

VAUGHN PUBLIC LIBRARY

PROJECT
Building Renovation
Ashland, Wisconsin

VAUGHN PUBLIC LIBRARY

502 W. MAIN STREET
ASHLAND, WI 54806

VAUGHN PUBLIC LIBRARY
502 W. MAIN STREET
ASHLAND, WI 54806

PROJECT NUMBER 233682.00

PROJECT

SEAL

CONSULTANTS



CIVIL

COOPER ENGINEERING

2600 COLLEGE DRIVE
RICE LAKE, WI 54868
PH: 715-234-7008

- C101 EXISTING SITE
- C102 DEMO PLAN
- C103 PROPOSED SITE
- C104 GRADING PLAN
- C105 ACCESS AND TRAFFIC CONTROL
- C106 DETAILS
- C107 DETAILS
- C108 DETAILS

STRUCTURAL

SPIRE ENGINEERING

305 N. PLANKINTON AVE.
SUITE 101
MILWAUKEE, WISCONSIN, 53203
PH: 414-278-9200

- S000 STRUCTURAL NOTES & SCHEDULES
- S001 STRUCTURAL NOTES & SCHEDULES
- S101 FRAMING PLANS
- S102 FRAMING PLANS
- S103 FRAMING PLANS
- S201 STRUCTURAL DETAILS

ARCHITECTURAL

ENGBERG ANDERSON ARCHITECTS

320 E. BUFFALO ST.
SUITE 500
MILWAUKEE, WISCONSIN 53202
PH: 414-944-9000

- A000 TITLE SHEET
- A001 CODE CONFORMANCE PLANS & DATA
- A002 ARCHITECTURAL SITE PLAN
- D100 BASEMENT DEMO PLAN
- D101 1ST-3RD FLOOR DEMO PLANS
- D201 1ST-3RD FLOOR DEMO REFLECTED CEILING PLANS
- D400 DEMO BUILDING ELEVATIONS
- A100 BASEMENT & ROOF PLANS
- A101 1ST-3RD FLOOR PLANS
- A200 REFLECTED CEILING PLAN NOTES AND SYMBOLS
- A201 1ST-3RD FLOOR REFLECTED CEILING PLANS
- A300 ENLARGED STAIR PLANS, SECTIONS & DETAILS
- A301 ENLARGED RESTROOM PLANS & ELEVATIONS
- A302 ENLARGED PLANS
- A400 BUILDING ELEVATIONS
- A401 BUILDING SECTIONS
- A500 ENTRY PLANS & ELEVATIONS
- A501 ENTRY DETAILS
- A600 PARTITION TYPES
- A601 DOOR SCHEDULE & TYPES
- A602 WINDOW TYPES & DETAILS
- A603 DOOR & WINDOW DETAILS
- A700 FINISH & MATERIALS SCHEDULES
- A701 1ST-3RD FLOOR FINISH PLANS
- A702 FURNITURE PLANS FOR REFERENCE ONLY
- A710 SIGNAGE SCHEDULE & BASEMENT SIGNAGE & EQUIPMENT PLAN
- A711 1ST-3RD FLOOR SIGNAGE & EQUIPMENT PLANS
- A800 INTERIOR ELEVATIONS
- A801 INTERIOR ELEVATIONS
- A802 INTERIOR ELEVATIONS
- A900 DETAILS
- A901 MILLWORK DETAILS
- A902 MILLWORK DETAILS
- A903 MILLWORK DETAILS

MECHANICAL

SALAS O'BRIEN ENGINEERING

1111 DEMING WAY
MADISON, WISCONSIN, 53717
PH: 608-848-9556

- M001 MECHANICAL NOTES, LEGENDS & ABBREVIATIONS
- MD100 BASEMENT MECHANICAL DEMOLITION PLAN
- MD101 FIRST FLOOR MECHANICAL DEMOLITION PLAN
- MD102 SECOND FLOOR MECHANICAL DEMOLITION PLAN
- MD103 THIRD FLOOR MECHANICAL DEMOLITION PLAN
- M100 BASEMENT MECHANICAL PLAN
- M101 FIRST FLOOR MECHANICAL PLAN
- M102 SECOND FLOOR MECHANICAL PLAN
- M103 THIRD FLOOR MECHANICAL PLAN
- M104 ROOF MECHANICAL PLAN
- M501 MECHANICAL DETAILS
- M502 MECHANICAL DETAILS
- M503 MECHANICAL DETAILS
- M504 MECHANICAL DETAILS
- M601 MECHANICAL SCHEDULES
- M602 MECHANICAL SCHEDULES
- M701 MECHANICAL CONTROL DIAGRAM AND INPUT/OUTPUT SUMMARY
- M801 KITCHEN HOOD
- M802 KITCHEN HOOD
- M803 KITCHEN HOOD
- M804 KITCHEN HOOD
- M805 KITCHEN HOOD
- M806 KITCHEN HOOD
- M807 KITCHEN HOOD
- M808 KITCHEN HOOD

ELECTRICAL

SALAS O'BRIEN ENGINEERING

- E001 ELECTRICAL NOTES, LEGENDS & ABBREVIATIONS
- ED110 BASEMENT ELECTRICAL DEMOLITION PLANS
- ED111 FIRST FLOOR ELECTRICAL DEMOLITION PLANS
- ED112 SECOND FLOOR ELECTRICAL DEMOLITION PLANS
- ED113 THIRD FLOOR ELECTRICAL DEMOLITION PLANS
- E110 BASEMENT ELECTRICAL PLANS
- E111 FIRST FLOOR ELECTRICAL PLANS
- E112 SECOND FLOOR ELECTRICAL PLANS
- E113 THIRD FLOOR ELECTRICAL PLANS
- E114 ROOF ELECTRICAL PLANS
- E121 FIRST FLOOR POWER AND SYSTEMS PLANS
- E122 SECOND FLOOR POWER AND SYSTEMS PLANS
- E401 THIRD FLOOR LARGE MEETING ROOM ENLARGED LIGHTING PLAN
- E501 ELECTRICAL DETAILS
- E601 ELECTRICAL SCHEDULES
- E602 ELECTRICAL SCHEDULES

PLUMBING AND FP

SALAS O'BRIEN ENGINEERING

- P001 PLUMBING COVER SHEET
- PD101 PLUMBING DEMO PLANS - BASEMENT
- PD102 PLUMBING DEMO PLANS - 1ST & 2ND FLOORS
- PD103 PLUMBING DEMO PLAN - 3RD FLOOR
- P101 PLUMBING PLANS - BASEMENT
- P102 PLUMBING PLANS - 1ST & 2ND FLOORS
- P103 PLUMBING PLAN - 3RD FLOOR
- P201 PLUMBING ISOMETRIC - SANITARY
- P202 PLUMBING ISOMETRIC - DOMESTIC WATER
- P301 PLUMBING DETAILS
- FP001 FP COVER SHEET & RISER DIAGRAM
- FP101 FP PLANS - BASEMENT & FIRST FLOOR
- FP102 FP PLANS - SECOND & THIRD FLOOR
- FP201 FIRE PROTECTION DETAILS

ISSUED FOR:
PERMIT AND BID 11-26-2024

REVISION FOR: NO. DESCRIPTION DATE

DRAWN BY JM

CHECKED BY AR

TITLE SHEET

A000

CONSULTANT:



2600 COLLEGE DRIVE, P.O. BOX 230
RICE LAKE, WISCONSIN 54868
TELEPHONE (715) 234-7008
FAX (715) 234-1025

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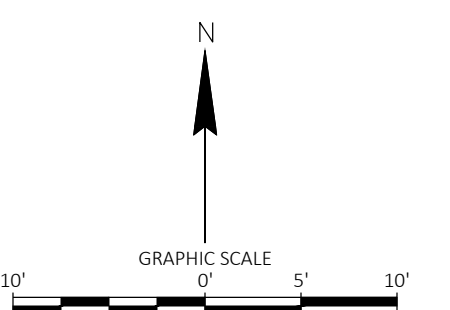
REVISION FOR:

NO. DESCRIPTION DATE

DRAWN BY NJG

CHECKED BY SJB

EXISTING SITE



C101

CONVENTIONAL SYMBOLS		
PLAN	PROFILE	
CORPORATE LIMITS	GRADE LINE	
PROPERTY LINE	ORIGINAL GROUND	
LOT LINE	MARSH OR ROCK PROFILE	
LIMITED HIGHWAY EASEMENT	(TO BE HONORED AS SHOWN)	
EXISTING RIGHT OF WAY	SPECIAL DITCH	
PROPOSED OR NEW R/W LINE	GRADE ELEVATION	
SLOPE INTERCEPT	CULVERT (Profile View)	
REFERENCE LINE	UTILITIES	
EXISTING CULVERT	ELECTRIC	
PROPOSED CULVERT	FIBER OPTIC	
(Box or Pipe)	GAS	
COMBUSTIBLE FLUIDS	SANITARY SEWER	
	STORM SEWER	
MARSH AREA	TELEPHONE	
	WATER	
WOODED OR SHRUB AREA	UTILITY PEDISTAL	
	POWER POLE	
	TELEPHONE POLE	



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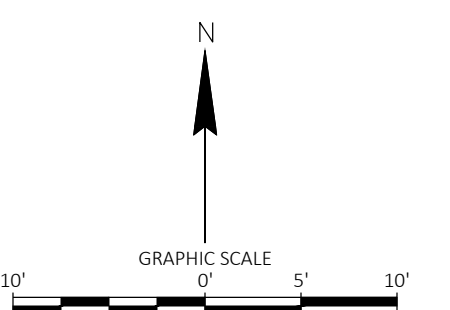
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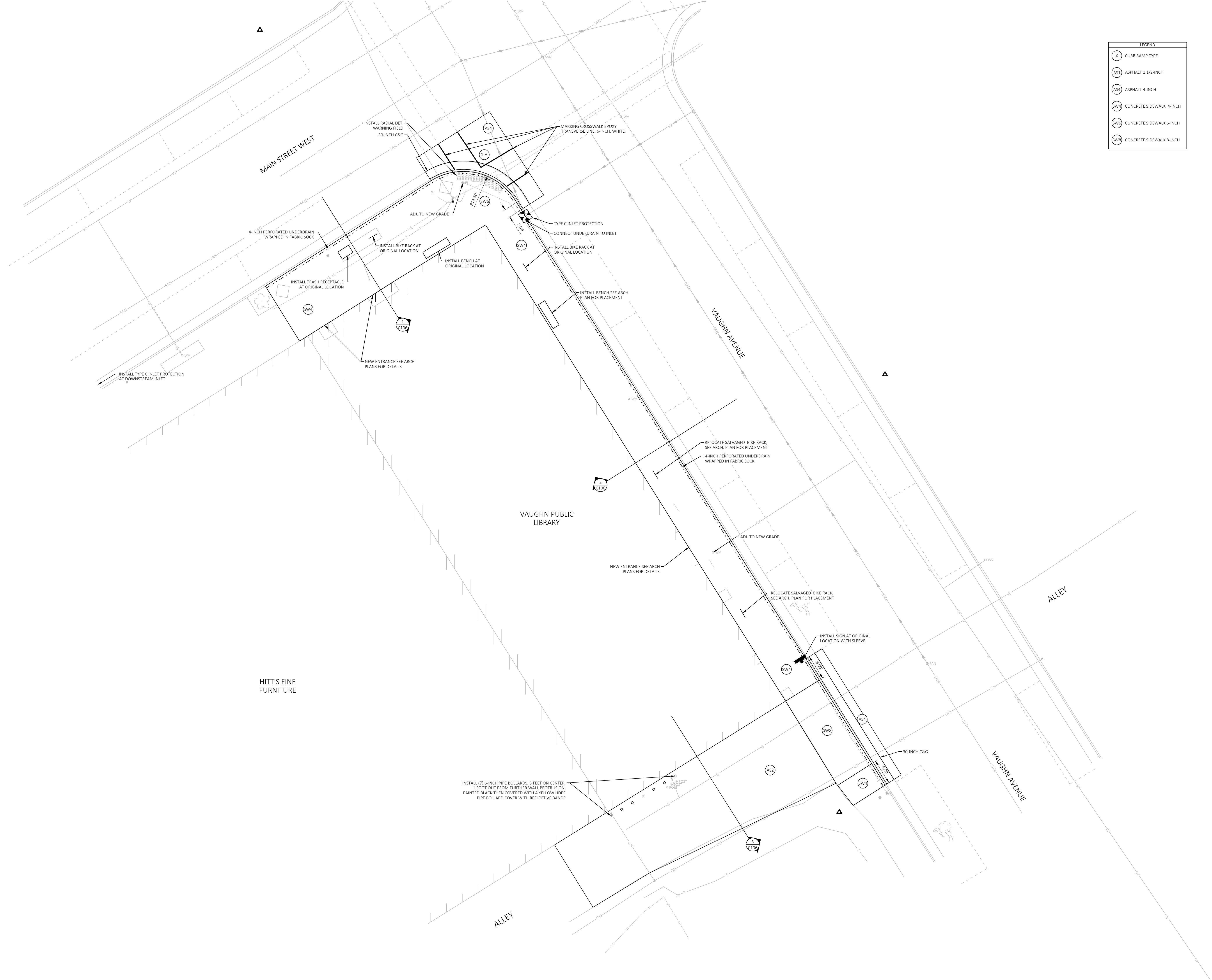
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PROPOSED SITE



C103

LEGEND	
(X)	CURB RAMP TYPE
(AS1)	ASPHALT 1 1/2-INCH
(AS4)	ASPHALT 4-INCH
(SW4)	CONCRETE SIDEWALK 4-INCH
(SW6)	CONCRETE SIDEWALK 6-INCH
(SW8)	CONCRETE SIDEWALK 8-INCH



HITT'S FINE FURNITURE

VAUGHN PUBLIC LIBRARY

INSTALL (7) 6-INCH PIPE BOLLARDS, 3 FEET ON CENTER, 1 FOOT OUT FROM FURTHER WALL PROTRUSION, PAINTED BLACK THEN COVERED WITH A YELLOW HOPE PIPE BOLLARD COVER WITH REFLECTIVE BANDS

INSTALL RADIAL DET. WARNING FIELD 30-INCH C&G

MARKING CROSSWALK EPOXY TRANSVERSE LINE, 6-INCH, WHITE

4-INCH PERFORATED UNDERDRAIN WRAPPED IN FABRIC SOCK

INSTALL BIKE RACK AT ORIGINAL LOCATION

INSTALL BENCH AT ORIGINAL LOCATION

INSTALL TRASH RECEPTACLE AT ORIGINAL LOCATION

NEW ENTRANCE SEE ARCH PLANS FOR DETAILS

INSTALL TYPE C INLET PROTECTION AT DOWNSTREAM INLET

TYPE C INLET PROTECTION

CONNECT UNDERDRAIN TO INLET

INSTALL BIKE RACK AT ORIGINAL LOCATION

INSTALL BENCH SEE ARCH. PLAN FOR PLACEMENT

VAUGHN AVENUE

ADI. TO NEW GRADE

NEW ENTRANCE SEE ARCH PLANS FOR DETAILS

ADI. TO NEW GRADE

4-INCH PERFORATED UNDERDRAIN WRAPPED IN FABRIC SOCK

RELOCATE SALVAGED BIKE RACK, SEE ARCH. PLAN FOR PLACEMENT

RELOCATE SALVAGED BIKE RACK, SEE ARCH. PLAN FOR PLACEMENT

INSTALL SIGN AT ORIGINAL LOCATION WITH SLEEVE

ALLEY

VAUGHN AVENUE

ALLEY

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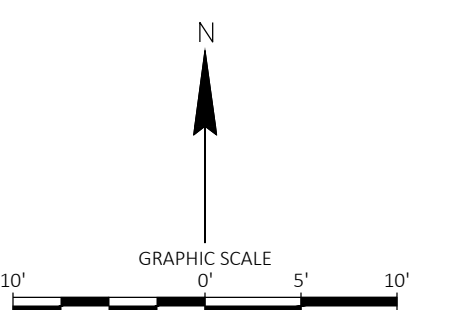
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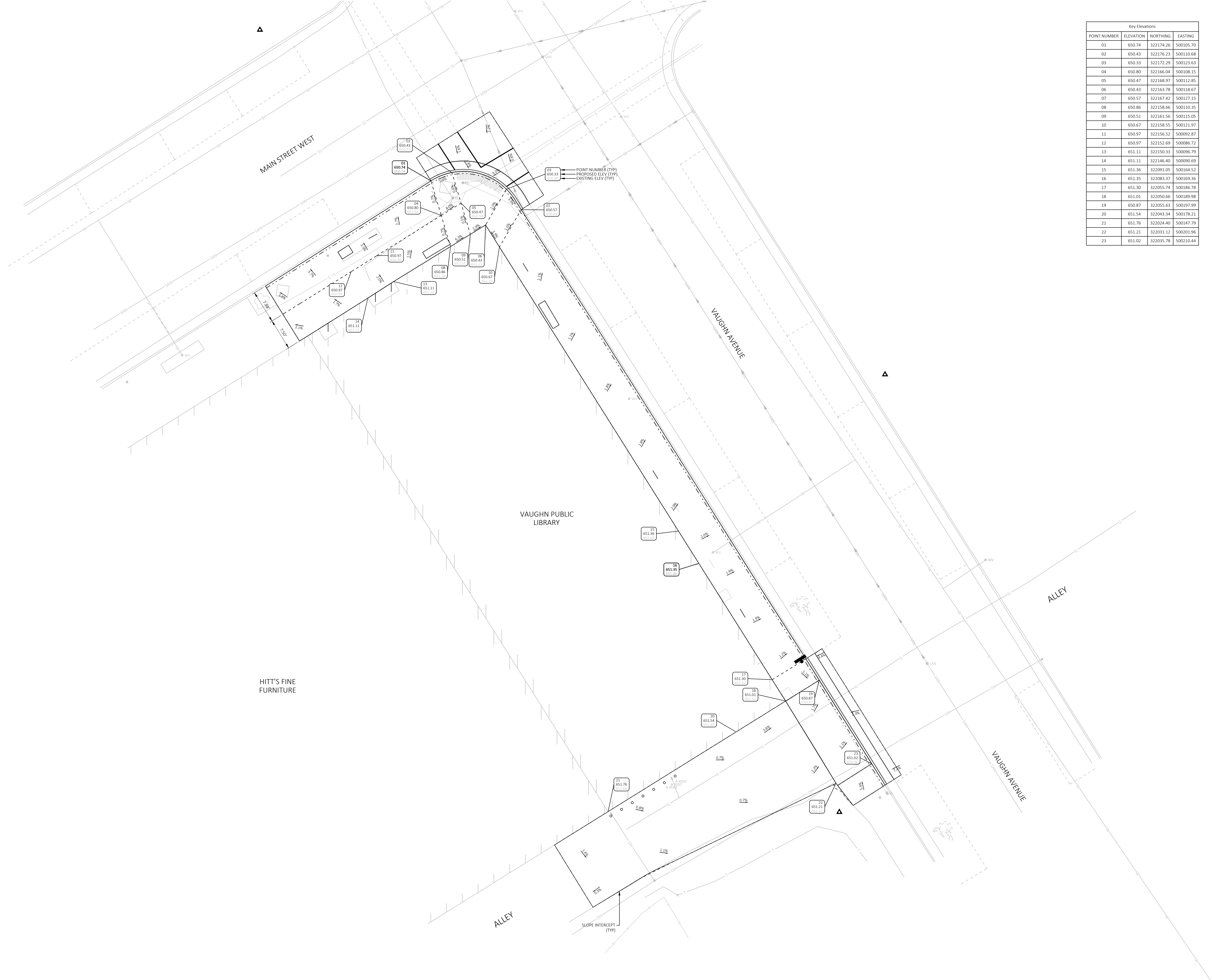
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GRADING PLAN



C104

Key Elevations			
POINT NUMBER	ELEVATION	NORTHING	EASTING
01	650.74	322174.26	500105.70
02	650.43	322176.23	500110.68
03	650.33	322172.29	500123.63
04	650.80	322166.04	500108.15
05	650.47	322168.97	500112.85
06	650.43	322163.78	500118.67
07	650.57	322167.42	500127.15
08	650.86	322158.66	500110.35
09	650.51	322161.56	500115.05
10	650.67	322158.55	500121.97
11	650.97	322156.52	500092.87
12	650.97	322152.69	500086.72
13	651.11	322150.33	500096.79
14	651.11	322146.40	500090.69
15	651.36	322091.05	500164.52
16	651.35	322083.37	500169.36
17	651.30	322055.74	500186.78
18	651.01	322050.66	500189.98
19	650.87	322055.63	500197.99
20	651.54	322043.34	500178.21
21	651.76	322024.40	500147.79
22	651.21	322031.12	500201.96
23	651.02	322035.78	500210.44



VAUGHN PUBLIC LIBRARY

HITT'S FINE FURNITURE

ALLEY

SLOPE INTERCEPT (TYP)

ALLEY

VAUGHN AVENUE

MAIN STREET WEST

VAUGHN AVENUE

POINT NUMBER (TYP)
PROPOSED ELEV (TYP)
EXISTING ELEV (TYP)

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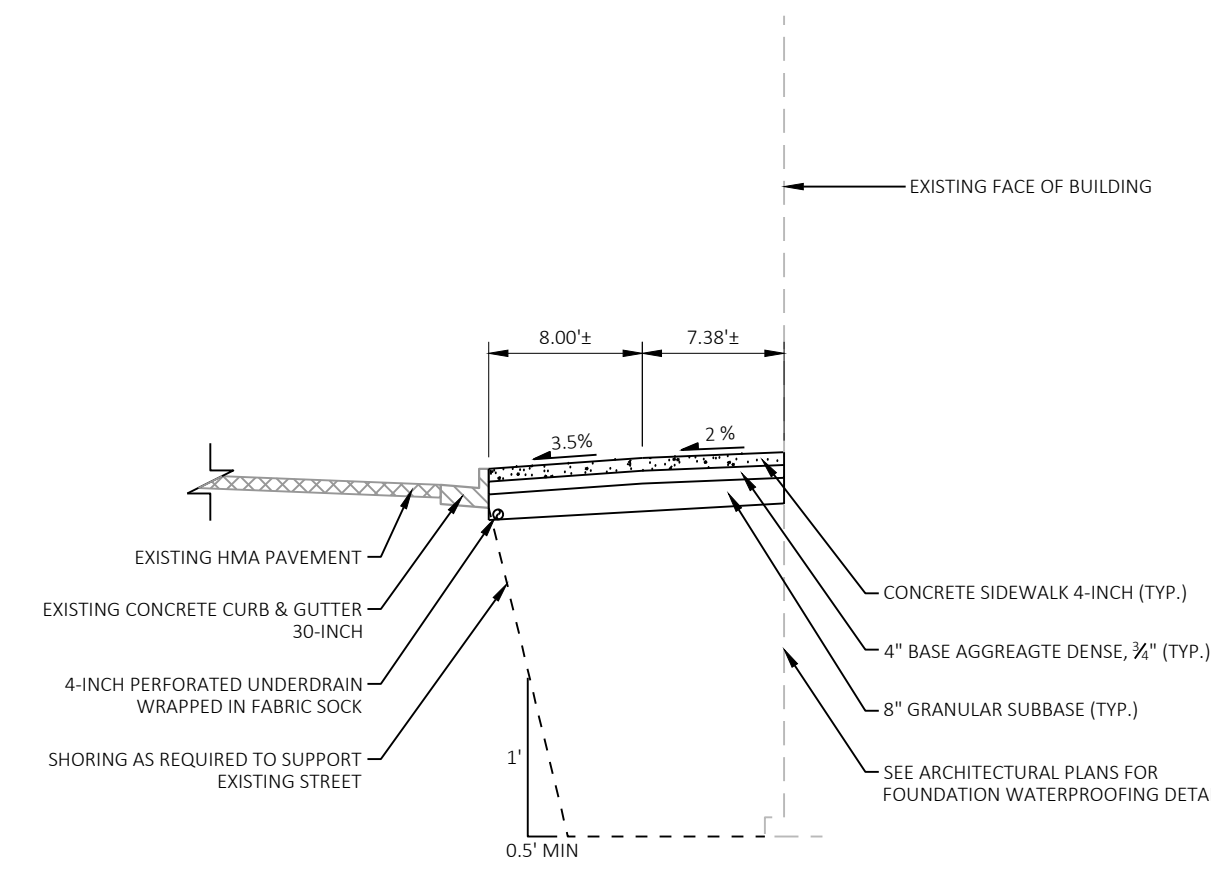
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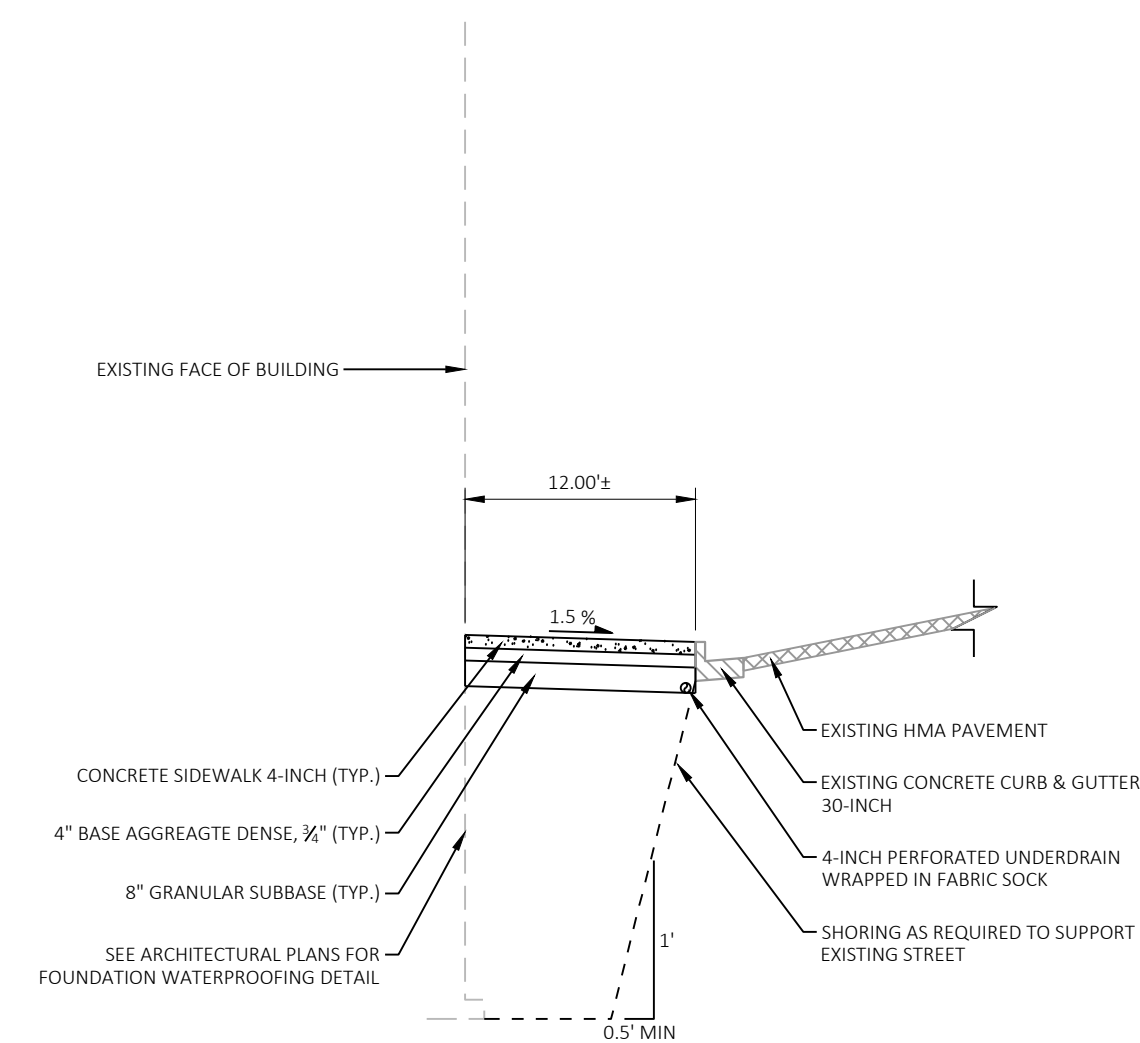
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DETAILS



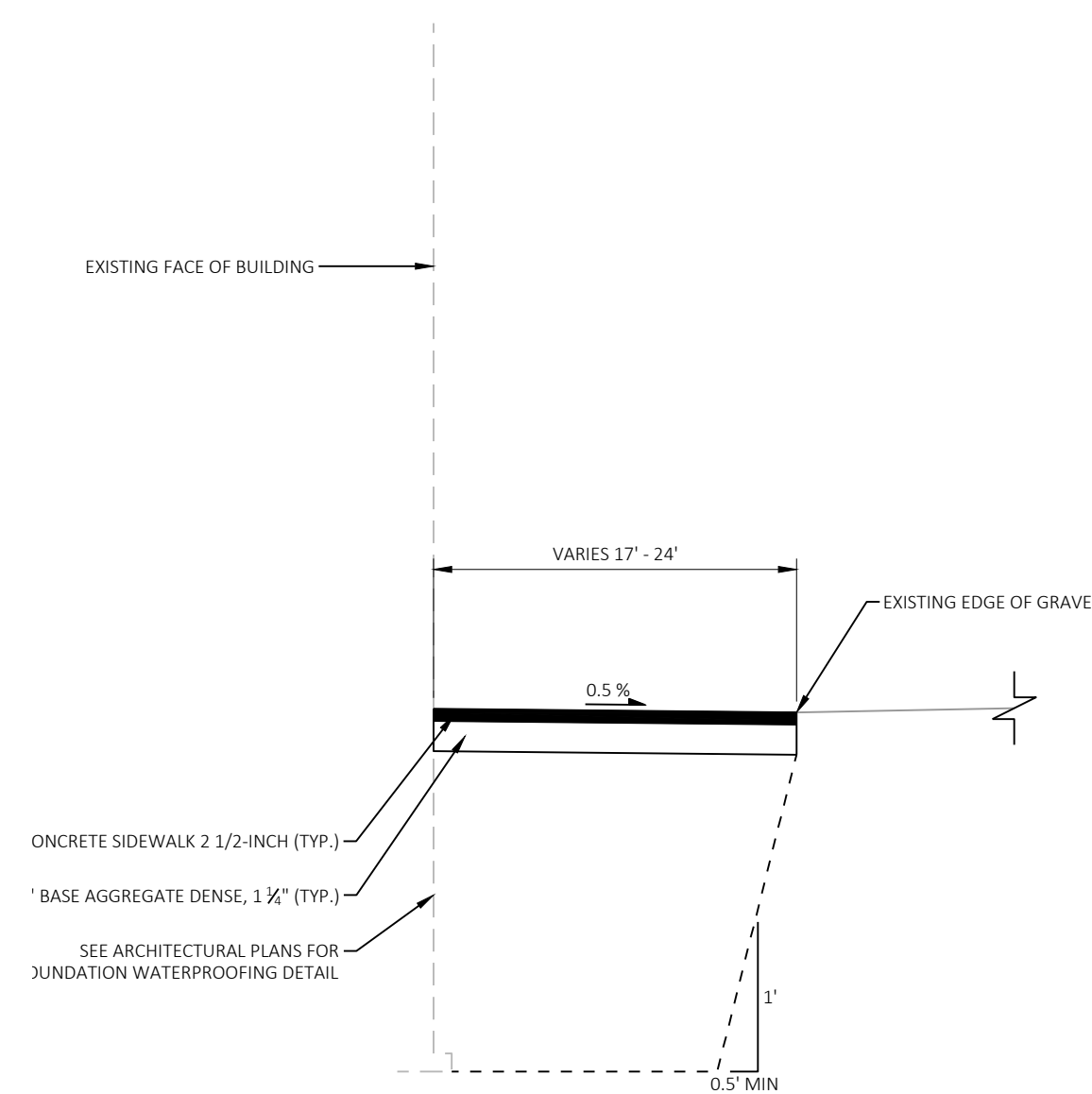
1 SECTION A

SCALE (22 X 34): N.T.S.
SCALE (11 X 17): N.T.S.



2 SECTION B

SCALE (22 X 34): N.T.S.
SCALE (11 X 17): N.T.S.



3 SECTION C

SCALE (22 X 34): N.T.S.
SCALE (11 X 17): N.T.S.

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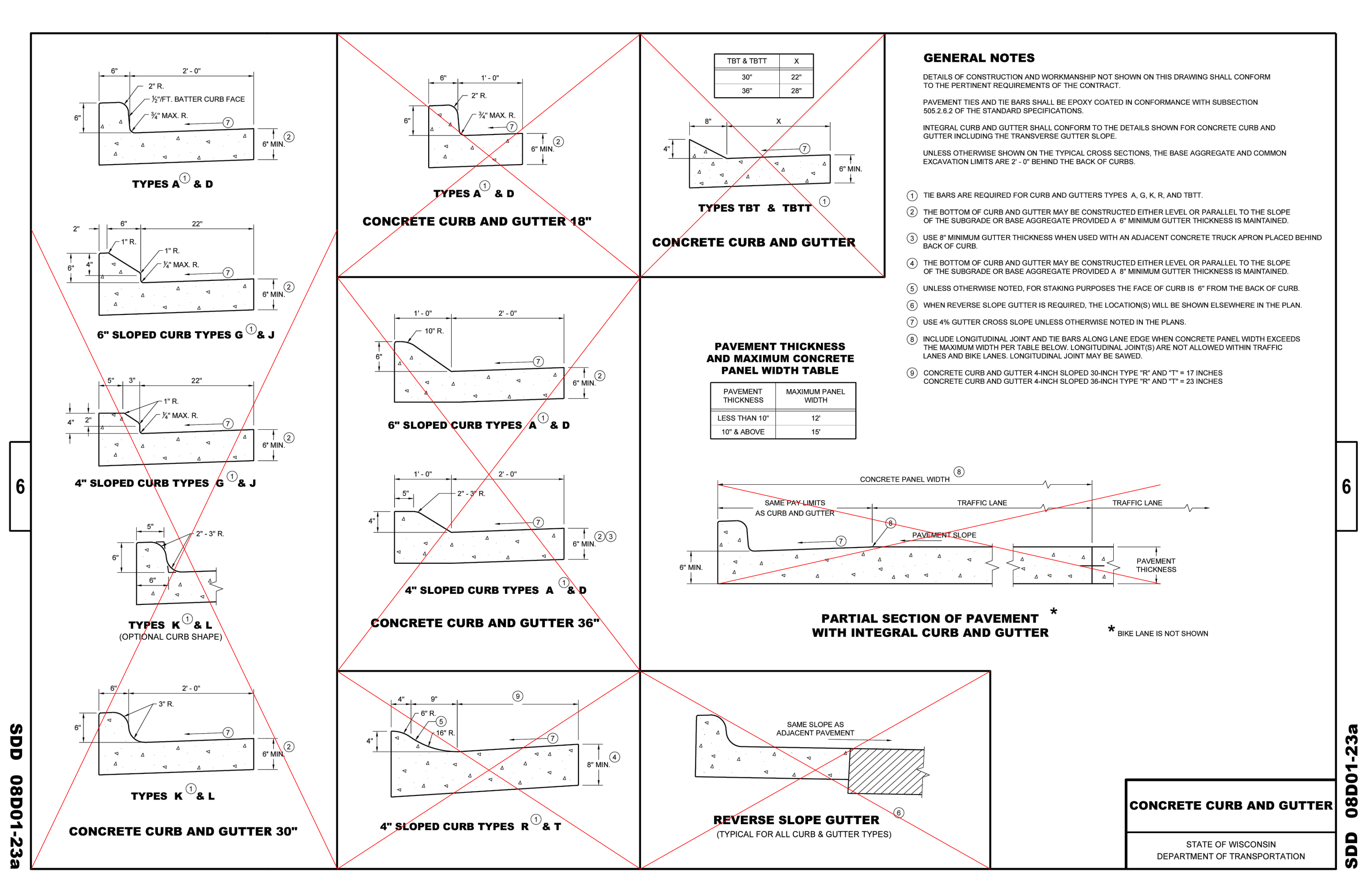
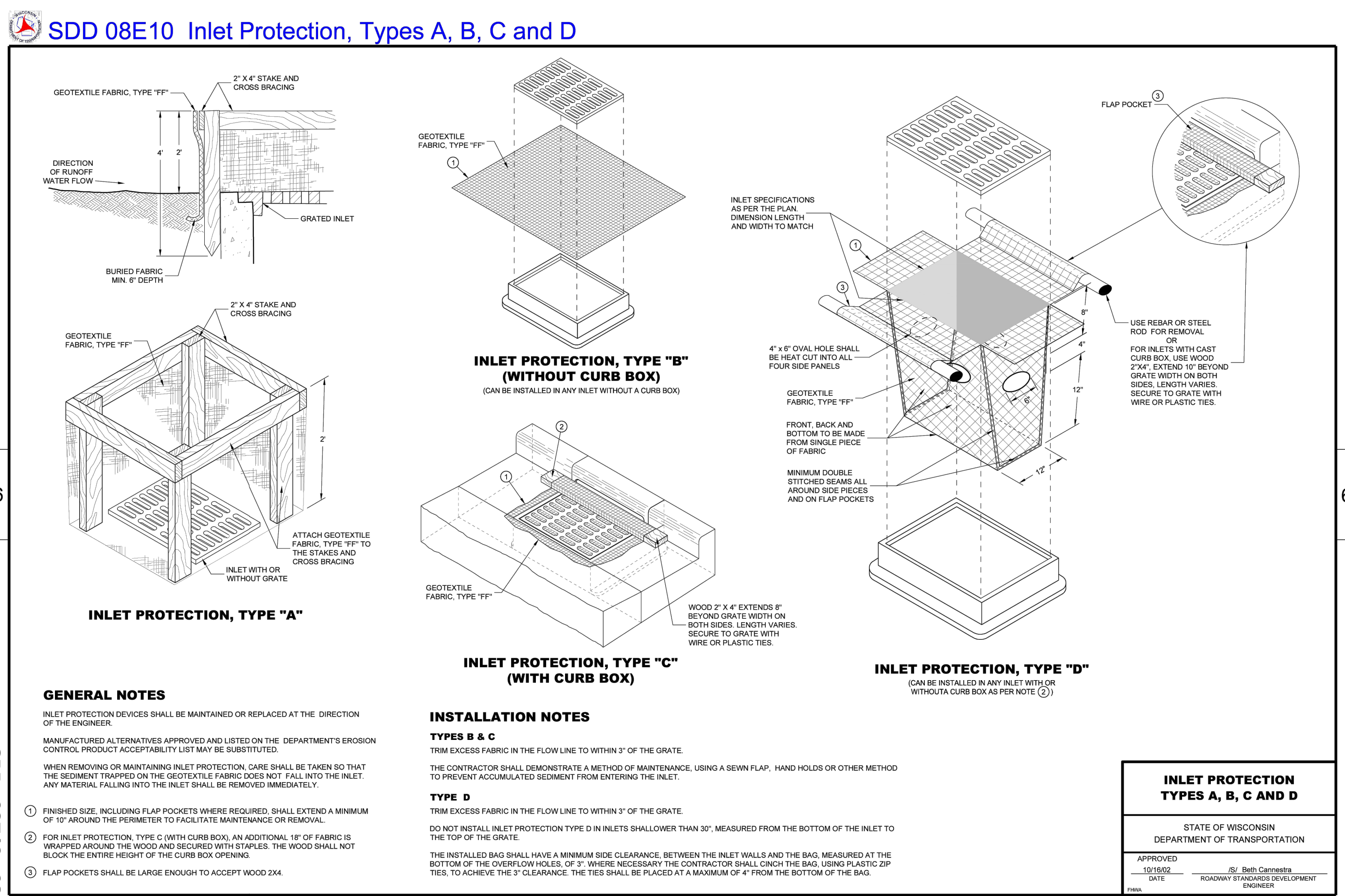
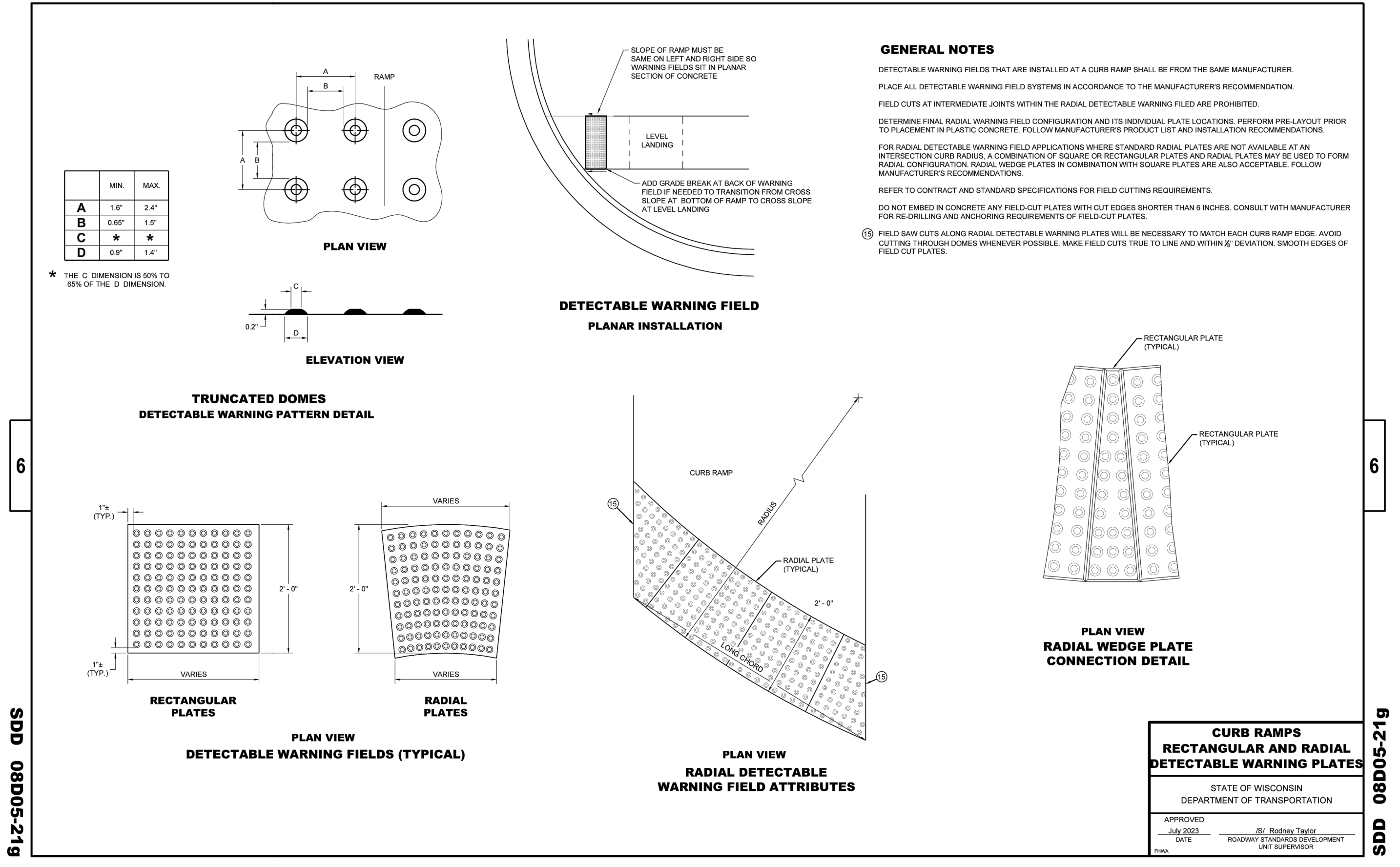
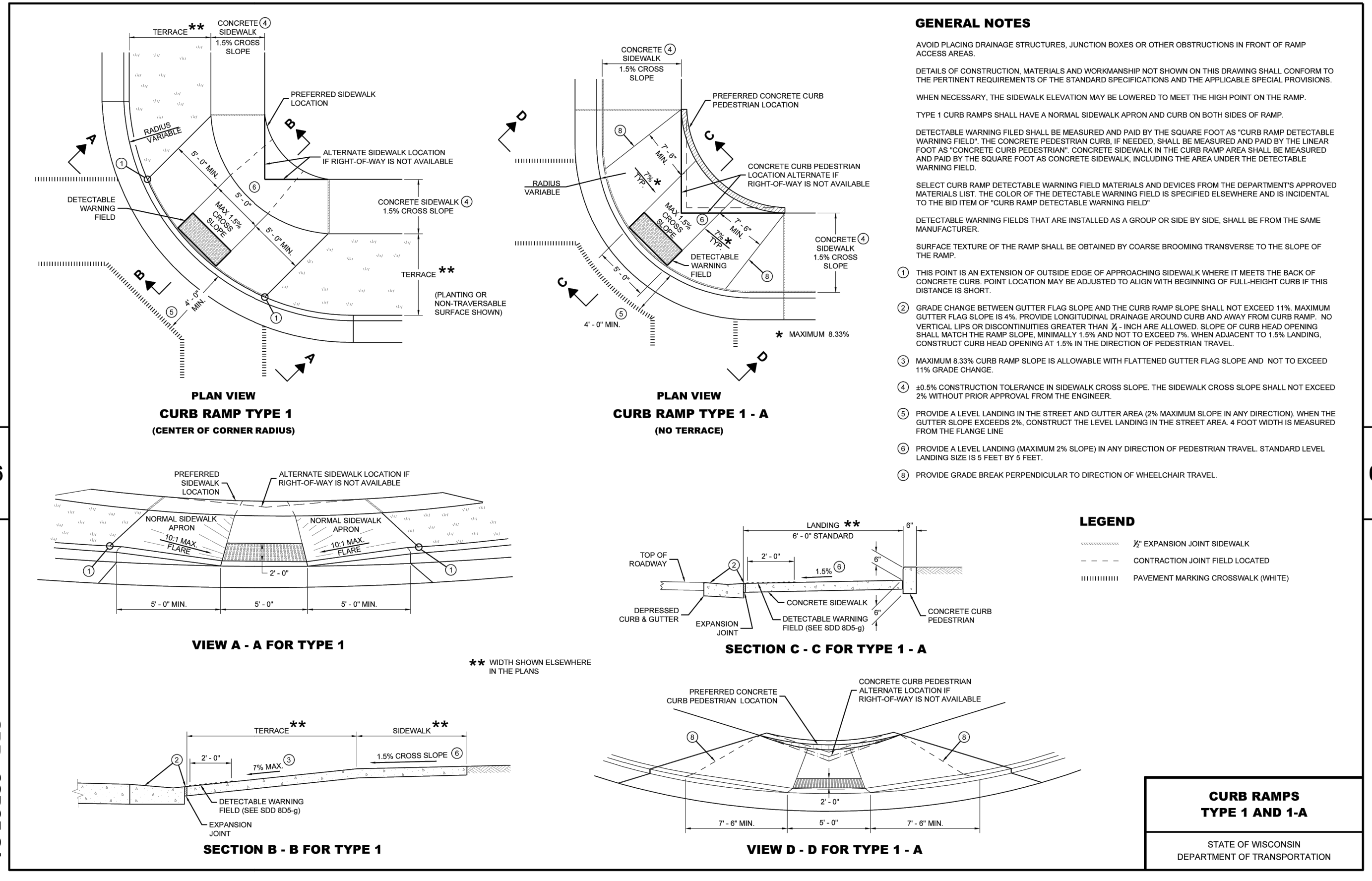
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DETAILS



C107

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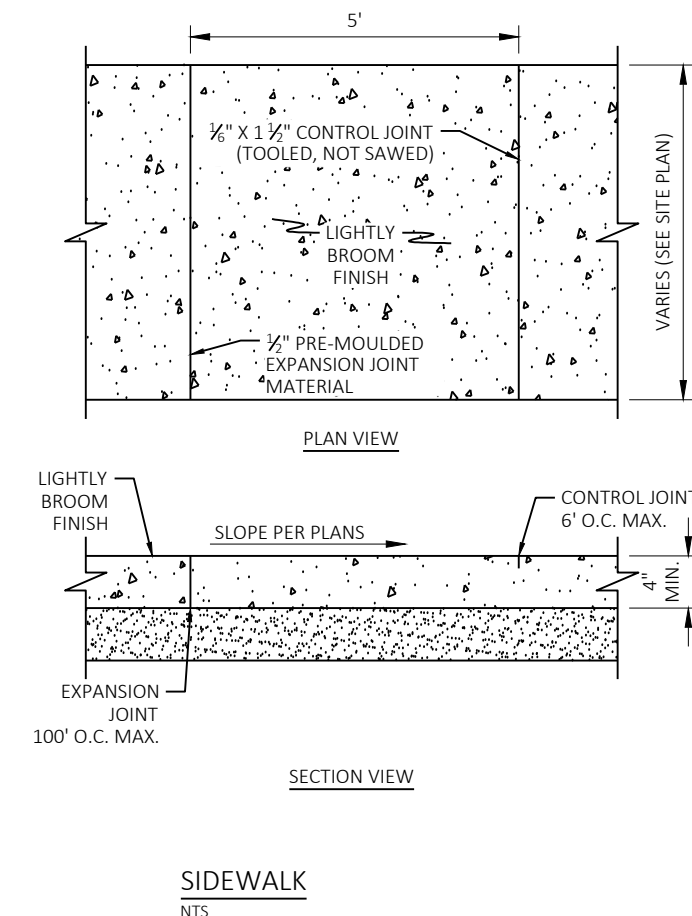
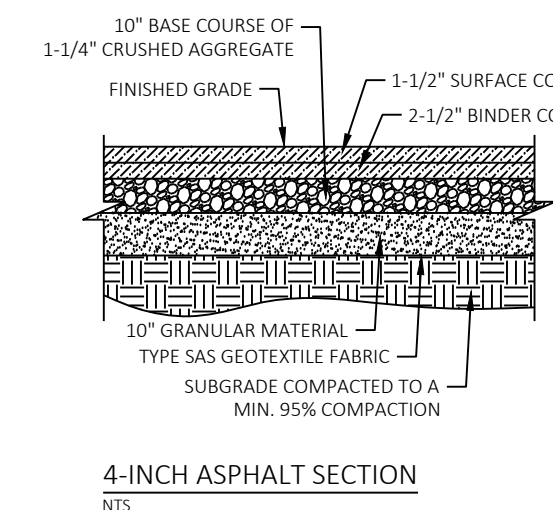
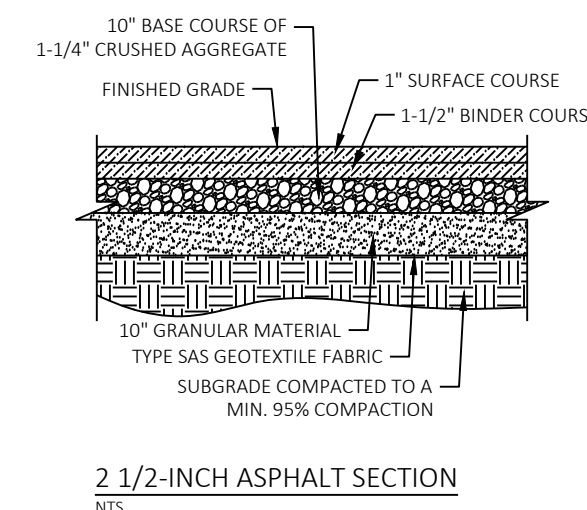
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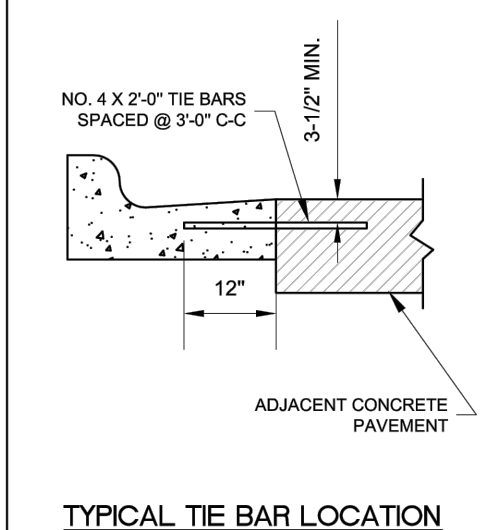
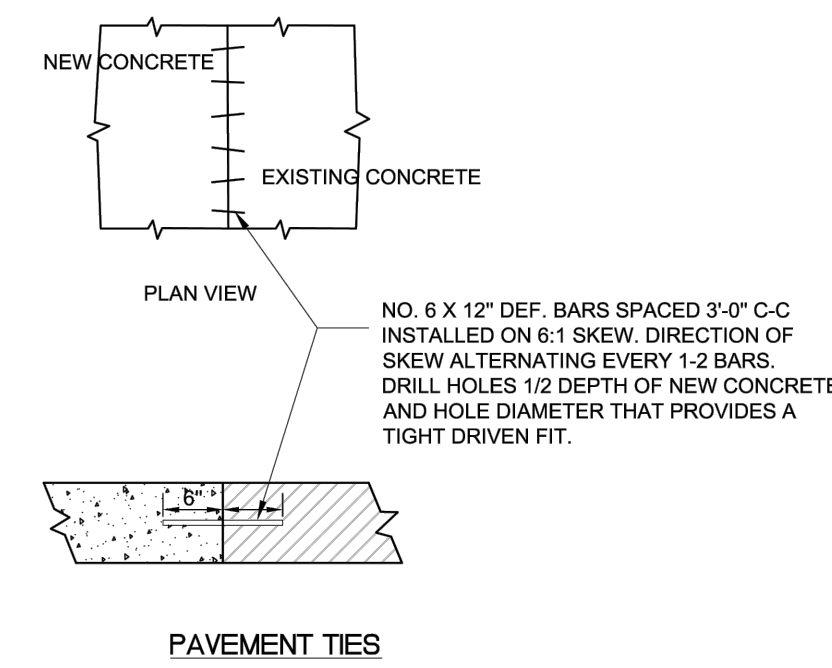
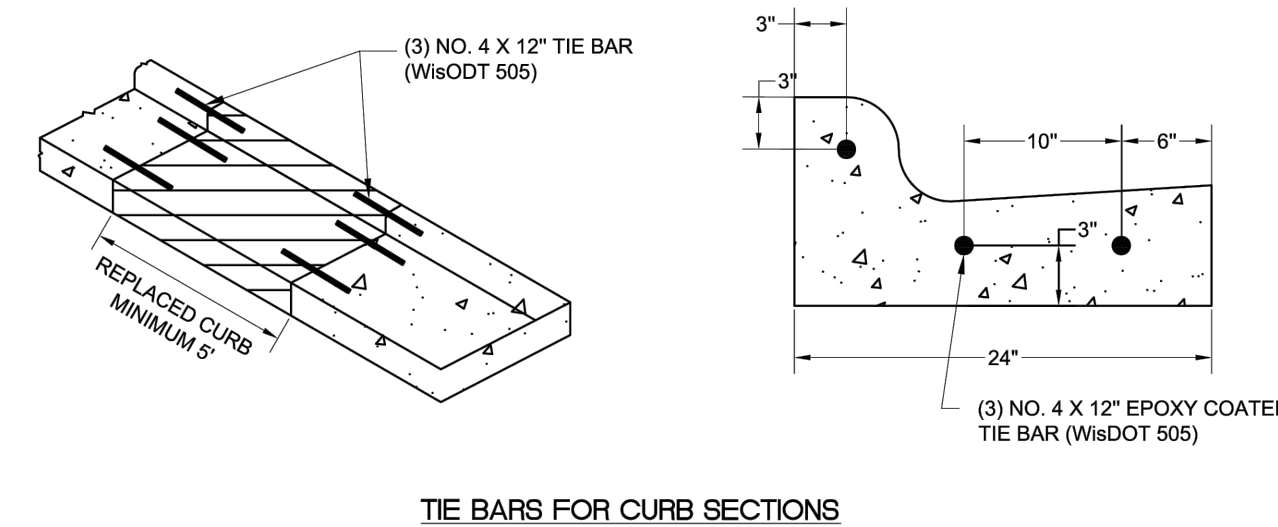
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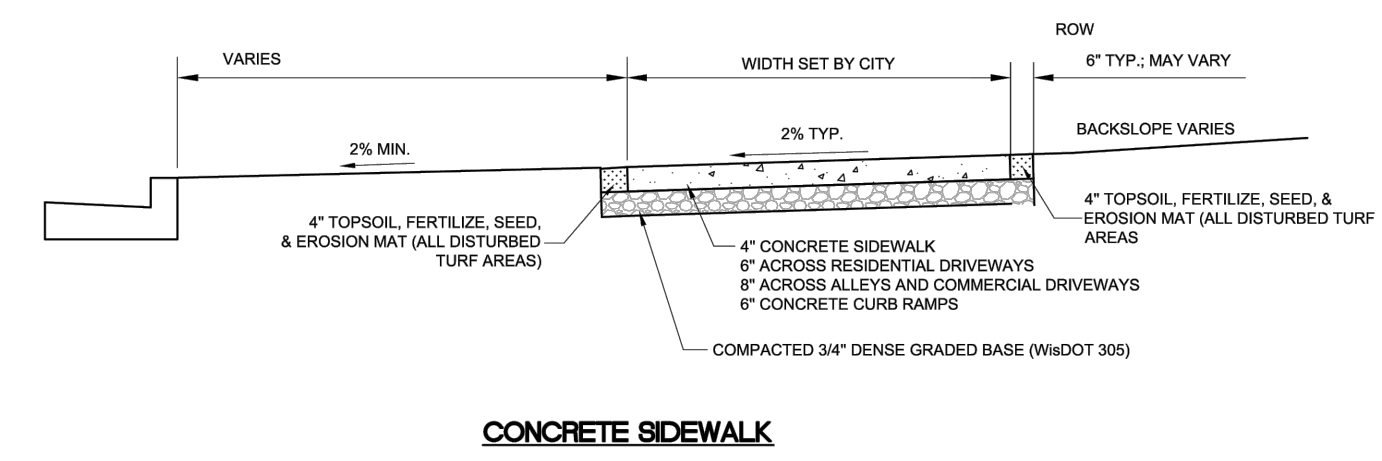


- GENERAL NOTES:**
1. DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO APPLICABLE PORTIONS OF THE WISDOT STANDARD SPECIFICATION, THE WISDOT FACILITIES DEVELOPMENT MANUAL, AND CITY SPECIAL PROVISIONS.
 2. PAVEMENT TIES AND THE BARS SHALL BE EPOXY COATED.
 3. THE NUMBER, SIZE, AND LAYOUT OF PAVEMENT TIE BARS SHALL BE AS REQUESTED BY THE CITY. THE MINIMUM SHALL BE AS SHOWN ON THE DETAIL DRAWINGS.
 4. WEB LINK TO THE WISDOT STANDARD SPECIFICATIONS AND FDM: <https://trust.dot.state.wi.us/static/standards/index.htm>
 5. SAW CUT EXISTING CONCRETE TO BE REMOVED.
 6. CONTACT CITY PUBLIC WORKS FOR FORM INSPECTION 24 HOURS PRIOR TO INSTALLING NEW CONCRETE. 715-682-7061.
 7. SEE WISDOT STANDARD DETAILS 13C1, 13C4, AND 13C13 FOR ADDITIONAL DETAILS AND INFORMATION.



RELATED DETAILS	CONCRETE TIE BARS
NO. - 1A7	DETAIL NO. - 2A1
NO. - 1A8	DRAWN BY: DM
	SCALE: NONE
	ENGINEERING DIVISION

- GENERAL NOTES:**
1. DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO APPLICABLE PORTIONS OF THE WISDOT STANDARD SPECIFICATIONS, WISDOT FACILITIES DEVELOPMENT MANUAL, AND CITY SPECIFICATIONS.
 2. WEB LINK TO WISDOT STANDARD SPECIFICATIONS: <http://roads.wisconsin.gov/standards/specs/index.htm>
 3. WEB LINK TO WISDOT FACILITIES DEVELOPMENT MANUAL: <http://roads.wisconsin.gov/standards/fdm/15-05-01-1601.pdf>
 4. THE CONCRETE FORMS, SUBGRADE, AND BASE MATERIALS MUST BE INSPECTED AND APPROVED BY THE CITY PRIOR TO PLACING CONCRETE. 24 HOURS ADVANCED NOTICE REQUIRED.
 5. THE WIDTH, ELEVATION, AND ALIGNMENT OF THE CONCRETE SIDEWALK SHALL BE PER PLAN OR AS REQUESTED BY THE CITY.
 6. CONTRACTOR TO FURNISH AND INSTALL DETECTABLE WARNING FIELDS AT ALL ROAD CROSSINGS.
 7. ALL CONTRACTION/EXPANSION JOINTS SHALL BE PLACED FOLLOWING CITY SPECIFICATIONS AND SHALL BE CUT FULL DEPTH WITH TROWEL OR OTHER APPROVED METHODS.
 8. TRANSVERSE CONTRACTION JOINTS SHALL BE EVENLY SPACED EVERY FIVE FEET (5'-0") ALONG THE NEW SIDEWALK. EACH JOINT SHALL BE SAW CUT OR TROWEL IN NOT LESS THAN ONE THIRD THE DEPTH OF THE CONCRETE THICKNESS.
 9. THE OUTSIDE EDGES OF NEWLY PLACED CONCRETE SHALL BE BACKFILLED WITH SEVEN (7) CALENDAR DAYS OF CONCRETE PLACEMENT. TOPSOIL, SEED, AND MULCH SHALL COMPLY WITH WISDOT STANDARD SPECIFICATIONS.
 10. THE FINAL CONCRETE FINISH SHALL CONSIST OF A LIGHTLY BROOMED SURFACE.
 11. CONTRACTOR IS RESPONSIBLE FOR PROTECTING THE CONCRETE FROM DAMAGE DUE TO VANDALISM, WEATHER, ETC. FOLLOWING CONCRETE PLACEMENT. SPECIAL PROTECTION CRITERIA APPLY TO COOLD WEATHER CONCRETE PLACEMENT.
 12. A COMPLETE UNIFORM COVERAGE OF WHITE PIGMENTED CURING COMPOUND (WisDOT 413.3.12.2) SHALL BE APPLIED TO ALL EXPOSED SURFACES OF NEWLY PLACED CONCRETE IMMEDIATELY FOLLOWING BROOMING WORK. ANY CONCRETE THAT IS NOT PROPERLY CURED AS STATED ABOVE WILL BE REJECTED. OTHER CURING METHODS MAY BE USED UPON APPROVAL BY THE CITY.
 13. TREES, TREE ROOTS AND TREE LIMBS SHALL NOT BE DISTURBED OR CUT WITHOUT PRIOR AUTHORIZATION FROM THE CITY URBAN FORESTRY COORDINATOR.



CONCRETE SPECIFICATIONS

1. AIR ENTRAINMENT EN. 1.1-1.2% FOR HAND FORMED CONCRETE AND 7% +/- 1.0% FOR SLIP FORMED CONCRETE.
2. COMPRESSIVE STRENGTH (28 DAYS) 3000 P.S.I. (28 DAYS) AND 7.5.
3. SLUMP - HAND PLACED FORMS = 4" OR LESS. SLIP FORMED PLACEMENT 2" OR LESS.
4. THE CITY RESERVES THE RIGHT TO REQUIRE CONTRACTOR TO PROVIDE FIELD TESTING.
5. CONCRETE FOR ALL SLOPE AND COMPRESSIVE STRENGTH TESTING COSTS SHALL BE PAID FOR BY THE CONTRACTOR.
6. CONCRETE THAT DOES NOT COMPLY WITH THE SPECIFICATIONS MAY BE REJECTED BY THE CITY.

SIDEWALK/DRIVEWAY	3/4" DENSE GRADED BASE (WISDOT 305) MINIMUM DEPTH
4" CONCRETE SIDEWALK	4"
6" CONCRETE RESIDENTIAL DRIVEWAY	6"
8" CONCRETE ALLEY AND COMMERCIAL DRIVEWAY	6"

RELATED DETAILS	CONCRETE SIDEWALK
NO. - 1A7	DETAIL NO. : 2A2
NO. - 1A8	DRAWN BY: DM
	SCALE: NONE
	ENGINEERING DIVISION

DRAWN BY NJG
CHECKED BY SJB

DETAILS

C108

SUBMITTAL NOTES

THE FOLLOWING INFORMATION SHALL BE SUBMITTED TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW. ONE ELECTRONIC (PDF) OR THREE HARD COPIES SHALL BE SUBMITTED IN A TIMELY MANNER PRIOR TO MATERIAL FABRICATION OR CONSTRUCTION TO ALLOW FOR MINIMUM PERIOD OF TEN WORKING DAYS FOR REVIEW.

STRUCTURAL STEEL SHOP DRAWINGS:

- TYPE OF STEEL
- LOCATION AND IDENTIFICATION MARK OF EACH MEMBER.
- DIMENSIONS, SIZE AND WEIGHT OF MEMBERS.
- LOCATIONS AND SIZE OF CUTS, COPELS, SLOTS AND HOLES.
- TYPE AND LOCATION OF SHOP AND FIELD CONNECTIONS.
- TYPE, SIZE AND EXTENT OF WELDS. INDICATE WELDS BY WELDING SYMBOLS ADOPTED BY THE AMERICAN WELDING SOCIETY.

COLD-FORMED STEEL SHOP DRAWINGS:

- MEMBER SIZES, BRACING & SPACING
- CONNECTIONS
- CALCULATIONS

STRUCTURAL ABBREVIATIONS

ABBRV.	WORD OR PHRASE	ABBRV.	WORD OR PHRASE
@	___ AT	LLH	___ LONG LEG HORIZONTAL
&	___ AND	LLV	___ LONG LEG VERTICAL
AB	___ ANCHOR BOLT	LSL	___ LAMINATED STRAND LUMBER
AL	___ ALTERNATE	LVL	___ LAMINATED VENEER LUMBER
APA	___ AMERICAN PLYWOOD ASSOCIATION	LW	___ LONG WAY
ARCH	___ ARCHITECTURAL	MFR	___ MANUFACTURER
BC	___ BOTTOM CHORD	MAX	___ MAXIMUM
BLDG	___ BUILDING	MECH	___ MECHANICAL
BLKG	___ BLOCKING	MIN	___ MINIMUM
BM	___ BEAM	MISC	___ MISCELLANEOUS
BOT	___ BOTTOM	MSR	___ MACHINE STRESS RATED LUMBER
BRG	___ BEARING	NIC	___ NOT IN CONTRACT
CL	___ CENTERLINE	NTS	___ NOT TO SCALE
CB	___ COLUMN BASE	OC	___ ON CENTER
CIP	___ CAST-IN PLACE	O.F.	___ OUTSIDE FACE
CLR	___ CLEAR	OPP	___ OPPOSITE
CJ	___ CONTROL OR CONSTRUCTION JOINT	PARA	___ PARALLEL
CMU	___ CONCRETE MASONRY UNIT	P/C	___ PRECAST CONCRETE
COL	___ COLUMN	PCF	___ POUNDS PER CUBIC FOOT
CONC	___ CONCRETE OR CONCENTRATED	PERP	___ PERPENDICULAR
CONT	___ CONTINUOUS	PL	___ STEEL PLATE
DBA	___ DECK BEARING ANGLE	PLF	___ POUNDS PER LINEAR FOOT
DEFI	___ DEFLECTION	PLY	___ PLYWOOD
DEMO	___ DEMOLITION	PSI	___ POUNDS PER SQUARE INCH
DFL	___ DOUGLAS FIR-LARCH	PSF	___ POUNDS PER SQUARE FOOT
DI	___ DIAMETER	PSL	___ PARALLEL STRAND LUMBER
DIM	___ DIMENSION	PIT	___ POST-TENSIONED CONCRETE
DL	___ DEAD LOAD	PT	___ PRESERVATIVE TREATED
DTL	___ DETAIL	REINF	___ REINFORCEMENT
DWL	___ DOWEL	REQ'D	___ REQUIRED
DWG	___ DRAWING	RTU	___ ROOF TOP UNIT
EA	___ EACH	SCHED	___ SCHEDULE
EJ	___ EACH FACE	SHT	___ SHEET
EJ	___ EXPANSION JOINT	SIM	___ SIMILAR
EL	___ ELEVATION	SLRS	___ SEISMIC LOAD RESISTING SYSTEM
EMBED	___ EMBEDMENT	SMF	___ SPECIAL MOMENT FRAME
EOSL	___ EDGE OF SLAB	SCBF	___ SPECIAL CONCENTRIC BRACED FRAME
EOS	___ EDGE OF STEEL	SMS	___ SHEET METAL SCREWS
EQ	___ EQUAL	SOG	___ SLAB ON GRADE
EW	___ EACH WAY	SP	___ SOUTHERN PINE
EXIST	___ EXISTING	SPEC	___ SPECIFICATION
EXP	___ EXPANSION	SPF	___ SPRUCE-PINE-FIR
EXT	___ EXTERIOR	SQ	___ SQUARE
FD	___ FLOOR DRAIN	SS	___ STAINLESS STEEL
FND	___ FOUNDATION	STL	___ STEEL
FF	___ FINISH FLOOR	STR	___ STRUCTURAL
FIN	___ FINISH	SW	___ SHORT WAY
FLR	___ FLOOR	SYM	___ SYMMETRICAL
FRMG	___ FRAMING	T&B	___ TOP AND BOTTOM
FRTW	___ FIRE-RETARDANT-TREATED WOOD	TC	___ TOP CHORD
FTG	___ FOOTING	T&G	___ TONGUE AND GROOVE
FV	___ FIELD VERIFY	TF	___ TOP OF FOOTING ELEVATION
GA	___ GAGE	TL	___ TOP OF LEDGE ELEVATION
GALV	___ GALVANIZED	TOC	___ TOP OF CONCRETE ELEVATION
GB	___ GRADE BEAM	TOSL	___ TOP OF SLAB ELEVATION
GC	___ GENERAL CONTRACTOR	TOS	___ TOP OF STEEL ELEVATION
GT	___ GIRDER TRUSS	TP	___ TOP OF PIER ELEVATION
GYP	___ GYPSUM	TPC	___ TOP OF PILE CAP
HORIZ	___ HORIZONTAL	TRANS	___ TRANSVERSE
HSS	___ HOLLOW STRUCTURAL SECTION	TW	___ TOP OF WALL ELEVATION
HT	___ HEIGHT	TY	___ TYPICAL
HVAC	___ HEATING, VENTILATING & AIR COND.	UNO	___ UNLESS NOTED OTHERWISE
HWS	___ HEADED WELD STUD	VERT	___ VERTICAL
I.F.	___ INSIDE FACE	VIF	___ VERIFY IN FIELD
INFO	___ INFORMATION	WF	___ WITH
JST	___ JOIST	WF	___ WIDE FLANGE
KSI	___ KIIPS PER SQUARE INCH	w/o	___ WITHOUT
L	___ ANGLE	WP	___ WORKPOINT
LBS.	___ POUNDS	WT	___ WEIGHT
LL	___ LIVE LOAD	WWF	___ WELDED WIRE FABRIC

WOOD FRAMING NOTES

- FLOOR SHEATHING:** 3/4" TONGUE AND GROOVE APA RATED WOOD FLOOR SHEATHING (PLYWOOD OR OSB). GLUE AND NAIL TO FLOOR FRAMING WITH 8d (2 1/2") COMMON OR BOX NAILS @ 6" OC ALONG PANEL EDGES AND 12" OC ALONG INTERMEDIATE MEMBERS.
- ROOF SHEATHING:** 5/8" SQUARE EDGE APA-RATED WOOD SHEATHING (PLYWOOD OR OSB) WITH (1) SHEATHING CLIP (H-CLIP) PER SPAN. ATTACH SHEATHING TO ROOF FRAMING MEMBERS WITH 8d (2 1/2") COMMON OR BOX NAILS @ 6" OC ALONG PANEL EDGES AND 12" OC ALONG INTERMEDIATE MEMBERS. DISTANCE OF NAILS FROM EDGE OF SHEATHING SHALL BE 3/8" STAGGER ALONG SHEATHING JOINTS.
- INTERIOR WALL SHEATHING:** FOR ALL INTERIOR LOAD BEARING WALLS NOT DESIGNATED AS SHEAR WALLS, PROVIDE A MINIMUM OF (1) LAYER OF 5/8" GYPSUM BOARD ATTACHED TO WALL STUDS WITH #6 x 1 1/4" TYPE "S" OR "W" DRYWALL SCREWS @ 7" OC ALONG PANEL EDGES AND 12" OC ALONG INTERMEDIATE MEMBERS.
- ALL CONNECTIONS SHALL COMPLY WITH IBC 2015/2018 TABLE 2304.1.1 FASTENING SCHEDULE. SEE SHEET 5001, DETAILS IN DRAWINGS WITH MORE EXTENSIVE CONNECTIONS SHALL GOVERN OVER THOSE SHOWN IN TABLE.
- PROVIDE CROSS BRIDGING BETWEEN FLOOR JOISTS PER NATIONAL DESIGN SPECIFICATION (LATEST EDITION) FOR WOOD CONSTRUCTION 4.4.1
- FOR ALL WOOD MEMBERS THAT FRAME INTO OTHER MEMBERS AND WHERE NOT SPECIFICALLY DETAILED OR SPECIFIED IN THE DRAWINGS, USE AN APPROPRIATE SIMPSON STRONG TIE HANGER SELECTED FOR ACTUAL END REACTION. CONTACT ENGINEER FOR END REACTION IF NECESSARY.
- ALL EXTERIOR EXPOSED LUMBER TO BE PRESERVATIVE TREATED (PT) OR A NATURALLY DURABLE SPECIES FOR MOISTURE RESISTANCE. ALL CONNECTION HARDWARE (INCLUDING, BUT NOT LIMITED TO BOLTS, SCREWS, NAILS, HANGERS, HOLD-DOWNS, TIES, ETC.) SHALL BE COMPATIBLE WITH EXTERIOR EXPOSURE AND PT LUMBER SUCH AS STAINLESS STEEL, GALVANIZED (ZMAX ON SIMPSON PRODUCTS), ETC.

POST-INSTALLED ANCHORAGE NOTES

- ALL POST-INSTALLED (MECHANICAL AND ADHESIVE) ANCHORS SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPI).
- UNLESS A SPECIFIC MANUFACTURER IS INDICATED IN THE DRAWINGS, THE FOLLOWING ANCHORS MAY BE USED WHEN GENERALLY INDICATED BY ANCHOR TYPE OR AS AN EQUAL WHEN "OR EQUAL (EQ)" IS INDICATED. WHERE "OR EQUAL" IS LISTED FOR A FASTENER TYPE NOT INDICATED BELOW, CONTRACTOR SHALL SUBMIT LITERATURE FOR THE PRODUCT INDICATING THAT IT IS AN EQUIVALENT, OR BETTER ANCHOR AND HAS CURRENT ICC OR EQUIVALENT CODE APPROVAL.

ANCHORS FOR USE IN CONCRETE

SCREW ANCHORS:
SIMPSON STRONGTIE: TITEN HD (S.S.)
HLTI: KH-EZ (S.S.)
DEWALT: SCREW-BOLT+
EXPANSION ANCHORS
SIMPSON STRONGTIE: STRONG-BOLT 2 (S.S.)
HLTI: KWIK-BOLT T2Z (S.S.)
DEWALT: POWER-STUD+ SD2, POWER-STUD+ SD4 (S.S.)
ADHESIVE ANCHORS:
SIMPSON STRONGTIE: SET-3G (EPOXY) OR AT-3G (ACRYLIC)
HLTI: HIT-RE 500 V3 (EPOXY) OR HIT-HY 200 (ACRYLIC)
DEWALT: PURE 220+ (EPOXY) OR AC208+ (ACRYLIC)

ANCHORS FOR USE IN GROUTED CONCRETE MASONRY UNITS

SCREW ANCHORS:
SIMPSON STRONGTIE: TITEN HD (S.S.)
HLTI: KH-EZ (S.S.)
DEWALT: SCREW-BOLT+
EXPANSION (WEDGE) ANCHORS:
SIMPSON STRONGTIE: STRONG-BOLT 2 (S.S.)
HLTI: KWIK-BOLT T2Z (S.S.)
DEWALT: POWER-STUD+ SD2, POWER-STUD+ SD4 (S.S.)
ADHESIVE ANCHORS:
SIMPSON STRONGTIE: AT-3G
HLTI: HIT-HY 270
DEWALT: AC100+ GOLD
(WITH SCREEN TUBES OR SIMILAR HARDWARE AS REQUIRED AND SUPPLIED BY MANUFACTURER FOR HOLLOW MASONRY APPLICATIONS)

ANCHORS FOR USE IN HOLLOW CONCRETE MASONRY UNITS

SCREW ANCHORS:
SIMPSON STRONGTIE: TITEN HD (S.S.)
ADHESIVE ANCHORS:
SIMPSON STRONGTIE: AT-XP
HLTI: HIT-HY 270
DEWALT: AC100+ GOLD

- NOT ALL FINISHES ARE AVAILABLE IN EVERY BRAND. "I.S.S." INDICATED THAT THE PRODUCT HAS A STAINLESS STEEL VERSION. S.S. FASTENERS SHOULD BE USED WHEN NOTED ON DRAWINGS. "GALVANIZED" ANCHORS MUST BE HOT-DIPPED GALVANIZED ONLY. MECHANICALLY GALVANIZED MAY BE USED WHEN GALVANIZED IS NOT INDICATED OR REQUIRED. STAINLESS STEEL ANCHORS MUST BE TYPE 304 OR TYPE 316 UNLESS SPECIFICALLY NOTED OTHERWISE.

MATERIAL DESIGN PROPERTIES

REINFORCING STEEL STRENGTHS:
BARS (ASTM A 615, grade 60) $F_y = 60,000$ psi
WWF (ASTM A 185) $F_y = 65,000$ psi

STRUCTURAL MASONRY STRENGTHS:
CONCRETE MASONRY UNITS (ASTM C90) $f_{m,net} = 3,250$ psi
MORTAR (ASTM C270) TYPE 5
 $f'_m = 2,500$ psi
 $f'_m = 2,500$ psi (NET AREA COMPRESSIVE STRENGTH)
GROUT (ASTM C476)
MASONRY ASSEMBLY

STRUCTURAL STEEL STRENGTHS:

WF SHAPES (ASTM A992) $F_y = 50,000$ psi
ANGLES, CHANNELS, PLATES, & BARS (ASTM A36) $F_y = 36,000$ psi
SQUARE & RECTANGULAR TS OR HSS SECTIONS (ASTM A500, grade B) $F_y = 46,000$ psi
ROUND HSS SECTIONS (ASTM A500, grade B) $F_y = 42,000$ psi
STEEL PIPE (ASTM A53, grade B) $F_y = 35,000$ psi
HIGH STRENGTH BOLTS (ASTM F3125, grade 325) $F_y = 36,000$ psi
ANCHOR BOLTS (ASTM F1554) E70XX
WELD ELECTRODES

WOOD STRENGTHS:

WOOD MEMBERS USED FOR THIS PROJECT SHALL BE OF THE FOLLOWING GRADES/STRENGTHS AT A MINIMUM. HIGHER GRADES INDICATED IN PLANS OR SCHEDULES GOVERN OVER THESE MINIMUMS.

WALL STUDS AND HEADERS: SEE PLAN AND SCHEDULES
INTERIOR BEAMS AND JOISTS: SPRUCE PINE FIR, No.1/No.2
EXTERIOR PATIO BEAMS AND JOISTS: SOUTHERN YELLOW PINE (PT), No.1

WOOD MATERIAL PROPERTIES

SPECIES	GRADE	E (psi)	F _c (psi)	F _t (psi)	F _{v,design} (psi)	F _{v,spec} (psi)
SPRUCE-PINE-FIR (SPF)	STUD	1,200,000	675	135	425	725
	No.1/No.2	1,400,000	875	135	425	1,150
DOUGLAS FIR-LARCH (DFL)	SS	1,500,000	1,250	135	425	1,400
	STUD	1,400,000	700	180	625	850
2x4 SOUTHERN PINE (SP)	No.2	1,600,000	900	180	625	1,350
	No.1	1,700,000	1,000	180	625	1,500
2x4 SOUTHERN PINE (SP)	No.1 & BTR	1,800,000	1,200	180	625	1,550
	SS	1,900,000	1,500	180	625	1,700
2x4 SOUTHERN PINE (SP)	STUD	1,300,000	650	175	565	850
	No.2	1,400,000	1,100	175	565	1,450
2x6 SOUTHERN PINE (SP)	No.1	1,600,000	1,500	175	565	1,650
	SS	1,800,000	2,350	175	565	1,900
6x6 SOUTHERN PINE (SP), WET SERVICE	STUD	1,300,000	575	175	565	800
	No.2	1,400,000	1,000	175	565	1,400
LAMINATED STRAND LUMBER (LSL)	No.1	1,600,000	1,350	175	565	1,550
	SS	1,800,000	2,100	175	565	1,800
LAMINATED VENEER LUMBER (LVL)	1.3E	1,300,000	1,700	425	710	1,835
PARALLEL STRAND LUMBER (PSL), POST	2.0E	2,000,000	2,600	285	750	2,510
PARALLEL STRAND LUMBER (PSL), BEAM	1.8E	1,800,000	2,500	190	545	2,500
PARALLEL STRAND LUMBER (PSL), BEAM	2.0E	2,000,000	2,900	290	625	2,900

SCHEDULE NOTES:
1. DESIGN VALUES LISTED ARE FOR NORMAL LOAD DURATION AND DRY SERVICE CONDITIONS, UNLESS NOTED OTHERWISE.
2. CONTACT ENGINEER FOR REQUIRED DESIGN PROPERTIES OF SOUTHERN PINE MEMBER SIZES OR OTHER LUMBER NOT LISTED IN SCHEDULE.

GUARD RAILINGS, LADDERS, AND STEEL STAIRS

- ALL RAILINGS, LADDERS, AND STEEL STAIRS SHALL BE ENGINEERED THROUGH A DELEGATED DESIGN BY THE SUPPLIER OR FABRICATOR. SHOP DRAWINGS AND CALCULATIONS SHALL BE SEALED BY A PROFESSIONAL (STRUCTURAL) ENGINEER LICENSED IN THE STATE THAT THE PROJECT IS TO BE CONSTRUCTED.
- APPLIED LIVE LOADS (PER ASCE 7 & IBC)
HANDRAILS & GUARDRAILS: 200 POUNDS OR 50 POUNDS PER LINEAR FOOT (PLF) APPLIED AT ANY LOCATION IN ANY DIRECTION (LOADS NOT TO BE APPLIED CONCURRENTLY).
GRAB BARS: 250 POUNDS APPLIED AT ANY LOCATION IN ANY DIRECTION.
LADDERS: 300 POUNDS CONCENTRATED LOAD AT ANY LOCATION IN ANY DIRECTION.
LADDER RAIL EXTENSIONS: 100 POUNDS AT ANY LOCATION IN ANY DIRECTION ON RAILS EXTENDING ABOVE FLOOR OR ROOF LEVEL.
STEEL OR CONCRETE FILLED METAL PAN STAIRS: 100 PSF LIVE LOAD OR 300 POUNDS CONCENTRATED LOAD AT ANY LOCATION IN ANY DIRECTION, UNLESS SPECIFICALLY NOTED ON OTHER LOCATIONS (PLANS, DETAILS, SPECS).
- ANCHORAGE: DELEGATED DESIGN SHALL INCLUDE FOR ANCHORAGE & ATTACHED SYSTEMS TO THE BUILDING STRUCTURE, SLAB OR WALL. ANCHORAGE SYSTEM SHALL BE APPROVED BY THE ARCHITECT OR ENGINEER. DETAILS OF ANCHORAGE OR CONNECTIONS ARE TO BE INCLUDED WITH SHOP DRAWINGS AND CONNECTIONS ARE TO BE INCLUDED WITH CONSTRUCTION OF ASSEMBLY.
- DESIGN, FABRICATE, AND TEST ASSEMBLIES IN ACCORDANCE WITH THE MOST STRINGENT REQUIREMENTS OF APPLICABLE LOADS IN THE MODEL OR LOCAL BUILDING CODE.
- ALLOW FOR EXPANSION AND CONTRACTION OF MEMBERS AND BUILDING MOVEMENT WITHOUT DAMAGE TO CONNECTIONS OR MEMBERS.
- DIMENSIONS: SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS, CONFIGURATION, AND HEIGHTS. SEE ARCHITECTURAL AND/OR STRUCTURAL DRAWINGS FOR APPROXIMATE SIZES IF INDICATED. FIELD VERIFY DIMENSIONS ON SITE PRIOR TO FABRICATING.
- MATERIALS:
RAILINGS: ASTM A53 GRADE B, SCHEDULE 40 (MIN) FOR ROUND PIPE OR ASTM A500 GRADE B FOR STRUCTURAL TUBING.
STAIR STRINGERS: ASTM A36 CHANNEL OR ASTM A500 GRADE B STRUCTURAL TUBING WHEN SPECIFICALLY NOTED OR INDICATED.
PLATES (BASE PLATES, STAIR PANS, ETC): SEE MATERIAL DESIGN PROPERTIES.
ANGLES: SEE MATERIAL DESIGN PROPERTIES.
BOLTS: SEE MATERIAL DESIGN PROPERTIES.
POST-INSTALLED ANCHORS: COORDINATE w/ MANUFACTURERS DATA TO MEET MINIMUM DESIGN REQUIREMENTS.
- FINISH:** COORDINATE w/ ARCHITECTURAL REQUIREMENTS. MATERIALS EXPOSED TO WEATHER OR CORROSIVE ENVIRONMENTS SHALL BE FINISHED OR COATED TO MINIMIZE EFFECTS OF RUSTING AND CORROSION.
- WELDS THAT ARE TO BE EXPOSED TO VIEW ARE TO BE GROUND SMOOTH. EXTERIOR COMPONENTS ARE TO HAVE JOINTS CONTINUOUSLY SEALED. PROVIDE CONDENSATE DRAIN HOLES AT BOTTOM OF MEMBERS AT LOCATIONS THAT WILL NOT ENCOURAGE WATER INTRUSIONS.

DESIGN DATA

DESIGN CODE:
2015 INTERNATIONAL BUILDING CODE (IBC) WITH WISCONSIN 2018 AMENDMENTS (SPS 361-366)

WIND LOAD INFORMATION:

BASIC WIND SPEED: 115 MPH
RISK CATEGORY: II
WIND EXPOSURE: D
INTERNAL PRESSURE COEFFICIENTS: ± 0.18
COMPONENTS AND CLADDING (STRENGTH DESIGN/ULTIMATE LOADS):
WIDTH OF PRESSURE COEFFICIENT ZONE (z): 5.0 ft
TRIBUTARY WIND LOAD AREAS: 10 ft² 50 ft² 100 ft²
ROOF (ABLESHIP/CATEGORY/EXPLORE):
NEGATIVE ZONE 1 -36.8 psf -34.6 psf -33.7 psf
NEGATIVE ZONE 2 -61.8 psf -46.5 psf -39.9 psf
NEGATIVE ZONE 3 -93.0 psf -55.9 psf -39.9 psf
POSITIVE PRESSURE ALL ZONES 16.0 psf 16.0 psf 16.0 psf
WALLS:
ZONE 4 -36.5 psf -38.0 psf -31.6 psf
ZONE 5 -44.9 psf -38.0 psf -35.0 psf
POSITIVE PRESSURE ALL ZONES 33.7 psf 30.2 psf 28.7 psf
PARAPETS:
INTERIOR ZONE -59.5 psf -52.5 psf -49.5 psf
CORNER ZONE -68.0 psf -57.5 psf -53.0 psf
POSITIVE PRESSURE ALL ZONES 116.5 psf 75.6 psf 57.9 psf

SEISMIC LOAD INFORMATION:

RISK CATEGORY I
SEISMIC LOAD IMPORTANCE FACTOR (I_a) 1.00
SEISMIC SITE CLASS D
MAPPED SPECTRAL RESPONSE ACCELERATION (S_s) 0.042
MAPPED SPECTRAL RESPONSE ACCELERATION (S₁) 0.017
SPECTRAL RESPONSE COEFFICIENT (S_{ds}) 0.045
SPECTRAL RESPONSE COEFFICIENT (S_{d1}) 0.028
SEISMIC DESIGN CATEGORY A
BASIC SEISMIC FORCE RESISTING SYSTEM ORDINARY PLAIN MASONRY SHEAR WALLS
RESPONSE MODIFICATION FACTOR 1.5
SEISMIC RESPONSE COEFFICIENT (C_s) 0.01
DESIGN BASE SHEAR 24.6 KIIPS
ANALYSIS PROCEDURE INDEX FORCE

COLD-FORMED METAL FRAMING NOTES

*** NOTE TO CONTRACTOR ***
SIZES LISTED ARE MINIMUM SIZES AND ARE TO BE USED ONLY AS AN AID IN BIDDING. EXACT SIZES AND SPACING OF ALL COLD-FORMED METAL FRAMING SHALL BE DETERMINED BY THE COLD-FORMED FRAMING DESIGNER. SHOP DRAWINGS AND SUPPORTING CALCULATIONS SHALL BE SEALED AND SIGNED BY A PROFESSIONAL (STRUCTURAL) ENGINEER IN THE STATE THAT THE PROJECT IS TO BE CONSTRUCTED. SEE COLD-FORMED METAL FRAMING NOTES FOR ADDITIONAL INFORMATION

- THE COLD-FORMED METAL FRAMING SHALL BE COMPLETELY DESIGNED AND SUPPLIED BY THE CONTRACTOR FOR ALL GRAVITY, LATERAL, AND OTHER LOADS INDUCED BY THE BUILDING MATERIALS SHOWN ON THE PROJECT DRAWINGS AND THE DESIGN LOADS APPLIED IN ACCORDANCE WITH THE BUILDING CODE LISTED IN THE DESIGN DATA.
- MEMBER SECTION PROPERTIES AND ALLOWABLE STRESSES SHALL BE CALCULATED IN ACCORDANCE WITH THE PROVISIONS OF THE LATEST EDITION OF THE AISI "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS."
- SHOP DRAWINGS AND SUPPORTING CALCULATIONS FOR THE COLD-FORMED METAL FRAMING SYSTEM INCLUDING ALL STUDS, JOISTS, HEADERS, JAMBS, SILLS, AND ASSOCIATED CONNECTION DETAILS, SHALL BE SEALED & SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE THAT THE PROJECT IS TO BE CONSTRUCTED.
- HEADERS AND JAMBS AT OPENINGS MAY CONSIST OF BUILT-UP COLD-FORMED METAL SECTIONS OR HOT ROLLED STEEL SECTIONS (TUBES, ANGLES, ETC.). SOME CONDITIONS MAY NECESSITATE HOT ROLLED STEEL SECTIONS, AND ARE TO BE SUPPLIED AND INSTALLED BY THE COLD-FORMED METAL CONTRACTOR.
- MECHANICAL BRIDGING SHALL BE INSTALLED PRIOR TO THE ATTACHMENT OF FACING MATERIALS AND SHALL BE SECURED IN A MANNER TO PREVENT STUD ROTATION AND BE SPACED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. MAXIMUM SPACING SHALL BE 6'-0" ON CENTER FOR LATERALLY LOADED WALLS AND 4'-0" ON CENTER FOR AXIALLY LOADED WALLS, UNLESS INDICATED OTHERWISE FOR CLOSER SPACING IN PROJECT SPECIFICATION.
- PROVIDE WEB STIFFENERS AT HORIZONTAL AND VERTICAL REACTION POINTS.
- PROVIDE ALL HORIZONTAL AND VERTICAL ATTACHMENT MECHANISMS WHERE REQUIRED.
- PROVIDE JACK STUDS OR CRIPPLES BELOW WINDOW SILLS, AND ABOVE WINDOW AND DOOR HEADS. THESE SHALL BE SECURELY ATTACHED TO SUPPORTING MEMBERS.
- ALL WELDING SHALL BE PERFORMED BY AWS D1.3 CERTIFIED WELDERS IN ACCORDANCE WITH THE PROVISIONS OF THE LATEST EDITION OF AWS D1.3, "SPECIFICATIONS FOR WELDING SHEET STEEL IN STRUCTURES."
- QUALIFICATION OF WELDING PERSONNEL, TECHNIQUE FOR WELDING, AND WELDING WORKMANSHIP: PROVIDE AS IDENTIFIED BY IBC SECTION 2204. SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS LISTED IN SECTIONS 2210 AND 2211. SPECIAL INSPECTION OF WELDING (WHEN APPLICABLE AND REQUIRED BY LOCAL AUTHORITIES, STATE AUTHORITIES, AND GOVERNING BUILDING CODE) SHALL BE IN ACCORDANCE WITH IBC SECTION 1705.2.
- TEMPORARY BRACING SHALL BE PROVIDED AND REMAIN IN PLACE UNTIL THE STRUCTURE IS COMPLETELY STABILIZED. PRIOR TO ATTACHMENT OF WALL SHEATHING, PROVIDE TEMPORARY BRACING TO RESIST BUCKLING OF LOAD-BEARING STUDS. TEMPORARY X-BRACING TO RESIST LATERAL WIND AND SEISMIC LOADS AND ANY OTHER TEMPORARY BRACING DEEMED NECESSARY DURING CONSTRUCTION. TEMPORARY BRACING IS THE RESPONSIBILITY OF THE COLD-FORMED METAL INSTALLER.
- ALL FIELD CUTTING OF STUDS MUST BE DONE BY SAWING OR SHEARING. TORCH CUTTING OF COLD-FORMED MEMBERS IS UNACCEPTABLE.
- STUDS SHALL NOT DEVIATE FROM PLUMB, LEVEL AND TRUE TO LINE OF 1/8" IN 10'-0" OR IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

COLD-FORMED METAL PRODUCT IDENTIFICATION

PRODUCT GEOMETRY MUST MEET OR EXCEED THE MINIMUM PROPOSED BY THE STEEL STUD MANUFACTURERS ASSOCIATION FOR INDUSTRY STANDARDIZATION. FOR SSMA DESIGNATIONS SEE TABLES BELOW.

MEMBER SECTION TABLE			MEMBER THICKNESS TABLE			
SECTION	SSMA IDENTIFICATION	FLANGE WIDTH	MLS GAUGE	MINIMUM DELIVERED THICKNESS	DESIGN THICKNESS	
S-SECTIONS (STUDS)	S137	1.38"	33	20	0.0329"	0.0346"
	S162	1.58"	43	18	0.0428"	0.0451"
	S200	2"	54	16	0.0538"	0.0566"
T-SECTIONS (TRACKS)	S250	2 1/2"	88	14	0.0677"	0.0713"
	T25	1 1/4"	97	12	0.0667"	0.0707"
	T200	2"	118	10	0.1167"	0.1242"

MEMBER DEPTH (WEB SIZE) TABLE		SSMA PRODUCT IDENTIFICATION	
SSMA IDENTIFICATION	MEMBER DEPTH	DEPTH SHAPE	YIELD STRENGTH (IF GREATER THAN 33ksi)
600	6"	800S162-43	(50ksi)
800	8"		
1000	10"		

SNOW LOAD INFORMATION:
GROUND SNOW LOAD (P_g) 60 psf
SNOW EXPOSURE FACTOR (C_e) 1.00
SNOW LOAD IMPORTANCE FACTOR (I_s) 1.00
THERMAL FACTOR (C_t) 1.00 (1.2 AT OVERHANG)
FLAT ROOF SNOW LOAD (P_f) 42 psf
DESIGN UNBALANCED SNOW LOAD (P_u) 42 psf + DRIFT

SYSTEM DEAD LOADS:

EXISTING BRICK VENEER PER WYTHE 40 psf
EXISTING FLOOR (ASSUMED) 20 psf
EXISTING ROOF (ASSUMED) 42 psf
EXISTING 3RD FLOOR CEILING SYSTEM (ASSUMED) 10 psf

LIVE LOADS:

LIVE LOAD REDUCTIONS USED PER CODE SECTION 1607.10:
MEETING & ASSEMBLY SPACES, MOVABLE SEATING AREAS 100 psf
FIXED SEATING AREAS 60 psf
STACK AREAS 150 psf
OFFICES 50 psf or 2000 lbs
LOBBIES AND FIRST FLOOR CORRIDORS 100 psf or 2000 lbs
CORRIDORS ABOVE FIRST FLOOR 80 psf or 2000 lbs
STAIRWAYS 100 psf
MECHANICAL / ELECTRICAL ROOMS 100 psf
ROOF SEE SNOW LOAD INFO

FUTURE EXPANSION:

VAUGHN PUBLIC LIBRARY

502 W. MAIN STREET

VAUGHN PUBLIC LIBRARY
502 W. MAIN STREET
ASHLAND, WI 54806

PROJECT NUMBER 233682.00

SEAL

ISSUED FOR:
100% CD SET 11/26/2024

REVISION FOR: NO. DESCRIPTION DATE

DRAWN BY SPIRE

CHECKED BY SPIRE

STRUCTURAL NOTES & SCHEDULES

S001

MASONRY WALL CONSTRUCTION NOTES

- FOR USE WITH IBC 2015, "ACI 530-13/ASCE 5-13/TMS 402-13 BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" PROVIDE LEVEL B QUALITY ASSURANCE PER TABLE 3.1.2 AND AS REQUIRED IN CHAPTER 3. VERIFY FM REQUIRED USING THE UNIT STRENGTH METHOD.
- FOR USE WITH IBC 2018 OR LATER, IN ACCORDANCE WITH "TMS 402/602-16 BUILDING CODE REQUIREMENTS AND SPECIFICATION FOR MASONRY STRUCTURES," PROVIDE LEVEL B QUALITY ASSURANCE PER TABLES 3 AND 4 AND AS REQUIRED IN CHAPTER 1. VERIFY FM REQUIRED USING THE UNIT STRENGTH METHOD.
- CMU SHALL BE LAID IN RUNNING BOND WITH TYPE S MORTAR, UNLESS SPECIFICALLY INDICATED OTHERWISE ON STRUCTURAL OR ARCHITECTURAL DRAWINGS OR SPECIFICATIONS. PROJECTED PIERS / PILASTERS SHALL BE TOOTHED INTO THE WALL.
- PROVIDE MINIMUM (1) #5 VERTICAL BAR AT ALL WALL CORNERS, ENDS OF WALLS, & EACH SIDE OF CONTROL JOINTS.
- ALL REINFORCED CELLS SHALL BE GROUTED WITH PEA GRAVEL CONCRETE HAVING A MINIMUM COMPRESSIVE STRENGTH AS LISTED IN THE MATERIAL DESIGN PROPERTIES IN THE GENERAL NOTES (2,500 PSI, MIN), WITH SLUMP 8" TO 11" (UNLESS NOTED OTHERWISE IN SPEC).
- HORIZONTAL REINFORCING AND BOND BEAM REINFORCING AT CORNERS SHALL BE LAPPED A MINIMUM OF 48 BAR DIAMETERS, OR 24" INCHES, WHICHEVER IS LARGER.
- GROUT LIFTS SHALL NOT EXCEED 5 FEET UNLESS COORDINATED BETWEEN THE ARCHITECT, ENGINEER, AND GENERAL CONTRACTOR OR CONSTRUCTION MANAGER. CONSOLIDATE GROUT AT TIME OF PLACEMENT.
- CLEANOUTS SHALL BE PROVIDED IN THE BOTTOM COURSE OF MASONRY FOR EACH GROUT POUR HEIGHT EXCEEDING 5 FEET.
- CMU FACE SHELLS AND WEBS SHALL HAVE FULL MORTAR BEDDING IN THE STARTING COURSE ON FOUNDATIONS, AND IN ALL COURSES OF PIERS AND PILASTERS.
- FOR RUNNING BOND WALLS, PROVIDE STANDARD WEIGHT HORIZONTAL JOINT REINFORCEMENT AT 16"OC VERTICALLY (18"OC IN PARAPET WALLS). FOR STACK BOND WALLS, PROVIDE STANDARD WEIGHT HORIZONTAL JOINT REINFORCEMENT AT 8"OC VERTICALLY, OR EXTRA HEAVY (3/16" SIDE RODS) JOINT REINFORCEMENT AT 16"OC VERTICALLY. SEE DETAILS FOR ADDITIONAL INFORMATION. HORIZONTAL JOINT REINFORCEMENT SHALL BE INCLUDED IN PROJECTED PILASTERS AND TIED INTEGRALLY WITH WALL.
- HORIZONTAL JOINT REINFORCEMENT SHALL BE TERMINATED AT CONTROL JOINTS. BOND BEAM REINFORCING SHALL RUN CONTINUOUS ACROSS CONTROL JOINTS, AS INDICATED IN DETAILS.
- IF CMU CONTROL JOINTS ARE NOT INDICATED ON PLAN OR IN ARCHITECTURAL DRAWINGS FOR GIVEN LOCATIONS, PROVIDE CMU CONTROL JOINTS IN EXTERIOR WALLS AT A MAXIMUM SPACING OF 28 FEET AND IN INTERIOR WALLS AT 32 FEET, MAX. PROVIDE JOINTS WITHIN 12 FEET EACH WAY OF CORNERS, AND LOCATE AT, OR NEAR, INTERSECTIONS. SEE ARCHITECTURAL DRAWINGS FOR CONTROL JOINT LOCATIONS IN MASONRY VENEER.
- SOLID OR SOLID-GROUTED CMU SHALL BE PROVIDED IN COURSES IMMEDIATELY ABOVE AND BELOW ANY CHANGES IN WYTHE THICKNESS. PROVIDE BOND BEAMS WHERE NOTED ON ARCHITECTURAL OR STRUCTURAL DRAWINGS.
- REFER TO "MASONRY WALL & PIER SCHEDULE" FOR MASONRY WALL REINFORCING REQUIREMENTS.
- JAMBS OF OPENINGS SHOWN ON PLAN BUT NOT LABELED AS MASONRY PIERS SHALL HAVE ONE CELL GROUTED SOLID W/ (1) #5 VERTICAL BAR FULL HEIGHT, MINIMUM (UNLESS NOTED OTHERWISE IN LITEL SCHEDULE).
- ALL REINFORCING OF MASONRY WALLS SHALL BE FULL HEIGHT OF WALL UNLESS INDICATED OTHERWISE.
- SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF NON-LOAD BEARING MASONRY WALLS. INTERIOR NON-LOAD BEARING WALLS 12'-0" TALL (OR MORE) ON 4" THICK SLABS ON GROUND REQUIRE THICKENED SLABS. INTERIOR NON-LOAD BEARING WALLS 14'-0" TALL (OR MORE) ON 5" THICK SLABS ON GROUND REQUIRE THICKENED SLABS. SEE DETAIL FOR THICKENED SLAB.
- PROVIDE BOND BEAM W/ (2) #4 x CONT AT ALL OPENING SILLS NOT SPECIFICALLY DETAILED.
- MISC. LINTELS NOT SHOWN ON PLAN (HVAC, PLUMBING, ETC.):
a. UP TO 4'-0" CLEAR: 8" DEEP MASONRY LINTEL W/ (2) #4 BOTTOM BARS
b. 4'-0" TO 6'-0" CLEAR: 16" DEEP MASONRY LINTEL W/ (2) #5 BOTTOM BARS
c. 6'-0" AND LARGER: CONFIRM WITH ENGINEER.

MINIMUM FASTENING SCHEDULE, UNO (BASED ON IBC 2015/2018 TABLE 2304.10.1)

CONNECTION TYPE	LOCATION	FASTENING
1. JOIST TO SILL OR GIRDER	TOENAIL	(3) 8d COMMON
2. BRIDGING TO JOIST	TOENAIL EA END	(2) 8d COMMON
3. 1"x6" SUBFLOOR OR LESS TO EACH JOIST	FACE NAIL	(2) 8d COMMON
4. WIDER THAN 1"x6" SUBFLOOR TO EACH JOIST	FACE NAIL	(3) 8d COMMON
5. 2" SUBFLOOR TO JOIST OR GIRDER	BLIND AND FACE NAIL	(2) 16d COMMON
6. SOLE PLATE TO JOIST OR BLOCKING	TYPICAL FACE NAIL AT BRACED WALL PANELS	16d @ 12"OC (3) 16d @ 16"OC
7. TOP PLATE TO STUD	END NAIL	(2) 16d COMMON
8. STUD TO SOLE PLATE	TOENAIL END NAIL	(4) 8d COMMON (2) 16d COMMON
9. DOUBLE STUDS	FACE NAIL	16d COMMON @ 24"OC
10. DOUBLE TOP PLATES	TYPICAL FACE NAIL LAP SPLICE	16d COMMON @ 16"OC (8) 16d COMMON, UNO
11. BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE	TOENAIL	(3) 8d COMMON
12. RIM JOIST TO TOP PLATE	TOENAIL	8d COMMON @ 6"OC
13. TOP PLATES, LAPS & INTERSECTIONS	FACE NAIL	(2) 16d COMMON
14. CONTINUOUS HEADER, TWO PIECES	16"OC ALONG EDGE	16d COMMON
15. CEILING JOISTS TO PLATE	TOENAIL	(3) 8d COMMON
16. CONTINUOUS HEADER TO STUD	TOENAIL	(4) 8d COMMON
17. CEILING JOISTS, LAPS OVER PARTITIONS	FACE NAIL	(3) 16d COMMON, MINIMUM
18. CEILING JOISTS TO PARALLEL RAFTERS	FACE NAIL	(3) 16d COMMON, MINIMUM
19. RAFTER TO PLATE	TOENAIL	(3) 10d COMMON
20. 1" DIAGONAL BRACE TO EACH STUD AND PLATE	FACE NAIL	(2) 8d COMMON
21. 1"x6" SHEATHING TO EACH BEARING WALL	FACE NAIL	(2) 8d COMMON
22. 1"x8" SHEATHING AND WIDER TO EACH BEARING	FACE NAIL	(3) 8d COMMON
23. BUILT-UP CORNER STUDS	16"OC FACE NAIL	16d COMMON
24. BUILT-UP GIRDER & BEAMS	FACE NAIL AT T&B STAGGERED ON OPPOSITE SIDES FACE NAIL AT ENDS & AT EACH SPLICE	20d COMMON @ 32"OC (2) 20d COMMON
25. 2" PLANKS	AT EACH BEARING	(2) 16d COMMON
26. COLLAR TIE TO RAFTER	FACE NAIL	(3) 10d COMMON
27. JACK RAFTER TO HIP	TOENAIL FACE NAIL	(3) 10d COMMON (2) 16d COMMON
28. ROOF RAFTER TO 2x RIDGE BEAM	TOENAIL FACE NAIL	(2) 16d OR (3) 10d COMMON (2) 16d COMMON
29. JOIST TO BAND JOIST	FACE NAIL	(3) 16d COMMON
30. LEDGER STRIP	FACE NAIL	(3) 16d COMMON
31. WOOD STRUCTURAL PANELS AND PARTICLEBOARD (NAILS SPACED @ 6"OC EDGES & 12"OC FIELD):	1/2" AND LESS 19/32" TO 3/4" 7/8" TO 1 1/4"	6d COMMON 8d COMMON 10d COMMON
SINGLE FLOOR (COMBINATION SUBFLOOR-UNDERLAYMENT TO FRAMING):	3/4" AND LESS 7/8" TO 1" 1 1/8" TO 1 1/4"	6d DEFORMED SHANK 8d DEFORMED SHANK 10d COMMON
32. PANEL SIDING (TO FRAMING). (USE CORROSION-RESISTANT SIDING OR CASING NAIL) (NAILS SPACED 6"OC EDGES & 12"OC FIELD)	1/2" AND LESS 5/8"	6d 8d
33. FIBERBOARD SHEATHING. (NAILS SPACED @ 3"OC EDGES & 6"OC FIELD)	1/2" 25/32"	1 1/2" GALV. ROOFING NAIL 1 3/4" GALV. ROOFING NAIL
34. INTERIOR PANELING. (NAILS SPACED @ 6"OC EDGES & 12"OC FIELD)	1/4" 3/8"	4d CASING OR FINISH 6d CASING OR FINISH

SCHEDULE NOTES:
1. NAILING PER SCHEDULE ABOVE IS TO BE USED WHERE NAILING IS NOT SPECIFIED ON PLANS OR DETAILS. NAILING PER PLANS & DETAILS SUPERSEDES
2. COMMON OR BOX NAILS MAY BE USED EXCEPT WHERE OTHERWISE NOTED.

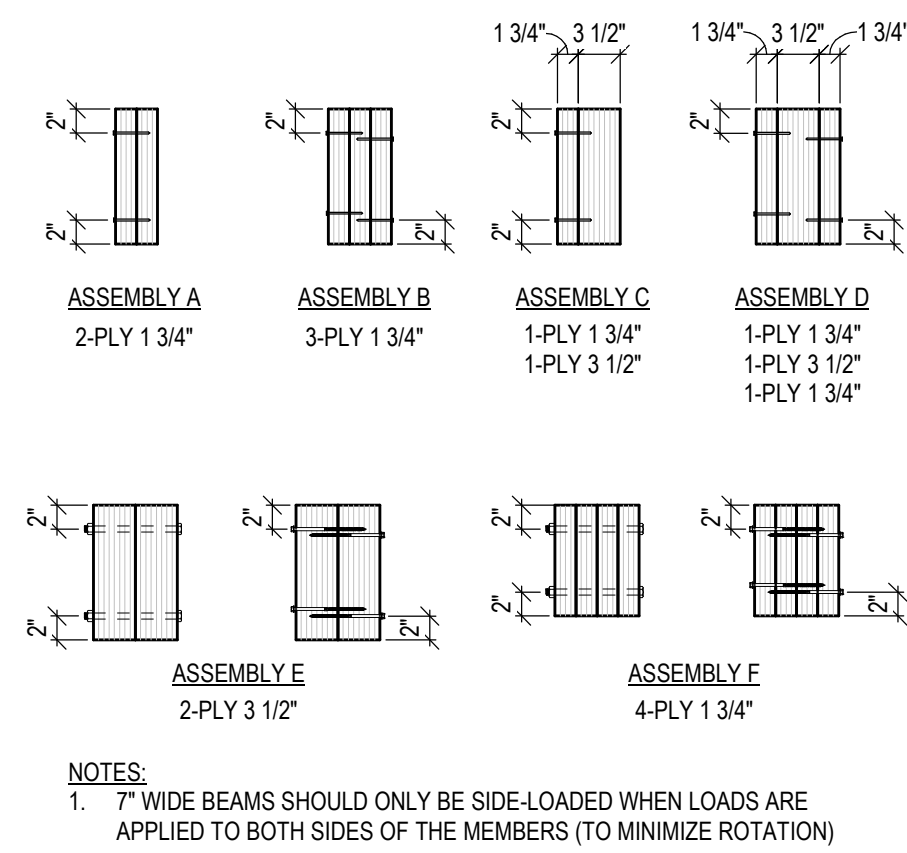
STRUCTURAL STEEL NOTES

- FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM WITH THE AISC (AMERICAN INSTITUTE OF STEEL CONSTRUCTION), "MANUAL OF STEEL CONSTRUCTION", LATEST EDITION.
- ALL STEEL DETAILS AND CONNECTIONS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE AISC "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS", LATEST EDITION.
- USE F3125 GRADE 325 BOLTS UNLESS NOTED OTHERWISE. BOLTS SHALL BE 3/4" Ø UNLESS SPECIFICALLY INDICATED OTHERWISE ON PLANS OR DETAILS.
- SPLICES SHALL BE ALLOWED ONLY AT LOCATIONS SPECIFICALLY INDICATED ON THE STRUCTURAL DRAWINGS UNLESS APPROVED OTHERWISE BY THE ENGINEER.
- OVERSIZED OR SLOTTED HOLES SHALL NOT BE USED FOR ANY CONNECTIONS UNLESS SPECIFICALLY INDICATED OTHERWISE BY THE ENGINEER.
- BEAM AND GIRDER CONNECTIONS SHALL BE AS NOTED ON PLANS AND IN DETAILS.
- PROVIDE HOLES IN ALL STEEL AS REQUIRED TO PREVENT ANY ACCUMULATION OF WATER DURING ERECTION. ALL PENETRATIONS THROUGH MAIN MEMBERS SHALL NOT EXCEED 1-1/2" IN DIAMETER AND SHALL BE GROUND SMOOTH.
- CUTS, HOLES, COPING, ETC. REQUIRED FOR WORK OF OTHER TRADES SHALL BE SHOWN ON THE SHOP DRAWINGS AND MADE IN THE SHOP. CUTS OR BURNING OF HOLES IN STRUCTURAL STEEL MEMBERS IN THE FIELD WILL NOT BE PERMITTED.
- PROVIDE ANY NECESSARY TEMPORARY BRACING OR GUYS TO PROVIDE LATERAL SUPPORT OF THE BUILDING UNTIL PERMANENT FRAME IS COMPLETELY INSTALLED.
- STRUCTURAL STEEL FRAMING SHALL BE TRUE AND PLUMB BEFORE CONNECTIONS ARE FINALLY BOLTED OR WELDED.

MAXIMUM UNIFORM LOAD APPLIED TO EITHER OUTSIDE MEMBER (PLF)

ASSEMBLY MARK	NAILED CONNECTION ¹		THRU-BOLTED CONNECTION ³		SIMPSON SDS STRUCTURAL WOOD SCREW CONNECTION		MITEK USP WS STRUCTURAL WOOD SCREW CONNECTION	
	(2) ROWS 10d (0.128" Ø x 3" OR 0.131" x 3") NAIL @ 12"OC ²	(3) ROWS 10d (0.128" Ø x 3" OR 0.131" x 3") NAIL @ 12"OC	(2) ROWS 1/2" Ø BOLTS @ 24"OC ⁴	(2) ROWS 1/2" Ø BOLTS @ 16"OC	(2) ROWS 1/4" Ø x 3 1/2" SCREWS @ 24"OC	(2) ROWS 1/4" Ø x 3 1/2" SCREWS @ 16"OC	(2) ROWS 1/4" Ø x 3 1/2" SCREWS @ 24"OC	(2) ROWS 1/4" Ø x 3 1/2" SCREWS @ 16"OC
A	370	560	510	760	680	1,020	640	955
B	280 ⁵	420 ⁵	380	570	510 ⁵	765 ⁵	480 ⁵	720 ⁵
C	280	420	525	785	510	765	480	720
D	250 ⁵	370 ⁵	465	700	455 ⁵	680 ⁵	425 ⁵	640 ⁵
E	-	-	860	1,290	1,360 ^{5,6}	2,040 ^{5,6}	-	-
F	-	-	340	510	555 ^{5,6}	835 ^{5,6}	475 ^{5,6}	715 ^{5,6}

NOTES:
1. NAILED CONNECTION VALUES MAY BE DOUBLED FOR 6"OC OR TRIPLED FOR 4"OC NAIL SPACING.
2. FOR BEAMS UP TO 14" DEEP, MAXIMUM.
3. A307 BOLTS WITH WASHERS REQUIRED. BOLT HOLES TO BE 9/16" Ø MAXIMUM.
4. BOLTED OR SCREWED CONNECTION VALUES MAY BE DOUBLED FOR 12"OC SPACING.
5. ASSEMBLY REQUIRES FASTENER PLACEMENT ON BOTH SIDES. STAGGER FASTENERS ON THE SECOND FACE SO THEY FALL HALFWAY BETWEEN FASTENERS ON THE FIRST FACE.
6. 6" SCREWS REQUIRED.



2 MULTIPLE-PLY LVL CONNECTIONS FOR SIDE-LOADED BEAMS

SCALE: NTS

HEADER PLY NAILING SCHEDULE

HEADER SIZE	ROWS OF NAILS	SPACING w/ 0.162" Ø x 3 1/2" NAILS ¹	SPACING w/ 0.162" Ø x 3 1/2" NAILS ¹
2x4	(2) ROWS	16"OC	12"OC
2x6	(2) ROWS	16"OC	12"OC
2x8	(2) ROWS	16"OC	12"OC
2x10	(2) ROWS	16"OC	12"OC
2x12	(2) ROWS	16"OC	12"OC

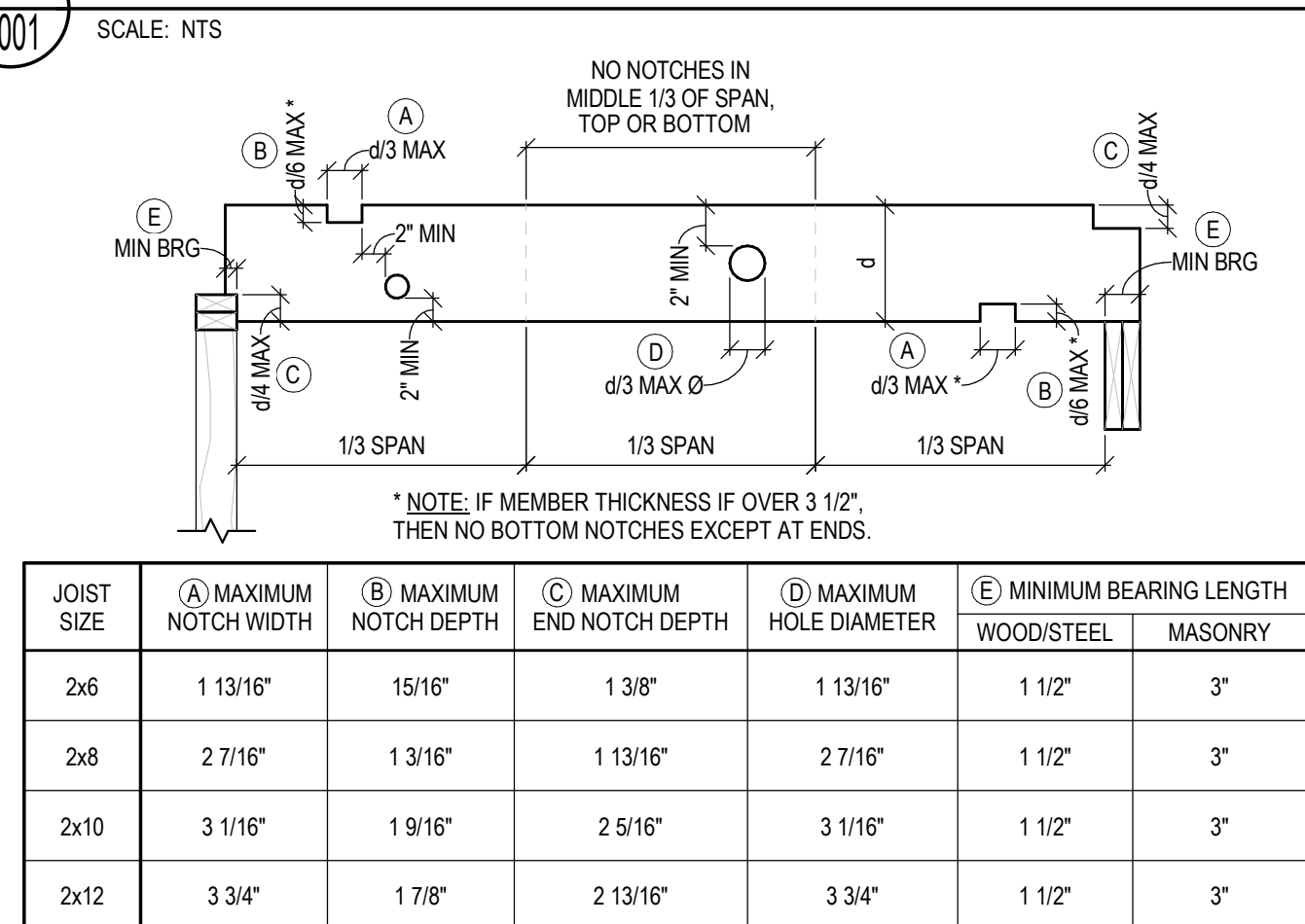
NOTES:
1. 2-PLY HEADERS MAY BE NAILED TOGETHER FROM ONE SIDE. 3-PLY HEADERS REQUIRE NAILS FROM BOTH SIDES. STAGGER FASTENERS ON THE SECOND FACE SO THEY FALL HALFWAY BETWEEN FASTENERS ON THE FIRST FACE.

TOP-LOADED LVL PLY FASTENING SCHEDULE

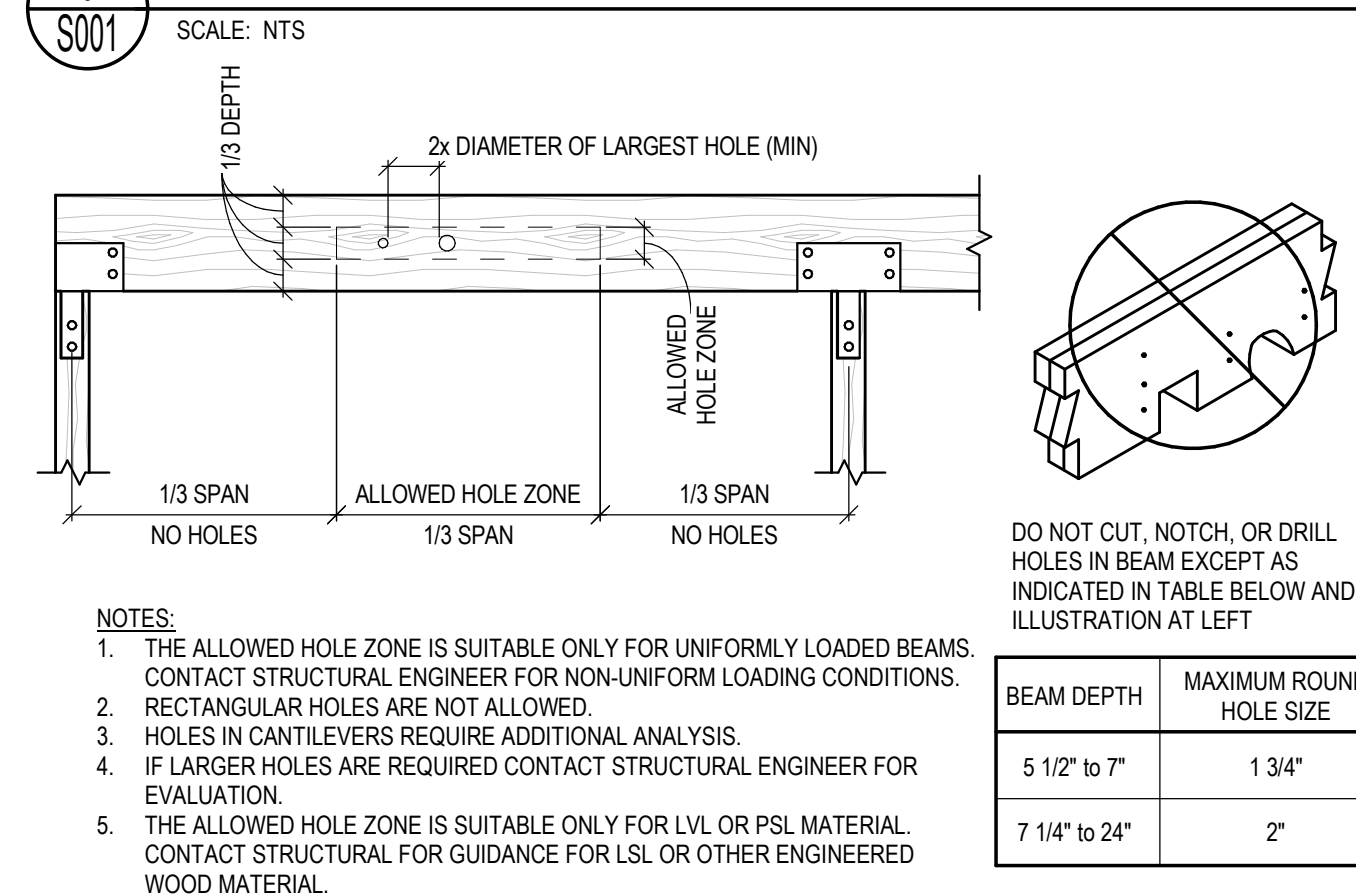
LVL WIDTH	PLY QUANTITY	FASTENER TYPE	FASTENER LENGTH	FASTENER PLACEMENT	ROWS OF FASTENERS	SPACING	
1 3/4"	2	10d (0.128" Ø TO 0.131" Ø) NAILS	3"	ONE FACE	3'	12"OC	
		12d TO 16d (0.148" Ø TO 0.162" Ø) NAILS SIMPSON SDS OR USP WS SCREWS	3 1/2"		2'	24"OC	
	3	10d (0.128" Ø TO 0.131" Ø) NAILS	3"	BOTH FACES ²	3'	12"OC	
			12d TO 16d (0.148" Ø TO 0.162" Ø) NAILS SIMPSON SDS OR USP WS SCREWS		3 1/4" TO 3 1/2"	2'	24"OC
		4	10d (0.128" Ø TO 0.131" Ø) NAILS	3"	ONE FACE (PER PLY)	3'	12"OC
			12d TO 16d (0.148" Ø TO 0.162" Ø) NAILS SIMPSON SDS OR USP WS SCREWS	3 1/4" TO 3 1/2"		2'	24"OC
	3 1/2"	2	SIMPSON SDS OR USP WS SCREWS	5" OR 6"	BOTH FACES ²	2	24"OC
				6 3/4"			
		1/2" Ø A307 THRU-BOLTS	5" OR 6"	ONE FACE ²	2	24"OC	
			8"				-

NOTES:
1. AN ADDITIONAL ROW OF NAILS IS REQUIRED WITH DEPTHS OF 14" OR GREATER.
2. STAGGER FASTENERS ON THE SECOND FACE SO THEY FALL HALFWAY BETWEEN FASTENERS ON THE FIRST FACE.
3. NAIL EACH PLY TO THE OTHER AND OFFSET NAIL ROWS BY 2" FROM ROWS IN THE PLY BELOW.

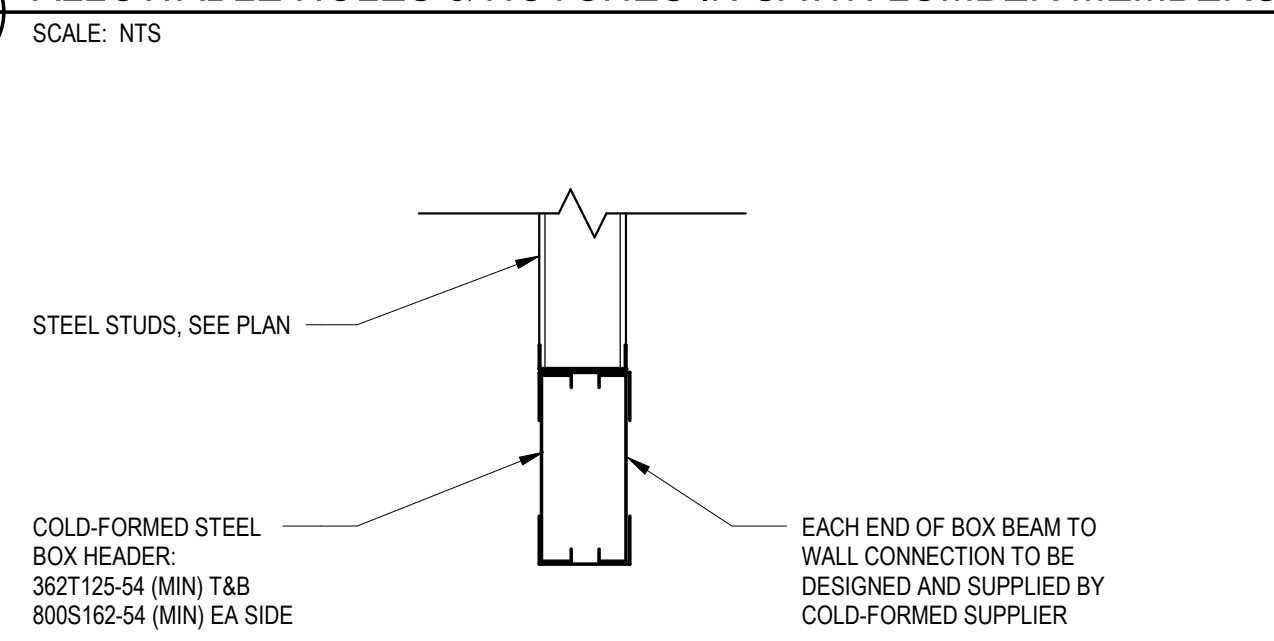
1 MULTIPLE-PLY SAWN LUMBER HEADER CONNECTIONS



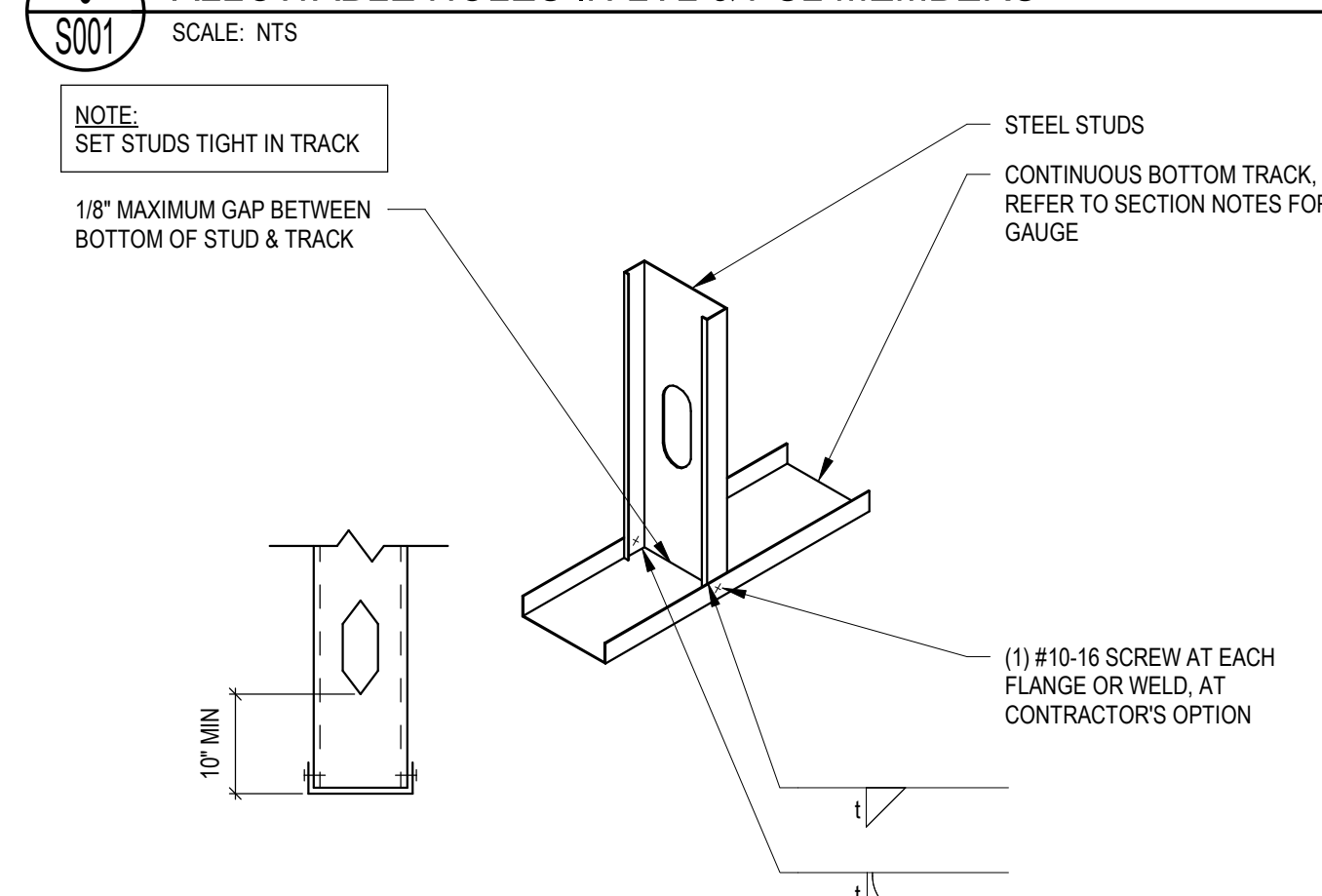
3 MULTIPLE-PLY LVL CONNECTION FOR TOP-LOADED BEAMS



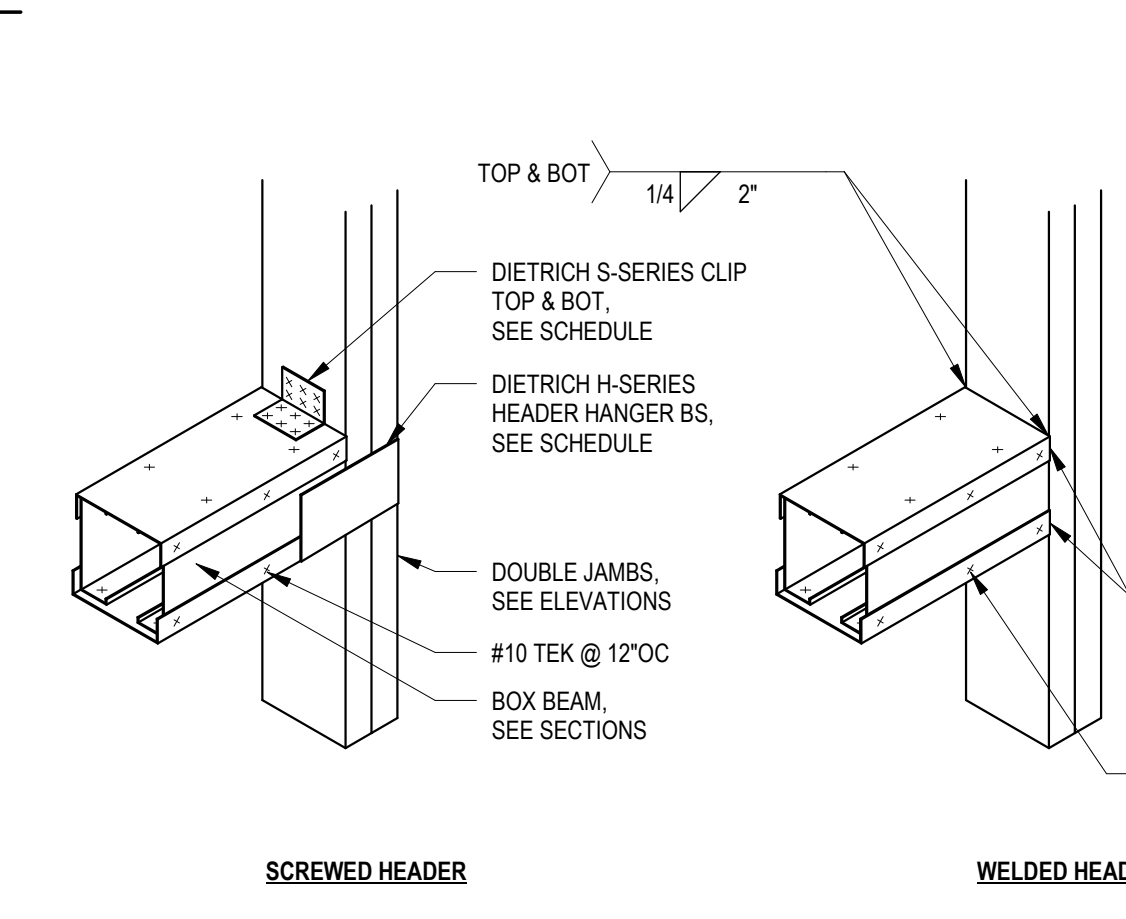
4 ALLOWABLE HOLES & NOTCHES IN SAWN LUMBER MEMBERS



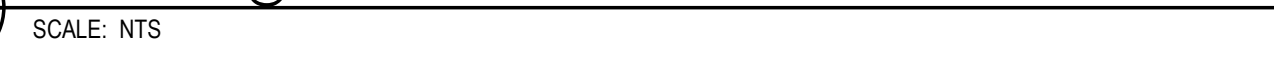
5 ALLOWABLE HOLES IN LVL & PSL MEMBERS



7 RECOMMENDED STUD TO TRACK CONNECTION



6 SUPPORT @ BASE OF WALL



8 RECOMMENDED BOXED HEADER CONNECTION



MASONRY LINTEL SCHEDULE

MARK	SIZE	CONFIGURATION	REMARKS
L1	(3) L4x3 1/2 x 3/8 (LLV)		FIELD VERIFY WALL THICKNESS AT LOCATION OF OPENING. IF WALL IS (4) WYTHES, PROVIDE ADDITIONAL ANGLE.
L2	(5) L4x3 1/2 x 3/8 (LLV)		FIELD VERIFY WALL THICKNESS AT LOCATION OF OPENING. IF WALL IS (6) WYTHES, PROVIDE ADDITIONAL ANGLE. IF ACTUAL WALL CONSTRUCTION IS CAVITY WALL, COORDINATE QUANTITY OF ANGLES AND CONFIGURATION w/ ENGINEER DURING DEMOLITION

SCHEDULE NOTES:
 1. REFER TO ARCHITECTURAL DRAWINGS FOR OPENING LOCATIONS, ELEVATIONS, & SIZES.
 2. PROVIDE 8" MINIMUM BEARING LENGTH FOR ALL LINTELS, UNO.
 3. PROVIDE MINIMUM OF 3 COURSES SOLID BRICK MASONRY BELOW LINTEL BEARING LENGTH (UNLESS NOTED OTHERWISE).

STEEL COLUMN SCHEDULE

MARK	SIZE	BASE PL	ANCHOR ROD EMBEDMENT	REMARKS
C1	3"Ø STD PIPE (SCHED. 40)	PL 1/2"x9"x0'-9" w/ (4) 1/2" Ø EPOXY BOLTS	6" EMBED	WELD BASE PLATE TO TOP OF EXISTING STEEL BEAM*
C2	HSS5x5x1/4	PL 3/4"x6"x0'-11"	-	WELD BASE PLATE TO TOP OF EXISTING STEEL BEAM*

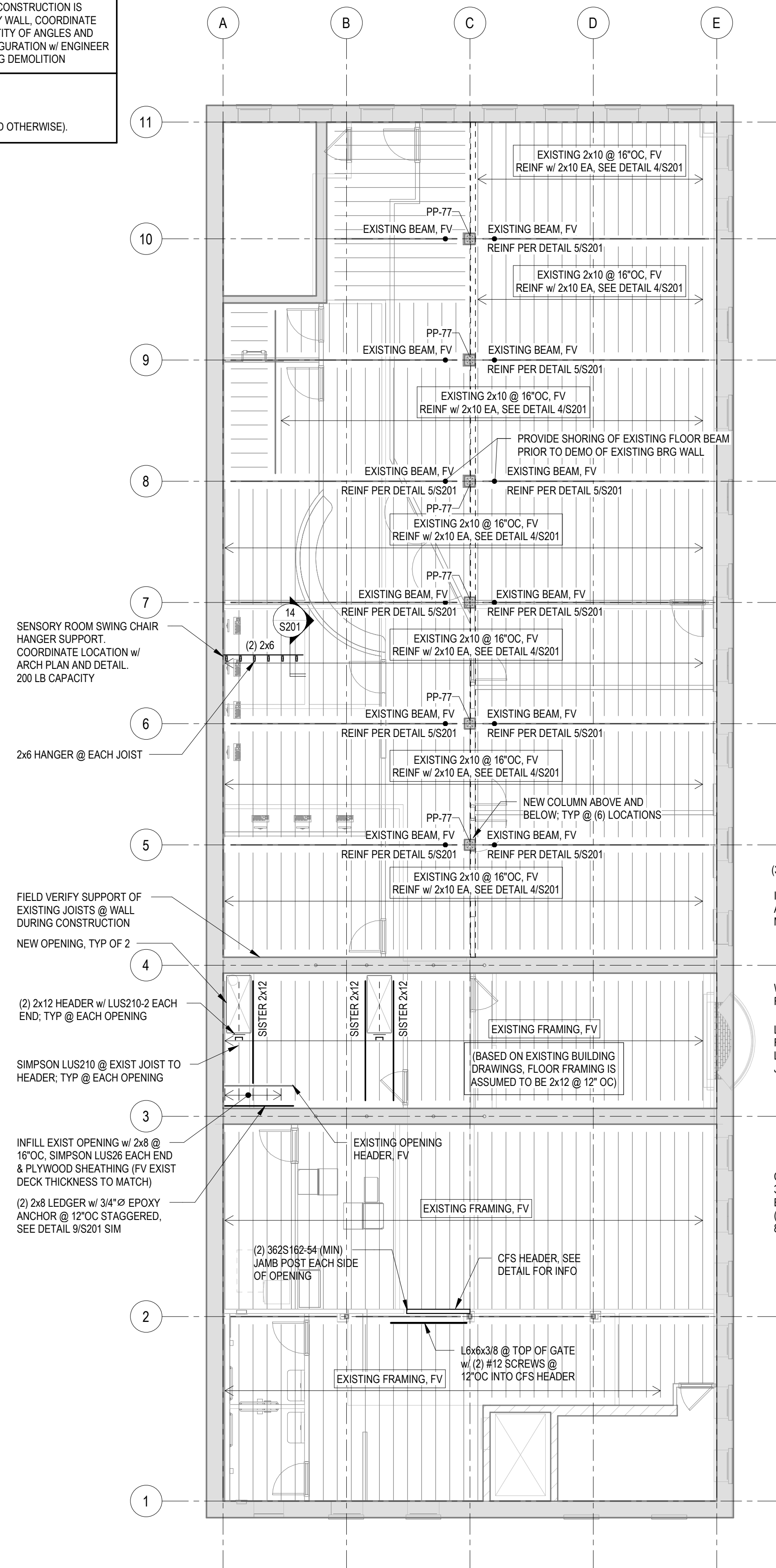
*ALTERNATE CONNECTION: DRILL HOLES IN EXISTING BEAM FLANGES FOR BOLT HOLES, USE (4) 3/4" DIAMETER BOLTS

WOOD POST SCHEDULE

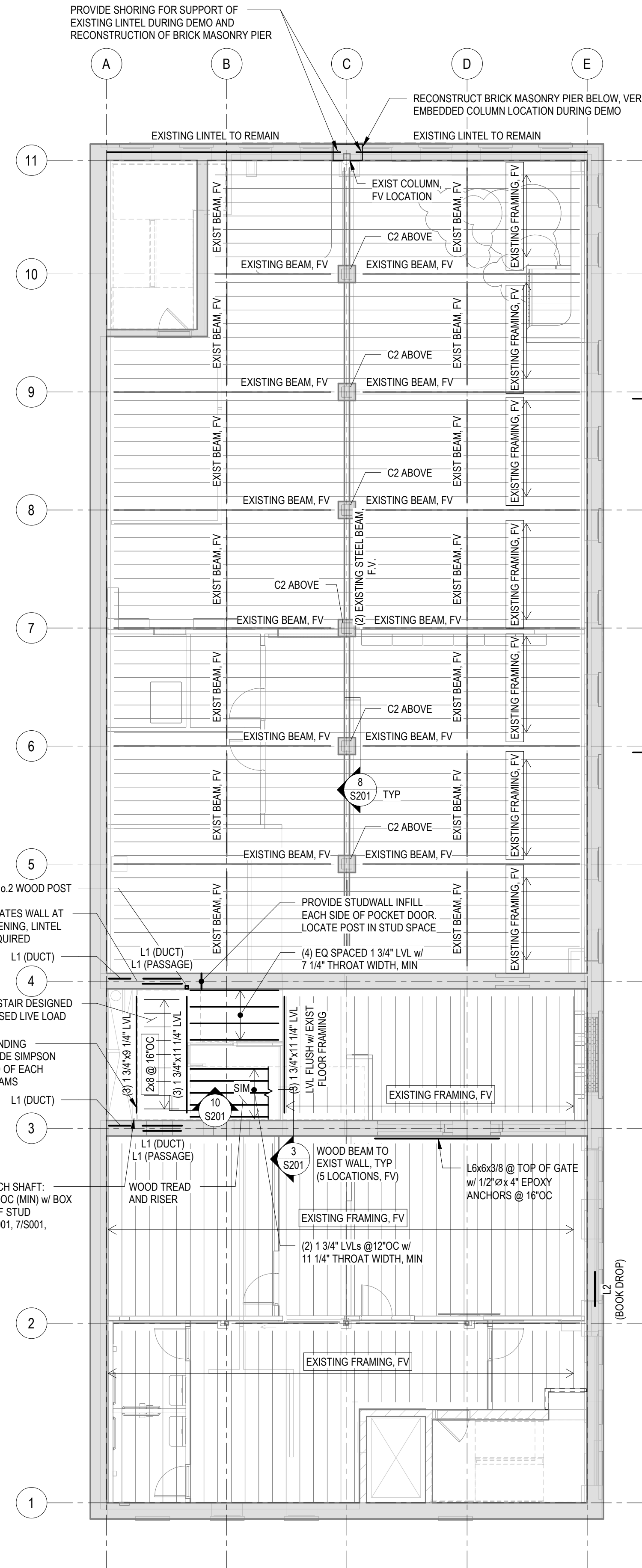
MARK	TYPE	POST BASE AT CONCRETE FLOOR OR FOUNDATION	REMARKS
PP-77	7"x7" PSL	SIMPSON BC80 (OR EQUAL)	ANCHOR THROUGH FLOOR TO BEAM BELOW - ALIGN WITH COLUMN LOCATION BELOW

LEGEND:
 WP = WOOD STUD POST
 TP = TIMBER POST
 PP = PARALLEL STRAND LUMBER (PSL) POST
 PT = PRESERVATIVE TREATED LUMBER
 SPF = SPRUCE-PINE-FIR
 DFL = DOUGLAS FIR-LARCH
 SP = SOUTHERN PINE

SCHEDULE NOTES:
 1. PROVIDE MATCHING POSTS IN WOOD FLOOR LEVELS BELOW BEARING POINT OF STRUCTURAL MEMBER DOWN TO CONCRETE FOUNDATION OR PODIUM LEVEL. PROVIDE VERTICAL BLOCKING (OR "SQUASH" BLOCKING) IN FLOOR TRUSS SPACE MATCHING POST SIZE INDICATED, ALIGNED WITH POSTS ABOVE AND BELOW.

