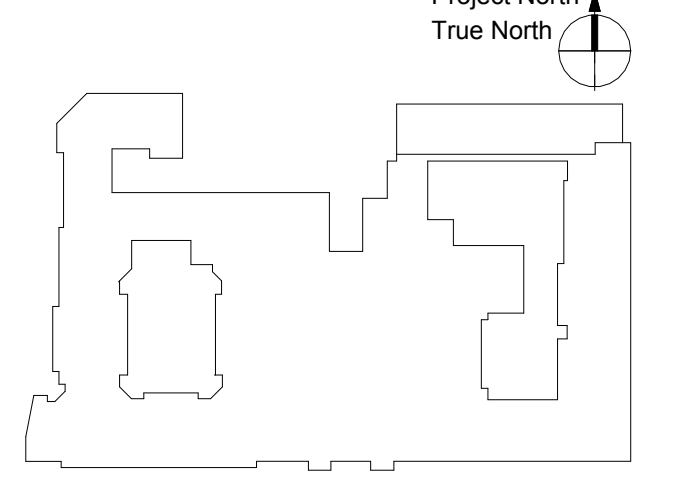


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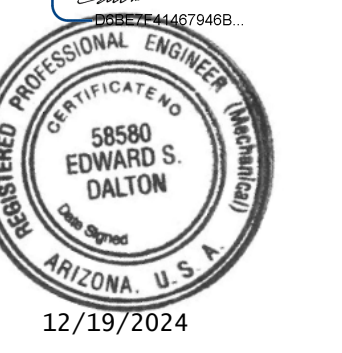


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Drawing Sheet Title:
HVAC - ROOF

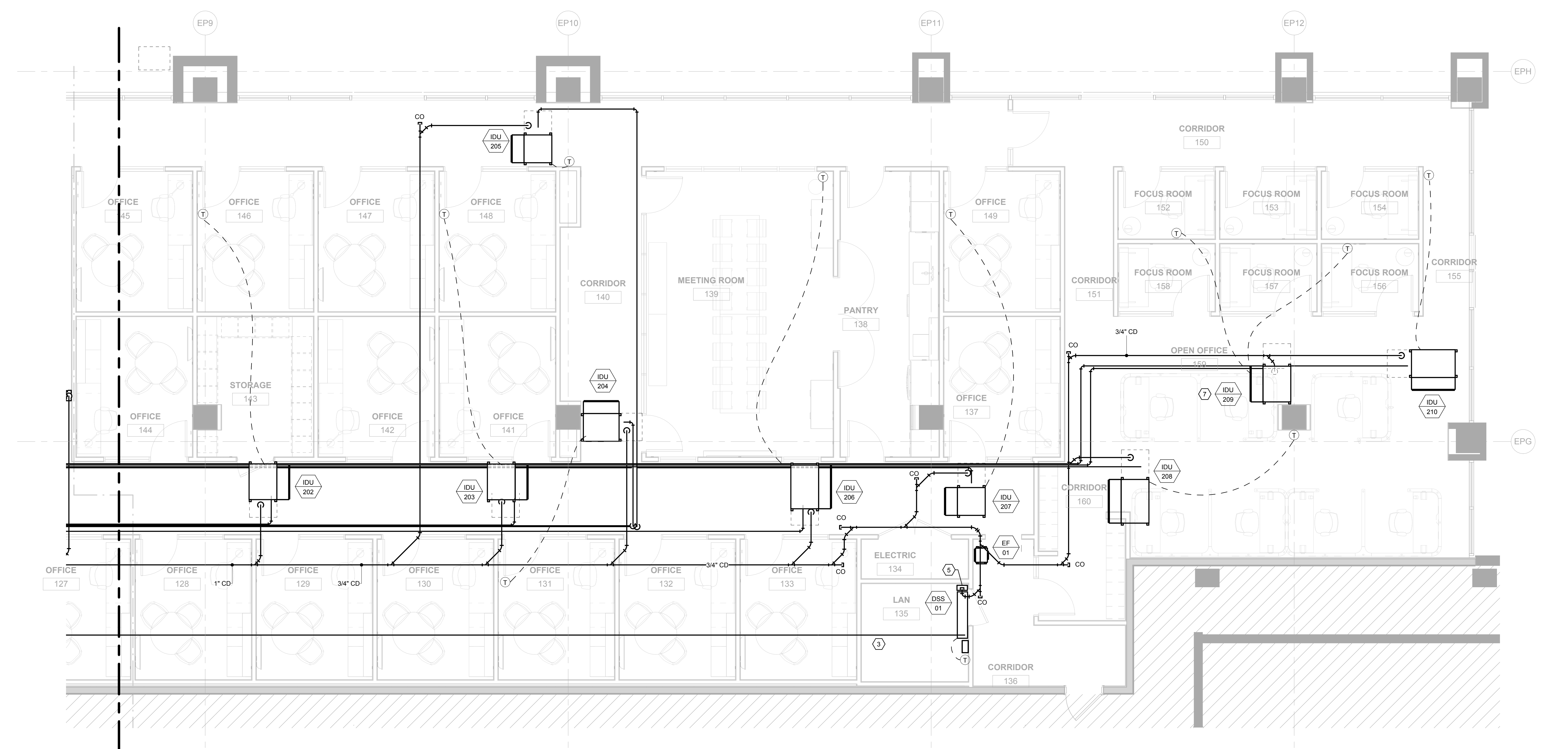
Drawing Sheet Number:
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Owner's Branch No.:
134

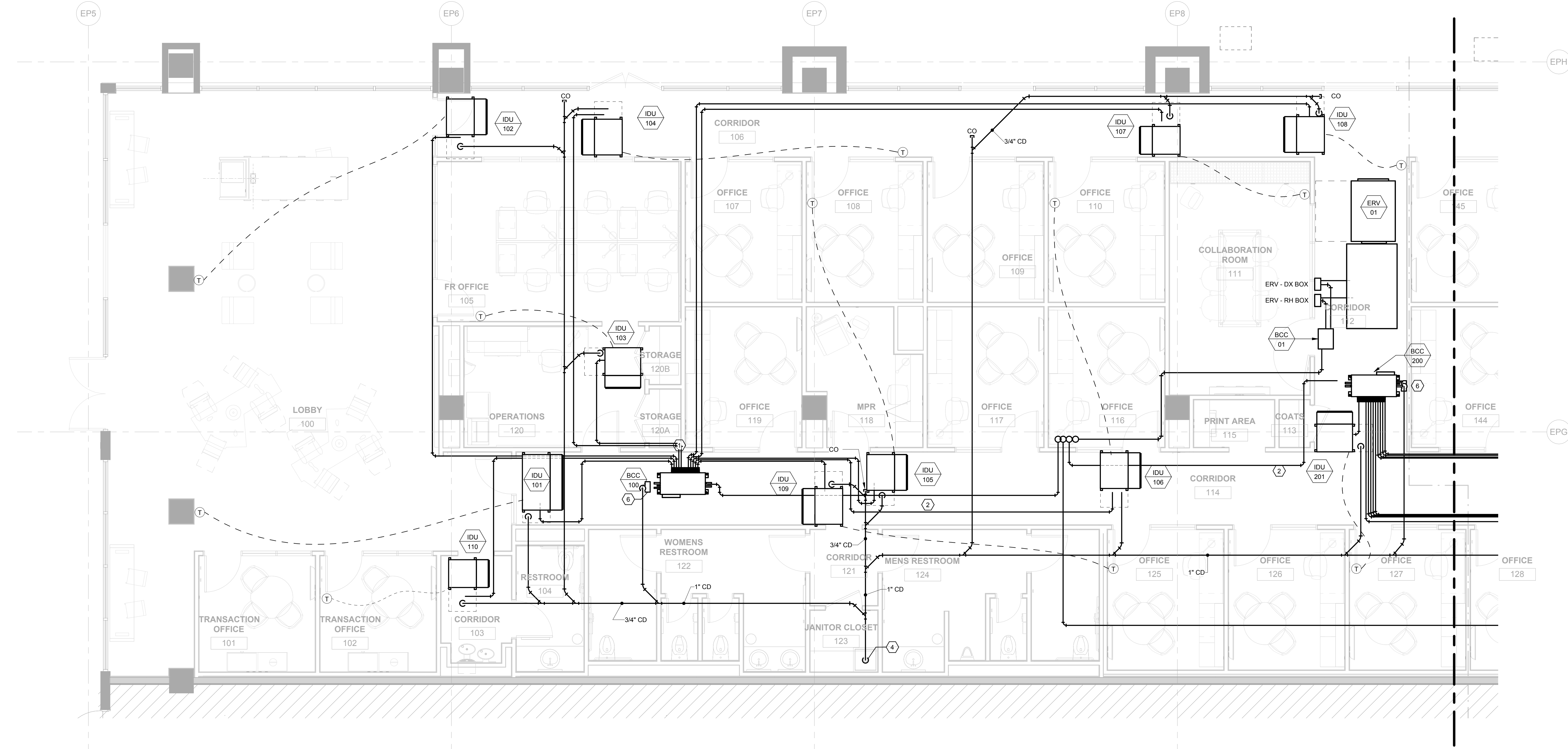


- NOTES**
- REFER TO SHEET M-001 & M-002 FOR HVAC LEGEND.
 - CONTRACTORS SHALL FIELD VERIFY ALL DUCT AND PIPE SIZES AND LOCATIONS PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL INFORM ENGINEER OF ANY DISCREPANCIES ON DRAWINGS.
 - ALL CONDENSATE PIPING RUNOUTS TO TERMINAL EQUIPMENT SHALL BE 3/4" UNLESS OTHERWISE NOTED.
 - CONDENSATE DRAIN PIPING SHALL PITCH DOWN 1/8 INCH PER 1 FOOT TO APPROVED DRAIN LOCATION.
 - HVAC CONTRACTOR SHALL INCLUDE AS PART OF PROJECT SCOPE (1) 8 HOUR DAY FOR HVAC TECHNICIAN, BALANCING CONTRACTOR AND CONTROLS CONTRACTOR TO INTERFERE WITH THE HVAC DESIGN ENGINEER AFTER THE REQUIRED START UP AND BALANCING HAS BEEN COMPLETED TO VERIFY PROPER OPERATIONS OF ALL MECHANICAL SYSTEMS BEFORE THE SPACE IS TURNED OVER TO FIDELITY INVESTMENTS. DURING THIS MEETING, THE CONTRACTORS SHALL HAVE WITH THEM ALL NECESSARY EQUIPMENT TO VERIFY OPERATIONS OF EQUIPMENT AND TO VERIFY AIRFLOWS (DIFFUSER AND TRAVERSE). ANY DISCREPANCIES FOUND DURING THIS WALK THROUGH SHALL BE CORRECTED AT NO ADDITIONAL EXPENSE TO OWNER.
 - THERMOSTATS SHALL BE MOUNTED 4'-0" ABOVE FINISHED FLOOR, COORDINATE EXACT LOCATION WITH THE ARCHITECT. THERMOSTATS SHALL NOT BE MOUNTED ABOVE DIMMERS.

- KEYNOTES**
- REFRIGERANT SET FOR THE VRF SYSTEM. VRF REFRIGERANT PIPING SHALL BE SIZED AND ROUTED PER THE MANUFACTURER'S INSTRUCTIONS.
 - NEW REFRIGERANT PIPING FROM THE BCC TO THE VRF OUTDOOR UNIT LOCATED ON THE ROOF. VRF OUTDOOR UNIT IS ON THE ROOF. SEE SHEET M-003 FOR APPROXIMATE NEW LOCATION.
 - REFRIGERANT LINES BETWEEN INDOOR UNIT AND OUTDOOR UNIT ON THE ROOF. CONTRACTOR SHALL CONFIRM FINAL ROUTING AND SIZING WITH MANUFACTURER'S RECOMMENDATIONS BEFORE INSTALLATION.
 - ROUTE CD DOWN TO THE JAN MOP SINK.
 - PROVIDE MANUFACTURER'S OPTIONAL CONDENSATE PUMP WITH RESERVOIR. WIRE PUMP TO SHUT DOWN DSS/CU. PUMP SHALL BE POWERED BY THE SAME CIRCUIT AS THE BCC.
 - PROVIDE MANUFACTURER'S OPTIONAL CONDENSATE PUMP WITH RESERVOIR. WIRE PUMP TO SHUT DOWN BCC. PUMP SHALL BE PLENUM RATED AND POWERED BY SAME CIRCUIT AS THE BCC.
 - PROVIDE AVERAGING THERMOSTATS.



1 HVAC PIPING - LEVEL 1 EAST
1/4" = 1'-0"



2 HVAC PIPING - LEVEL 1 WEST
1/4" = 1'-0"

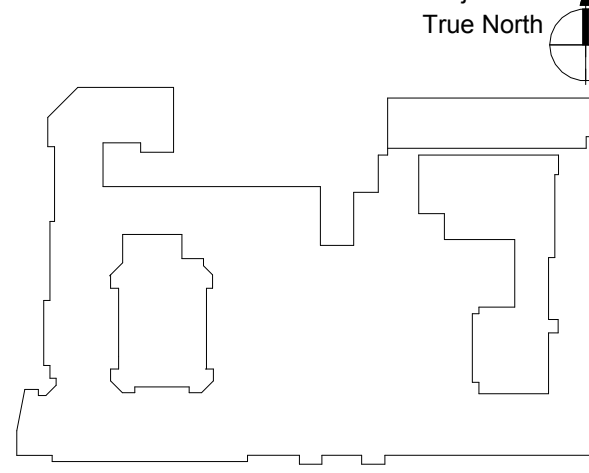


Fidelity Real Estate Company
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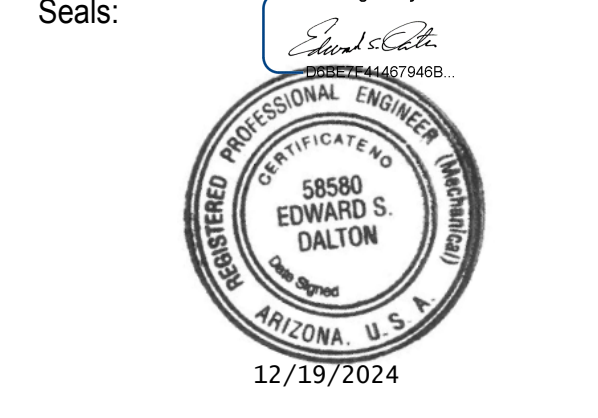


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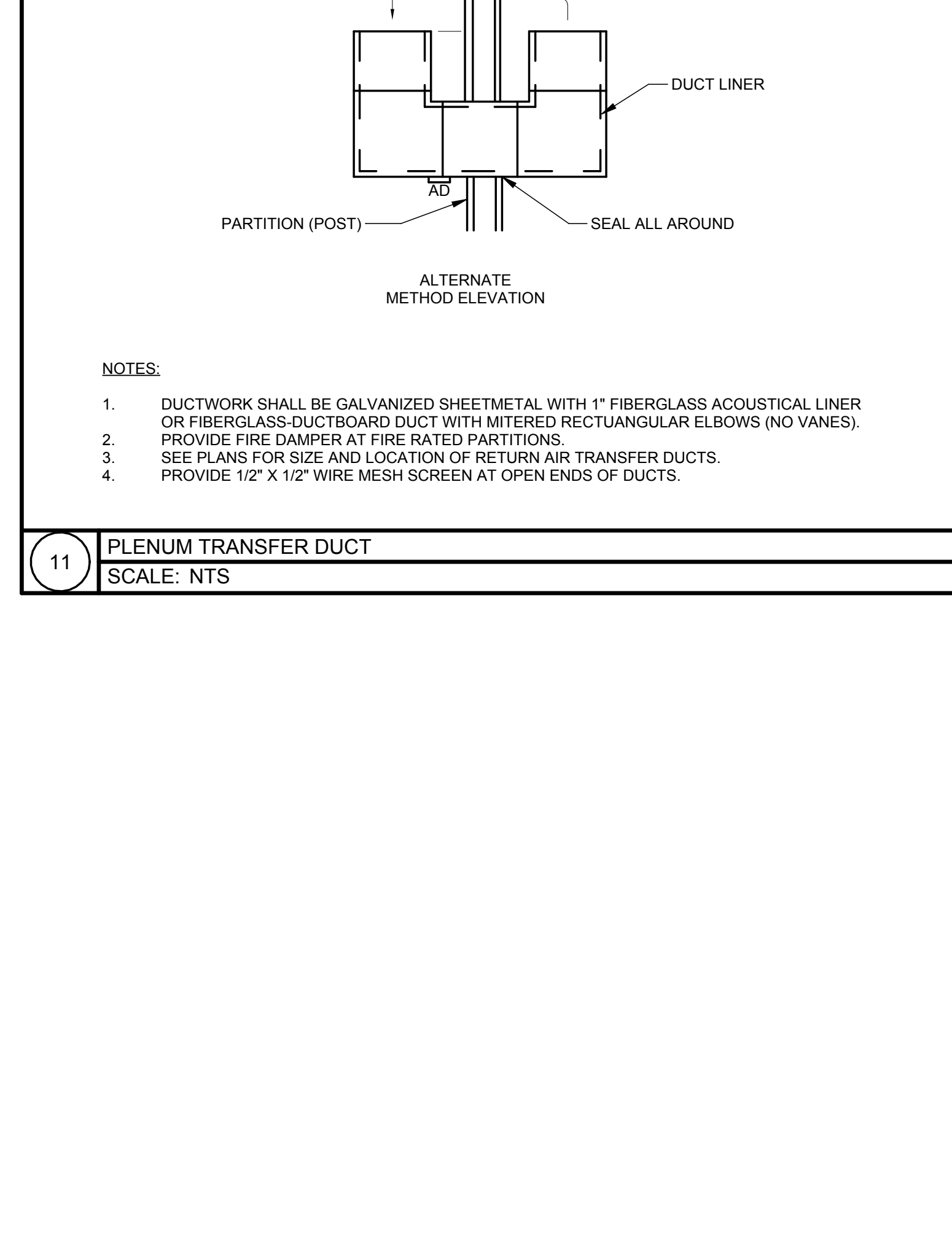
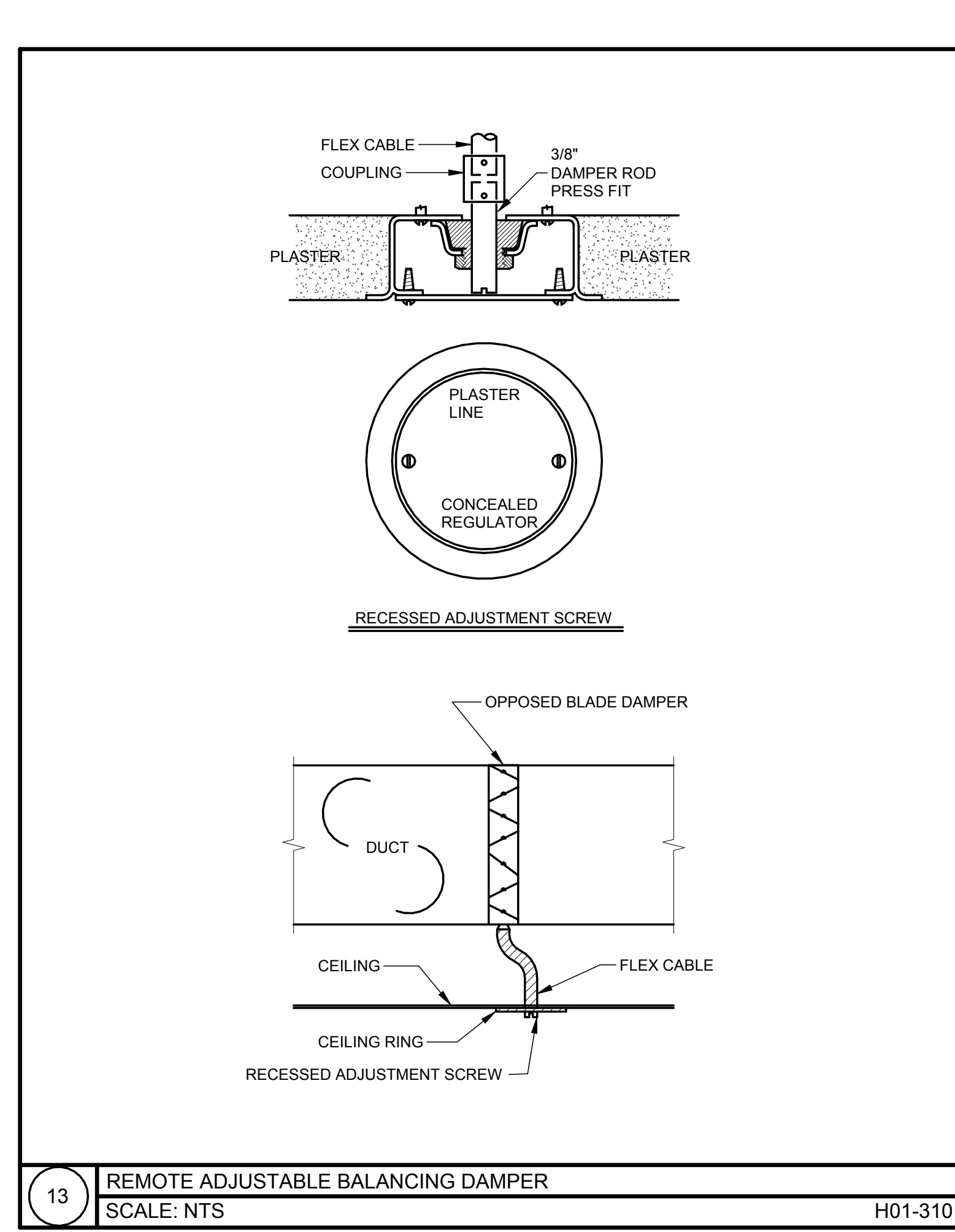
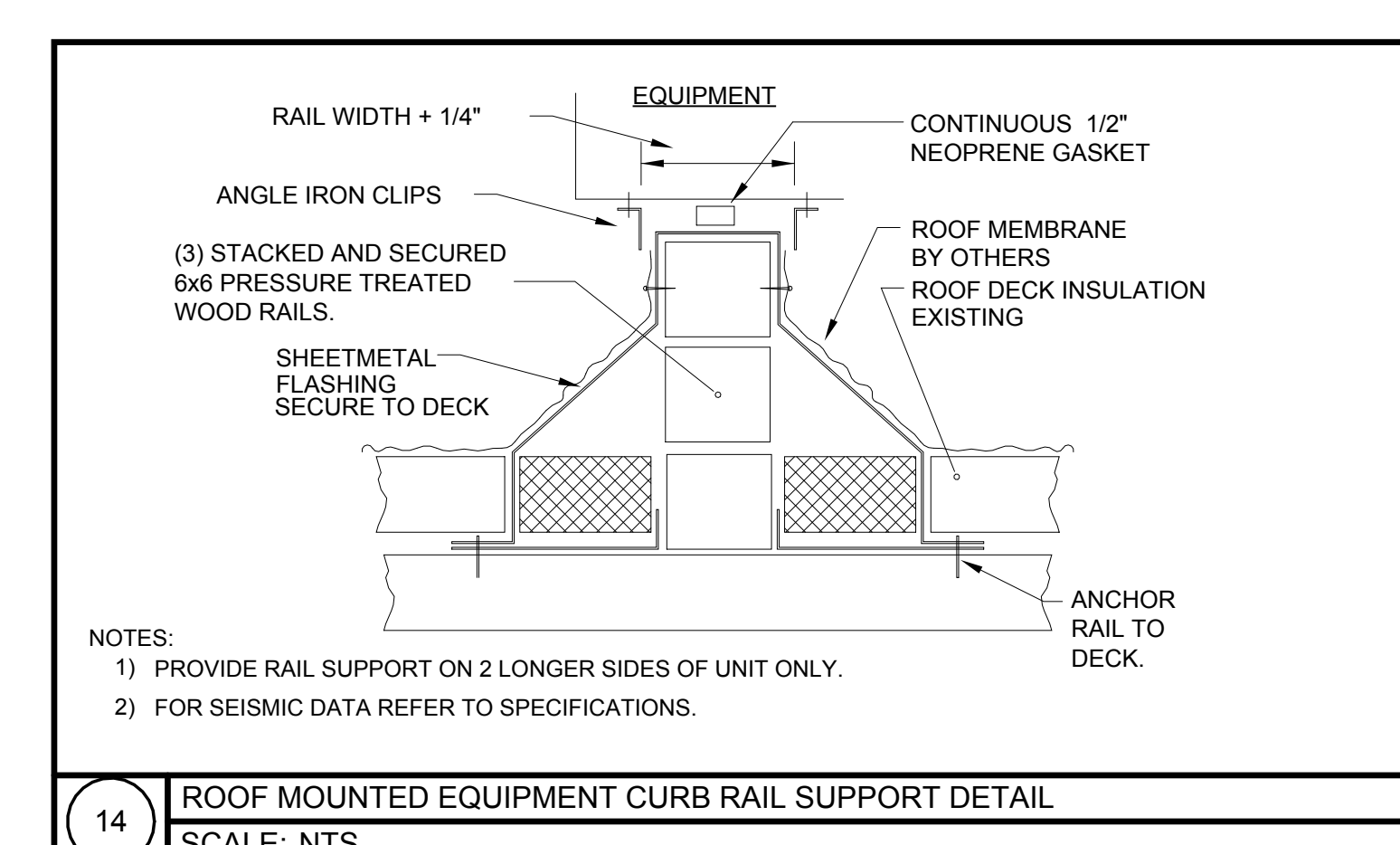
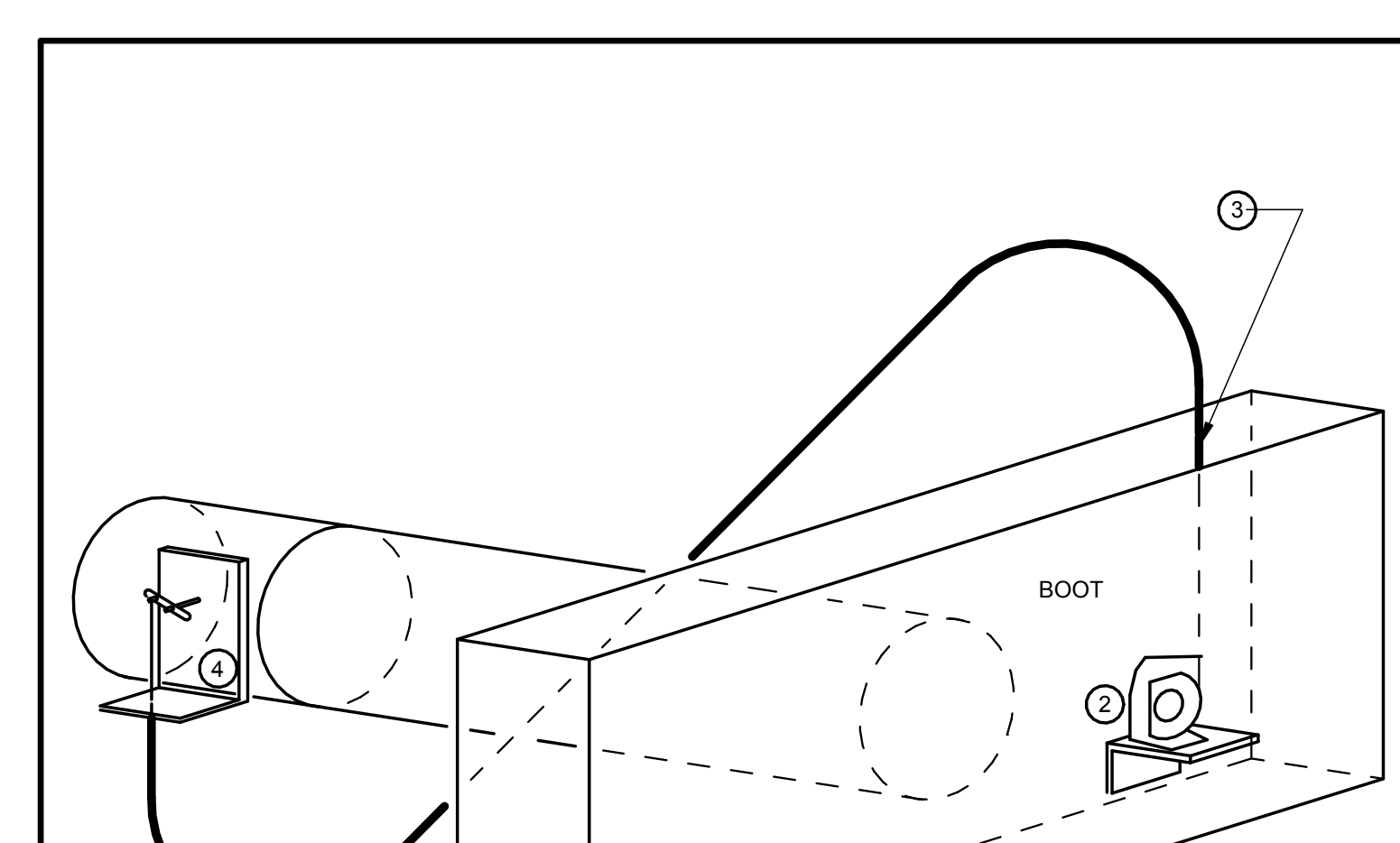
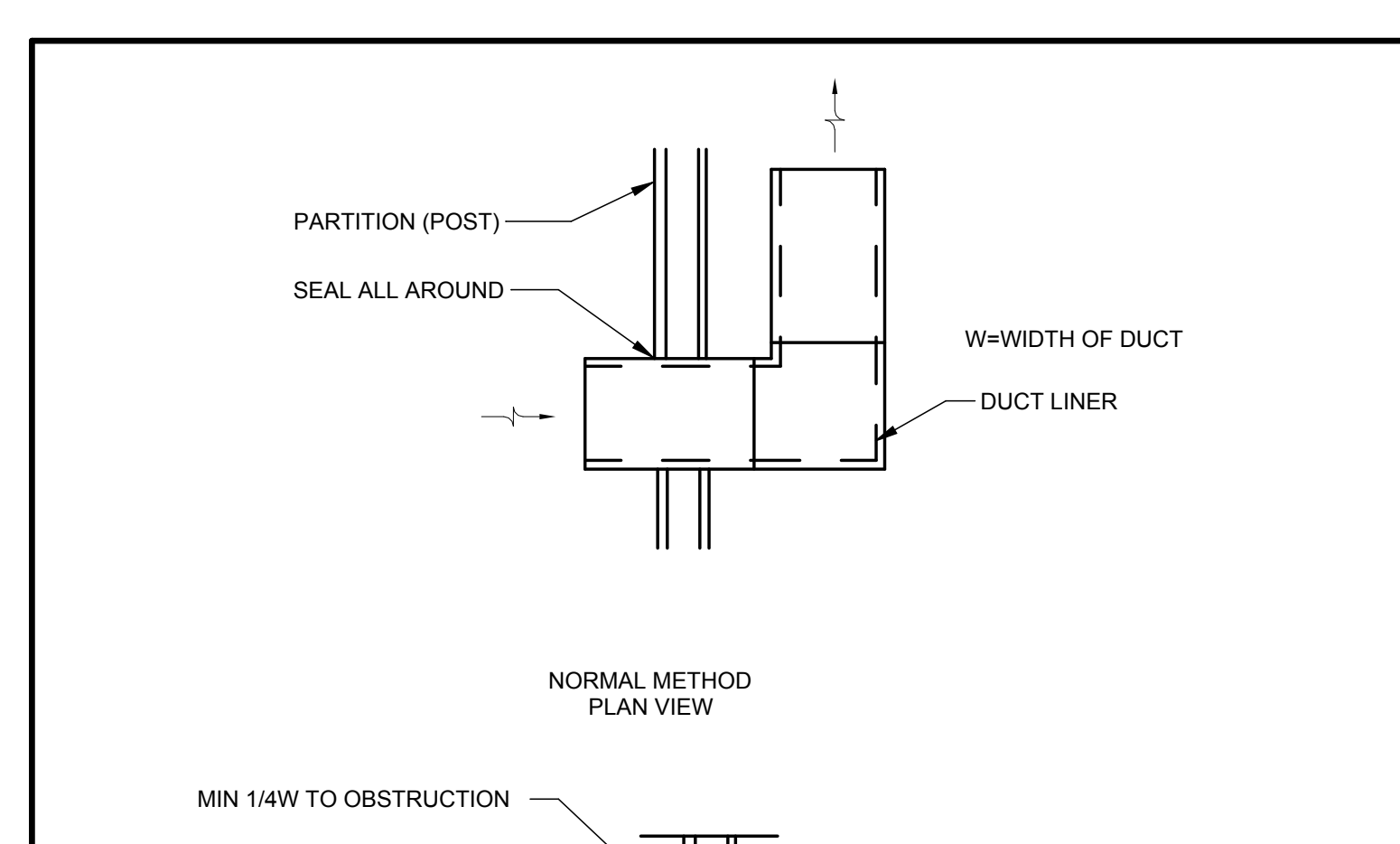
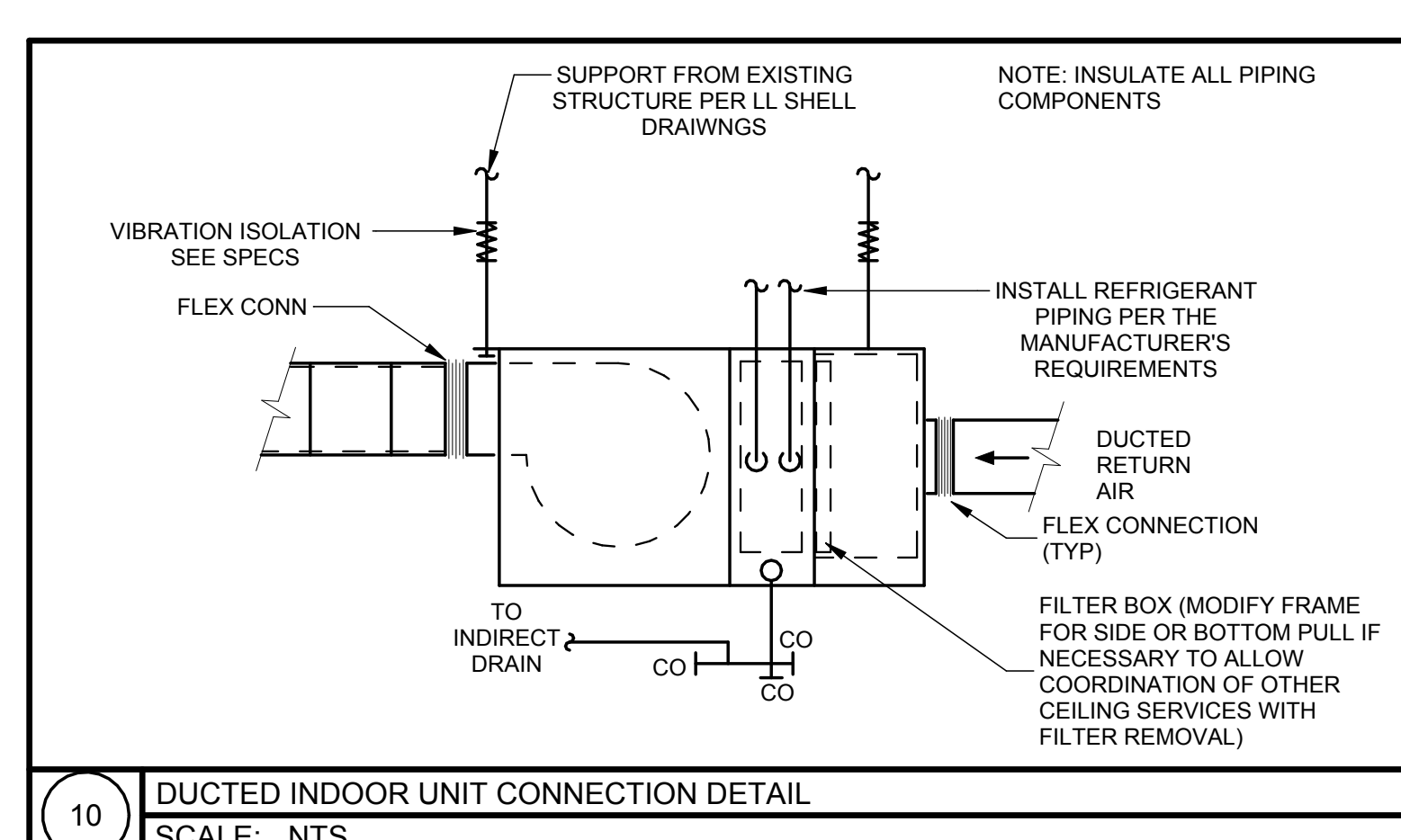
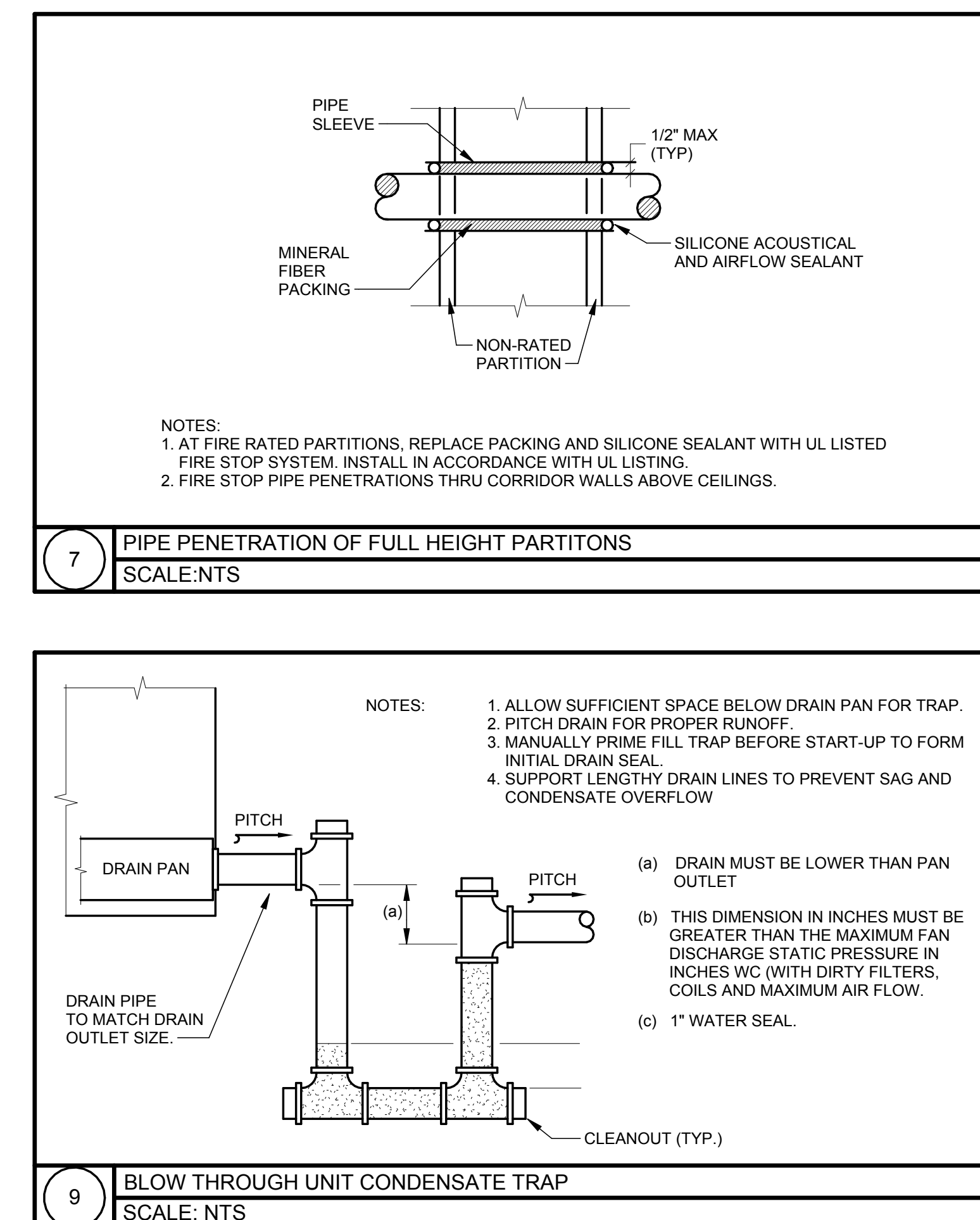
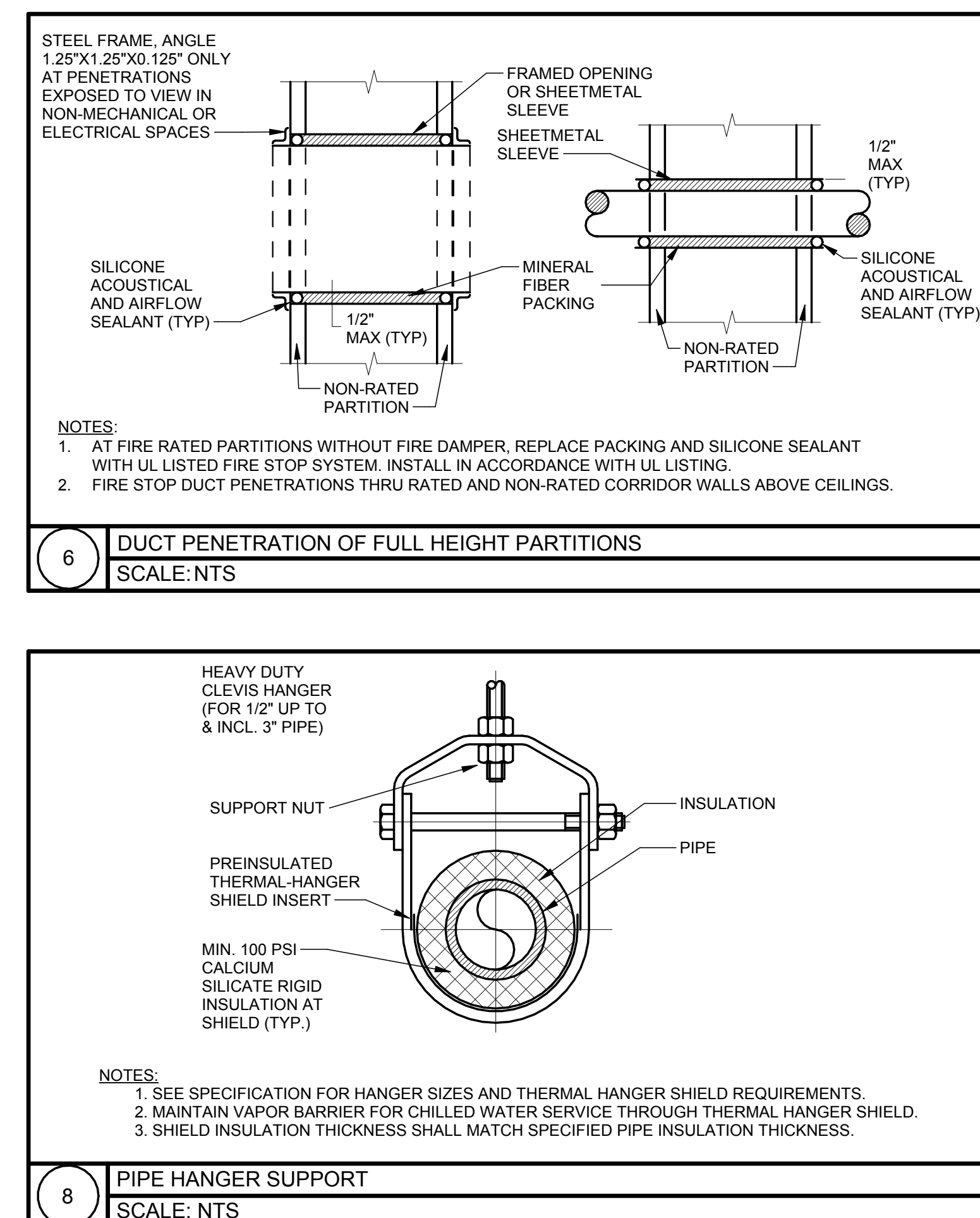
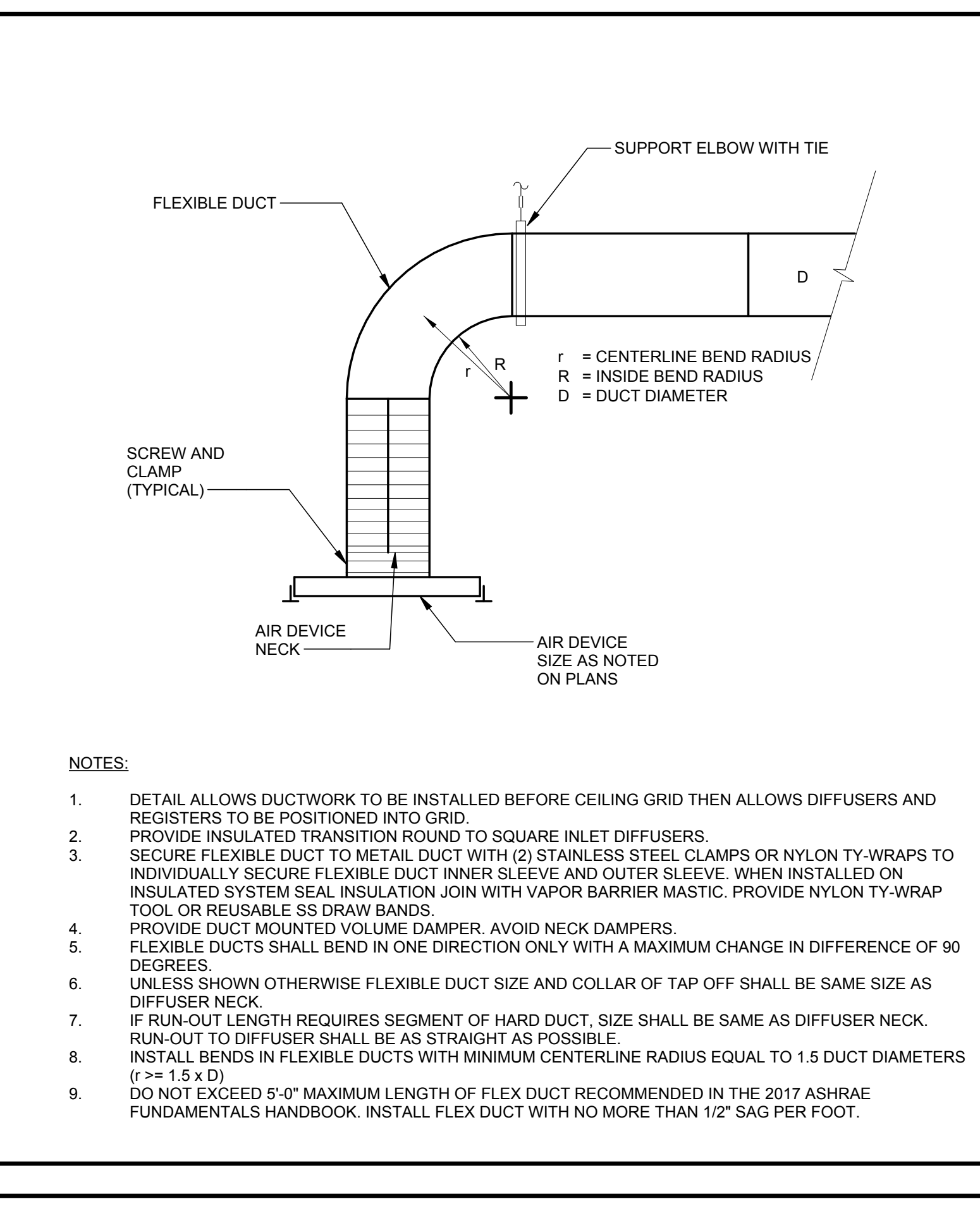
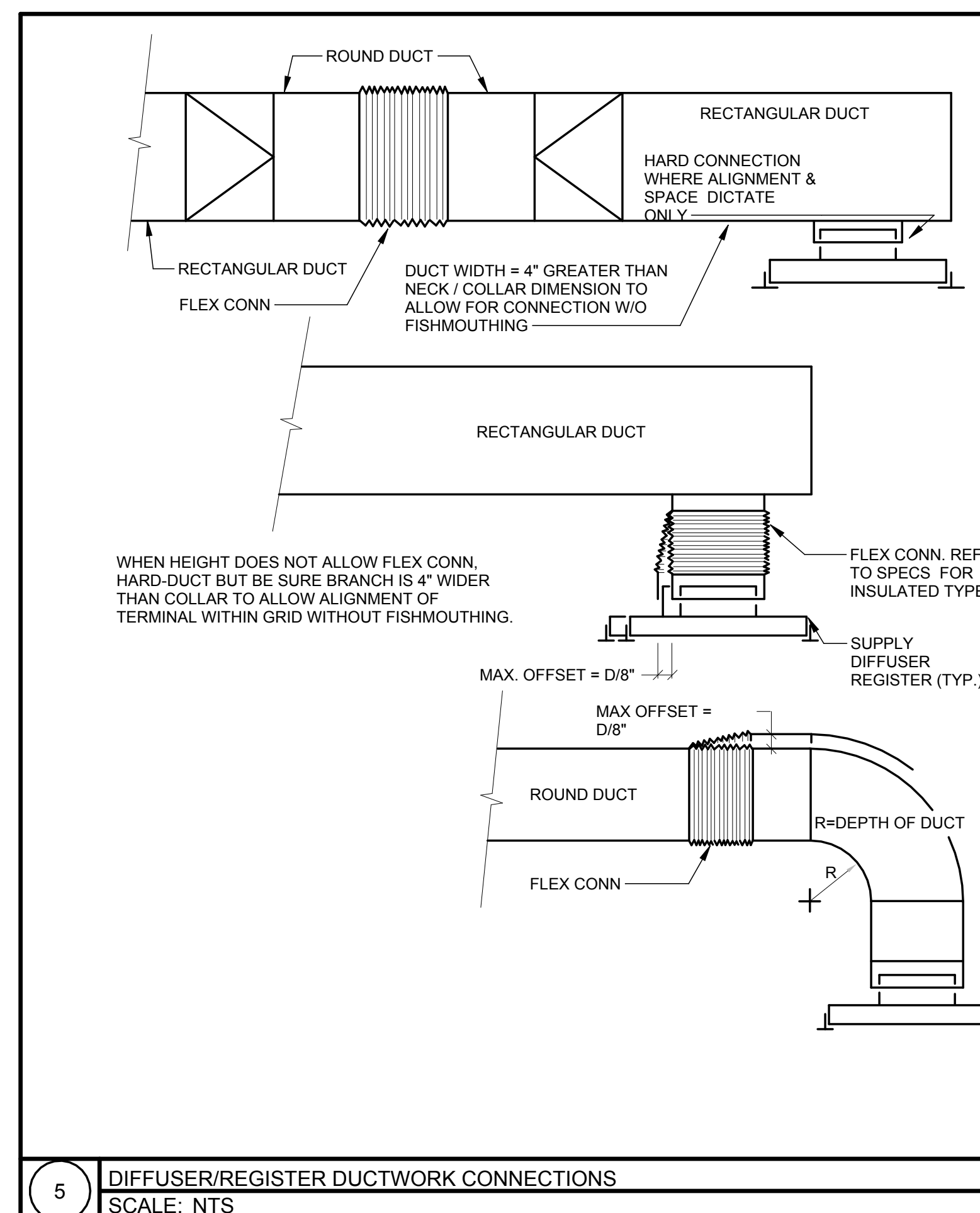
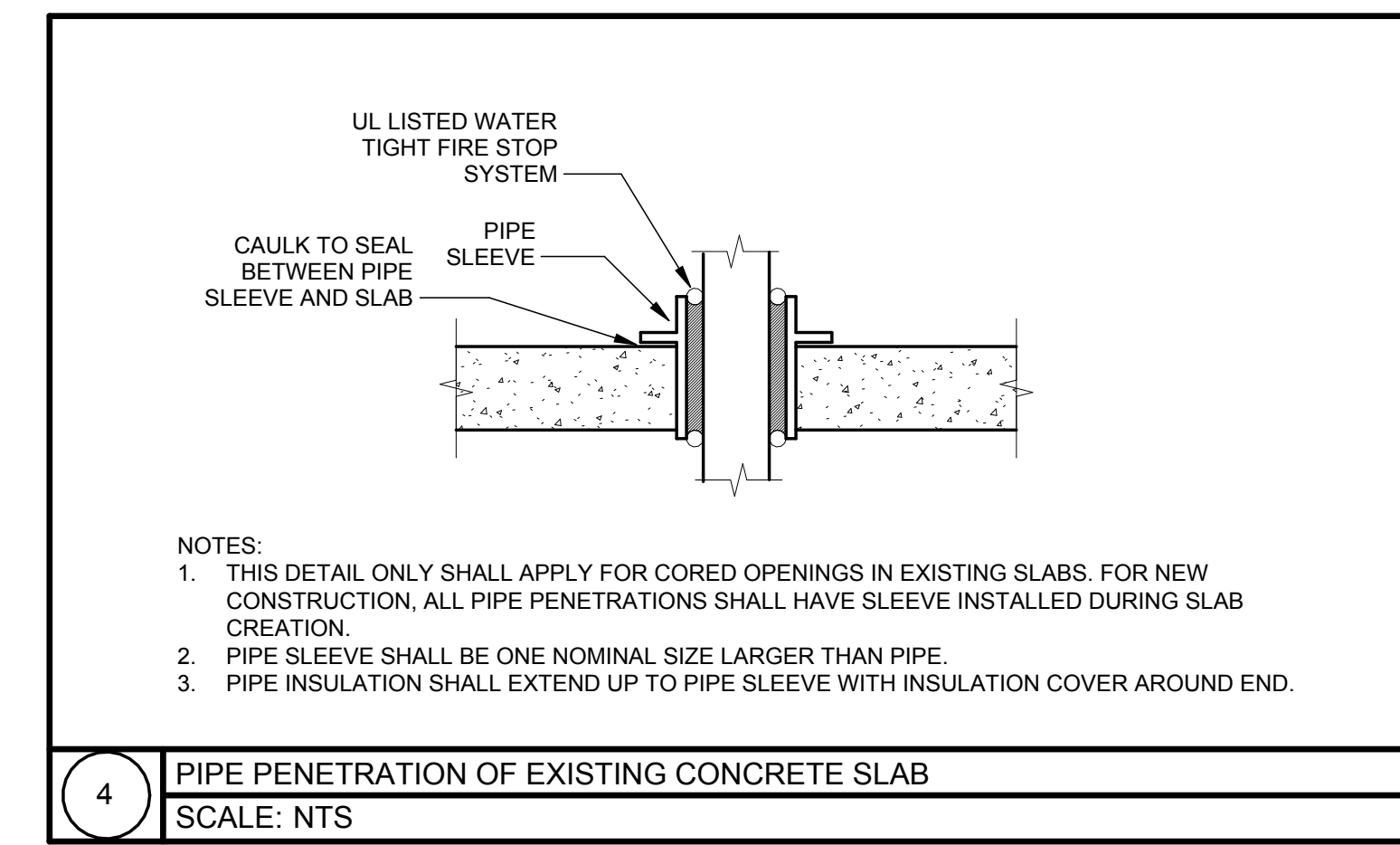
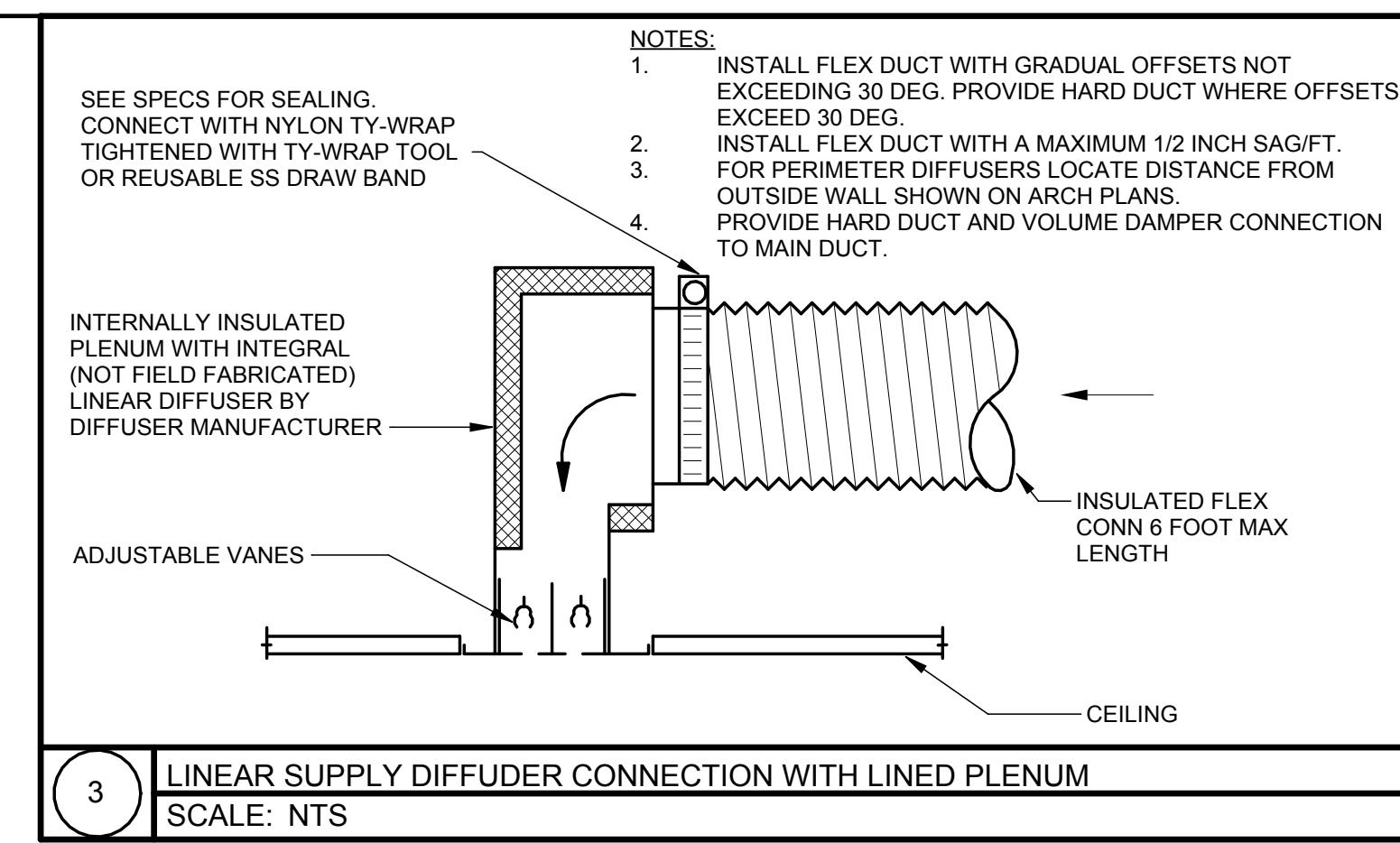
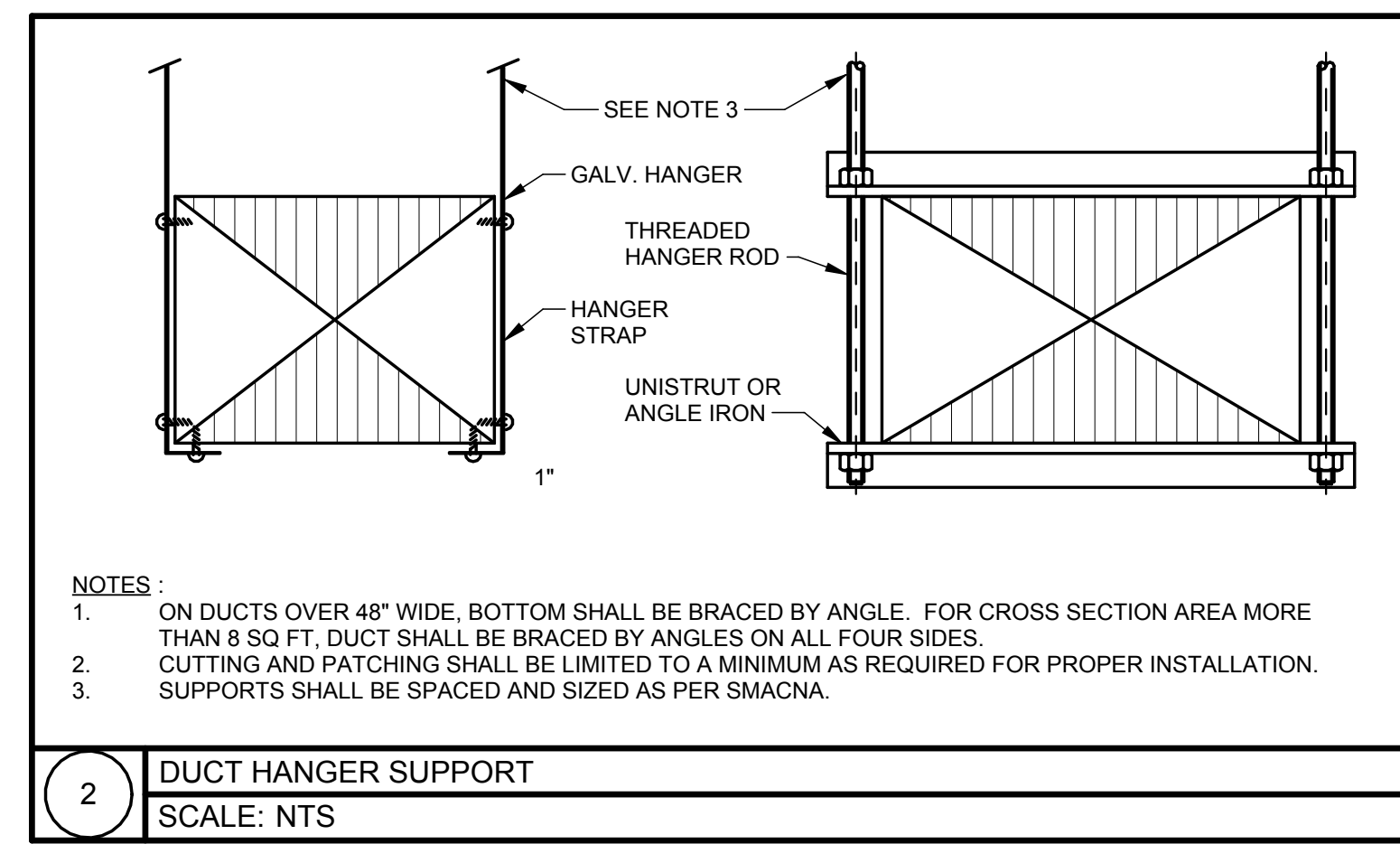
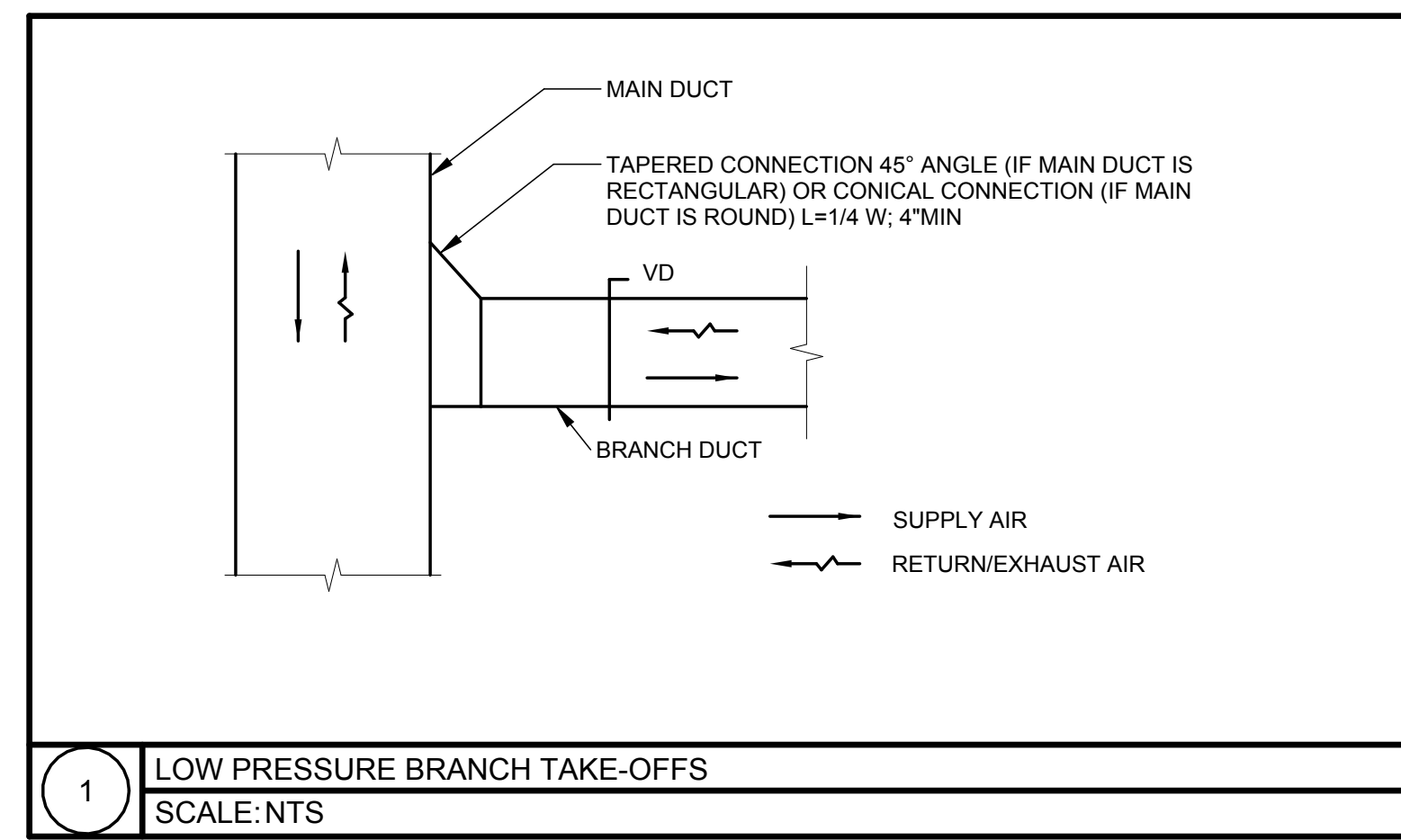
Drawing Sheet Title:
HVAC PIPING - LEVEL 1

Drawing Sheet Number:
M-301

Owner's Branch No.:
134



General Notes:



Project Title:
Fidelity INVESTMENTS
 Fidelity Real Estate Company
 245 Summer Street
 Boston, MA 20110

7171 E. Paradise Lane
 Suite R-120
 Scottsdale, AZ 85254

Number	Description	Date
1	Issued for Permit & Construction	23 DEC 24

Key Plan:

Project No.: C0115.00
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Drawing Sheet Title:
HVAC DETAILS

Drawing Sheet Number:
M-501

Owner's Branch No.:
 134

HVAC - ENERGY RECOVERY UNIT

Table with columns for UNIT NUMBER, LOCATION, SUPPLY FAN DATA, EXHAUST FAN DATA, SUMMER DATA, WINTER DATA, FILTER DATA, RETURN DATA, COOLING COIL, COIL DATA, HEATING COIL, ELECTRICAL DATA, and REMARKS.