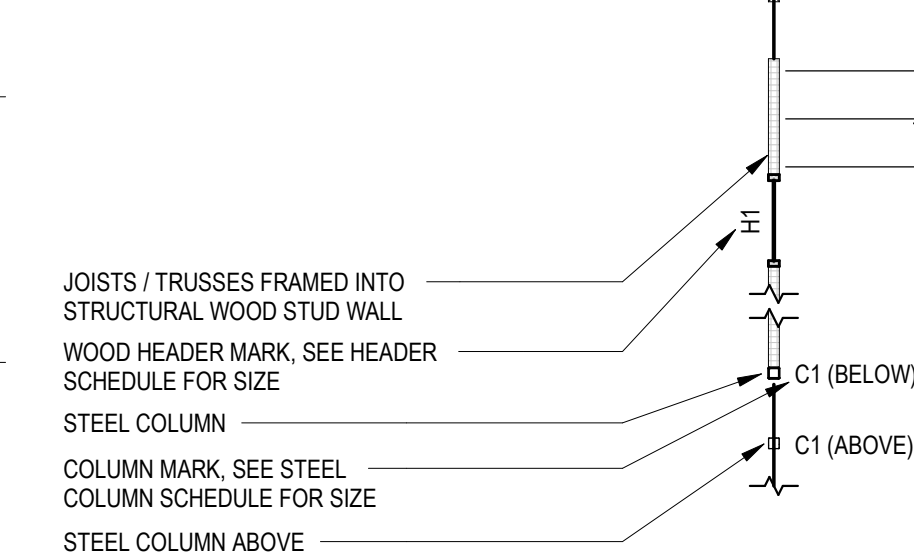
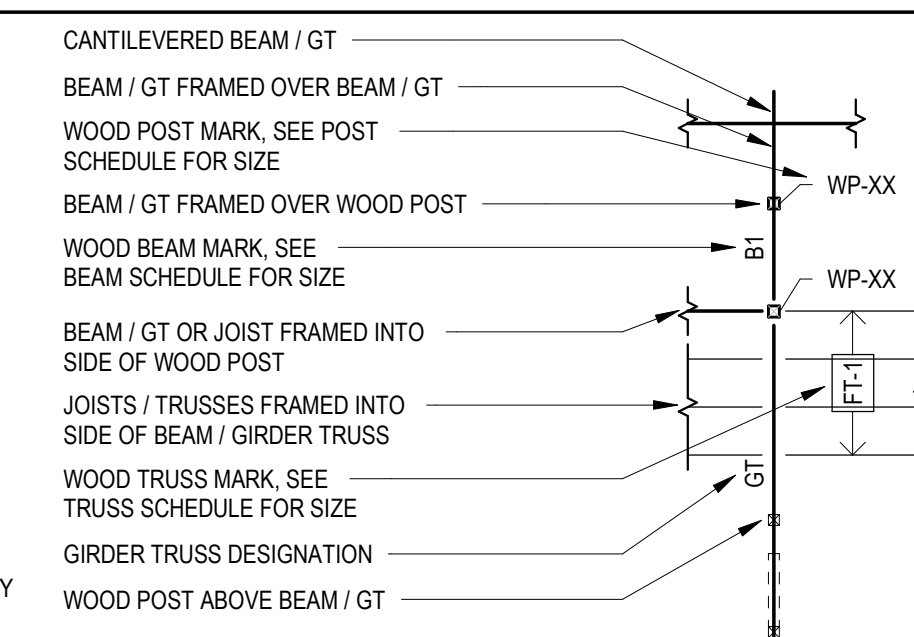


2 THIRD FLOOR FRAMING PLAN
 SCALE: 1/8" = 1'-0"

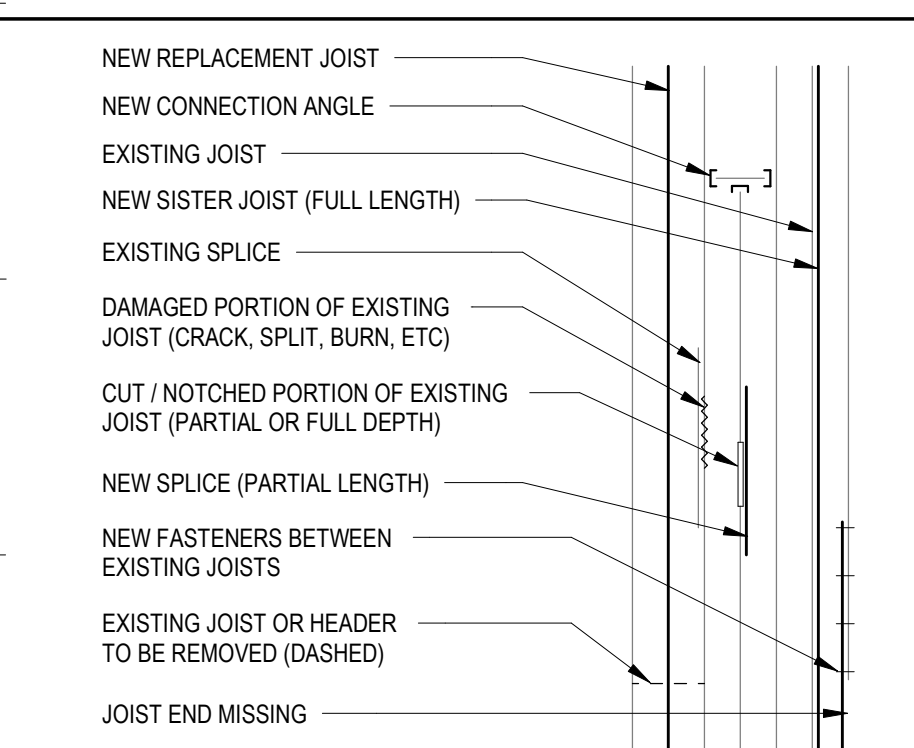


1 SECOND FLOOR FRAMING PLAN
 SCALE: 1/8" = 1'-0"

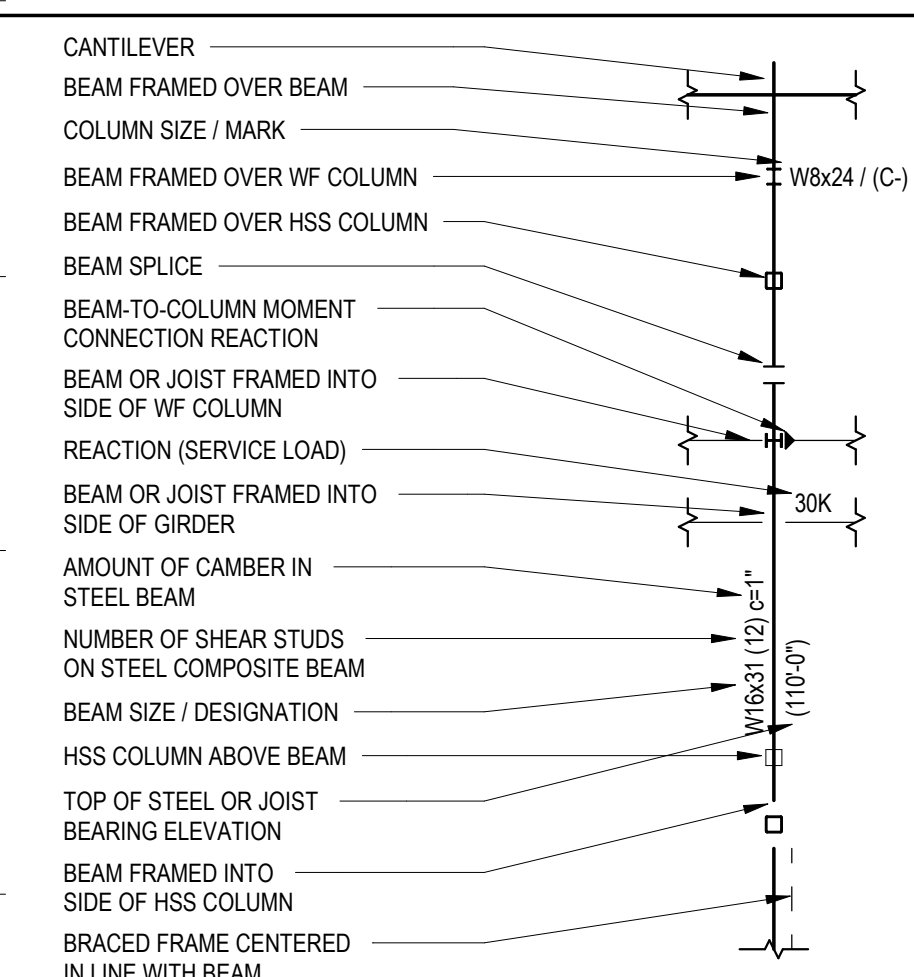
WOOD FRAMING LEGEND



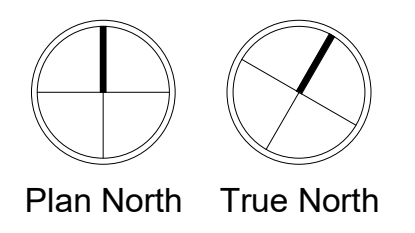
WOOD JOIST REPAIR & REINF LEGEND



STEEL FRAMING LEGEND



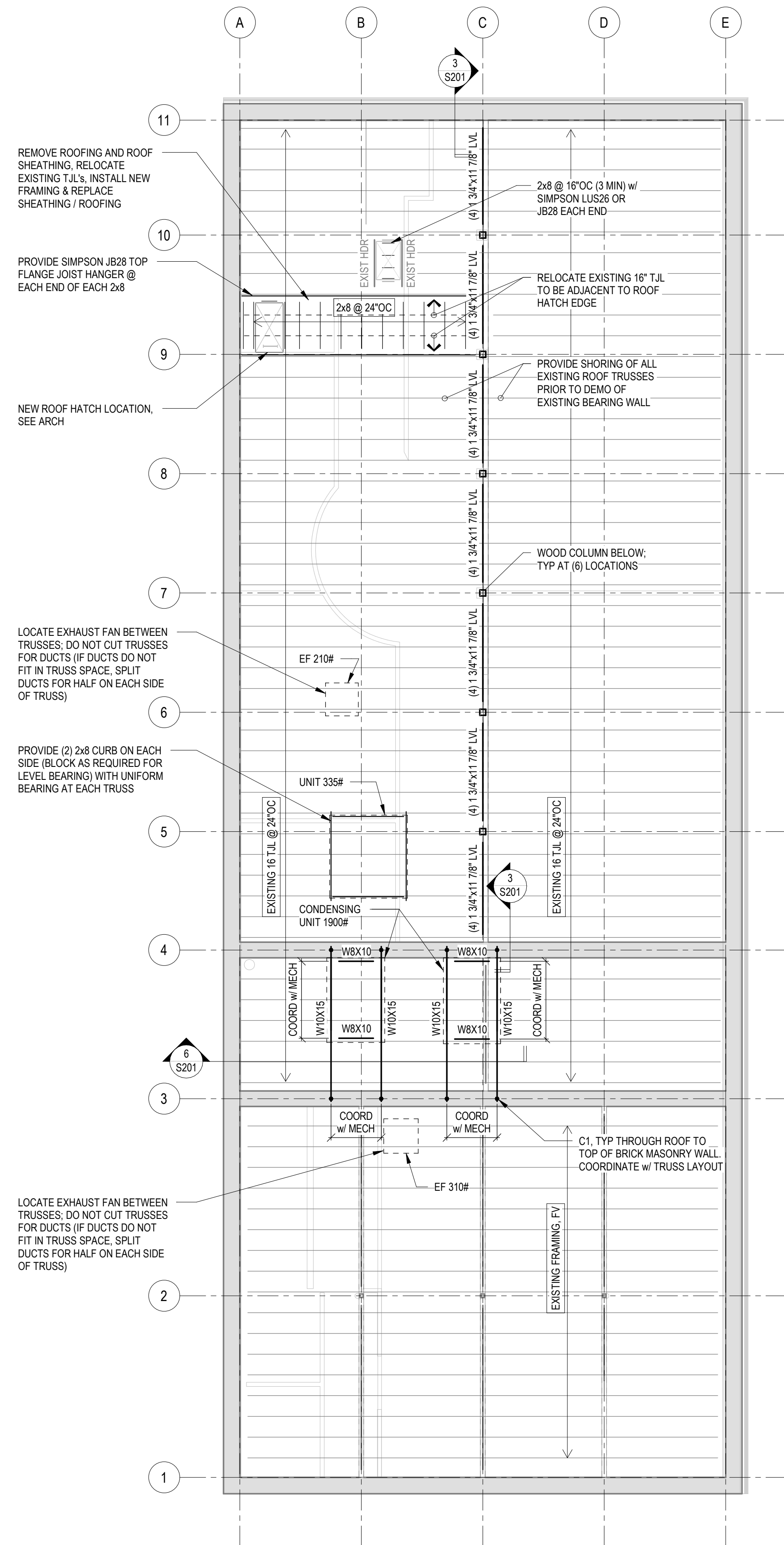
FRAMING PLANS



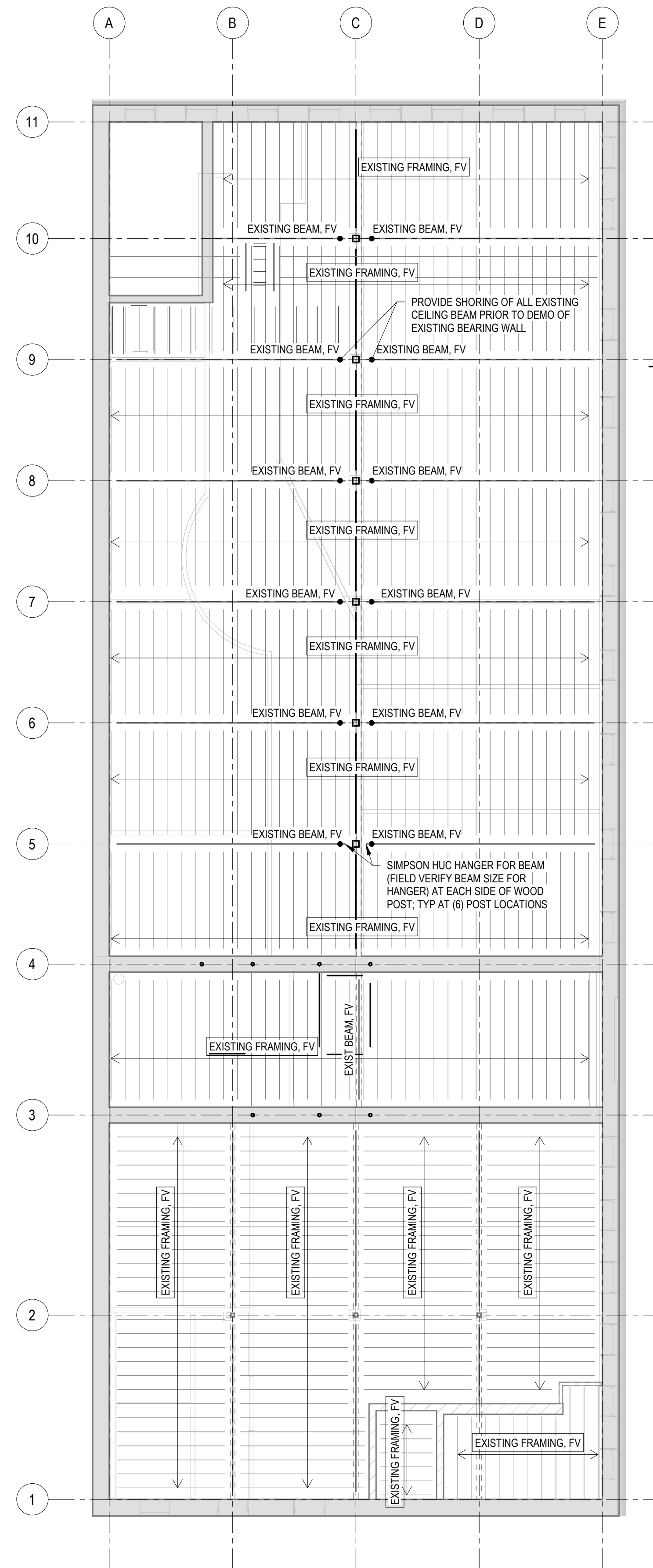
STEEL COLUMN SCHEDULE

MARK	SIZE	BASE PL	ANCHOR ROD EMBEDMENT	REMARKS
C1	3" Ø STD PIPE (SCHED. 40)	PL 1/2"x9"x0-9" w/ (4) 1/2" Ø EPOXY BOLTS	6" EMBED	WELD BASE PLATE TO TOP OF EXISTING STEEL BEAM*
C2	HSS5x5x1/4	PL 3/4"x6"x0-11"	-	WELD BASE PLATE TO TOP OF EXISTING STEEL BEAM*

*ALTERNATE CONNECTION: DRILL HOLES IN EXISTING BEAM FLANGES FOR BOLT HOLES, USE (4) 3/4" DIAMETER BOLTS

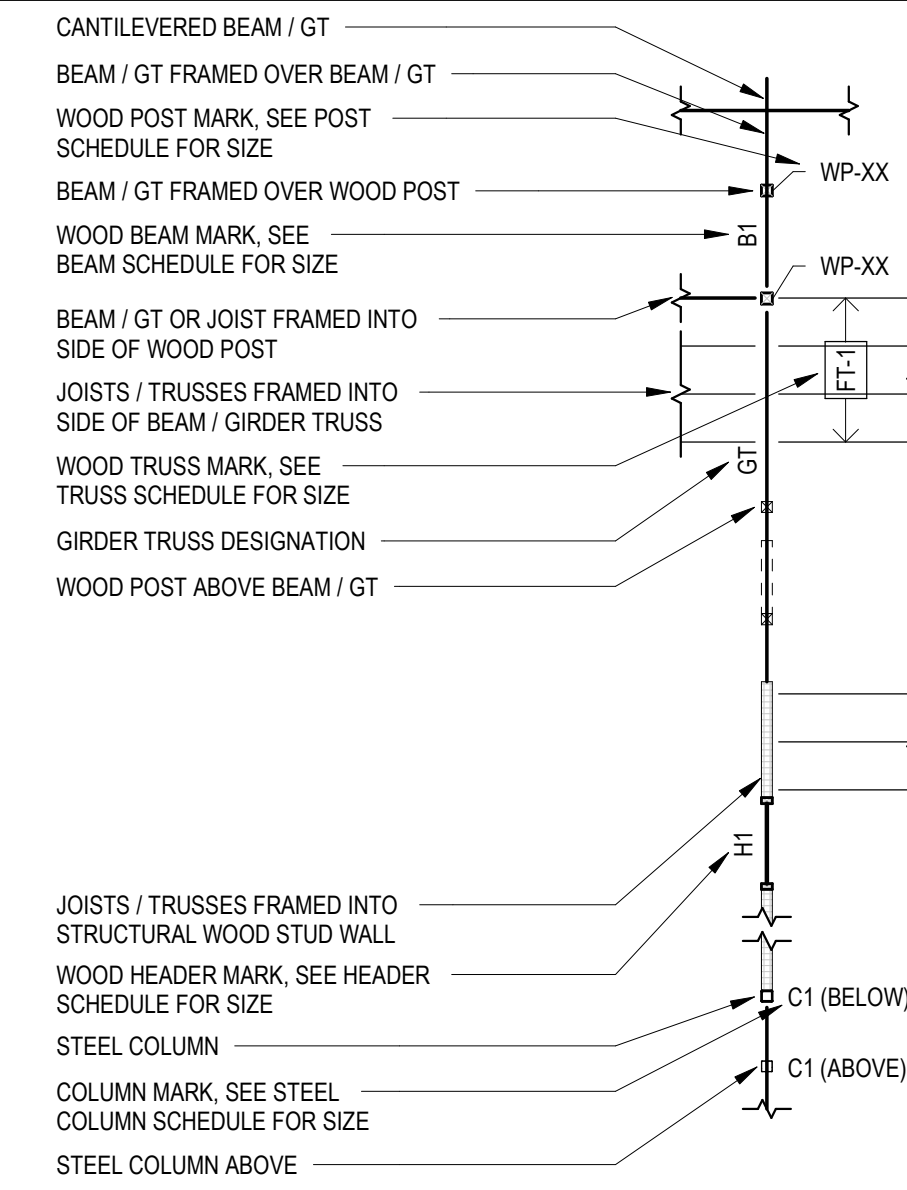


2 ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"

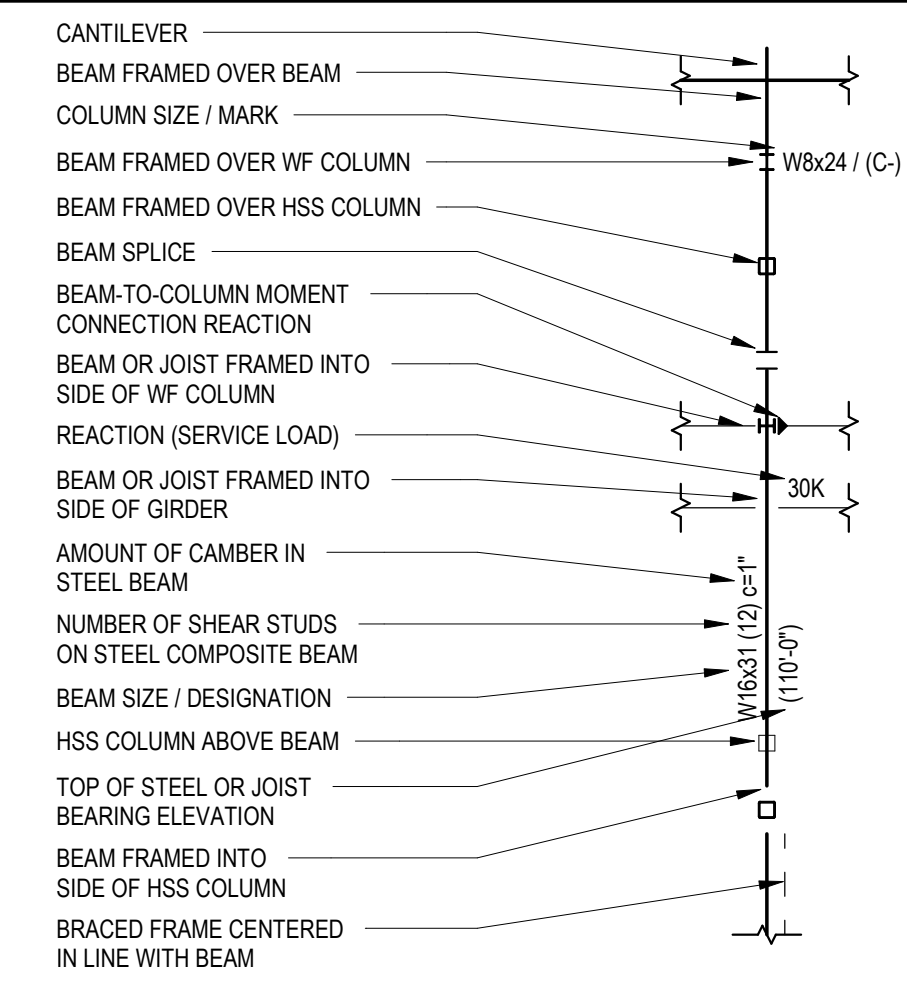


1 CEILING JOIST FRAMING PLAN
SCALE: 1/8" = 1'-0"

WOOD FRAMING LEGEND



STEEL FRAMING LEGEND



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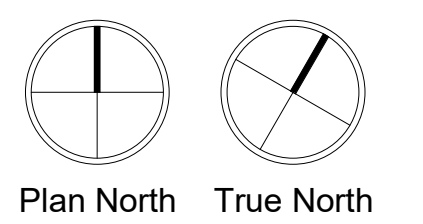
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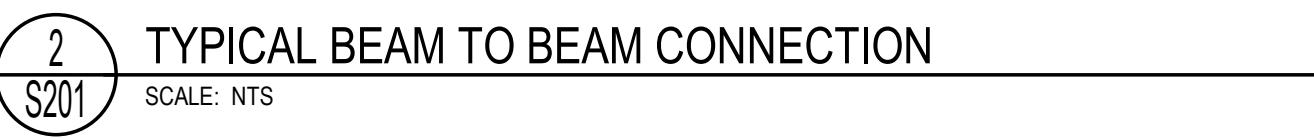
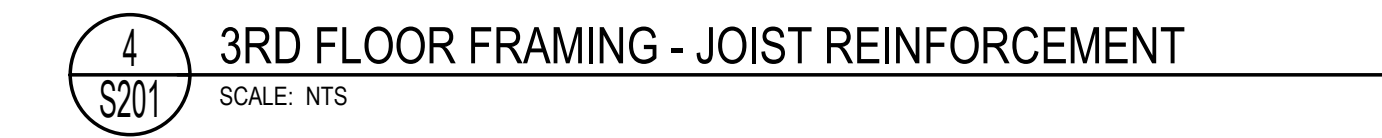
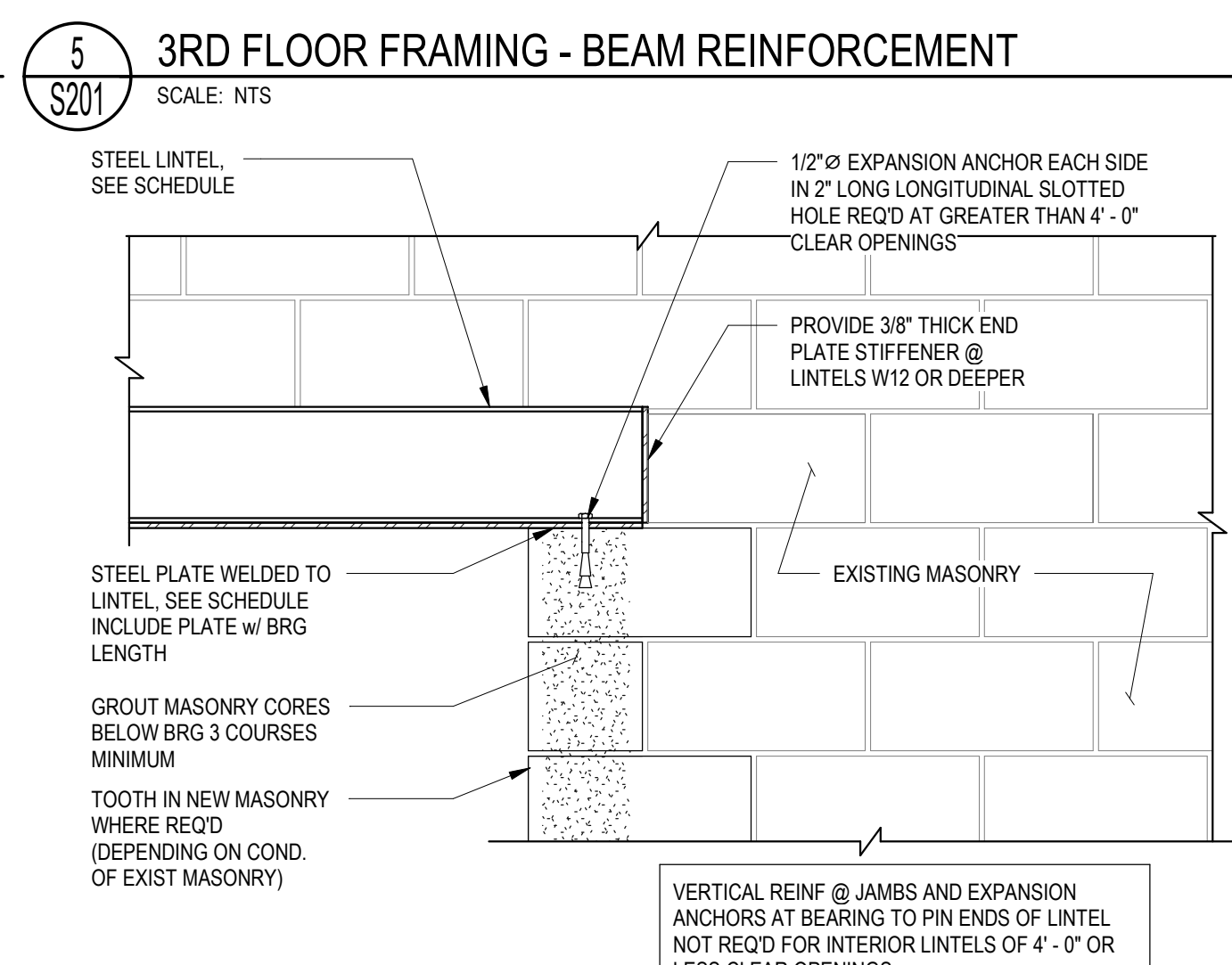
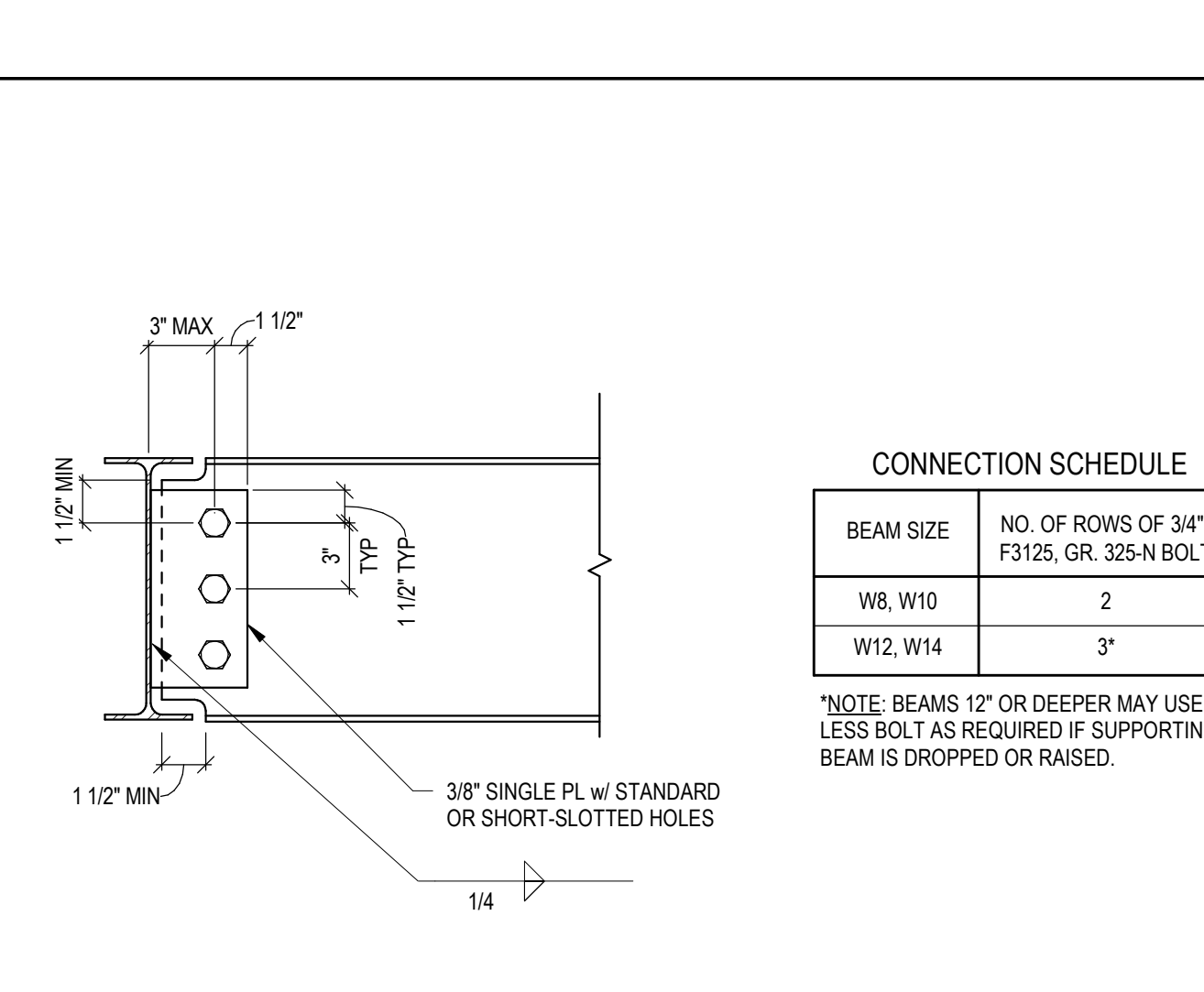
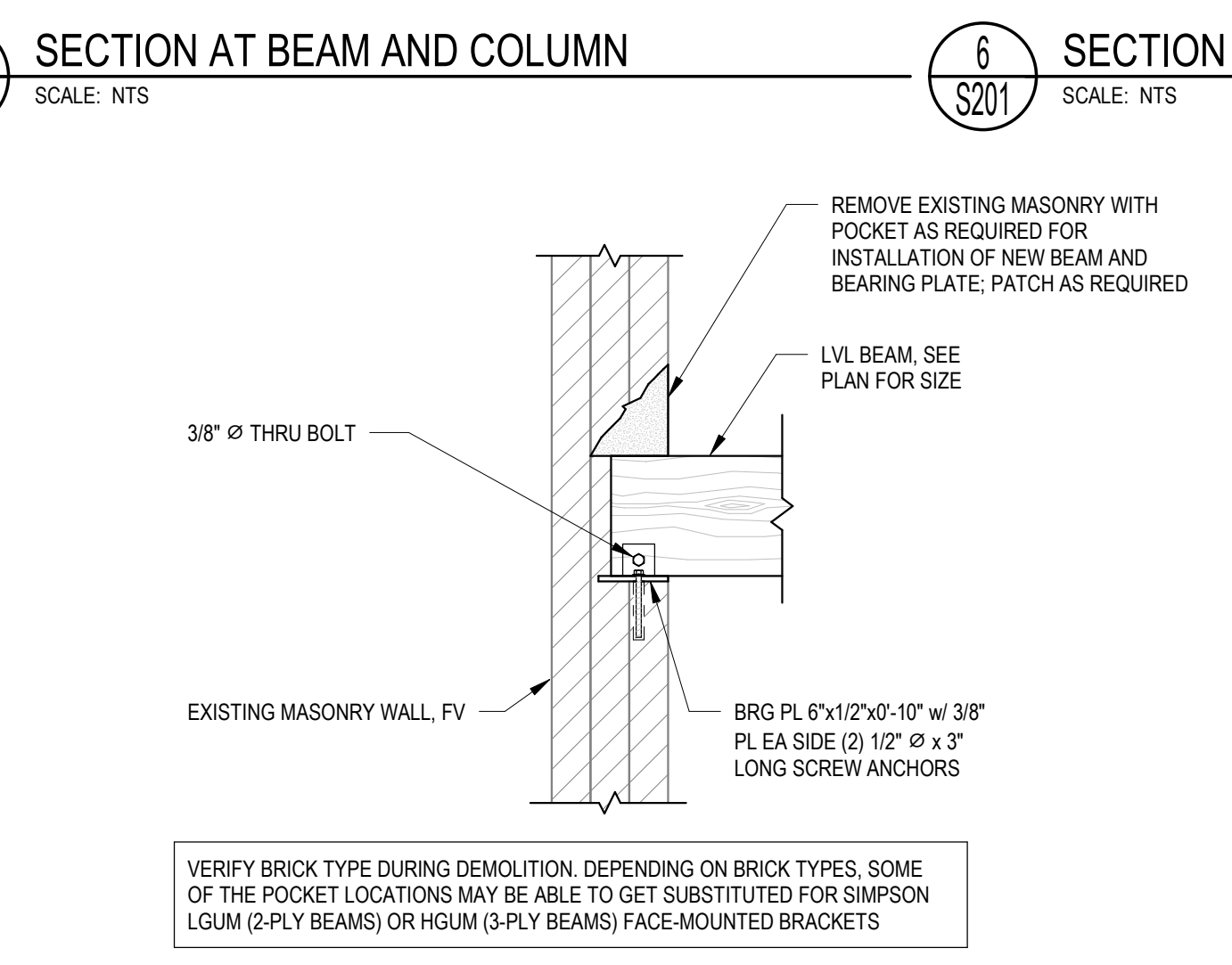
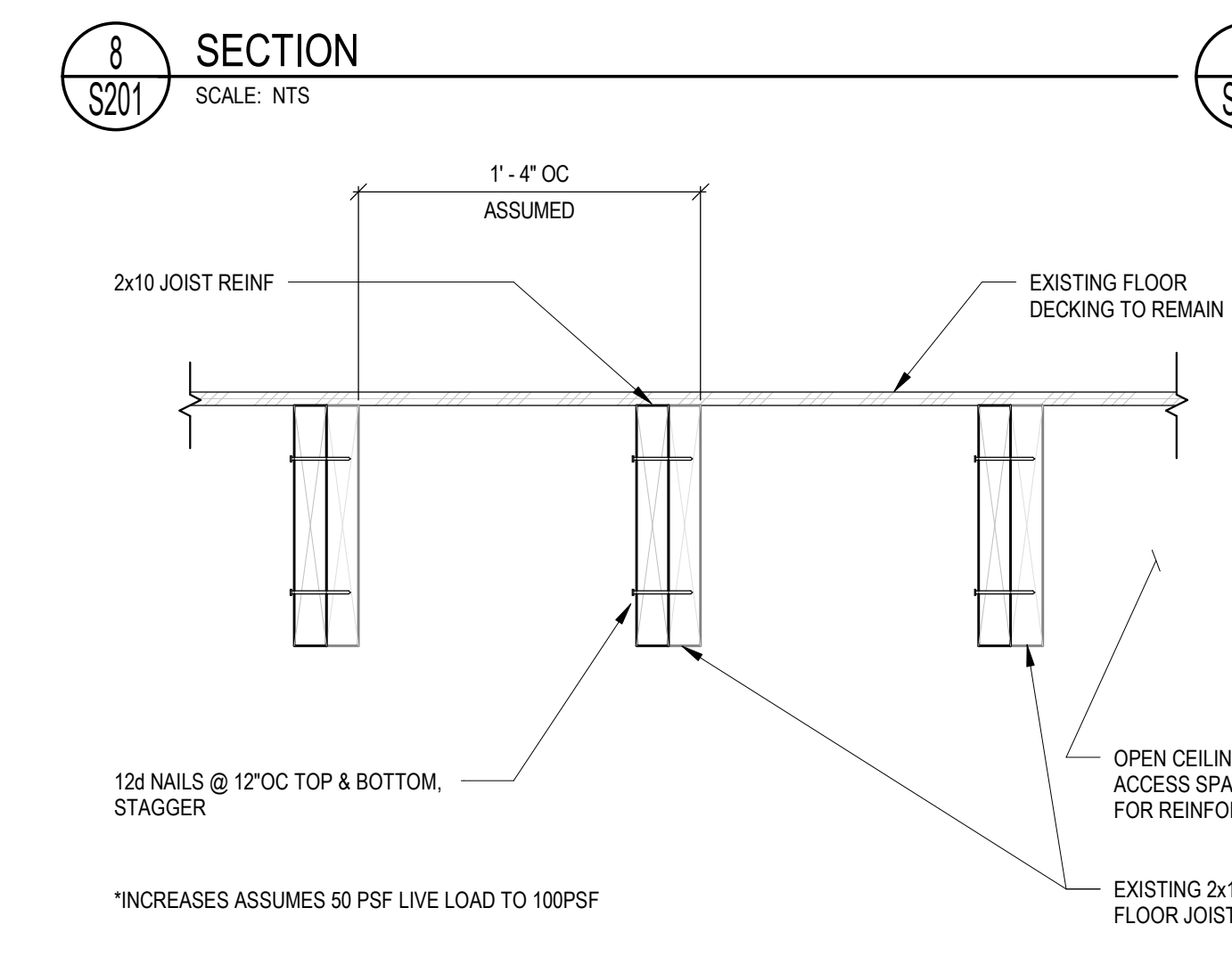
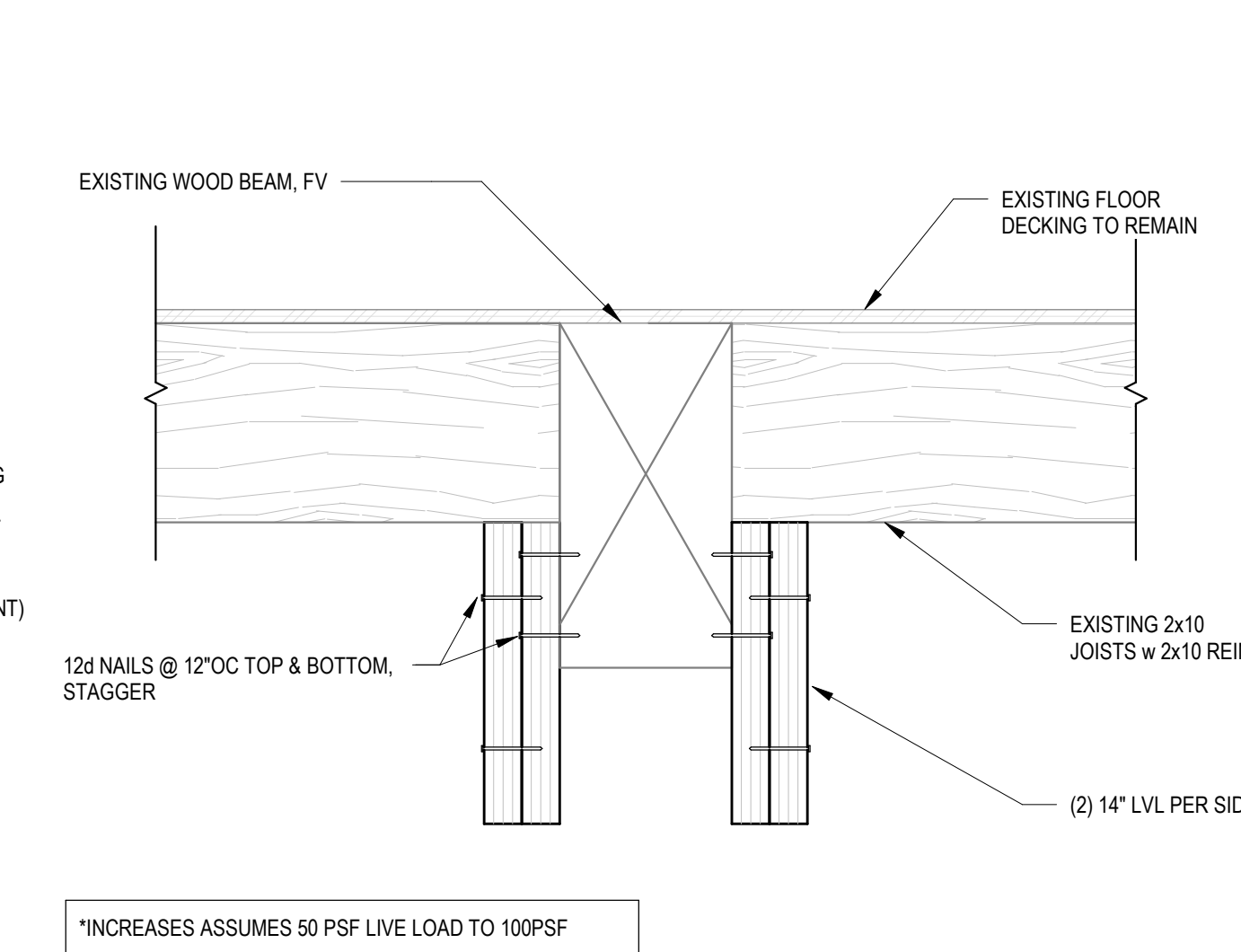
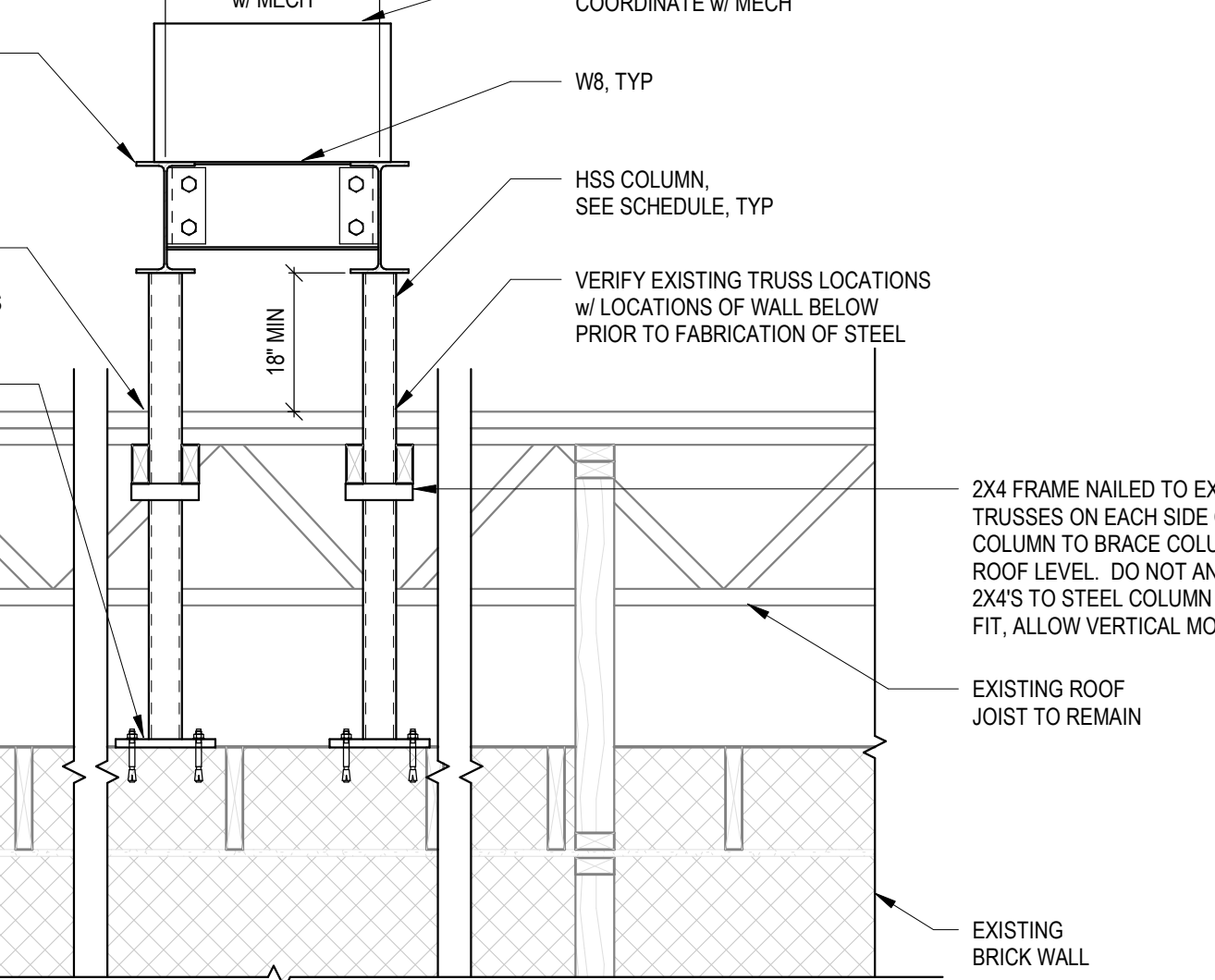
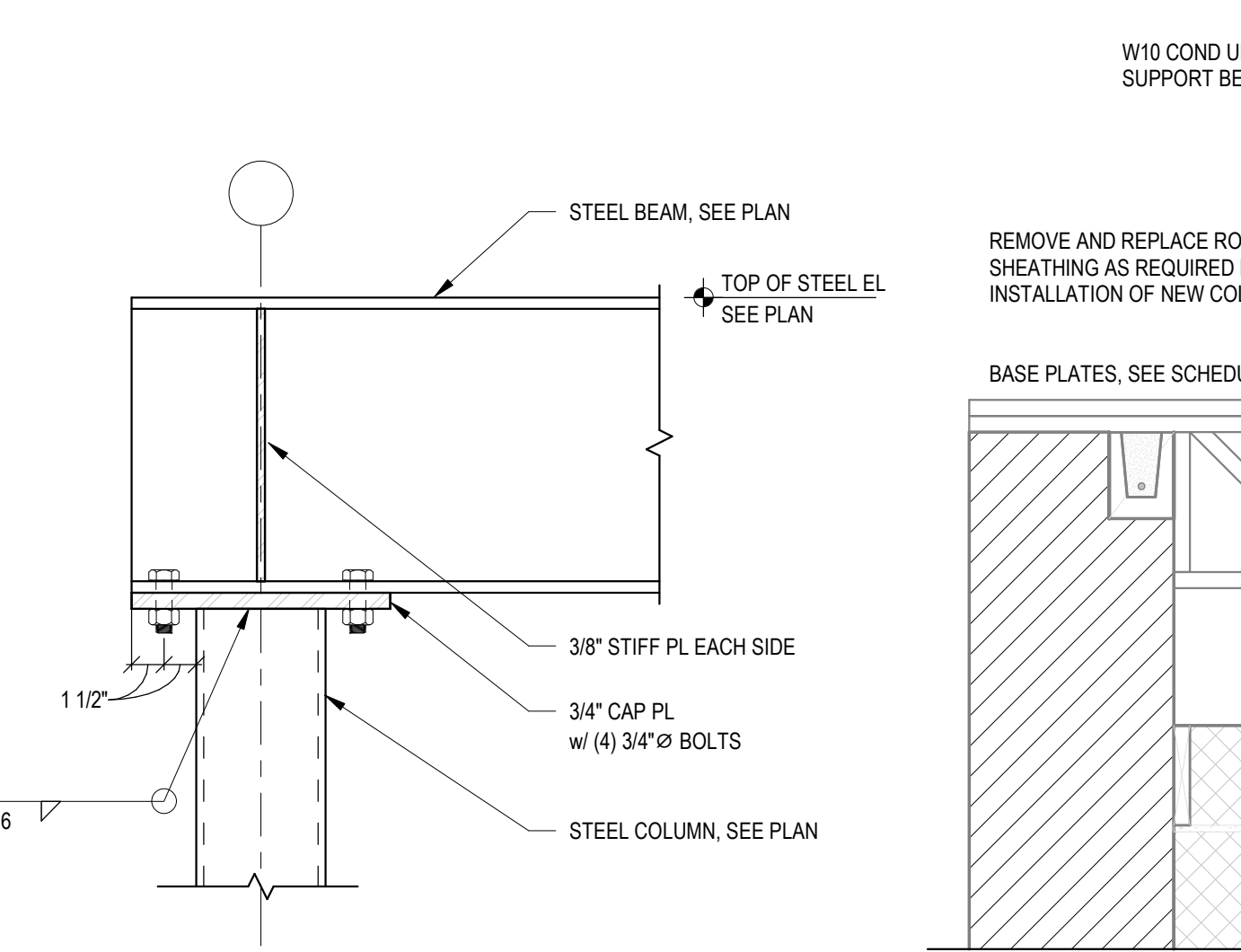
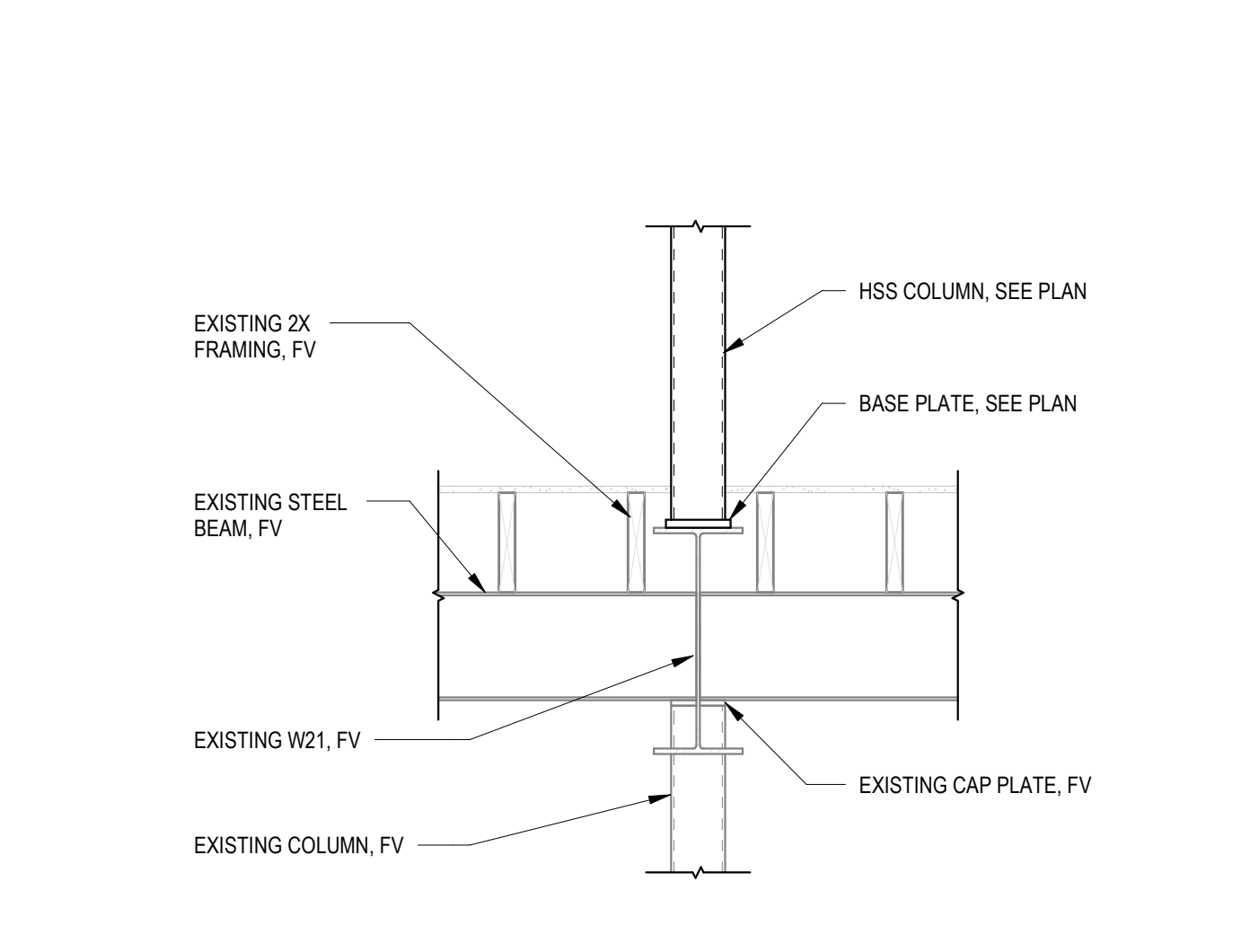
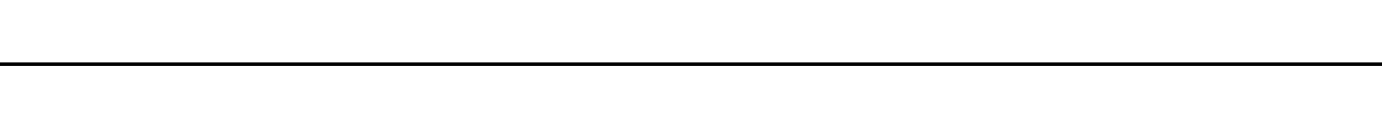
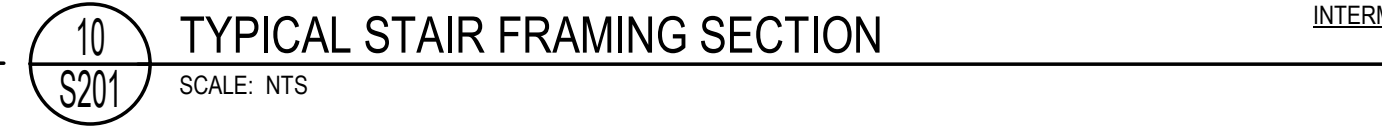
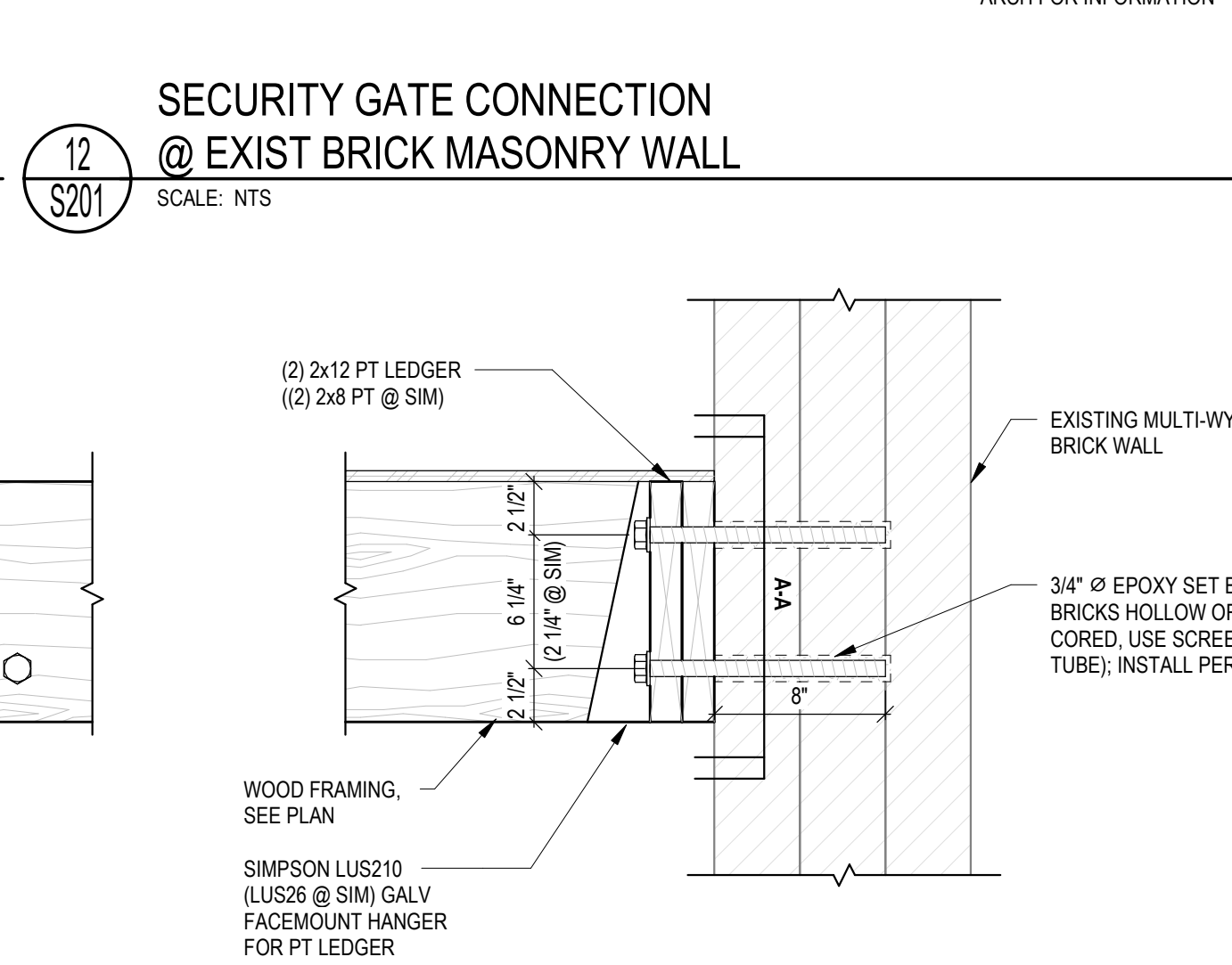
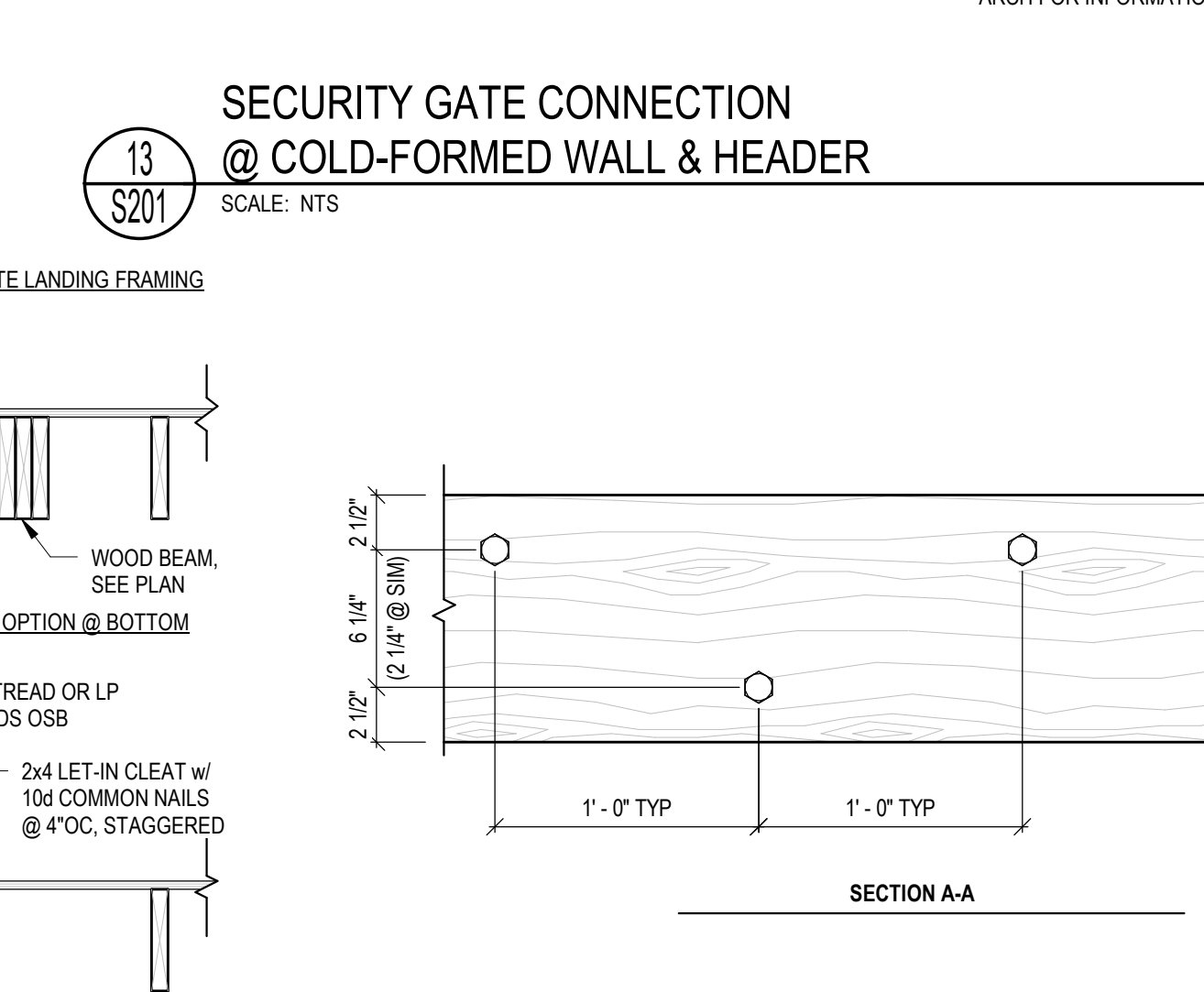
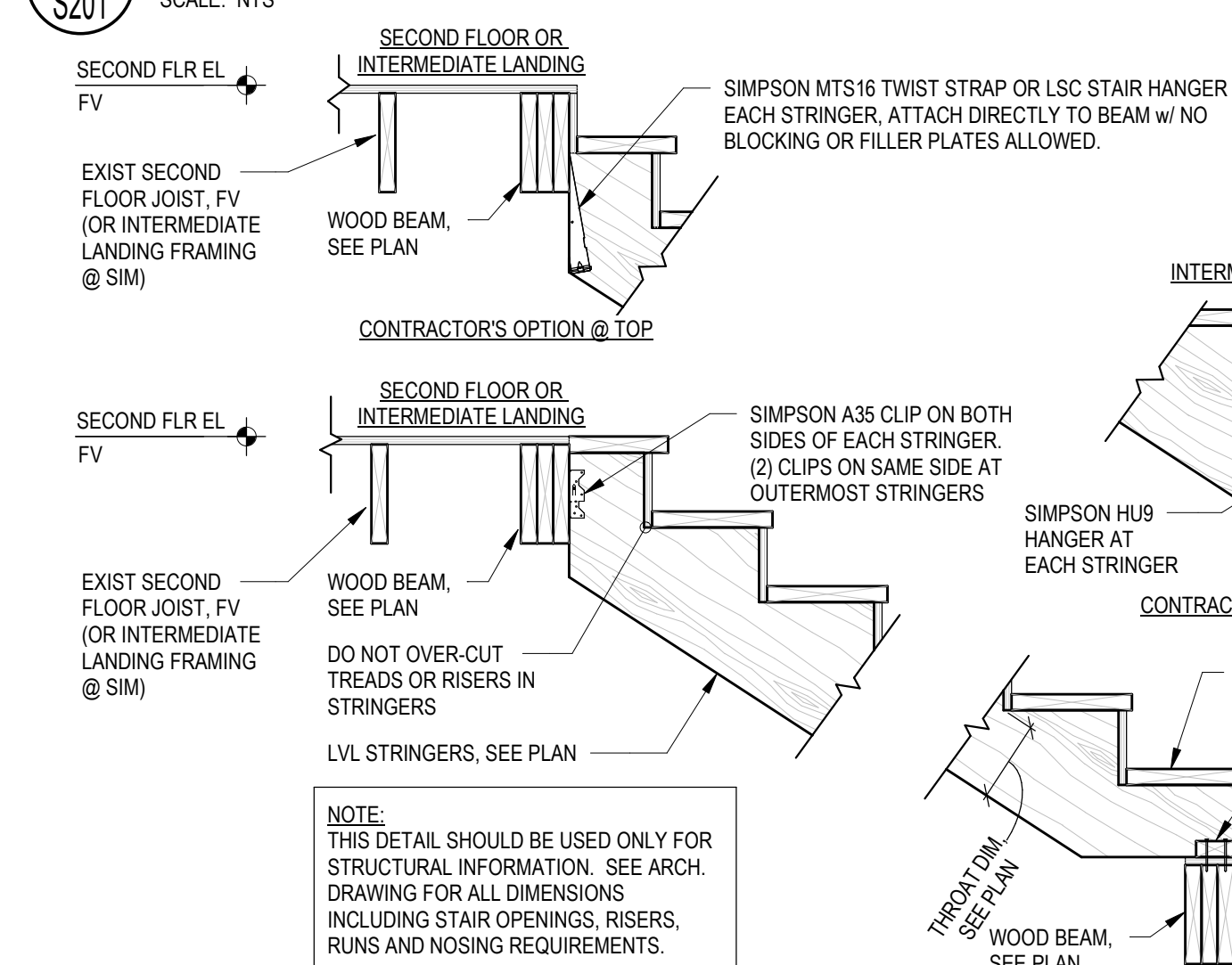
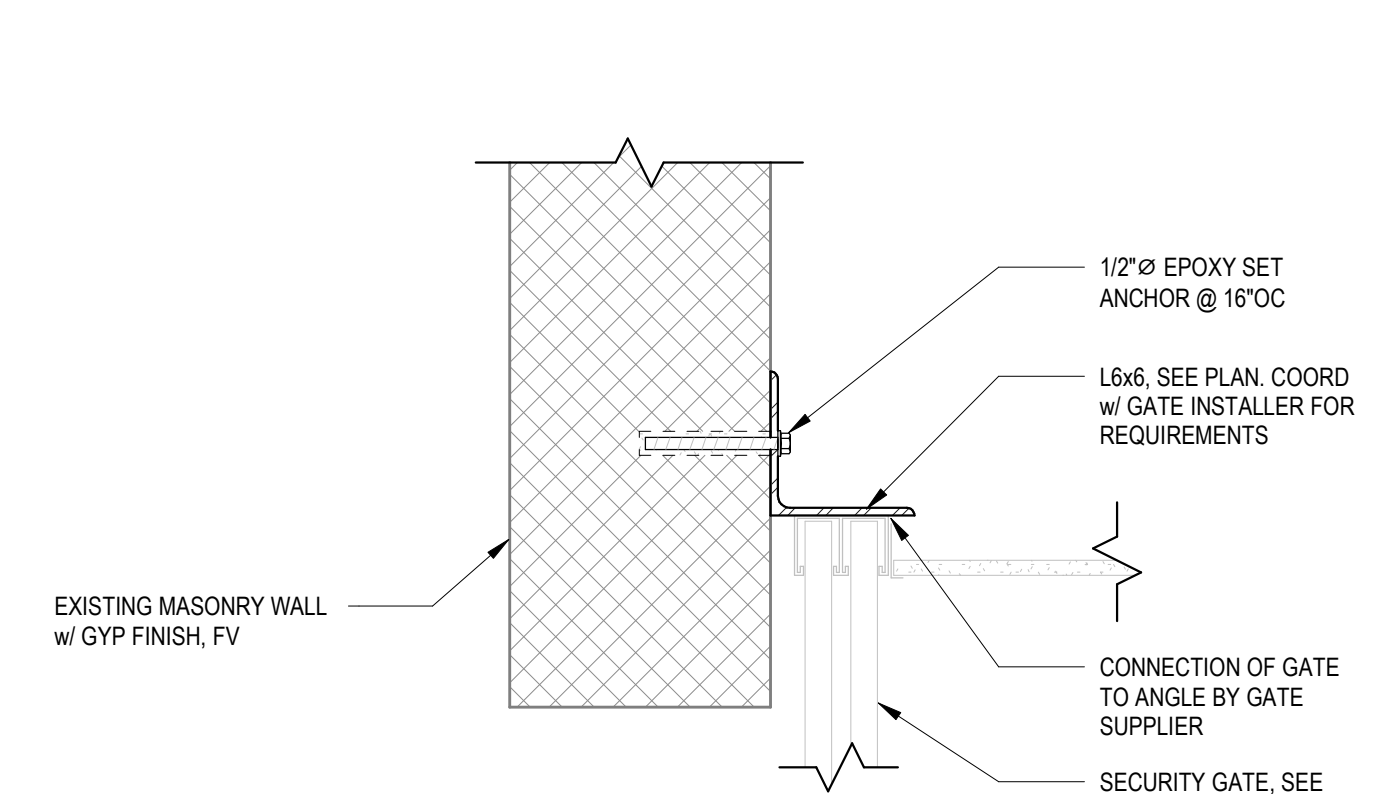
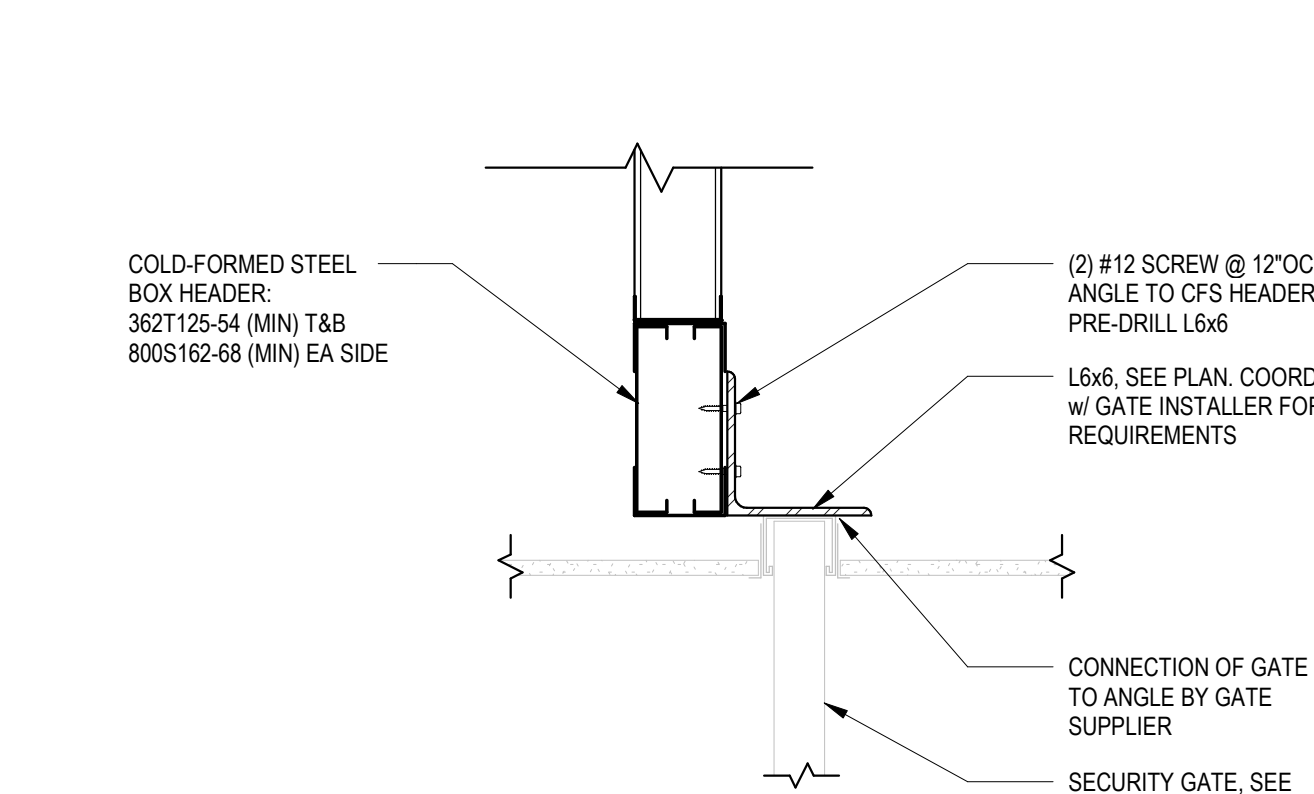
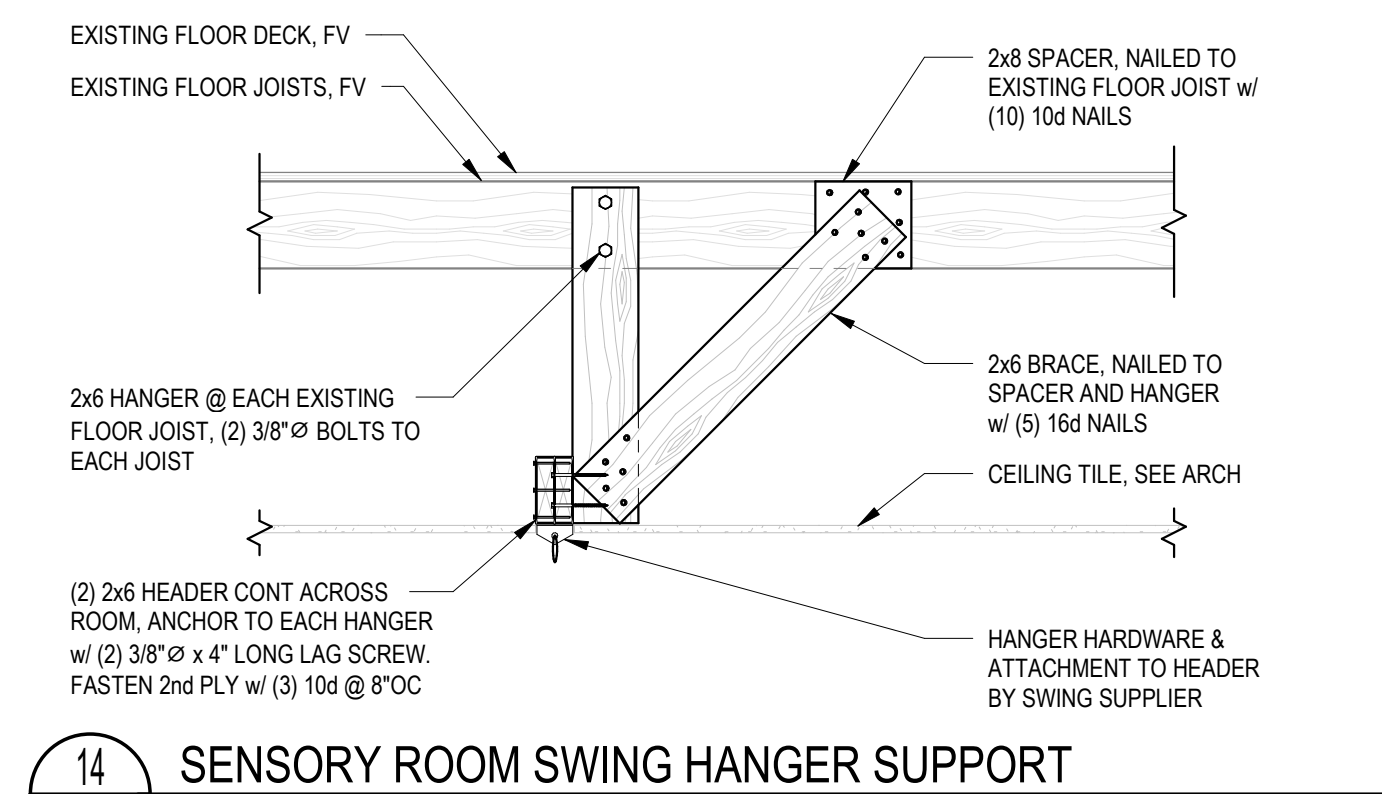
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**STRUCTURAL
DETAILS**

S201



VAUGHN PUBLIC LIBRARY

502 W. MAIN STREET
ASHLAND, WI 54806

VAUGHN PUBLIC LIBRARY
502 W. MAIN STREET
ASHLAND, WI 54806

PROJECT NUMBER 233682.00

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ISSUED FOR:

PERMIT AND BID 11-26-2024

REVISION FOR: DATE

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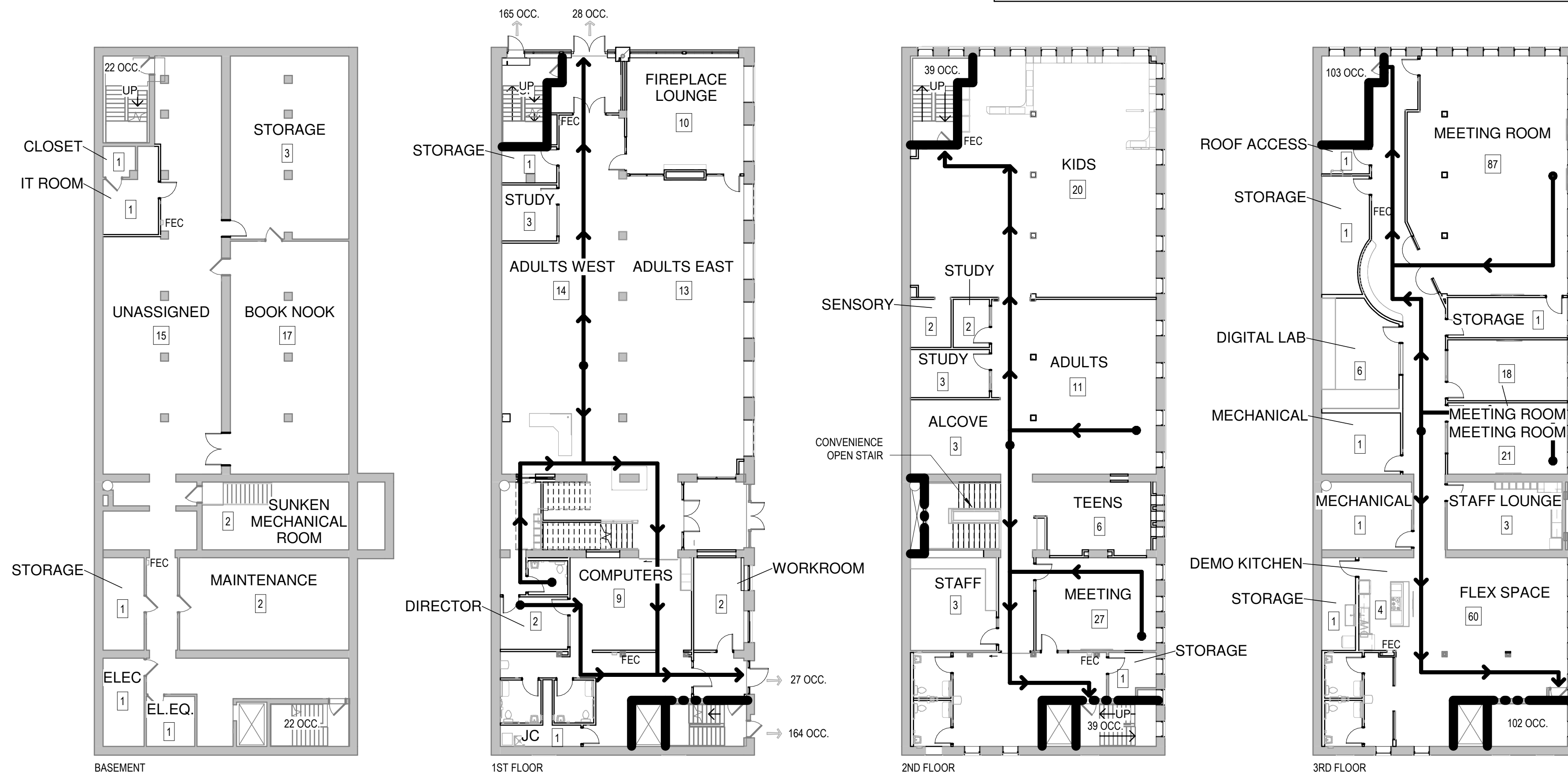
CODE CONFORMANCE PLANS & DATA

A001

OCCUPANCY SCHEDULE					
NUMBER	NAME	FUNCTION	OCCUPANT / SF	AREA	OCCUPANT LOAD
BASEMENT					
B02x	EL.EQ.	ACCESSORY	300	87 SF	1
B03	ELEC	ACCESSORY	300	130 SF	1
B04x	STORAGE	ACCESSORY	300	136 SF	1
B05x	MAINTENANCE	ACCESSORY	300	560 SF	2
B07x	SUNKEN MECHANICAL ROOM	ACCESSORY	300	356 SF	2
B09x	UNASSIGNED	LIBRARY - STACKS	100	1408 SF	15
B10x	BOOK NOOK	MERCANTILE - FLOOR AREA	60	982 SF	17
B11x	STORAGE	ACCESSORY	300	768 SF	3
B12x	CLOSET	ACCESSORY	300	34 SF	1
B13	IT ROOM	ACCESSORY	300	134 SF	1
FIRST FLOOR					
102	FIREPLACE LOUNGE	LIBRARY - READING ROOMS	50	491 SF	10
103	STORAGE	ACCESSORY	300	69 SF	1
104	STUDY	LIBRARY - READING ROOMS	50	110 SF	3
105	ADULTS WEST	LIBRARY - STACKS	100	1303 SF	14
106	ADULTS EAST	LIBRARY - STACKS	100	1286 SF	13
110	WORKROOM	BUSINESS AREAS	100	163 SF	2
112	COMPUTERS	EDUCATIONAL - SHOPS / VOCATIONAL AREAS	50	403 SF	9
113	JC	ACCESSORY	300	60 SF	1
116	DIRECTOR	BUSINESS AREAS	100	119 SF	2
SECOND FLOOR					
201	KIDS	LIBRARY - STACKS	100	1945 SF	20
202	SENSORY	LIBRARY - READING ROOMS	50	70 SF	2
203	STUDY	LIBRARY - READING ROOMS	50	62 SF	2
204	STUDY	LIBRARY - READING ROOMS	50	136 SF	3
205	ADULTS	LIBRARY - STACKS	100	1009 SF	11
206	ALCOVE	LIBRARY - STACKS	100	240 SF	3
208	TEENS	LIBRARY - READING ROOMS	50	278 SF	6
209	STAFF	BUSINESS AREAS	100	285 SF	3
210	MEETING	ASSEMBLY - UNCONCENTRATED	15	399 SF	27
214	STORAGE	ACCESSORY	300	70 SF	1
THIRD FLOOR					
301	MEETING ROOM	ASSEMBLY - UNCONCENTRATED	15	1300 SF	87
302	ROOF ACCESS	ACCESSORY	300	46 SF	1
303	STORAGE	ACCESSORY	300	185 SF	1
305	STORAGE	ACCESSORY	300	172 SF	1
306	MEETING ROOM	ASSEMBLY - UNCONCENTRATED	15	261 SF	18
307	MEETING ROOM	ASSEMBLY - UNCONCENTRATED	15	306 SF	21
308	DIGITAL LAB	EDUCATIONAL - SHOPS / VOCATIONAL AREAS	50	284 SF	6
309	MECHANICAL	ACCESSORY	300	173 SF	1
310	MECHANICAL	ACCESSORY	300	218 SF	1
311	STAFF LOUNGE	BUSINESS AREAS	100	279 SF	3
312	FLEX SPACE	ASSEMBLY - UNCONCENTRATED	15	991 SF	67
313	DEMO KITCHEN	EDUCATIONAL - SHOPS / VOCATIONAL AREAS	50	183 SF	4
317	STORAGE	ACCESSORY	300	112 SF	1
GRAND TOTAL			389		

PLUMBING					
INSERT APPLICABLE CODE AND OCCUPANCY CALCULATION METHOD					
FIXTURES	OCCUPANT LOAD	REQUIREMENTS	REQUIRED	PROVIDED	
WATER CLOSETS	MEN	191	1 PER 125 OCCUPANTS*	2	3
	WOMEN	191	1 PER 65 OCCUPANTS	3	4
	TOTAL			5	7
LAVATORIES	MEN	191	1 PER 200 OCCUPANTS	1	3
	WOMEN	191	1 PER 200 OCCUPANTS	1	4
	TOTAL			2	7
DRINKING FOUNTAINS	382	1 PER 500 OCCUPANTS	1	3	
SERVICE SINKS		1 SERVICE SINK	1	2	
NOTES					
* = MENS WATER CLOSETS CAN BE DIVIDED EQUALLY INTO URINALS AND TOILETS.					
SECTION 890.810 MINIMUM NUMBER OF PLUMBING FIXTURES					
1) BUILDINGS THAT INCORPORATE MORE THAN ONE TYPE OF BUILDING USE OF OCCUPANCY, AS CLASSIFIED BY THE DEPARTMENT, SHALL PROVIDE THE COMBINED NUMBERS OF FIXTURES REQUIRED FOR THE INDIVIDUAL USES.					
2) OCCUPANT LOAD. FOR THOSE BUILDING TYPES WHERE THE MINIMUM NUMBER OF PLUMBING FIXTURES REQUIRED IN APPENDIX A, TABLE B, IS DEPENDENT UPON THE BUILDING'S OCCUPANT LOAD, SUCH OCCUPANT LOAD SHALL BE THE ESTIMATED TOTAL OCCUPANT LOAD.					
IBC 2902.3.2 LOCATION OF TOILETS					
REQUIRED TOILET FACILITIES SHALL BE LOCATED NOT MORE THAN ONE STORY ABOVE OR BELOW THE SPACE REQUIRED TO BE PROVIDED WITH TOILET FACILITIES, AND THE PATH OF TRAVEL TO SUCH FACILITIES SHALL NOT EXCEED A DISTANCE OF 500 FEET.					
NOTES					
GENERAL NOTES AND APPLICABLE CODE EXCEPTIONS					

APPLICABLE CODES		
ZONING CODE	ASHLAND CITY ZONING ORDINANCE	
BUILDING CODE	WISCONSIN ADMINISTRATIVE CODE, SPS 361-366 ICC INTERNATIONAL EXISTING BUILDING CODE 2015 ICC INTERNATIONAL BUILDING CODE 2015	
ACCESSIBILITY CODE	WISCONSIN COMMERCIAL BUILDING CODE, CH. 362 ICC INTERNATIONAL BUILDING CODE 2015, CH 11 ICC / ANSI 177.1 - 2009	
FIRE SAFETY CODE	ICC INTERNATIONAL FIRE CODE 2015 WI DEPARTMENT OF SAFETY AND PROFESSIONAL SERVICES, CH. 314	
PLUMBING CODE	WI DEPARTMENT OF SAFETY AND PROFESSIONAL SERVICES, CH. 381-387	
ELECTRICAL CODE	WI DEPARTMENT OF SAFETY AND PROFESSIONAL SERVICES, CH. 316	
MECHANICAL CODE	WISCONSIN COMMERCIAL BUILDING CODE, CH. 364-365 ICC INTERNATIONAL MECHANICAL CODE 2015 WISCONSIN ADMINISTRATIVE CODE (IFGC 2015)	
ENERGY CODE	WISCONSIN COMMERCIAL BUILDING CODE, CH. 363 ICC INTERNATIONAL ENERGY CONSERVATION CODE 2015	
ELEVATOR CODE	WISCONSIN DEPARTMENT OF SAFETY AND PROFESSIONAL SERVICES, CH. 318	
BUILDING DATA		
OCC. CLASSIFICATION	A-3	
CONSTRUCTION TYPE	TYPE III-B	
SPRINKLERED	SPRINKLERED	
SEISMIC CATEGORY	A	
NUMBER OF STORIES	4 STORIES (3 STORIES ABOVE GRADE + BASEMENT)	
SQUARE FEET/ FLOOR		
BASEMENT LEVEL	6,796 SF (140 SF IN SCOPE)	
FIRST FLOOR LEVEL	6,678 SF (6,256 SF IN SCOPE)	
SECOND FLOOR LEVEL	6,678 SF (6,256 SF IN SCOPE)	
THIRD FLOOR LEVEL	6,678 SF (6,256 SF IN SCOPE)	
BUILDING TOTAL SIZE	26,830 SF (18,908 SF IN SCOPE - ALTERATION LEVEL 2)	
CONSTRUCTION REQUIREMENTS		
OCC. SEPARATION	N/A	
EXT. WALLS-NON BEARING	1 HOUR RATING <30', 0 HOUR RATING >30'	
OPENINGS	N/A	
STRUCTURAL FRAME	0 HOUR RATING	
PARTITIONS	0 HOUR RATING	
SHAFT ENCLOSURES	2 HOUR RATING WHEN CONNECTION 4 STORIES OR MORE, 1 HOUR RATING WHEN LESS THAN 4 STORIES, BUT NOT LESS THAN FLOOR ASSEMBLY BEING PENETRATED	
FLOOR/CEILING	0 HOUR RATING	
ROOF/CEILING	0 HOUR RATING	
ROOFING CLASSIFICATION	EXISTING ROOF COVERING CLASSIFICATION C	
STAIR CONSTRUCTION	EXISTING ENCLOSURE, 2 HOUR RATING	
MEANS OF EGRESS		
OCCUPANT LOAD	382 OCCUPANTS	
BASEMENT LEVEL	44 OCCUPANTS	
FIRST FLOOR LEVEL	55 OCCUPANTS	
SECOND FLOOR LEVEL	78 OCCUPANTS	
THIRD FLOOR LEVEL	205 OCCUPANTS	
TOTAL STAIR WIDTH REQ'D	90'.3 = 27 INCHES (IBC MIN. 44 INCHES)	
TOTAL STAIR WIDTH PROVIDED	45 INCHES	
CORRIDOR WIDTH REQ'D	90'.2 = 18 INCHES (IBC MIN. 44 INCHES)	
CORRIDOR WIDTH PROVIDED	54 INCHES	
EXIT DOOR WIDTH REQ'D	90'.2 = 18 INCHES (IBC MIN. 32 INCHES)	
EXIT DOOR WIDTH PROVIDED	72 INCHES (2 DOORS x 36 INCHES)	
FIRST FLOOR LEVEL	REQUIRED	PROVIDED
EXIT ACCESS DISTANCE	250'	112'
DEAD END CORRIDOR	50'	20'
COMMON PATH OF TRAVEL	75'	41'
SECOND FLOOR LEVEL	2 EXITS	2 EXITS
EXIT ACCESS DISTANCE	250'	90'
DEAD END CORRIDOR	50'	N/A
COMMON PATH OF TRAVEL	75'	38'
THIRD FLOOR LEVEL	2 EXITS	2 EXITS
EXIT ACCESS DISTANCE	250'	106'
DEAD END CORRIDOR	50'	N/A
COMMON PATH OF TRAVEL	75'	47'
GRAPHIC SYMBOLS		
	PATH OF EGRESS	Room name
	EXIT TO GRADE	## Area Occupancy Count
	1 HOUR FIRE PARTITION	
	EGRESS COMPONENT WIDTH	READING ROOM OCCUPANCY COUNT (50 SQFT PER OCCUPANT) WITHIN STACK AREAS
	FIRE EXTINGUISHER IN CABINET	



1 CODE CONFORMANCE PLANS

SCALE: 1/16" = 1'-0"

**VAUGHN PUBLIC
LIBRARY**

502 W. MAIN STREET
ASHLAND, WI 54806

VAUGHN PUBLIC LIBRARY
502 W. MAIN STREET
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PROJECT NUMBER 233682.00

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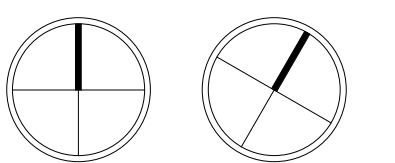
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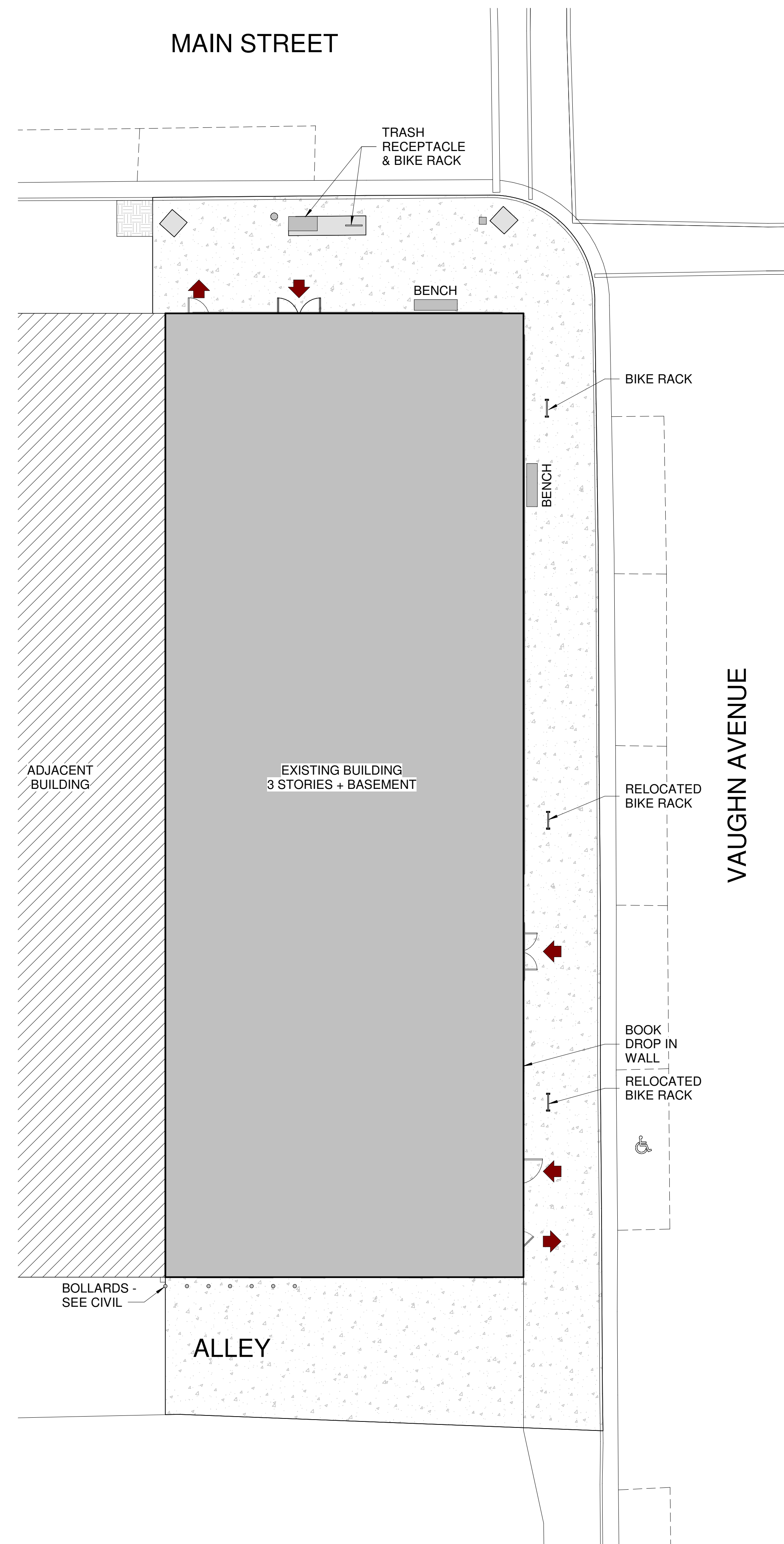
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**ARCHITECTURAL
SITE PLAN**

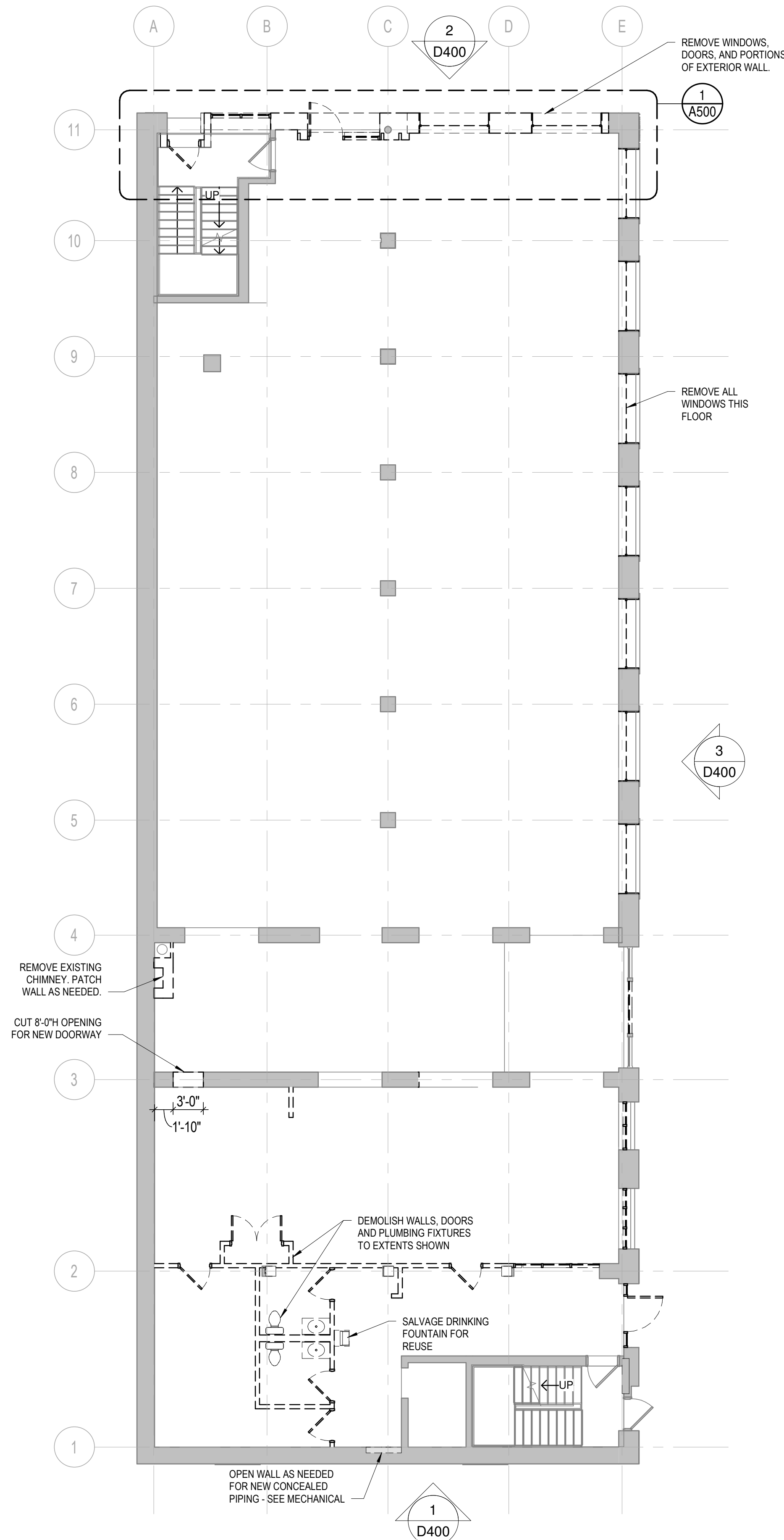


Plan North True North

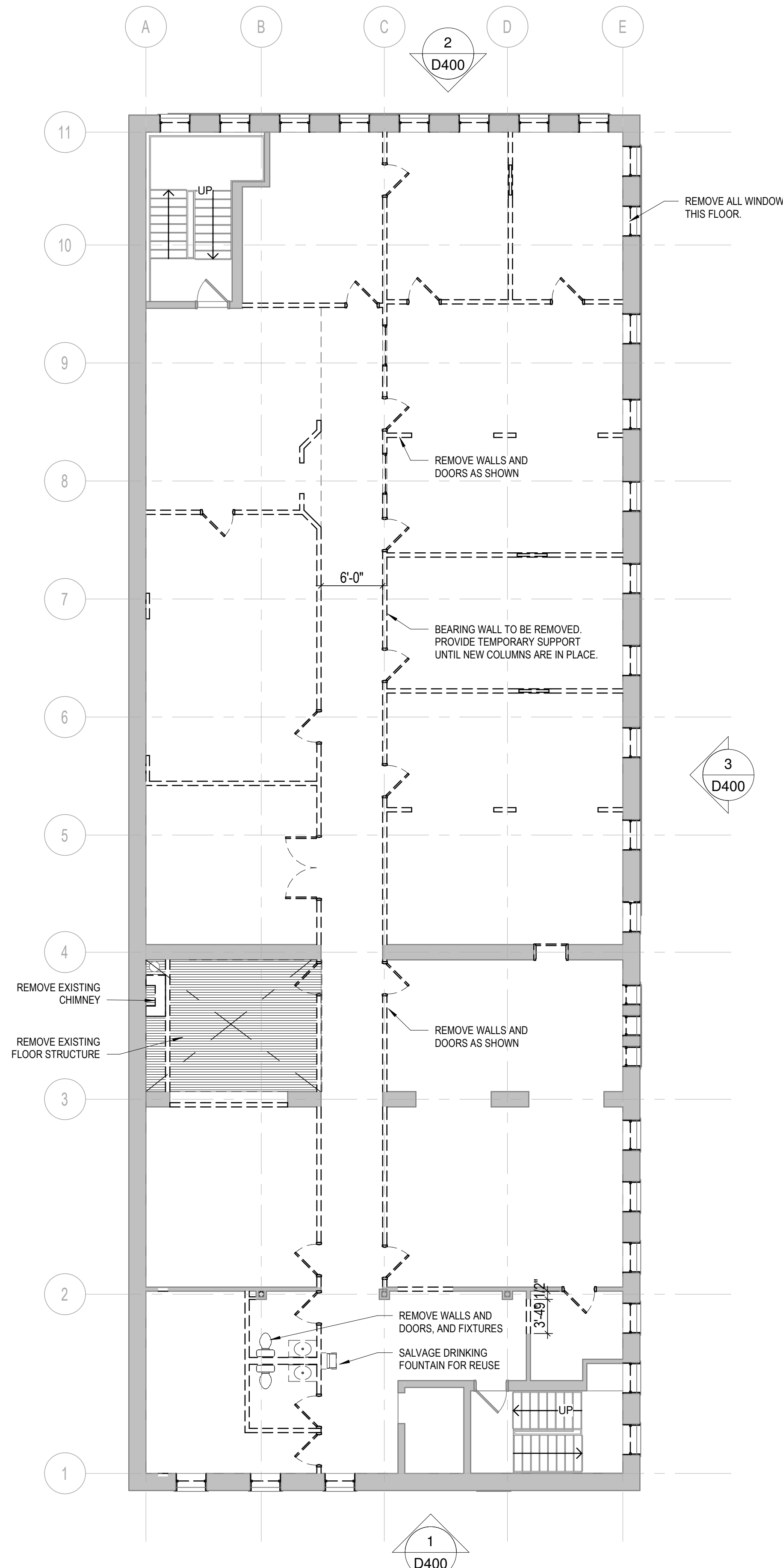


GENERAL NOTES - DEMOLITION

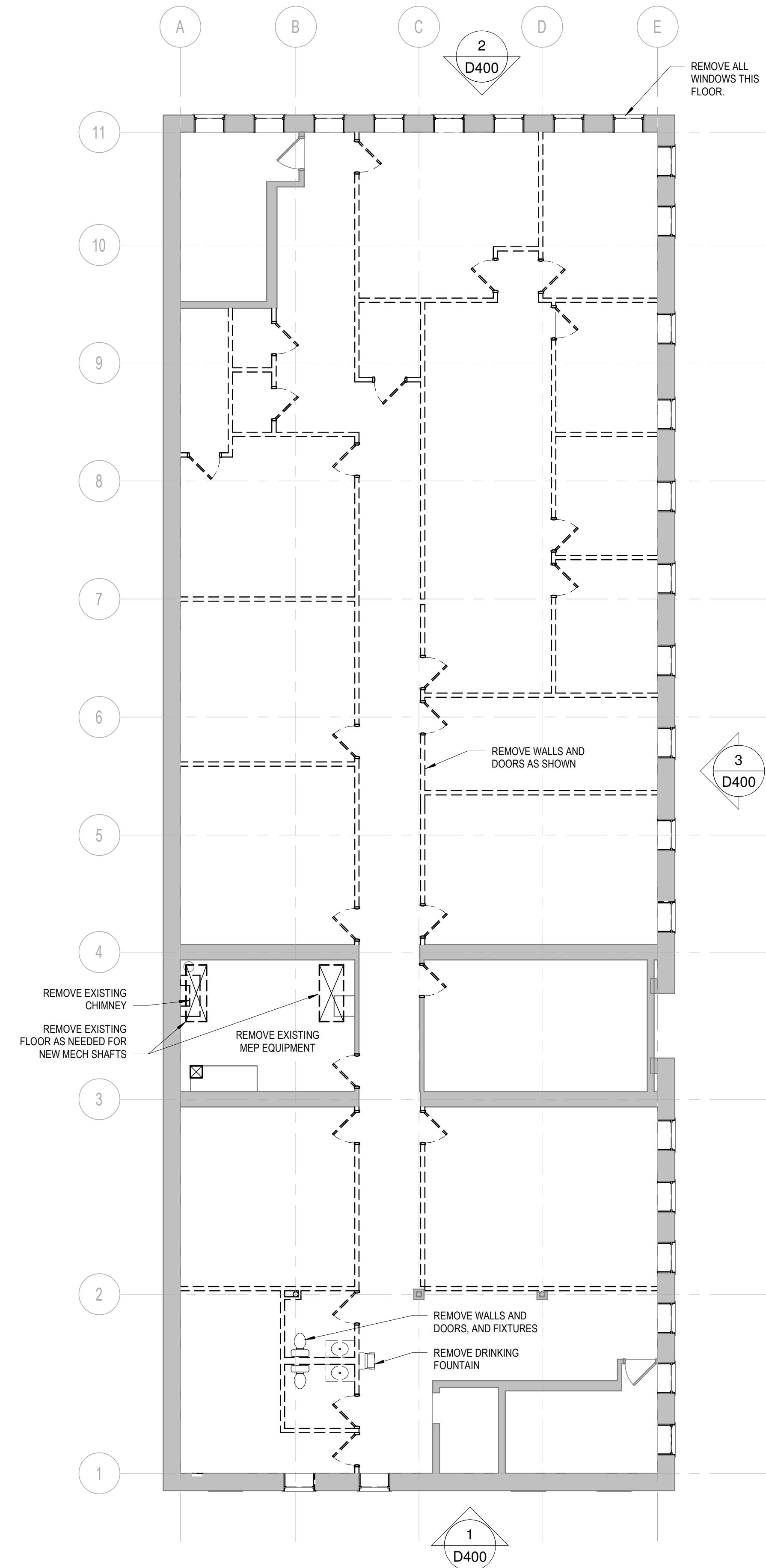
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1 1ST FLOOR - DEMO PLAN
SCALE: 1/8" = 1'-0"



2 2ND FLOOR - DEMO PLAN
SCALE: 1/8" = 1'-0"



3 3RD FLOOR - DEMO PLAN
SCALE: 1/8" = 1'-0"

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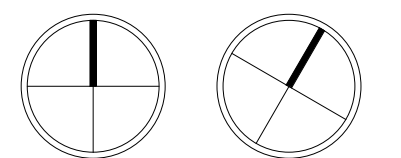
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**1ST-3RD FLOOR
DEMO PLANS**



Plan North True North

D101

GENERAL NOTES - DEMOLITION

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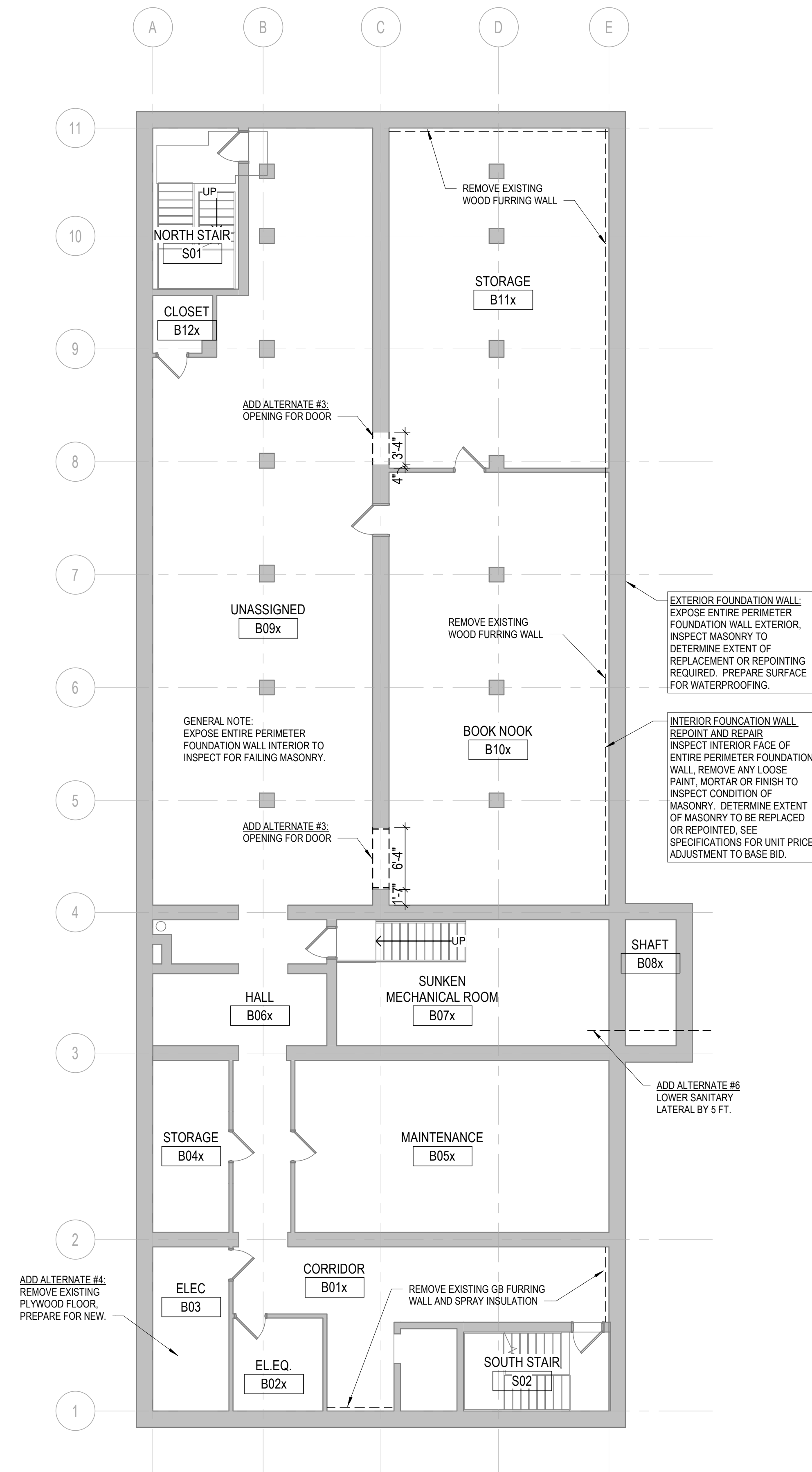
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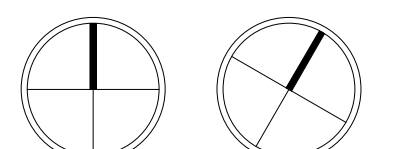


1 BASEMENT - DEMO PLAN
SCALE: 1/8" = 1'-0"

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BASEMENT DEMO PLAN

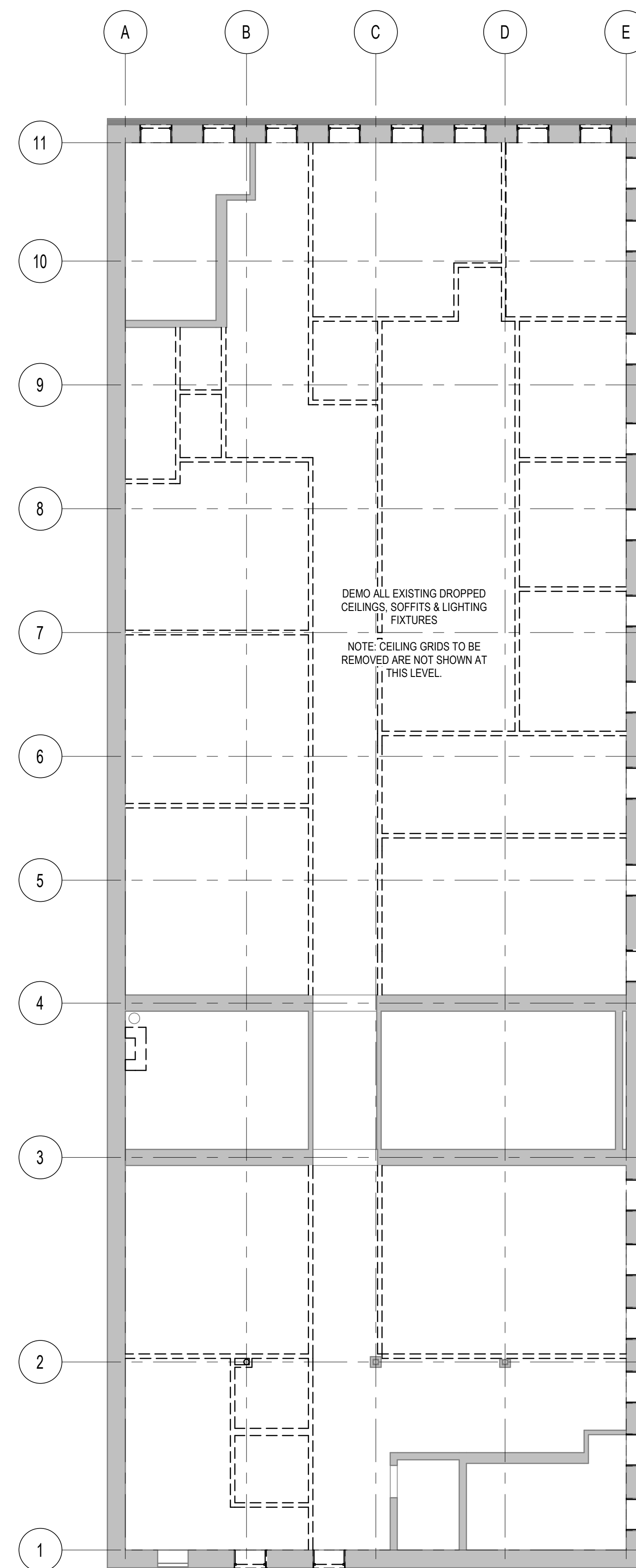
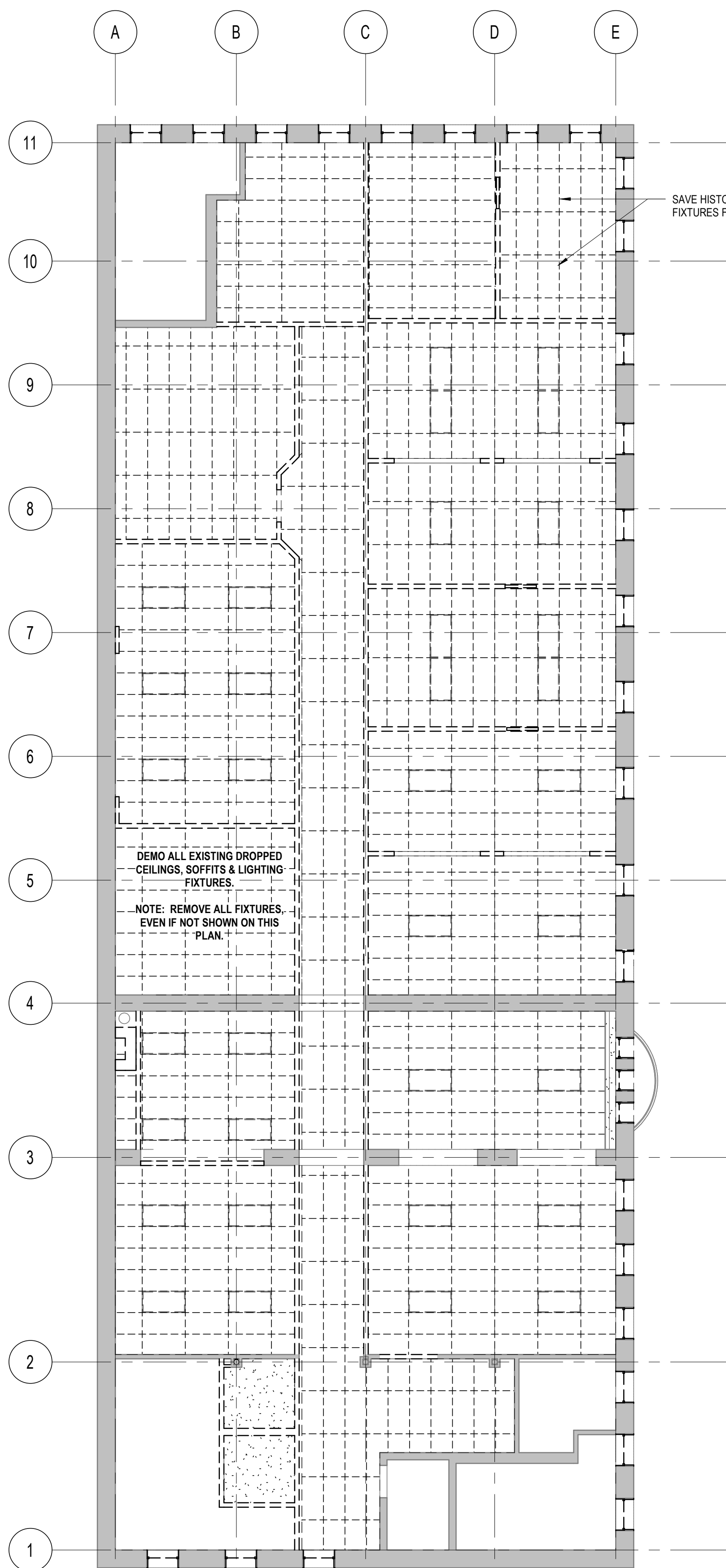
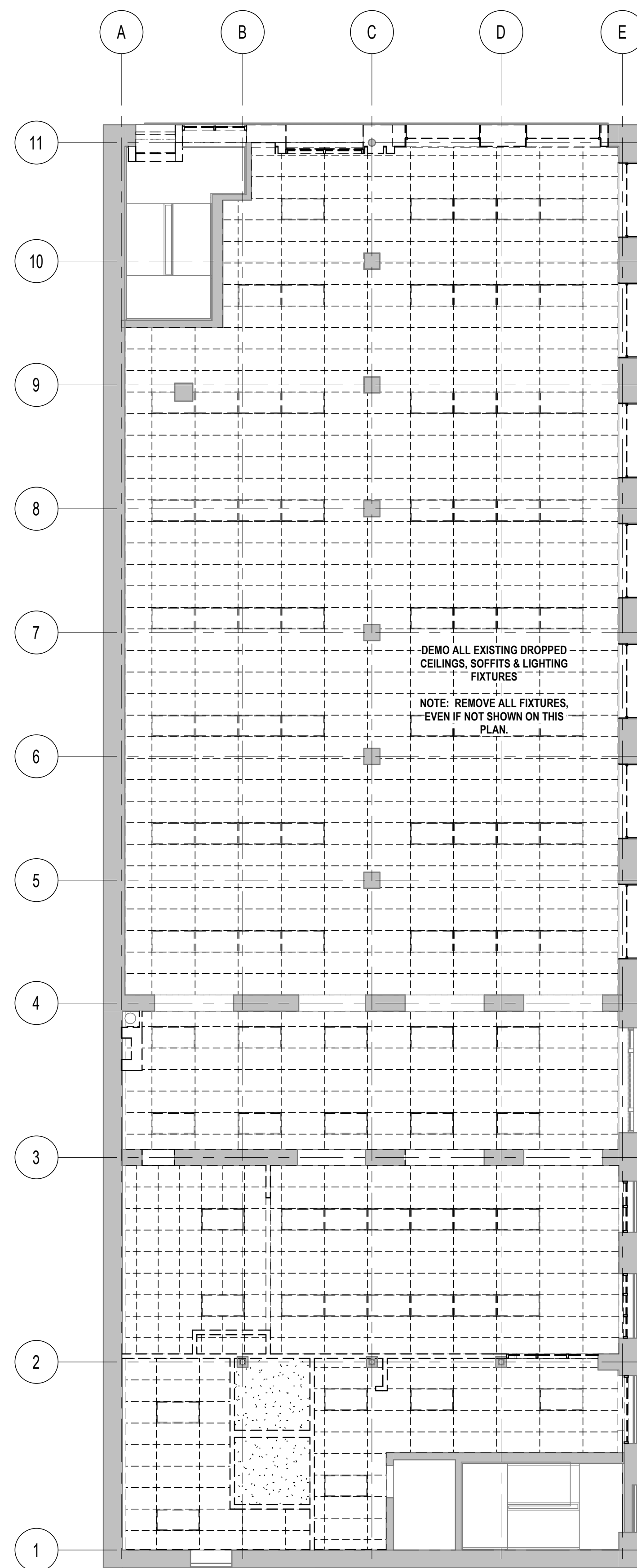


Plan North True North

D100

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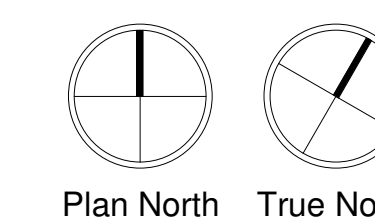
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**1ST-3RD FLOOR
DEMO REFLECTED
CEILING PLANS**

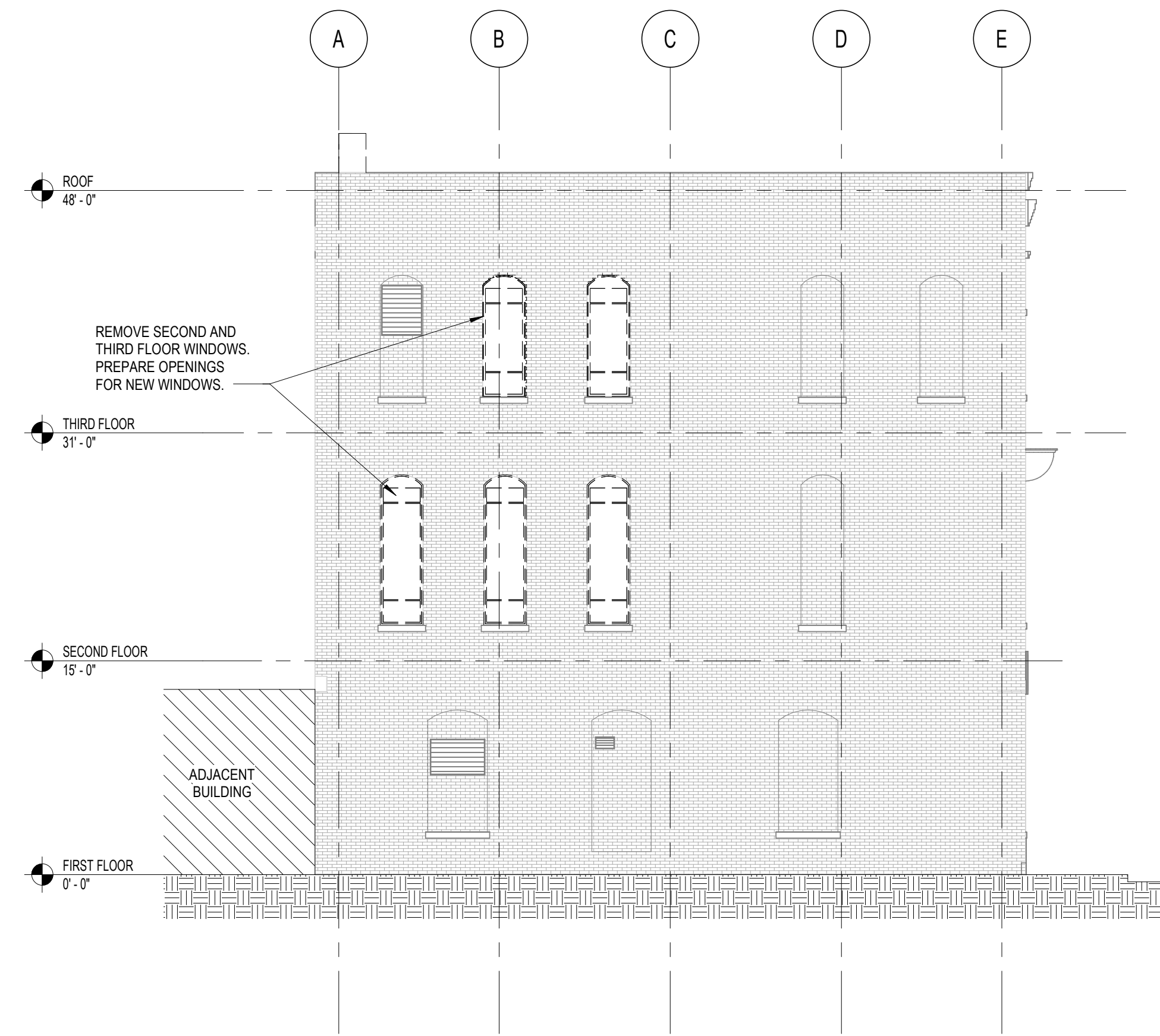


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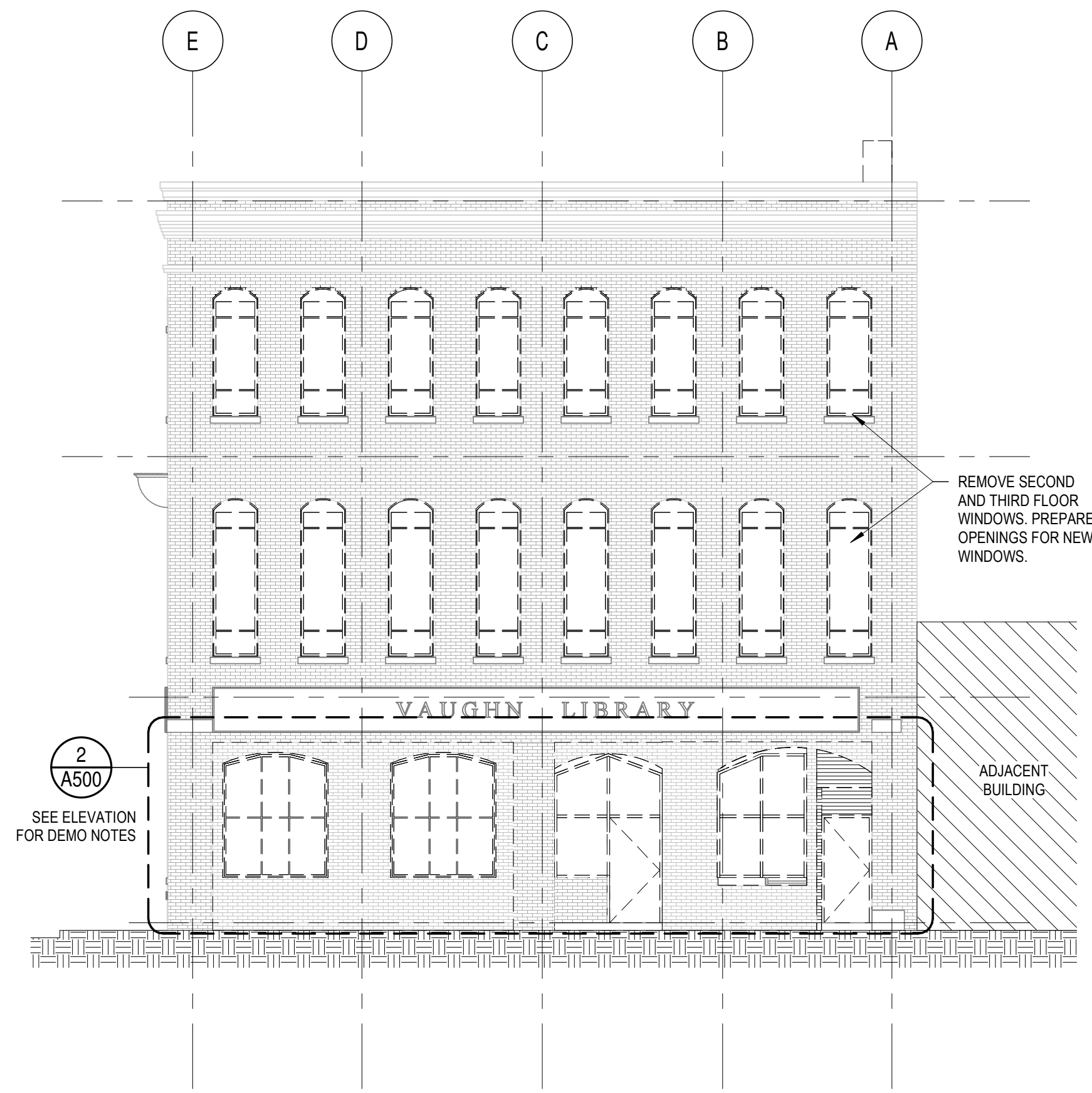
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SCALE: 1/8" = 1'-0"

2 2ND FLOOR - DEMO REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

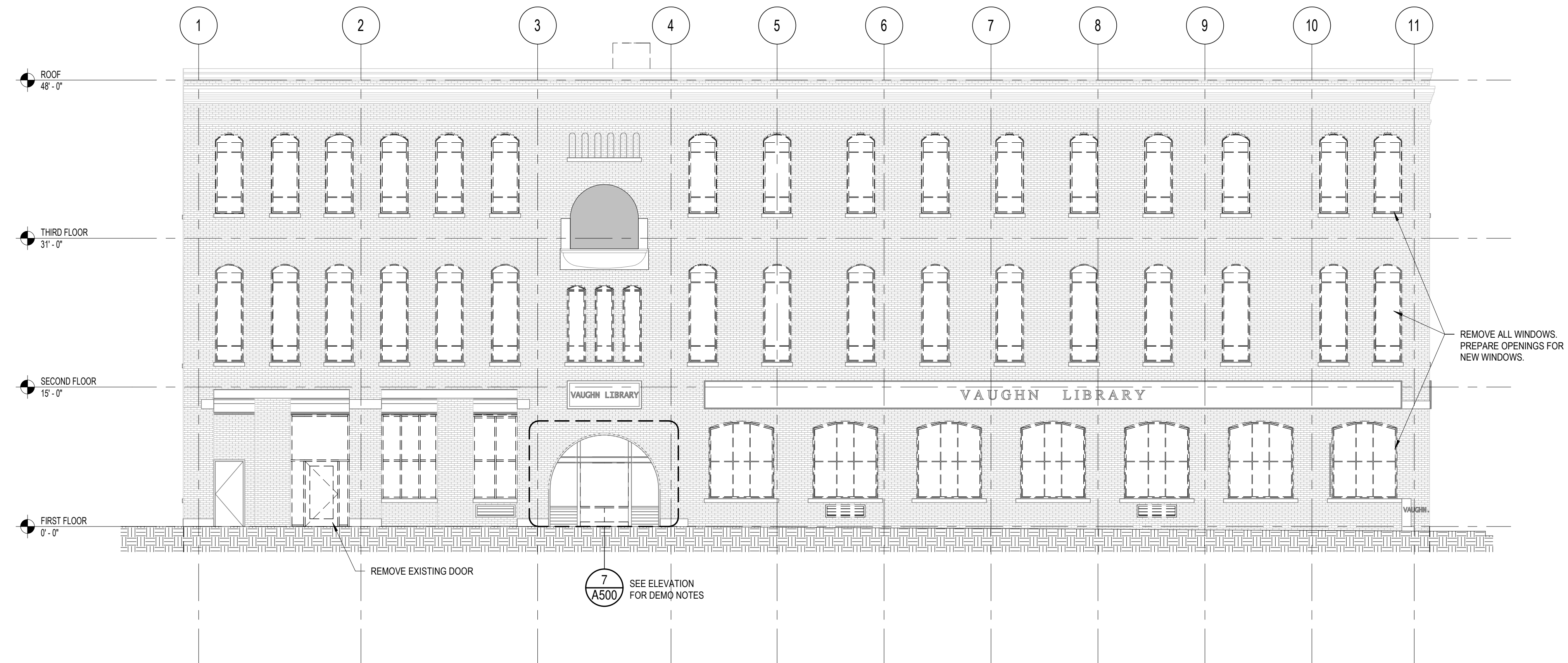
3 3RD FLOOR - DEMO REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"



1 SOUTH ELEVATION DEMO
SCALE: 1/8" = 1'-0"



2 NORTH ELEVATION DEMO
SCALE: 1/8" = 1'-0"



3 EAST ELEVATION DEMO
SCALE: 1/8" = 1'-0"

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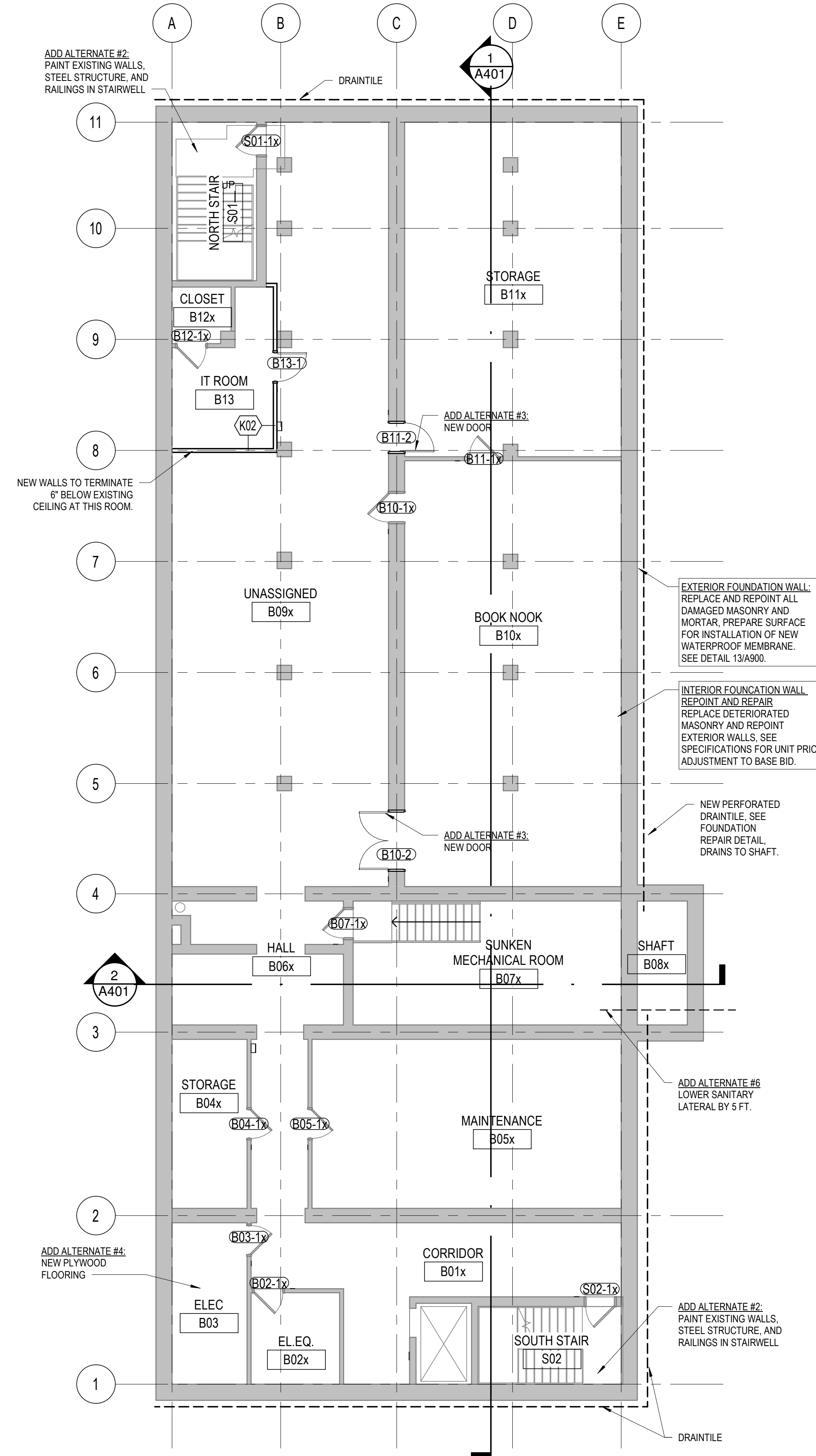
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DEMO BUILDING ELEVATIONS

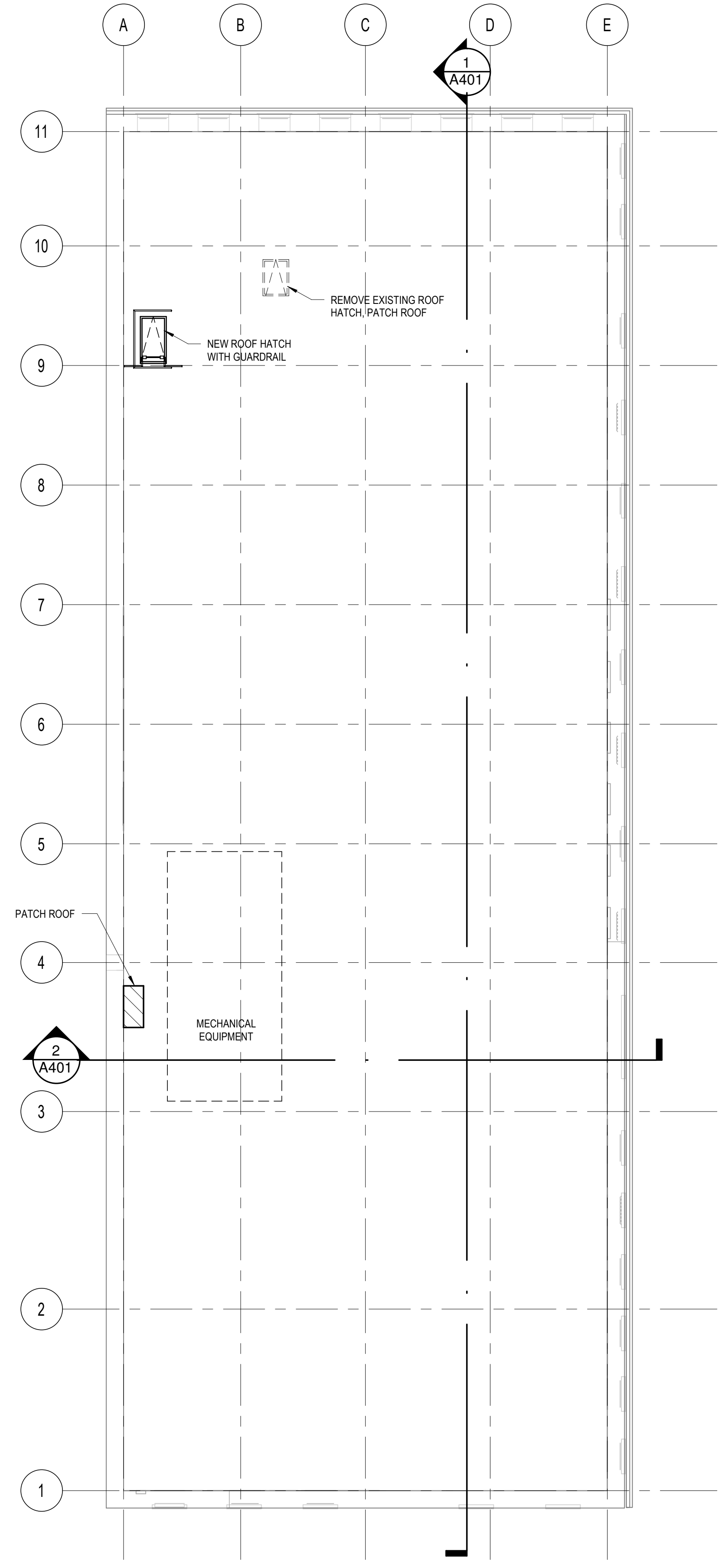
D400

GENERAL NOTES - PLANS

- EXISTING BUILDING DRAWINGS ARE SHOWN ACCORDING TO THE ORIGINAL BUILDING PLANS WITH LIMITED FIELD VERIFICATION. CONTRACTORS SHALL FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PERTINENT TO THEIR WORK PRIOR TO THE COMMENCEMENT OF WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO THE COMMENCEMENT OF WORK.
- DO NOT SCALE DRAWINGS. LARGER SCALE DRAWINGS SHALL TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS. NOTIFY ARCHITECT OF ANY DRAWING DISCREPANCIES.
- COORDINATE ALL CUTTING & PATCHING OF SURFACES AND SYSTEMS WITH GENERAL CONTRACTOR PROVIDE CONCEALED BLOCKING IN WALL FOR ALL WALL MOUNTED ELEMENTS INCLUDING BUT NOT LIMITED TO VISUAL DISPLAY DEVICES, FIRE CABINETS, VIDEO EQUIPMENT & MILLWORK.
- WHERE NEW CONSTRUCTION & FINISHES MEET EXISTING, ALIGN NEW AND EXISTING CONDITIONS AS TO ELIMINATE THE APPEARANCE OF SEAMS.
- DISPLAY MONITORS - OWNER SHALL PROVIDE MONITORS AND ASSOCIATED BRACKETS. GC TO INSTALL. CONTINUE FINISHED WALL SURFACE BEHIND ALL WALL MOUNTED BRACKETS.
- INTERIOR DIMENSIONS ARE TAKEN FROM FACE OF GYP. BOARD U.N.O
- ALL WALLS ARE K03 UNLESS NOTED OTHERWISE.
- "4" DIMENSIONS TYPICAL FROM DOOR JAMP TO ADJACENT WALL UNLESS NOTED OTHERWISE.
- "x" IN ROOM NUMBER INDICATES NO CHANGE TO FINISHES FOR THAT ROOM.