HVAC - VRF OUTDOOR UNIT

Table with columns for UNIT NUMBER, LOCATION, COOLING DATA, HEATING DATA, COMPRESSOR, AHRI RATINGS, ELECTRICAL DATA, WEIGHT, and REMARKS.

HVAC - VRF INDOOR UNIT

Table with columns for UNIT NUMBER, SERVICE, COOLING DATA, HEATING DATA, ELECTRICAL DATA, WEIGHT, and REMARKS.

HVAC - VRF BRANCH CIRCUIT CONTROLLER

Table with columns for UNIT NUMBER, SERVICE, LOCATION, ELECTRICAL DATA, NUMBER OF PORTS, WEIGHT, and REMARKS.

HVAC - FAN

Table with columns for UNIT NUMBER, SERVICE, LOCATION, FAN DATA, MOTOR DATA, ELECTRICAL DATA, and REMARKS.

HVAC - DX SPLIT SYSTEM UNIT

Table with columns for UNIT NUMBER, SERVICE, TYPE, FAN DATA, COOLING DATA, OUTDOOR UNIT, ELECTRICAL DATA, and REMARKS.

Table for VENTILATION CALCULATION - 2021 ARIZONA STATE MECHANICAL CODE TABLE 403.3.1.1, showing ZONE, ROOM, ROOM TYPE, AREA, OCCUPANT DENSITY, PEOPLE, CFM/PERSON, CFM/SQ FT, AIR DISTRIBUTION EFFECTIVENESS, MIN. VENTILATION AIRFLOW, and AIRFLOW USED.

Table for EXHAUST CALCULATION, showing Room, Area (SQ.FT), Fixtures, CFM/Fixture, CFM/SF, Minimum Airflow (CFM), and Airflow Used (CFM).

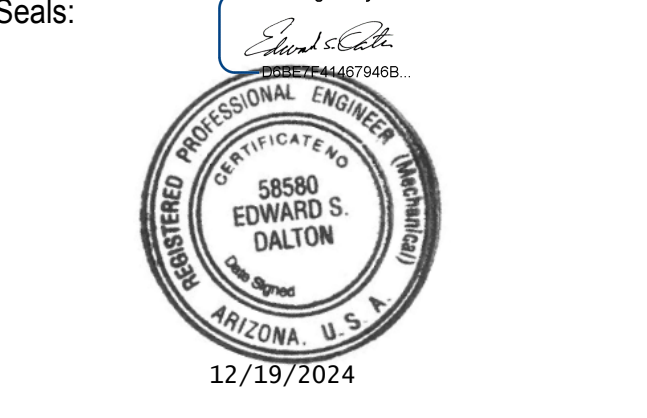
DIFFUSER, GRILLE & REGISTER SCHEDULE

Table for DIFFUSER, GRILLE & REGISTER SCHEDULE, including SYMBOL, NECK SIZE/RUNOUT SIZE, FACE SIZE, SELECTION RANGE, SERVICE, MAXIMUM AIR FLOW, MAXIMUM N.C. LEVEL, MOUNTING, ACCESSORIES, MANUFACTURER MODEL NUMBER, and REMARKS.



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P 215.569.2900 F 215.569.5963 W www.jacobs.com Fidelity's Engineering Consultant



R.G. Vanderweil Engineers, LPP 274 Summer Street Boston, MA 02210 P 617-423-7423 F 617-423-7501 W www.vanderweil.com



General Notes: 1. INDOOR UNIT AND OUTDOOR UNIT SHALL BE THE SAME MANUFACTURER 2. OUTDOOR UNIT POWER SUPPLY FEEDS INDOOR UNIT 3. PROVIDE COMPLETE REFRIGERATION SYSTEM SIZED AND INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.



Fidelity Real Estate Company 245 Summer Street Boston, MA 20110

7171 E. Paradise Lane Suite R-120 Scottsdale, AZ 85254

Table with columns for Number, Description, and Date, showing permit and construction dates.

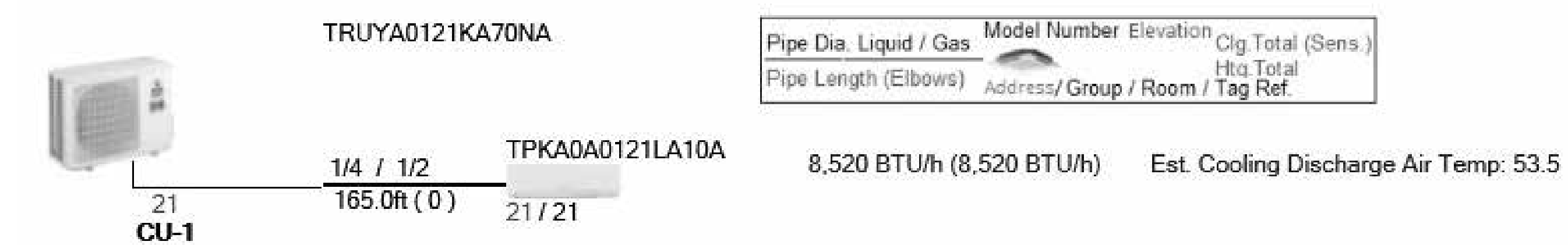
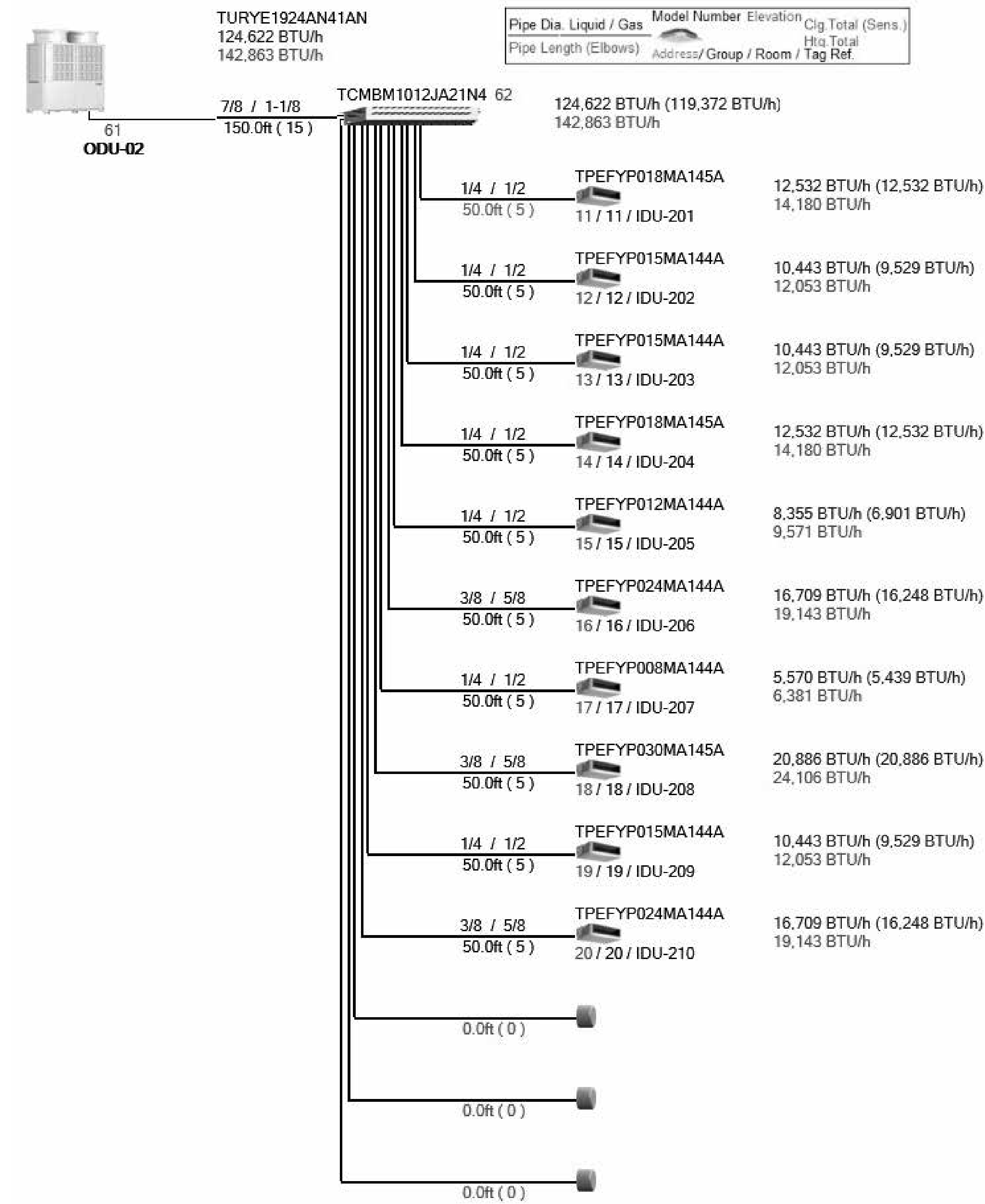
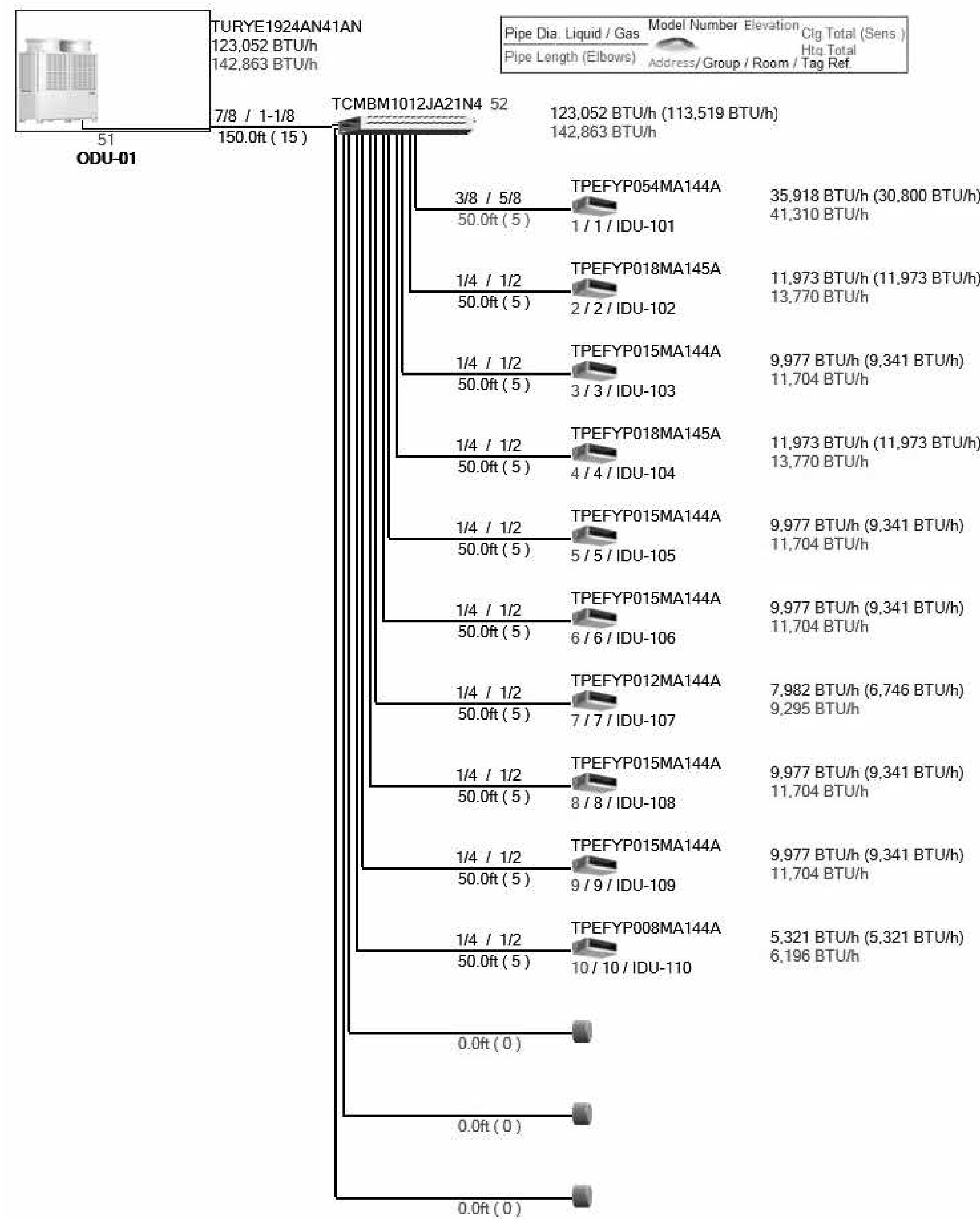
Key Plan:

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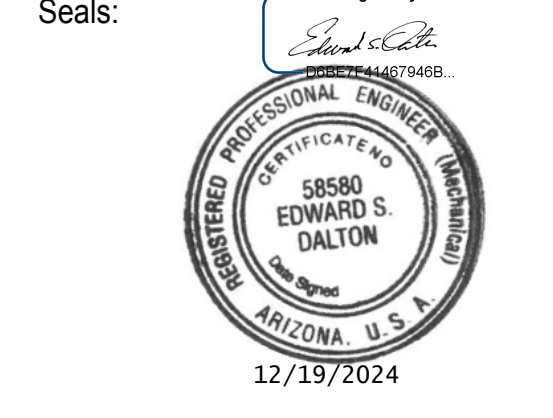
Drawing Sheet Title: HVAC SCHEDULES

Drawing Sheet Number: M-601

Owner's Branch No.: 134



Number	Description	Date
1	Issued for Permit & Construction	23 DEC 24



CONTROLS LEGEND

Table with columns: FIRST LETTER(S), PROCESS OR INITIATING VARIABLE, MODIFIER, READOUT OR PASSIVE FUNCTION, OUTPUT FUNCTION, MODIFIER. Lists symbols for variables like ANALYSIS, BURNER FLAME, USERS CHOICE, etc.

(*) WHEN USED, EXPLANATION IS SHOWN ADJACENT TO INSTRUMENT SYMBOL. SEE ABBREVIATIONS AND LETTER SYMBOLS. EXAMPLE: PT=PRESSURE TRANSMITTER HS=HAND SWITCH

HVAC CONTROL SYSTEM NOTES - GENERAL

- GENERAL REQUIREMENTS: 1. THE DESIGN INTENT IS FOR ALL CONTROLS TO BE STANDALONE WITHOUT A CENTRAL DDC SYSTEM. SEQUENCES SHOWN ARE PROVIDED TO DESCRIBE DESIGN INTENT. 2. SEQUENCES OUTLINED (UNLESS OTHERWISE SPECIFIED) SHALL BE PERFORMED BY STANDALONE, MANUFACTURER PROVIDED CONTROLLERS. 3. ALL HVAC EQUIPMENT SHALL BE STARTED/ENABLED AND STOPPED/DISABLED AS DESCRIBED IN THE SEQUENCES.

SENSOR LEGEND

- REFER TO PLANS FOR SPACE TEMPERATURE, HUMIDITY, PRESSURE AND CARBON DIOXIDE SENSORS/TRANSMITTERS INDICATED BY THE FOLLOWING SYMBOLS: TEMPERATURE SENSOR/TRANSMITTER = (T) HUMIDITY SENSOR/TRANSMITTER = (H)

GENERAL INSTRUMENT/FUNCTION SYMBOLS

Diagram showing control device or instrument tag symbols, modifier symbols (OC, OO, SS, PAL, PAH, TSL, TSH, MAL, MAH, R), and sample device tags (R, XS, MAH, MT, XX).

- NOTES: 1. INSTRUMENTATION IDENTIFICATION TAGS SHOWN ON THE ENCLOSED CONTROL DRAWINGS ARE INTENDED TO BE SPECIFIC FOR EACH SEQUENCE. NO ATTEMPT HAS BEEN MADE TO COORDINATE SEQUENTIAL TAGS IN ALL SEQUENCES AS THIS EFFORT WOULD NOT AID IN THE UNDERSTANDING OF THE DESIGN INTENT.

EQUIPMENT SYMBOLS

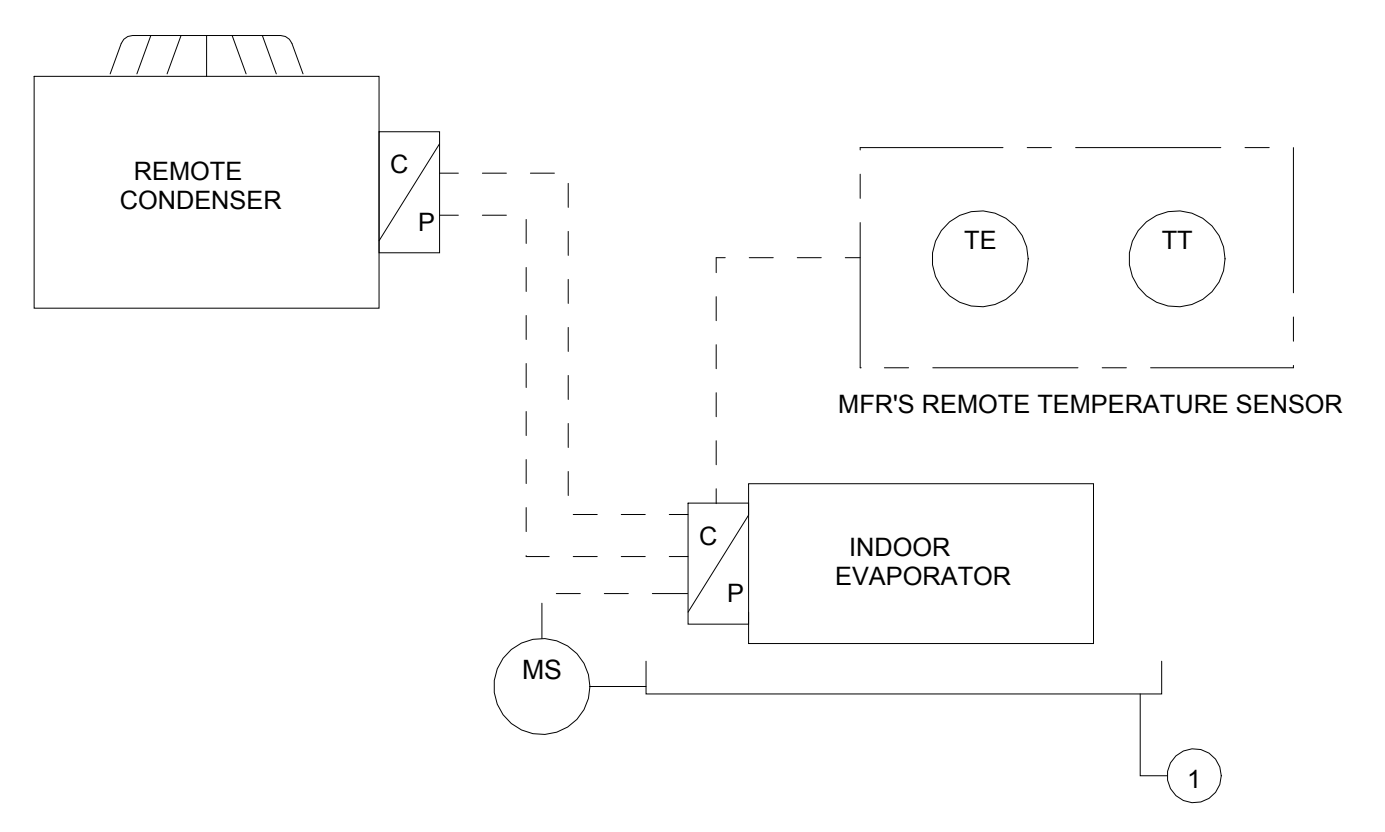
Table with columns: SYMBOL, DESCRIPTION, SYMBOL, DESCRIPTION, SYMBOL, DESCRIPTION. Lists symbols for centrifugal fan, pump, hands-off automatic control station, filter bank, motor starter, etc.

KEY NOTES:

- (1) ALL COOLING COILS ARE PROVIDED WITH A SECONDARY DRAIN PAN (NON-PIPED) DETECTION OF WATER (MS-1) SHOULD DE-ENERGIZE UNIT.

SEQUENCE OF OPERATIONS

- A. GENERAL 1. THE AC UNITS SHALL BE CONTROLLED BY THE WALL MOUNTED SEVEN DAY PROGRAMMABLE THERMOSTAT PROVIDED BY THE AC UNIT MANUFACTURER AND TIE INTO THE VRF CONTROLLER (SAME MANUFACTURER).



1 SPLIT AC UNIT CONTROLS CONTROL DIAGRAM & SEQUENCE

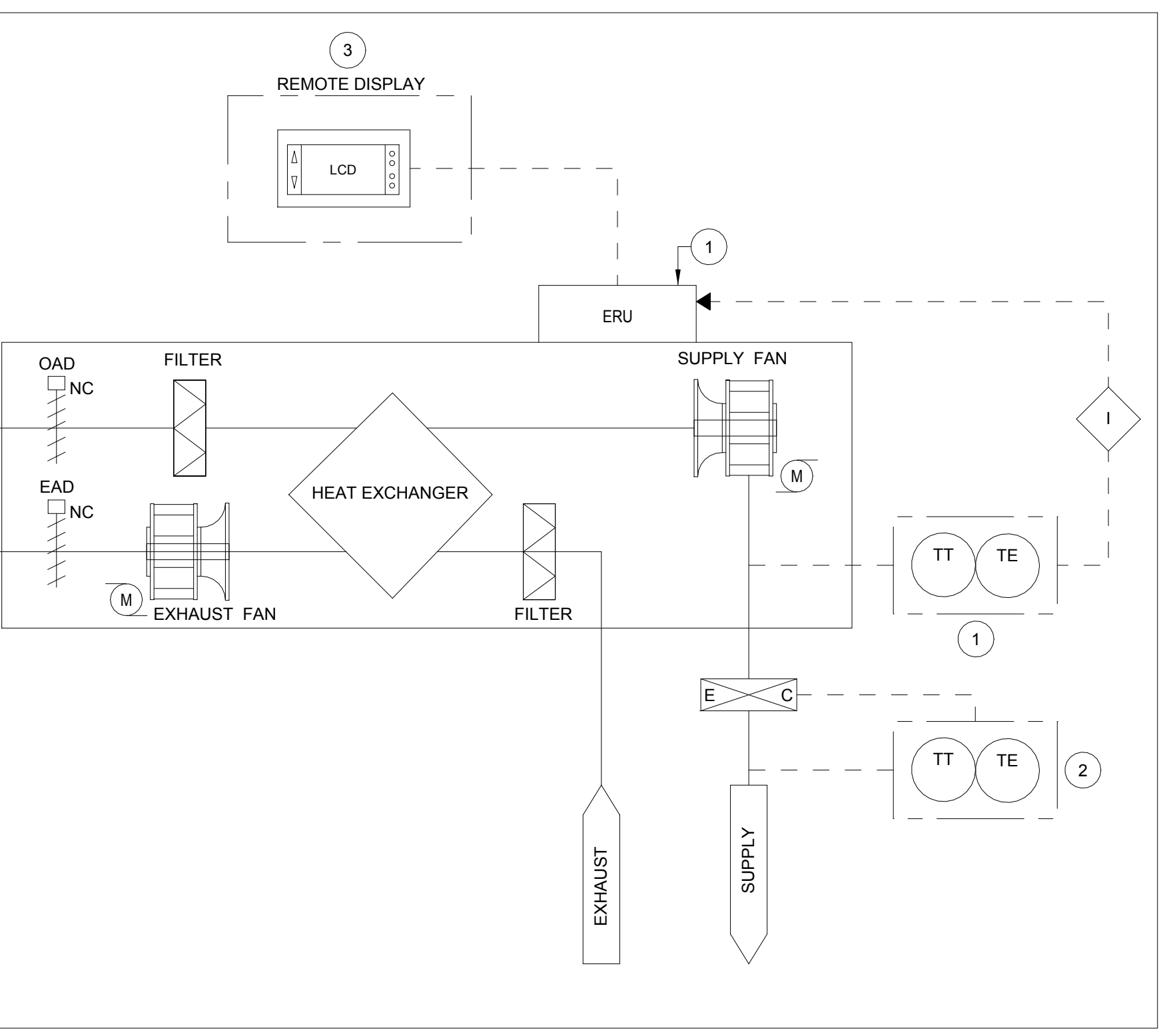
KEY NOTES:

- (1) VRF UNIT CONTROLLER/PROGRAMMABLE LCD THERMOSTAT AND LEAK DETECTION. THE CONTROLLER/THERMOSTAT SHALL BE PROGRAMMED SCHEDULING FOR OCCUPIED AND UNOCCUPIED HOURS. (2) PROVIDE WATER DETECTION SWITCH AND HARD WIRE TO UNIT STARTER. DETECTION OF WATER SHALL DE-ENERGIZE UNIT & CLOSE REFRIGERATION VALVE.

SEQUENCE OF OPERATION FOR VRF SYSTEMS:

INDOOR UNIT SEQUENCE OF OPERATIONS:

- A. ON/OFF CONTROL: THE INDOOR UNITS WILL BE COMMANDED ON/OFF AT THE THERMOSTAT/CONTROLLER PER THE OCCUPANCY SCHEDULE. IF ALL INDOOR UNITS ARE OFF, THE OUTDOOR UNIT SHALL TURN OFF. WITH THE NIGHT SETBACK FUNCTION/MODE, THE SYSTEM SHALL CYCLE ON DURING UNOCCUPIED PERIODS AS NEEDED TO MAINTAIN UNOCCUPIED TEMPERATURE SET POINT. THE CONTROLLER/THERMOSTAT SHALL BE PROGRAMMED FOR TEMPERATURE SET POINTS AND OCCUPIED/UNOCCUPIED MODES WITH OVERRIDES AS NOTES ON SHEET M-801. DURING OCCUPIED MODE THE FAN SHALL RUN CONTINUOUSLY. B. MORNING WARM-UP/COOL-DOWN: THE VRF SYSTEM SHALL SWITCH TO THE OCCUPIED SETPOINTS EACH MORNING 2 HOURS (ADJ.) BEFORE THE START OF THE BUILDING SET OCCUPIED START TIME. DURING THIS PERIOD THE SYSTEM SHALL CYCLE ON/OFF AS NEEDED TO MAINTAIN THE TEMPERATURE SET POINT.



1 ENERGY RECOVERY UNIT CONTROLS CONTROL DIAGRAM & SEQUENCE

KEY NOTES:

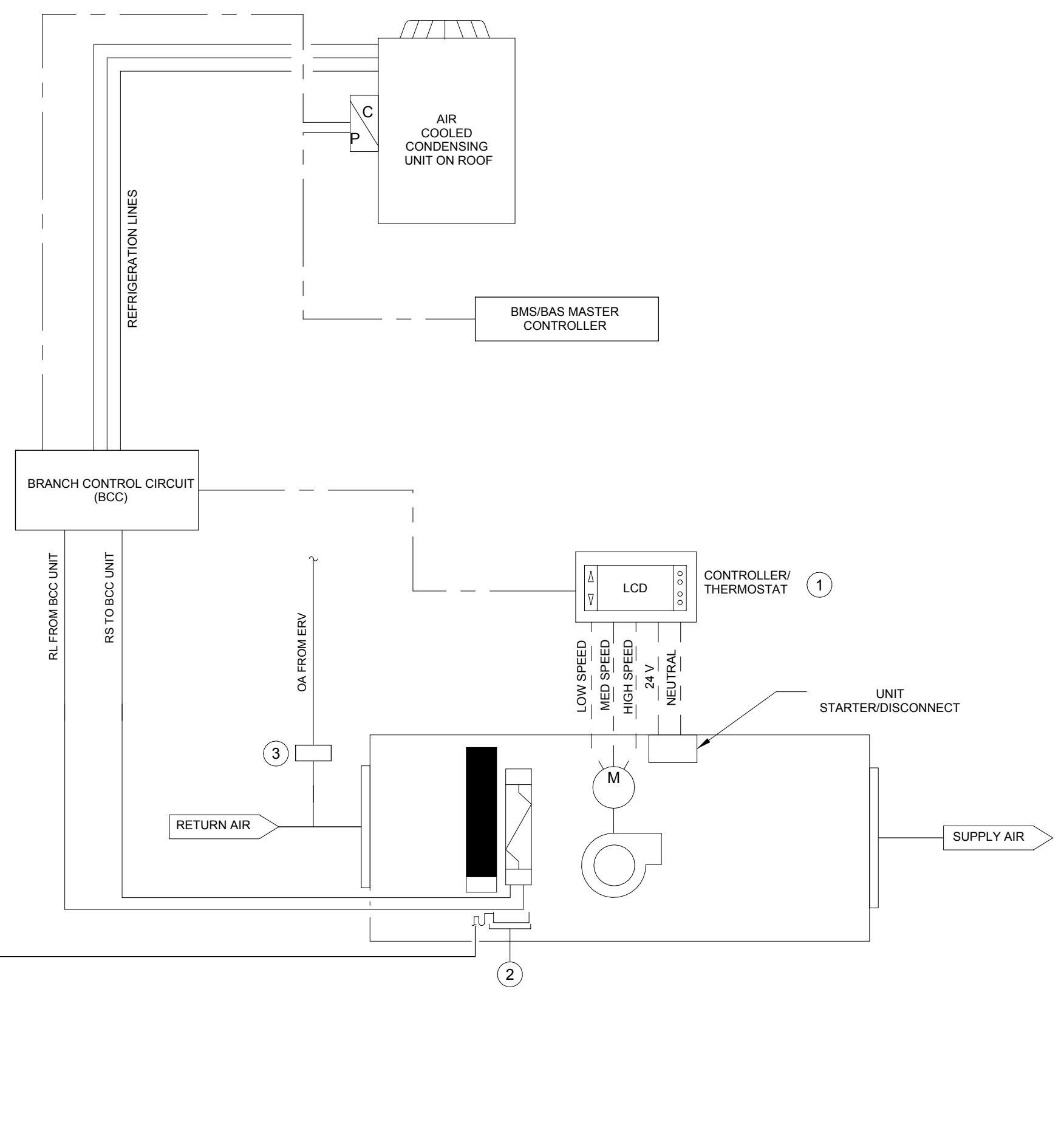
- (1) PROVIDE STANDALONE CONTROLS. UNIT SHALL OPERATE THROUGH ITS OWN MICROPROCESSOR CONTROLLER. OCCUPIED AND UNOCCUPIED CYCLES SHALL BE CONTROLLED BY TIMECLOCK. SEQUENCE PROVIDED TO DESCRIBE THE DESIGN INTENT. (2) THE DUCT HEATER SHALL BE CONTROLLED BY MANUFACTURER PROVIDED SENSOR. HEATER SHALL HAVE SCR CONTROL. (3) PROVIDE WITH REMOTE DISPLAY. LOCATE REMOTE DISPLAY IN LAN ROOM. COORDINATE FINAL LOCATION WITH FIDELITY.

NORMAL OPERATION

- 1. THE ERV SHALL OPERATE CONTINUOUSLY DURING OCCUPIED MODE. 2. AT THE START OF OCCUPIED MODE, THE EXHAUST AIR DAMPER (EAD) AND OUTSIDE AIR DAMPER (OAD) SHALL OPEN. THE SUPPLY AND EXHAUST FANS SHALL START AND RUN CONTINUOUSLY. 3. AT THE START OF UNOCCUPIED MODE, THE SUPPLY AND EXHAUST FANS SHALL TURN OFF. THE EXHAUST AIR DAMPER (EAD) AND OUTSIDE AIR DAMPER (OAD) SHALL CLOSE.

SAFETIES AND MONITORING

- 1. IF THE DISCHARGE TEMPERATURE LEAVING THE ERV DROPS BELOW 45 F, THE UNIT SHALL BE SHUTDOWN.



2 VRF SYSTEM CONTROLS CONTROL DIAGRAM

Table with columns: Number, Description, Date. Row 1: 1, Issued for Permit & Construction, 23 DEC 24.

Key Plan:

GENERAL ABBREVIATIONS table listing symbols and their corresponding terms (e.g., A AMPERES, ADA AMERICANS WITH DISABILITIES ACT).

- GENERAL NOTES: 1. DRAWINGS ARE DIAGRAMMATIC. REFER TO THE ARCHITECTS PLANS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF EQUIPMENT...

WIRING DEVICES LEGEND table listing symbols for receptacles, switches, and other wiring devices.

POWER RISER DIAGRAM LEGEND table listing symbols for meter, panelboard, transformer, and other power riser components.

LEGEND NOTES table containing general notes and an ELECTRICAL SHEET LIST table.

FURNITURE DEVICE LEGEND table listing symbols for furniture feed, floor box, and reach-in floor box.

LIGHTING FIXTURE LEGEND table listing symbols for light fixture, lighting fixture, and illuminated exit sign.

EQUIPMENT CONNECTION LEGEND table listing symbols for junction and/or pull box, ground conductors, and other equipment connections.

LIGHTING CONTROL LEGEND table listing symbols for line voltage on/off toggle switch, low voltage on/off switch, and other lighting controls.

EXISTING EQUIPMENT LEGEND table listing symbols for adjacent equipment, removed equipment, and relocated equipment.

WINDOW SHADE LEGEND table listing symbols for motorized window shade furnished and installed by division 12.

BUILDING GROUNDING GRID LEGEND table listing symbols for building system ground bus, supplemental grounding electrode, and telecom grounding electrode.

CIRCUITRY, RACEWAYS AND FEEDERS LEGEND table listing symbols for homerun to panel, homerun to panel with breaker, and other circuitry symbols.

NOTES: 1. ALL LIGHTING CONTROLS AND RELAYS FOR ENERGY RECEPTACLES SHALL BE LABELED ON GRID WITH COLORED DOTS TO IDENTIFY LOCATION.

General Notes:



7171 E. Paradise Lane Suite R-120 Scottsdale, AZ 85254

Number Description Date table with one row: 1 Issued for Permit & Construction 23 DEC 24

Key Plan: Project North True North

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Drawing Sheet Title: ELECTRICAL LEGEND & GENERAL NOTES

Drawing Sheet Number: E-001

Owner's Branch No.: 134

Table with 1 column and 1 row. Title: 26600 SHORT CIRCUIT & ARC FLASH STUDY. Content: PART 1 - GENERAL. 1.1 SUMMARY. A. PROVIDE A COMPUTER BASED, FAULT CURRENT ARC FLASH AND OVERCURRENT PROTECTIVE DEVICES COORDINATION STUDIES. B. THE STUDIES SHALL BE SUBMITTED TO THE DESIGN ENGINEER PRIOR TO RECEIVING FINAL APPROVAL...

Table with 1 column and 1 row. Title: 260100 BASIC ELECTRICAL REQUIREMENTS. Content: PART 1 - GENERAL. 1.1 REFERENCES. A. THE WORK REQUIREMENTS DESCRIBED WITHIN DIVISION 20 SPECIFICATION SECTION "COMMON ELECTRICAL ELECTRICAL REQUIREMENTS" FORM COMPARE WITH THE REQUIREMENTS TO THE SCOPE OF WORK CONTAINED WITHIN DIVISION 23. REFER TO HVAC DRAWINGS FOR DIVISION 20 REQUIREMENTS...

Table with 1 column and 1 row. Title: 260600 GROUNDING AND BONDING. Content: PART 1 - GENERAL. 1.1 GROUNDING. A. PROVIDE EQUIPMENT GROUNDING SYSTEM AS PER NEC. B. SYSTEM SHALL MEET NEC REQUIREMENTS, MODIFIED AS SHOWN ON DRAWINGS AND AS SPECIFIED...

Table with 1 column and 1 row. Title: 260943 LIGHTING CONTROL SYSTEM FUNCTIONAL TESTING. Content: PART 1 - GENERAL. 1.1 SUMMARY. A. LIGHTING SYSTEM FUNCTIONAL TESTING. CONTROLS FOR AUTOMATIC LIGHTING SYSTEMS SHALL COMPLY WITH THIS SECTION...

Table with 1 column and 1 row. Title: 261200 RACEWAY & WIRING. Content: PART 1 - GENERAL. 1.1 RACEWAYS. A. RIGID METALLIC CONDUIT (RMC) AND ELECTRICAL METALLIC TUBING (EMT) SHALL BE OF ZINC-COATED WITH THIS SECTION. B. FLEXIBLE METALLIC CONDUIT SHALL BE GALVANIZED STEEL, SPIRAL WRAPPED TUBULAR OR CONDUIT (GREENFIELD)...

Table with 1 column and 1 row. Title: 264400 PANELBOARDS. Content: PART 1 - GENERAL. 1.1 CONSTRUCTION. A. PROVIDE UL-LISTED SAFETY DEAD-FRONT POWER PANELBOARDS WHERE SHOWN ON DRAWINGS AND AS SCHEDULED. PANELBOARDS SHALL MEET OR EXCEED REQUIREMENTS OF NEMA STANDARDS PUBLICATION PB-1 AND UL 80 AND 47...

Table with 1 column and 1 row. Title: 262200 DRY TYPE TRANSFORMERS. Content: ACCEPTABLE MANUFACTURERS ARE SQUARE D AND GENERAL ELECTRIC. DESIGN, MANUFACTURE AND TESTING OF TRANSFORMERS SHALL MEET THE REQUIREMENTS OF NEMA TP-1. TRANSFORMER WINDINGS SHALL BE COPPER WITH CONTINUOUS WOUND CONSTRUCTION...

Table with 1 column and 1 row. Title: 261300 BOXES AND DEVICES. Content: PART 1 - GENERAL. 1.1 OUTLET BOXES. A. OUTLET BOXES ON CONCEALED WORK SHALL BE AT LEAST 4" SQUARE OR OCTAGONAL GALVANIZED PRESSED STEEL WITH PLASTER RINGS AS REQUIRED...

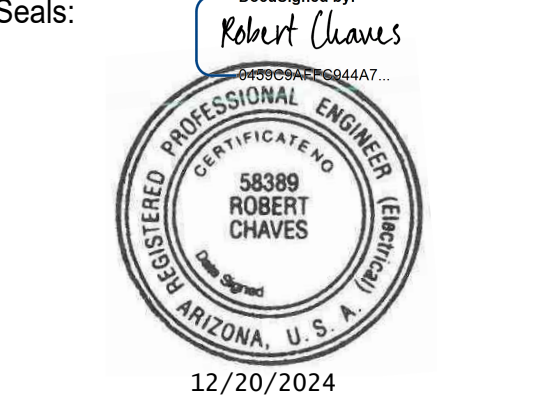
Table with 1 column and 1 row. Title: 261400 SAFETY DISCONNECT SWITCHES. Content: PART 1 - GENERAL. 1.1 SWITCHES. A. PROVIDE UL-LISTED QUICK-BREAK SAFETY SWITCHES. CURRENT-CARRYING PARTS SHALL BE HIGH-CONDUCTIVITY COPPER. CONTACTS SHALL BE SILVER-TUNGSTEN OR PLATED...

Table with 1 column and 1 row. Title: 265100 LIGHTING. Content: PART 1 - GENERAL. 1.1 SUMMARY. A. PROVIDE LIGHTING FIXTURES, EQUIPMENT AND COMPONENTS WHERE SHOWN ON DRAWINGS. AS LISTED IN THE LIGHTING FIXTURE SCHEDULE AND AS SPECIFIED WIRED AND ASSEMBLED. PROVIDE APPROVED LIGNER CANOPIES, HANGERS, AND OTHER APPURTENANCES AS REQUIRED...

Project Title: Fidelity Investments. Fidelity Real Estate Company 245 Summer Street Boston, MA 20110. 7171 E. Paradise Lane Suite R-120 Scottsdale, AZ 85254

Table with 3 columns: Number, Description, Date. Row 1: 1 Issued for Permit & Construction 23 DEC 24.

Key Plan: Project North True North [Compass]



General Notes:

- NOTES
- A. FOR ELECTRICAL LEGEND AND GENERAL NOTES, REFER TO DRAWING E-001.
 - B. FOR LIGHTING FIXTURE SCHEDULE, REFER TO DRAWING E-702.
 - C. FOR EXACT LOCATIONS, QUANTITIES AND MOUNTING HEIGHTS OF ALL LIGHTING FIXTURES, REFER TO ARCHITECT'S REFLECTED CEILING PLANS AND ELEVATIONS.
 - D. PROVIDE METAL BARRIERS IN ALL MULTI-GANG SWITCH LOCATIONS.
 - E. ALL EXIT SIGNS SHALL BE CONNECTED TO A CONSTANT UNSWITCHED SOURCE ON THE CLOSEST BRANCH LIGHTING CIRCUIT.
 - F. CIRCUIT NUMBERS ARE FOR DESCRIPTIVE PURPOSES ONLY. EXACT NUMBERS SHALL BE DETERMINED IN THE FIELD.
 - G. ALL OCCUPANCY SENSOR LOCATIONS ARE APPROXIMATE. REFER TO MANUFACTURER'S INSTALLATION REQUIREMENTS PRIOR TO INSTALLATION.
 - H. CEILING MOUNTED OCCUPANCY SENSORS SHALL BE LOCATED A MINIMUM OF FOUR FEET FROM HVAC SUPPLY VENTS.
 - I. CONTRACTOR IS RESPONSIBLE FOR OCCUPANCY SENSOR PROPER SENSITIVITY & TIME DELAY SETTINGS (FOR NON-ADAPTIVE PRODUCTS) RECOMMENDED PLACEMENT, AND FIELD VERIFICATION OF CIRCUITS WITHIN RESPECT TO POWER PLACEMENT.
 - J. OCCUPANCY SENSORS MOUNTED OVER THE DOOR MUST BE PLACED ONE FOOT INSIDE THE THRESHOLD.

- KEYNOTES
- 1. FIXTURES INDICATED AS EMERGENCY SHALL OPERATE WITH DIMMING ZONE CONTROLS. UPON LOSS OF NORMAL POWER, THE FIXTURE SHALL TURN 100% ON VIA EMERGENCY LIGHTING TRANSFER SWITCH (ELTS) LEGRAND MODEL ELCTU OR APPROVED EQUAL CONNECTED TO INVERTER 'INV' IN THE ELECTRIC ROOM 134 OUTPUT CIRCUIT.
 - 2. ACCENT LIGHT 'A' IN OFFICES TO BE CONTROLLED WITH CORRIDOR/LOBBY ZONE NEARBY. OFFICE WALL SWITCH SHALL CONTROL RECESSED DOWNLIGHTS AND WALL WASHERS ONLY. REFER TO PLAN ZONE INDICATORS 'a,b,c' ETC.
 - 3. INVERTER ISOLITE MODEL ESMIN OR EQUIVALENT 550VA. ALL EMERGENCY LIGHTING AND EXIT SIGNS SHALL BE CONNECTED TO 'INV' VIA BRANCH CIRCUIT ELTS DEVICES. SEE NOTE 1.

LIGHTING CONTROL SCHEDULE: LCP-1

RELAY #	ZONE	VOLTAGE	PANEL	CKT #	DESCRIPTION
LCP-1	-	120	R1	4	EXTERIOR SIGNAGE S1
LCP-1	-	120	R1	4	EXTERIOR SIGNAGE S2
LCP-1	-	120	R1	65	EXTERIOR SIGNAGE S3
LCP-1	-	120	R2	63	EXTERIOR SIGNAGE S4
LCP-1	-	120	R2	63	EXTERIOR SIGNAGE S5

LIGHTING CONTROL INTENT SCHEDULE

DESIGNATION	ROOM TYPE	CONTROLS	SEQUENCE
A	VESTIBULE/LOBBY BYWAITING	CONTROL PANEL, TIME CLOCK WITH SCHEDULE CEILING MOUNTED OCCUPANCY SENSORS (DAYLIGHT HARVESTING) DOWNLIGHTS ARE 0-10V DIMMING --LMCP8 & NECY MVOLT ENC BW GFXX OR --ARP INTEND8 NLT 8FCR MVOLT SC SM DTC SENSORS --NCM PDT 10 RJB, NCM PDT 10 ADCX RJB SENSORS NOTE PROVIDE PHASE DIMMING POWER PACK FOR 'B' PENDANT FIXTURE FOR PROGRAMMABILITY OF ON/OFF AND DIMMING CONTROL AND SCHEDULING.	TIMECLOCK SCHEDULE ON: 06:00 OFF: 19:00 OUTSIDE OF NORMAL OPERATING HOURS TIMECLOCK OVERRIDE AUTOMATIC ON WITH OCCUPANCY, AUTOMATIC OFF AFTER 20 MINUTE DELAY UPON VACANCY.
B	CORRIDORS	CONTROL PANEL, TIME CLOCK WITH SCHEDULE CEILING MOUNTED OCCUPANCY SENSORS (DAYLIGHT HARVESTING) LCP --LMCP8 & NECY MVOLT ENC BW GFXX OR --ARP INTEND8 NLT 8FCR MVOLT SC SM DTC SENSORS --NCM PDT 9 RJB, NCM PDT 9 ADCX RJB SENSORS	TIMECLOCK SCHEDULE ON: 06:00 OFF: 19:00 OUTSIDE OF NORMAL OPERATING HOURS TIMECLOCK OVERRIDE AUTOMATIC ON WITH OCCUPANCY, AUTOMATIC OFF AFTER 20 MINUTE DELAY UPON VACANCY.
C	SINGLE RESTROOMS, STORAGE, MPR, LOCKERS, JANITOR	LOCAL OCCUPANCY WALL SWITCH SENSOR TYPICAL AESTHETIC WALL SENSOR SWITCH -- NWSXA PDT LV WH JANITOR/STORAGE WALL SENSOR SWITCH -- WSKA PDT WH LOCAL VACANCY WALL SWITCH SENSOR TYPICAL WALL SENSOR SWITCH WITH DIMMING -- NWSXA PDT LV DX WH NOTE	AUTOMATIC ON WITH OCCUPANCY, AUTOMATIC OFF AFTER 20 MINUTE DELAY UPON VACANCY MANUAL ON/OFF OVERRIDE MANUAL ON, AUTOMATIC OFF AFTER 20 MINUTE DELAY UPON VACANCY MANUAL ON/OFF OVERRIDE MANUAL RAISE/LOWER DIMMING
D	PRIVATE OFFICES	CONTROL PANEL, TIME CLOCK WITH SCHEDULE LOCAL LOW VOLTAGE SWITCH WITH DIMMING NOTE: WHERE APPLICABLE 'a' INDICATES CONTROL ZONES, WHERE APPLICABLE CEILING MOUNTED OCCUPANCY SENSORS (DAYLIGHT HARVESTING) SWITCHES -- NPODMA DX WH SENSORS -- NCM PDT 9 RJB, NCM PDT 9 ADCX RJB SENSORS NOTE: WHERE APPLICABLE PROVIDE PHASE DIMMING POWER PACK FOR 'A' PENDANT FIXTURE FOR PROGRAMMABILITY OF ON/OFF AND DIMMING CONTROL AND SCHEDULING.	MANUAL ON, AUTOMATIC OFF AFTER 20 MINUTE DELAY UPON VACANCY MANUAL ON/OFF OVERRIDE MANUAL RAISE/LOWER DIMMING
E	MEETING & OPERATIONS	CONTROL PANEL, TIME CLOCK WITH SCHEDULE LOCAL LOW VOLTAGE SWITCH WITH DIMMING NOTE: WHERE APPLICABLE 'a' INDICATES CONTROL ZONES, WHERE APPLICABLE CEILING MOUNTED OCCUPANCY SENSORS (DAYLIGHT HARVESTING) SWITCHES -- NPODMA DX WH SENSORS -- NCM PDT 9 RJB, NCM PDT 9 ADCX RJB SENSORS NOTE: WHERE APPLICABLE PROVIDE PHASE DIMMING POWER PACK FOR 'A' PENDANT FIXTURE FOR PROGRAMMABILITY OF ON/OFF AND DIMMING CONTROL AND SCHEDULING.	MANUAL ON, AUTOMATIC OFF AFTER 20 MINUTE DELAY UPON VACANCY MANUAL ON/OFF OVERRIDE MANUAL RAISE/LOWER DIMMING
F	ELECTRIC/LAN ROOMS	LOCAL SWITCH -- NPODMA WH OR -- STANDARD 120V 20A SINGLE POLE TOGGLE	MANUAL ON/OFF OPERATION ROOMS NOT ON AUTOMATIC CONTROL FOR SAFETY CONSIDERATION



Fidelity Real Estate Company 245 Summer Street Boston, MA 20110

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Number	Description	Date
1	Issued for Permit & Construction	23 DEC 24

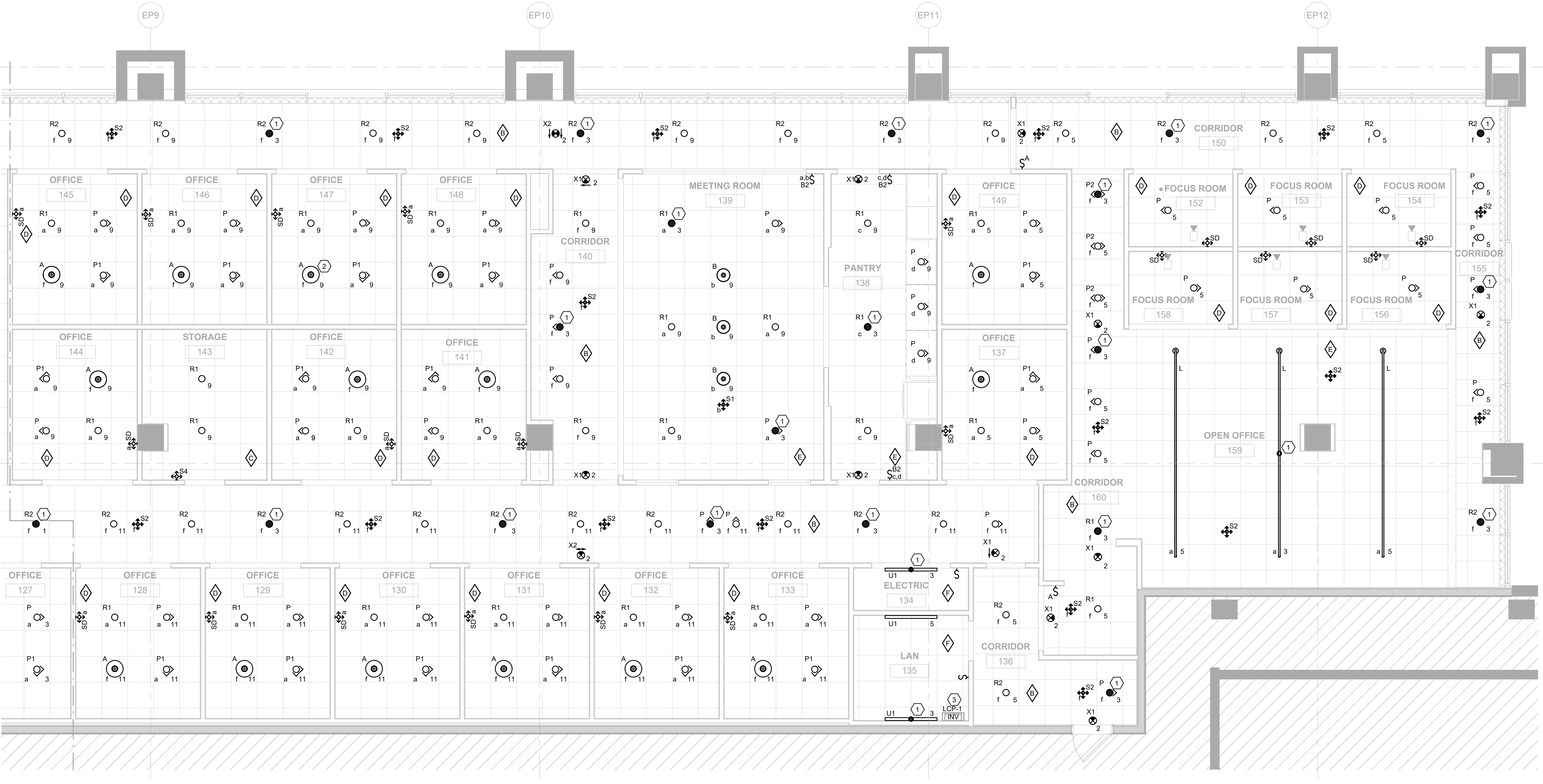
Key Plan: Project North & True North

Project No.: C0115.00 Copyright: 2024 Jacobs Engineering Group, Inc.

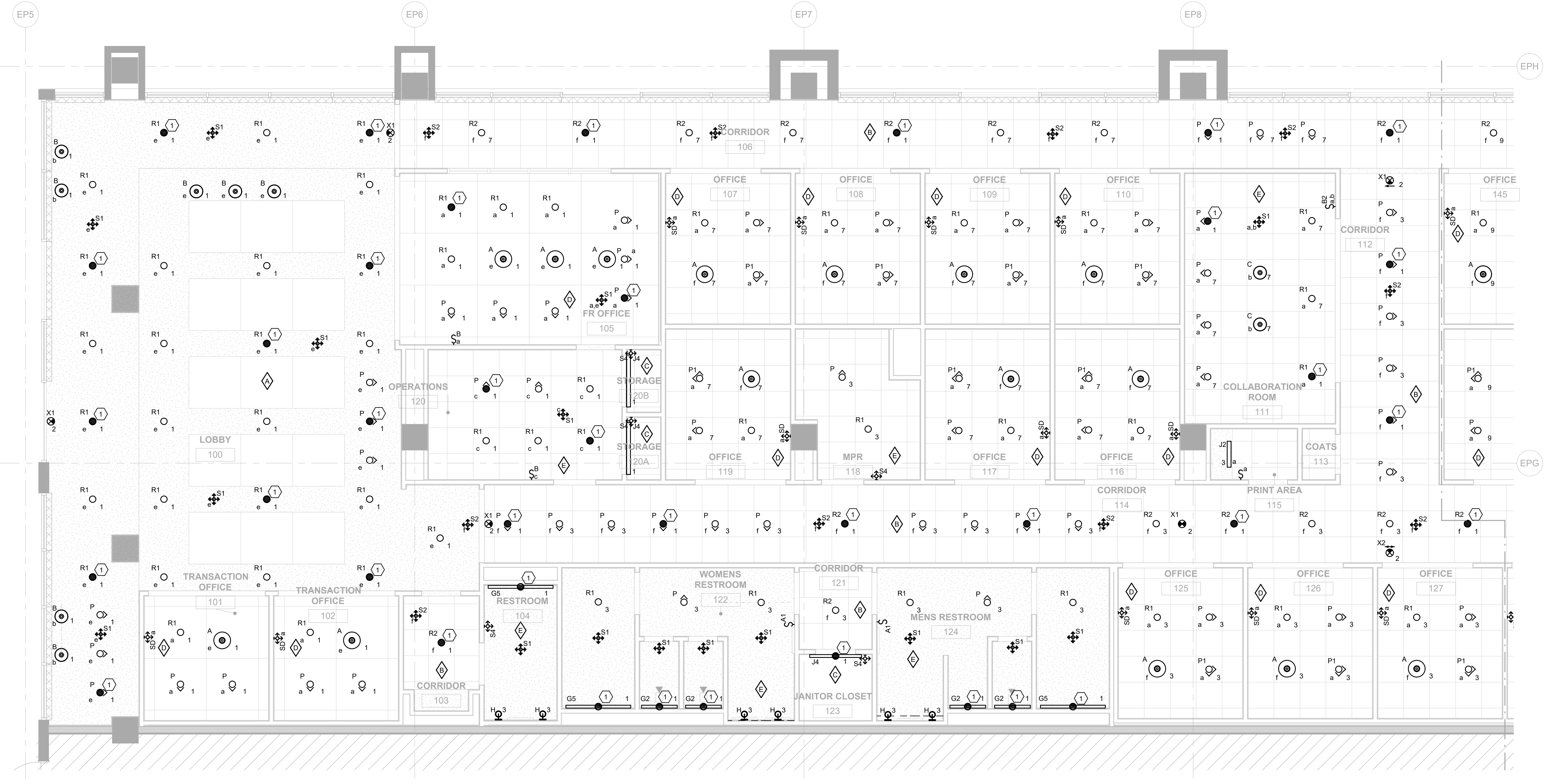
Drawing Sheet Title: LIGHTING - LEVEL 1

Drawing Sheet Number: E-201

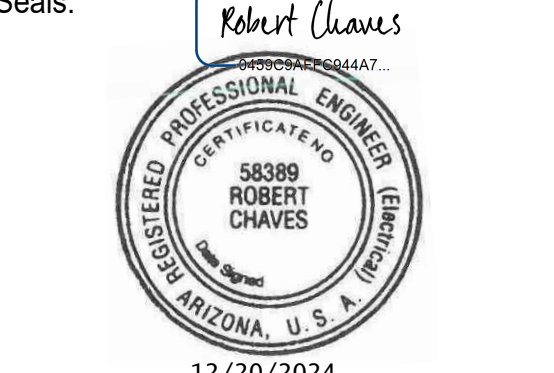
Owner's Branch No.: 134



2 LIGHTING - LEVEL 1 EAST 1/4" = 1'-0"



1 LIGHTING - LEVEL 1 WEST 1/4" = 1'-0"

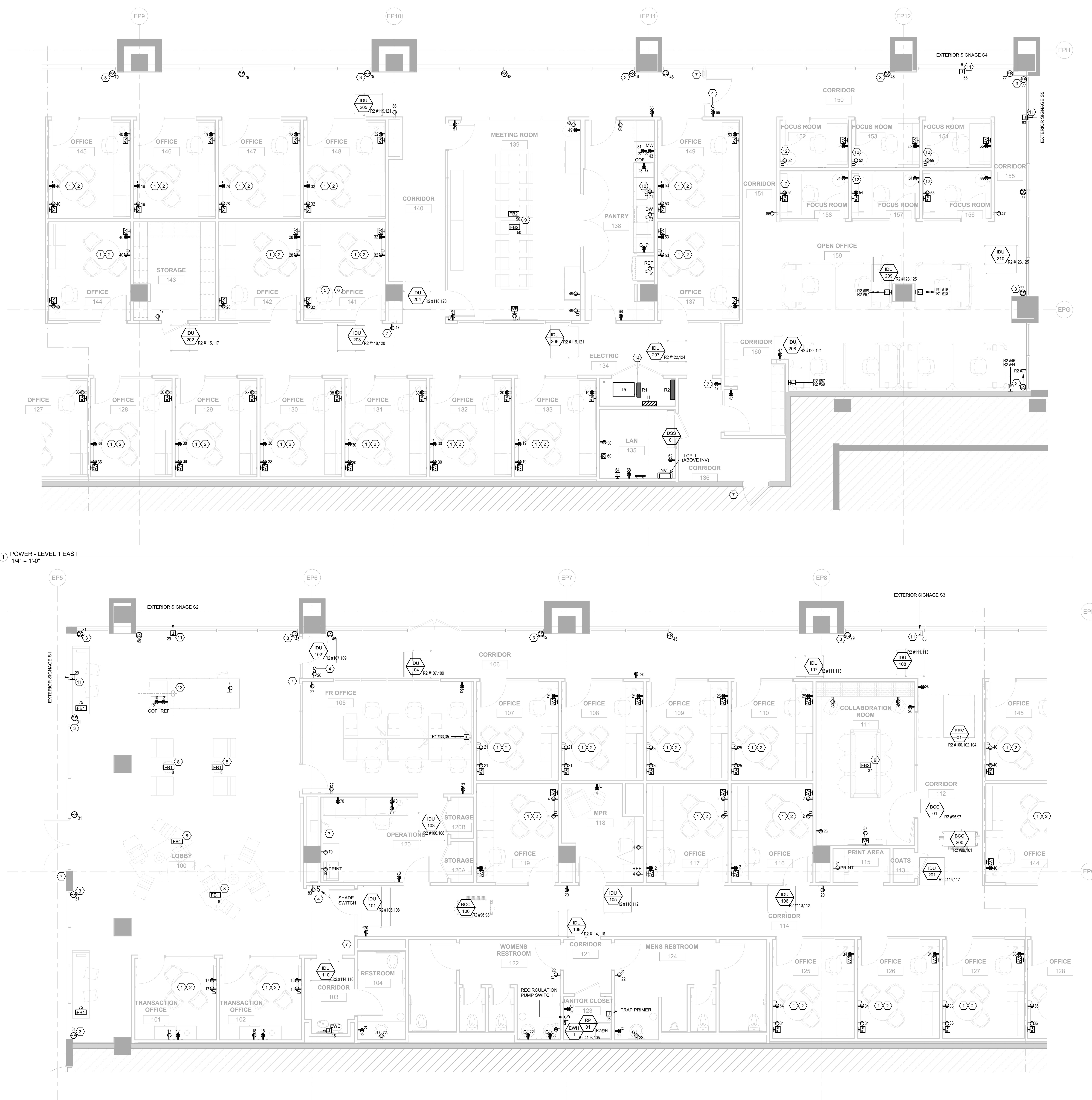


General Notes:

- NOTES:**
- FOR THE ELECTRICAL LEGEND AND GENERAL NOTES, REFER TO DRAWING E-01.
 - FOR THE ELECTRICAL RISER DIAGRAM, REFER TO DRAWING E-701.
 - FOR EXACT MOUNTING HEIGHTS OF ALL DEVICES, REFER TO ARCHITECTURAL PLANS AND ELEVATIONS. MOUNT DEVICES IN A COMMON VERTICAL PLANE, AND PROVIDE MULTI-GANG SERVICE PLATES WHEREVER POSSIBLE.
 - CIRCUIT NUMBERS SHOWN ON DRAWINGS ARE FOR DESCRIPTIVE PURPOSES ONLY. EXACT CIRCUIT NUMBERS SHALL BE DETERMINED IN THE FIELD.
 - REFER TO THE MECHANICAL EQUIPMENT SCHEDULE ON DRAWING E-702 FOR MECHANICAL EQUIPMENT CIRCUITING INFORMATION. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT. COORDINATE EXACT ELECTRICAL CONNECTION LOCATIONS WITH MECHANICAL CONTRACTOR.
 - COORDINATE LOCATION OF ELECTRICAL EQUIPMENT INSTALLED IN MECHANICAL ROOMS WITH MECHANICAL CONTRACTOR. NO PIPING, DUCTWORK, OR OTHER MECHANICAL EQUIPMENT SHALL BE ALLOWED TO PASS THROUGH THE DEDICATED ELECTRICAL SPACE ABOVE ELECTRICAL EQUIPMENT OR ELECTRICAL WORKING CLEARANCE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, SECTION 110.26.
 - ELECTRICAL PANELS, DISCONNECT SWITCHES, VFD'S, STARTERS, CONTROL PANELS, ETC., SHALL NOT BE LOCATED WITHIN STORAGE ROOMS.
 - EG SHALL COORDINATE ALL AVV CONDUIT PATHWAYS WITH AVV CONTRACTOR.
 - WHERE MORE THAN (1) ONE ELECTRICAL BOXES SHARE A STUD BAY, EACH ELECTRICAL BOX SHALL BE FURNISHED WITH AN ACOUSTICAL TREATMENT.

KEYNOTES

- REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS, LOCATIONS, AND FINISHES OF ALL DEVICES IN PRIVATE OFFICES.
- PROVIDE 3/4" CONDUIT ABOVE CEILING TO NEAREST SECURED SPACE ACCESSIBLE CEILING FOR ALL MOTION SENSORS, VIDEO CAMERA, GLASS BREAK, AND MAGNETIC CONTACT LOCATIONS THAT ARE INSTALLED IN OVPF CEILING ABOVE UNSECURED SPACE. COORDINATE ALL CONDUIT RUNS WITH MECHANICAL AND PLUMBING CONTRACTORS. COORDINATE SECURITY SYSTEM DEVICE LOCATIONS WITH SECURITY DRAWINGS.
- MOTORIZED SHADE, LOCATE JUNCTION BOX ABOVE NEAREST ACCESSIBLE CEILING AND PROVIDE CABLE LENGTHS AS REQUIRED. REFER TO MANUFACTURER'S RECOMMENDATIONS. COORDINATE EXACT LOCATION OF JUNCTION BOX WITH ARCHITECTURAL DRAWINGS.
- MOTORIZED SHADE CONTROL. PROVIDE AND WIRE UPDOWN CONTROL SWITCHES FOR MOTORIZED SHADES. REFER TO MANUFACTURER'S RECOMMENDATIONS. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS. SHADE RESET TO THE UP POSITION AT OFFICE HOURS PER TIMER. PROVIDE MULTI-GANG BOX AS REQUIRED.
- PROVIDE PLUG STRIP, PLUGS/D WITH 8 RECEPTACLES AT 6" ON CENTER WITH 20A NEMA L5-20P PLUG CORD END. PLUG STRIP MOUNTED VERTICALLY AND PLUGGED INTO UL-50R RECEPTACLE ON WALL. COORDINATE LOCATION WITH LOW VOLTAGE CONTRACTOR AND IT REPRESENTATIVE FOR EXACT LOCATION FOR EQUIPMENT SERVED.
- PROVIDE PLUG STRIP FOR SOUND MASKING: PLUGS/D WITH 8 RECEPTACLES AT 6" ON CENTER WITH 20A NEMA 5-20P PLUG CORD END. PLUG STRIP MOUNTED VERTICALLY AND PLUGGED INTO QUAD RECEPTACLE ON WALL. COORDINATE LOCATION WITH LOW VOLTAGE CONTRACTOR AND IT REPRESENTATIVE FOR EXACT LOCATION FOR EQUIPMENT SERVED.
- PROVIDE 3/4" CONDUIT ABOVE CEILING TO NEAREST SECURED SPACE FOR ALL CARD READER AND KEYPAD LOCATIONS. REFER TO SECURITY DRAWINGS AND ARCHITECTURAL DRAWINGS FOR LOCATIONS.
- FLOOR BOX LOCATION FOR POWER. TRENCH FLOOR TO NEAREST FULL-HEIGHT WALL LOCATION. PROVIDE (1) 3/4" CONDUIT FOR POWER. FLOOR BOX SHALL HAVE (2) DUPLEX RECEPTACLES. ROUTE FROM FLOOR BOX LOCATION TO NEAREST FULL-HEIGHT WALL AND STUB OUT ABOVE FINISHED CEILING. PROVIDE PULL-STRING AND CONDUIT BUSHING. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS.
- POKE-THRU LOCATION FOR POWER, AV, AND DATA. PROVIDE (1) 3/4" CONDUIT FOR POWER, (1) 1" CONDUIT FOR DATA, AND (1) 1-1/2" CONDUIT FOR AV CABLING. ROUTE FROM POKE-THRU LOCATION TO DISPLAY WALL AND STUB OUT ABOVE FINISHED CEILING. PROVIDE PULL-STRING AND CONDUIT BUSHING. FOR POKE-THRU FACE-PLATE DETAILS, COORDINATE WITH OWNER, AV/IT REPRESENTATIVE, AND LOW VOLTAGE CONTRACTOR. POKE-THRU SHALL HAVE (2) DUPLEX RECEPTACLES, AV, DATA PROVISIONS. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS.
- PROVIDE GFI BREAKER FOR EQUIPMENT.
- ELECTRICAL PROVISION FOR EXTERIOR SIGNAGE. COORDINATE LOCATION OF POWER CONNECTION WITH SIGN MANUFACTURER.
- PROVIDE ACOUSTICAL PLUDDY PADS FOR ELECTRICAL BOXES INSTALLED IN THE WALL INDICATED.
- PROVIDE 3/4" STUB-UP TO ISLAND FOR POWER CONNECTIONS. ROUTE CONDUIT UNDER SLAB TO NEAREST FULL-HEIGHT WALL. ELECTRICAL CONTRACTOR SHALL COORDINATE ROUTING UNDER SLAB WITH PLUMBING CONTRACTOR.
- PANEL R1 TO BE MOUNTED ON UNSTRUCT FRAME BESIDE PAD MOUNTED TRANSFORMER FOR CLEARANCE.



1 POWER - LEVEL 1 EAST
1/4" = 1'-0"

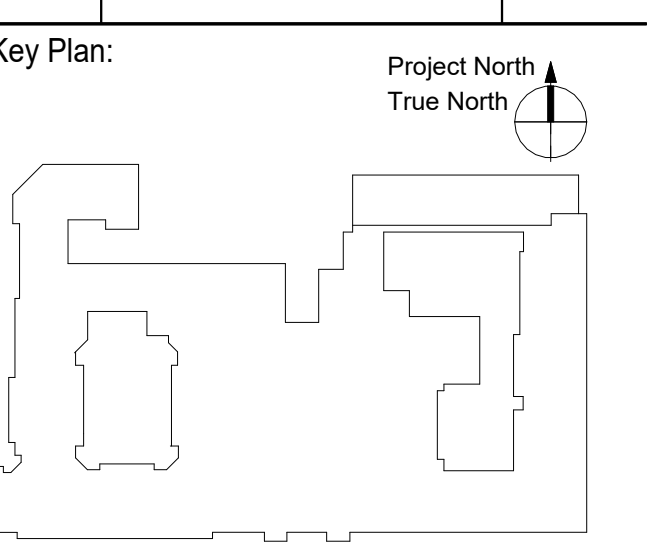
2 POWER - LEVEL 1 WEST
1/4" = 1'-0"



Fidelity Real Estate Company
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Boston, MA 20110

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Drawing Sheet Title:
POWER - LEVEL 1

Drawing Sheet Number:
E-301

Owner's Branch No.:
134

NOTES:

- FOR THE ELECTRICAL LEGEND AND GENERAL NOTES, REFER TO DRAWING E-001.
- FOR THE ELECTRICAL RISER DIAGRAM, REFER TO DRAWING E-701.
- CIRCUIT NUMBERS SHOWN ON DRAWINGS ARE FOR DESCRIPTIVE PURPOSES ONLY. EXACT CIRCUIT NUMBERS SHALL BE DETERMINED IN THE FIELD.
- REFER TO THE MECHANICAL EQUIPMENT SCHEDULE ON DRAWING E-702 FOR MECHANICAL EQUIPMENT CIRCUITING INFORMATION. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT. COORDINATE EXACT ELECTRICAL CONNECTION LOCATIONS WITH MECHANICAL CONTRACTOR.

Jacobs

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9th Floor, Suite 900
Philadelphia, PA 19103

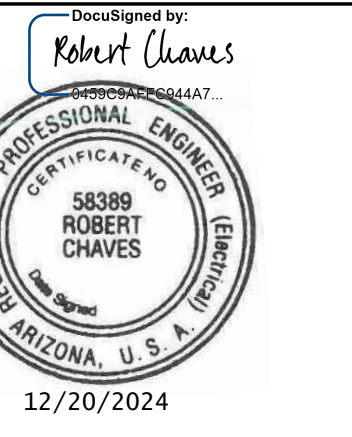
P 215.569.2900 F 215.569.5963
W www.jacobs.com

Fidelity's Engineering Consultant :

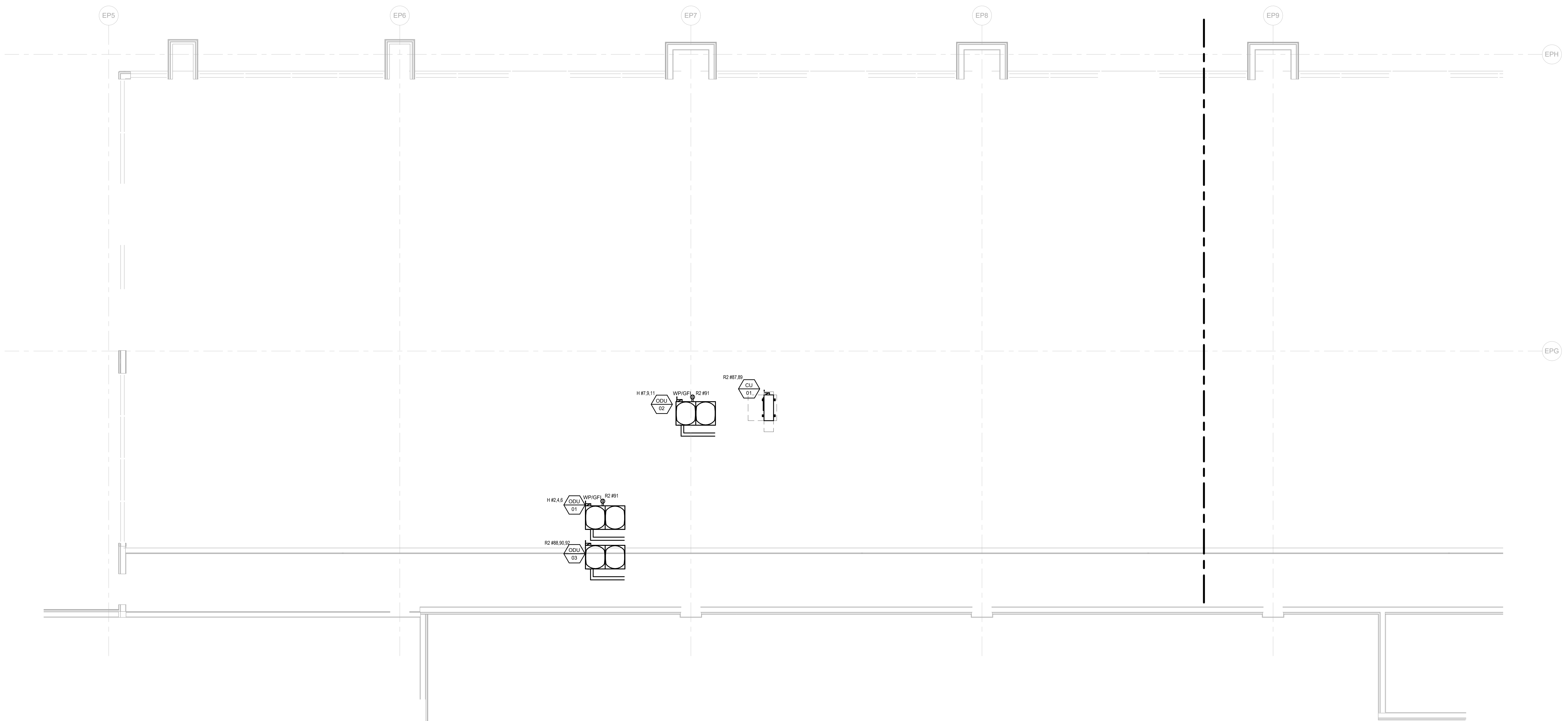
VANDERWEIL

R.G. Vanderweil Engineers, LPP
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Boston, MA 02210
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Seals:



General Notes:



Project Title:



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245 Summer Street
Boston, MA 20110

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Suite R-120
Scottsdale, AZ 85254

Number	Description	Date
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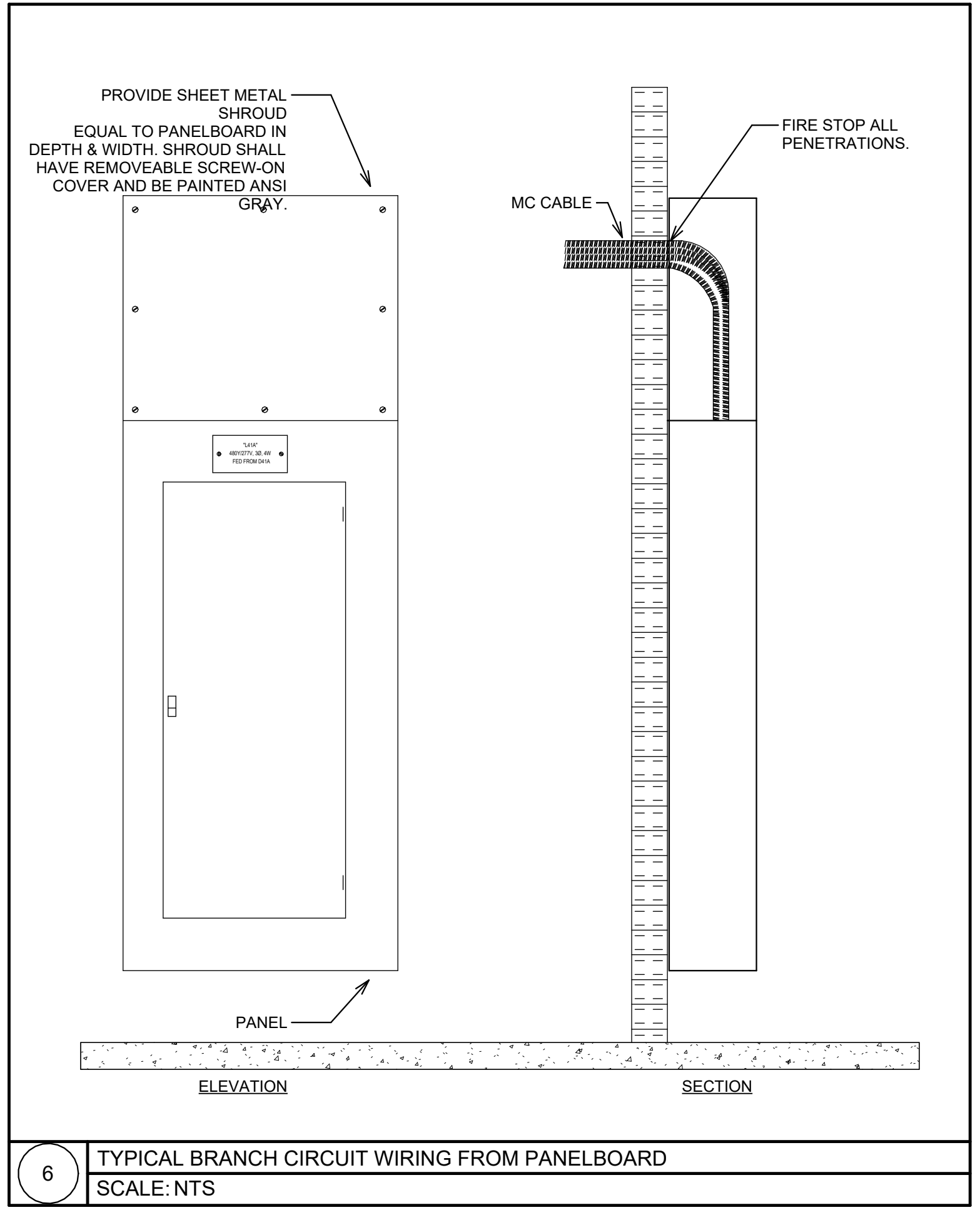
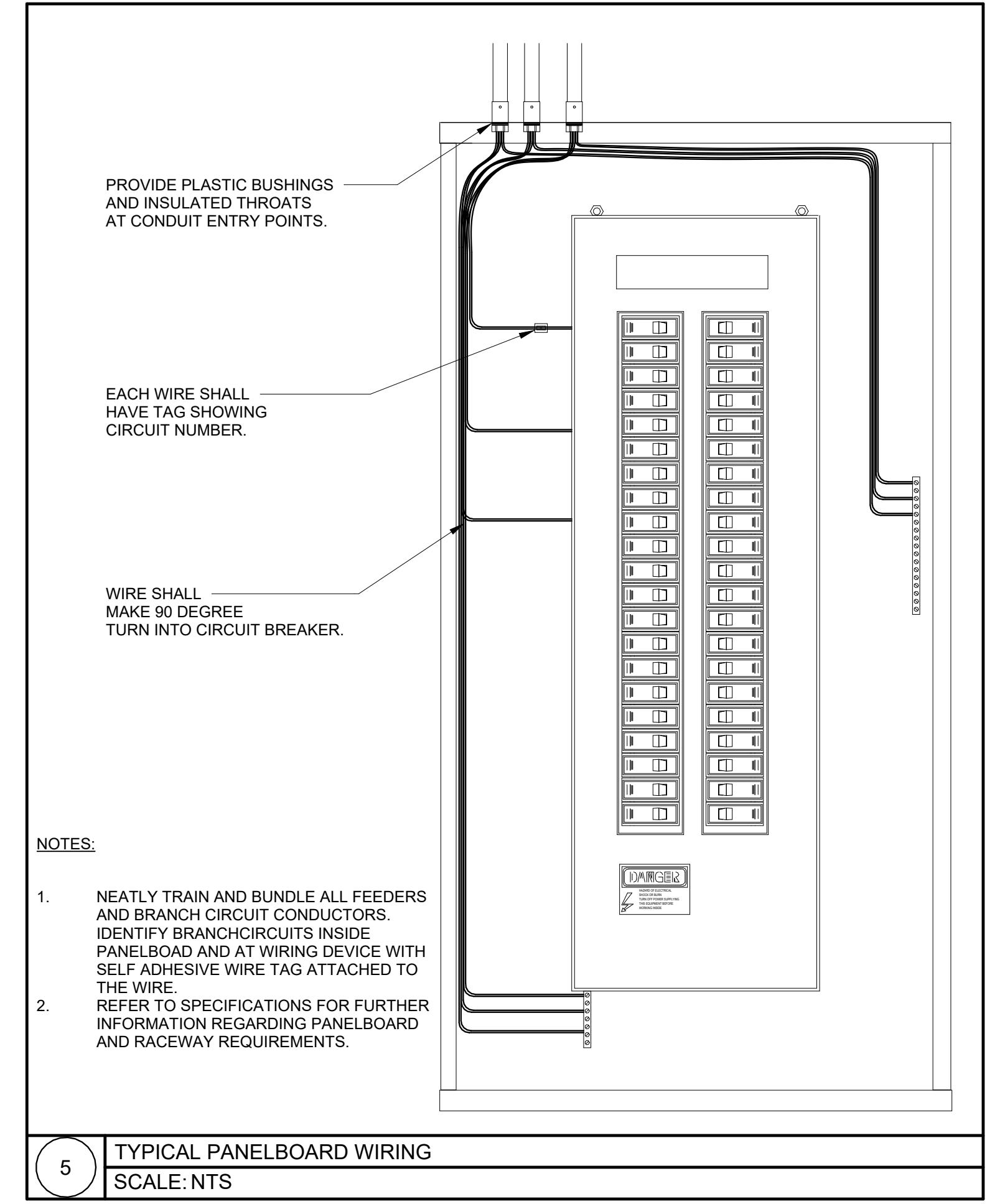
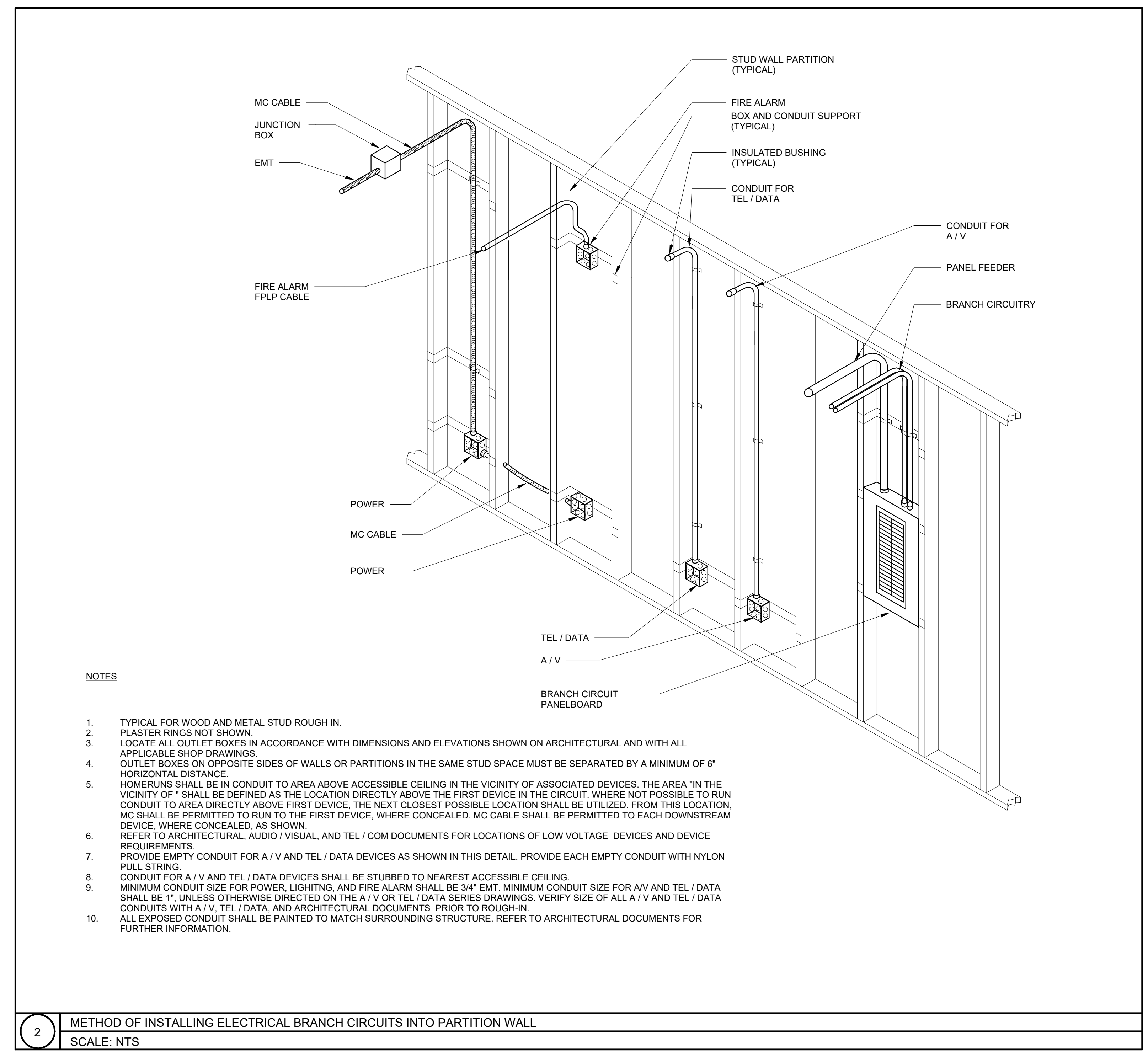
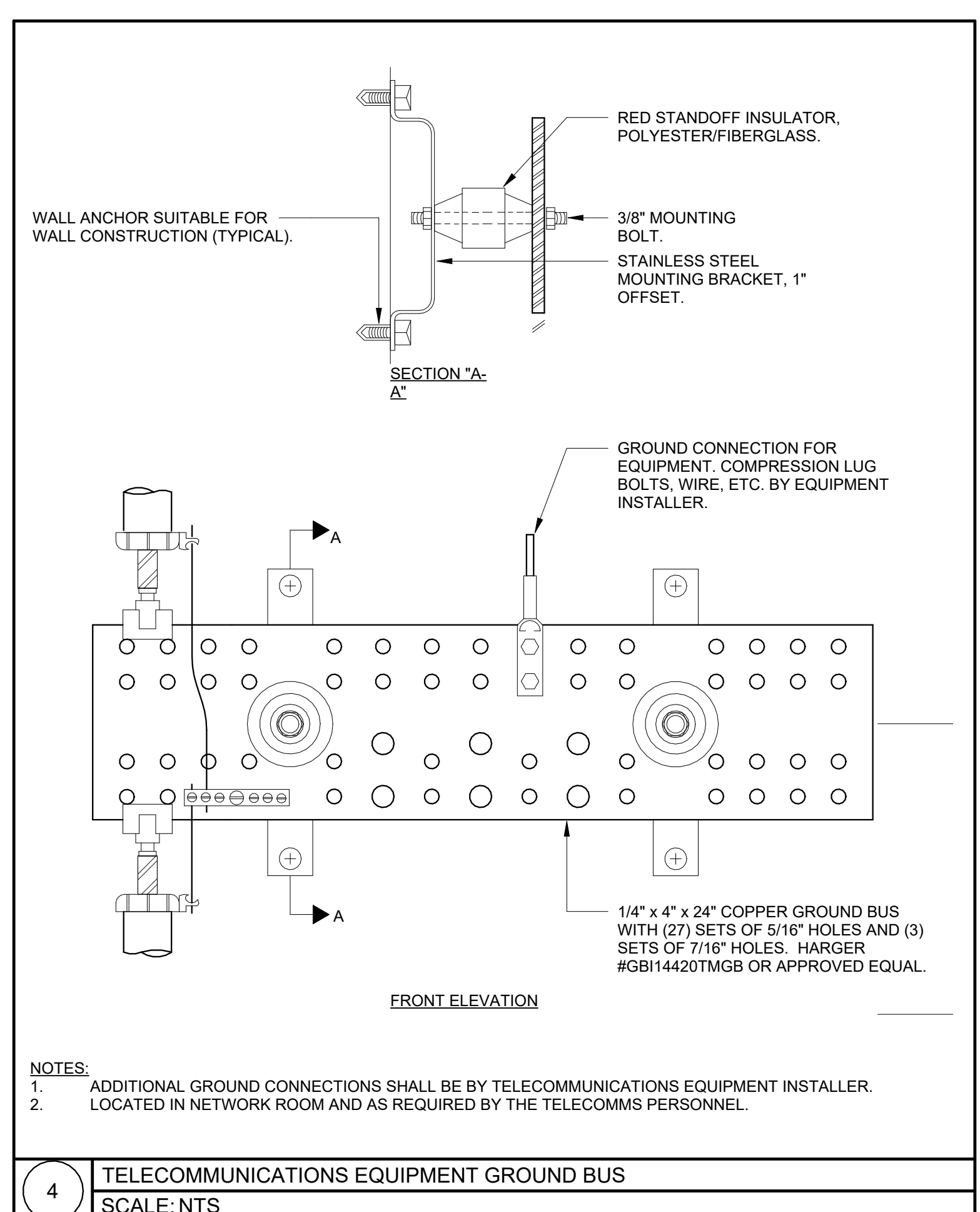
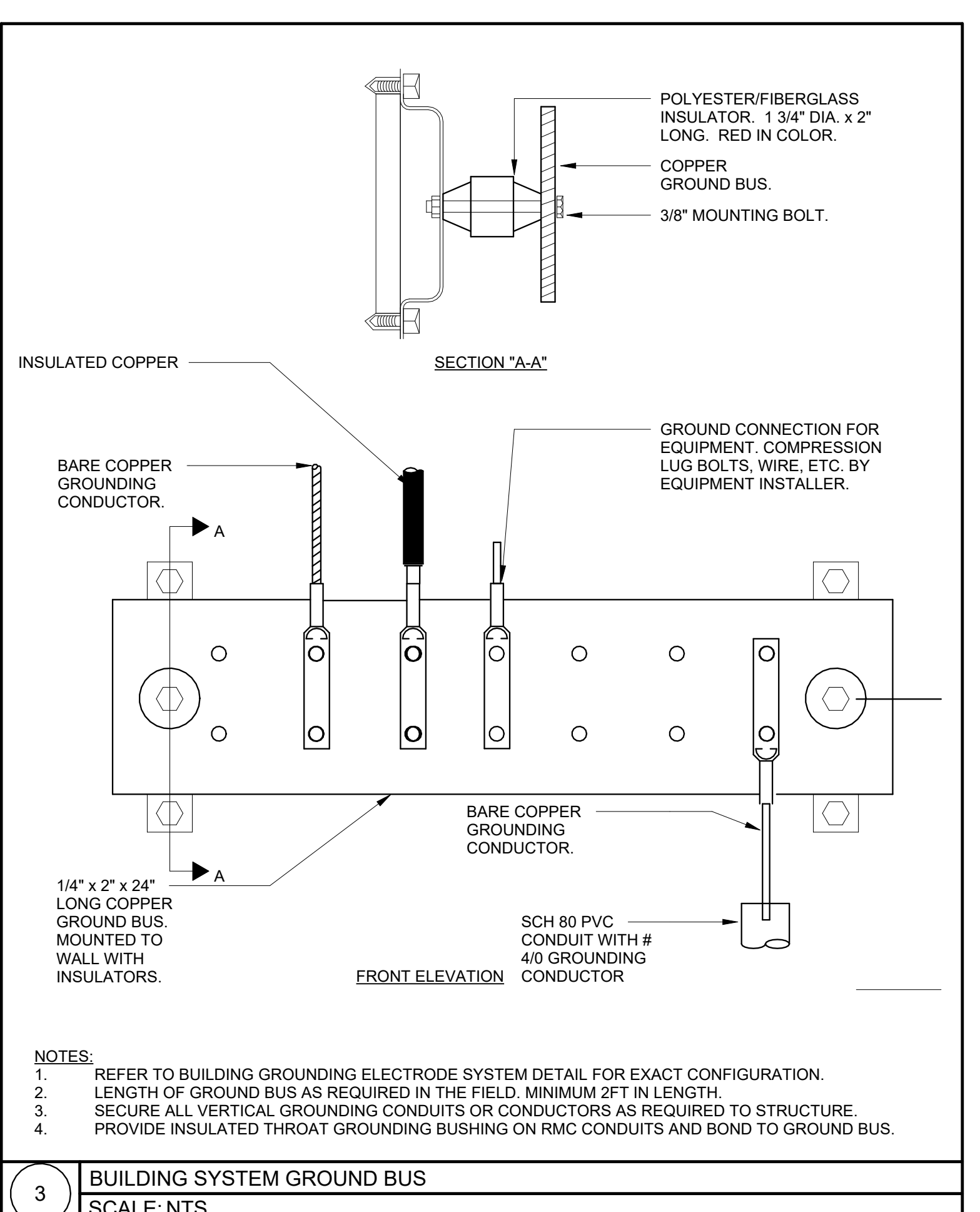
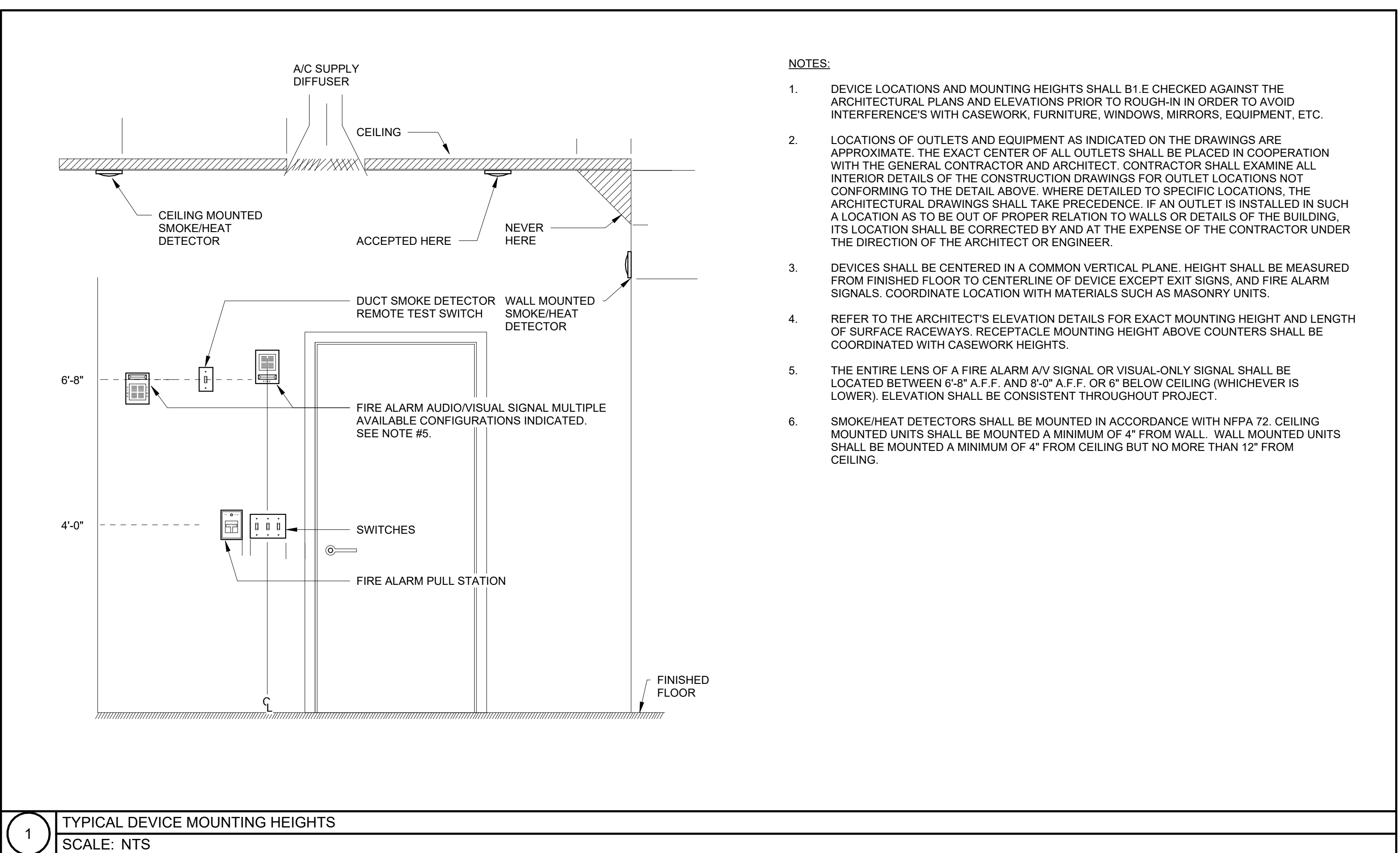
Key Plan: Project North / True North

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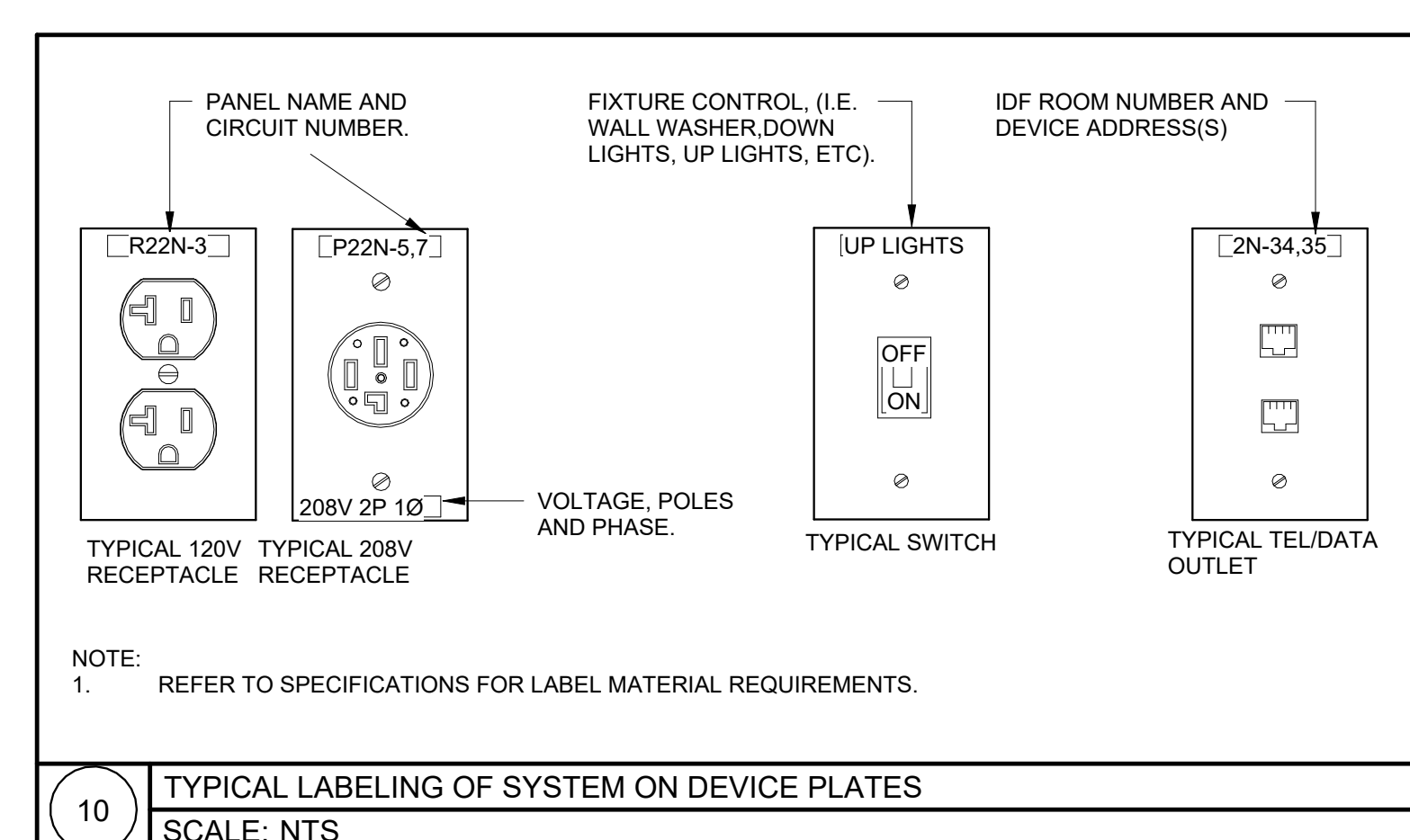
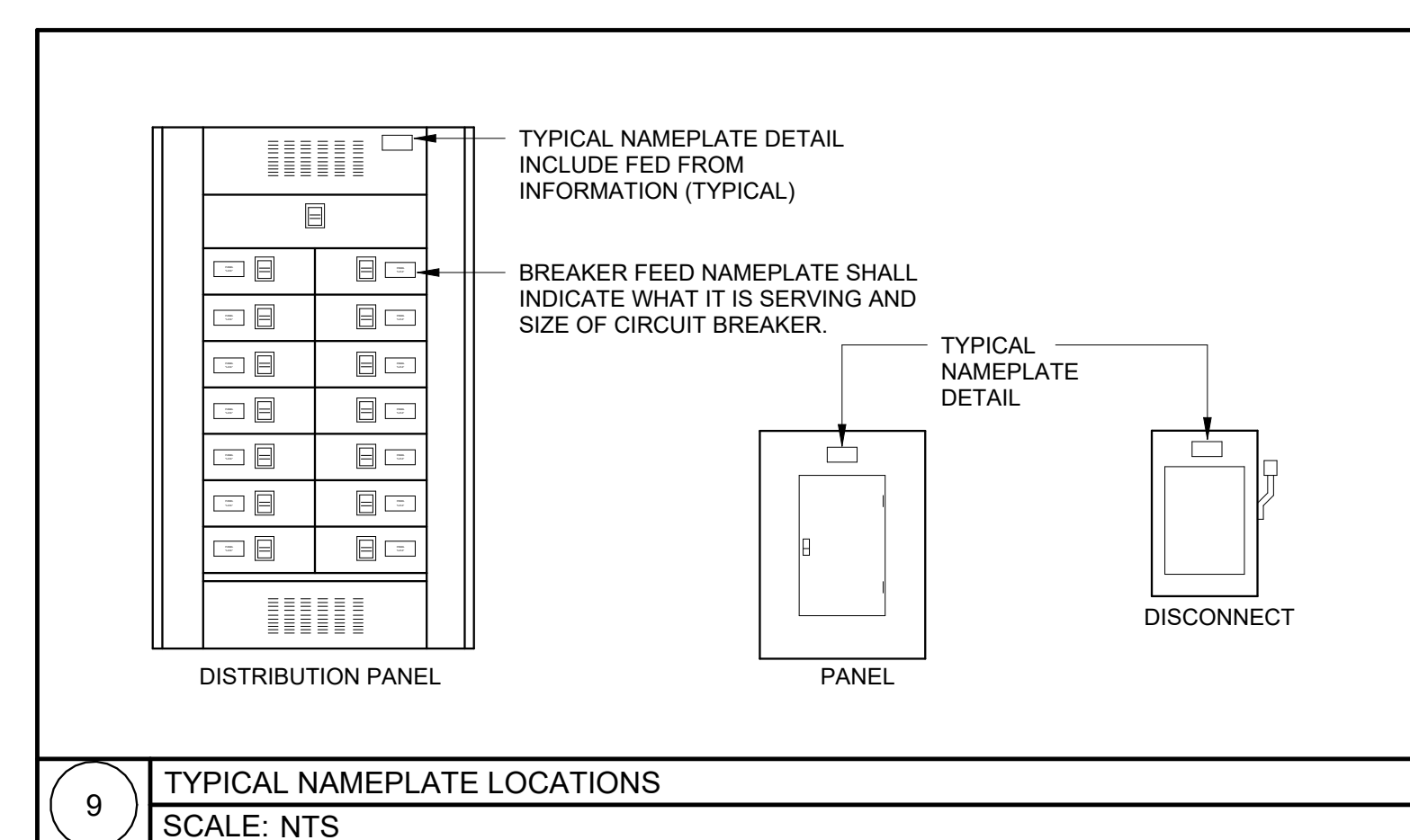
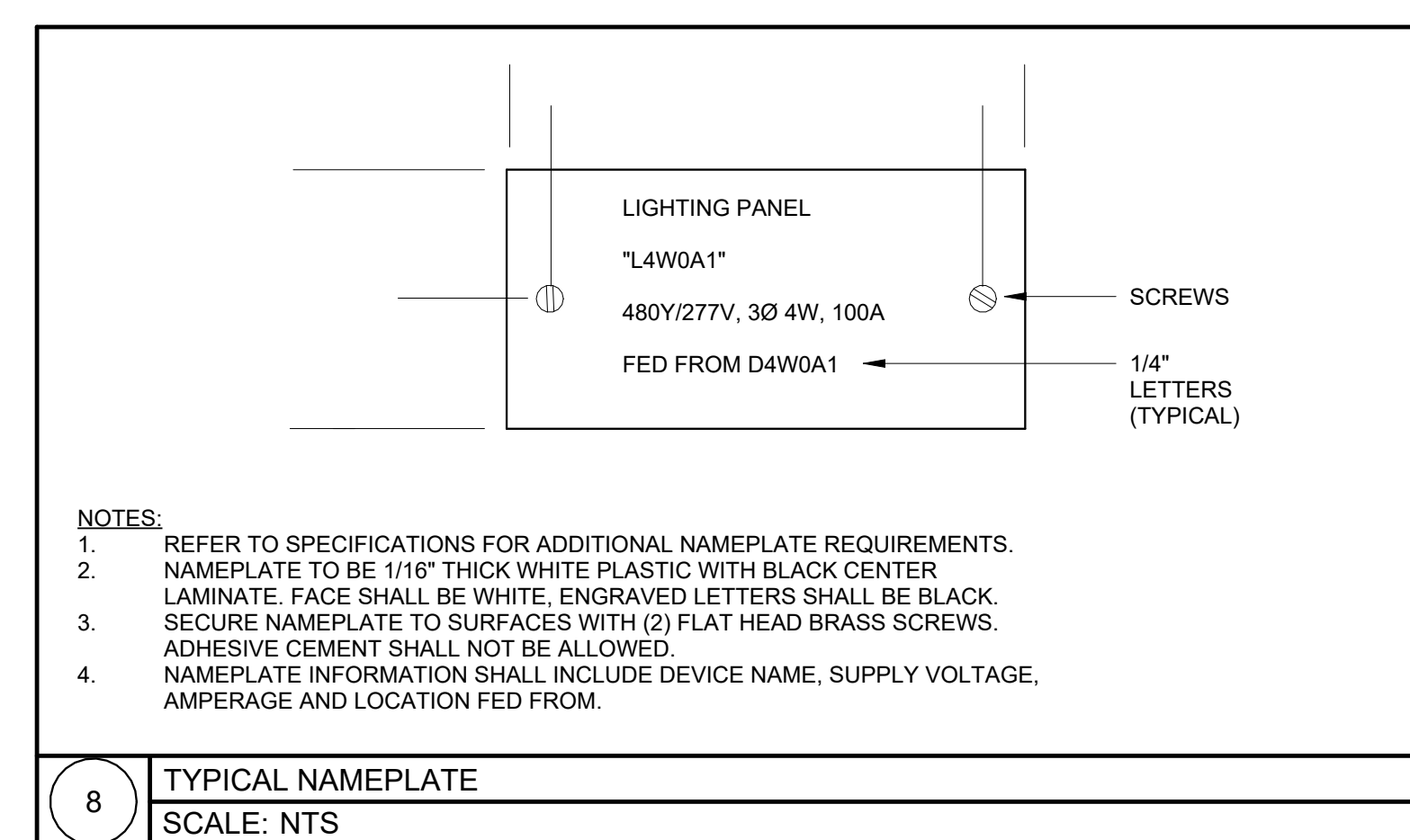
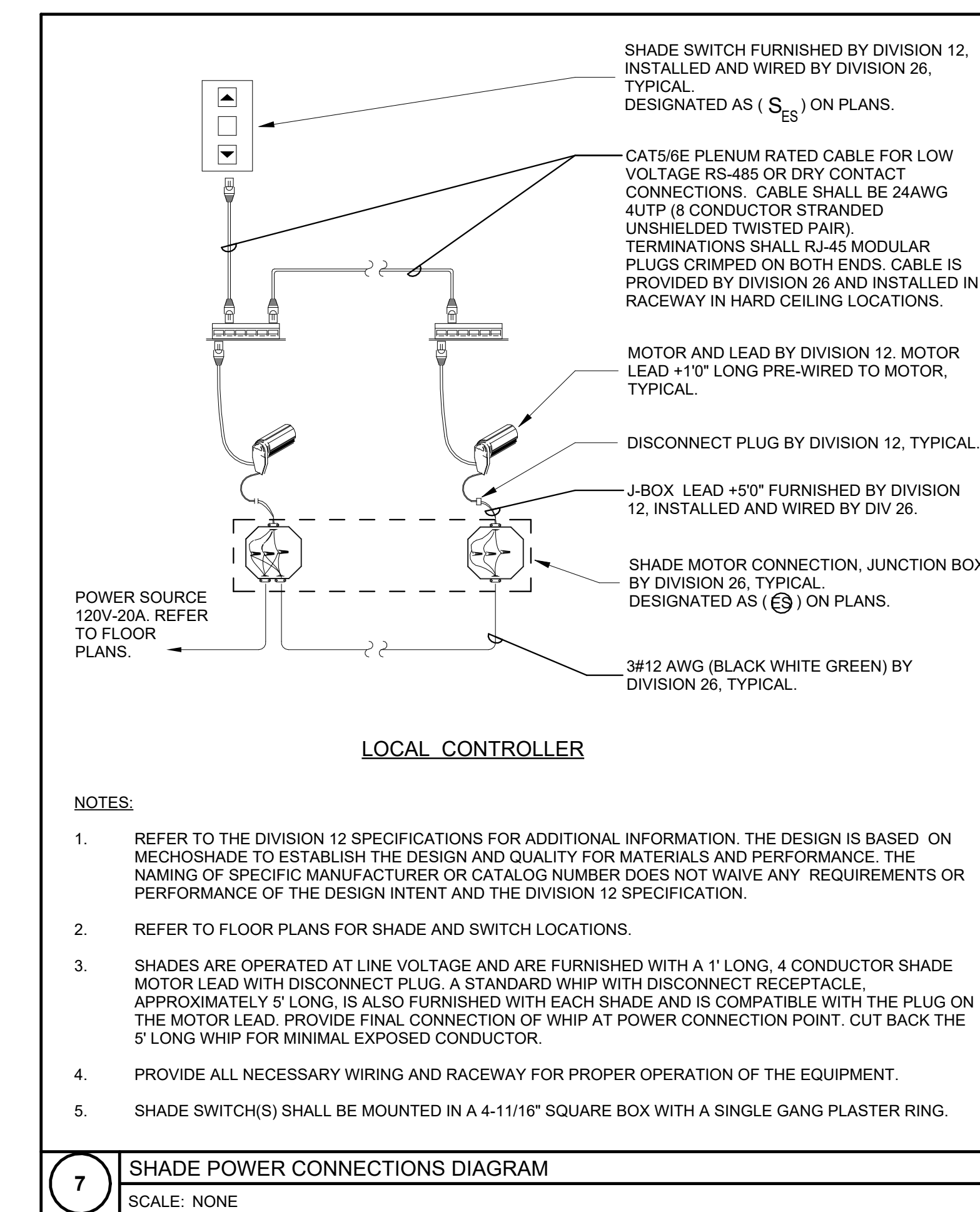
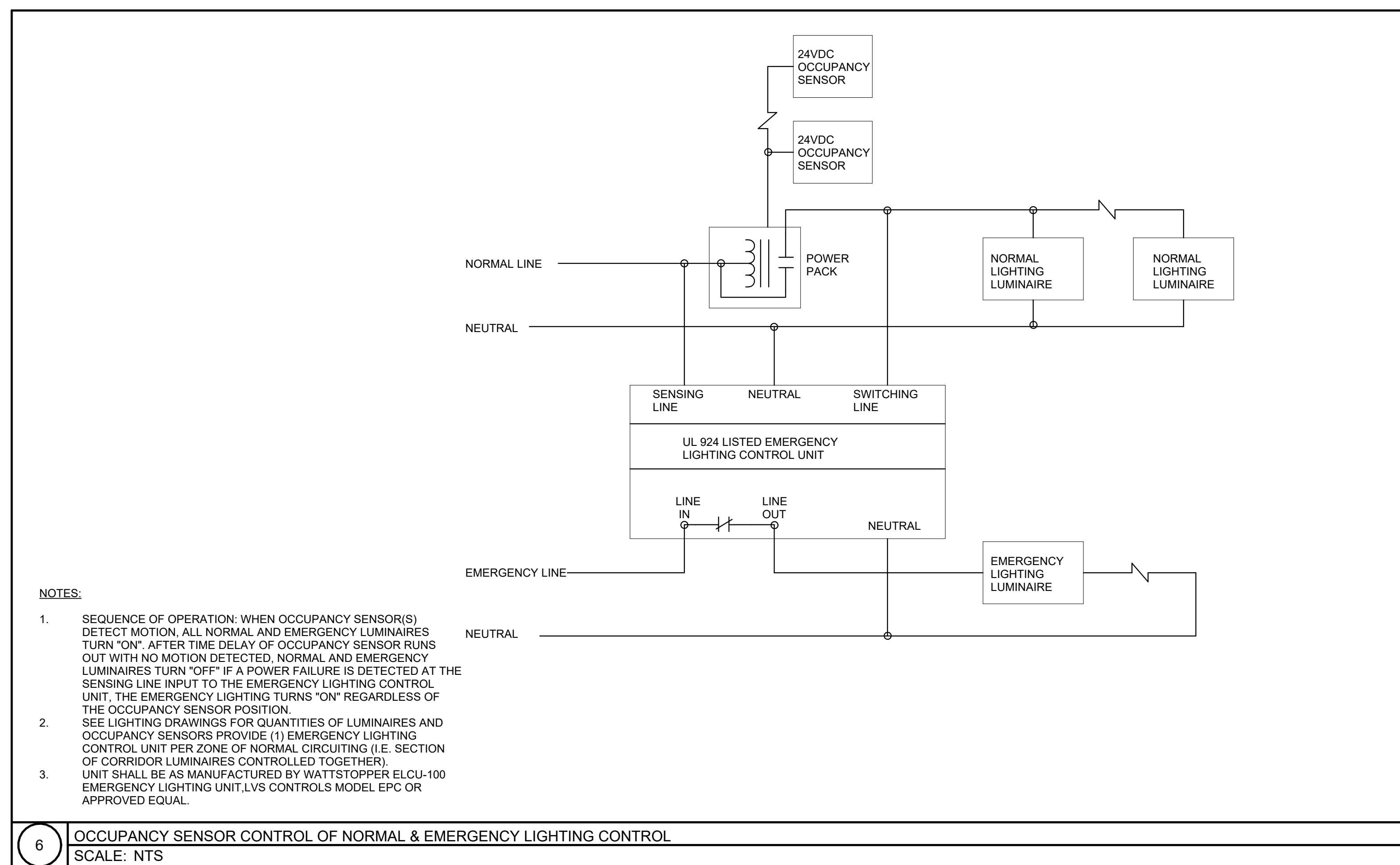
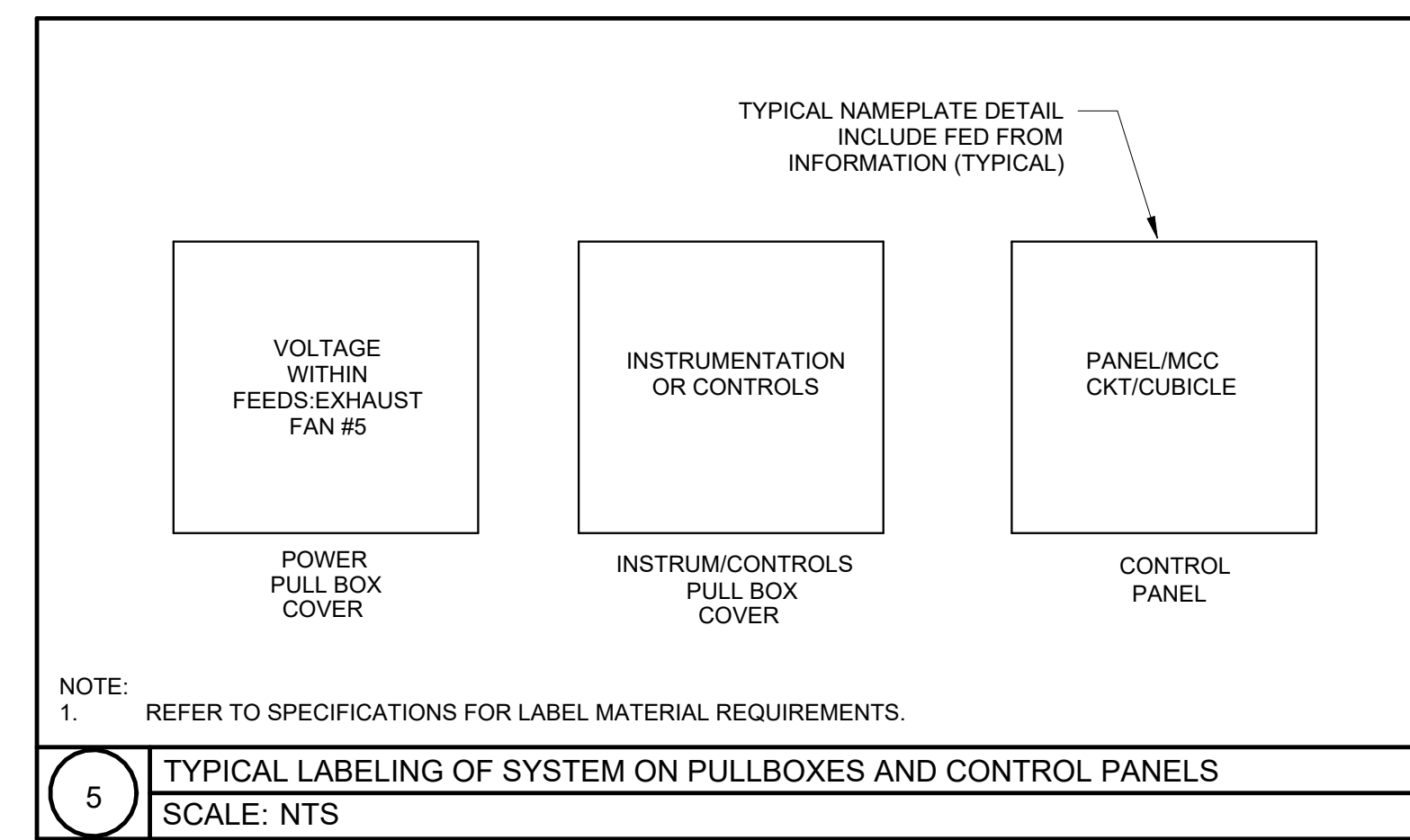
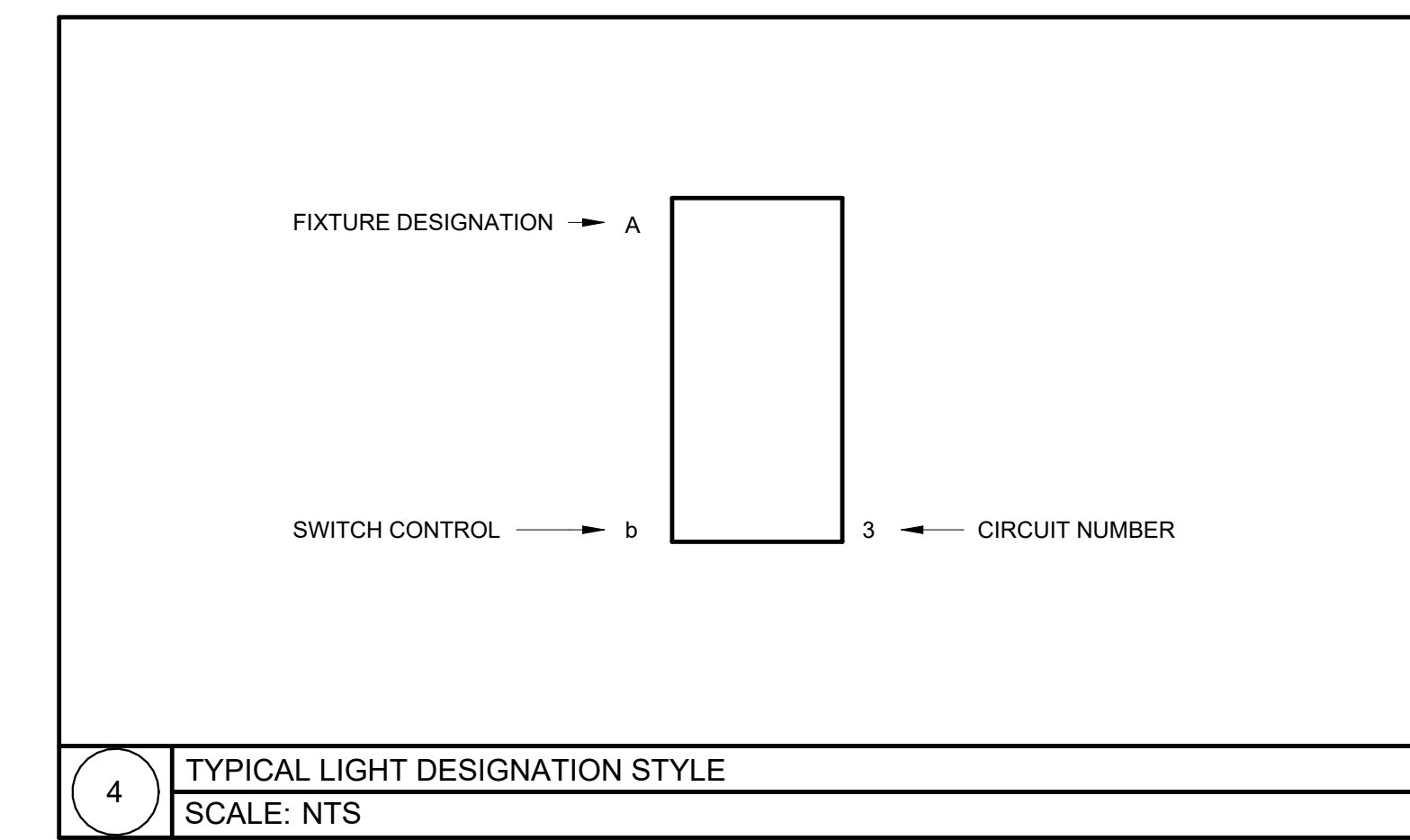
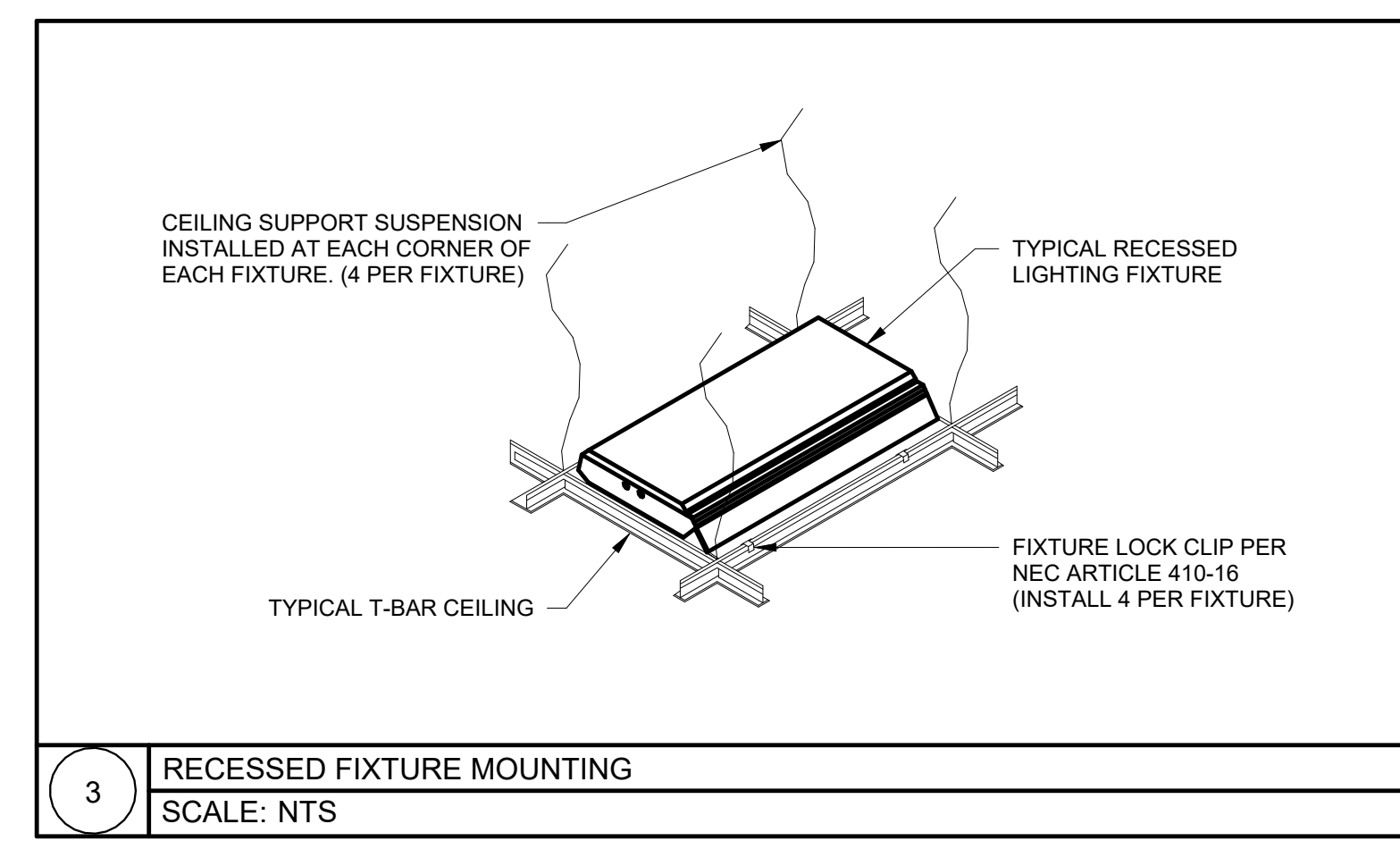
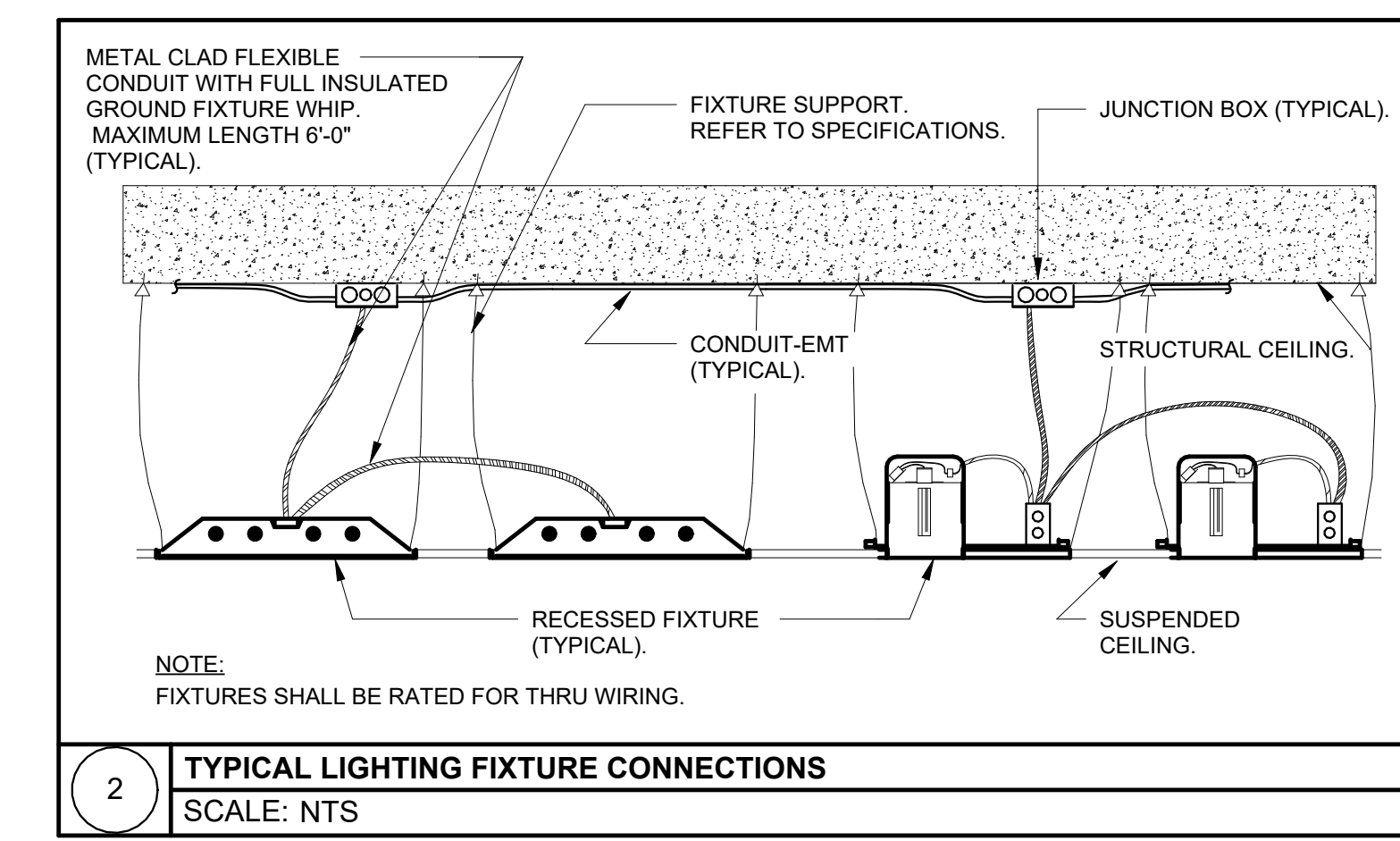
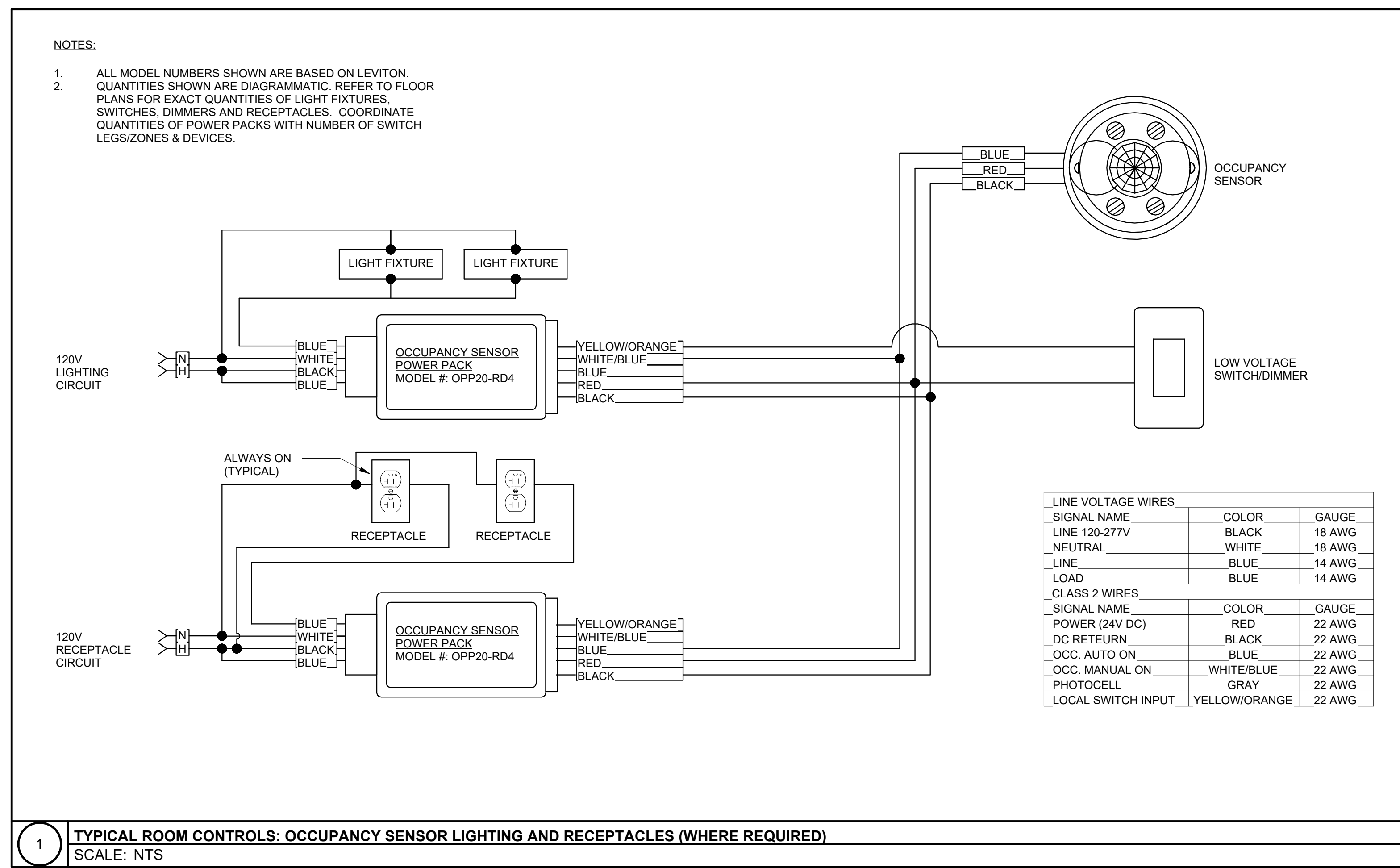
Drawing Sheet Title:
ELECTRICAL - ROOF PLAN

Drawing Sheet Number:
E-302

Owner's Branch No.:
134



Number	Description	Date
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State of Massachusetts
12/20/2024

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Number	Description	Date
1	Issued for Permit & Construction	23 DEC 24

Key Plan: Project North True North

PANEL NAME: R1 BUS AMPS: 225 PANELBOARD OPTIONS & ACCESSORIES MOUNTING: Surface VOLTAGE: 208Y/120V SSC RATING: 10K MLO: No MCB: Yes MCB RATING: 250A SHUNT TRIP: No NEUTRAL BUS: Yes SUB-FEED LUGS: No NEUTRAL BUS RATING: 100% FEED-THRU LUGS: Yes EQUIPMENT GROUND: Yes SURGE SUPPRESSION: No ISOLATED GROUND: No

PANEL NAME: R2 BUS AMPS: 225 PANELBOARD OPTIONS & ACCESSORIES MOUNTING: Surface VOLTAGE: 208Y/120V SSC RATING: 10K MLO: No MCB: Yes MCB RATING: 250A SHUNT TRIP: No NEUTRAL BUS: Yes SUB-FEED LUGS: No NEUTRAL BUS RATING: 100% FEED-THRU LUGS: Yes EQUIPMENT GROUND: Yes SURGE SUPPRESSION: No ISOLATED GROUND: No

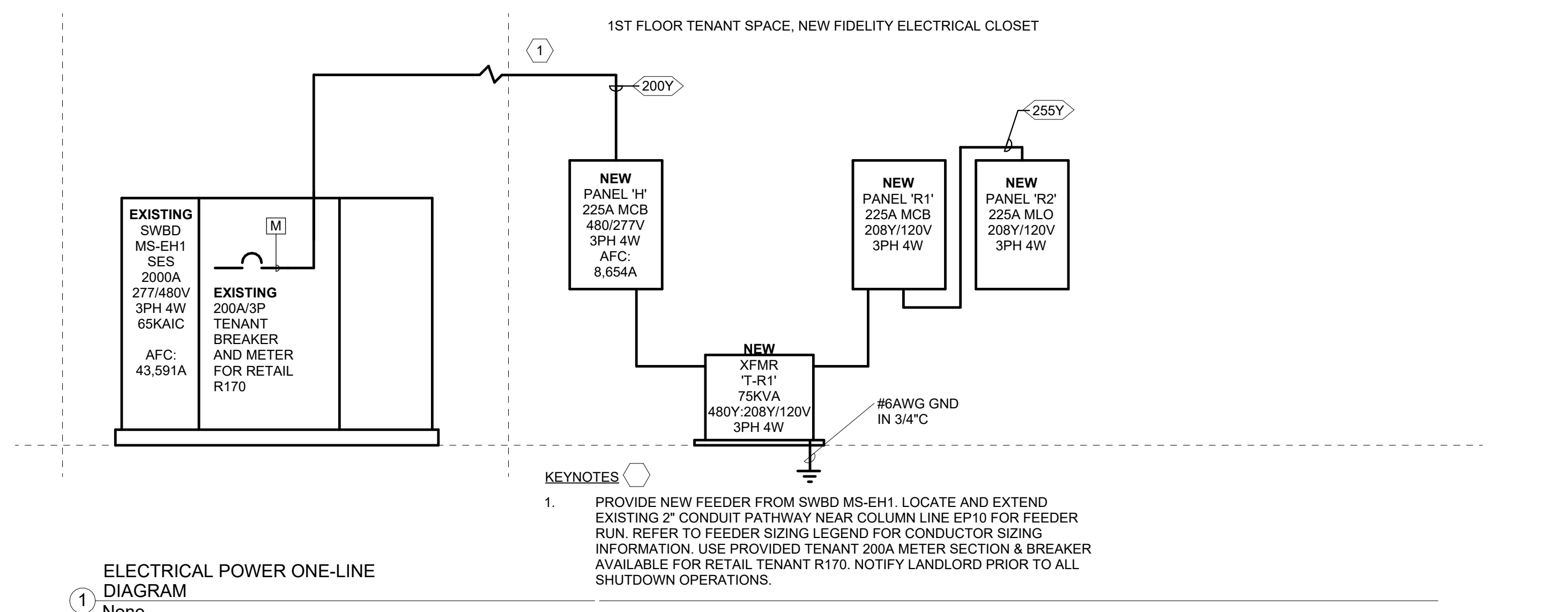
PANEL NAME: H BUS AMPS: 225 PANELBOARD OPTIONS & ACCESSORIES MOUNTING: Surface VOLTAGE: 480Y/277V SSC RATING: 14K MLO: No MCB: Yes MCB RATING: 250A SHUNT TRIP: No NEUTRAL BUS: Yes SUB-FEED LUGS: Yes NEUTRAL BUS RATING: 100% FEED-THRU LUGS: No EQUIPMENT GROUND: Yes SURGE SUPPRESSION: No ISOLATED GROUND: No

LOAD TYPE CONNECTED (KVA) DEMAND (KVA) LOAD TYPE KEY BREAKER TYPE KEY PANEL TOTALS

LOAD TYPE CONNECTED (KVA) DEMAND (KVA) LOAD TYPE KEY BREAKER TYPE KEY PANEL TOTALS

LOAD TYPE CONNECTED (KVA) DEMAND (KVA) LOAD TYPE KEY BREAKER TYPE KEY PANEL TOTALS

LOAD TYPE CONNECTED (KVA) DEMAND (KVA) LOAD TYPE KEY BREAKER TYPE KEY PANEL TOTALS



TRANSFORMER SCHEDULE table with columns: TAG, KVA, PRIMARY (480V, 3-PHASE), FEEDER SIZE, BONDING COND./SEC., AMPS, OCP, SECONDARY (120/208V, 3-PHASE), FEEDER SIZE, TAG.