1 BASEMENT FLOOR PLAN
SCALE: 1/8" = 1'-0"



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

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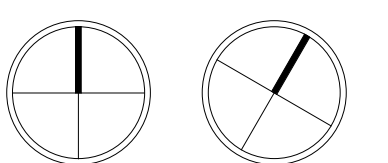
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BASEMENT & ROOF PLANS

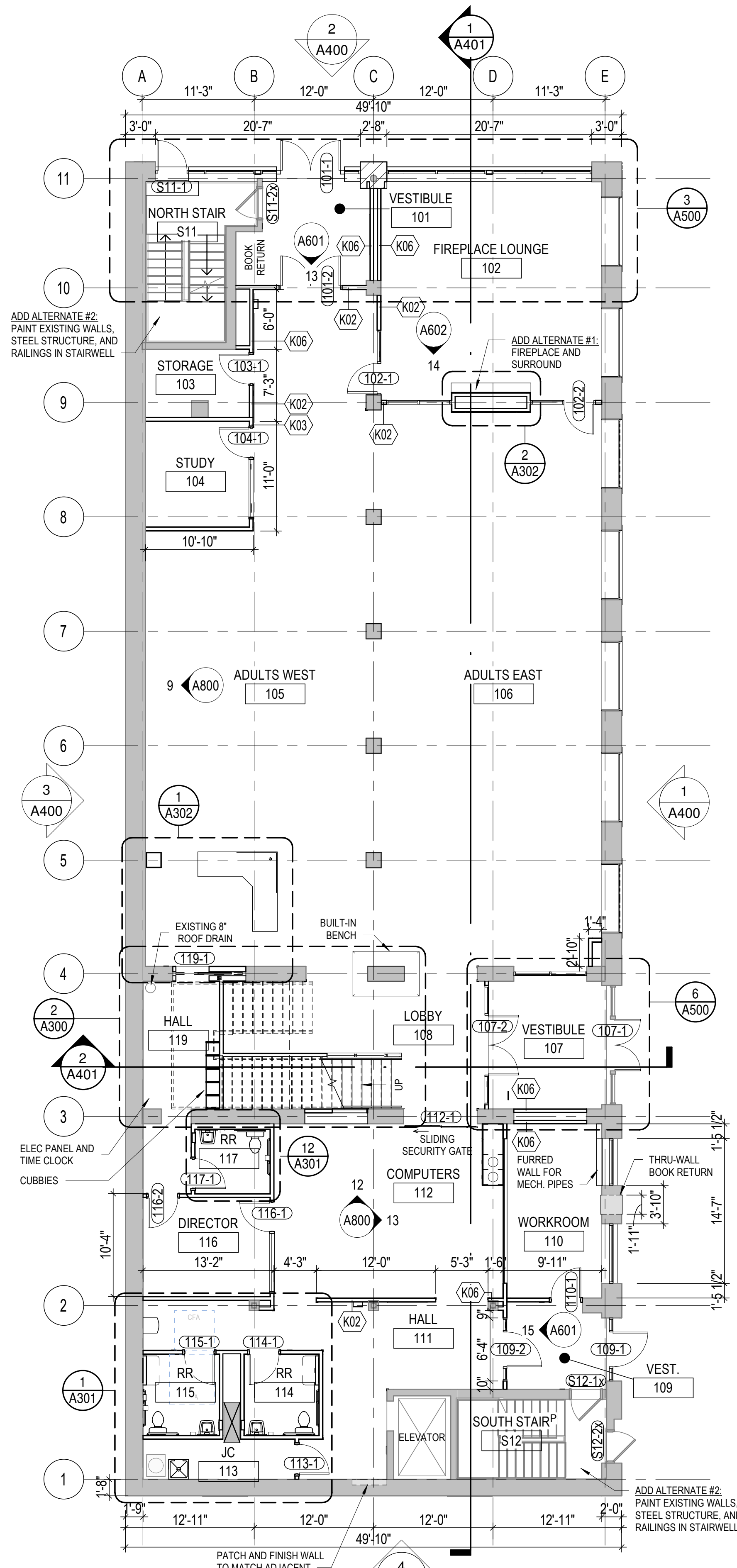


Plan North True North

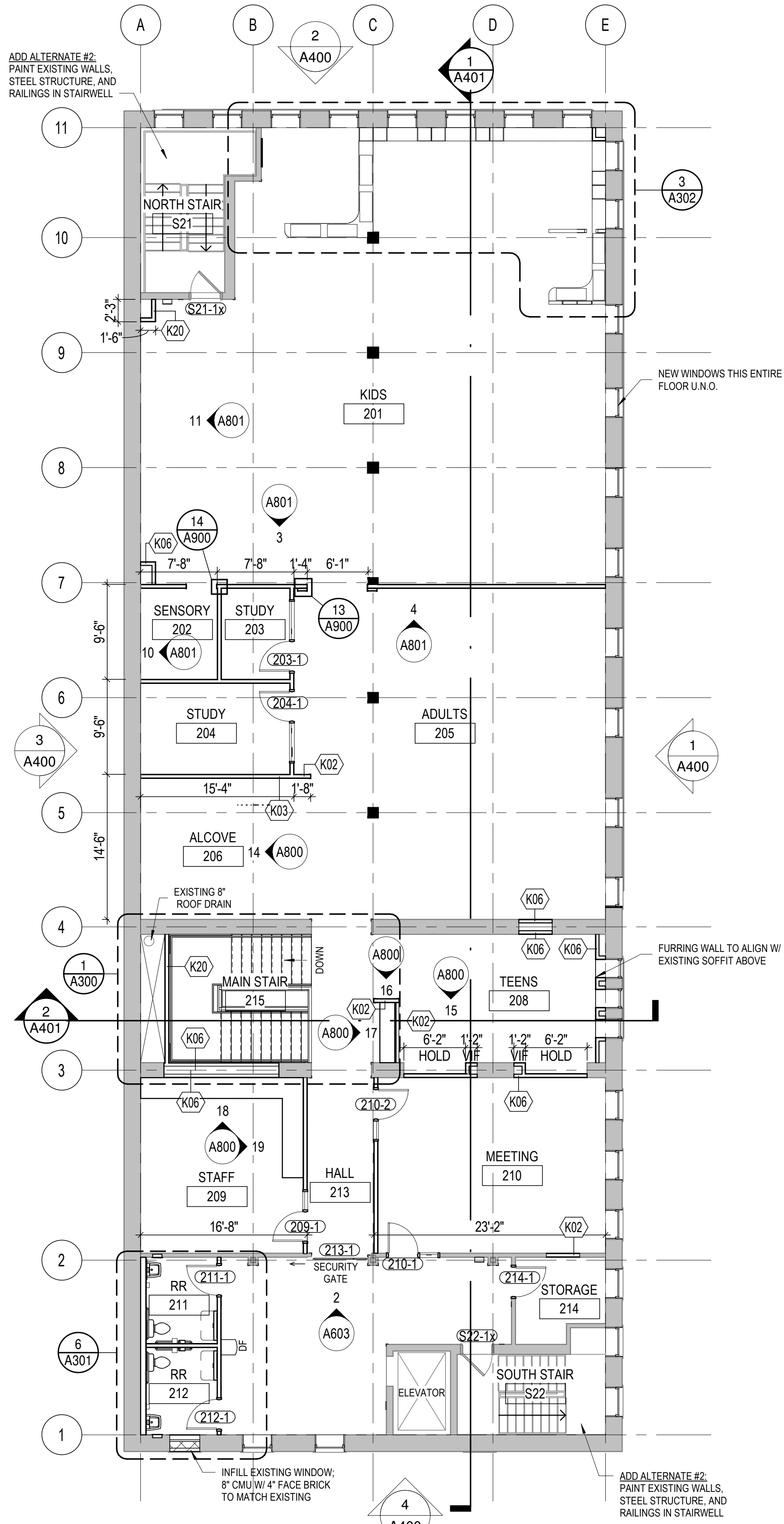
A100

GENERAL NOTES - PLANS

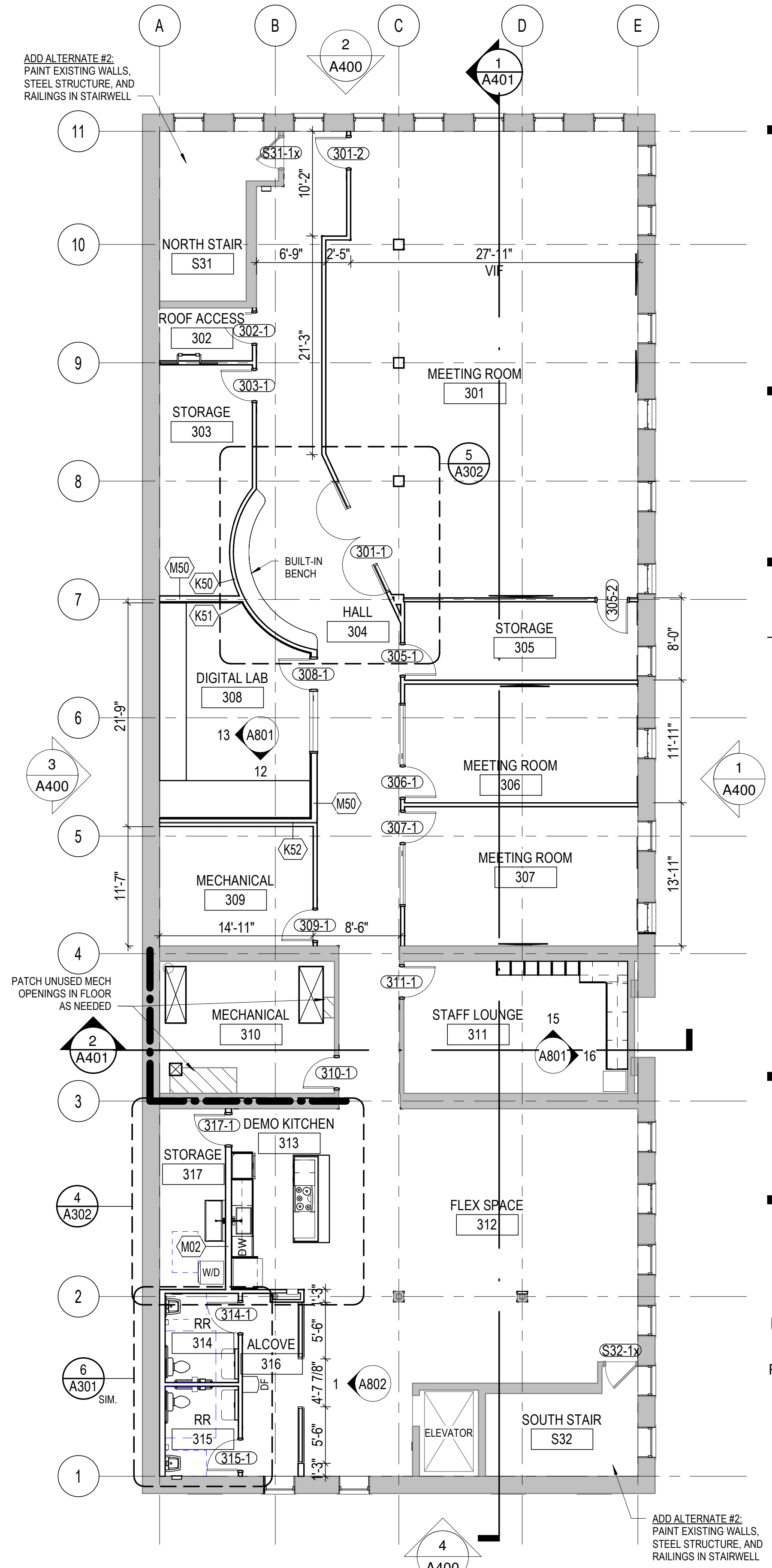
- EXISTING BUILDING DRAWINGS ARE SHOWN ACCORDING TO THE ORIGINAL BUILDING PLANS WITH LIMITED FIELD VERIFICATION. CONTRACTORS SHALL FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PERTINENT TO THEIR WORK PRIOR TO THE COMMENCEMENT OF WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO THE COMMENCEMENT OF WORK.
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- COORDINATE ALL CUTTING & PATCHING OF SURFACES AND SYSTEMS WITH GENERAL CONTRACTOR PROVIDE CONCEALED BLOCKING IN WALL FOR ALL WALL MOUNTED ELEMENTS INCLUDING BUT NOT LIMITED TO VISUAL DISPLAY DEVICES, FIRE CABINETS, VIDEO EQUIPMENT & MILLWORK.
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- INTERIOR DIMENSIONS ARE TAKEN FROM FACE OF GYP. BOARD U.N.O
- ALL WALLS ARE K03 UNLESS NOTED OTHERWISE.
- 4" DIMENSIONS TYPICAL FROM DOOR JAMP TO ADJACENT WALL UNLESS NOTED OTHERWISE.
- "x" IN ROOM NUMBER INDICATES NO CHANGE TO FINISHES FOR THAT ROOM.



1 1ST FLOOR PLAN
SCALE: 1/8" = 1'-0"



2 2ND FLOOR PLAN
SCALE: 1/8" = 1'-0"



3 3RD FLOOR PLAN
SCALE: 1/8" = 1'-0"

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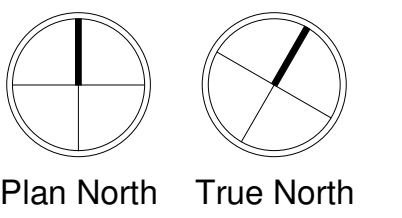
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1ST-3RD FLOOR PLANS



A101

GENERAL NOTES - REFLECTED CEILING PLANS

1. ALL CEILING DEVICES SHOWN ARE DIAGRAMMATIC. REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR ELECTRICAL AND MECHANICAL SCOPE OF WORK.
2. ALL SPRINKLER HEADS WITHIN SOFFITS SHALL HAVE CONCEALED HEADS.

GRAPHIC SYMBOLS

	ACOUSTICAL CEILING TILES		RECESSED CEILING LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS
	PAINTED GYP BOARD CEILING		CEILING MOUNTED LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS
	EXPOSED PAINTED STRUCTURE		RECESSED WALL LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS
	CEILING MATERIAL AND TYPE		WALL MOUNTED LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS
	CEILING HEIGHT AFF		SURFACE MOUNTED ACCENT LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS
	SUPPLY AIR LOUVER		RECESSED ACCENT LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS
	RETURN AIR LOUVER		CEILING MOUNTED EXIT LIGHT
	LINEAR SLOT DIFFUSER		WALL MOUNTED EXIT LIGHT
	ACCESS PANEL		OCCUPANCY SENSOR
	LINEAR FLUORESCENT - REFER TO ELECTRICAL DRAWINGS		DAYLIGHT SENSOR
	PENDANT MOUNTED LINEAR FLUORESCENT - REFER TO ELECTRICAL DRAWINGS		SPEAKER - CEILING RECESSED
	WALL MOUNTED LINEAR FLUORESCENT - REFER TO ELECTRICAL DRAWINGS		SPEAKER - CEILING SURFACE MOUNTED
	FLUORESCENT STRIP LIGHT - REFER TO ELECTRICAL DRAWINGS		UPRIGHT SPRINKLER
	RECESSED 2x2 - REFER TO ELECTRICAL DRAWINGS		PENDANT SPRINKLER
	RECESSED 2x4 - REFER TO ELECTRICAL DRAWINGS		CONCEALED SPRINKLER
			SIDEWALL SPRINKLER

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**REFLECTED
CEILING PLAN
NOTES AND
SYMBOLS**

A200

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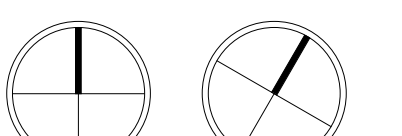
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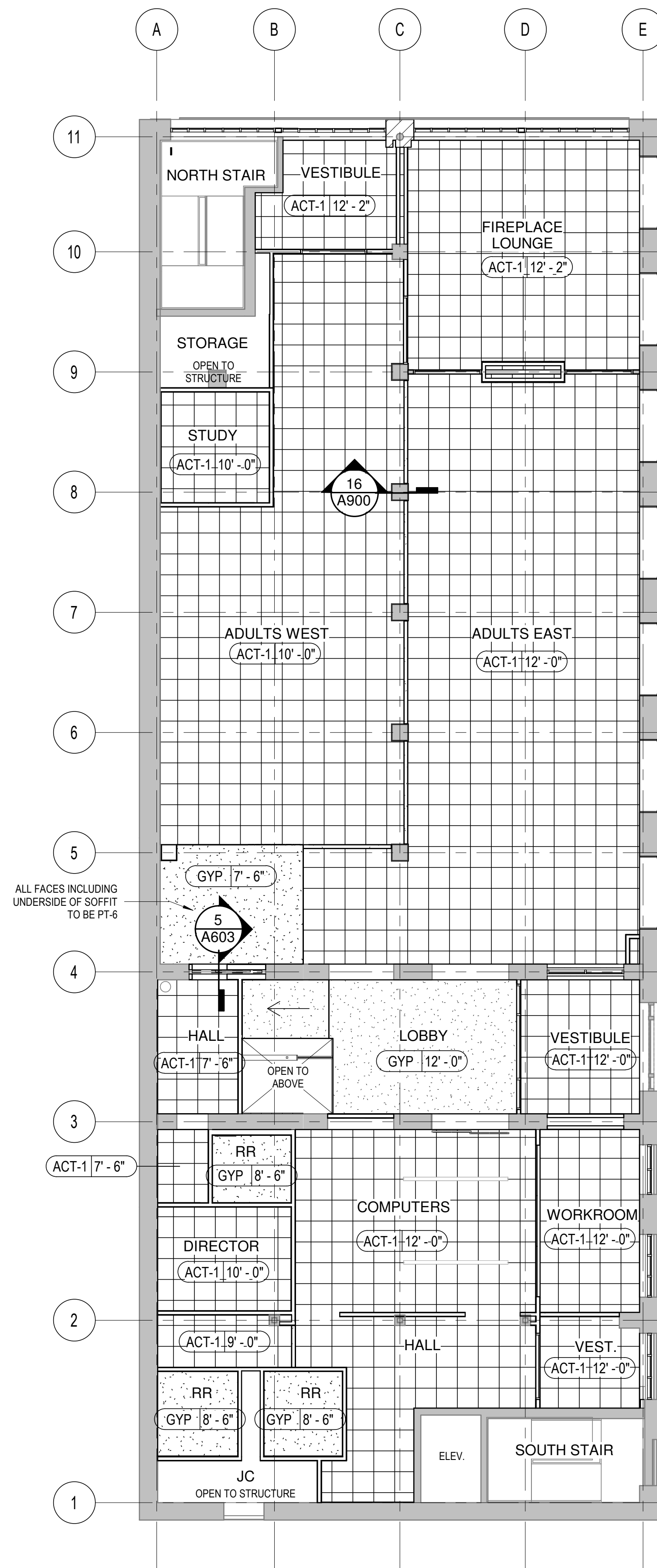
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**1ST-3RD FLOOR
REFLECTED
CEILING PLANS**

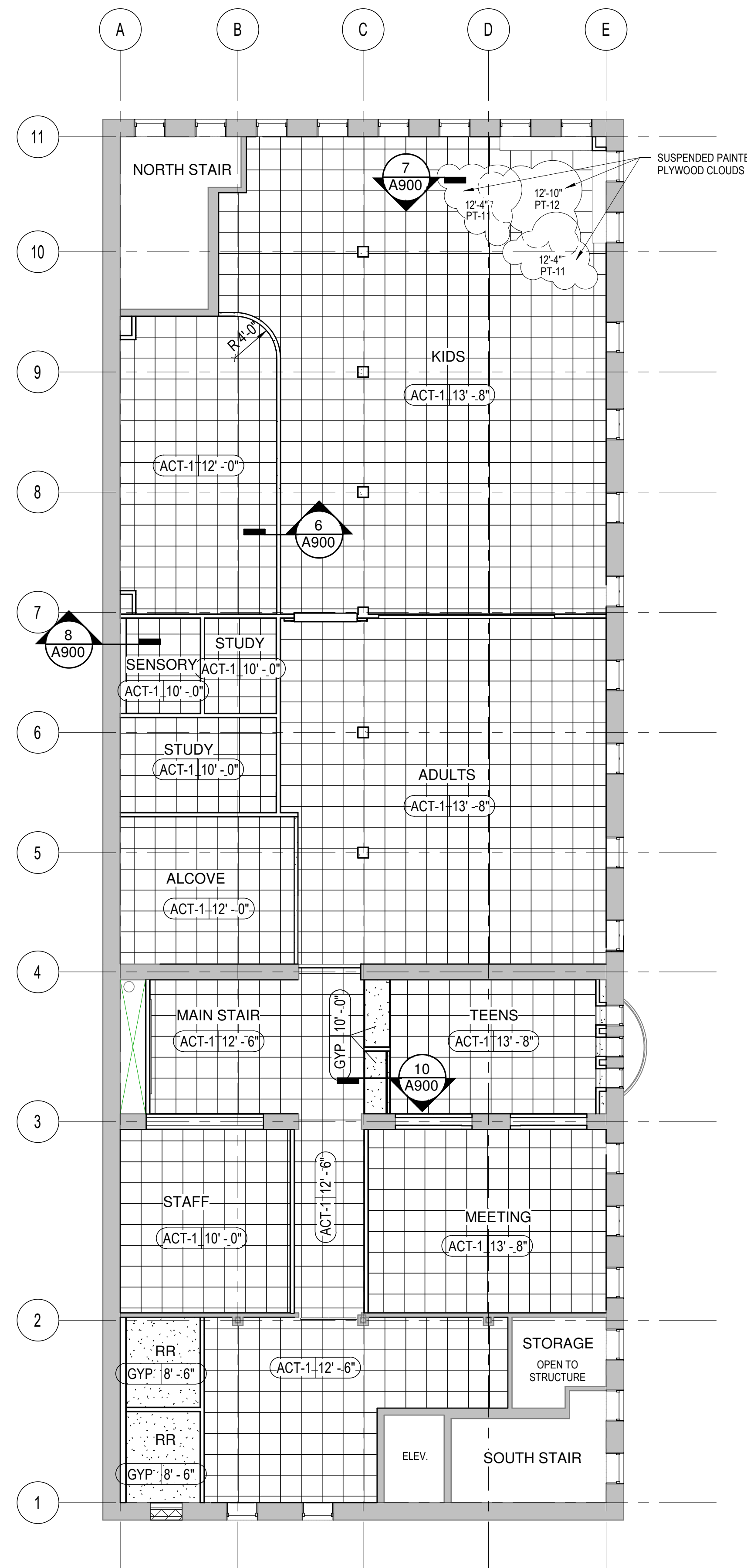


Plan North True North

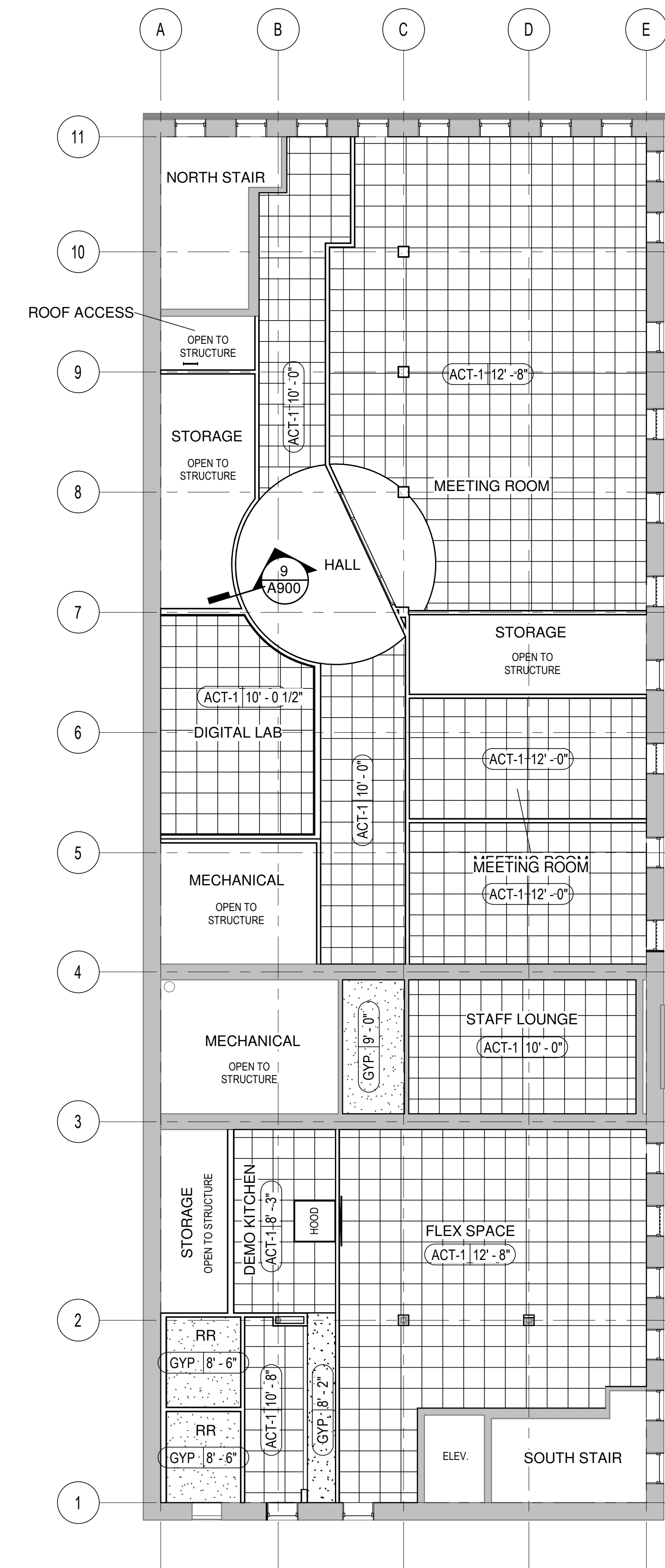
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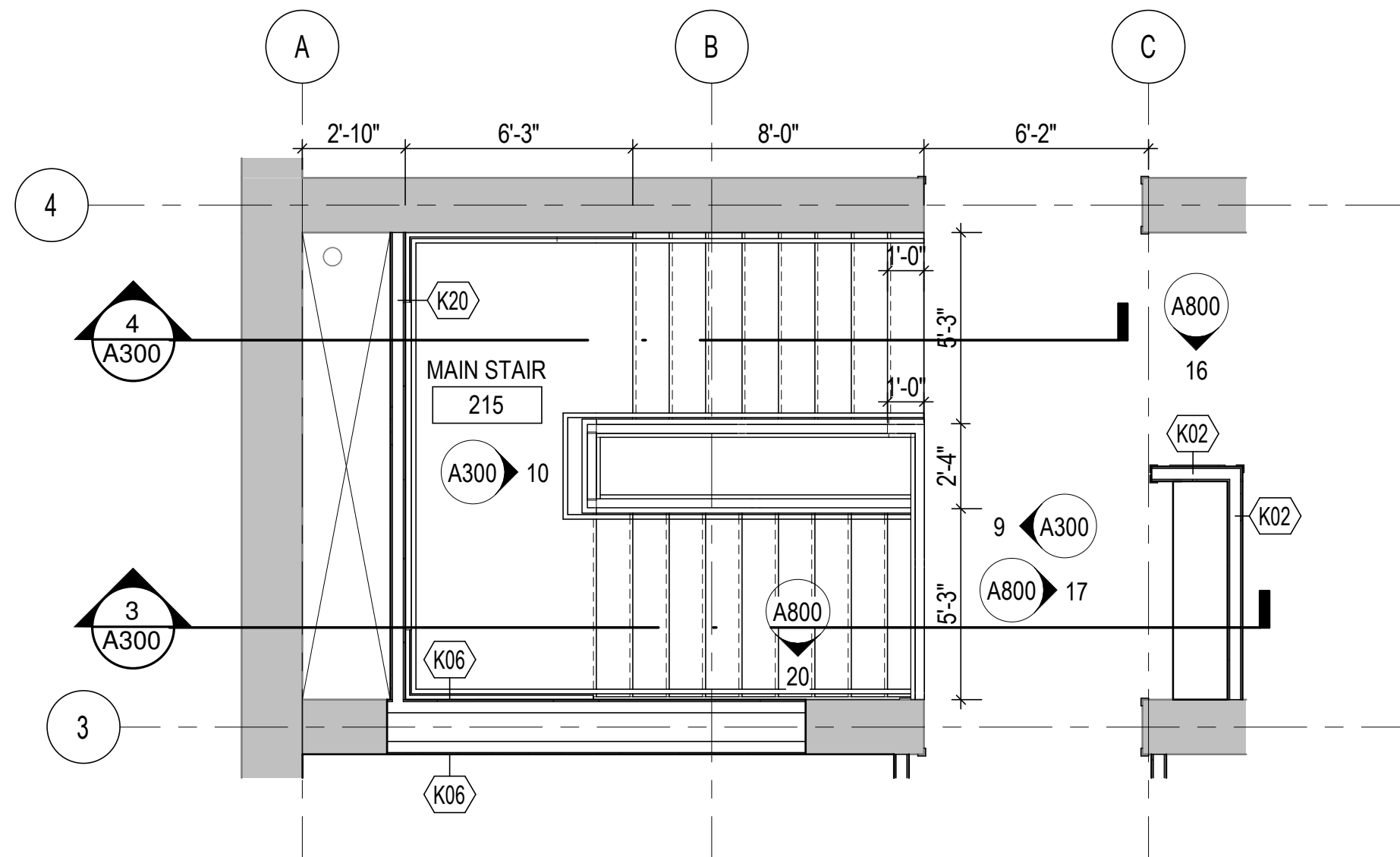
1 1ST FLOOR - REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"



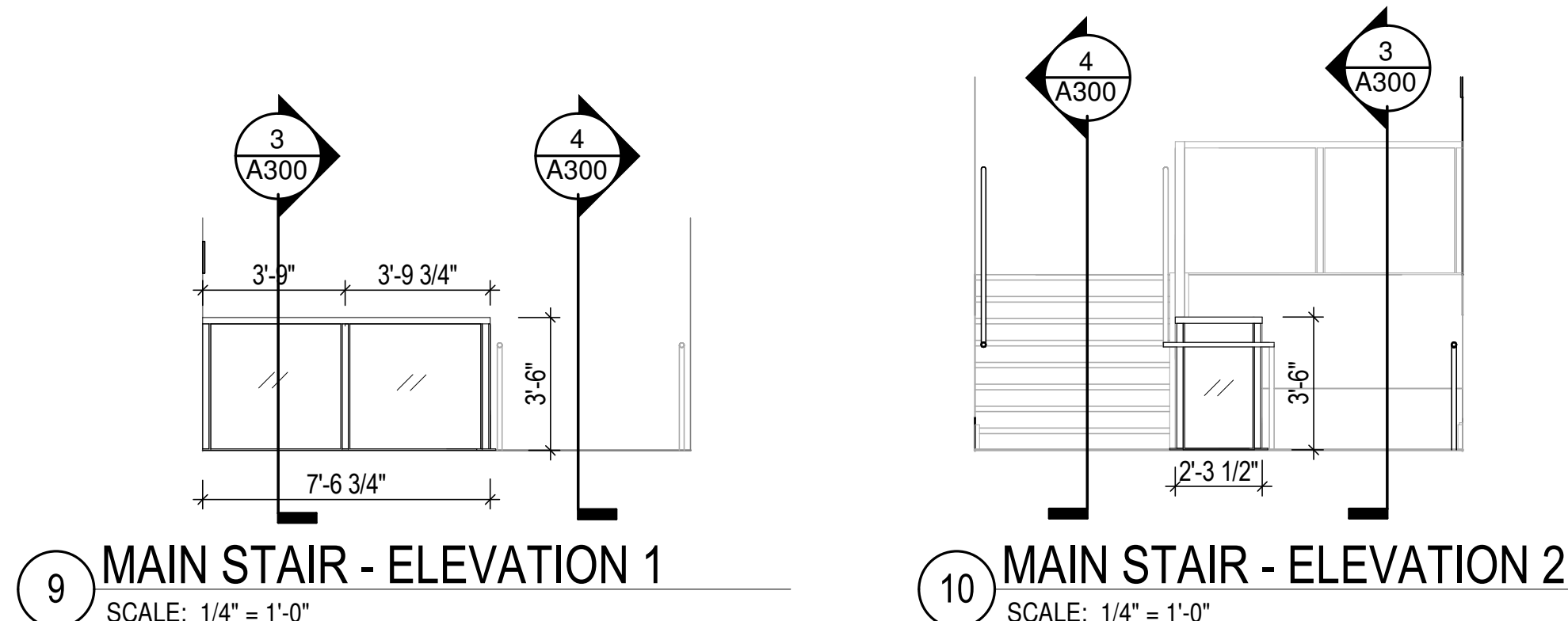
2 2ND FLOOR - REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"



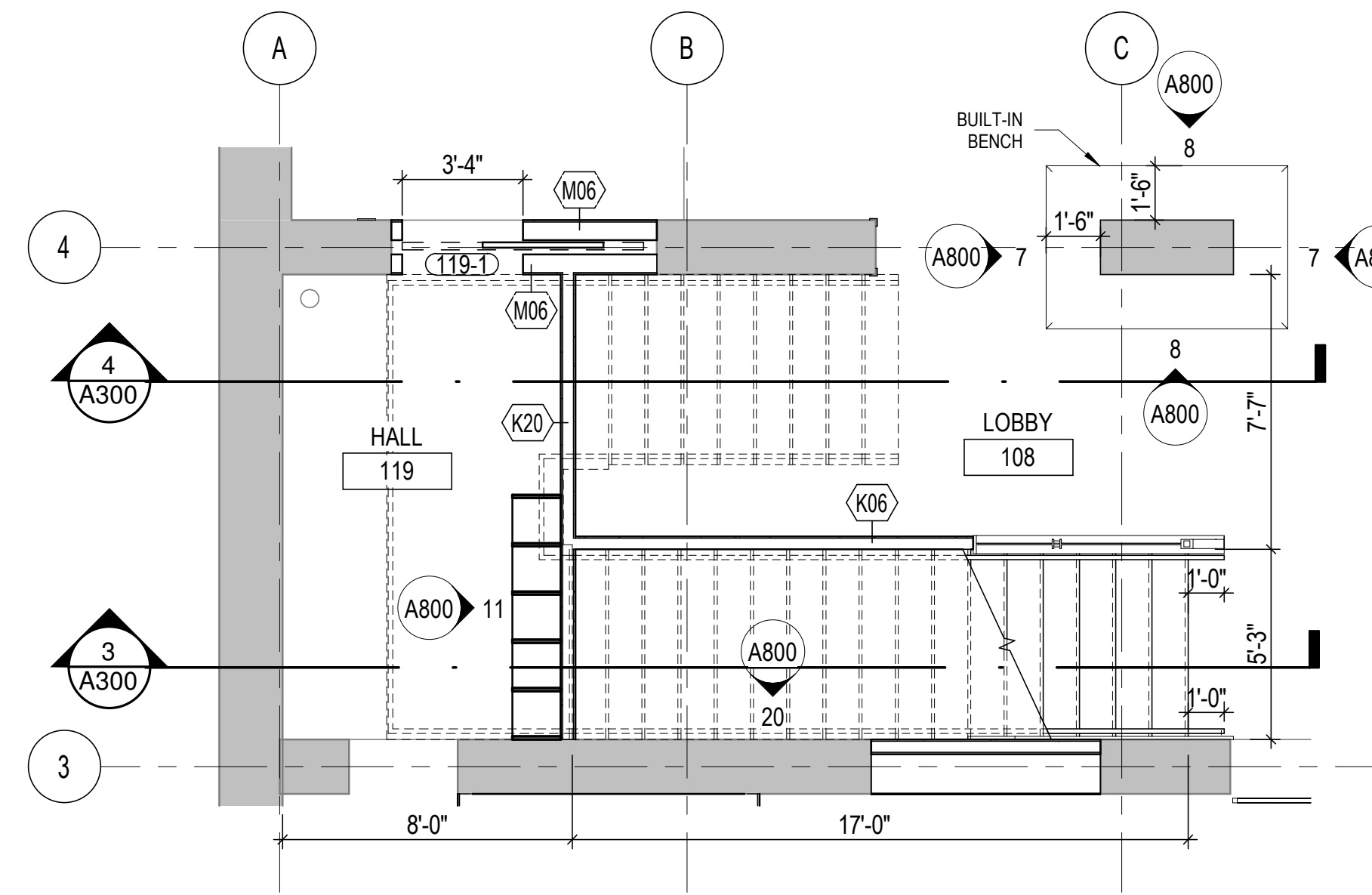
3 3RD FLOOR - REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"



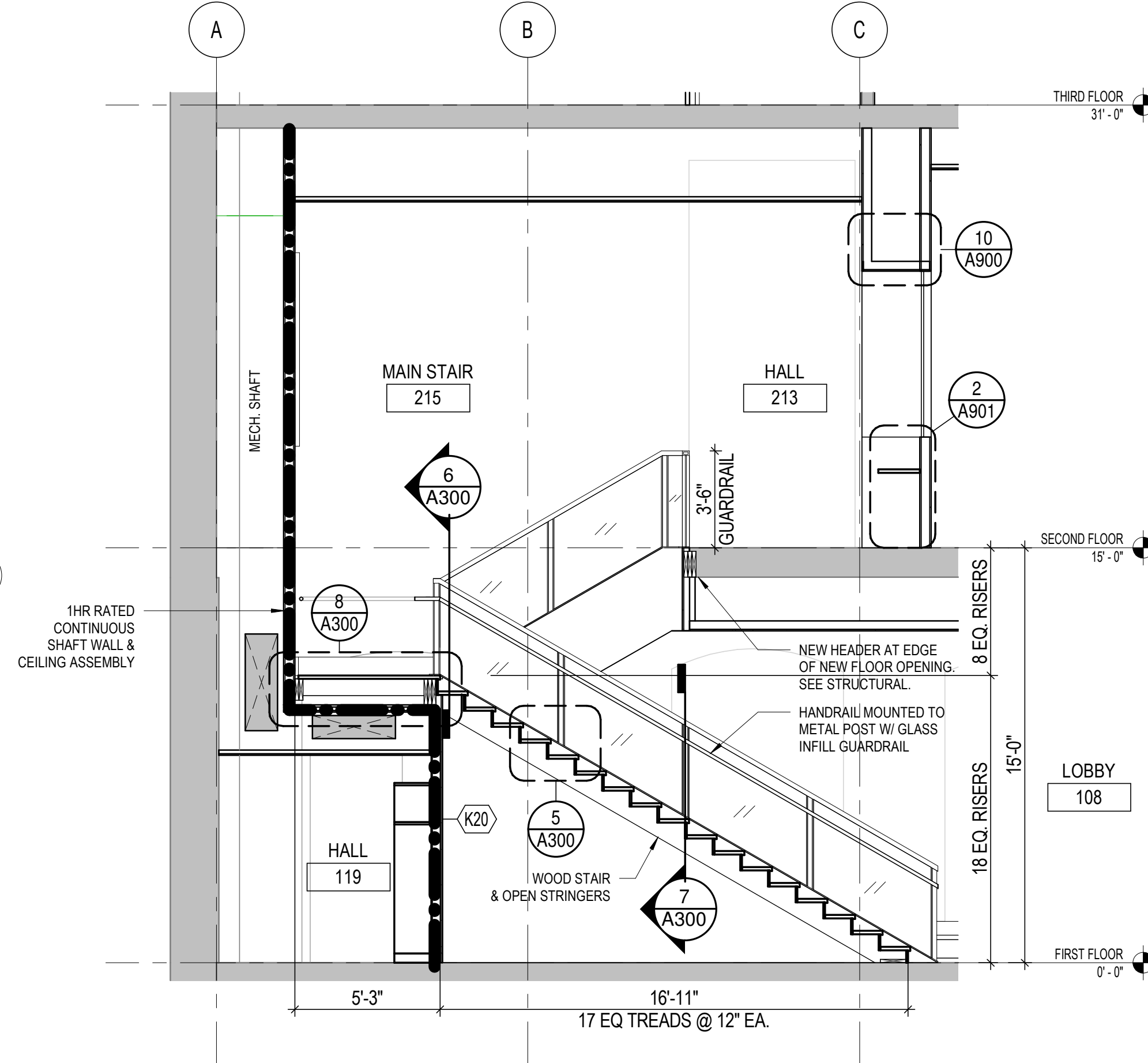
1 MAIN STAIR - ENLARGED 2ND FLOOR PLAN
SCALE: 1/4" = 1'-0"



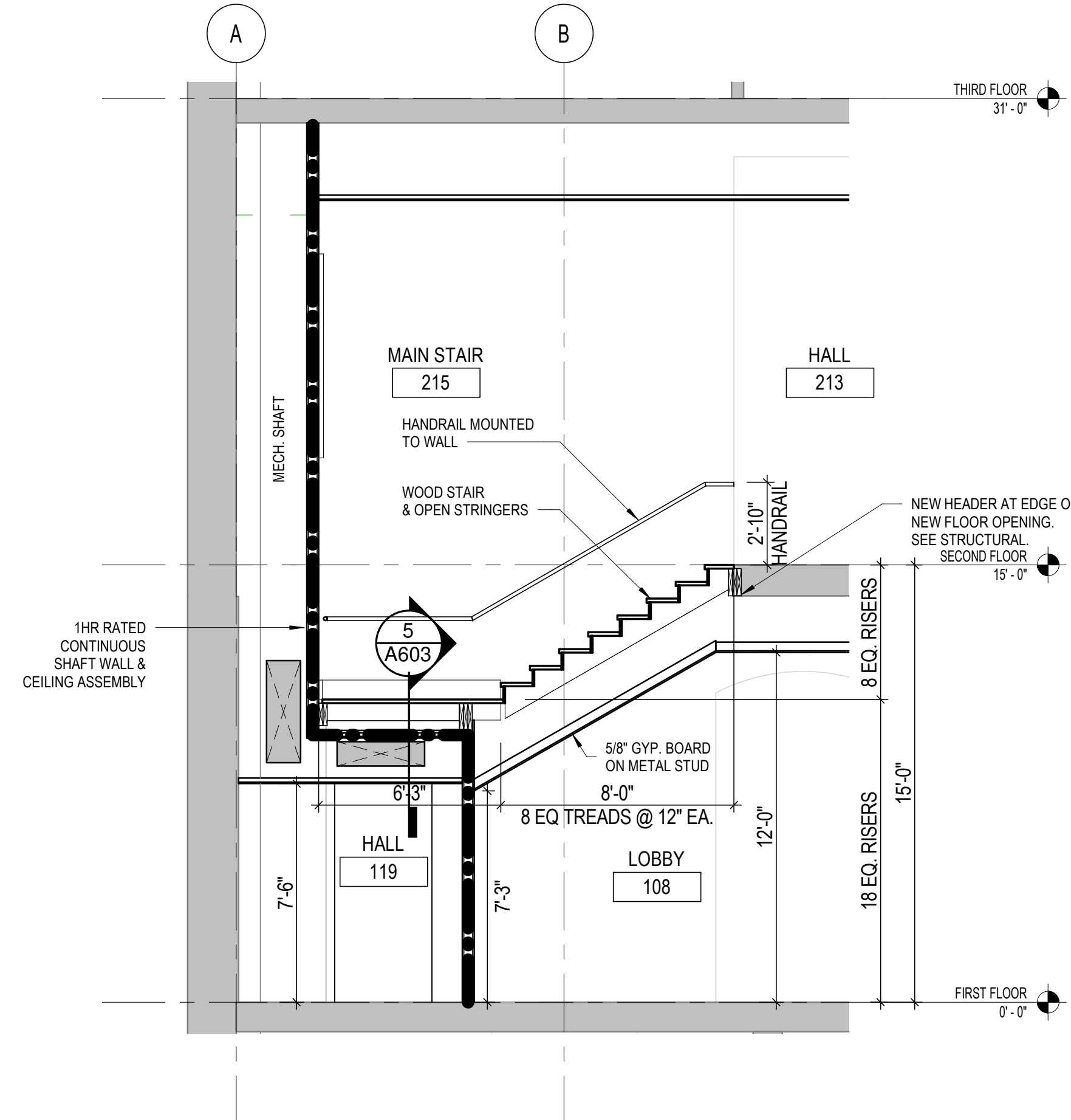
9 MAIN STAIR - ELEVATION 1 SCALE: 1/4" = 1'-0"
10 MAIN STAIR - ELEVATION 2 SCALE: 1/4" = 1'-0"



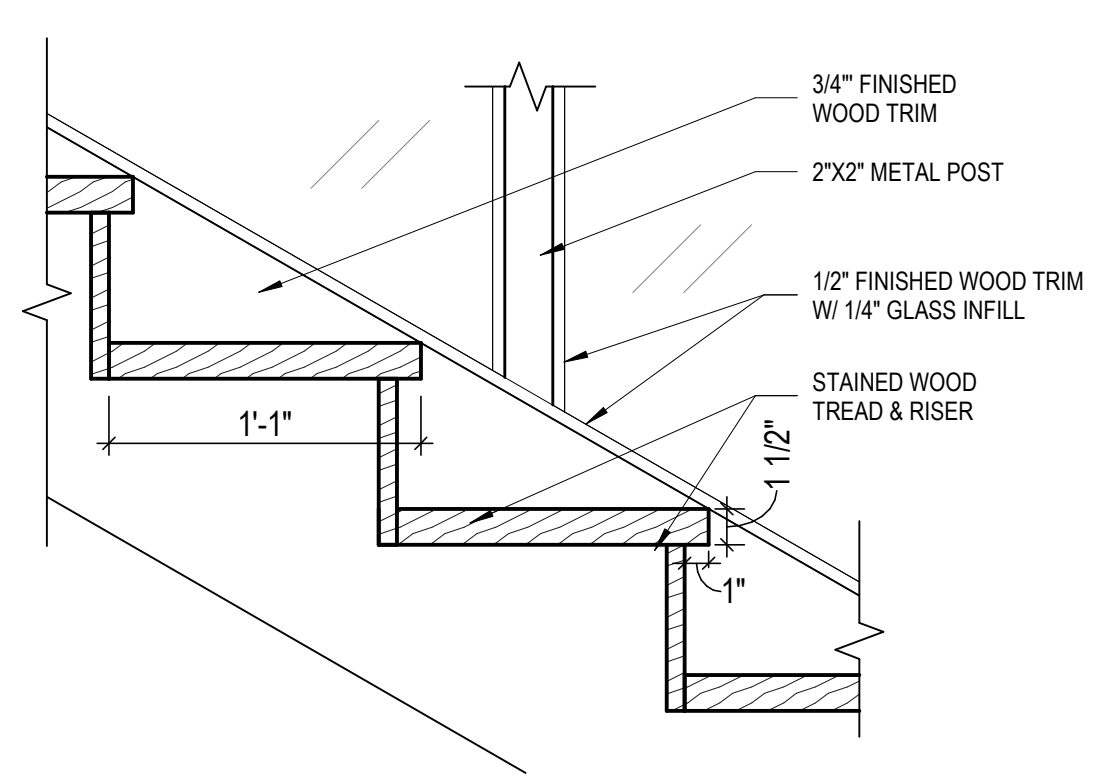
2 MAIN STAIR - ENLARGED 1ST FLOOR PLAN
SCALE: 1/4" = 1'-0"



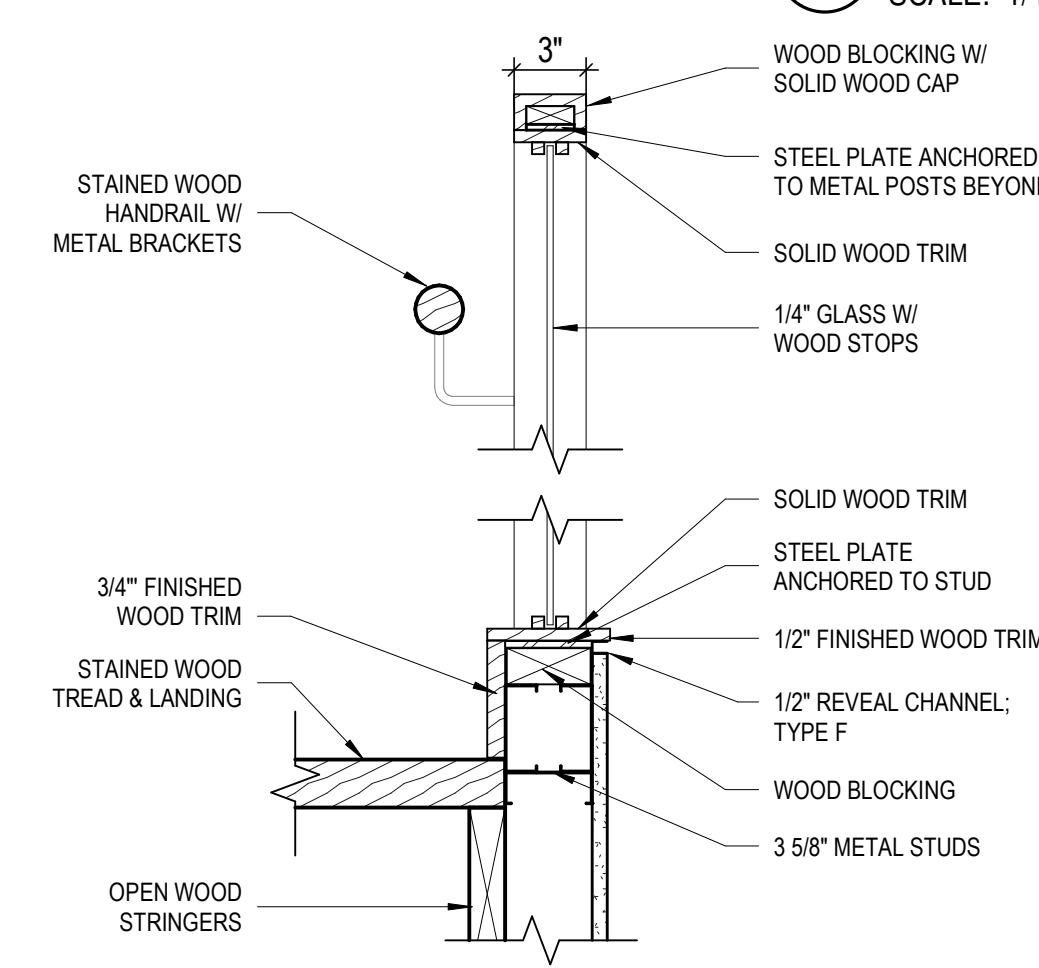
3 MAIN STAIR - SECTION 1
SCALE: 1/4" = 1'-0"



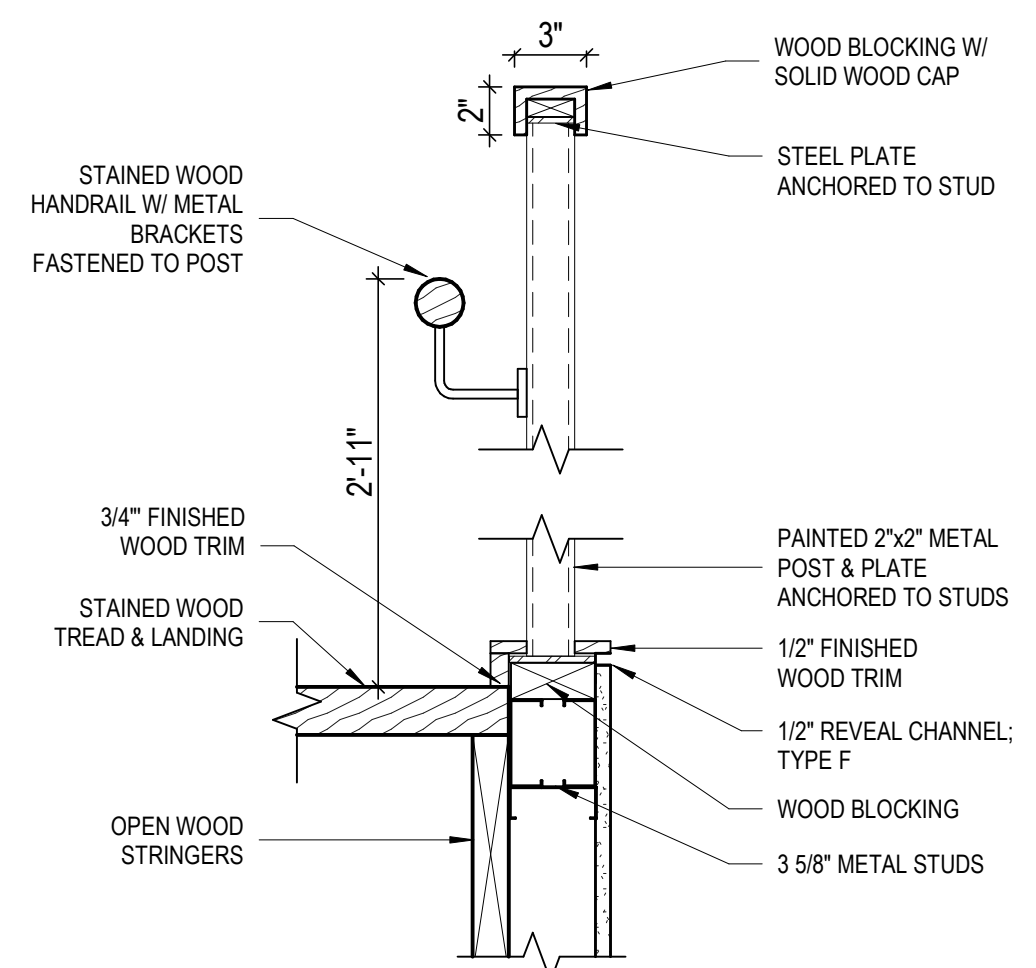
4 MAIN STAIR - SECTION 2
SCALE: 1/4" = 1'-0"



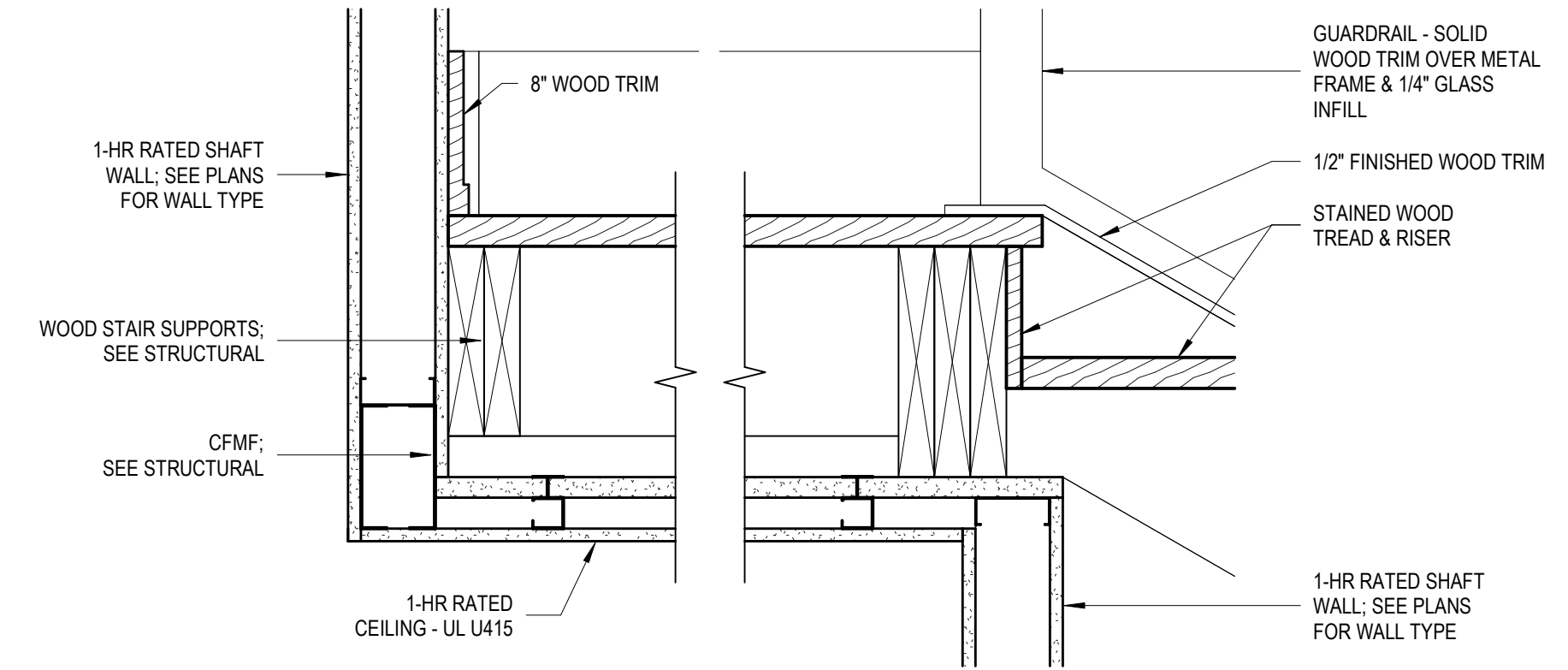
5 MAIN STAIR - DETAIL SECTION
SCALE: 1 1/2" = 1'-0"



6 MAIN STAIR - RAILING DETAIL
SCALE: 1 1/2" = 1'-0"



7 MAIN STAIR - POST DETAIL
SCALE: 1 1/2" = 1'-0"



8 MAIN STAIR LANDING - SECTION
SCALE: 1 1/2" = 1'-0"

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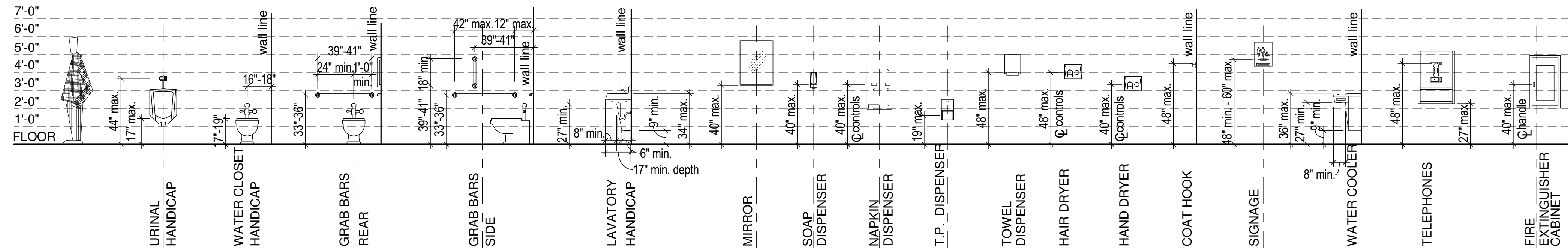
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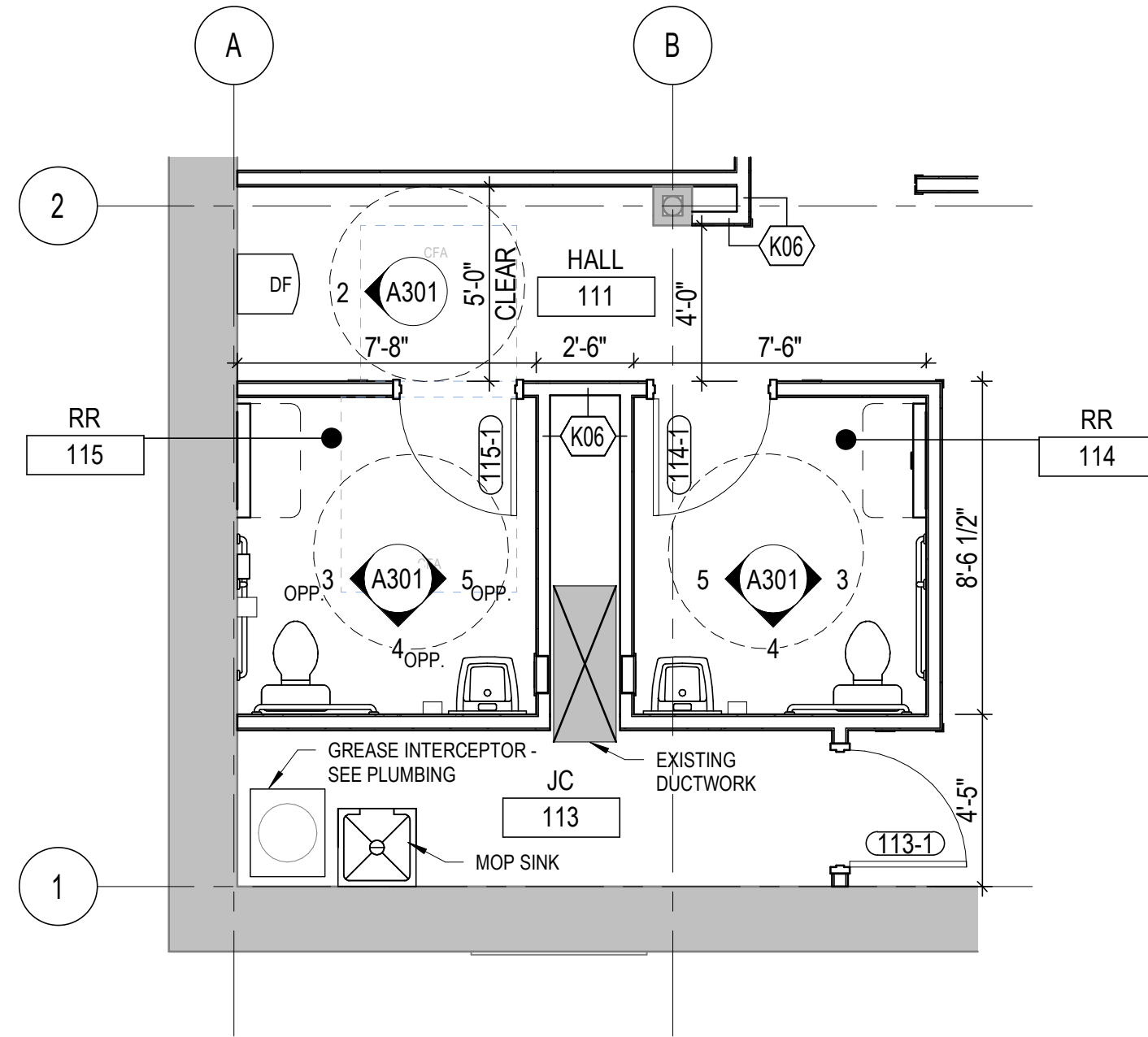
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**ENLARGED STAIR
PLANS, SECTIONS
& DETAILS**

A300

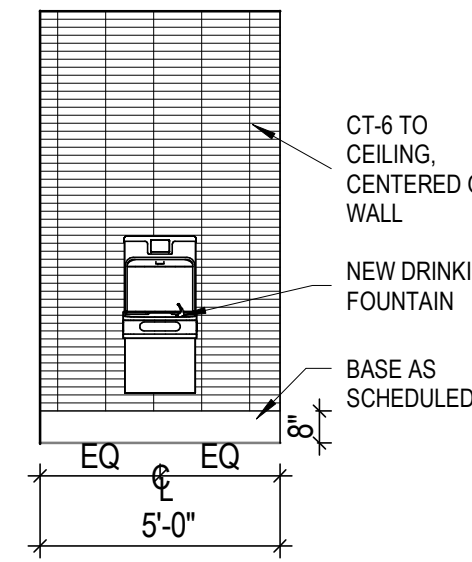


TYPICAL MOUNTING HEIGHTS LEGEND (ANSI)
SCALE: 1/4" = 1'-0"

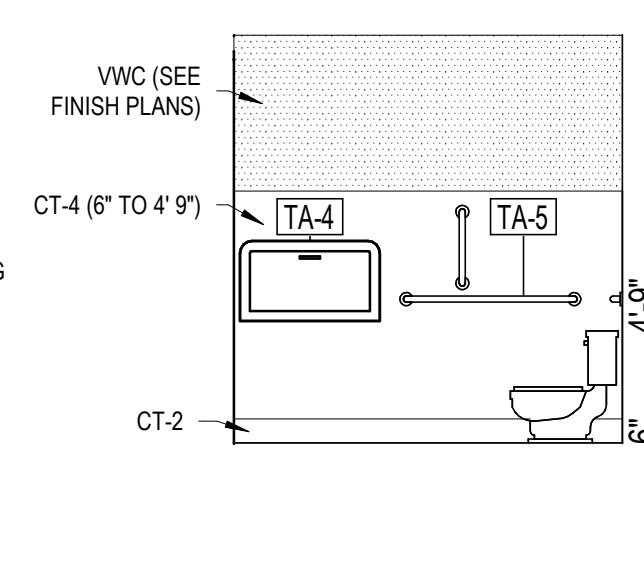


1 RR 114 & 115 - ENLARGED PLAN
SCALE: 1/4" = 1'-0"

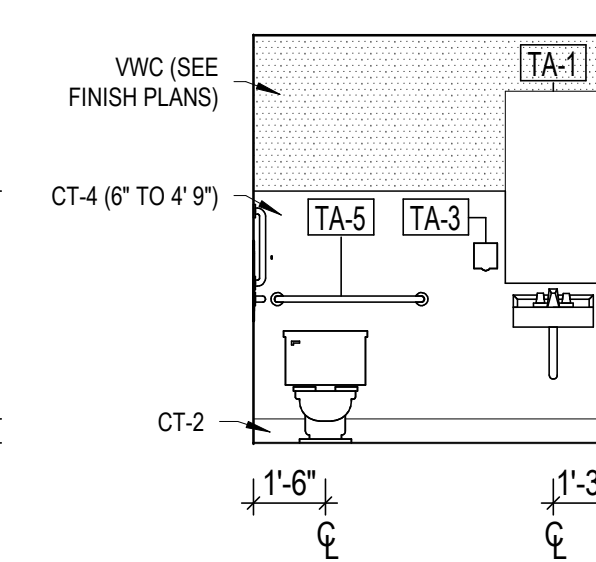
TOILET ACCESSORY LEGEND	
TAG	Comments
TA-1	MIRROR, 24"X 48", BOBRICK B-290
TA-2	COMBINATION PAPER TOWEL DISPENSER/WASTE RECEPTACLE
TA-3	SOAP DISPENSER
TA-4	BABY CHANGING STATION-KOALA KB300
TA-5	HORIZONTAL GRAB BARS WITH VERTICAL GRAB BAR
TA-6	TOILET TISSUE DISPENSER
TA-7	SANITARY NAPKIN DISPOSAL



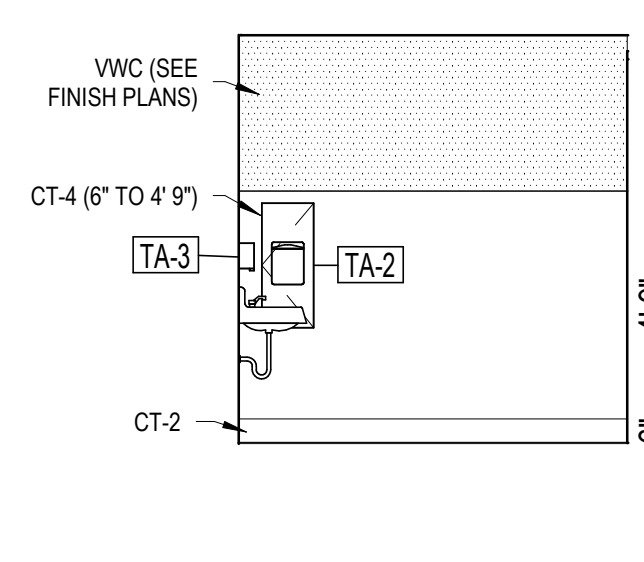
2 HALL 111 - WEST
SCALE: 1/4" = 1'-0"



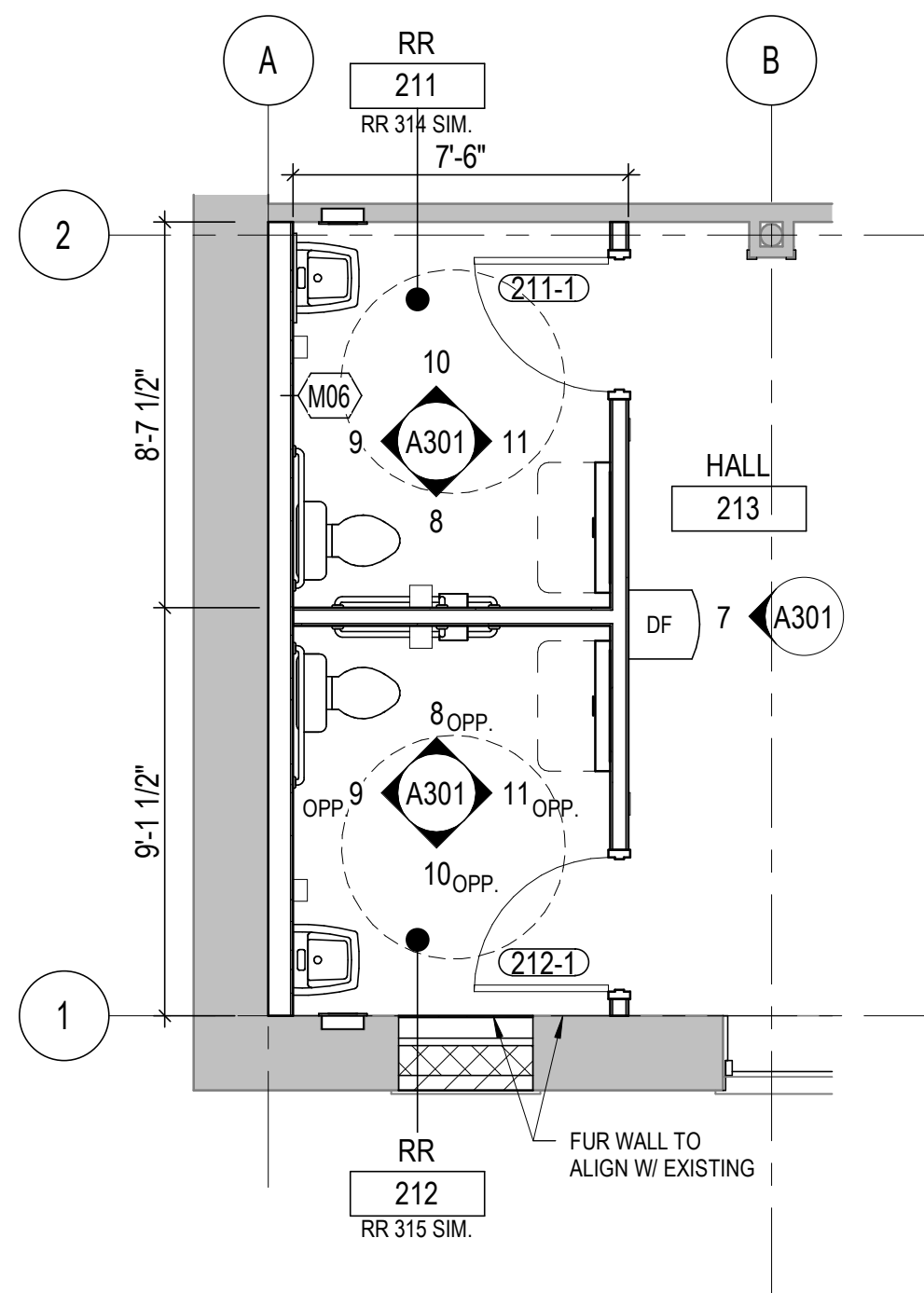
3 RR 114 - EAST
SCALE: 1/4" = 1'-0"



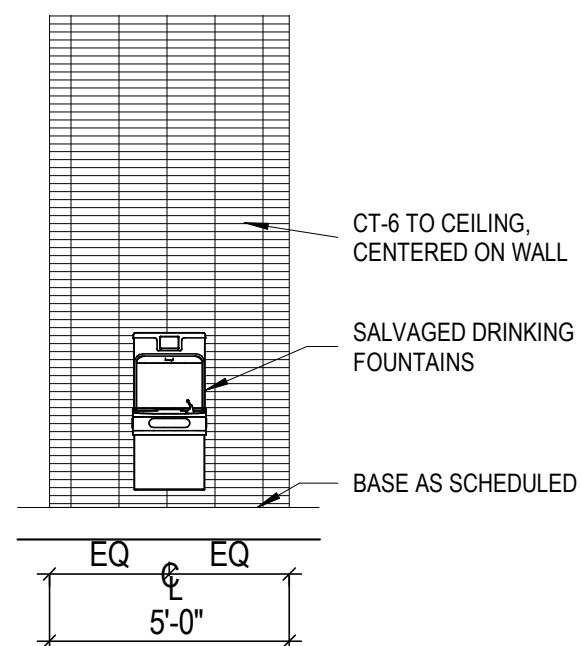
4 RR 114 - SOUTH
SCALE: 1/4" = 1'-0"



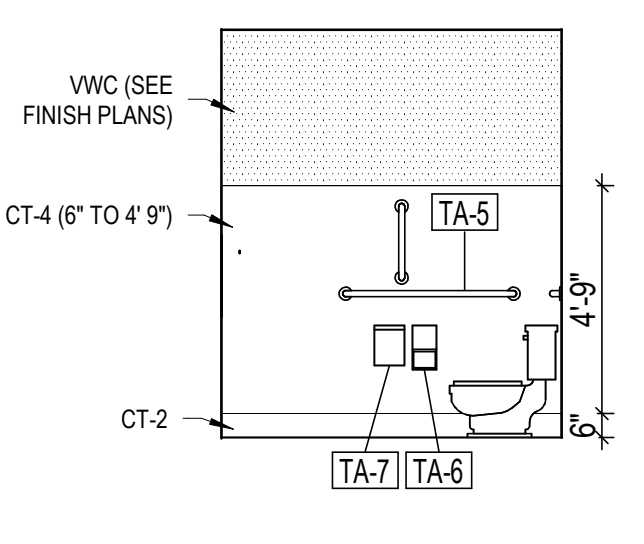
5 RR 114 - WEST
SCALE: 1/4" = 1'-0"



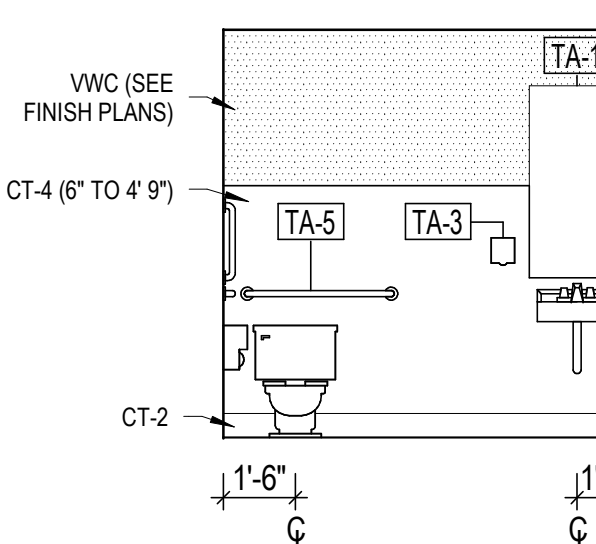
6 RR 211, 212, 314, 315 - ENLARGED PLAN
SCALE: 1/4" = 1'-0"



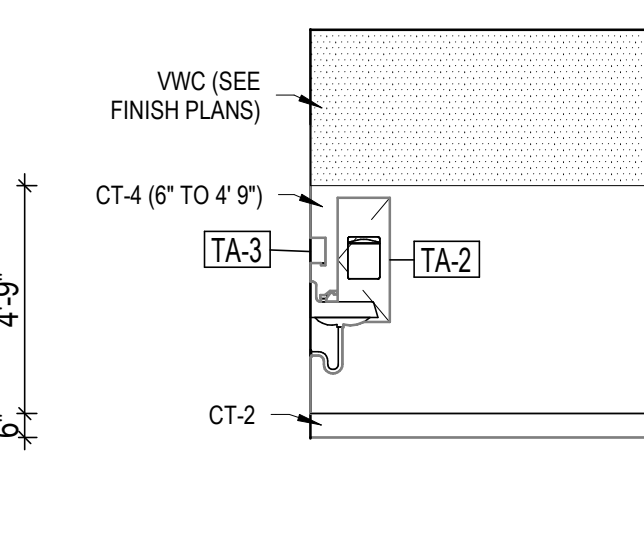
7 HALL 213/ALCOVE 316
SCALE: 1/4" = 1'-0"



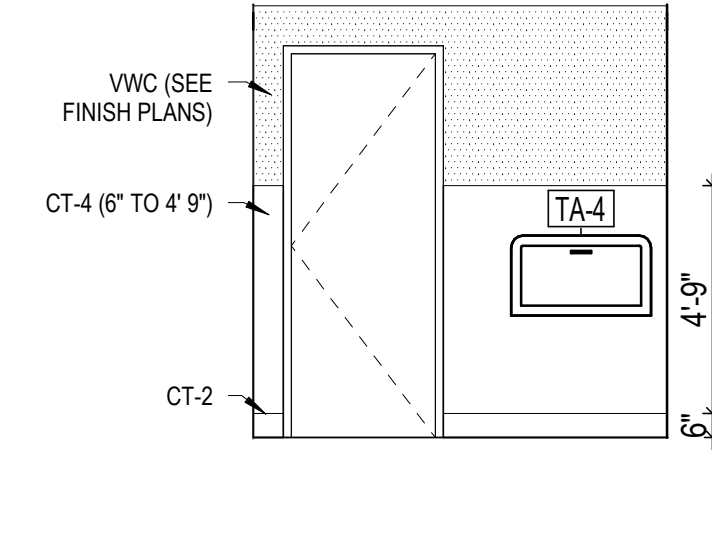
8 RR 211, 314 - SOUTH
SCALE: 1/4" = 1'-0"



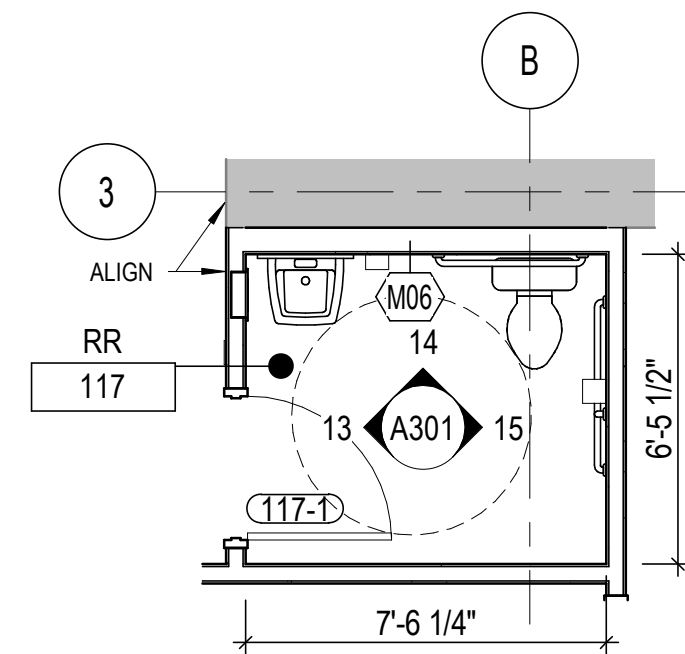
9 RR 211, 314 - WEST
SCALE: 1/4" = 1'-0"



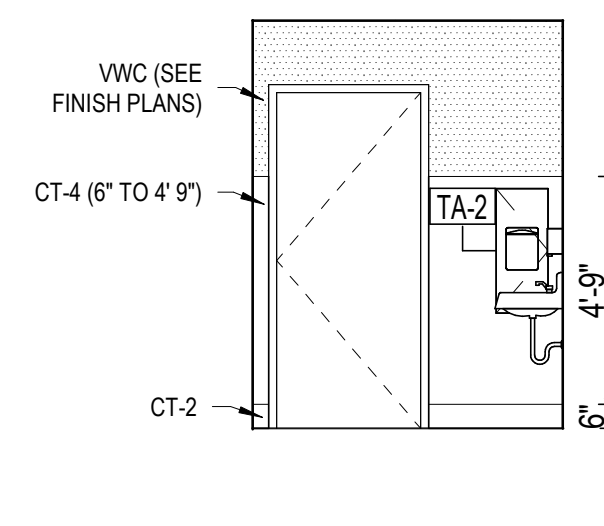
10 RR 211, 314 - NORTH
SCALE: 1/4" = 1'-0"



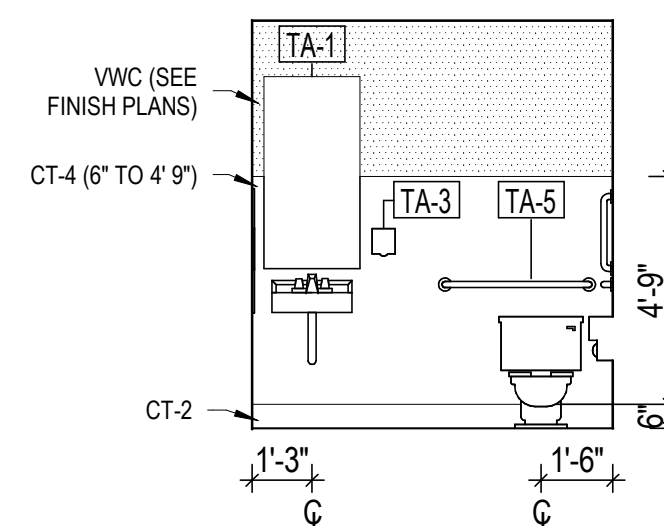
11 RR 211, 314 - EAST
SCALE: 1/4" = 1'-0"



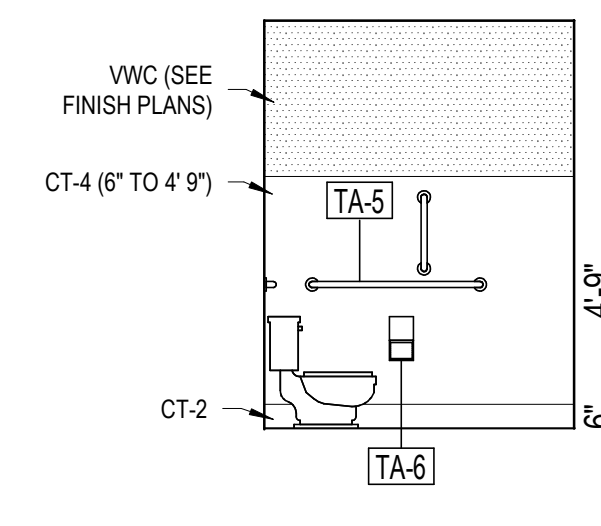
12 RR 117 - ENLARGED PLAN
SCALE: 1/4" = 1'-0"



13 RR 117 - WEST
SCALE: 1/4" = 1'-0"



14 RR 117 - NORTH
SCALE: 1/4" = 1'-0"



15 RR 117 - EAST
SCALE: 1/4" = 1'-0"

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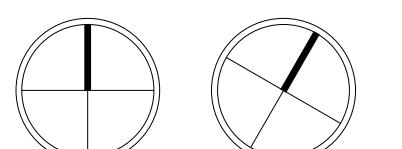
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**ENLARGED
RESTROOM PLANS
& ELEVATIONS**



Plan North True North

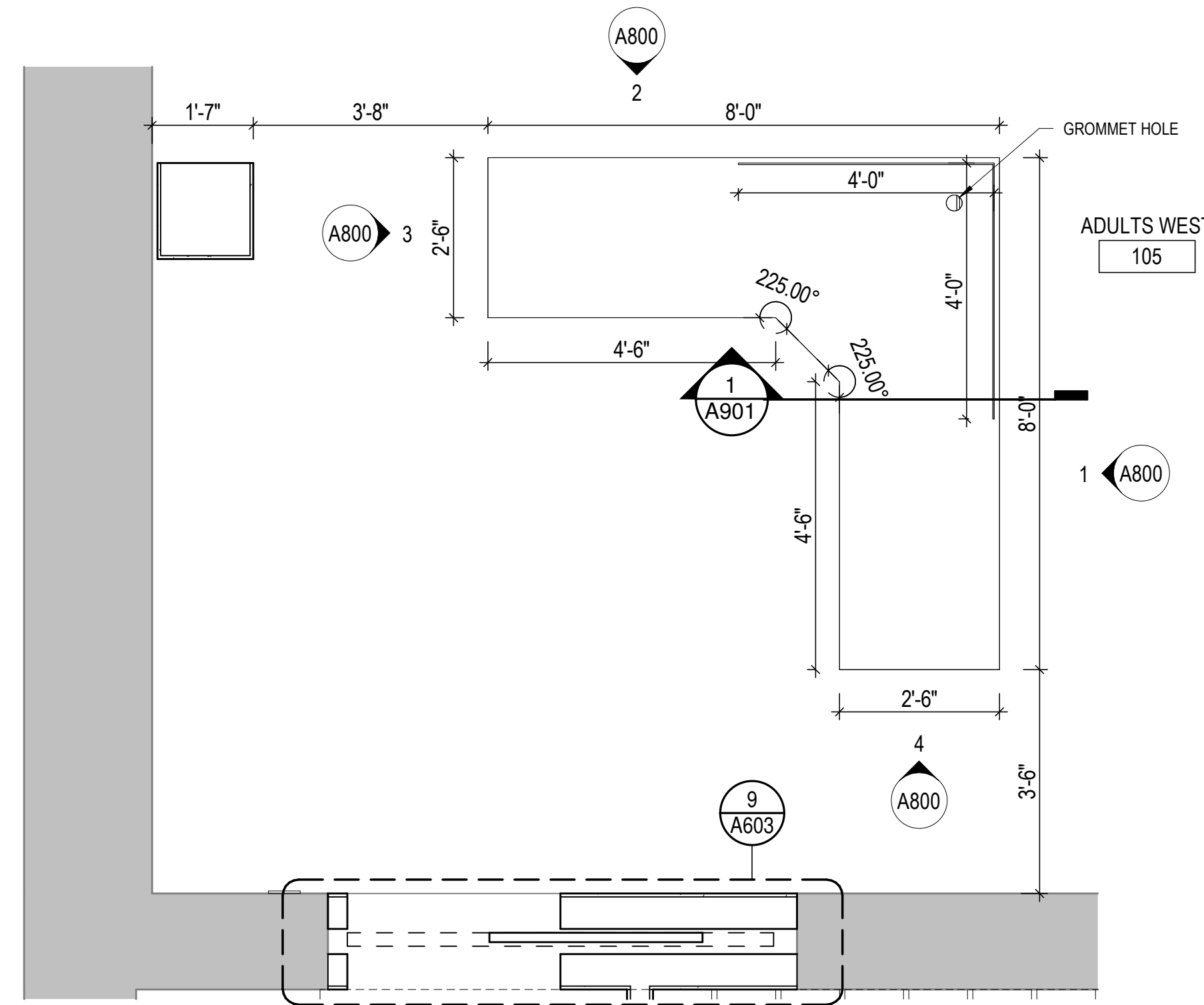
A301

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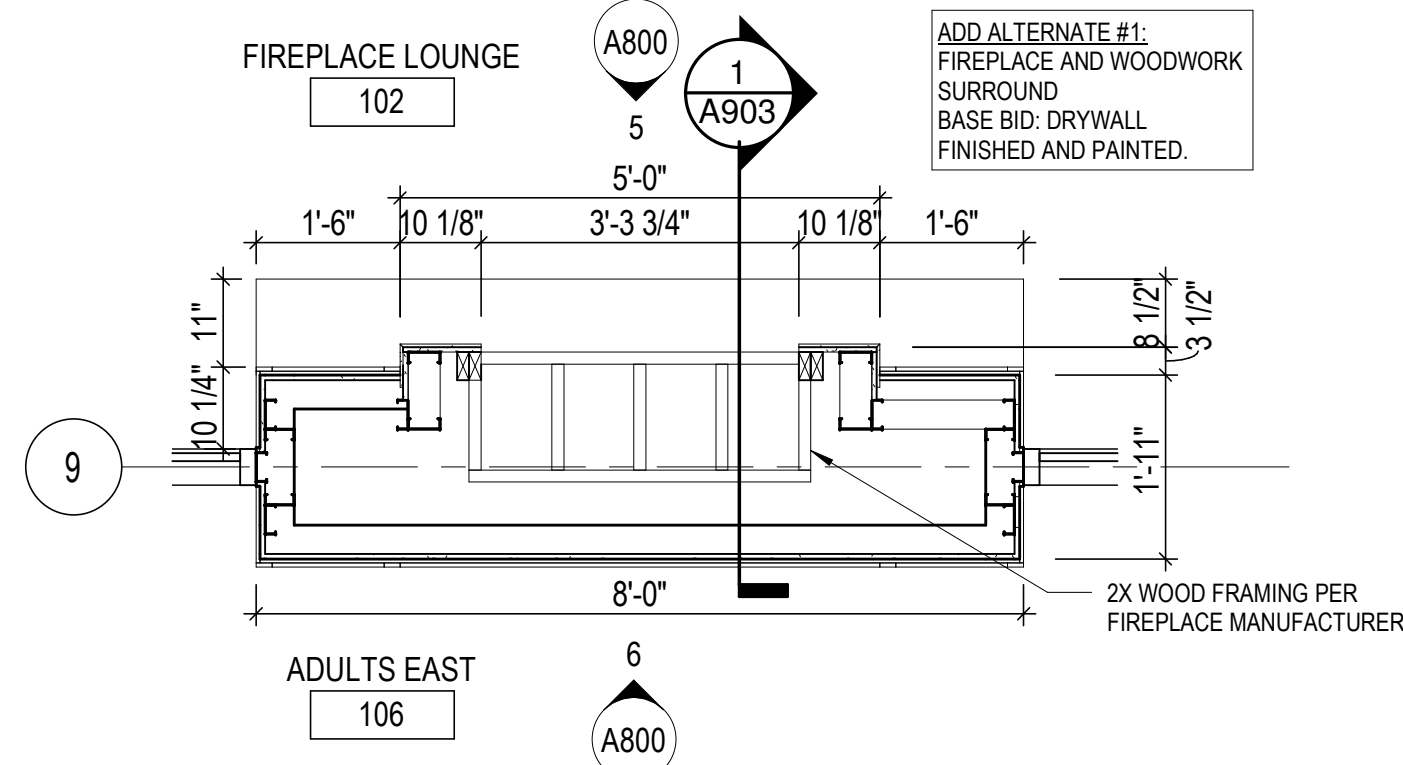
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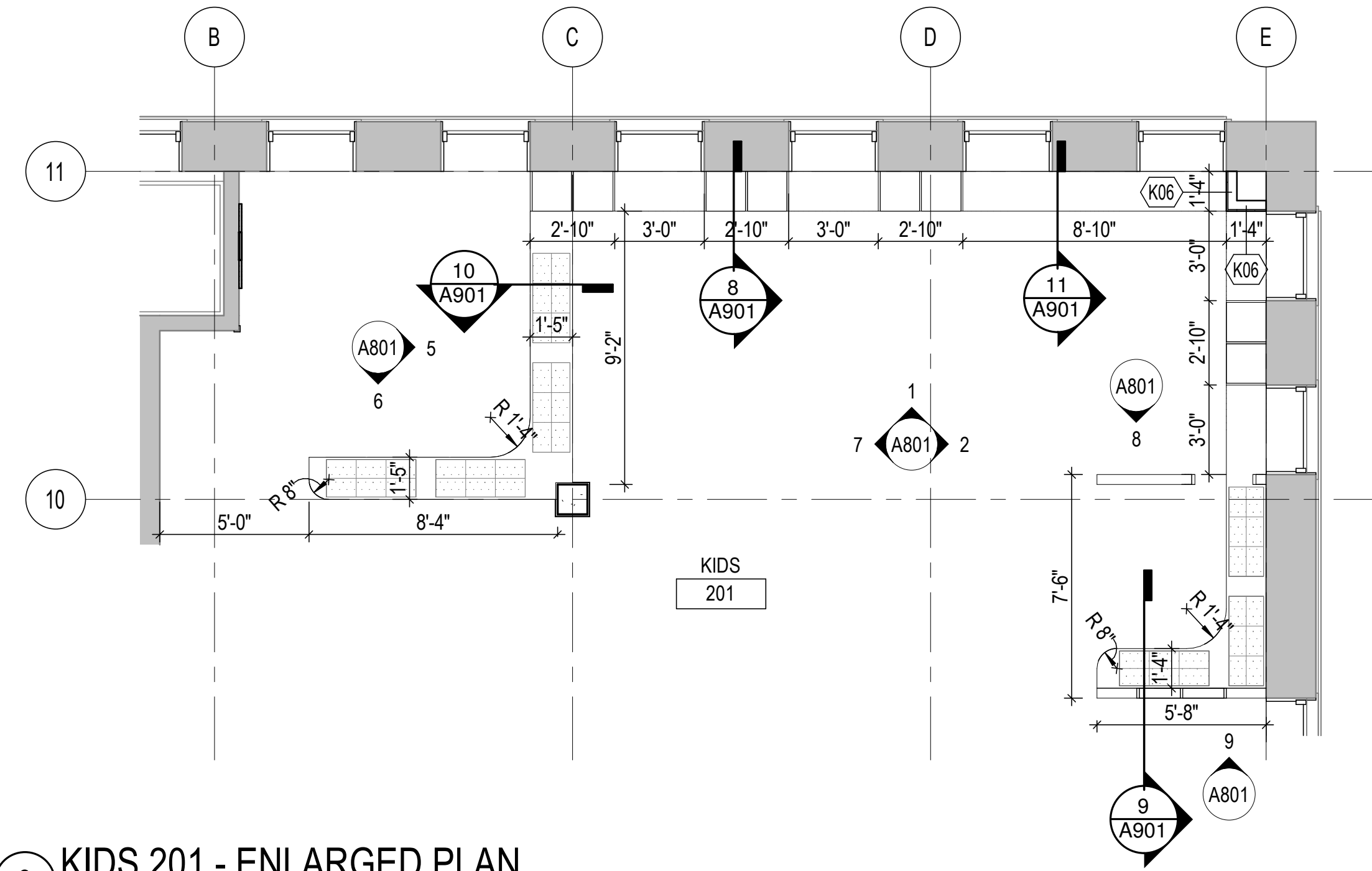
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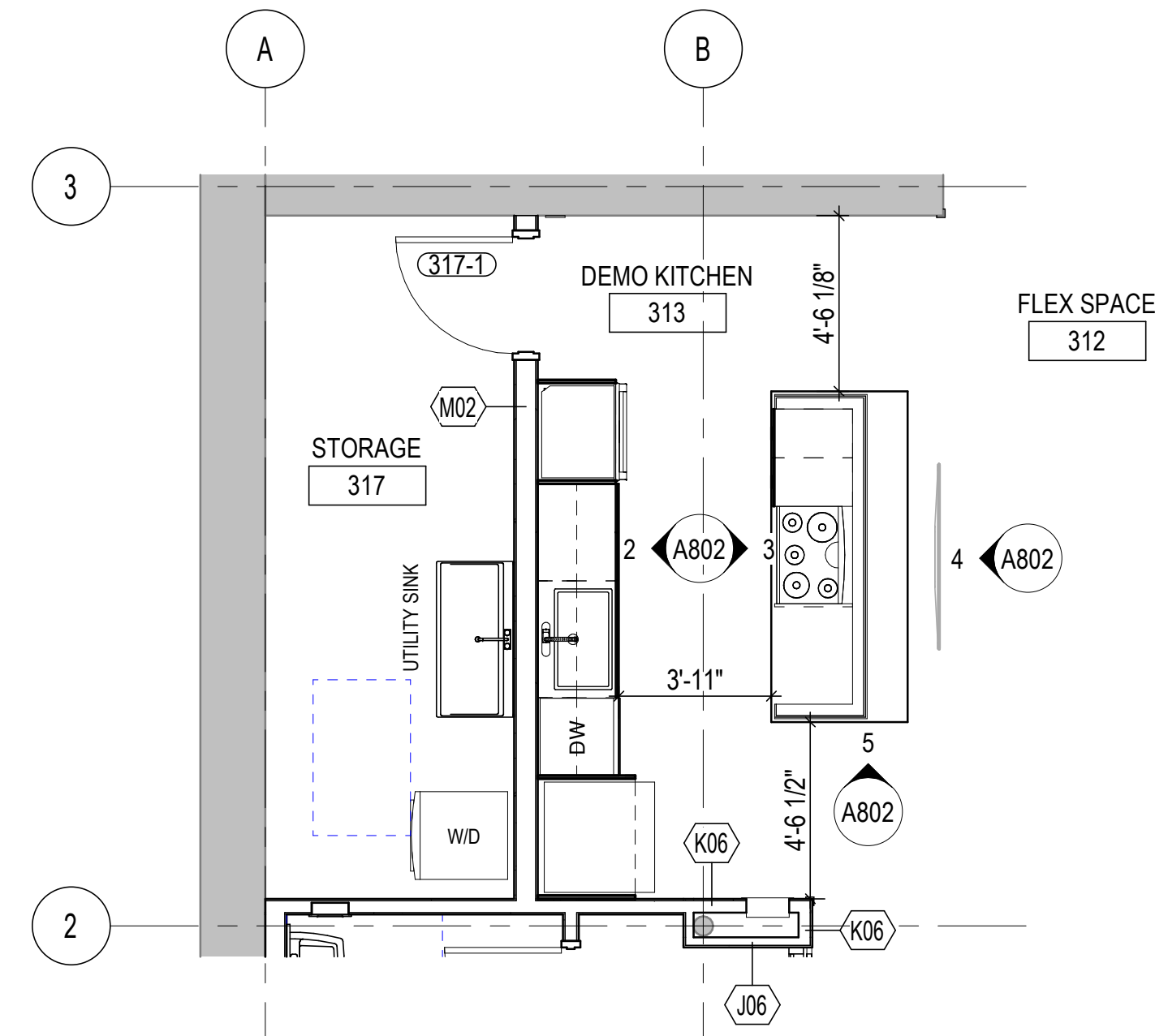
1 ENLARGED CIRCULATION DESK PLAN
SCALE: 1/2" = 1'-0"



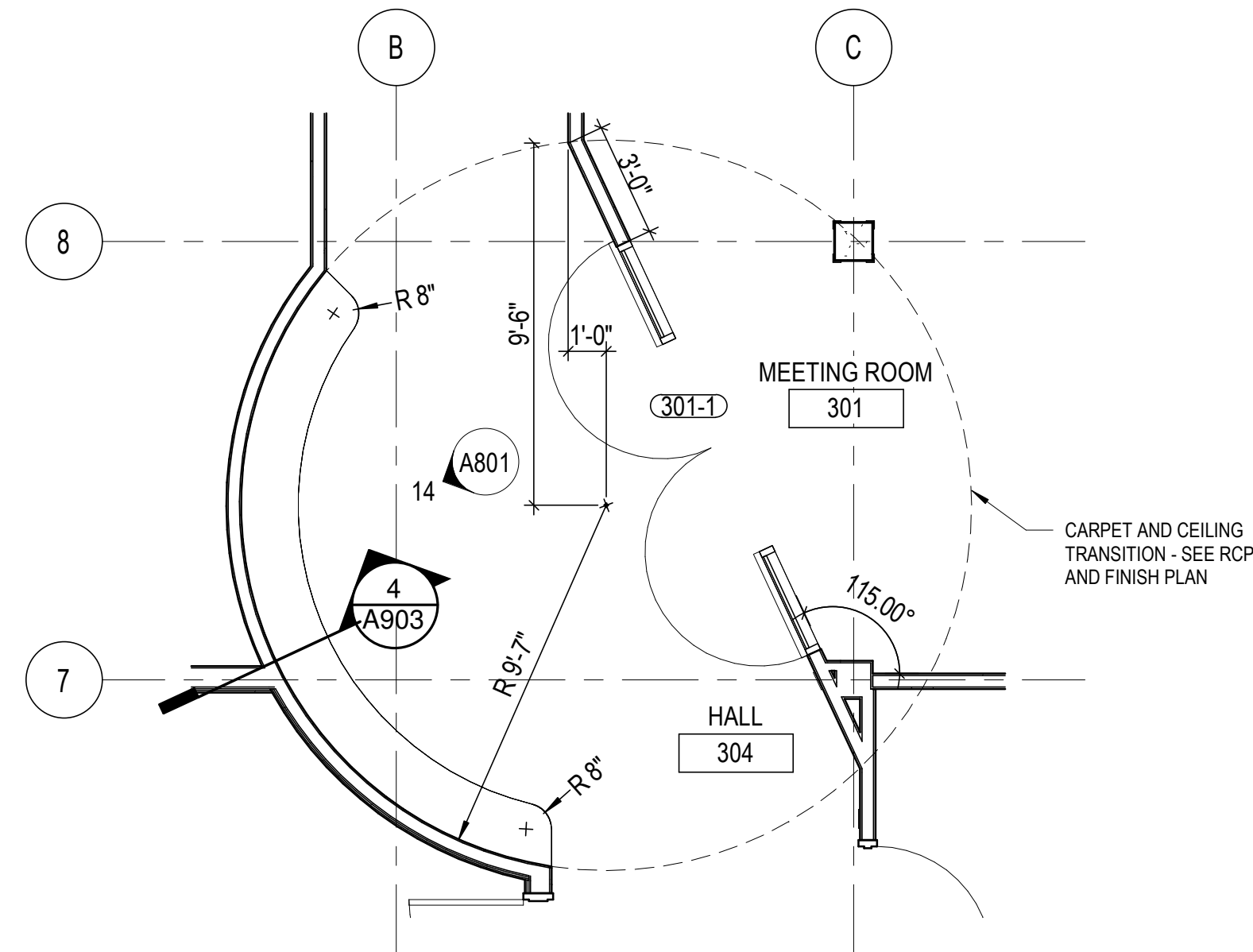
2 FIREPLACE LOUNGE 102 - ENLARGED PLAN
SCALE: 1/2" = 1'-0"



3 KIDS 201 - ENLARGED PLAN
SCALE: 1/4" = 1'-0"



4 DEMO KITCHEN 313 - ENLARGED PLAN
SCALE: 1/4" = 1'-0"



5 HALL 304 - ENLARGED PLAN
SCALE: 1/4" = 1'-0"

1 A802

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ENLARGED PLANS

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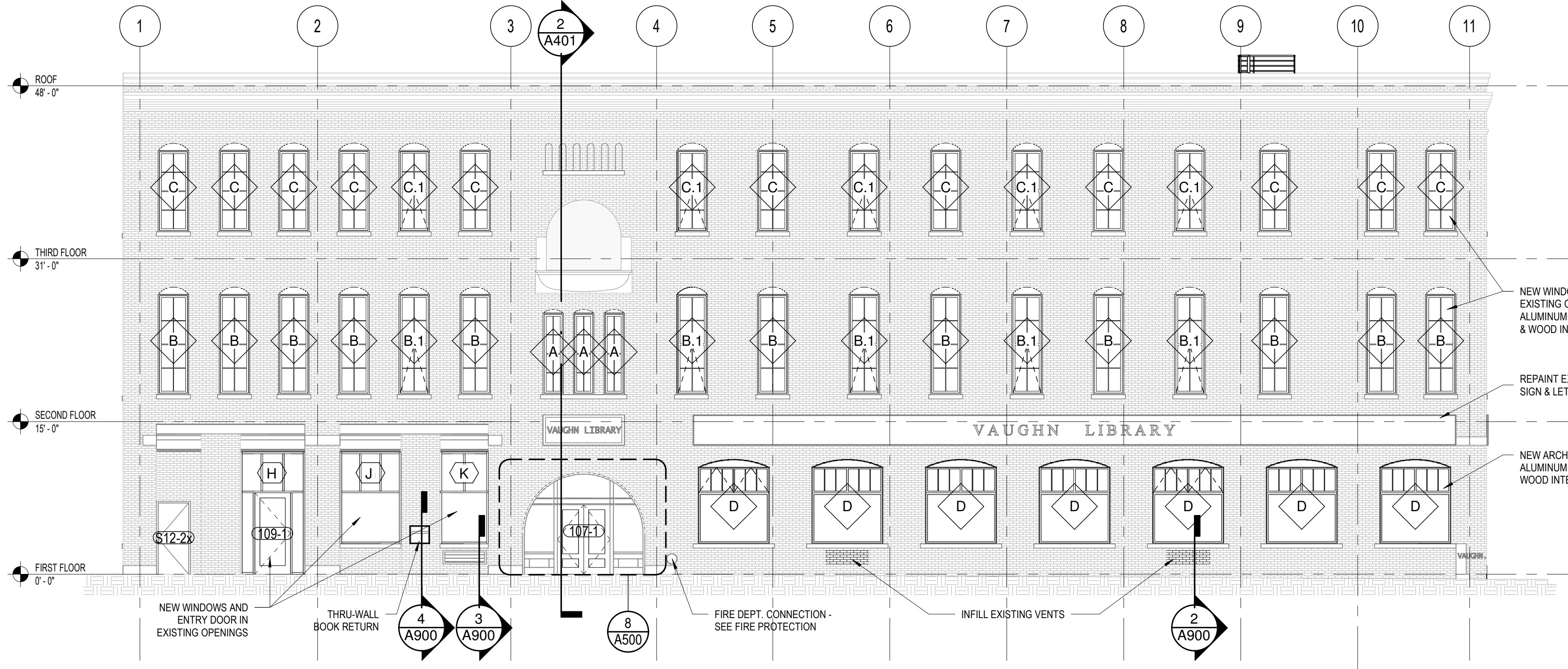
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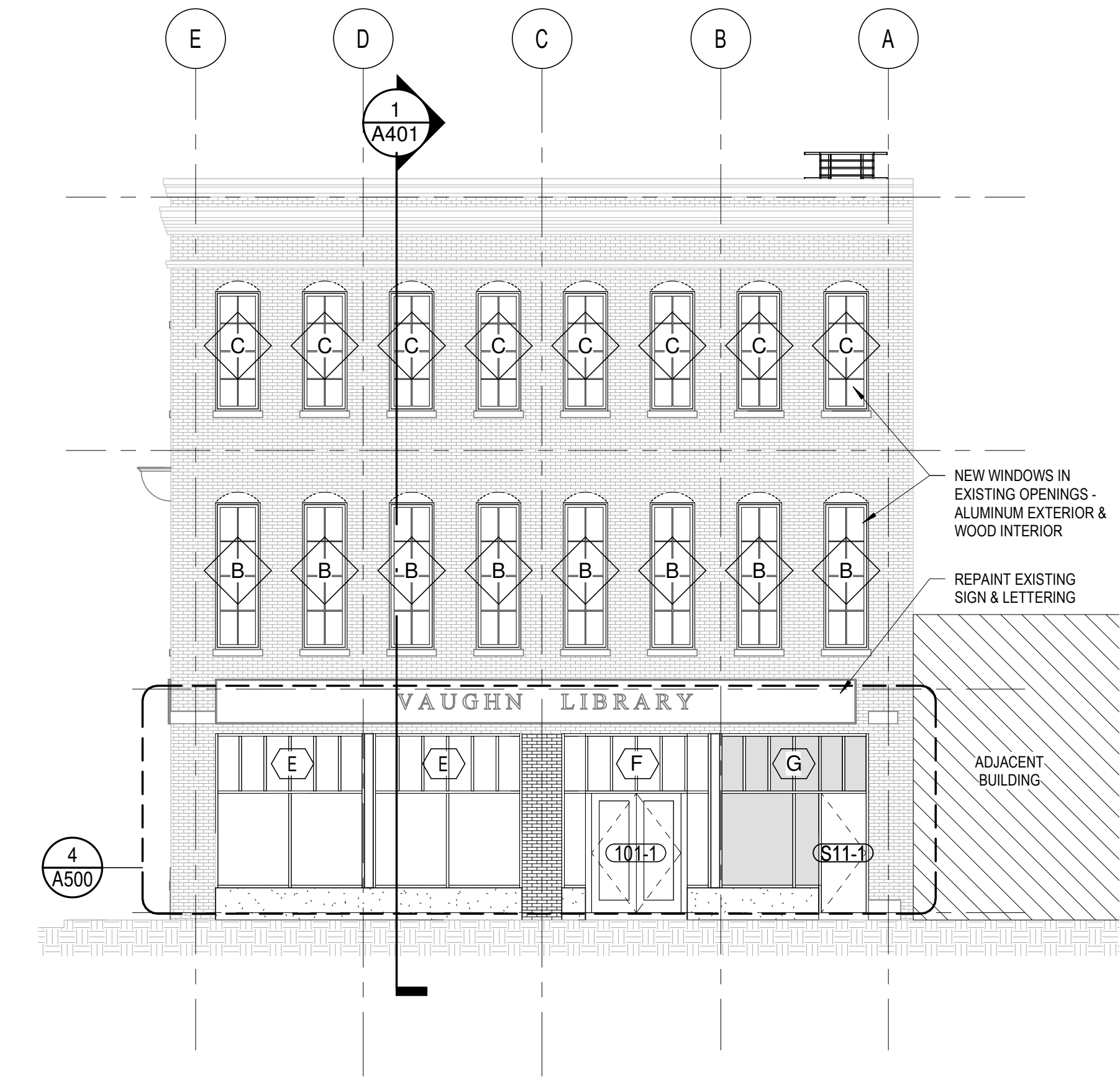
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**BUILDING
ELEVATIONS**

A400



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



2 NORTH ELEVATION
SCALE: 1/8" = 1'-0"

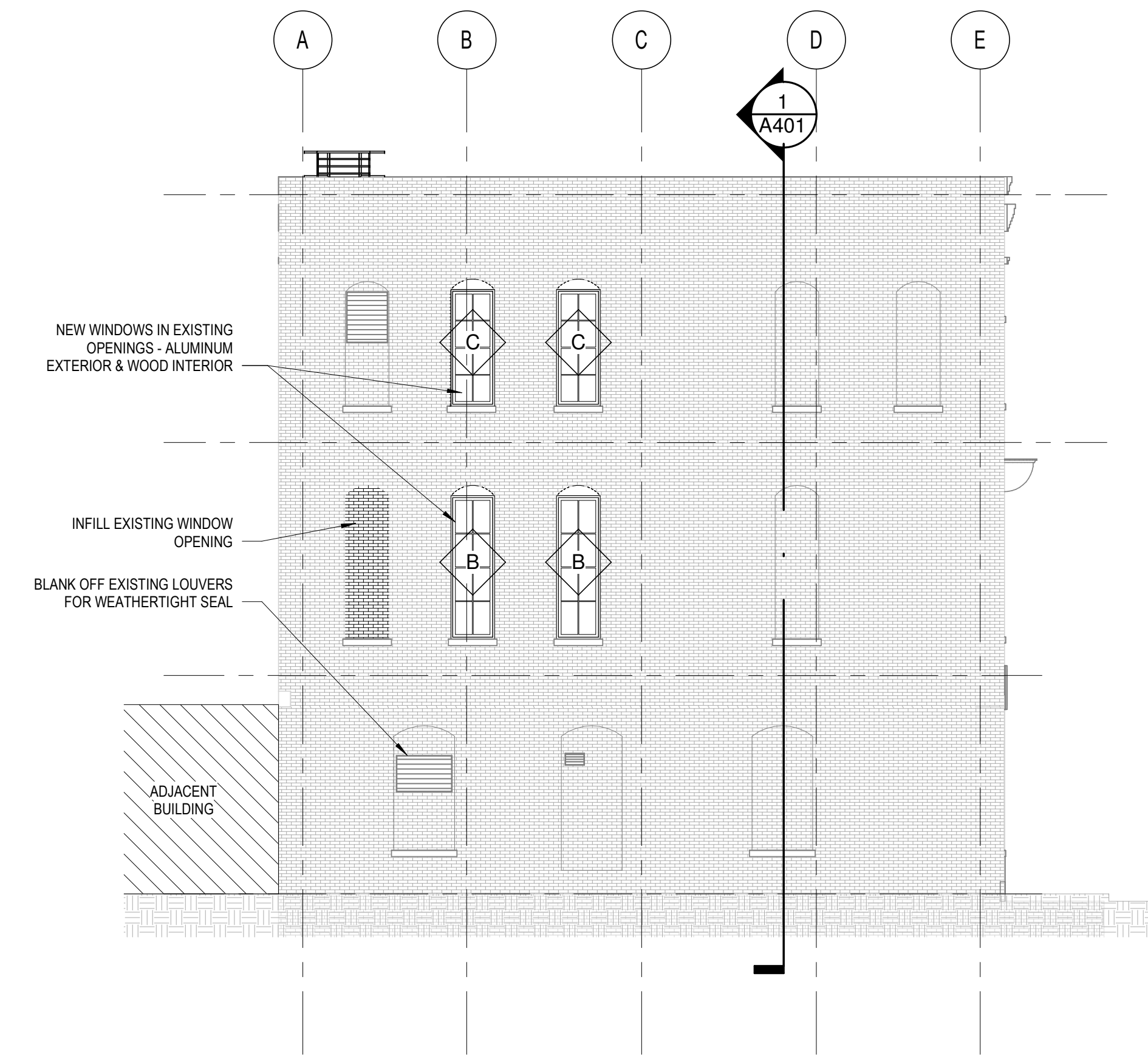
GENERAL NOTE FOR ALL FACADES:
BRICK TO BE INSPECTED FOR REPOINTING MORTAR AND
REPLACEMENT OF DETERIORATED BRICK.

SEE SPECIFICATIONS FOR ASSUMED QUANTITIES AND
METHOD FOR ADJUSTING USING UNIT PRICING.

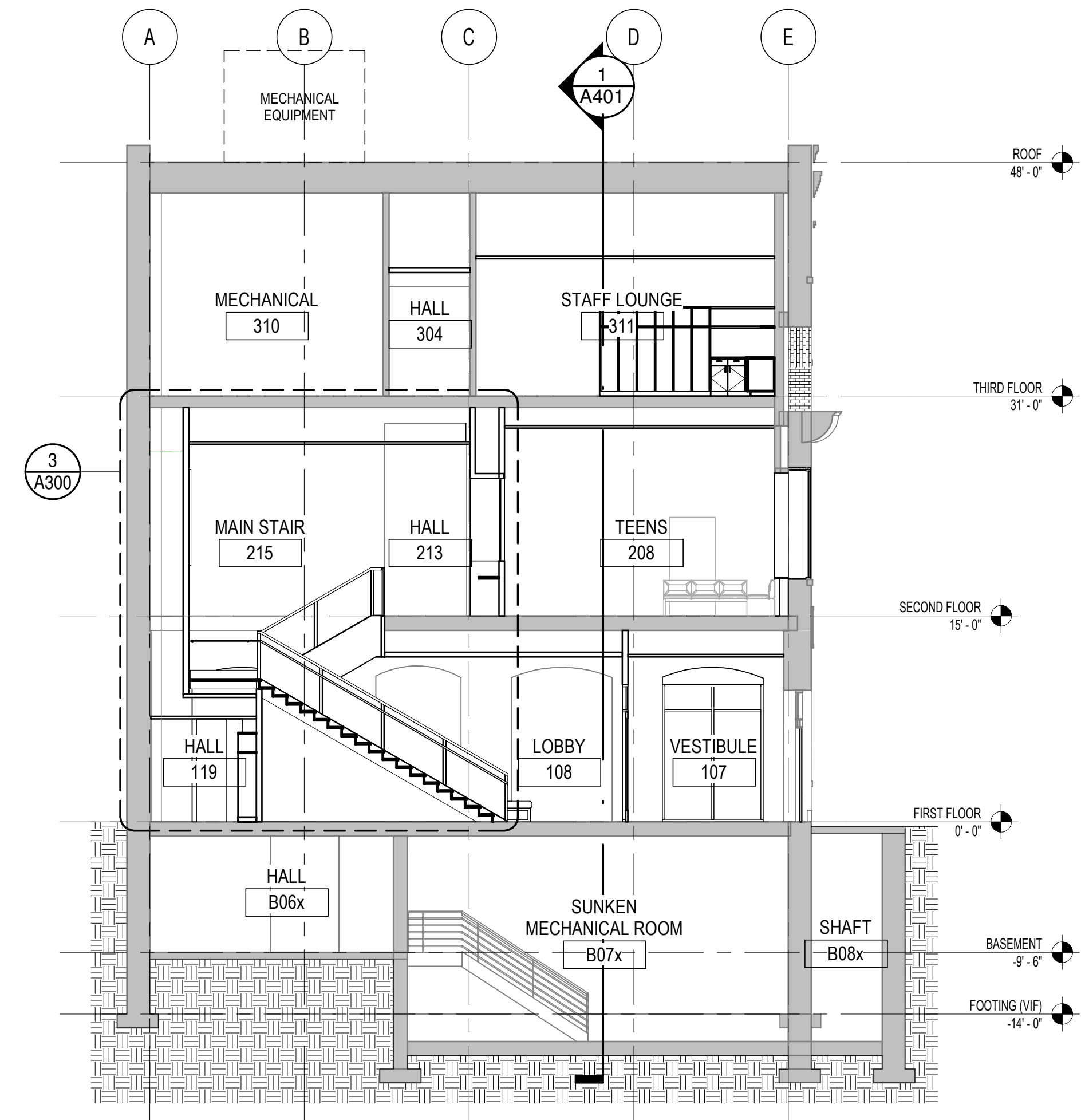
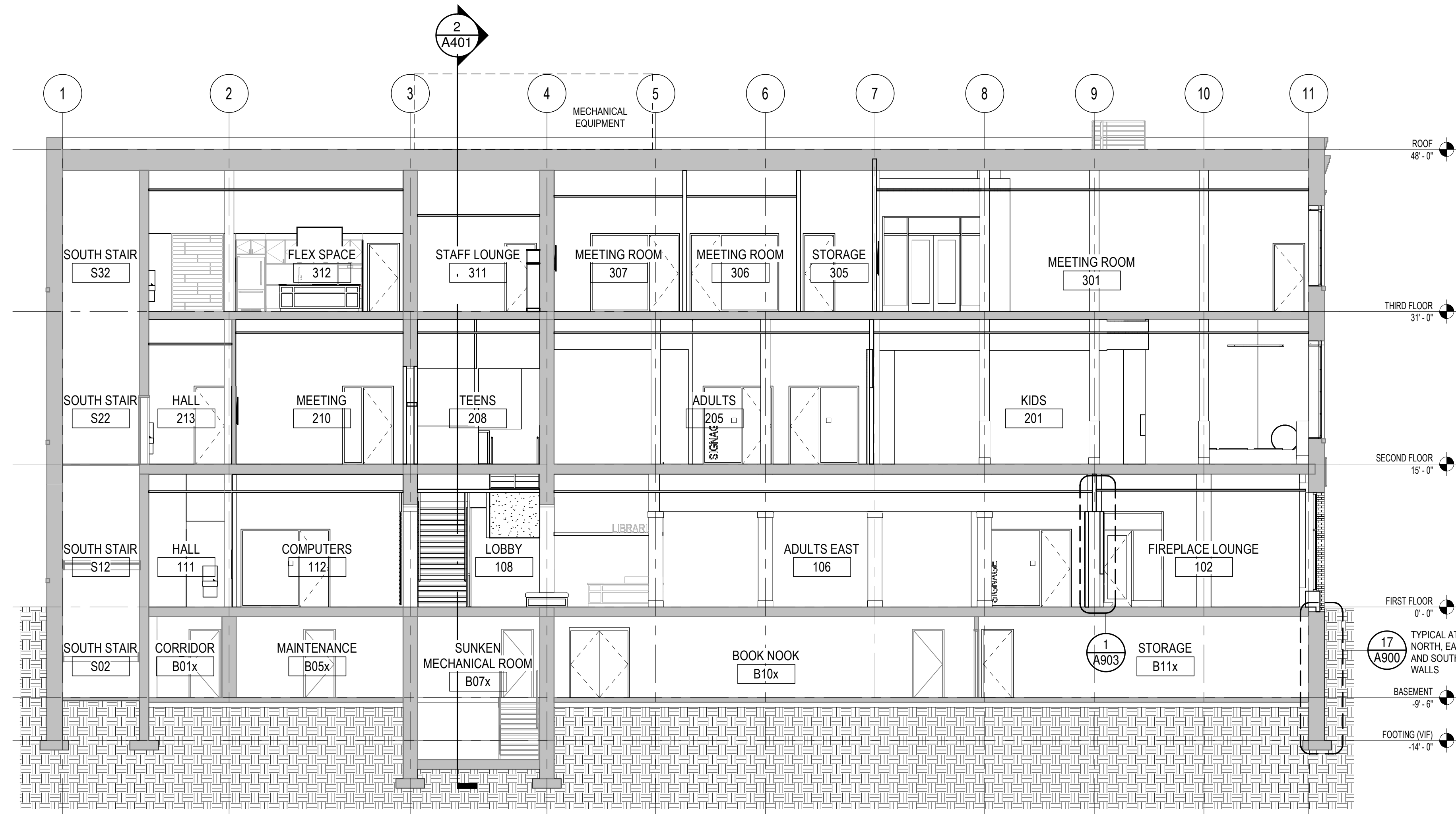
SEE D100 AND A100 FOR BELOW GRADE FOUNDATION REPAIR
AND REPOINTING, BOTH EXTERIOR AND INTERIOR.



3 WEST ELEVATION
SCALE: 1/8" = 1'-0"



4 SOUTH ELEVATION
SCALE: 1/8" = 1'-0"



1 N/S BUILDING SECTION
SCALE: 1/8" = 1'-0"

2 E/W BUILDING SECTION
SCALE: 1/8" = 1'-0"

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**BUILDING
SECTIONS**

A401

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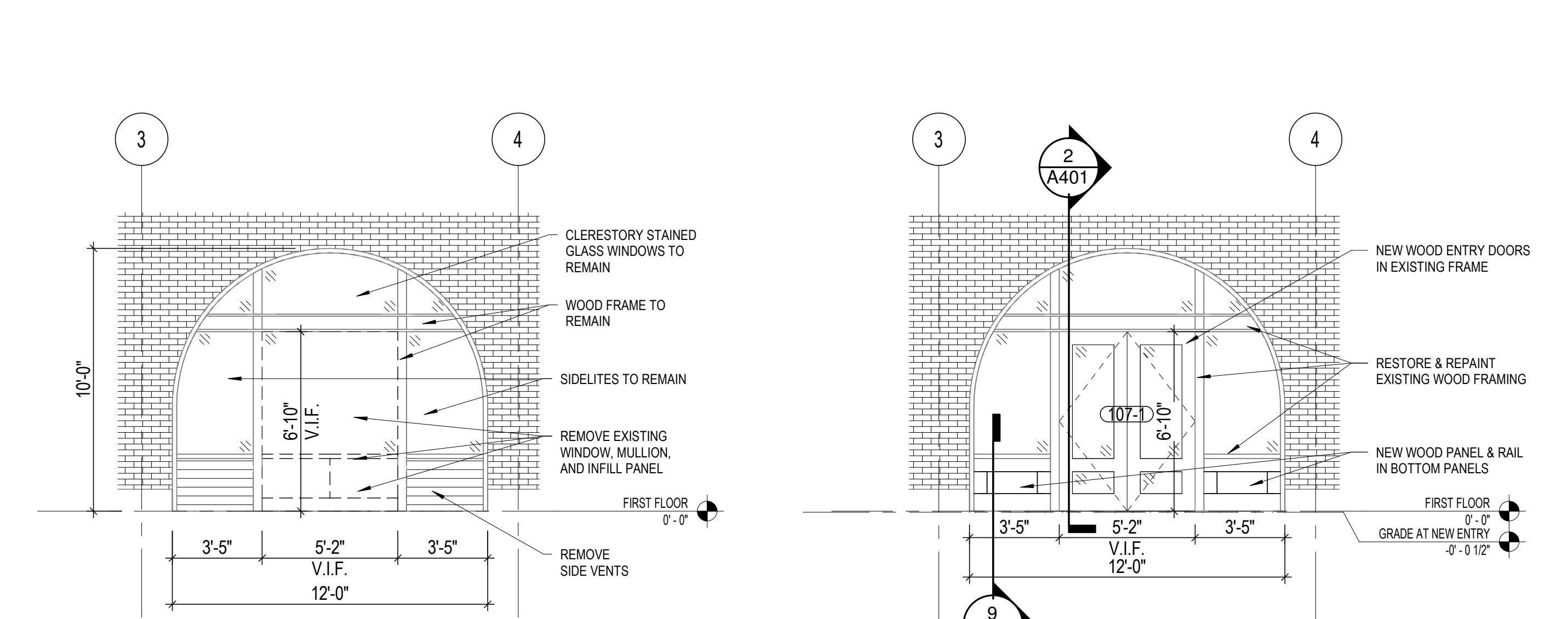
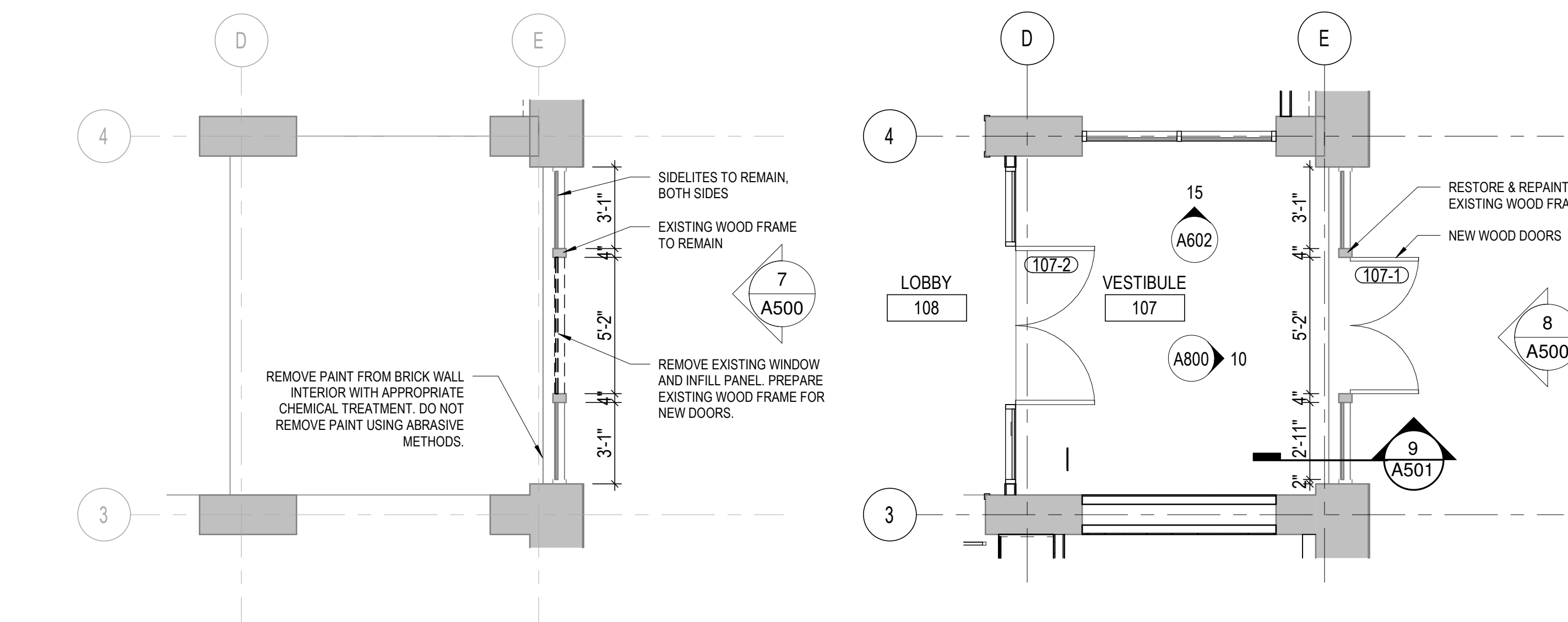
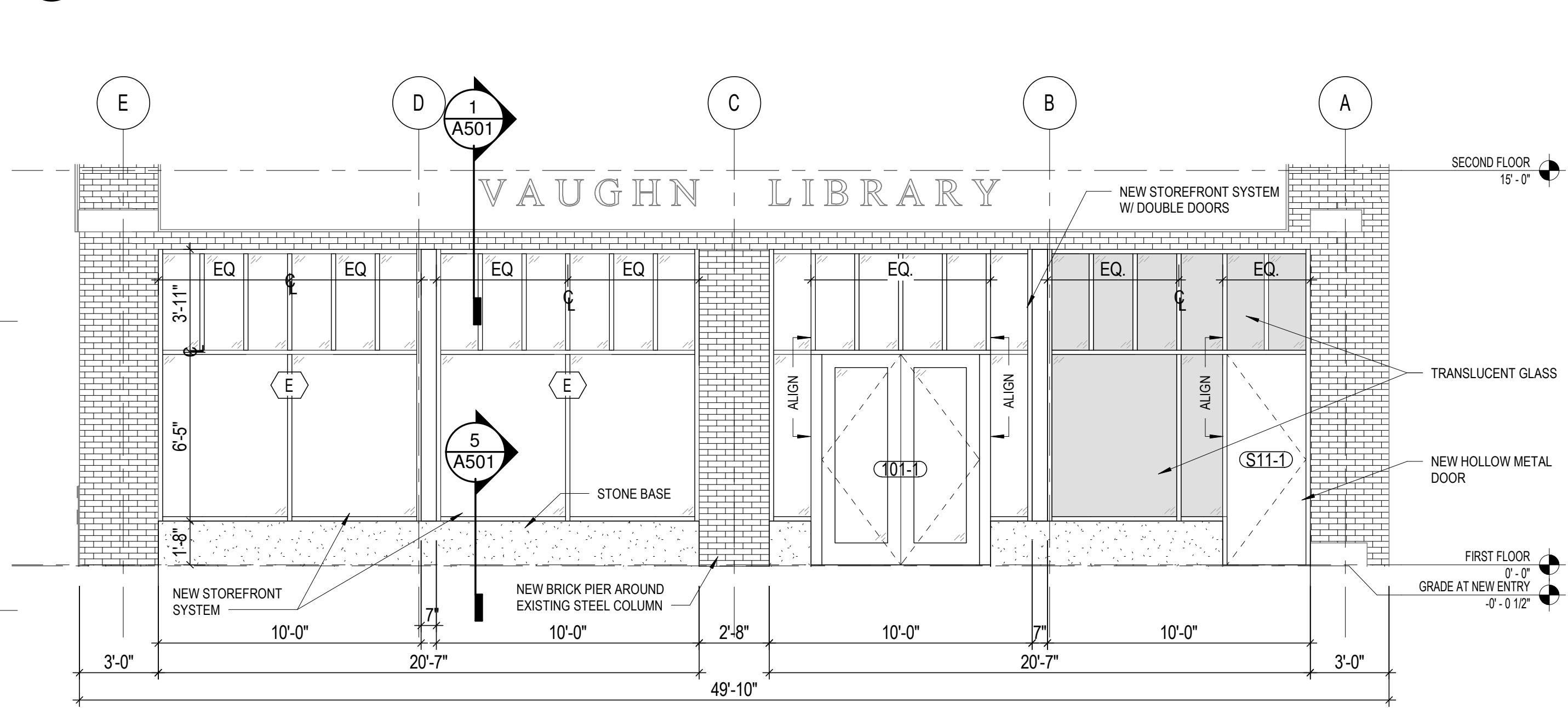
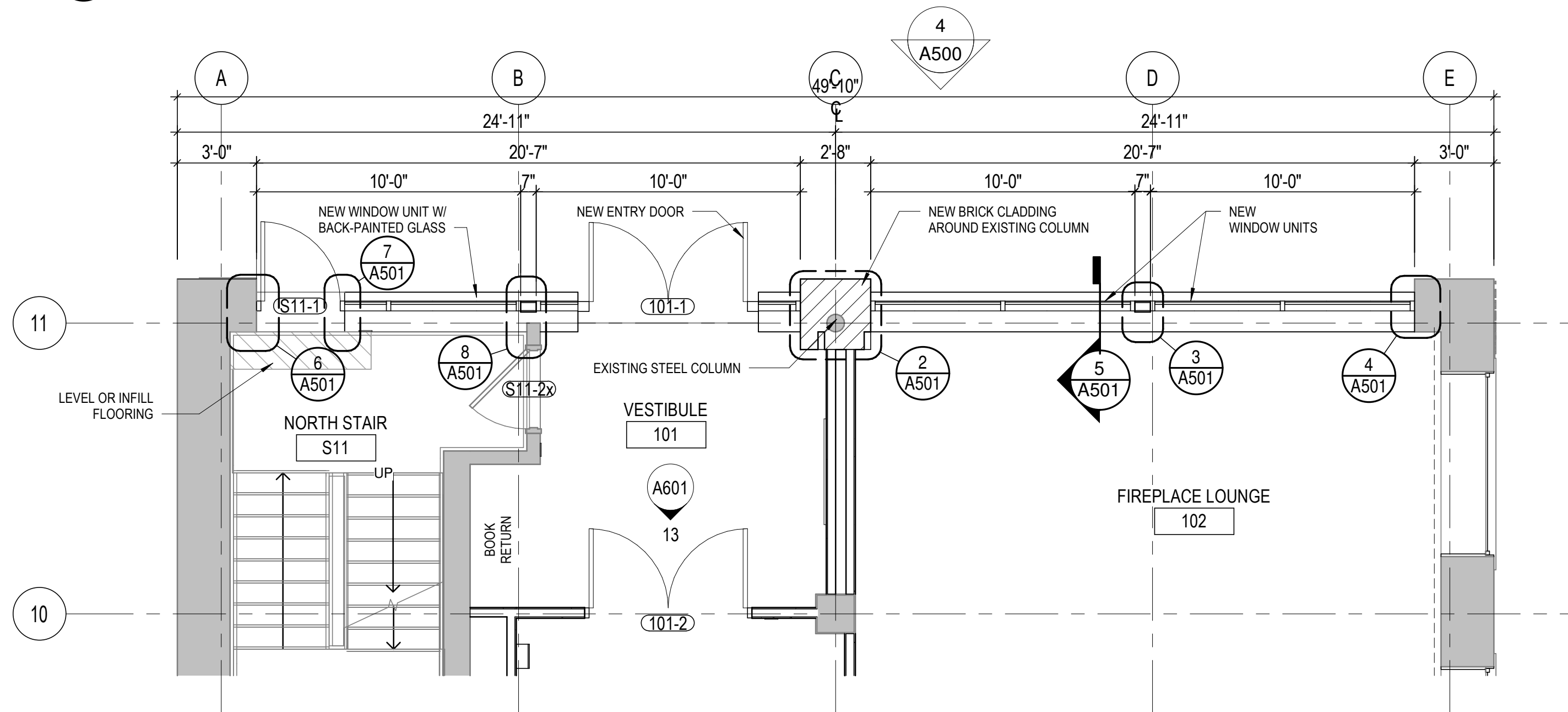
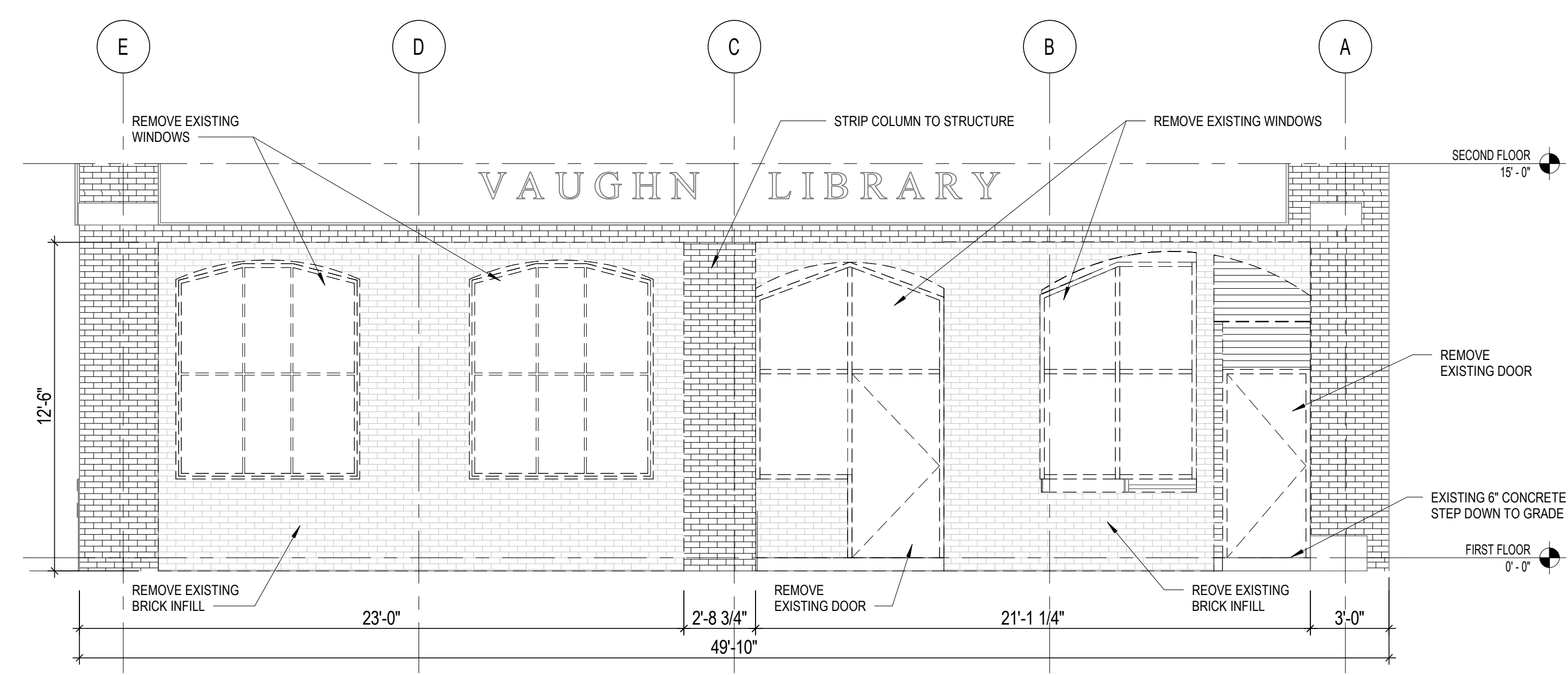
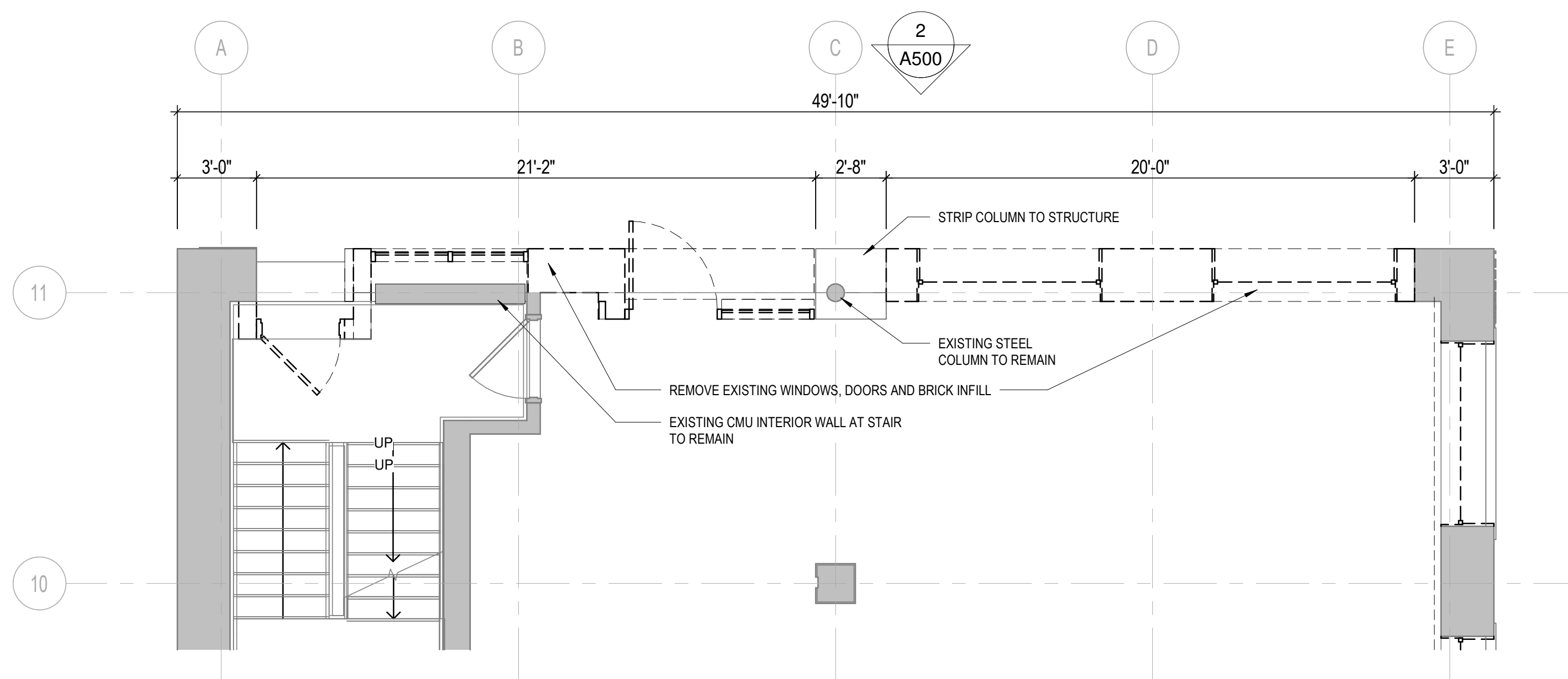
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**ENTRY PLANS &
ELEVATIONS**



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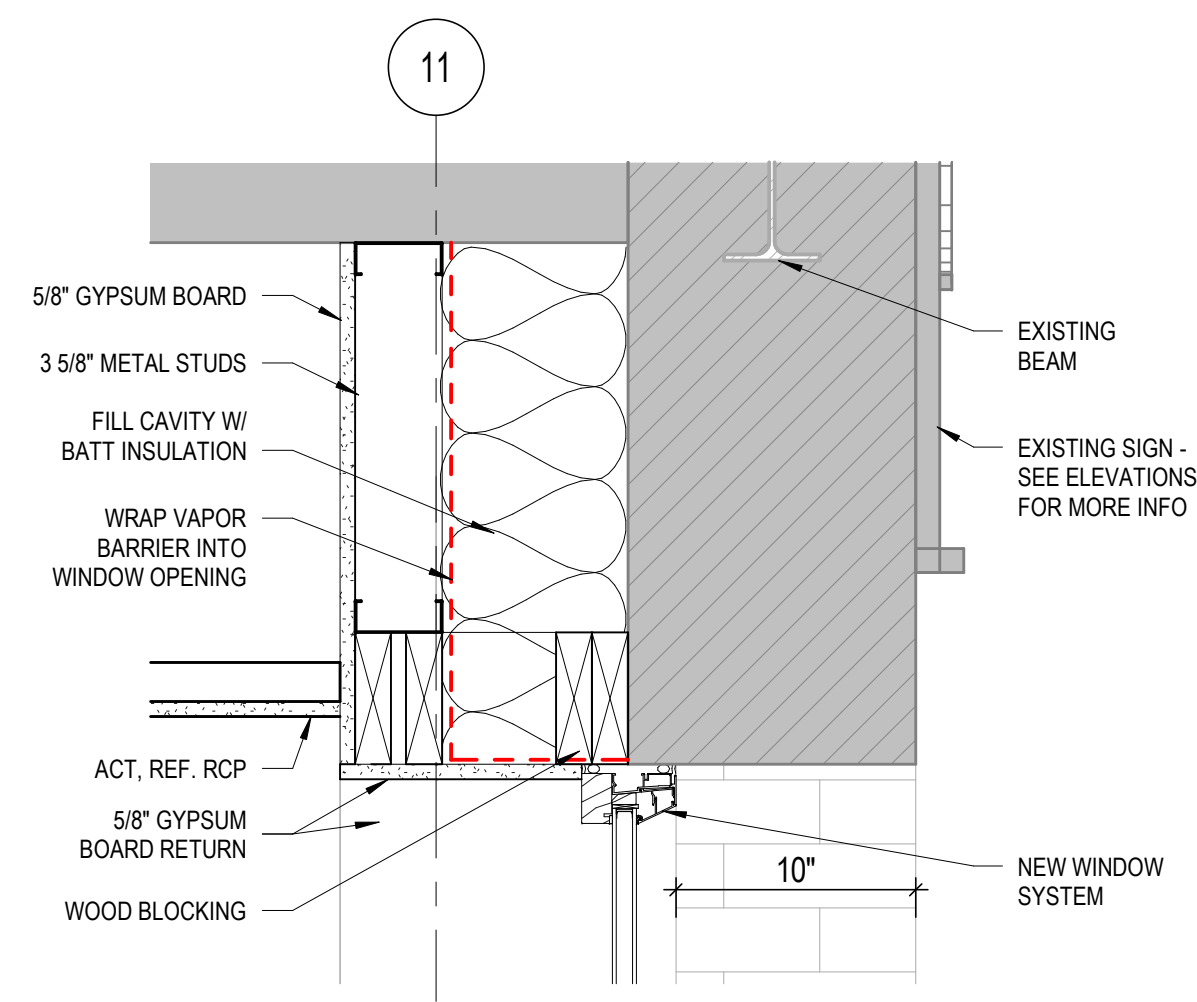
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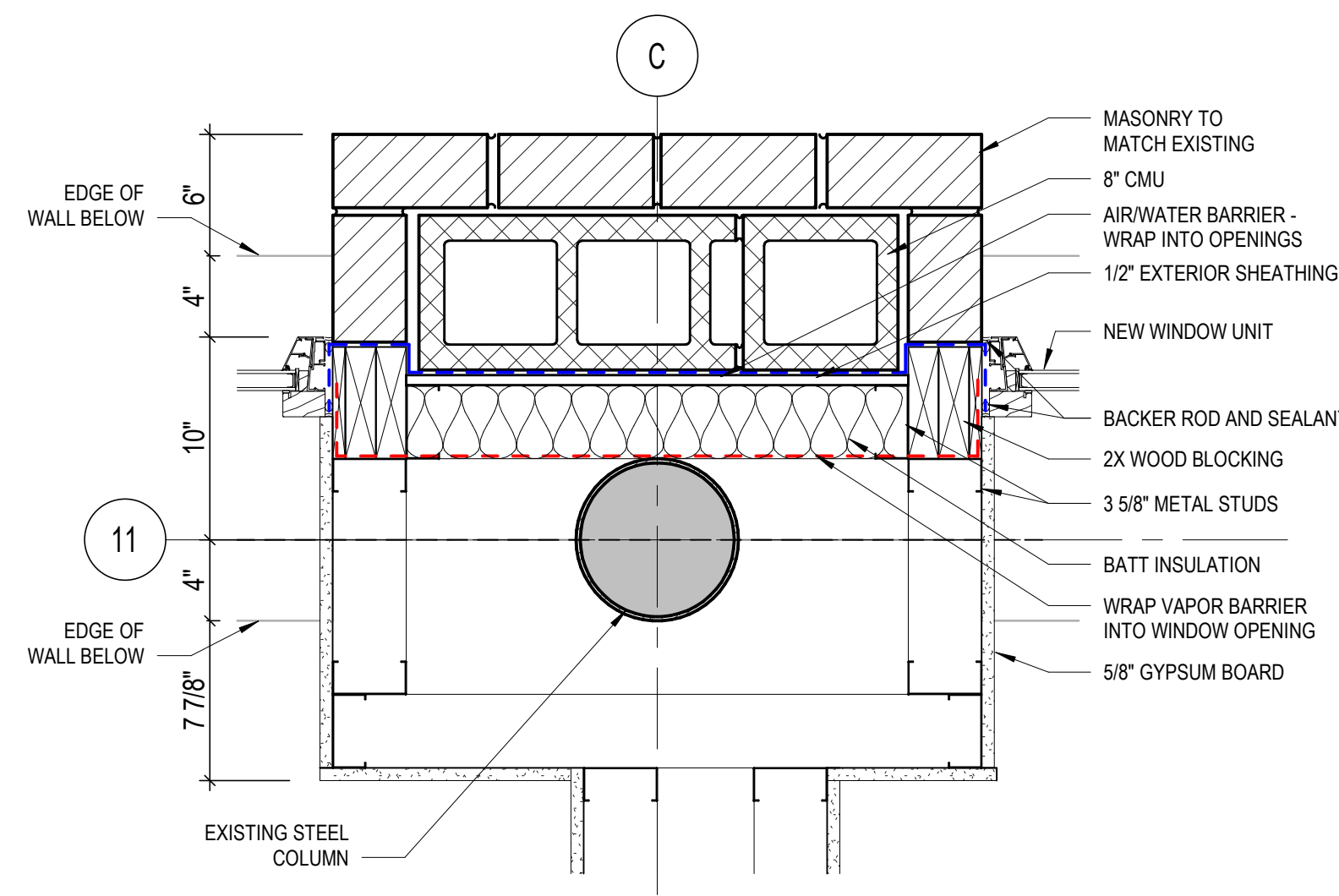
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ENTRY DETAILS

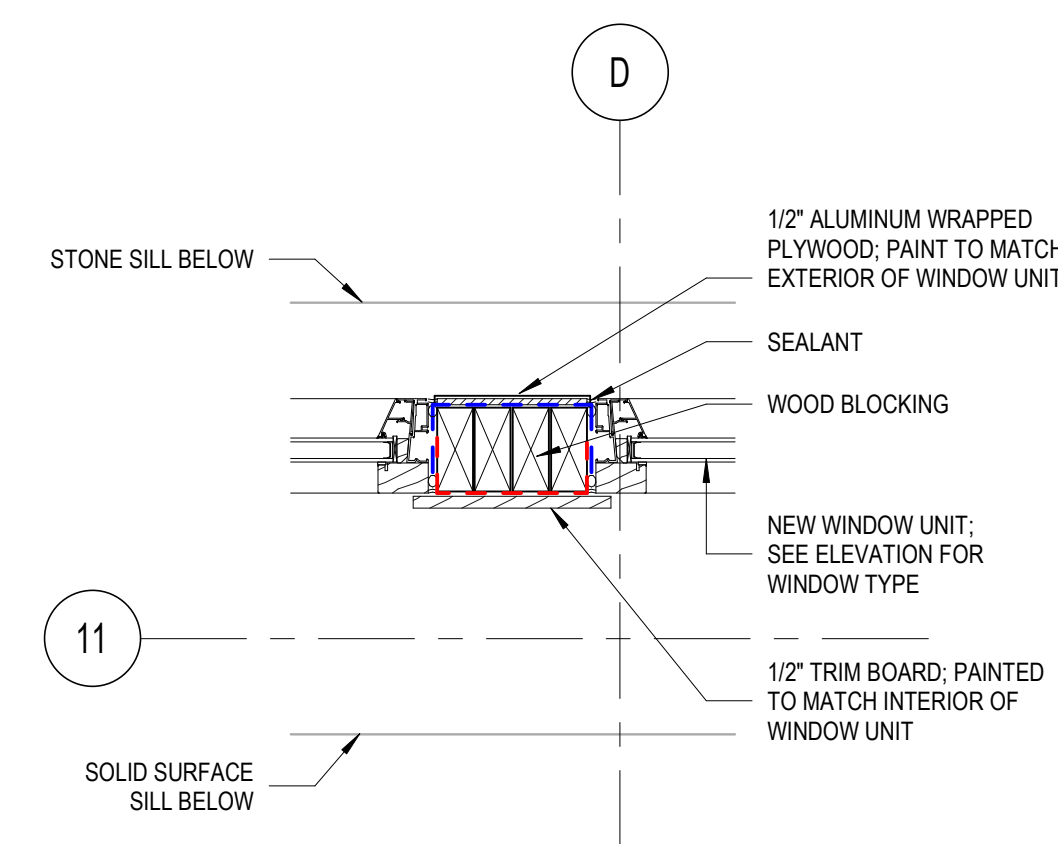
A501



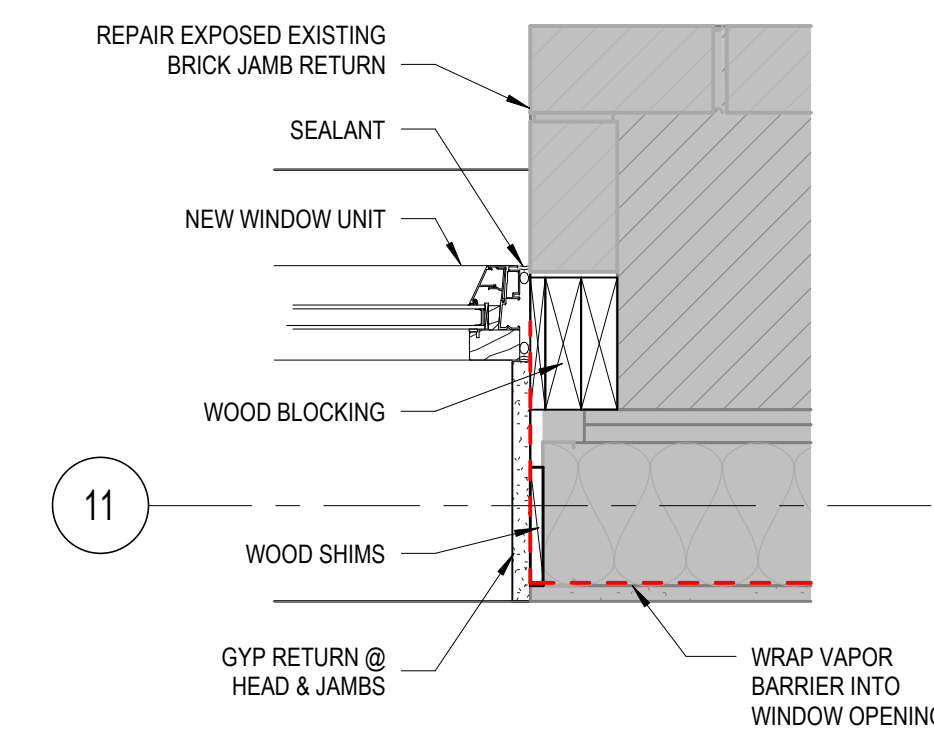
1 NORTH WINDOW HEAD DETAIL
SCALE: 1 1/2" = 1'-0"



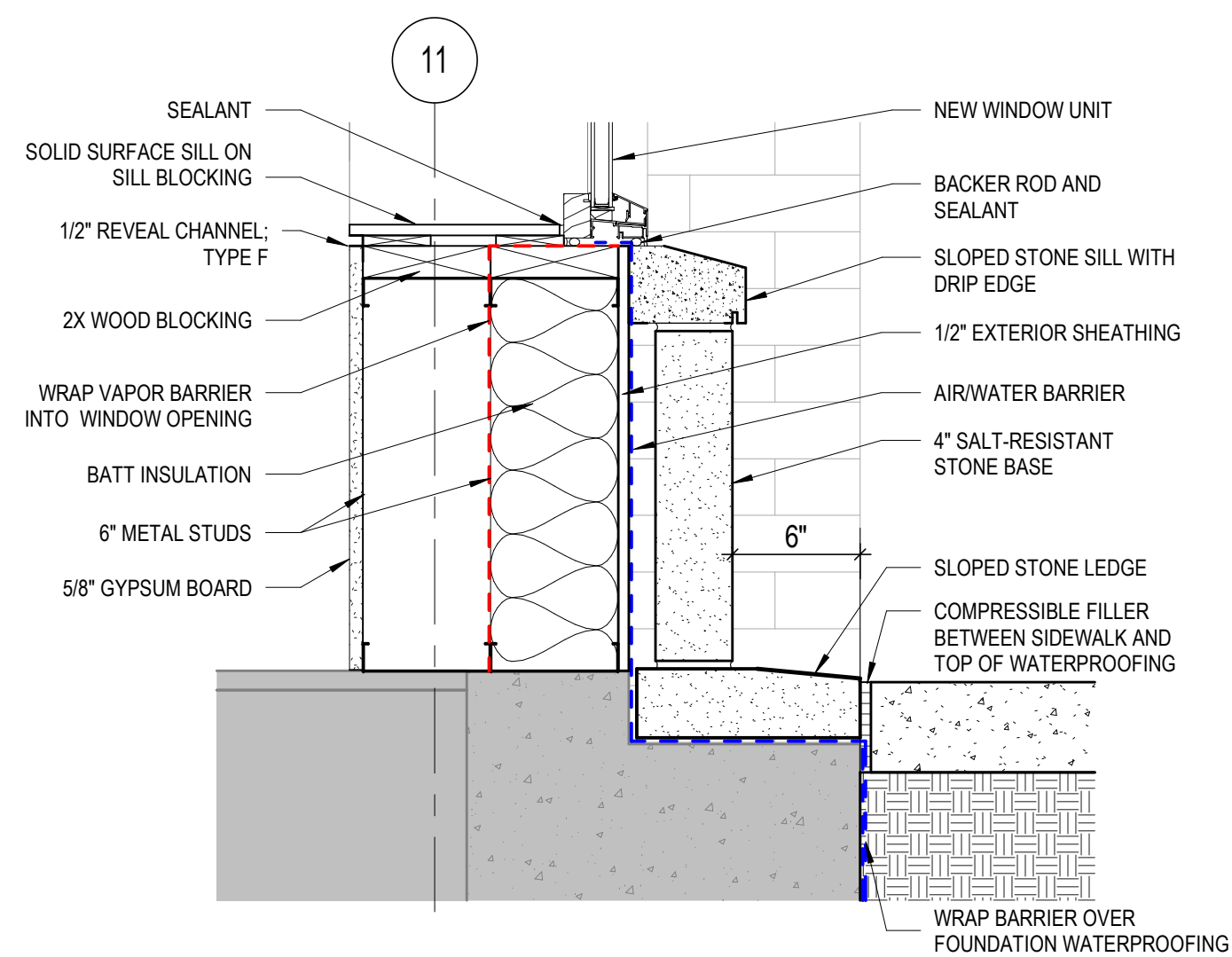
2 NORTH ENTRY COLUMN PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



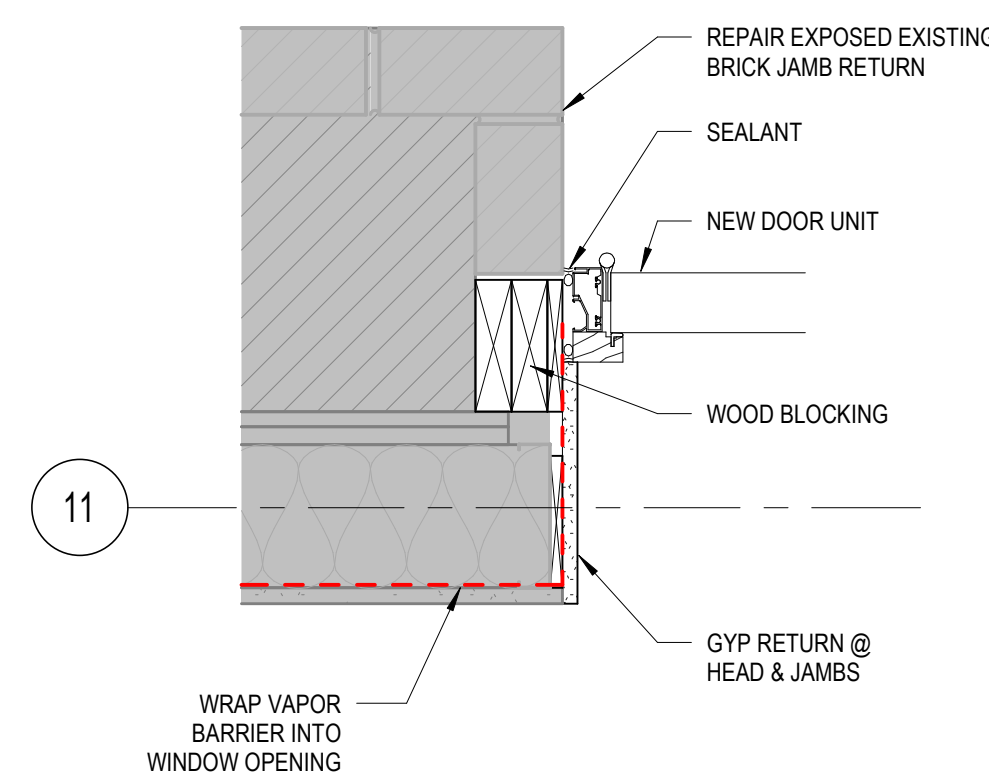
3 NORTH WINDOW MULLION PLAN DETAIL
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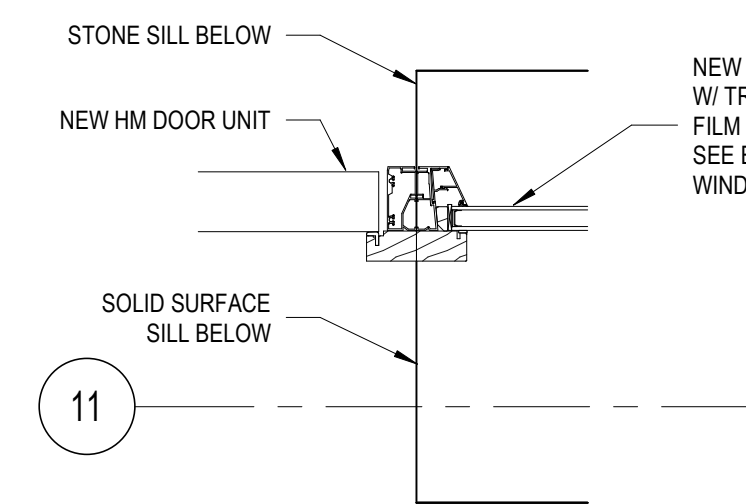
4 NORTH WINDOW @ EX. JAMB DETAIL
SCALE: 1 1/2" = 1'-0"



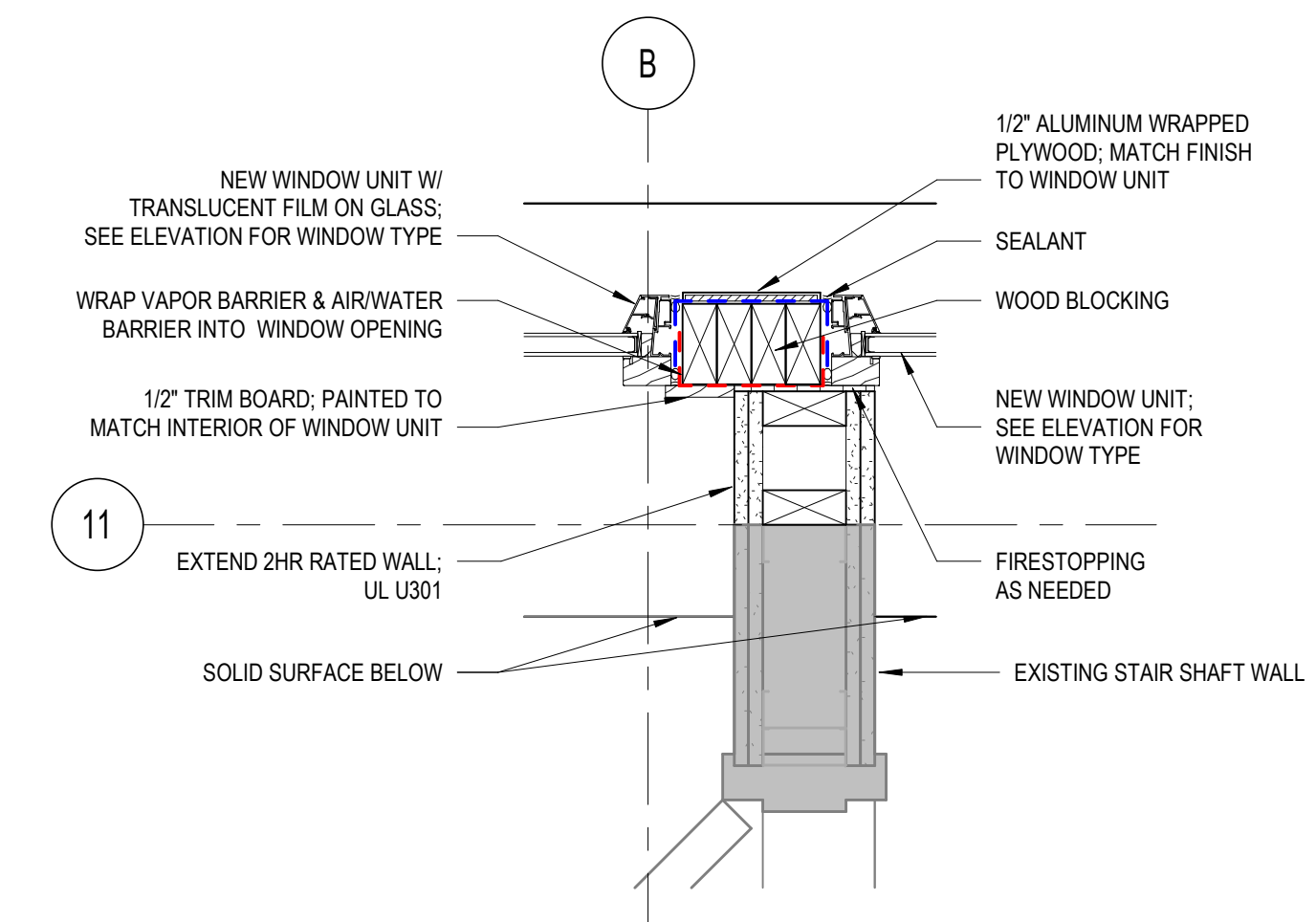
5 NORTH WINDOW SILL / BASE DETAIL
SCALE: 1 1/2" = 1'-0"



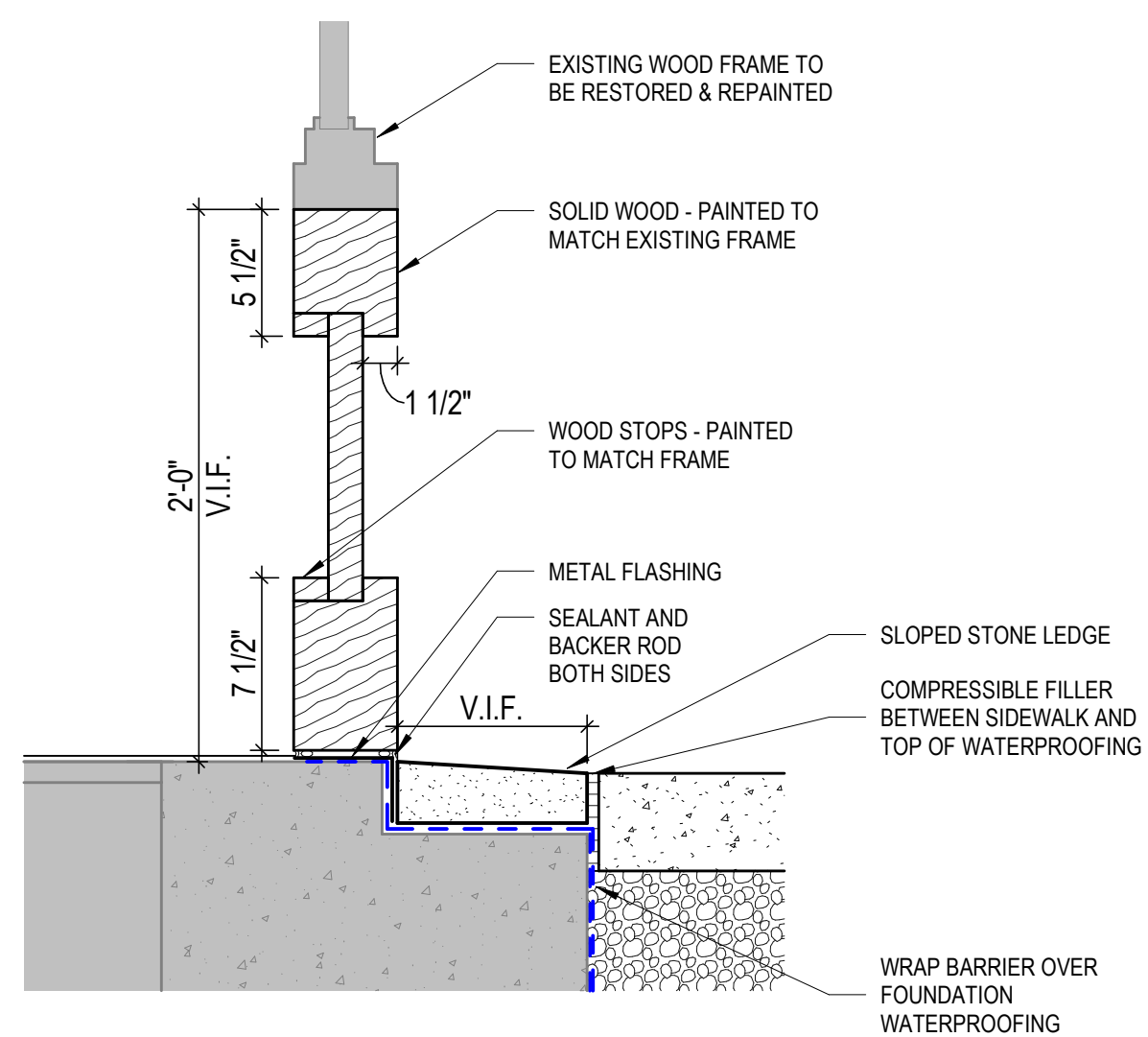
6 NORTH DOOR @ EX. JAMB PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



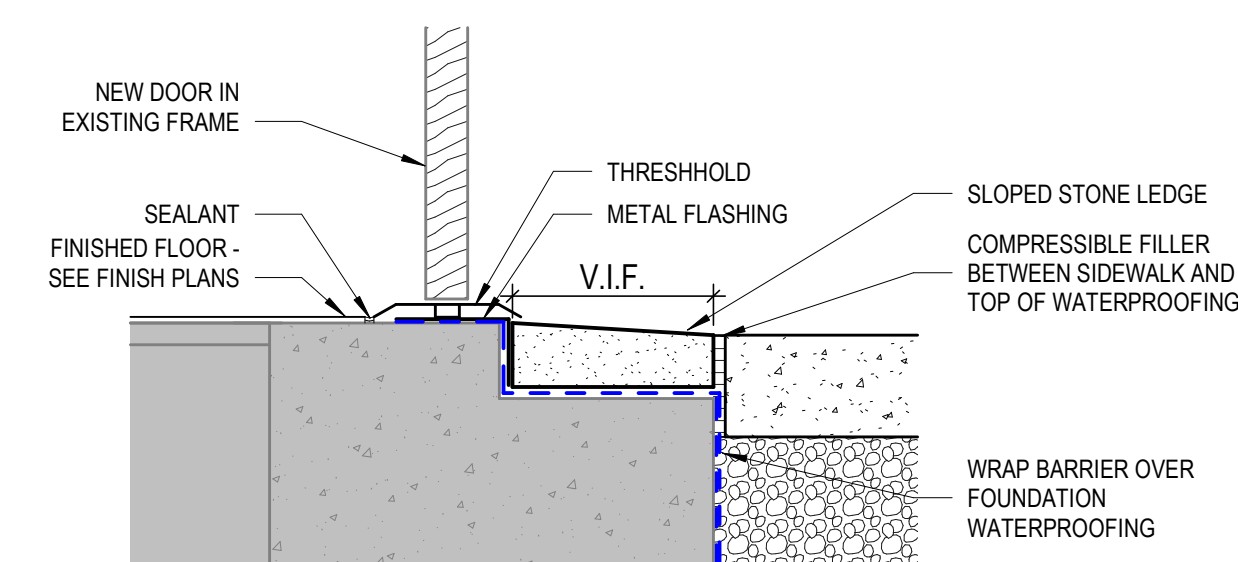
7 NORTH DOOR @ JAMB PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



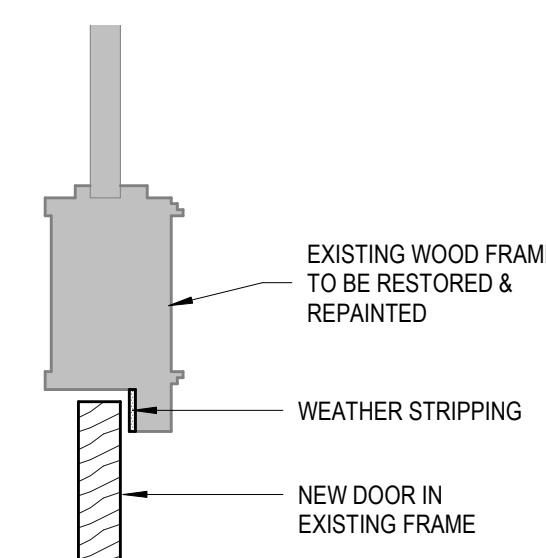
8 NORTH WINDOW @ WALL PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



9 EAST ENTRY BASE DETAIL
SCALE: 1 1/2" = 1'-0"



10 EAST ENTRY DOOR SILL DETAIL
SCALE: 1 1/2" = 1'-0"



11 EAST ENTRY DOOR HEAD DETAIL
SCALE: 1 1/2" = 1'-0"

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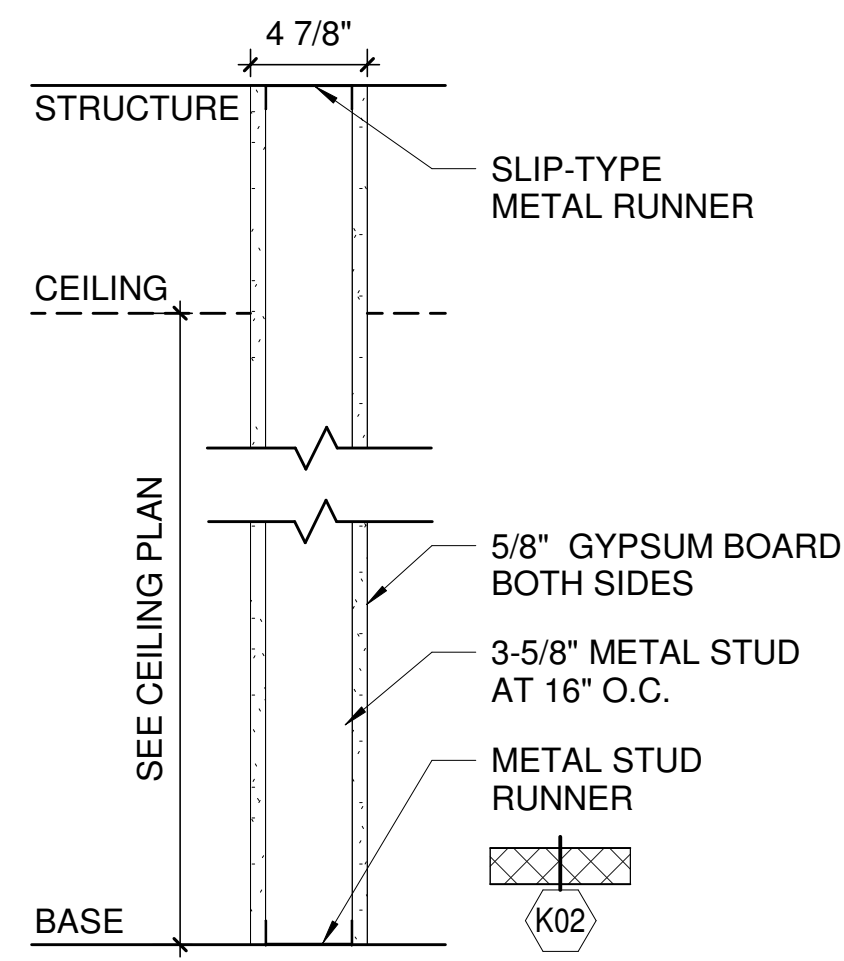
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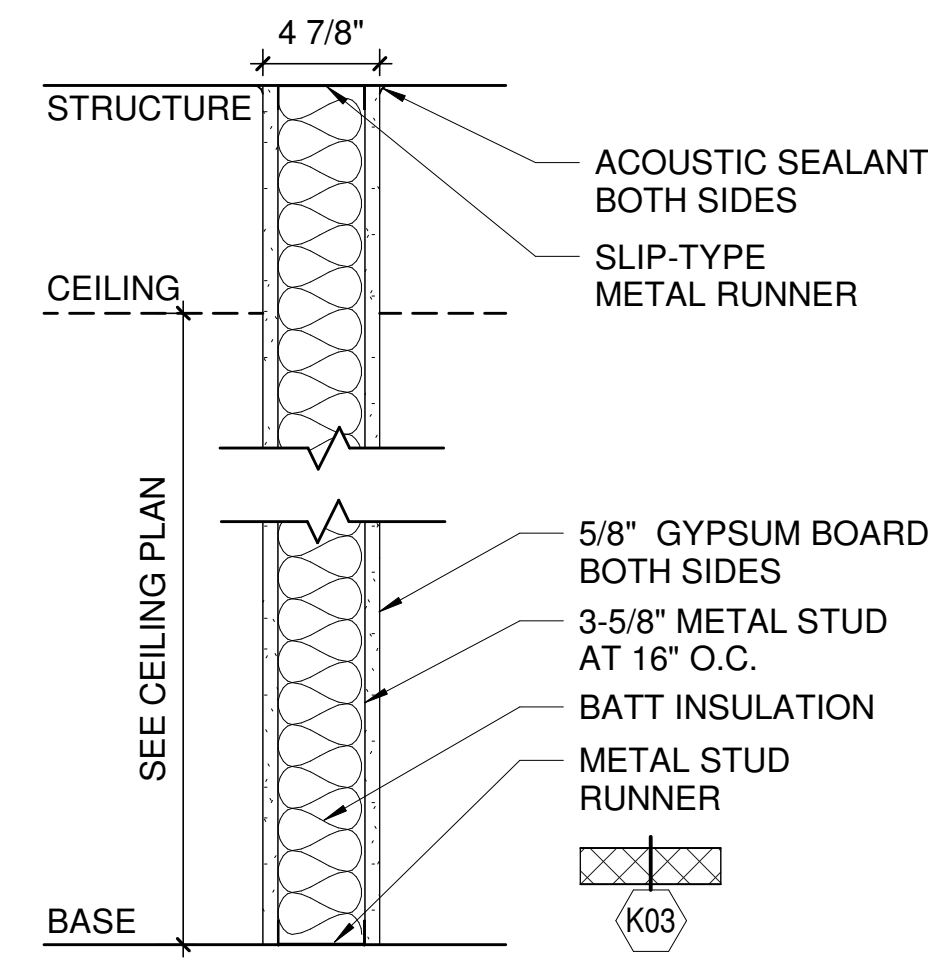
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PARTITION TYPES

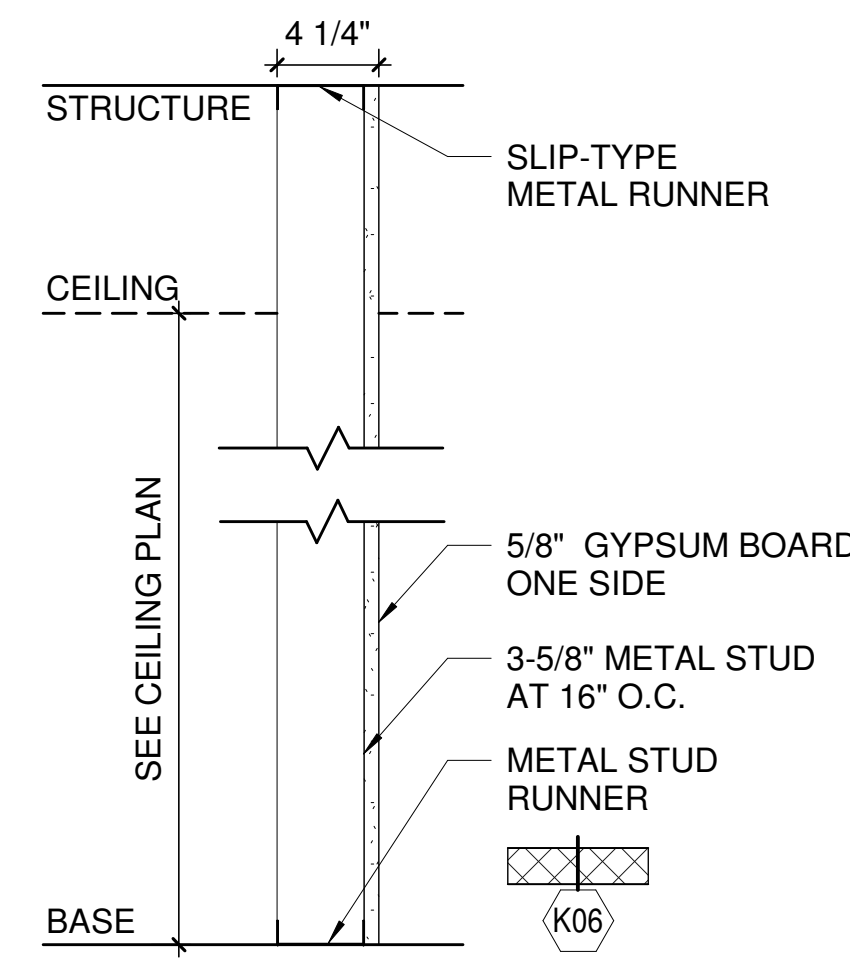
A600



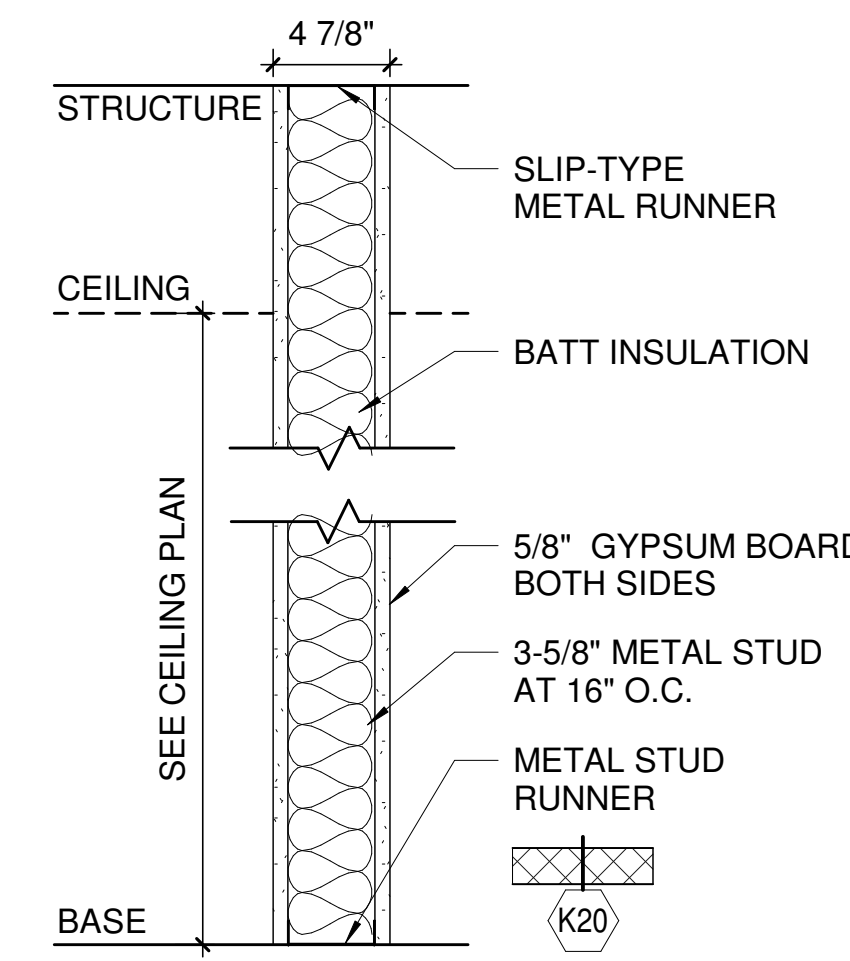
1 Wall Type K02 - Non Rated
SCALE: 1 1/2" = 1'-0"



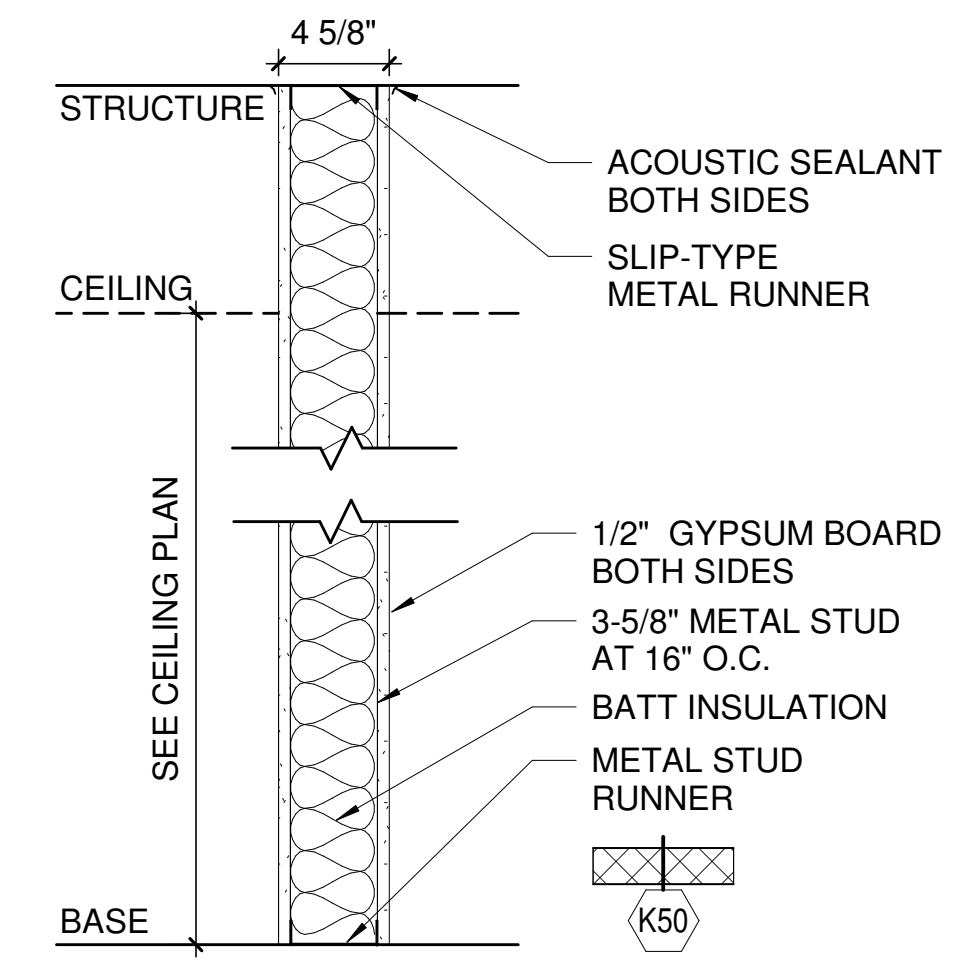
2 Wall Type K03 - Non Rated
SCALE: 1 1/2" = 1'-0"



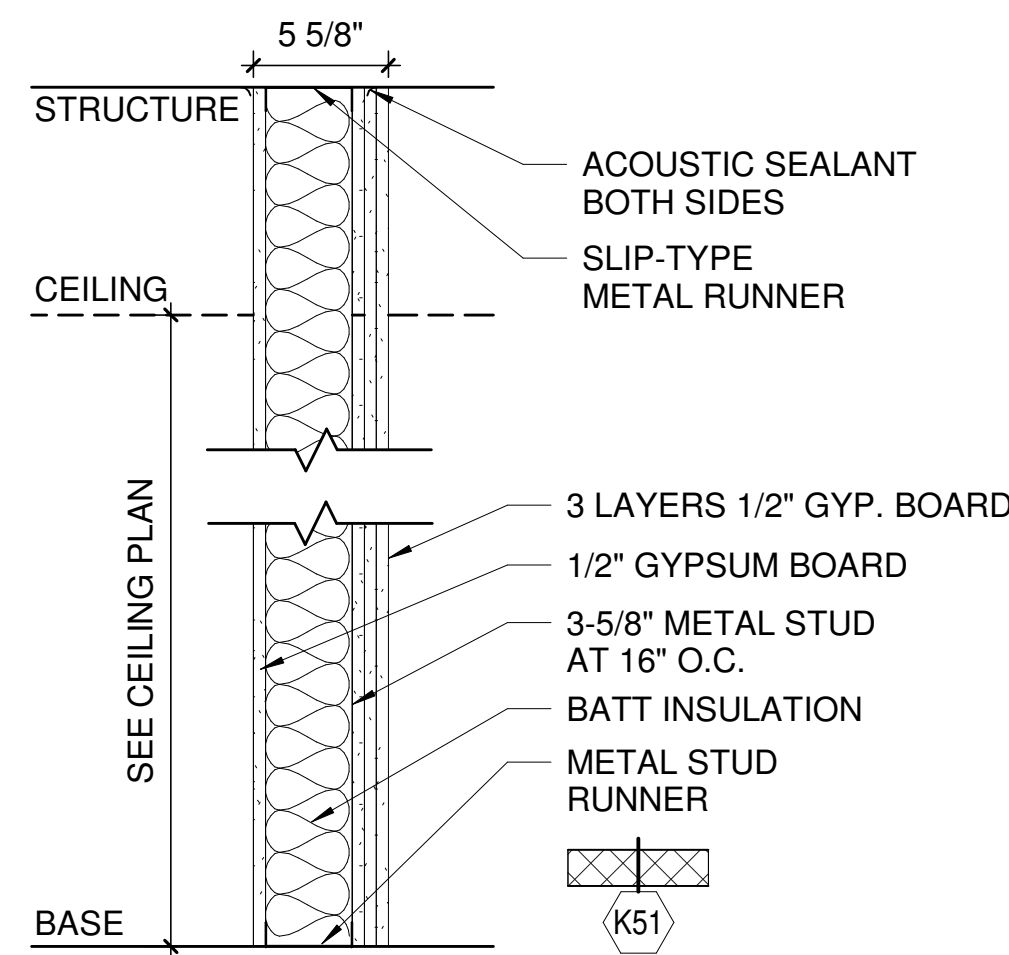
3 Wall Type K06 - Non Rated
SCALE: 1 1/2" = 1'-0"



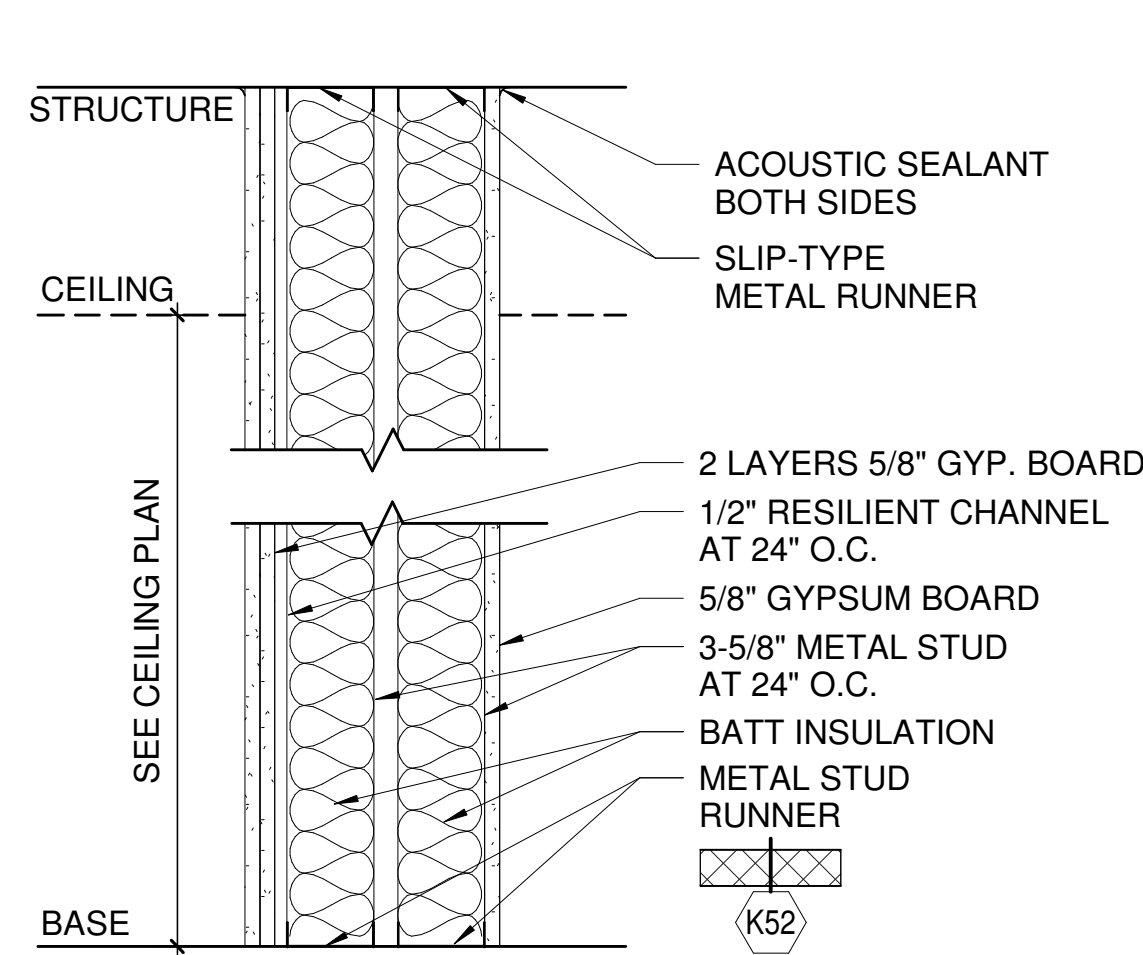
4 Wall Type K20 - 1 Hour Rated
SCALE: 1 1/2" = 1'-0"



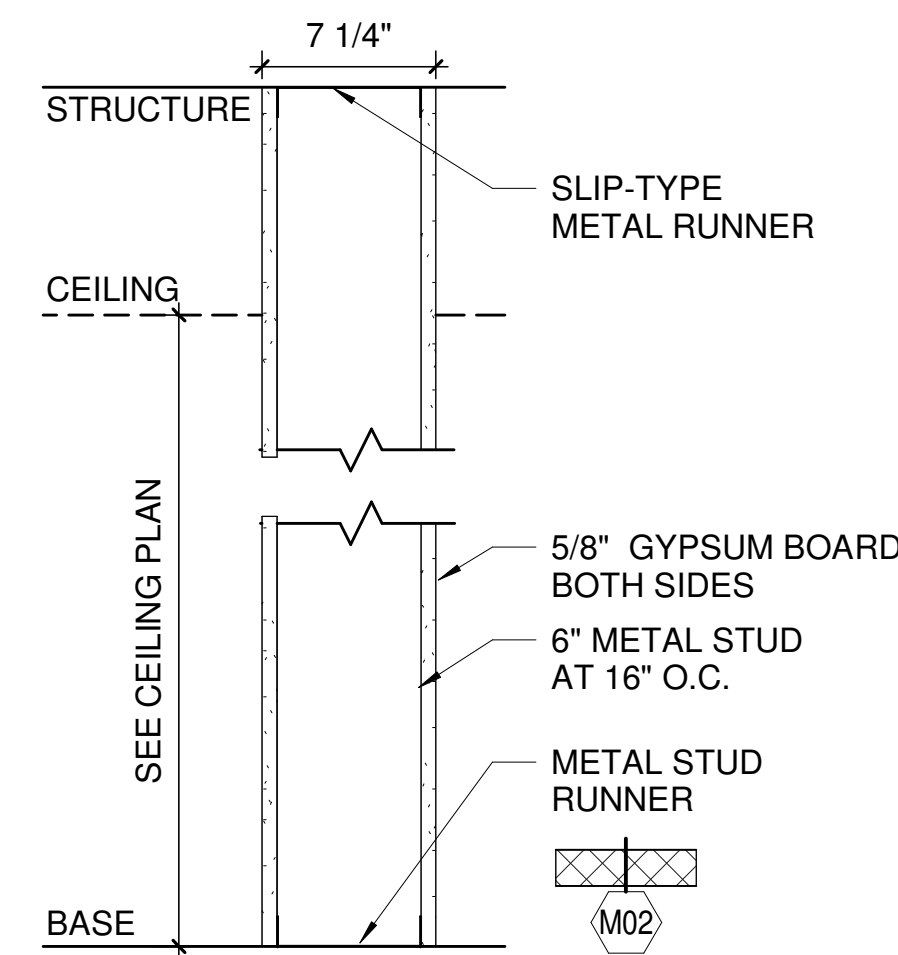
5 Wall Type K50 - Non Rated
SCALE: 1 1/2" = 1'-0"



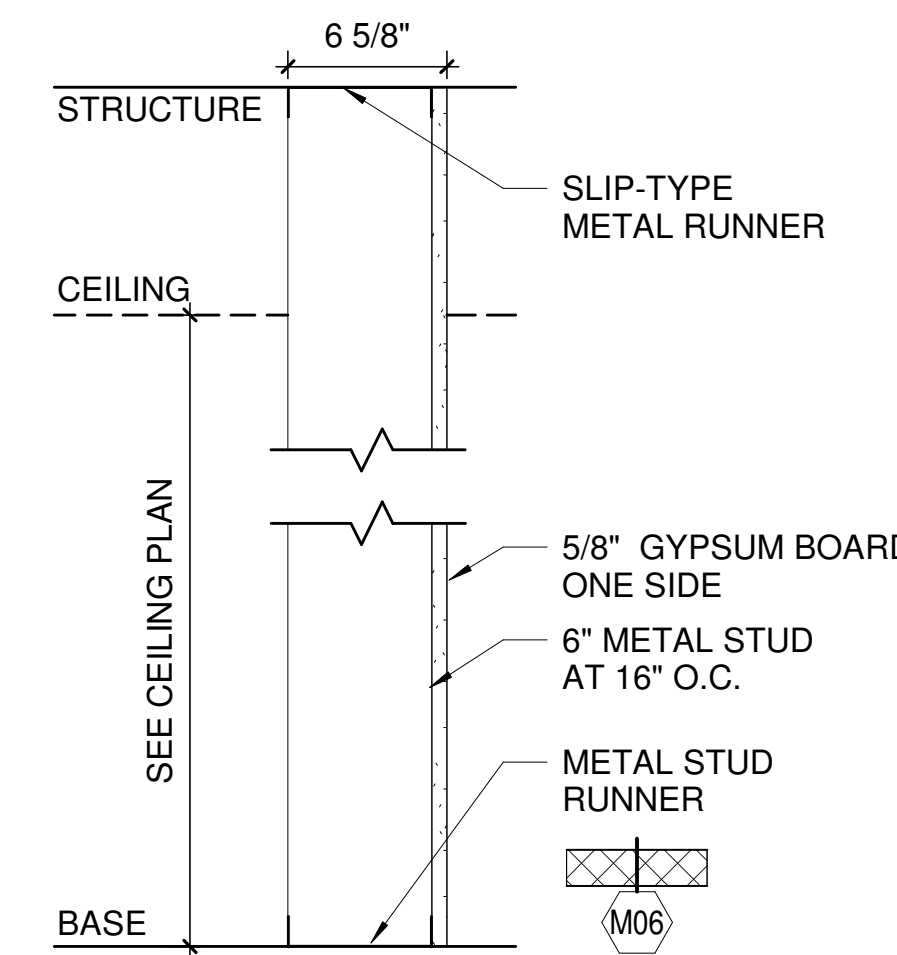
6 Wall Type K51 - Non Rated
SCALE: 1 1/2" = 1'-0"



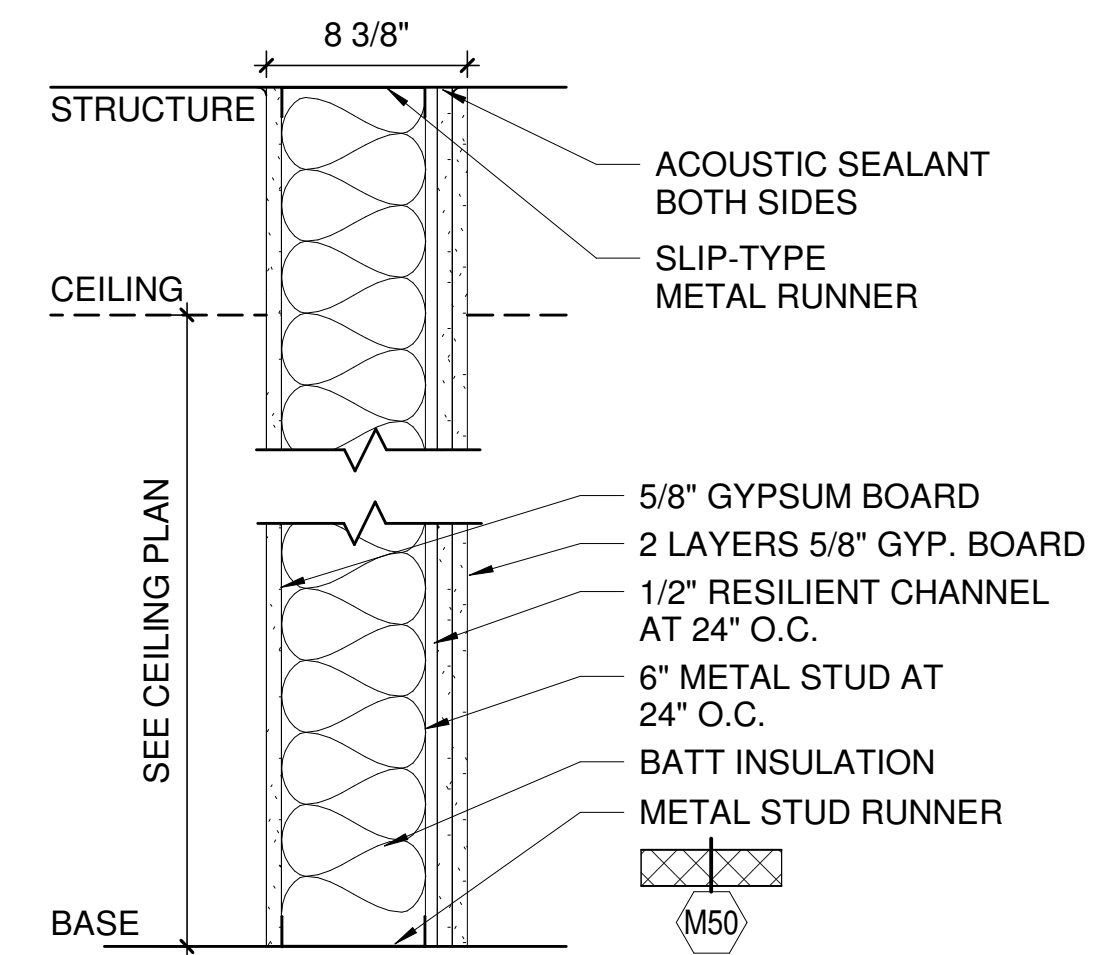
7 Wall Type K52 - Non Rated
SCALE: 1 1/2" = 1'-0"



8 Wall Type M02 - Non Rated
SCALE: 1 1/2" = 1'-0"



9 Wall Type M06 - Non Rated
SCALE: 1 1/2" = 1'-0"



10 Wall Type M50 - Non Rated
SCALE: 1 1/2" = 1'-0"

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**DOOR SCHEDULE
& TYPES**

A601

GENERAL NOTES - DOORS

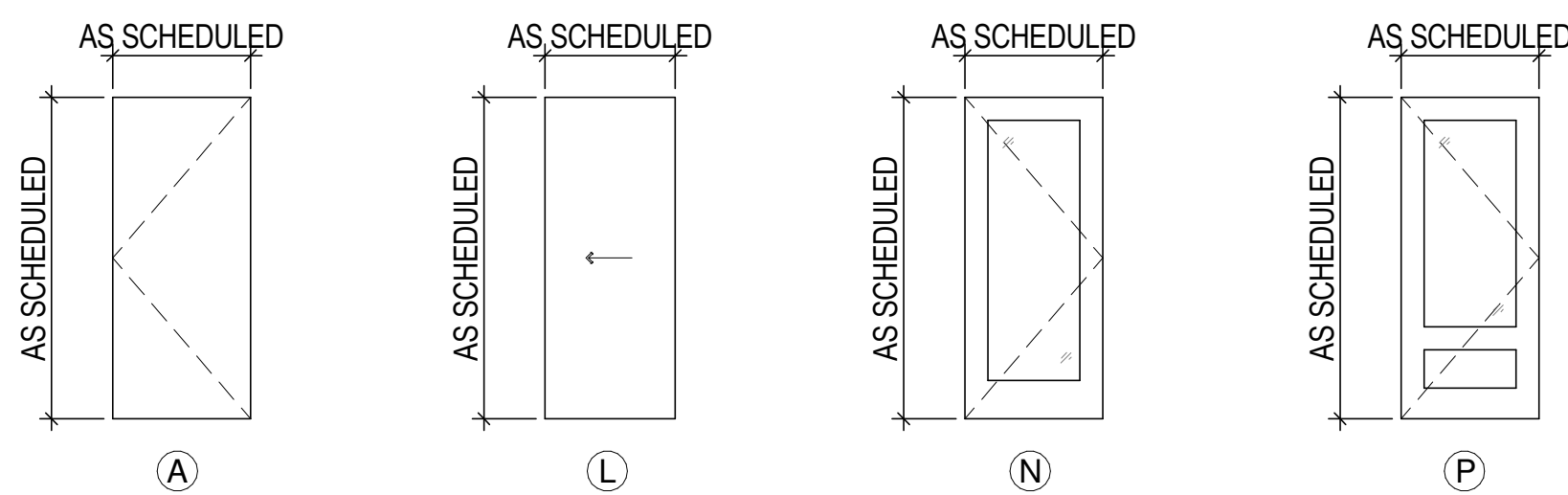
- FRAME:** REFER TO DOOR DETAILS AND SCHEDULE
- DIMENSIONS:** DIMENSIONS ARE NOMINAL - MANUFACTURER PROVIDING THE DOORS TO DETERMINE THE ROUGH OPENINGS EXCEPT THE OPENINGS IN CONCRETE WALLS THAT HAVE BEEN ALREADY SPECIFIED.
- HARDWARE:** FOR HARDWARE GROUP SPECIFICATIONS REFER TO THE PROJECT MANUAL UNDER HARDWARE SPECS.
- ELECTRICAL DEVICES** SUCH AS MAG. LOCKS, CARD READERS AND ALARM SYSTEMS BEING PART OF THE DOOR FUNCTION ARE INCLUDED AS PART OF THE ELECTRICAL PLANS AND THE HARDWARE GROUPS.
- GLAZING:** GLAZING AS NOTED ON DOOR TYPE ELEVATIONS
- FINISH:** SEE DOOR SCHEDULE FOR DOOR AND FRAME FINISH
- GLAZING FILM:** SEE MATERIAL SCHEDULE FOR PRODUCT INFORMATION.

DOOR ABBREVIATIONS

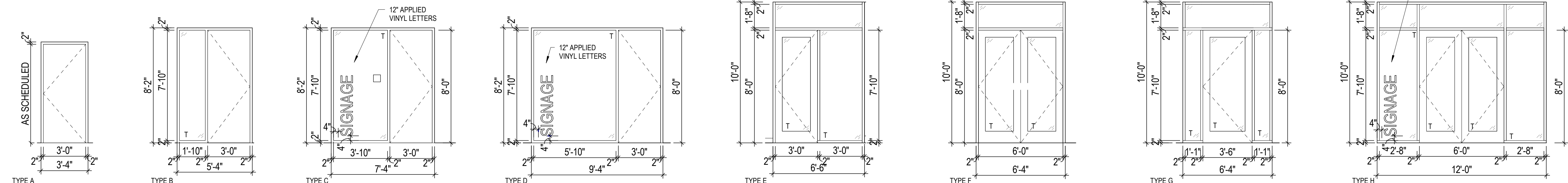
- GL: GLASS
WD: WOOD
AL: ALUMINUM
ST: STAIN
OS: OPAQUE STAIN
T: TEMPERED SAFETY GLAZING
ANOD: ANODIZED
HM: HOLLOW METAL
PT: PAINT
FF: FACTORY FINISH
MF STD: MANUFACTURER STANDARD
GF: GLAZING FILM

DOOR AND FRAME SCHEDULE

NUMBER	DOOR					FRAME			DETAIL			LABLE	Hardware	REMARKS	NUMBER	
	TYPE	MAT'L	FINISH	WIDTH	HEIGHT	TYPE	MAT'L	FINISH	THRESH	JAMB	HEAD					
BASEMENT																
B10-2	A	HM	PT	(2)	3'-0"	7'-0"	A	HM	PT						ADD ALTERNATE #3	B10-2
B11-2	A	HM	PT		3'-0"	7'-0"	A	HM	PT						ADD ALTERNATE #3	B11-2
B13-1	A	HM	PT		3'-0"	7'-0"	A	HM	PT				SET 1			B13-1
BASEMENT: 3																
FIRST FLOOR																
101-1	N	ALWD	PF	(2)	6'-0"	8'-0"	SEE A603	ALWD	PT					SET 6		101-1
101-2	N	HM	PF	(2)	6'-0"	8'-0"	F	HM	PT					SET 7		101-2
102-1	N	WD	PF		3'-0"	8'-0"	E	HM	PT					SET 1		102-1
102-2	N	WD	PF		3'-0"	8'-0"	E	HM	PT					SET 1		102-2
103-1	A	WD	PF		3'-0"	8'-0"	A	HM	PT					SET 1		103-1
104-1	A	WD	PF		3'-0"	8'-0"	D	HM	PT					SET 1	GF-1 APPLIED VINYL LETTERS: TEAL	104-1
107-1	P	WD	PF	(2)	5'-2"	6'-10"	SEE A502	EXIST	PT					SET 6		107-1
107-2	N	HM	PT	(2)	6'-0"	8'-0"	H	HM	PT					SET 7		107-2
109-1	N	ALWD	PF		3'-6"	8'-0"	SEE A603	ALWD	PT							109-1
109-2	N	HM	PT		3'-6"	8'-0"	G	HM	PT					SET 1		109-2
110-1	A	WD	PF		3'-0"	7'-0"	A	HM	PT					SET 1		110-1
112-1					7'-5"	10'-0"								SET 5	SLIDING SECURITY GATE	112-1
113-1	A	WD	PF		3'-0"	8'-0"	A	HM	PT					SET 1		113-1
114-1	A	WD	PF		3'-0"	8'-0"	A	HM	PT					SET 3		114-1
115-1	A	WD	PF		3'-0"	8'-0"	A	HM	PT					SET 3		115-1
116-1	A	WD	PF		3'-0"	8'-0"	D	HM	PT					SET 1	NO SIGNAGE	116-1
116-2	A	WD	PF		3'-0"	7'-0"	A	HM	PT					SET 1		116-2
117-1	A	WD	PF		3'-0"	7'-0"	A	HM	PT					SET 3		117-1
119-1	L	WD	PF		3'-4"	7'-6"	SEE A901	-	-					SET 4	SLIDING POCKET DOOR	119-1
S11-1	A	ALWD	PF		3'-0"	8'-0"	SEE A603	ALWD	PT							S11-1
FIRST FLOOR: 20																
SECOND FLOOR																
203-1	A	WD	PF		3'-0"	8'-0"	C	HM	PT					SET 1	GF-1 APPLIED VINYL LETTERS: BLUE	203-1
204-1	A	WD	PF		3'-0"	8'-0"	C	HM	PT					SET 1	GF-1 APPLIED VINYL LETTERS: GREEN	204-1
209-1	A	WD	PF		3'-0"	8'-0"	B	HM	PT					SET 1		209-1
210-1	A	WD	PF		3'-0"	8'-0"	C	HM	PT					SET 1	GF-1 APPLIED VINYL LETTERS: BROWN	210-1
210-2	A	WD	PF		3'-0"	8'-0"	C	HM	PT					SET 1	GF-1 APPLIED VINYL LETTERS: BROWN	210-2
211-1	A	WD	PF		3'-0"	8'-0"	A	HM	PT					SET 3		211-1
212-1	A	WD	PF		3'-0"	8'-0"	A	HM	PT					SET 3		212-1
213-1					5'-5"	10'-0"								SET 5	SLIDING SECURITY GATE	213-1
214-1	A	WD	PF		3'-0"	7'-0"	A	HM	PT					SET 1		214-1
SECOND FLOOR: 9																
THIRD FLOOR																
301-1	N	HM	PT	(2)	6'-0"	8'-0"	H	HM	PT					SET 2	GF-1 APPLIED VINYL LETTERS: GOLD	301-1
301-2	A	WD	PF		3'-0"	7'-0"	A	HM	PT					SET 1		301-2
302-1	A	WD	PF		3'-0"	7'-0"	A	HM	PT					SET 1		302-1
303-1	A	WD	PF		3'-0"	7'-0"	A	HM	PT					SET 1		303-1
305-1	A	WD	PF		3'-0"	8'-0"	A	HM	PT					SET 1		305-1
305-2	A	WD	PF		3'-0"	7'-0"	A	HM	PT					SET 1		305-2
306-1	A	WD	PF		3'-0"	8'-0"	C	HM	PT					SET 1	GF-1 APPLIED VINYL LETTERS: ORANGE	306-1
307-1	A	WD	PF		3'-0"	8'-0"	C	HM	PT					SET 1	GF-1 APPLIED VINYL LETTERS: PURPLE	307-1
308-1	A	WD	PF		3'-0"	8'-0"	C	HM	PT					SET 1		308-1
309-1	A	WD	PF		3'-0"	8'-0"	A	HM	PT					SET 1		309-1
310-1	A	WD	PF		3'-0"	7'-0"	A	HM	PT							310-1
311-1	A	WD	PF		3'-0"	7'-0"	A	HM	PT							311-1
314-1	A	WD	PF		3'-0"	8'-0"	A	HM	PT					SET 3		314-1
315-1	A	WD	PF		3'-0"	8'-0"	A	HM	PT					SET 3		315-1
317-1	A	WD	PF		3'-0"	7'-0"	A	HM	PT					SET 1		317-1
THIRD FLOOR: 15																
Grand total: 47																



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



DOOR FRAME TYPES
SCALE: 1/4" = 1'-0"

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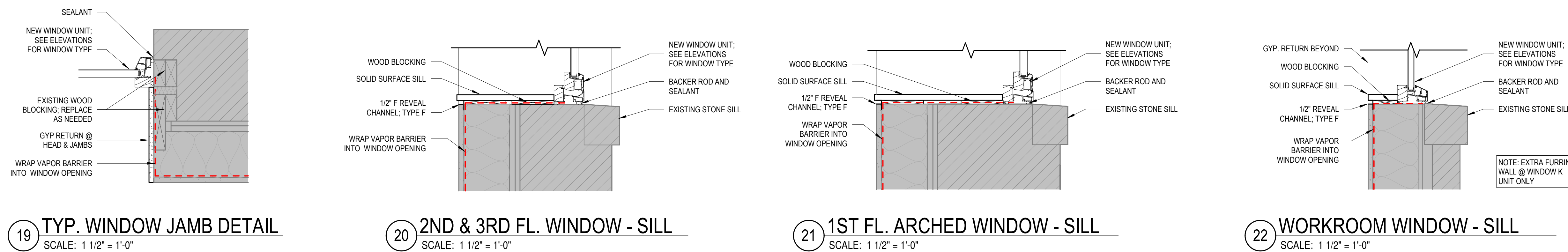
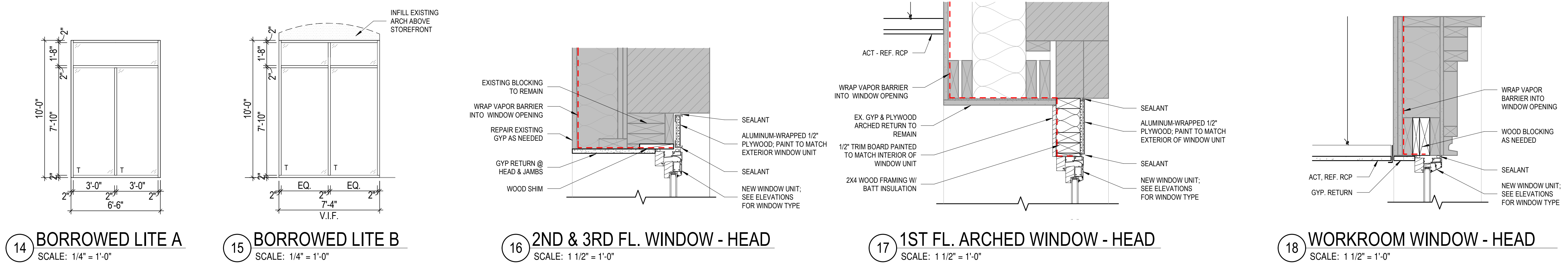
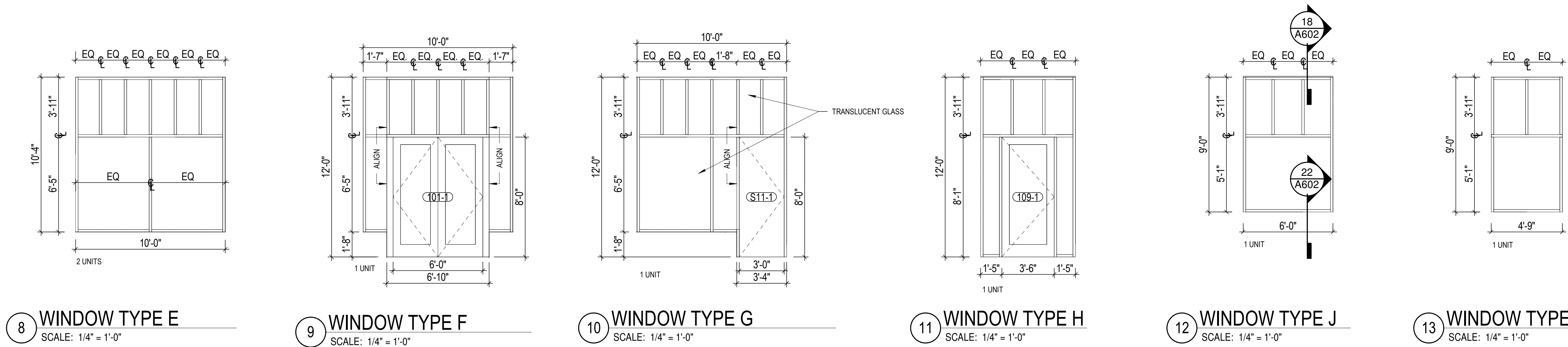
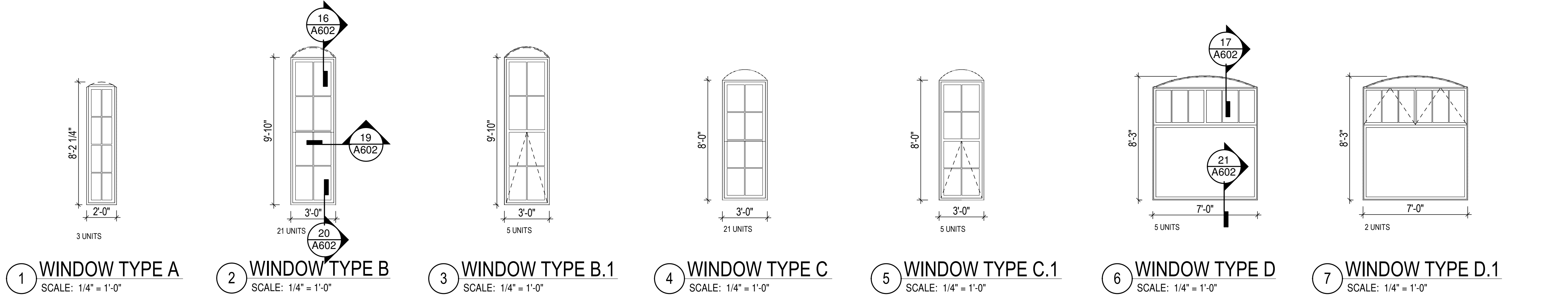
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**WINDOW TYPES &
DETAILS**

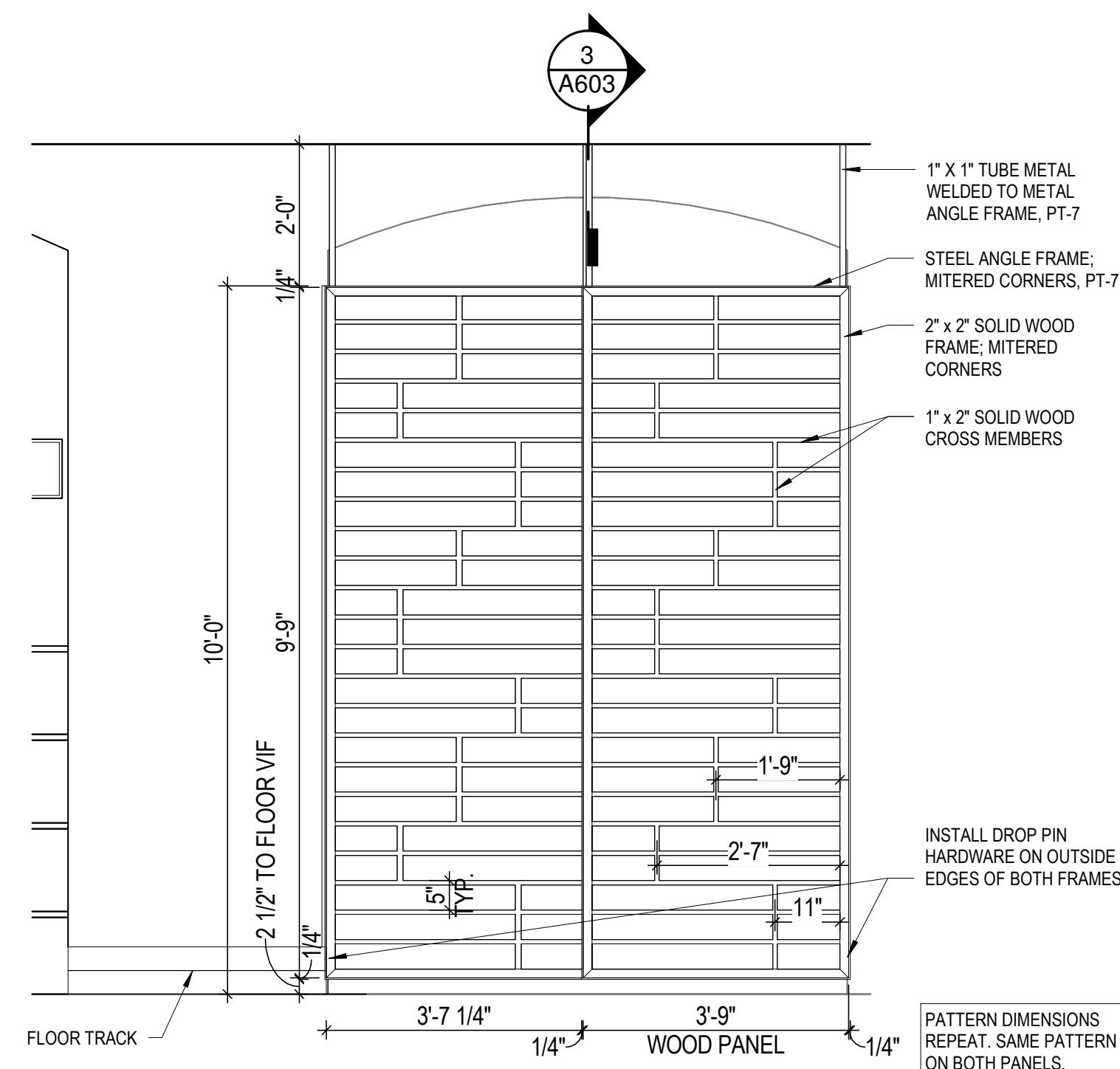


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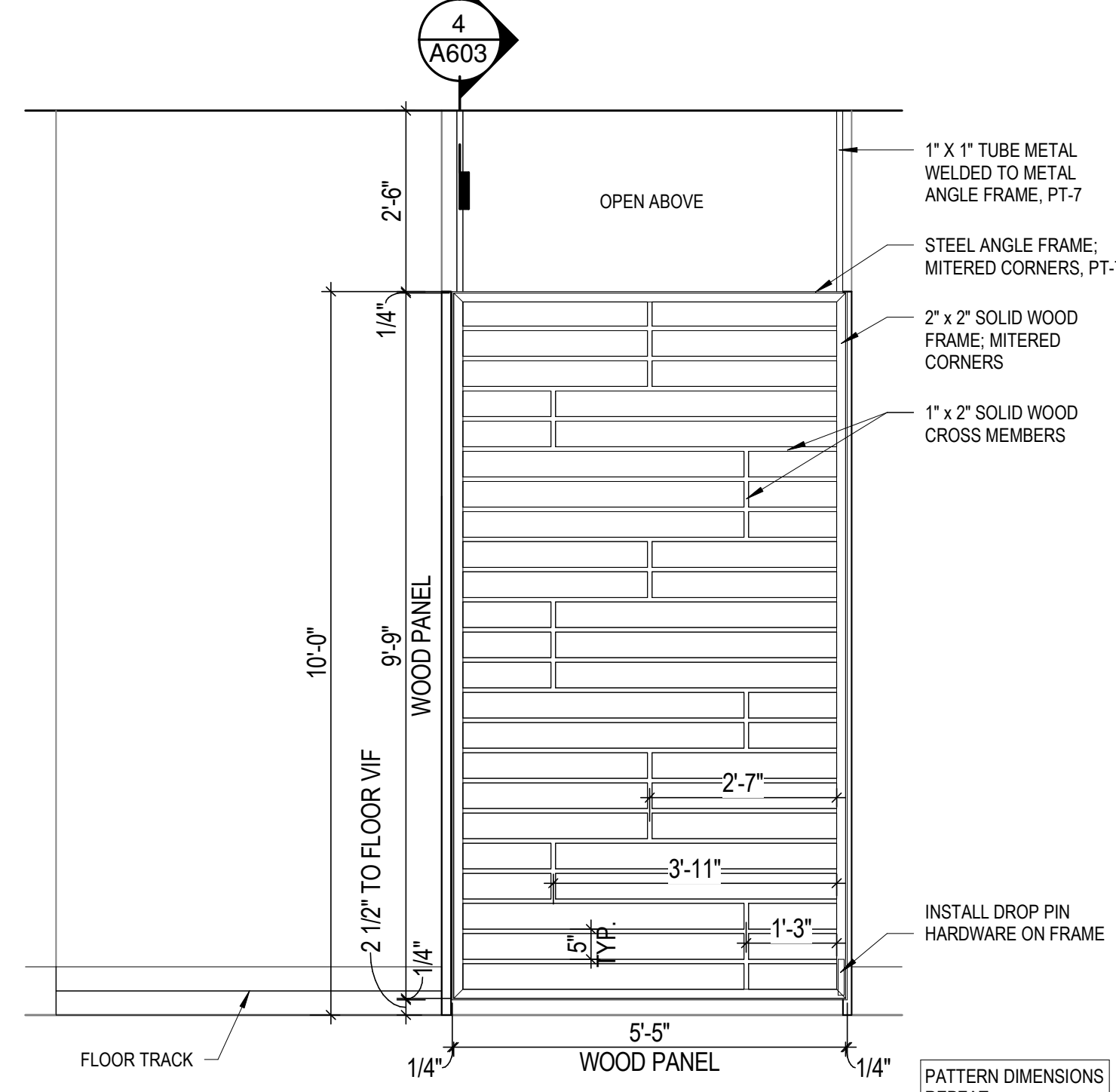
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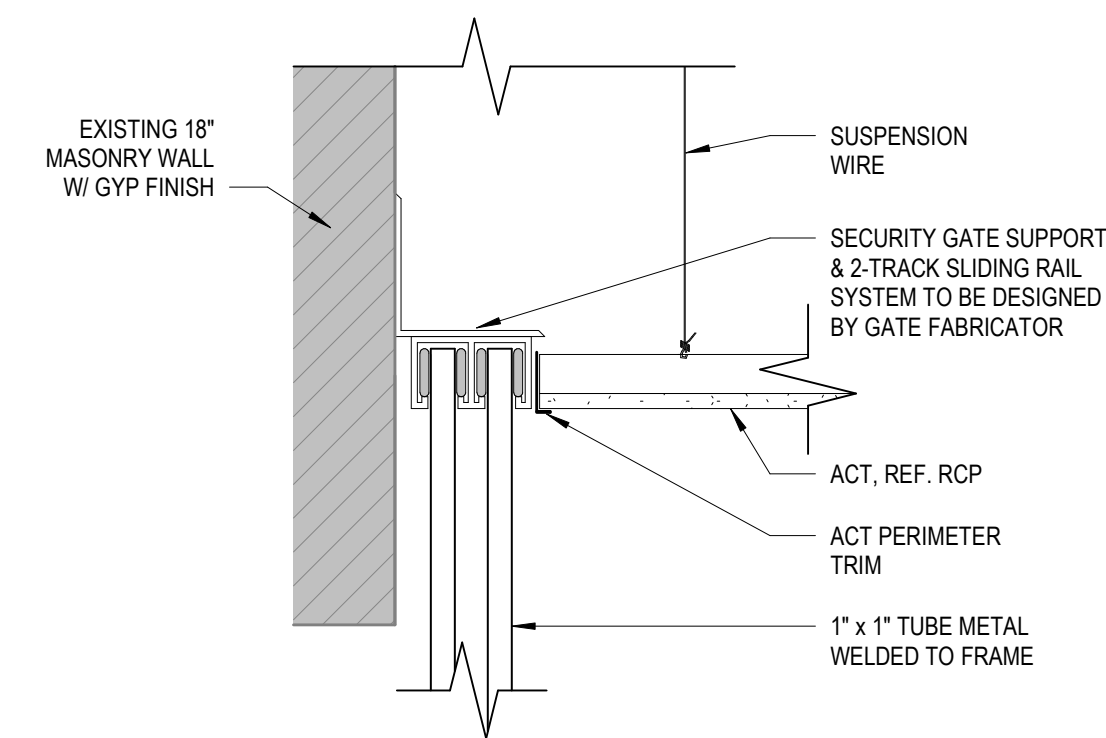
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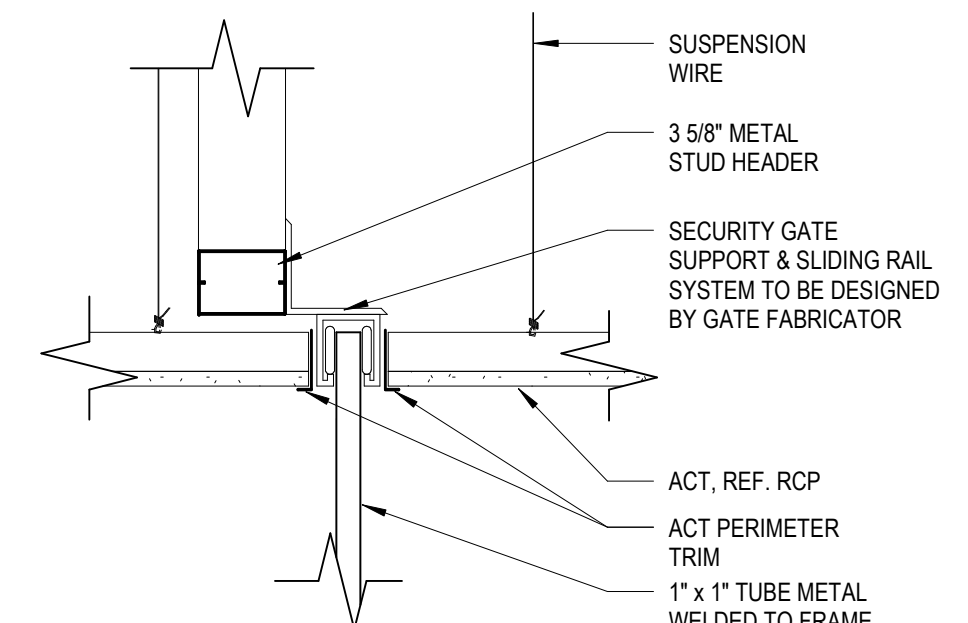
1 112 SLIDING SECURITY GATE ELEVATION
SCALE: 1/2" = 1'-0"



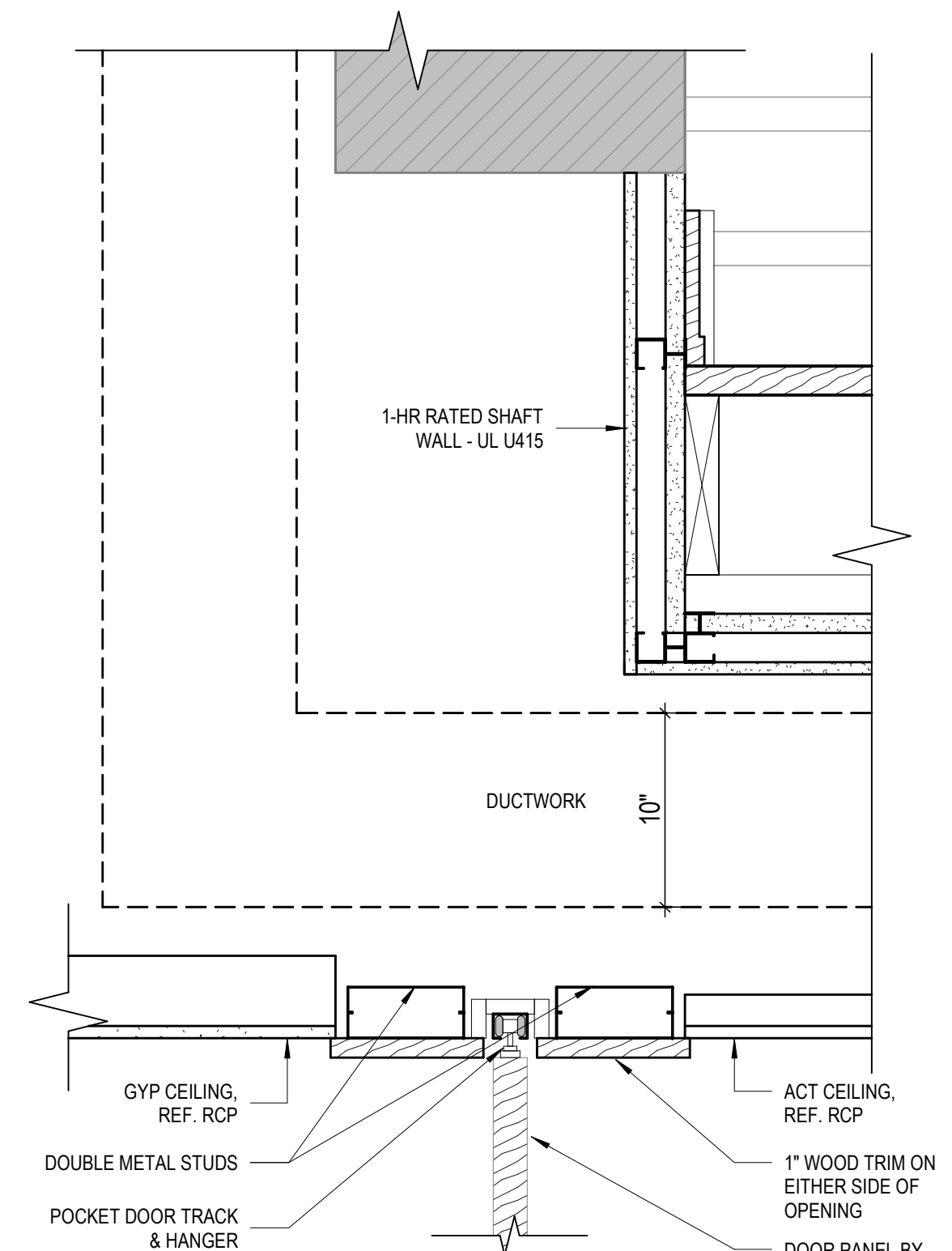
2 213 SLIDING SECURITY GATE ELEVATION
SCALE: 1/2" = 1'-0"



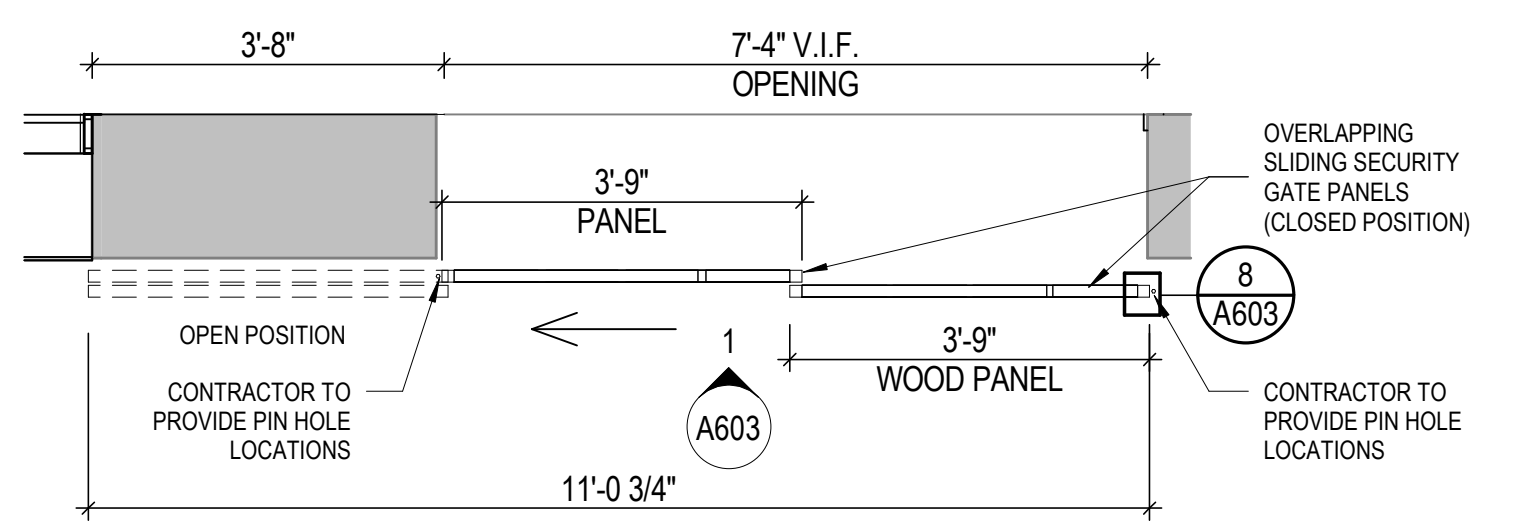
3 112 TOP RAIL DETAIL
SCALE: 1 1/2" = 1'-0"



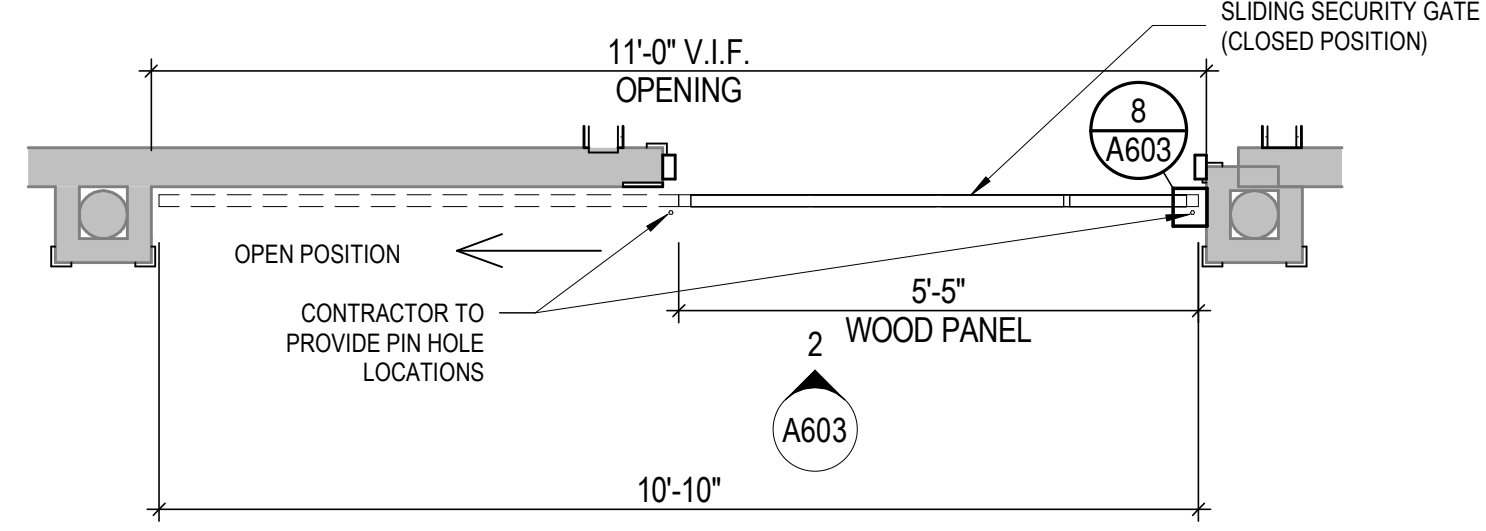
4 213 TOP RAIL DETAIL
SCALE: 1 1/2" = 1'-0"



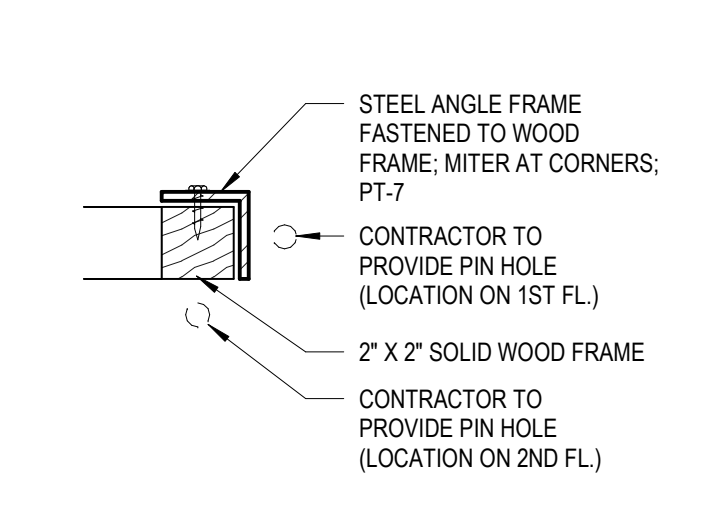
5 POCKET DOOR - HEAD DETAIL
SCALE: 1 1/2" = 1'-0"



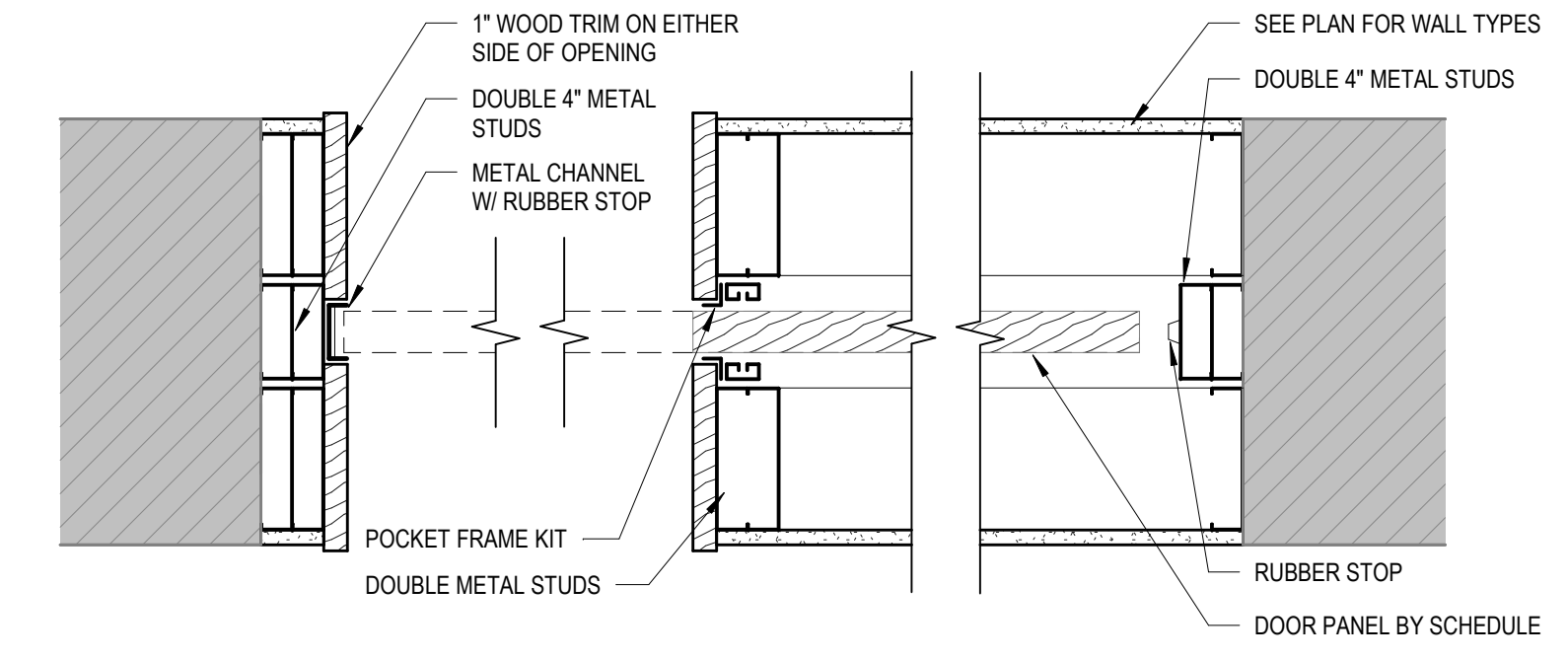
6 112 SECURITY GATE ENLARGED PLAN
SCALE: 1/2" = 1'-0"



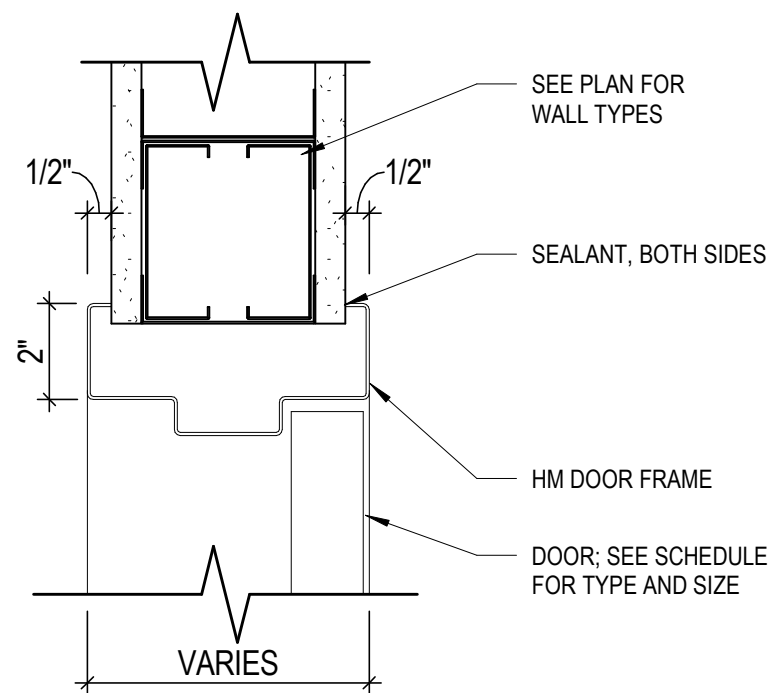
7 213 SECURITY GATE ENLARGED PLAN
SCALE: 1/2" = 1'-0"



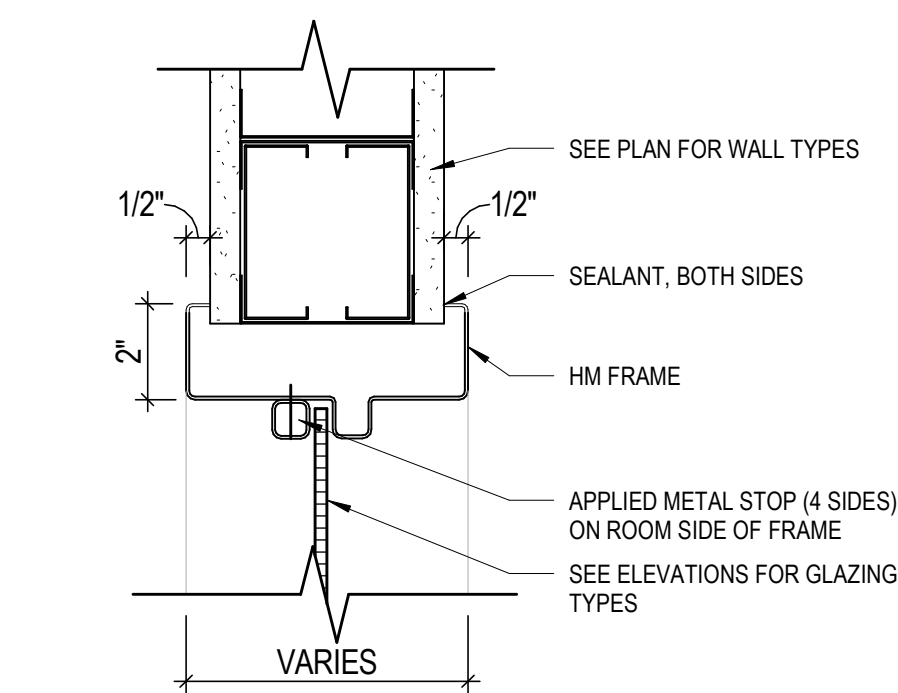
8 GATE PLAN DETAIL
SCALE: 3" = 1'-0"



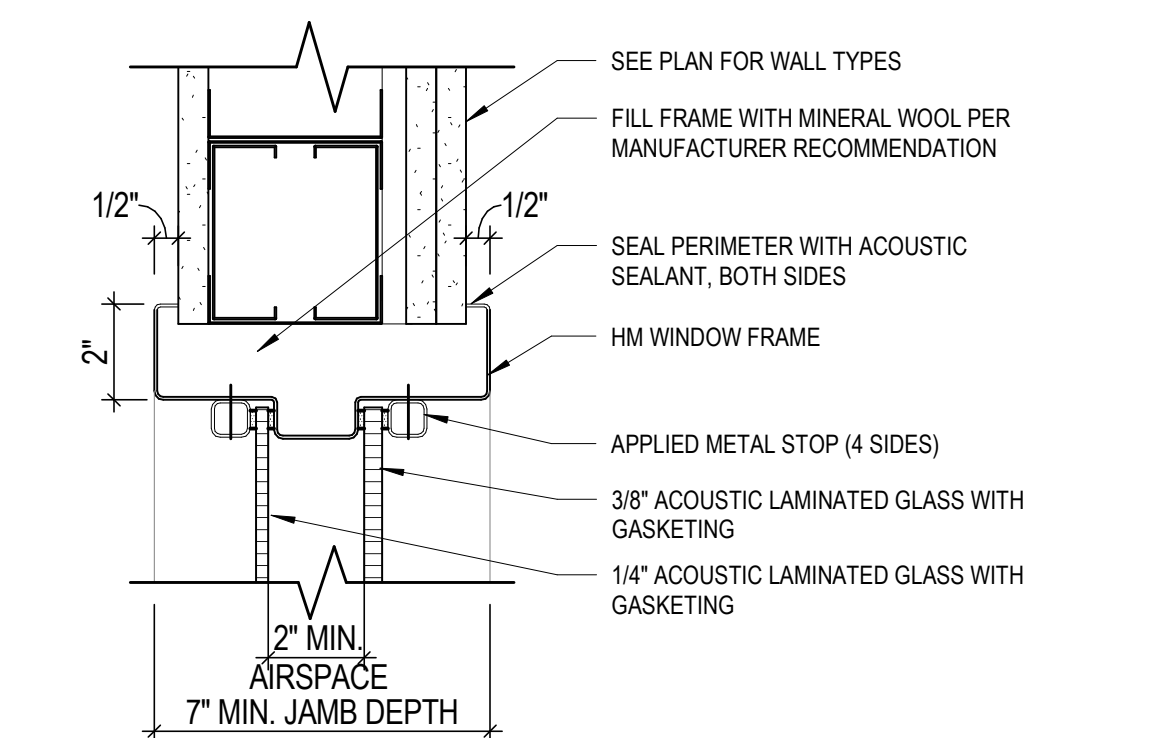
9 POCKET DOOR - JAMBS IN EXISTING OPENING
SCALE: 1 1/2" = 1'-0"



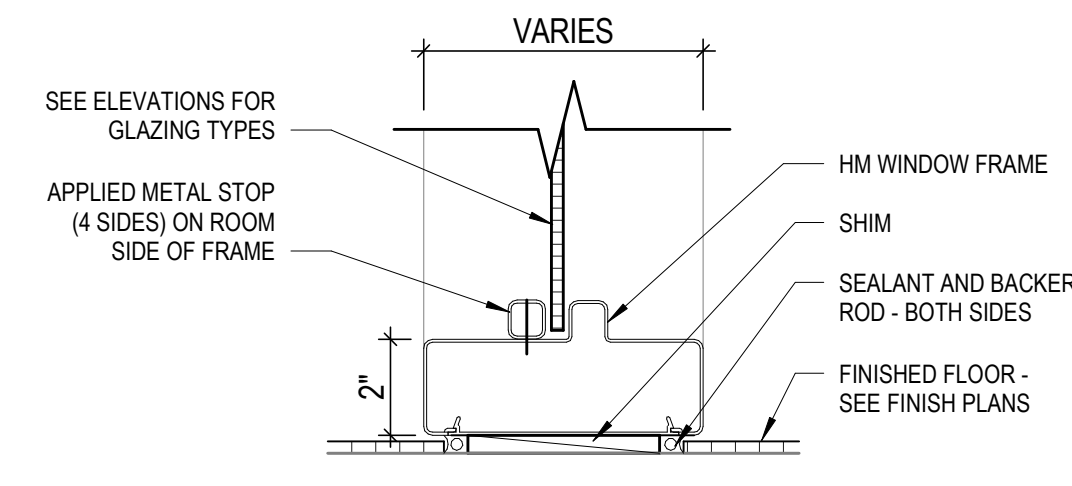
10 HM DOOR HEAD DETAIL
SCALE: 3" = 1'-0"



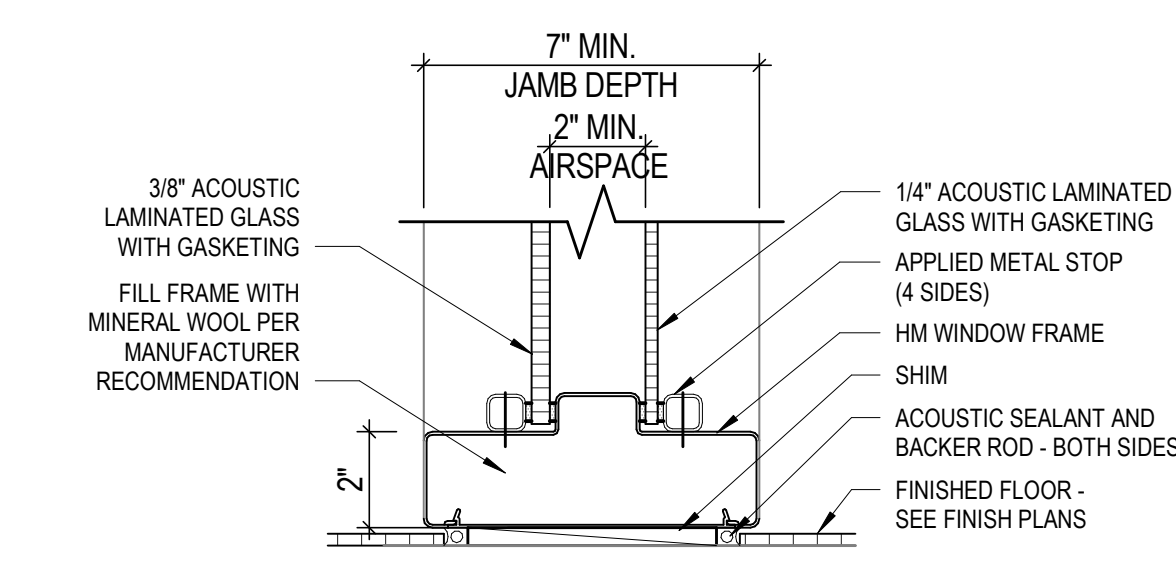
11 HM WINDOW HEAD DETAIL
SCALE: 3" = 1'-0"



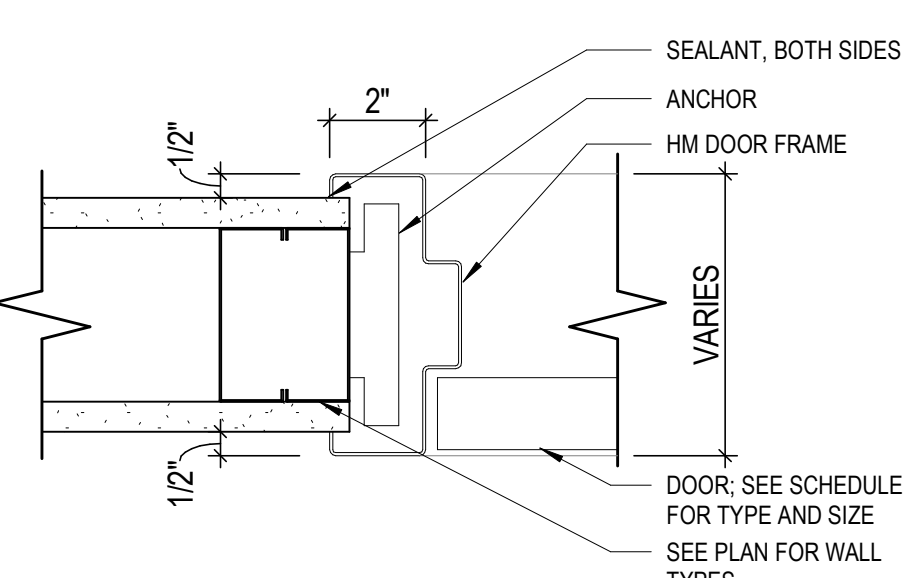
12 ACOUSTIC HM WINDOW HEAD DETAIL
SCALE: 3" = 1'-0"



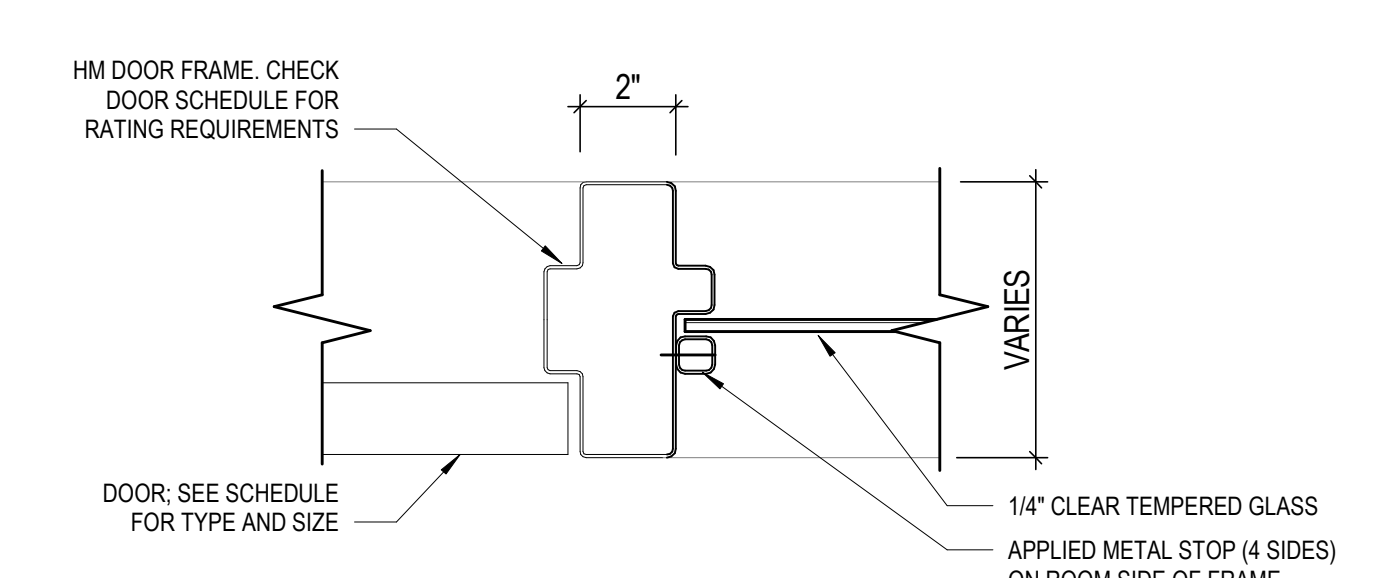
13 HM WINDOW SILL DETAIL
SCALE: 3" = 1'-0"



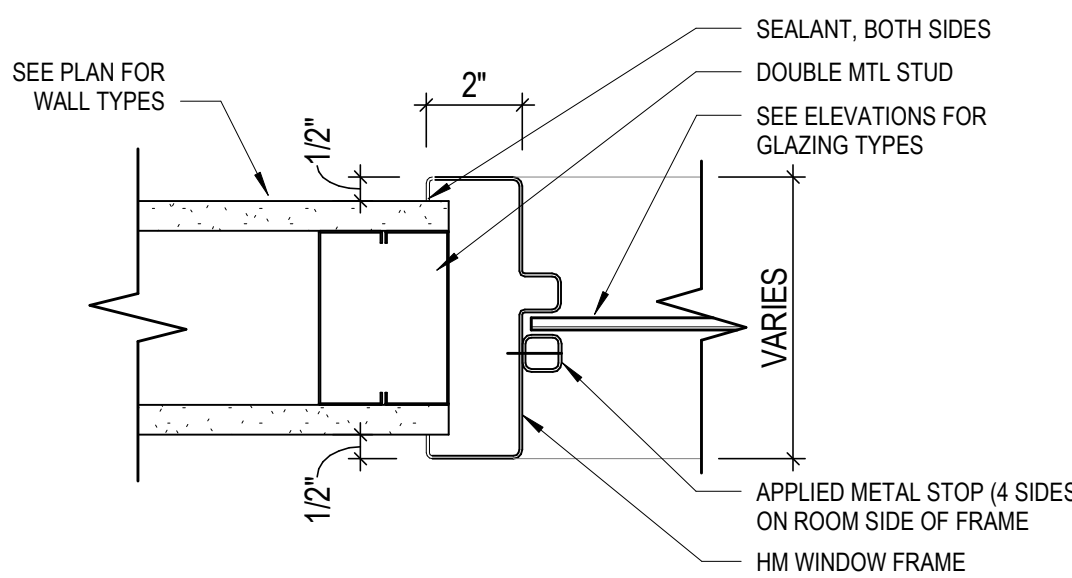
14 ACOUSTIC HM WINDOW SILL DETAIL
SCALE: 3" = 1'-0"



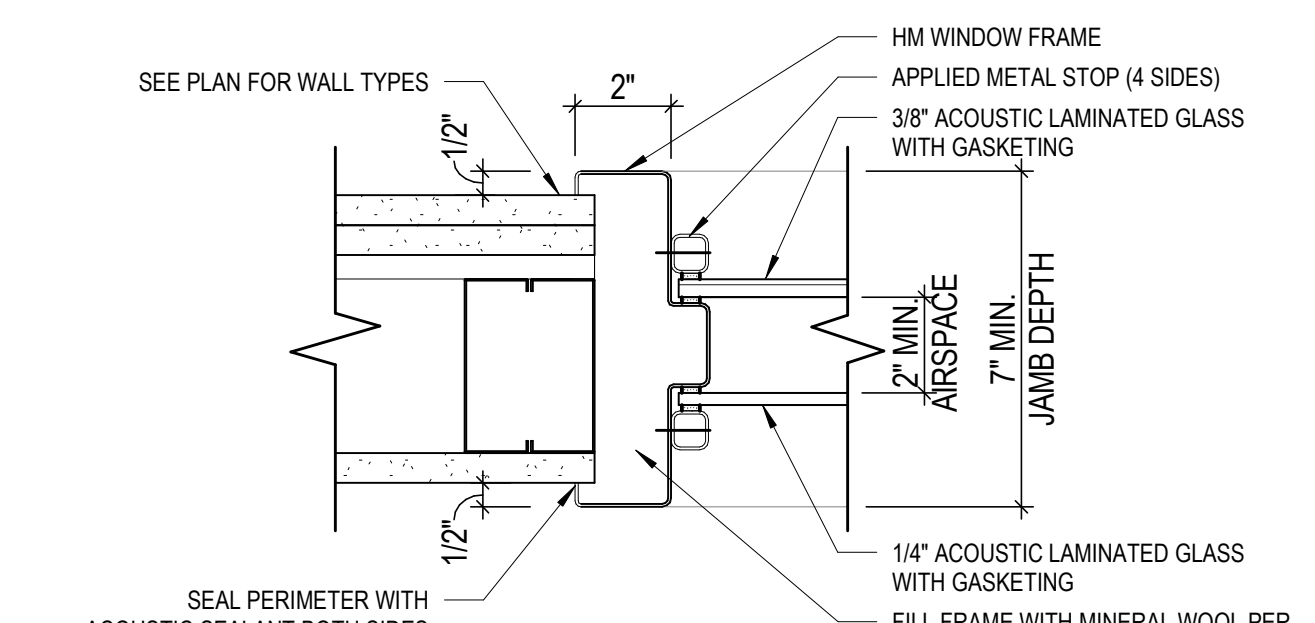
15 HM DOOR JAMB DETAIL
SCALE: 3" = 1'-0"



16 HM DOOR W/ SIDELITE JAMB DETAIL
SCALE: 3" = 1'-0"



17 HM WINDOW JAMB DETAIL
SCALE: 3" = 1'-0"



18 ACOUSTIC HM WINDOW JAMB DETAIL
SCALE: 3" = 1'-0"

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PERMIT AND BID	11-26-2024
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NO. DESCRIPTION	

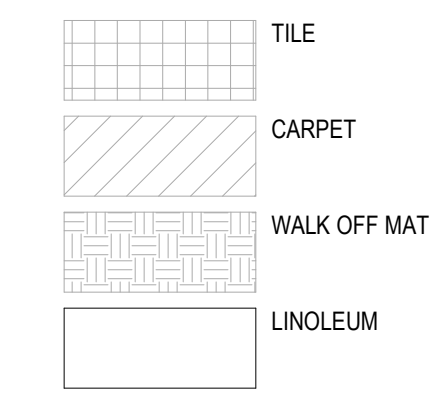
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**DOOR & WINDOW
DETAILS**

MATERIALS & FINISHES							
TAG	PRODUCT	MANUFACTURER	STYLE	COLOR	FINISH	SIZE	NOTES
ACT-1	ACOUSTIC CEILING TILE	ROCKFON	ALASKA SQUARE REGULAR NARROW 10200 SLN	WHITE		24" X 24" X 3/4"	SUSPENSION SYSTEM: 9/16" 4000 TEMPRA, WHITE
ACT-2	ACOUSTIC CEILING TILE	ROCKFON	HYGIENIC PLUS	WHITE		24" X 24" X 3/4"	SUSPENSION SYSTEM: 9/16" 4000 TEMPRA, WHITE
AWP-1	ACOUSTIC WALL PRODUCT	FRASCHI	STRATA 22MM	CHERRY ON NATURAL MDF / LIGHT GUMEL		22MM	
AWP-2	ACOUSTIC WALL PRODUCT (DIGITAL LAB)	ACOUFELT	WALL TILES ESSENTIALS SHAPES CIRCLE	IV11	100% FELT POLYESTER	12"X12"	SEE ELEVATION FOR QUANTITIES AND LOCATIONS
AWP-3	ACOUSTIC WALL PRODUCT (DIGITAL LAB)	ACOUFELT	WALL TILES ESSENTIALS SHAPES CIRCLE	PE21	100% FELT POLYESTER	12" X 12"	SEE ELEVATION FOR QUANTITIES AND LOCATIONS
AWP-4	ACOUSTIC WALL PRODUCT (DIGITAL LAB)	ACOUFELT	WALL TILES ESSENTIALS SHAPES CIRCLE	AL55	100% FELT POLYESTER	12" X 12"	SEE ELEVATION FOR QUANTITIES AND LOCATIONS
CG-1	CORNER GUARD	INPRO	160F FLUSH MOUNT CORNER GUARD	WHITE SAND 0103		RIGID VINYL	2" WING X 12" HEIGHT
CPT-1	CARPET	SHAW CONTRACT	5T036 VAPOR	37750 LINGER		18" X 36"	BRICK INSTALLATION
CPT-2	CARPET	SHAW CONTRACT	5T305 ENDLESS TILE	05595 UNTAMED		9" X 36"	ASHLAR INSTALLATION
CPT-3	CARPET	INTERFACE FLOOR	21-1452-02 AMONG THE WILDFLOWERS	PALM		19.69" X 19.69"	NON-DIRECTIONAL INSTALLATION
CPT-4	CARPET	INTERFACE FLOOR	21-1581-01 SPIRAL OUT	COCOA		50CM X 50CM	MONOLITHIC INSTALLATION
CT-1	CERAMIC TILE (FIREPLACE)	CERMIC TILEWORKS	BUILDER BASIC 3/8X2 HERRINGBONE	ANTIQUE WHITE	GLOSSY	3/8" X 2"	(11IN X 11.75IN SHEET)
CT-2	CERAMIC TILE (BASE)	VIRGINIA TILE	CROSSVILLE - BASALT CRVAV29412U	MAFIC		12" X 12"	12IN X 12IN PRODUCT TO BE CUT INTO 12IN X 6IN PIECES FOR BASE. LINE UP GROUT LINES TO FLOORING. SCHLUTER TRIM AT ALL CUT BASE EDGES
CT-3	CERAMIC TILE (FLOOR)	VIRGINIA TILE	CROSSVILLE - BASALT CRVAV29412U	MAFIC		12" X 12"	
CT-4	CERAMIC TILE (FIRST-THIRD FLOOR RR WALL)	CERAMIC TILEWORKS	GIOIA	BONE	GLOSSY	4" X 16"	TO BE INSTALLED IN A BRICK PATTERN
CT-5	CERAMIC TILE (DIRECTOR RR WALL)	CERAMIC TILEWORKS	BUILDER BASIC 3X6	BISCUIT	GLOSSY	3" X 6"	TO BE INSTALLED IN A BRICK PATTERN
CT-6	CERAMIC TILE (DRINKING FOUNTAINS)	PLATFORM SURFACES	CARAMELLA	CANYON BEIGE	GLOSSY	12" X 12"	TO BE INSTALLED HORIZONTALLY
CT-7	CERAMIC TILE (DEMO KITCHEN)	ADEX - MOSAICS	PENNY ROUND ADXPRTL PENNY	TEAL	GLOSSY		PENNY ROUND MOSAIC
DWC-1	DIGITAL WALLCOVERING (ADULTS WEST)	MDC	DIGITAL STUDIO - CUSTOM ART		MATTE		SEE ELEVATION CONTACT: MARISSA BAGIN mbagin@mdcowall.com
DWC-2	DIGITAL WALLCOVERING (ADULTS ALCOVE)	MDC	DIGITAL STUDIO - CUSTOM ART		MATTE		SEE ELEVATION CONTACT: MARISSA BAGIN mbagin@mdcowall.com
DWC-3	DIGITAL WALLCOVERING (COMPUTERS)	MDC	DIGITAL STUDIO - DDC2254 DASH	PLAID	MATTE		SEE FINISH PLANS CONTACT: MARISSA BAGIN mbagin@mdcowall.com
DWC-4	DIGITAL WALLCOVERING (KIDS HOUSE)	DESIGNTEX	DESIGNTEX DIGITAL STUDIO		SUEDE TEXTURED VINYL-DW13		SEE ELEVATION CONTACT: TRICIA WOLLERSHEIM twollersheim@designtex.com
DWC-5	DIGITAL WALLCOVERING (DIRECTOR RR)	MDC	DIGITAL STUDIO - CUSTOM ART		MATTE		SEE FINISH PLANS CONTACT: MARISSA BAGIN mbagin@mdcowall.com
GF-1	GLAZING FILM	3M FASARA	CLOUD NARROW SH2FGCN			ROLL SIZE: 50" X 94.6'	SEE A601 FOR LOCATIONS
GF-2	GLAZING FILM	MDC CUSTOM	CUSTOM				TO MATCH BENJAMIN MOORE DEL MAR BLUE 704
GT-1	GROUT	MAPEI		5004 BAHAMA BEIGE			FIREPLACE TILE
GT-2	GROUT	MAPEI		5007 CHOCOLATE			RESTROOM FLOOR AND BASE TILE
GT-3	GROUT	MAPEI		5004 BAHAMA BEIGE			RESTROOM WALL TILE
GT-4	GROUT	MAPEI		5004 BAHAMA BEIGE			RESTROOM WALL TILE
GT-5	GROUT	MAPEI		5004 BAHAMA BEIGE			DRINKING FOUNTAIN WALL TILE
GT-6	GROUT	MAPEI		5039 IVORY			DEMO KITCHEN BACKSPLASH
LIN-1	LINOLEUM (ADULTS WEST/EAST)	FORBO	MARMOLEUM CONCRETE	3752 TAIGA			NET FIT SEAMS
LIN-2	LINOLEUM (ADULTS WEST/EAST)	FORBO	MARMOLEUM CONCRETE	3751 TUNDRA			NET FIT SEAMS
LIN-3	LINOLEUM (COMPUTERS/HALL)	FORBO	MARMOLEUM REAL	3236 DARK BISTRE			NET FIT SEAMS
LIN-4	LINOLEUM (KIDS)	FORBO	MARMOLEUM REAL	3881 GREEN WELLNESS			NET FIT SEAMS
LIN-5	LINOLEUM (KIDS)	FORBO	MARMOLEUM REAL	3053 DOVE BLUE			NET FIT SEAMS
LIN-6	LINOLEUM (FLEX SPACE)	FORBO	MARMOLEUM VIVACE	3405 GRANADA			NET FIT SEAMS
PLAM-1	PLASTIC LAMINATE	FORMICA	08844-WR	AGED ASH		WOODBURSH	
PLAM-2	PLASTIC LAMINATE	NEVAMAR	S-2084	FOUNDRY		TEXTURED	
PT-1	PAINT (FIELD)	SHERWIN WILLIAMS	SW 7566	WESTHIGHLAND WHITE		EGGSHELL	
PT-2	PAINT (FIREPLACE LOUNGE, COMPUTER ROOM, WINDOW SILLS)	SHERWIN WILLIAMS	SW 7026	GRIFFIN		EGGSHELL	
PT-3	PAINT (TEEN)	SHERWIN WILLIAMS	SW 9129	JADE DRAGON		EGGSHELL	
PT-4	PAINT (TEEN STRIPE ACCENT)	SHERWIN WILLIAMS	SW 6375	HONEYCOMB		EGGSHELL	
PT-5	PAINT (KIDS SKY ACCENT)	SHERWIN WILLIAMS	SW 6239	UPWARD		EGGSHELL	
PT-6	PAINT (RECEPTION AND COMPUTER ACCENT)	BENJAMIN MOORE	705	HEAVENLY BLUE		EGGSHELL	
PT-7	PAINT (KIDS ACCENT, GATES)	BENJAMIN MOORE	AF-340	OAT STRAW		EGGSHELL	
PT-8	PAINT (ACCENT)	PPG PAINTS	PPG1025-4	SHARKSKIN		EGGSHELL	
PT-9	PAINT (METAL GATE FRAME, WINDOWS)	BENJAMIN MOORE	2128-10	BLACK BEAUTY			ALL WINDOWS
PT-10	PAINT (RESTROOMS)	SHERWIN WILLIAMS	SW 7568	NEUTRAL GROUND		EGGSHELL	
PT-11	PAINT (KIDS TREE CANOPY ACCENT 1)	SHERWIN WILLIAMS	SW 6415	HEARTS OF PALM		EGGSHELL	
PT-12	PAINT (KIDS TREE CANOPY ACCENT 2)	SHERWIN WILLIAMS	SW 6416	SASSY GREEN		EGGSHELL	
QZ-1	QUARTZ	DIRESCO	B015	BELGIAN EARTH		POLISHED	
RB-1	RUBBER BASE	TARKETT JOHNSONITE		BASEWORKS, WITH TOE		4" HIGH	
RWP-1	RIGID WALL PANEL	INPRO	PALLADIUM RIGID SHEET WALL PROTECTION	WHITE SAND 0103			
SC-1	SEALED CONCRETE						
SSM-1	SOLID SURFACE MATERIAL (WINDOW SILLS)	CORIAN		SERENE SAGE			ALL WINDOW SILLS
ST-1	NATURAL STONE SLAB (FIREPLACE)	DALTILE	BLACK SOAPSTONE SLAB	S601	HONED		
TWP-1	TEXTURED WALL PANEL	SOELBERG	FLUME MDF CORE	WHITE		34"	VERTICAL INSTALLATION. CONTACT: KRISTIN PESCHKE kristin@adkdesign.space
UPH-1	UPHOLSTERY (LOBBY BENCH)	MOMENTUM	GROOVE EPU	GUIDE			
UPH-2	UPHOLSTERY (KIDS CUSHIONS)	ARC COM	GLO AC-62592	CITRON #3			
UPH-3	UPHOLSTERY (THIRD FLOOR BENCH)	LUJUM	TOP COAT 4083-13	SHELLAC			
VCT-1	VINYL COMPOSITE TILE	TARKETT	TARKETT VCT II	501 ALMOND WB		12" X 12"	
VWC-1	VINYL WALLCOVERING (KIDS)	CHASING PAPER	WILD	GREY	MATTE PERFORMANCE VINYL	SEE ELEVATION	CONTACT: LAURA SCHLIFER laura@chasingpaper.com
VWC-2	VINYL WALLCOVERING (SECOND FLOOR RR)	CHASING PAPER	STACKED	HUNTER GREEN	MATTE PERFORMANCE VINYL	SEE ELEVATION	CONTACT: LAURA SCHLIFER laura@chasingpaper.com
VWC-3	VINYL WALLCOVERING (FIRST FLOOR RR)	MITCHELL BLACK	ORANGE GROVE	BLUE CREAM FLORAL	COMMERCIAL TYPE II VINYL	SEE ELEVATION	
VWC-4	VINYL WALLCOVERING (THIRD FLOOR RR)	CHASING PAPER	GREATFUL THREAD	WHITE/CHARTREUSE	MATTE PERFORMANCE VINYL	SEE ELEVATION	CONTACT: LAURA SCHLIFER laura@chasingpaper.com
WC-1	WALLCOVERING (MAIN STAIR)	MOMENTUM	WALLCOVERING SILENCE	ASIL-21 WHISPERING WIND			INSTALLATION: RAILROADED.
WD-1	WOOD	CUSTOM	ASH - QUARTER SAWN	STAIN TO MATCH PLAM-1			STAIN TO MATCH ARCHITECTS SAMPLE
WDB-1	WOOD BASE	CUSTOM	ASH - QUARTER SAWN	STAIN TO MATCH PLAM-1		8" STRAIGHT BASE	STAIN TO MATCH ARCHITECTS SAMPLE
WM-1	WALK OFF MAT CARPET TILE	MOHAWK GROUP	STEP UP II	938	IRON ORE	24" X 24"	BRICK ASHLAR INSTALLATION
WT-1	WINDOW TREATMENT	MECHO ECOSHEER	6750 SERIES				
WV-1	WOOD VENEER	CUSTOM	ASH - QUARTER SAWN	STAIN TO MATCH PLAM-1			TO MATCH ARCHITECT SAMPLE

FINISH SCHEDULE										
RM #	ROOM NAME	FLOORS	BASE	WALL FINISH				CEILING	REMARKS	RM #
		FINISH	FINISH	NORTH FINISH	EAST FINISH	SOUTH FINISH	WEST FINISH	FINISH		
B03	ELEC	SC-1	RB-1	ETR	ETR	ETR	ETR	ETR	ADD ALTERNATE #4	B03
B13	IT ROOM	ETR	RB-1	PT-1	PT-1	PT-1	PT-1	ETR		B13
S01	NORTH STAIR	ETR	ETR	PT-1	PT-1	PT-1	PT-1	ETR	ADD ALTERNATE #2	S01
S02	SOUTH STAIR	ETR	ETR	PT-1	PT-1	PT-1	PT-1	ETR	ADD ALTERNATE #2	S02
101	VESTIBULE	WM-1	WDB-1	PT-1	PT-1	PT-1	PT-1	ACT-1		101
102	FIREPLACE LOUNGE	CPT-1 / CPT-3	WDB-1	PT-2	PT-2	PT-2	PT-2	ACT-1	ADD ALTERNATE #1; CT-1 ACCENT ON FIREPLACE, SEE ELEVATION	102
103	STORAGE	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	OTS-1		103
104	STUDY	CPT-1	WDB-1	PT-1	PT-1	PT-1	PT-8	ACT-1		104
105	ADULTS WEST	CPT-1 / LIN-1 / LIN-2	WDB-1	PT-1	PT-1	PT-1	DWC-1 / PT-6 / PLAM-1	ACT-1	DWC-1 ON WEST WALL, SEE FINISH PLANS	105
106	ADULTS EAST	CPT-1 / LIN-1 / LIN-2	WDB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	ADD ALTERNATE #1	106
107	VESTIBULE	WM-1	WDB-1	PT-1	PT-1	PT-1	PT-1	ACT-1		107
108	LOBBY	LIN-1 / LIN-2	WDB-1	PT-1	PT-1	PT-1	PT-1	GYP / PT-1		108
109	VEST.	WM-1	WDB-1	PT-1	PT-1	PT-1	PT-1	ACT-1		109
110	WORKROOM	CPT-1	WDB-1	PT-1	PT-1	PT-1	PT-1	ACT-1		110
111	HALL	LIN-3	WDB-1	PT-1 / PT-6 / DWC-3	PT-1	PT-2	CT-6	ACT-1	PT-2 ACCENT, SEE FINISH PLANS	111
112	COMPUTERS	LIN-3	WDB-1	PT-1 / PT-6	PT-1	PT-1 / DWC-3	PT-1	ACT-1	FREESTANDING WALL BETWEEN 111 AND 112, ALL SIDES TO BE DWC-3	112
113	JC	VC1-1	RB-1	RWP-1	RWP-1	RWP-1	RWP-1	OTS-1		113
114	RR	CT-3	CT-2	PT-10	CT-4 / VWC-3	CT-4 / VWC-3	CT-4 / VWC-3	GYP / PT-10		114
115	RR	CT-3	CT-2	PT-10	CT-4 / VWC-3	CT-4 / VWC-3	CT-4 / VWC-3	GYP / PT-10		115
116	DIRECTOR	CPT-1	WDB-1	PT-1	PT-1	PT-1	PT-1	ACT-1		116
117	RR	CT-3	CT-2	CT-5 / DWC-5	CT-5 / DWC-5	PT-10	CT-5 / DWC-5	GYP / PT-10		117
119	HALL	CPT-1	WDB-1	PT-1	PT-1	PT-1	PT-1	ACT-1		119
S11	NORTH STAIR	ETR	ETR	PT-1	PT-1	PT-1	PT-1	ETR	ADD ALTERNATE #2	S11
S12	SOUTH STAIR	ETR	ETR	PT-1	PT-1	PT-1	PT-1	ETR	ADD ALTERNATE #2	S12
201	KIDS	CPT-1 / LIN-4 / LIN-5	WDB-1	PT-1 / PT-5 / PT-7	PT-1 / PT-5 / PT-7	PT-1 / PT-5 / PT-7	PT-1 / PT-7 / VWC-1	ACT-1		201
202	SENSORY	CPT-2	WDB-1	PT-5	PT-5	PT-5	TWP-1 / PT-5	ACT-1		202
203	STUDY	CPT-1	WDB-1	PT-1	PT-1	PT-1	PT-8	ACT-1		203
204	STUDY	CPT-1	WDB-1	PT-1	PT-1	PT-1	PT-8	ACT-1		204
205	ADULTS	CPT-1	WDB-1	PT-1	PT-1	PT-1	PT-1	ACT-1		205
206	ALCOVE	CPT-1	WDB-1	PT-1	PT-1	PT-1	DWC-2	ACT-1		206
208	TEENS	CPT-1	WDB-1	PT-1 / PT-3 / PT-4	PT-1 / PT-3 / PT-4	PT-1 / PT-3 / PT-4	PT-1 / PT-3 / PT-4	ACT-1		208
209	STAFF	CPT-1	WDB-1	PT-1	PT-1	PT-1	PT-1	ACT-1		209
210	MEETING	CPT-4	WDB-1	PT-1	PT-1	PT-2	PT-1	ACT-1		210
211	RR	CT-3	CT-2	CT-4 / VWC-2	PT-10	CT-4 / VWC-2	CT-4 / VWC-2	GYP / PT-10		211
212	RR	CT-3	CT-2	CT-4 / VWC-2	PT-10	CT-4 / VWC-2	CT-4 / VWC-2	GYP / PT-10		212
213	HALL	LIN-3	WDB-1	PT-1	PT-1	PT-1	PT-1 / CT-6	ACT-1		213
214	STORAGE	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	OTS-1		214
215	MAIN STAIR	WD-1	WDB-1	PT-1	PT-1	DWC-3	PT-1	ACT-1		215
S21	NORTH STAIR	ETR	ETR	PT-1	PT-1	PT-1	PT-1	ETR	ADD ALTERNATE #2	S21
S22	SOUTH STAIR	ETR	ETR	PT-1	PT-1	PT-1	PT-1	ETR	ADD ALTERNATE #2	S22
301	MEETING ROOM	CPT-1 / CPT-3	WDB-1	PT-1	PT-1	PT-1	PT-1	ACT-1 / GYP / PT-1		301
302	ROOF ACCESS	VC1-1	RB-1	PT-1	PT-1	PT-1	PT-1	OTS-1		302
303	STORAGE	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1		303
304	HALL	CPT-1 / CPT-3	WDB-1	PT-1	PT-1	PT-1	PT-8 / AWP-1	ACT-1 / GYP / PT-1		304
305	STORAGE	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1		305
306	MEETING ROOM	CPT-4	WDB-1	PT-2	PT-1	PT-1	PT-1	ACT-1		306
307	MEETING ROOM	CPT-4	WDB-1	PT-1	PT-1	PT-2	PT-1	ACT-1		307
308	DIGITAL LAB	CPT-1	WDB-1	PT-1	PT-1	PT-1	PT-1	ACT-1		308
309	MECHANICAL	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	OTS-1		309
310	MECHANICAL	VCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	OTS-1		310
311	STAFF LOUNGE	CPT-1	WDB-1	PT-1	PT-1	PT-1	PT-1	ACT-1		311

FLOORING LEGEND



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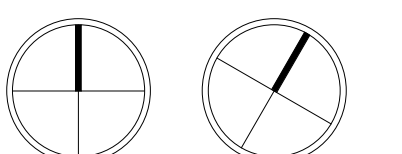
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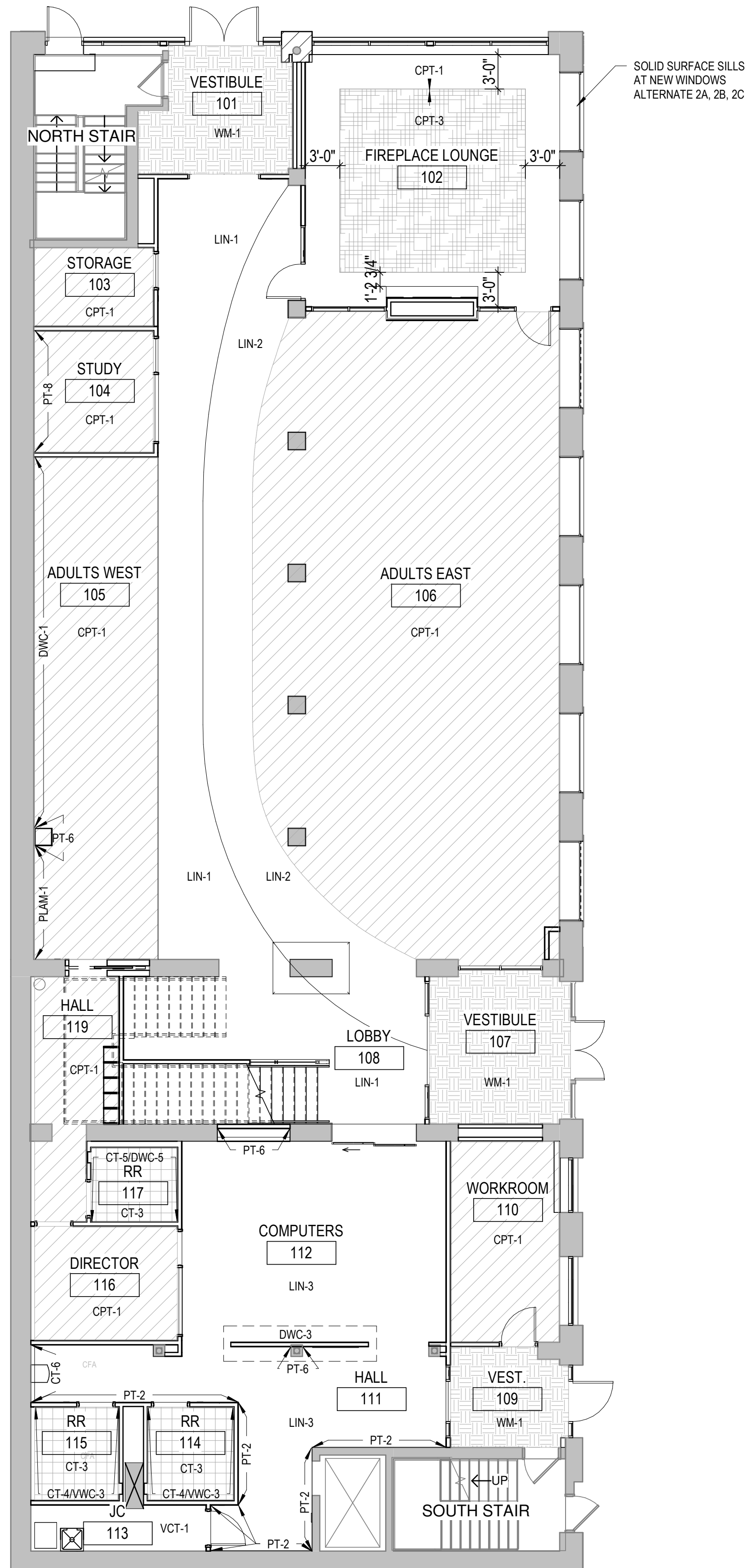
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**1ST-3RD FLOOR
FINISH PLANS**

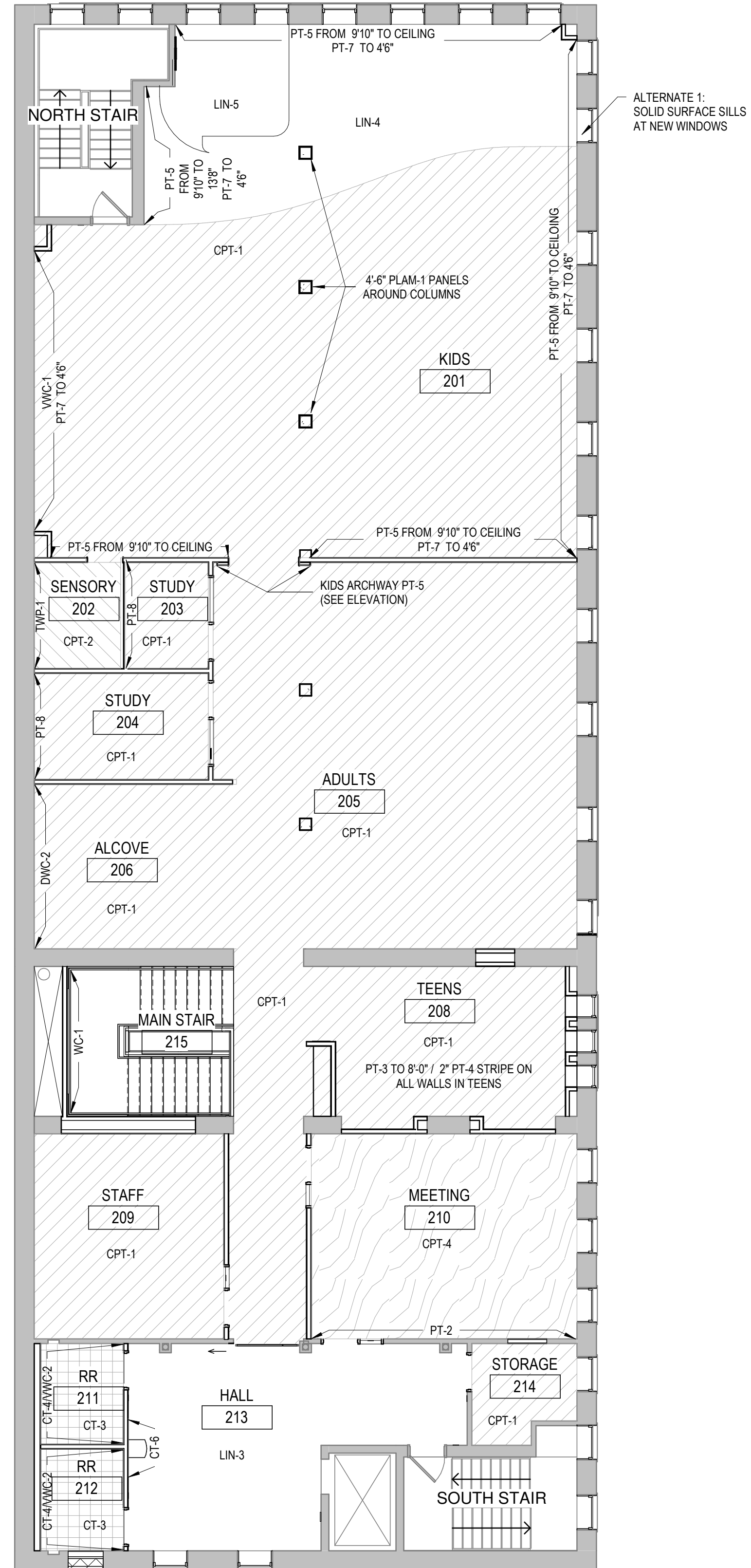


Plan North True North

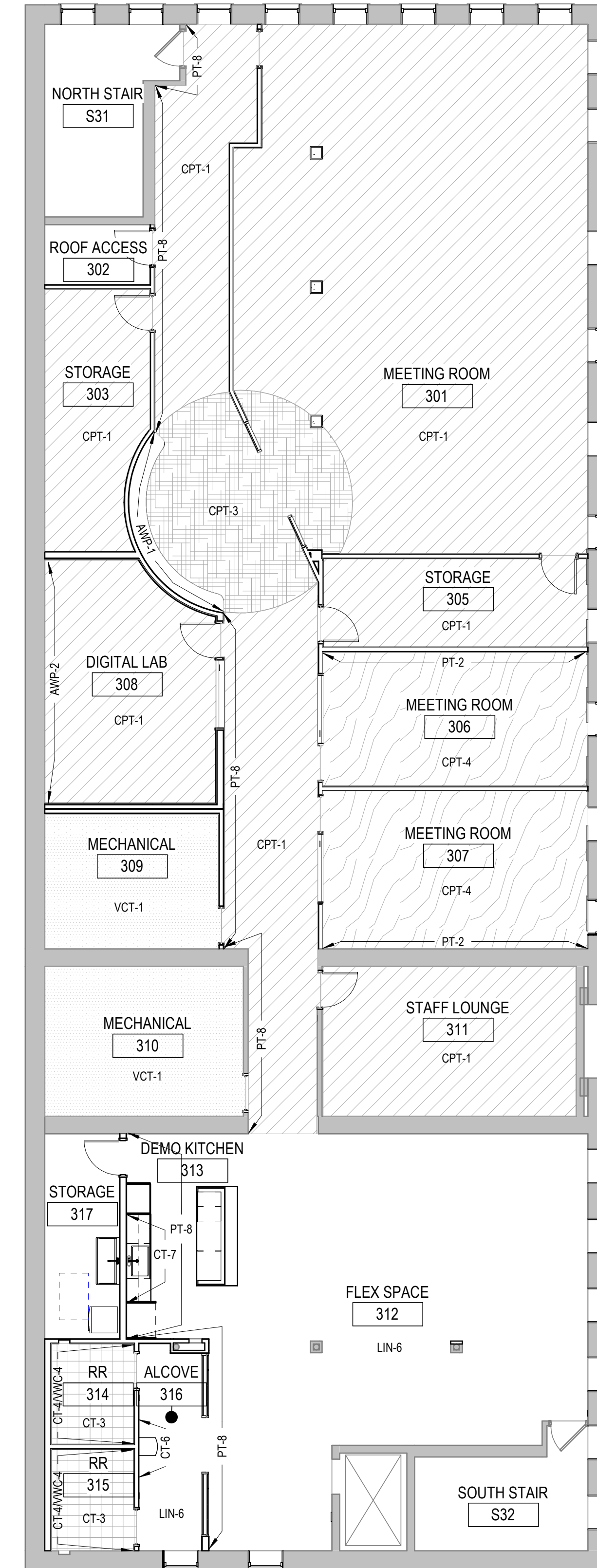
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1 1ST FLOOR FINISH PLAN
SCALE: 1/8" = 1'-0"