- NOTES: 1. TAG DESIGNATIONS ARE AS FOLLOWS. TAG IS NEMA TP1 TRANSFORMER... 2. GROUND TRANSFORMER TO NEAREST AVAILABLE EFFECTIVELY-GROUNDED STRUCTURAL STEEL ELEMENT...

LEGEND OF FEEDER SIZES (COPPER CONDUCTORS) table with columns: AMPERE RATING, FEEDER TAG, CONDUCTORS, MINIMUM RACEWAY SIZE (INCHES), AMPERE RATING, FEEDER TAG, CONDUCTORS, MINIMUM RACEWAY SIZE (INCHES).

- DESIGNATIONS: THE ASTERISK ABOVE IS FILLED IN WITH ONE OR MORE OF THE FOLLOWING DESIGNATIONS ON THE RISER... NOTES: 1. WIRE AND CONDUIT TAGS REPRESENT BASE AMPACITY AND NUMBER OF WIRES...

SPECIAL PURPOSE RECEPTACLE SCHEDULE table with columns: SYMBOL, NEMA NO., DEVICE RATINGS, CIRCUIT BREAKER, BRANCH CIRCUIT.

BRANCH CIRCUITS SCHEDULE table with columns: CIRCUIT BREAKER, CONDUCTOR, MINIMUM RACEWAY SIZE (INCHES).

- NOTES: 1. ALL BRANCH CIRCUIT SIZES ARE BASED ON RACEWAY LENGTH OF 65 FEET... 2. EACH BRANCH CIRCUIT SHALL HAVE A DEDICATED NEUTRAL CONDUCTOR...

Notes 7-11 and 12 regarding conductor sizes, voltage drop, and termination requirements.

JACOBS Jacobs Engineering Group, Inc. Two Commerce Square 2001 Market Street 9th Floor, Suite 900 Philadelphia, PA 19103

Fidelity's Engineering Consultant VANDERWEIL R.G. Vanderweil Engineers, LLP 274 Summer Street Boston, MA 02210

General Notes: 1. PROVIDE NEW FEEDER FROM SWBD MS-EH1. LOCATE AND EXTEND EXISTING 2" CONDUIT PATHWAY NEAR COLUMN LINE EP10 FOR FEEDER... ELECTRICAL POWER ONE-LINE DIAGRAM None

Project Title: Fidelity INVESTMENTS Fidelity Real Estate Company 245 Summer Street Boston, MA 20110

Number Description Date table with columns: Number, Description, Date.

CIRCUIT LENGTH table with columns: WIRE SIZE, 120V CIRCUIT, 277V CIRCUIT.

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PLUMBING NOTES - GENERAL

- 1. GENERAL NOTES, SYMBOLS LIST AND DETAILS ARE APPLICABLE TO ALL DRAWINGS MARKED P...
2. DRAWINGS ARE DIAGNOSTIC, DETERMINE LOCATIONS OF SYSTEMS AND COMPONENTS IN FIELD.
3. DIMENSIONS SHOWN ON PLAN ARE HORIZONTAL. DIMENSIONS SHOWN IN ELEVATION ARE VERTICAL.
4. DETERMINE EXACT LOCATIONS IF EXISTING UTILITIES IN FIELD, WHETHER OR NOT SHOWN ON DRAWINGS. EXERCISE CAUTION AND IDENTIFY LOCATIONS OF UNMARKED UTILITY LINES AS NECESSARY TO PERFORM WORK OF THIS SECTION.
5. ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH THE LATEST PLUMBING CODE AND ALL APPLICABLE LOCAL CODES.
6. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO COORDINATE THE WORK WITH THAT OF ALL OTHER TRADES, INCLUDING BUT NOT LIMIT TO, ELECTRICAL, HVAC, PROCESS PIPING, SPRINKLER, PLUMBING, STRUCTURAL AND GENERAL ARCHITECTURE.
7. ANY INTERFERENCE SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE, AND SHALL BE RESOLVED PRIOR TO THE INSTALLATION OF THE WORK.
8. NO WORK SHALL BE INSTALLED IN VIOLATION OF ANY GOVERNING CODES. ANY WORK SHOWN ON THE DRAWINGS WHICH IS IN VIOLATION OF SUCH CODES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE AND SHALL BE RESOLVED PRIOR TO THE INSTALLATION OF THE WORK.
9. ALL PIPING PENETRATING CEILING AND WALL SHALL BE INSTALLED WITH ESCUTCHEONS AT THE PENETRATION. ALL PIPING PENETRATING EXTERIOR WALLS AND ROOFS SHALL BE FLASHED IN AN APPROVED MANNER AND SHALL BE SEALED WEATHERTIGHT. PIPING PENETRATING FIRE RATED PARTITIONS SHALL BE PROVIDED WITH FIRE RATED SEALS AS REQUIRED BY LOCAL CODE AUTHORITY. (SEE DETAILS)
10. MANUFACTURER'S MODEL NUMBERS ARE SPECIFIED SOLELY TO ESTABLISH STANDARDS OF QUALITY FOR PERFORMANCE AND MATERIALS.
11. INSTALLATION SHALL ADHERE TO MANUFACTURER'S RECOMMENDATIONS. PROVIDE ACCESS PANELS TO SYSTEM COMPONENTS THAT ARE CONCEALED AND REQUIRE PERIODIC SERVICE.
12. TOPS OF ALL FLOOR DRAINS SHALL BE SET FLUSH WITH FINISHED FLOOR. ALL PIPING ABOVE GRADE SHALL BE PROPERLY SUPPORTED BY THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING STRUCTURE OR COMPONENTS.
13. ALL PLUMBING EQUIPMENT, PIPING, INSULATION, ETC., INSTALLED IN HVAC PLENUM SPACES SHALL MEET CODE REQUIREMENTS FOR SMOKE AND COMBUSTIBILITY.
14. PROVIDE SHUTOFF VALVES ON ALL BRANCH PIPING AND ON ALL SUPPLIES TO INDIVIDUAL FIXTURES AND EQUIPMENT. PROVIDE BALL VALVES ON ALL WATER MAIN BRANCHES IN CORRIDORS AND WHERE INDICATED ON DRAWINGS.
15. PROVIDE CLAMPS, OFFSETS, EXPANSION JOINTS, ANCHORS AND GUIDES AS NECESSARY TO PREVENT STRESS ON PIPING.
16. PROVIDE VENTS AT HIGH POINTS IN PIPING SYSTEMS AND DRAIN VALVES AT LOW POINTS.
17. PROVIDE GAUGE FITTINGS AND THERMOMETER WELLS AT HOT WATER SUPPLY AND RETURN BRANCHES AND AT PUMP INLETS AND OUTLETS.
18. PITCH PRESSURE PIPING IN DIRECTION OF FLOW.
19. VERIFY EXACT SIZES, LOCATIONS, INVERTS AND ELEVATIONS PRIOR TO RUNNING ANY PIPING. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF ALL FIXTURES AND EQUIPMENT. REFER TO KITCHEN LAYOUT DRAWING FOR EXACT LOCATION AND ROUGH-IN REQUIREMENTS OF ALL KITCHEN FIXTURES AND EQUIPMENT.

PLUMBING ABBREVIATIONS - DOMESTIC FIXTURE

Table with 2 columns: Abbreviation and Description. Includes BT (BATH TUB), DF (DRINKING FOUNTAIN), EWC (ELECTRIC WATER COOLER), HB (HOSE BIBB W/ VACUUM BREAKER), JS (JANITOR SINK), L (LAVATORY), MSB (MOP SERVICE BASIN), SH (SHOWER), SK (SINK), SS (SERVICE SINK), UR (URINAL), WC (WATER CLOSET), WH (WALL HYDRANT).

PLUMBING ABBREVIATIONS - DOMESTIC WATER

Table with 2 columns: Abbreviation and Description. Includes 140F HW (140° HOT WATER SUPPLY), 140F HW/R (140° HOT WATER RETURN), CW (COLD WATER), CWR (CHILLED DRINKING WATER RETURN), CWS (CHILLED DRINKING WATER SUPPLY), HW (HOT WATER), HW/R (HOT WATER RETURN), N/P/C/W (NON-POTABLE COLD WATER), W (WATER SERVICE).

PLUMBING ABBREVIATIONS - INSTRUMENTS

Table with 2 columns: Abbreviation and Description. Includes FM (FLOW METER), FS (FLOW SWITCH), PI (PRESSURE INDICATOR), RM (RESISTIVITY METER).

PLUMBING ABBREVIATIONS - DRAINAGE

Table with 2 columns: Abbreviation and Description. Includes CI (CAST IRON), CO (CLEANOUT), FD (FLOOR DRAIN), SAN (SANITARY), SS (SOIL STACK), TD (TRENCH DRAIN), V (VENT), VS (VENT STACK), W (WASTE), W & T (WASTE & TRAP), W & V (WASTE & VENT), WS (WASTE STACK).

PLUMBING ABBREVIATIONS - MATERIAL

Table with 2 columns: Abbreviation and Description. Includes CI (CAST IRON), CLDI (CEMENT LINED DUCTILE IRON), GALV (GALVANIZED), GWB (GYPSUM WALL BOARD), PP (POLYPROPYLENE), PVC (POLYVINYL CHLORIDE), RCP (REINFORCED CONCRETE PIPE), ST ST (STAINLESS STEEL).

PLUMBING - DRAWING LIST

Table with 3 columns: SHEET NUMBER, SHEET NAME, Description. Includes P-001 (PLUMBING LEGEND AND GENERAL NOTES), P-002 (PLUMBING SPECIFICATIONS), P-003 (PLUMBING SPECIFICATIONS), P-201 (PLUMBING - LEVEL 1 SANITARY PIPING PLAN), P-202 (PLUMBING - LEVEL 1 DOMESTIC WATER PIPING PLAN), P-301 (PLUMBING - SCHEDULES AND DETAILS).

PLUMBING ABBREVIATIONS - GENERAL

Large table with 2 columns: Abbreviation and Description. Includes ABB (ABBREVIATION), AC (AIR CHAMBER), AFF (ABOVE FINISH FLOOR), AHJ (AUTHORITY HAVING JURISDICTION), AP (ACCESS PANEL), ARCH (ARCHITECT), AVB (ATMOSPHERIC VACUUM BREAKER), BLDG (BUILDING), BOP (BOTTOM OF PIPE), BOR (BOTTOM OF RISER), BV (BALL VALVE), CFM (CUBIC FEET PER MINUTE), CFS (CUBIC FEET PER SECOND), CI (CAST IRON), CL (CENTER LINE), CLDI (CEMENT LINED DUCTILE IRON), CLG (CEILING), CLK (COLUMN), CONT (CONTINUATION), CP (CHROME PLATED), CP# (HOT WATER CIRCULATING PUMP #), CTE (CONNECT TO EXISTING), CV (CHECK VALVE), DIA (DIAMETER), DN (DOWN), DWG (DRAWING), EL (ELEVATION), EQ (EQUAL), ETBR (EXISTING TO BE REMOVED), ETR (EXISTING TO REMAIN), EWH (ELECTRIC WATER HEATER), FC (FALL CLOSED), FFE (FINISH FLOOR ELEVATION), FO (FALL OPEN), FT (FEET), GALV (GALVANIZED), GC (GENERAL CONTRACTOR), GPD (GALLONS PER DAY), GPM (GALLONS PER MINUTE), GV (GATE VALVE), GWH (GAS WATER HEATER), HC (HANDICAPPED ACCESSIBLE), HP (HORSEPOWER), HZ (HERTZ), ID (INSIDE DIAMETER), IN (INCHES), INV (INVERT), KW (KILOWATTS), MAX (MAXIMUM), MECH (MECHANICAL), MEZZ (MEZZANINE), MFR (MANUFACTURER), MH (MANHOLE), MIN (MINIMUM), MISC (MISCELLANEOUS), MTD (MOUNTED), MV (MIXING VALVE), N/A (NOT APPLICABLE), NC (NORMALLY CLOSED), NIC (NOT IN CONTRACT), NO (NORMALLY OPEN), No. (NUMBER), NTS (NOT TO SCALE), NUM (NUMBER), OC (ON CENTER), OD (OUTSIDE DIAMETER OR OVERFLOW DRAIN), OSBY (OUTSIDE SCREW & YOK), PC (PLUMBING CONTRACTOR), PH (PHASE), POS (PROVIDED UNDER OTHER SECTION), PP (POLYPROPYLENE), PRV (PRESSURE REDUCING VALVE), PSI (POUNDS PER SQUARE INCH), PVB (PRESSURE VACUUM BREAKER), PVC (POLYVINYL CHLORIDE), QTY (QUANTITY), RCP (REINFORCED CONCRETE PIPE), REQ'D (REQUIRED), RRPP (REDUCED PRESSURE BACKFLOW PREVENTOR), RPM (REVOLUTIONS PER MINUTE), SCH (SCHEDULE), SF (SQUARE FOOT), ST ST (STAINLESS STEEL), SWH (STEAM WATER HEATER), TOR (TOP OF RISER), TP (TRAP PRIMER), TYP (TYPICAL), VV (VALVE IN VERTICAL), VTR (VENT THROUGH THE ROOF), W (WITH), WHA (WATER HAMMER ARRESTOR), WM (WATER METER).

SYMBOLS - GENERAL

Table of plumbing symbols including AUTO-VENT, BLIND FLANGE, CONNECT TO EXISTING, CAP OR END OF PIPE, CONCENTRIC REDUCER, CONCENTRIC REDUCER, DIRECTION OF FLOW, DIRECTION OF SLOPE, ECCENTRIC REDUCER, ECCENTRIC REDUCER, EXPANSION JOINT, EXPANSION JOINT, FLEXIBLE CONNECTION, HEAT TRACE, HOSE BIBB, HOSE CONNECTION (GENERIC), IN-LINE MIXER, PIPE ANCHOR, PIPE BREAK, PIPE FITTING UP, PIPE FITTING DOWN OR DROP, PIPE FITTING TEE DOWN, PIPE FITTING TEE UP, PIPE SLEEVE OR BEAM PENETRATION, QUICK DISCONNECT - FEMALE, SIGHT GLASS, STRAINER, UNION FITTING, VACUUM RELIEF, WALL HYDRANT, WATER HAMMER ARRESTOR, WATERPROOF SLEEVE, Y STRAINER W/ LOGGED BLOWDOWN, Y STRAINER W/ VALVE.

SYMBOLS - DRAINAGE

Table of drainage symbols including AREA DRAIN, BACK WATER VALVE, CLEANOUT, FLOOR OR GRADE CLEANOUT, FLOOR DRAIN, P TRAP/OPEN END DRAIN, ROOF DRAIN (PRIMARY) / PLANTER DRAIN, ROOF DRAIN (OVERFLOW), TRENCH DRAIN.

SYMBOLS - VALVES

Table of valve symbols including ANGLE VALVE, BALL VALVE, BALANCING VALVE ASSEMBLY, BUTTERFLY VALVE, CHECK VALVE, DIAPHRAGM VALVE (CLOSED), DIAPHRAGM VALVE (OPEN), DOUBLE CHECK VALVE, FOUR WAY VALVE, FUSIBLE LINK VALVE, GAS COCK, GATE VALVE (CLOSED), GATE VALVE (OPEN), KNIFE GATE VALVE, MIXING VALVE, NEEDLE VALVE, NEEDLE VALVE, OSBY VALVE, PINCH VALVE, POST VALVE, PRESSURE REDUCING VALVE, REDUCED PRESSURE BACKFLOW PREVENTOR, SOLENOID VALVE, TEMP. & PRESSURE RELIEF VALVE, THREE WAY BALL VALVE, THREE WAY CONTROL VALVE, TWO WAY CONTROL VALVE, VALVE IN THE VERTICAL.

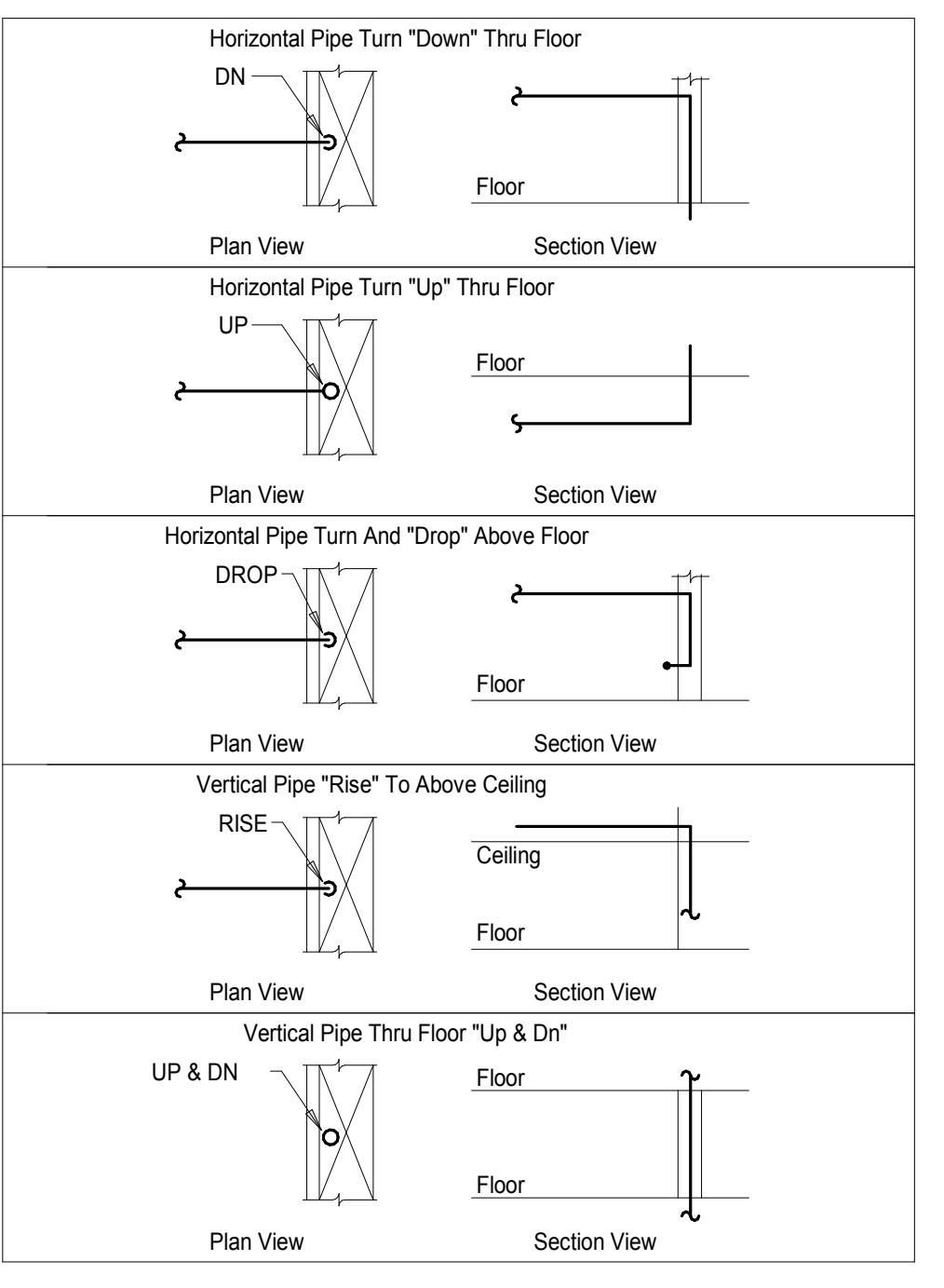
SYMBOLS - INSTRUMENTS

Table of instrument symbols including FLOW METER, FLOW SWITCH, PRESSURE GAUGE W/BALL VALVE, RESISTIVITY METER, TEMPERATURE GAUGE W/BALL VALVE.

PIPE LINETYPES

Table of pipe line types including PIPE (EXISTING), PIPE (ABOVE GRADE), VENT PIPE (ABOVE GRADE), PIPE (BELOW GRADE), VENT PIPE (BELOW GRADE).

PIPE DIRECTION



REFERENCE

Table of reference symbols including DETAIL DESIGNATION NUMBER, DETAIL DESIGNATION DRAWING, RISER SERVICE DESIGNATION, RISER NUMBER DESIGNATION, RISER DESIGNATION DRAWING, SECTION DESIGNATION LETTER, SECTION DESIGNATION DRAWING, EQUIP. SERVICE DESIGNATION, EQUIP. NUMBER DESIGNATION, EQUIP. DESIGNATION DRAWING, EQUIP. SERVICE DESIGNATION, EQUIP. NUMBER DESIGNATION, EQUIP. DESIGNATION DRAWING, KEYNOTE DESIGNATION, HANDICAPPED ACCESSIBLE (HC).

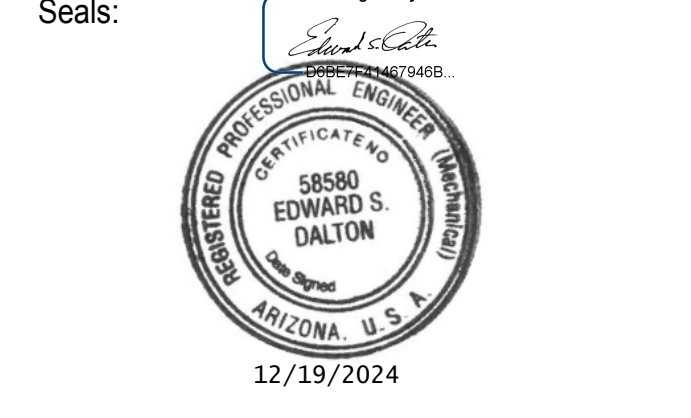
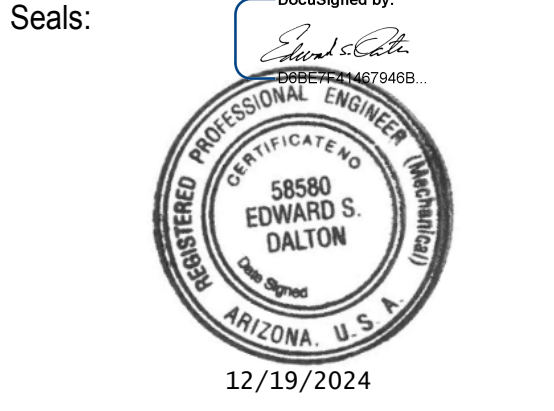


Table with 3 columns: Number, Description, Date. Row 1: 1, Issued for Permit & Construction, 23 DEC 24.

Key Plan: Project North True North



General Notes:

- 1.11 COORDINATION DRAWINGS:
A. A SINGLE SET OF COORDINATION DRAWINGS SHALL BE MUTUALLY...
B. THE INITIATION OF THESE DRAWINGS BEGINS WITH THE SHEET...
C. FABRICATION SHALL NOT START UNTIL COPIES OF COMPLETED...
D. PREPARE SEPARATE COMPOSITE COORDINATION DRAWINGS TO...
E. HOLD REGULAR COORDINATION SESSIONS WITH TRADES...
F. PREPARE SEPARATE COMPOSITE COORDINATION DRAWINGS TO...
G. EACH TRADE IS TO ADJUST THEIR SHOP DRAWINGS BASED ON...
H. INDICATE LOCATIONS WHERE SPACE IS LIMITED FOR...
I. INDICATE SCHEDULING, SEQUENCING, MOVEMENT AND...
J. INDICATE SCHEDULING, SEQUENCING, MOVEMENT AND...
K. INDICATE SCHEDULING, SEQUENCING, MOVEMENT AND...
L. INDICATE SCHEDULING, SEQUENCING, MOVEMENT AND...

- 1.10 SUBMITTALS:
A. SUBMIT UNDER PROVISIONS OF DIVISION 01 SECTIONS "GENERAL...
B. PRODUCT DATA: SUBMIT MANUFACTURER'S TECHNICAL PRODUCT...
C. CHECK CONTRACT DRAWINGS AS WELL AS SHOP DRAWINGS...
D. SUBMITTALS PROCEDURES, CONTENTS AND FORMAT:
1. PREPARE FLOOR SLAB ELEVATIONS AND DETAILS TO...
2. EACH TRADE IS TO ADJUST THEIR SHOP DRAWINGS BASED ON...
3. INDICATE LOCATIONS WHERE SPACE IS LIMITED FOR...
4. INDICATE SCHEDULING, SEQUENCING, MOVEMENT AND...
5. INDICATE SCHEDULING, SEQUENCING, MOVEMENT AND...

- 1.9 FIELD WARRANTIES:
A. GUARANTEE THE WORK OF THIS SECTION IN WRITING FOR ONE...
B. PRIOR TO WORK COMMENCEMENT OF WORK, NOTIFY STATE AND...
C. MATERIALS AND EQUIPMENT SHALL BE MANUFACTURED, INSTALLED...
1.8 CODES, STANDARDS, AUTHORITIES AND PERMITS:
A. PERFORM WORK IN ACCORDANCE WITH RULES, REGULATIONS...
B. CHECK CONTRACT DRAWINGS AS WELL AS SHOP DRAWINGS...
1.7 REQUEST FOR INFORMATION (RFI):
A. WHERE AN RFI IS A REQUEST TO RESOLVE A CONFLICT OR AN...
1.6 MODIFICATIONS IN LAYOUT:
A. MAINTAIN MAXIMUM HEADROOM AT ALL LOCATIONS...
1.5 DISCREPANCIES IN DOCUMENTS:
A. WHERE DRAWINGS OR SPECIFICATIONS CONFLICT OR ARE UNCLEAR...
B. WHERE DRAWINGS OR SPECIFICATIONS DO NOT CONSIDER WITH...
1.4 CONTRACT DOCUMENTS:
A. REFER TO ARCHITECTURAL, FIRE PROTECTION, PLUMBING, HVAC...
1.3 CONTRACT DOCUMENTS:
A. REFER TO ARCHITECTURAL, FIRE PROTECTION, PLUMBING, HVAC...
1.2 DEFINITIONS:
A. "PROVIDE" MEANS "FURNISH AND INSTALL."
B. "FURNISH" MEANS TO PURCHASE AND DELIVER TO THE PROJECT SITE...
1.1 SUMMARY:
A. REQUIREMENTS OF THIS SECTION APPLY TO DIVISION 22 SECTIONS...
B. FULLY COORDINATE WITH WORK OF OTHER SECTIONS...
C. REPAIR OR ALL DAMAGE DONE TO PREMISES AS A RESULT OF...
D. DISASSEMBLY AND RE-ASSEMBLY OF EQUIPMENT FURNISHED...
E. TEMPORARY SCAFFOLDING REQUIRED FOR PERFORMANCE...
F. CUTTING AND CORE DRILLING REQUIRED...
G. PIPE SLEEVES FOR ALL HOLES IN WALLS, FLOORS, AND...
H. WATERPROOFING WHERE NECESSARY FOR INSTALLATION...
I. COOPERATION WITH AND ASSISTANCE TO THE BUILDING...
J. SIZES AND LOCATIONS FOR INSTALLATION OF ANY CURBS...
K. TEMPORARY AND PERMANENT STANDS AND SUPPORTS FOR...
L. PIPING, VALVES AND EQUIPMENT IDENTIFICATION...
M. FIRESTOPPING OF PENETRATIONS OF PIPING, THROUGH...
N. TEMPORARY UTILITIES AS REQUIRED TO INSTALL WORK ON...
O. FEES, PERMITS, INSPECTIONS, TAXES, AND APPROACH FROM...
P. INDICATE THE PROPOSED LOCATIONS, OF PIPING, DUCTWORK...
Q. CLEARANCES FOR INSTALLING AND MAINTAINING...
R. CLEARANCES FOR SERVICING AND MAINTAINING...
S. EQUIPMENT CONNECTIONS AND SUPPORT DETAILS...
T. FIRE-RATED WALL AND FLOOR PENETRATIONS...
U. SIZES AND LOCATION OF REQUIRED CONCRETE PADS...
V. VALVE STEM MOVEMENT...
W. SIZES AND LOCATIONS OF NEW AND EXISTING...
X. SIZES AND LOCATIONS OF NEW OPENINGS EITHER...
Y. MAINTAIN ONE COMPLETE SET OF COMPOSITE COORDINATION...
Z. SUBMIT FINAL COORDINATION DRAWINGS AS PART OF...

022400

PART 1 - GENERAL

- 1.1 SUMMARY:
A. REQUIREMENTS OF THIS SECTION APPLY TO DIVISION 22 SECTIONS...
B. FULLY COORDINATE WITH WORK OF OTHER SECTIONS...
C. REPAIR OR ALL DAMAGE DONE TO PREMISES AS A RESULT OF...
D. DISASSEMBLY AND RE-ASSEMBLY OF EQUIPMENT FURNISHED...
E. TEMPORARY SCAFFOLDING REQUIRED FOR PERFORMANCE...
F. CUTTING AND CORE DRILLING REQUIRED...
G. PIPE SLEEVES FOR ALL HOLES IN WALLS, FLOORS, AND...
H. WATERPROOFING WHERE NECESSARY FOR INSTALLATION...
I. COOPERATION WITH AND ASSISTANCE TO THE BUILDING...
J. SIZES AND LOCATIONS FOR INSTALLATION OF ANY CURBS...
K. TEMPORARY AND PERMANENT STANDS AND SUPPORTS FOR...
L. PIPING, VALVES AND EQUIPMENT IDENTIFICATION...
M. FIRESTOPPING OF PENETRATIONS OF PIPING, THROUGH...
N. TEMPORARY UTILITIES AS REQUIRED TO INSTALL WORK ON...
O. FEES, PERMITS, INSPECTIONS, TAXES, AND APPROACH FROM...
P. INDICATE THE PROPOSED LOCATIONS, OF PIPING, DUCTWORK...
Q. CLEARANCES FOR INSTALLING AND MAINTAINING...
R. CLEARANCES FOR SERVICING AND MAINTAINING...
S. EQUIPMENT CONNECTIONS AND SUPPORT DETAILS...
T. FIRE-RATED WALL AND FLOOR PENETRATIONS...
U. SIZES AND LOCATION OF REQUIRED CONCRETE PADS...
V. VALVE STEM MOVEMENT...
W. SIZES AND LOCATIONS OF NEW AND EXISTING...
X. SIZES AND LOCATIONS OF NEW OPENINGS EITHER...
Y. MAINTAIN ONE COMPLETE SET OF COMPOSITE COORDINATION...
Z. SUBMIT FINAL COORDINATION DRAWINGS AS PART OF...

Page 11

Page 12

Table with columns: WATER PIPING SERVICES, CODE, PIPE MATERIAL, FABRICATION OR JOINING METHOD, VALVES. Includes rows for Potable Hot/Cold HWR Domestic Water and Trap Primer.

Table with columns: DRAINAGE PIPING SERVICES, CODE, PIPE MATERIAL, FABRICATION OR JOINING METHOD, OTHER. Includes row for Sanitary Waste & Vent Above & Below Grade.

Page 14

PART 2 - PRODUCTS

- 2.1 GENERAL:
A. IN ADDITION TO MATERIAL AND EQUIPMENT SPECIFIED...
B. MATERIALS AND EQUIPMENT SHALL BE UNIFORM THROUGHOUT...
2.2 MATERIALS AND SUBSTITUTIONS:
A. COMPLY WITH DIVISION 01 SECTION "GENERAL REQUIREMENTS...
2.3 PLUMBING FIXTURES AND TRIM:
A. REFER TO ARCHITECTURAL AND PLUMBING DRAWINGS...
B. FIXTURE TRIM, TRAPS, FAUCETS, ESCUTCHEONS AND WASTE...
C. PRODUCT INSTALLATION SHALL ADHERE TO MANUFACTURER'S...
D. FIXTURE FITTINGS INTENDED TO DELIVER POTABLE WATER...
2.4 PIPE FITTINGS AND VALVES:
A. ALL PIPE, FITTINGS, AND VALVES USED IN POTABLE WATER...
B. PLASTIC PIPING SYSTEMS: DO NOT USE PLASTIC PIPING...
C. PIPE MATERIALS:
1. PROVIDE ELECTRONICALLY FORMATTED (SEARCHABLE PDF)...
2. PROVIDE VALVE DIRECTORY FOR ALL ISOLATION VALVES...
2.5 SPECIALTY VALVES:
A. BACKFLOW PREVENTERS: 1 REDUCED PRESSURE BACKFLOW...
B. TRAP PRIMER VALVES: MOUNTED STEEL BOX WITH STAINLESS...
2.6 PIPE IDENTIFICATION:
A. PROVIDE COLOR-CODED PIPE IDENTIFICATION MARKERS...
D. VALVE TAGS: UPON COMPLETION OF WORK, ATTACH ENGRAVED...
E. WHERE VALVES ARE INSTALLED IN AN EXISTING BUILDING...
2.7 INSULATION:
A. PROVIDE PVC JACKETS COVERED OVER AND IN ALL MECHANICAL...
B. PROVIDE PVC JACKETS COVERED OVER AND IN ALL MECHANICAL...

Page 13

Project Title: Fidelity INVESTMENTS
Fidelity Real Estate Company
245 Summer Street
Boston, MA 20110

717 E. Paradise Lane
Suite R-120
Scottsdale, AZ 85254

Table with columns: Number, Description, Date. Row 1: Issued for Permit & Construction, 23 DEC 24.

Key Plan: Project North, True North

Project No.: C0115.00
Copyright: 2024 Jacobs Engineering Group, Inc.

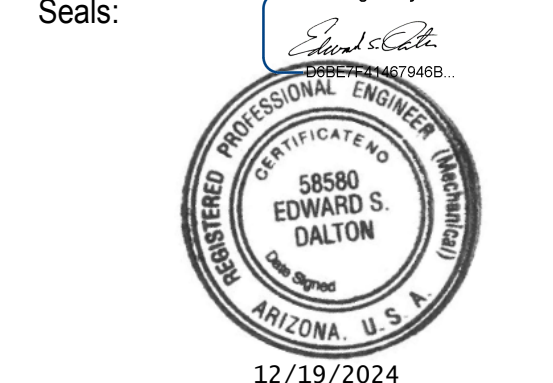
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Drawing Sheet Number: P-002

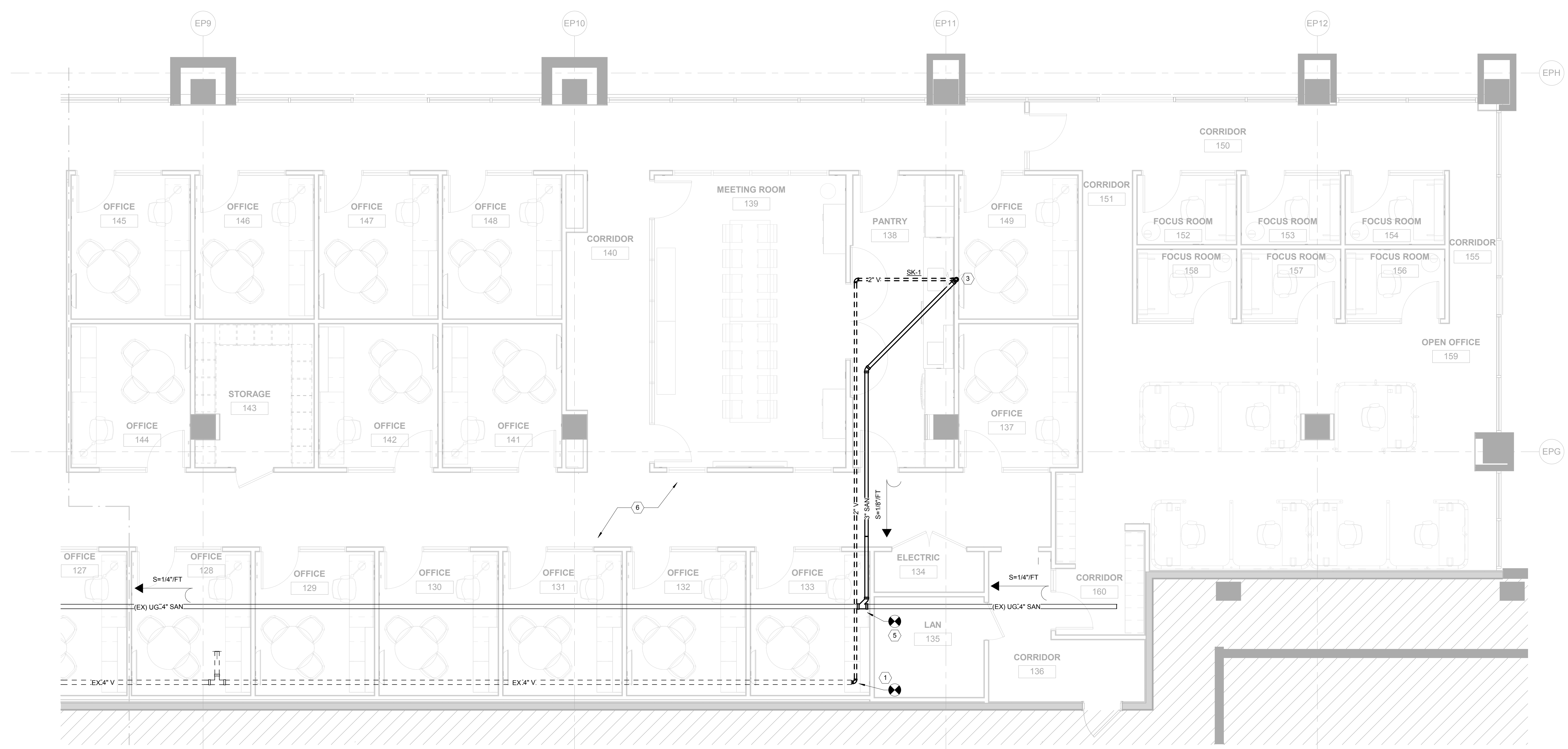
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12/17/2024 11:05:41 AM

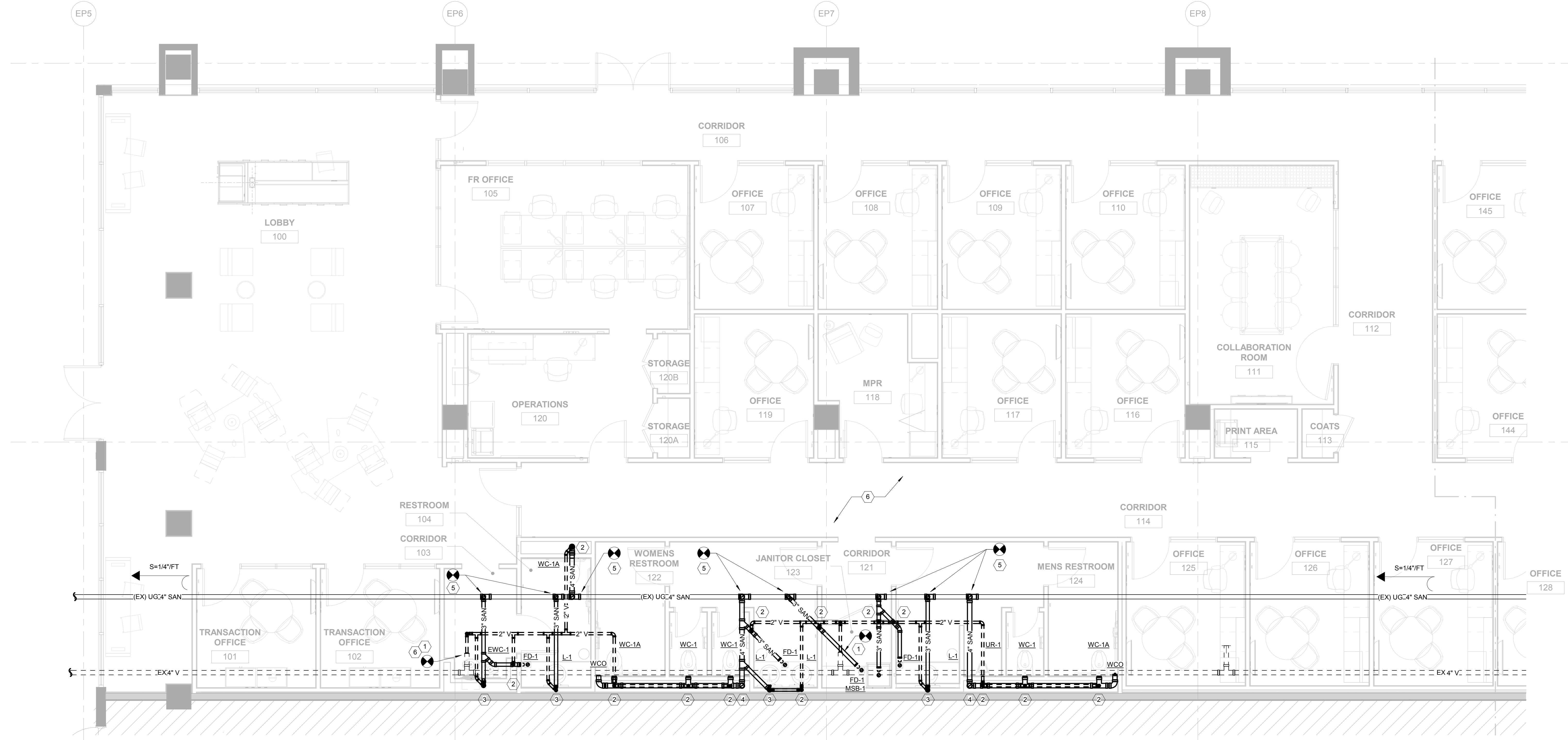
- KEYNOTES:**
- 1 CONNECT TO EXISTING ABOVE CEILING 4" V PIPING IN AREA. CONTRACTOR TO FIELD VERIFY EXACT LOCATION OF EXISTING 4" V PIPING PRIOR TO START OF WORK.
 - 2 2" V UP
 - 3 2" SAN DN
 - 4 4" SAN DN
 - 5 CONNECT TO EXISTING UNDERGROUND 4" SAN PIPING IN AREA. CONTRACTOR TO FIELD VERIFY EXACT LOCATION OF EXISTING 4" SAN PIPING PRIOR TO START OF WORK.
 - 6 ALL EXISTING PVC PIPING PROVIDED BY THE LANDLORD IN THE CEILING PLENUM TO BE FIRE WRAPPED. THIS INCLUDES ALL PIPING THAT IS ASSOCIATED WITH THE RESIDENTIAL UNITS LOCATED ABOVE THE FIDELITY SPACE.



General Notes:



PLUMBING - LEVEL 1 EAST SANITARY PIPING PLAN
1/4" = 1'-0"



PLUMBING - LEVEL 1 WEST SANITARY PIPING PLAN
2 1/4" = 1'-0"



Fidelity Real Estate Company
245 Summer Street
Boston, MA 20110

7171 E. Paradise Lane
Suite R-120
Scottsdale, AZ 85254

Number	Description	Date
1	Issued for Permit & Construction	23 DEC 24

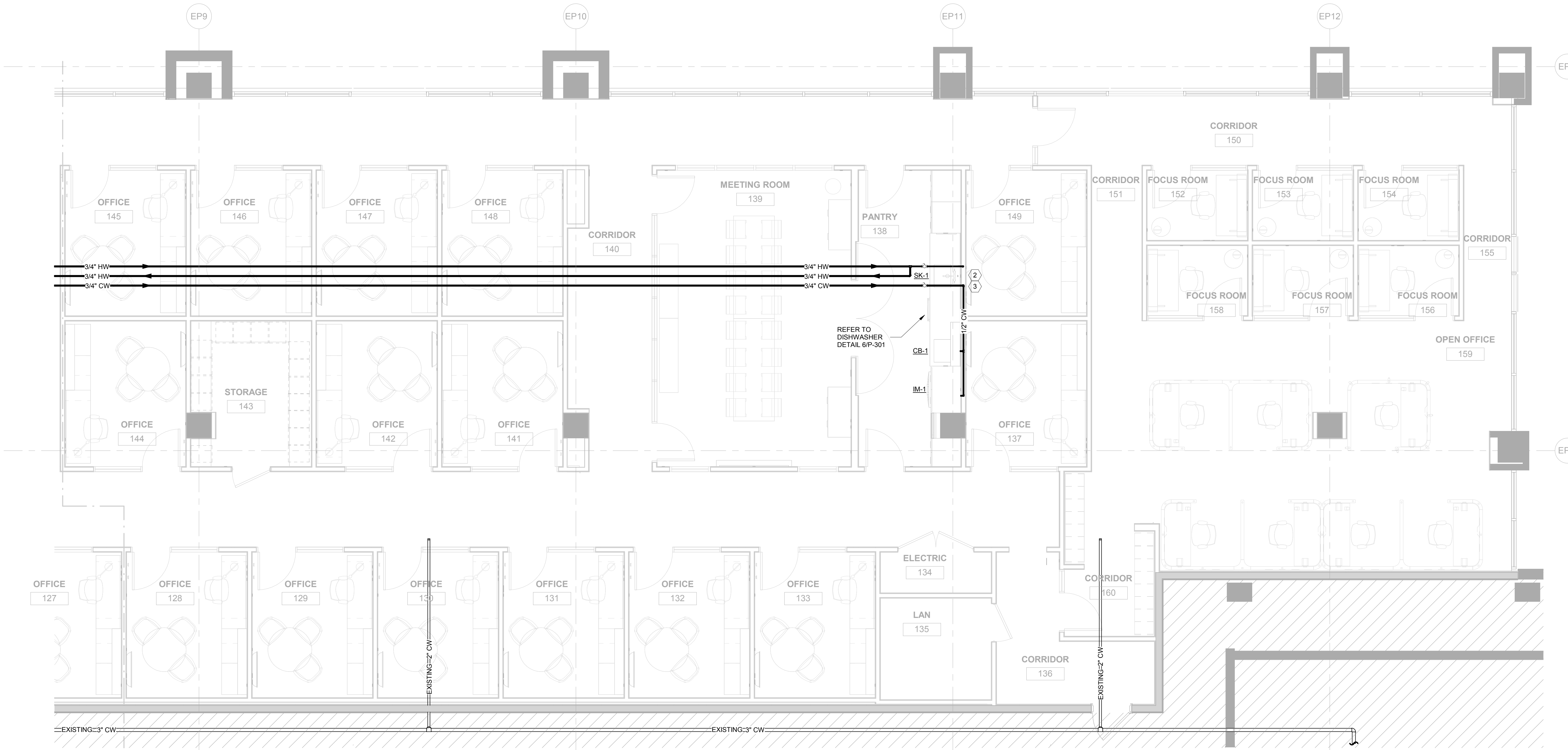
Key Plan:
Project North
True North

Project No.: C0115.00
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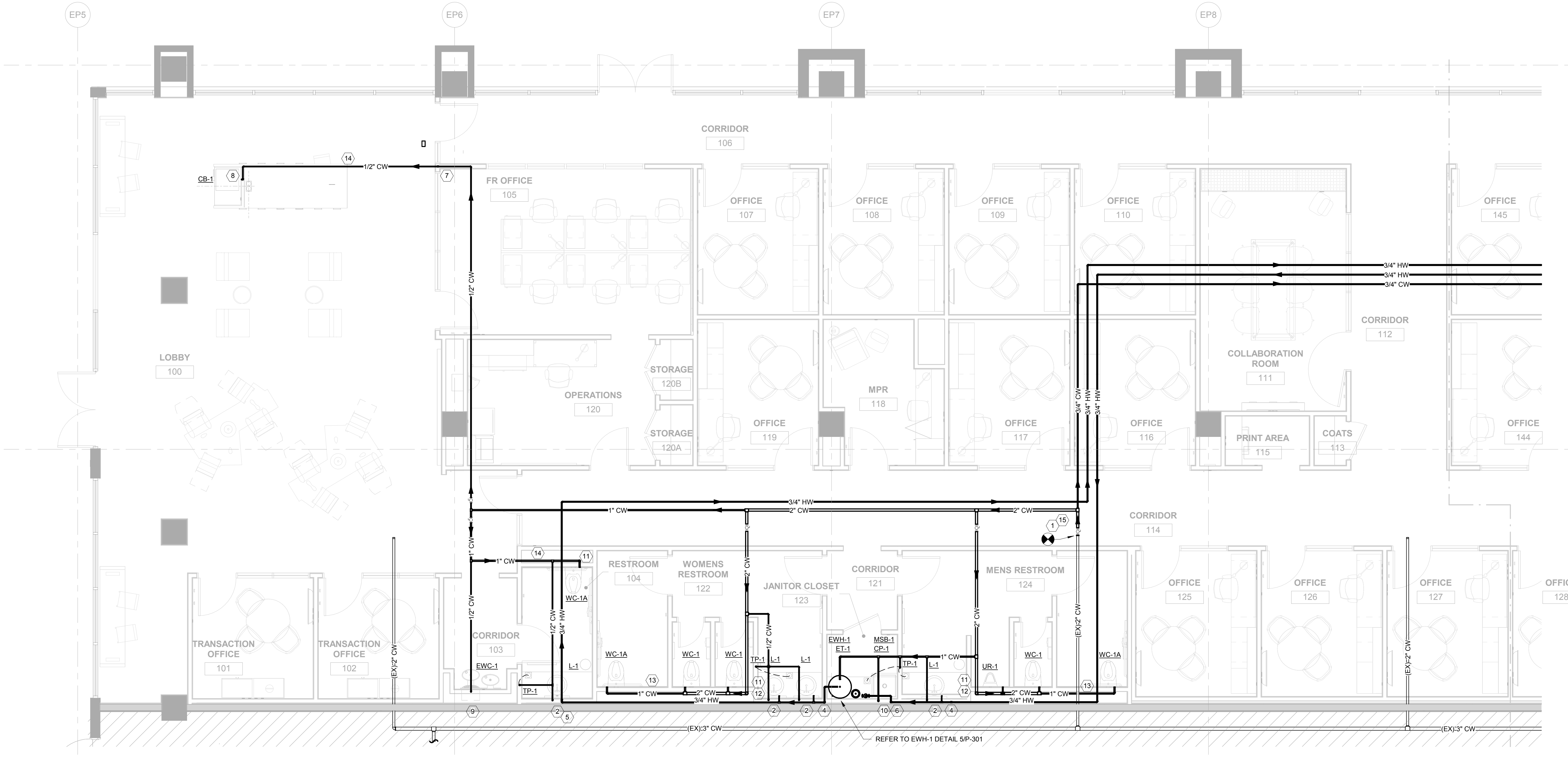
Drawing Sheet Title:
PLUMBING - LEVEL 1 SANITARY PIPING PLAN

Drawing Sheet Number:
P-201

Owner's Branch No.:
134

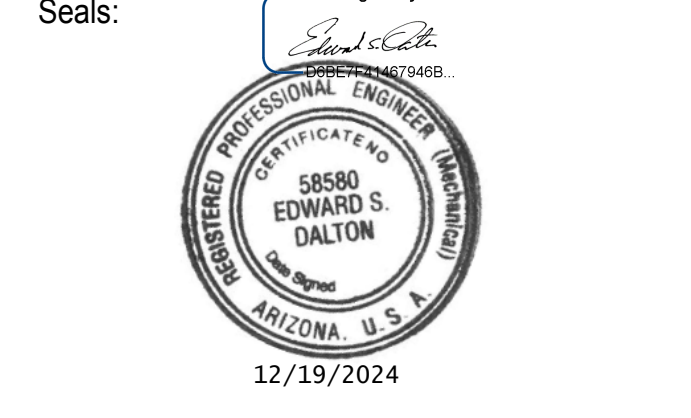


PLUMBING - LEVEL 1 EAST DOMESTIC WATER PIPING PLAN
 1
 1/4" = 1'-0"



PLUMBING - LEVEL 1 WEST DOMESTIC WATER PIPING PLAN
 2
 1/4" = 1'-0"

- KEYNOTES:**
1. CONNECT TO EXISTING CW PIPING IN AREA. CONTRACTOR TO FIELD VERIFY EXACT LOCATION OF EXISTING CW PIPING PRIOR TO START WORK.
 2. 1/2" CW/HW TO FIXTURE
 3. 1/2" CW DN TO EQUIPMENT
 4. 3/4" HW DN
 5. 3/4" HW UP
 6. 1/2" HWR UP
 7. 1/2" CW DN BELOW FLOOR
 8. 1/2" UP TO EQUIPMENT. PROVIDE WATER FILTER BELOW THE COUNTER.
 9. 1/2" CW TO FIXTURE
 10. 3/4" CW/HW TO FIXTURE
 11. 1" CW TO FIXTURE
 12. 2" CW DN CHASE
 13. PROVIDE WHA W/ ACCESS PANEL
 14. 1/2" CW BELOW THE SLAB
 15. LANDLORD TO PROVIDE WATER-SUBMETER



General Notes:

Number	Description	Date
1	Issued for Permit & Construction	23 DEC 24

Key Plan: Project North True North

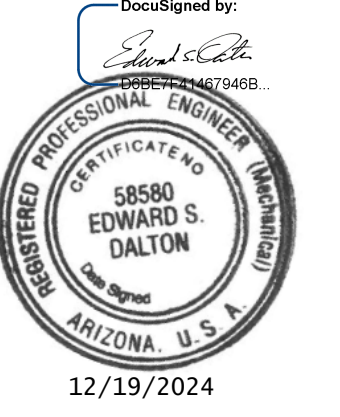


Table with columns: ABB., MANUFACTURER, MODEL, TYPE, FITTING (MANUFACTURER & MODEL, TYPE, SUPPLY), TRAP, LOCATION, NOTES. Lists various fixtures like coffee makers, bottle filling stations, and toilets.

Table with columns: TAG, ABB., DESCRIPTION, TYPE, MANUFACTURER, MODEL, STORAGE CAPACITY, RECOVERY DEC RISE, TEMP SETTING, ELECTRICAL (KW, VOLTAGE), REMARKS. Lists electric water heaters.

Table with columns: TAG, ABB., DESCRIPTION, TYPE, MANUFACTURER, MODEL, DIMENSIONS (HEIGHT, WIDTH), STORAGE CAPACITY, PIPE SIZE, REMARKS. Lists expansion tanks.

Table with columns: TAG, ABB., DESCRIPTION, TYPE, MANUFACTURER, MODEL, FLOW (GPM), ELECTRICAL (VOLTAGE), SYSTEM SERVED, REMARKS. Lists circulation pumps.

Table with columns: TAG, ABB., DESCRIPTION, SIZE, MANUFACTURER, MODEL, OUTLET, STRAINER, REMARKS. Lists floor drains.

Table with columns: VV, ABB., DESCRIPTION, TYPE, MANUFACTURER, MODEL, REMARKS. Lists trap primer valves.

Table with columns: TAG, EQUIP NUM, FIXTURE UNIT, SIZE, REMARKS. Lists water hammer arrestors.

Table with columns: DESCRIPTION, SOIL / WASTE, VENT, COLD WATER, HOT WATER. Lists fixture connections for coffee brewer, cooler, machine, sink, lavatory, basin, and closet.

Table with columns: TAG, EQUIP NUM, FIXTURE UNIT, SIZE, REMARKS. Lists water hammer arrestors.