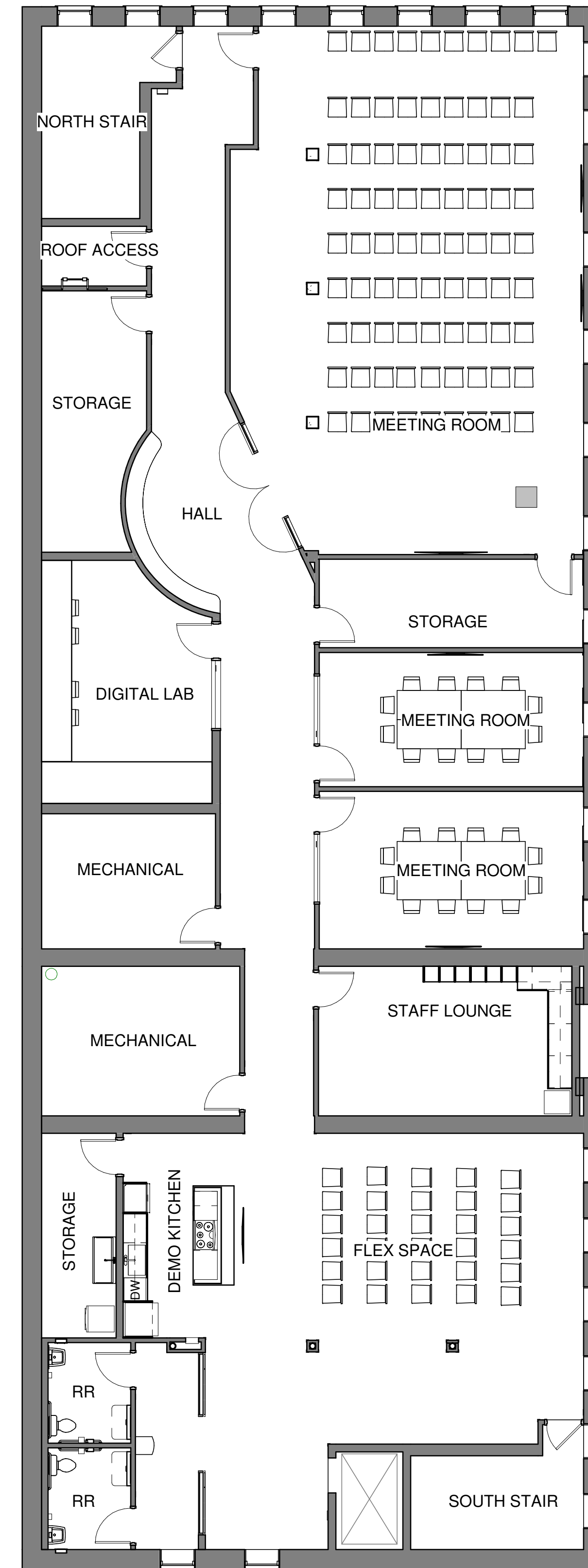
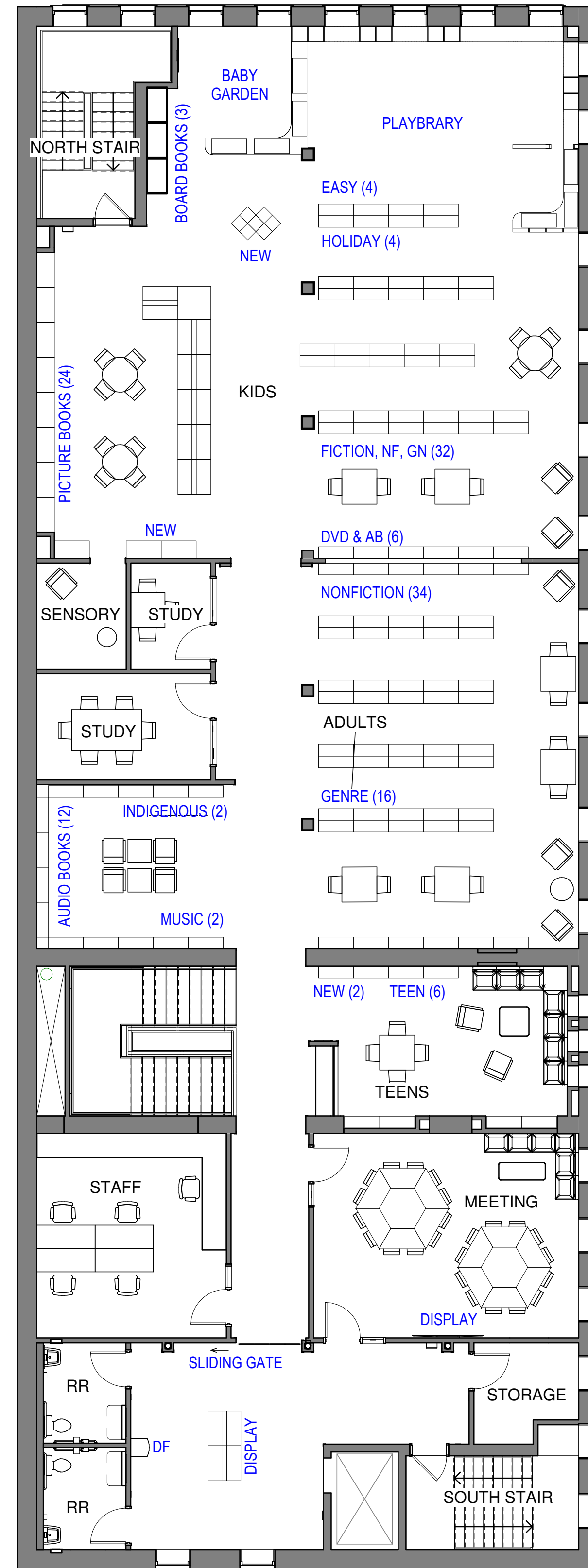
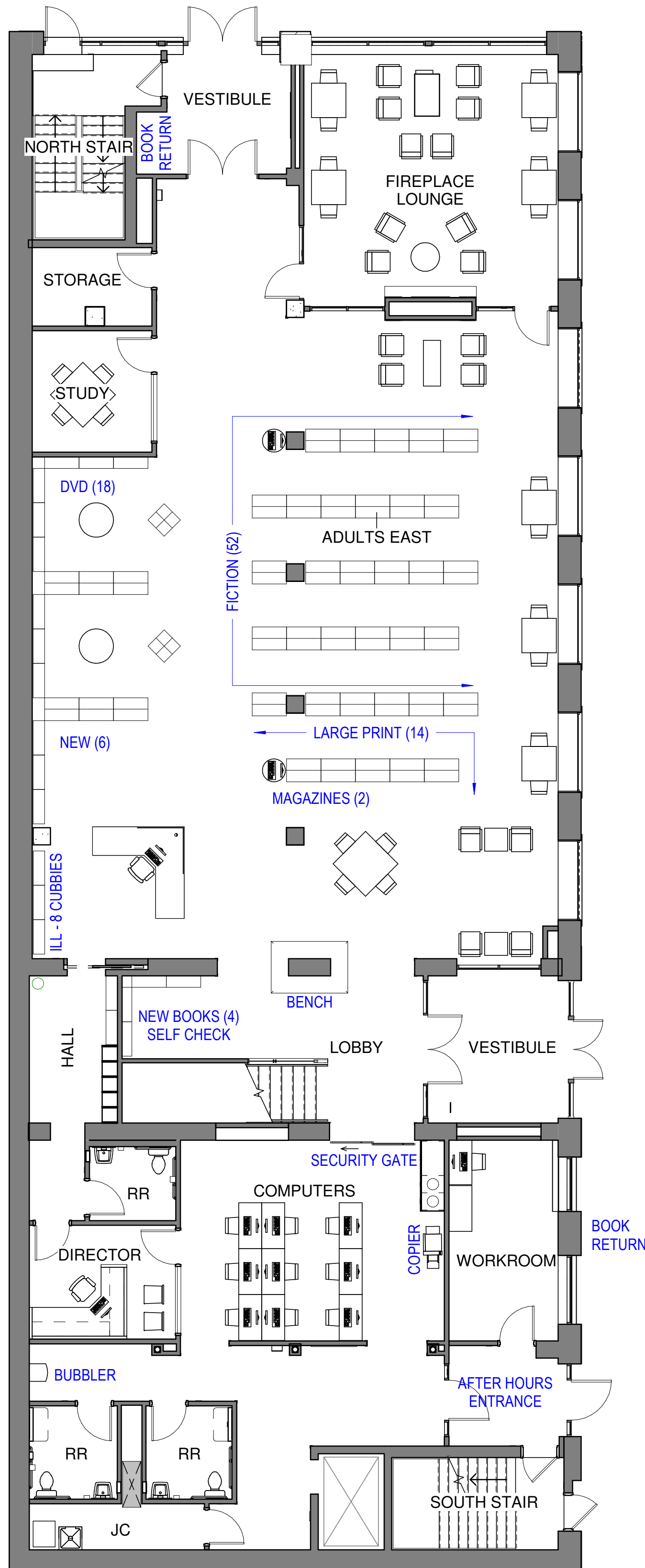


2 2ND FLOOR FINISH PLAN
SCALE: 1/8" = 1'-0"



3 3RD FLOOR FINISH PLAN
SCALE: 1/8" = 1'-0"

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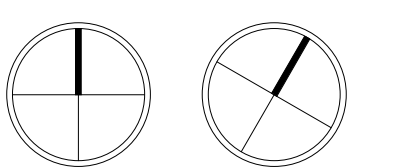
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**FURNITURE PLANS
FOR REFERENCE
ONLY**



Plan North True North

1 1ST FLOOR FURNITURE PLAN
SCALE: 1/8" = 1'-0"

2 2ND FLOOR FURNITURE PLAN
SCALE: 1/8" = 1'-0"

3 3RD FLOOR FURNITURE PLAN
SCALE: 1/8" = 1'-0"

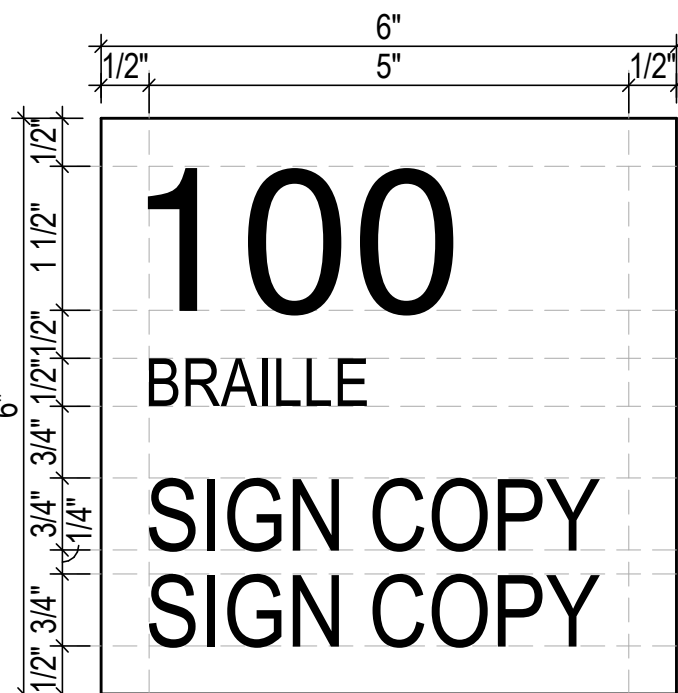
SIGNAGE SCHEDULE				
RM #	ROOM NAME	SIGN ID	SIGN TYPE	TEXT TO READ
101	VESTIBULE	ID-101.2	TYPE E	EXIT
102	FIREPLACE LOUNGE	ID-102.1	TYPE A	MAIN STREET LOUNGE
102	FIREPLACE LOUNGE	ID-102.2	TYPE A	MAIN STREET LOUNGE
103	STORAGE	ID-103.1	TYPE A	STORAGE
104	STUDY	ID-104.1	TYPE A	STUDY TEAL
107	VESTIBULE	ID-107.2	TYPE E	EXIT
109	VESTIBULE	ID-109.2	TYPE E	EXIT
110	WORKROOM	ID-110.1	TYPE A	STAFF
113	JC	ID-113.1	TYPE A	JANITOR
114	RR	ID-114.1	TYPE B	RESTROOM
115	RR	ID-115.1	TYPE B	RESTROOM
116	DIRECTOR	ID-116.1	TYPE A	DIRECTOR
117	RR	ID-117.1	TYPE B	RESTROOM
119	HALL	ID-119.1	TYPE A	STAFF
203	STUDY	ID-203.1	TYPE A	STUDY BLUE
204	STUDY	ID-204.1	TYPE A	STUDY GREEN
209	STAFF	ID-209.1	TYPE A	STAFF
210	MEETING	ID-210.1	TYPE A	MEETING BROWN
210	MEETING	ID-210.2	TYPE A	MEETING BROWN
211	RR	ID-211.1	TYPE B	RESTROOM
212	RR	ID-212.1	TYPE B	RESTROOM
214	STORAGE	ID-214.1	TYPE A	STORAGE
301	LARGE MEETING ROOM	ID-301.1	TYPE A	MEETING GOLD
301	LARGE MEETING ROOM	ID-301.2	TYPE A	MEETING GOLD
302	ROOF ACCESS	ID-302.1	TYPE A	STAFF
303	STORAGE	ID-303.1	TYPE A	STORAGE
305	STORAGE	ID-305.1	TYPE A	STORAGE
305	STORAGE	ID-305.2	TYPE A	STORAGE
306	MEETING ROOM	ID-306.1	TYPE A	MEETING ORANGE
307	MEETING ROOM	ID-307.1	TYPE A	MEETING PURPLE
308	DIGITAL LAB	ID-308.1	TYPE A	DIGITAL LAB
309	MECHANICAL	ID-309.1	TYPE A	MECHANICAL
310	MECHANICAL	ID-310.1	TYPE A	MECHANICAL
311	STAFF LOUNGE	ID-311.1	TYPE A	STAFF
314	RR	ID-314.1	TYPE B	RESTROOM
315	RR	ID-315.1	TYPE B	RESTROOM
317	STORAGE	ID-317.1	TYPE A	STORAGE
B02x	ELEVATOR EQUIPMENT	ID-B02.1	TYPE A	STAFF
B03x	ELECTRICAL	ID-B03.1	TYPE A	ELECTRICAL
B04x	STORAGE	ID-B04.1	TYPE A	STORAGE
B05x	MAINTENANCE	ID-B05.1	TYPE A	STAFF
B07x	SUNKEN MECHANICAL ROOM	ID-B07.1	TYPE A	MECHANICAL
B10x	BOOK NOOK	ID-B10.1	TYPE A	BOOK NOOK
B10x	BOOK NOOK	ID-B10.2	TYPE A	BOOK NOOK (ADD ALTERNATE #3)
B11x	STORAGE	ID-B11.1	TYPE A	STORAGE
B11x	STORAGE	ID-B11.2	TYPE A	STORAGE (ADD ALTERNATE #3)
B13	I.T. ROOM	ID-B13.1	TYPE A	STAFF
S01	NORTH STAIR	ID-S01.1	TYPE C	EXIT STAIR
S02	SOUTH STAIR	ID-S02.1	TYPE C	EXIT STAIR
S11	NORTH STAIR	ID-S11.1	TYPE D	EXIT
S11	NORTH STAIR	ID-S11.2	TYPE C	EXIT STAIR
S12	SOUTH STAIR	ID-S12.1	TYPE C	EXIT STAIR
S12	SOUTH STAIR	ID-S12.2	TYPE D	EXIT
S21	NORTH STAIR	ID-S21.1	TYPE C	EXIT STAIR
S22	SOUTH STAIR	ID-S22.1	TYPE C	EXIT STAIR
S31	NORTH STAIR	ID-S31.1	TYPE C	EXIT STAIR
S32	SOUTH STAIR	ID-S32.1	TYPE C	EXIT STAIR

NOTE: SEE SHEET A601 FOR LOCATIONS AND TEXT FOR APPLIED VINYL LETTERING SIGNS

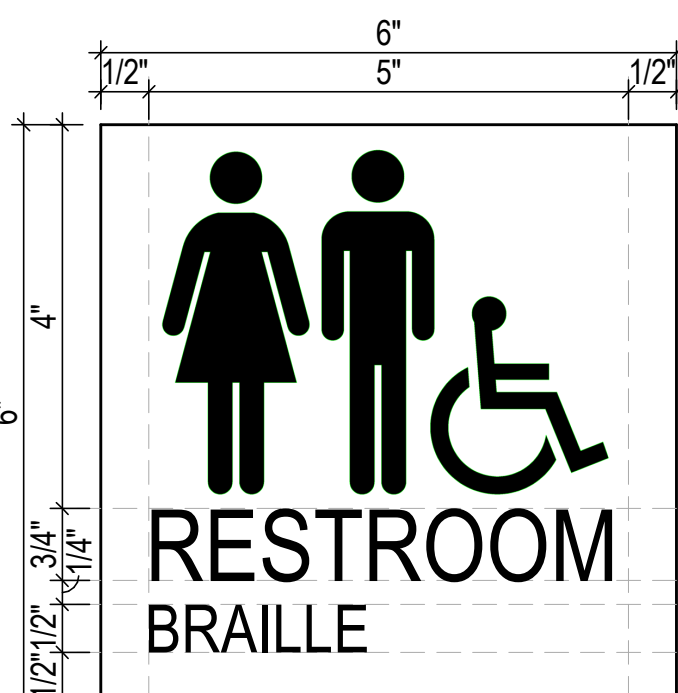
EQUIPMENT LEGEND

- AV-1: DIGITAL DISPLAY; PROVIDE WALL BLOCKING AS REQUIRED
- BB-1: BULLETIN BOARD, SALVAGED
- BB-2: BULLETIN BOARD, NEW
- CG-1: CORNER GUARD
- DH-1: DIRECTORY HOLDER
- FEC-1: STANDARD FIRE EXTINGUISHER, SURFACE MOUNTED
- FEC-2: TYPE K FIRE EXTINGUISHER, RECESSED
- PR-1: PICTURE RAIL
- RS-1: SINGLE MANUAL ROLLER SHADE
- RS-2: SINGLE MOTORIZED ROLLER SHADE
- RS-3: DUAL MOTORIZED ROLLER SHADE

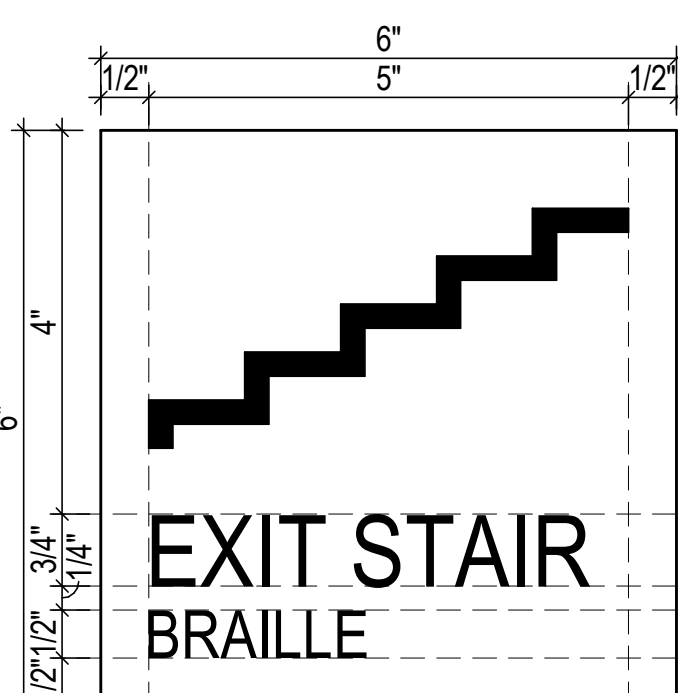
ALL SIGNAGE TO COMPLY WITH ICC A117.1



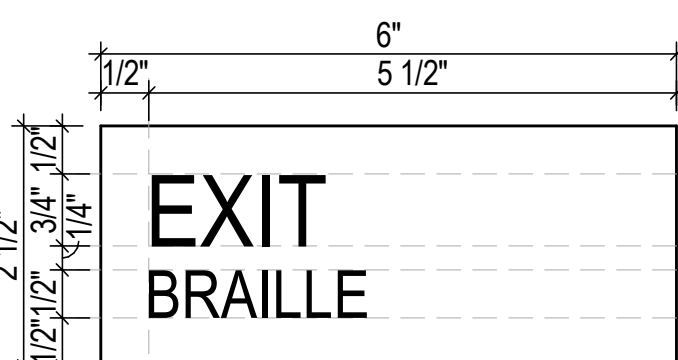
SIGNAGE TYPE A



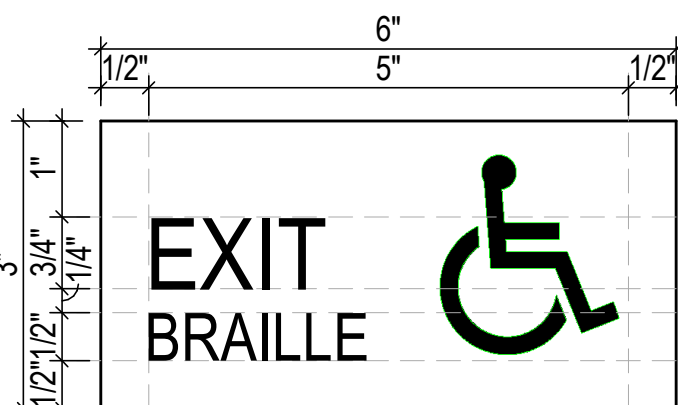
SIGNAGE TYPE B



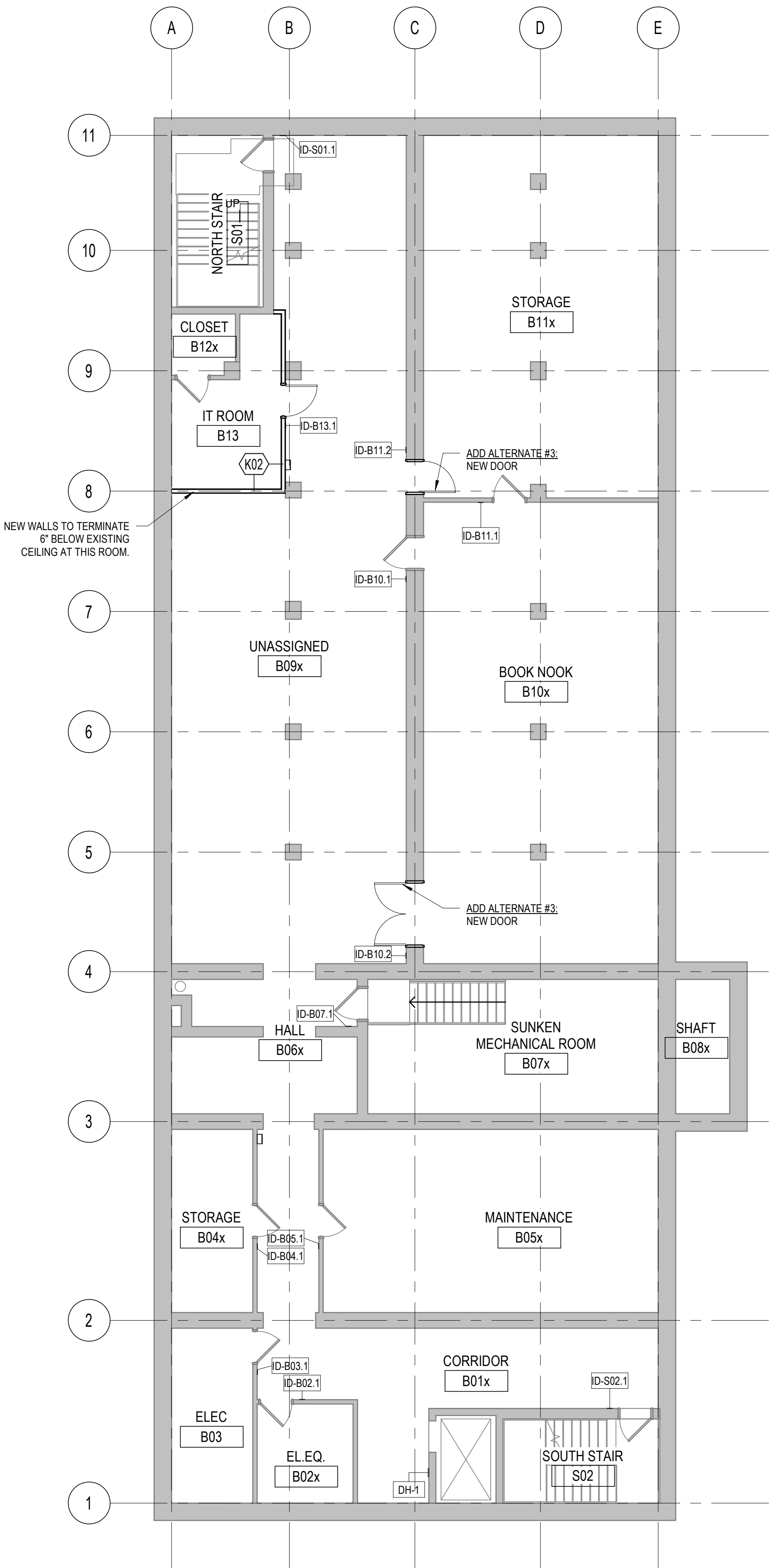
SIGNAGE TYPE C



SIGNAGE TYPE D



SIGNAGE TYPE E



1 BASEMENT EQUIPMENT & SIGNAGE PLAN
SCALE: 1/8" = 1'-0"

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SIGNAGE SCHEDULE & BASEMENT SIGNAGE & EQUIPMENT PLAN

EQUIPMENT LEGEND

- AV-1: DIGITAL DISPLAY; PROVIDE WALL BLOCKING AS REQUIRED
- BB-1: BULLETIN BOARD, SALVAGED
- BB-2: BULLETIN BOARD, NEW
- CG-1: CORNER GUARD
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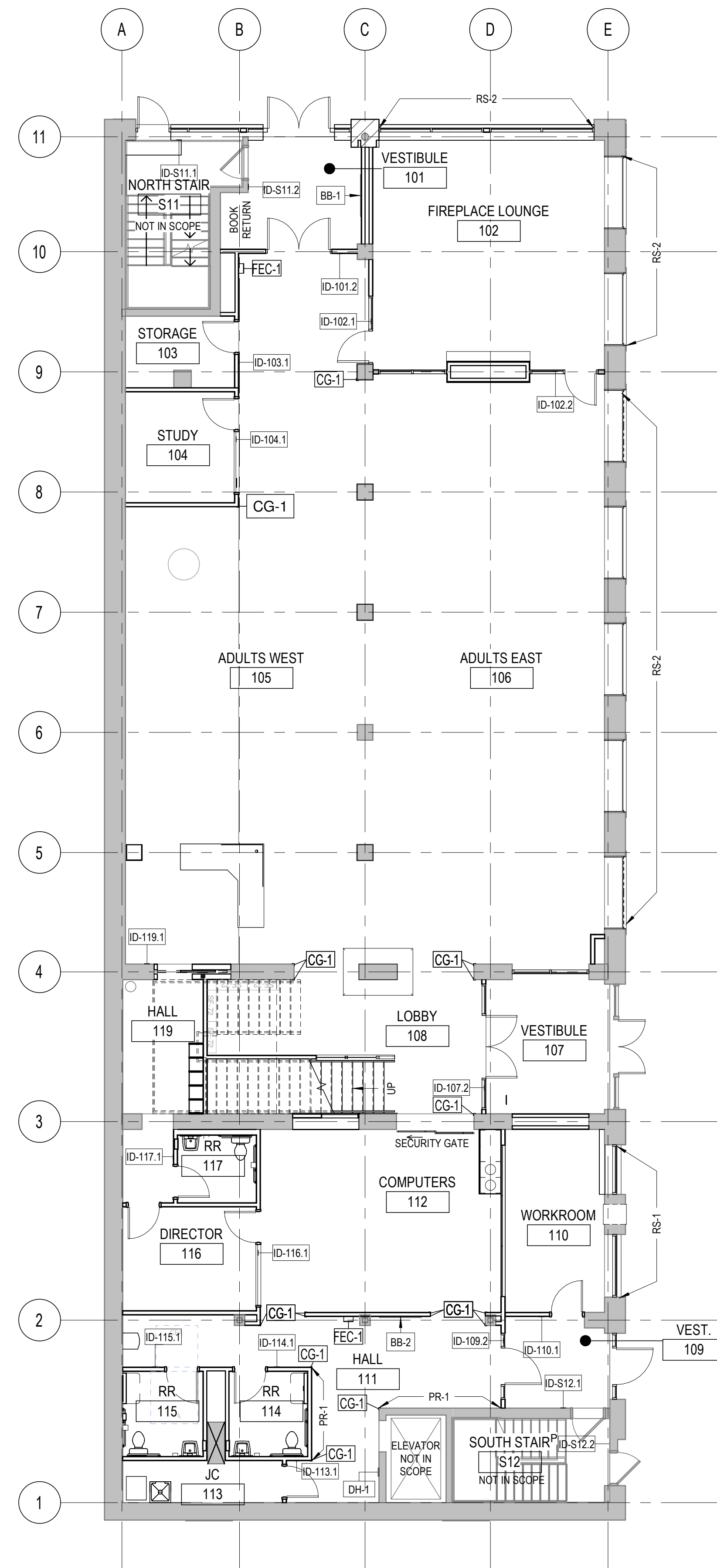
NO. DESCRIPTION DATE

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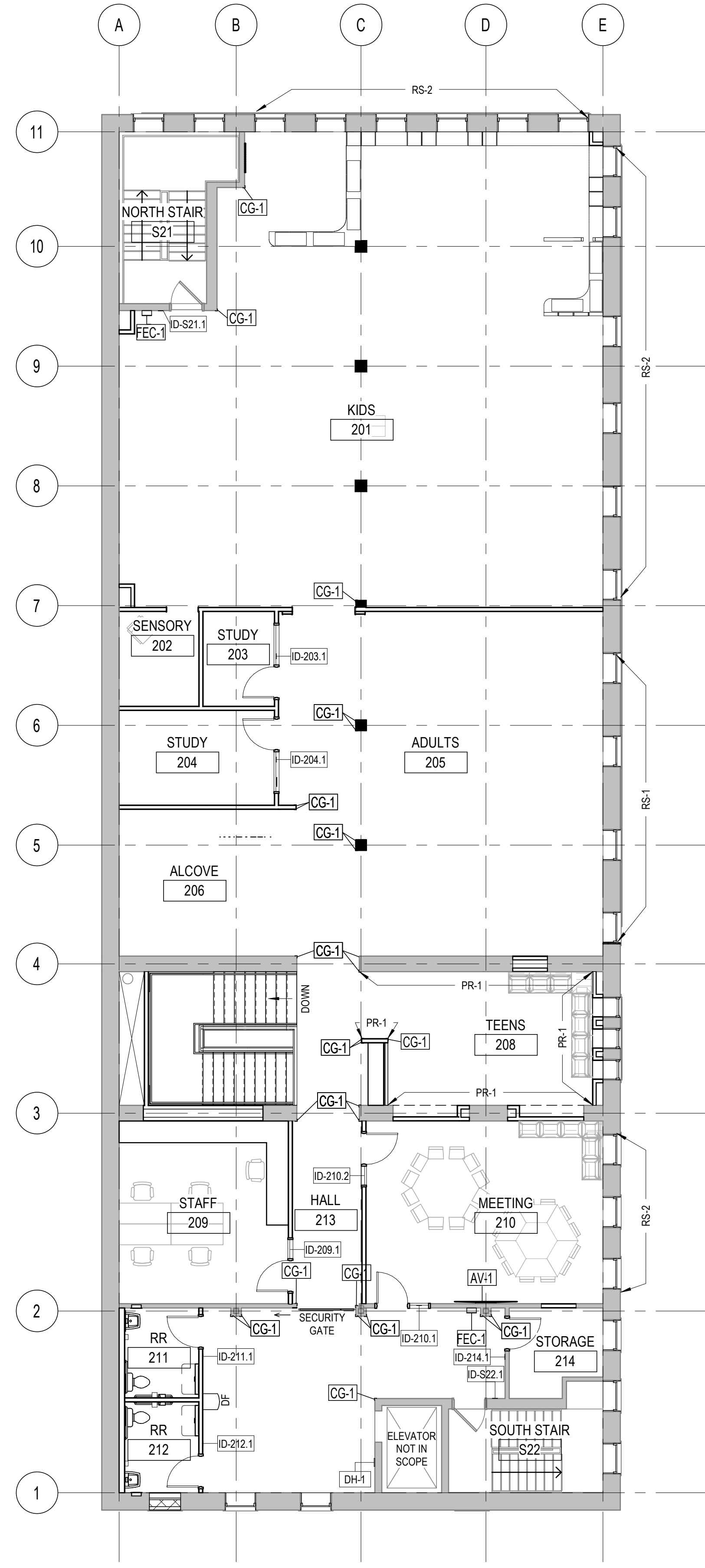
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**1ST-3RD FLOOR
SIGNAGE &
EQUIPMENT
PLANS**

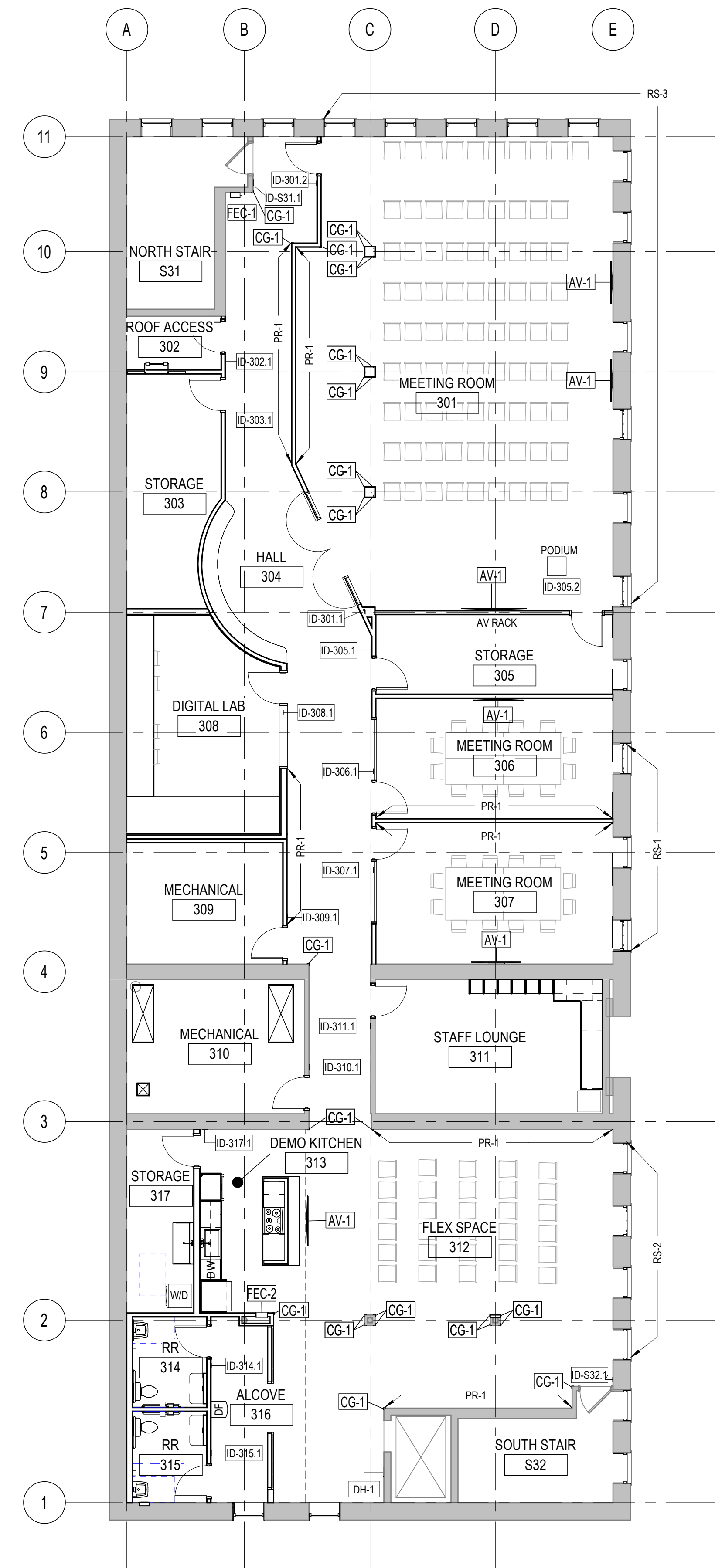
A711



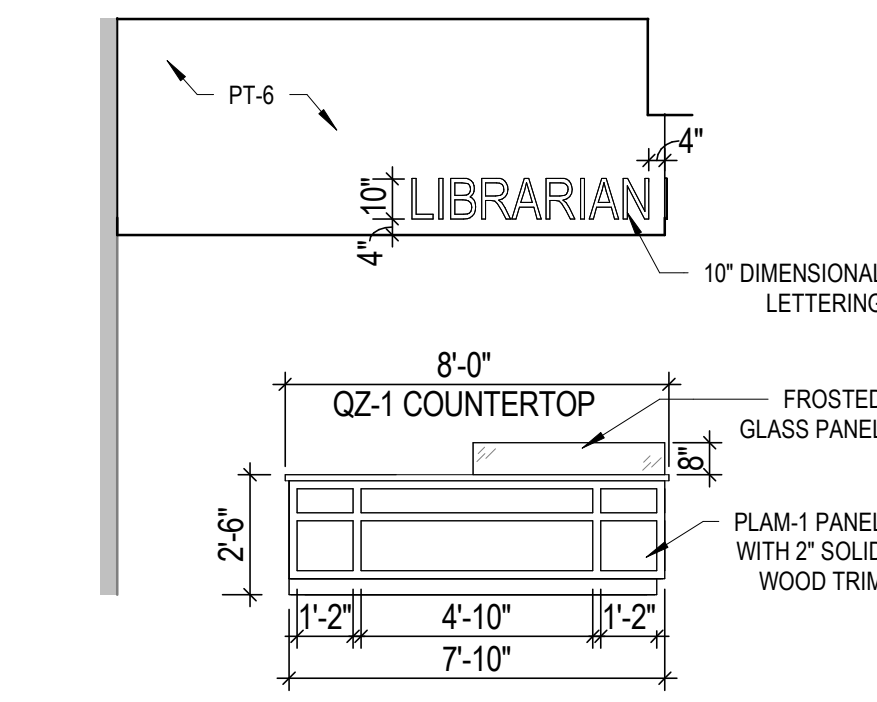
1 1ST FLOOR EQUIPMENT & SIGNAGE PLAN
SCALE: 1/8" = 1'-0"



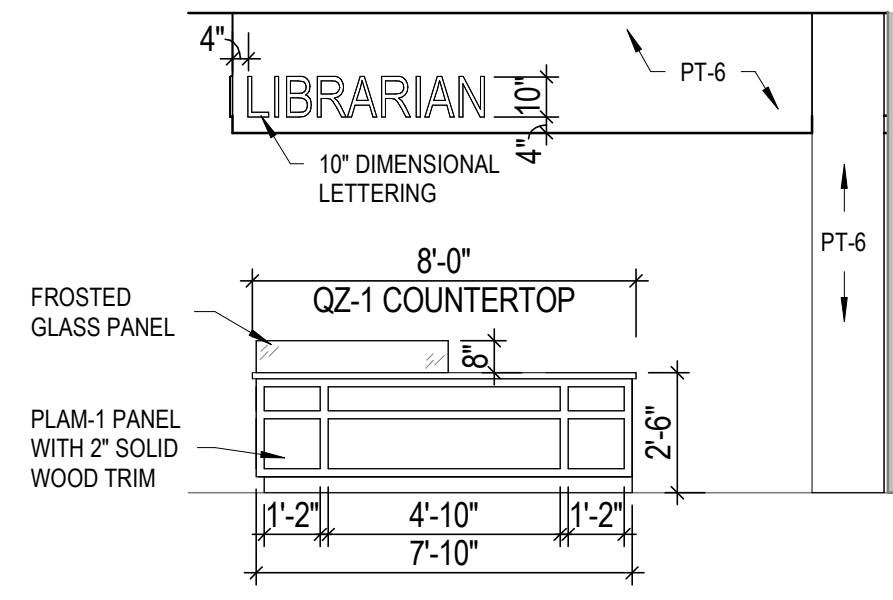
2 2ND FLOOR EQUIPMENT & SIGNAGE PLAN
SCALE: 1/8" = 1'-0"



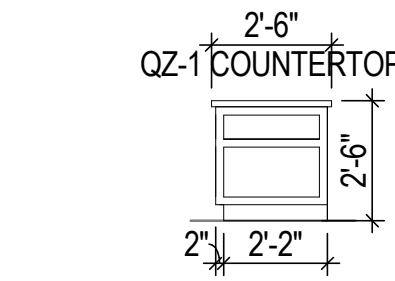
3 3RD FLOOR EQUIPMENT & SIGNAGE PLAN
SCALE: 1/8" = 1'-0"



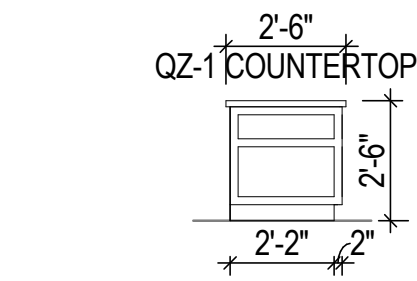
1 CIRCULATION DESK - WEST
SCALE: 1/4" = 1'-0"



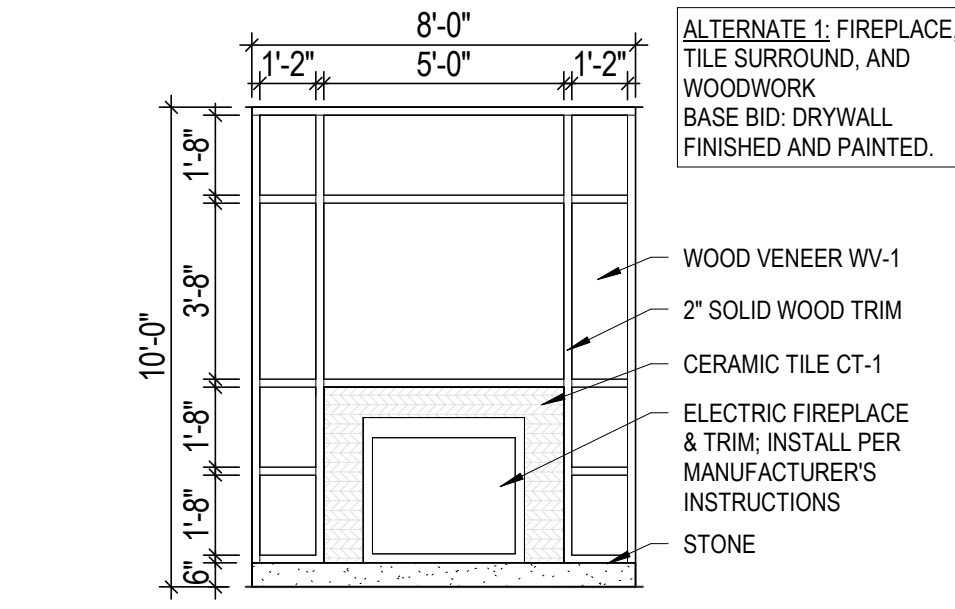
2 CIRCULATION DESK - SOUTH
SCALE: 1/4" = 1'-0"



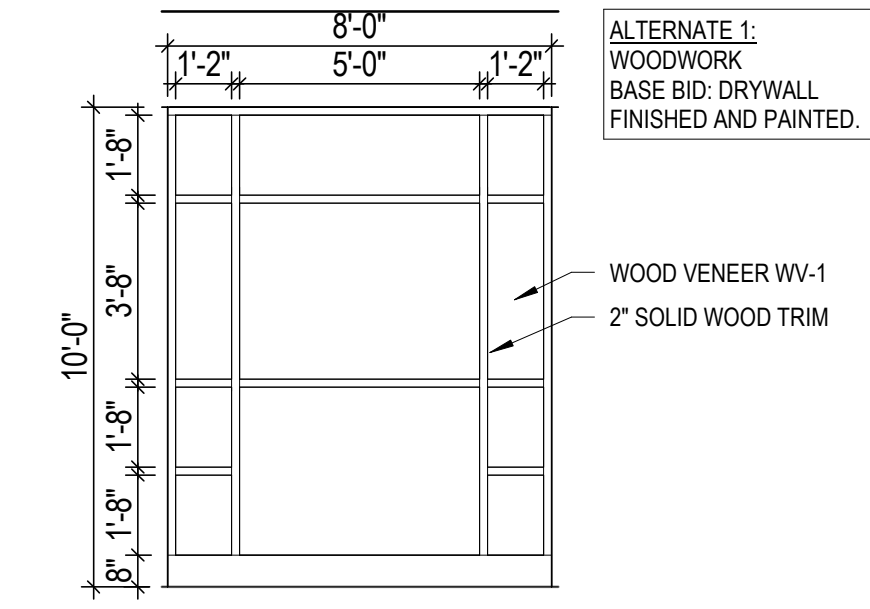
3 CIRC. DESK - EAST
SCALE: 1/4" = 1'-0"



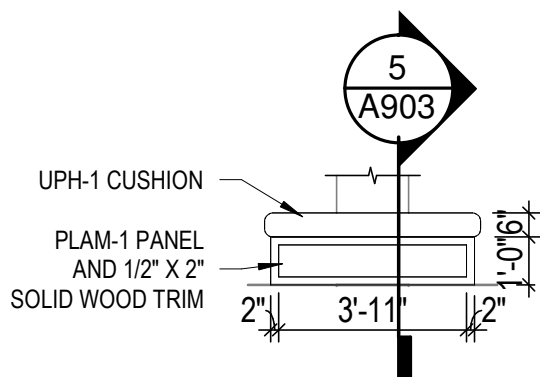
4 CIRC. DESK - NORTH
SCALE: 1/4" = 1'-0"



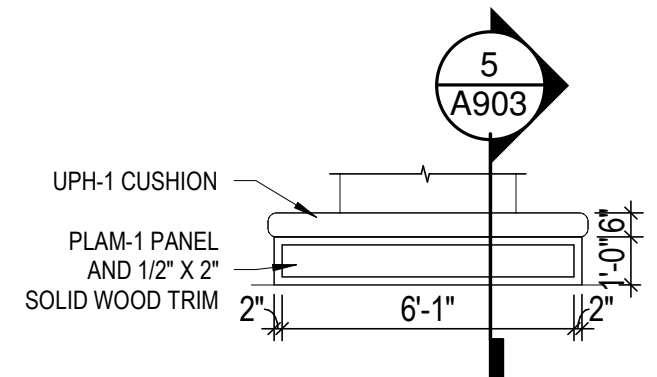
5 102 READING ROOM - FIREPLACE
SCALE: 1/4" = 1'-0"



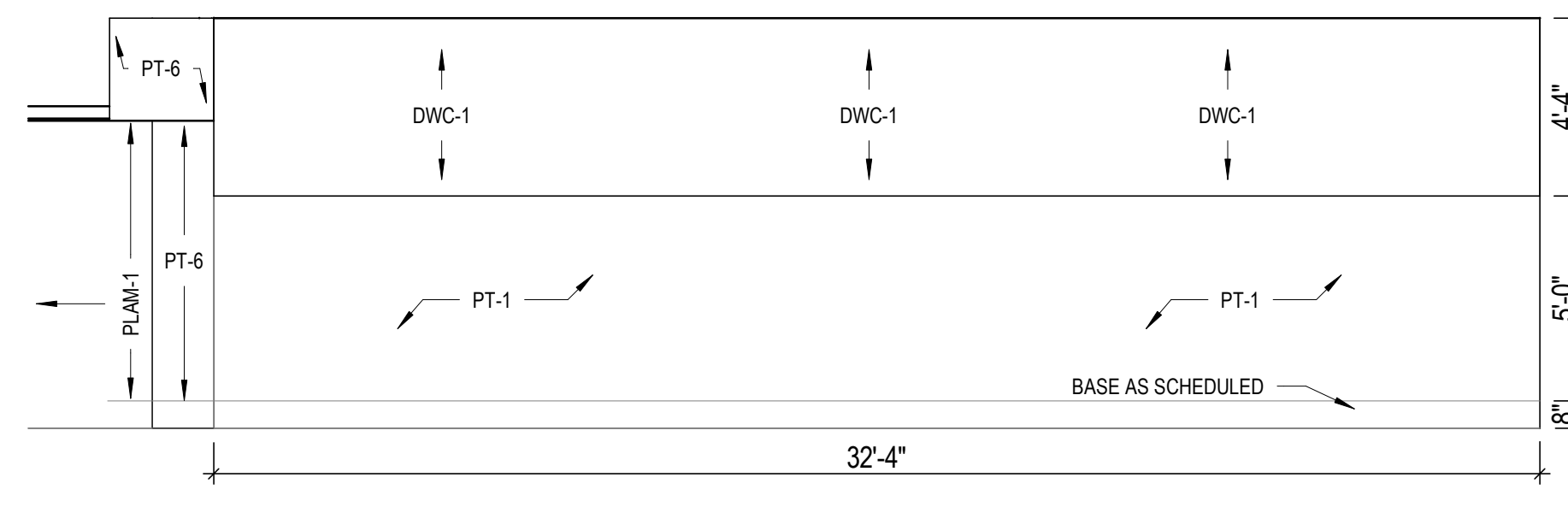
6 106 ADULT - FIREPLACE
SCALE: 1/4" = 1'-0"



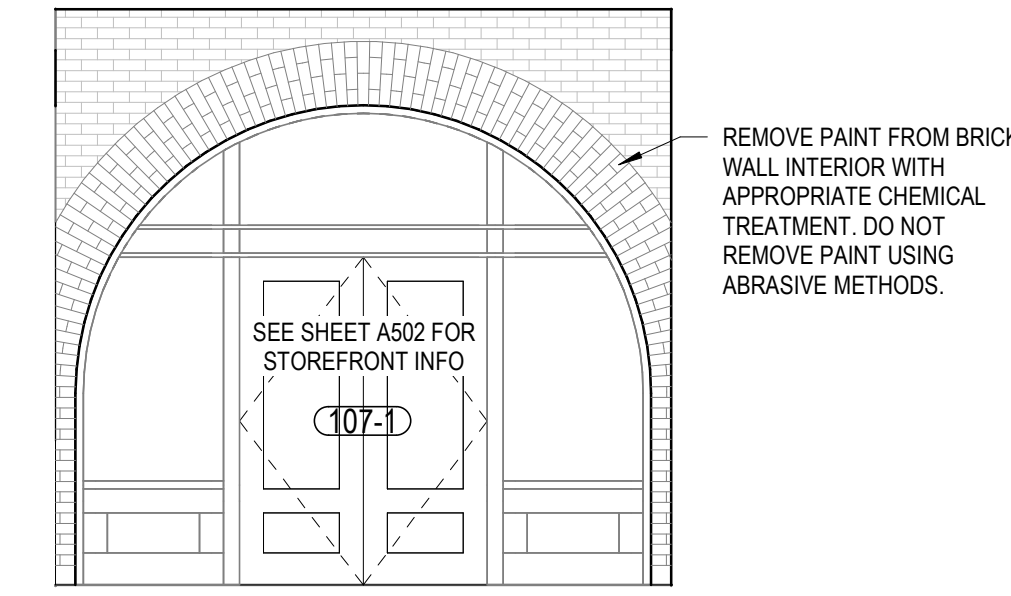
7 LOBBY 108 - BENCH
SCALE: 1/4" = 1'-0"



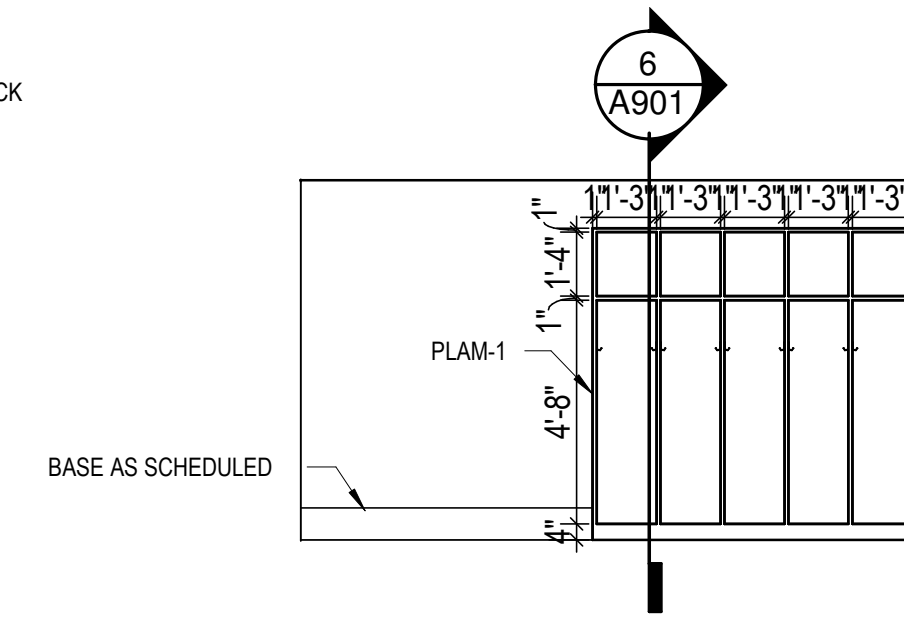
8 LOBBY 108 - BENCH
SCALE: 1/4" = 1'-0"



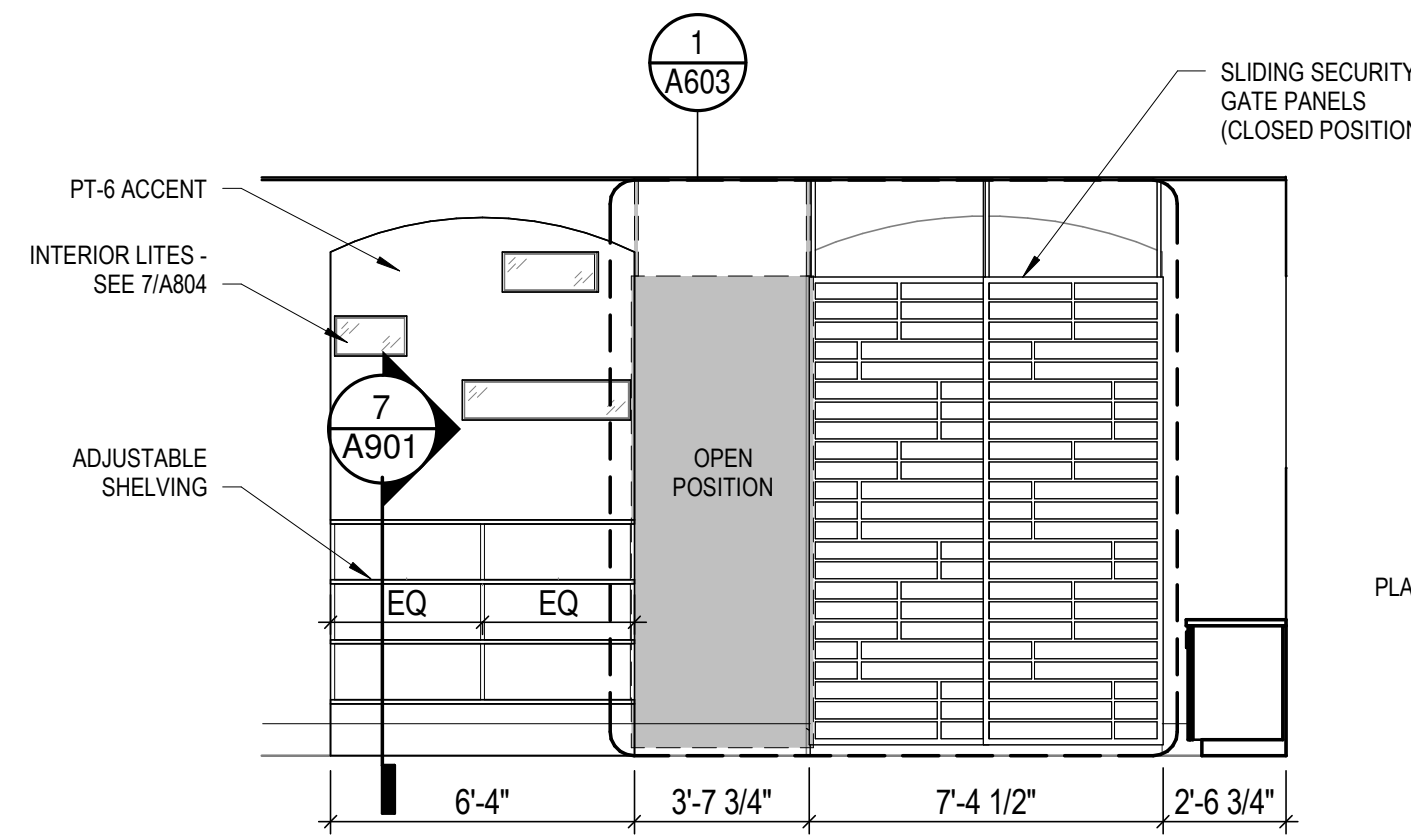
9 ADULTS 105 - WEST
SCALE: 1/4" = 1'-0"



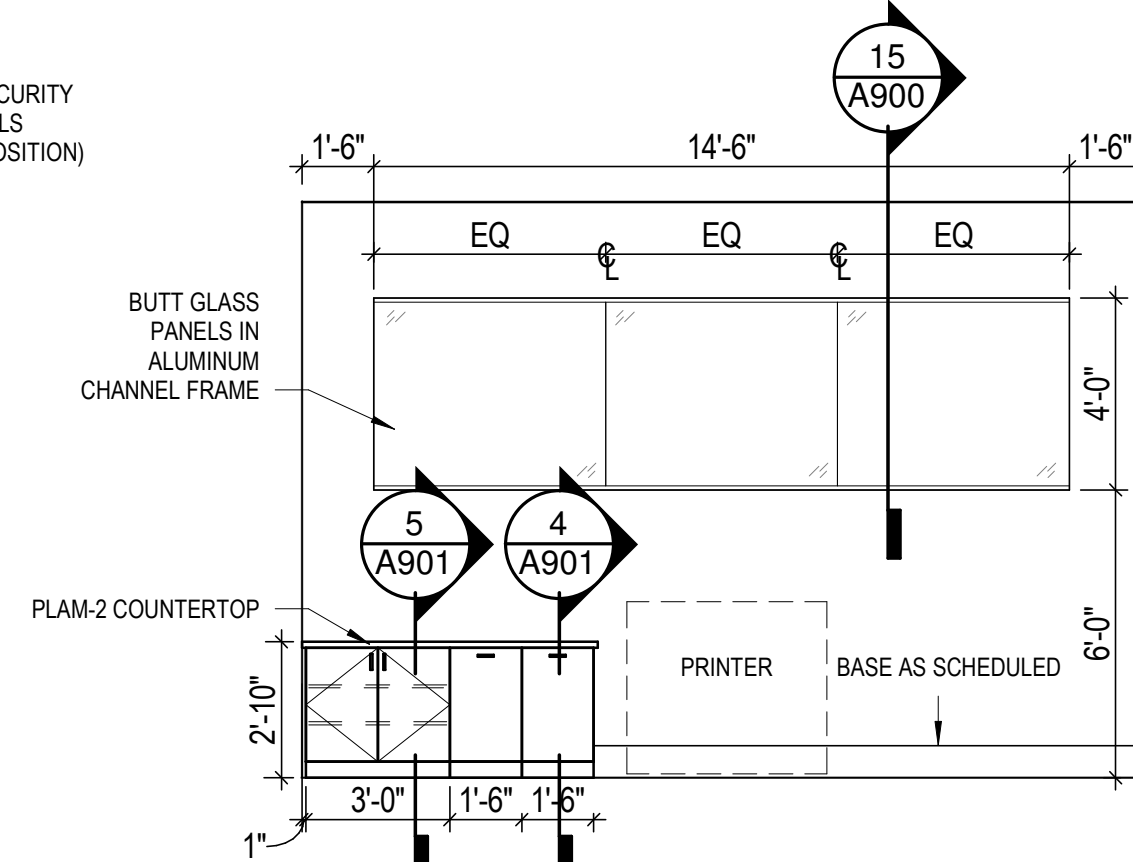
10 VESTIBULE 107 - EAST
SCALE: 1/4" = 1'-0"



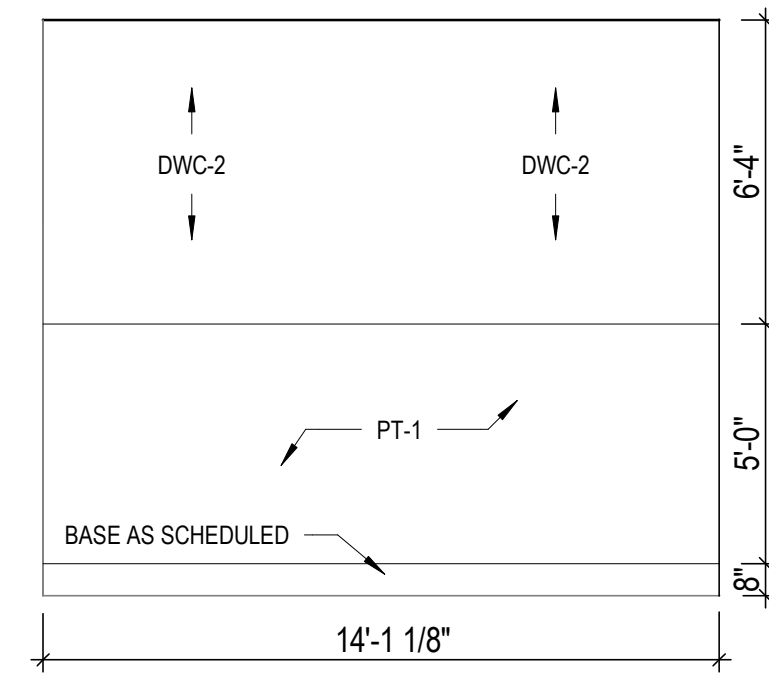
11 HALL 119 - EAST
SCALE: 1/4" = 1'-0"



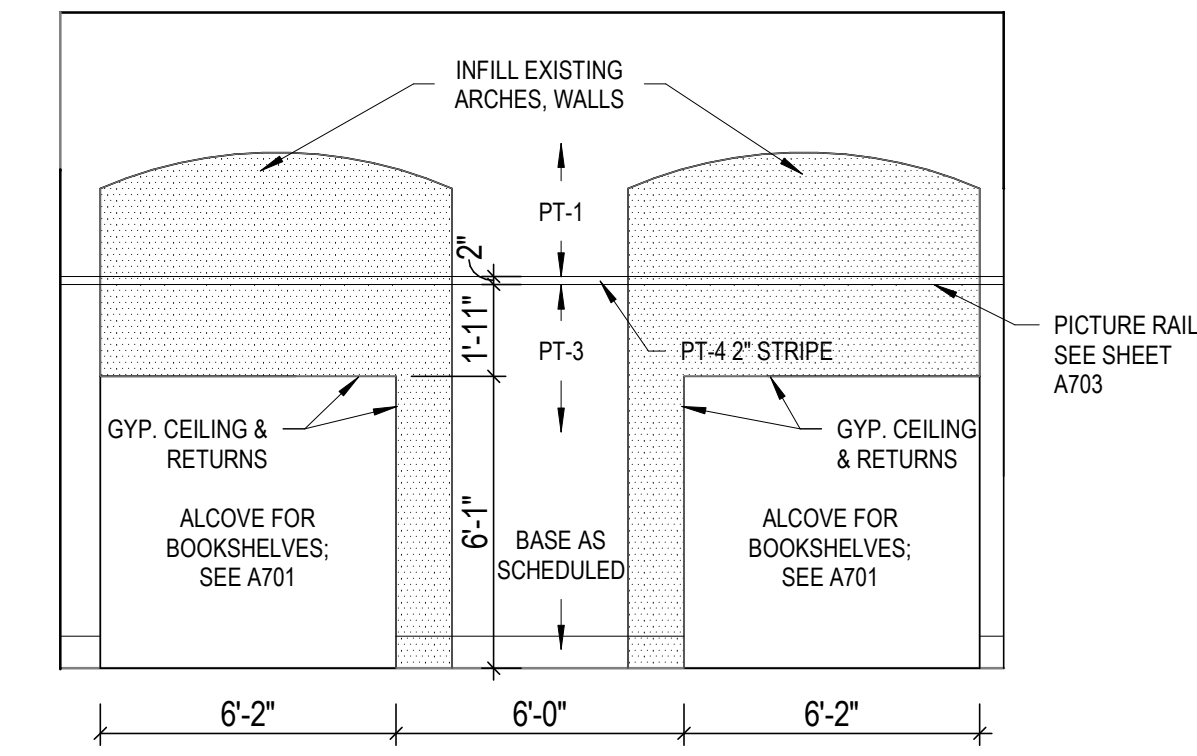
12 COMPUTER ROOM 112 - NORTH
SCALE: 1/4" = 1'-0"



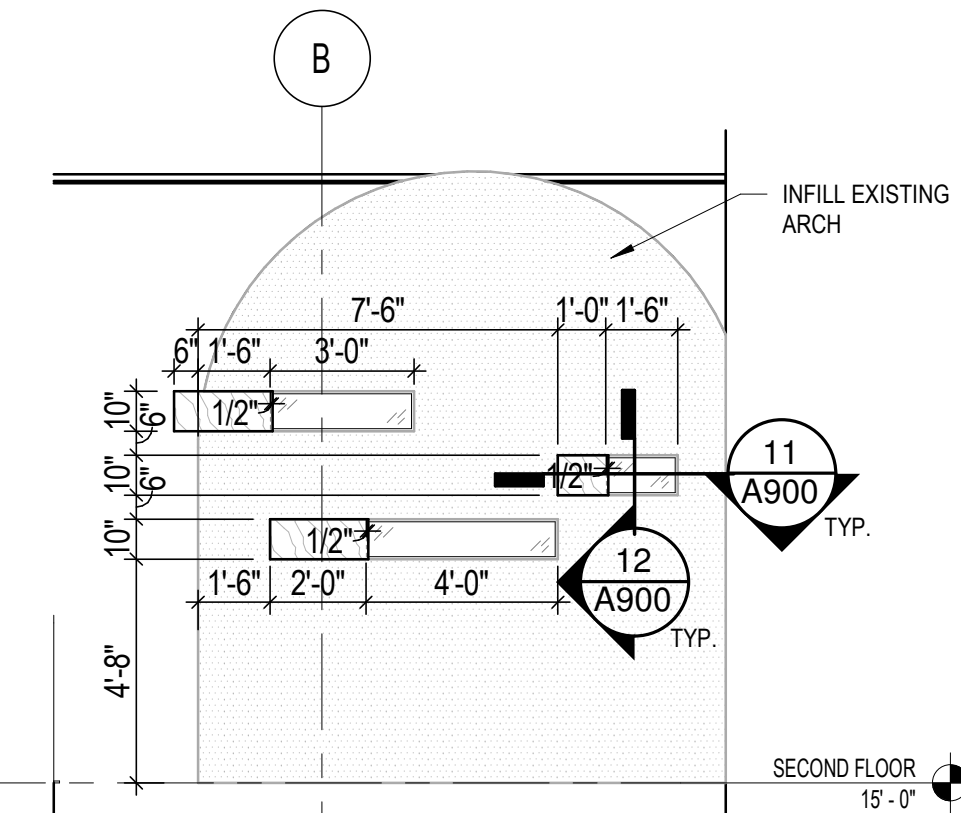
13 COMPUTER ROOM 112 - EAST
SCALE: 1/4" = 1'-0"



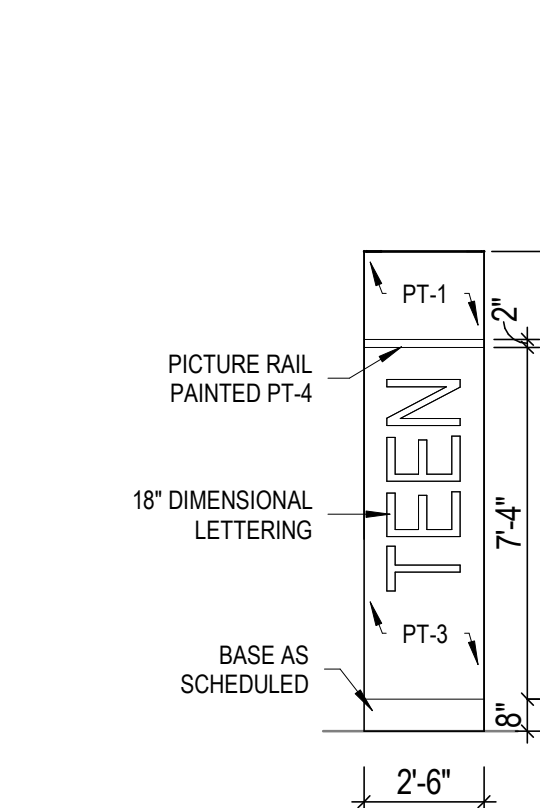
14 ADULTS 206 - ALCOVE
SCALE: 1/4" = 1'-0"



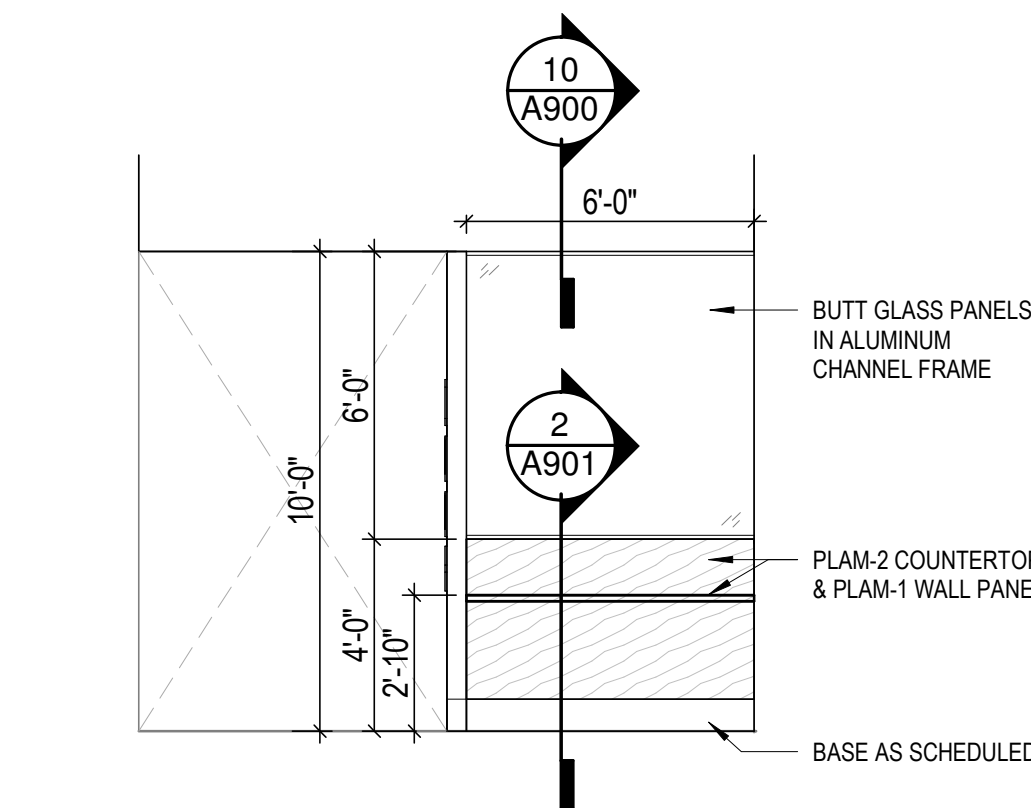
15 TEENS 208 - SOUTH
SCALE: 1/4" = 1'-0"



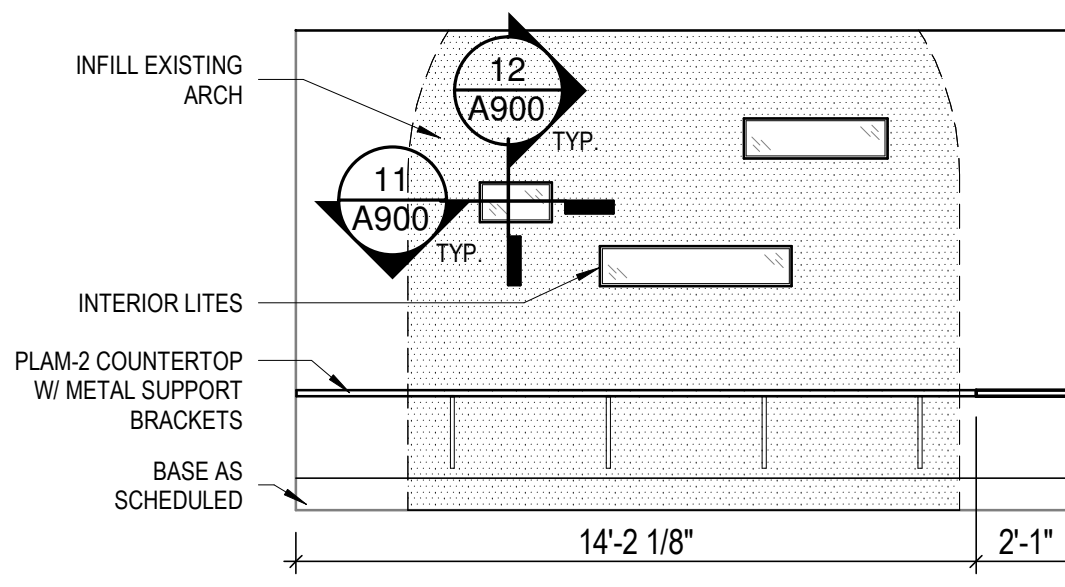
20 MAIN STAIR - ELEVATION
SCALE: 1/4" = 1'-0"



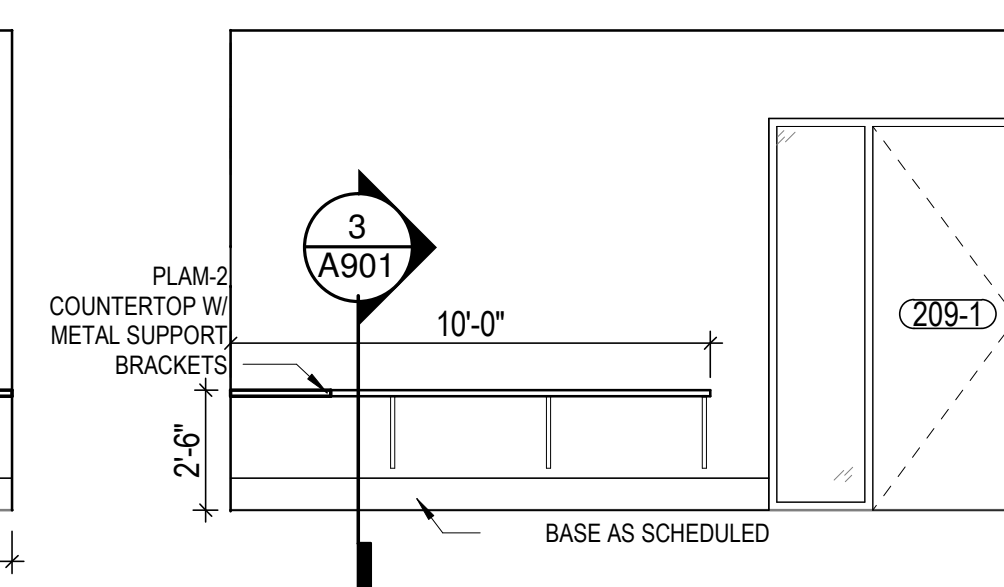
16 TEENS 208 - ENTRY
SCALE: 1/4" = 1'-0"



17 HALL 213 - EAST
SCALE: 1/4" = 1'-0"



18 STAFF 209 - NORTH
SCALE: 1/4" = 1'-0"



19 STAFF 209 - EAST
SCALE: 1/4" = 1'-0"

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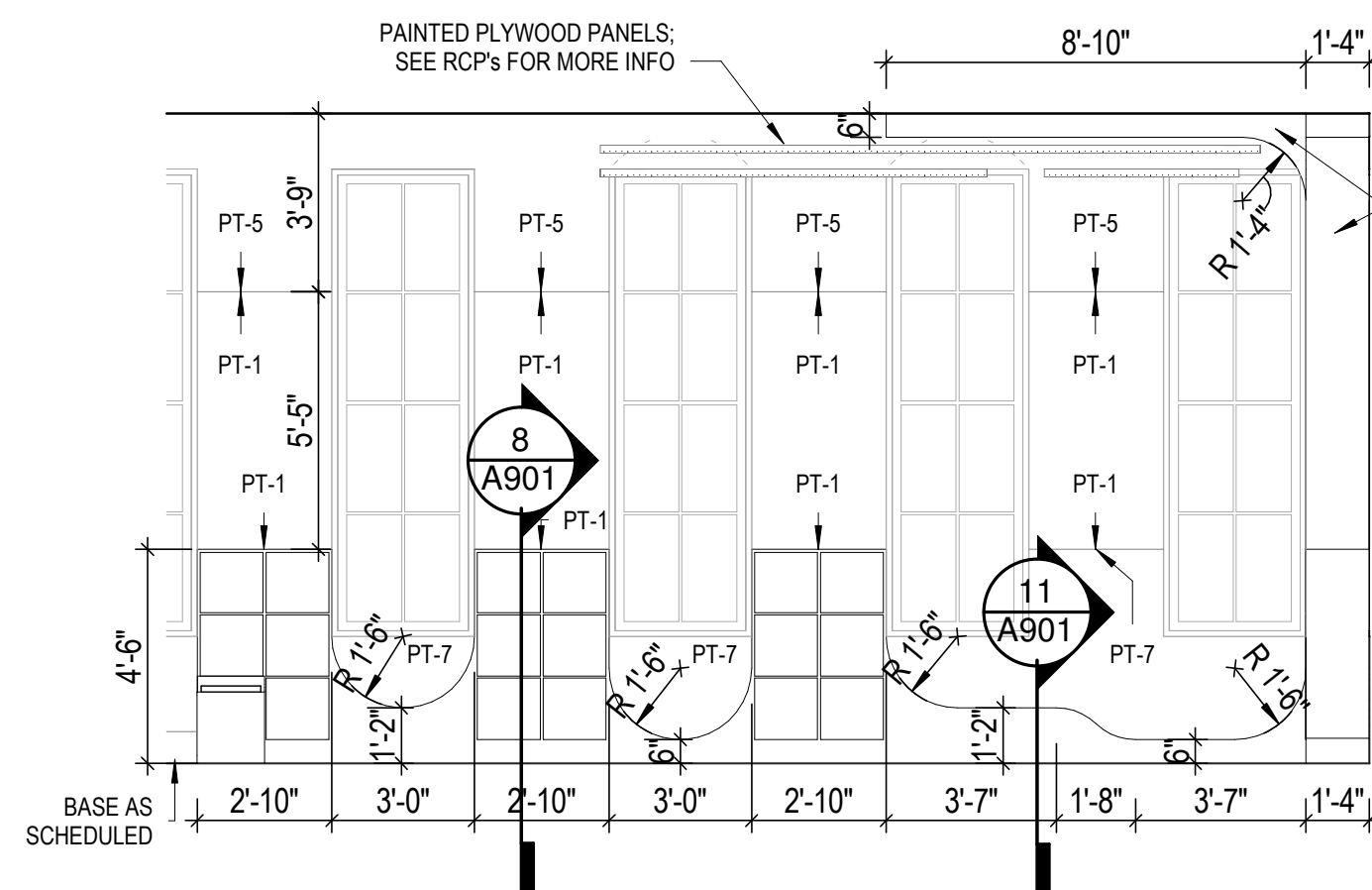
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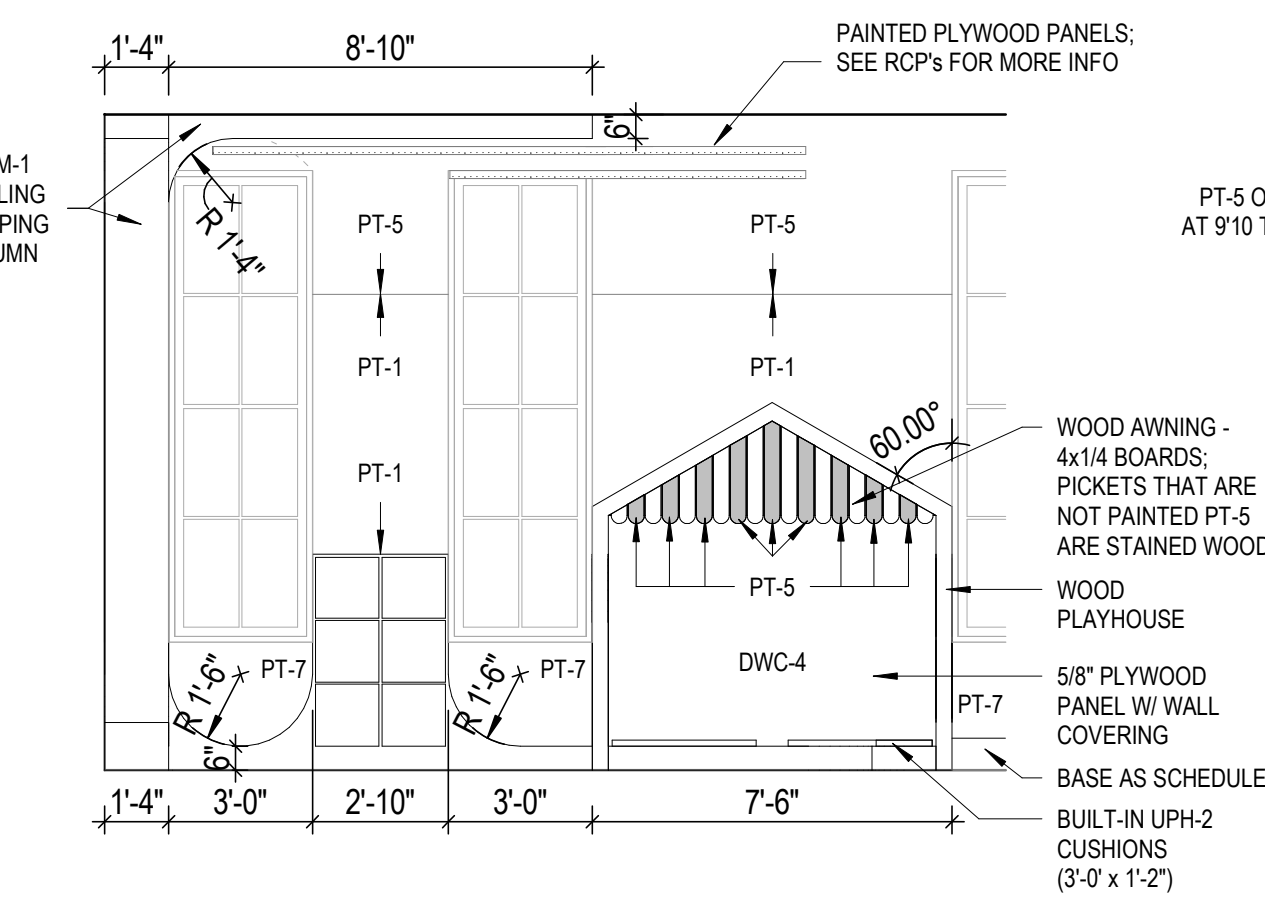
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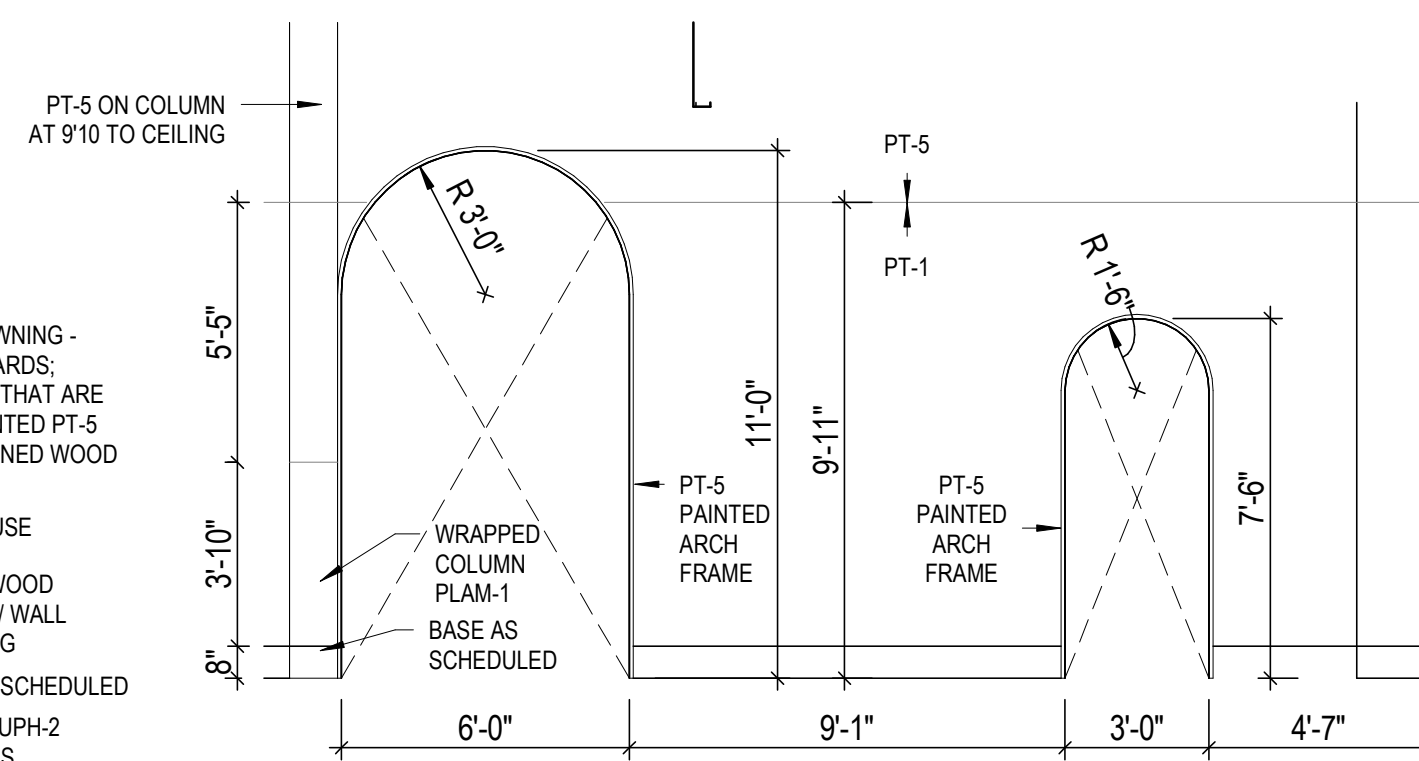
INTERIOR ELEVATIONS



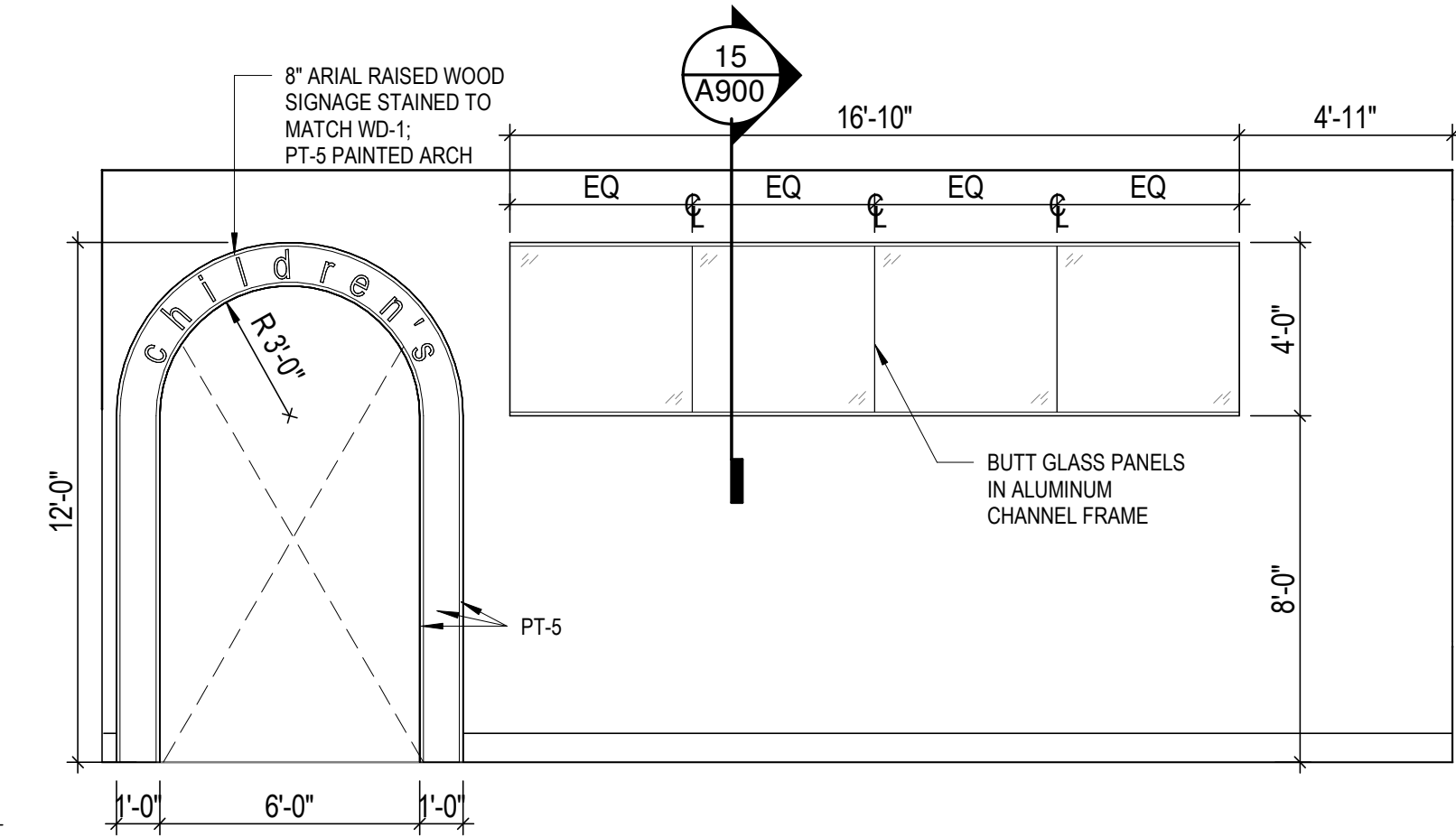
1 KIDS 201 - CUBBY NORTH
SCALE: 1/4" = 1'-0"



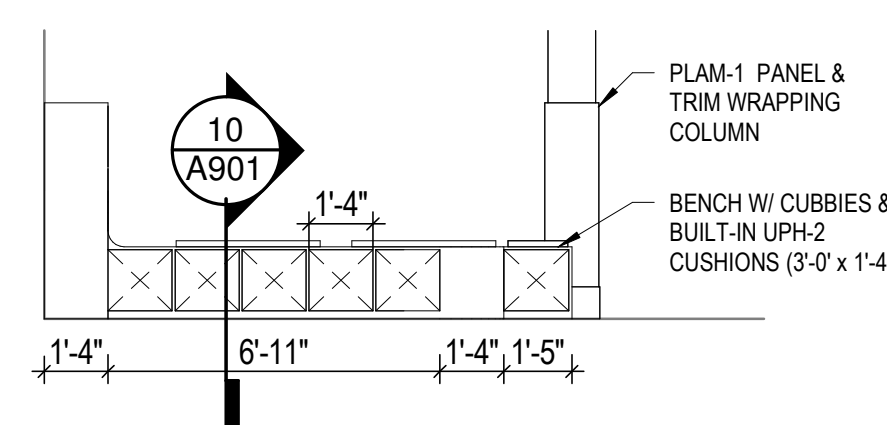
2 KIDS 201 - CUBBY EAST
SCALE: 1/4" = 1'-0"



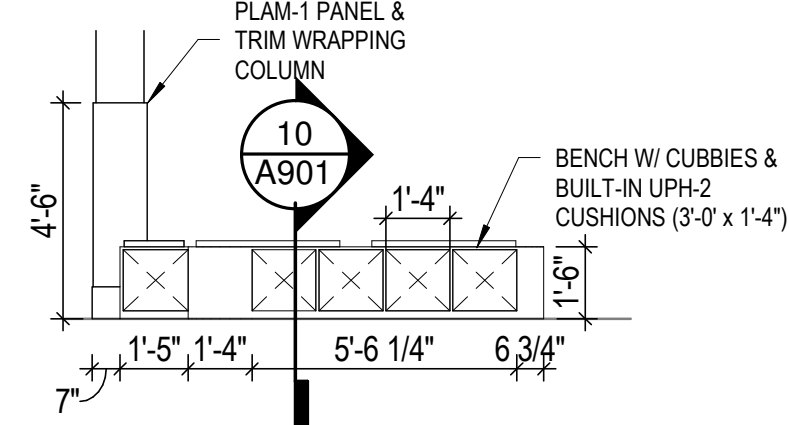
3 KIDS 201 - SOUTH
SCALE: 1/4" = 1'-0"



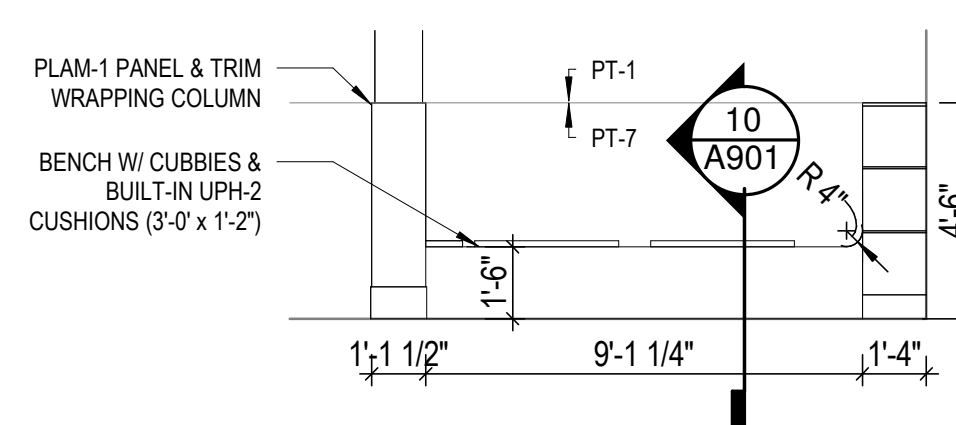
4 ADULTS 205 - NORTH
SCALE: 1/4" = 1'-0"



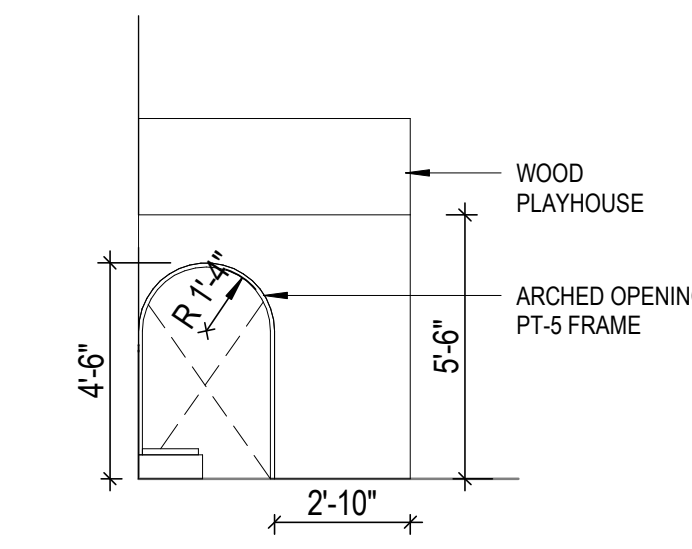
5 KIDS 201 - BABY GARDEN EAST
SCALE: 1/4" = 1'-0"



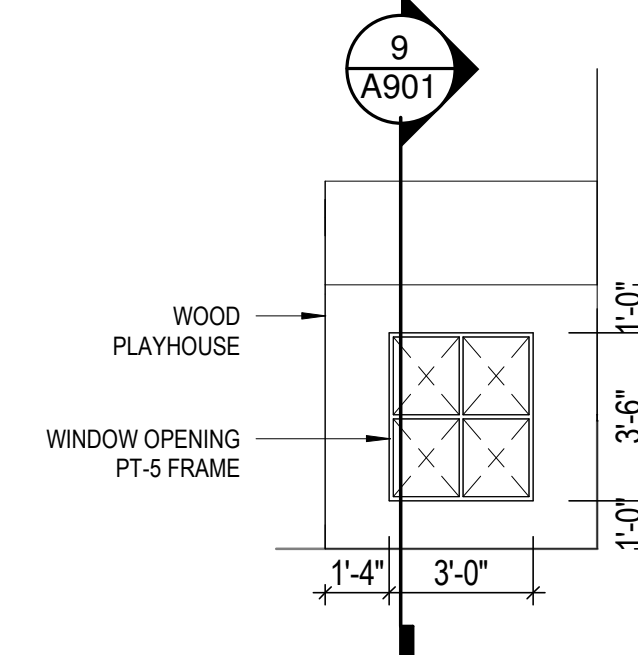
6 KIDS 201 - BABY GARDEN SOUTH
SCALE: 1/4" = 1'-0"



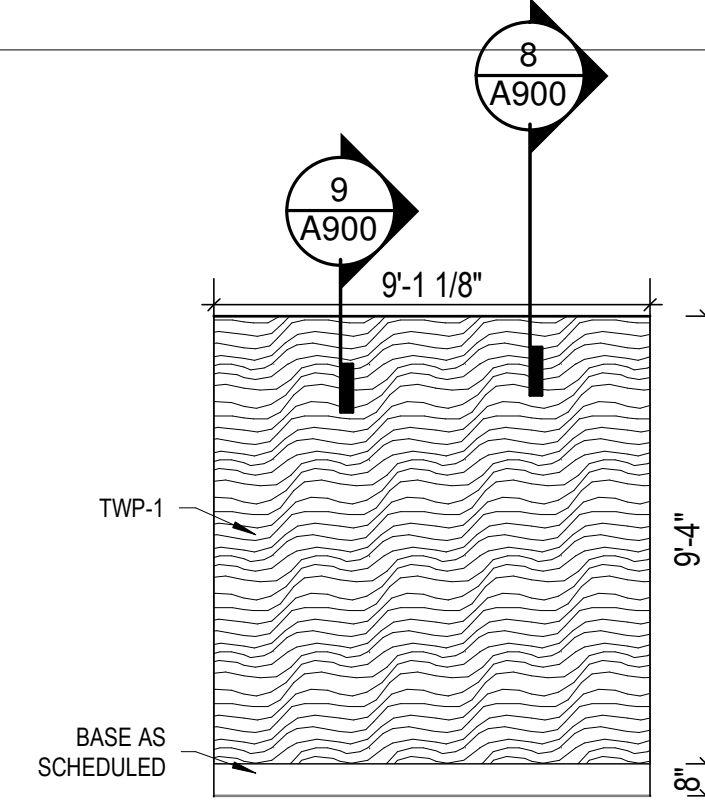
7 KIDS 201 - CUBBY WEST
SCALE: 1/4" = 1'-0"



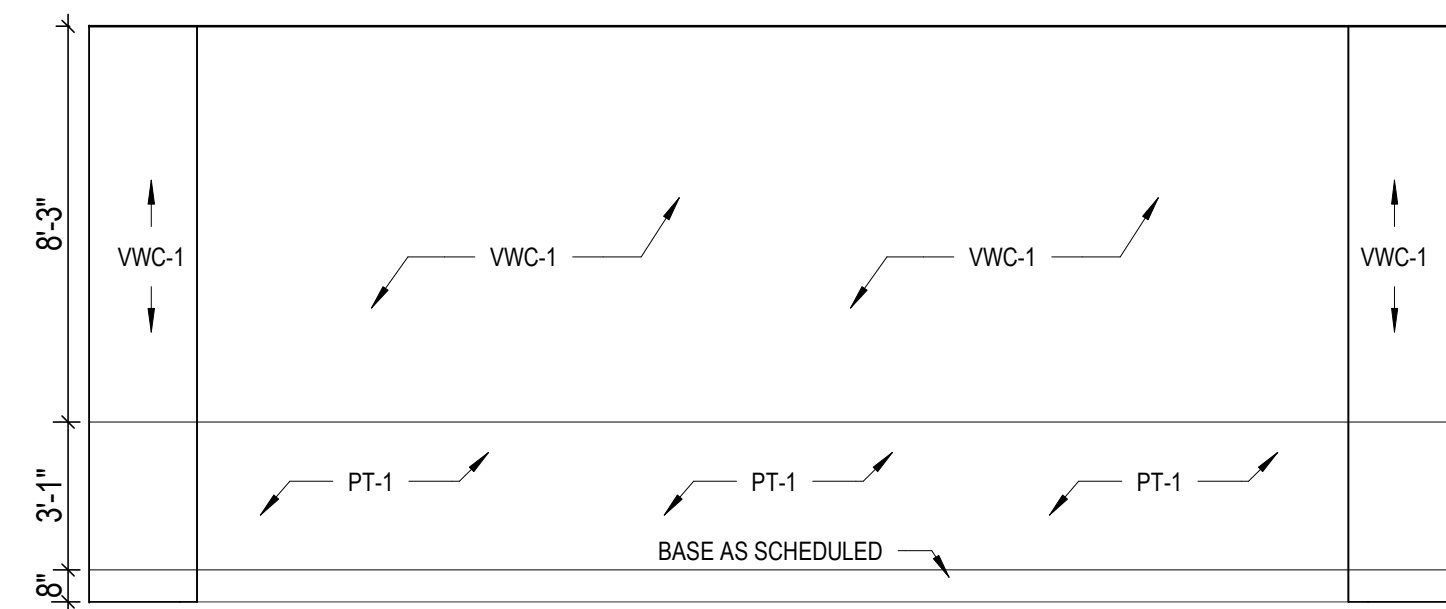
8 KIDS 201 - HOUSE SOUTH
SCALE: 1/4" = 1'-0"



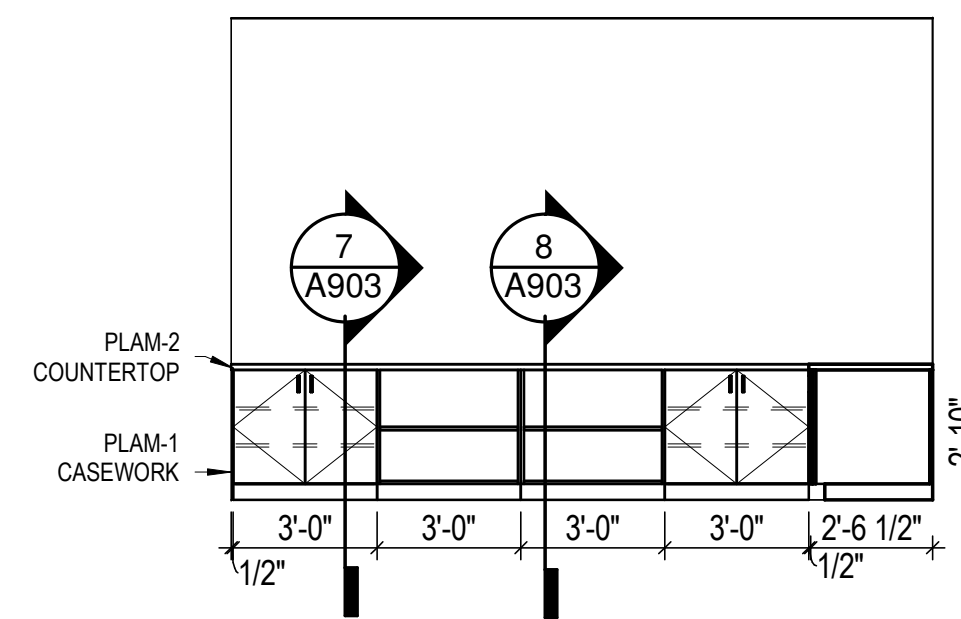
9 KIDS 201 - HOUSE NORTH
SCALE: 1/4" = 1'-0"



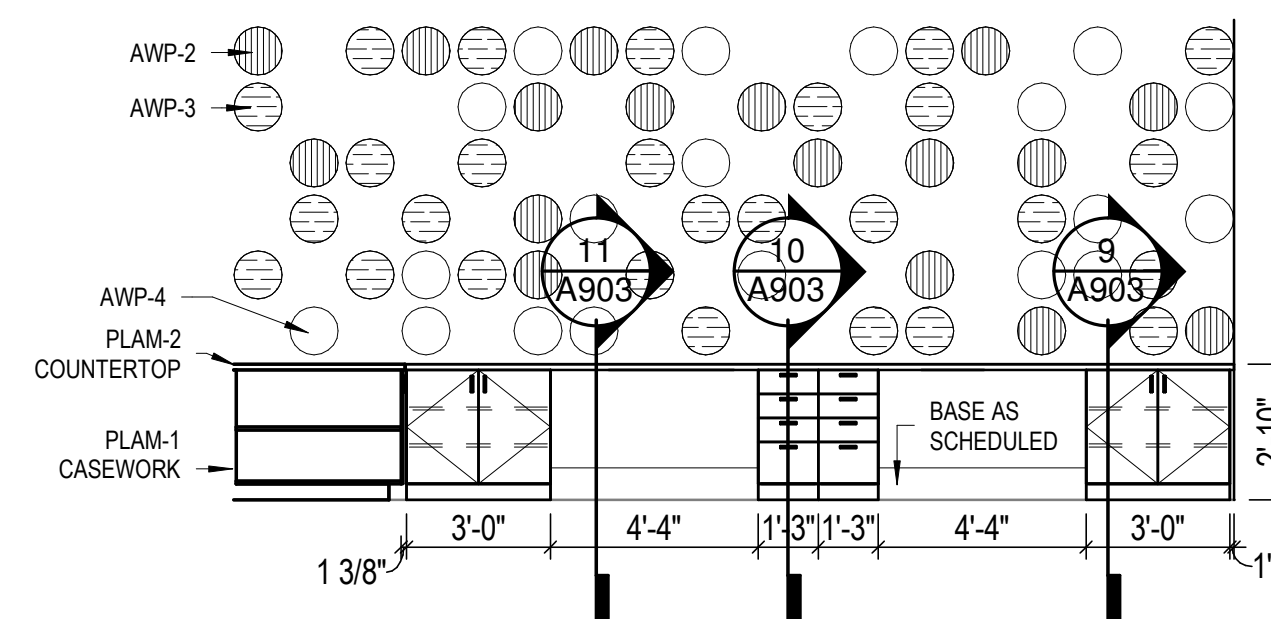
10 SENSORY ROOM 202
SCALE: 1/4" = 1'-0"



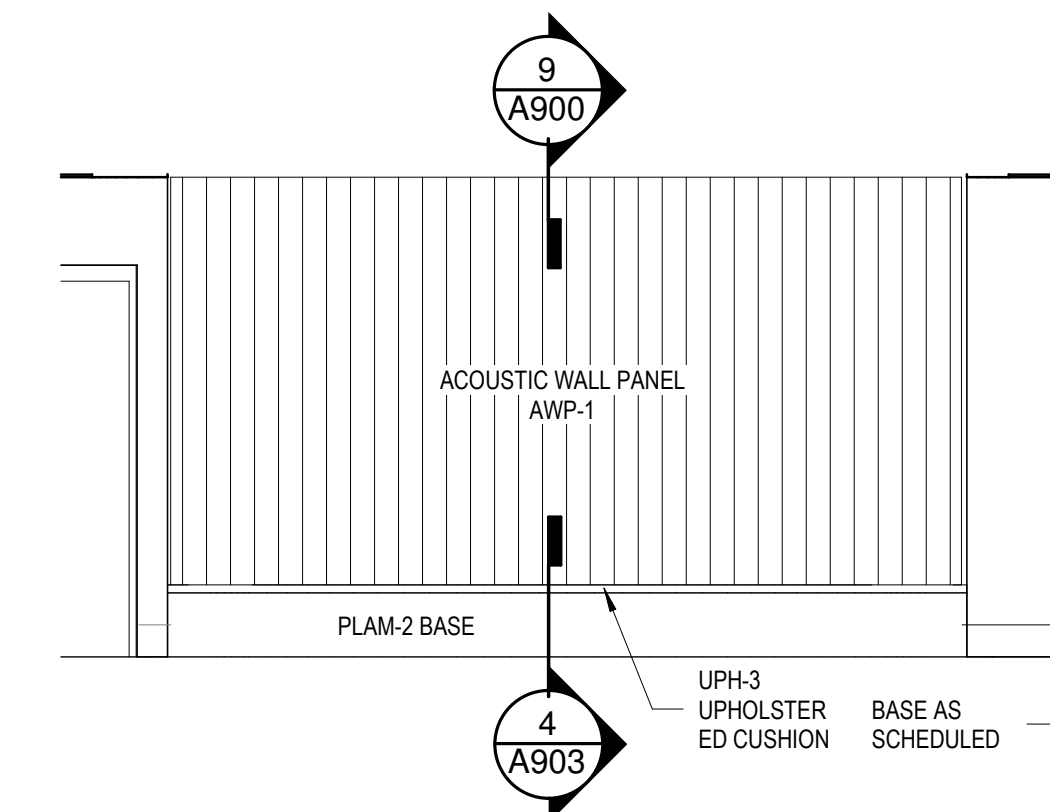
11 KIDS 201 - WEST WALLCOVERING
SCALE: 1/4" = 1'-0"



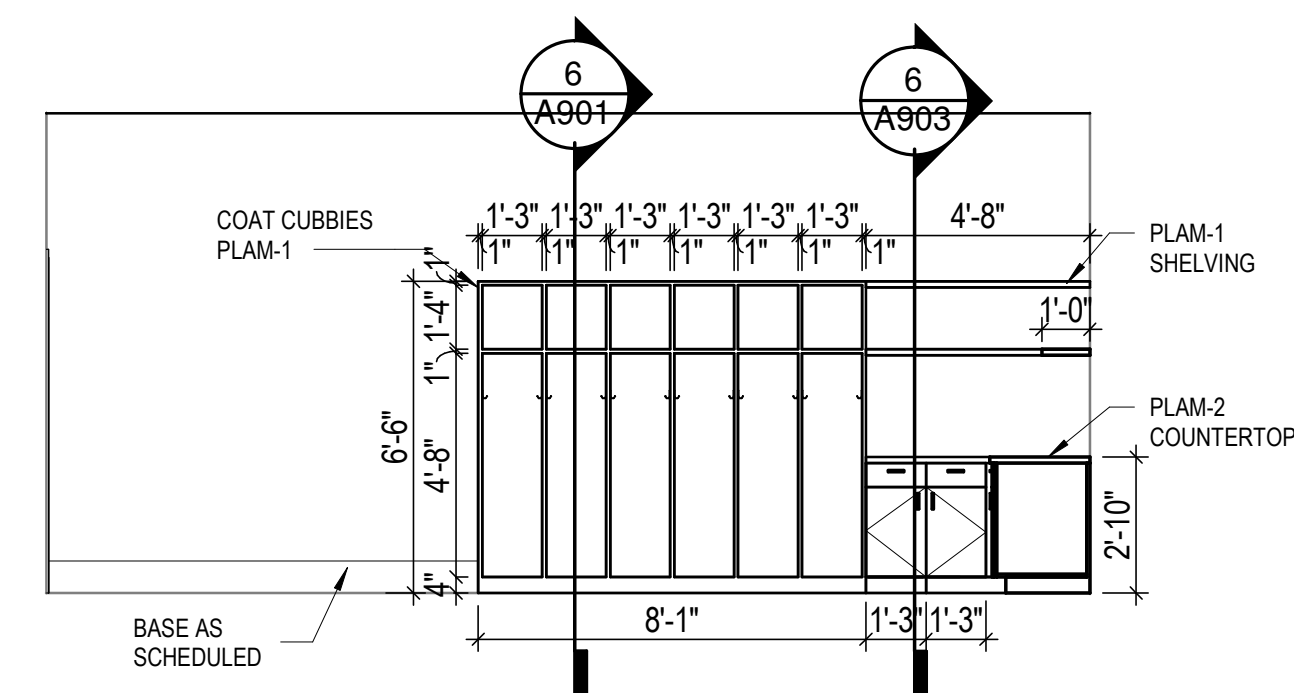
12 DIGITAL LAB 308 - SOUTH
SCALE: 1/4" = 1'-0"



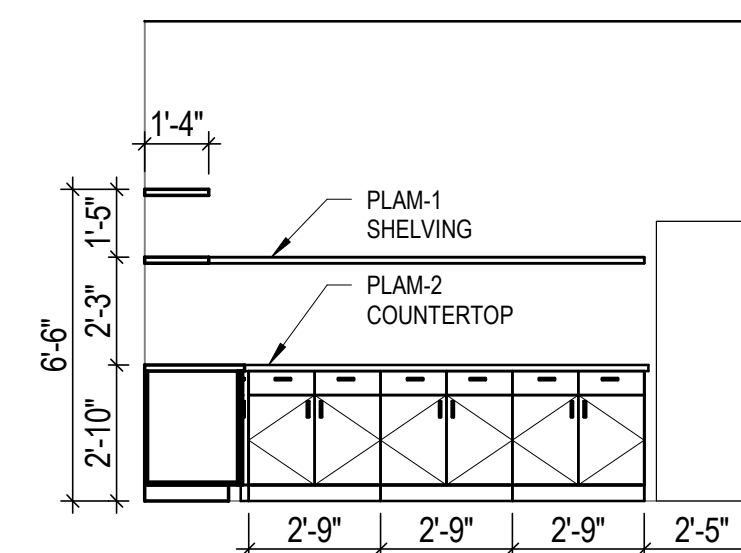
13 DIGITAL LAB 308 - WEST
SCALE: 1/4" = 1'-0"



14 HALL 304 WEST
SCALE: 1/4" = 1'-0"



15 STAFF LOUNGE 311 - NORTH
SCALE: 1/4" = 1'-0"



16 STAFF LOUNGE 311 - EAST
SCALE: 1/4" = 1'-0"

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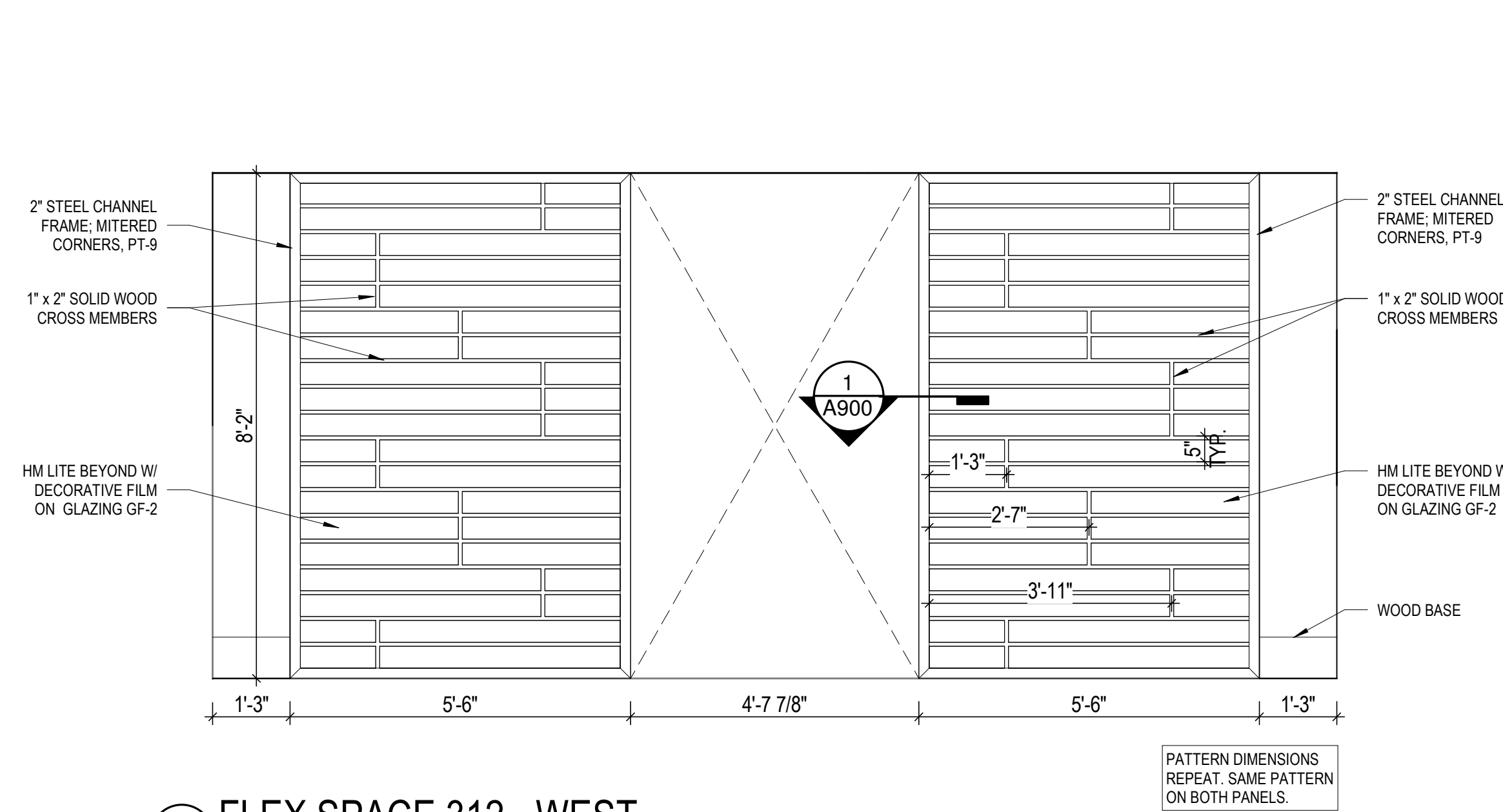
NO. DESCRIPTION

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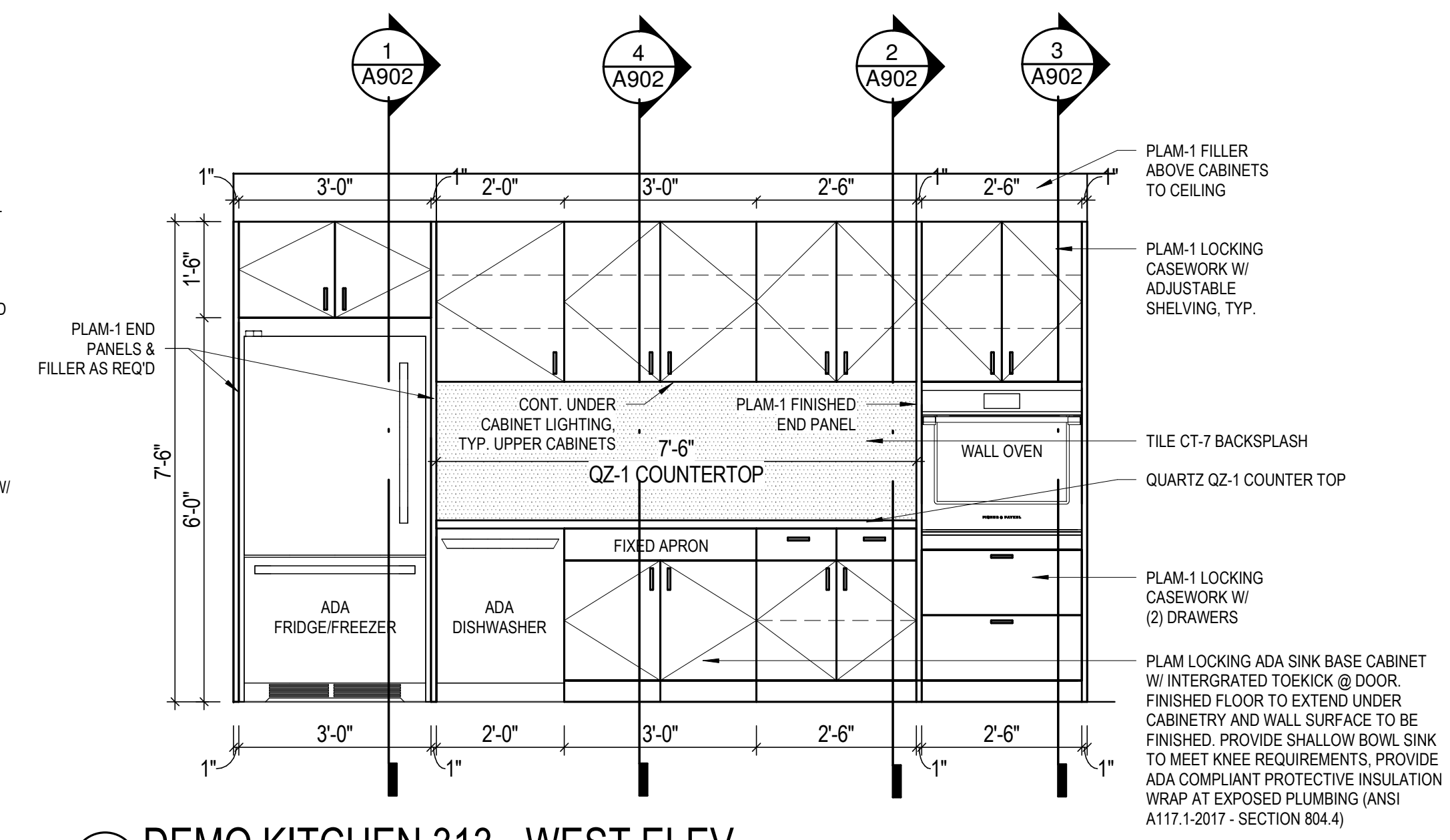
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**INTERIOR
ELEVATIONS**

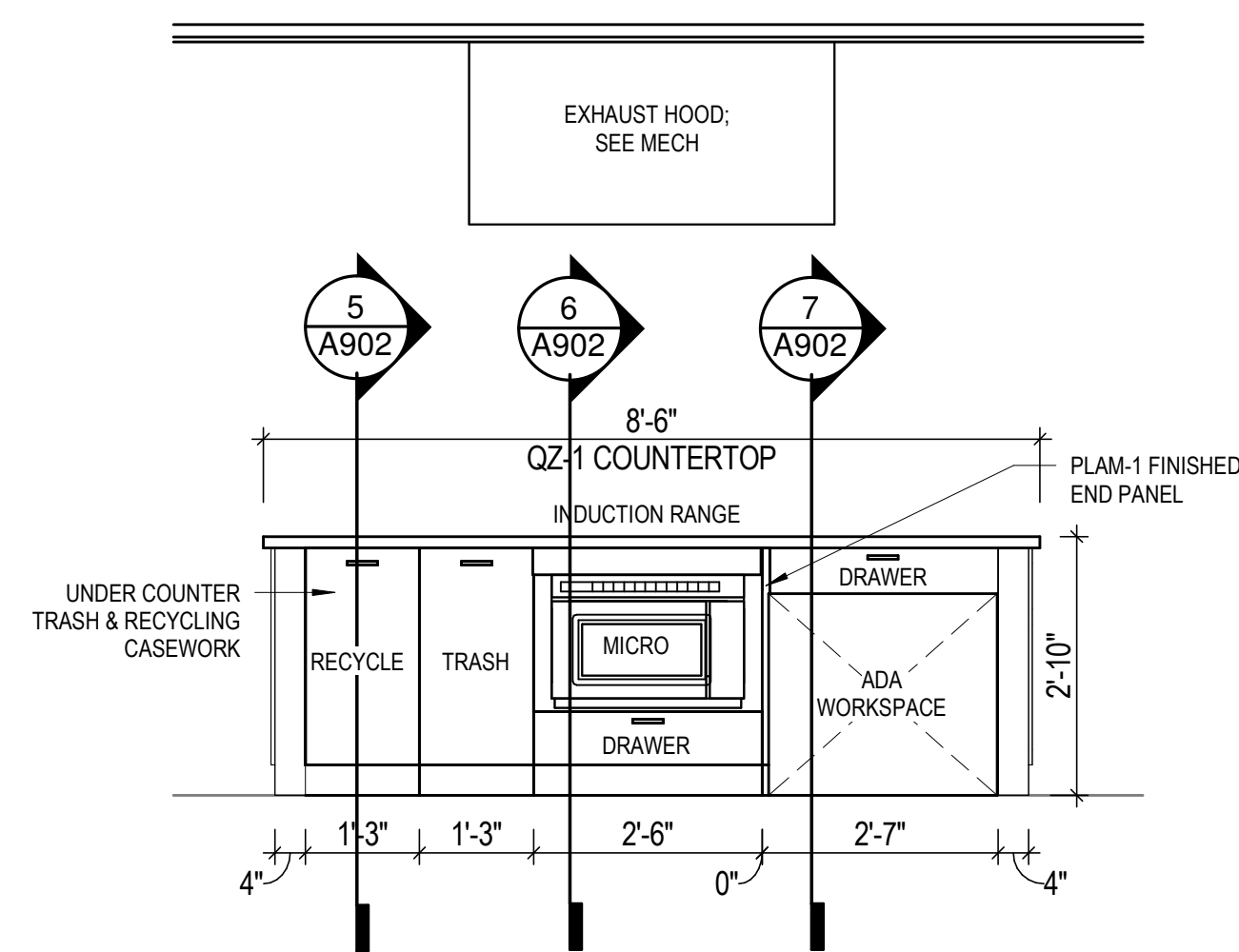
A801



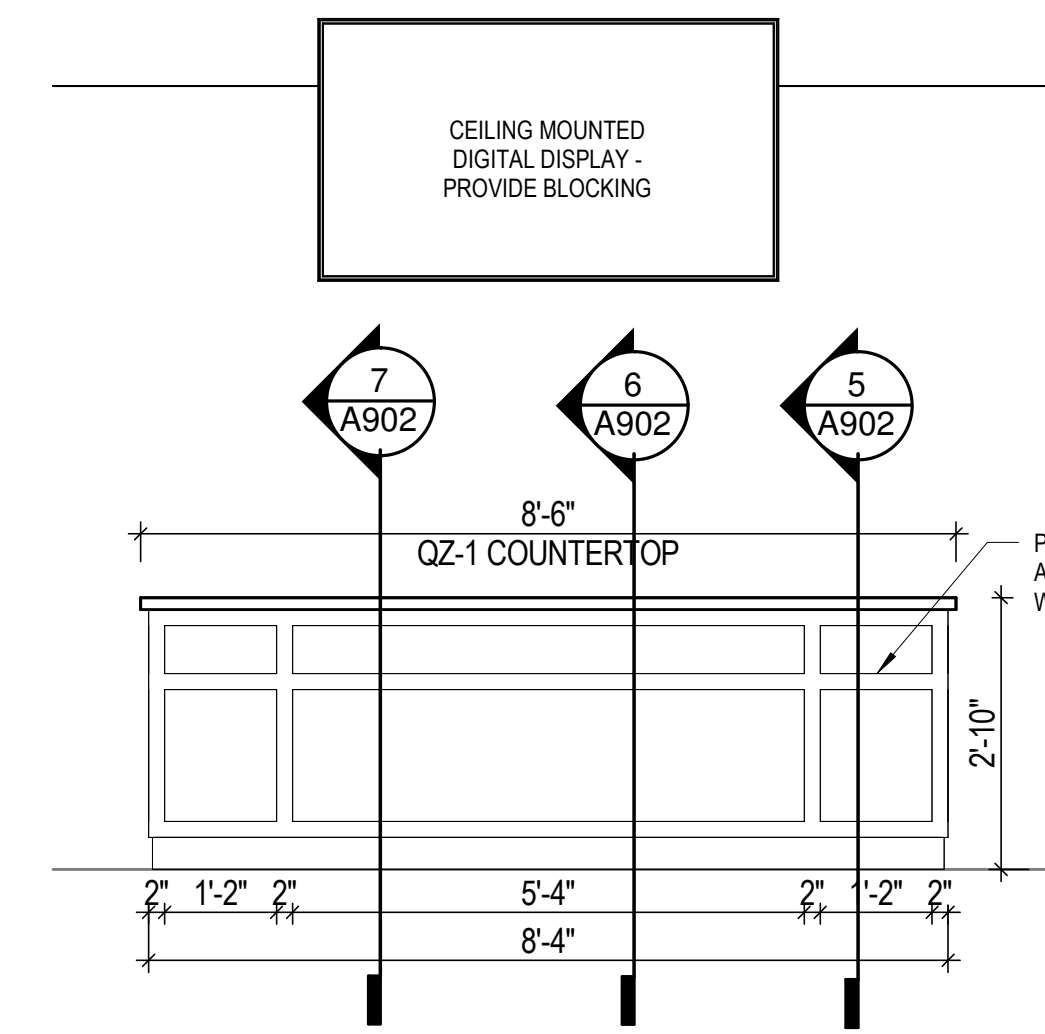
1 FLEX SPACE 312 - WEST
SCALE: 1/2" = 1'-0"



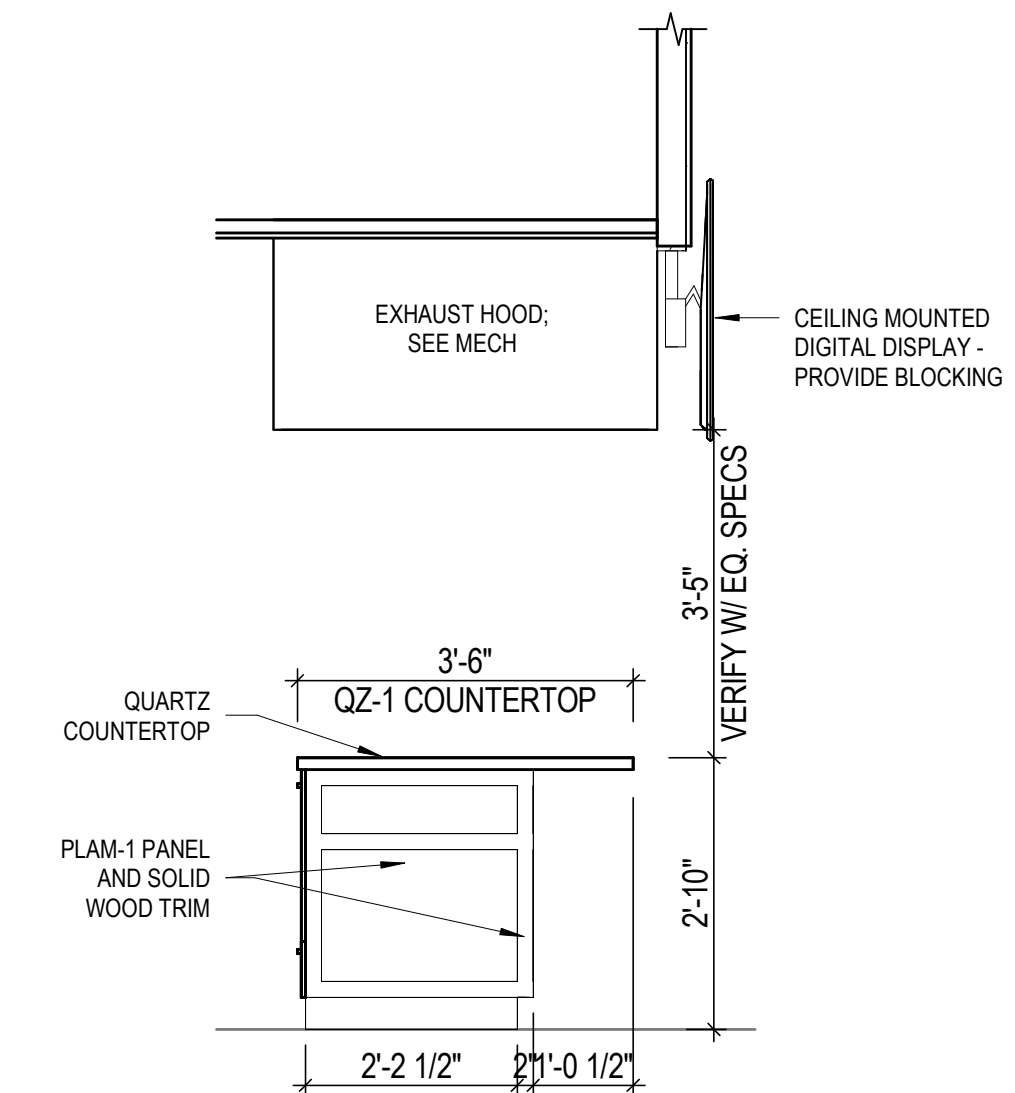
2 DEMO KITCHEN 313 - WEST ELEV.
SCALE: 1/2" = 1'-0"



3 DEMO KITCHEN 313 - EAST ISLAND ELEV.
SCALE: 1/2" = 1'-0"



4 DEMO KITCHEN 313 - WEST ISLAND ELEV.
SCALE: 1/2" = 1'-0"



5 DEMO KITCHEN 313 - SOUTH ISLAND ELEV.
SCALE: 1/2" = 1'-0"

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**INTERIOR
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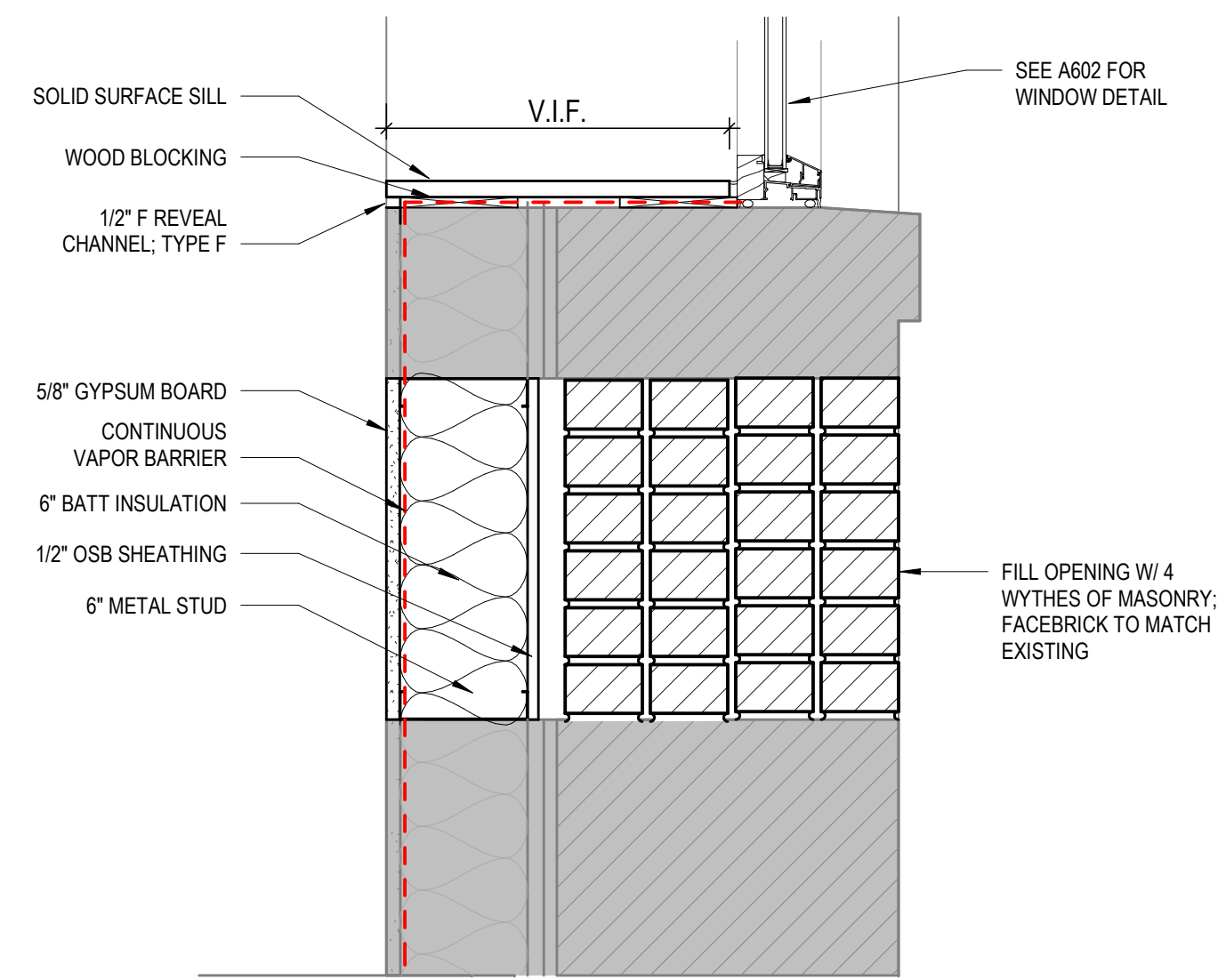
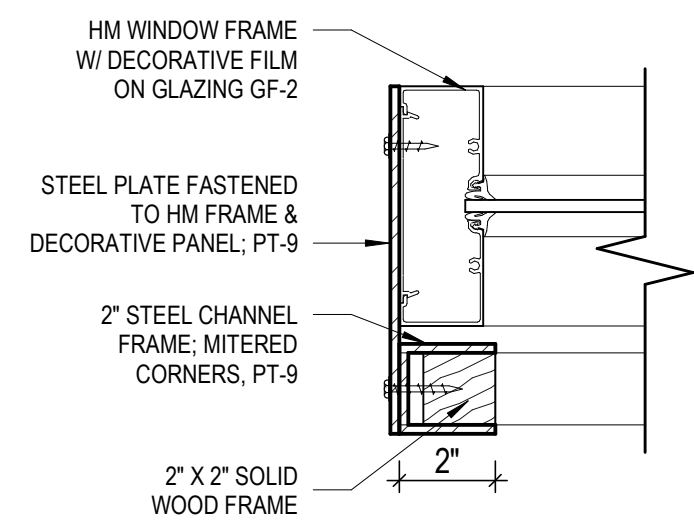
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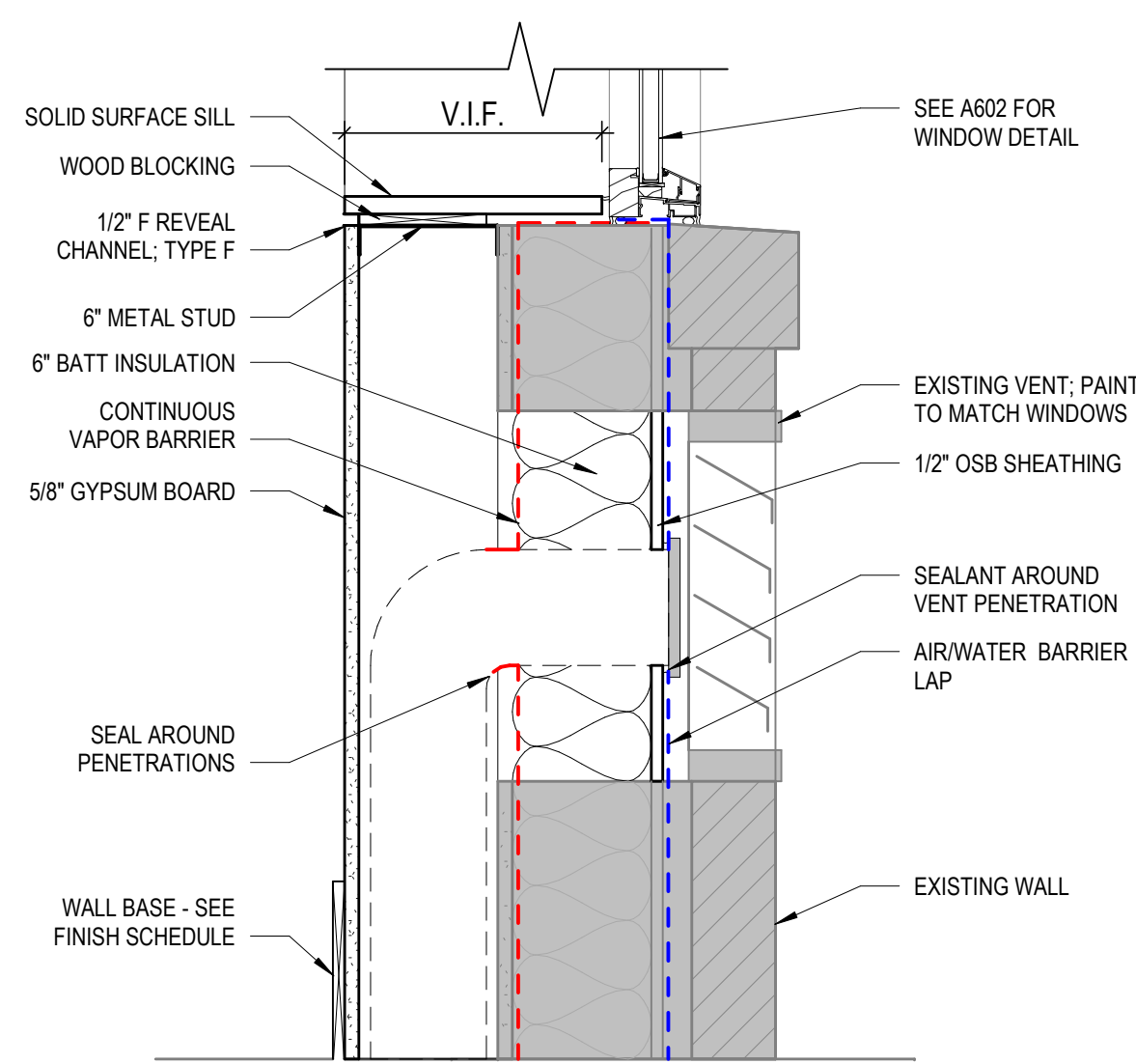
DETAILS

A900

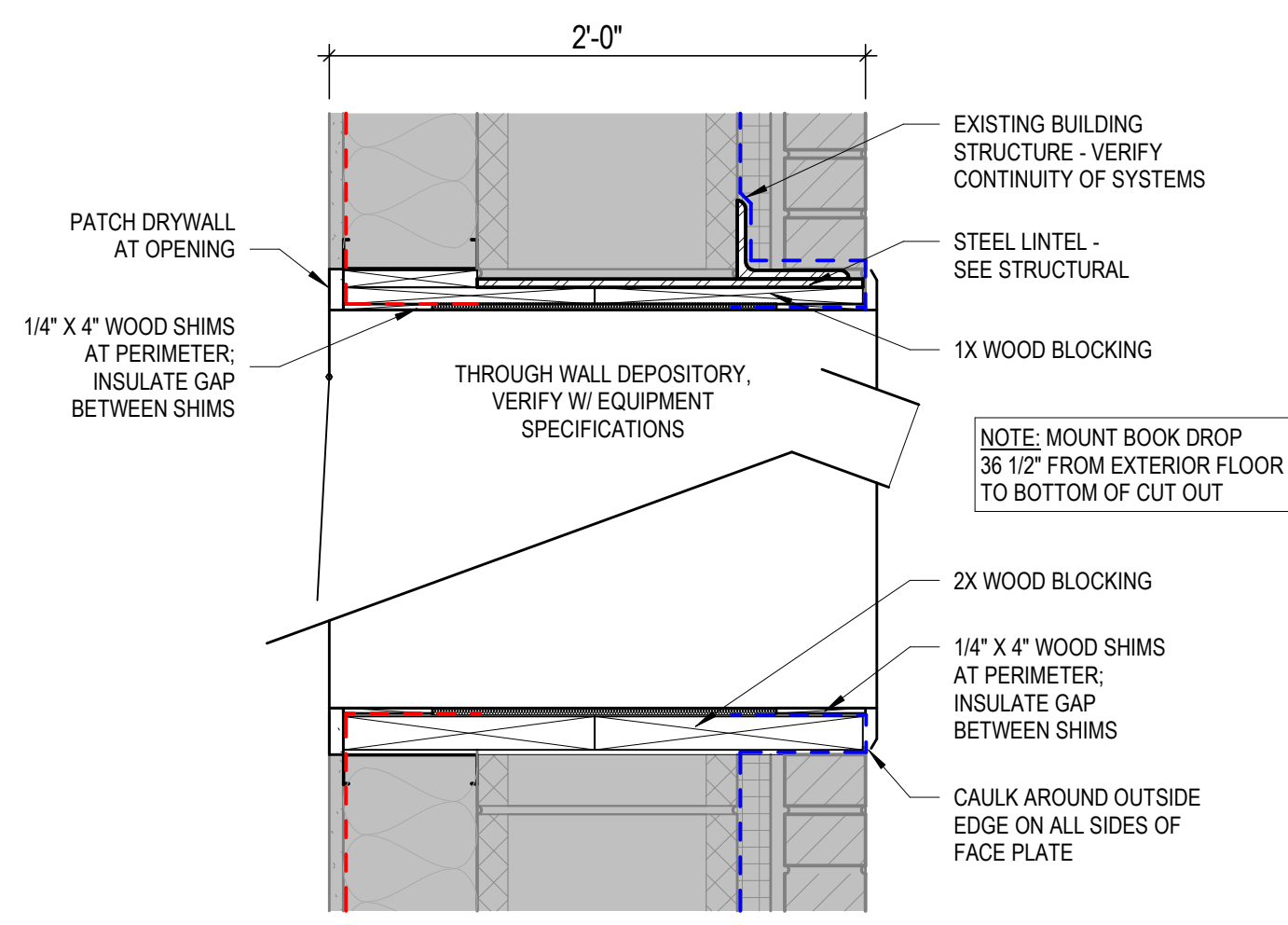
1 ALCOVE 316 - SCREEN PLAN DETAIL
SCALE: 3" = 1'-0"



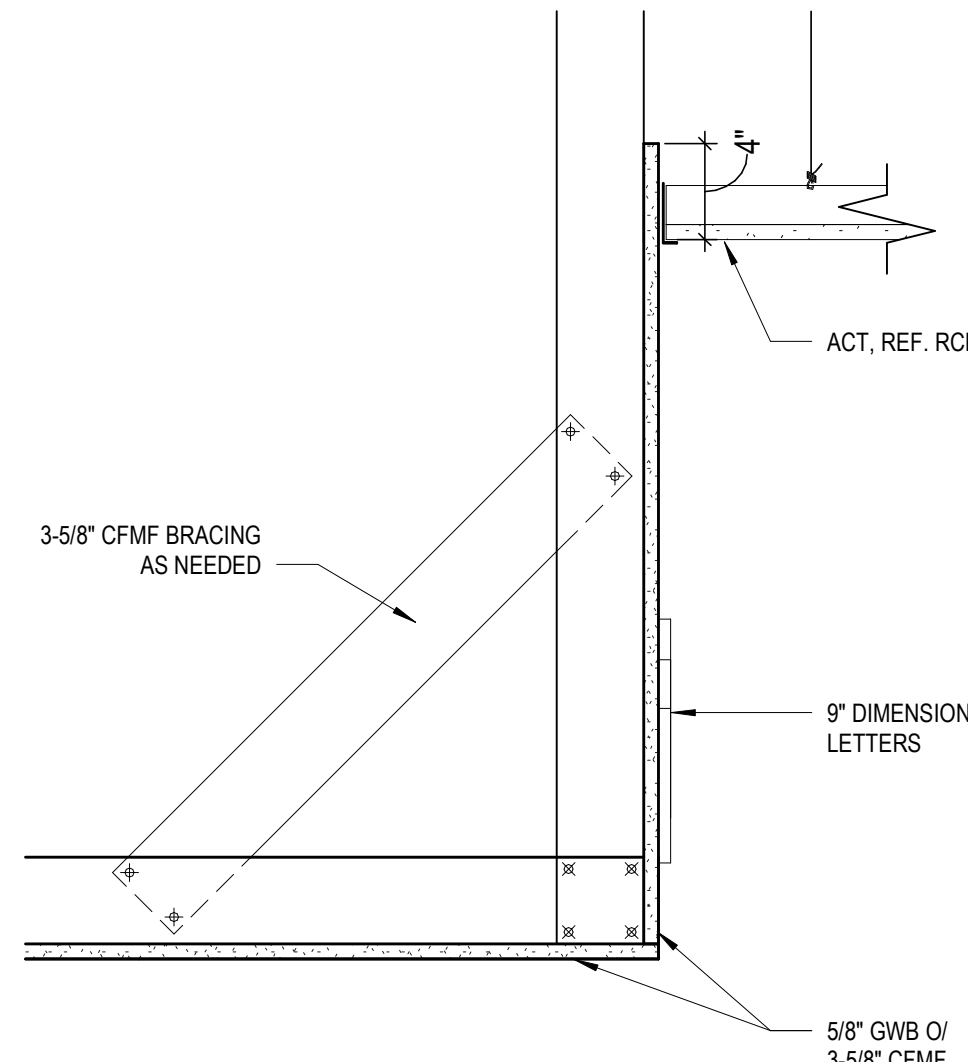
3 WORKROOM 110 - BOILER INTAKE DETAIL
SCALE: 1 1/2" = 1'-0"



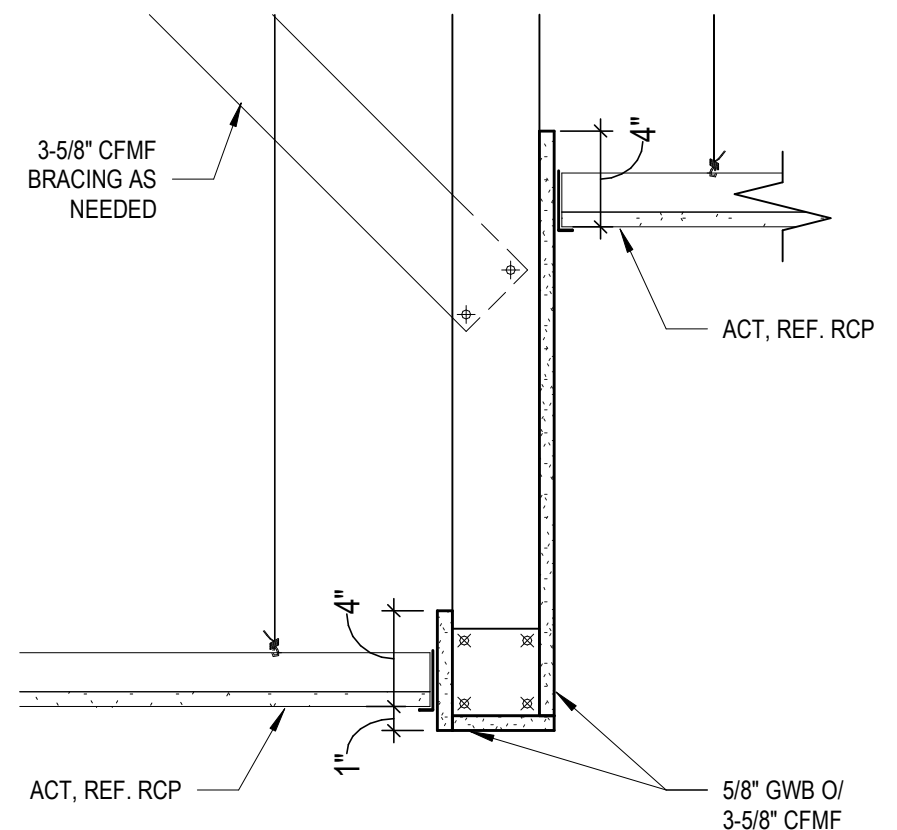
4 WORKROOM 110 - BOOK DROP DETAIL
SCALE: 1 1/2" = 1'-0"



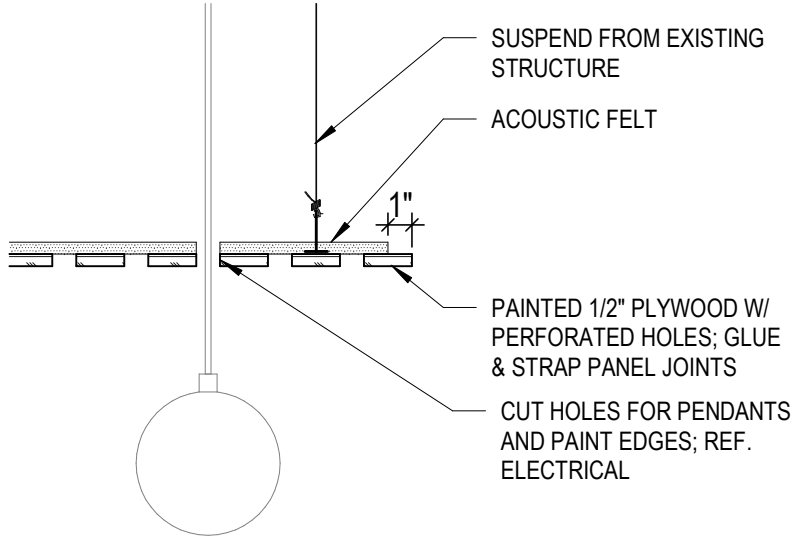
5 ADULTS 105 - CIRC. DESK SOFFIT DETAIL
SCALE: 1 1/2" = 1'-0"



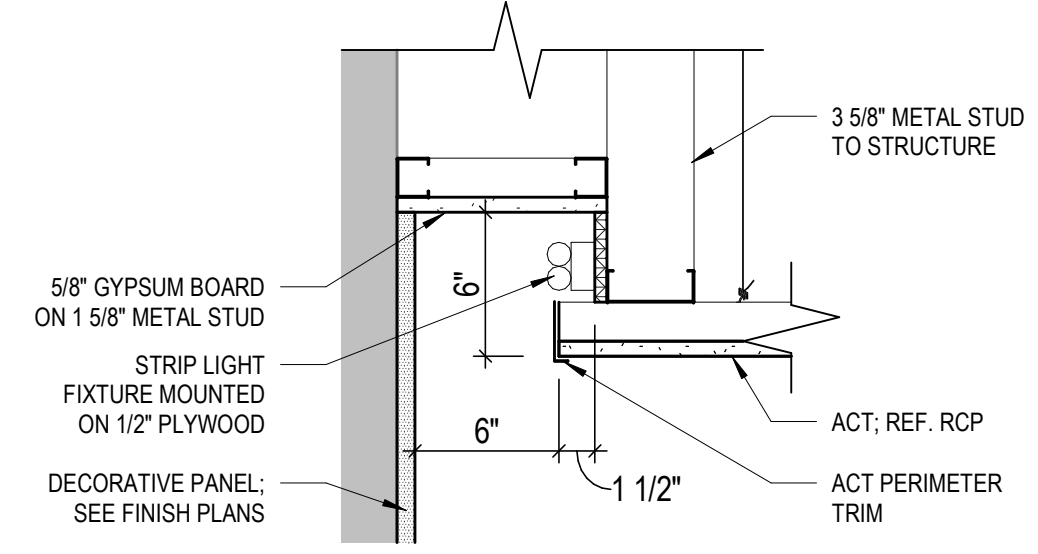
6 KIDS 201 - ACT SOFFIT DETAIL
SCALE: 1 1/2" = 1'-0"



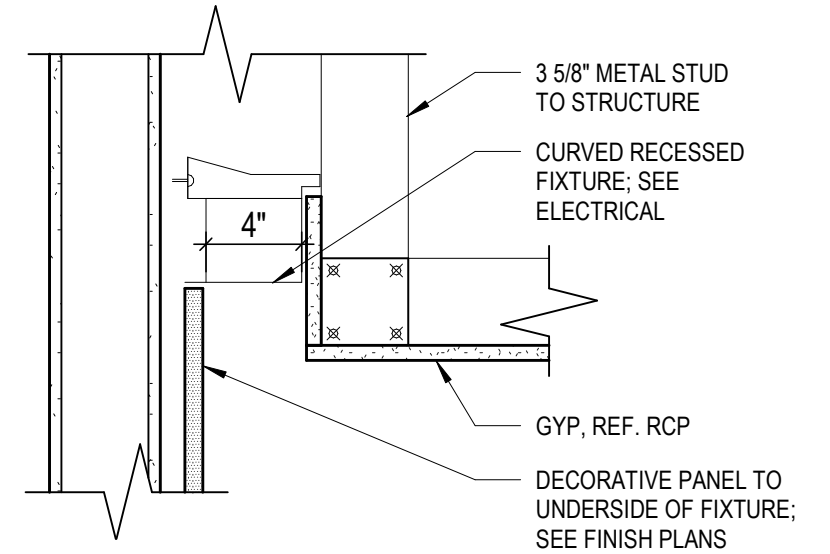
7 KIDS 201 - CEILING CLOUD DETAIL
SCALE: 1 1/2" = 1'-0"



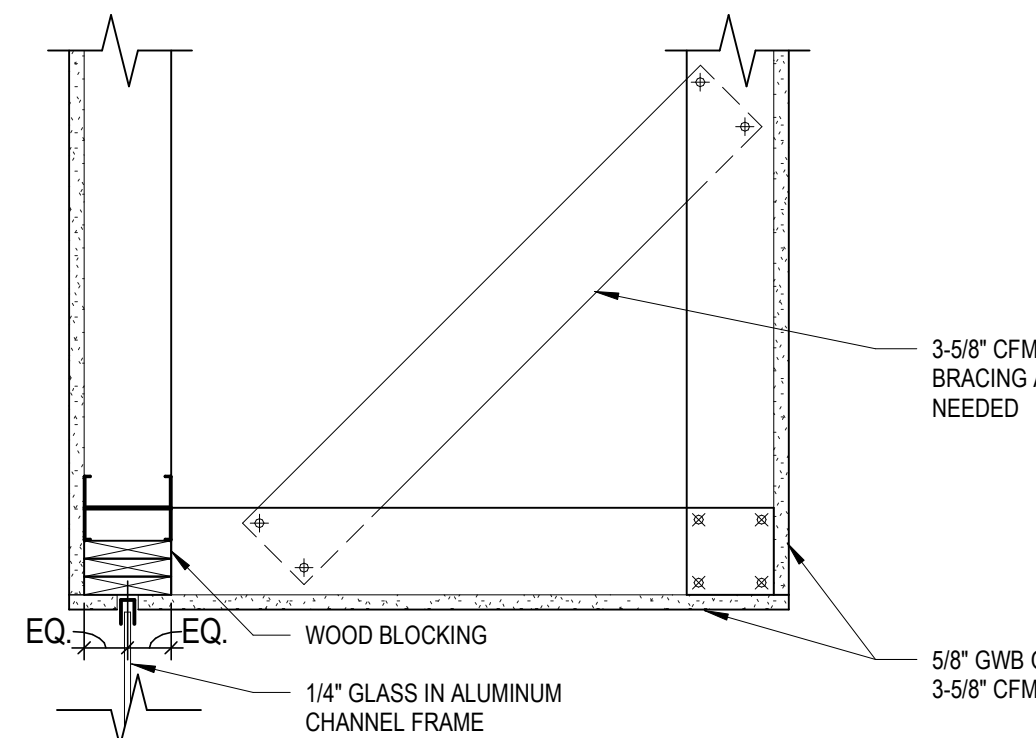
8 SENSORY 202 - COVE DETAIL
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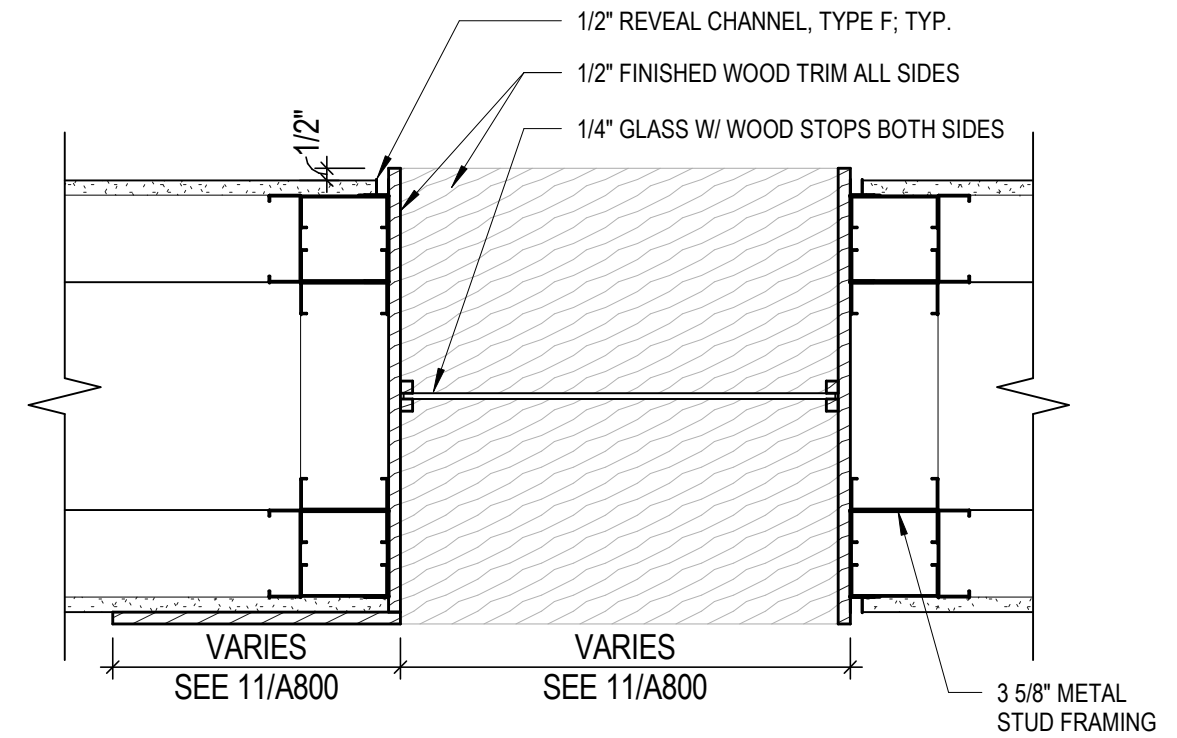
9 HALL 304 - RECESS DETAIL
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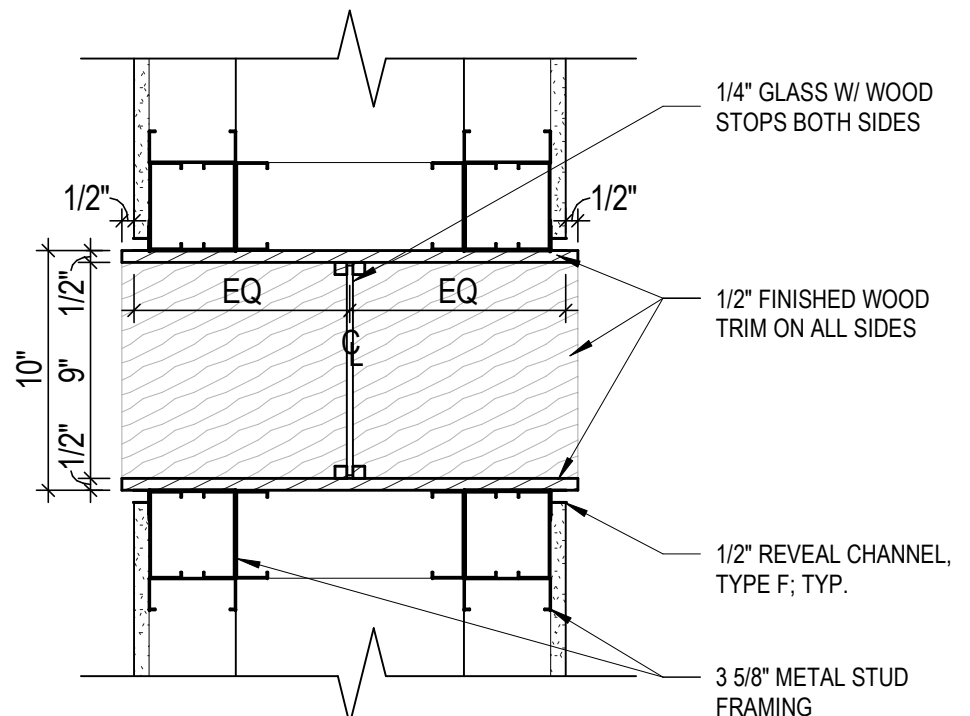
10 HALL 213 - SELF-CHECK SOFFIT DETAIL
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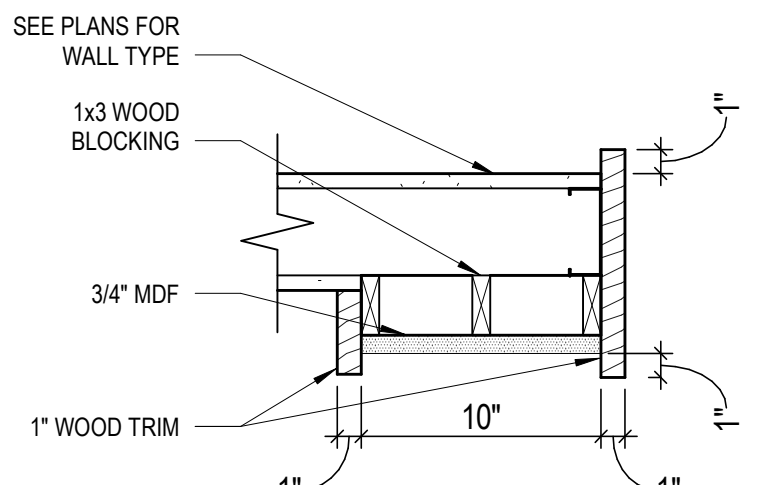
11 MAIN STAIR 215 - LITE JAMB DETAIL
SCALE: 1 1/2" = 1'-0"



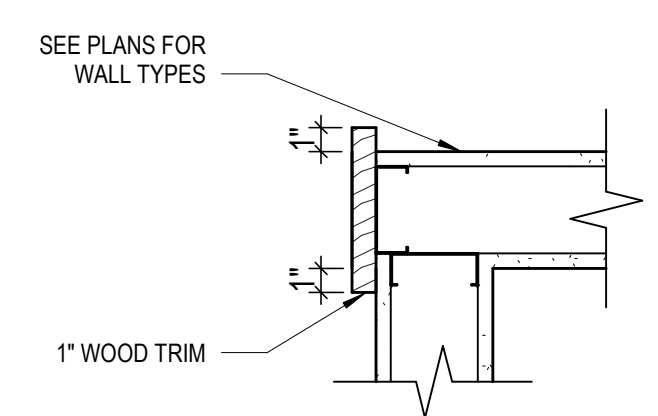
12 MAIN STAIR 215 - LITE SECTION
SCALE: 1 1/2" = 1'-0"



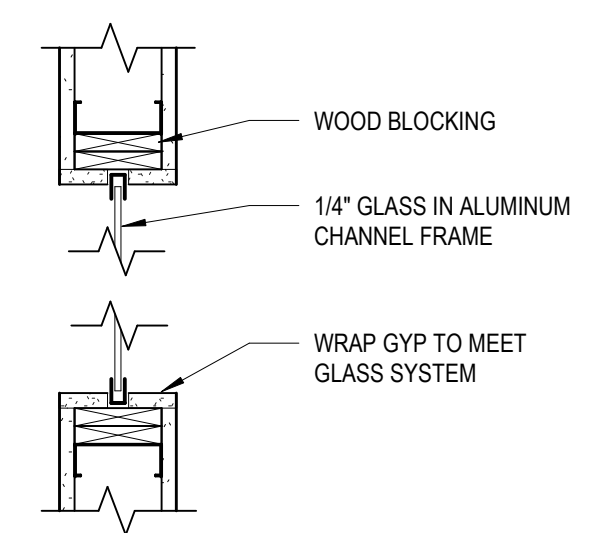
13 KIDS 201 - PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



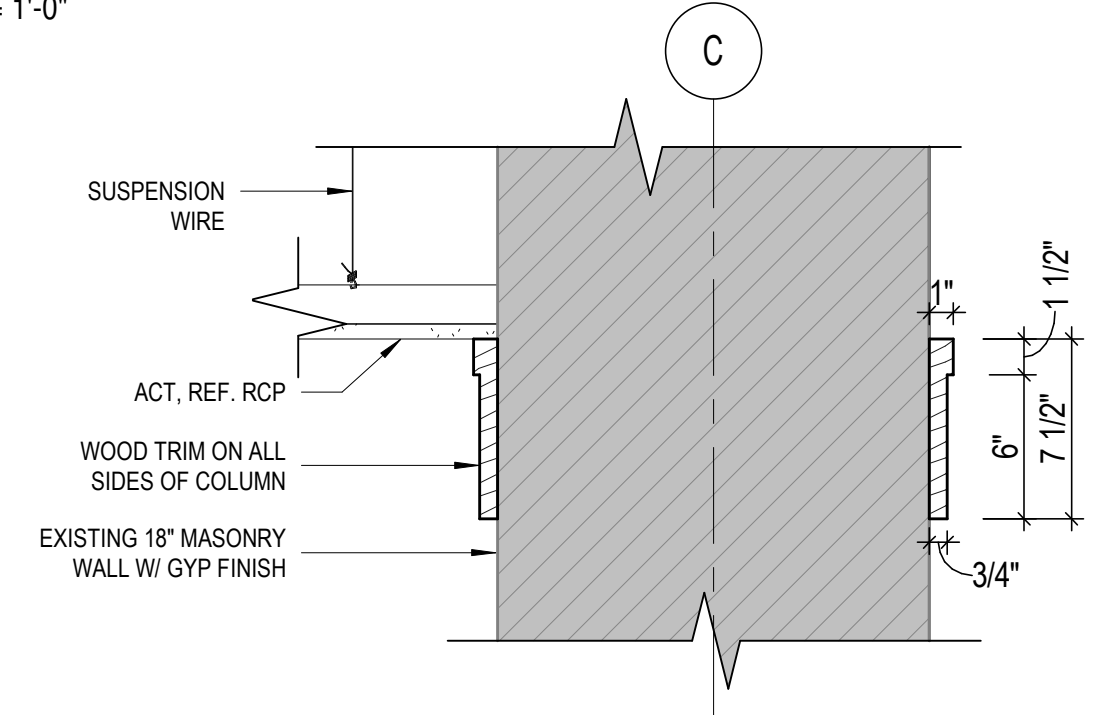
14 SENSORY 202 - PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



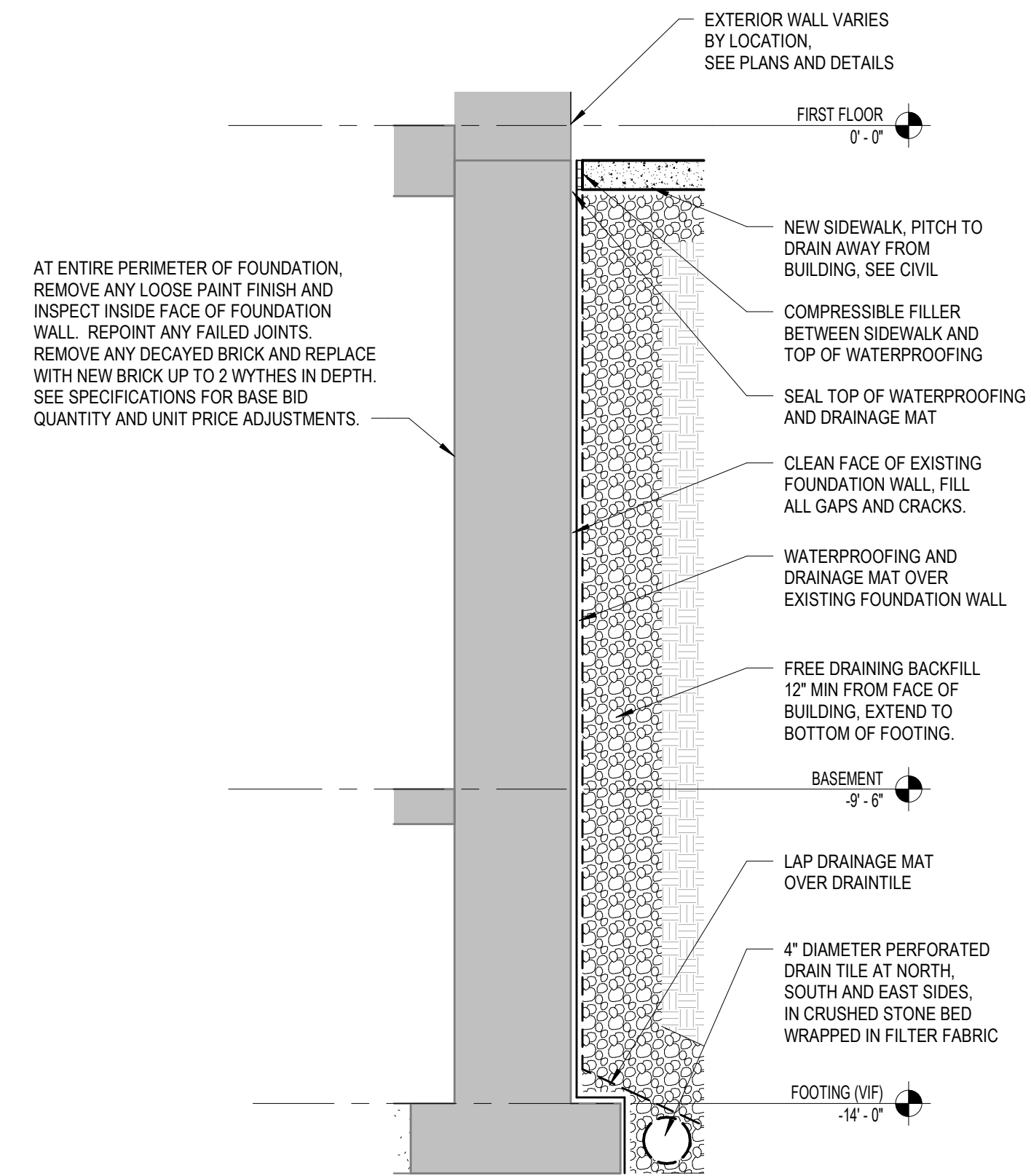
15 TYP. CLERESTORY DETAIL
SCALE: 1 1/2" = 1'-0"



16 ADULTS 106 - COLUMN TRIM SECTION
SCALE: 1 1/2" = 1'-0"



17 TYP. FOUNDATION WATERPROOFING
SCALE: 1/2" = 1'-0"



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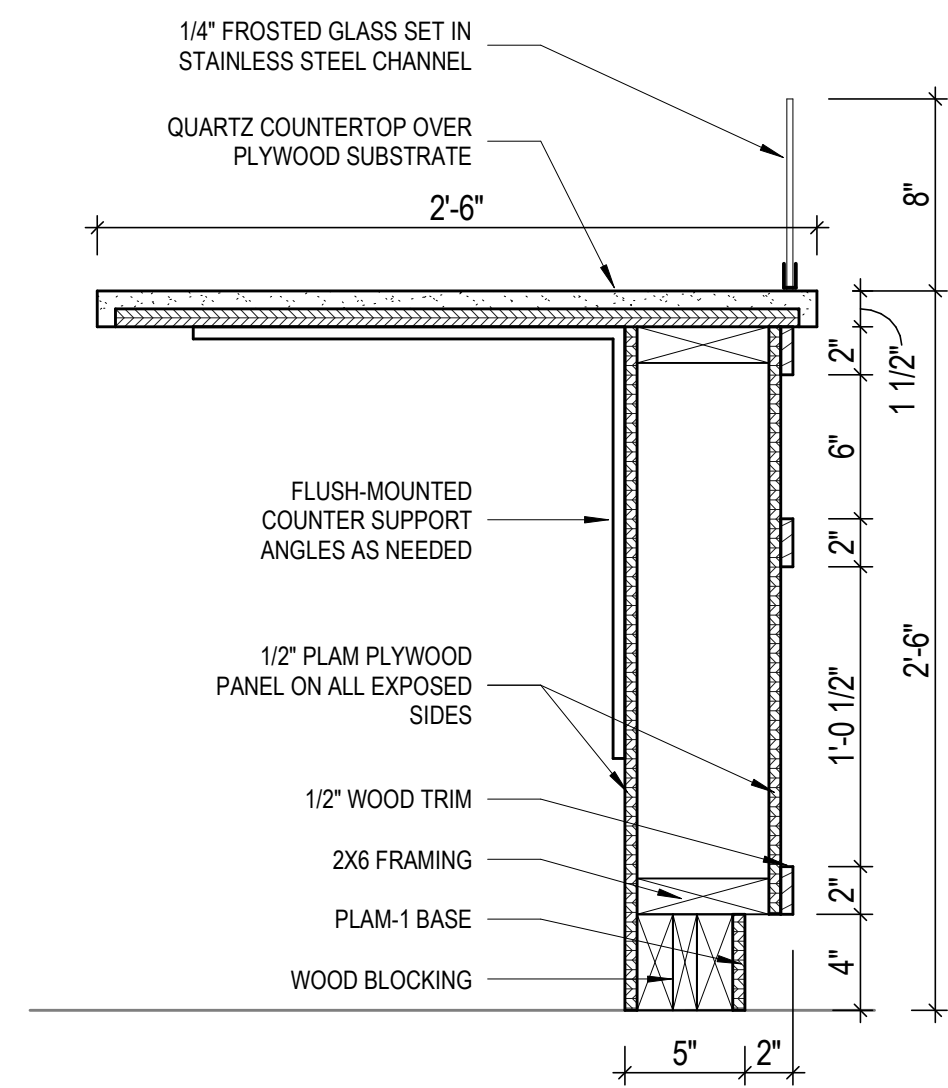
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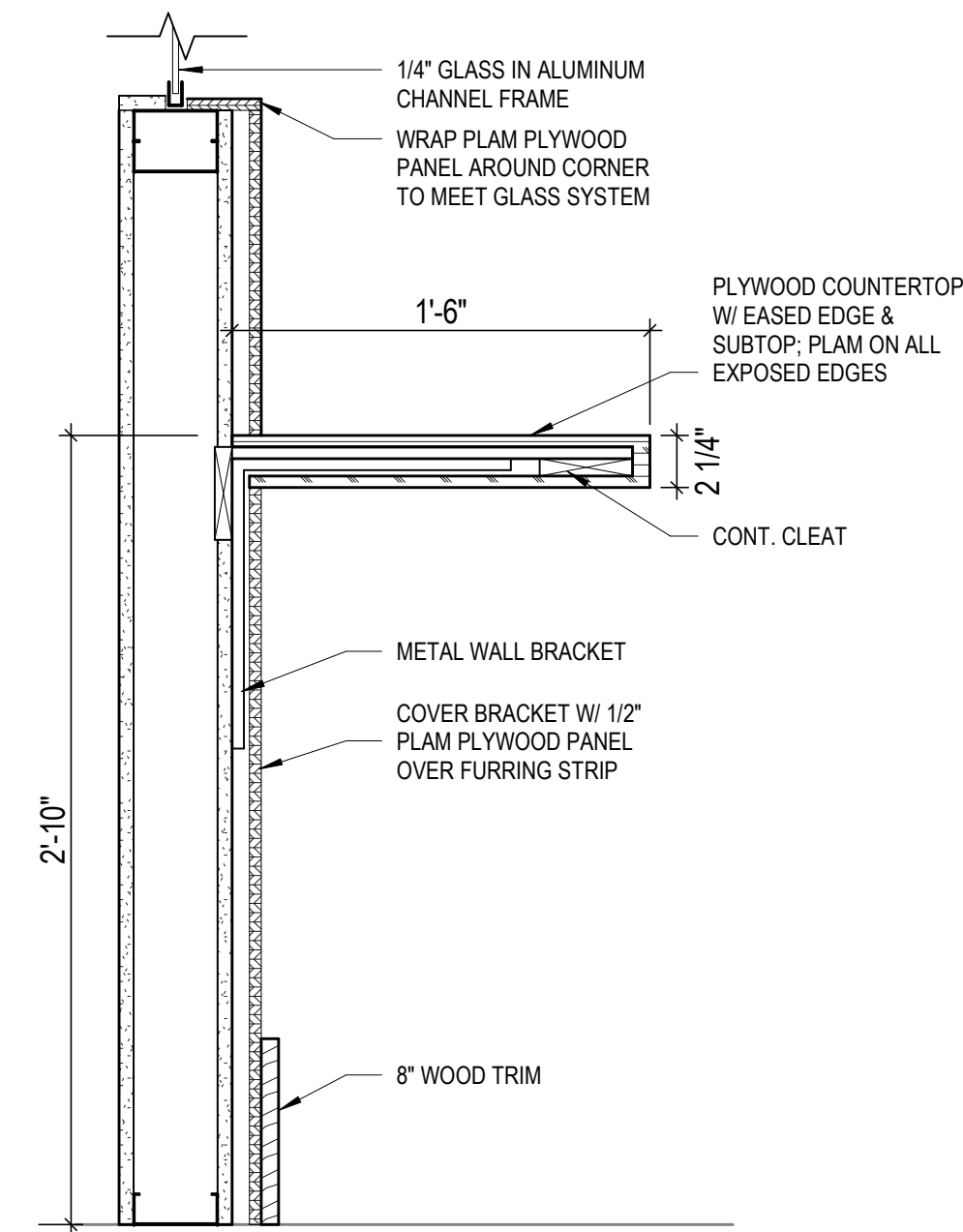
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DETAILS**

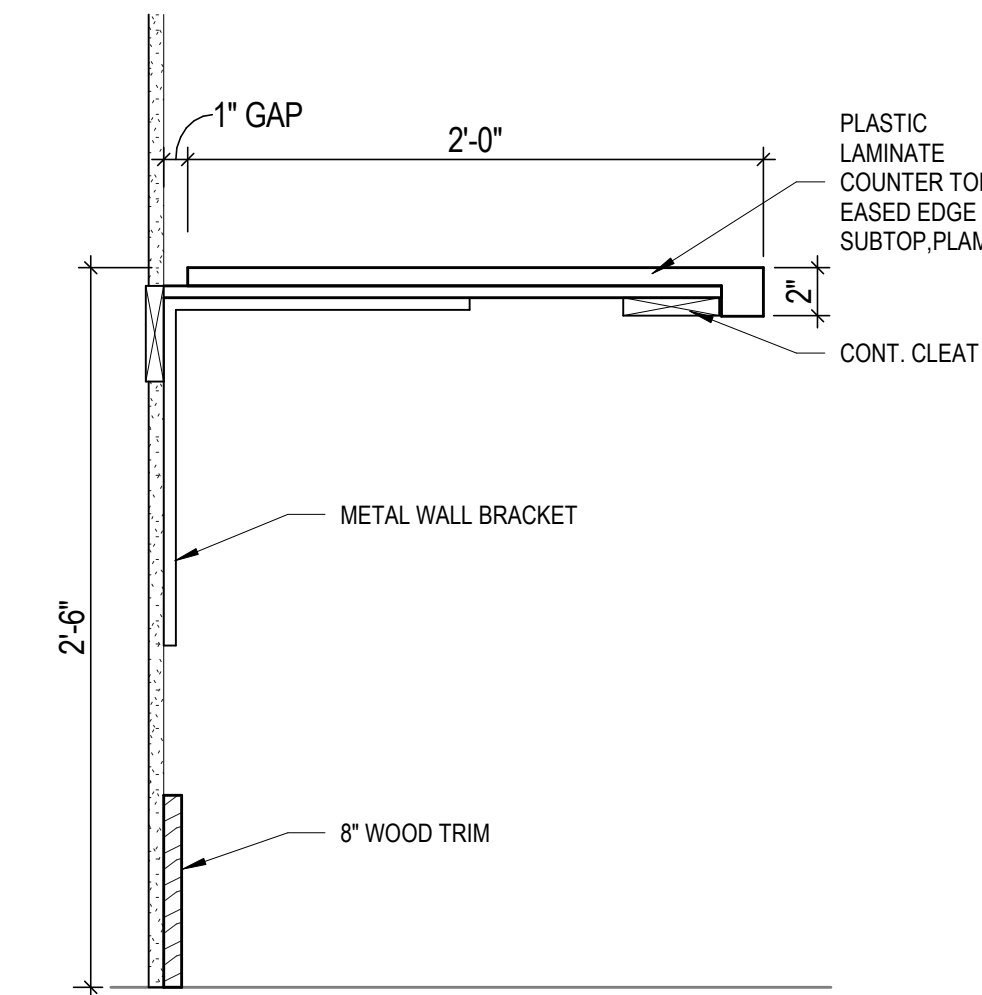
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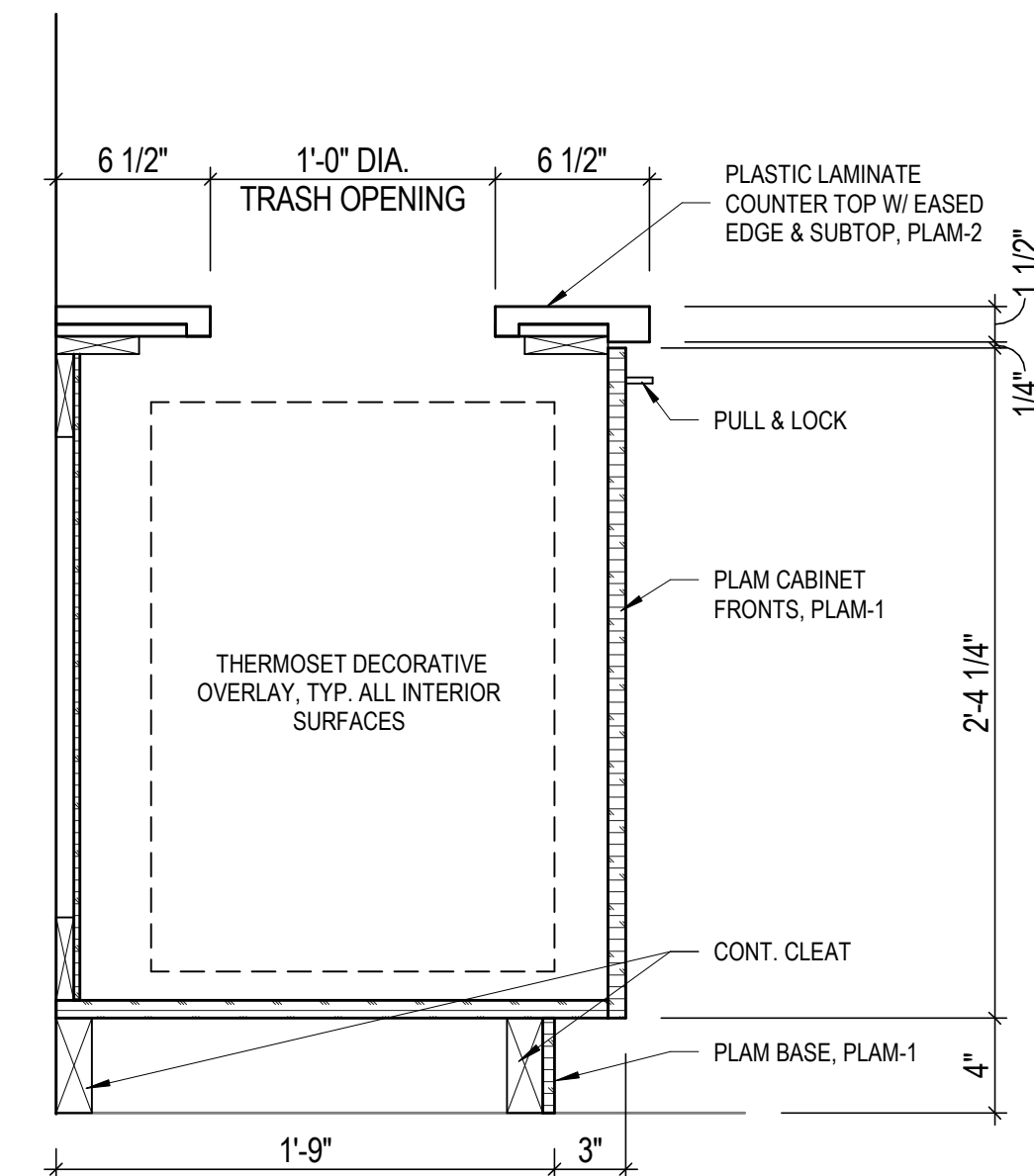
1 CIRCULATION DESK - SECTION
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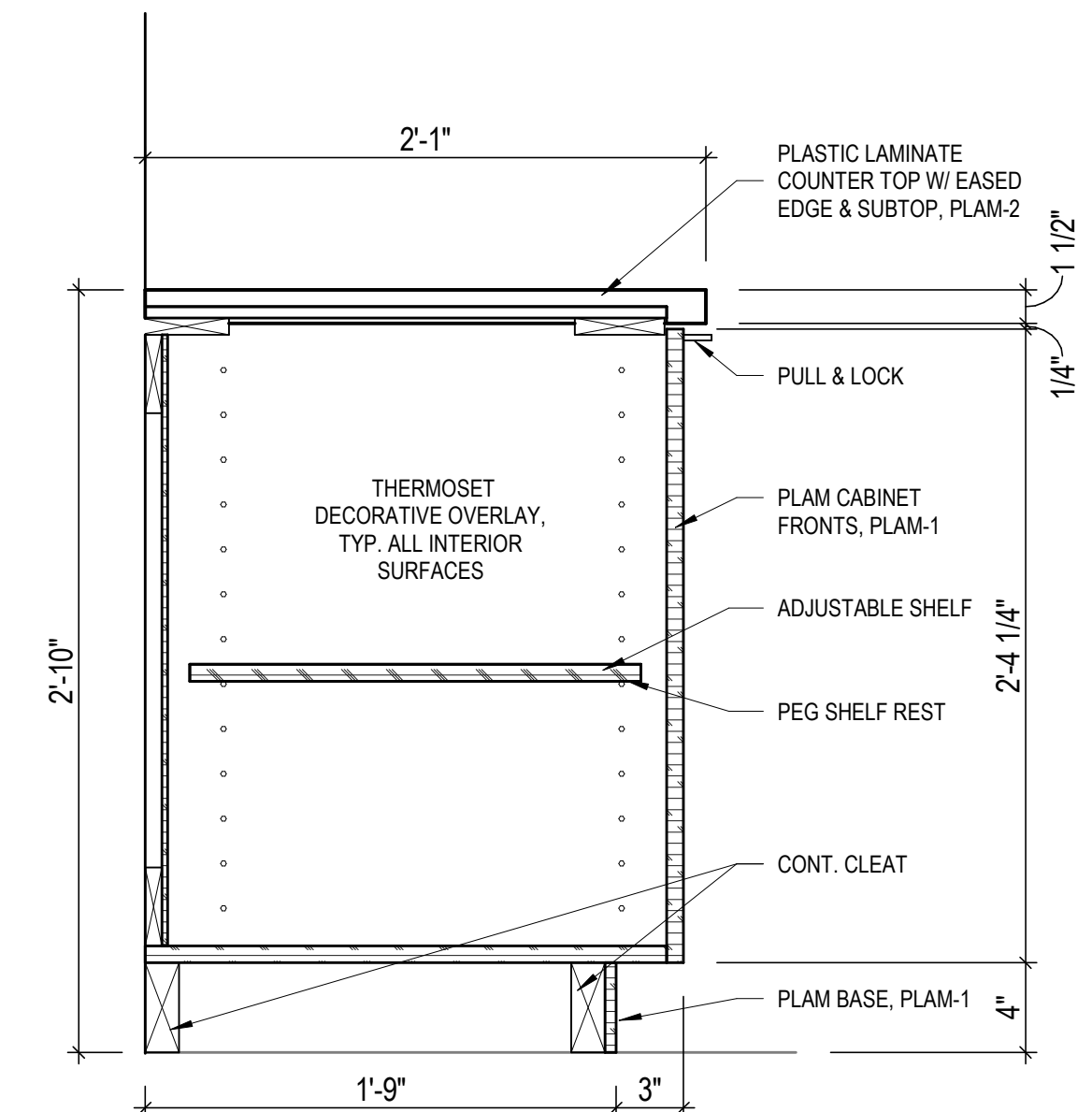
2 COUNTER - SELF CHECK
SCALE: 1 1/2" = 1'-0"



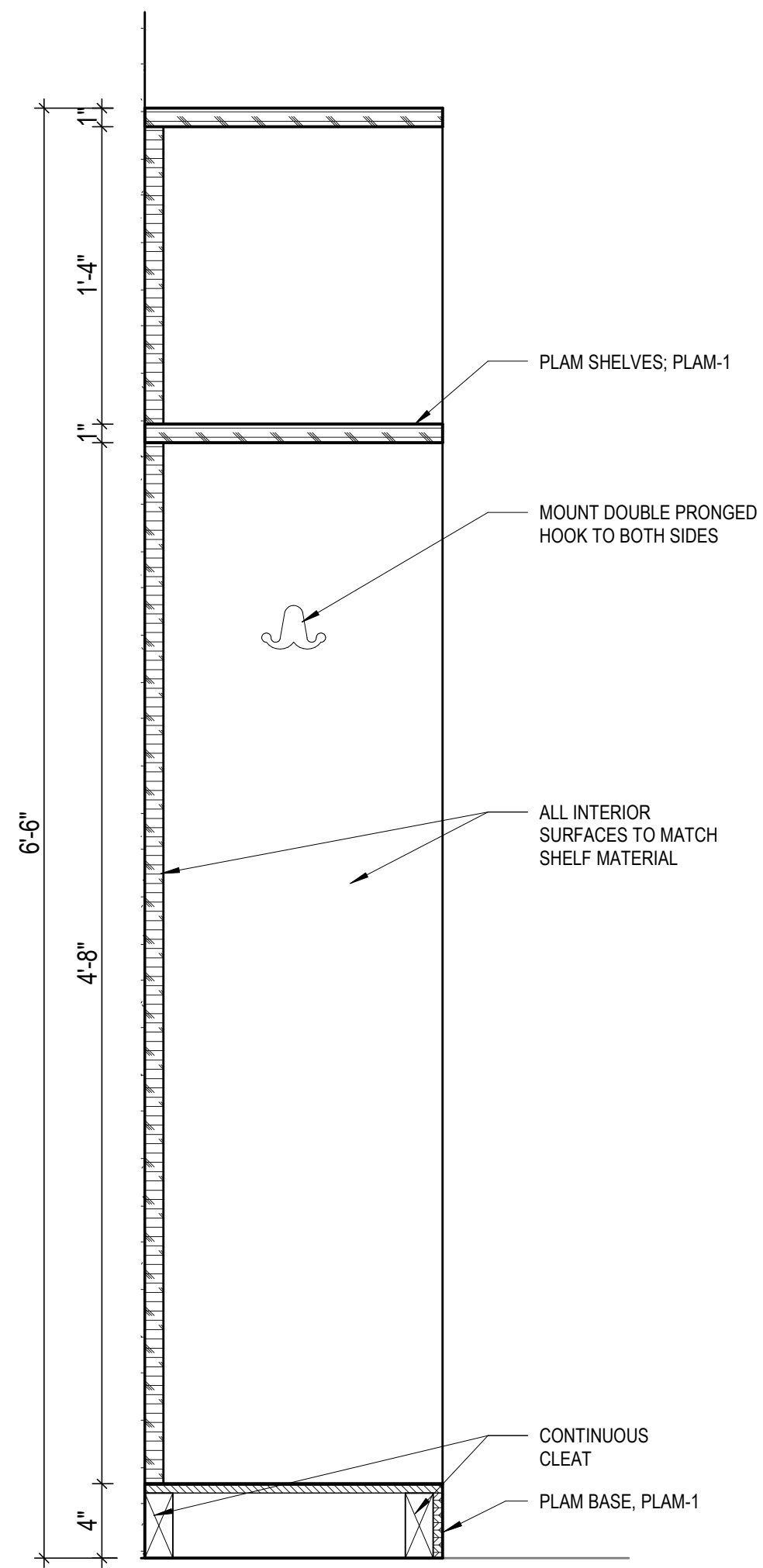
3 COUNTER - SITTING
SCALE: 1 1/2" = 1'-0"



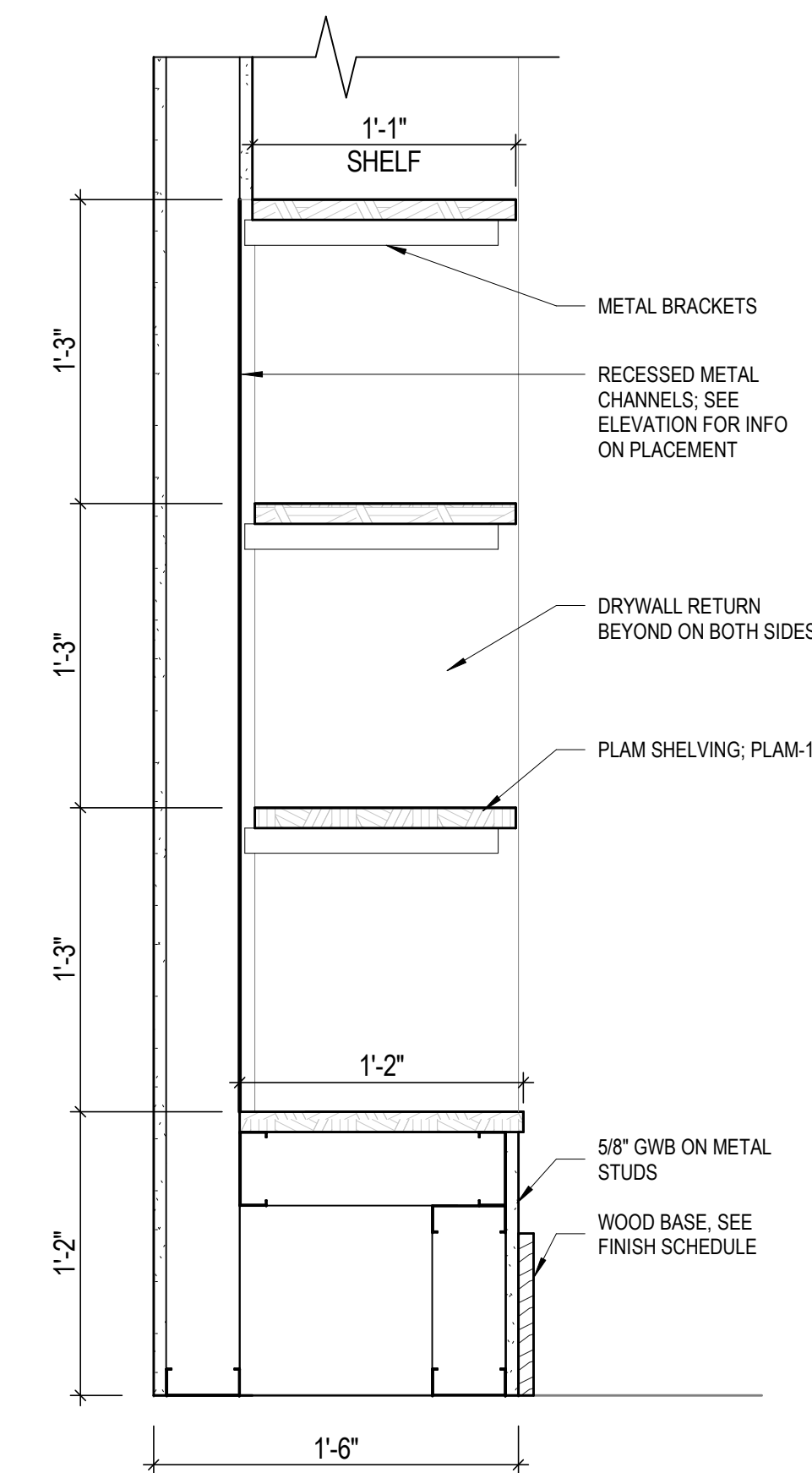
4 BASE CABINET - TRASH/RECYCLE PULL
SCALE: 1 1/2" = 1'-0"



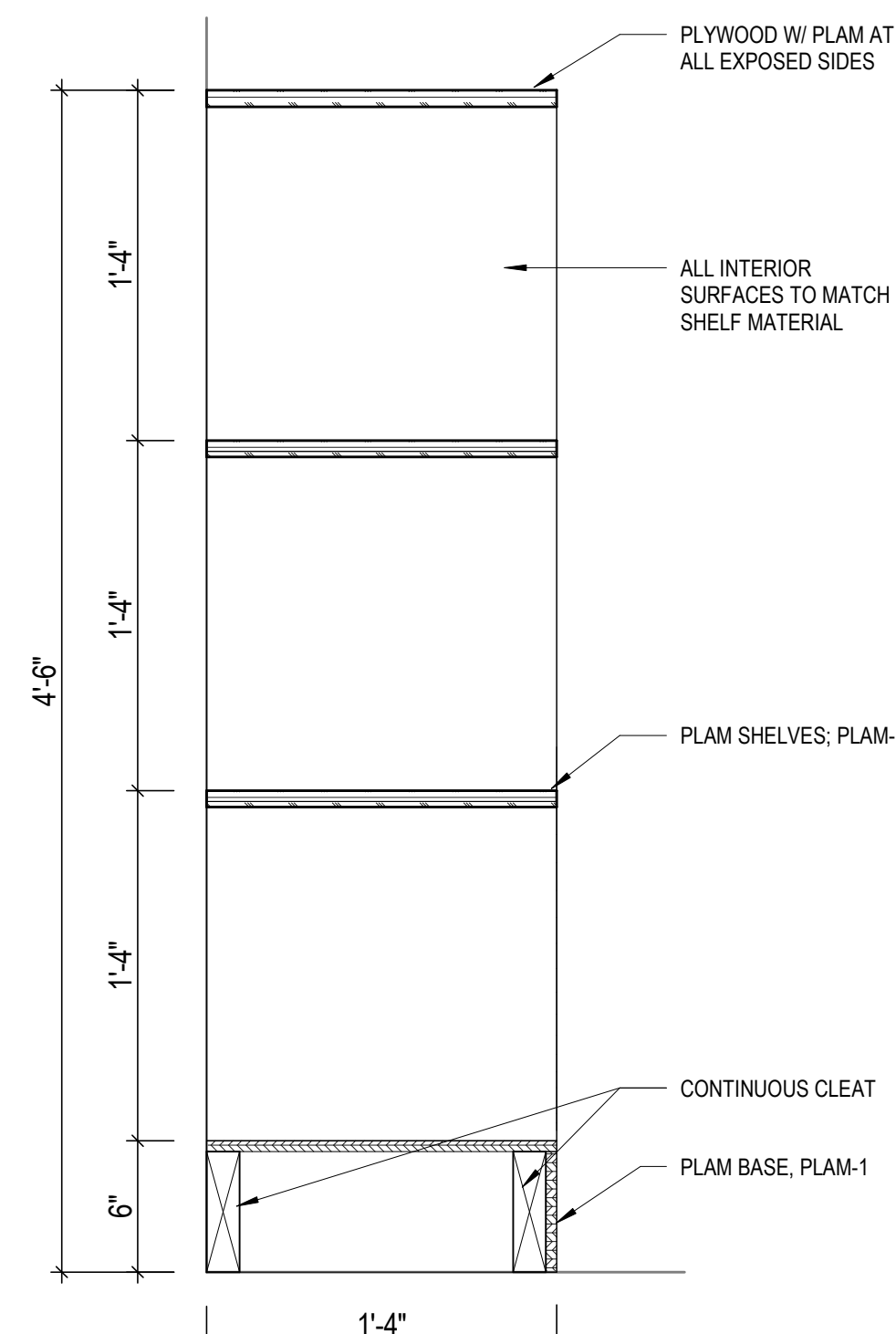
5 BASE CABINET
SCALE: 1 1/2" = 1'-0"



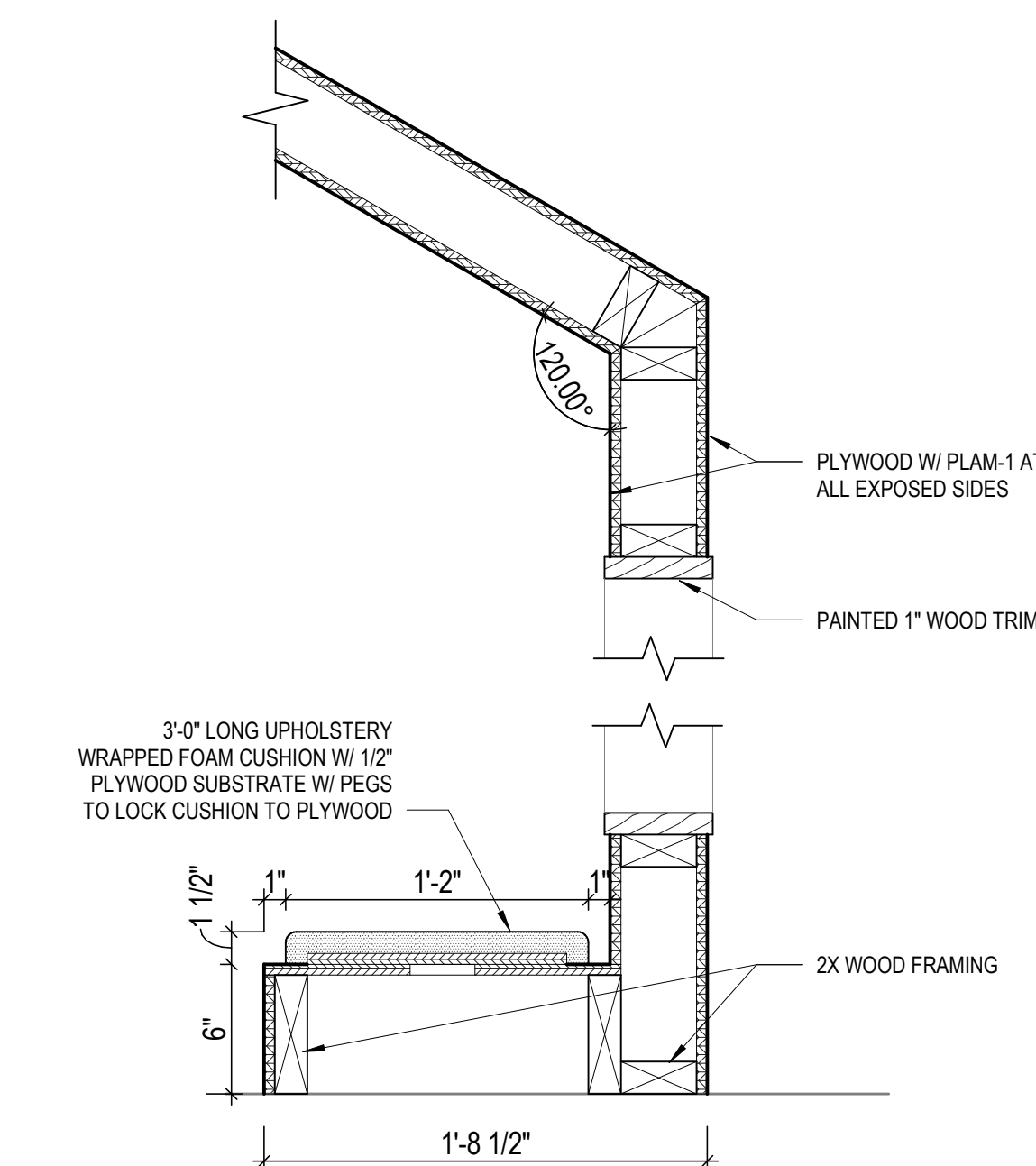
6 COAT CUBBY DETAIL
SCALE: 1 1/2" = 1'-0"



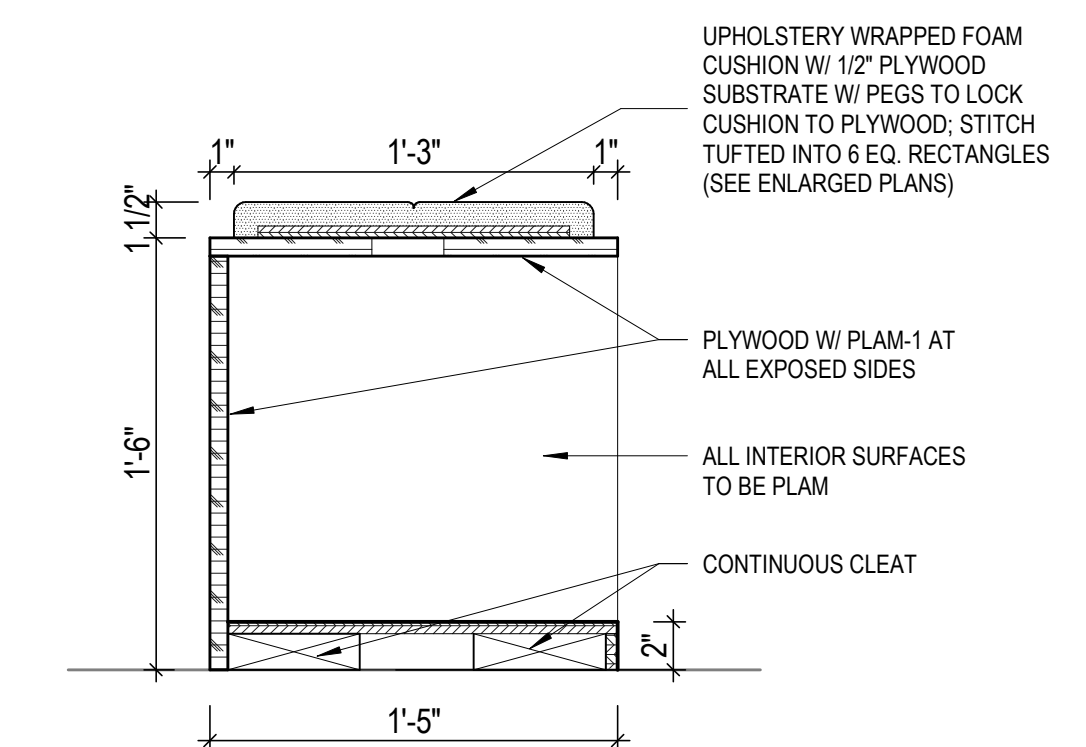
7 BUILT-IN SHELVES DETAIL
SCALE: 1 1/2" = 1'-0"



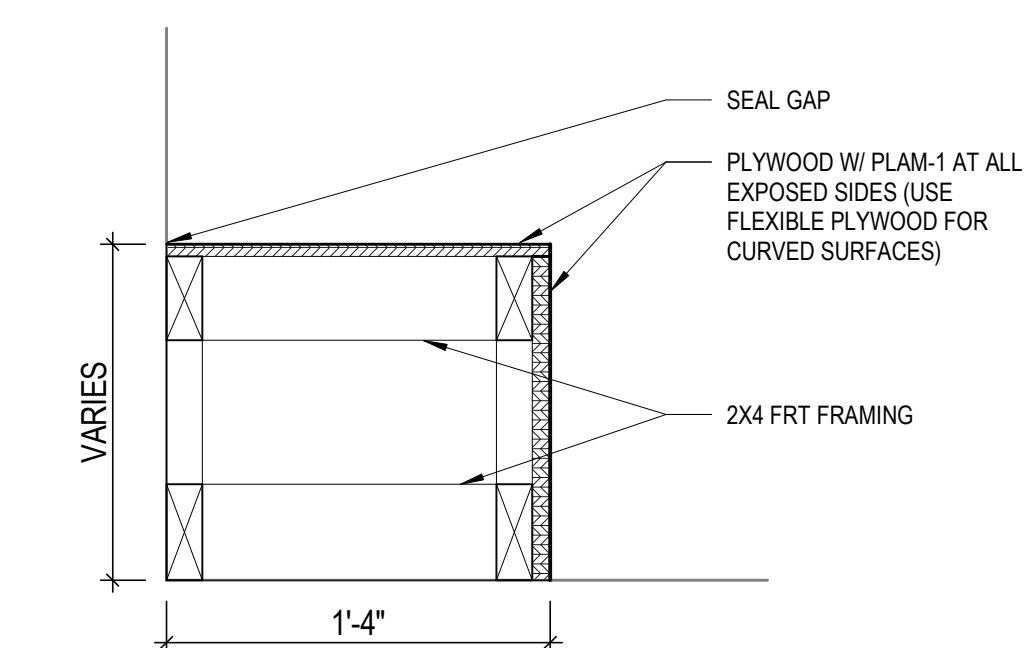
8 KIDS SHELVING - SECTION
SCALE: 1 1/2" = 1'-0"



9 KIDS PLAYHOUSE - SECTION
SCALE: 1 1/2" = 1'-0"



10 KIDS BENCH W/ CUBBIES - SECTION
SCALE: 1 1/2" = 1'-0"



11 KID'S BENCH - SECTION
SCALE: 1 1/2" = 1'-0"

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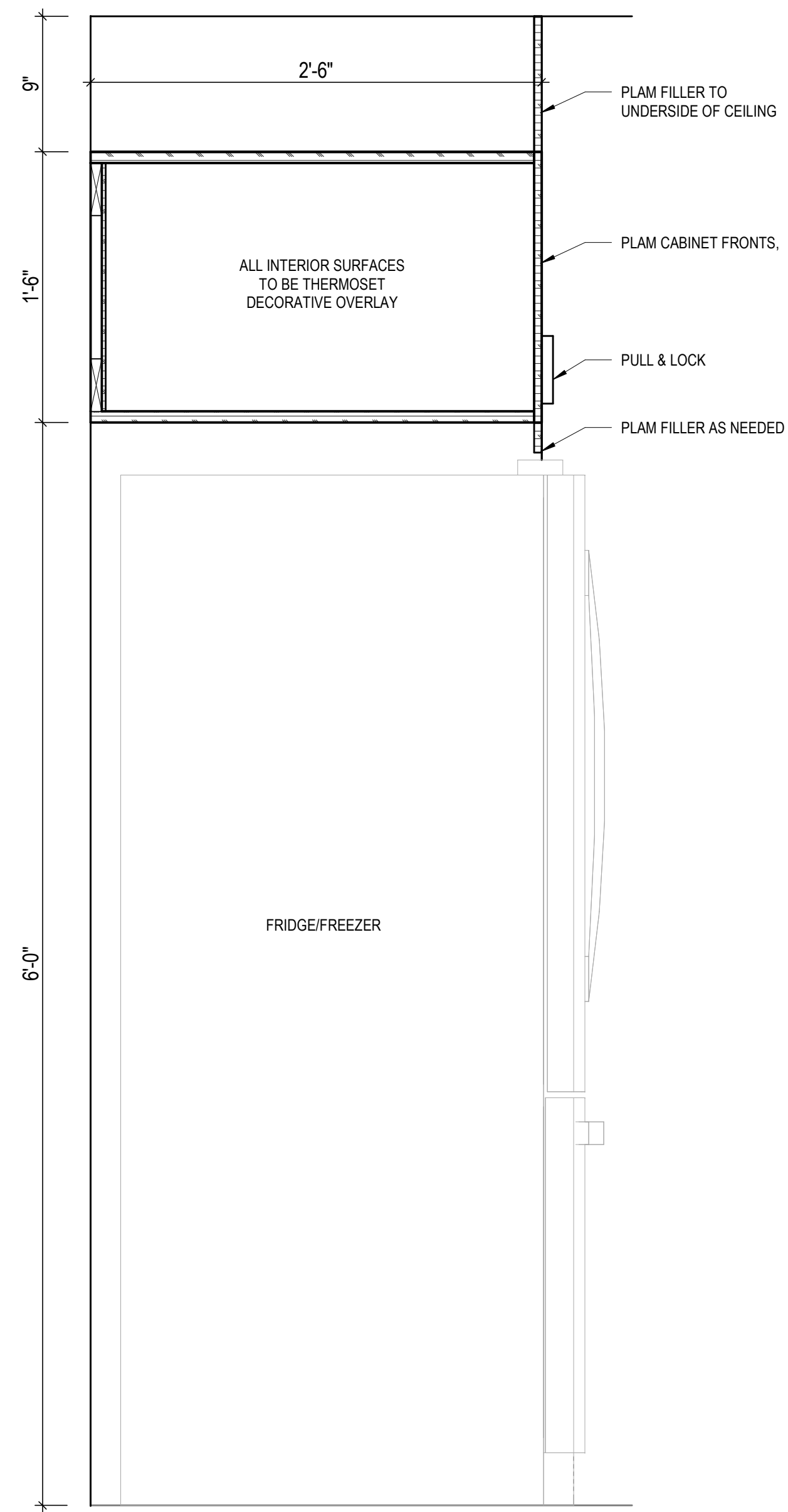
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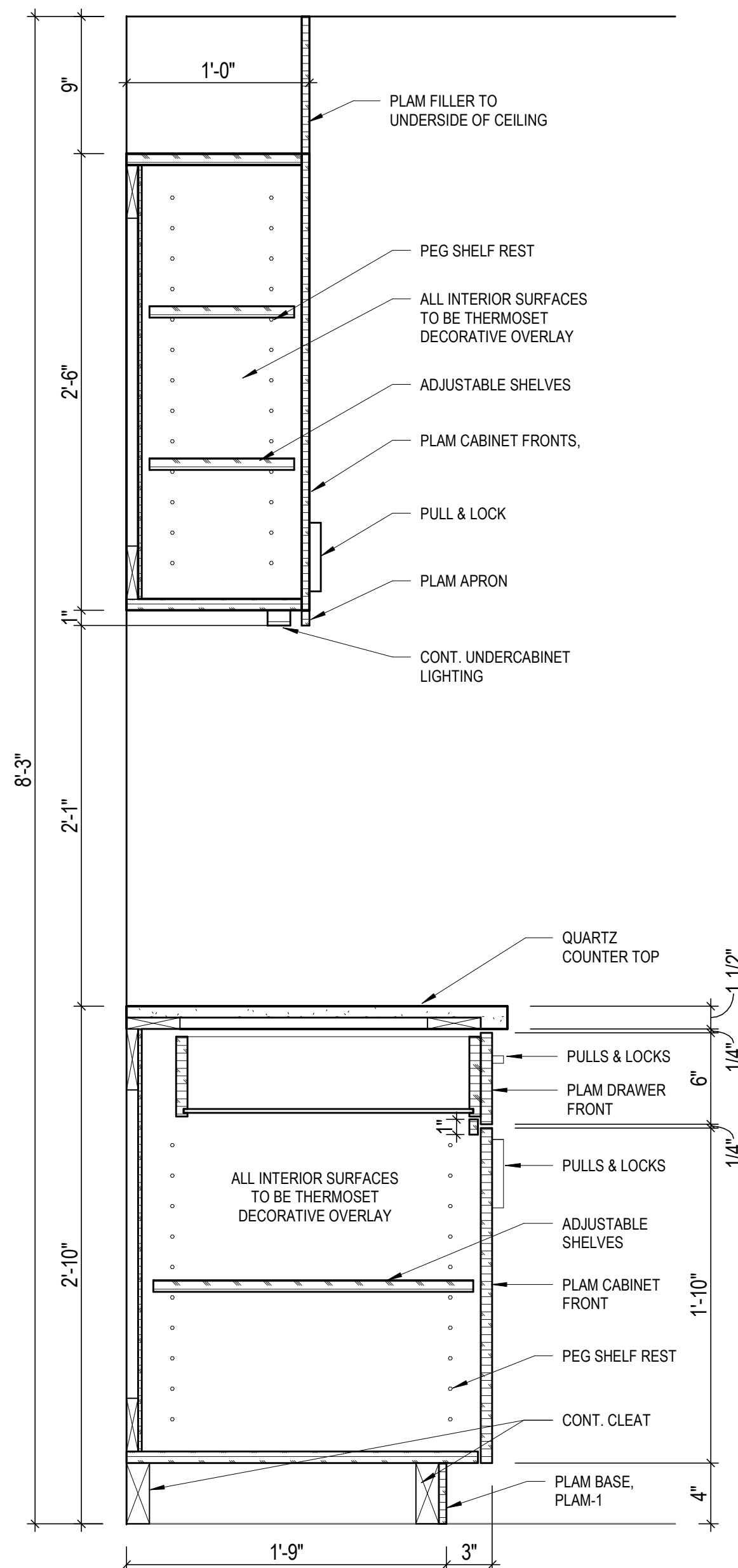
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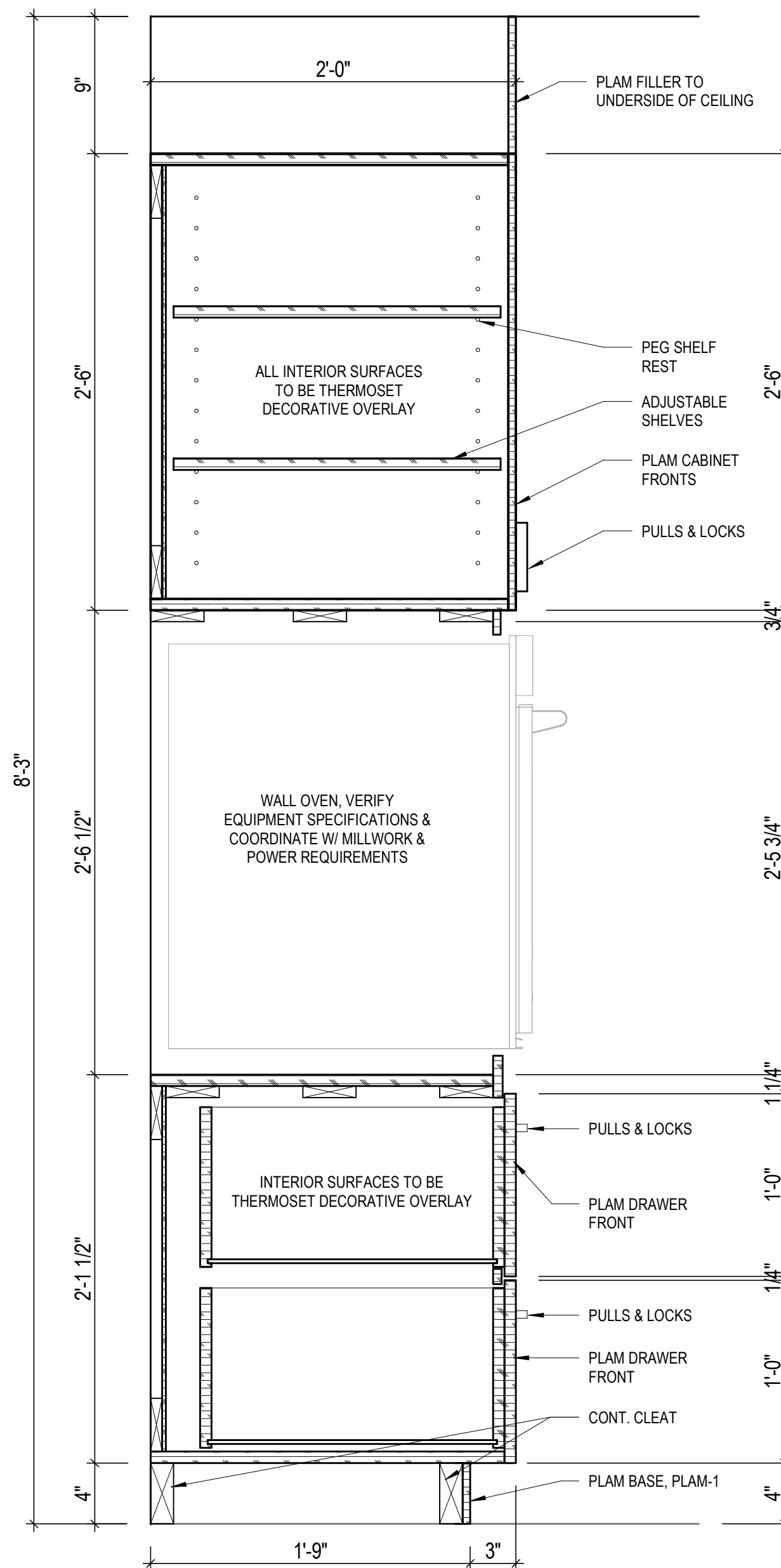
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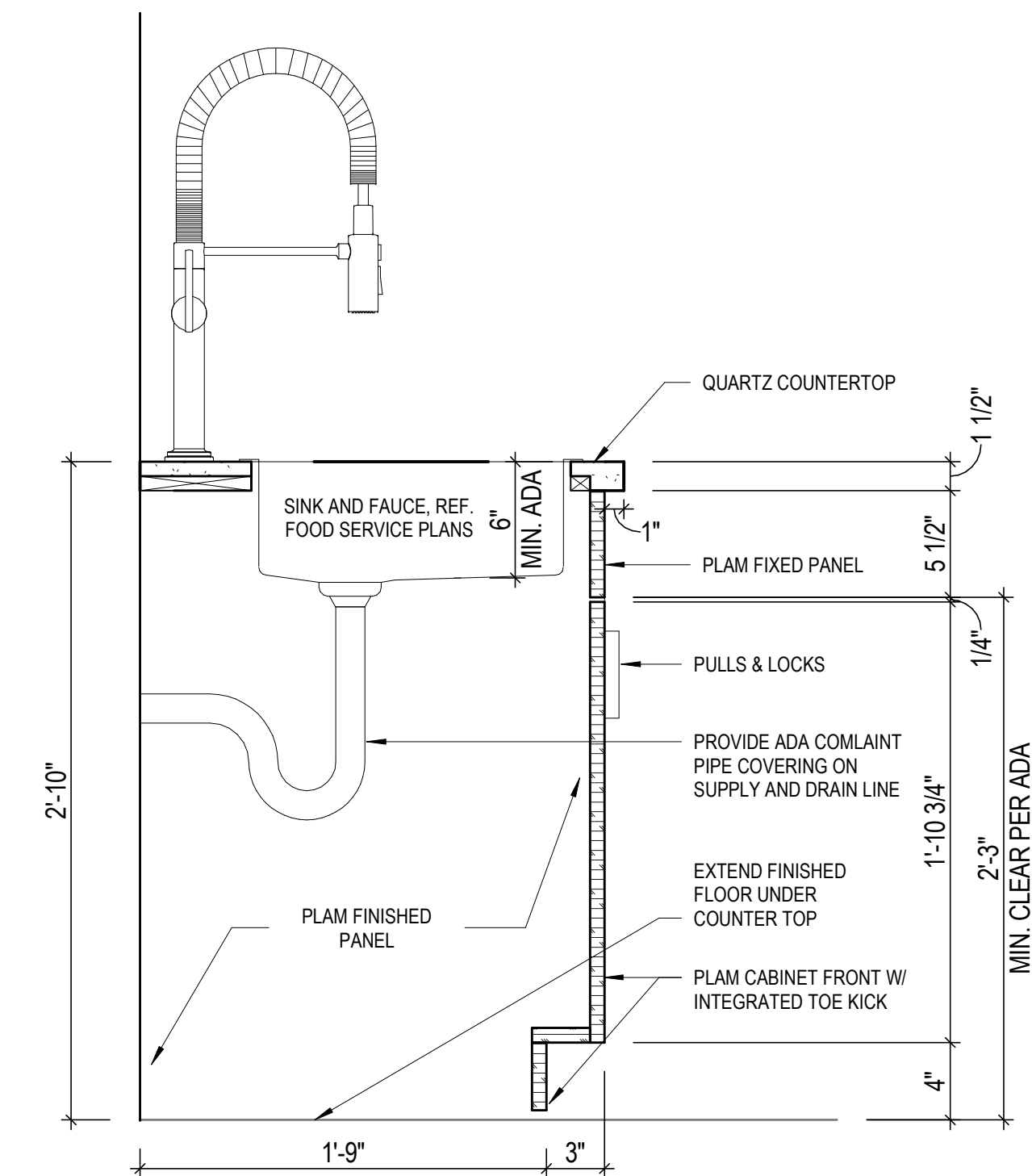
1 CASEWORK @ FRIDGE
SCALE: 1 1/2" = 1'-0"



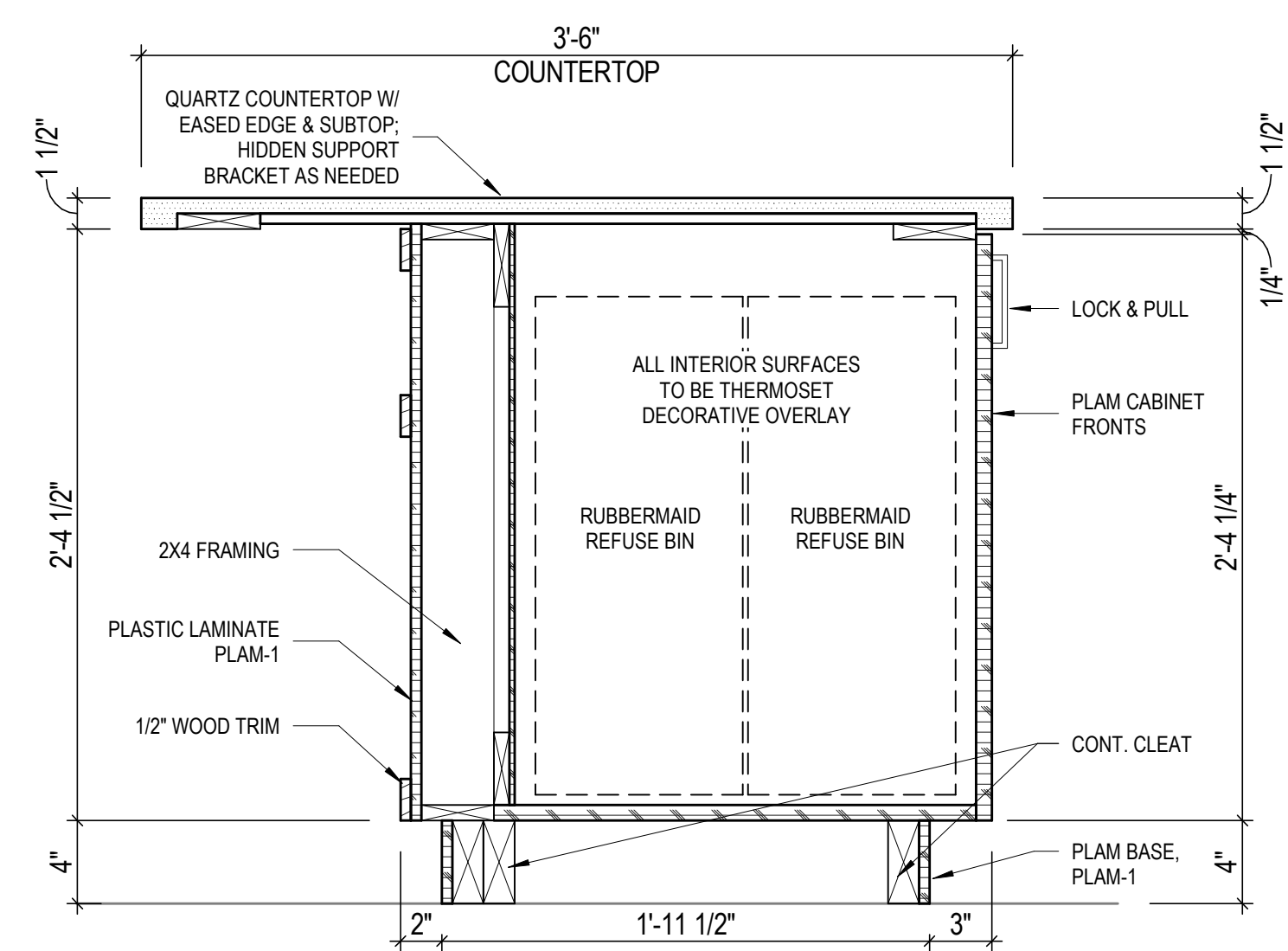
2 TYP. UPPER & LOWER CASEWORK
SCALE: 1 1/2" = 1'-0"



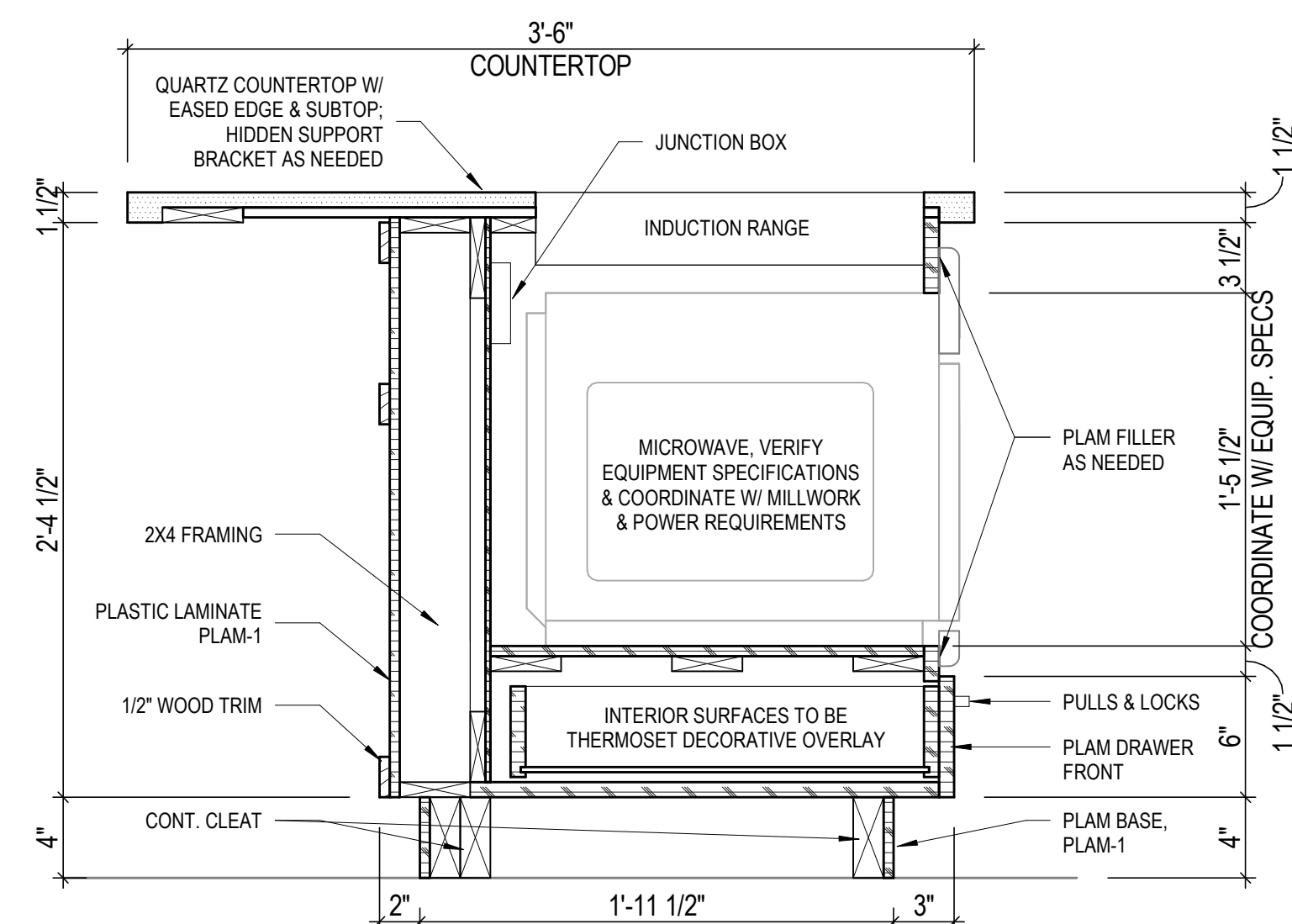
3 CASEWORK @ WALL OVEN
SCALE: 1 1/2" = 1'-0"



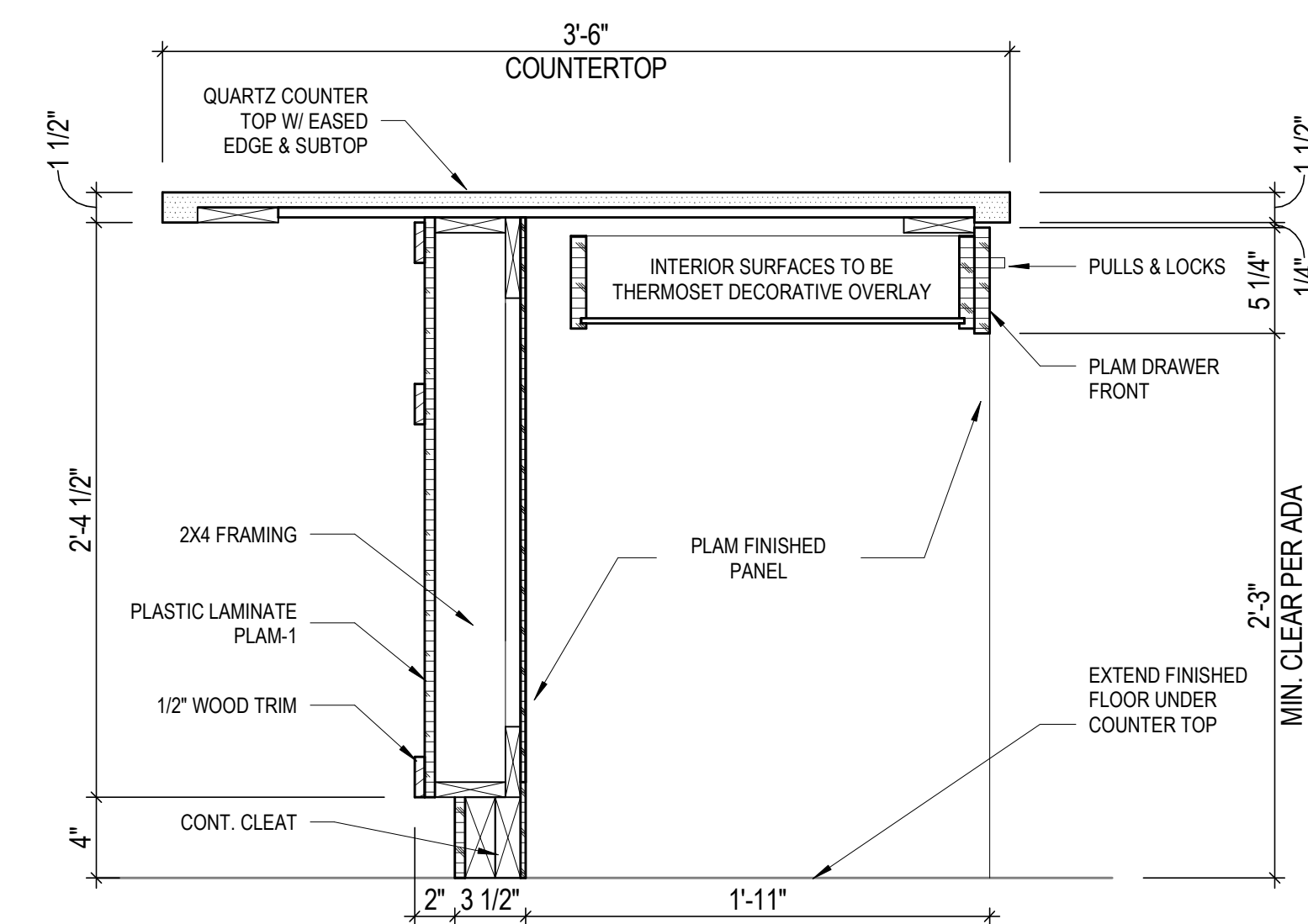
4 ADA SINK
SCALE: 1 1/2" = 1'-0"



5 ISLAND TRASH & RECYCLING CASEWORK
SCALE: 1 1/2" = 1'-0"



6 ISLAND STOVETOP & MICROWAVE CASEWORK
SCALE: 1 1/2" = 1'-0"



7 ISLAND WORKSPACE CASEWORK
SCALE: 1 1/2" = 1'-0"

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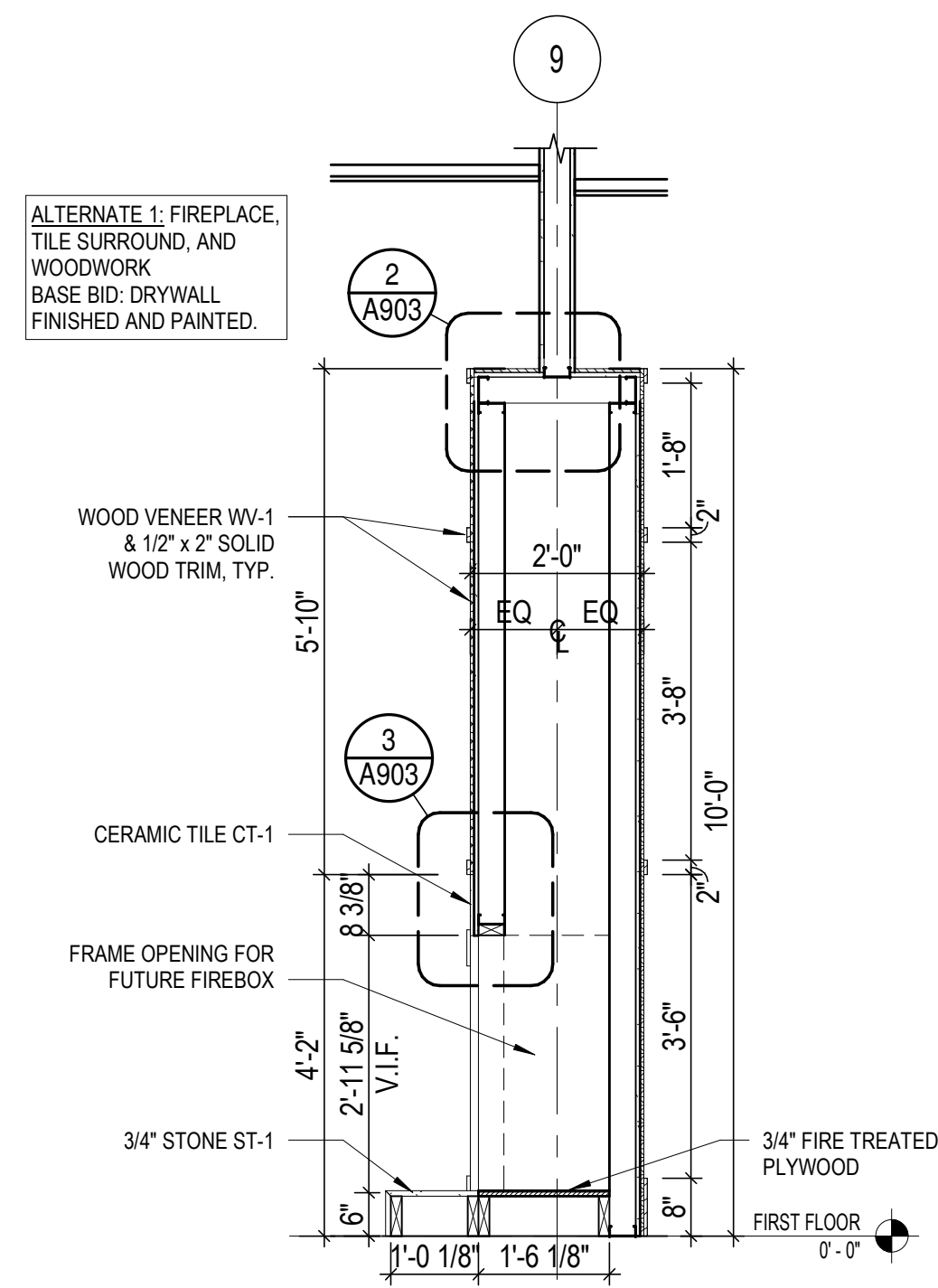
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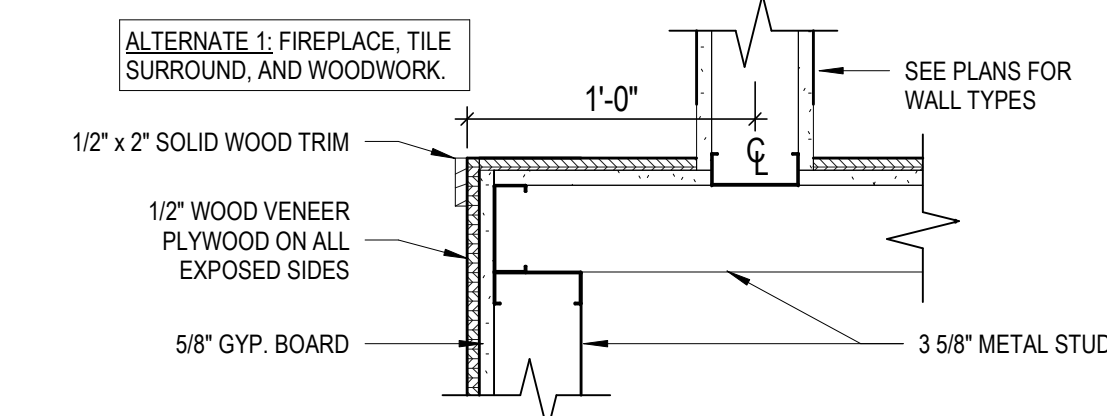
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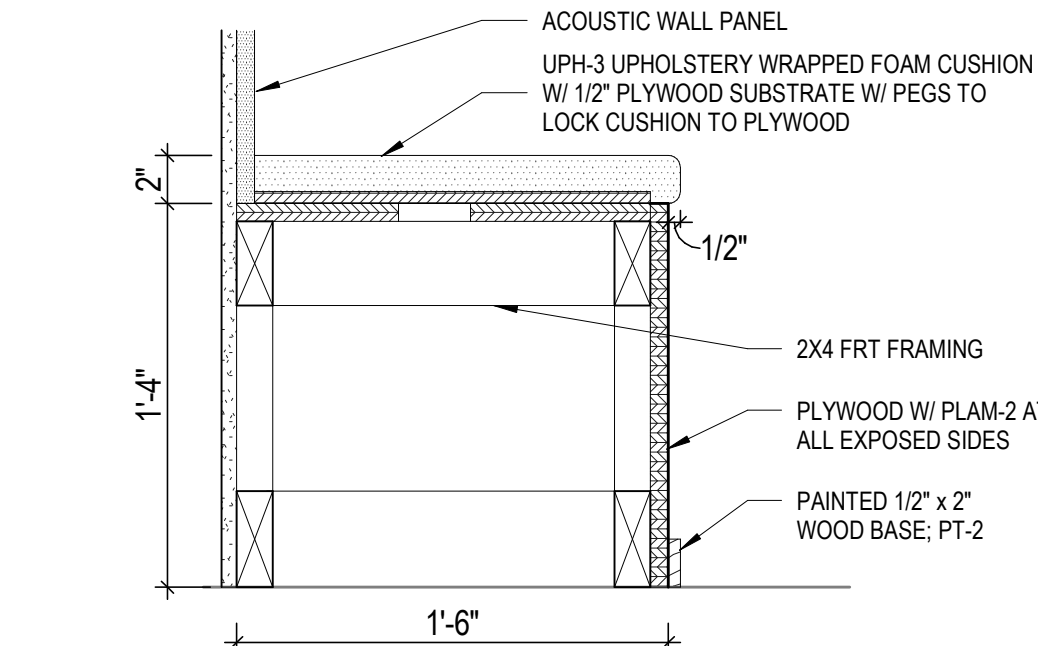
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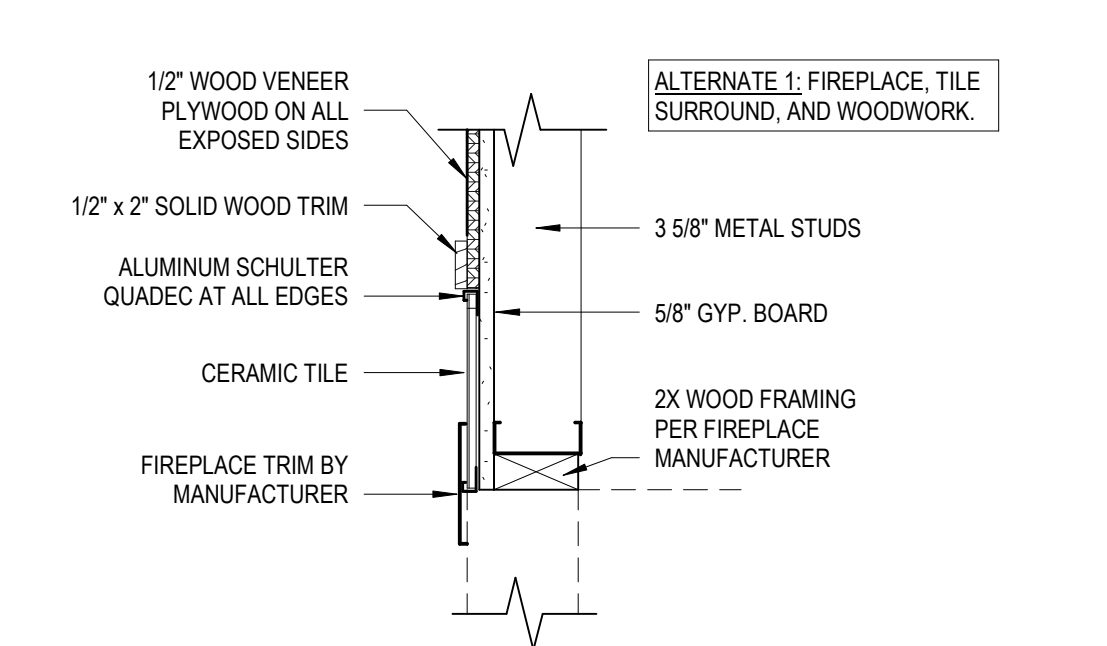
1 FIREPLACE SECTION
SCALE: 1/2" = 1'-0"



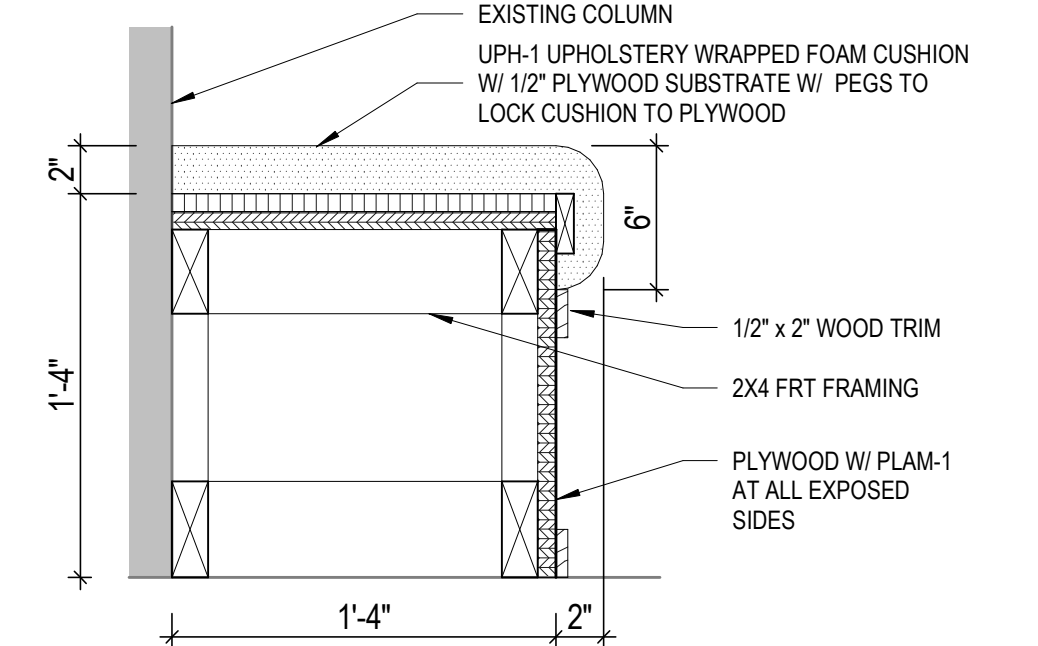
2 FIREPLACE WOODWORK DETAIL
SCALE: 1 1/2" = 1'-0"



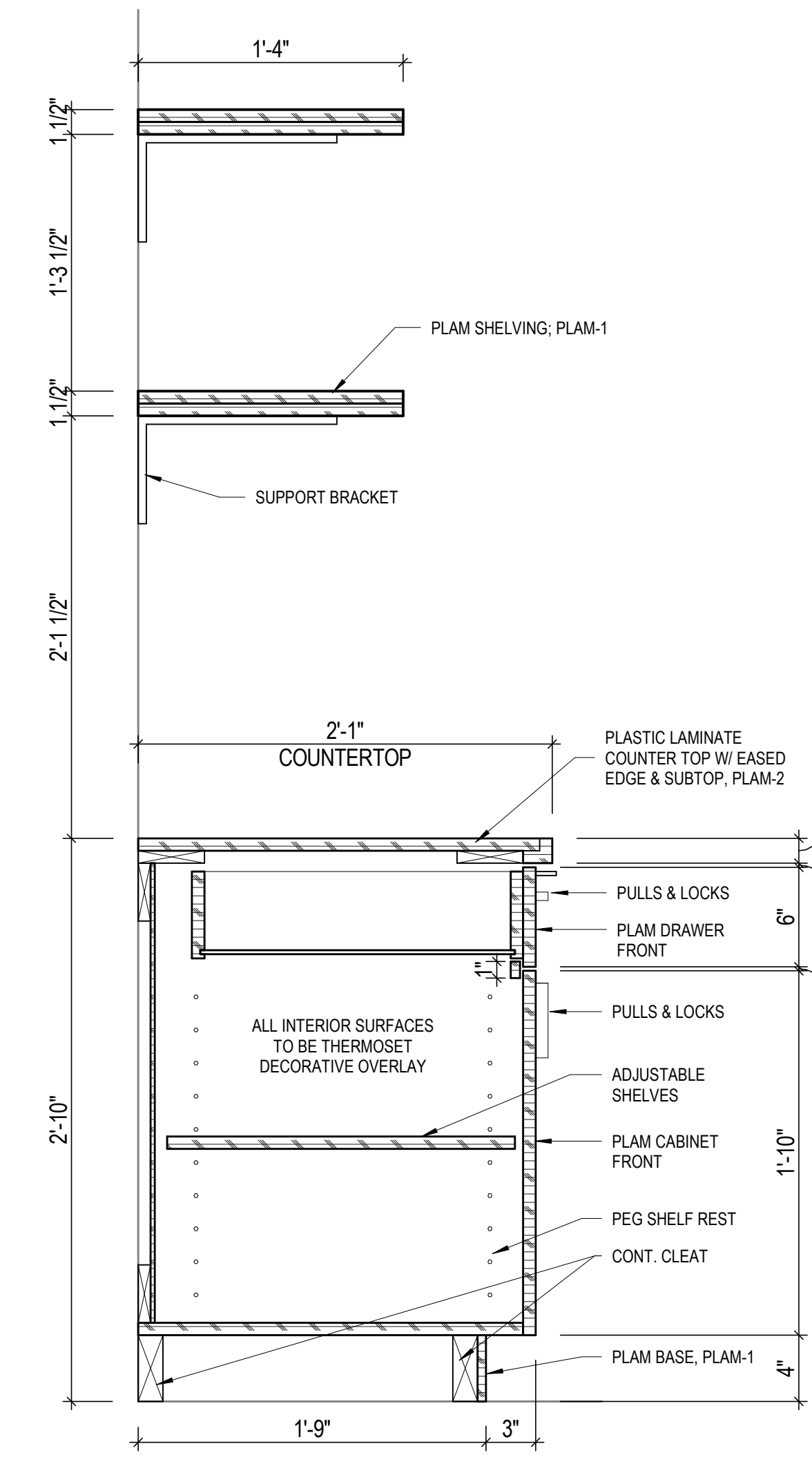
4 HALL BENCH DETAIL
SCALE: 1 1/2" = 1'-0"



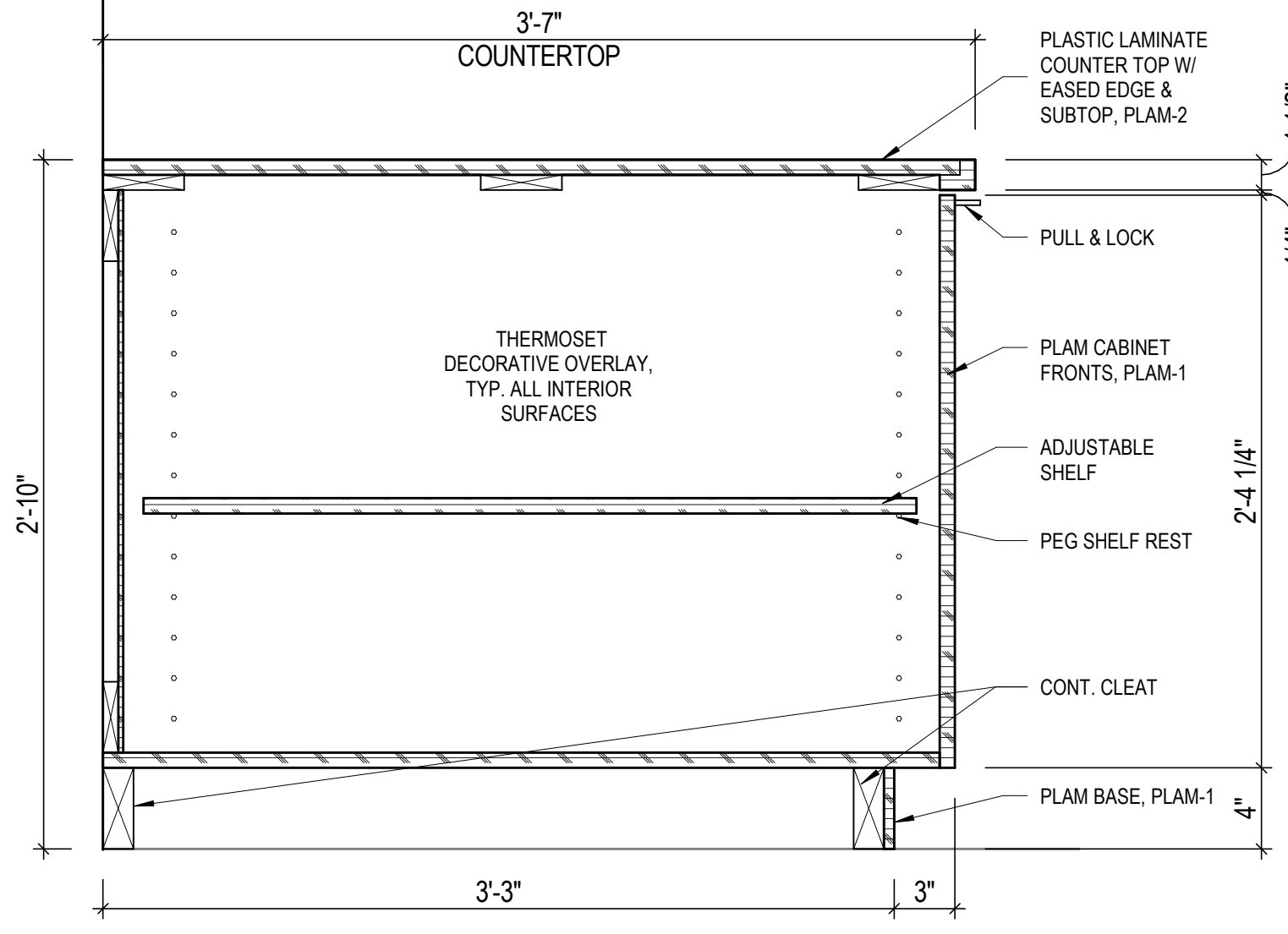
3 FIREPLACE SURROUND DETAIL
SCALE: 1 1/2" = 1'-0"



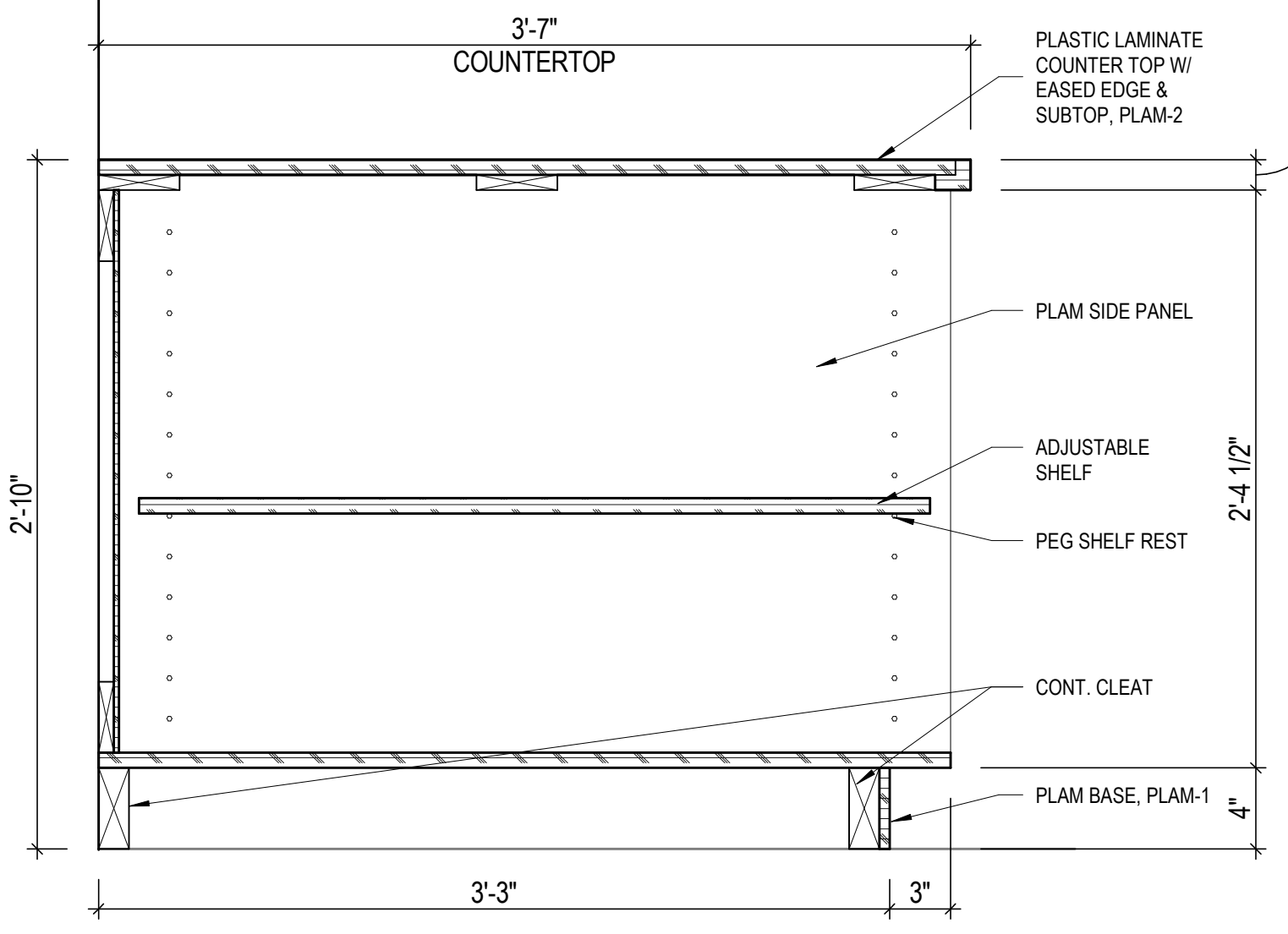
5 LOBBY BENCH - SECTION
SCALE: 1 1/2" = 1'-0"



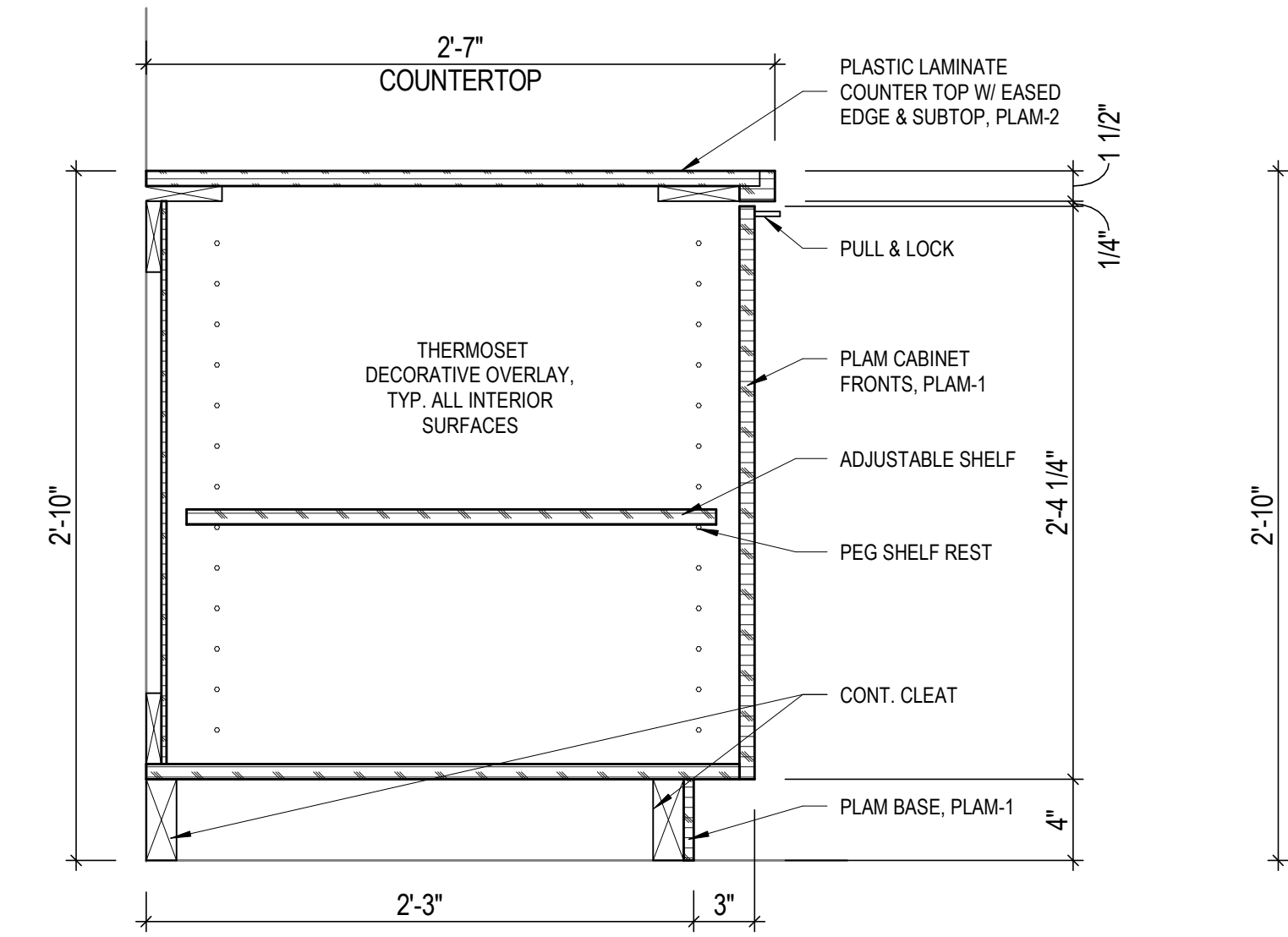
6 STAFF LOUNGE CASEWORK & SHELVING
SCALE: 1 1/2" = 1'-0"



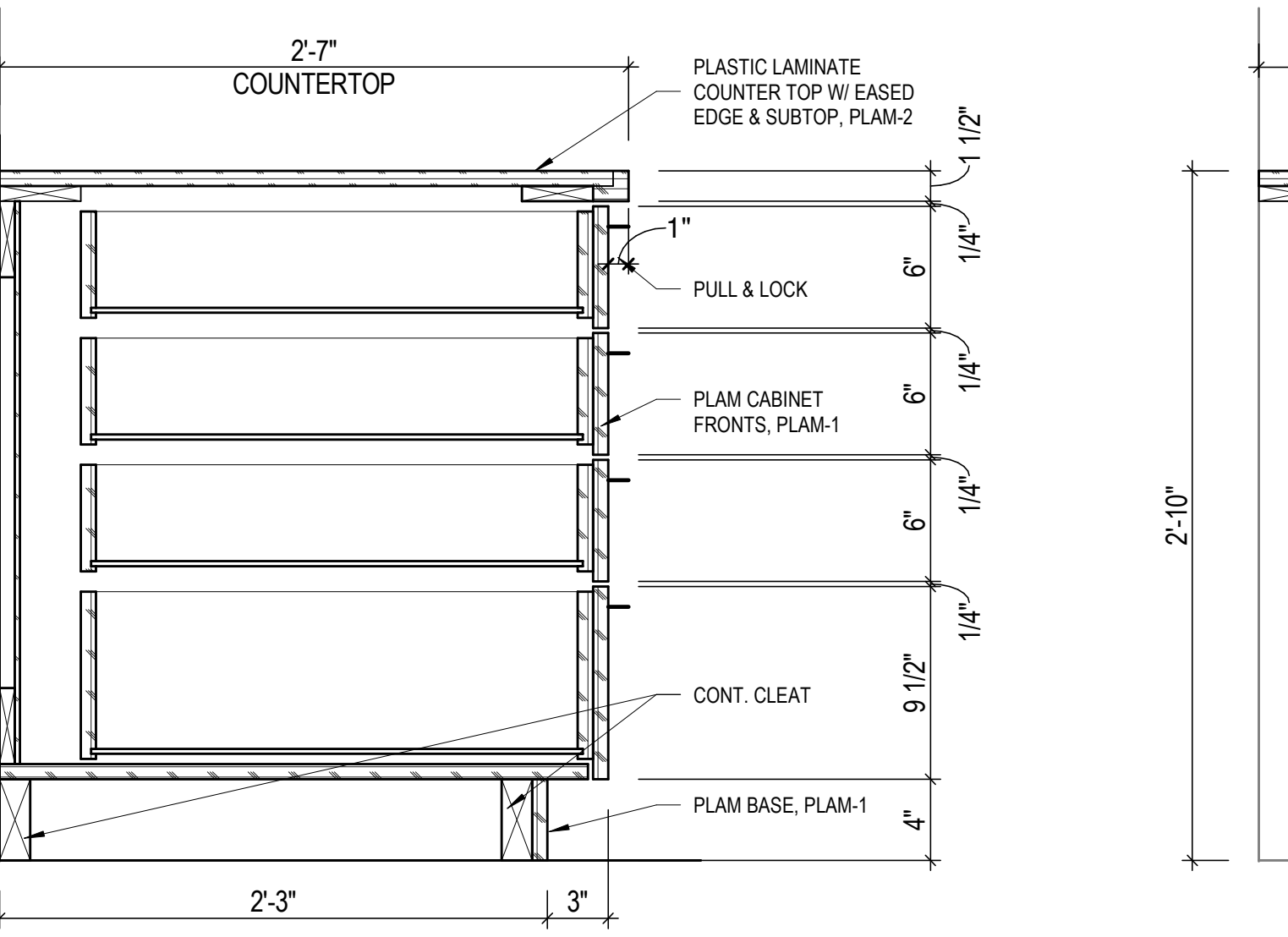
7 DIGITAL LAB - 42" CASEWORK
SCALE: 1 1/2" = 1'-0"



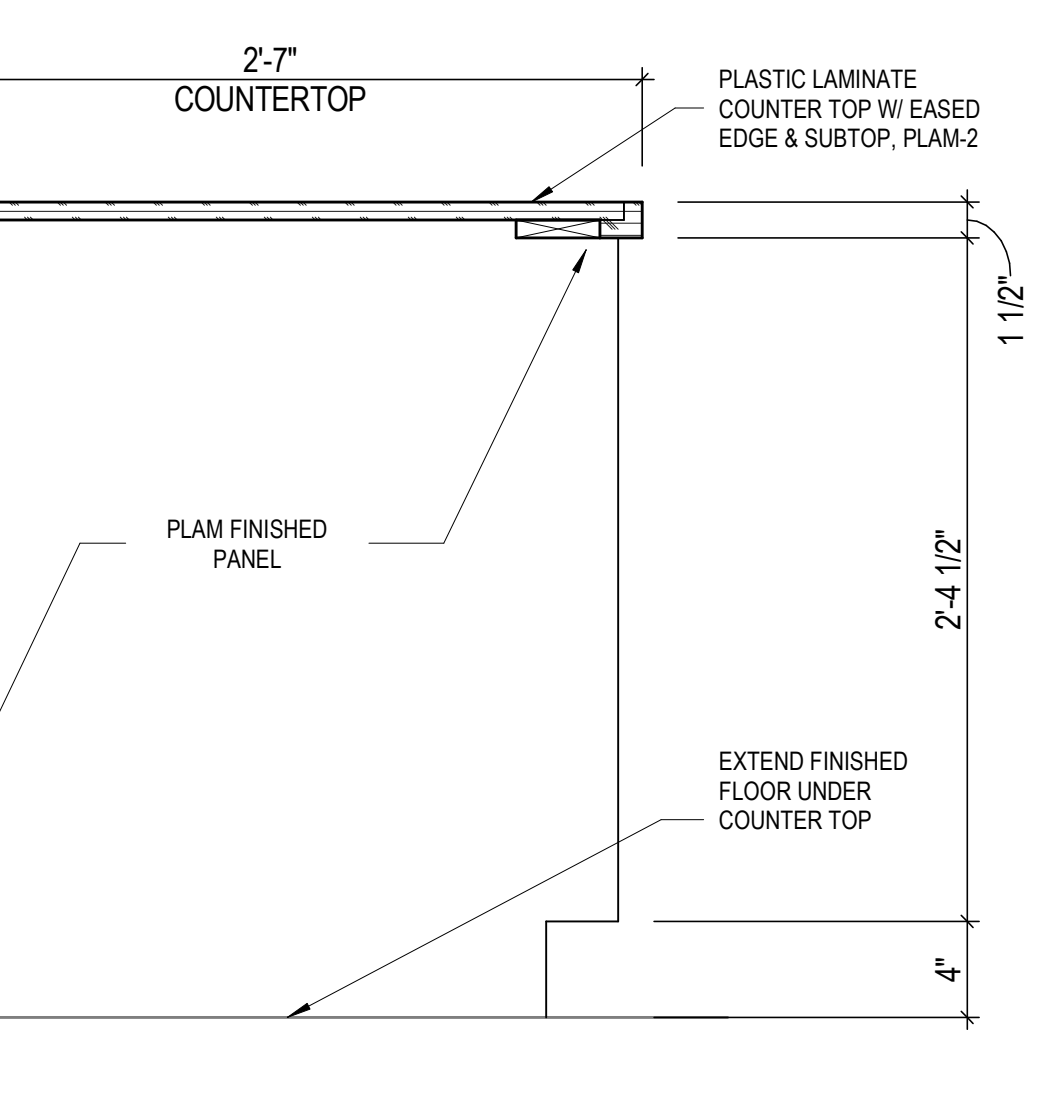
8 DIGITAL LAB - 42" OPEN CASEWORK
SCALE: 1 1/2" = 1'-0"



9 DIGITAL LAB - 30" CASEWORK
SCALE: 1 1/2" = 1'-0"



10 DIGITAL LAB - 4 DRAWER CASEWORK
SCALE: 1 1/2" = 1'-0"



11 DIGITAL LAB - COUNTERTOP
SCALE: 1 1/2" = 1'-0"

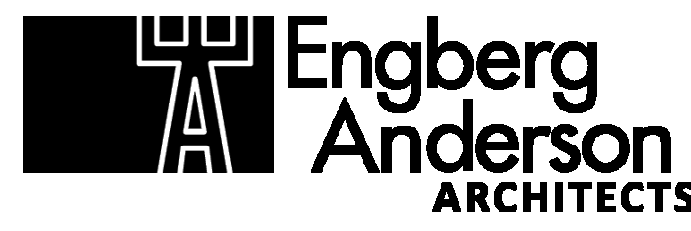
GENERAL MECHANICAL NOTES	
1. ALL WORK SHALL BE IN COMPLIANCE WITH STATE AND LOCAL CODES.	13. DUCT SIZES LISTED ON PLANS ARE THE REQUIRED CLEAR INTERIOR DIMENSIONS.
2. THE CONTRACTOR SHALL PAY FOR ALL FEES, PERMITS, LICENSES, ETC., NECESSARY FOR PROPER COMPLETION OF THE WORK.	14. SUPPLY AND RETURN BRANCH DUCTS MAY BE INSULATED FLEX DUCT IF THE RUN IS LESS THAN 5 FEET IN LENGTH. ANY LENGTHS OVER 5 FEET SHALL BE RIGID DUCTWORK. DUCT SHALL BE THE SAME SIZE AS THE LISTED DIFFUSER THROAT UNLESS NOTED OTHERWISE.
3. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.	15. PROVIDE VOLUME CONTROL DAMPERS WHERE INDICATED AND AT ALL TAKEOFFS, BOTH SUPPLY AND RETURN SYSTEMS, AND MAJOR DUCT RUNS. DAMPERS SHALL BE FACTORY-FABRICATED WITH ZINC-PLATED, DIE-CAST CONTROL HARDWARE. CONTROL HARDWARE SHALL INCLUDE HEAVY GAUGE DIAL AND HANDLE WITH ELEVATED PLATFORM FOR INSULATED DUCT MOUNTING.
4. VERIFY ALL EXISTING CONDITIONS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN CONTRACT DRAWINGS AND ACTUAL CONDITIONS.	16. PROVIDE TURNING VANES IN ALL RECTANGULAR ELBOWS CONFORMING TO SMACNA HVAC DUCT CONSTRUCTION STANDARD 2005 FIG. 4-2 TYPE RE-3 WITH STANDARD RADIUS, WHERE SPACE PERMITS, PROVIDE RADIUS ELBOWS IN ACCORDANCE WITH FIGURES 4-2, TYPE RE-1.
5. EXISTING UTILITIES TO BE ABANDONED SHALL BE PROPERLY DISCONNECTED AND CAPPED AS REQUIRED BY CODE OR LOCAL ORDINANCE.	17. ALL RECTANGULAR MAIN TO RECTANGULAR BRANCH CONNECTIONS, BOTH CONVERGING AND DIVERGING CONFIGURATIONS, SHALL HAVE A 45 DEG. ENTRY TAP CONSTRUCTED IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARD 2005 FIG. 4.6.
6. THESE DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. ADDITIONAL DATA SHALL BE FROM THE ENGINEER THROUGH WRITTEN CLARIFICATION ONLY. VERIFY ALL EXISTING CONDITIONS, ELEVATIONS, AND DIMENSIONS BEFORE PROCEEDING WITH ANY PORTION OF ANY WORK. THE CONTRACTOR SHALL PROVIDE ALL OFFSETS AND TRANSITIONS REQUIRED TO MEET EXISTING CONDITIONS.	18. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES TO PROTECT THE PUBLIC AND ADJACENT PROPERTIES FROM DAMAGE THROUGHOUT CONSTRUCTION.
7. THE CONTRACTOR SHALL PERFORM WORK IN A SKILLED AND PROFESSIONAL MANNER.	19. THE CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION OR AS OTHERWISE REQUIRED IN THE SPECIFICATIONS.
8. ALL CONTRACTORS ARE RESPONSIBLE TO FIELD COORDINATE WORK SCHEDULE WITH OWNER REPRESENTATIVE.	20. MECHANICAL CONTRACTOR TO INCLUDE THE TEST AND BALANCE, AND ANY PERMIT FEES IN THEIR BID.
9. THE CONTRACTOR SHALL WORK AND COORDINATE WITH THE OTHER TRADES.	21. UPON PROJECT COMPLETION, RECORD (AS-BUILT) DRAWINGS SHALL BE PROVIDED BY THE CONTRACTOR TO THE OWNER AND ENGINEER. ALL CHANGES IN PIPING AND DUCTWORK ARRANGEMENTS SHALL BE NOTED ON THE RECORD DRAWINGS.
10. ALL EQUIPMENT SHALL BE NEW AND IN UNDAMAGED CONDITION. ANY EQUIPMENT FOUND DEFECTIVE SHALL BE IMMEDIATELY REMOVED FROM THE PROJECT.	22. TEST AND BALANCE CONTRACTOR TO PERFORM A TOTAL REBALANCE ON ALL EXISTING SYSTEMS BEING MODIFIED.
11. CONTRACTOR SHALL SUBMIT A CERTIFIED REPORT INDICATING SYSTEM PERFORMANCE INCLUDING, BUT NOT LIMITED TO, VOLTAGE AND AMPERAGE MEASUREMENTS OF EACH COIL AND PUMP, AIR BALANCE MEASUREMENTS OF OUTSIDE AIR DELIVERY, AIR HANDLING UNIT SUPPLY, SUPPLY DIFFUSERS, EXHAUST AND RETURN GRILLES. AIR BALANCE SHALL BE WITHIN 10% OF DESIGN CONDITIONS. THE REPORT CERTIFICATION SHALL BE AS FOLLOWS: (name) of (company) CERTIFY THAT ALL MEASUREMENTS, FIGURES AND STATEMENTS INDICATED IN THIS REPORT WERE TAKEN BY ME OR UNDER MY SUPERVISION AND ARE ACCURATE AS OF (date). DESIGN FLOWS WERE BASED UPON PLANS DATED (3/22/2021).	23. TEST AND BALANCE CONTRACTOR TO ADJUST SETPOINT ON DP SENSOR FOR HOT WATER HEATING AND AIR HANDLING SYSTEM TO ACHIEVE FLOW REQUIREMENTS AT NEW VAVS.
12. DUCT MATERIAL SHALL BE GALVANIZED OR ALUMINUM CONSTRUCTED IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARD 2005 AND SMACNA HVAC AIR DUCT LEAKAGE MANUAL 2012 FOR THE PRESSURE AND SEAL CLASS LISTED IN THE PROJECT DUCTWORK/INSULATION SCHEDULE.	24. TEMPERATURE CONTROL CONTRACTOR TO UPDATED ALL EXISTING GRAPHICS ON BUILDING AUTOMATION SYSTEM TO REFLECT ADDED SYSTEMS AND UPDATED ROOM NUMBERS.

MECHANICAL HVAC LEGEND			
	EXHAUST AIR DUCT (DOWN)	ACC	AIR COOLED CHILLER
	EXHAUST AIR DUCT (UP)	AD	ACCESS DOOR
	RETURN AIR DUCT (DOWN)	AF	AIR FILTER
	RETURN AIR DUCT (UP)	AHU	AIR HANDLING UNIT
	OUTSIDE OR SUPPLY AIR DUCT (UP)	B	BOILER
	OUTSIDE OR SUPPLY AIR DUCT (DOWN)	BDD	BACK DRAFT DAMPER
	DUCT SIZE	BT	BUFFER TANK
	NEW DUCTWORK	CD	CEILING DIFFUSER
	FLEX DUCT	CR	CEILING REGISTER
	EXISTING DUCTWORK	EF	EXHAUST FAN
	DEMOLITION LINE TYPE	EG	EXHAUST GRILLE
	SUPPLY AIR CEILING DIFFUSER	ERV	ENERGY RECOVERY VENTILATOR
	CEILING DIFFUSER W/BLANKOFF	ET	DIAPHRAGM EXPANSION TANK
	RETURN AIR GRILLE	FD	FIRE DAMPER
	EXHAUST AIR GRILLE	H	HUMIDIFIER
DIFFUSER, GRILLE, AND REGISTER CALL-OUTS		HX	HEAT EXCHANGER
	CALL-OUT SIZE	L	LOUVER
	CALL-OUT CFM SIZE	MD	MOTOR OPERATED DAMPER
	MANUAL BALANCING DAMPER	NC	NORMALLY CLOSED
	PIPE PENETRATION THROUGH FIRE RATED WALL	NO	NORMALLY OPEN
	FIRE DAMPER (x=f)	OA	OUTSIDE AIR
	SMOKE DAMPER (x=s)	OED	OPEN END DUCT
	FIRE/SMOKE DAMPER (x=c)	RA	RETURN AIR
	MOTORIZED DAMPER	RF	RETURN FAN
	SCHEDULED EQUIPMENT TAG	RG	RETURN AIR GRILLE
	THERMOSTAT	RH	HOT WATER RE-HEAT
	HUMIDISTAT	RTU	ROOFTOP UNIT
	REMOTE SENSOR	SA	SUPPLY AIR
	DUCT SMOKE DETECTOR	SAT	SOUND ATTENUATORS
	NEW TO EXISTING	SF	SUPPLY FAN
		SG	SUPPLY GRILLE
		SR	SUPPLY REGISTER
		TG	TRANSFER GRILLE
		UH	UNIT HEATER

MECHANICAL PIPING LEGEND			
	DOUBLE ELBOW DOWN		DOUBLE ELBOW DOWN (AT CORNER)
	ELBOW DOWN		ELBOW UP
	TEE		TEE DOWN
	ELBOW		TEE UP
	ELBOW DOWN TO TEE		END CAP
	TYPICAL TEE CONNECTION (PLANS ONLY)		REDUCER
	AUTOMATIC AIR VENT		NEW TO EXISTING PIPE CONNECTION
	WATER FLOW MEASURING DEVICE		FLOW DIRECTION ARROW
	PIPE ANCHOR		MANUAL AIR VENT (MAV)
	PIPE GUIDE / SLEEVE		PRESSURE GAUGE
	BALANCING VALVE		UNION
	CIRCUIT SETTER		PRESSURE RELIEF VALVE
	PRESSURE REDUCING VALVE		PRESSURE/TEMPERATURE PORT
	BALL VALVE/SHUT-OFF VALVE		AIR SEPARATOR
	SILENT CHECK VALVE		PUMP
	GLOBE VALVE		OR PUMP
	TWO-WAY VALVE		FLEX CONNECTION
	THREE-WAY VALVE		THERMOMETER
	BUTTERFLY VALVE		COIL
	TRIPLE DUTY VALVE		PIPE VIEW
	SHUT-OFF COCK		ANALOG INPUT
	STRAINER		ANALOG OUTPUT
	STRAINER WITH BLOWDOWN		DIGITAL INPUT
	SUCTION DIFFUSER W/ STRAINER AND BLOWDOWN		DIGITAL OUTPUT
	DRAIN VALVE		
	FLOW CONTROL VALVE W/ PRESSURE DIFFERENTIAL SENSOR		
	DIFFERENTIAL PRESSURE SENSOR		

ABBREVIATIONS			
A	AMP	IN	INCH
ADD	ADDENDUM	INSUL	INSULATION
ADDL	ADDITIONAL	J-BOX	JUNCTION BOX
ADJ	ADJUSTABLE	LAT	LEAVING AIR TEMPERATURE
AF	ABOVE FINISH FLOOR	LB	POUND
AFS	ABOVE FINISH GRADE	LLT	LEAVING LIQUID TEMPERATURE
AHU	AIR HANDLER UNIT	LOC	LOCATION
AI	ANALOG INPUT	LV	LOW VOLTAGE
ALT	ALTERNATE	LWT	LEAVING WATER TEMPERATURE
ANNC	ANNUNCIATOR	MA	MAKE-UP AIR OR MIXED AIR
AO	ANALOG OUTPUT	MAX	MAXIMUM
APPRX	APPROXIMATE	MBH	1000 BTU PER HOUR
ARCH	ARCHITECT, ARCHITECTURAL	MC	MECHANICAL CONTRACTOR
BDD	BACK DRAFT DAMPER	MCA	MINIMUM CIRCUIT AMPS
BLDG	BUILDING	MECH	MECHANICAL
BI	BLACK IRON	MIN	MINIMUM
BOD	BOTTOM OF DUCTWORK	MFR	MANUFACTURER
BOP	BOTTOM OF PIPE	NFC	NOT FOR CONSTRUCTION
BSMT	BASEMENT	NIC	NOT IN CONTRACT
BTUH	BRITISH THERMAL UNIT PER HOUR	NTS	NOT TO SCALE
BTWN	BETWEEN	OA	OUTSIDE AIR
C	CENTER	OC	ON CENTER
CD	CEILING DIFFUSER	OED	OPEN END DUCT
CFM	CUBIC FEET PER MINUTE	OPNG	OPENING
CHAR	CHARACTERISTICS	OPP	OPPOSITE
CHWR	CHILLED WATER RETURN	P	PUMP
CHWS	CHILLED WATER SUPPLY	PC	PLUMBING CONTRACTOR
CI	CAST IRON	PERP	PERPENDICULAR
CIRC	CIRCUIT	PLBG	PLUMBING
CLR	CLEARLINE	PNL	PANEL
CLR	CLEAR	PPH	POUNDS PER HOUR
CO	CLEAN OUT	PRE	PRESSURE
COL	COLUMN	PSF	POUNDS PER SQUARE FOOT
COMP	COMPRESSOR	PSI	POUNDS PER SQUARE INCH
CONC	CONCRETE	PSIG	POUNDS PER SQUARE INCH GAUGE
COND	CONDENSATE	PWR	POWER
CONT	CONTINUOUS	QTY	QUANTITY
COP	COEFFICIENT OF PERFORMANCE	R	RADIUS
CHW	CHILLED WATER	RA	RETURN AIR
DB	DRY BULB	RD	ROOF DRAIN
DEG	DEGREE	REL	RELIEF
DEPT	DEPARTMENT	REOD	REQUIRED
DET	DETAIL	REV	REVERSE OR REVISION
DF	DRINKING FOUNTAIN	RG	RETURN AIR GRILLE
DG	DOOR GRILLE	RPM	REVOLUTIONS PER MINUTE
DI	DIGITAL INPUT	RTU	ROOF TOP UNIT
DIA OR Ø	DIAMETER	SA	SUPPLY AIR
DM	DIMENSION	SAN	SANITARY
DN	DOWN	SCH	SCHEDULE
DO	DIGITAL OUTPUT	SECT	SECTION
DW	DEIONIZED WATER	SEP	SEPARATOR
DWG	DRAWING	SF	SQUARE FEET
EA	EXHAUST AIR	SG	SUPPLY GRILLE
FCO	FLOOR CLEANOUT	SHT	SHEET
FD	FLOOR DRAIN	SHWR	SHOWER
FLR	FLOOR	SIM	SIMILAR
FPM	FEET PER MINUTE	SP	STATIC PRESSURE
FT	FOOT (FEET)	SPEC	SPECIFICATIONS
GA	GALVE/GAGE	SQ	SQUARE
GAL	GALLON	SS	STAINLESS STEEL
GALV	GALVANIZED	T&B	TEST AND BALANCE OR TOP AND BOTTOM
GC	GENERAL CONTRACTOR	T&P	TEMPERATURE AND PRESSURE RELIEF VALVE
GPM	GALLONS PER MINUTE	TEMP	TEMPERATURE OR TEMPORARY
GYP	GYPSONUM	TG	TRANSFER GRILLE
HB	HOSE BIB	TYP	TYPICAL
HORIZ	HORIZONTAL	UNO	UNLESS NOTED OTHERWISE
HP	HORSEPOWER	V	VOLT
HT	HEIGHT	VAR	VARIABLE OR VARIES
HW	HOT WATER	VEL	VELOCITY
HWR	HOT WATER RETURN	VERT	VERTICAL
HWS	HOT WATER SUPPLY	VFD	VARIABLE FREQUENCY DRIVE
IO	INPUT/OUTPUT	VOL	VOLUME
IA	INSTRUMENT AIR	VS	VENT STACK
IE	INVERT ELEVATION	VTR	VENT THRU ROOF
		W/	WITH
		WIN	WITHIN
		W/O	WITHOUT
		WB	WET BULB
		WC	WATER COLUMN (INCHES OF)
		WCO	WALL CLEANOUT
		WG	WATER GAUGE
		WOG	WATER, OIL, GAS
		WP	WEATHER PROOF
		WP	WORKING PRESSURE
		WT	WEIGHT

MECHANICAL SHEET INDEX	
M001	MECHANICAL NOTES, LEGENDS & ABBREVIATIONS
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MD102	SECOND FLOOR MECHANICAL DEMOLITION PLAN
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M501	MECHANICAL DETAILS
M502	MECHANICAL DETAILS
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M504	MECHANICAL DETAILS
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M802	KITCHEN HOOD
M803	KITCHEN HOOD
M804	KITCHEN HOOD
M805	KITCHEN HOOD
M806	KITCHEN HOOD
M807	KITCHEN HOOD
M808	KITCHEN HOOD



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MECHANICAL NOTES, LEGENDS & ABBREVIATIONS

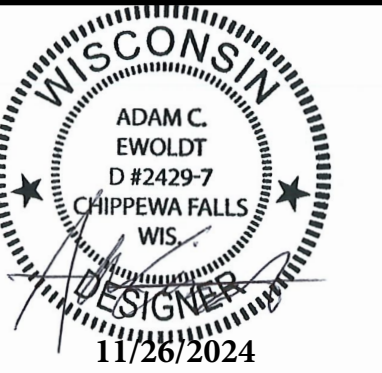
M001

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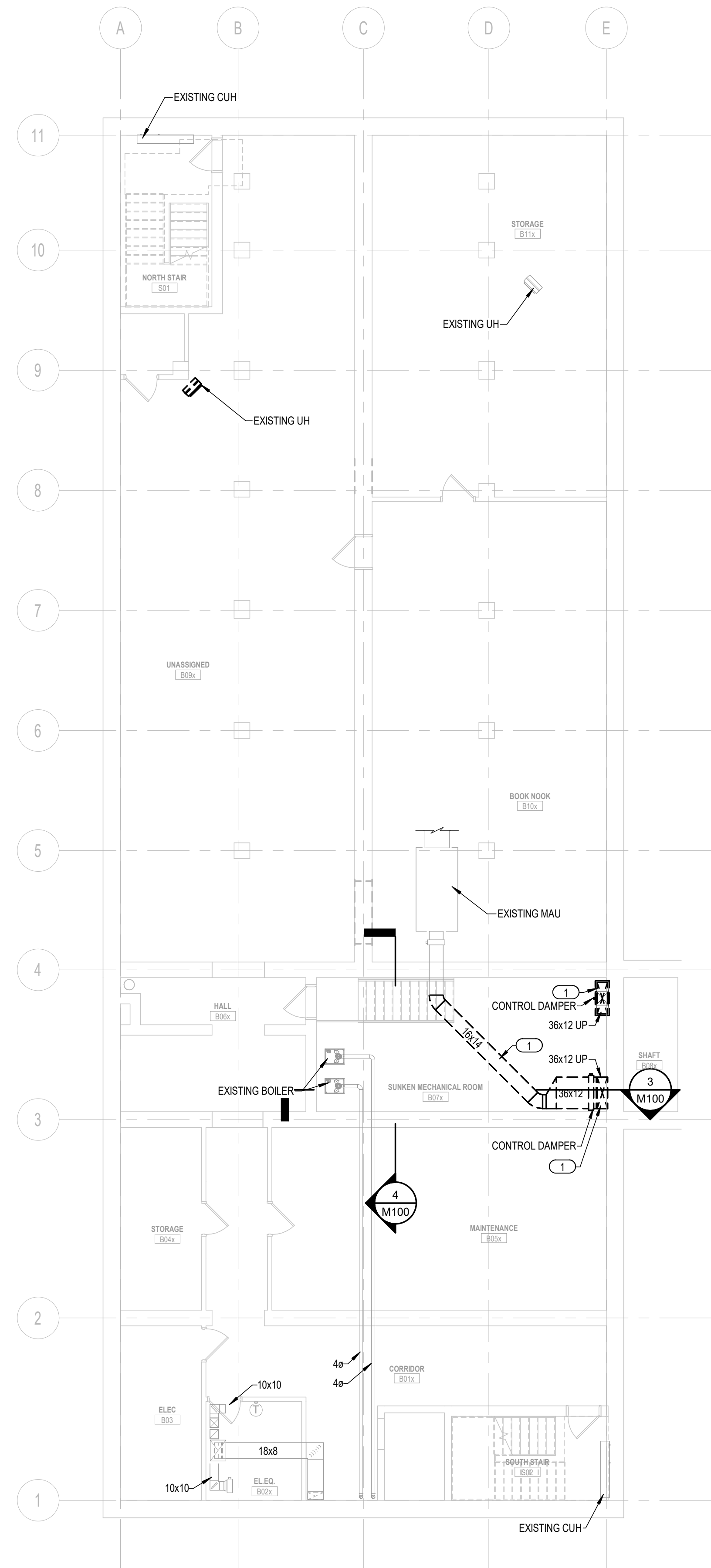
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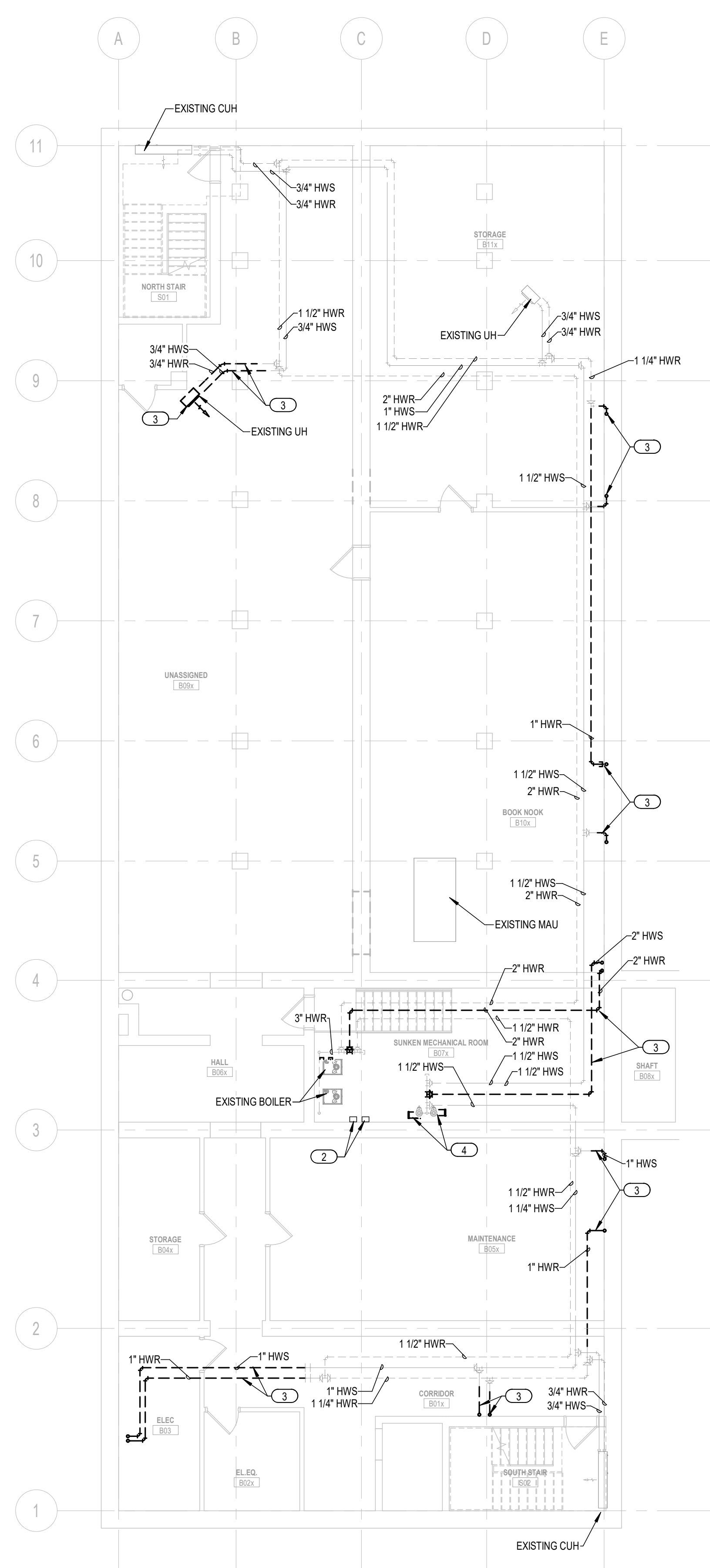
**BASEMENT
MECHANICAL
DEMOLITION PLAN**

MD100

KEYED NOTES	
1	REMOVE DUCTWORK AND ALL ASSOCIATED SUPPORTS DASHED AND IN BOLD.
2	REMOVE HOT WATER SECONDARY PUMP MOTOR STARTERS DASHED AND IN BOLD.
3	REMOVE HOT WATER PIPE AND ASSOCIATED SUPPORTS DASHED AND IN BOLD. CAP PIPE ENDS WHERE PIPE IS SHOWN REMOVED.
4	REMOVED HOT WATER PUMPS AND ASSOCIATED CONTROLS DASHED AND IN BOLD.