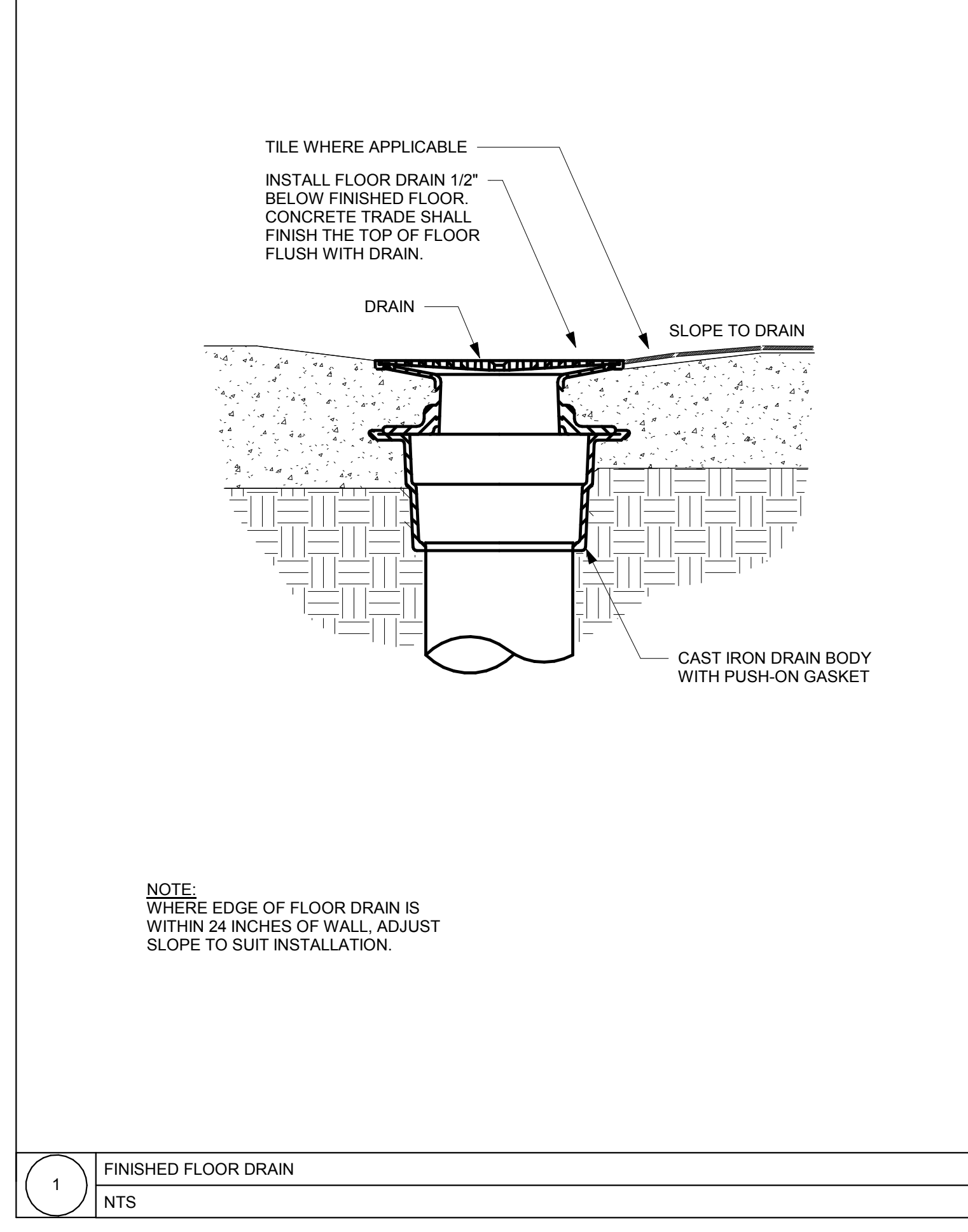
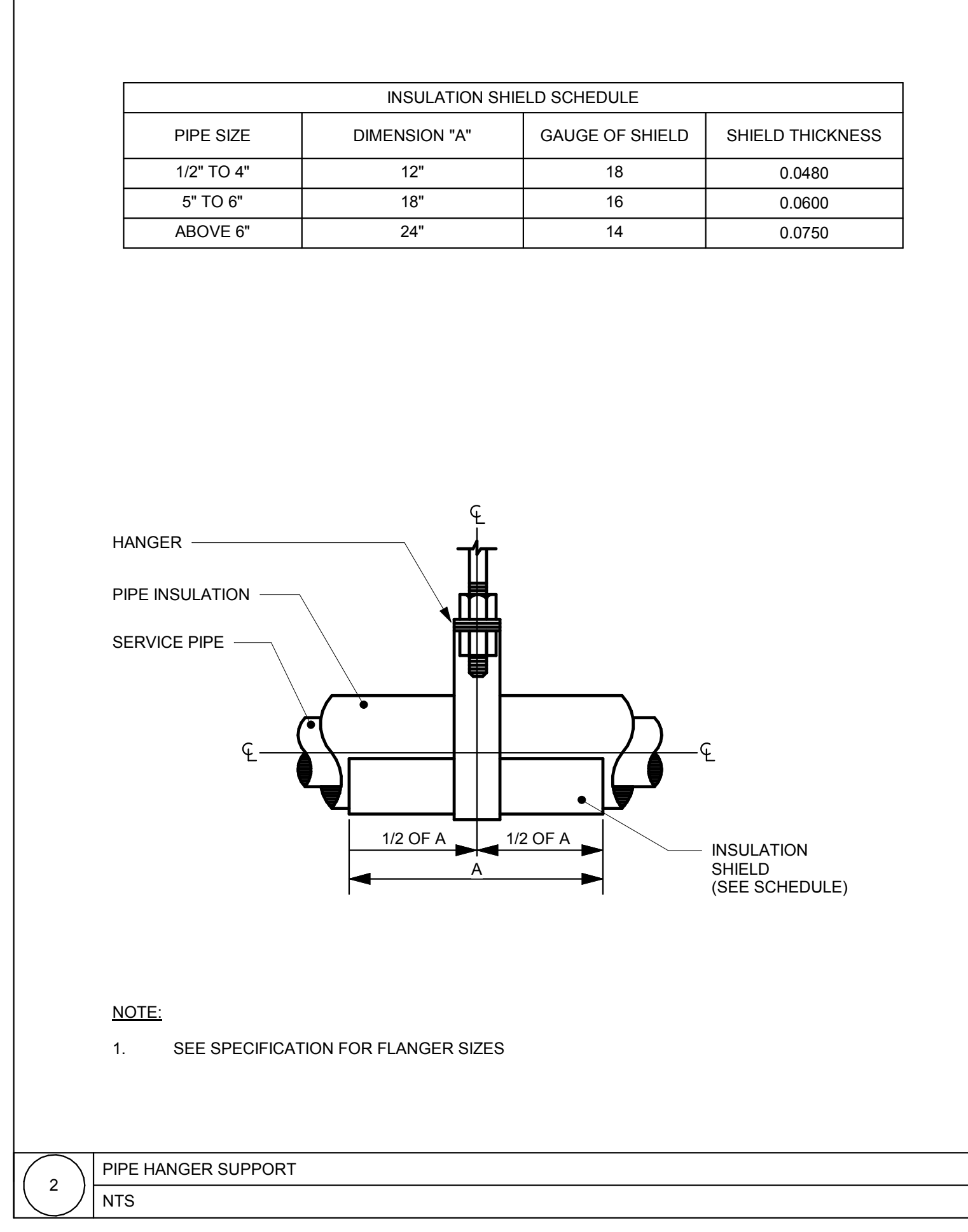
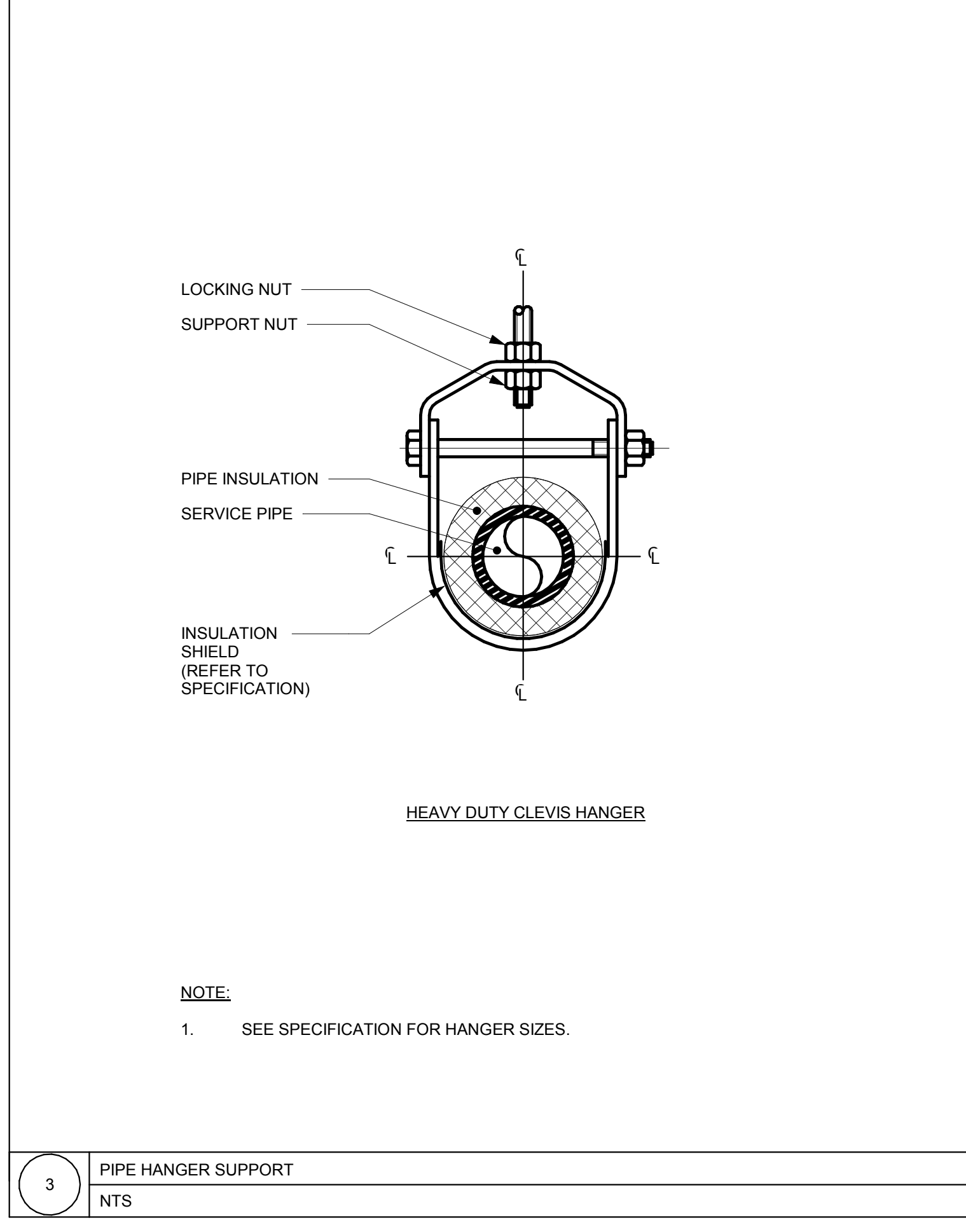
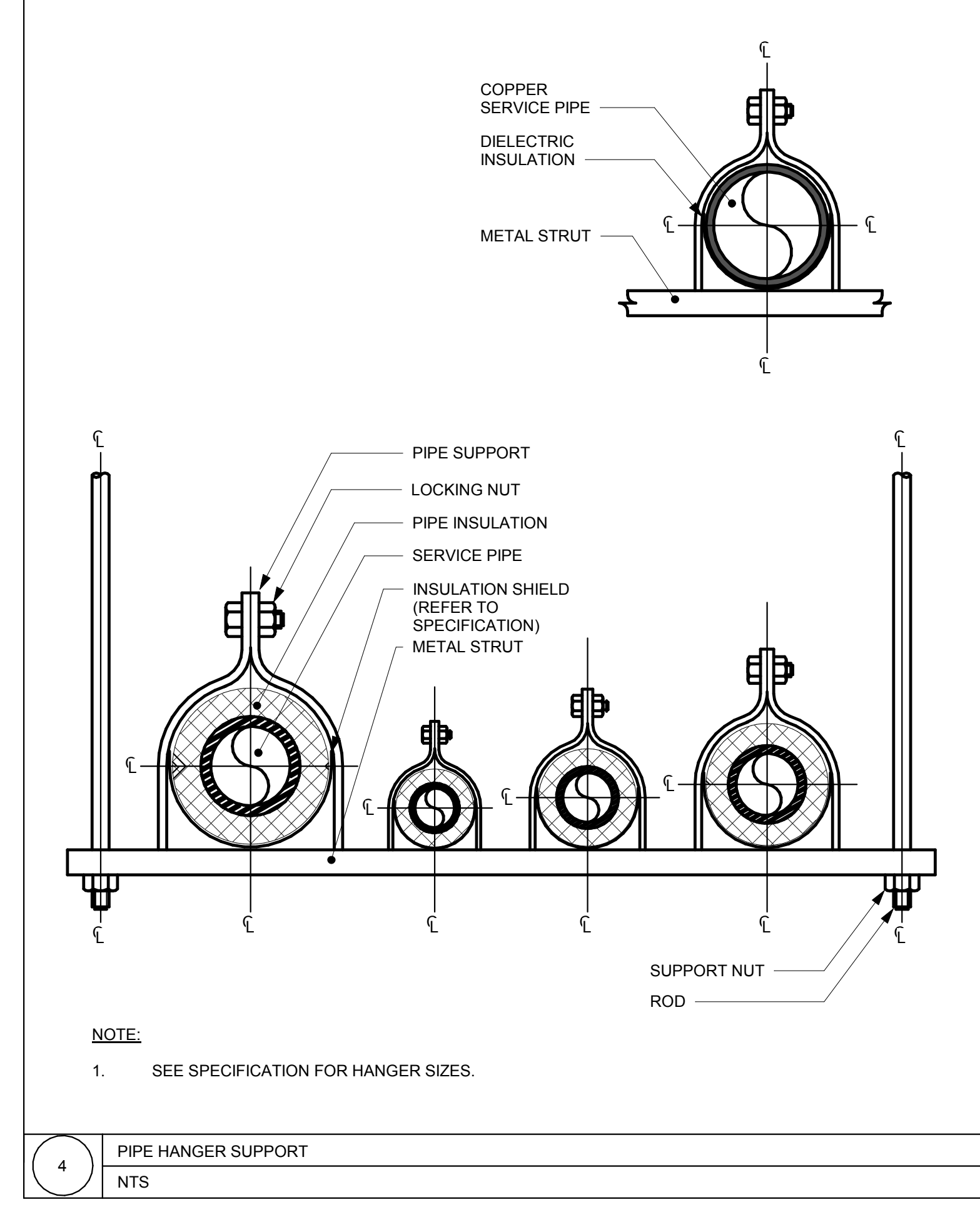
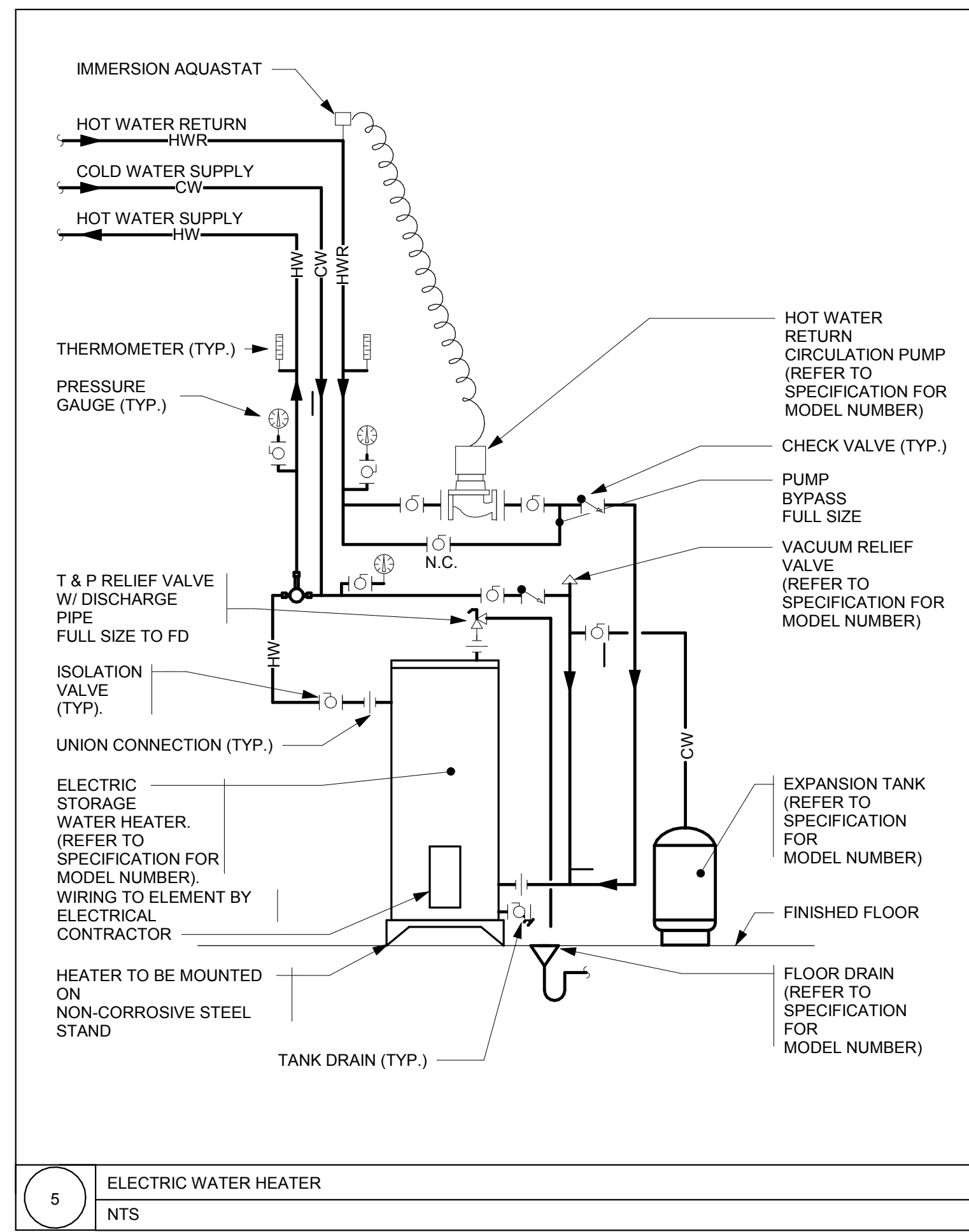
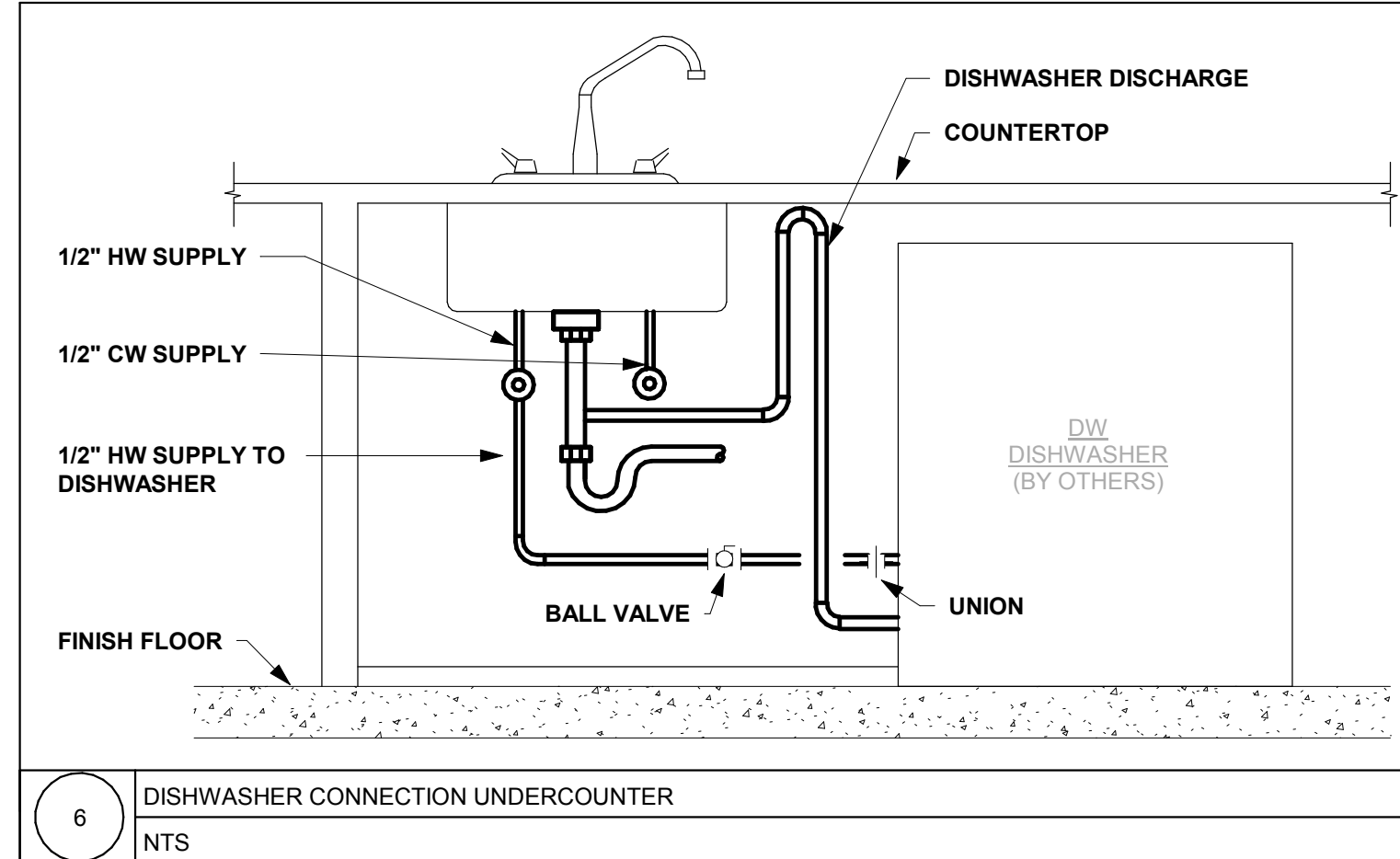
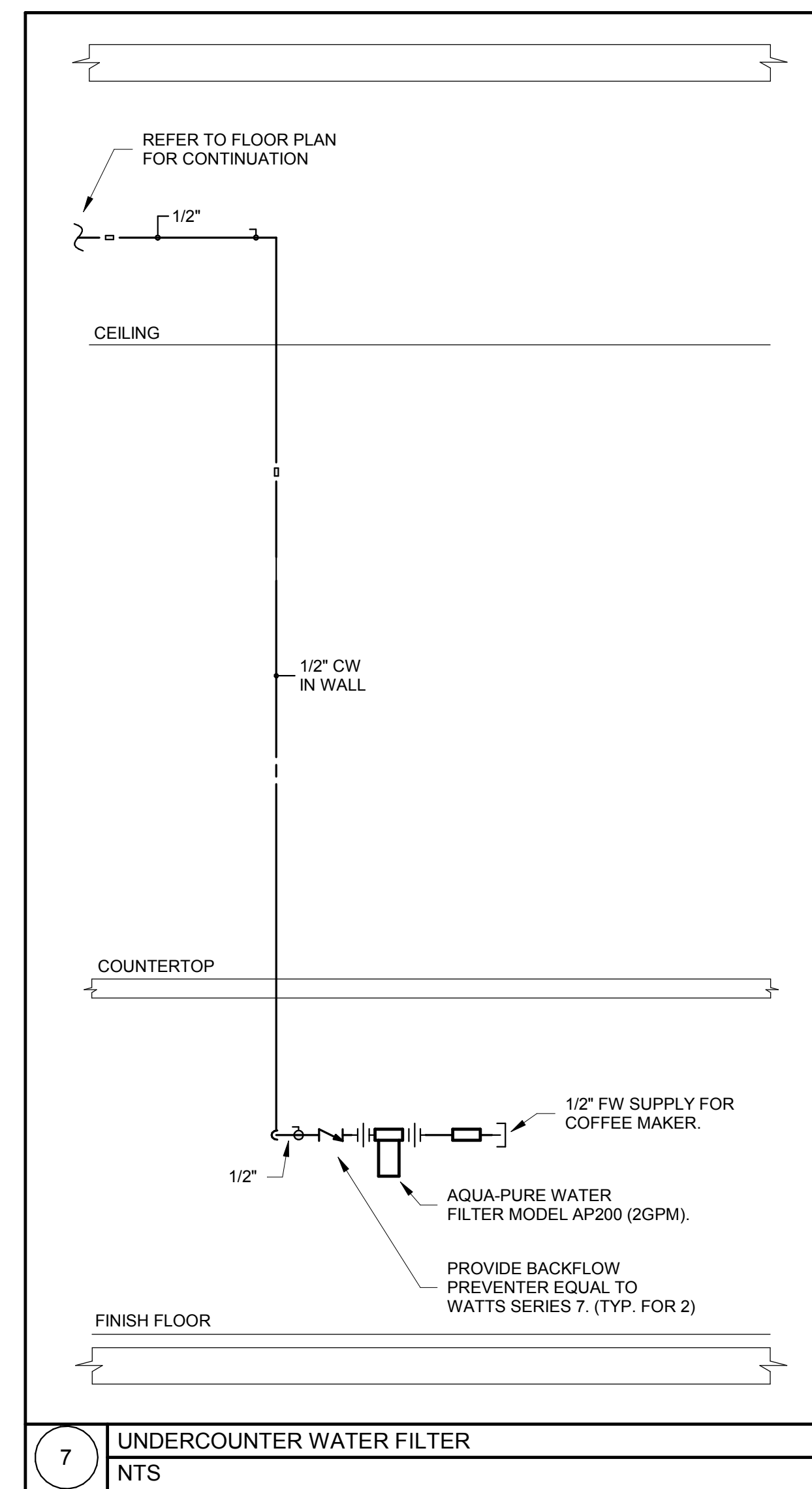


Table with columns: Number, Description, Date. Lists revision 1: Issued for Permit & Construction, 23 DEC 24.

Key Plan: Project North True North

Project No.: C0115.00 Copyright: 2024 Jacobs Engineering Group, Inc.

Drawing Sheet Title: PLUMBING - SCHEDULES AND DETAILS

Drawing Sheet Number: P-301

Owner's Branch No.: 134

SECTION 271000 - STRUCTURED CABLING

PART 1 - GENERAL
1.1 RELATED DOCUMENTS
A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.
B. Where Paragraphs of this Section conflict with similar paragraphs of the General and Supplementary Conditions and Division 1, requirements of this Section shall prevail.
1.2 SUMMARY
A. Description, this project consists of, but is not limited to, the following:
1. A complete and operational horizontal cabling distribution system consisting of:
a. Plenum rated Category 6 / 6A UTP cabling;
b. Associated terminations, connections, connectors, mounts, brackets, enclosures and accessories to ensure a complete system.
2. A 20 year applications and system warranty.
B. Section Includes:
1. Pathways.
2. UTP cable.
3. UTP cable hardware.
4. Grounding.
5. Identification products.
1.3 STANDARDS
A. ANSI/TIA-568-C.0: Generic Telecommunications Cabling for Customer Premises.
B. ANSI/TIA-568-C.1: Commercial Building Telecommunications Cabling Standard
C. ANSI/TIA-568-C.2: Balanced Twisted-Pair Telecommunications Cabling and Components Standards.
D. ANSI/TIA/EIA-569-B: Commercial Building Standard for Telecommunications Pathways and Spaces.
E. ANSI/TIA/EIA-606-A: Administration Standard for the Telecommunications Infrastructure of Commercial Buildings
F. ANSI/J-STD-607-A: Commercial Building Grounding and Bonding Requirements for Telecommunications
G. ANSI/TIA-1152, Requirements for Field Test Instruments and Measurements for Balance Twisted-Pair Cabling.
1.4 DEFINITIONS
A. ANSI: American National Standards Institute.
B. BICSI: Building Industry Consulting Service International.
C. Cross-Connect: A facility enabling the termination of cable elements and their interconnection or cross-connection.
D. EIA: Electronic Industries Alliance.
E. EMI: Electromagnetic interference.
F. ER: Equipment Room.
G. HC: Horizontal Cross-Connect
H. IDC: Insulation displacement connector.
I. ITSIM: Information Technology Systems Installation Methods Manual
J. LAN: Local area network.
K. Outlet/Connectors: A connecting device in the work area on which horizontal cable terminates.
L. RCDD: Registered Communications Distribution Designer.
M. TIA: Telecommunications Industry Association.
N. TDM: Telecommunications Distribution Methods Manual.
O. TR: Telecommunications Room.
P. UTP: Unshielded twisted pair.
1.5 ADMINISTRATIVE REQUIREMENTS
A. Coordinate layout and installation of telecommunications cabling with Owner, Architect and architectural drawings and elevations.
B. Review the related drawings and specifications for other trades/sections, including but not limited to: Architectural, Mechanical, Electrical, Electrical, Structural and Civil.
C. Coordinate telecommunications outlet/connector locations with location of power receptacles.
1.6 ACTION SUBMITTALS
A. Shop Drawings:
1. System Labeling Schedules: Electronic copy of labeling schedules, in software and format selected by Owner.
2. Electronic form cabling administration drawings.
3. Wiring diagrams for each system and subsystem to show typical wiring schematics, including the following:
a. Cross-connections.
b. Horizontal cable.
c. Patch panels.
d. Patch cords and work area cords.
4. Cross-connections and patch panels: Detail mounting assemblies, and show elevations and physical relationship between the installed components.
1.7 INFORMATIONAL SUBMITTALS
A. Qualification Data: For Installer, qualified layout technician, installation supervisor, and field inspector.
B. Submit documentation regarding the manufacturer's warranty. The documentation will include a sample of the warranty that would be provided to the customer when the installation is complete and documentation of the support procedure for warranty issues. Provide an application assurance manual documenting the vendor supported applications and application guidelines. In addition the contractor will furnish manufacturer's documentation stating the contractor is certified to perform warranty work.
1.8 CLOSEOUT SUBMITTALS
A. Submit, upon completion of the installation:
1. Electronic copies of complete operating manuals and user guide for each system and record drawings. Instructions must include part numbers and names, addresses, and telephone numbers of parts source.
2. Test reports, as specified in field quality control article under execution, on CDs using excel or other similar software. If the software used to document test results is proprietary, than the contractor will include the necessary software and licenses to read and store the test results.
3. Electronic floor plans showing communications outlets and identification numbers for each system. Submit completed cable schedules for each cable by system, using the final room numbers. This submittal must be approved prior to authorization for final payment.
1.9 QUALITY ASSURANCE
A. Installer Qualifications: Cabling Installer must have personnel certified by BICSI on staff.
1. Project Manager: Shall be an RCDD.
2. Layout Responsibility: Preparation of Shop Drawings, Cabling Administration Drawings, and field testing program development by an RCDD.
3. Installation Supervision: Installation shall be under the direct supervision of BICSI Certified ITS Technician, who shall be present at all times when Work of this Section is performed at Project site.

SECTION 271000 - STRUCTURED CABLING

B. Provide evidence that the contractor is authorized by the manufacturer to furnish warranty services, components, and systems.
C. Provide and/or warranty section a warranty for all parts, components, and materials against defects, faulty workmanship, and/or failure for one full year following system(s) acceptance.
D. Meet with designated representative of the owner, architect and consultant for coordination meeting prior to commencement of work.
1.10 DELIVERY, STORAGE, AND HANDLING
A. Schedule, arrange, and coordinate with involved parties/trades for shipment, arrivals, loading dock, elevators (as applicable), acceptance, storage, and security of equipment and materials. Assure that these activities do not interfere with other trades or the progress of this project.
B. Store and protect materials according to manufacturer's specifications and recommendations.
1.11 WARRANTY
A. Extended Warranty: Manufacturer's standard form in which manufacturer agrees to repair or place horizontal UTP cabling and components that fail within specified warranty period.
1. Warranty Period: Twenty years from date of Substantial Completion.
PART 2 - PRODUCTS
2.1 PATHWAYS
A. General Requirements: Comply with ANSI/TIA/EIA-569-B.
B. Cable Support: Cable supports shall be sized to allow a fill ratio that meets the standards specified herein and identified to support the Category of cabling being installed, designed to prevent degradation of cable performance and pinch points that could damage cable.
1. Spools, J-hooks, Velcro straps and D-rings.
2.2 UTP CABLE
A. Manufacturers: Provide products as noted on plan.
B. Horizontal Cabling Description: 100-ohm, four-pair UTP, covered with a thermoplastic jacket.
1. Provide the following colors as shown on plan:
C. Patch and Work Area Cords Description: Provide patch cords as noted on plan
2.3 UTP CABLE HARDWARE
A. Manufacturers: Provide products as noted on plan.
B. Patch Panel: modular panels housing multiple-numbered jack units with IDC-type connectors at each jack for permanent termination of pair groups of installed cables.
1. Number of Jacks per Field: One for each four-pair UTP cable indicated, plus 25 percent spare per system or as shown on the plan set.
C. Telecommunications Outlet Connectors: 100-ohm, Modular, color-coded, 8-position 8-contact, twisted-pair connector.
a. Color: Match cable color.
b. Icon: Indicate service provided.
D. Workstation Faceplate: Multi-port-connector assemblies mounted in double gang faceplate.
1. Plastic Faceplate: High-impact plastic.
2. For use with snap-in jacks.
a. Flush mounting jacks.
3. Legend: Machine printed, in the field, using adhesive-tape label.
2.4 IDENTIFICATION PRODUCTS
A. Comply with ANSI/TIA/EIA-606-A for labeling materials, including label stocks, laminating adhesives, and inks used by label printers.
PART 3 - EXECUTION
3.1 WIRING METHODS
A. Install cables in pathways and cable trays except within consoles, cabinets, desks, and counters and except in accessible ceiling spaces and in gypsum board partitions where unenclosed wiring method may be used unless otherwise noted. Conceal pathways and cables unless otherwise noted.
3.2 INSTALLATION OF CABLES
A. Comply with NECA 1.
B. Four pair UTP cabling wiring scheme: T568B.
C. General Requirements for Cabling:
1. Comply with ANSI/TIA-568-C.1.
2. Comply with BICSI ITSIM, Cable Termination Practices.
3. Install 110-style IDC termination hardware unless otherwise indicated.
4. Terminate conductors; no cable shall contain unterminated elements unless otherwise noted. Make terminations only at indicated outlets, terminals, cross-connections, and patch panels.
5. Cables may not be spliced. Secure and support cables at intervals not exceeding 5 feet. Install lacing bars to restrain cables, to prevent straining connections, and to prevent bending cables to smaller radii than minimums recommended by manufacturer.
6. Bundle, lace, and train conductors to terminal points without exceeding manufacturer's limitations on bending radii, but not less than radii specified in BICSI ITSIM, "Cabling Termination Practices" Chapter. Install lacing bars and distribution spools.
7. Install conductors parallel with or at right angles to sides and back of enclosure.
8. Do not install bruised, kinked, scored, deformed, or abraded cable. Do not splice cable between termination, tap, or junction points. Remove and discard cable if damaged during installation and replace it with new cable.
9. Cold-Weather Installation: Bring cable to room temperature before derating. Heat lamps shall not be used for heating.
10. Route cables, in bundles of no more than fifty. Bundle cables using Hook and Loop wire management straps, tie wraps are not acceptable.
11. In the communications equipment room, install a 10 foot long cable service loop.
12. In the ceiling above the work area outlet, install a 3 foot long cable service loop.
13. Pulling Cable: Comply with BICSI ITSIM, monitor cable pull tensions.
D. Group connecting hardware for cables into separate logical fields.
E. Separation from EMI Sources:
1. Comply with BICSI TDM and ANSI/TIA-569-B for separating unshielded copper voice and data communication cable from potential EMI sources, including electrical power lines and equipment.
2. Separation between open communications cables or cables in nonmetallic raceways and unshielded power conductors and electrical equipment shall be as follows:
a. Electrical Equipment Rating Less Than 2 kVA: A minimum of 5 inches.
b. Electrical Equipment Rating between 2 and 5 kVA: A minimum of 12 inches.

SECTION 271000 - STRUCTURED CABLING

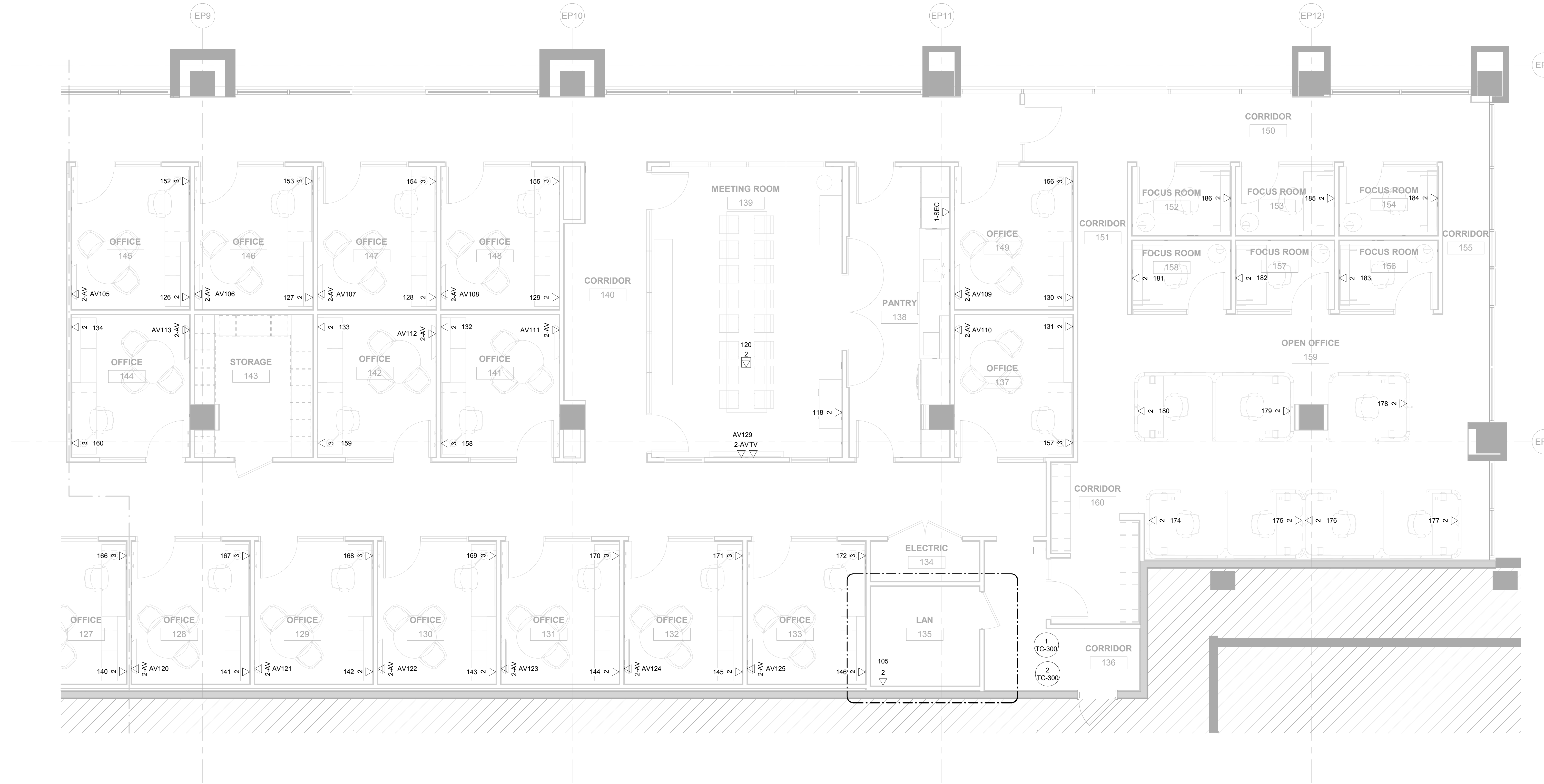
c. Electrical Equipment Rating More Than 5 kVA: A minimum of 24 inches.
3. Separation between communications cables in grounded metallic raceways and unshielded power lines or electrical equipment shall be as follows:
a. Electrical Equipment Rating Less Than 2 kVA: A minimum of 2-1/2 inches.
b. Electrical Equipment Rating between 2 and 5 kVA: A minimum of 6 inches.
c. Electrical Equipment Rating More Than 5 kVA: A minimum of 12 inches.
4. Separation between communications cables in grounded metallic raceways and power lines and electrical equipment located in grounded metallic conduits or enclosures shall be as follows:
a. Electrical Equipment Rating Less Than 2 kVA: No requirement.
b. Electrical Equipment Rating between 2 and 5 kVA: A minimum of 3 inches.
c. Electrical Equipment Rating More Than 5 kVA: A minimum of 6 inches.
5. Separation between Communications Cables and Electrical Motors and Transformers, 5 kVA or HP and Larger: A minimum of 48 inches.
6. Separation between Communications Cables and Fluorescent Fixtures: A minimum of 5 inches.
3.3 FIRESTOPPING
A. Comply with requirements in Section 078413 "Penetration Firestopping."
B. Comply with ANSI/TIA-569-B, Annex A, "Firestopping."
C. Comply with BICSI TDM, "Firestopping Systems" Article.
3.4 GROUNDING
A. Install grounding according to BICSI TDM, "Bonding and Grounding (Earthing)" Chapter.
B. Comply with ANSI/J-STD-607-A.
3.5 IDENTIFICATION
A. Identify system components, wiring, and cabling complying with ANSI/TIA/EIA-606-A.
1. Administration Class: 2.
2. Color-code cross-connect fields. Apply colors to voice and data service backboards, connections, covers, and labels.
B. Paint and label colors for equipment identification shall comply with ANSI/TIA/EIA-606-A for Class 2 level of administration.
C. Cable Schedule: Post in prominent location in communications each equipment room. List incoming and outgoing cables and their designations, origins, and destinations. Protect with rigid frame and clear plastic cover. Furnish an electronic copy of final comprehensive schedules for Project.
D. Cabling Administration Drawings: Show building floor plans with cabling administration-point labeling. Identify labeling convention and show labels for telecommunications closets, hardware, horizontal cables, work areas, grounding buses and pathways, and equipment grounding conductors. Follow convention of ANSI/TIA/EIA-606-A. Furnish electronic record of all drawings, in software and format selected by Owner.
E. Cable Identification:
1. Label each horizontal cable within 4 inches of each termination, where it is accessible in a rack, cabinet, junction box or outlet box.
2. Identification within Connector Fields in Equipment Rooms and Wiring Closets: Prior to labeling, coordinate with owner for labeling scheme. Label each connector, faceplate, 110-block or other connecting hardware.
F. Labels shall be pre-printed or computer-printed type with priming area and font color that contrasts with cable jacket color but still complies with requirements in ANSI/TIA/EIA-606-A.
1. Cables use flexible vinyl or polyester that flex as cables are bent.
3.6 FIELD QUALITY CONTROL
A. Perform the following tests and inspections:
1. Visually inspect cable jacket materials for NRTL certification markings. Inspect cabling terminations in communications equipment rooms for compliance with color-coding for pin assignments, and inspect cabling connections for compliance with standards.
2. Visually confirm correct marking of outlets, cover plates, outlet/connectors, and patch panels.
3. Visually inspect cable placement, cable termination, grounding and bonding, equipment, patch cords and work area cords, and labeling of all components.
4. Test instruments shall meet or exceed applicable requirements in standards specified herein.
5. Horizontal UTP Performance Tests:
a. Test for each outlet. Perform the following tests according to ANSI/TIA-568-C.2:
1) Wire map.
2) Length (physical vs. electrical, and length requirements).
3) DC loop resistance.
4) Return loss.
5) Insertion loss.
6) ACRF.
7) PSAACRF.
8) Propagation delay skew.
9) PSANEXT loss.
10) Average PSANEXT loss.
11) PSAACRF.
12) Average PSAACRF loss.
13) Return loss.
14) Propagation delay.
B. End-to-end cabling will be considered defective if it does not pass tests and inspections.
C. Prepare test and inspection reports.
3.7 CLEANING
A. Clean equipment any work areas prior to presentation for acceptance by client. This work will include wiping of work areas, removal of streaks, dust, stains, etc., and assurances that systems and components as represented are new and undamaged.
3.8 DEMONSTRATION
A. Train Owner's maintenance personnel in cable-plant management operations, including changing signal pathways for different workstations, rerouting signals in failed cables, and keeping records of cabling assignments and revisions when extending wiring to establish new workstation outlets.
3.9 SYSTEM ACCEPTANCE
A. Obtain written acceptance from the owner or the owner's representative at the completion of system installation, testing, documentation and training. Failure of the contractor to obtain sign off will result in the contractor remaining responsible for extending, at no charge to the owner, conditions of the warranty and guarantees until such time that sign off had occurred. Time included in the above condition will be presented to the owner in addition to the standard warranties.



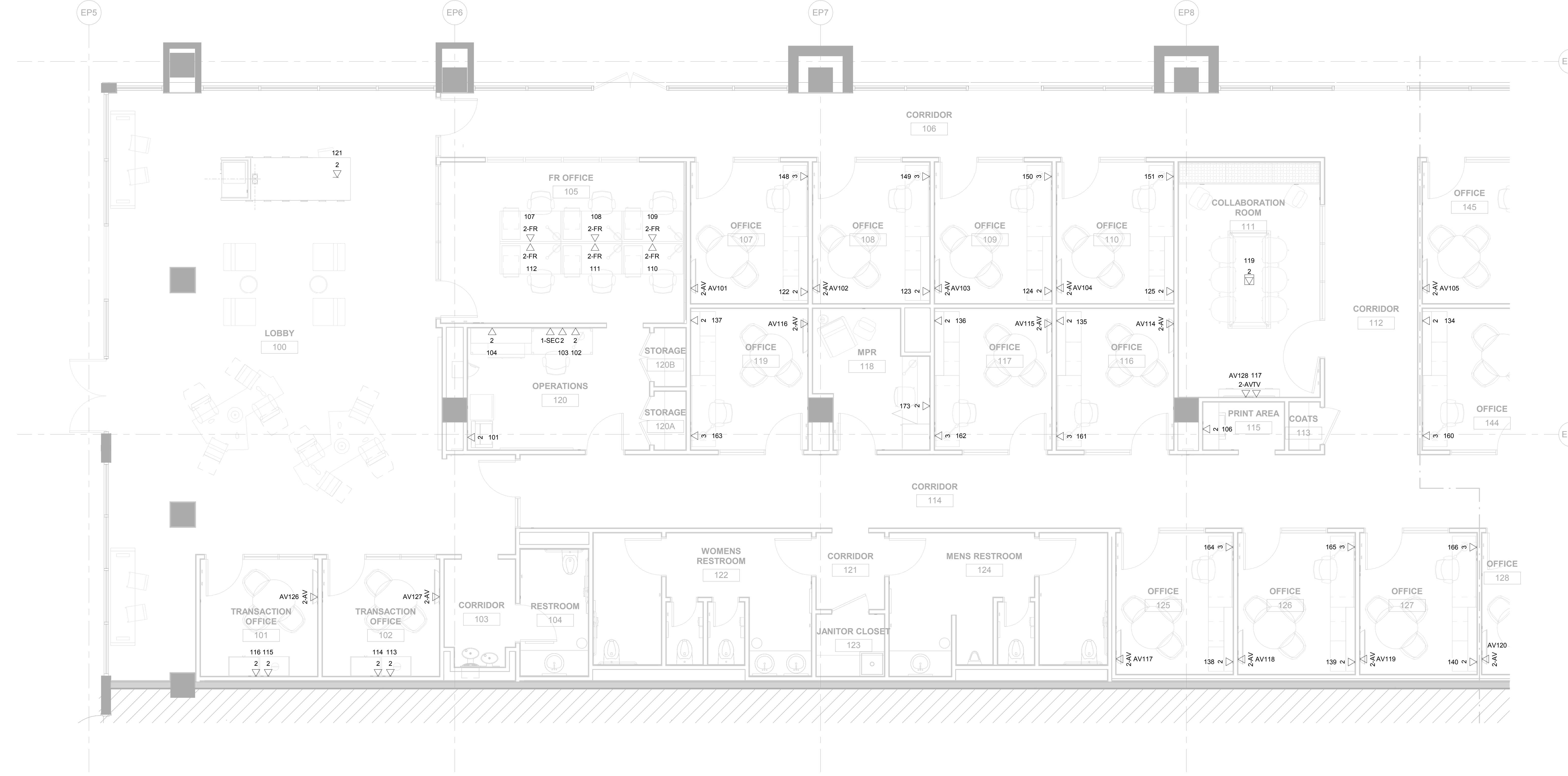
Table with 3 columns: Number, Description, Date. Row 1: 1, Issued for Permit & Construction, 23 DEC 24.

SHEET NOTES:

- FOR GENERAL LEGEND, NOTES AND ABBREVIATIONS REFER TO TELECOM DRAWING TC-000.
- REFER TO ARCHITECTURAL DRAWINGS FOR ASSOCIATED NOTES, MOUNTING DETAILS, HEIGHTS AND EXACT LOCATIONS OF ALL DEVICES.
- ALL TELECOM OUTLETS SHALL BE WIRED BACK TO THE LAN ROOM.
- THIS CONTRACTOR SHALL COORDINATE EXACT CABLE TERMINATIONS TO AND WITHIN ALL CONFERENCE ROOM TABLES WITH ARCHITECT, AV VENDOR, AND TABLE VENDOR PRIOR TO CABLE TERMINATION.
- PROVIDE RG6 COAX CABLE TO NEW TV OUTLET LOCATIONS. PROVIDE RG11 FOR DISTANCES THAT EXCEED 150 FT.
- PROVIDE GREEN 3RD CABLE FOR VIDEO MONITOR. TERMINATE GREEN CABLE ON CCTV PATCH PANEL. VIDEO MONITOR CABLE SHALL NOT BE PATCHED THROUGH AT THE CCTV BACK END. THESE LOCATIONS WILL REQUIRE MOVING THE CCTV MONITOR PATCH CABLE IF NECESSARY BY FIDELITY.
- REFER TO SECURITY DRAWINGS FOR CCTV VIDEO CAMERA SPECIFICATIONS. PROVIDE SURFACE MOUNTED BOX AT ALL SECURITY CAMERA LOCATIONS.
- TELECOM OUTLETS WITHIN OPERATIONS ROOM COUNTER SHALL BE MOUNTED IN SURFACE MOUNTED POWER/TELECOM RACEWAY. PROVIDE APPROPRIATE WIREMOLD 500 SERIES FITTINGS TO ACCOMMODATE TELECOM MODULAR INSERTS.
- WIRELESS ACCESS POINT OUTLET SHALL BE LOCATED ABOVE THE CEILING. PROVIDE 25 FEET OF SLACK ABOVE CEILING. CONTRACTOR SHALL PROVIDE PLENUM RATED COMPONENTS WHERE REQUIRED. CONTRACTOR SHALL INSTALL FIDELITY PROVIDED WIRELESS ACCESS POINT AT THE CENTER OF THE CEILING TILE PER MOUNTING DETAIL.
- TELECOM OUTLETS SHALL BE MOUNTED IN WIREMOLD EVOLUTION WALL BOX EFSBX. PROVIDE APPROPRIATE FITTINGS TO ACCOMMODATE THE TELECOM MODULAR INSERTS. ROUTE COAXIAL CABLES THRU AV CONDUIT AND TERMINATE WITH F-CONNECTORS.



1 TELECOM - LEVEL 1 EAST
1/4" = 1'-0"



2 TELECOM - LEVEL 1 WEST
1/4" = 1'-0"

Project Title:

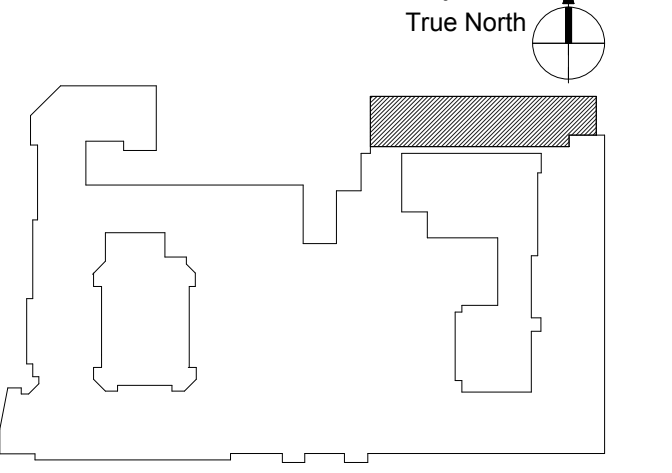


Fidelity Real Estate Company
245 Summer Street
Boston, MA 20110

7171 E. Paradise Lane
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Number	Description	Date
1	Issued for Permit & Construction	23 DEC 24

Key Plan:

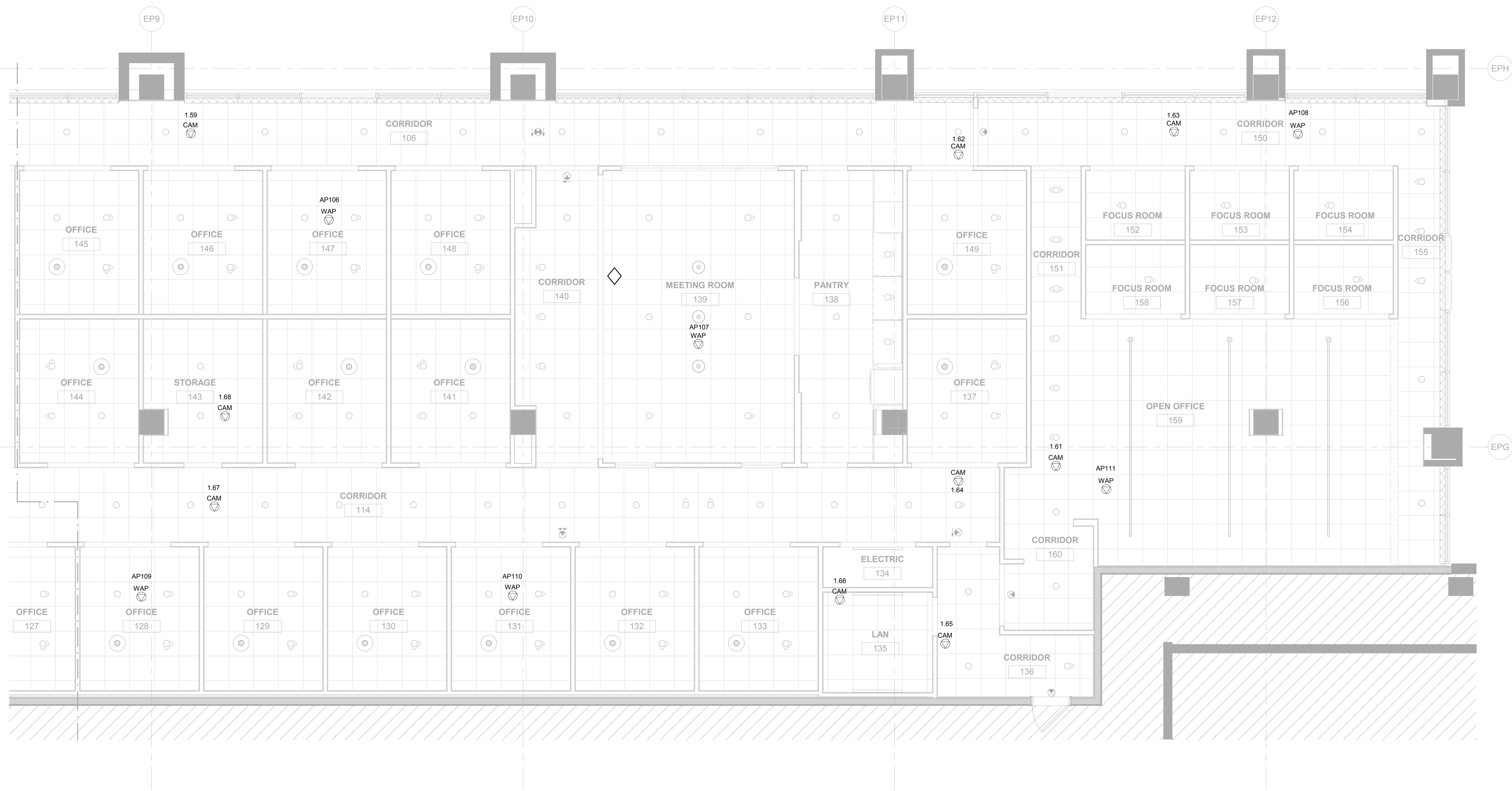


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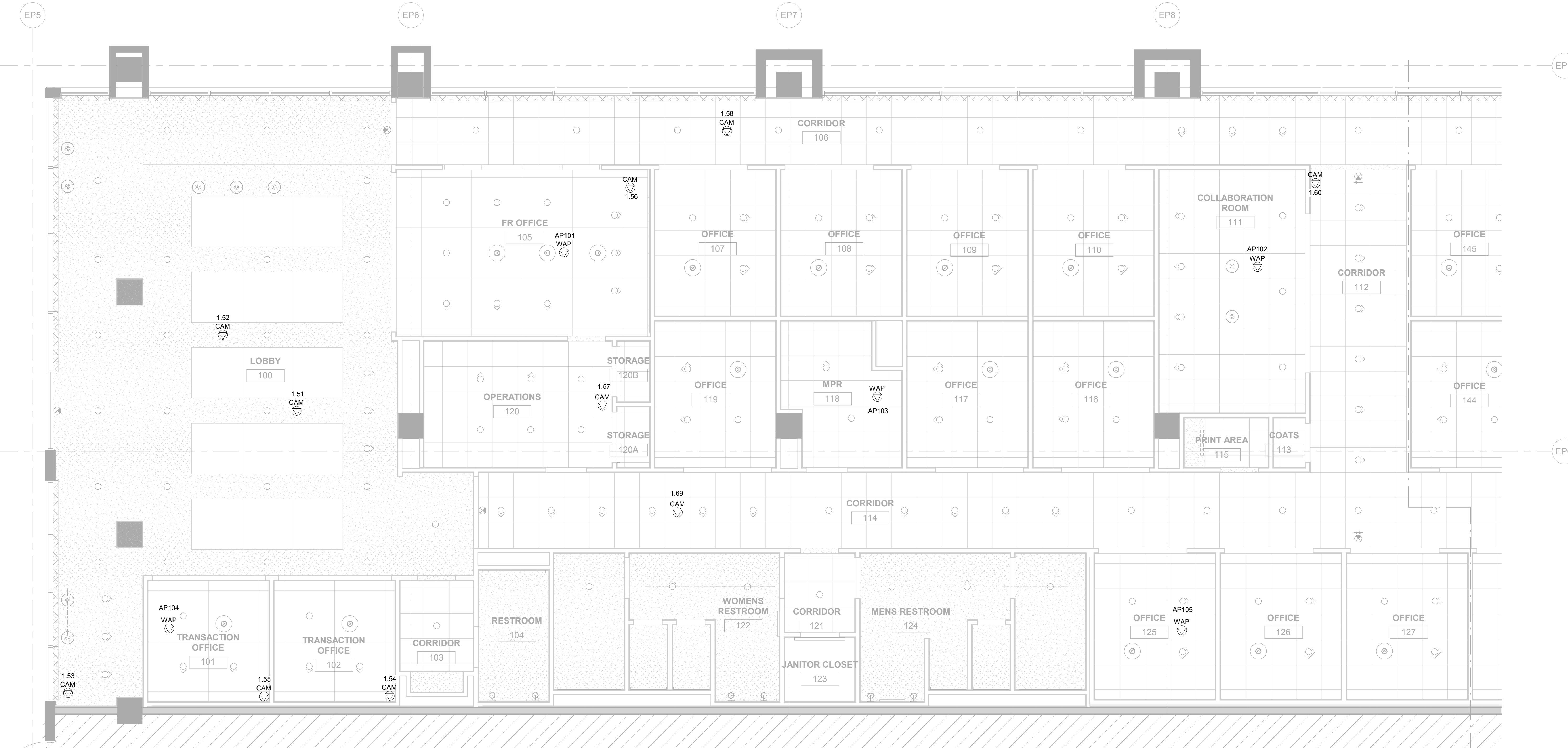
Drawing Sheet Title:
TELECOM - LEVEL 1

Drawing Sheet Number:
TC-201

Owner's Branch No.:
134

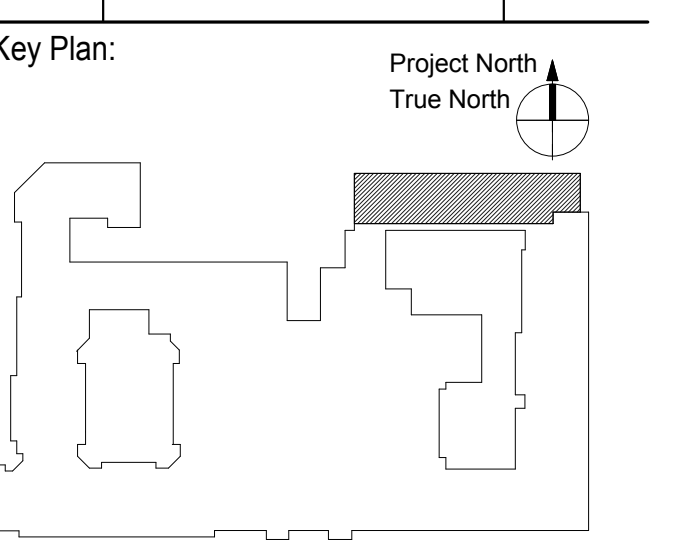


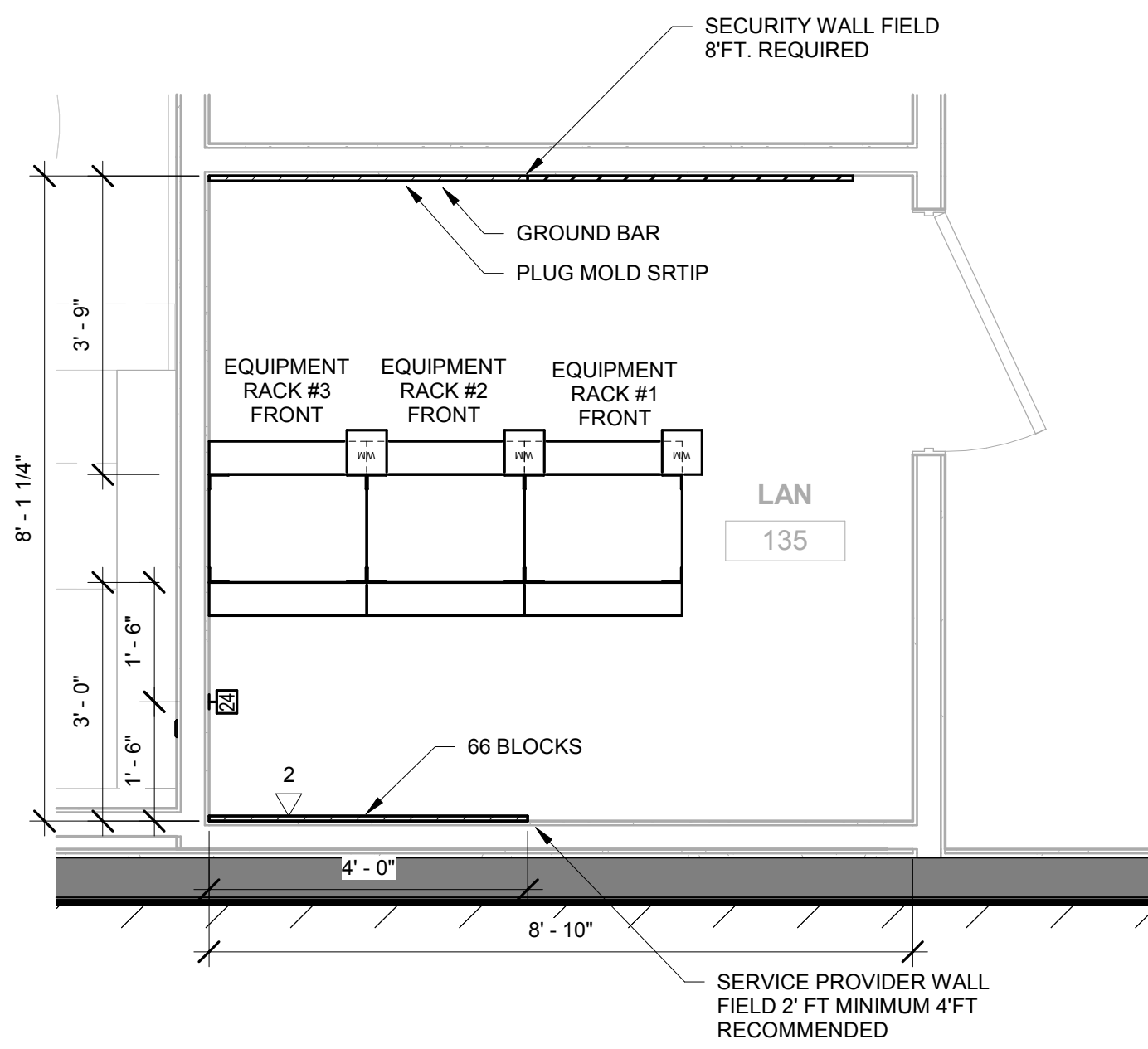
2 - LEVEL 1 EAST -
1/4" = 1'-0"



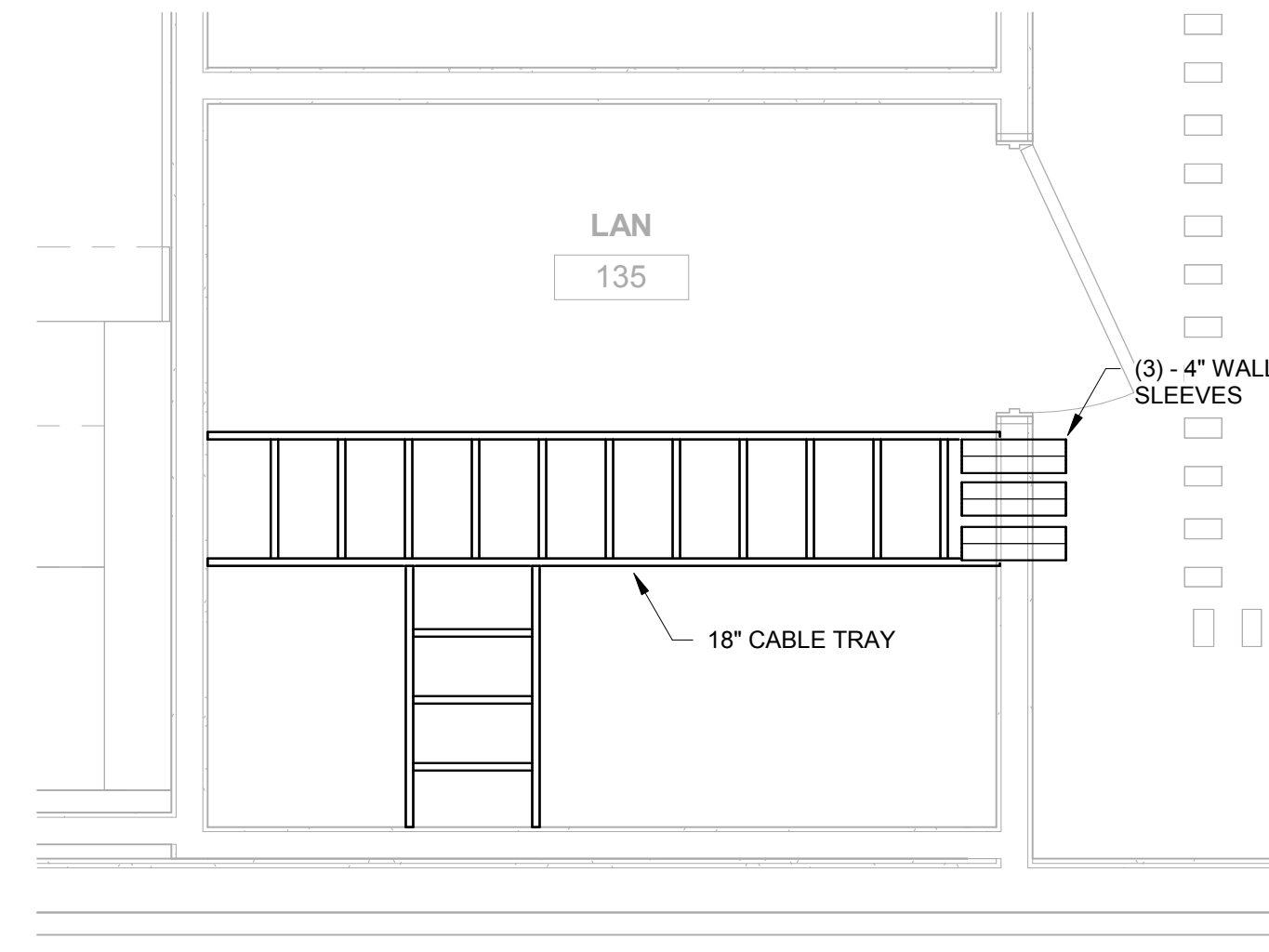
1 - LEVEL 1 WEST -
1/4" = 1'-0"

Number	Description	Date
1	Issued for Permit & Construction	23 DEC 24

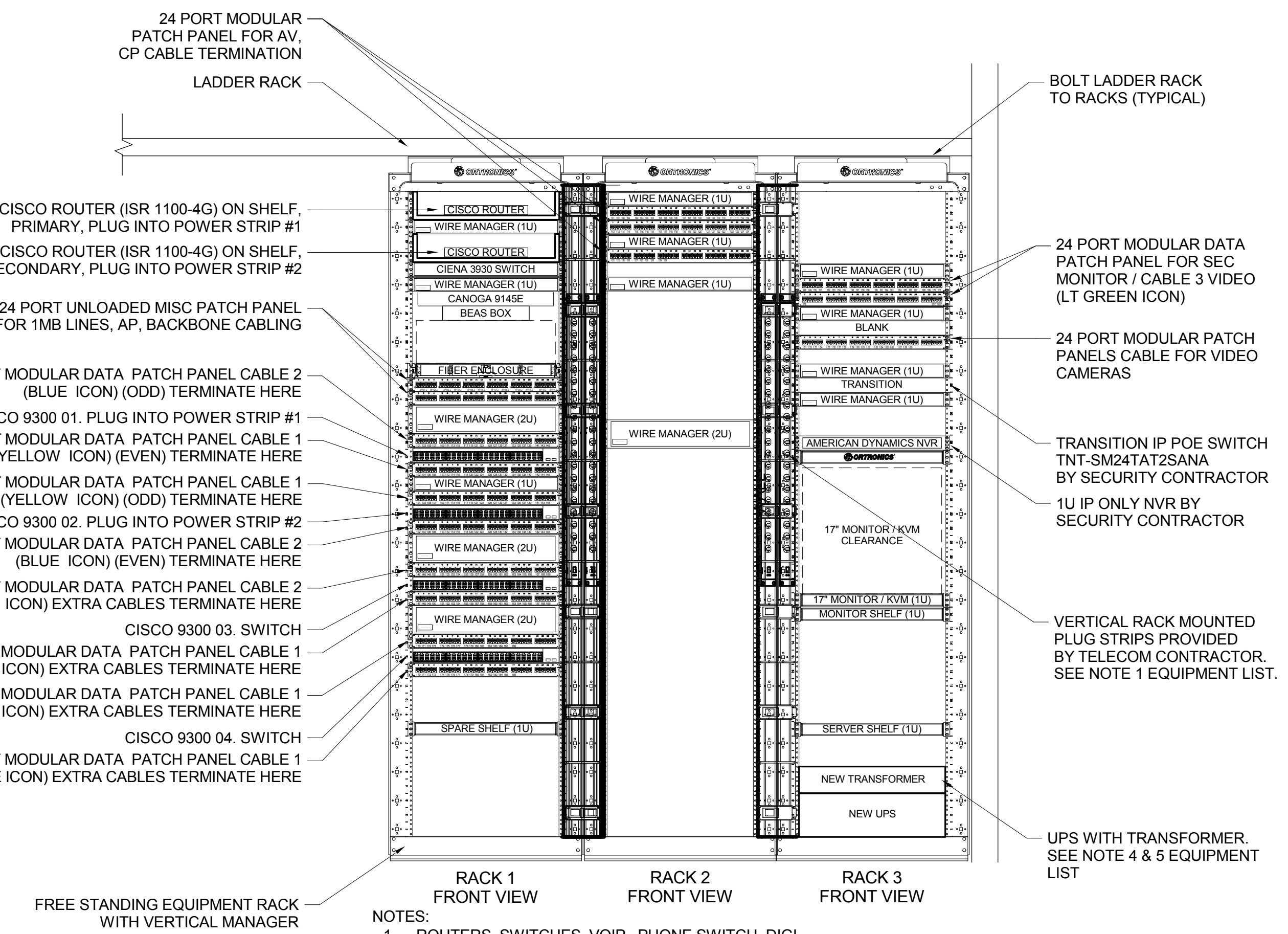




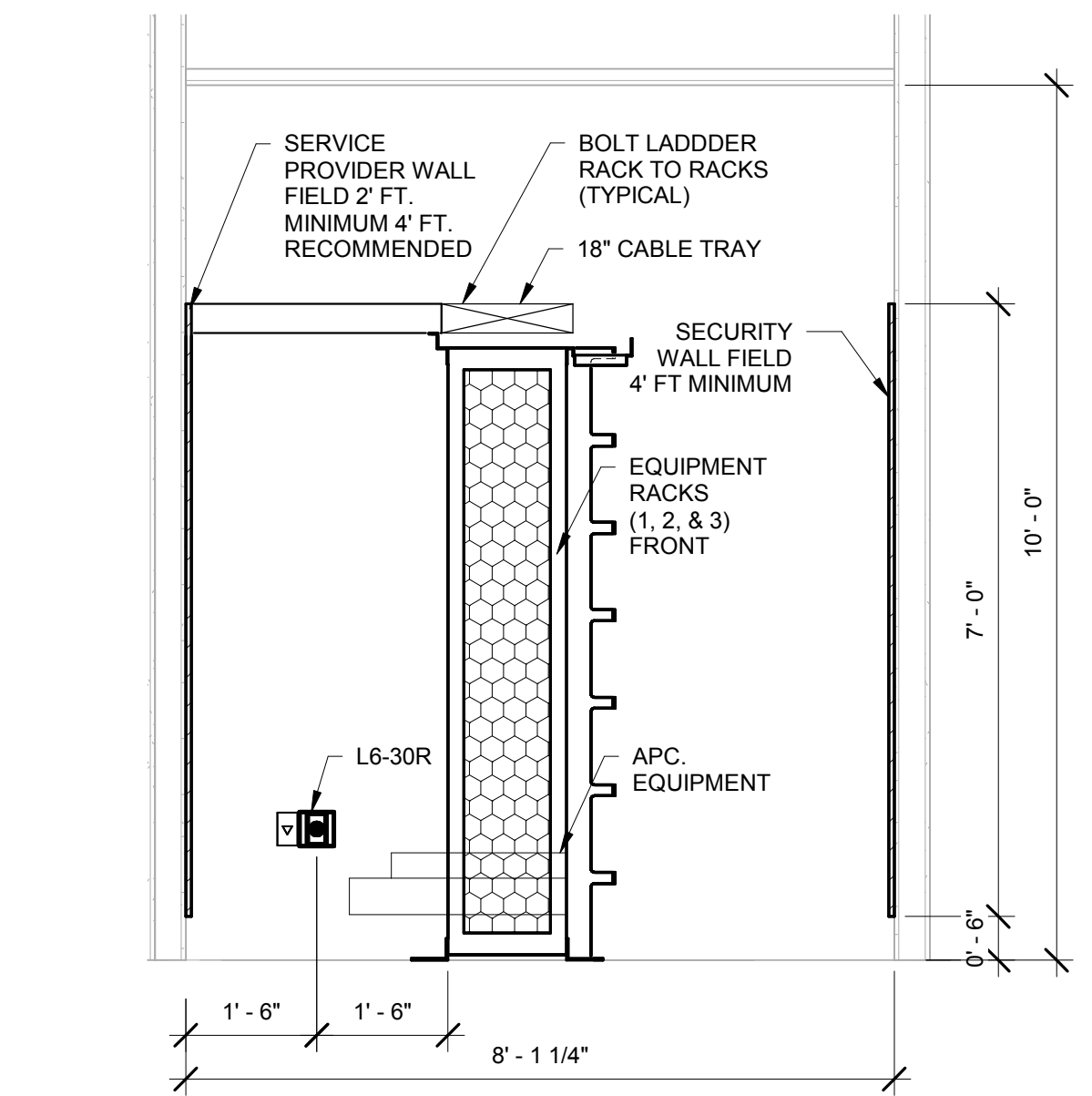
① TELECOM - LEVEL 1 EAST - LAN EQUIPMENT LAYOUT
1/2" = 1'-0"



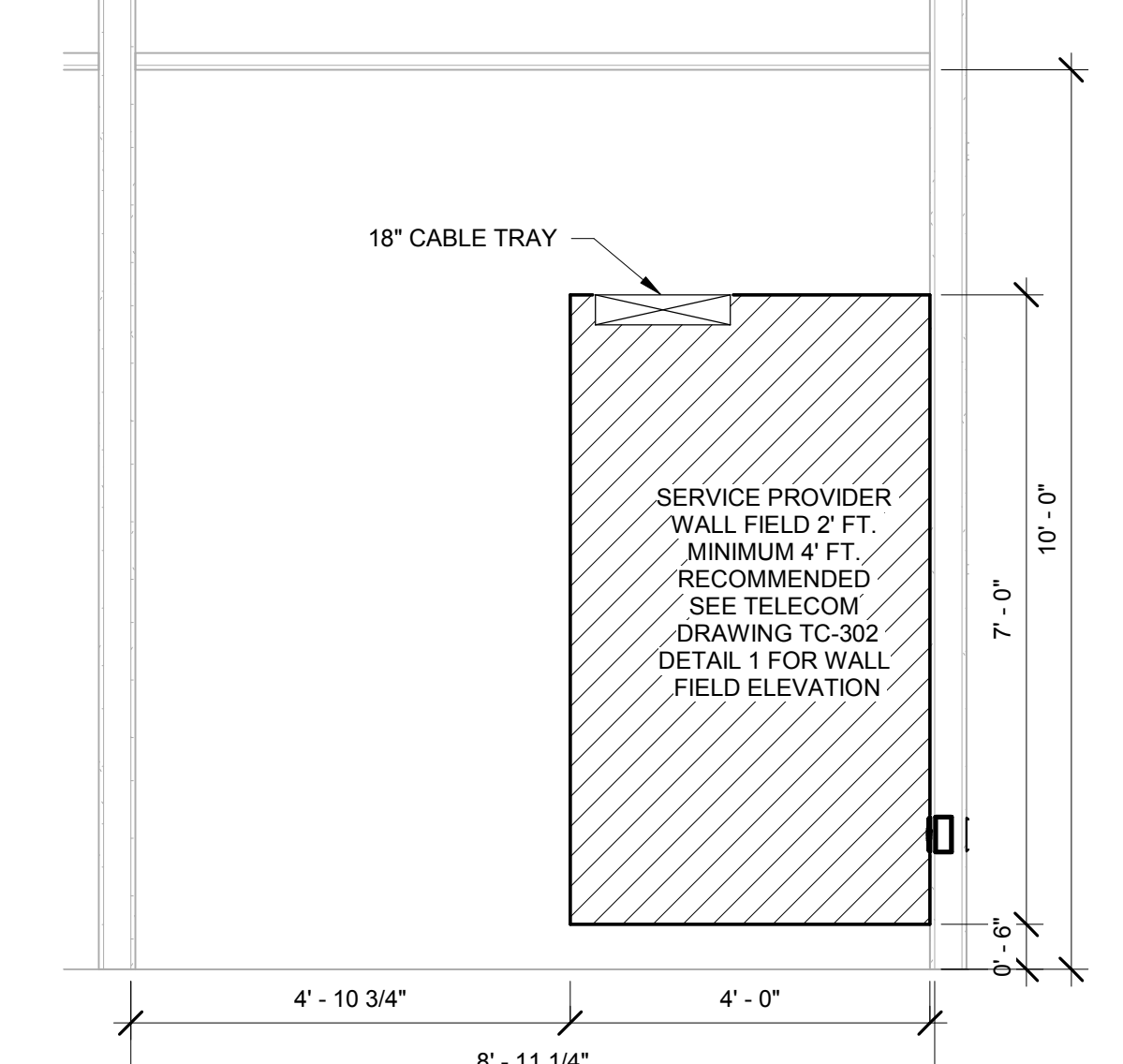
② TELECOM - LEVEL 1 EAST - LAN CABLETRAY LAYOUT
1/2" = 1'-0"



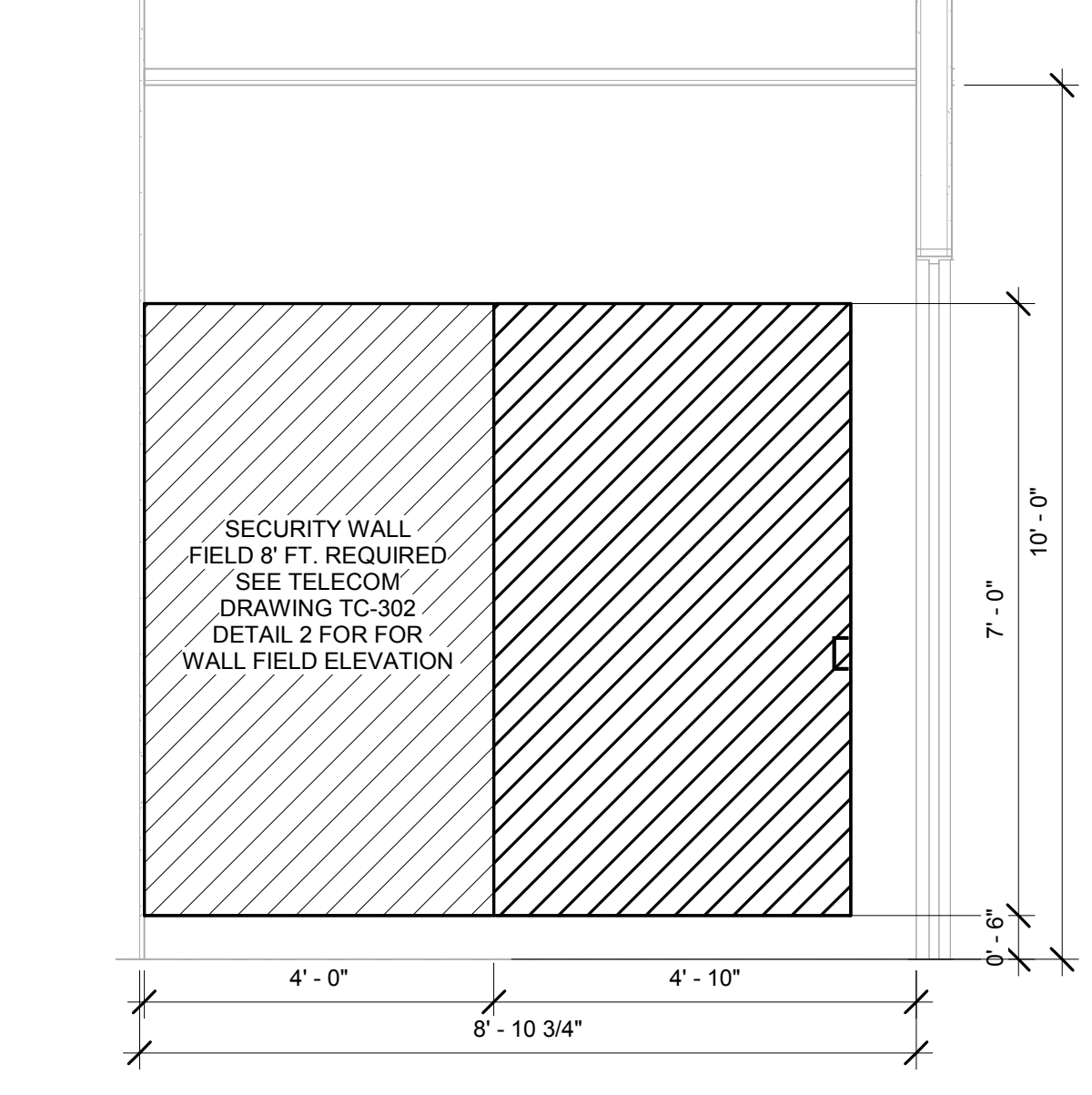
③ FIDELITY - RACK ELEVATION DETAIL LAN ROOM
1" = 1'-0"



⑥ TELECOM - LAN ROOM WEST
1/2" = 1'-0"

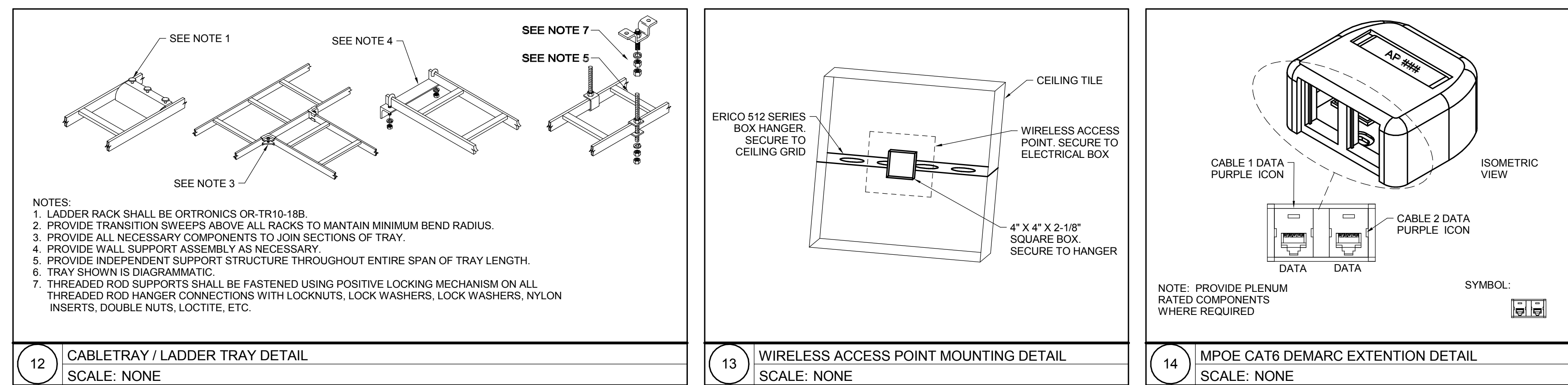
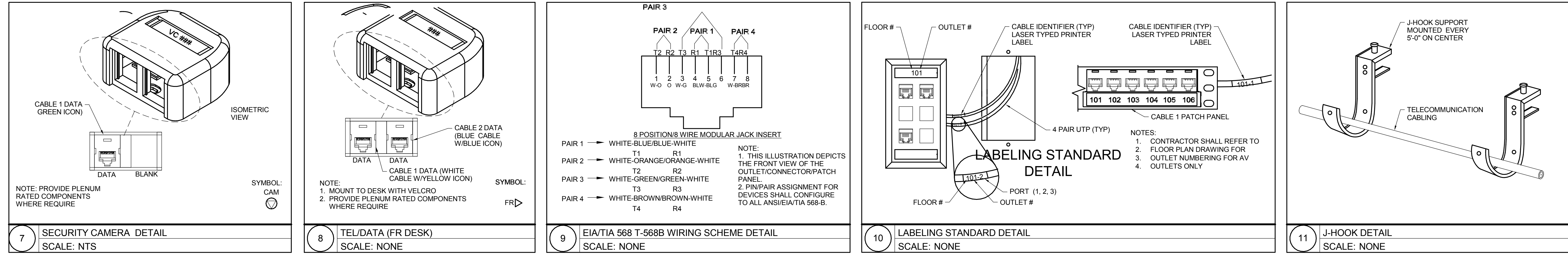
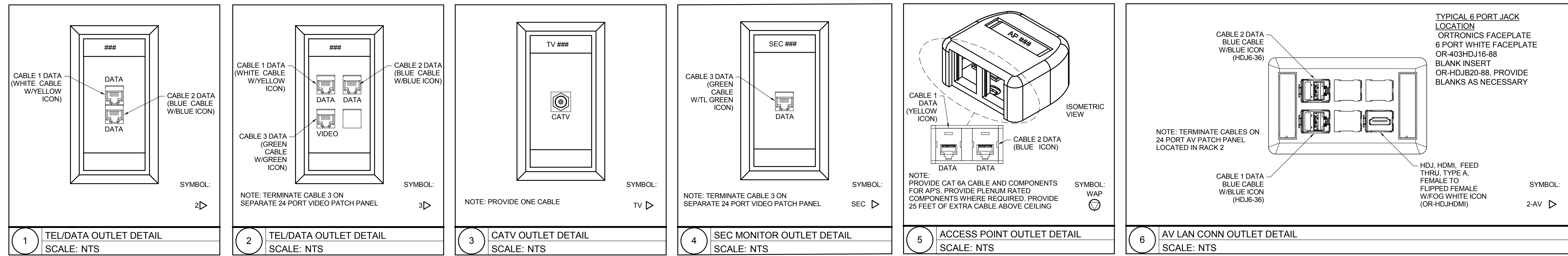


⑤ TELECOM - LAN ROOM SOUTH
1/2" = 1'-0"



④ TELECOM - LAN ROOM NORTH
1/2" = 1'-0"

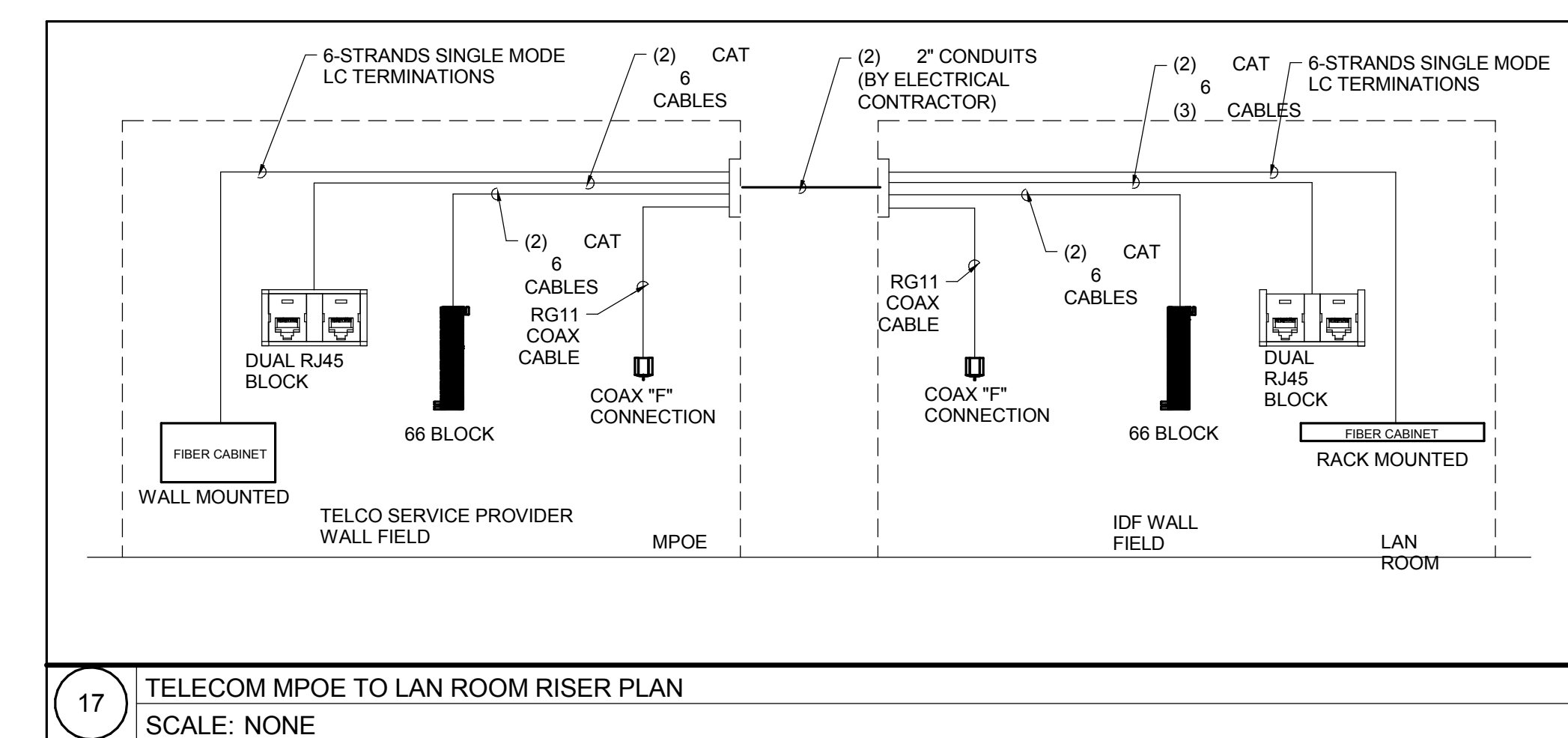
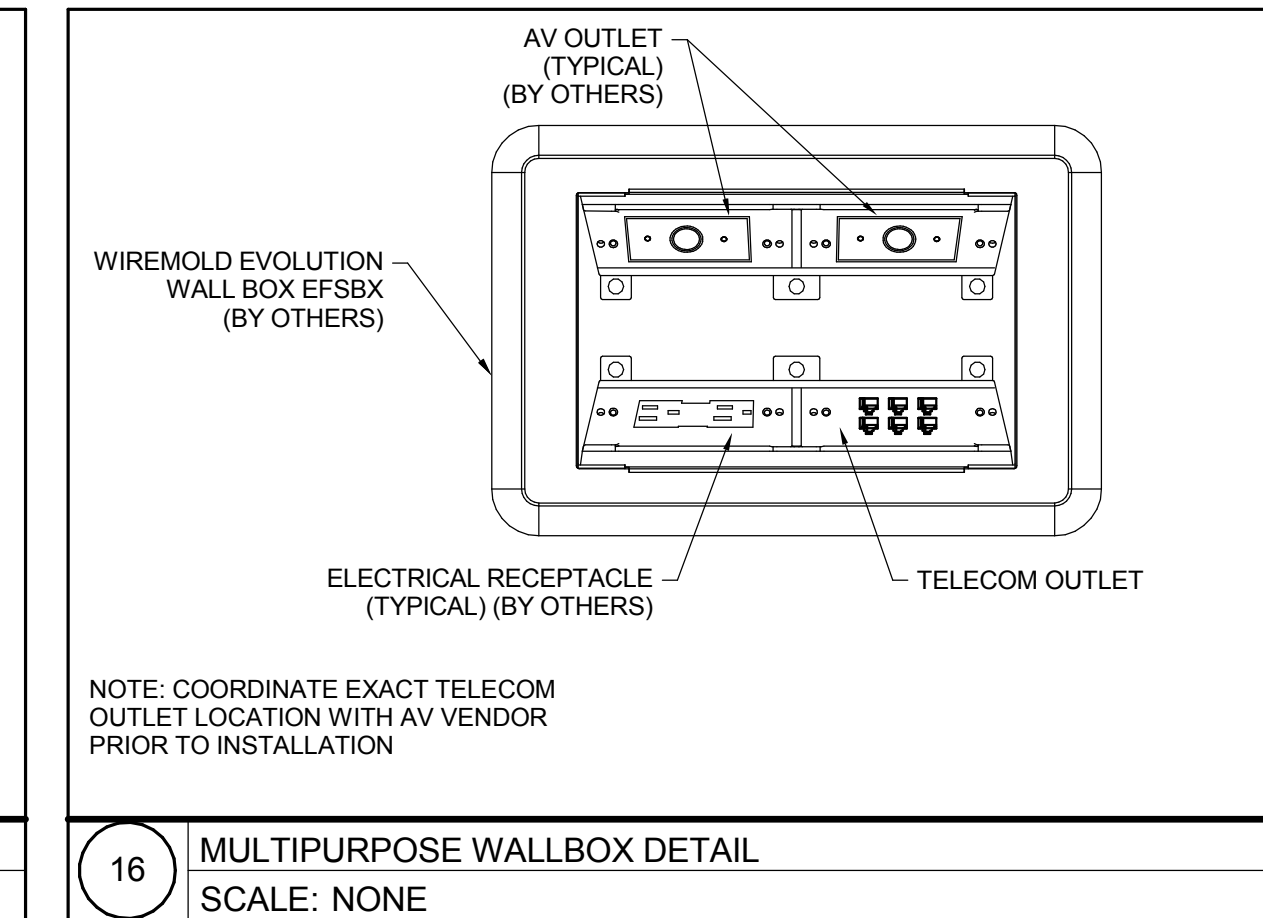
Number	Description	Date
1	Issued for Permit & Construction	23 DEC 24



15 SAMPLE LAN ROOM PATCH PANEL LAYOUT SCALE: NONE

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
X01	X03	X05	X07	X09	X11	X13	X15	X17	X19	X21	X23	X25	X27	X29	X31	X33	X35	X37	X39	X41	X43	X45	BLK/ODD
X01	X04	X06	X08	X10	X12	X14	X16	X18	X20	X22	X24	X26	X28	X30	X32	X34	X36	X38	X40	X42	X44	X46	X48
X01	X03	X05	X07	X09	X11	X13	X15	X17	X19	X21	X23	X25	X27	X29	X31	X33	X35	X37	X39	X41	X43	X45	X47
X02	X04	X06	X08	X10	X12	X14	X16	X18	X20	X22	X24	X26	X28	X30	X32	X34	X36	X38	X40	X42	X44	X46	X48
X49	X50	X51	X52	X53	X54	X55	X56	X57	X58	X59	X60	X61	X62	X63	X64	X65	X66	X67	X68	X69	X70	X71	X72
X49	X50	X51	X52	X53	X54	X55	X56	X57	X58	X59	X60	X61	X62	X63	X64	X65	X66	X67	X68	X69	X70	X71	XX72

X - INDICATES FLOOR NUMBER



General Notes:

Project Title:

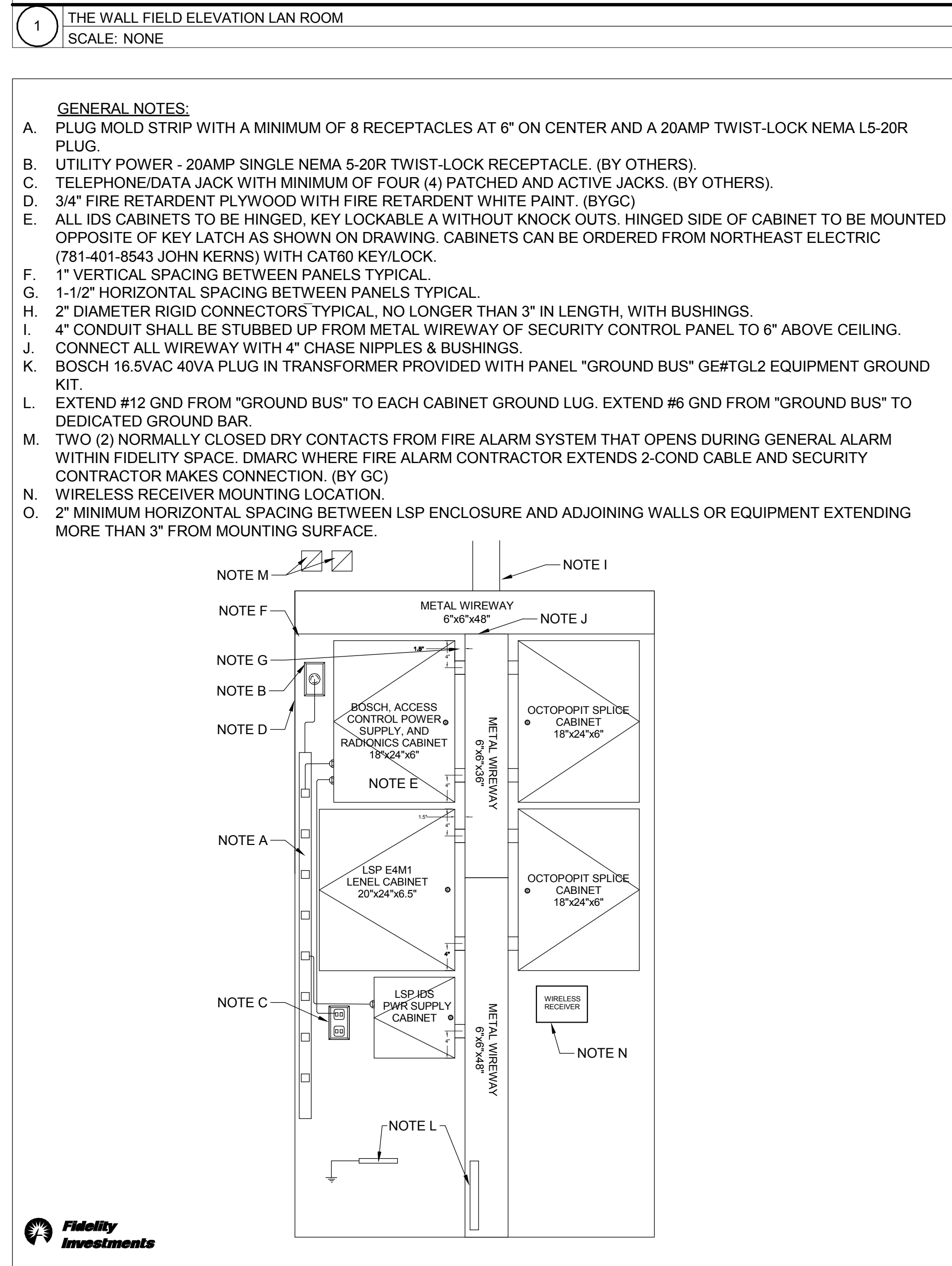
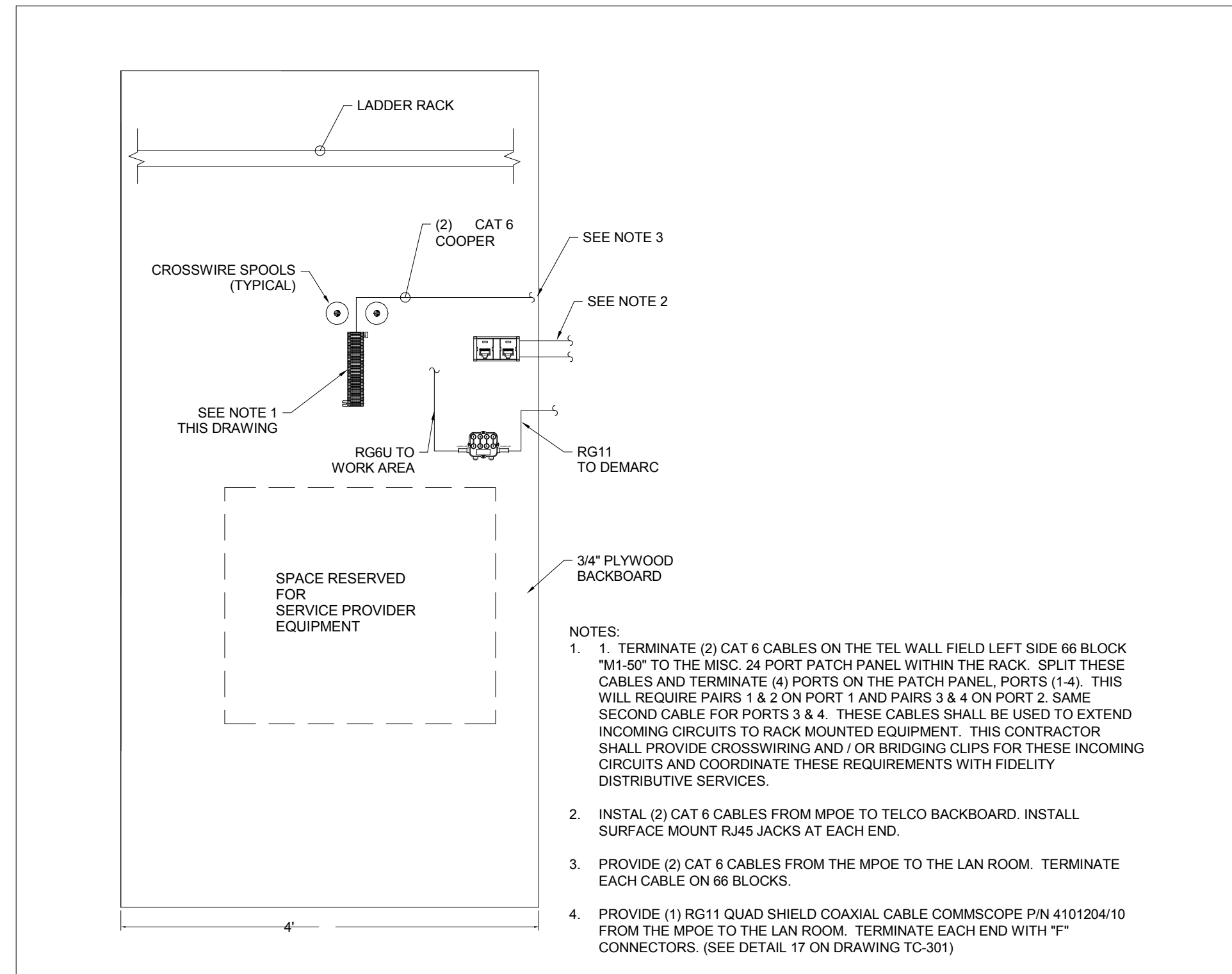


Fidelity Real Estate Company
245 Summer Street
Boston, MA 02110

7171 E. Paradise Lane
Suite R-120
Scottsdale, AZ 85254

Number	Description	Date
1	Issued for Permit & Construction	23 DEC 24

Key Plan:



RACKS & EQUIPMENT			
ITEM	DESCRIPTION	MANUFACTURER	PART NUMBER
	FREE STANDING RACK, BLACK (45RU)	LEGRAND / ORTRONICS	MM20710-B
	VERTICAL WIRE MANAGEMENT, BLACK	LEGRAND / ORTRONICS	MM20VWL-704-B
	HORIZONTAL WIRE MANAGER, W/ COVER	LEGRAND / ORTRONICS	80800010
	HORIZONTAL WIRE MANAGER, W/ COVER	LEGRAND / ORTRONICS	808044549
	24 PORT FLAT PATCH PANEL	PANDUIT	NKPP24FMY
	JACKS FOR UNLOADED PATCH PANELS	BLUE CAT 6 KEYSTONE	K56A-36
	JACKS FOR UNLOADED PATCH PANELS	YELLOW CAT 6 KEYSTONE	K56A-44
	JACKS FOR UNLOADED PATCH PANELS	GREEN CAT 6 KEYSTONE	K56A-45
	JACKS FOR UNLOADED PATCH PANELS	FOG WHITE CAT 6A KEYSTONE	KTZ6A
	ROUTER SHELF	LEGRAND / ORTRONICS	604046681
	ROUTER SHELF	(1RU) 19"W x 10"D x 3.44"H	CHATS WORTH 10758-701
	VERTICAL RACK POWER STRIPS	TRIPPLITE	PS4816
	(16 OUTLETS), 15 FT COND, 5-15P, 48 IN.		
	HORIZONTAL RACK POWER STRIPS	APC	AP7900B
	1.4 KW 120V 15A, (8) NEMA 5-15P OUTLETS		
	86 BLOCKS	WALL FIELD CIRCUITS	HUBBELL HPW66M125
	MONITOR - 8 PORT NET/DIRECTOR RACK MNT. CONSOLE KVM SWITCH W/ 17 IN LCD	(1RU) KVM CONSOLE	TRIPPLITE B020-008-17
	APC SMART-UPS, ON-LINE, 6.4KVA, 200V, 2x L5-20R+2x L6-30R NEMA OUTLETS	(3RU) APC SMART UPS, FOR LAN ROOM	APC SRT9KRMXL
	NETWORK CARD-SMARTSLOT, EXTENDED RUNTIME, WITH RAIL KIT		
	APC TRANSFORMER 200V IN - 120V OUT, WITH 5-20 RECEPTACLES	(2RU) 120V STEP DOWN	AP9626
	APC SMART UPS RAILS	UPS 2-POST RAIL KIT	AP9625
	APC SmartUPS On-Line, 2200VA, Rackmount 2U, 120V, (8x 5-20R)+1x L5-20R NEMA outlets, Network Card, Extended runtime, W/ rail kit	(2RU) APC SMART UPS, FOR BOOSTER ROOM DUAL RACK	APC (From Dan Hinton) SRT2200RMLA-NC

CABLING			
ITEM	DESCRIPTION	MANUFACTURER	PART NUMBER
	HORIZONTAL CABLING 1 WHITE	CATEGORY 6	SUPERIOR ESSEX 54-246-4B
	HORIZONTAL CABLING 2 BLUE	CATEGORY 6	SUPERIOR ESSEX 54-246-2B
	HORIZONTAL CABLING 3 GREEN	CATEGORY 6	SUPERIOR ESSEX 54-246-5B
	HORIZONTAL CABLING WIRELESS ACCESS POINTS WITH DISCONTINUOUS ISOLATION WRAP	CATEGORY 6A	SUPERIOR ESSEX 6H-246-2B

NOTES:
1. PROVIDE TWO (2) VERTICAL RACK MOUNTED POWER STRIPS IN THE LAN ROOM.
2. PROVIDE TWO (2) CATEGORY 6 CABLES FROM TEL WALL FIELD TO RACK. SEE NOTE 6 THIS DRAWING.
3. TERMINATE CABLE 3 GREEN (LT GREEN ICON) IN SECURITY RACK #2.
4. CONTRACTOR SHALL PLUG ONE VERTICAL RACK MOUNTED POWER STRIP INTO CIRCUIT 1 ON THE UPS TRANSFORMER AND ONE VERTICAL POWER STRIP INTO CIRCUIT 2 ON UPS TRANSFORMER.
5. CONTRACTOR SHALL PROVIDE AND INSTALL 2-POT TRAIL KIT FOR UPS AND STEP DOWN TRANSFORMER.
6. CONTRACTOR SHALL PLUG CABLE MODEM AND MX84 INTO HORIZONTAL MOUNTED CONTROLLED OUTLET POWER STRIP.

FACEPLATES / INSERTS			
ITEM	DESCRIPTION	MANUFACTURER	PART NUMBER
	DEMOUNTABLE SURF MNT OFFICE BOX, FOG WHITE	LEGRAND / ORTRONICS	40300185
	WALL MOUNTED BRACKET, STEEL	GADBY MPF-51	
	DEMOUNTABLE / WALL MTD / WHITE	2-PORT TRACJACK FACEPLACE	LEGRAND / ORTRONICS 40305648-88
	DEMOUNTABLE / WALL MTD / WHITE	4-PORT TRACJACK FACEPLACE	LEGRAND / ORTRONICS 40305468-88
	DEMOUNTABLE / WALL MTD / WHITE	6-PORT TRACJACK FACEPLACE	LEGRAND / ORTRONICS 40305458-88
	DEMOUNTABLE / WALL MTD / WHITE	CAT 6 LAN 5688 TRACJACK	LEGRAND / ORTRONICS T-J600-88
	DEMOUNTABLE / WALL MTD / GREEN	CAT 6A LAN 5688 TRACJACK	LEGRAND / ORTRONICS T-J6A-44
	DEMOUNTABLE / WALL MOUNTED	YELLOW LAN #1 ICON	LEGRAND / ORTRONICS 40324200
	DEMOUNTABLE / WALL MOUNTED	BLUE LAN #2 ICON	LEGRAND / ORTRONICS 40326200
	DEMOUNTABLE / WALL MOUNTED	LT GREEN VIDEO #1 ICON	LEGRAND / ORTRONICS 40325200
	DEMOUNTABLE / WALL MOUNTED	BLANK MODULE, WHITE	LEGRAND / ORTRONICS 42100002-88
	WALL MOUNTED	SS WALL PHONE FACEPLATE	HUBBELL P650SR1GJ8
	DEMOUNTABLE	SURF MNT COMF TABLE LEG	LEGRAND / ORTRONICS 4041-22
	WALL MOUNTED (LECTURN)	STYLISTICS (FP)- FOG WHITE	LEGRAND / ORTRONICS 40300271
	WALL MOUNTED (LECTURN)	STYLISTICS FRAME - FOG WHITE	LEGRAND / ORTRONICS 41900017-88
	WALL MOUNTED (LAPTOP)	STYLISTICS (FP)- FOG WHITE	LEGRAND / ORTRONICS 40300271
	WALL MOUNTED (LAPTOP)	3 GANG WALL PLATE, DECORATOR - WHITE	LEGRAND SP263W

FIBER			
ITEM	DESCRIPTION	MANUFACTURER	PART NUMBER
	FIBER OPTIC CABLE	SEE NOTE 1 BELOW	BERK-TEK P0P9006A80707
	FIBER OPTIC CABLE	SEE NOTE 1 BELOW	BERK-TEK P0P9012AB0707
	FIBER OPTIC CABLE	SEE NOTE 2 BELOW	P0P9012F83010FS
	ENCLOSURE	WALL MOUNTED	LEGRAND / ORTRONICS 615MFC-24PS
	ENCLOSURE	1RU	LEGRAND / ORTRONICS INF001U-M4-E
	ENCLOSURE	2RU	LEGRAND / ORTRONICS INF002U-M4-E
	ENCLOSURE	4RU	LEGRAND / ORTRONICS INF004U-M4-E
	ADAPTER PANELS	SINGLE MODE 24 LC	LEGRAND / ORTRONICS HDFF-LCQ24AC
	ADAPTER PANELS	MULTI MODE 24 LC	LEGRAND / ORTRONICS HDFF-LCQ24LC
	CONNECTORS	SINGLE MODE LC UPC POLISH	LEGRAND / ORTRONICS 209KNT9GA-09
	CONNECTORS	MULTI MODE LC OM4	LEGRAND / ORTRONICS 209KNT9GA-50T
	PIGTAILS	SINGLE MODE LC, 1 METER, OS2 UPC POLISH	LEGRAND / ORTRONICS P1PC9FRSZZ2001M
	PIGTAILS	SINGLE MODE LC, 1 METER, OM4 PC POLISH	LEGRAND / ORTRONICS P3P9FRGZZ2001M
	FIBER SPlice ON CONNECTORS	SEE NOTE 3 BELOW	LEGRAND / ORTRONICS 209KNT9GA-50E

- NOTES:**
1. SINGLE MODE OS2 PLENUM RATED ARMORED, TIGHT BUFFERED WITH KEVLAR TENSILE STRENGTH MEMBERS.
2. 12-STRAND MULTIMODE LASER OM4 50 MICRON, PLENUM RATED ARMORED, TIGHT BUFFERED WITH KEVLAR TENSILE STRENGTH MEMBERS.
3. SINGLE MODE / MULTIMODE - FACTORY CLEAVED 900 MICRON STUB, UV-HEAT SHRINK TUBES, STRAIN RELIEF BOOT.
4. ALL CONNECTORS MUST BE FACTORY TERMINATED OR FUSION SPLICED (PIGTAILS OR SPLICED ON CONNECTORS)

EQUIPMENT CONNECTIONS	
COMCAST MODEMS / MERAKI	
COMCAST HIGH SPEED CONNECTS TO ROUTER 2	
COMCAST LOW SPEED CONNECTS TO INTERNET PORT ON MERAKI	
MERAKI - MX84 PORT 1 CONNECTS TO SWITCH 1 PORT 45	
MERAKI - MX84 PORT 5 CONNECTS TO SWITCH 1 PORT 45	
PDU CONNECTIONS	
PORT 1 - MERAKI MX84	
PORT 2 - COMCAST HIGH SPEED MODEM	
PORT 3 - COMCAST LOW SPEED MODEM	
PORT 4 - COMCAST CABLE TV (IF IN LAN ROOM)	

PATCH CABLES			
COLOR	LENGTH	QUANTITY	CABLE TYPE / PART NUMBER
YELLOW	6 INCH	24 PER SWITCH	CATEGORY 6 / MC6-50-04
YELLOW	8 INCH	15	CATEGORY 6 / MC6-66-04
YELLOW	10 INCH	15	CATEGORY 6 / MC6-83-04
YELLOW	1 FOOT	10	CATEGORY 6 / OR-MC601-04
YELLOW	3 FOOT	20	CATEGORY 6 / OR-MC603-04
YELLOW	5 FOOT	15	CATEGORY 6 / OR-MC605-04
YELLOW	7 FOOT	15	CATEGORY 6 / OR-MC607-04
YELLOW	20 FOOT	2	CATEGORY 6 / OR-MC620-04
BLUE	6 INCH	10	CATEGORY 6 / MC6-50-06
BLUE	8 INCH	10	CATEGORY 6 / MC6-66-06
BLUE	10 INCH	15	CATEGORY 6 / MC6-83-06
BLUE	1 FOOT	10	CATEGORY 6 / OR-MC601-06
BLUE	3 FOOT	10	CATEGORY 6 / OR-MC603-06
BLUE	5 FOOT	10	CATEGORY 6 / OR-MC605-06
BLUE	7 FOOT	10	CATEGORY 6 / OR-MC607-06
BLACK (AUDIO VISUAL)	10 FOOT	GUIDANCE ROOM# + 10%	CATEGORY 6 / OR-MC610-00
GREEN (CCTV)	8 INCH	10	CATEGORY 6 / MC6-66-05
GREEN (CCTV)	7 FOOT	20	CATEGORY 6 / OR-MC607-05
GREEN (CCTV)	3 FOOT	10	CATEGORY 6 / OR-MC603-05
GREEN (CCTV)	1 FOOT	10	CATEGORY 6 / OR-MC601-05
YELLOW (WIRELESS)	1 FOOT	15	CATEGORY 6A / OR-MC6A01-04
YELLOW (WIRELESS)	3 FOOT	7	CATEGORY 6A / OR-MC6A03-04
YELLOW (WIRELESS)	5 FOOT	7	CATEGORY 6A / OR-MC6A05-04
YELLOW (WIRELESS)	10 FOOT	7	CATEGORY 6A / OR-MC6A10-04

Project Title:

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245 Summer Street
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Number	Description	Date
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Key Plan:

Project No.: C0115.00
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Drawing Sheet Title:
TELECOM - DETAILS SHEET

Drawing Sheet Number:
TC-302

Owner's Branch No.:
134

General Notes:

SECURITY CABLE LEGEND						
TYPE NO.	MANF.	CAT NO	O.D.	CABLE TYPE	RATING	DISCRPTION
1	Belden	658AFJ	0.463 in.	STANDARD JACKETED COMPOSITE	PLENUM	4C, 18 AWG, Shielded 6302FE Flamearrest Gray; 3TP 22 AWG, OAS 6542FE Flamearrest Orange; 2C 22 AWG, Shielded 6500FE Flamearrest White; 4C 22 AWG, Shielded 6502FE Flamearrest Blue, Overall Jacket Yellow.
2	Belden	6545FE	0.268 in.	6PR 22AWG	PLENUM	22 AWG bare copper conductors, twisted into pairs, multiple pairs cabled together, overall shield tape (foil side out) w/drain wire, jacket with ripcord. Sequential footage marking every two feet.
3	Belden	6504FE	0.175 in.	6COND 22AWG	PLENUM	22 AWG bare copper conductors,insulation, conductors cabled, overall tape shield (foil side out) and drain wire, jacket with ripcord. Sequential footage marking every two feet.
4	Belden	6300FE	0.162 in.	1PR 18AWG	PLENUM	18 AWG bare copper conductors, conductors cabled, Overall tape shield (foil side out) and drain wire, jacket with ripcord, sequential footage marking every two feet.
5	Belden	6500FE	0.128 in.	1PR 22AWG	PLENUM	22 AWG bare copper conductors, insulation, conductors cabled, Overall tape shield (foil side out) and drainwire, jacket with ripcord, sequential footage marking every two feet.
6	Belden	643948	0.193 in.	RG59U COAX	PLENUM	20 AWG bare copper conductor, foam FEP insulation, bare copper braid shield, jacket, sequential footage marking every two feet.
7	Belden	9873	0.341 in.	3PR 20AWG	NON PLENUM	20 AWG stranded (7x28) TC conductors, polypropylene insulation, twisted pairs, individually shielded (100%coverage), 22 AWG stranded TC drain wire, overall PVC jacket.
8	Belden	9774	0.56 in.	6PR 18AWG	NON PLENUM	18 AWG stranded (19x30) TC conductors, polypropylene insulation, twisted pairs, individually shielded(100%coverage), 20 AWG stranded TC drain wire, PVC jacket.
9	Belden	5439X5	.244 in.	RG59U COAX	DRCT. BUR.	20 AWG solid bare copper conductor, gas-injected foam polyethylene insulation, bare copper braid shield (95% coverage), waterresistant tape, PVC jacket.
10	Belden	5339X5	0.279 in.	RG6 COAX	DRCT. BUR.	18 AWG solid bare copper conductor, gas-injected foam polyethylene insulation, bare copper braid shield (95% coverage), waterresistant tape, PVC jacket.
11	Belden	6200FE	0.184 in.	1PR 16AWG	PLENUM	16 AWG bare copper conductors, conductors cabled, Overall tape shield (foil side out) and drain wire, jacket with ripcord, sequential footage marking every two feet.
12	Belden	5300F1	.222 in.	1PR 18AWG	WTR. BLOK.	18 AWG tinned copper conductors, PVC insulation, cabled with overall water-blocking tape, PVC jacket with ripcord. Sequential footage marking every two feet.
13	Belden	5439W5	.236 in.	RG59U COAX	WTR. BLOK.	20 AWG bare copper conductor, foam polyethylene insulation, (100% coverage) plus a tinned copper braid shield (95% coverage),flooding grease, PVC jacket. Sequential footage marking every two feet.
14	Belden	5339W5	.270 in.	RG6 COAX	WTR. BLOK.	18 AWG bare copper conductor, foam polyethylene insulation, bare copper braid shield, sequential footage marking every two feet.
15	Belden	633948	.228 in.	RG6 COAX	PLENUM	18 AWG bare copper conductor, foam FEP insulation, bare copper braid shield, jacket, sequential footage marking every two feet.
16	Belden	OSP6AF	.260 in.	CAT6A	DRCT. BUR.	4 Pair, F/UTP-Foil Shielded, Outdoor OSP, Premise Horizontal Cable, 23 AWG Solid Bare Copper Conductors, Polyolefin Insulation, Patented X-Spline, Gel-Filled, UV resistant LLDPE Inner Jacket, Overall Beldfoil® Shield with Drain Wire, Ripcord, UV Resistance
17	Belden	5140F1	0.326 in.	1PR 14AWG	DRCT. BUR.	14 AWG stranded (19x27) tinned copper conductors, PVC insulation,shield (100% coverage), drain wire, water-blocking tape, PVC jacket.
18	Belden	649948	0.199 in.	RG59U+2C 18AWG (SIAMESE)	PLENUM	RG59U-20 AWG bare copper conductor, foam polyolefin insulation, bare copper braid shield, PVC jacket. 18 AWG bare copper conductors, unshielded (7x26)
19	Belden	639948	0.232 in.	RG6+2C 18AWG (SIAMESE)	PLENUM	RG6-18 AWG bare copper conductor, foam polyolefin insulation, bare copper braid shield, PVC jacket. 18 AWG bare copper conductors, unshielded (7x26)
20	Belden	9746	0.281 in.	4PR 22AWG	NON PLENUM	22 AWG stranded (7x30) tinned copper conductors, PVC insulation, twisted pairs, unshielded, PVC jacket.
21	Belden	8748	0.389 in.	9PR 22AWG	NON PLENUM	22 AWG stranded (7x30) tinned copper conductors, PVC insulation, twisted pairs, unshielded, PVC jacket.
22	Belden	9157	0.381 in.	4PR 18AWG	NON PLENUM	18 AWG stranded (16x30) tinned copper conductors, PVC insulation, twisted pairs, unshielded, PVC jacket.
23	Belden	5302U1	0.254 in.	4COND 18AWG	WTR. BLOK.	Multi-Conductor - Water-Blocked 18 AWG stranded (7x27) tinned copper conductors, PVC insulation, water-blocking tape, PVC jacket.
24	Belden	4813	0.255 in.	CAT 6+ - GREEN	PLENUM	23 AWG Solid Bare Copper Conductors, Dual FRPO/FEP insulation, Patented X-Spline, Ripcord, Flamearrest® Jacket
25	Belden	6342FE	0.282 in.	6COND 18AWG	PLENUM	18 AWG bare copper conductors,insulation, conductors cabled, overall tape shield (foil side out) and drain wire, jacket with ripcord. Sequential footage marking every two feet.
26	Belden	6502UE	0.139 in.	4COND 22AWG	PLENUM	22 AWG bare copper conductors,insulation, conductors cabled, jacket with ripcord. Sequential footage marking every two feet.
27	Belden	6504UE	0.168 in.	6COND 22AWG	PLENUM	22 AWG bare copper conductors,insulation, conductors cabled, jacket with ripcord. Sequential footage marking every two feet.

SECURITY SYMBOLS LEGEND	
	CONTROL PANEL
	FIRE ALARM
	GLASS BREAK DETECTOR
	KEY PAD
	MOTION DETECTOR
	MAGNETIC CONTACT WITH TRANSMITTER
	MONITOR POINT WITH TRANSMITTER
	DURESS BUTTON WITH TRANSMITTER
	WIRELESS RECEIVER
	WIRELESS TRANSMITTER
	TEMPERATURE SENSOR
	VIDEO MONITOR
	CARD READER
	INTERCOM ANSWER STATION
	VIDEO INTERCOM DOOR STATION
	VIDEO CAMERA
	VIDEO CAMERA (180 DEGREE)

SECURITY NOTES	
1.	REFER TO ELECTRICAL DRAWINGS FOR PROPOSED PATHWAYS.
2.	COORDINATE WITH CONTRACTOR, UTILITIES, TRADES AND ARCHITECT AS REQUIRED.
3.	REFER TO ELECTRONIC SECURITY DRAWINGS AND SPECIFICATIONS FOR DETAILS. SPECIFICATIONS SHALL BE PROVIDED UPON REQUEST.
4.	FIELD VERIFY EXACT LOCATIONS FOR ALL ELECTRONIC SECURITY DEVICES.
5.	PROVIDE SUPERVISED INPUTS AND END OF LINE SUPERVISION COMPONENTS CONNECTED TO EACH DEVICE TO MONITOR DEVICE. CONNECT MONITOR DEVICE AT FAR END AND PROVIDE 4-STATE SUPERVISION.
6.	ALL ELECTRONIC SECURITY CABLES TO BE PLENUM RATED.
7.	VERIFY LABELING STANDARD WITH OWNER, SUBMIT LABELING SCHEME FOR APPROVAL. LABELING SHALL BE IN ACCORDANCE WITH ANSIE/IA-606A STANDARDS. SECURITY CONTRACTOR SHALL PROVIDE ALL NECESSARY FITTINGS, PLATES
8.	AND INSERTS TO ACCEPT THE CONNECTIVITY PRODUCTS WITHIN THE ELECTRICAL CONTRACTOR PROVIDED BOXES, CONDUIT AND SURFACE RACEWAY.
9.	REFER TO DETAIL DRAWINGS FOR EXACT QUANTITY OF CABLES AND DEVICES REQUIRED AT EACH TYPICAL DOOR.

VANDERWEIL PROJECT INFO	
PROJECT NUMBER	C0115.00
PROJECT NAME	FIDELITY - SCOTTSDALE, AZ

SECURITY - SHEET LIST	
Sheet Number	Sheet Name
SE-000	SECURITY - LEGEND SHEET
SE-001	SECURITY - DEVICE SPECIFICATION
SE-100	SECURITY - DEVICE SCHEDULE
SE-101	SECURITY - LEVEL PROGRAMMING
SE-201	SECURITY - LEVEL 1
SE-202	SECURITY - REFLECTED CEILING PLAN LEVEL 1
SE-300	SECURITY - DEVICE CONTROL EQUIPMENT
SE-301	SECURITY - DEVICE DETAILS
SE-302	SECURITY - DEVICE DETAILS
SE-303	SECURITY - DEVICE DETAILS

KEY LEGEND	
	DETAIL CALL-OUT - PLAN VIEW. DENOTES DETAIL "X" ON DRAWING "TC-XX".
	DETAIL CALL-OUT - ELEVATION VIEW. DENOTES DETAIL "X" ON DRAWING "TC-XX".
	SEE KEY NOTES # ON SHEET FOR DESCRIPTION

LEGEND NOTES	
1.	THIS SHEET IS A GENERAL LIST OF SYMBOLS AND SHALL BE USED AS A REFERENCE TO DEFINE ITEMS INDICATED ON THE DRAWINGS. NOT ALL SYMBOLS ARE NECESSARILY USED ON THIS PROJECT.



7171 E. Paradise Lane
Suite R-120
Scottsdale, AZ 85254

Number	Description	Date
1	Issued for Permit & Construction	23 DEC 24

Key Plan:

28 00 00 - ELECTRONIC SAFETY AND SECURITY

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. The General Conditions for contracts of construction, referred to in the contract documents as the General Conditions, together with the following articles of the specifications, which amend, modify and supplement various articles and provisions of the General Conditions, are made part of the Contract and shall apply to all work under the Contract.
B. All articles or parts of articles of the General Conditions not so amended, modified or supplemented by these specifications shall remain in full force and effect.
C. Comply with all applicable governmental regulations and with all Federal, State, County, City, and other applicable codes and ordinances.
D. These specifications are not intended as a material list of items required by the Contract.
E. Coordinate with others who will be working in the space at the same time as this work.
F. It is the intent of these specifications to provide a complete and workable security system ready for the Owner's use.
G. Any given item of equipment or material shall be the product of one manufacturer throughout the facility.
H. These specifications are equipment and performance specifications. Actual installation shall be as indicated on the Drawings.

1.2 SUMMARY

- A. Work under this specification shall include devices as reflected on drawings.
B. All information in this specification shall be used in conjunction with Manufacturers' Specifications for a complete security system.
C. The Security Subcontractor shall provide all security equipment reflected on drawings and listed in this specification.
E. Provide all other devices and appurtenance as required for complete installation of those devices supplied by Fidelity to include, but not limited to all screws, fasteners, cover plates, connectors and hangers as required
F. Coordinate with General Contractor and FREC- Security Infrastructure Group for the execution of all work to ensure its proper and timely completion.

- 1. Furnish one (1) electronic set of "as-built" drawings to the Security Project Manager within 30 days of project commissioning.
2. Provide labeling and complete documentation of all cables, wiring boxes, equipment cabinets, pull boxes and termination strips installed under this contract.
3. Adhere Asset Tags to all components that have circuit boards per the Device Schedule utilizing the Asset Tags provided for the project and document required asset information on the Fidelity Asset Form.
4. Submit the completed Asset Form to the Security Project Manager within 30 days of project commissioning.
5. Remove and dispose of all refuse related to the security system installation from site on a daily basis and perform a final, thorough cleaning of the LAN room at the end of the project.
6. Provide warranty services for the specified period from the date of acceptance.

1.3 QUALITY ASSURANCE

- A. Materials shall conform to NEMA and NEC Standards.
B. Materials shall bear UL labels and be UL approved for the application for which they are used.
C. All workmanship shall conform to the standards set forth by FREC and the Security Infrastructure Group.

1.4 DELIVERY, STORAGE AND HANDLING

- A. Security Subcontractor shall be responsible for equipment from time of receiving
B. Coordinate storage space requirements prior to delivery with General Contractor, Area Manager or Branch Manager (depending on type/location of project) to ensure components are undamaged, stored in a clean, dry location and are not impeding other work.
C. Handle devices carefully to avoid damage to material components, enclosures, and finish.
D. Protect devices from dirt, fumes, water and physical damage.

1.5 CONTRACTOR QUALIFICATIONS

- A. Security Subcontractor shall have a minimum of 10 years experience in the installation of security systems of the type and size to be provided on this project.
B. The Security Subcontractor's project manager shall have a minimum of 7 years project management experience on like size project.
C. All technicians shall be licensed within the state they are working. Apprentices (unlicensed technicians) shall be supervised at all times by a licensed technician.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Wire specified is that as shown on drawings.
B. Only devices specified on drawings shall be used.
2.2 MATERIALS
A. Wiring General
1. Type as indicated on the Security Cable Legend.
2. Only those cables and wires or their equivalent types required for the devices tested for this particular installation shall be used.
3. All cables in wet or damp locations including underground raceways shall be listed for use in these locations.
4. Joints, splices, and terminations shall be made inside a box or enclosure and shall be made with Plain B wire connectors, or rosin-core soldered, where applicable.
5. Wires and cables shall be clearly, logically and permanently marked.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Security Subcontractor shall examine areas and conditions under which security equipment is to be installed.
B. Notify Architect and Construction Manager in writing of conditions detrimental to proper and timely completion of work.
C. Do not proceed with work until satisfactory conditions are present.
D. Inform Architect in writing of any application requirements that are not specified or that are detrimental to proper installation of equipment for clarification and specifications.
E. Existing Contract Documents for all other trades shall be made available for review through the General Contractor.
F. Verify all dimensions and distances in the field and document all cable lengths and materials provided.

3.2 INSTALLATION

- A. Location of Equipment
1. The specifications describe only approximate locations of the work.
2. Locate equipment and accessories to provide easy access for proper service and maintenance.
3. Coordinate device rough in with hard ceilings and architectural walls with architect.
4. Any conflict with other trades shall be submitted for approval to architect.
B. Wiring
1. Refer to typical security details on drawings for location of devices and wiring information.
2. All cable shall enter the Security Control Panel location, through the 3" nipples on top of the horizontal trough.
3. For ceiling distribution environments, "J-hook" hangers must be used to support the cable runs.

C. Devices

- 1. Provide resistor matrices across the monitoring loop at each intrusion, or alarm device.
2. Provide any combination video gear/equipment needed and as shown on drawings for each video camera location and head end.
3. Terminate cabinet tamper in all cabinets shown on Security Control Panel drawings.
4. Adjust any closed circuit video camera as needed, (focus, iris, etc.)
5. Provide labels on all security devices as per "Identification" section of this specification.
6. Ensure Asset Tags are properly adhered to each device with a circuit board and asset data has been noted on the Asset Form.
7. Conduct a thorough pre-test and final acceptance test using provided test report/documentation forms.

D. Conduit and Raceway System

- 1. Provide Shop drawings for conduit design, routing, sizing and junction boxes for Electrical Trade Contractor.
2. Review and coordinate conduit and wire way (conduit) installation with the Electrical Trade Contractor to ensure proper function and operation of the security systems.
3. All security wiring installed in an inaccessible area shall be installed in conduit.
4. All security wiring installed in exposed areas shall be installed in conduit or cable tray.
5. All security wiring installed beyond the Owner's secure space shall be in conduit.
6. All conduit shall be parallel with, or at right angles to, walls and ceilings.
7. Conduit fill shall not exceed 40% of conduit cross-sectional area.
9. All junction boxes and pull boxes utilized in the raceway system shall be installed as per NEC.

E. Grounding

- 1. The vertical raceway located at control panels (CP) shall have a "ground bus" capable of receiving all grounding drains for the cables that terminate from that vertical raceway.
2. Each control panel shall have a bonding jumper from the "ground bus" located in the vertical raceway and a ground lug inside each panel location.
3. Grounding and shielding shall conform to the following procedures.
4. It is the primary intent if the following procedures to provide a safe system for personnel to operate.
5. The power cord from active equipment shall not have its third prong-grounding conductor (if present) defeated.
6. To reduce noise voltages in the system it is intended that only one ground connection path exist between two pieces of equipment.
7. Where mounting hardware is indicated as a means of grounding, ensure both a solid electrical and mechanical connection is made.
8. Permanently and effectively, bond to building earth ground per applicable codes.
9. Passive Equipment Chassis: Connect an appropriately sized (green) insulated ground cable to the copper ground terminal block.

F. Mounting Boxes/Enclosures

- 1. Mounting boxes and enclosures shall be rigidly and securely mounted to the building structure.
2. Clean all interiors thoroughly before installing plates, panels or covers.
3. Back Box Requirements.
a. PB Duress Button (under cntr)
1) NA
2) Under cabinet (verify with architect)
b. M Motion detector
1) Single gang
2) Ceiling Mount or 9"6" Wall Mount
c. GB Glass Break
1) Single gang
2) Ceiling Mount or 9"6" Wall Mount
d. TS Temp sensor
1) Horiz. single gang with single gang stainless steel wall plate.
2) 5' to center (verify with architect)
e. Fire alarm point
1) 4-11/16" J-box
2) Mount demarcation as per Control panel elevation detail.