1 BASEMENT DUCTWORK DEMOLITION PLAN
1/8" = 1'-0"



2 BASEMENT PIPING DEMOLITION PLAN
1/8" = 1'-0"

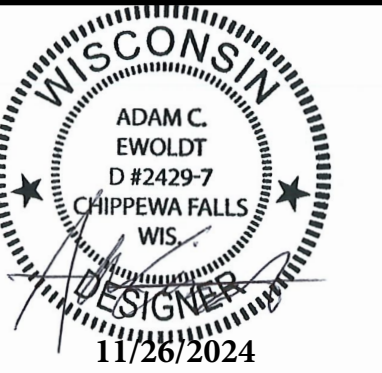


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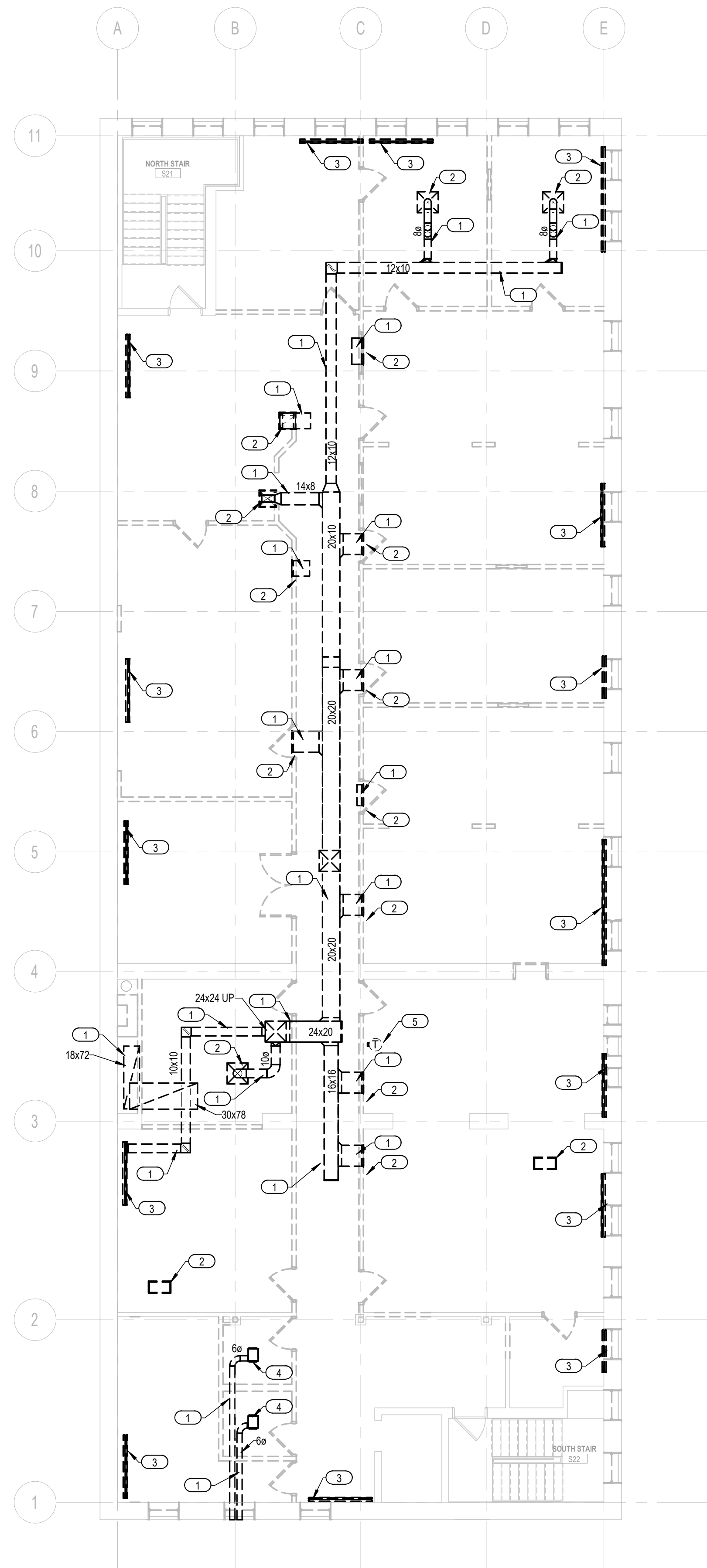
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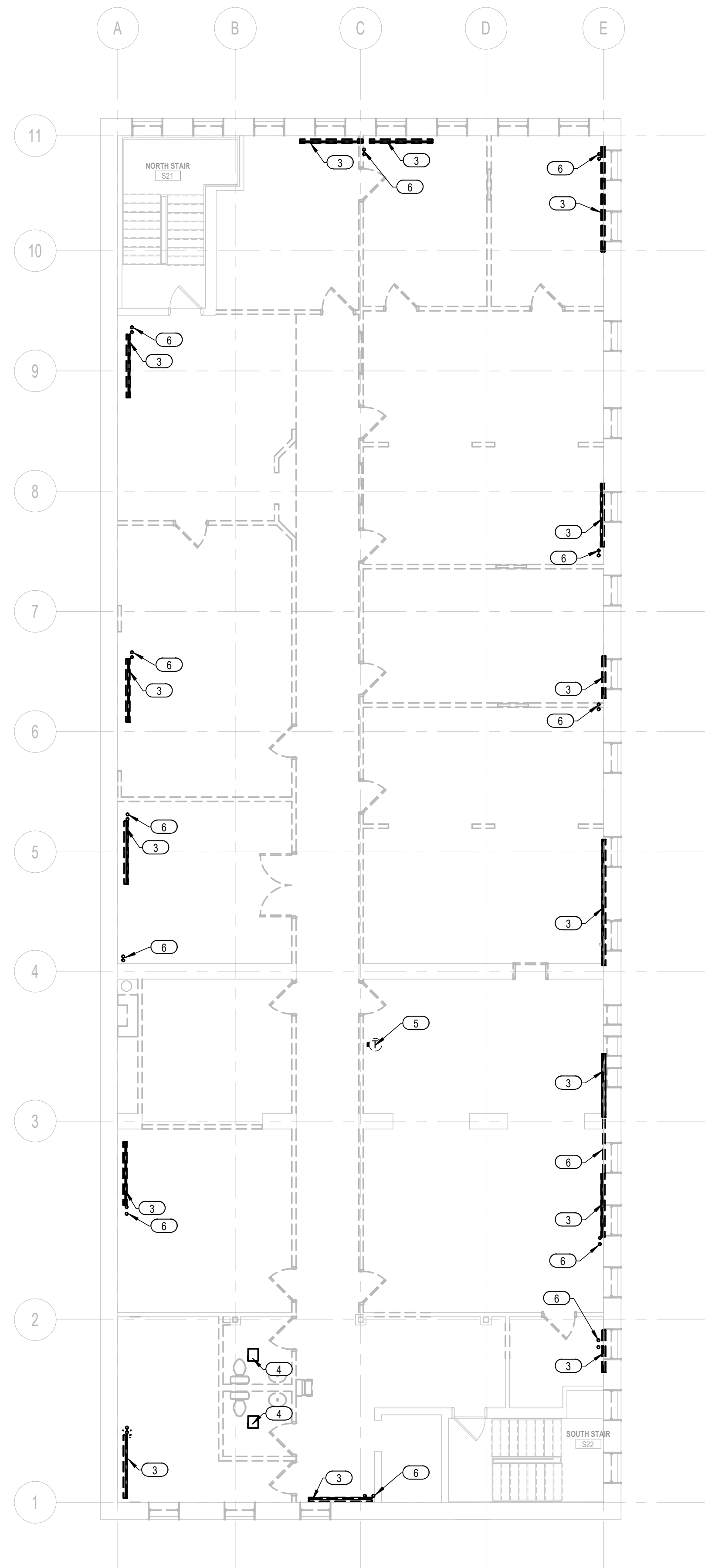
**SECOND FLOOR
MECHANICAL
DEMOLITION PLAN**

MD102

KEYED NOTES	
1	REMOVE DUCTWORK AND ASSOCIATED HANGERS DASHED AND IN BOLD.
2	REMOVE DIFFUSERS AND GRILLES DASHED AND IN BOLD.
3	REMOVE RADIANT HEATING UNITS DASHED AND IN BOLD.
4	REMOVE CEILING EXHAUST FAN AND ASSOCIATED CONTROLS DASHED AND IN BOLD.
5	REMOVE THERMOSTATS AND ASSOCIATED CONTROL WIRE DASHED AND IN BOLD.
6	REMOVE HOT WATER PIPE AND ASSOCIATED HANGERS DASHED AND IN BOLD.



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



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

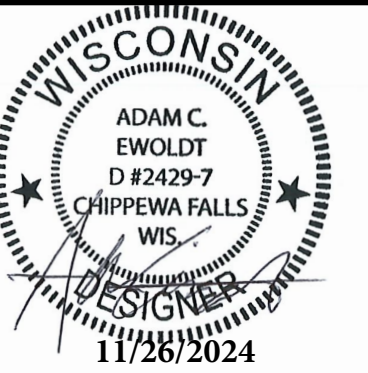


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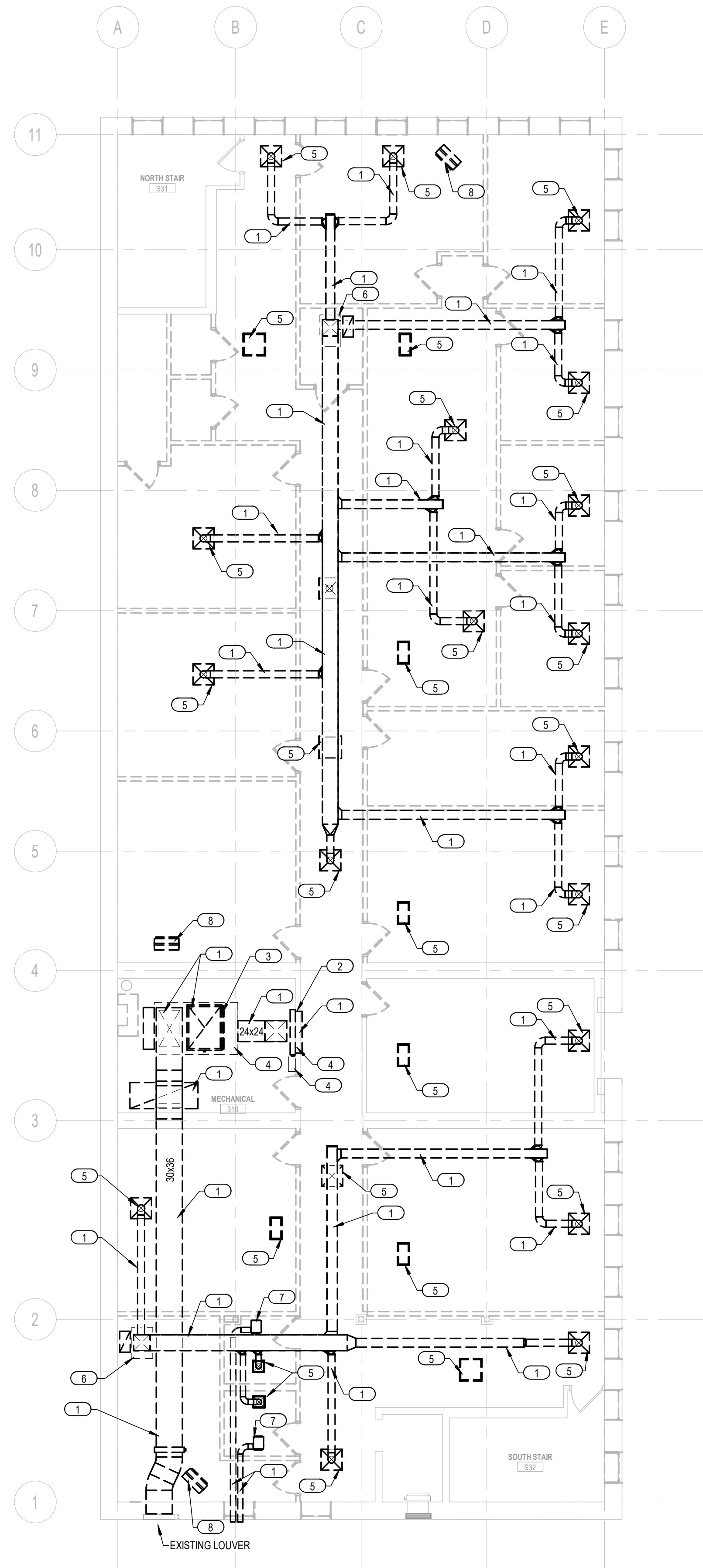
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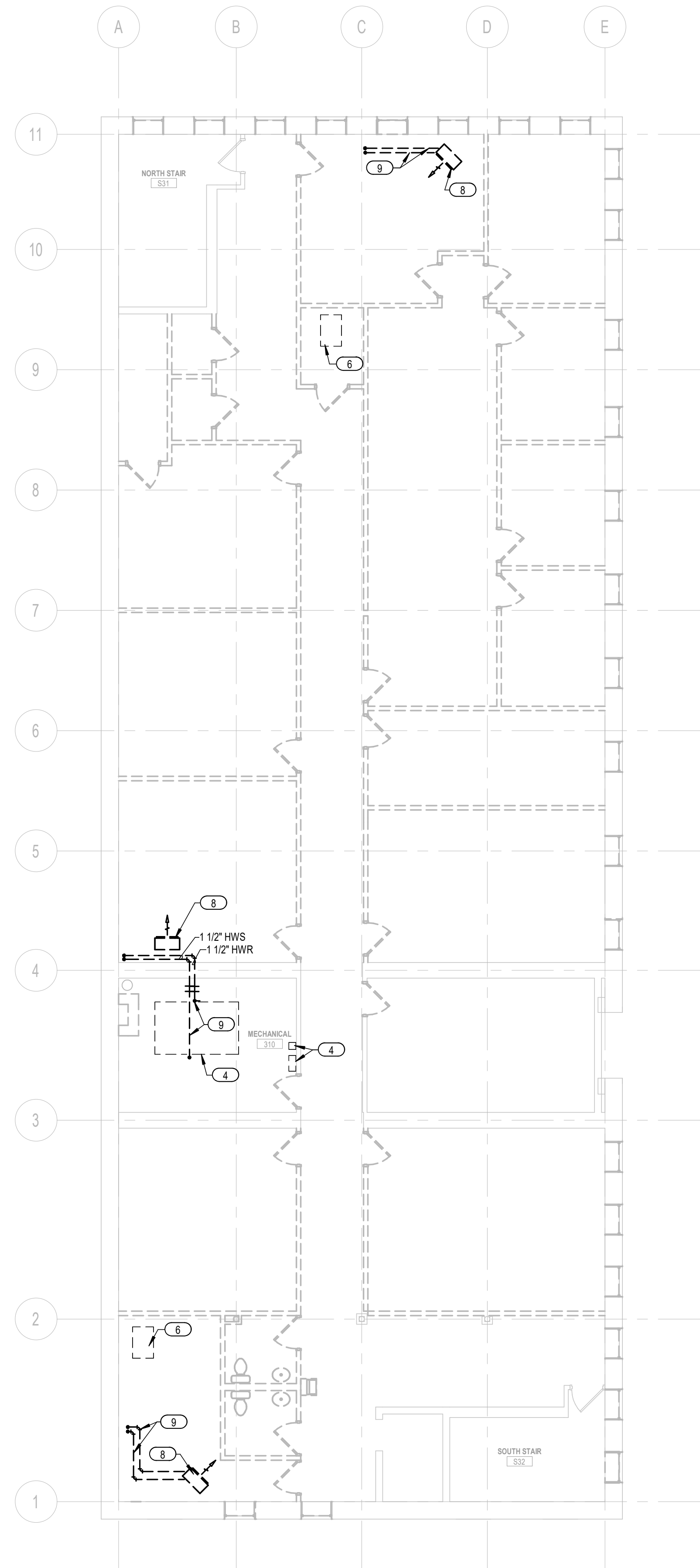
**THIRD FLOOR
MECHANICAL
DEMOLITION PLAN**

MD103

KEYED NOTES	
1	REMOVE DUCTWORK AND ASSOCIATED HANGERS DASHED AND IN BOLD.
2	REMOVE DAMPER DASHED AND IN BOLD.
3	REMOVE RELIEF GRILLE, DAMPER, AND ASSOCIATED HOOD ON ROOF DASHED AND IN BOLD.
4	REMOVE AIR HANDLING UNIT AND ASSOCIATED CONTROLS DASHED AND IN BOLD.
5	REMOVE DIFFUSERS AND GRILLES DASHED AND IN BOLD.
6	REMOVE FURNACE, OUTDOOR CONDENSING UNIT, REFRIGERANT PIPE, AND ASSOCIATED CONTROLS DASHED AND IN BOLD.
7	REMOVE CEILING EXHAUST FAN DASHED AND IN BOLD.
8	REMOVE UNIT HEATER, ASSOCIATED CONTROLS, AND ASSOCIATED HOT WATER PIPE DASHED AND IN BOLD.
9	REMOVE HOT WATER PIPE AND ASSOCIATED HANGERS DASHED AND IN BOLD.



1 THIRD FLOOR DUCTWORK DEMOLITION PLAN
1/8" = 1'-0"



2 THIRD FLOOR PIPING DEMOLITION PLAN
1/8" = 1'-0"

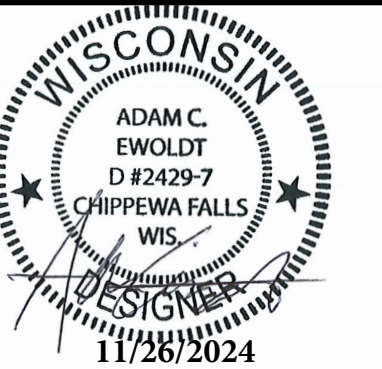


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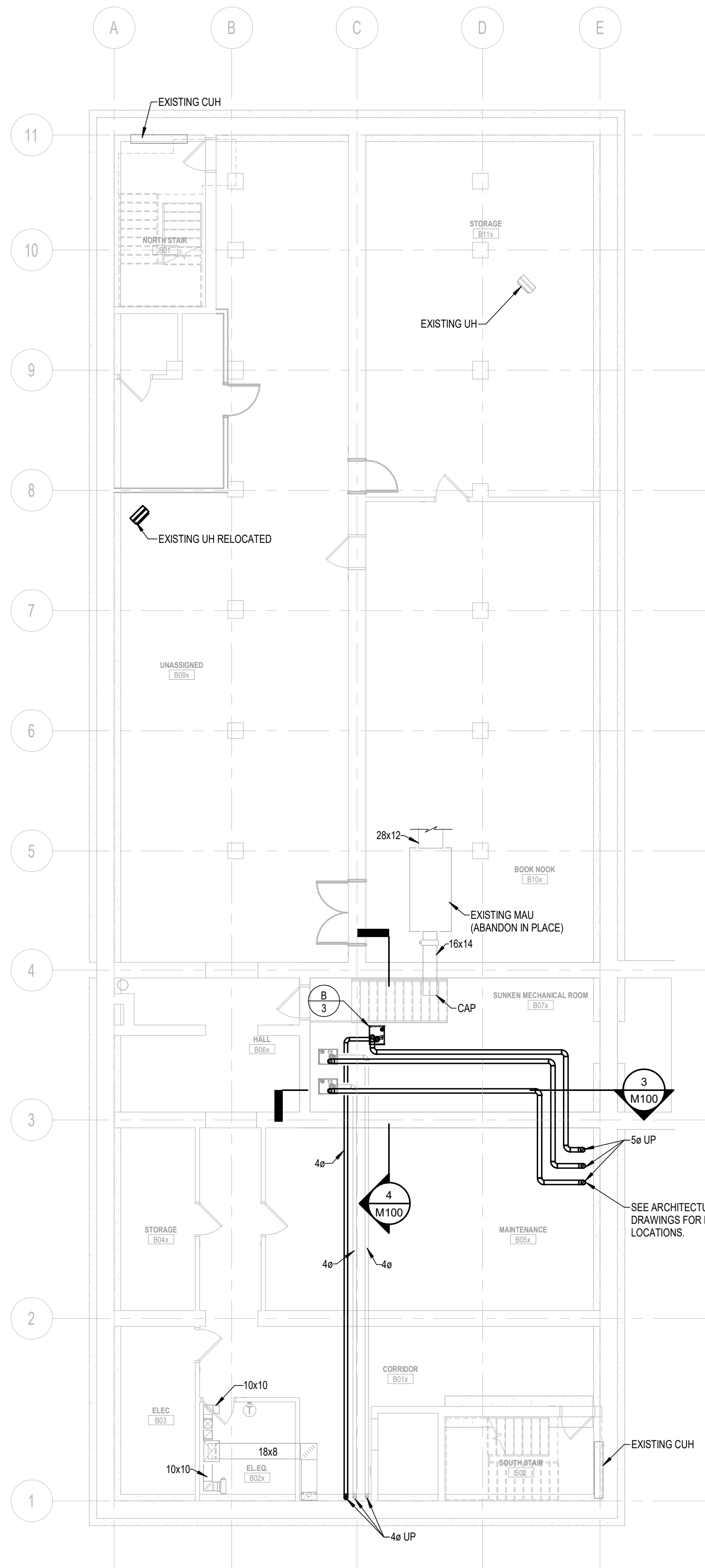


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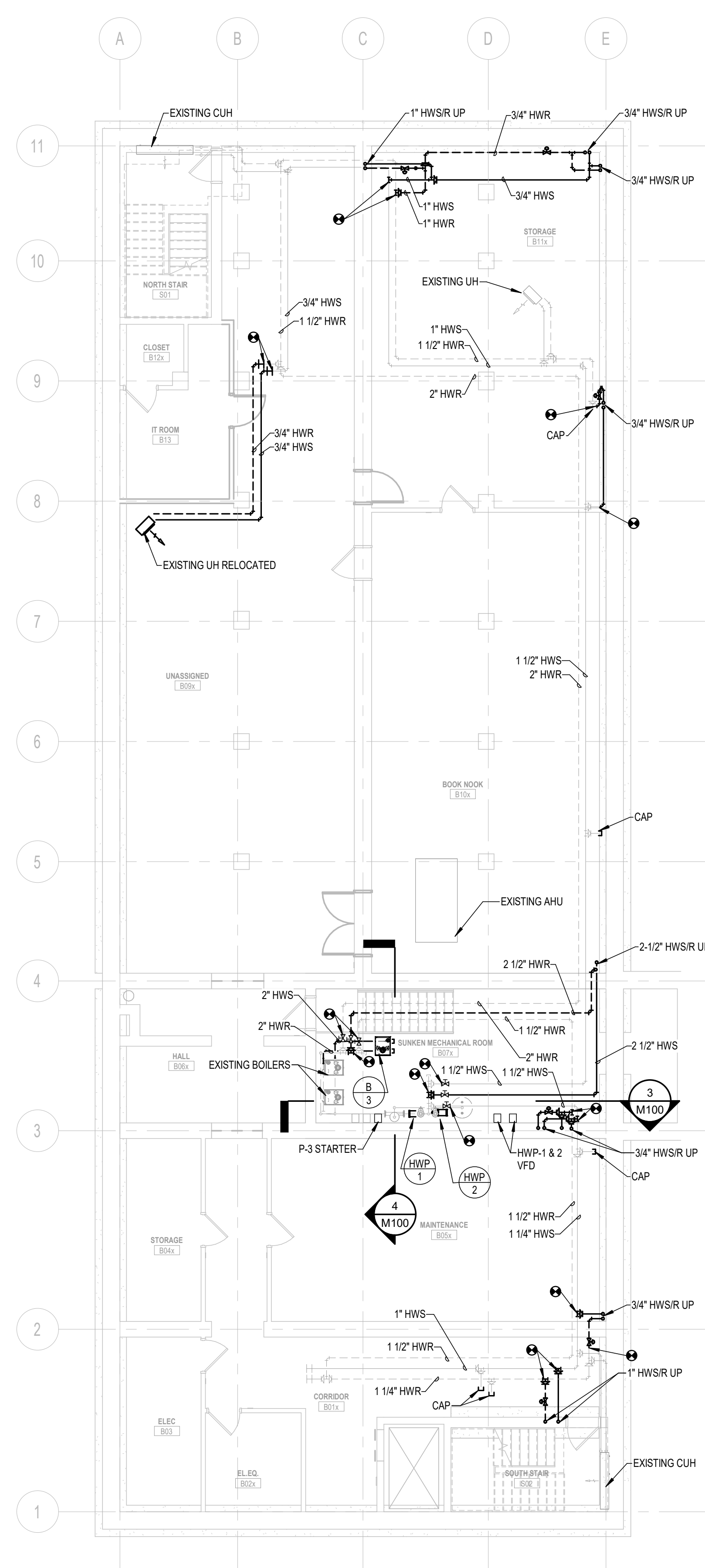
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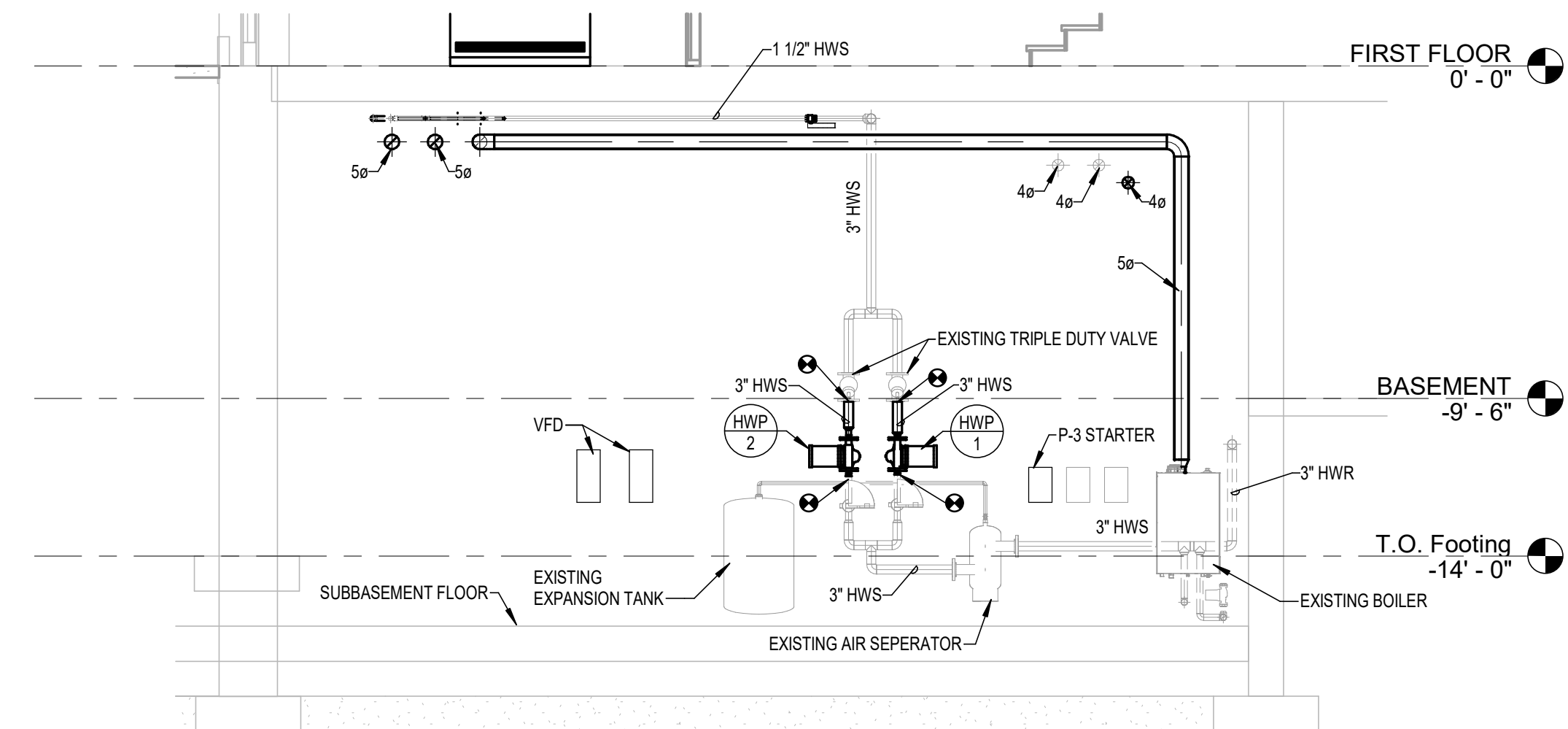
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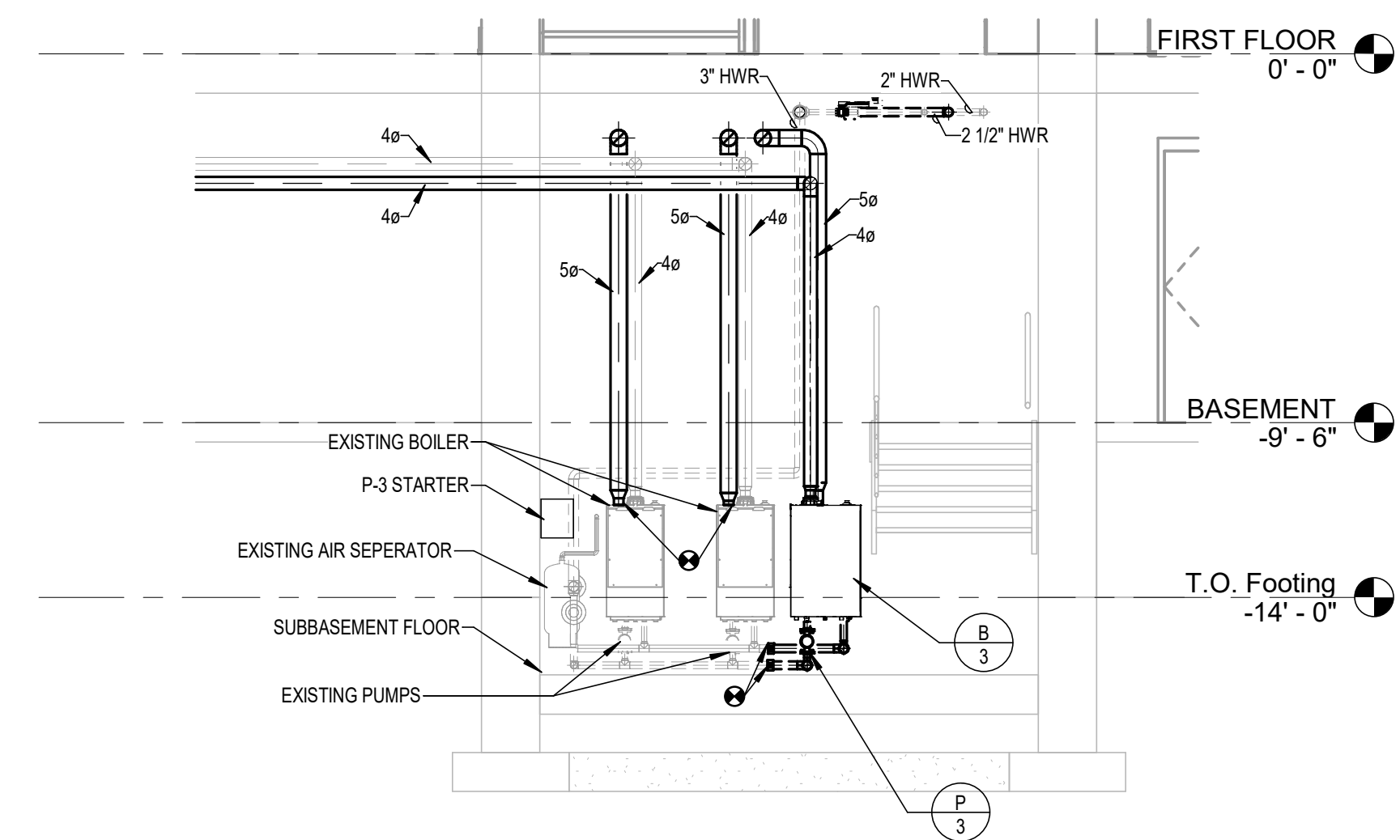
1 BASEMENT DUCTWORK PLAN
1/8" = 1'-0"



2 BASEMENT PIPING PLAN
1/8" = 1'-0"



3 MECHANICAL ROOM SECTION PUMP RISER
1/4" = 1'-0"



4 MECHANICAL ROOM SECTION BOILER RISER
1/4" = 1'-0"

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**BASEMENT
MECHANICAL PLAN**

M100

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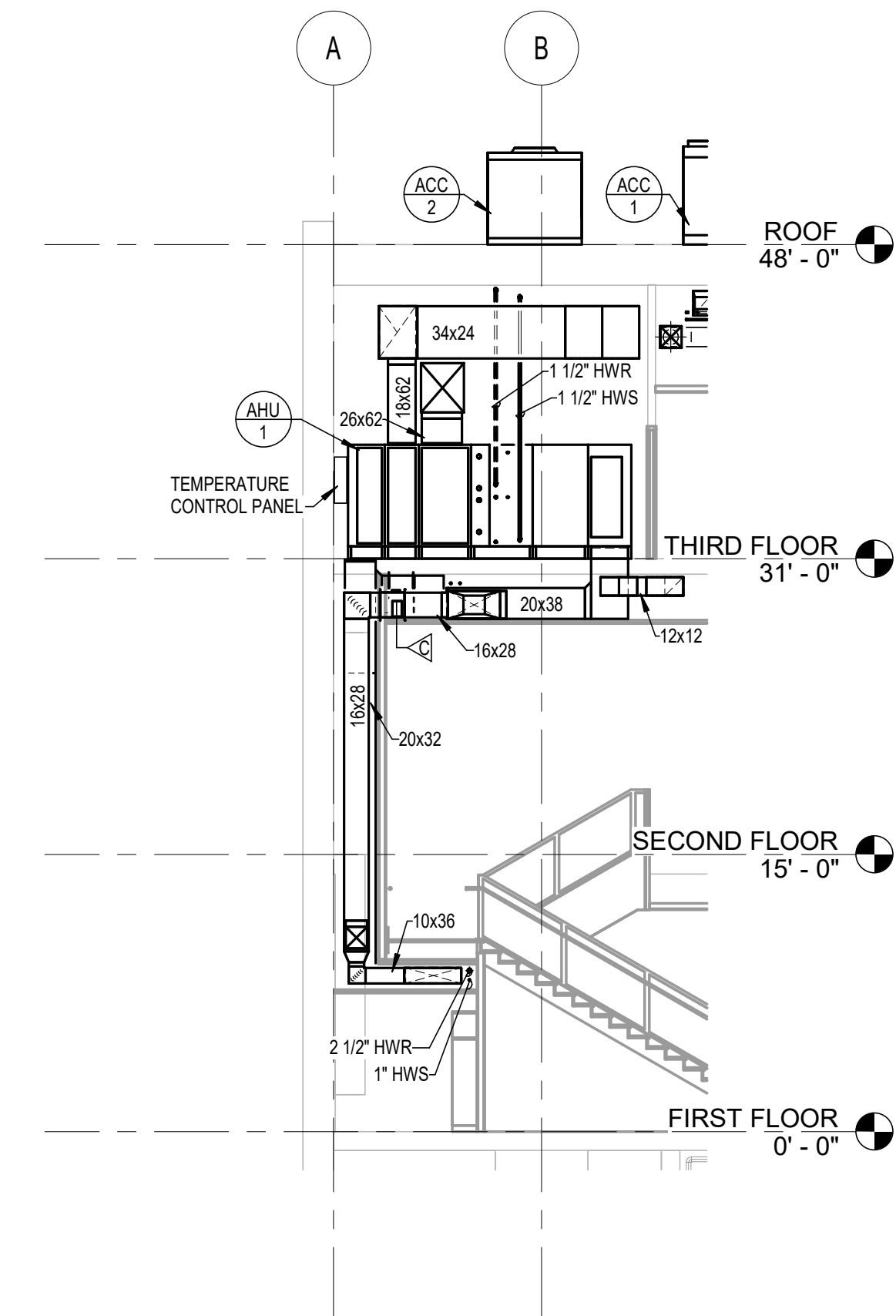


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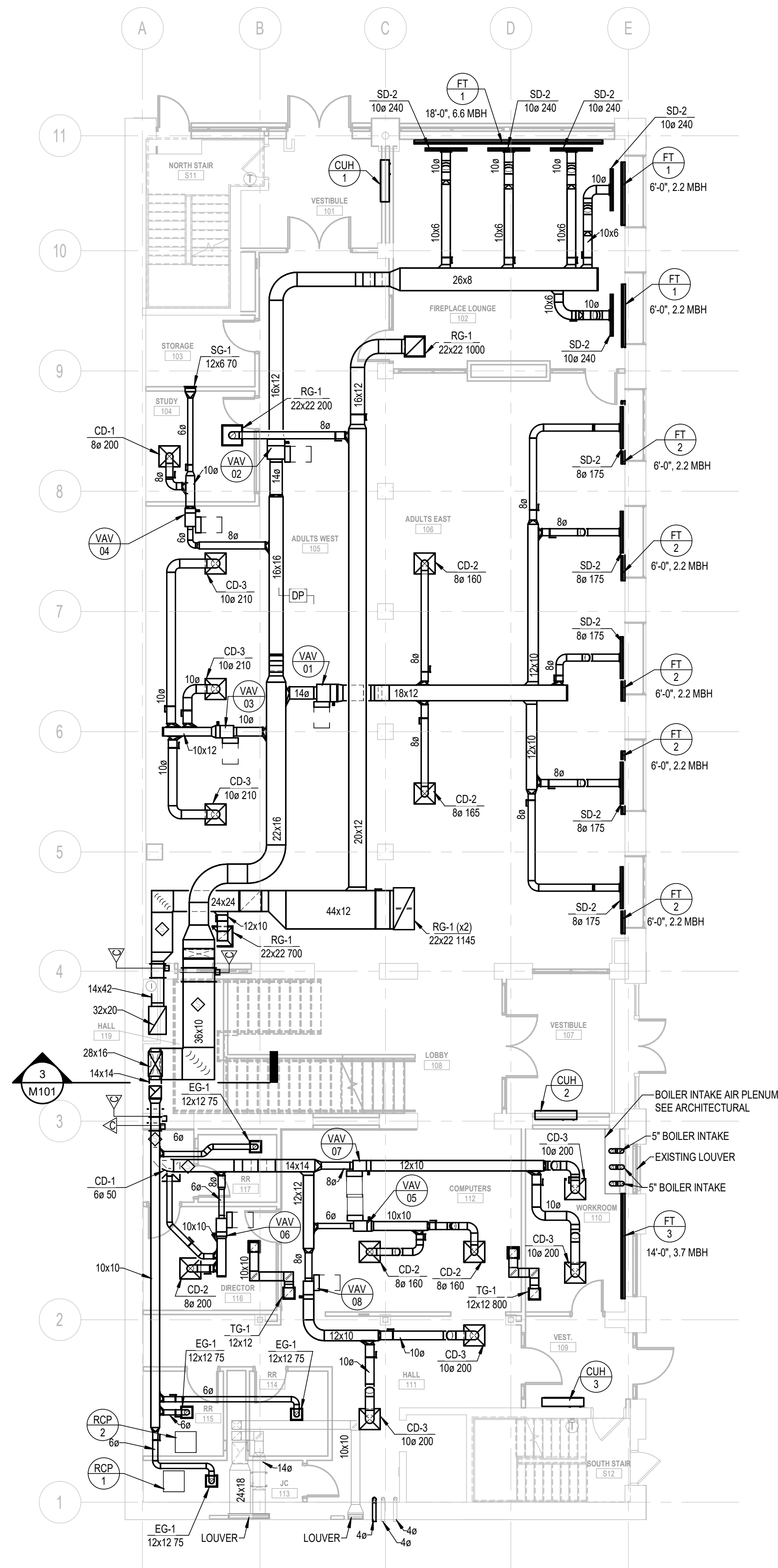
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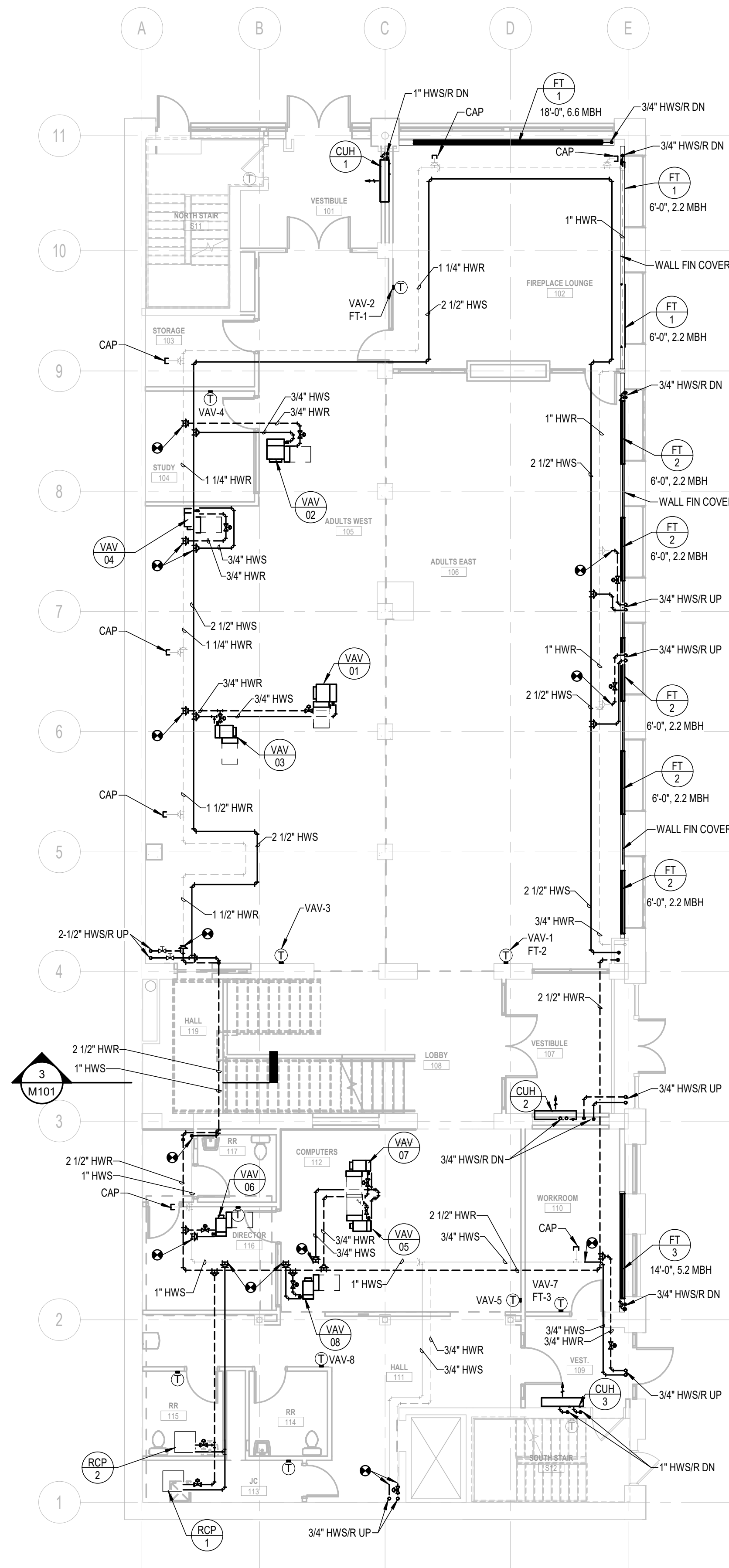
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3 AHU-1 SHAFT SECTION VIEW
1/8" = 1'-0"



1 FIRST FLOOR DUCTWORK PLAN
1/8" = 1'-0"



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



**FIRST FLOOR
MECHANICAL PLAN**

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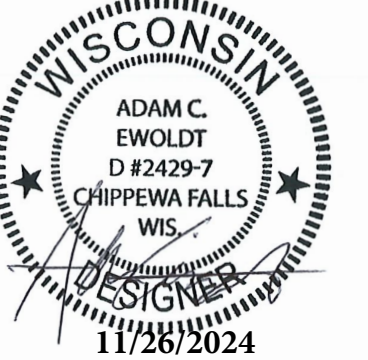
M101

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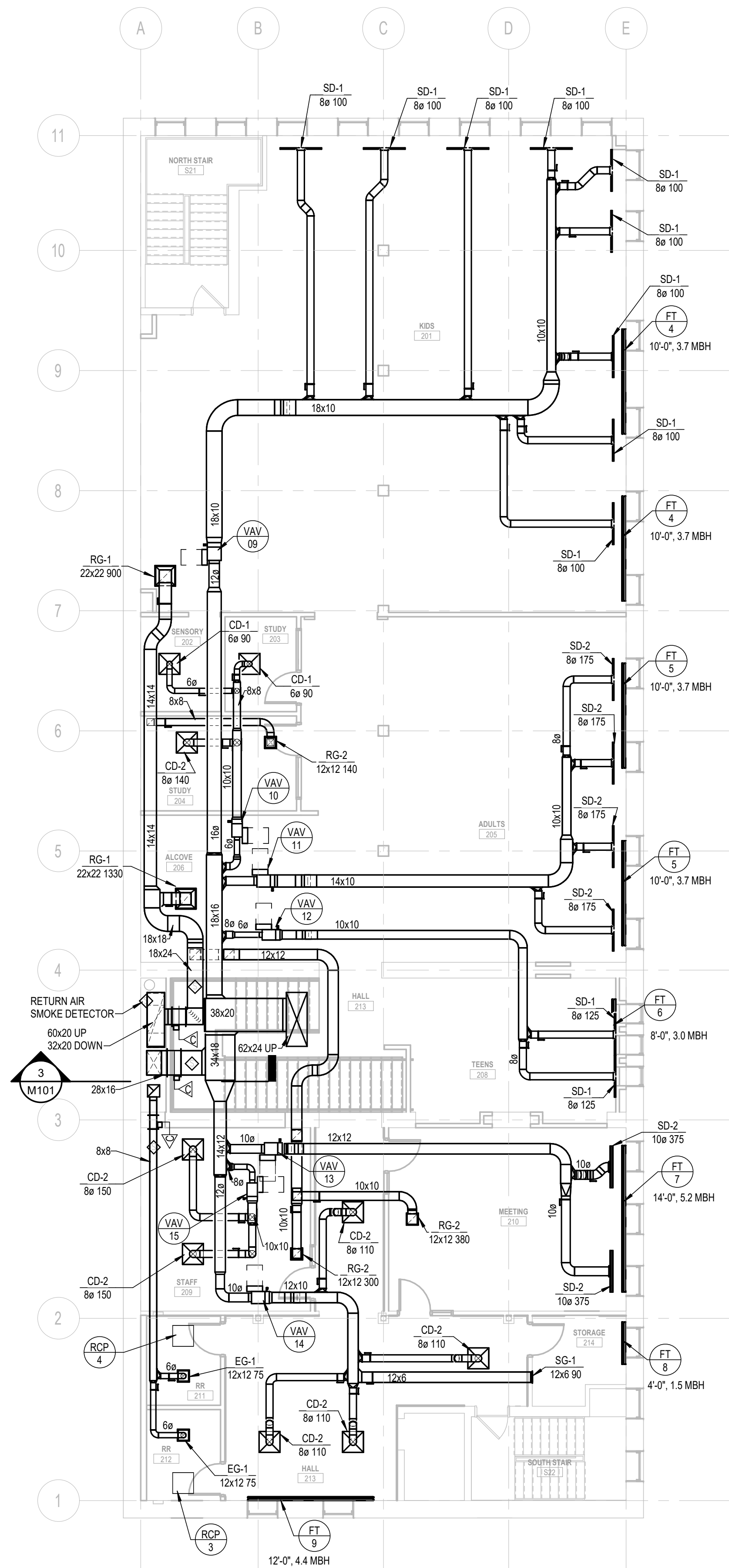
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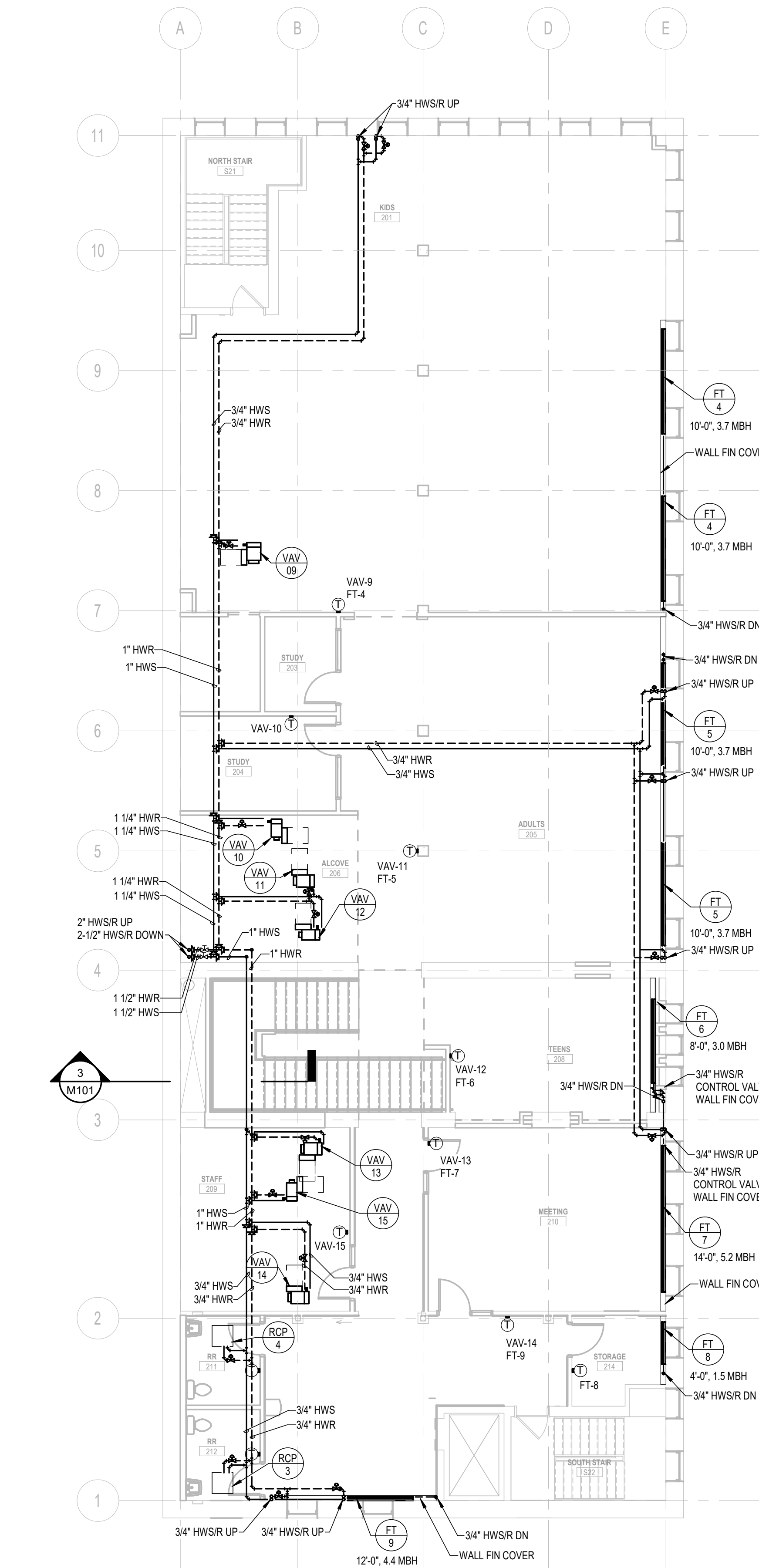
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**SECOND FLOOR
MECHANICAL PLAN**

M102



1 SECOND FLOOR DUCTWORK PLAN
1/8" = 1'-0"



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

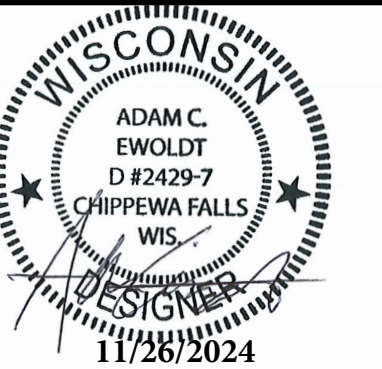


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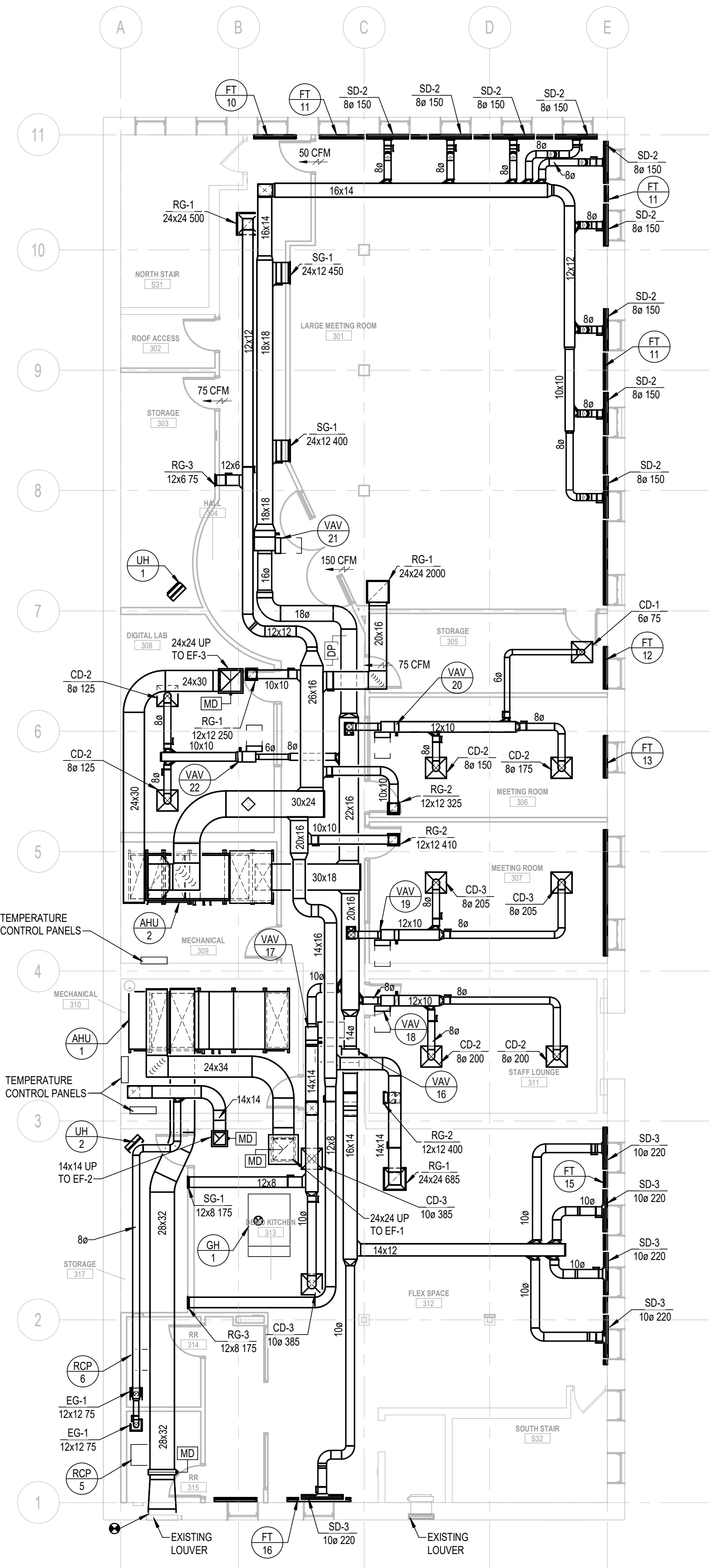
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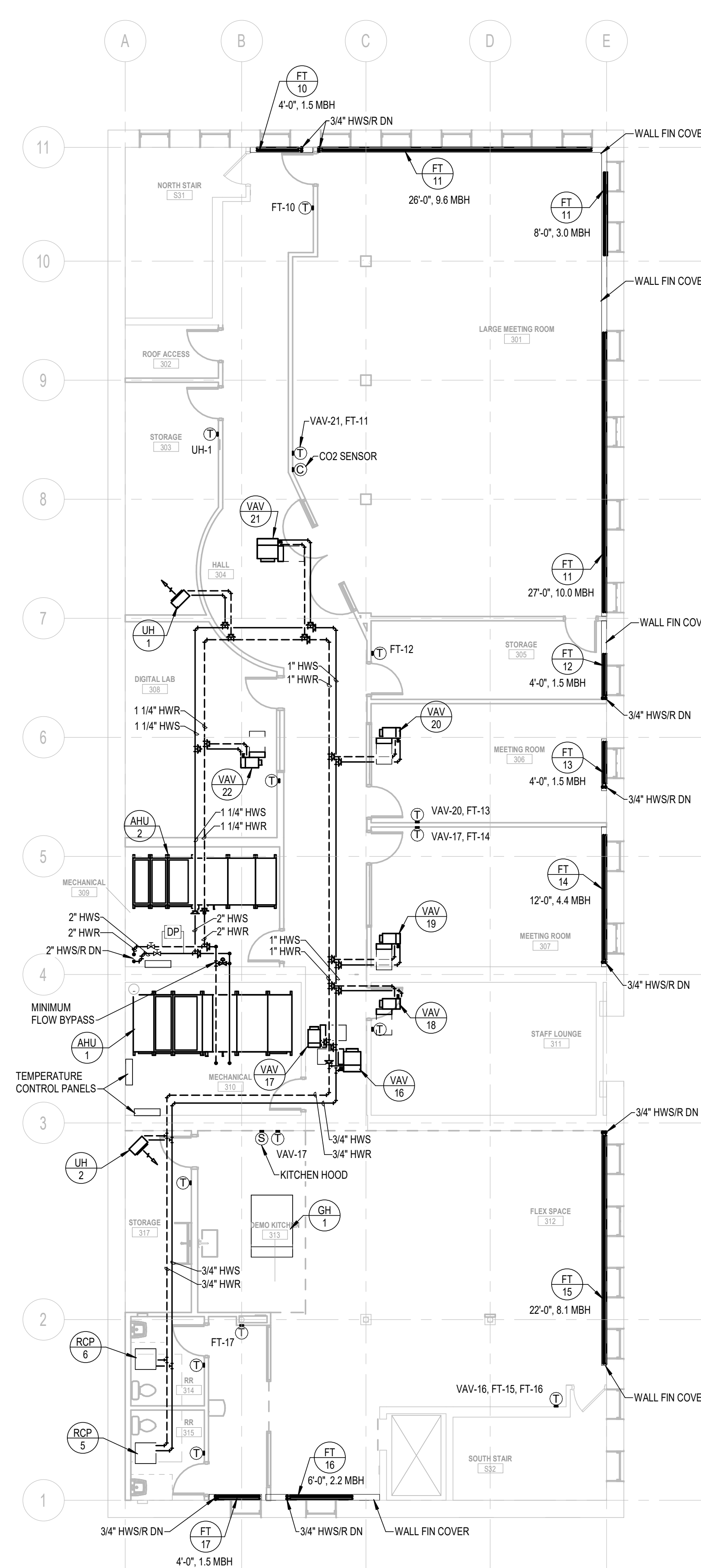
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**THIRD FLOOR
MECHANICAL PLAN**

M103



1 THIRD FLOOR DUCTWORK PLAN
1/8" = 1'-0"



2 THIRD FLOOR PIPING PLAN
1/8" = 1'-0"



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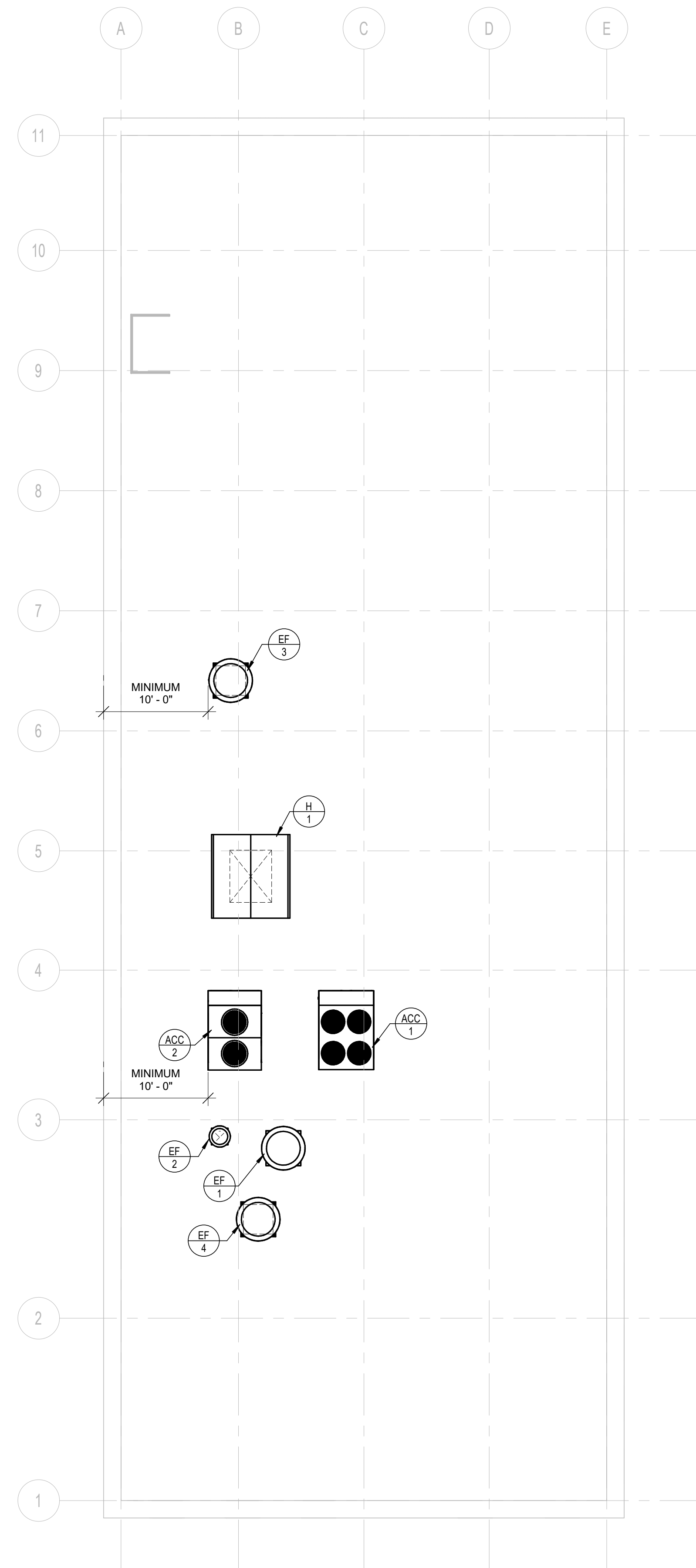
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**ROOF
MECHANICAL PLAN**



1 ROOF - MECHANICAL DUCT OVERALL
1/8" = 1'-0"



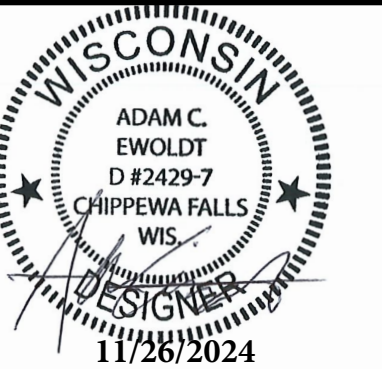
M104

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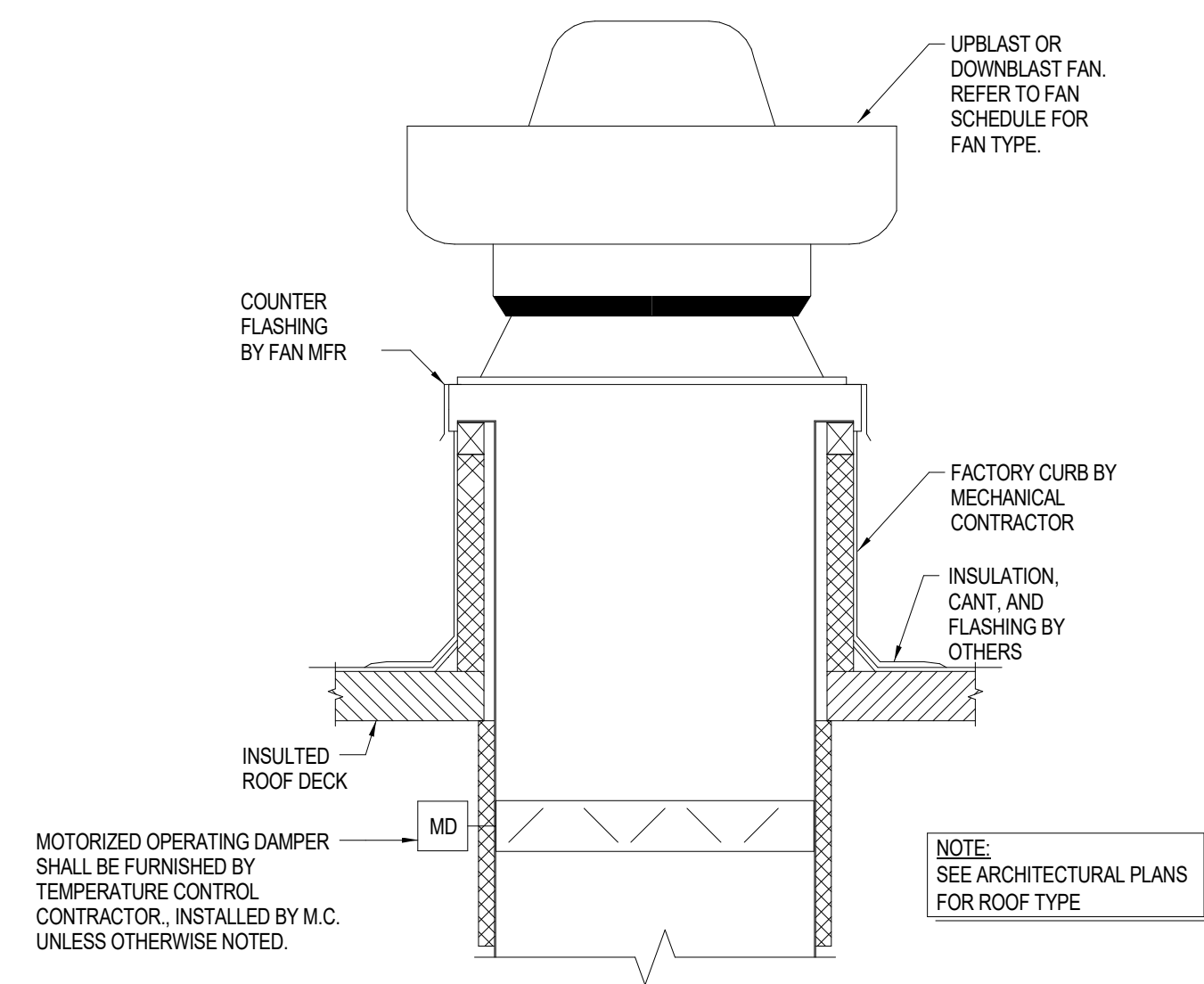
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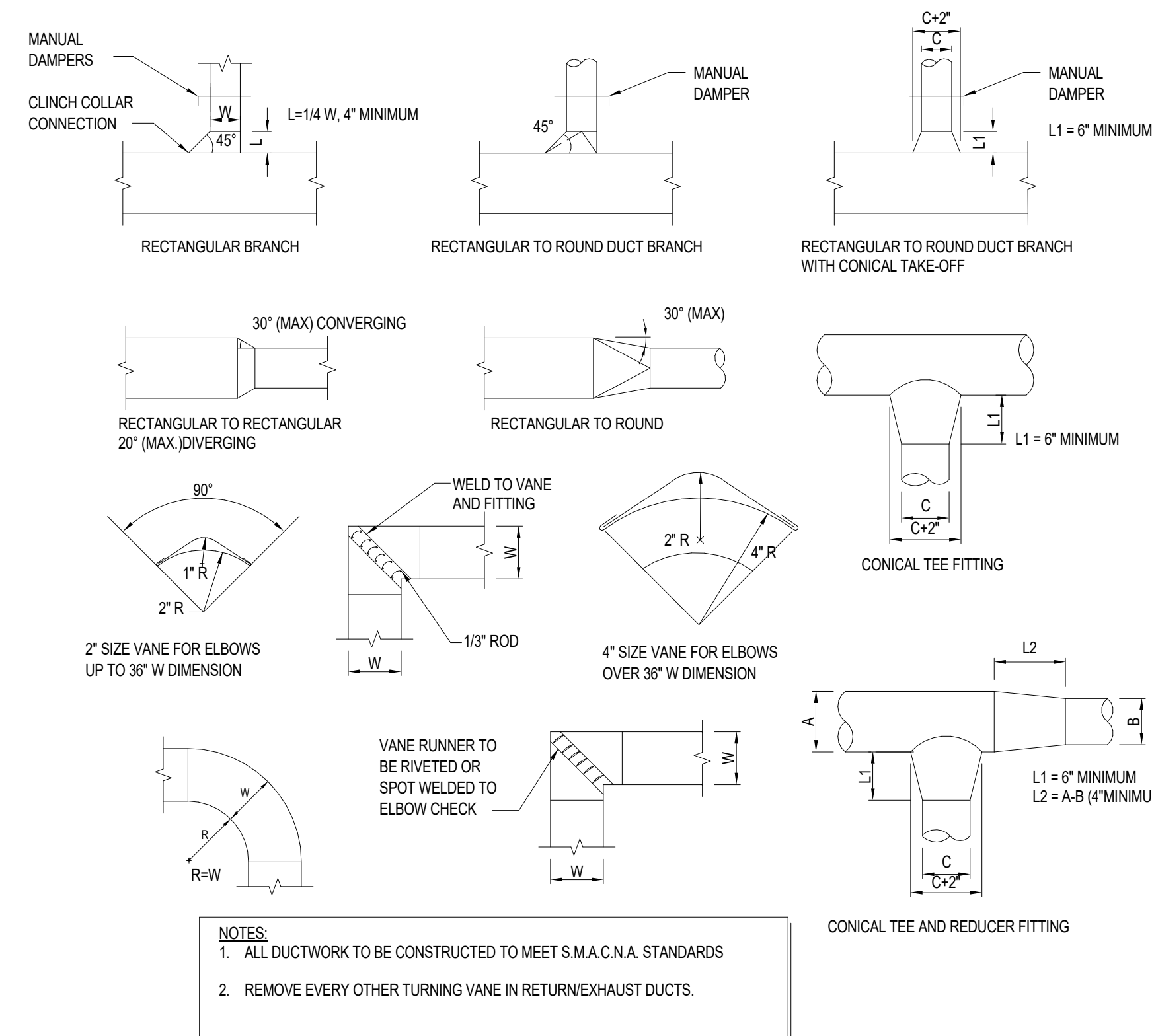
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**MECHANICAL
DETAILS**

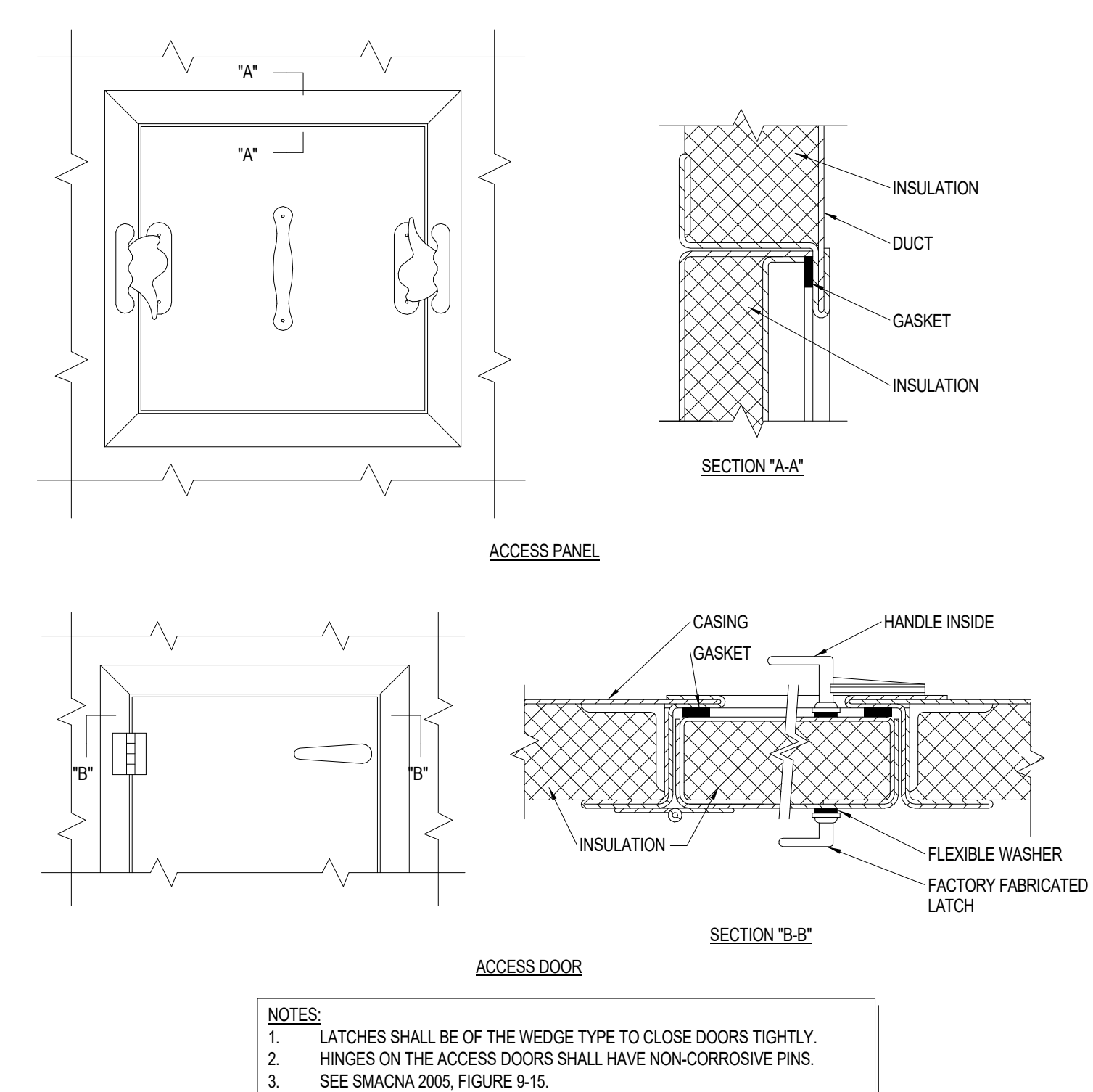
M501



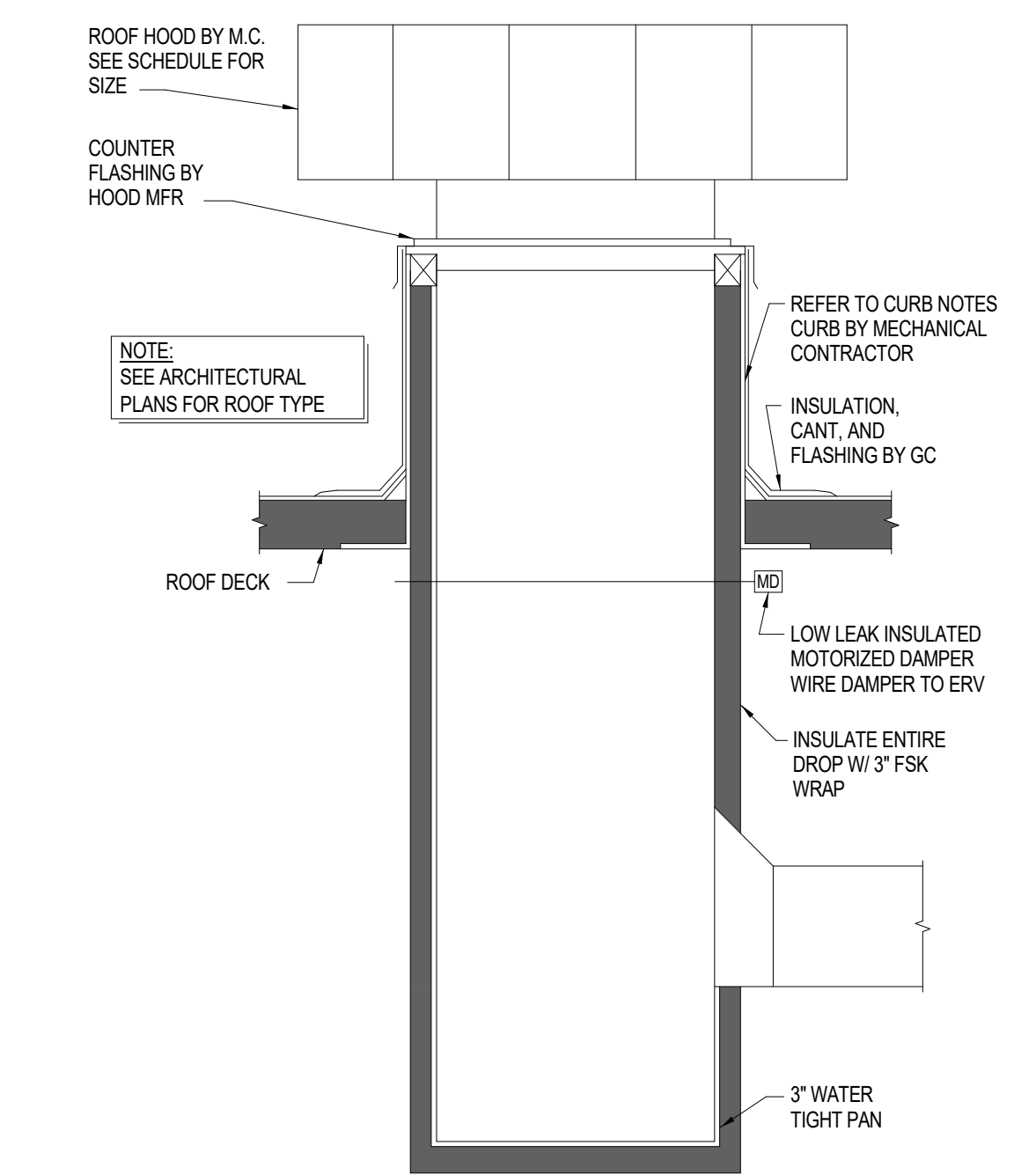
3 ROOF-MOUNTED EXHAUST FAN DETAIL
NOT TO SCALE



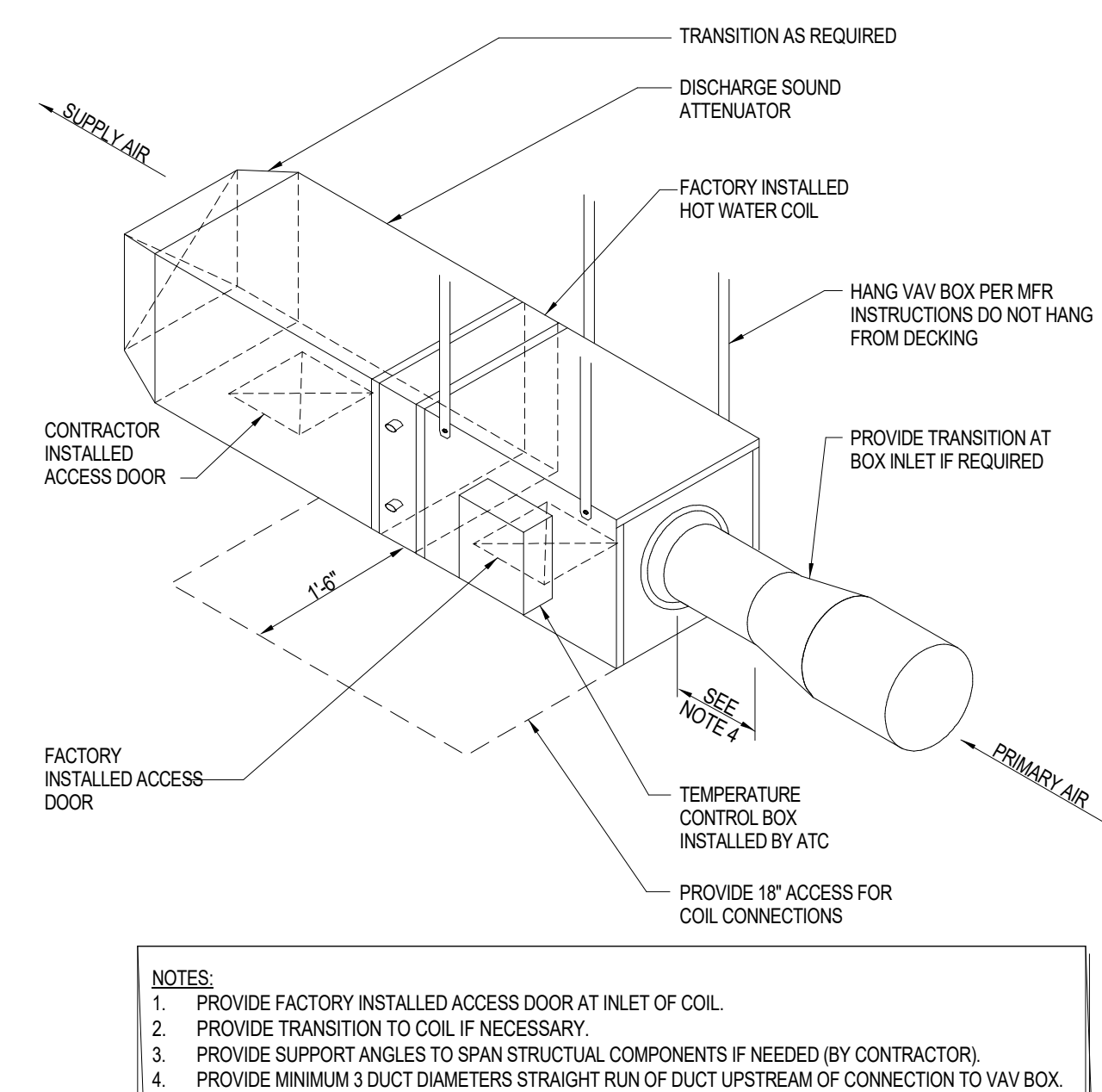
2 TYPICAL DUCTWORK DETAILS
NOT TO SCALE



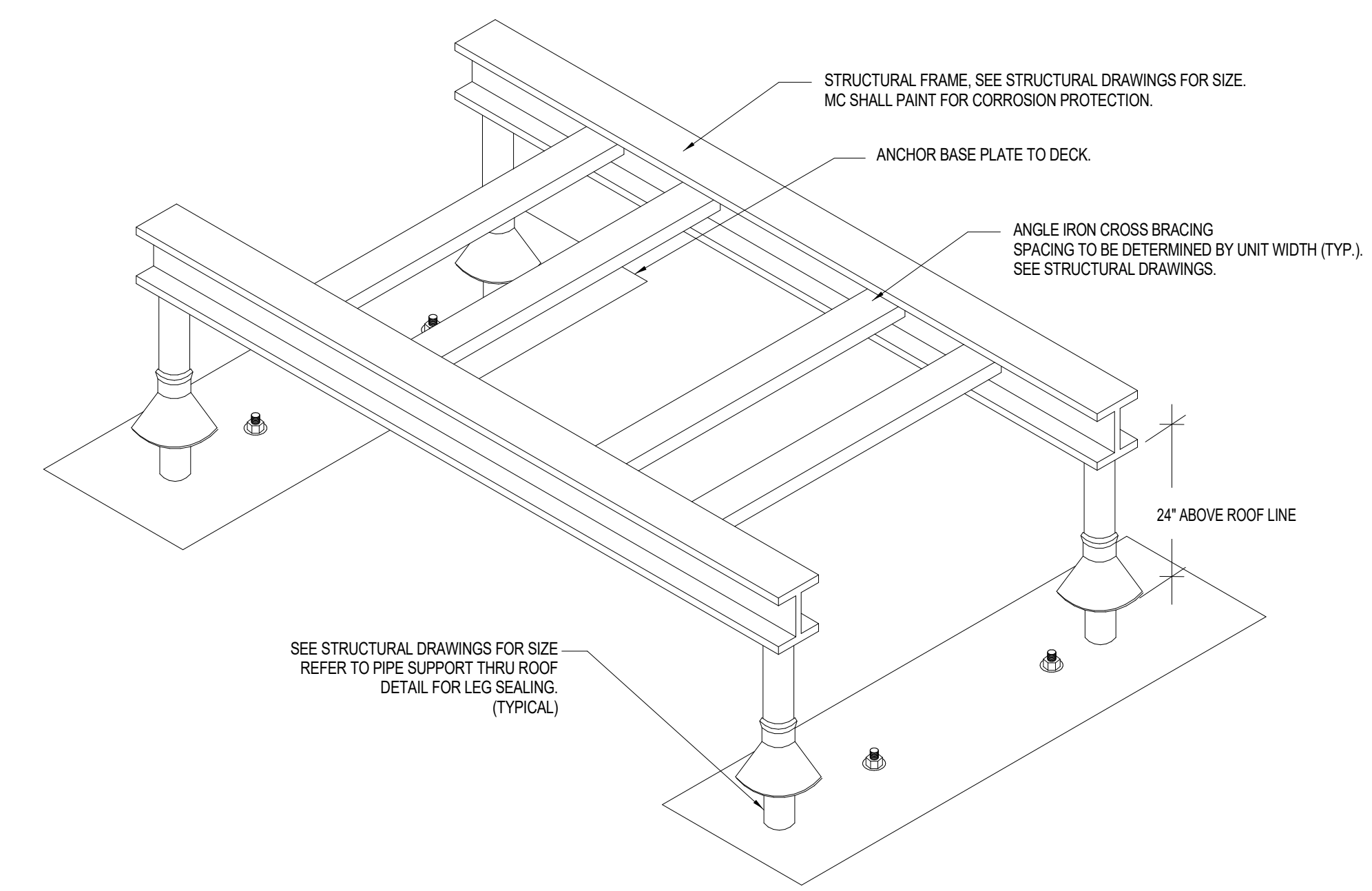
1 ACCESS PANEL AND DOOR DETAIL
NOT TO SCALE



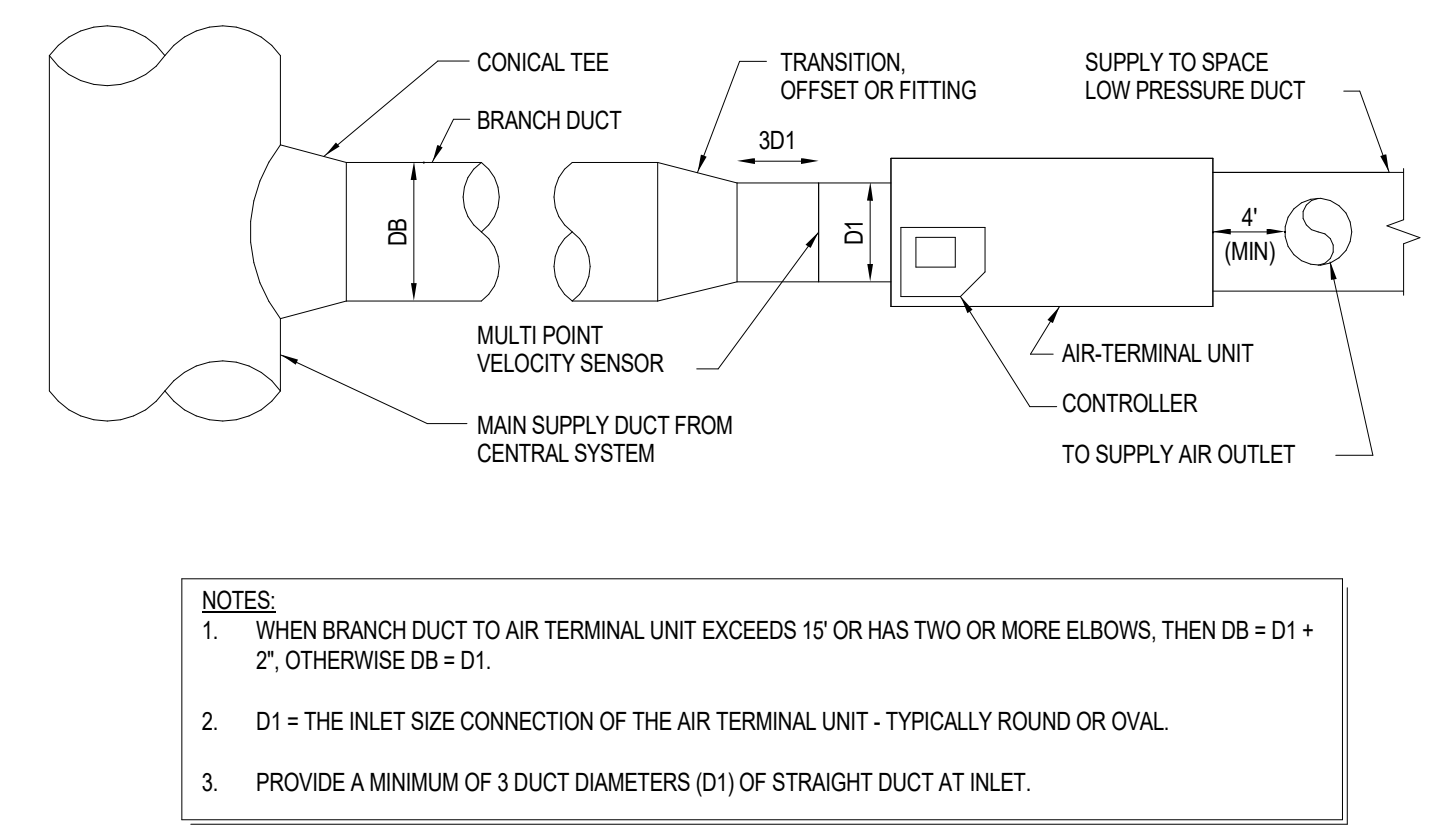
6 ROOF HOOD DETAIL
NOT TO SCALE



5 VAV WITH HOT WATER REHEAT DETAIL
NOT TO SCALE



4 CONDENSING UNIT STEEL FRAMING DETAIL (FOR REFERENCE ONLY)
NOT TO SCALE



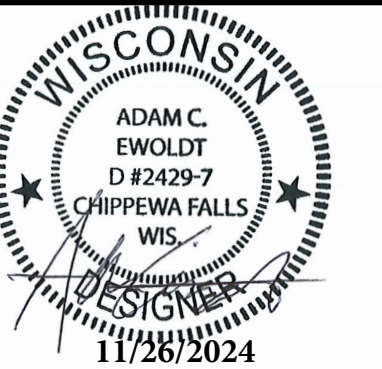
7 AIR TERMINAL UNIT CONNECTION DETAIL
NOT TO SCALE

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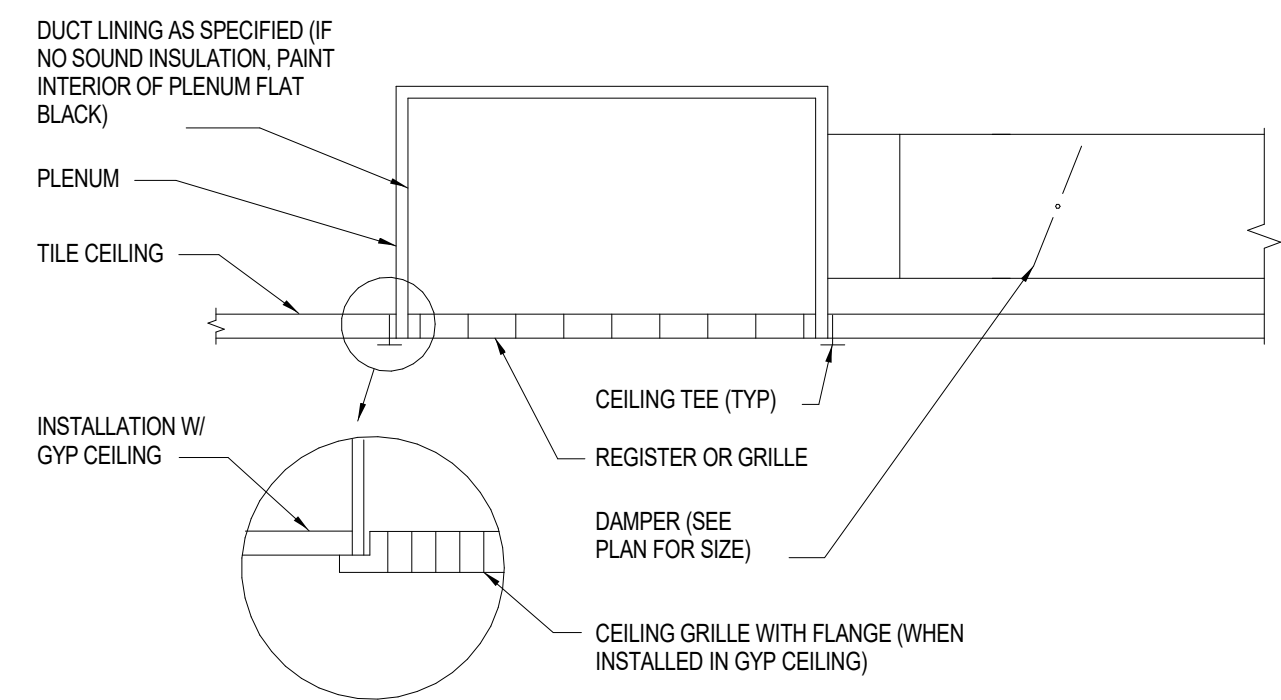


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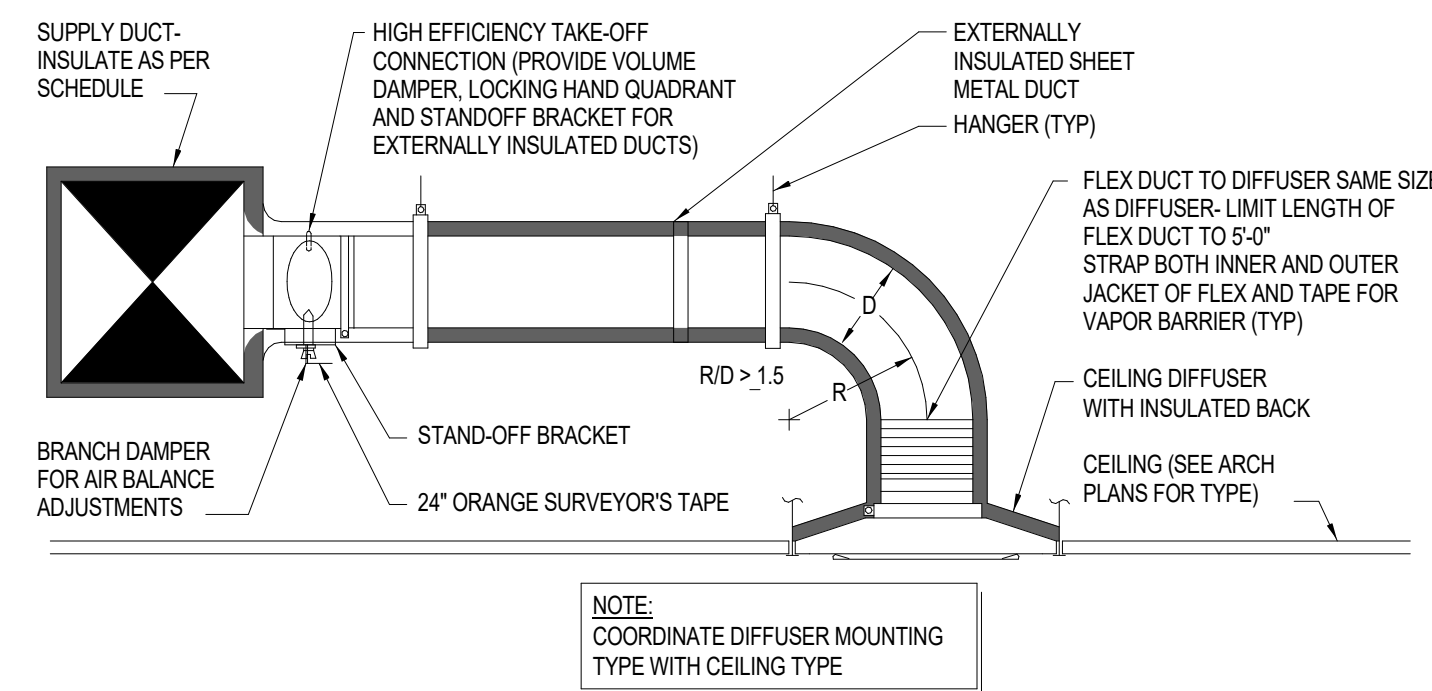
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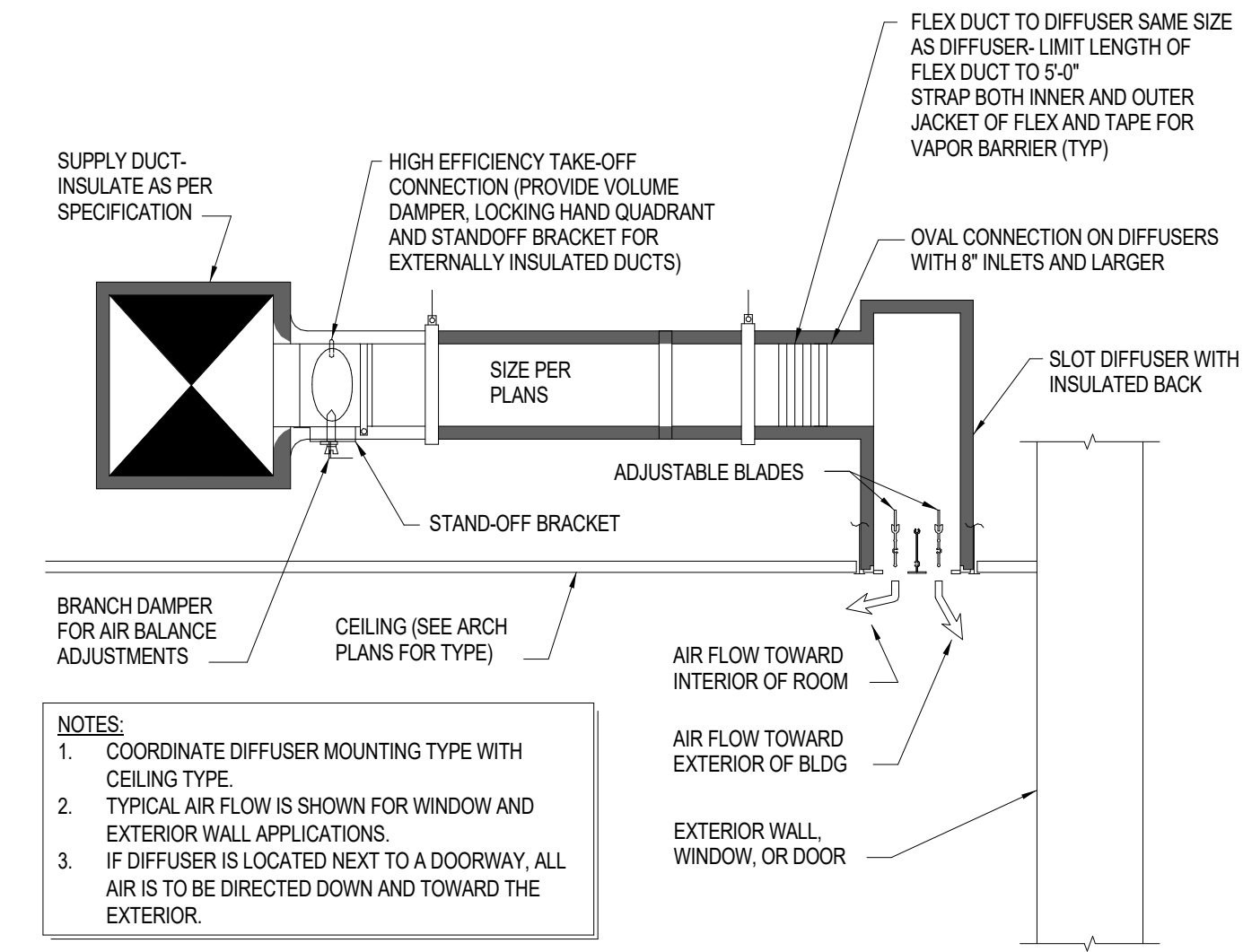
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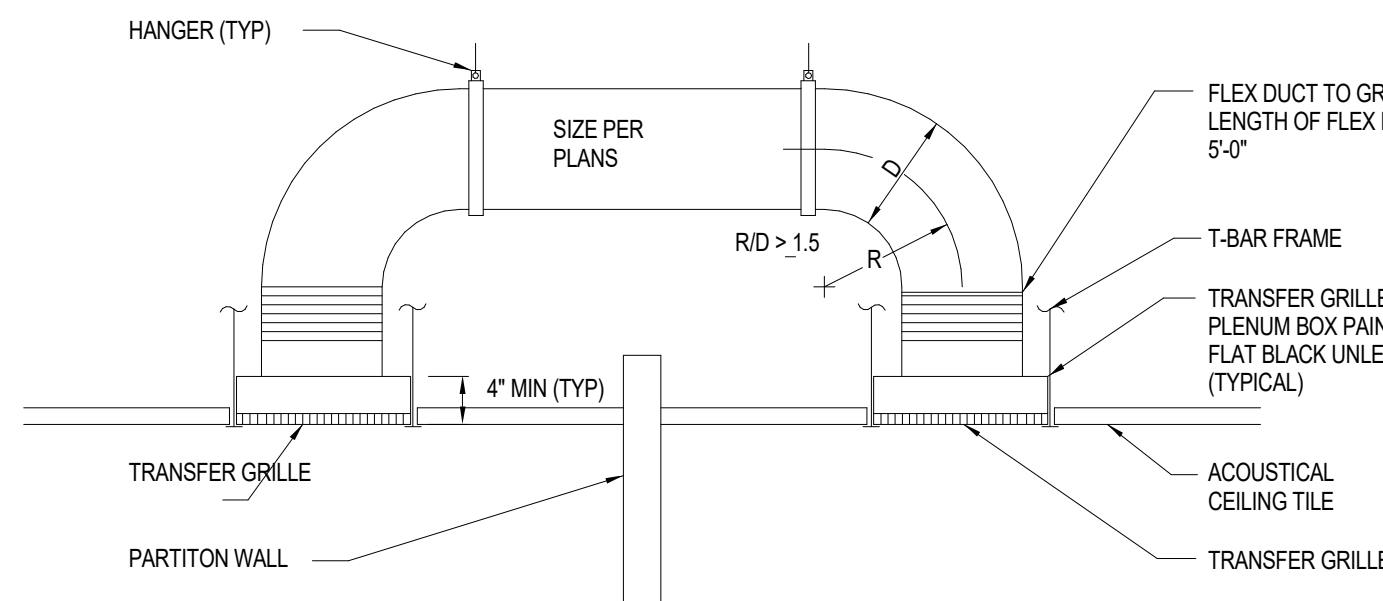
3 RETURN/EXHAUST CONNECTION DETAIL
NOT TO SCALE



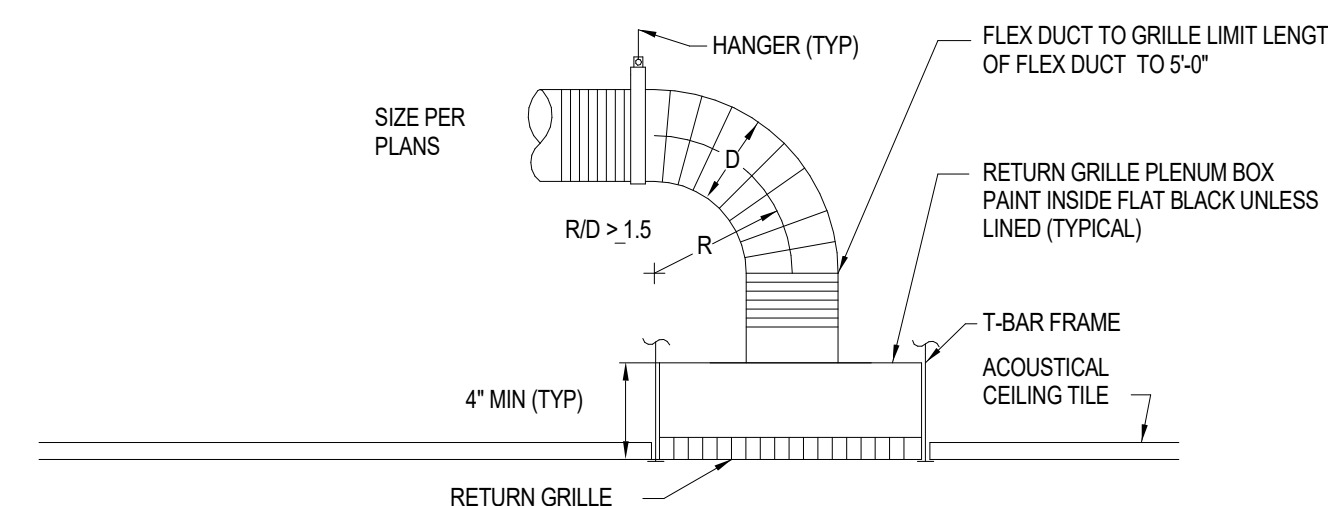
2 CEILING DIFFUSER DETAIL
NOT TO SCALE



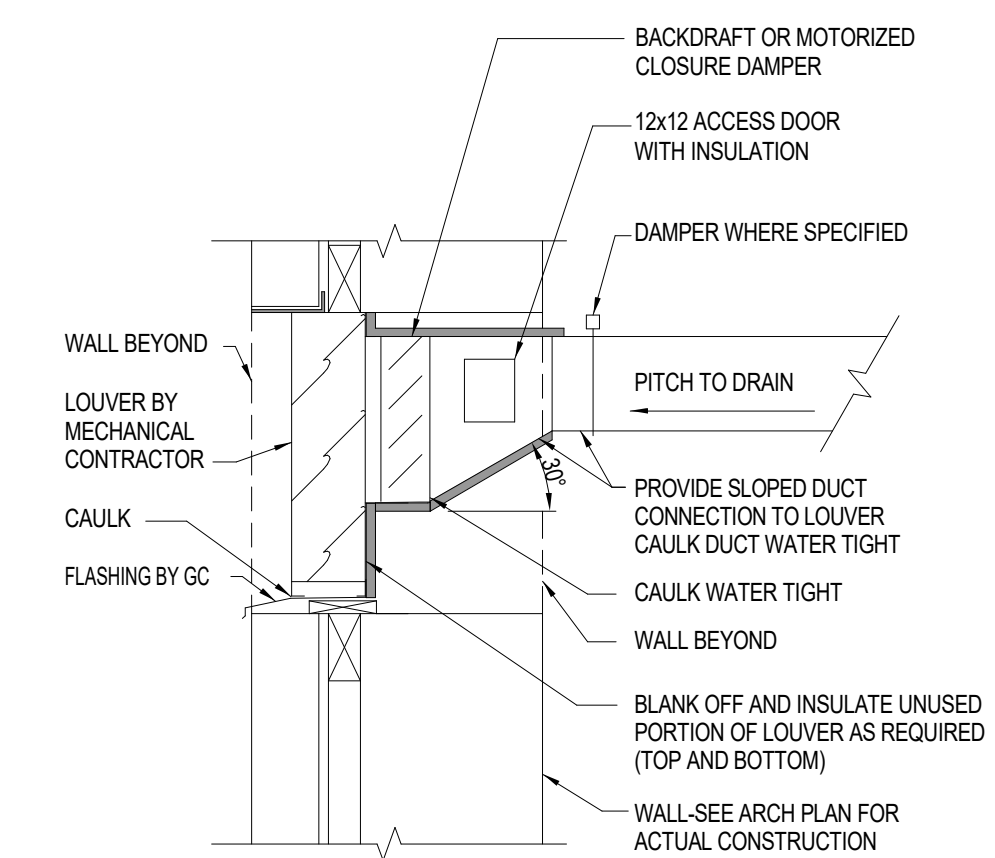
1 SLOT DIFFUSER DETAIL
NOT TO SCALE



6 TRANSFER GRILLE DETAIL
NOT TO SCALE



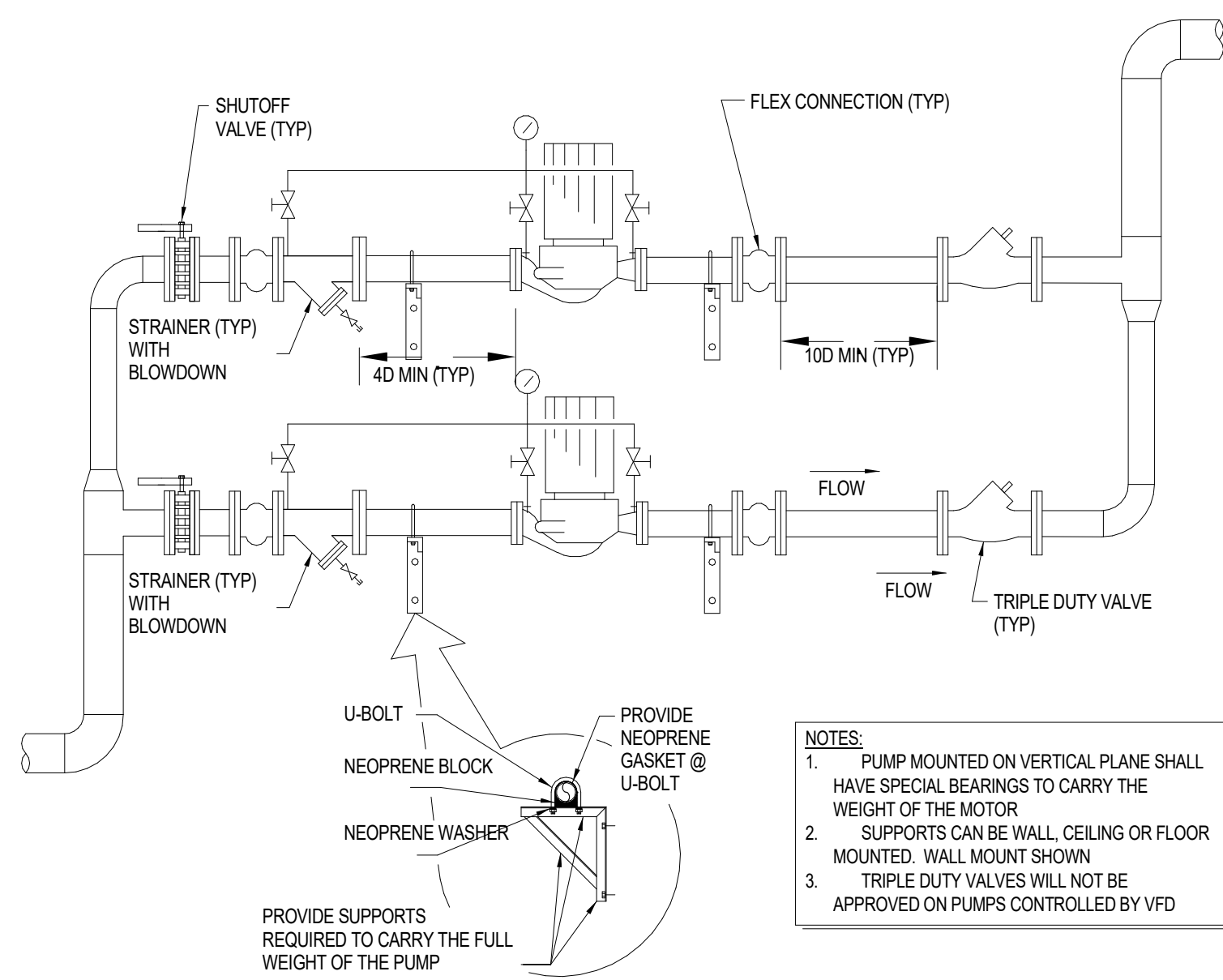
5 RETURN / EXHAUST AIR GRILLE PLENUM BOX
NOT TO SCALE



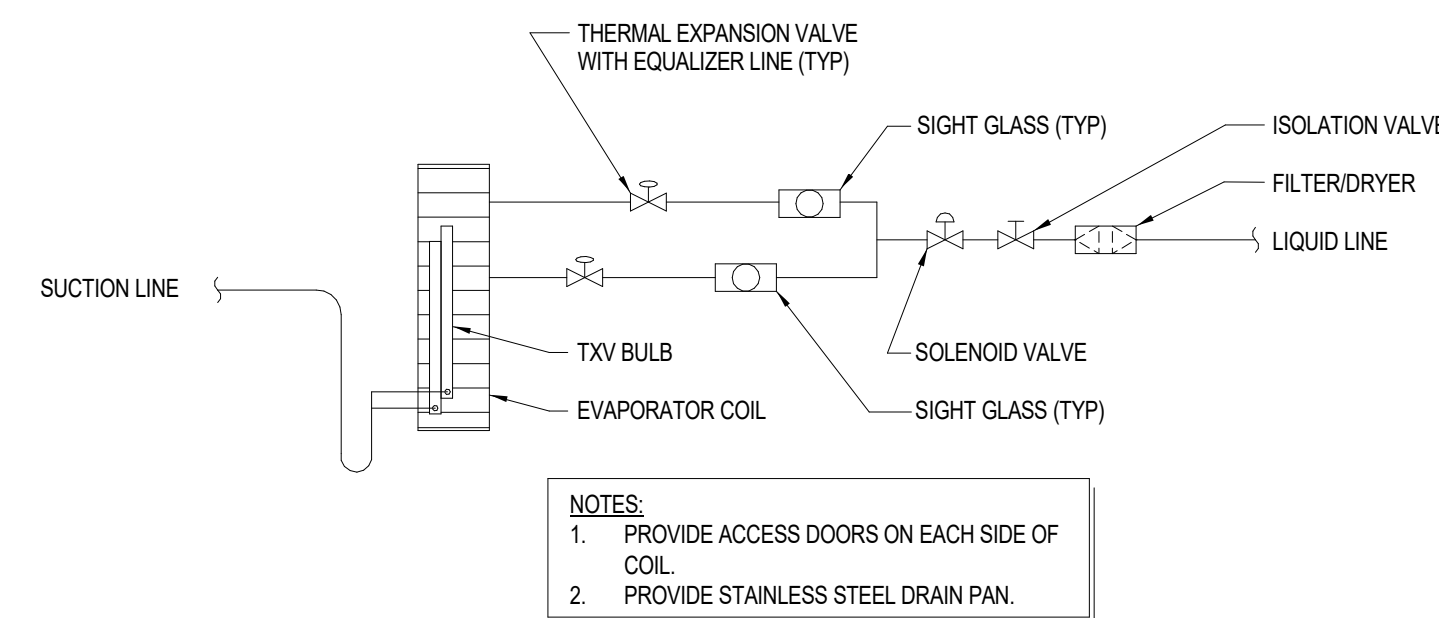
NOTES:
1. BIRD SCREEN FOR OUTSIDE AIR INTAKE LOUVER TO BE REMOVABLE OR HINGED AT TOP TO SWING UP.

NOTE:
DUCT MAY ATTACH TO BOTTOM OF FRAME IF LOUVER IS DRAINABLE

4 LOUVER CONNECTION DETAIL
NOT TO SCALE

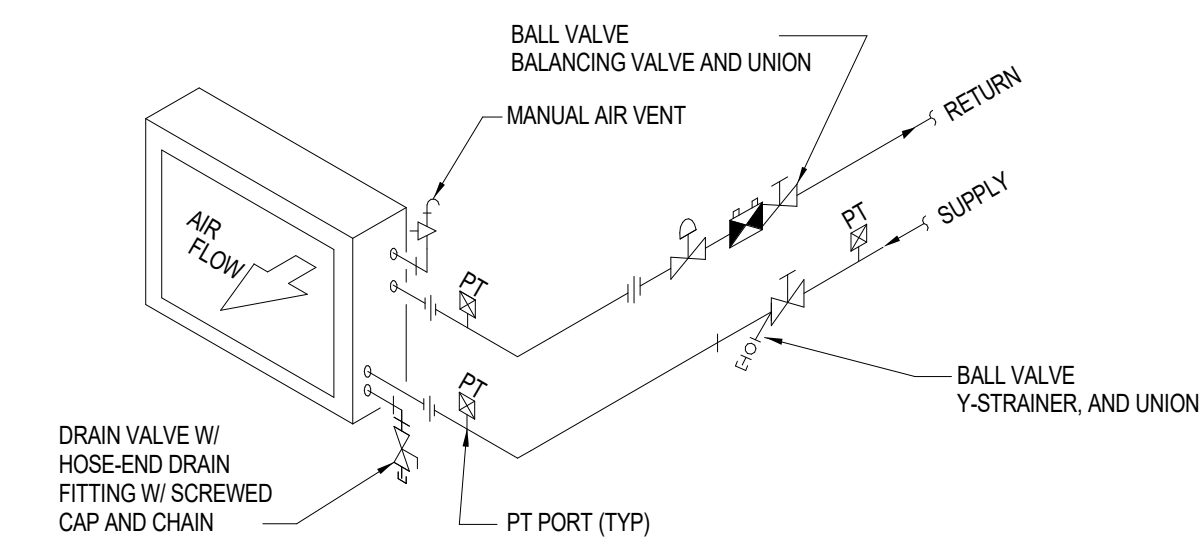


9 INLINE PUMP DETAIL
NOT TO SCALE



NOTES:
1. PROVIDE ACCESS DOORS ON EACH SIDE OF COIL.
2. PROVIDE STAINLESS STEEL DRAIN PAN.

8 REFRIGERANT PIPING COMPONENT DIAGRAM
NOT TO SCALE



NOTES:
1. WATER FLOW IS COUNTER TO AIR FLOW, OFFSET PIPING FOR SERVICE. TYPICAL ALL HEATING AND COOLING COILS EXCEPT AS NOTED.
2. ALL VALVES AND CONTROL DEVICES TO BE FULL PORT UNLESS APPROVED BY ENGINEER.
3. IF NO VENT PORT ON COIL, ADD ONE IN PIPE.

7 2-WAY HEATING COIL DETAIL
NOT TO SCALE

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**MECHANICAL
DETAILS**

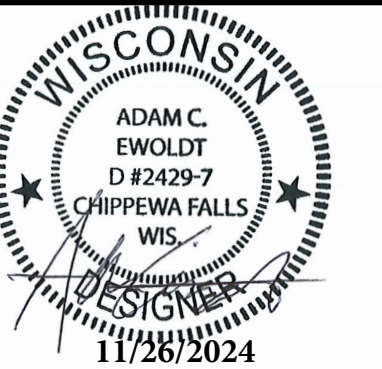
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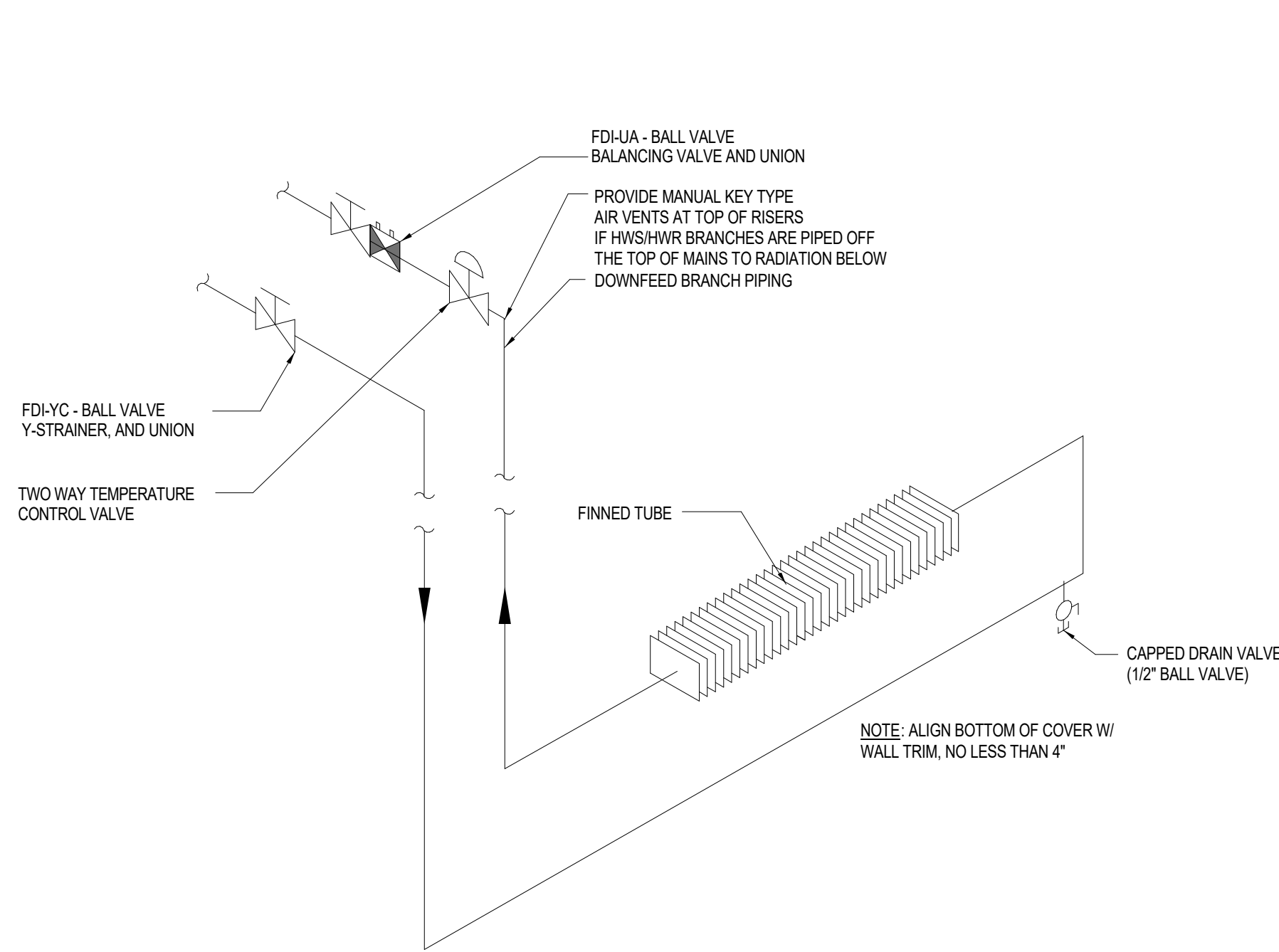
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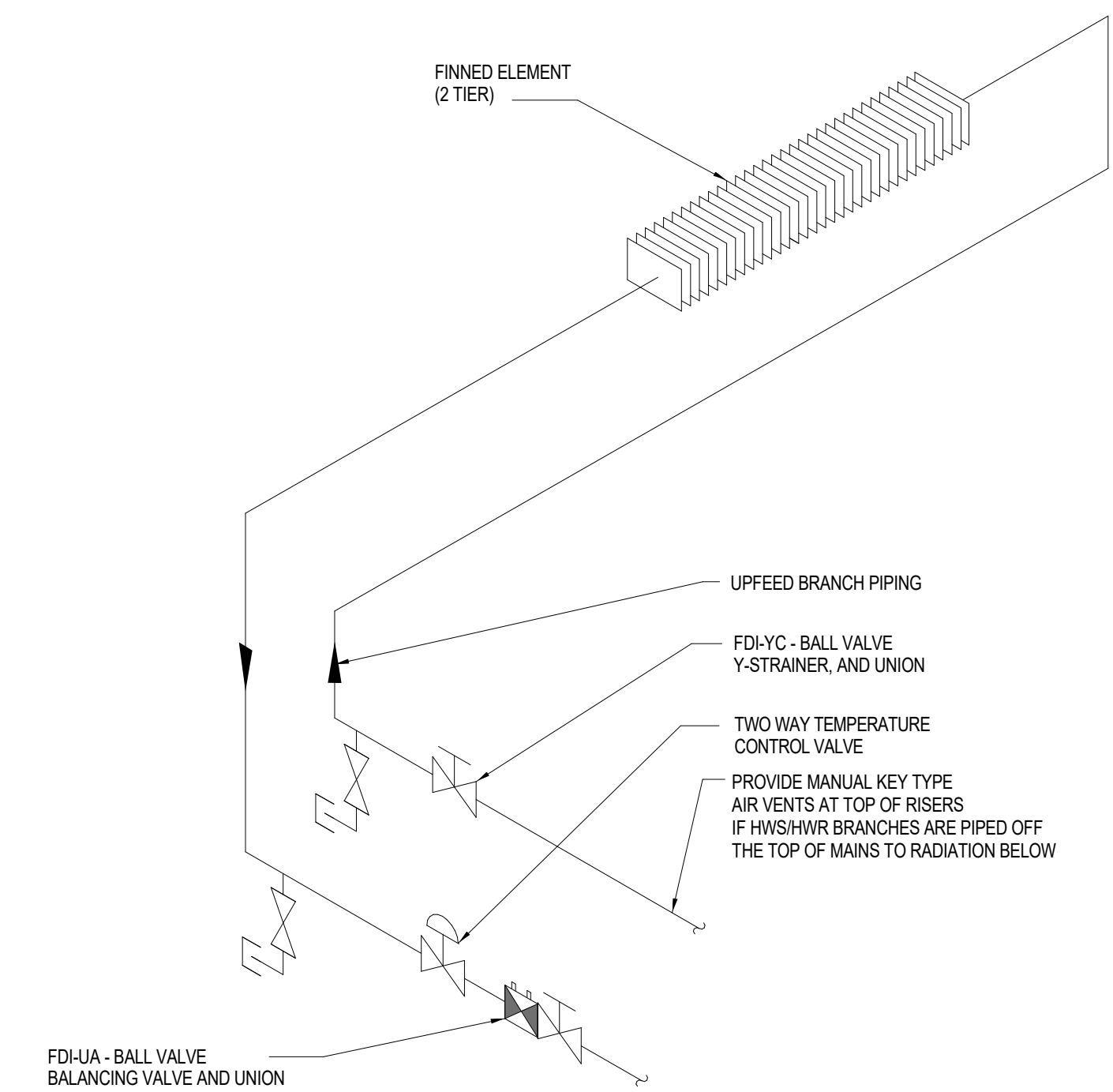
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**MECHANICAL
DETAILS**

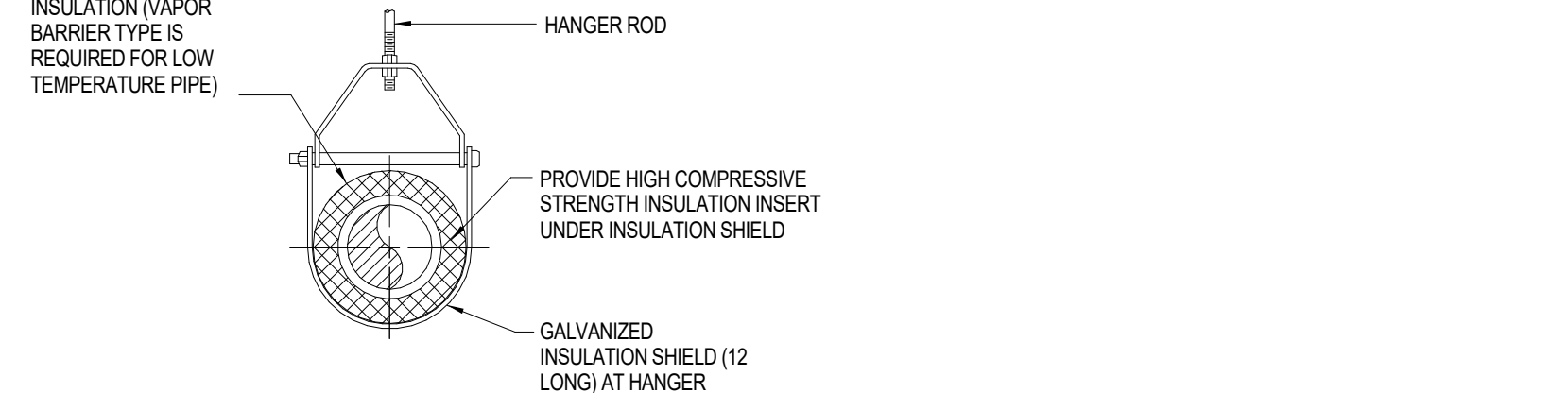
M503



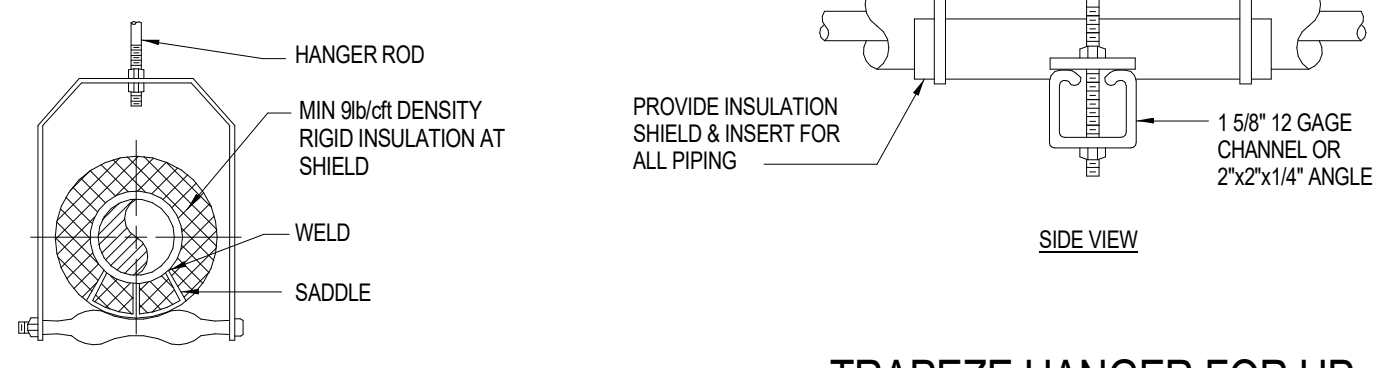
3 DOWNFEED FIN-TUBE RADIATION PIPING DETAIL
NOT TO SCALE



2 UPFEED FIN-TUBE RADIATION PIPING DETAIL
NOT TO SCALE



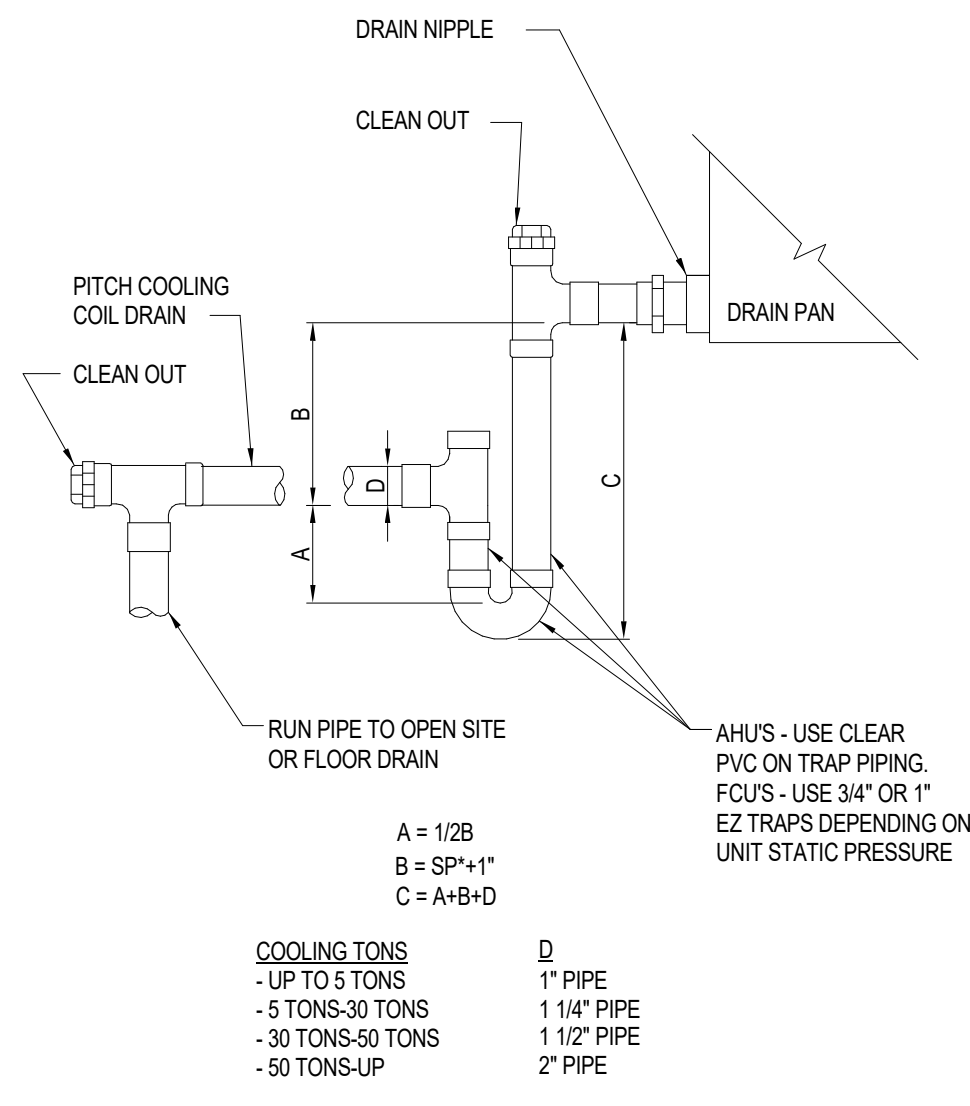
ADJUSTABLE CLEVIS HANGER



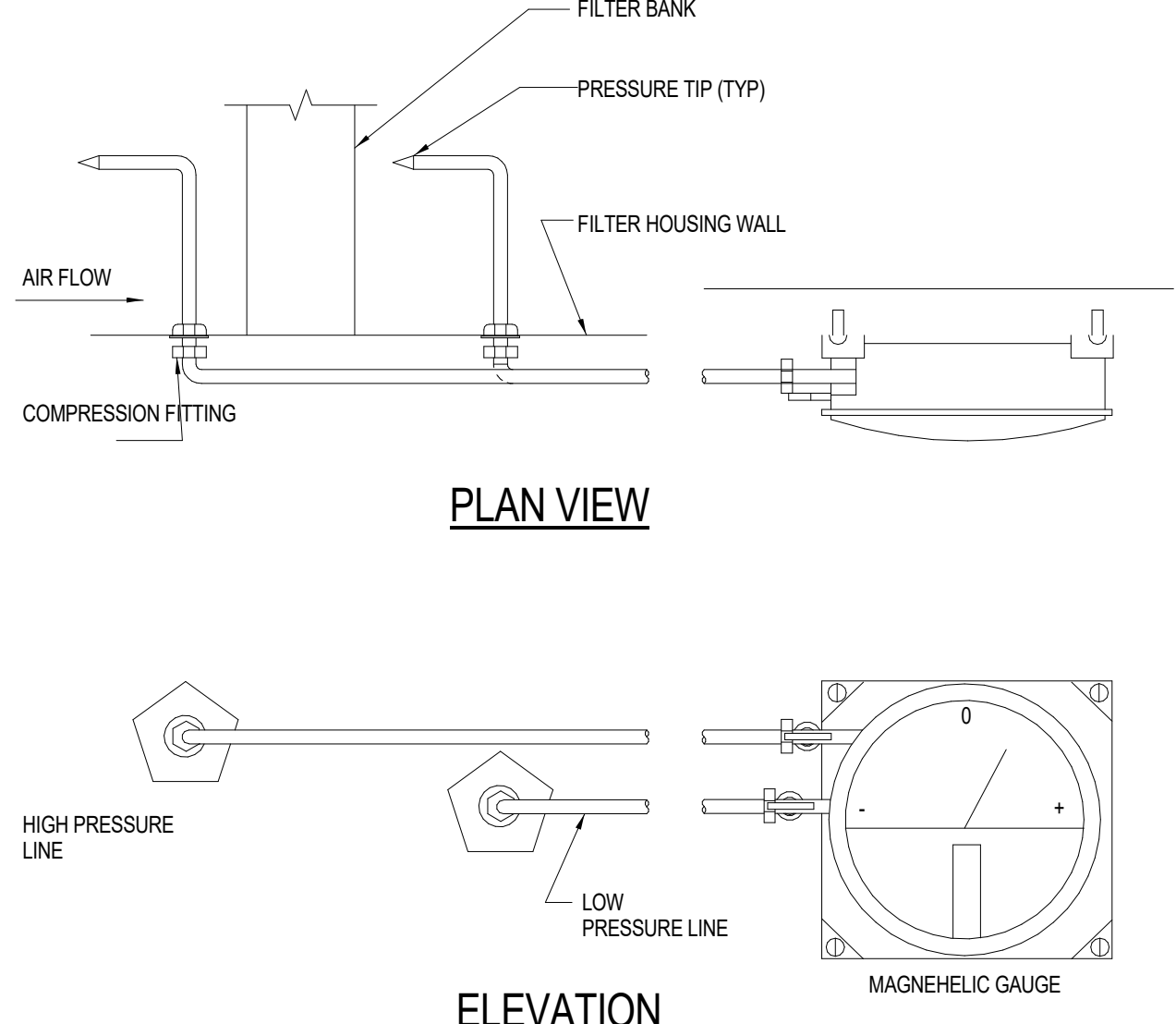
ADJUSTABLE ROLLER HANGER

TRAPEZE HANGER FOR UP TO 1000 LB. UNIFORM LOAD

1 TYPICAL PIPE HANGER DETAIL
NOT TO SCALE

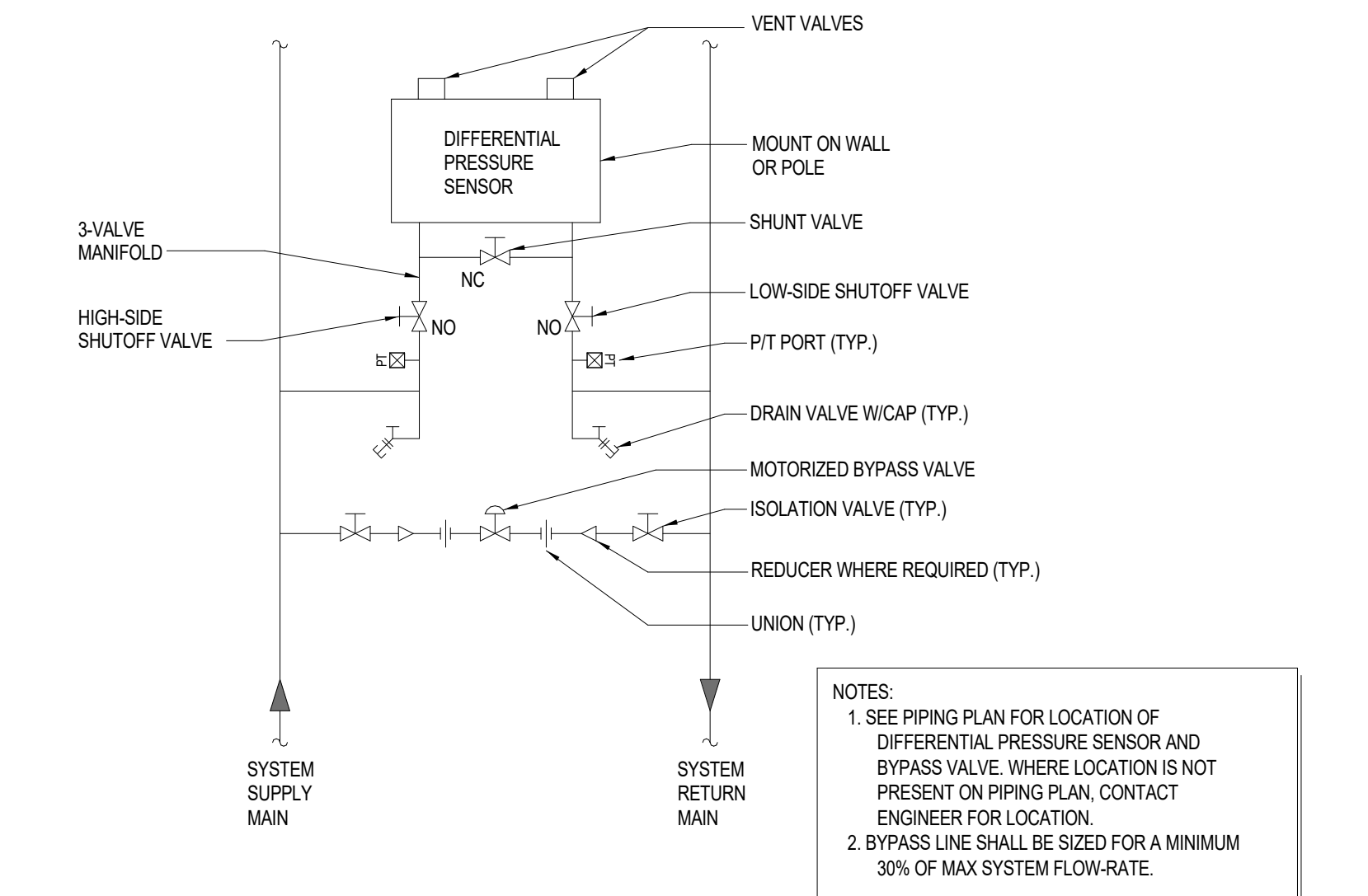


6 NEGATIVE PRESSURE (DRAW-THRU) CONDENSATE DRAIN DETAIL
NOT TO SCALE

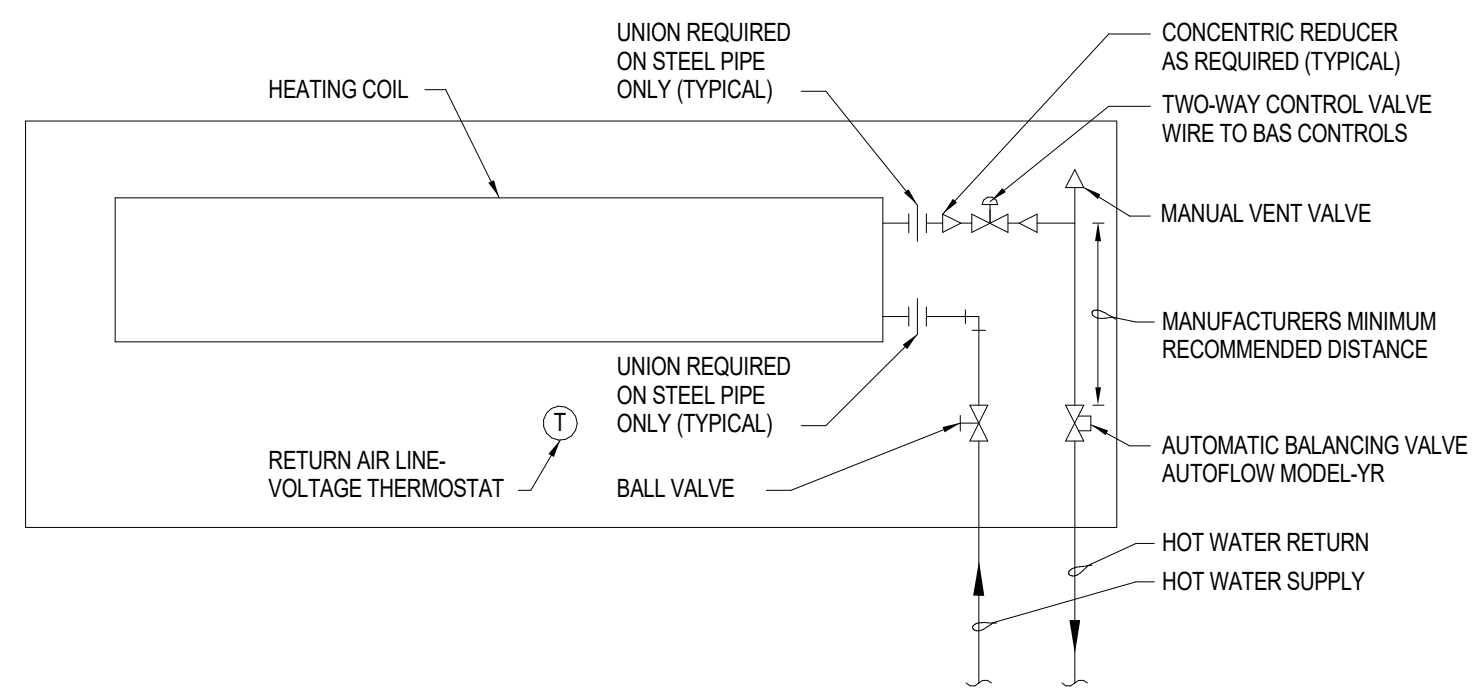


NOTES:
1. INSTALL LEVEL.
2. LOCATE SO FILTER CAN BE REMOVED AND GAGE CAN BE EASILY READ.
3. MAG. GAGE MAY BE LOCATED ABOVE OR TO THE SIDE OF FILTER.
4. PROVIDE ZERO CENTER WITH RANGE: -1" TO 1" WG. PREFILTERS + 2" TO 2" WG. FINAL FILTER.