G. Electrical Power 120V AC

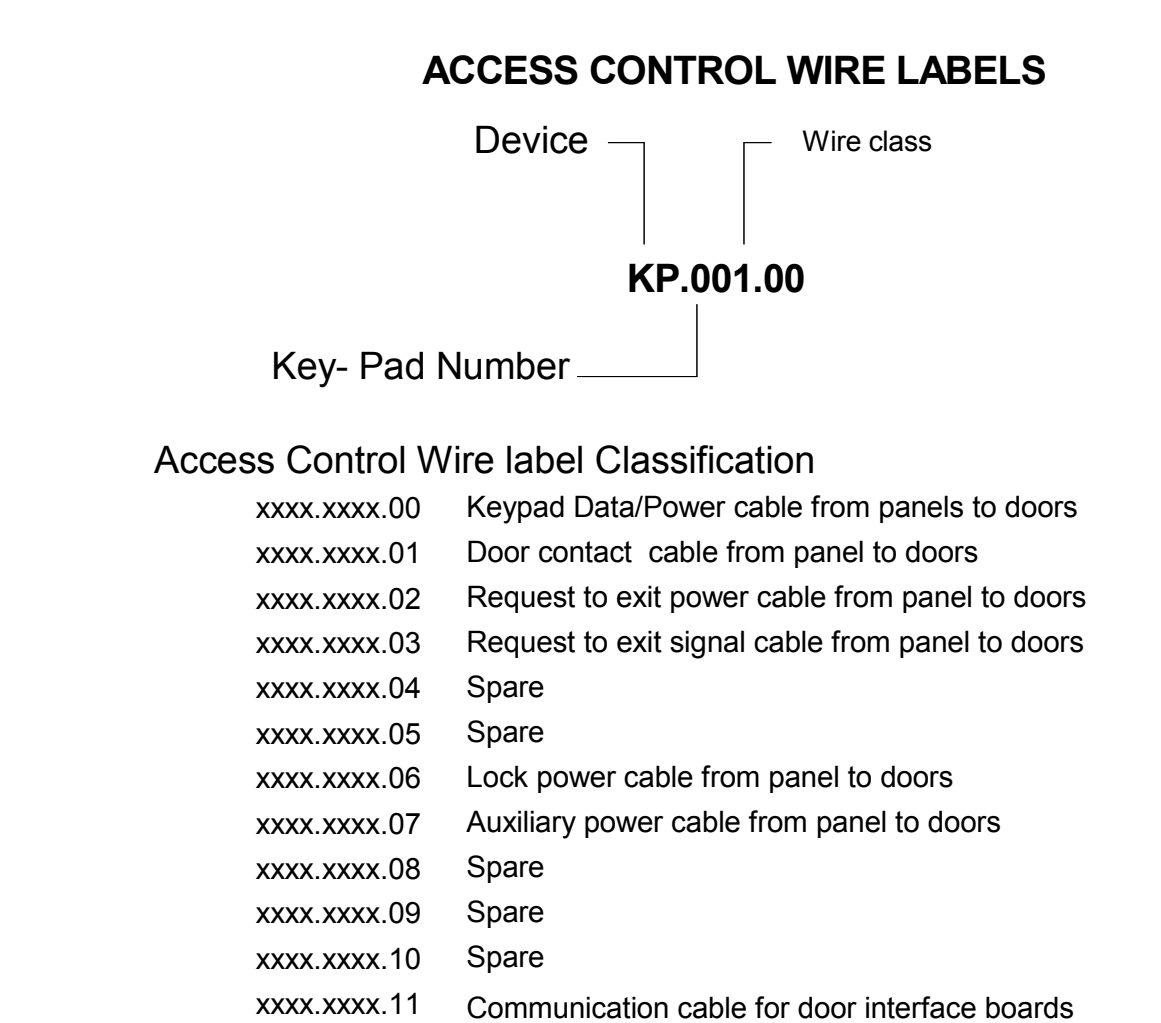
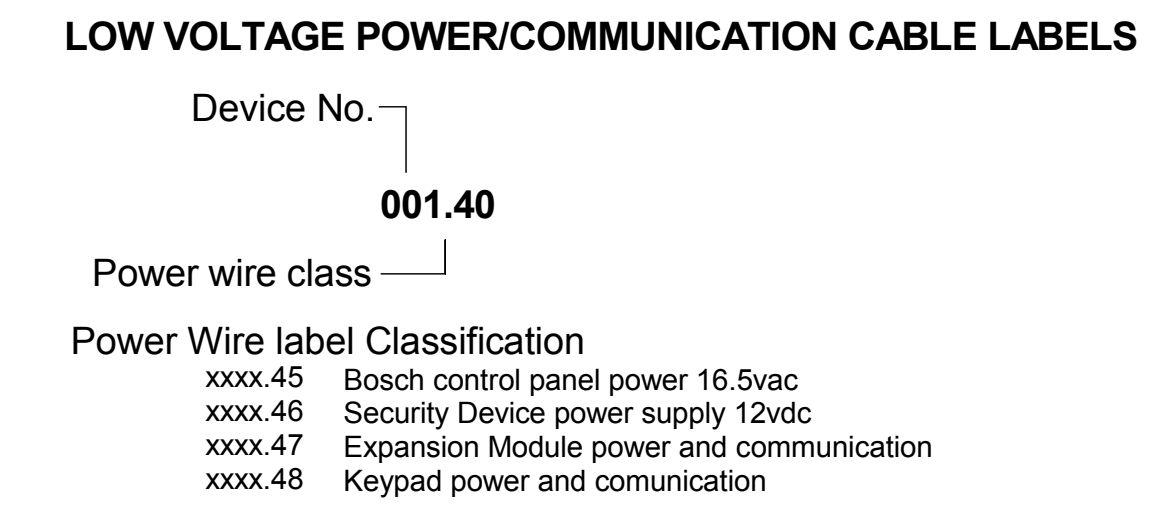
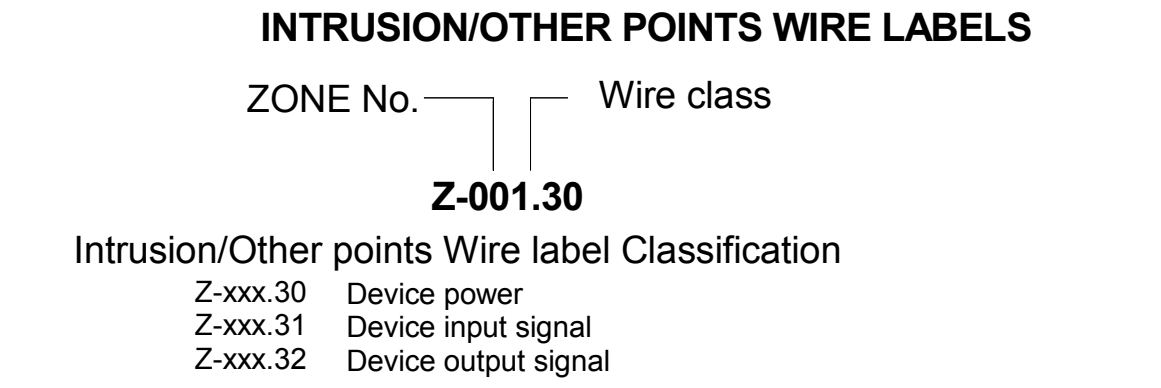
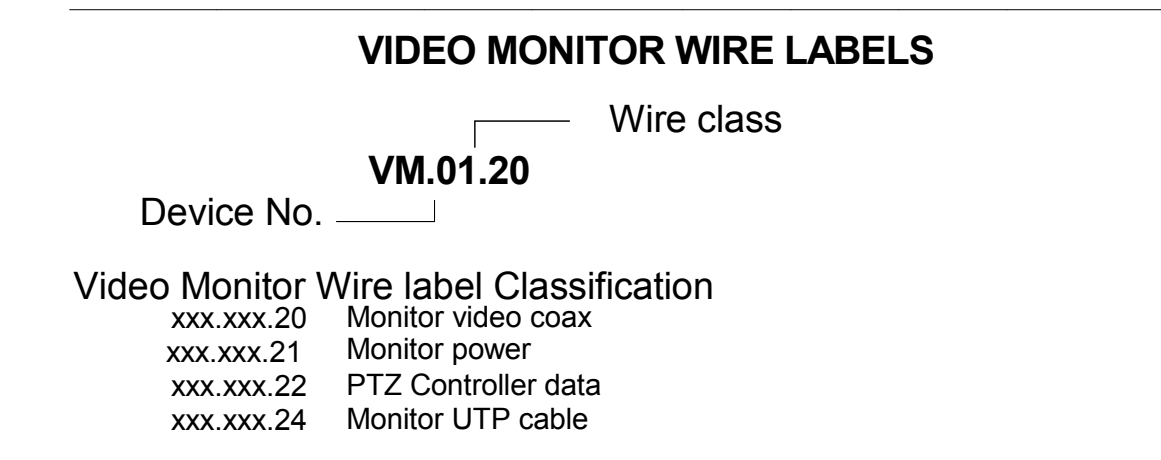
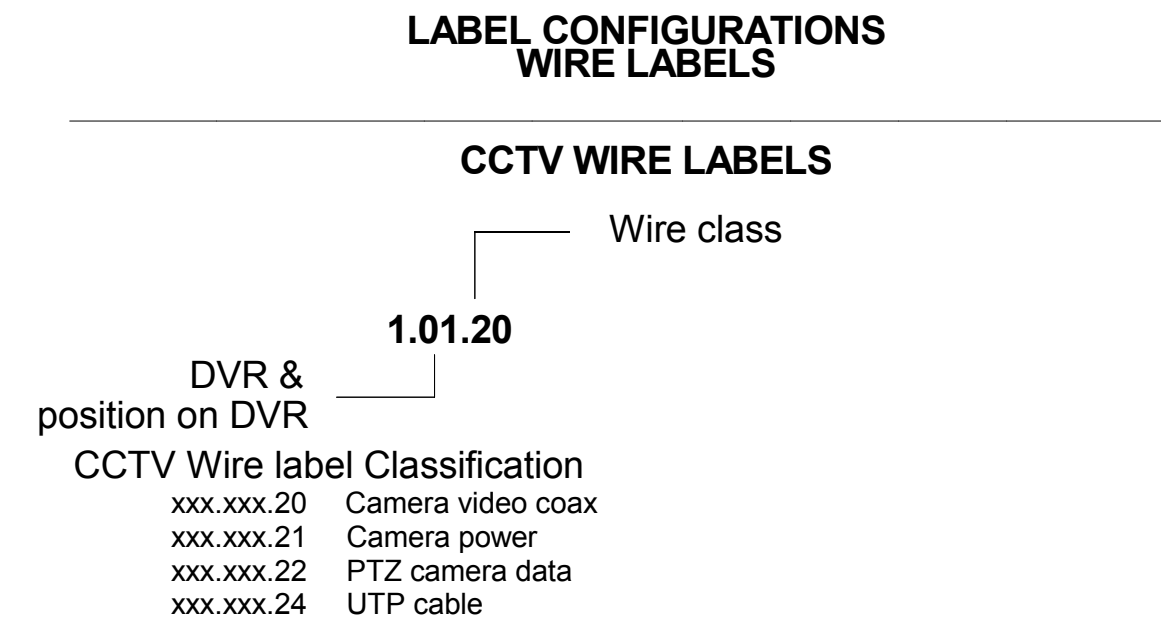
- 1. Any 110V AC electrical work will be provided by Electrical subcontractor.
2. Review and coordinate electrical power system installation with the Electrical Trade Contractor to ensure proper function and operation of the Security systems.
3. Reference all electrical drawings and specifications for site standards regarding the installation of all electrical power.
4. Verify that all power circuits designed for Security equipment, both fixed-in-place and portable, are properly wired, phased and grounded.
5. Ensure distribution of electrical power within all equipment racks, enclosures and consoles.
6. Ensure Asset Tags are properly adhered to each device with a circuit board and asset data has been noted on the Asset Form.

H. Finishes

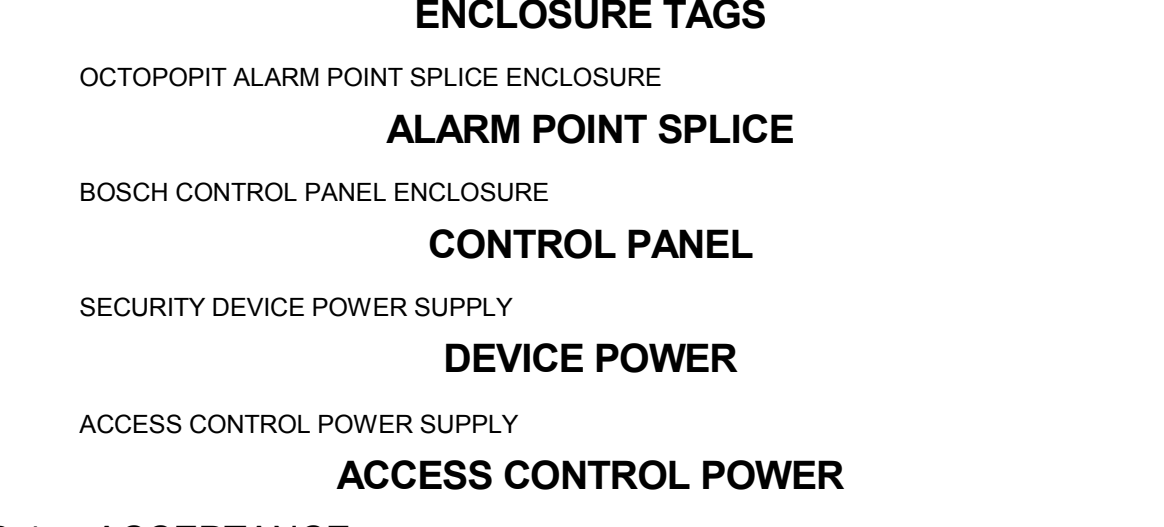
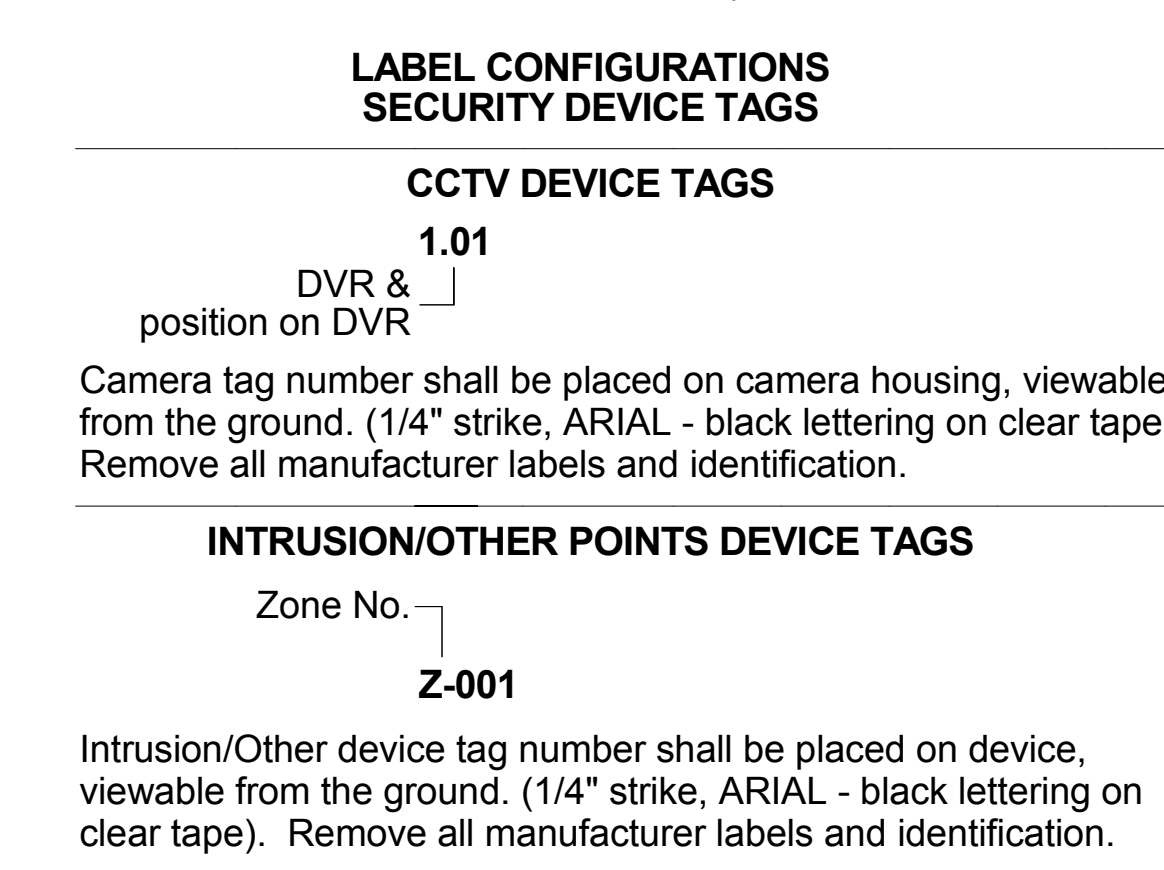
- 1. All enclosures, housings and supporting structures supplied by the Security Subcontractor not having a standard factory protective finish shall be painted.
2. Any equipment or materials supplied, which are exposed to public view, shall be approved by the Architect.
3. All enclosures at head end cluster shall have a clear plastic sleeve with an adhesive back installed inside enclosure on back side of door with an updated program sheet and or panel schedule for equipment and points installed in enclosure.

3.3 IDENTIFICATION

A. All cabling shall be labeled as per below.



- A. All cables and terminal strips shall be labeled with machine generated black uppercase lettering on a permanent sleeve type labels.
B. Hand lettered label stock shall not be accepted for final installation.
C. If at any time during the project, the cable label becomes illegible or removed, the Contractor shall immediately replace it with a duplicate pre-printed cable label.
D. All cable IDs shall be both physically and visually accessible upon completion of the project.
E. All enclosures at head end cluster shall have a clear plastic sleeve with an adhesive back installed inside enclosure on back side of door with an updated program sheet and or panel schedule for equipment and points installed in enclosure.
F. All devices and enclosures shall be labeled as per below.



3.4 ACCEPTANCE

- A. Provide labor to conduct a thorough pre-test and final acceptance test using report/documentation forms and script provided.
B. During acceptance testing, provide services of a fully qualified security systems technician who is knowledgeable of the project.
C. Using the commissioning test data, the Owner/Engineer and/or his representative shall select, at random, functions to be demonstrated.
D. Furnish instruments required for testing.
E. After the acceptance tests are complete and the system is demonstrated to be functioning as specified, a thirty-day endurance test period requiring only routine maintenance and adjustment.
F. If acceptance is delayed because of defects in or failure of equipment or because the installation fails to meet the requirements of this specification.
G. Coordinate testing period so that free access, work lighting and electrical power are available on site.
H. Ensure that technical areas are in clean and orderly condition, ready for acceptance testing.
I. Submit to Security Project Manager within 30 days of project commissioning.

END OF SECTION

General Notes:

Project Title:



Fidelity Real Estate Company 245 Summer Street Boston, MA 20110

7171 E. Paradise Lane Suite R-120 Scottsdale, AZ 85254

Table with 3 columns: Number, Description, Date. Row 1: 1, Issued for Permit & Construction, 23 DEC 24.

Key Plan:

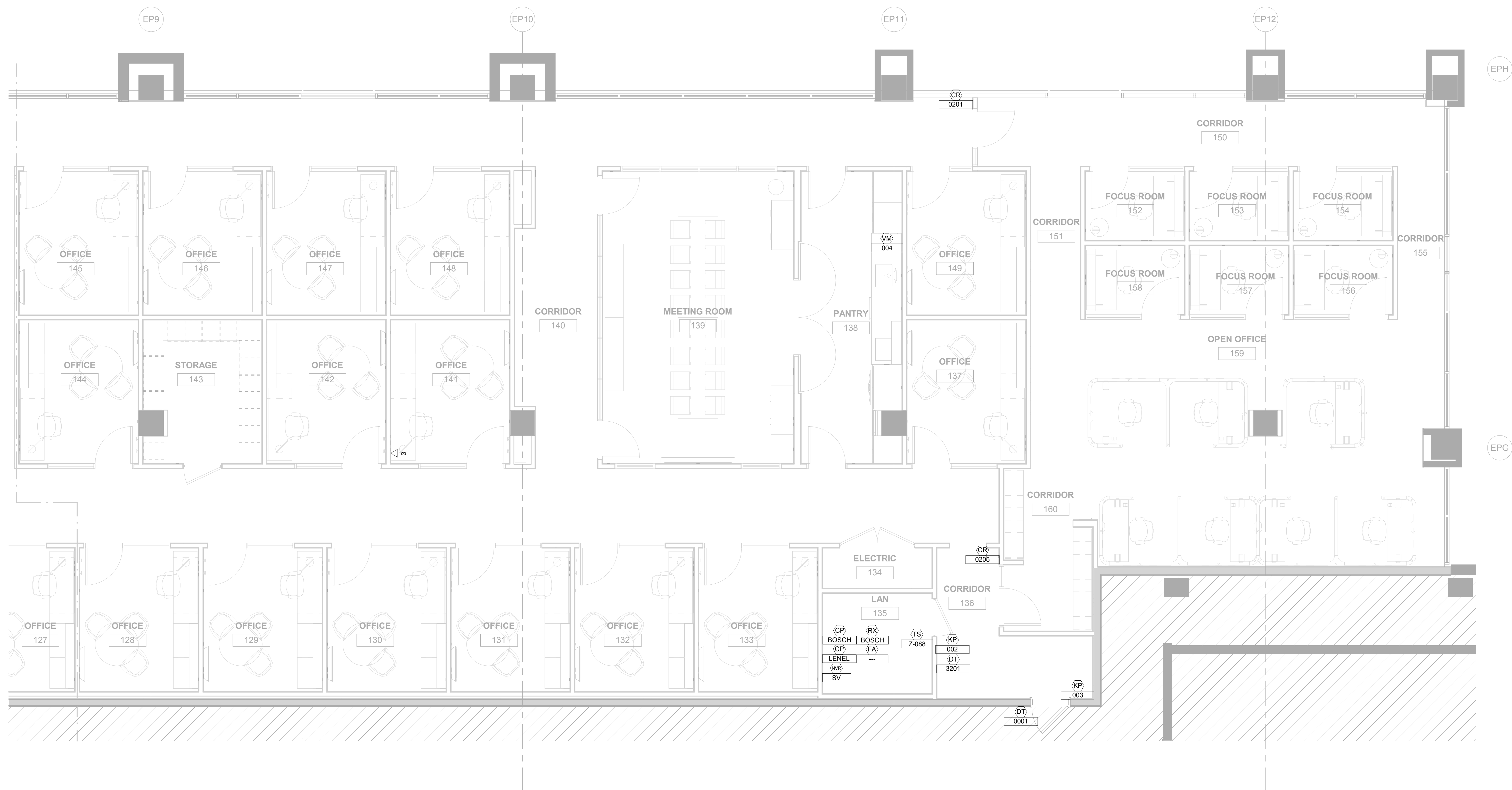
ISC NUMBER	61##
ISC NAME	61##_IC_1_134

READER ADDRESS	REF.#	READER TYPE	DESCRIPTION (23 CHARACTERS)	LOCK CONFIG.	CONTACT CONFIG.	EGRESS CONFIG.	HARDWARE REFERENCE	SOFTWARE REFERENCE	PERIMETER	LOCK TYPE MANUFACTURE	PERIMETER CAMERA	COMMENTS
3201	61##3201	PIN - 12VDC	1_134_LAN_DR	N.O	N.C	N.O	BOARD 0	ADDRESS 0	NO	MORTISE		ONBOARD READER
OUTPUT 1				INPUT 1	INPUT 2	READER 1		SCHLAGE				
3205	61##3205	PIN - 12VDC	1_134_FRONT_ENTRY	N.O	N.C	N.O	BOARD 0	ADDRESS 1	YES	EXTERIOR TRIM	1.51	ONBOARD READER
OUTPUT 4				INPUT 5	INPUT 6	READER 2		VON DUPRIN				
0001	61##0001	PIN - 12VDC	1_134_REAR_ENTRY	N.O	N.C	N.O	BOARD 1	ADDRESS 2	YES	STRIKES	1.65	
OUTPUT 1				INPUT 1	INPUT 2	READER 1		FOLGER ADAMS				
0005	61##0005	CARD - 12VDC	1_134_SECR_LBY_DR_OPS	N.O	N.C	N.O	BOARD 1	ADDRESS 3	NO	MORTISE		
OUTPUT 4				INPUT 5	INPUT 6	READER 2		SCHLAGE				
0101	61##0101	CARD - 12VDC	1_134_SECR_LBY_DR_HW106	N.C	N.C	N.O	BOARD 2	ADDRESS 4	NO	MORTISE		
OUTPUT 1				INPUT 1	INPUT 2	READER 1		SCHLAGE				
0105	61##0105	CARD - 12VDC	1_134_SECR_LBY_DR_HW_114	N.C	N.C	N.O	BOARD 2	ADDRESS 5	NO	MORTISE		
OUTPUT 4				INPUT 5	INPUT 6	READER 2		SCHLAGE				
0201	61##201	CARD - 12VDC	1_134_WEALTH	N.C	N.C	N.O	BOARD 3	ADDRESS 6	NO	MORTISE		
OUTPUT 1				INPUT 1	INPUT 2	READER 1		SCHLAGE				
0205	61##0205	CARD - 12VDC	1_134_WEALTH	N.C	N.C	N.O	BOARD 3	ADDRESS 7	NO			
OUTPUT 4				INPUT 5	INPUT 6	READER 2						
0301	61##205	CARD - 12VDC	1_134_GREETER_RDRL	N.C	N.C	N.O	BOARD 3	ADDRESS 7	NO			
OUTPUT 4				INPUT 5	INPUT 6	READER 2						
0305	61##0205	CARD - 12VDC	SPARE	N.C	N.C	N.O	BOARD 3	ADDRESS 7	NO			
OUTPUT 4				INPUT 5	INPUT 6	READER 2						

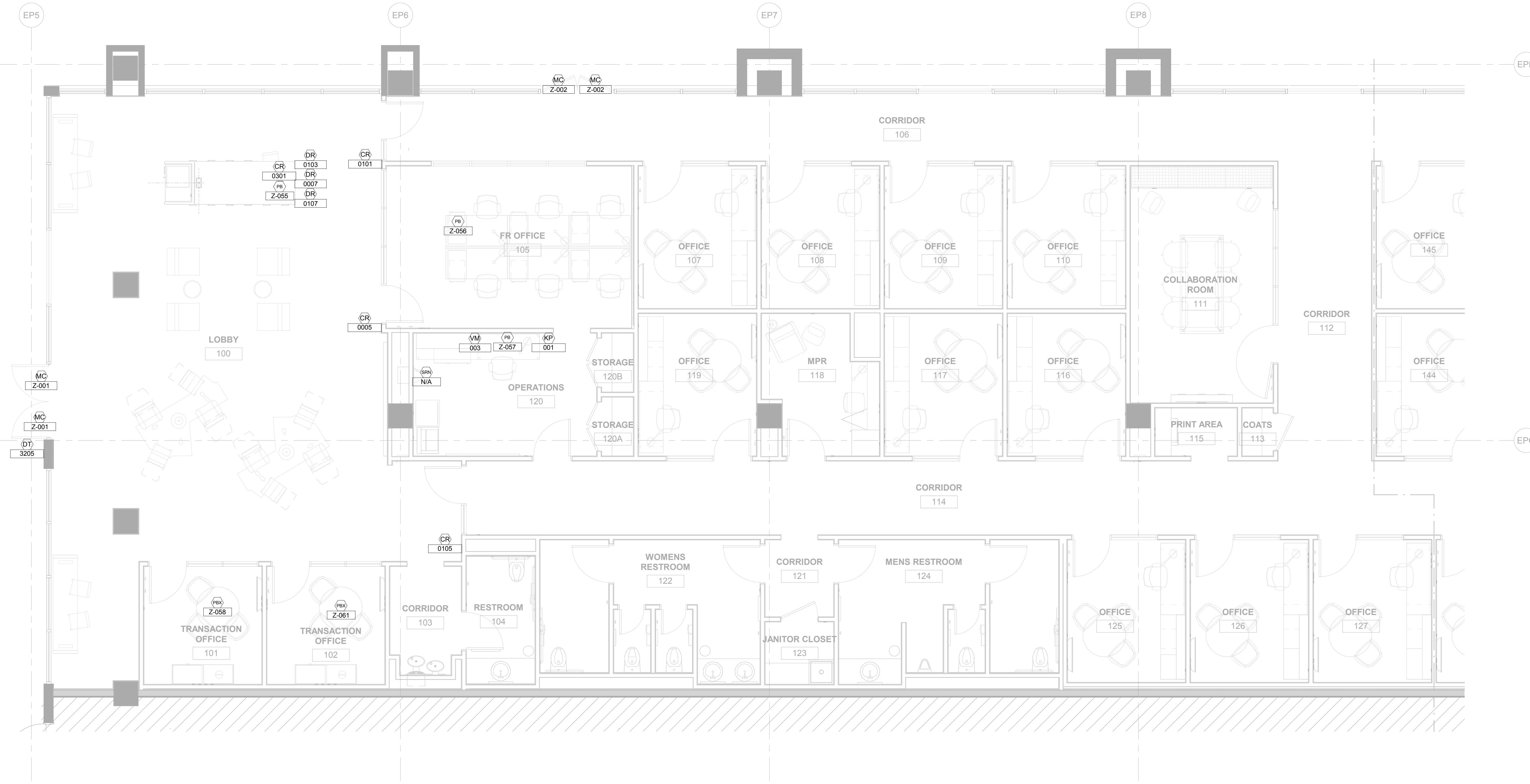
NOTES:

POINT ADDRESS	REF.#	POINT TYPE	DESCRIPTION (23 CHARACTERS MAX)	EOL	EOL LOCATION	CONTACT CONFIG.	# OF DEVICE ON INPUT	HARDWARE REFERENCE	PERIMETER DEVICE	ASSOCIATED CAMERA	SOFTWARE REFERENCE
3203		ISC LOW BATTERY	1_###_ISC.61##_LBAT	NO		N.O	1	BOARD 0 INPUT 3			BOARD 0 READER 1 AUX INPUT 1
3204		FIRE ALARM	1_##_FA	NO		N.O	1	BOARD 0 INPUT 4			BOARD 0 READER 1 AUX INPUT 2
3207				YES	DEVICE	N.O	1	BOARD 0 INPUT 7			BOARD 0 READER 2 AUX INPUT 1
3208				YES	DEVICE	N.O	1	BOARD 0 INPUT 8			BOARD 0 READER 2 AUX INPUT 2
0003				YES	DEVICE	N.O	1	BOARD 1 INPUT 3			BOARD 1 READER 1 AUX INPUT 1
0004				YES	DEVICE	N.O	1	BOARD 1 INPUT 4			BOARD 1 READER 1 AUX INPUT 2
0007		REMOTE DOOR RELEASE	1_###_RDRL.61##.0005	YES	DEVICE	N.O	1	BOARD 1 INPUT 7			BOARD 1 READER 2 AUX INPUT 1
0008				YES	DEVICE	N.O	1	BOARD 1 INPUT 8			BOARD 1 READER 2 AUX INPUT 2
0103		REMOTE DOOR RELEASE	1_###_RDRL.61##.0101	YES	DEVICE	N.O	1	BOARD 2 INPUT 3			BOARD 2 READER 1 AUX INPUT 1
0104				YES	DEVICE	N.O	1	BOARD 2 INPUT 4			BOARD 2 READER 1 AUX INPUT 2
0107		REMOTE DOOR RELEASE	1_###_RDRL.61##.0105	YES	DEVICE	N.O	1	BOARD 2 INPUT 7			BOARD 2 READER 2 AUX INPUT 1
0108				YES	DEVICE	N.O	1	BOARD 2 INPUT 8			BOARD 2 READER 2 AUX INPUT 2
0203				YES	DEVICE	N.O	1	BOARD 3 INPUT 3			BOARD 3 READER 1 AUX INPUT 1
0204				YES	DEVICE	N.O	1	BOARD 3 INPUT 4			BOARD 3 READER 1 AUX INPUT 2
0207				YES	DEVICE	N.O	1	BOARD 3 INPUT 7			BOARD 3 READER 2 AUX INPUT 1
0208				YES	DEVICE	N.O	1	BOARD 3 INPUT 8			BOARD 3 READER 2 AUX INPUT 2

Number	Description	Date
1	Issued for Permit & Construction	23 DEC 24

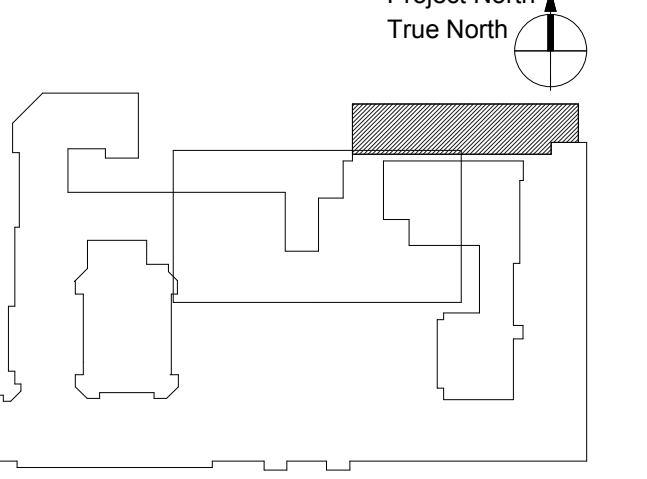


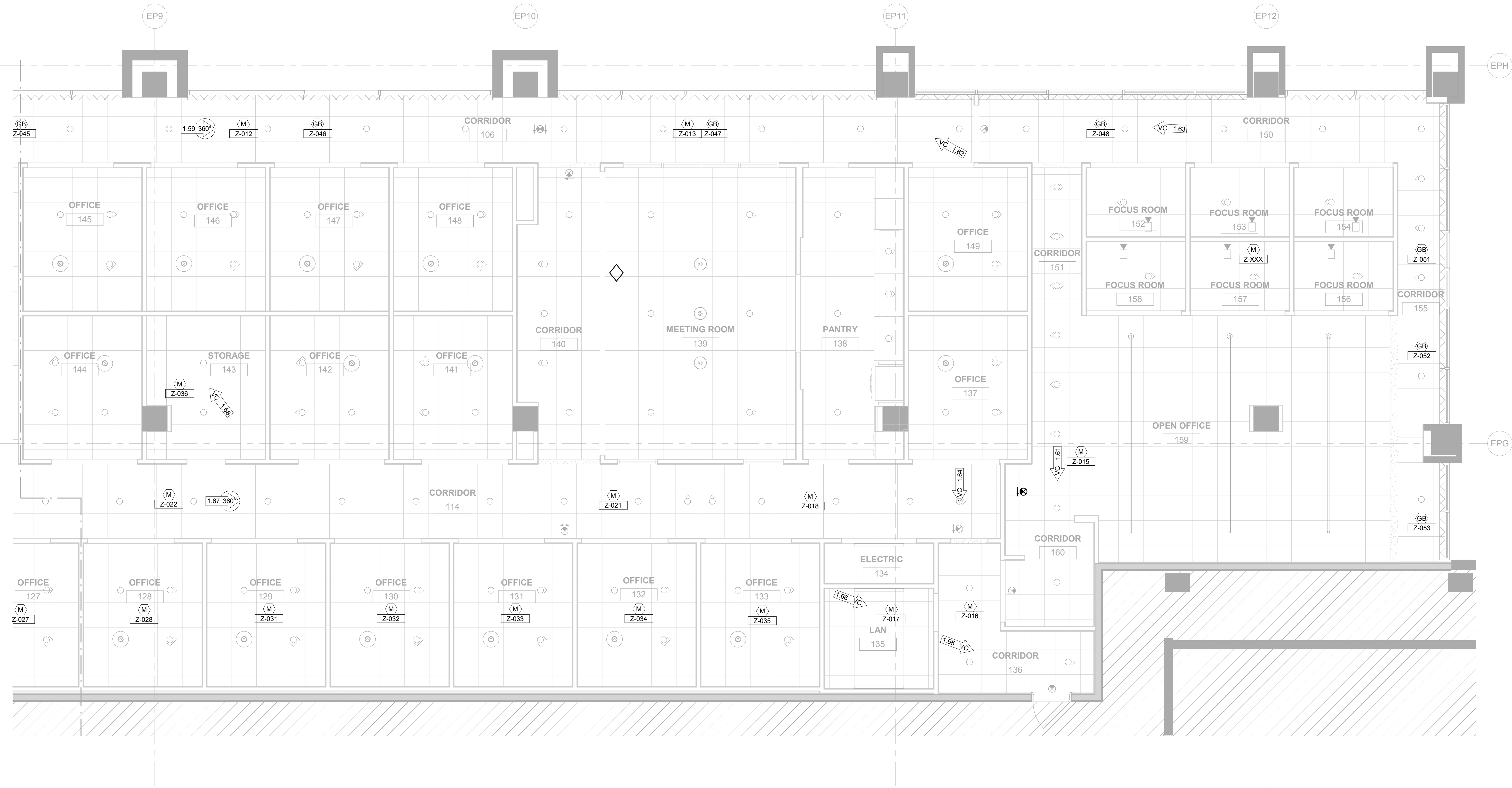
1 SECURITY - LEVEL 1 EAST
1/4" = 1'-0"



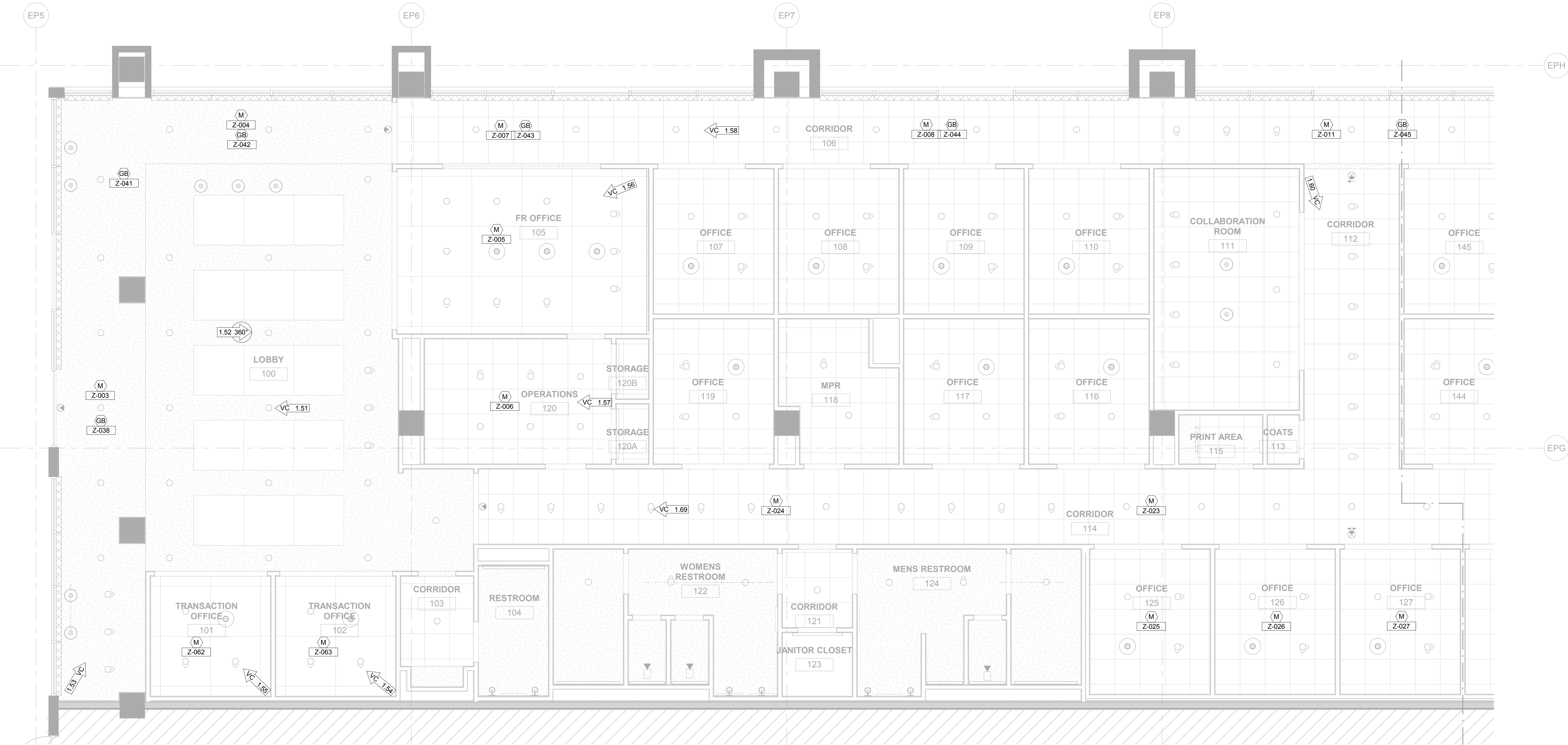
2 SECURITY - LEVEL 1 WEST
1/4" = 1'-0"

Number	Description	Date
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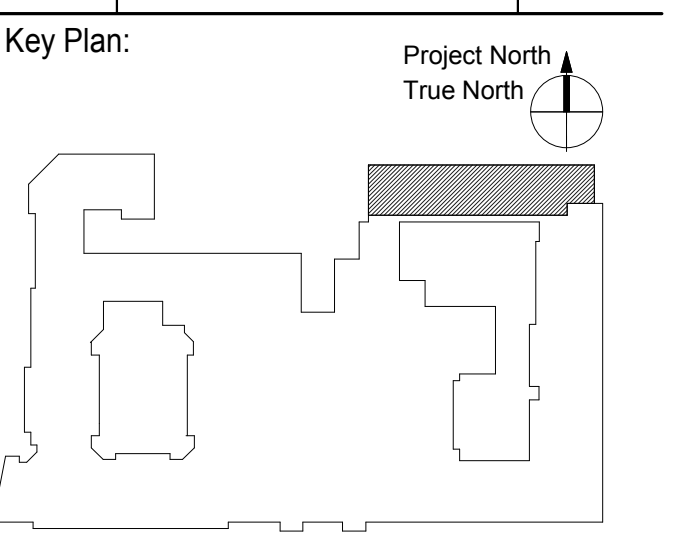


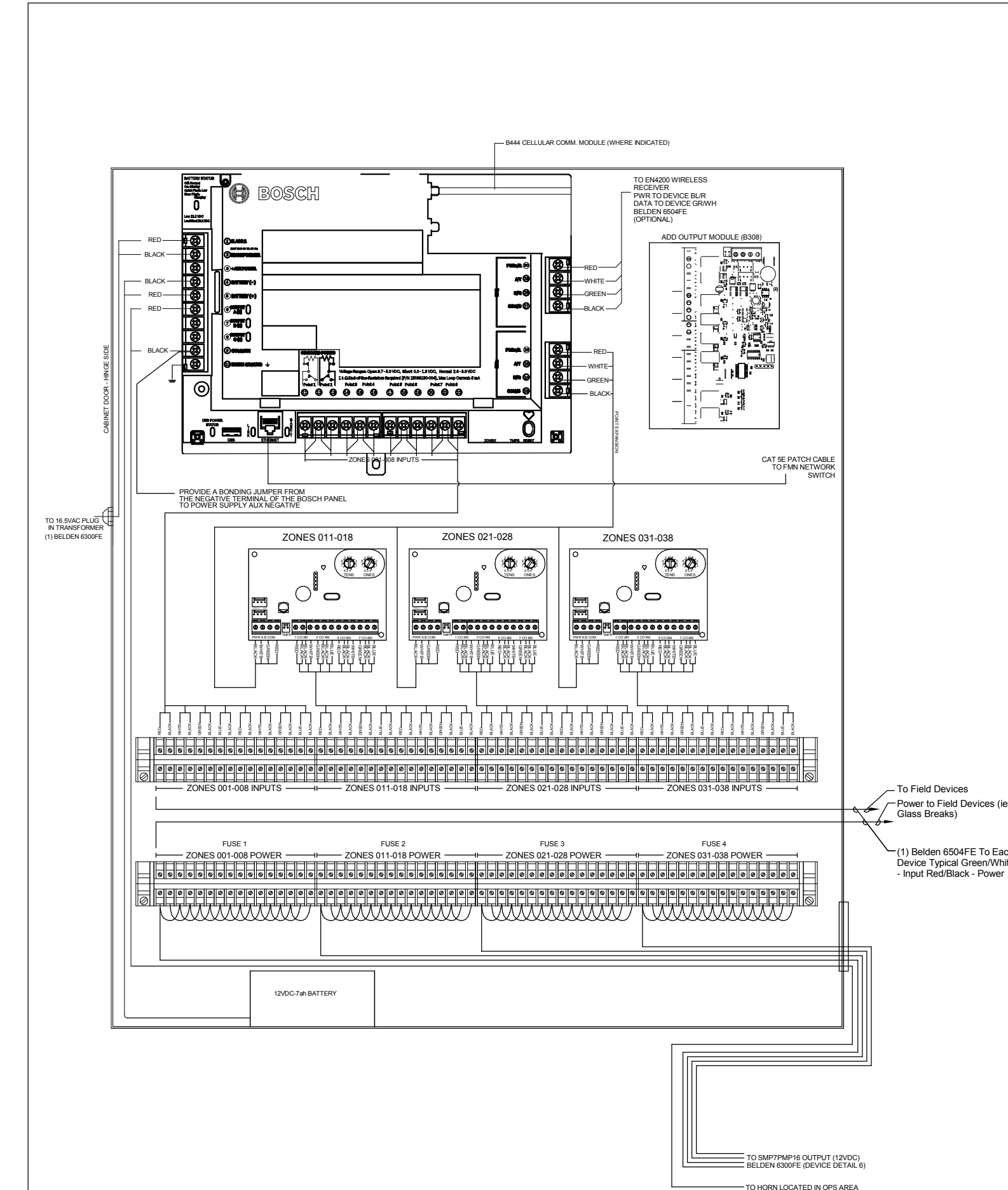
2 - LEVEL 1 EAST
1/4" = 1'-0"



1 - LEVEL 1 WEST
1/4" = 1'-0"

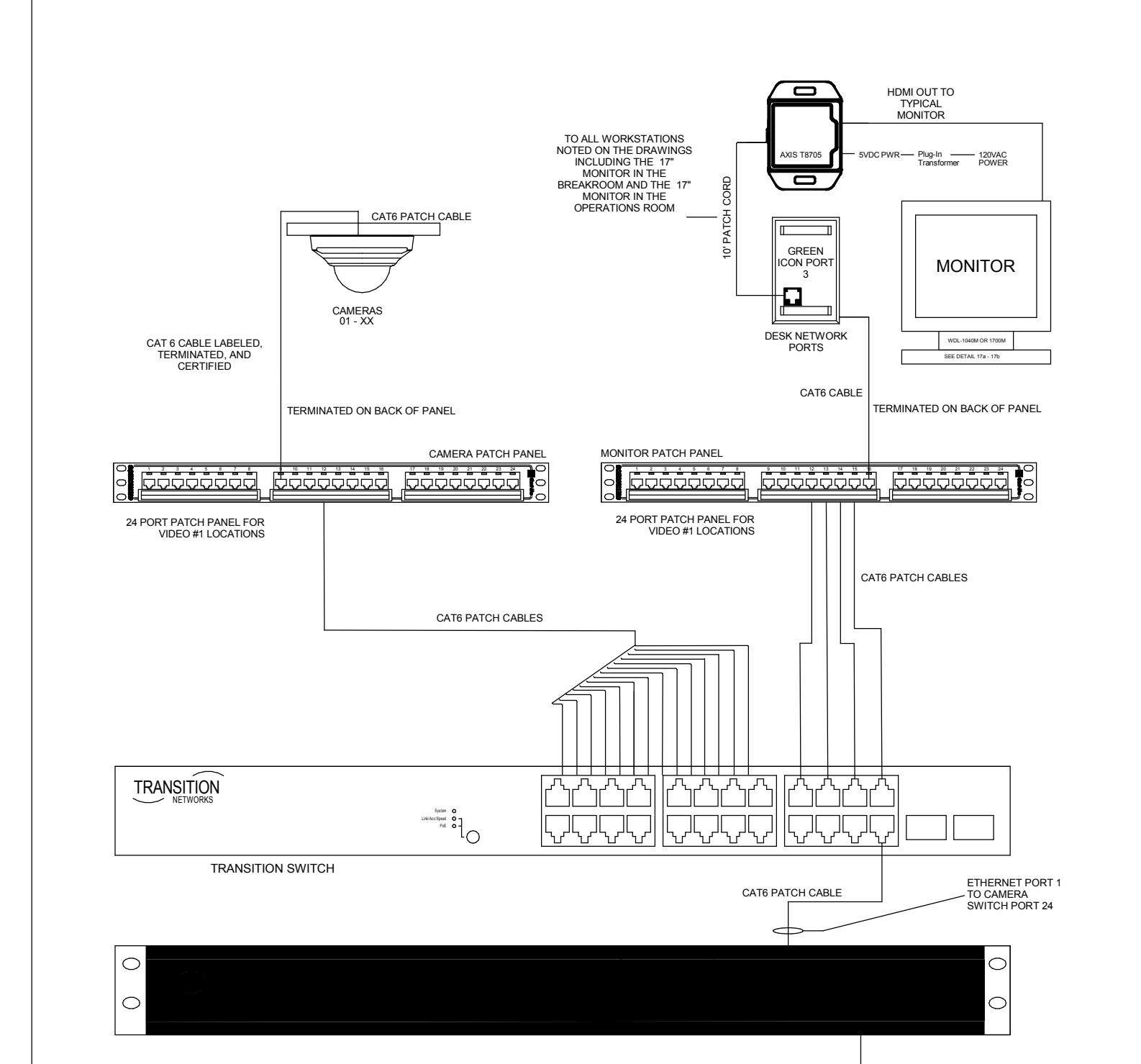
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1	Issued for Permit & Construction	23 DEC 24



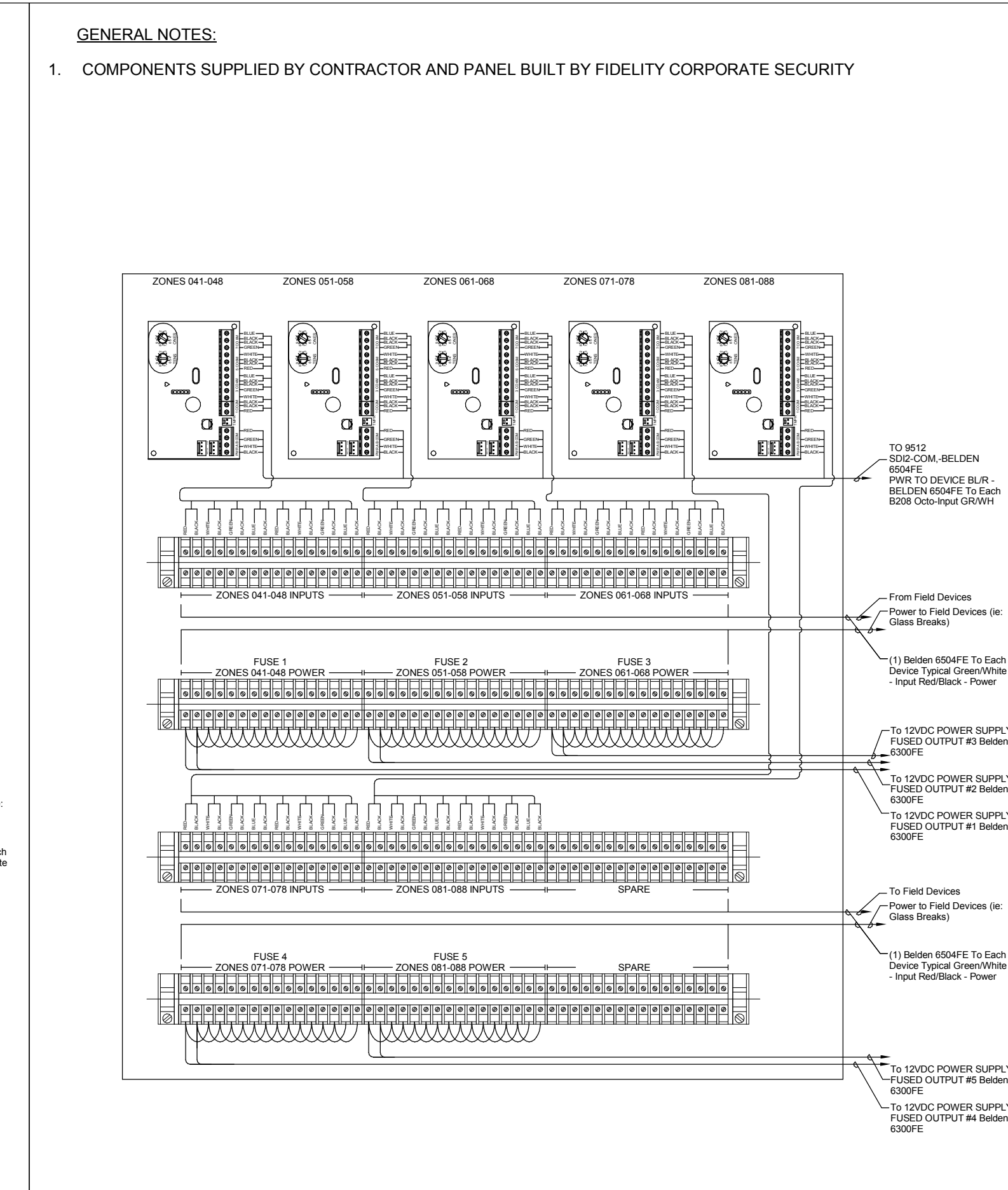


1 CUSTOM PANEL - BOSCH, ACCESS CONTROL POWER SUPPLY AND OCTO-INPUT ALARM POINT
SCALE: NTS

- GENERAL NOTES:
- NETWORK CONTRACTOR TO PROVIDE AND INSTALL CAT6 CABLE TO CAMERAS.
 - NETWORK CONTRACTOR TO PROVIDE ALL CAT6 PATCH CABLES (COLOR: GREEN).
 - NETWORK CONTRACTOR TO PROVIDE AND INSTALL FIBER IF NEEDED.
 - SECURITY VENDOR TO PROVIDE GENETEC ADVANTAGE LICENSES THROUGH OCTOBER 30TH 2027.
 - ALL ADDED CAMERAS REQUIRE CAMERA CONNECTION LICENSING.
 - ALL ADDED CAMERAS REQUIRE FALLOVER CAMERA LICENSING.
 - EACH NVR REQUIRES INTRUSION ALARM PANEL LICENSING BASED ON THE NUMBER OF ALARM PANELS ADDED.
 - SECURITY VENDOR TO SUPPLY SECURITY POE SWITCH # AS NEEDED.

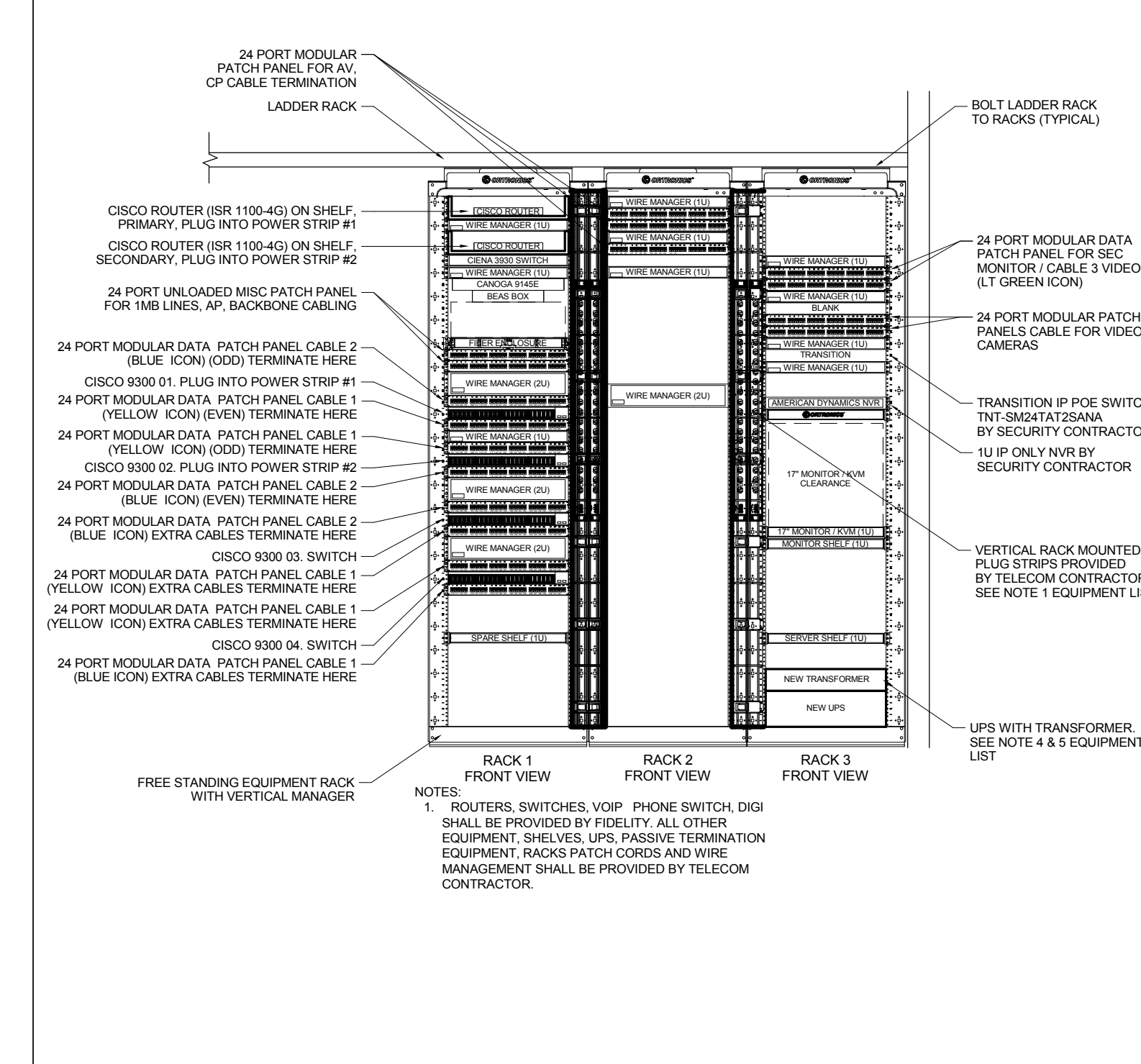


2 VIDEO - HEAD END VIDEO DISTRIBUTION (DECODER) - TYPICAL CABLING AND LAYOUT
SCALE: NTS

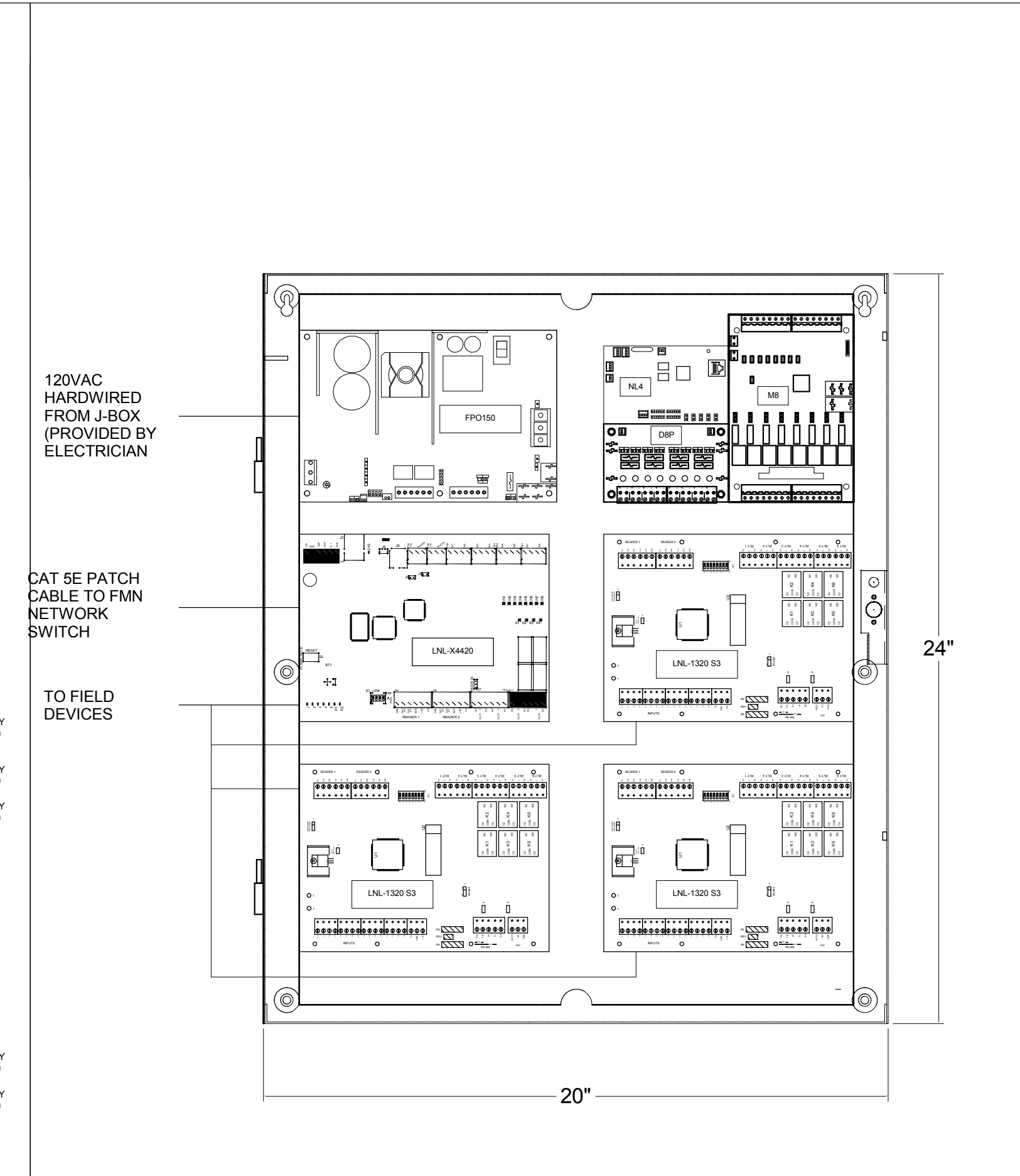


3 OCTO-INPUT ALARM POINT SPLICE BACKPLANE
SCALE: NTS

- GENERAL NOTES:
- COMPONENTS SUPPLIED BY CONTRACTOR AND PANEL BUILT BY FIDELITY CORPORATE SECURITY

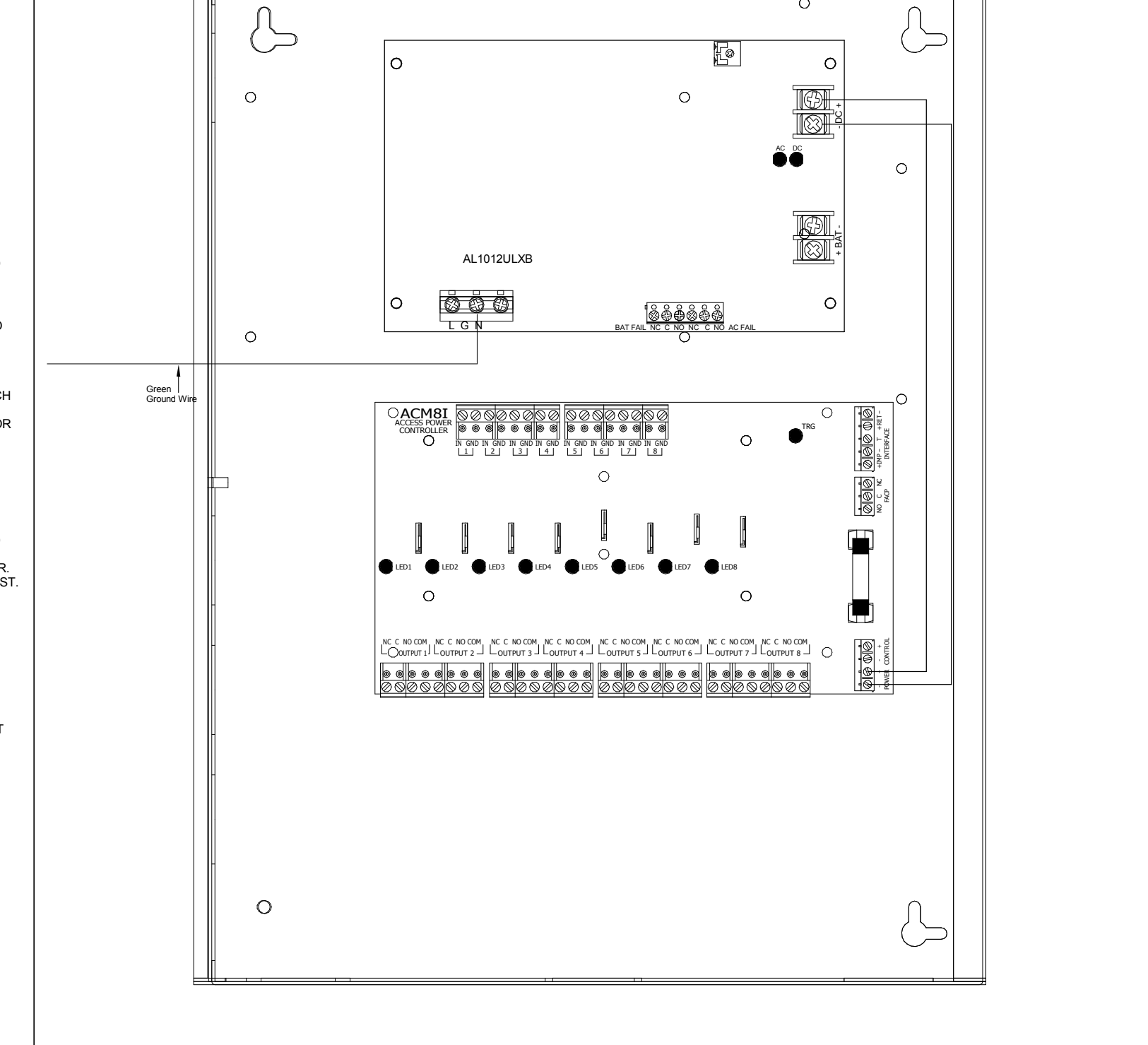


4 LAN TELECOMMUNICATIONS ROOM - RACK ELEVATION
SCALE: NTS

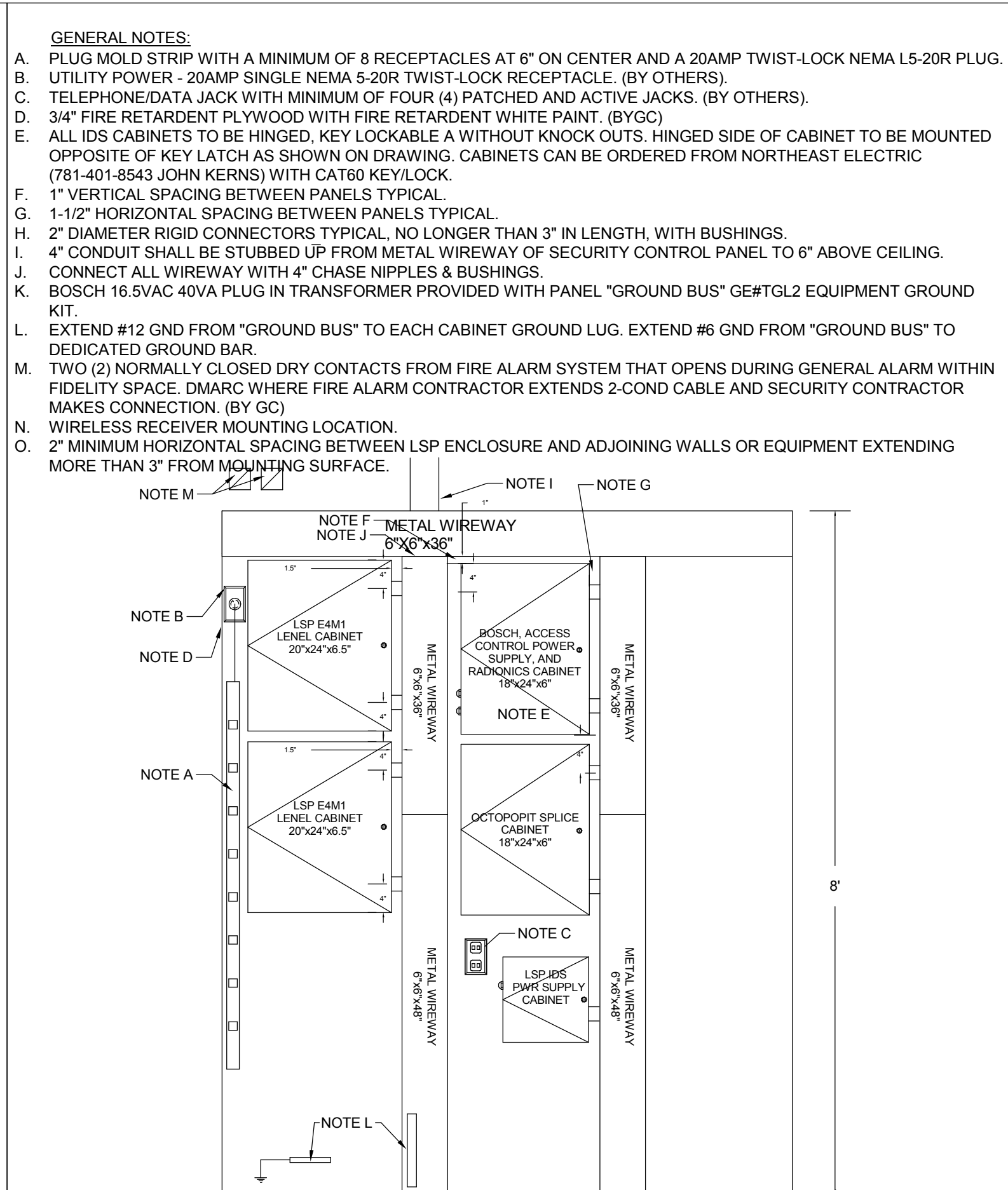


5 LIFESAFETY POWER MERCURY 8DR PRO WIRE ENCLOSURE
SCALE: NONE

- GENERAL NOTES:
- REQUIRED CAT 60 REPLACEMENT LOCK.
 - REQUIRED POLARIZED TYPE SUT POWER CORD.



6 IC INTRUSION DEVICE - POWER SUPPLY LAYOUT
SCALE: NTS



7 6-10" BOSCHENEL CONTROL PANEL LAYOUT
SCALE: NTS

- GENERAL NOTES:
- PLUG MOLD STRIP WITH A MINIMUM OF 8 RECEPTACLES AT 6" ON CENTER AND A 20AMP TWIST-LOCK NEMA LS-20R PLUG.
 - UTILITY POWER- 20AMP SINGLE LINE 5-20R TWIST-LOCK RECEPTACLE (BY OTHERS).
 - TELEPHONE/DATA JACK WITH MINIMUM OF FOUR (4) PATCHED AND ACTIVE JACKS. (BY OTHERS).
 - 3/4" FIRE RETARDANT PL WOOD WITH FIRE RETARDANT WHITE PAINT. (BY GC)
 - ALL IDS CABINETS TO BE HINGED, KEY LOCKABLE & WITHOUT KNOCK OUTS. HINGED SIDE OF CABINET TO BE MOUNTED OPPOSITE OF KEY LATCH AS SHOWN ON DRAWING. CABINETS CAN BE ORDERED FROM NORTHEAST ELECTRIC (781-843-3843) JOHN KEENE'S WITH CAT6 REVELOCK.
 - 1" VERTICAL SPACING BETWEEN PANELS TYPICAL.
 - 1/2" HORIZONTAL SPACING BETWEEN PANELS TYPICAL.
 - 2" DIAMETER RIGID CONNECTORS TYPICAL, NO LONGER THAN 3" IN LENGTH, WITH BUSHINGS.
 - CONDUIT SHALL BE STUBBED UP FROM METAL WIREWAY OF SECURITY CONTROL PANEL TO 6" ABOVE CEILING.
 - CONNECT ALL WIREWAY WITH 4" CHASE PIPES & BUSHINGS.
 - BOSCH 16.5VAC 40VA PLUS IN TRANSFORMER PROVIDED WITH PANEL "GROUND BUS" GE#T02LZ EQUIPMENT GROUND KIT.
 - EXTEND #12 GND FROM "GROUND BUS" TO EACH CABINET GROUND LUG. EXTEND #6 GND FROM "GROUND BUS" TO DEDICATED GROUND BAR.
 - TWO (2) NORMALLY CLOSED DRY CONTACTS FROM FIRE ALARM SYSTEM THAT OPENS DURING GENERAL ALARM WITHIN FIDELITY SPACE. DMARC WHERE FIRE ALARM CONTRACTOR EXTENDS 2-COND CABLE AND SECURITY CONTRACTOR MAKES CONNECTION. (BY GC)
 - WIRELESS RECEIVER MOUNTING LOCATION.
 - 2" MINIMUM HORIZONTAL SPACING BETWEEN LSP ENCLOSURE AND ADJOINING WALLS OR EQUIPMENT EXTENDING MORE THAN 3" FROM MOUNTING SURFACE.



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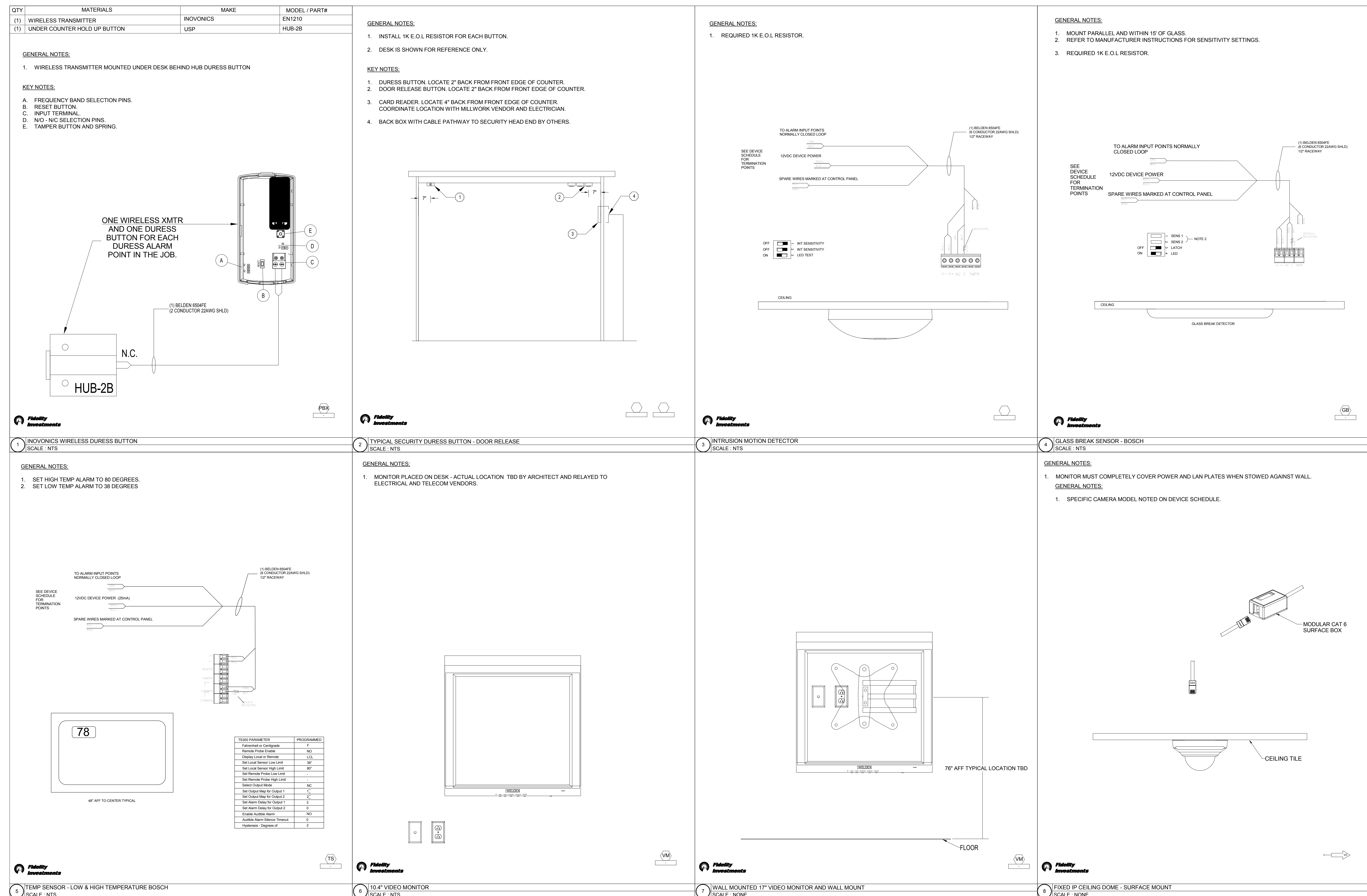
Key Plan:

Project No.: C0115.00
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Drawing Sheet Title:
SECURITY - DEVICE CONTROL EQUIPMENT

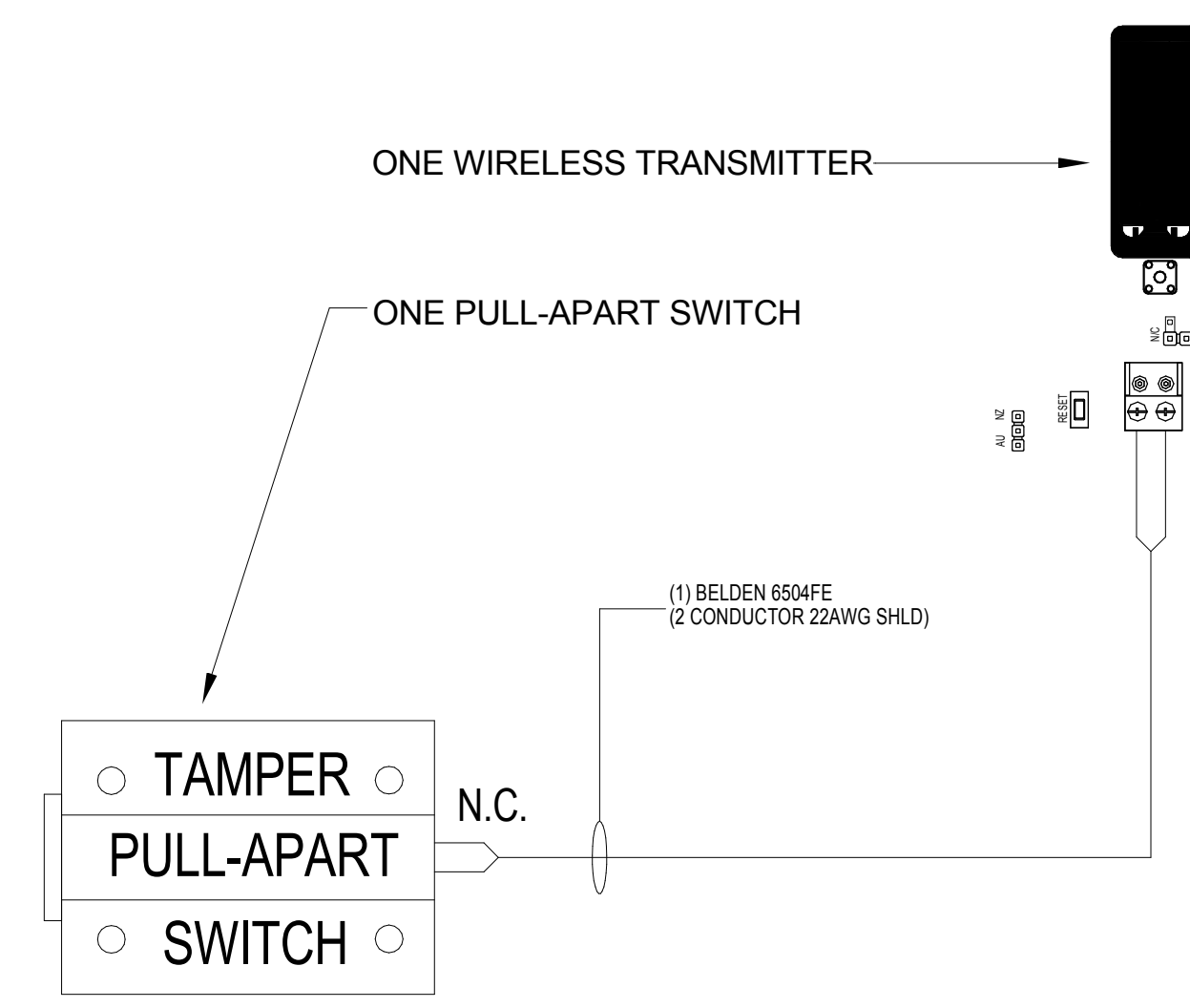
Drawing Sheet Number:
SE-300

Owner's Branch No:



QTY	MATERIALS	MAKE	MODEL / PART#
(1)	WIRELESS TRANSMITTER	INOVOVICS	EN1210
(1)	PULL-APART SWITCH W/ ARMORED JACKETED LEADS	GEORGE RISK INDUSTRIES (GRI)	4714A

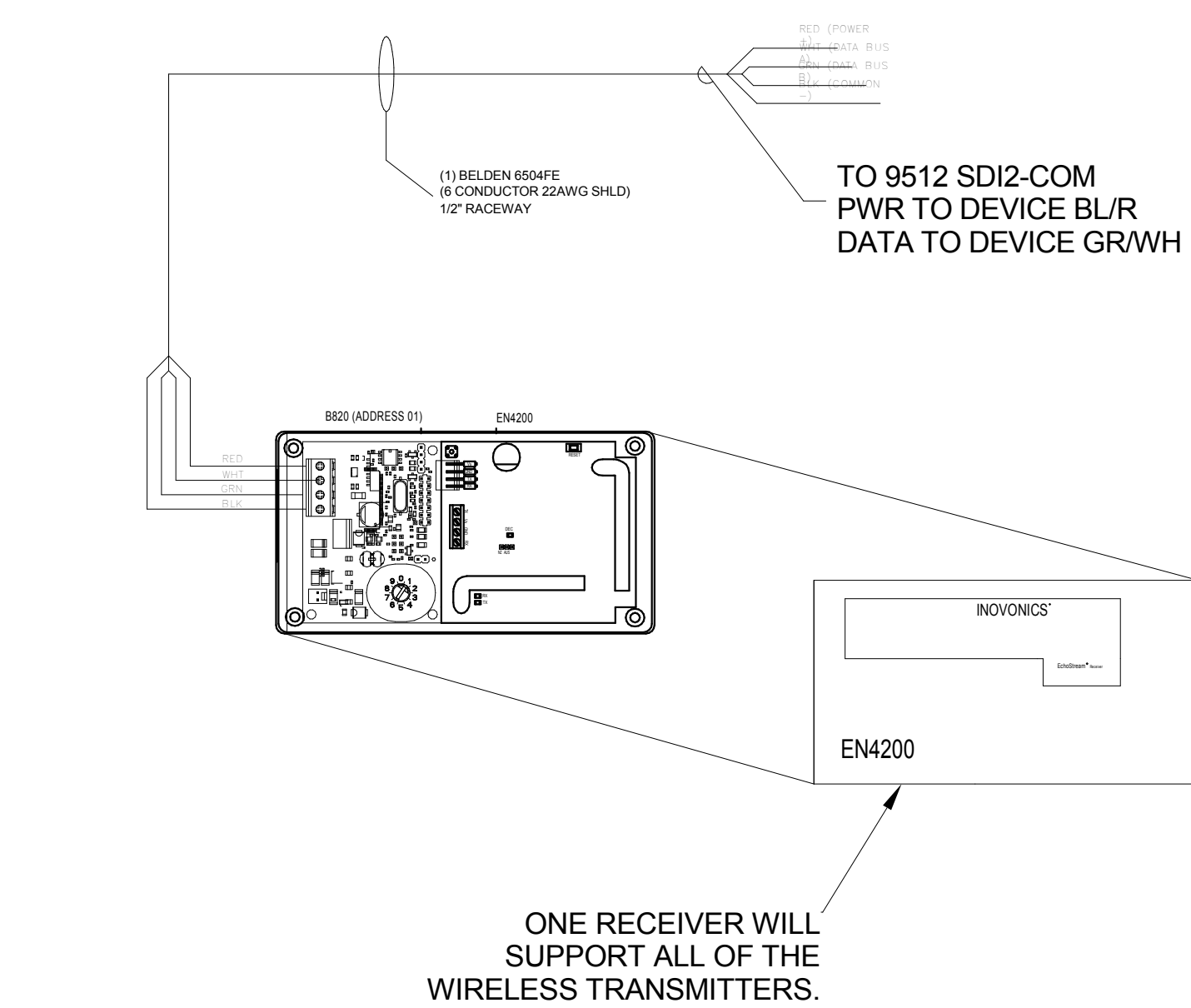
- GENERAL NOTES:
1. WIRELESS TRANSMITTER MOUNTED UNDER KIOSK COUNTER TOP
 2. PULL-APART SWITCH HOUSING TO BE MOUNTED TO FLOOR UNDER FALSE KIOSK FLOOR.



1 INOVOVICS WIRELESS TAMPER SWITCH
SCALE: NTS

QTY	MATERIALS	MAKE	MODEL / PART#
(1)	ANSWERING STATION - INDOOR COMPACT	INOVOVICS	EN4200

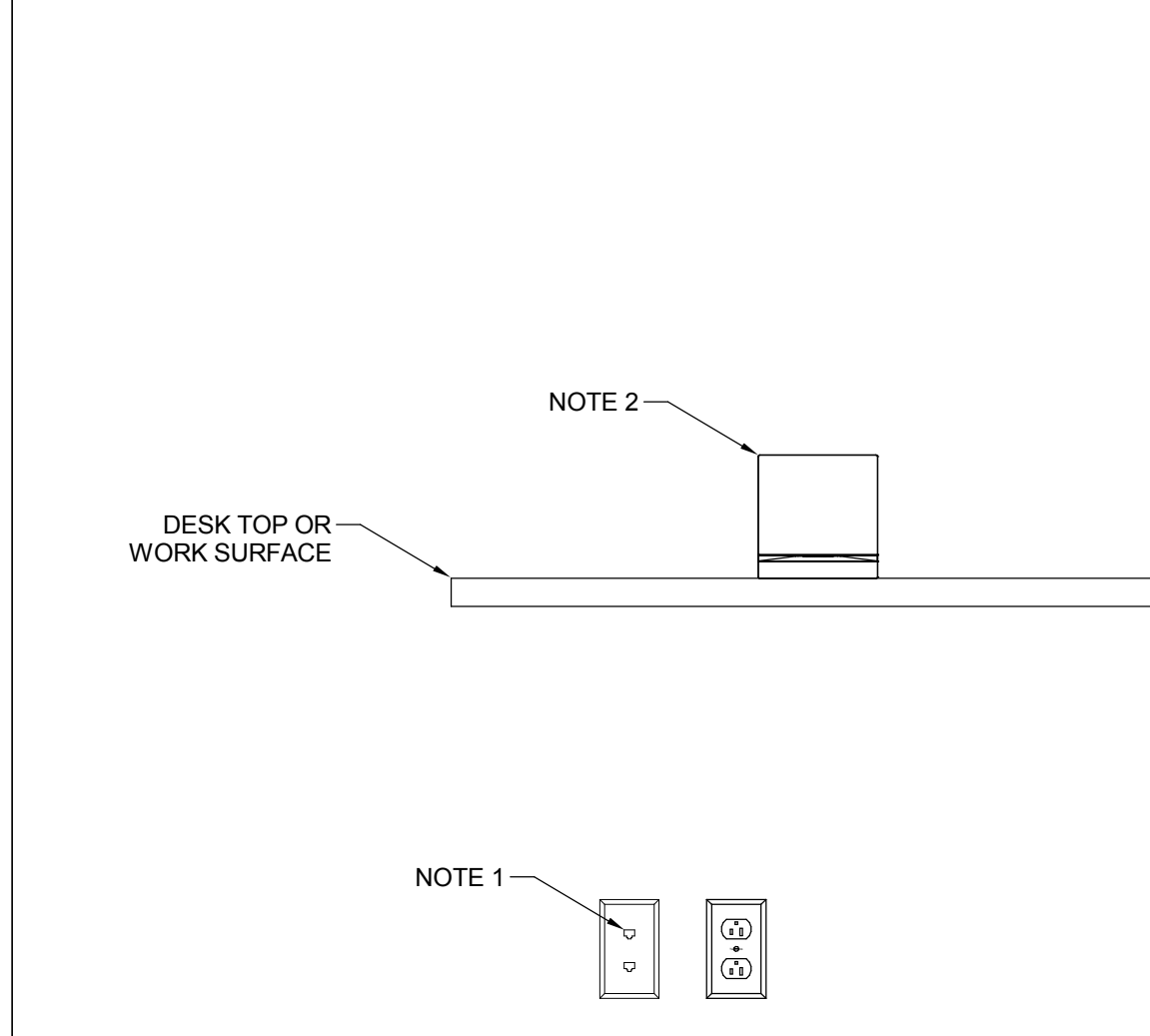
- GENERAL NOTES:
1. ANSWERING STATION PLACED ON DESK - ACTUAL LOCATION TBD BY ARCHITECT AND RELAYED TO ELECTRICAL AND TELECOM VENDORS.
- KEY NOTES:
1. LAN JACK PATCHED TO SECURITY PATCH PANEL (GREEN LABEL)
 2. ANSWERING STATION TO BE PROVIDED WITH SUITABLE DESK STAND (BY SECURITY CONTRACTOR)



2 INOVOVICS WIRELESS RECEIVER KIT
NTS

QTY	MATERIALS	MAKE	MODEL / PART#
(1)	ANSWERING STATION - INDOOR COMPACT	INOVOVICS	EN4200

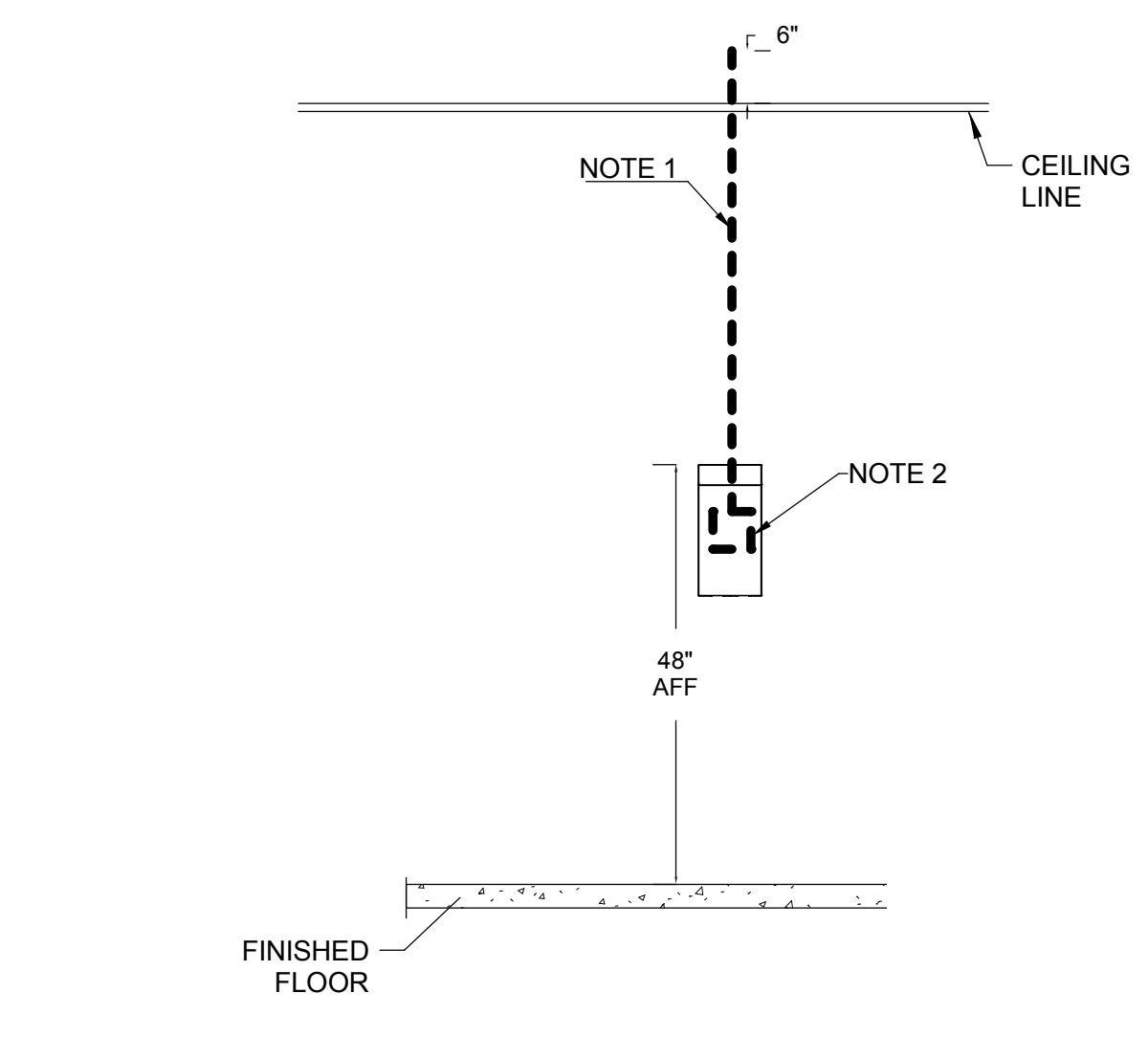
- GENERAL NOTES:
1. ANSWERING STATION PLACED ON DESK - ACTUAL LOCATION TBD BY ARCHITECT AND RELAYED TO ELECTRICAL AND TELECOM VENDORS.
- KEY NOTES:
1. LAN JACK PATCHED TO SECURITY PATCH PANEL (GREEN LABEL)
 2. ANSWERING STATION TO BE PROVIDED WITH SUITABLE DESK STAND (BY SECURITY CONTRACTOR)



3 2N ANSWERING STATION - INDOOR COMPACT
NTS

QTY	MATERIALS	MAKE	MODEL / PART#
(1)	DOOR STATION - IP STYLE	INOVOVICS	EN4200

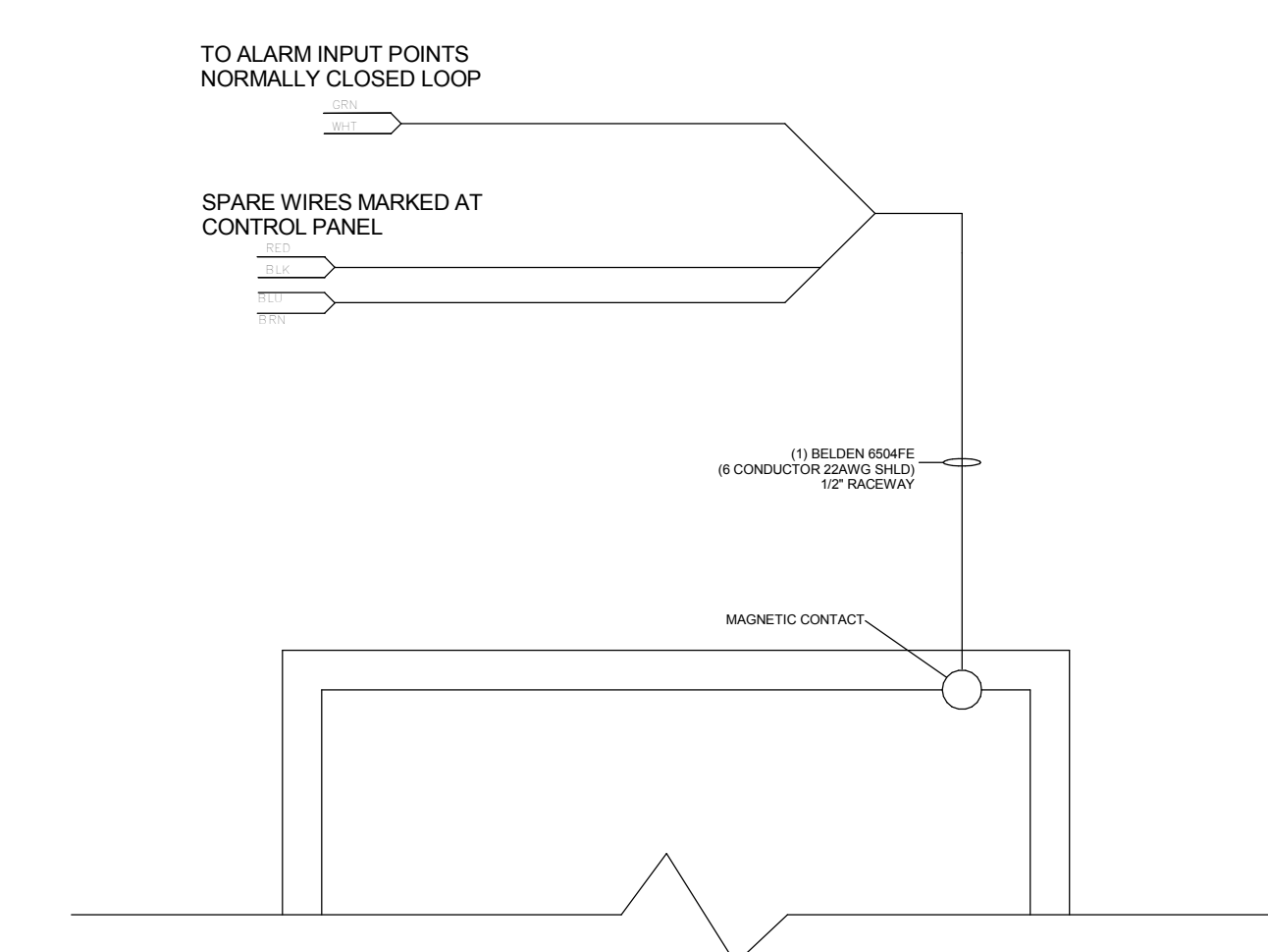
- GENERAL NOTES:
1. DOOR STATION TO BE SURFACE MOUNTED ON WALL UNLESS CLEARANCES REQUIRE FLUSH MOUNTING
 2. TOPMOST OPERABLE PORTION OF DOOR STATION TO BE LOCATED 48" ABOVE FINISHED FLOOR
 3. POSE-8023 POWER AND ETHERNET REQUIRED. LAN CABLE PATCHED TO SECURITY PATCH PANEL (GREEN LABEL)
- KEY NOTES:
1. CONDUIT WITH PULL STRING FROM J-BOX TO 6" ABOVE CEILING OR OTHER COORDINATED ACCESSIBLE LOCATION
 2. 4" SQ. BOX WITH SINGLE GANG TRIM



4 2N DOOR STATION - IP STYLE
NTS

QTY	MATERIALS	MAKE	MODEL / PART#
(1)	TYPICAL MAG CONTACT WIRING DIAGRAM		

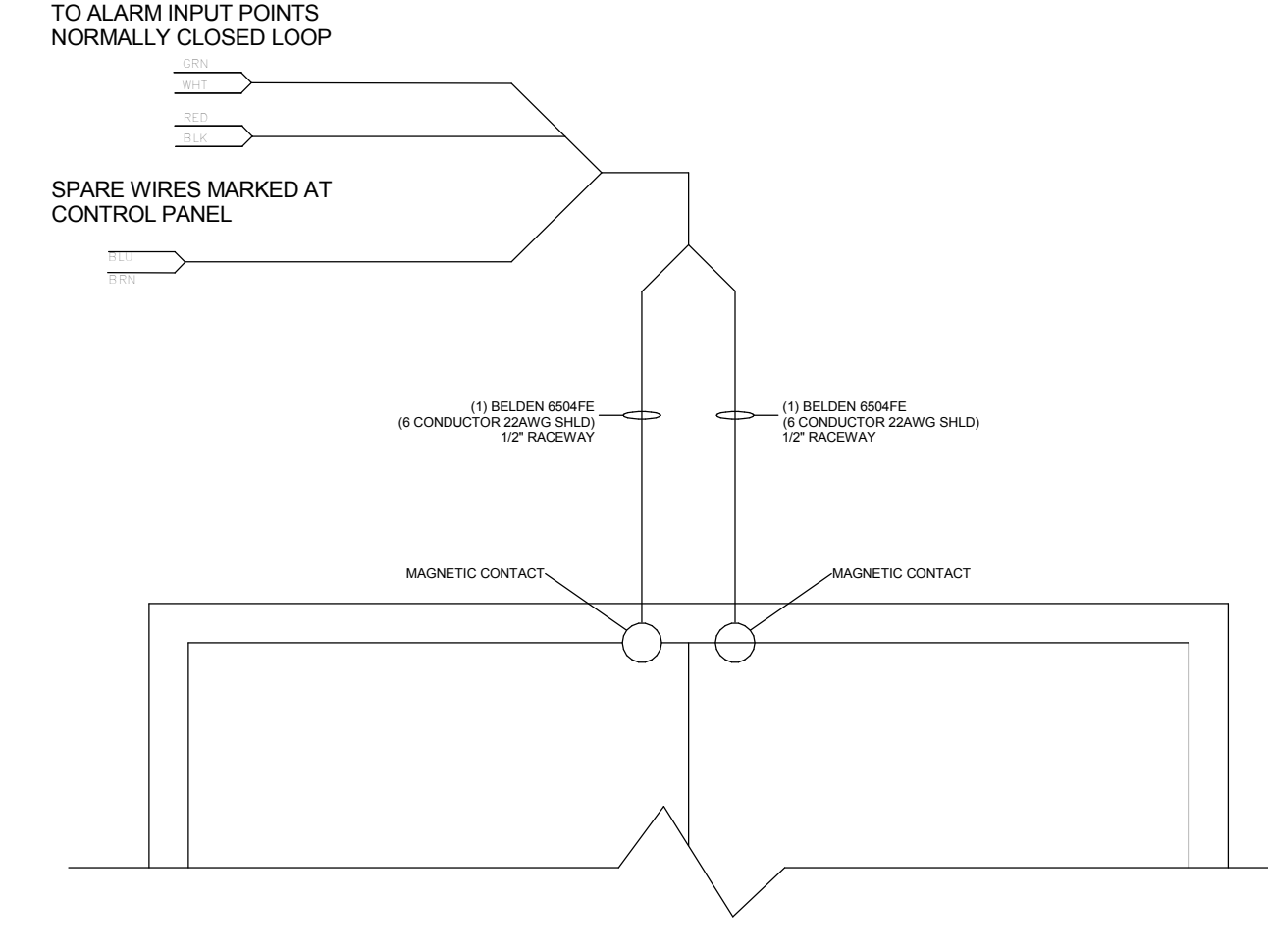
- GENERAL NOTES:
1. REQUIRED 1K E.O.L RESISTOR.



5 TYPICAL MAG CONTACT WIRING DIAGRAM
NTS

QTY	MATERIALS	MAKE	MODEL / PART#
(1)	TYPICAL MAG CONTACT WIRING DIAGRAM - DOUBLE DOOR		

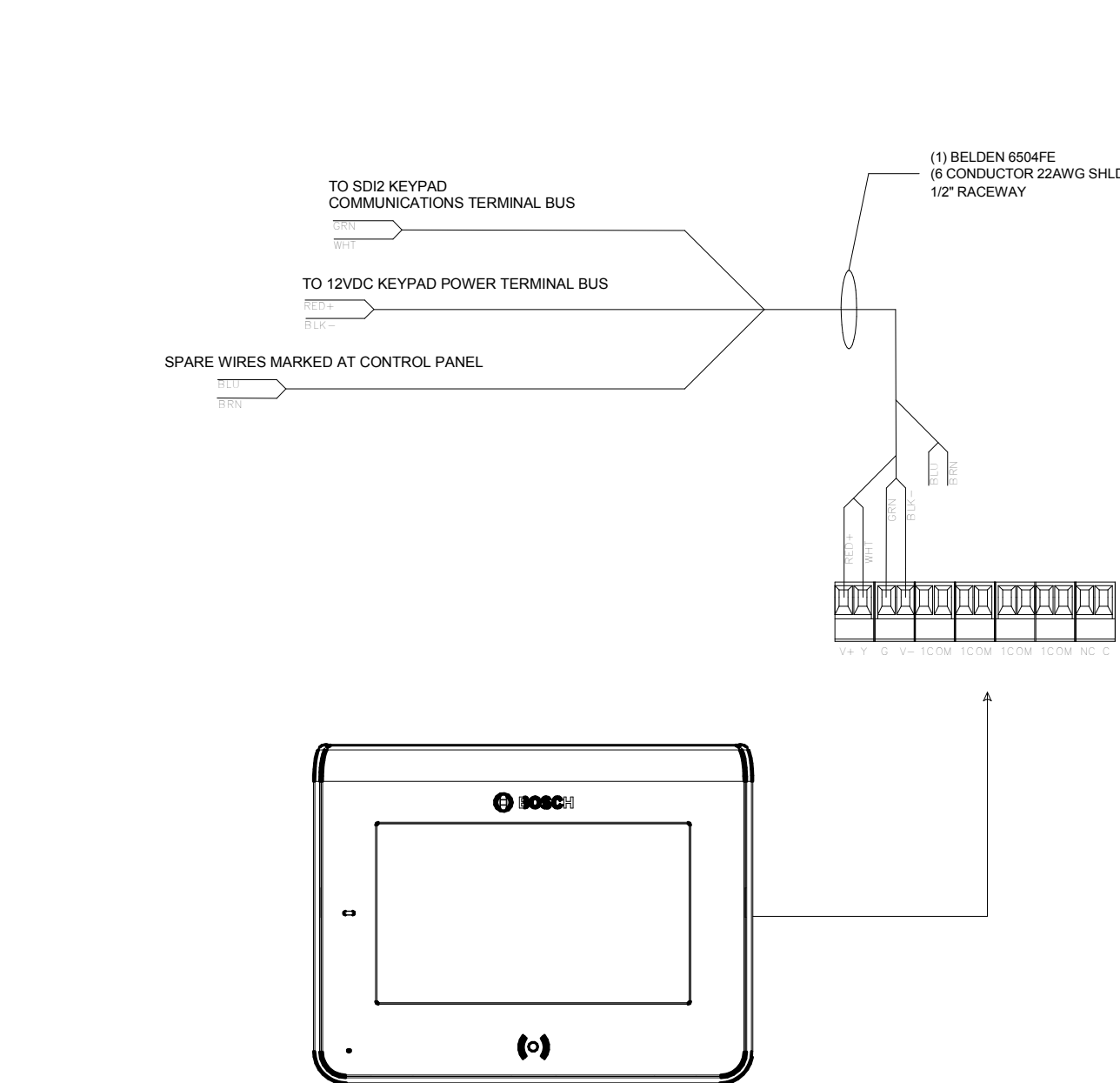
- GENERAL NOTES:
1. REQUIRED 1K E.O.L RESISTOR.



6 TYPICAL MAG CONTACT WIRING DIAGRAM - DOUBLE DOOR
NTS

QTY	MATERIALS	MAKE	MODEL / PART#
(1)	BOSCH ALARM KEYPAD SURFACE MOUNT		

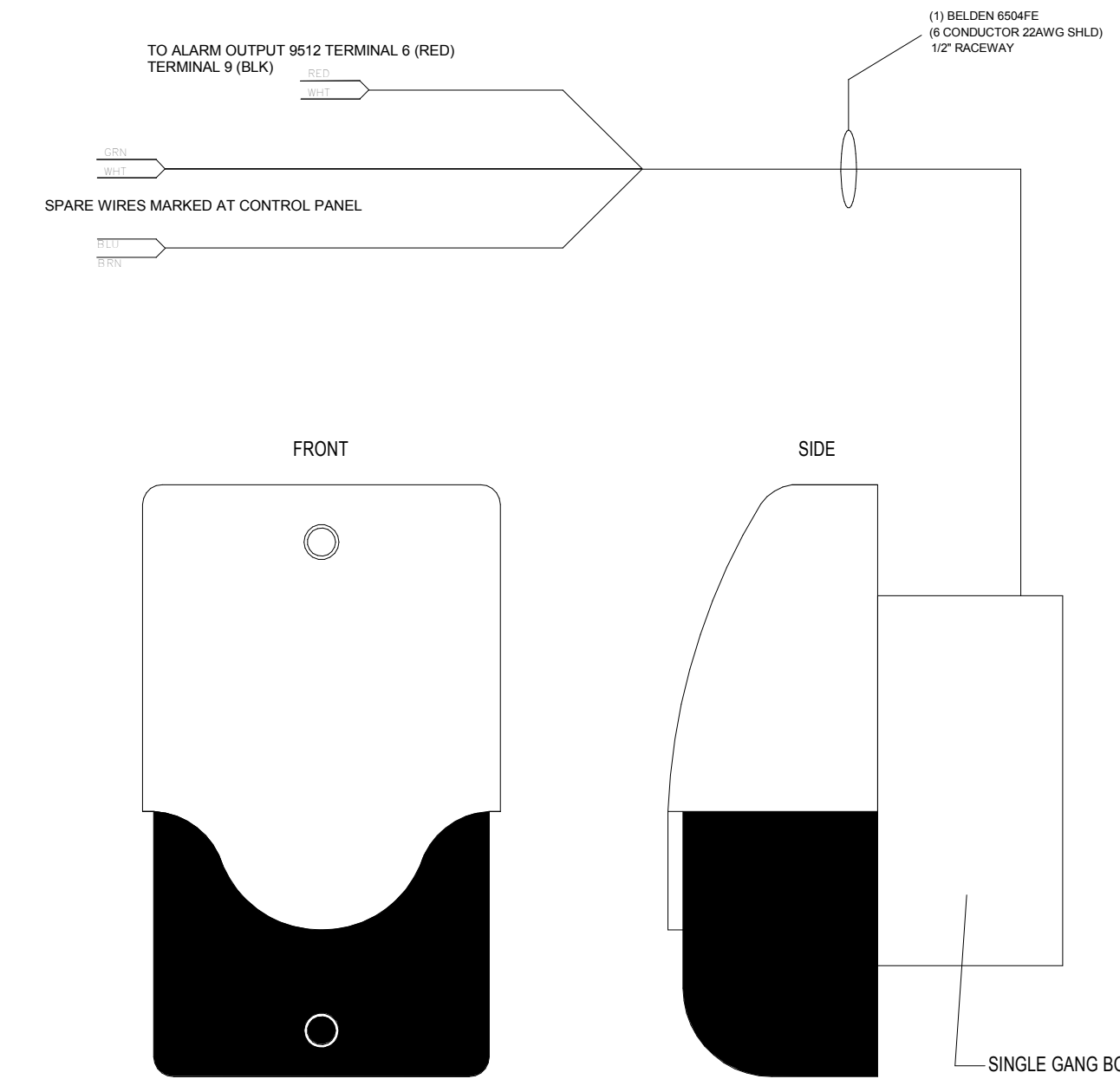
- GENERAL NOTES:
1. MOUNTING HEIGHT TO BE 48" UNLESS OTHERWISE NOTED.
 2. SET ADDRESS SPECIFIED IN DEVICE SCHEDULE



7 BOSCH ALARM KEYPAD SURFACE MOUNT
SCALE: NTS

QTY	MATERIALS	MAKE	MODEL / PART#
(1)	DOBERMAN SIREN-STROBE		

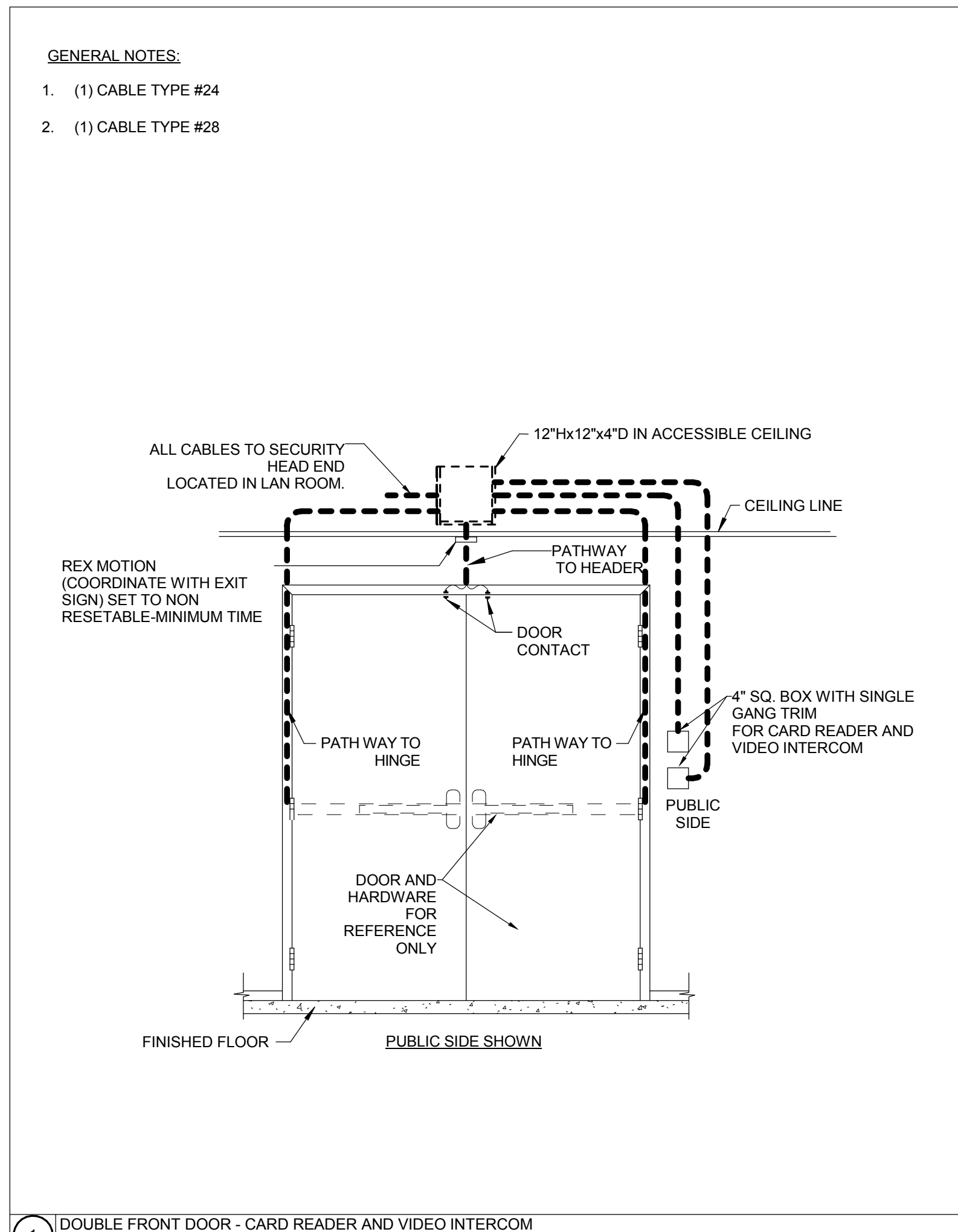
- GENERAL NOTES:
1. DEVICE TO BE MOUNTED AT LOCATION DESIGNATED ON WALL 6" TO 10" BELOW CEILING.
 2. STROBE AND SIREN WIRED TO OPERATE SIMULTANEOUSLY.
 3. MOUNTED TO SINGLE GANG BOX.



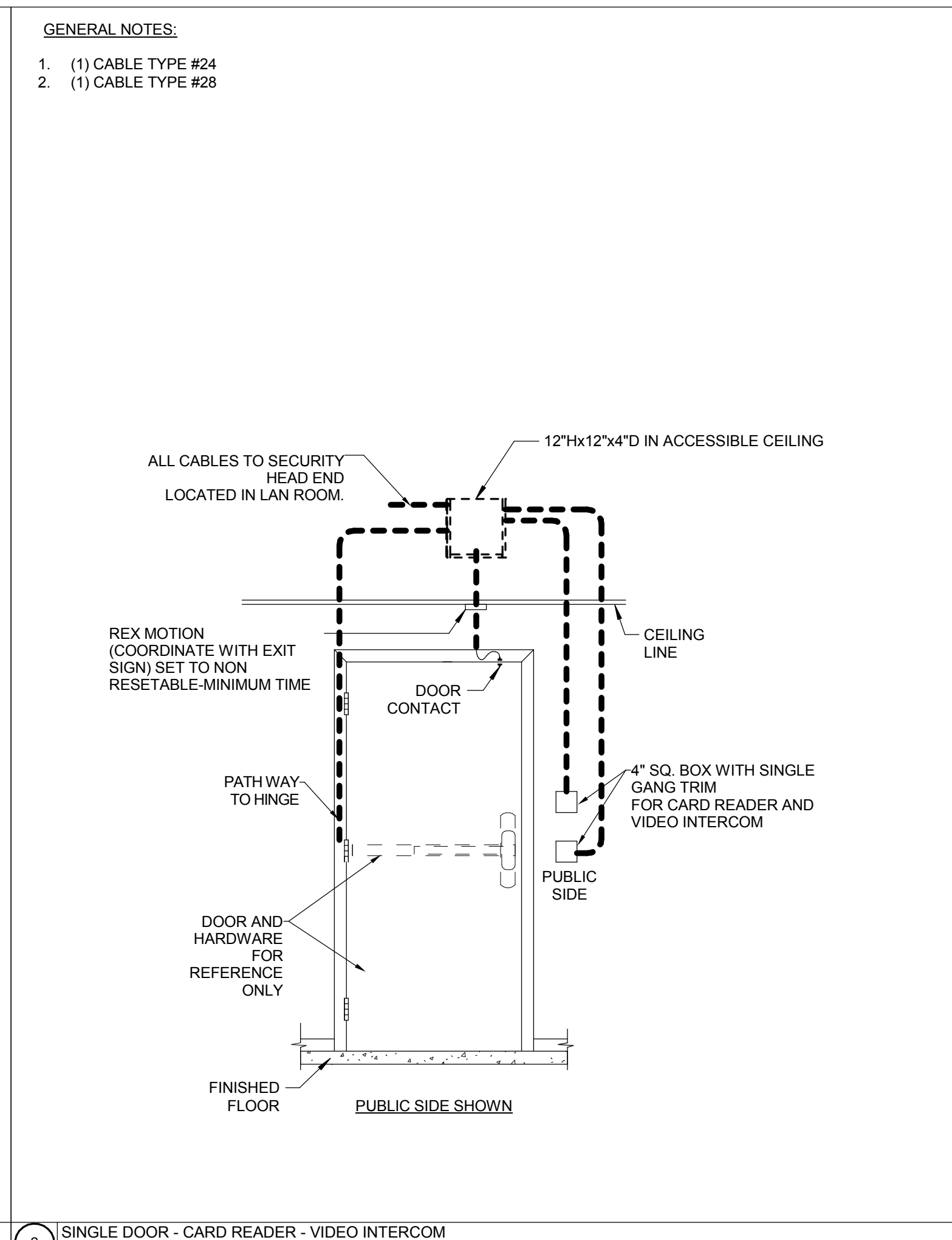
8 DOBERMAN SIREN-STROBE
SCALE: NONE

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1	Issued for Permit & Construction	23 DEC 24

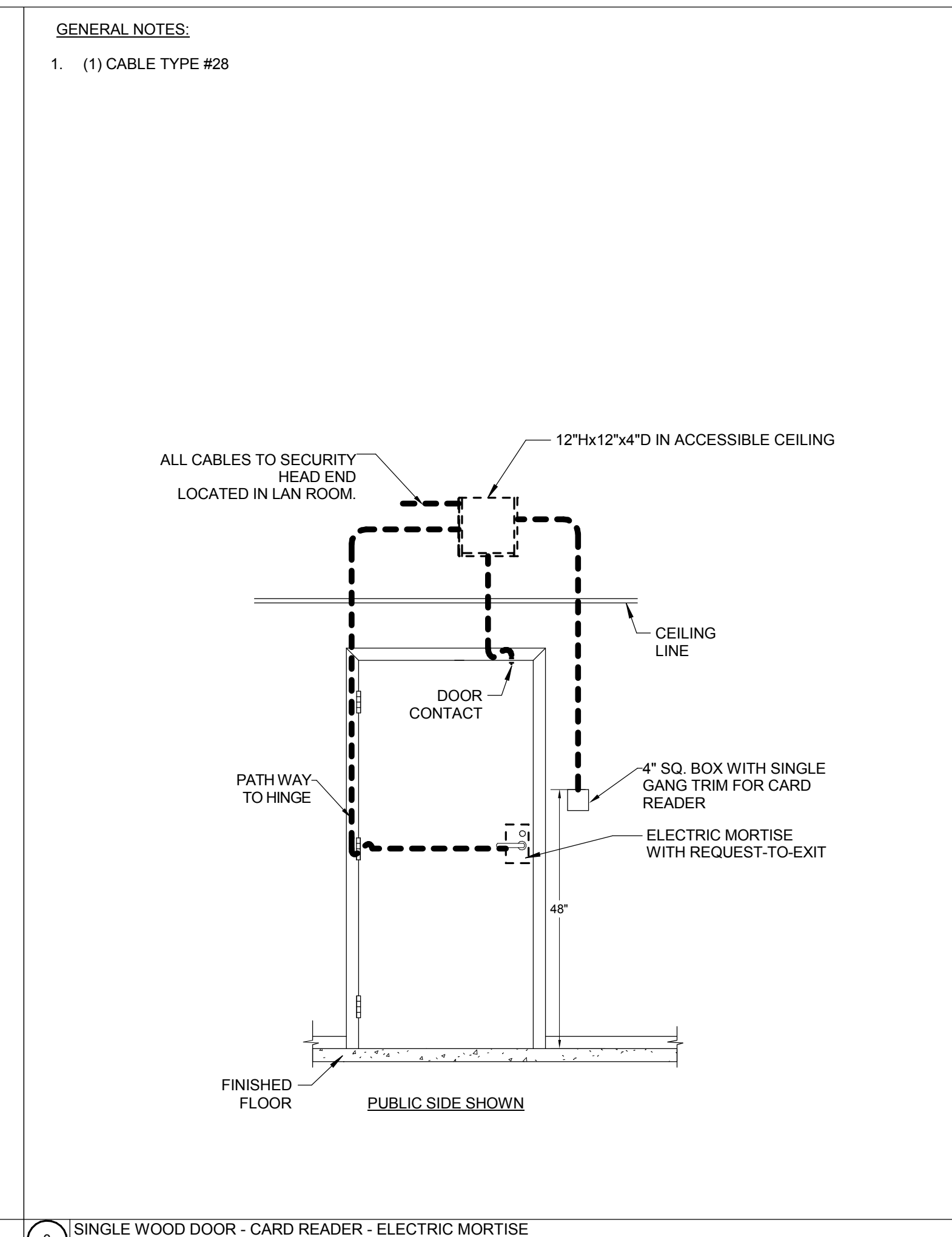
General Notes:



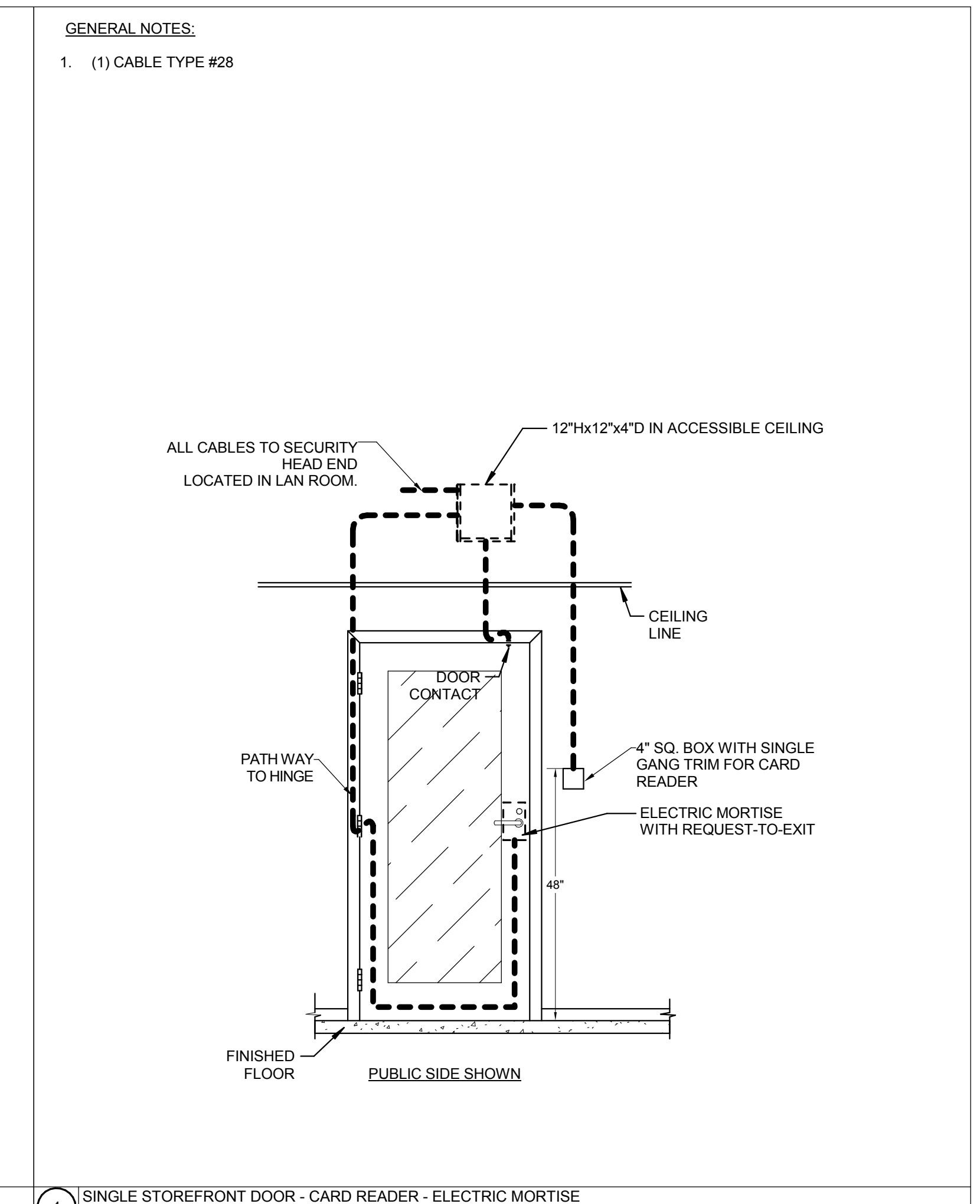
1 DOUBLE FRONT DOOR - CARD READER AND VIDEO INTERCOM
INTS



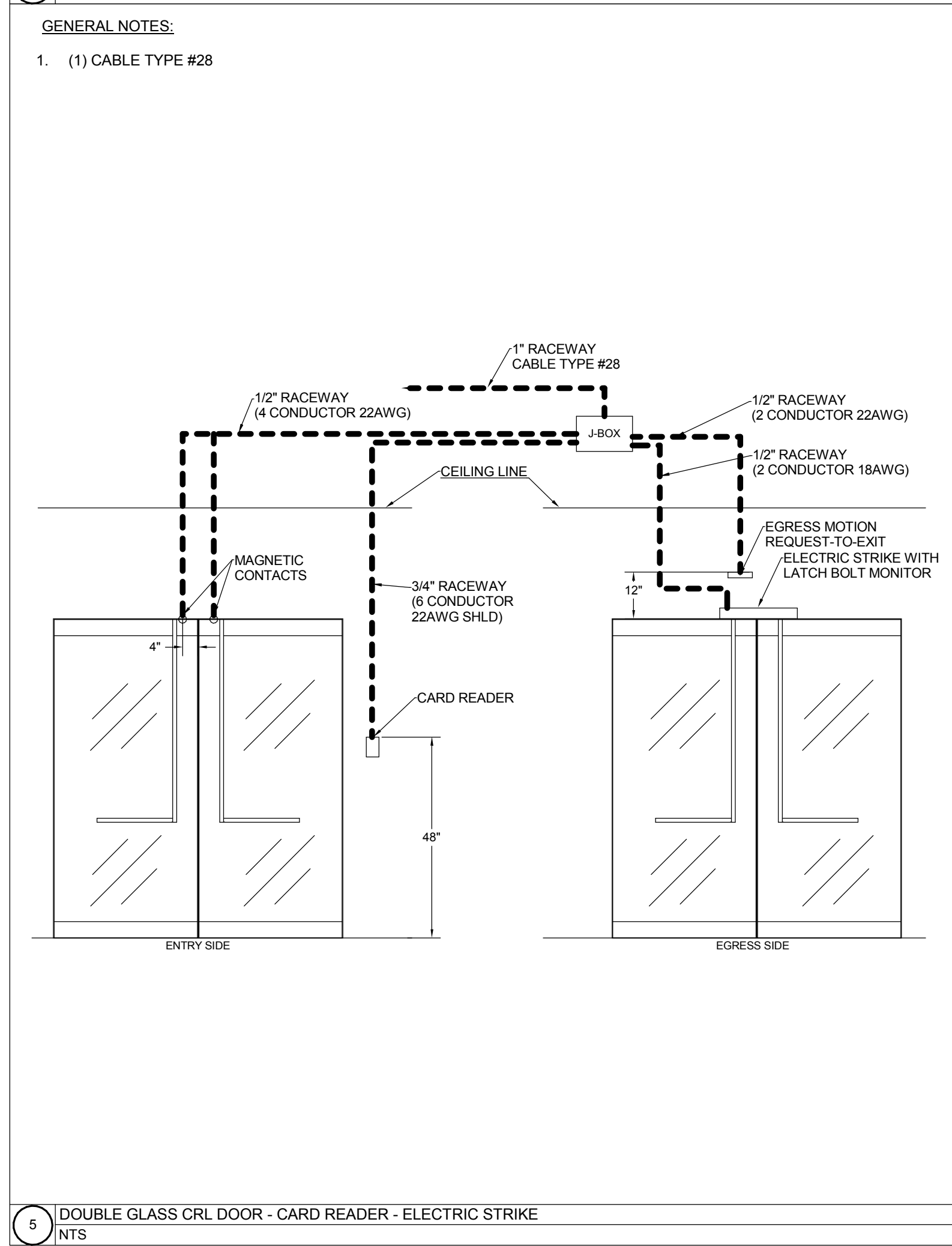
2 SINGLE DOOR - CARD READER - VIDEO INTERCOM
INTS



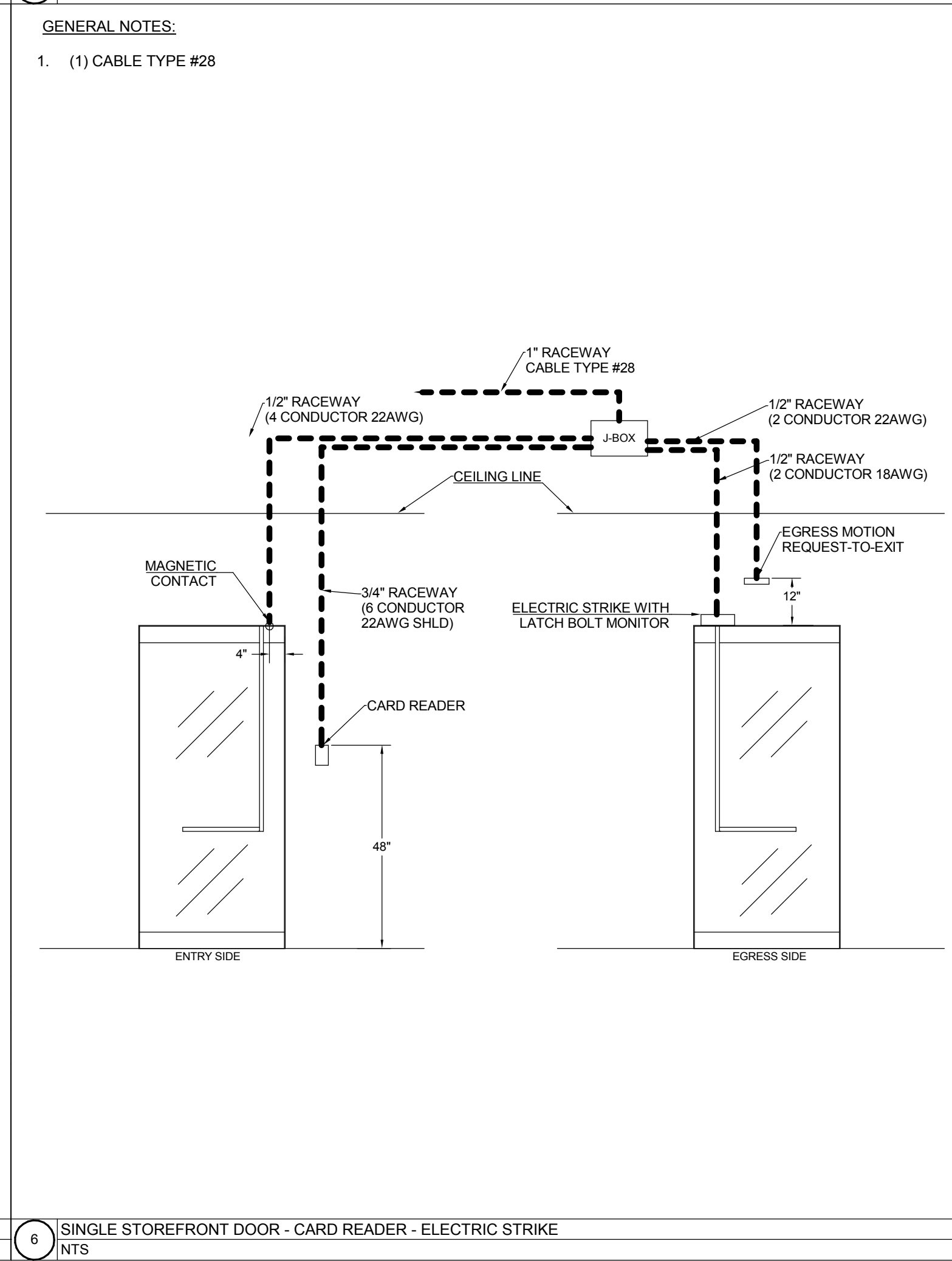
3 SINGLE WOOD DOOR - CARD READER - ELECTRIC MORTISE
INTS



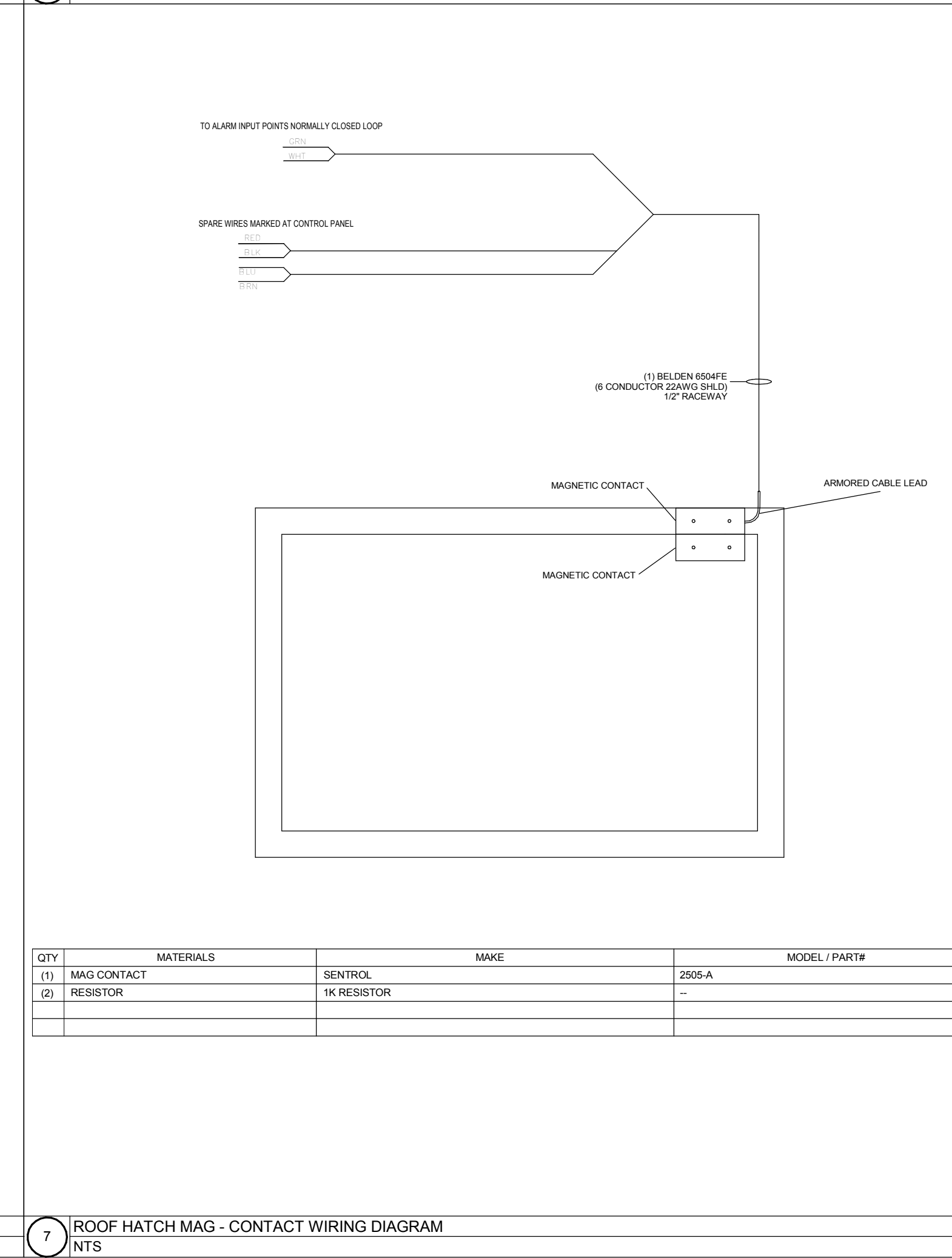
4 SINGLE STOREFRONT DOOR - CARD READER - ELECTRIC MORTISE
INTS



5 DOUBLE GLASS CRL DOOR - CARD READER - ELECTRIC STRIKE
INTS



6 SINGLE STOREFRONT DOOR - CARD READER - ELECTRIC STRIKE
INTS



7 ROOF HATCH MAG - CONTACT WIRING DIAGRAM
INTS



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Drawing Sheet Title:
**SECURITY - DEVICE
DETAILS**

Drawing Sheet Number:
SE-303

Owner's Branch No.:
134