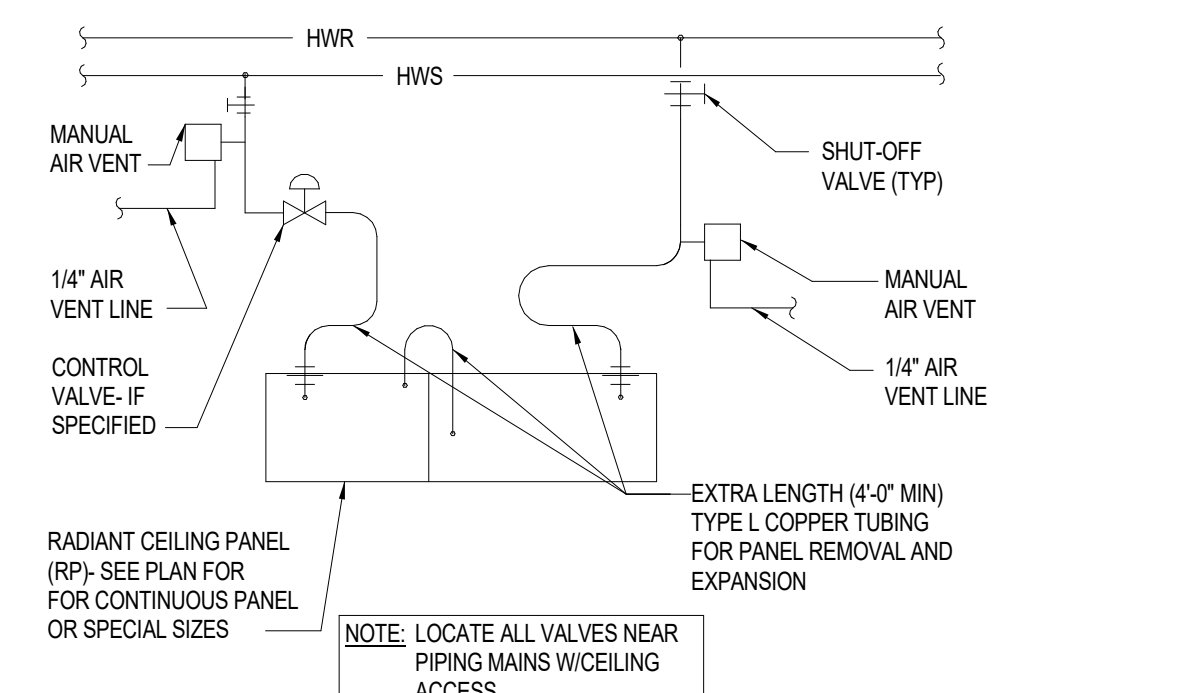
5 INSTALLATION OF MAGNEHELIC FILTER GAUGE
NOT TO SCALE



4 DIFFERENTIAL PRESSURE SENSOR AND BYPASS VALVE DETAIL (WATER-SIDE)
NOT TO SCALE



8 HOT WATER CABINET UNIT HEATER PIPING DETAIL (TWO-WAY VALVE)
NOT TO SCALE



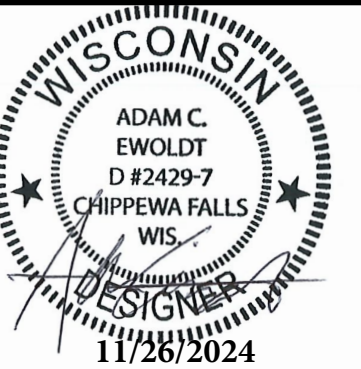
7 RADIANT CEILING PANEL DETAIL
NOT TO SCALE

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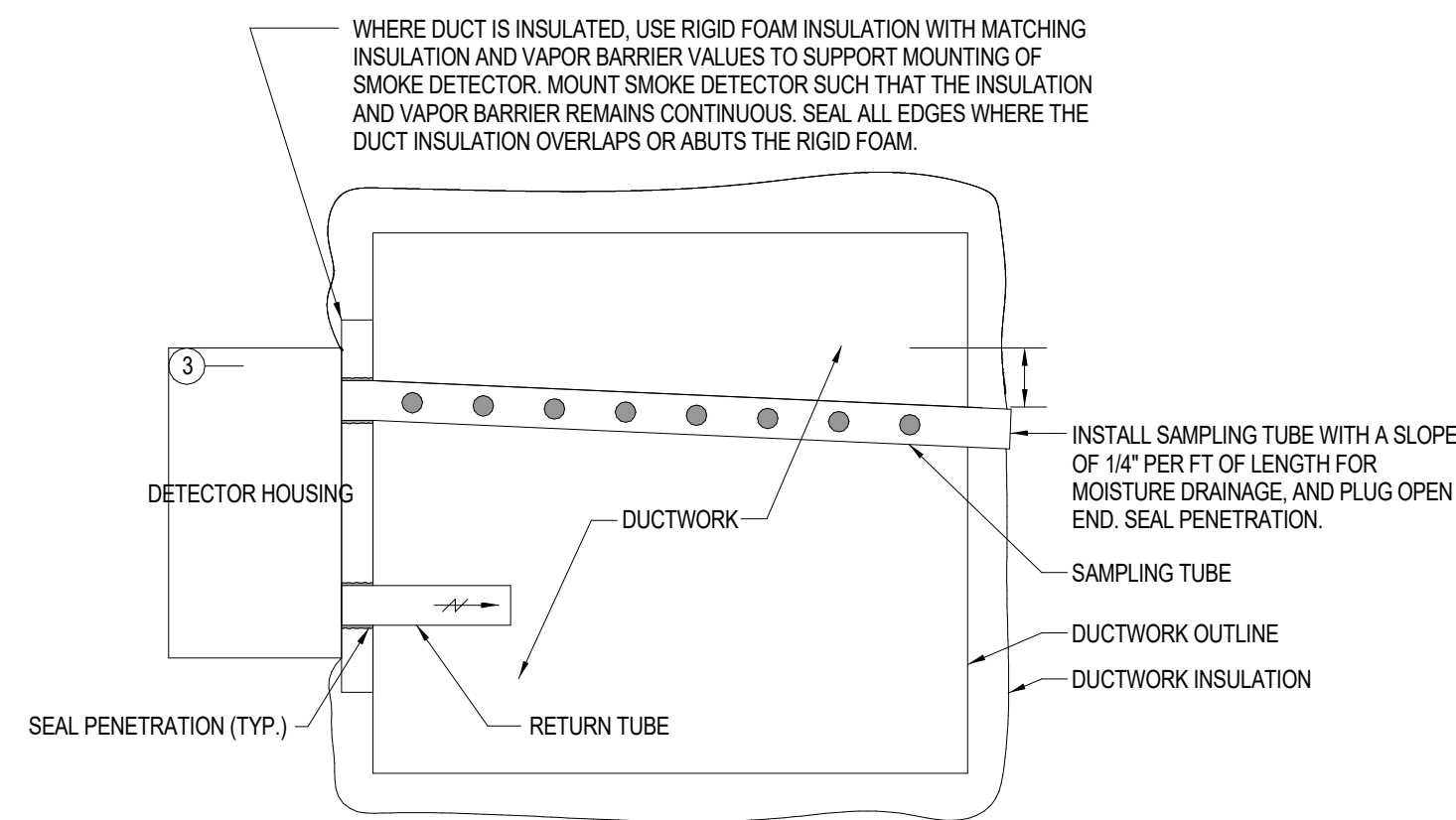
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**MECHANICAL
DETAILS**

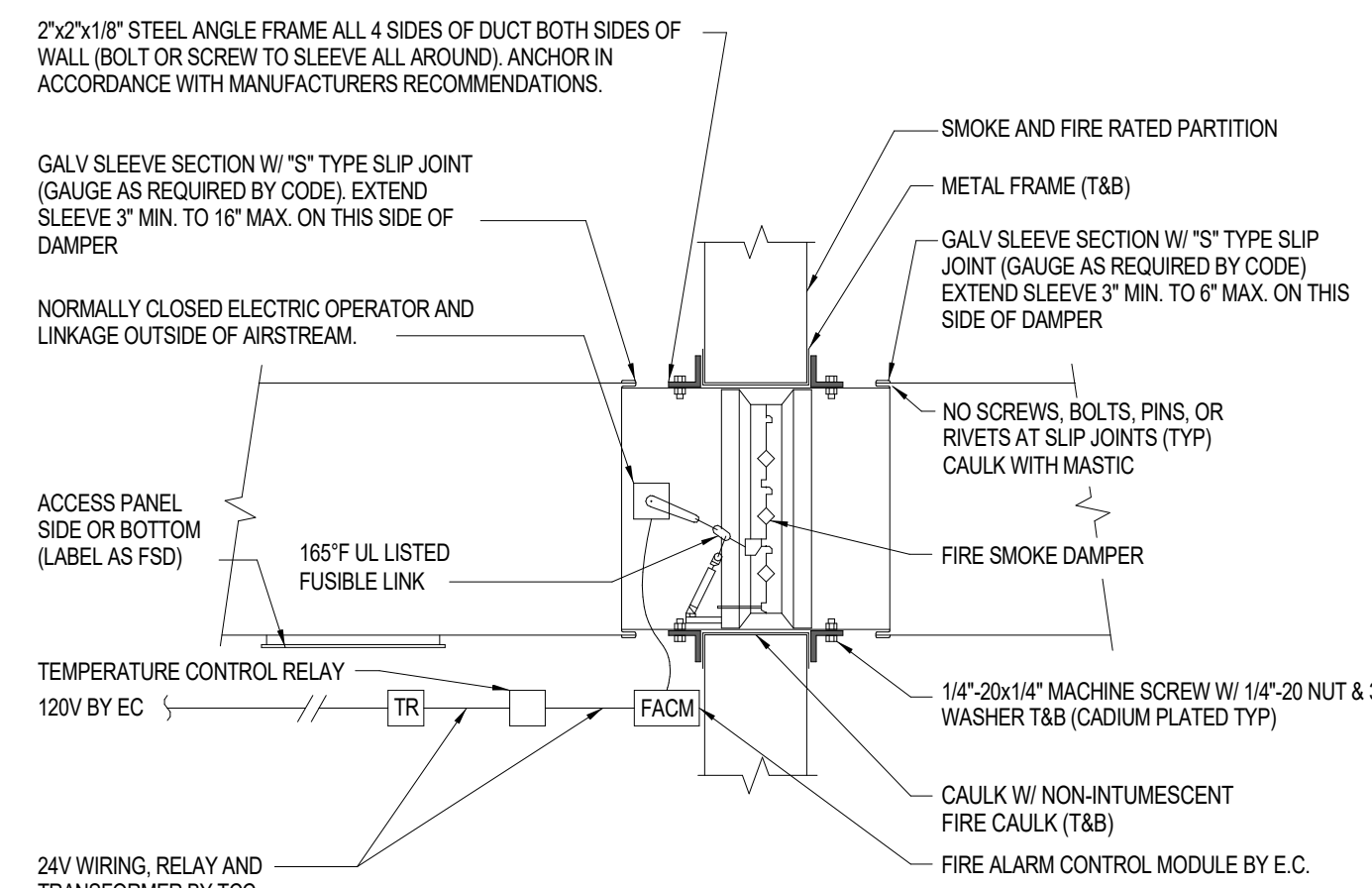
M504



NOTES:

1. SMOKE DETECTOR FURNISHED AND WIRED BY ELECTRICAL CONTRACTOR, AND MOUNTED BY MECHANICAL CONTRACTOR.
2. DUCT DETECTORS SHALL BE INSTALLED A MINIMUM OF 6 DUCT WIDTHS FROM BENDS ON THE RETURN SIDE, AND A MINIMUM OF 6 DUCT WIDTHS FROM THE RESPECTIVE UNIT'S SUPPLY OUTLET.
3. IDEAL AIR FLOW FOR A DUCT DETECTOR IS ONE THAT HAS UNIFORM FLOW ONE DIRECTION AND FREE OF TURBULENCE.
4. WHEN A DUCT DETECTOR IS USED FOR DAMPER CONTROL IT SHALL BE INSTALLED WITHIN 5FT OF THE DAMPER IT IS CONTROLLING, WITH NO INLET OR OUTLET BETWEEN THE DETECTOR OR DAMPER.
5. SAMPLING TUBE LENGTHS SHALL BE SELECTED BASED ON FINAL DUCT WORK SIZE. COORDINATE WITH MECHANICAL CONTRACTOR.
6. FINAL LOCATION OF DUCT DETECTOR WITHIN DUCTWORK SHALL BE COORDINATED WITH MECHANICAL CONTRACTOR TO ENSURE REQUIREMENTS NOTED ABOVE HAVE BEEN MET.
7. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
8. PROVIDE ACCESS DOOR AT SAMPLING TUBES FOR DAMPER APPLICATIONS. ACCESS DOOR SHALL BE LOCATED TO PERMIT INSPECTION OF SAMPLING TUBE AND DAMPER.
9. PRODUCT SHALL BE UL288A LISTED FOR DUCT MOUNTED SMOKE DETECTORS, OR UL288A FOR ALL OTHER SMOKE DETECTOR TYPES.
10. ELECTRICAL CONTRACTOR SHALL TEST ACCORDING TO UL AND APPLICABLE CODES WHILE IN THE PRESENCE OF THE AUTHORITY HAVING JURISDICTION.

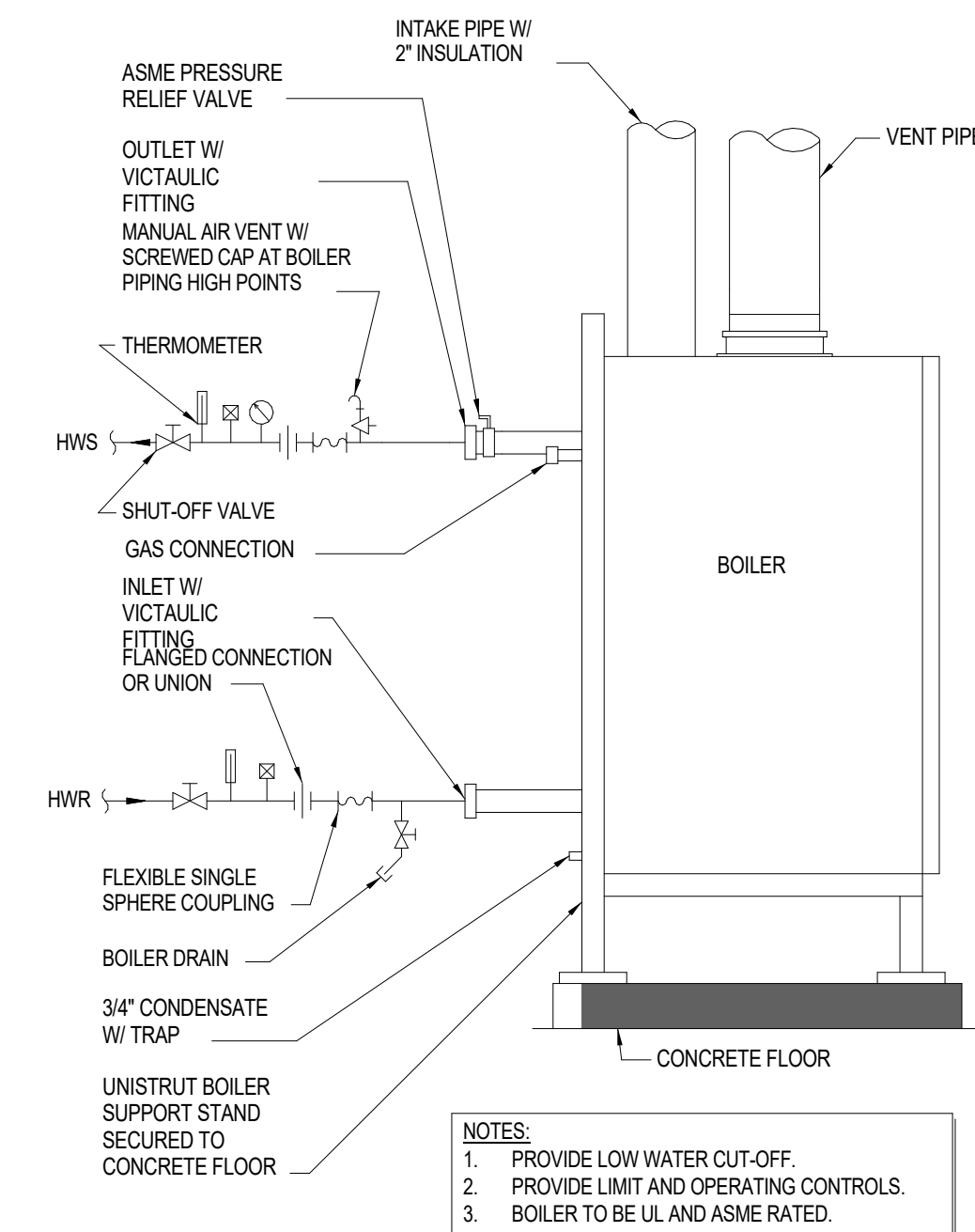
3 TYPICAL DUCT SMOKE DETECTOR MOUNTING DETAIL
NO SCALE



NOTES:

1. THE MOTORIZED OPERATOR FOR THE FIRE AND SMOKE DAMPER IN THE DUCT SHALL BE CONNECTED TO THE SAME BRANCH AS ITS RESPECTIVE FAN.
2. SMOKE DAMPER INSTALLATION IS SIMILAR BUT WITHOUT 165°F FUSIBLE LINK.
3. WALL OPENINGS TO BE DUCT DIMENSIONS PLUS 5/8".
4. ALL SMOKE DAMPERS AND THEIR RESPECTIVE DAMPER OPERATOR MECHANISMS SHALL BE UL LABELED AND TESTED AS AN ASSEMBLY WITH THE DAMPER OPERATOR MECHANISM FASTENED TO THE DAMPER SLEEVE.
5. DAMPERS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S INSTALLATION REQUIREMENTS. (SUBMIT WITH SHOP DRAWINGS)
6. PRODUCT TO MEET REQUIREMENTS SET IN UL LISTINGS 555 AND 555S.
7. HORIZONTAL AND VERTICAL INSTALLATION.
8. AFTER A MINIMUM OF 24 HOURS OF BEING ENERGIZED, TEST DAMPER IN PRESENCE OF OWNER AND FIRE MARSHALL IF REQUIRED, RECORD RESULTS FOR SUBMITTAL TO ENGINEER.

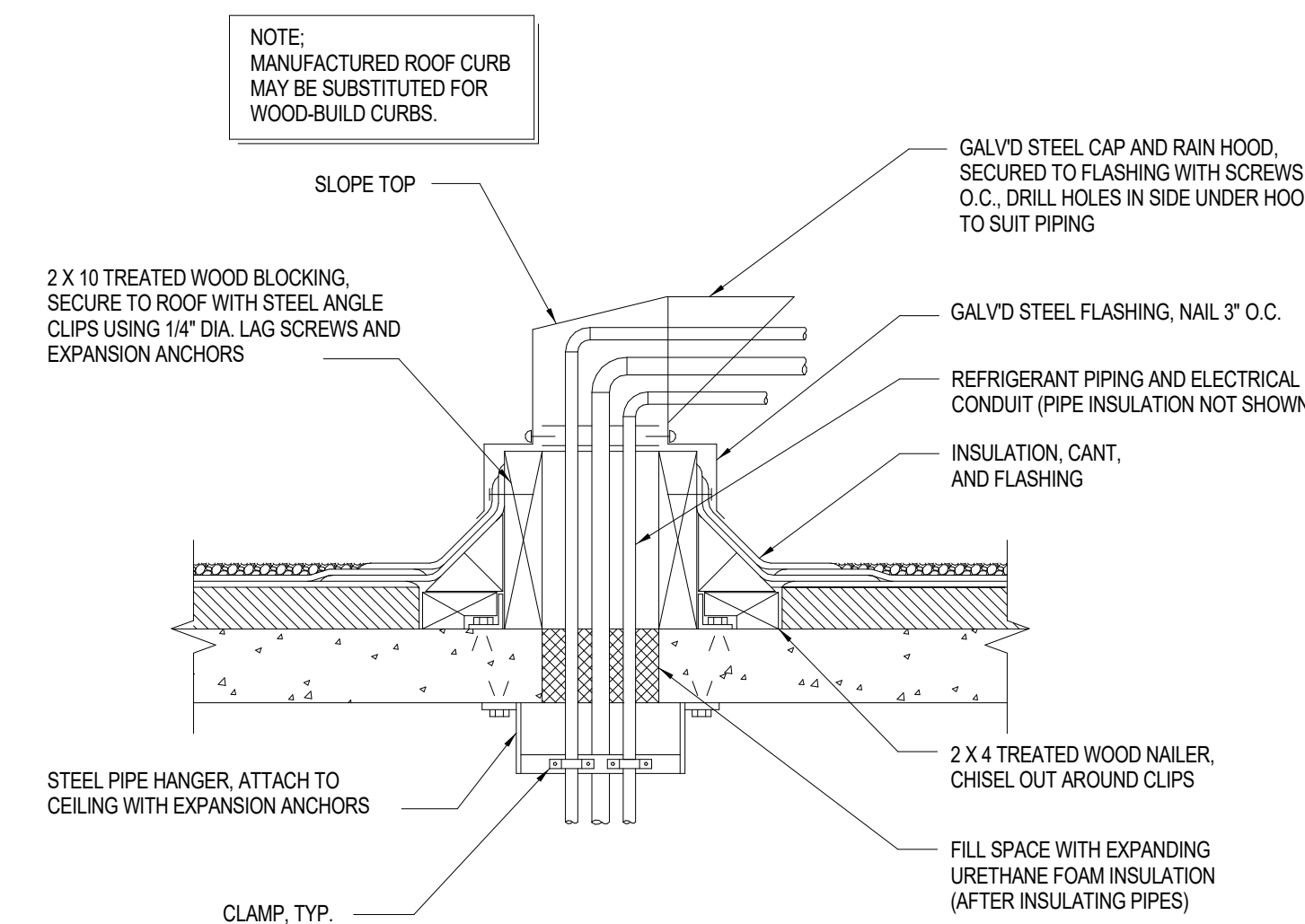
2 COMBINATION FIRE SMOKE DAMPER DETAIL
NOT TO SCALE



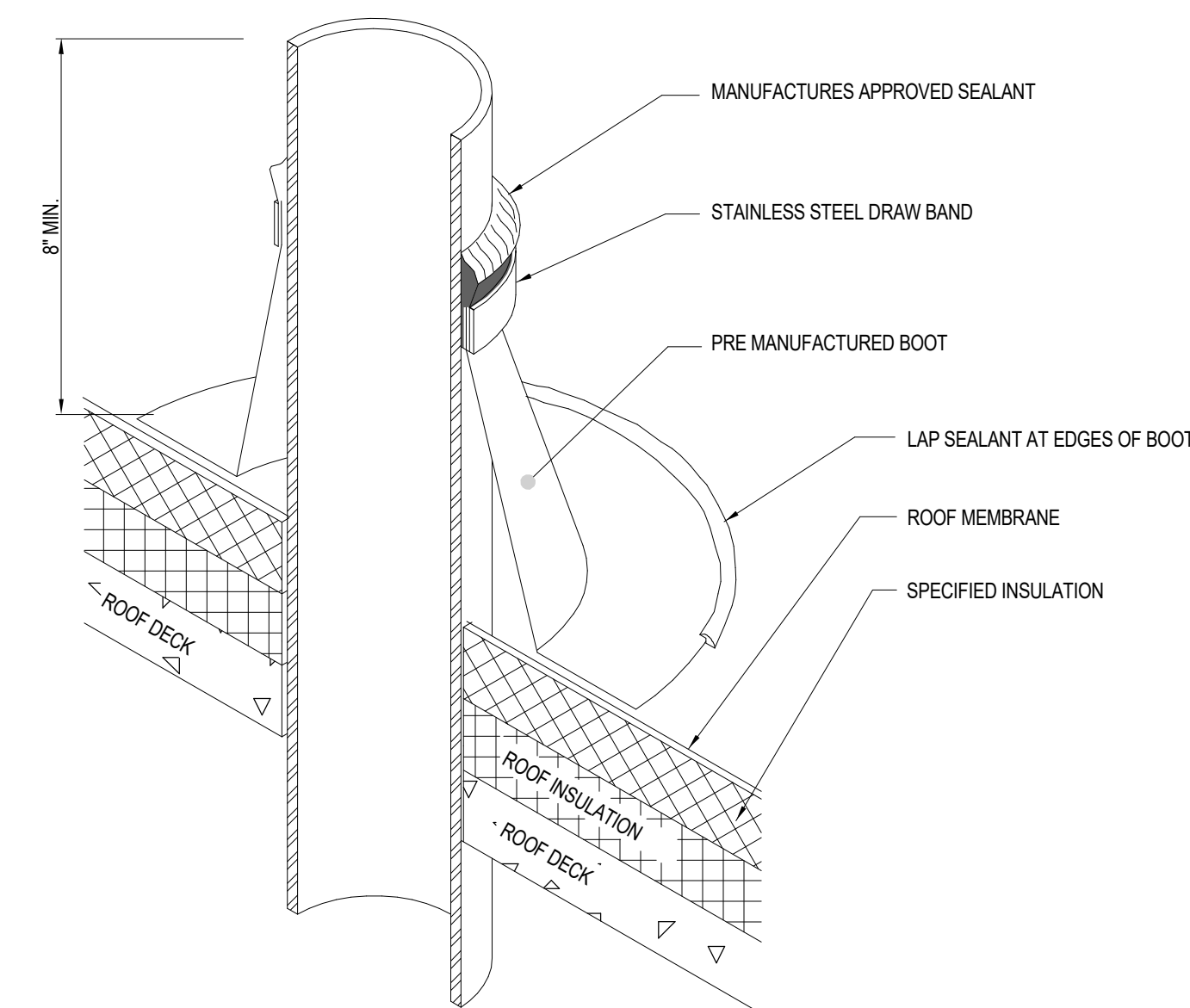
NOTES:

1. PROVIDE LOW WATER CUT-OFF.
2. PROVIDE LIMIT AND OPERATING CONTROLS.
3. BOILER TO BE UL AND ASME RATED.

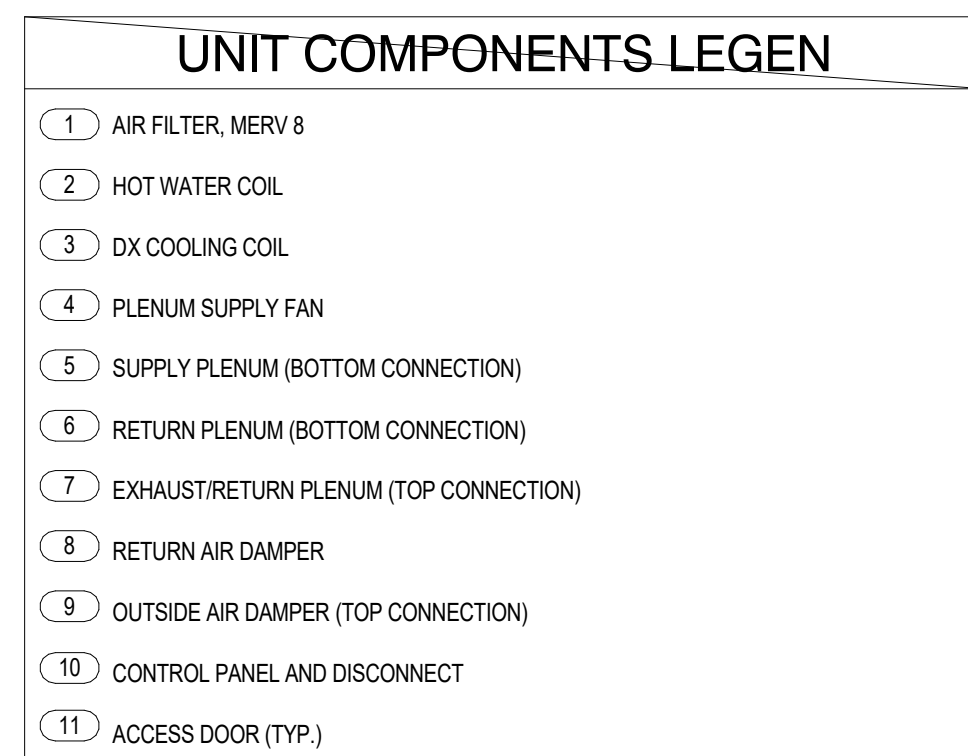
1 TYPICAL BOILER DETAIL
NOT TO SCALE



5 PIPE & CONDUIT ROOF PENETRATION DETAIL
NOT TO SCALE



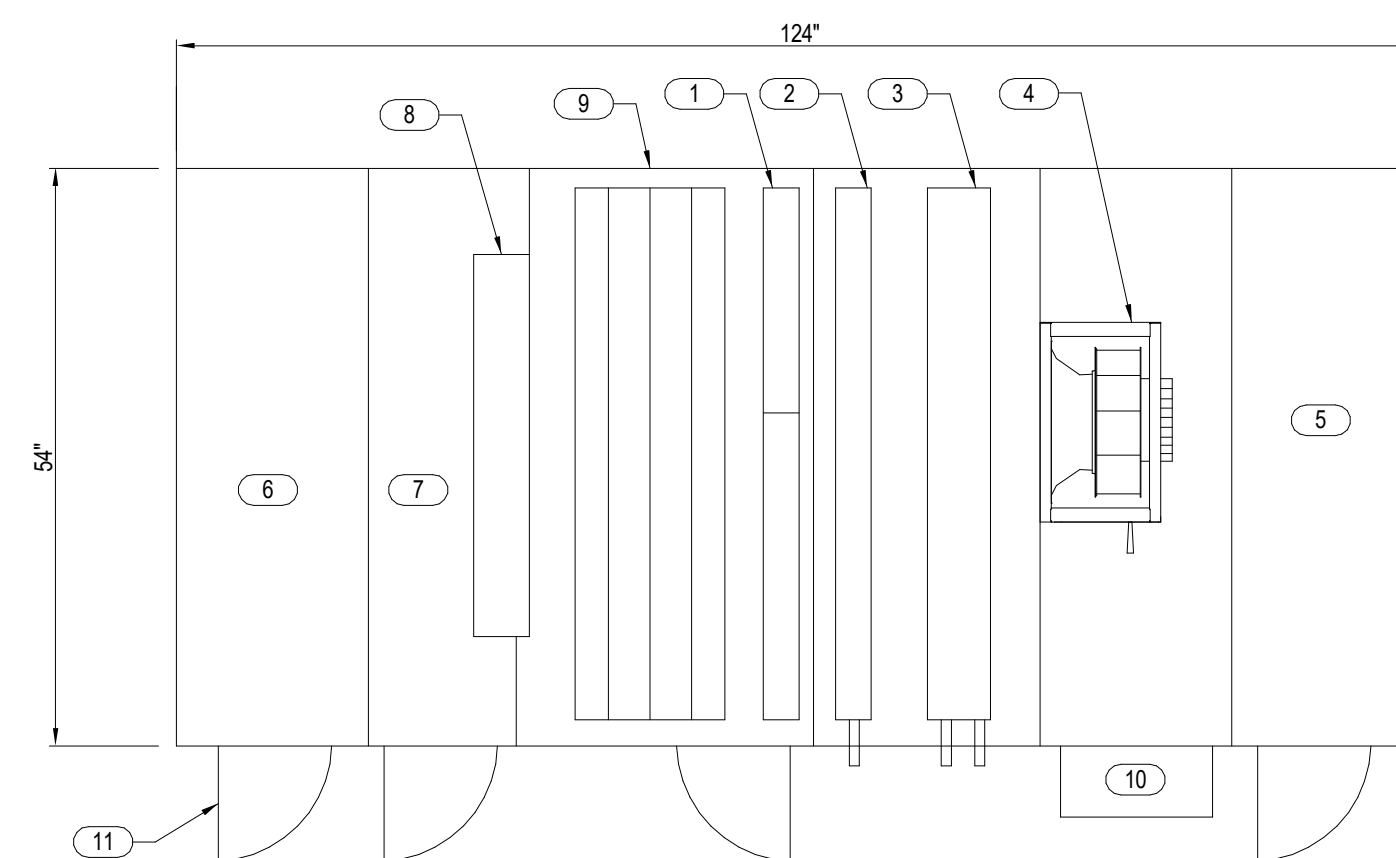
4 PIPE PENETRATION THROUGH ROOF
NOT TO SCALE



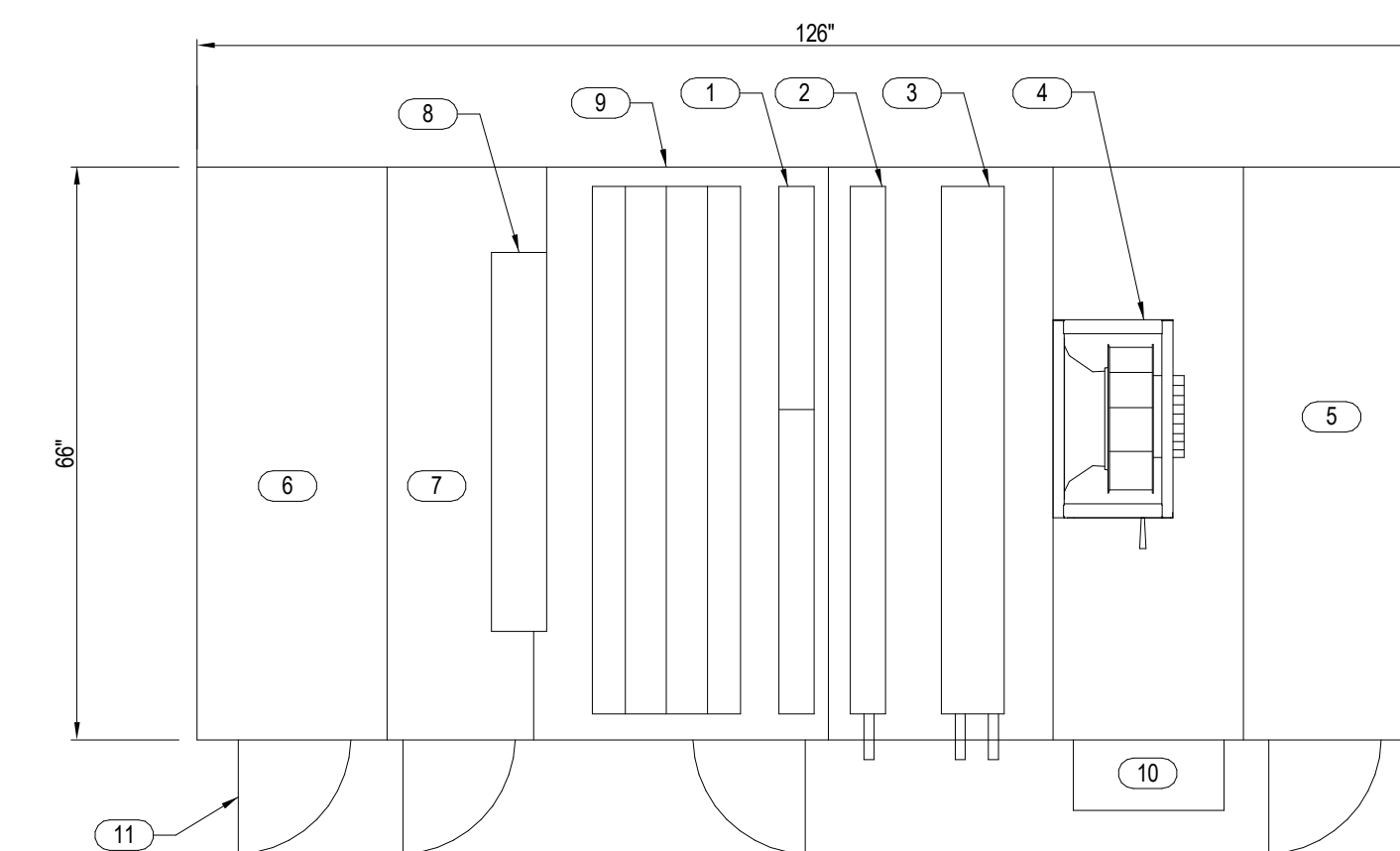
NOTES:

1. EACH AIR HANDLING UNIT SPLIT TO BE CAPABLE OF FITTING THROUGH A STANDARD 36" DOOR.
2. UNIT TO BE DISASSEMBLED INTO SECTIONS AND REASSEMBLED IN MECHANICAL ROOM.

6 AIR HANDLING UNIT COMPONENT DETAIL
NOT TO SCALE



AHU-2 COMPONENT LAYOUT



AHU-1 COMPONENT LAYOUT

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AIR COOLED CONDENSER SCHEDULE

TAG	LOCATION	SERVES	REFRIGERANT	DESIGN TONS	NO. OF CIRCUITS	SATURATED SUCTION (°F)	AMBIENT TEMP. (°F)	NO.	ELECTRICAL								WEIGHT (LBS)	MANUFACTURER	MODEL	NOTES	
									DISCONNECT		CONTROLLER/STARTER		VOLT	PHASE	SCCR	MCA					MOC P AMPS
									BY	TYPE	BY	TYPE									
ACC-1	ROOF	AHU-1	R-454B	25	2	45	95	4	208	3	10.0	98	125	MFR	NF	MFR	1518	AAON	CFA-025-C-A-8-LA00N	1-2	
ACC-2	ROOF	AHU-2	R-454B	20	2	45	95	2	208	3	10.0	72	100	MFR	NF	MFR	1436	AAON	CFA-020-C-A-8-LA00N	1-2	

- NOTES:**
1. PROVIDE UNIT WITH THRU-THE-DOOR DISCONNECT SWITCH.
2. PROVIDE UNIT WITH FIELD POWERED GFI CONVIENCE RECEPTACLE.

CABINET HEATER SCHEDULE - HOT WATER

TAG	LOCATION	TYPE	HOT WATER HEATING COIL								FAN				ELECTRICAL				DIMENSIONS			MANUFACTURER	MODEL	NOTES	
			MBH	EAT (°F)	LAT (°F)	NO. OF ROWS	GPM	EWT (°F)	LWT (°F)	MAX. W.P.D. (FT. HD)	QUANTITY	CFM	HP	SPEED CONTROL	VOLT/PH	DISCONNECT		CONTROLLER/STARTER		HEIGHT (IN.)	WIDTH (IN.)				DEPTH (IN.)
																BY	TYPE	BY	TYPE						
CUH-1	VESTIBULE 101	FLOOR MOUNTED	54	60	117	1	4.0	140	113.1	1.1	2.0	860	1/10	3-SPEED	120/1	MFR	NF	MFR	ECM	25	61	9.5	STERLING	FI-1050 SIZE 08	1,2
CUH-2	VESTIBULE 107	FLOOR MOUNTED	54	60	117	1	4.0	140	113.1	1.1	2.0	860	1/10	3-SPEED	120/1	MFR	NF	MFR	ECM	25	61	9.5	STERLING	FI-1050 SIZE 08	1,2
CUH-3	VESTIBULE 109	FLOOR MOUNTED	54	60	117	1	4.0	140	113.1	1.1	2.0	860	1/10	3-SPEED	120/1	MFR	NF	MFR	ECM	25	61	9.5	STERLING	FI-1050 SIZE 08	1,2

- NOTES:**
1. SEE SPECIFICATION SECTION [23 82 00] FOR ADDITIONAL INFORMATION.
2. COORDINATE COLOR SELECTION WITH ARCHITECT.

FAN SCHEDULE

TAG	AREA SERVED	SYSTEM	TYPE	FAN DATA								ELECTRICAL								WEIGHT	MANUFACTURER	MODEL	NOTES
				CFM	BHP	MHP	RPM	DRIVE	S.P. (IN. W.C.)	WHEEL DIA. (IN.)	BACKDRAFT DAMPER	VOLT	PHASE	FREQUENCY (HZ)	DISCONNECT		CONTROLLER/STARTER						
															BY	TYPE	BY	TYPE					
EF-1	AHU-1	AHU-1	PRV	9,000	3.4	5.0	794	DIRECT	1.25	30.5	YES	208	3	60	EC	NF	MFR	ECM	302	GREENHECK	G-300-VG	1,2,3,7	
EF-2	GENERAL EXHAUST	AHU-1,2	PRV	900	0.18	0.50	1,259	DIRECT	0.75	13.1	YES	115	1	60	EC	NF	MFR	ECM	47	GREENHECK	G-120-VG	1,2,3,7	
EF-3	AHU-2	AHU-2	PRV	6,000	2.3	3	958	DIRECT	1.25	24.5	YES	208	3	60	EC	NF	MFR	ECM	209	GREENHECK	G-240-VG	1,2,3,7,8	
EF-4	AHU-2	AHU-2	PRV	1,076	0.21	1.00	1,053	DIRECT	0.75	NA	NO	208	1	60	EC	NF	MFR	ECM	94	CAPTIVEAIRE	DU85HFA	1,2,4,5,6,7	

- NOTES:**
1. SEE SPECIFICATION SECTION [23 34 00] FOR ADDITIONAL INFORMATION.
2. PROVIDE SHAFT GROUNDING AS REQUIRED IN THE MOTOR SPECIFICATION [22 05 13] [23 05 13].
3. TEMPERATURE CONTROLS CONTRACTOR TO PROVIDE MOTORIZE BACK DRAFT DAMPER.
4. PROVIDE FAN WITH HINGED ROOF CURB.
5. PROVIDE FAN WITH GREASE CUP/BOX.
6. SEE SHEET M801 THRU M808 FOR MORE DETAILS
7. PROVIDE FANS WITH 24" HIGH ROOF CURB.
8. INTERLOCK FAN WITH OPERATION OF AHU-1 AND AHU-2.

VAV TERMINAL SCHEDULE

TAG	SERVES	LEVEL	MINIMUM (CFM)	MAXIMUM (CFM)	INLET SIZE (IN.)	REHEAT COIL (AIR SIDE)				REHEAT COIL (WATER SIDE)				W.P.L. (FT. HD)	ROWS	MANUFACTURER	MODEL	NOTES
						AIRFLOW (CFM)	EAT (°F)	LAT (°F)	MBH	GPM	EWT (°F)	LWT (°F)						
VAV-1	106 ADULT EAST	1	520	1200	14	600	55	92	23.8	1.7	140	111	0.19	2	TITUS	DESV-14	1, 2	
VAV-2	102 FIREPLACE LOUNGE	1	520	1200	14	600	55	92	23.8	1.7	140	111	0.19	2	TITUS	DESV-14	1, 2	
VAV-3	105 ADULT WEST	1	520	630	10	520	55	85	16.9	1.4	140	116.3	0.23	2	TITUS	DESV-10	1, 2	
VAV-4	103 STORAGE, 104 STUDY	1	90	270	6	200	55	90	7.5	0.8	140	121.7	0.14	2	TITUS	DESV-06	1, 2	
VAV-5	108 LOBBY, 112 COMPUTERS	1	190	320	6	270	55	85	8.8	0.9	140	120	0.16	2	TITUS	DESV-06	1, 2	
VAV-6	111 HALLWAY, 116 DIRECTOR	1	90	250	6	250	55	85	8.3	0.8	140	120	0.14	2	TITUS	DESV-06	1, 2	
VAV-7	110 WORKROOM	1	135	400	8	200	55	94	8.5	0.8	140	119.3	0.19	2	TITUS	DESV-08	1, 2	
VAV-8	111 CORRIDOR	1	200	400	8	200	55	92	8.1	0.8	140	120.4	0.13	2	TITUS	DESV-08	1, 2	
VAV-9	201 KIDS	2	850	900	12	850	55	85	27.7	2.1	140	113.6	0.42	2	TITUS	DESV-12	1, 2	
VAV-10	202 SENSORY, 203 STUDY, 204 STUDY	2	110	320	6	200	55	90	7.5	0.8	140	121.7	0.14	2	TITUS	DESV-06	1, 2	
VAV-11	205 ADULTS	2	330	700	10	350	55	88.9	12.9	1.3	140	119.2	0.19	2	TITUS	DESV-10	1, 2	
VAV-12	208 TEENS	2	200	250	6	200	55	90	7.5	0.8	140	121.7	0.14	2	TITUS	DESV-06	1, 2	
VAV-13	210 MEETING	2	700	750	10	700	55	85	22.8	3.1	140	124.8	0.62	2	TITUS	DESV-10	1, 2	
VAV-14	207 STAIR, 213 STAIR, 214 STORAGE	2	180	530	10	530	55	85	17.2	1.5	140	116.4	0.24	2	TITUS	DESV-10	1, 2	
VAV-15	209 STAFF	2	135	300	6	150	55	90	7.5	0.8	140	121.7	0.14	2	TITUS	DESV-06	1, 2	
VAV-16	FLEX SPACE 312	3	400	1100	12	550	55	85	17.8	1.3	140	111.1	0.21	2	TITUS	DESV-12	1, 2	
VAV-17	DEMO KITCHEN 313	3	285	945	10	475	55	92.7	11.7	1.3	140	121.1	0.19	2	TITUS	DESV-10	1, 2	
VAV-18	STAFF LOUNGE 311	3	200	410	8	210	55	92	8.1	0.8	140	120.4	0.13	2	TITUS	DESV-08	1, 2	
VAV-19	MEETING ROOM 307	3	200	400	8	200	55	92	8.1	0.8	140	120.4	0.13	2	TITUS	DESV-08	1, 2	
VAV-20	MEETING ROOM 306	3	200	450	8	225	55	90	8.5	0.8	140	119.3	0.16	2	TITUS	DESV-08	1, 2	
VAV-21	MEETING ROOM 301	3	800	2200	16	1100	55	85	36	2.9	140	115.1	0.27	2	TITUS	DESV-16	1, 2, 3	
VAV-22	DIGITAL LAB 308	3	150	250	6	200	55	88	7.2	0.8	140	122.6	0.16	2	TITUS	DESV-06	1, 2	

- NOTES:**
1. SEE SPECIFICATION SECTION [23 36 00] FOR ADDITIONAL INFORMATION.
2. REFER TO SECTION 23 09 93 FOR SEQUENCE OF OPERATIONS FOR EACH VAV CONTROL TYPE.
3. PROVIDE DAMAND CONTROL CO2 SENSOR FOR SCHEDULE VAV TERMINAL UNIT.

AIR HANDLING UNIT SCHEDULE

SYMBOL	AHU-1		AHU-2
	1ST AND 2ND FLOOR	3RD FLOOR	
SERVICE			
SUPPLY FAN			
	CFM	9,000	6,000
	MINIMUM CFM	2,250	1,500
	EXTERNAL STATIC PRESSURE	2.00	2.00
	FAN RPM	2,703	1,589
	FAN QUANTITY	4	1
	BHP (PER FAN)	2.01	6.19
	MHP (PER FAN)	3.5	7.3
	DISCONNECT BY	MFR	MFR
	DISCONNECT TYPE	FUSED	FUSED
	CONTROLLER/STARTER BY	MFR	MFR
	CONTROLLER/STARTER TYPE	INTEGRATED DRIVE	INTEGRATED DRIVE
MINIMUM OUTSIDE AIR CFM		2,000	1,500
FAN VOLT - PHASE		208/3	208/3
FAN CIRCUIT MCA/MOP		37.4/45.0	23.13/40.0
CONTROL PANEL VOLT - PHASE		120/3	120/3
CONTROL PANEL MCA/MOP		2.0/10.0	2.0/10.0
HEATING COIL - HOT WATER			
	EAT °F	46.3	46.3
	LAT °F	75.4	75.4
	EWT °F	140	140
	LWT °F	100	100
	GPM	15.0	10.0
	MBH	287.3	191.1
	MAX. A.P.D. IN. W.C.	0.14	0.26
	W.P.D. FEET HEAD	0.80	0.60
COOLING COIL - DX			
	EAT °F DB	77.8	80
	EAT °F WB	64.1	67
	MAX. LAT °F DB	55	55.5
	LAT °F WB	53	54
	TOTAL MBH	294	241
	MAX. A.P.D. IN. W.C.	0.62	0.85
	SAT SUCTION °F	45	45
	REFRIGERANT	R410A	R410A
	FACE VELOCITY (FPM)	453.0	502.0
	CIRCUITING	2	2
FILTER			
	TYPE - PRE	MERV 8	MERV 8
	PRE-FILTER MAX. PRESSURE DROP (IN. WC.) - CLEAN/DIRTY	0.6/1.0	0.6/1.0
	VELOCITY (FPM)	477	477
UNIT OVERVIEW			
	DIMENSIONS (HxWxD)	66"x66"x138"	52"x54"x126"
	WEIGHT (LBS)	3750	2587
MANUFACTURER		DAIKIN	DAIKIN
MODEL NUMBER		CAH021GDGM	CAH013GDGM
REMARKS		1,2	1,2

- NOTES:**
1. PROVIDE UNIT WITH 100% ECONOMIZER.
2. PROVIDE UNIT WITH MANUFACTURER SUPPLIED DISCONNECT.

FIN TUBE RADIATION SCHEDULE

TAG	LOCATION	SIZE	MAX. CAPACITY (BTU/HFT)	HOT WATER			FINS PER FT	MANUFACTURER	MODEL	NOTES
				AVE. TEMP. (°F)	GPM					
FT-1	102 FIREPLACE LOUNGE	3.75 x 2.75	370	130.0	1.1	50	STERLING	JVK-S11 R04	1,2	
FT-2	106 ADULTS EAST	3.75 x 2.75	370	130.0	1.1	50	STERLING	JVK-S11 R04	1,2	
FT-3	110 WORKROOM	3.75 x 2.75	370	130.0	0.5	50	STERLING	JVK-S11 R04	1,2	
FT-4	201 KIDS	3.75 x 2.75	370	130.0	2.0	50	STERLING	JVK-S11 R04	1,2	
FT-5	205 ADULTS	3.75 x 2.75	370	130.0	0.8	50	STERLING	JVK-S11 R04	1,2	
FT-6	208 TEENS	3.75 x 2.75	370	130.0	0.5	50	STERLING	JVK-S11 R04	1,2	
FT-7	210 MEETING	3.75 x 2.75	370	130.0	0.5	50	STERLING	JVK-S11 R04	1,2	
FT-8	214 STORAGE	3.75 x 2.75	370	130.0	0.5	50	STERLING	JVK-S11 R04	1,2	
FT-9	213 HALL	3.75 x 2.75	370	130.0	0.5	50	STERLING	JVK-S11 R04	1,2	
FT-10	304 HALL	3.75 x 2.75	370	130.0	0.5	50	STERLING	JVK-S11 R04	1,2	
FT-11	301 MEETING	3.75 x 2.75	370	130.0	2.5	50	STERLING	JVK-S11 R04	1,2	
FT-12	305 STORAGE	3.75 x 2.75	370	130.0	0.5	50				

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**MECHANICAL
SCHEDULES**

HOT WATER BOILER SCHEDULE

TAG	LOCATION	INPUT CAPACITY (MBH)	OUTPUT CAPACITY (MBH)	FLUID	DESIGN FLOW RATE (GPM)	MINIMUM FLOW RATE (GPM)	EWT (°F)	LWT (°F)	MAX. OPERATING PRESSURE (PSIG)	BURNER REQUIREMENTS			ELECTRICAL				GAS CONNECTION (IN.)	WATER CONNECTION (IN.)	FLUE DIAMETER (IN.)	MANUFACTURER	MODEL	NOTES	
										TYPE	INLET FUEL PRESSURE (IN. WC.)		FLA	VOLTS/PHASE	DISCONNECT								CONTROLLER/STARTER
											MIN.	MAX.			BY	TYPE							
B-3	BASEMENT MECHANICAL	530	495	WATER	33	9	110	140	80	NG	4	14	12	120/1	MFR	NF	MFR	1	2	4	VISSMANN	VITODENS 200-W	1-6

NOTES:
1. REFER TO SPECIFICATION SECTION 23 52 00.
2. PROVIDE UNIT WITH PRESSURE RELIEF VALVE. RELIEF VALVE SETTING = 80 PSIG.
3. UNIT SHALL BE FURNISHED WITH CONDENSATE NEUTRALIZER KIT. SIZE AND NEUTRALIZER MATERIAL SHALL BE DETERMINED BY BOILER MANUFACTURER.
4. UNIT SHALL BE FLOOR MOUNTED ON EXISTING CONCRETE PAD ADJACENT TO EXISTING BOILER (B-1 AND B-2).
5. PROVIDE COMBINATION VENT/INTAKE TERMINATION KIT. COORDINATE LENGTH REQUIRED TO MAINTAIN PROPER DISTANCE FROM EXISTING BOILER'S COMBINATION VENT/INTAKE TERMINATION KIT.
6. BOILER SHALL BE PROVIDED WITH BOILER SEQUENCING CONTROL MODULE.

PUMP SCHEDULE

TAG	SERVES	PUMP TYPE	DESIGN FLOW (GPM)	DESIGN HEAD (FT. HD)	MINIMUM FLOW @ 30%	MOTOR			VOLT	PHASE	FREQUENCY (HZ)	ELECTRICAL		PUMP SIZE (IN.)		IMPELLER SIZE (IN.)	WEIGHT (LBS)	MANUFACTURER	MODEL	NOTES		
						BHP	HP	RPM				BY	TYPE	BY	TYPE							
																					DISCONNECT	CONTROLLER/STARTER
HWP-1	HEATING LOOP	INLINE	90.0	65	27	2.1	3.0	3,392	230	3	60	EC	NF	MC	VFD	1.5	1.5	4.375	67	GRUNDFOS	e-90 1.5AAB	1-3
HWP-2	HEATING LOOP	INLINE	90.0	65	27	2.1	3.0	3,392	230	3	60	EC	NF	MC	VFD	1.5	1.5	4.375	67	GRUNDFOS	e-90 1.5AAB	1-3
P-3	B-3	INLINE	33.0	15	10	0.436	0.496	NA	208	1	60	EC	NF	MFR	ECM	GF	GF	NA	17.9	GRUNDFOS	UPS43-100F	1,2

NOTES:
1. REFER TO SPECIFICATION SECTION 23 21 23 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
2. PROVIDE SHAFT GROUNDING AS REQUIRED PER MOTOR SPECIFICATION 23 05 13.
3. MECHANICAL CONTRACTOR TO SUPPLY VFD, INSTALLED BY ELECTRICAL CONTRACTOR.

HOOD SCHEDULE

TAG	LOCATION	SERVES	CFM	MAX. FACE VELOCITY (FPM)	PRESS. DROP (IN. W.C.)	THROAT SIZE (W x L) (IN.)	HOOD SIZE (W x L) (IN.)	FREE AREA (SF)	MAX. HEIGHT (TOP OF CURB TO TOP OF EQUIPMENT)	TYPE	DAMPER TYPE	CURB	WEIGHT (LBS)	MANUFACTURER	MODEL	NOTES
IH-1	ROOF	AHU-2	6,000	350	0.02	48x52	87x93	17	37	LOUVERED PENTHOUSE	MOTORIZED	24"	335	GREENHECK	FGI 48x52	1

NOTES:
1. SEE SPECIFICATION SECTION [23 33 00] FOR ADDITIONAL INFORMATION.

GREASE HOOD SCHEDULE

TAG	LOCATION	SERVES	CFM	HOOD TYPE	HOOD CONSTRUCTION	EXHAUST RISER SIZE (DIA.) (IN.)	HOOD SIZE (W x L) (IN.)	FILTER TYPE	UTILITY CABINET SIZE (LxWxH) (IN.)	WEIGHT (LBS)	MANUFACTURER	MODEL	NOTES
GH-1	DEMO KITCHEN 313	EF-4	1,076	1	430 SS	10	48x48	SS BAFFLE	12x48x24	449	ECON-AIR	4842 EX-2WI	1,2

NOTES:
1. SEE SPECIFICATION SECTION [23 33 00] FOR ADDITIONAL INFORMATION.
2. SEE SHEET M801 THRU M808 FOR MORE DETAILS.

UNIT HEATER SCHEDULE - HOT WATER

TAG	LOCATION	FAN DATA				ELECTRICAL		HOT WATER HEATING COIL										MANUFACTURER	MODEL	NOTES
		CFM	HP	RPM	VOLT	PHASE	DISCONNECT		BY	MBH	EAT (°F)	LAT (°F)	EWT (°F)	LWT (°F)	GPM	W.P.D. (FT. HD)				
							BY	TYPE												
UH-1	303 STORAGE	245	16 WATTS	1550.0	115	1	EC	NF	REMOTE THERMOSTAT	4.6	60	91	140	120	0.8	0.8	STERLING	108A	1	
UH-2	316 STORAGE	245	16 WATTS	1550.0	115	1	EC	NF	REMOTE THERMOSTAT	4.6	60	91	140	120	0.8	0.8	STERLING	108A	1	

NOTES:
1. SEE SPECIFICATION SECTION [23 82 00] FOR ADDITIONAL INFORMATION.

GRILLES REGISTERS & DIFFUSERS SCHEDULE

TAG	MATERIAL	TYPE	INLET SIZE (INCH)	FACE SIZE (INCH)	FINISH	MANUFACTURER	MODEL	REMARKS
CD-1	STEEL	PLAQUE DIFFUSER	6	24x24	WHITE	KRUEGER	1400	NOTE 1
CD-2	STEEL	PLAQUE DIFFUSER	8	24x24	WHITE	KRUEGER	1400	NOTE 1
CD-3	STEEL	PLAQUE DIFFUSER	10	24x24	WHITE	KRUEGER	1400	NOTE 1
SD-1	STEEL	PLENUM SLOT DIFFUSER	6	48	WHITE	KRUEGER	PTBS	48" LONG, 3/4" SLOT, 2 SLOT
SD-2	STEEL	PLENUM SLOT DIFFUSER	8	48	WHITE	KRUEGER	PTBS	48" LONG, 1" SLOT, 2 SLOT
SG-1	STEEL	DOUBLE DEFLECTION	SEE PLAN	INLET +2	WHITE	KRUEGER	880	-
RG-1	STEEL	PERFORATED FACE	SEE PLAN	24x24	WHITE	KRUEGER	EGC-5	-
RG-2	STEEL	PERFORATED FACE	SEE PLAN	12x12	WHITE	KRUEGER	EGC-5	-
EG-1	STEEL	PERFORATED FACE	6	12x12	WHITE	KRUEGER	EGC-5	-
TG-1	STEEL	SINGLE DEFLECTION	SEE PLAN	INLET +2	WHITE	KRUEGER	EGC-5	-

NOTES:
1. ALL RUN OUT DUCTWORK TO DIFFUSERS SHALL BE NECK SIZE UNLESS OTHERWISE NOTED.

RADIANT CEILING PANEL

TAG	LOCATION	LENGTH (FT.-IN.)	WIDTH (FT.-IN.)	MAX. CAPACITY (BTU/HFT)	HOT WATER		MANUFACTURER	NOTES
					AVE. TEMP. (°F)	GPM		
RCP-1	JC 113	2'-0"	2'-0"	213	130	0.5	STERLING	1
RCP-2	RR 115	2'-0"	2'-0"	213	130	0.5	STERLING	1
RCP-3	RR 212	2'-0"	2'-0"	213	130	0.5	STERLING	1
RCP-4	RR 211	2'-0"	2'-0"	213	130	0.5	STERLING	1
RCP-5	RR 314	2'-0"	2'-0"	213	130	0.5	STERLING	1
RCP-6	RR 315	2'-0"	2'-0"	213	130	0.5	STERLING	1

NOTES:
1. SEE SPECIFICATION SECTIONS [23 83 14] [23 81 16] FOR ADDITIONAL INFORMATION.



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KITCHEN HOOD

M801

FOR QUESTIONS, CALL THE
Wisconsin Mechanical
REGION 134
PHONE: (608) 405 - 2039
EMAIL: rj134@econair.com

HOOD INFORMATION - JOB#7150115

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S)					HOOD CONSTRUCTION	HOOD CONFIG		
										WIDTH	LENG	HEIGHT	DIA	CFM		VEL	SP	END TO
1		4824 EK-2WI	ECON-AIR	4'0"	450 DEG	I	MEDIUM	269	1076	4"	10"	1076	1973	-0.524"	430 SS	WHERE EXPOSED	ALONE	ALONE

HOOD INFORMATION

HOOD NO	TAG	TYPE	FILTER(S)			EFFICIENCY @ 7 MICRONS	QTY	LIGHT(S)			WIRE GUARD	LOCATION	SIZE	UTILITY CABINET(S)		ELECTRICAL MODEL #	SWITCHES QUANTITY	FIRE SYSTEM PIPING	HOOD SYSTEM HANGING WEIGHT
			QTY	HEIGHT	LENGTH			TYPE	TYPE	SIZE									
1		SS BAFFLE WITH HANDLES	2	18"	20"	30%	1	RECESSED ROUND	NO	RIGHT	12"x48"x24"	TANK FS	4.0	SC-110110MA	1 LIGHT 1 FAN	YES	482 LBS		

HOOD OPTIONS

HOOD NO	TAG	OPTION
1		FIELD WRAPPER 18.00" HIGH FRONT, LEFT, RIGHT, BACK. FINISHED BACK- IS/REV INSTALL 48.00" LONG, (FILTERS TO THE FRONT). RISER SENSOR INSTALL 6IN PLEN.

GREASE DUCT & CHIMNEY SPECIFICATIONS:
 PROVIDE GREASE DUCT EQUAL TO ECON-AIR MODEL "EDW" ROUND 20 GAUGE 430 STAINLESS STEEL DUCTWORK. MODEL "EDW" IS LISTED TO UL-1978 AND IS INSTALLED USING "V" CLAMP LOCKING CONNECTIONS SEALED WITH 3M FIRE BARRIER 2000 PLUS. MODEL "EDW" DOES NOT REQUIRE WELDING PROVIDING IT HAS BEEN INSTALLED PER THE MANUFACTURES INSTALLATION GUIDE.
 PROVIDE RATED ACCESS DOORS AT EVERY CHANGE IN DIRECTION AND EVERY 12' ON CENTER. PER MANUFACTURES LISTING MODEL "EDW" HORIZONTAL RUNS LESS THAN 75 FT. CAN BE SLOPED 1/16" PER 12", HORIZONTAL RUNS MORE THAN 75 FT. CAN BE SLOPED 3/16" PER 12". DUCT SHOULD BE SLOPED AS MUCH AS POSSIBLE TO REDUCE THE CHANCE OF GREASE ACCUMULATION IN HORIZONTAL RUNS.

 IF THE DUCT OR CHIMNEY IS WITHIN 18 INCHES OF COMBUSTIBLE MATERIAL, PROVIDE UL-2221 OR UL-103 HT LISTED DOUBLE WALL GREASE DUCT OR DOUBLE WALL CHIMNEY EQUAL TO ECON-AIR MODEL "EDW- 2R, 2R TYPE HT, 3R, OR 3Z" ROUND 20 GAUGE 430 STAINLESS INNER DUCT INSULATED WITH A 24 GAUGE 430 STAINLESS OUTER SHELL.

ECON-AIR RECOMMENDS THE USE OF LISTED, PRE-FABRICATED ROUND GREASE EXHAUST DUCT TO REDUCE STATIC PRESSURE IN THE SYSTEM, MINIMIZE INSTALLATION AND INSPECTION TIMES, AND ENSURE DUCT IS LIQUID TIGHT

HVAC DISTRIBUTION NOTE
HIGH VELOCITY DIFFUSERS OR HVAC RETURNS SHOULD NOT BE PLACED WITHIN TEN (10) FEET OF THE EXHAUST HOOD. PERFORATED DIFFUSERS ARE RECOMMENDED.

VERIFY CEILING HEIGHT

_ ' - _"

HEIGHT REQUIRED TO VERIFY THAT HOOD FITS SPACE AND TO SIZE THE ENCLOSURE PANELS

CUSTOMER APPROVAL TO MANUFACTURE:

APPROVED AS NOTED	<input type="checkbox"/>
APPROVED WITH NO EXCEPTION TAKEN	<input type="checkbox"/>
REVISE AND RESUBMIT	<input type="checkbox"/>
SIGNATURE _____	
YOUR TITLE _____	DATE _____

CLEARANCE TO COMBUSTIBLES

HOODS #	SURFACE	*CLEARANCE
1	TOP	18"
	FRONT	0"
	BACK	0"
	LEFT	18"
	RIGHT	0"

* 0" CLEARANCE TO COMBUSTIBLES CONFORMS TO UL710 STANDARD.
 ** HOOD MOUNTED UTILITY CABINETS REQUIRE 30" SERVICE CLEARANCE.

PLAN VIEW - HOOD #1
4' 0.00" LONG 4824EX-2WI

ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHORS. SINGLE HEX NUT BENEATH HANGING ANGLE IS ACCEPTABLE FOR FULL LENGTH HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

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	7150115
	DS-134
	3/4" = 1'-0"
	MASTER DRAWING

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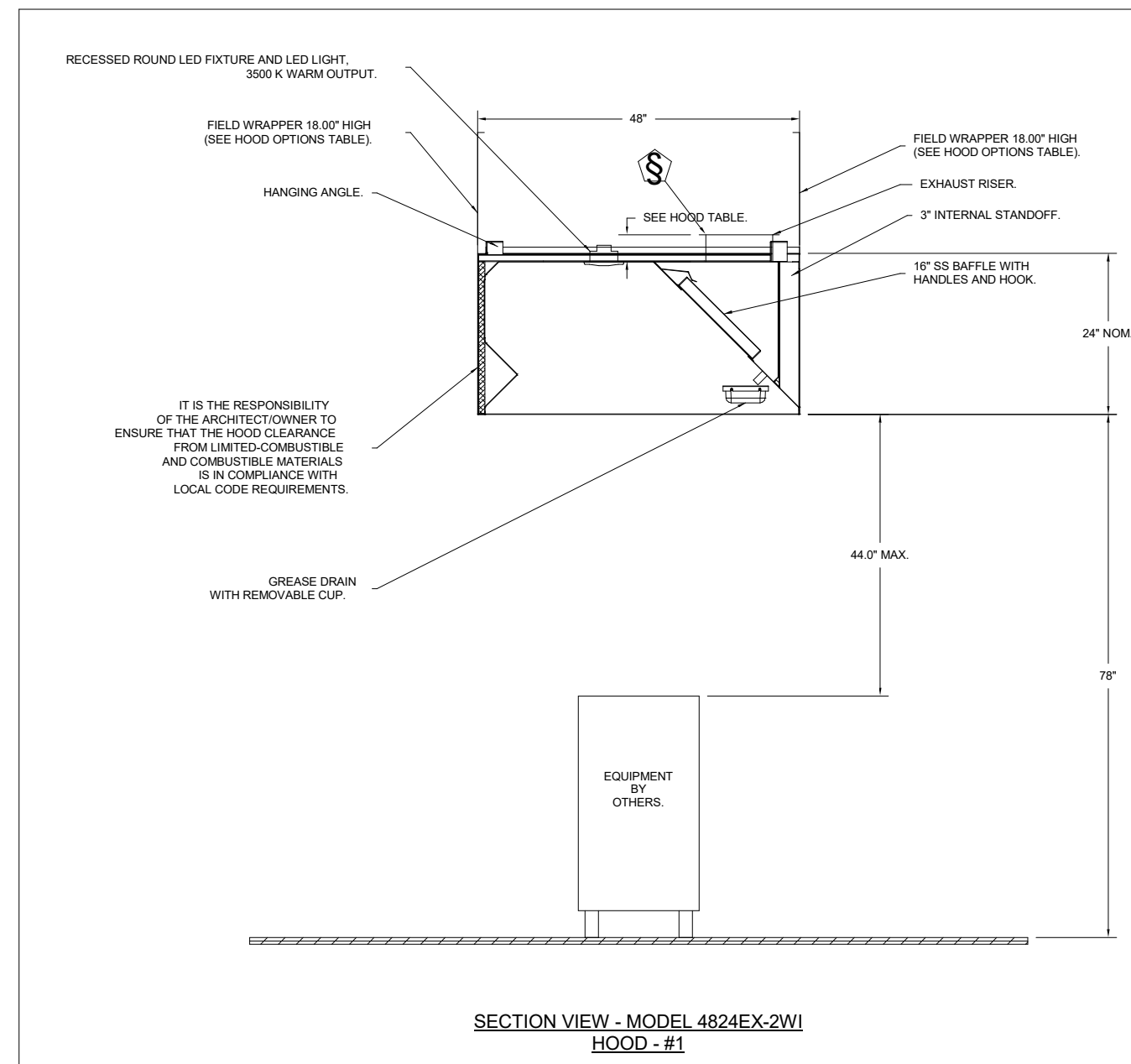
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KITCHEN HOOD

M802



SECTION VIEW - MODEL 4824EX-ZWI
HOOD - #1

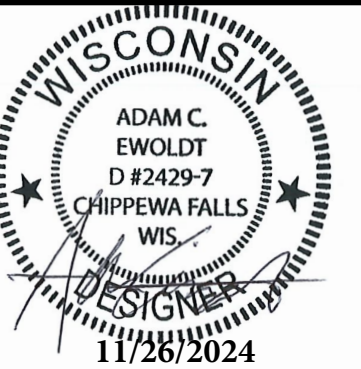
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KITCHEN HOOD

M803

FIRE SYSTEM INFORMATION - JOB#7150115							
FIRE SYSTEM NO	TAG	TYPE	SIZE	MAX FP	DESIGN FP	INSTALLATION	
						SYSTEM	LOCATION ON HOOD
1		TANK FS	4.0	20	18	FIRE CABINET RIGHT	RIGHT, HOOD 1

FIRE SYSTEM PARTS LIST KEY				
FIRE SYSTEM NO	TAG	KEY NUMBER - PART DESCRIPTION	QTY BY FACTORY	QTY BY DIST
		0-0 - TANK FIRE SUPPRESSION POST-DISCHARGE PROCEDURE UTILITY CABINET LABEL SHEET.	1	0
		0-0 - TANK FIRE SUPPRESSION MAINTENANCE GUIDE UTILITY CABINET LABEL SHEET	1	0
		1"-1/2" 1/2" PRO-ESS; 3/4" 1/2" 3/8" TIGHT FIRE THERMISTAT WITH 1/2" FOOT WIRE LEADS; NO. CLOSE ON TEMP RISE AT 360° F. (A0034310).	1	0
		0-0 - 4429K153 1/2" MALE NPT TO 1/2" FEMALE NPT ELBOW, BRASS.	1	0
		0-0 - 4429K422 1/2" X 1/4" BRASS REDUCING BUSHING.	1	0
		0-0 - 79525 1/2" 90 PRO-PRESS ELBOW WITH 1/2" NPT FEMALE CONNECTION, VIEGA.	1	0
		0-0 - 79580 1/2" X 1/2" PRO-PRESS TEE X 1/2" NPT FEMALE CONNECTION, VIEGA.	1	0
		0-0 - 87-30001-001 TANK - PRESSURIZED TANK USED FOR TANK FIRE SUPPRESSION.	1	0
		0-0 - 87-30000-001 PRIMARY ACTUATOR KIT (PAK) - ACTUATOR AND RELEASE SOLENOID ASSEMBLY, ONE NEEDED PER FIRE SYSTEM SUPERVEISED TANK FIRE SUPPRESSION.	1	0
		0-0 - 87-30015-001 HARDWARE, 6/16 BOLTS, TANK FIRE SUPPRESSION.	4	0
		0-0 - 8668A1115 HARDWARE, DATA LOCK LOCKING BRACKET SQUARE NUTS 5/16" ZINC, TANK FIRE SUPPRESSION.	2	0
		0-0 - A0034332 JUNCTION BOX FOR MANUAL PULL STATION, 1.5" DEEP BACK BOX, RED COLOR.	1	0
		0-0 - A31484 1/4" NPT SCHRAEDER VALVE AND CAP, JB INDUSTRIES, 1/4" FLARE X 1/4" NPT HALF UNION USED ON TANK.	1	0
		0-0 - 28362-000 DISCHARGE ADAPTER TANK LOCKING PLATE FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	1	0
		0-0 - TANK STRAP TANK STRAP - USED FOR TANK FIRE SUPPRESSION.	3	0
		0-0 - TANK STRAP TANK BRACKET TANK BRACKET FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	1	0
		0-0 - WK-28362-000 DISCHARGE ADAPTER, TANK FIRE SUPPRESSION.	1	0
		0-0 - A0034337 2AVDC SINGLE ACTION MANUAL ACTUATION DEVICE (PUSH/PULL STATION) WITH PROTECTIVE COVER, ONE (1) NORMALLY OPEN CONTACT, RED COLOR.	1	0
		ADDITIONAL PARTS TO BE DETERMINED.		

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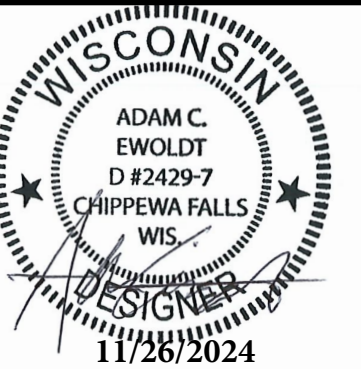
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EXHAUST FAN INFORMATION - JOB#7150115																
FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL.	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1		1	DURSHFA	CAPTIVEAIRE	1076	0.750	1053	TEAO-ECM	1.000	0.2050	1	208	6.9	341 FPM	94	6.9

FAN OPTIONS		DESCRIPTION	
FAN UNIT NO	TAG	QTY	DESCRIPTION
1		1	GREASE BOX
1		1	FAN BASE CERAMIC SEAL - DUOR8SHFA - INSTALLED AT PLANT - FOR GREASE DUCTS
1		1	ECM WIRING PACKAGE - PWM SIGNAL FROM ECPM03 PREWIRE (TELCO MOTOR), CCW ROTATION
1		1	2 YEAR PARTS WARRANTY

FAN ACCESSORIES		EXHAUST		SUPPLY				
FAN UNIT NO	TAG	GREASE CURB	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	TORORIZED DAMPER	WALL MOUNT
1		YES						

CURB ASSEMBLIES				
NO	ON FAN	WEIGHT	ITEM	SIZE
1	#1	36 LBS	CURB	23.000"X X 23.000"L X 20.000"H - INSULATED VENTED HINGED.

FAN#1 DURSHFA, EXHAUST FAN

TOP VIEW

FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS)
- ROOF MOUNTED FANS
- RESTAURANT MODEL
- UL715 AND UL712 AND ULC-8645
- VARIABLE SPEED CONTROL
- INTERNAL WIRING
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE)
- HIGH HEAT OPERATION 300°F (149°C)
- GREASE CLASSIFICATION TESTING
- NEMA 3R SAFETY DISCONNECT SWITCH

NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS

- GREASE BOX
- FAN BASE CERAMIC SEAL - DUOR8SHFA - INSTALLED AT PLANT - FOR GREASE DUCTS
- ECM WIRING PACKAGE - PWM SIGNAL FROM ECPM03 PREWIRE (TELCO MOTOR), CCW ROTATION
- 2 YEAR PARTS WARRANTY

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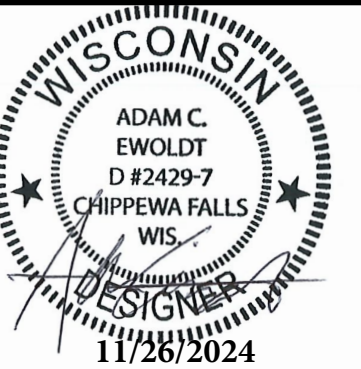
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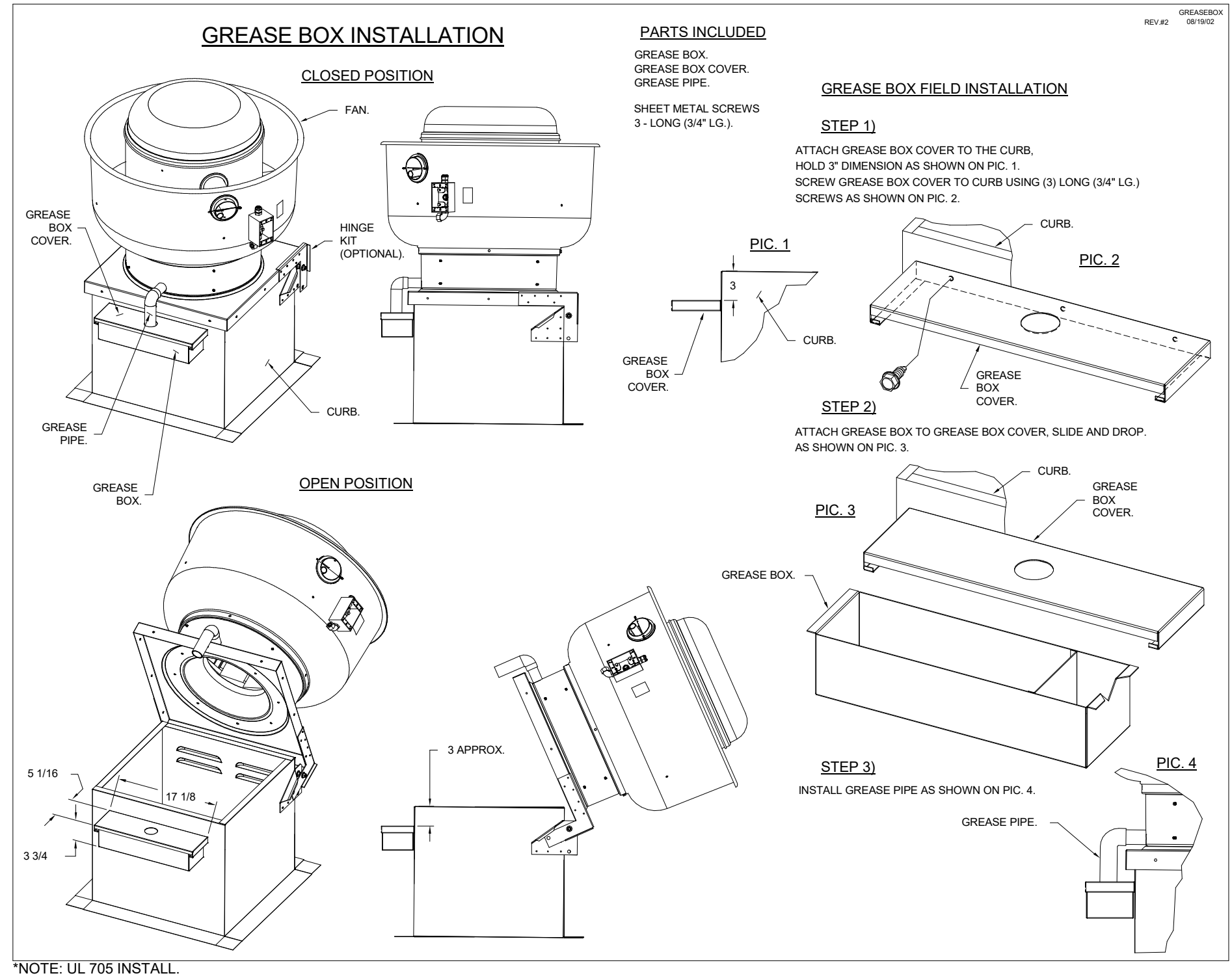
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GREASE DUCT & CHIMNEY SPECIFICATIONS:
 PROVIDE GREASE DUCT EQUAL TO ECON-AIR MODEL "EDW"
 ROUND 20 GAUGE 430 STAINLESS STEEL DUCTWORK. MODEL "EDW"
 IS LISTED TO UL-1978 AND IS INSTALLED USING "V" CLAMP LOCKING
 CONNECTIONS SEALED WITH 3M FIRE BARRIER 2000 PLUS. MODEL "EDW"
 DOES NOT REQUIRE WELDING PROVIDING IT HAS BEEN INSTALLED PER
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 PROVIDE RATED ACCESS DOORS AT EVERY CHANGE IN DIRECTION AND EVERY 12' ON CENTER.
 PER MANUFACTURES LISTING MODEL "EDW" HORIZONTAL RUNS LESS THAN 75 FT. CAN BE
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 ACCUMULATION IN HORIZONTAL RUNS.

 IF THE DUCT OR CHIMNEY IS WITHIN 18 INCHES OF COMBUSTIBLE MATERIAL, PROVIDE
 UL-2221 OR UL-103 HT LISTED DOUBLE WALL GREASE DUCT OR DOUBLE WALL CHIMNEY
 EQUAL TO ECON-AIR MODEL "EDW- 2R, 2R TYPE HT, 3R, OR 3Z" ROUND 20 GAUGE 430
 STAINLESS INNER DUCT INSULATED WITH A 24 GAUGE 430 STAINLESS OUTER SHELL.

CUSTOMER APPROVAL TO MANUFACTURE:

APPROVED AS NOTED	<input type="checkbox"/>
APPROVED WITH NO EXCEPTION TAKEN	<input type="checkbox"/>
REVISE AND RESUBMIT	<input type="checkbox"/>
SIGNATURE _____	
YOUR TITLE _____	DATE _____



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 Wisconsin Mechanical
 San Francis, WI. PHONE: (608) 685-2888 EMAIL: info@econair.com

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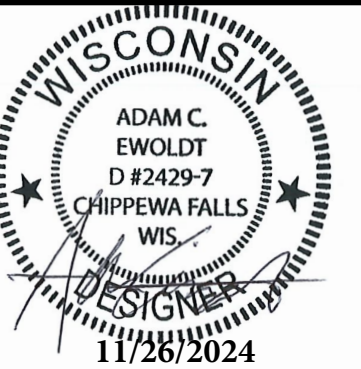
<p>Drawn: David Wang DRAWING NUMBER: 233682.00-1</p> <p>DATE: 11/26/24 PROJECT: No MUA Library Demonstration</p> <p>SCALE: 3/4" = 1'-0"</p> <p>PROJECT LOCATION: Ashland, WI, 54806</p>	<p>NOTES: 1. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2024 NATIONAL ELECTRICAL CODE (NEC) AND ALL LOCAL ORDINANCES. 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES. 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXISTING ELECTRICAL SYSTEM AND PROVIDING A COPY OF THE ELECTRICAL RECORDS TO THE DESIGNER.</p> <p>REVISIONS:</p> <table border="1"> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> <tr> <td>1</td> <td>11/26/24</td> <td>ISSUED FOR CONSTRUCTION</td> </tr> </table>	NO.	DATE	DESCRIPTION	1	11/26/24	ISSUED FOR CONSTRUCTION	<p>econ·air Wisconsin Mechanical Sun Prairie, WI. PHONE: (608) 855-2959 EMAIL: info@econair.com</p> <p>No MUA Library Demonstration Kitchen Ashland, WI, 54806</p> <p>11/26/2024 7150115 DS-134 3/4" = 1'-0" MASTER DRAWING</p> <p>6</p>
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ELECTRICAL PACKAGE - JOB#7150115

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED				
				LOCATION	QUANTITY		TYPE	#	HP	VOLT	FLA
1		SC-110110MA	UTILITY CABINET RIGHT	UTILITY CABINET RIGHT	1 LIGHT	SMART CONTROLS THERMOSTATIC CONTROL W/ FAN ON/OFF BY SUPPLY	EXHAUST	1	1,000	208	6.9

7150115 MODEL NUMBER: SC-110110MA

DESCRIPTION OF OPERATION: THE PROJECT IS COMPLETION OF THE MUA LIBRARY DEMONSTRATION KITCHEN HOOD AND EXHAUST SYSTEM. THE HOOD AND EXHAUST SYSTEM IS TO BE INSTALLED IN THE KITCHEN AREA OF THE MUA LIBRARY DEMONSTRATION KITCHEN. THE HOOD AND EXHAUST SYSTEM IS TO BE INSTALLED IN THE KITCHEN AREA OF THE MUA LIBRARY DEMONSTRATION KITCHEN. THE HOOD AND EXHAUST SYSTEM IS TO BE INSTALLED IN THE KITCHEN AREA OF THE MUA LIBRARY DEMONSTRATION KITCHEN.

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TANK PROTECTION ELECTRICAL DETAIL FS-1: MASTER

TANK PROTECTION LOW-VOLTAGE DETAIL FS-1: MASTER

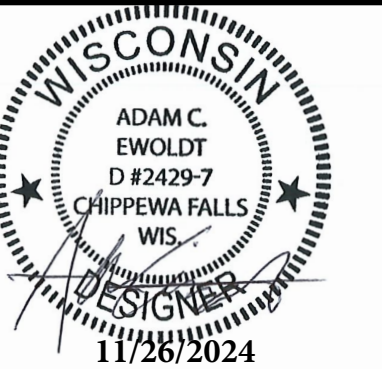
11/28/2024

**VAUGHN PUBLIC
LIBRARY**

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502 W. MAIN STREET
ASHLAND, WI 54806

PROJECT NUMBER 233682.00



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REVISION FOR: NO. DESCRIPTION DATE

econ·air
Wisconsin Mechanical
Sun Prairie, WI PHONE: (608) 405-2009 EMAIL: rsg34@econair.com

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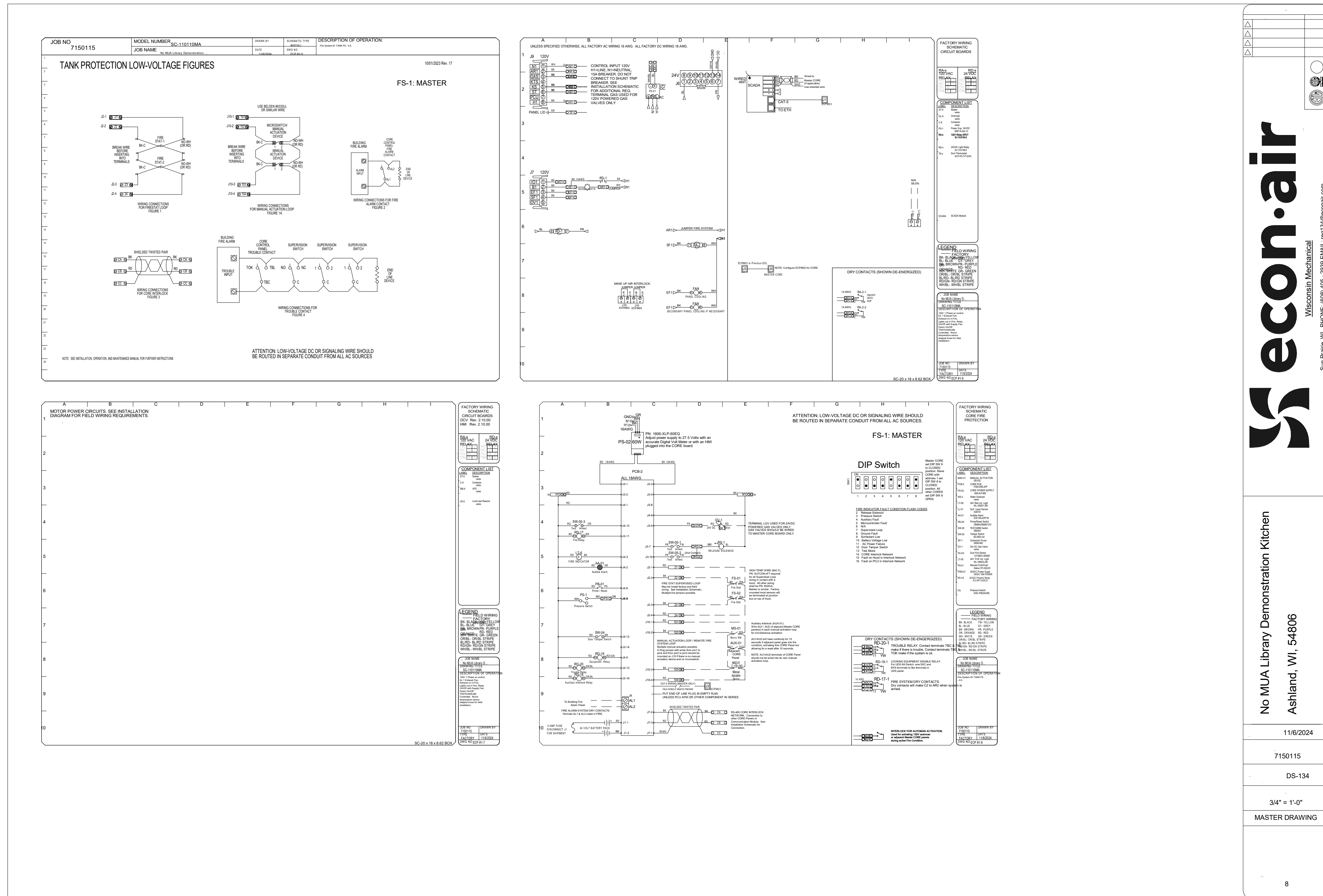
11/6/2024
7150115
DS-134
3/4" = 1'-0"
MASTER DRAWING

DRAWN BY ACE

CHECKED BY KRD

KITCHEN HOOD

M808



ELECTRICAL SYMBOLS LEGEND		
RECEPTACLES	LIGHTING	ONE LINE DIAGRAM
20A, 120V, 1P, 3W GROUNDING DUPLEX RECEPTACLE SWITCHED RECEPTACLE (-1 SWITCHED & 1 UNSWITCHED) SINGLE-FLEX RECEPTACLE QUADPLEX RECEPTACLE GFCI RECEPTACLE RECEPTACLE MTD. 6" ABOVE COUNTER OR HGT SHOWN TAMPER RESISTANT RECEPTACLE WEATHER-PROOF GFCI RECEPTACLE SPECIAL RECEPTACLE FLOORBOX SINGLE-FLEX, DUPLEX, QUADPLEX 120V, 15A CLOCK OUTLET	<p>FIXTURE TYPE PER SCHEDULE</p> TROFFER STYLE FIXTURE, TYPE AS NOTED FIXTURE ON EMERGENCY POWER STRIP LIGHT / SUSPENDED DIRECT/INDIRECT SURFACE MTD FIXTURE TRACK LIGHTING PENDANT/SURFACE MTD UP/DOWN LIGHT RECESSED/DOWNLIGHT FIXTURE ACCENT FIXTURE WALL MOUNTED FIXTURE EXIT SIGN (-ARROWS INDICATED AS SHOWN) (-SHADING INDICATES # OF FACES) CLG MTD EMERGENCY FIXTURE EMERGENCY FIXTURE COMBO EMERGENCY/EXIT LIGHT (-ARROW INDICATES DIRECTION) (-SHADING INDICATES # OF FACES) BOLLARD/SIDEWALK LIGHT FLOOD LIGHT SINGLE HEAD FIXTURE/POLE TWIN HEAD FIXTURE/POLE	TRANSFORMER NEW PANELBOARD EXISTING PANELBOARD TO REMAIN PANELBOARD TO BE REMOVED 3 POLE CIRCUIT BREAKER LOW VOLTAGE DRAW OUT TYPE CIRCUIT BREAKER PRIMARY DRAW OUT TYPE CIRCUIT BREAKER LOW VOLTAGE DRAW OUT TYPE CIRCUIT BREAKER WITH CURRENT LIMITING DEVICES NORMALLY OPEN CONTACT NORMALLY CLOSED CONTACT 3 POLE DISCONNECT SWITCH AND FUSE GROUNDING CONNECTION LIGHTING ARRESTER AND GROUNDING POTENTIAL TRANSFORMER CURRENT TRANSFORMER KIRK KEY INTERLOCK SYSTEM MOTOR OPERATOR FOR CIRCUIT BREAKER OR SWITCH SHUNT TRIP UTILITY METER CUSTOMER METER GROUND FAULT PROTECTION SYSTEM TOTALIZING WATT HOUR METER VARI-METER AMMETER AMMETER PHASE SWITCH DEMAND METER GROUND DETECTOR SYNCHROSCOPE POWER FACTOR METER FREQUENCY METER VOLTMETER
<p>POWER</p> PANEL BOARD DISTRIBUTION PANEL BOARD SEPARATE CIRCUIT BREAKER AUTOMATIC TRANSFER SWITCH UTILITY METER DISCONNECT FUSED DISCONNECT SWITCH EMERGENCY FUSED DISCONNECT SWITCH TRANSFORMER MOTOR STARTER/CONTACTOR COMBINATION MOTOR STARTER COMBINATION MOTOR STARTER PUSH BUTTON STATION AS NOTED J-BOX FLOOR BOX OVERHEAD BOX HAND HOLE PULL BOX, SIZE AS NOTED OR AS REQUIRED BY CODE MOTOR CONNECTION CEILING FAN HOME RUN TO PANEL BOARD	<p>SWITCHING</p> 20A, 120/277V SPST SWITCH 20A, 120/277V 3-WAY SWITCH 20A, 120/277V 4-WAY SWITCH DIMMER SWITCH KEY OPERATED SWITCH MOMENTARY CONTACT SWITCH LOW VOLTAGE SWITCH THERMAL OVERLOAD SWITCH PILOT LIGHT WALL MTD OCCUPANCY SENSOR CEILING MTD OCCUPANCY SENSOR PHOTOCELL VACANCY SENSOR	<p>SECURITY</p> CLOSED CIRCUIT CAMERA (CCC) CARD READER GLASS BREAK MOTION SENSOR DURESS BUTTON KEYPAD ELECTRIC LOCK, SEE DOOR HARDWARE SPEC. MAGNETIC LOCK DELAYED EGRESS (TIED TO INFANT ABDUCTION SYSTEM OR ED LOCK DOWN PUSH BUTTON) DOOR SECURITY POWER SUPPLY (CONNECT TO AUTO OPERATOR CIRCUIT) REQUEST TO EXIT DEVICE
<p>COMMUNICATIONS</p> SURFACE MOUNTED RACEWAY WITH DEVICES AS NOTED TELEPHONE TELEPHONE / DATA DATA ONLY COMMUNICATION DEVICE MTD 6" ABOVE COUNTER OR HGT SHOWN WIRELESS ACCESS POINT CEILING MOUNTED SPEAKER WALL MOUNTED SPEAKER SPEAKER VOLUME CONTROL TELEVISION OUTLET CABLE TRAY RUN DATA RACK	<p>FIRE ALARM</p> MANUAL PULL STATION - 46" AFF TO CENTER WALL MTD AUDIO NOTIFICATION - 80" - 96" AFF WALL MTD VISUAL NOTIFICATION - 80" - 96" AFF WALL MTD AUDIO/VISUAL - 80" - 96" AFF WEATHERPROOF WALL MTD AUDIO NOTIFICATION - 80" - 96" AFF WEATHERPROOF WALL MTD VISUAL NOTIFICATION - 80" - 96" AFF WEATHERPROOF WALL MTD AUDIO/VISUAL - 80" - 96" AFF CEILING MTD VISUAL NOTIFICATION CEILING MTD AUDIO NOTIFICATION CEILING MTD AUDIO/VISUAL NOTIFICATION SMOKE DETECTOR HEAT DETECTOR DUCT DETECTOR FIRE BARRIER CONNECTION FIRE ALARM RELAY SPRINKLER FLOW SWITCH TAMPER FLOW SWITCH MAGNETIC DOOR HOLD FIRE ALARM CONTROL PANEL FIRE ALARM ANNUNCIATOR PANEL	<p>POWER</p> 20A, 120/277V SPST SWITCH 20A, 120/277V 3-WAY SWITCH 20A, 120/277V 4-WAY SWITCH DIMMER SWITCH KEY OPERATED SWITCH MOMENTARY CONTACT SWITCH LOW VOLTAGE SWITCH THERMAL OVERLOAD SWITCH PILOT LIGHT WALL MTD OCCUPANCY SENSOR CEILING MTD OCCUPANCY SENSOR PHOTOCELL VACANCY SENSOR
<p>NURSE CALL</p> NURSE CALL - PATIENT BEDSIDE STATION NURSECALL - EMERGENCY STATION NURSECALL - CORRIDOR LIGHT NURSECALL - DUTY STATION NURSECALL - MASTER STATION NURSECALL - CODE BLUE NURSECALL - TONE SPEAKER NURSECALL - STAFF ASSIST STATION (CODE BLUE AND EMERGENCY STATION)	<p>SECURITY</p> CLOSED CIRCUIT CAMERA (CCC) CARD READER GLASS BREAK MOTION SENSOR DURESS BUTTON KEYPAD ELECTRIC LOCK, SEE DOOR HARDWARE SPEC. MAGNETIC LOCK DELAYED EGRESS (TIED TO INFANT ABDUCTION SYSTEM OR ED LOCK DOWN PUSH BUTTON) DOOR SECURITY POWER SUPPLY (CONNECT TO AUTO OPERATOR CIRCUIT) REQUEST TO EXIT DEVICE	<p>COMMUNICATIONS</p> SURFACE MOUNTED RACEWAY WITH DEVICES AS NOTED TELEPHONE TELEPHONE / DATA DATA ONLY COMMUNICATION DEVICE MTD 6" ABOVE COUNTER OR HGT SHOWN WIRELESS ACCESS POINT CEILING MOUNTED SPEAKER WALL MOUNTED SPEAKER SPEAKER VOLUME CONTROL TELEVISION OUTLET CABLE TRAY RUN DATA RACK

ELECTRICAL ABBREVIATIONS	
AB ABOVE COUNTERTOP SURFACE ANNUNCIATOR	QA QUALITY ASSURANCE
ANNC ANNUNCIATOR	QC QUALITY CONTROL
AFF ABOVE FINISHED FLOOR	REC RECEPTACLE
AFG ABOVE FINISHED GRADE	REF REFRIGERATOR
AIC AMPS INTERRUPTING CURRENT	ROOM ROOM
AJH AUTHORITY HAVING JURISDICTION	RPM REVOLUTIONS PER MINUTE
AMP AMPERE	SC SPACE
ARCH ARCHITECT	SEC SECONDARY
ATS AUTOMATIC TRANSFER SWITCH	SHT SHEET
ARF ABOVE RAISED FLOOR	SP SPARE
AV AUDIO VISUAL	SPD SURGE PROTECTIVE DEVICE
AWG AMERICAN WIRE GAUGE	SURF SURFACE
BATT BATTERY	SW SWITCH
BD BOARD	SWBD SWITCHBOARD
BF BELOW FLOOR	SWGR SWITCHGEAR
BFG BELOW FINISHED GRADE	TCIP TIME CLOCK - PHOTOCELL
BKR BREAKER	TOPI TRANSMISSION CONTROL PROTOCOL/INTERNET PROTOCOL
BLDG BUILDING	TE TOTALLY ENCLOSED
BRF BELOW RAISED FLOOR	TEL TELEPHONE
CB CIRCUIT BREAKER	TERM TERMINAL
CC CONTROLS CONTRACTOR	TR TAMPER RESISTANT
CKT CIRCUIT	TV TELEVISION
CATV CABLE TELEVISION	TVSS TRANSIENT VOLTAGE SURGE SUPPRESSOR
CCTV CLOSED CIRCUIT TELEVISION	CLG CEILING
CLG CEILING	COMB COMBINATION STARTER
CONN CONNECT	CONN CONNECT
CONN CONNECT	CP CURRENT TRANSFORMER
CPT CONTROL POWER TRANSFORMER	CONT CONTINUOUS
CT CURRENT TRANSFORMER	CONT CONTINUOUS
CONT CONTINUOUS	DB DECIBEL
DB DECIBEL	DET DETAIL
DET DETAIL	DIST DISTRIBUTION
DIST DISTRIBUTION	DIV DIVISION
DIV DIVISION	DISC DISCONNECT SWITCH
DISC DISCONNECT SWITCH	DL DAMP LOCATION
DL DAMP LOCATION	DN DOWN
DN DOWN	DWG DRAWINGS
DWG DRAWINGS	EA EACH
EA EACH	EC ELECTRICAL CONTRACTOR
EC ELECTRICAL CONTRACTOR	EM EMERGENCY
EM EMERGENCY	EQUIP EQUIPMENT
EQUIP EQUIPMENT	EV ELECTRIC VEHICLE
EV ELECTRIC VEHICLE	EVSE ELECTRICAL VEHICLE SUPPLY EQUIPMENT
EVSE ELECTRICAL VEHICLE SUPPLY EQUIPMENT	EWC ELECTRIC WATER COOLER
EWC ELECTRIC WATER COOLER	EX EXISTING
EX EXISTING	EXP EXPLOSION PROOF
EXP EXPLOSION PROOF	EXR EXISTING RELOCATED
EXR EXISTING RELOCATED	F FUSE
F FUSE	FA FIRE ALARM
FA FIRE ALARM	FAAP FIRE ALARM ANNUNCIATOR PANEL
FAAP FIRE ALARM ANNUNCIATOR PANEL	FACP FIRE ALARM CONTROL PANEL
FACP FIRE ALARM CONTROL PANEL	FLA FULL LOAD AMPS
FLA FULL LOAD AMPS	FLC FULL LOAD CURRENT
FLC FULL LOAD CURRENT	FT FUTURE
FT FUTURE	GC GENERAL CONTRACTOR
GC GENERAL CONTRACTOR	GFCB GROUND FAULT CIRCUIT BREAKER
GFCB GROUND FAULT CIRCUIT BREAKER	GFI GROUND FAULT INTERRUPTER
GFI GROUND FAULT INTERRUPTER	GFFE GROUND FAULT PROTECTION OF EQUIPMENT
GFFE GROUND FAULT PROTECTION OF EQUIPMENT	GND GROUND
GND GROUND	GND, G HIGH INTENSITY DISCHARGE
GND, G HIGH INTENSITY DISCHARGE	HL HAZARDOUS LOCATION
HL HAZARDOUS LOCATION	HRZ HORIZONTAL
HRZ HORIZONTAL	HP HORSEPOWER
HP HORSEPOWER	HR HOUR
HR HOUR	HTG HEATING
HTG HEATING	HVPS HIGH VOLTAGE POWER SUPPLY
HVPS HIGH VOLTAGE POWER SUPPLY	HZ HERTZ
HZ HERTZ	IBC INTERNATIONAL BUILDING CODE
IBC INTERNATIONAL BUILDING CODE	IG ISOLATED GROUND
IG ISOLATED GROUND	ISSUED FOR CONSTRUCTION
ISSUED FOR CONSTRUCTION	IN INCH
IN INCH	ISN INFORMATION SYSTEMS NETWORK
ISN INFORMATION SYSTEMS NETWORK	IT INFORMATION TECHNOLOGY
IT INFORMATION TECHNOLOGY	JB JUNCTION BOX
JB JUNCTION BOX	KV KILO VOLTS
KV KILO VOLTS	KVA KILO VOLT AMPERES
KVA KILO VOLT AMPERES	KW KILO WATTS
KW KILO WATTS	KWH KILO WATT HOURS
KWH KILO WATT HOURS	LAN LOCAL AREA NETWORK
LAN LOCAL AREA NETWORK	LED LIGHT EMITTING DIODE
LED LIGHT EMITTING DIODE	LTG LIGHTING
LTG LIGHTING	LV LOW VOLTAGE
LV LOW VOLTAGE	MAX MAXIMUM
MAX MAXIMUM	MC MECHANICAL CONTRACTOR
MC MECHANICAL CONTRACTOR	MCA MINIMUM CIRCUIT AMPS
MCA MINIMUM CIRCUIT AMPS	MCB MAIN CIRCUIT BREAKER
MCB MAIN CIRCUIT BREAKER	MCC MOTOR CONTROL CENTER
MCC MOTOR CONTROL CENTER	MDP MAIN DISTRIBUTION PANEL
MDP MAIN DISTRIBUTION PANEL	MFG MANUFACTURER
MFG MANUFACTURER	MH MANHOLE
MH MANHOLE	MIN MINIMUM
MIN MINIMUM	MISC MISCELLANEOUS
MISC MISCELLANEOUS	MLO MAIN LOSS ONLY
MLO MAIN LOSS ONLY	MTD MOUNTED
MTD MOUNTED	MTG MOUNTING
MTG MOUNTING	MTR MOTOR
MTR MOTOR	MV MEDIUM VOLTAGE
MV MEDIUM VOLTAGE	MW MEGA WATTS
MW MEGA WATTS	NC NORMALLY CLOSED
NC NORMALLY CLOSED	NEC NATIONAL ELECTRIC CODE (NFPA 70)
NEC NATIONAL ELECTRIC CODE (NFPA 70)	NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION	NESC NATIONAL ELECTRICAL SAFETY CODE
NESC NATIONAL ELECTRICAL SAFETY CODE	NFPA NATIONAL FIRE PROTECTION ASSOCIATION
NFPA NATIONAL FIRE PROTECTION ASSOCIATION	NF NON-FUSED
NF NON-FUSED	NL NIGHT LIGHT
NL NIGHT LIGHT	NO NORMALLY OPENED
NO NORMALLY OPENED	NTS NOT TO SCALE
NTS NOT TO SCALE	OCC OCCUPANCY
OCC OCCUPANCY	OCPD OVERCURRENT PROTECTIVE DEVICE
OCPD OVERCURRENT PROTECTIVE DEVICE	OH OVERHEAD
OH OVERHEAD	PB PULL BOX
PB PULL BOX	PC PLUMBING CONTRACTOR
PC PLUMBING CONTRACTOR	PF POWER FACTOR
PF POWER FACTOR	PH PHASE
PH PHASE	PHEV PLUG-IN HYBRID ELECTRIC VEHICLE
PHEV PLUG-IN HYBRID ELECTRIC VEHICLE	PNL PANELBOARD
PNL PANELBOARD	PRI PRIMARY
PRI PRIMARY	PT POTENTIAL TRANSFORMER
PT POTENTIAL TRANSFORMER	PoE POWER OVER INTERNET
PoE POWER OVER INTERNET	PP POWER POLE
PP POWER POLE	PV PHOTOVOLTAIC
PV PHOTOVOLTAIC	PVC POLYVINYL CHLORIDE
PVC POLYVINYL CHLORIDE	PWR POWER

GENERAL ELECTRICAL NOTES																					
1.	THIS IS AN OFFICE STANDARD SYMBOL LIST. ALL SYMBOLS DO NOT NECESSARILY APPEAR ON THIS PROJECT.																				
2.	ALL WORK SHALL BE DONE IN CONFORMANCE WITH NATIONAL, STATE, AND LOCAL CODES, AND/OR ORDINANCES.																				
3.	ELECTRICAL CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER CONTRACTORS & LOCAL UTILITY. EC SHALL CONTACT LOCAL UTILITY FOR EXACT SERVICE REQUIREMENTS TO INCLUDE - BUT NOT LIMITED TO - TRANSFORMER, METERING, AND CABLING. LOCAL UTILITY REQUIREMENTS SUPERSEDE DRAWINGS AND SPECIFICATIONS.																				
4.	CONTRACTOR SHALL REFER TO ARCHITECTURAL, MECHANICAL, & PLUMBING DRAWINGS FOR ADDITIONAL REQUIREMENTS.																				
5.	ELECTRICAL CONTRACTOR SHALL VISIT SITE TO VERIFY EXISTING CONDITIONS AND WORK REQUIRED PRIOR TO BID.																				
6.	ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING AND PAINTING OF EXISTING WALLS FOR INSTALLATION OF NEW WORK.																				
7.	ELECTRICAL DRAWINGS ARE DIAGRAMMATIC ONLY. THEY ARE INTENDED TO GIVE APPROXIMATE LOCATIONS AND OVERALL DESIGN INTENT. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PRODUCTS, MATERIALS, AND ELECTRICAL METHODS WHICH HAVE NOT BEEN SHOWN OR INDICATED BUT ARE REQUIRED FOR A COMPLETE SYSTEM TO THE STANDARDS OF THE INDUSTRY, THE NEC AND NFPA.																				
8.	UPON COMPLETION OF THE ELECTRICAL WORK, THE INSTALLATION SHALL BE TESTED FOR CONTINUITY, GROUNDS, AND SHORT CIRCUITS. THE ELECTRICAL CONTRACTOR SHALL DEMONSTRATE PROPER PERFORMANCE OF ALL SYSTEMS. ALL DEFECTIVE WORK OR MATERIALS SHALL BE REPLACED OR REPAIRED AS NECESSARY AND RETESTED.																				
9.	ELECTRICAL RACEWAYS THAT PENETRATE FIRE RATED ASSEMBLIES SHALL BE SLEEVED AND SEALED AS PER THE LOCAL BUILDING CODE.																				
10.	THE ELECTRICAL CONTRACTOR SHALL PROVIDE A TEMPORARY ELECTRICAL SYSTEM FOR THE PROJECT. AT LEAST ONE 120 VOLT SINGLE PHASE RECEPTACLE SHALL BE PROVIDED FOR EACH 500 SQUARE FEET OF FLOOR SPACE. SUFFICIENT TEMPORARY LIGHTING SHALL BE PROVIDED TO ALLOW ALL CONTRACTORS TO COMPLETE THEIR WORK. TEMPORARY ELECTRICAL CIRCUITS SHALL BE EQUIPPED WITH COMBINATION GROUND FAULT INTERRUPTER AND CIRCUIT BREAKER PER NEC. TEMPORARY ELECTRICAL SYSTEM SHALL BE INCLUDED IN THIS BID. USAGE CHARGES SHALL BE PAID FOR BY THE GENERAL CONTRACTOR.																				
11.	ELECTRICAL CONTRACTOR SHALL SALVAGE DEVICES BEING REMOVED FOR SPECIALIZED SYSTEMS, INCLUDING BUT NOT LIMITED TO CARD READERS, MOTION DETECTORS, SOUND SYSTEMS, CAMERAS, IT EQUIPMENT, ETC AND ALL ASSOCIATED EQUIPMENT. THESE ITEMS SHALL BE TURNED OVER TO THE OWNER.																				
12.	ELECTRICAL CONTRACTOR SHALL INCLUDE IN BID AN ALLOWANCE FOR OWNER TO ADD (S) RECEPTACLES DURING CONSTRUCTION. ASSUME NOT MORE THAN ONE NEW CIRCUIT. CIRCUIT TO BE PULLED FROM NEAREST AVAILABLE POWER PANEL.																				
13.	ELECTRICAL CONTRACTOR SHALL INCLUDE IN BID AN ALLOWANCE TO ADD (S) DATA OUTLETS WITH CABLING DURING CONSTRUCTION.																				
14.	ELECTRICAL CONTRACTOR SHALL INCLUDE IN BID AN ALLOWANCE TO ADD (S) FIRE ALARM DEVICES WITH CABLING DURING CONSTRUCTION.																				
15.	ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASSOCIATED COSTS AND SCHEDULING OF REQUIRED ELECTRICAL INSPECTIONS.																				
17.	ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF ALL DATA CABLING FROM DEVICE LOCATION TO 'IT' ROOM IN BASEMENT. FINAL CONNECTIONS TO BE BY OTHERS. COORDINATE WITH OWNERS 'IT' CONSULTANT FOR ANY ADDITIONAL INFORMATION OR REQUIREMENTS.																				
18.	REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR DEVICE PLACEMENT.																				
19.	ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OWNERS ANY CONSULTANT FOR ADDITIONAL REQUIREMENTS BEYOND WHAT IS INDICATED ON THE DRAWINGS FOR A COMPLETE AND OPERATIONAL SYSTEM.																				
20.	20AMP CIRCUITS SHALL BE SIZED FOR VOLTAGE DROP PER CIRCUIT OVERALL LENGTH AS FOLLOWS:																				
	<table border="1"> <thead> <tr> <th>120 VOLT LENGTH</th> <th>AWG</th> <th>277 VOLT LENGTH</th> <th>AWG</th> </tr> </thead> <tbody> <tr> <td><120'</td> <td>#12</td> <td><200'</td> <td>#12</td> </tr> <tr> <td>120'-200'</td> <td>#10</td> <td>200'-330'</td> <td>#10</td> </tr> <tr> <td>200'-300'</td> <td>#8</td> <td>330'-500'</td> <td>#8</td> </tr> <tr> <td>>300'</td> <td>#6</td> <td>>500'</td> <td>#6</td> </tr> </tbody> </table>	120 VOLT LENGTH	AWG	277 VOLT LENGTH	AWG	<120'	#12	<200'	#12	120'-200'	#10	200'-330'	#10	200'-300'	#8	330'-500'	#8	>300'	#6	>500'	#6
120 VOLT LENGTH	AWG	277 VOLT LENGTH	AWG																		
<120'	#12	<200'	#12																		
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200'-300'	#8	330'-500'	#8																		
>300'	#6	>500'	#6																		

EQUIPMENT IDENTIFICATION	
EQUIPMENT DESIGNATION	CODE
AUTOMATIC TRANSFER SWITCH	ATS
DISTRIBUTION PANEL 120/208V	LDP
DISTRIBUTION PANEL 277/480V	HDP
PANELBOARD 120/208V	LP
PANELBOARD 277/480V	HP
SWITCHBOARD	SB
TRANSFORMER	T
SYSTEM DESIGNATION	CODE
CRITICAL	C
EMERGENCY	E
LEGALLY REQUIRED	L
NORMAL	N
OPTIONAL STANDBY	S

ELECTRICAL SHEET INDEX	
E001	ELECTRICAL NOTES, LEGENDS & ABBREVIATIONS
ED110	BASEMENT ELECTRICAL DEMOLITION PLANS
ED111	FIRST FLOOR ELECTRICAL DEMOLITION PLANS
ED112	SECOND FLOOR ELECTRICAL DEMOLITION PLANS
ED113	THIRD FLOOR ELECTRICAL DEMOLITION PLANS
E110	BASEMENT ELECTRICAL PLANS
E111	FIRST FLOOR ELECTRICAL PLANS
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E114	ROOF ELECTRICAL PLANS
E401	THIRD FLOOR LARGE MEETING ROOM ENLARGED LIGHTING PLAN
E501	ELECTRICAL DETAILS
E801	ELECTRICAL SCHEDULES
E802	ELECTRICAL SCHEDULES

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REVISION FOR: NO. DESCRIPTION DATE

DRAWN BY DFS

CHECKED BY DRD

ELECTRICAL NOTES, LEGENDS & ABBREVIATIONS

E001

KEYED NOTES	
1	EXISTING LIGHTING TO BE DISCONNECTED AND REMOVED. MAINTAIN CIRCUITRY FOR RECONNECTION BY NECESSARY MEANS TO NEW LIGHTING IN SAME AREA. REFER TO SHEET E110 FOR ADDITIONAL INFORMATION. FIELD VERIFY EXACT CONDITIONS.

KEYED NOTES	
1	EXISTING ELECTRICAL SERVICE, SWITCHBOARD TO BE DISCONNECTED, REMOVED AND REPLACED. REFER TO SHEET E110 FOR ADDITIONAL INFORMATION. MAINTAIN BY NECESSARY MEANS EXISTING FEEDERS TO REMAIN AND RECONNECT BY NECESSARY MEANS TO NEW DISTRIBUTION BOARD. FIELD VERIFY EXACT CONDITIONS.
2	EXISTING PANELBOARD TO REMAIN AS IS. DISCONNECT EXISTING FEEDER FROM EXISTING DISTRIBUTION AND RECONNECT TO NEW DISTRIBUTION PANEL BY NECESSARY MEANS.
3	EXISTING MECHANICAL EQUIPMENT TO REMAIN. IF PANELBOARD FEEDING EQUIPMENT IS REPLACED OR RELOCATED, RECONNECT EQUIPMENT TO NEW PANEL BY NECESSARY MEANS. FIELD VERIFY EXACT CONDITIONS.
4	EXISTING MECHANICAL EQUIPMENT TO BE RELOCATED. IF PANELBOARD FEEDING EQUIPMENT IS REPLACED OR RELOCATED, RECONNECT EQUIPMENT TO NEW PANEL BY NECESSARY MEANS. EXTEND CIRCUIT TO NEW LOCATION BY NECESSARY MEANS. FIELD VERIFY EXACT CONDITIONS.
5	EXISTING MECHANICAL EQUIPMENT TO BE REMOVED COMPLETE. REMOVE CIRCUITRY BACK TO SOURCE COMPLETE AND LABEL BREAKER AS SPARE. FIELD VERIFY EXACT CONDITIONS.

KEYED NOTES	
6	EXISTING MECHANICAL EQUIPMENT TO BE DISCONNECTED AND ABANDONED IN PLACE.

KEYED NOTES	
1	EXISTING FIRE ALARM PANEL TO REMAIN AS IS.

GENERAL NOTES	
A. REFER TO SHEET E001 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, AND ADDITIONAL GENERAL NOTES THAT APPLY.	



MILWAUKEE | MADISON | TUCSON | CHICAGO



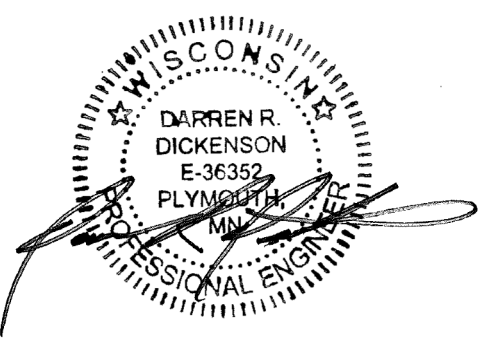
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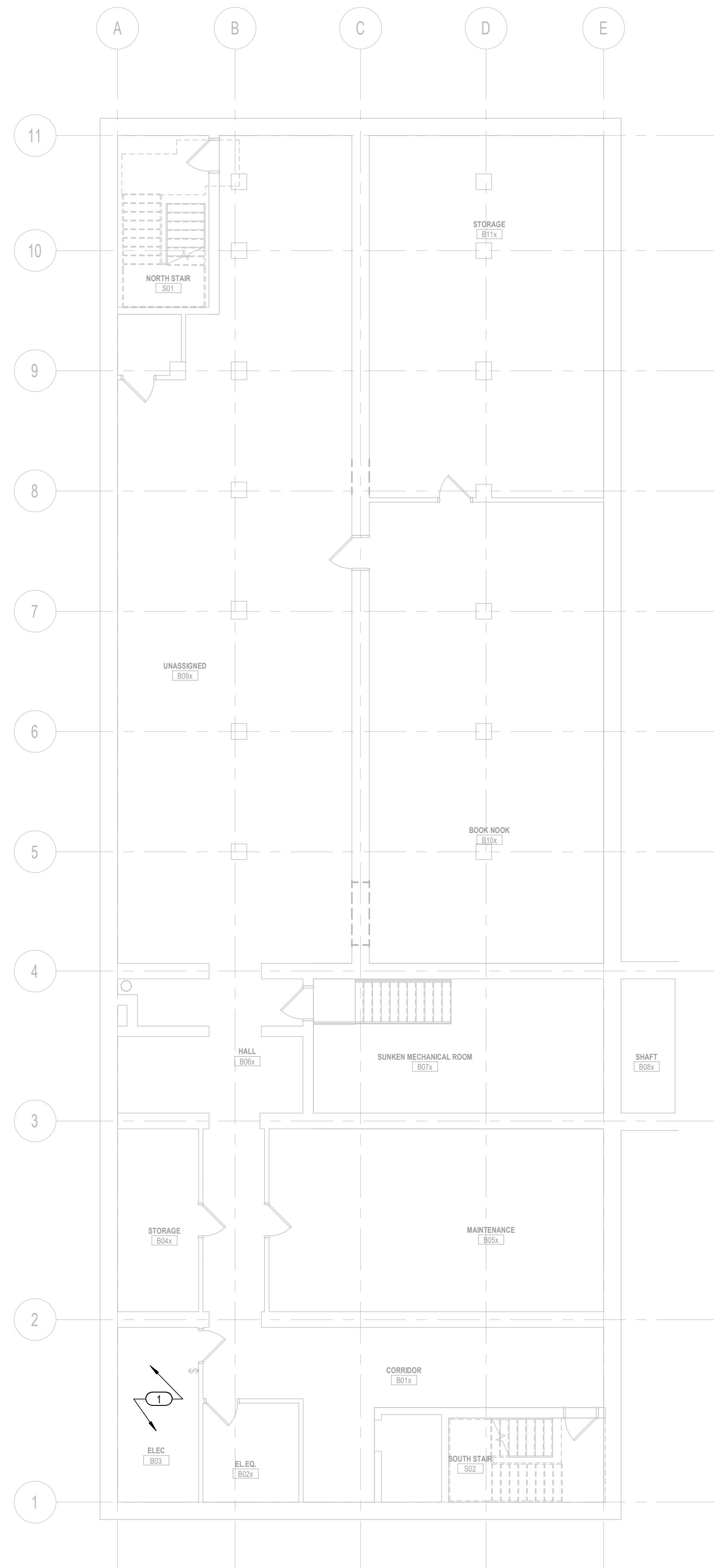
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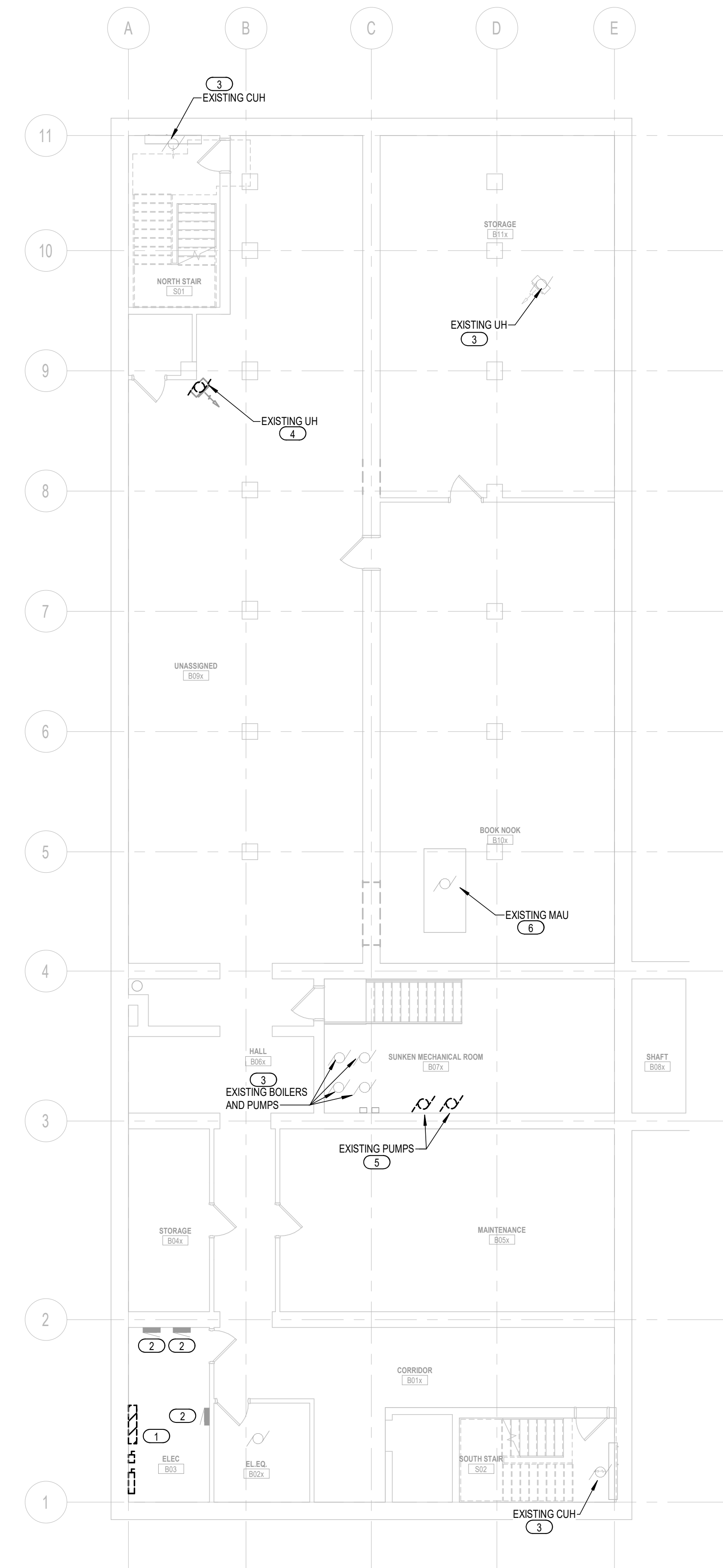
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BASEMENT ELECTRICAL DEMOLITION PLANS

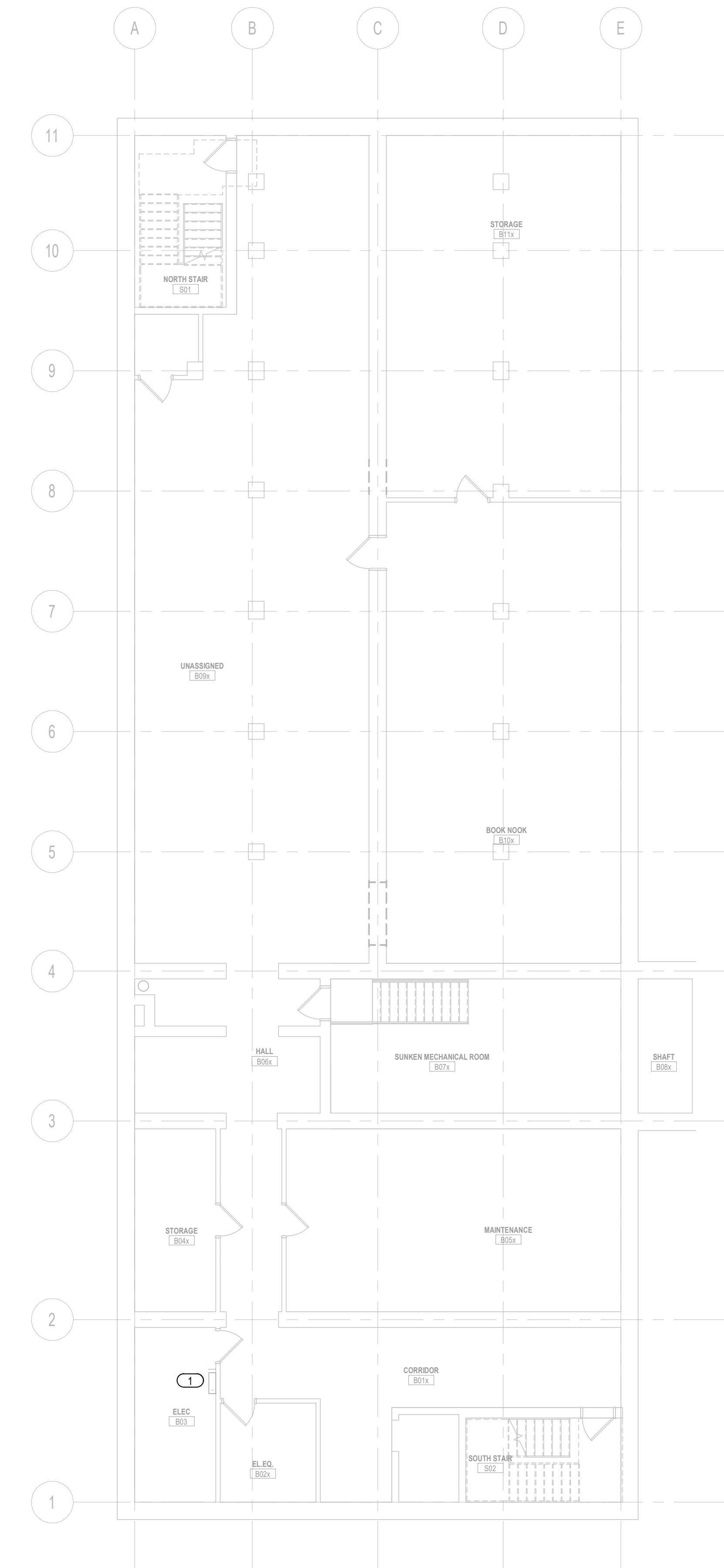
ED110



1 BASEMENT LIGHTING DEMOLITION PLAN
1/8" = 1'-0"



2 BASEMENT POWER DEMOLITION PLAN
1/8" = 1'-0"



3 BASEMENT SYSTEMS DEMOLITION PLAN
1/8" = 1'-0"

KEYED NOTES	
1	DISCONNECT AND REMOVE EXISTING LIGHTING AND ASSOCIATED CIRCUITS BACK TO SOURCE. FIELD VERIFY EXACT CONDITIONS.
2	

KEYED NOTES	
1	EXISTING DEVICE LOCATION TO REMAIN. REMOVE EXISTING DEVICE AND REPLACE WITH NEW DEVICE AND COVERPLATE. MAINTAIN CIRCUITRY BY NECESSARY MEANS FOR RECONNECTION TO NEW DEVICE. FIELD VERIFY EXACT CONDITIONS.
2	EXISTING PANELBOARD TO BE DISCONNECTED AND REMOVED COMPLETE. REMOVE CIRCUITRY BACK TO SOURCE.
3	DISCONNECT EXISTING SPLIT COOLING UNIT AND ASSOCIATED CONDENSING UNIT. REMOVE CIRCUITRY BACK TO SOURCE. FIELD VERIFY EXACT CONDITIONS.
4	DISCONNECT EXISTING UNIT VENTILATOR. REMOVE CIRCUITRY BACK TO SOURCE. FIELD VERIFY EXACT CONDITIONS.
5	DISCONNECT EXISTING EXHAUST FAN. REMOVE CIRCUITRY BACK TO SOURCE. FIELD VERIFY EXACT CONDITIONS.
6	UNLESS NOTED OTHERWISE DISCONNECT AND REMOVE EXISTING DEVICES AND ASSOCIATED CIRCUITS BACK TO SOURCE. FIELD VERIFY EXACT CONDITIONS.

KEYED NOTES	
1	UNLESS NOTED OTHERWISE DEVICES SHOWN AND ASSOCIATED CIRCUITRY SHALL BE REMOVED COMPLETE.
2	EXISTING WIRELESS ACCESS POINT TO BE REMOVED AND TURNED OVER TO THE OWNER. FIELD VERIFY EXACT CONDITIONS.
3	EXISTING SPEAKER TO BE REMOVED AND TURNED OVER TO THE OWNER. FIELD VERIFY EXACT CONDITIONS.
4	EXISTING DATA RACK AND ASSOCIATED EQUIPMENT TO BE REMOVED AND TURNED OVER TO THE OWNER. EXISTING INCOMING SERVICES SHALL BE INTERCEPTED AND EXTENDED BY NECESSARY MEANS TO NEW DATA ROOM. COORDINATE WITH OWNERS 'IT' GROUP. FIELD VERIFY EXACT CONDITIONS.
5	EXISTING MOTION DETECTOR TO BE REMOVED AND TURNED OVER TO THE OWNER. FIELD VERIFY EXACT CONDITIONS.
6	UNLESS NOTED OTHERWISE DISCONNECT AND REMOVE EXISTING DEVICES AND ASSOCIATED CIRCUITS BACK TO SOURCE. FIELD VERIFY EXACT CONDITIONS.

GENERAL NOTES	
A REFER TO SHEET E001 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, AND ADDITIONAL GENERAL NOTES THAT APPLY.	



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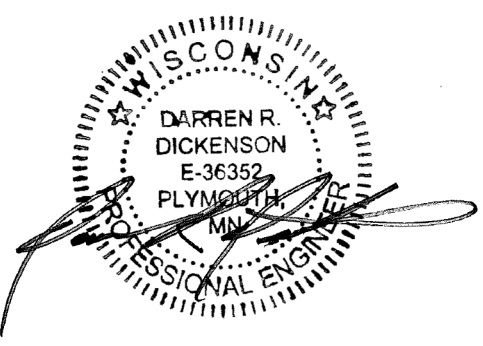
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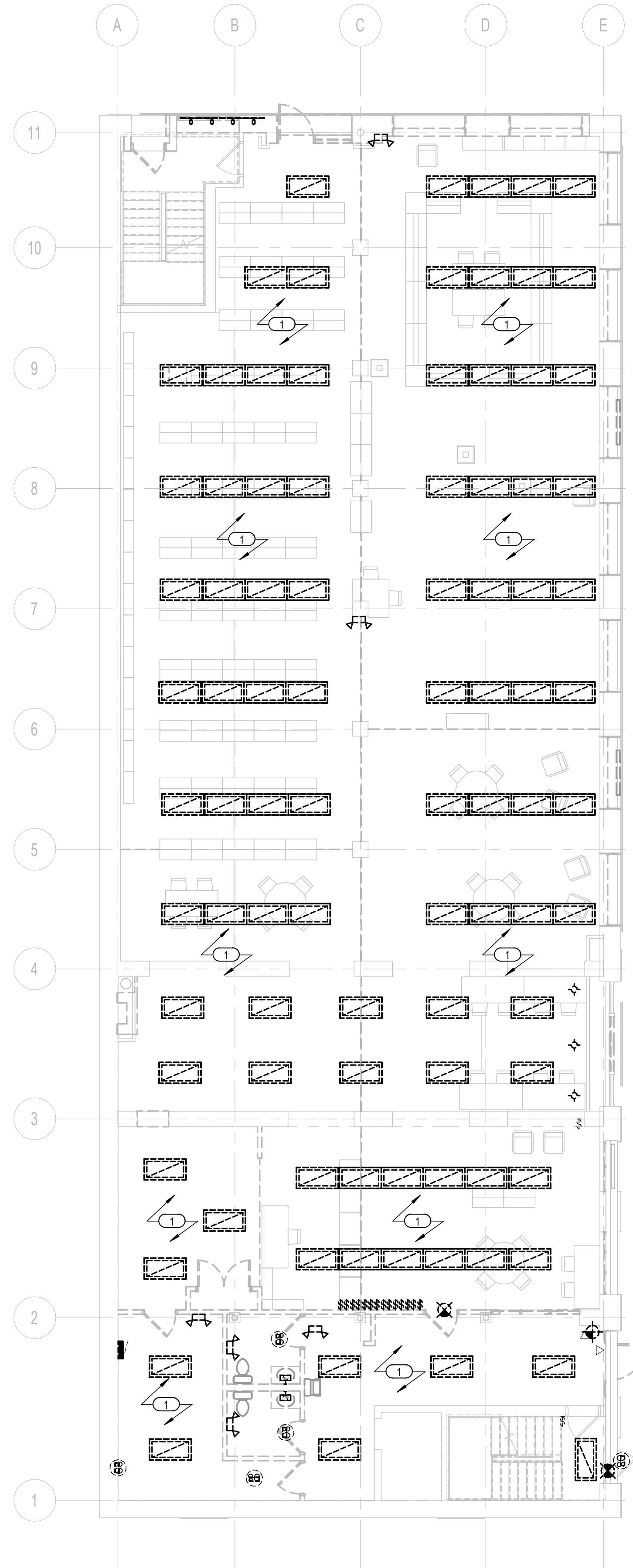
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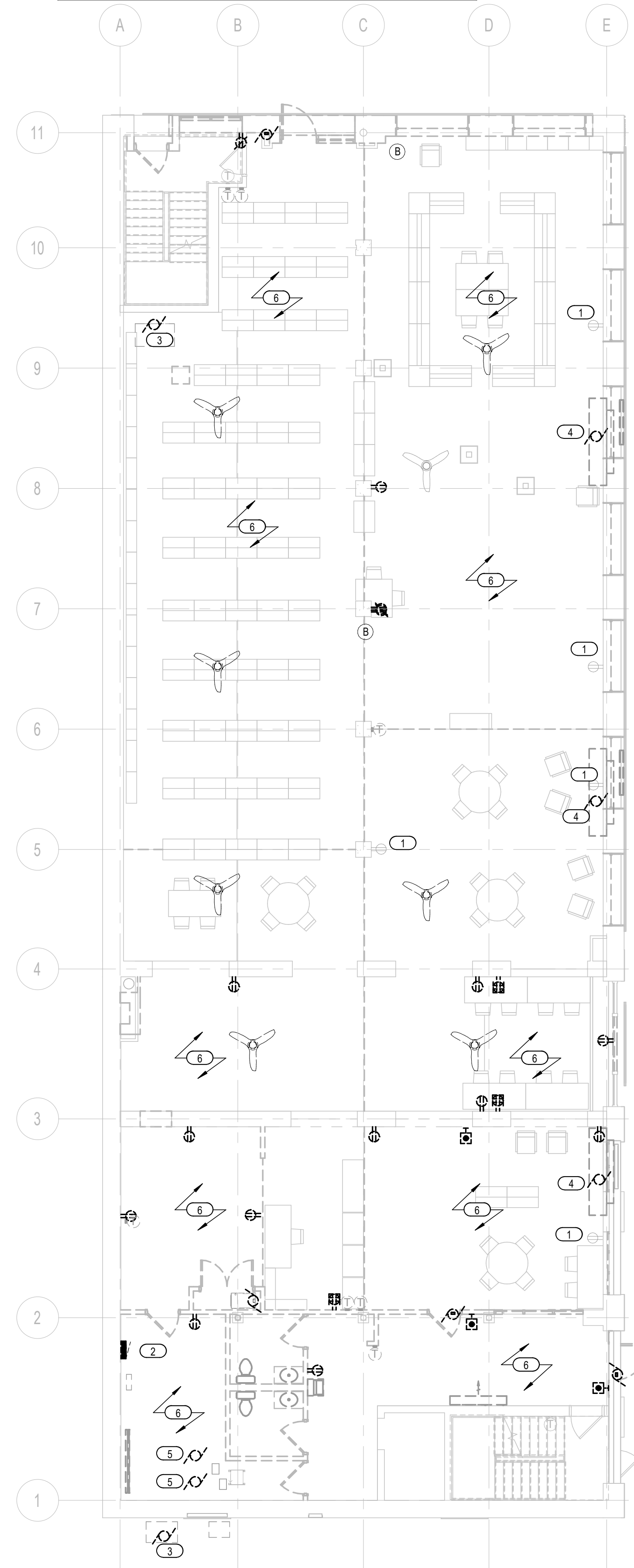
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FIRST FLOOR ELECTRICAL DEMOLITION PLANS

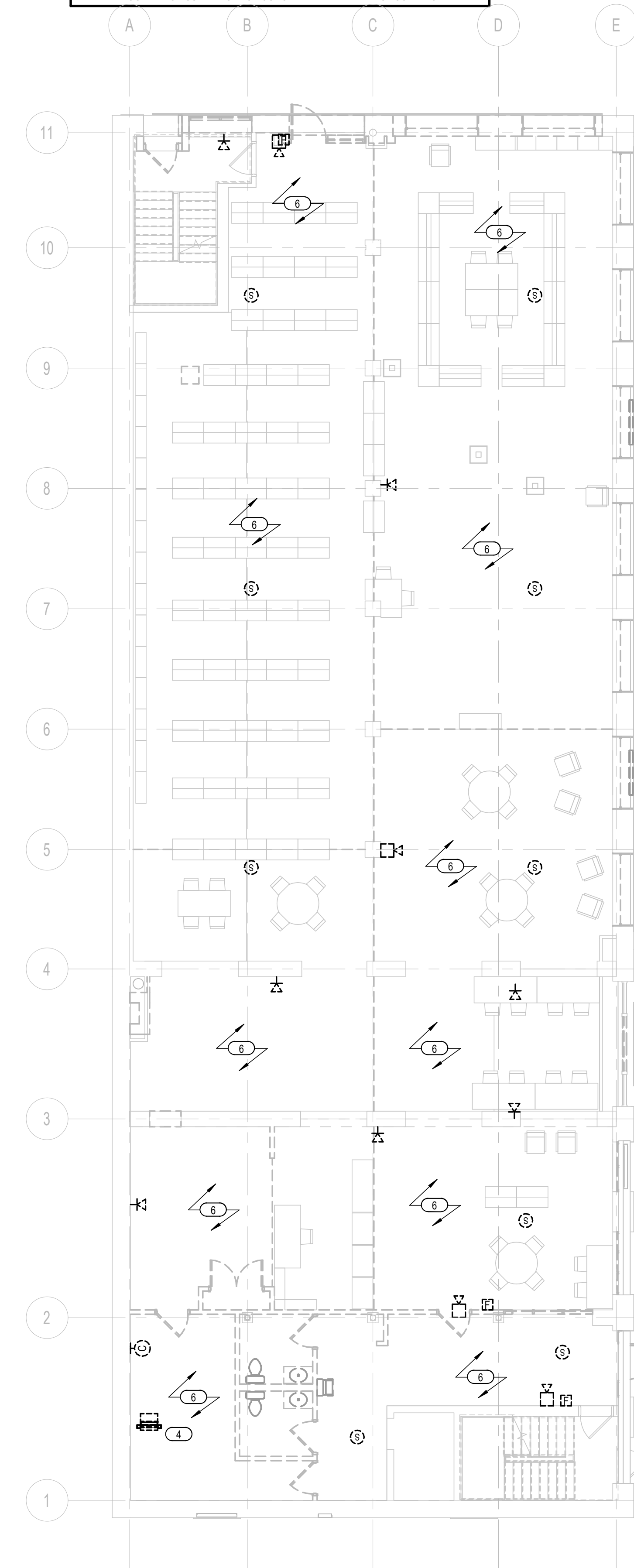
ED111



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



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



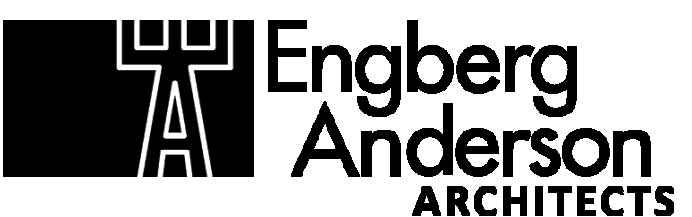
2 FIRST FLOOR SYSTEMS DEMOLITION PLAN
1/8" = 1'-0"

KEYED NOTES	
1	DISCONNECT AND REMOVE EXISTING LIGHTING AND ASSOCIATED CIRCUITRY BACK TO SOURCE.
2	DISCONNECT AND REMOVE EXISTING LIGHTING AND ASSOCIATED CIRCUITRY BACK TO SOURCE. HISTORIC FIXTURES TO BE CLEANED AND REUSED IN DIFFERENT LOCATION.

KEYED NOTES	
1	UNLESS NOTED OTHERWISE DEVICES SHOWN AND ASSOCIATED CIRCUITRY SHALL BE REMOVED COMPLETE.
2	EXISTING PANELBOARD TO BE REMOVED COMPLETE. REMOVE CIRCUITRY BACK TO SOURCE.
3	DISCONNECT EXISTING EXHAUST FAN. REMOVE CIRCUITRY BACK TO SOURCE. FIELD VERIFY EXACT CONDITIONS.

KEYED NOTES	
1	UNLESS NOTED OTHERWISE DEVICES SHOWN AND ASSOCIATED CIRCUITRY SHALL BE REMOVED COMPLETE.
2	EXISTING OVERHEAD PROJECTOR TO BE REMOVED AND MAINTAINED FOR REUSE. FIELD VERIFY EXACT CONDITIONS.
3	EXISTING SPEAKER TO BE REMOVED AND MAINTAINED FOR REUSE. FIELD VERIFY EXACT CONDITIONS.
4	EXISTING AV RACK AND ASSOCIATED EQUIPMENT TO BE REMOVED AND MAINTAINED FOR REUSE. FIELD VERIFY EXACT CONDITIONS.
5	EXISTING MOTION DETECTOR TO BE REMOVED AND MAINTAINED FOR REUSE. FIELD VERIFY EXACT CONDITIONS.

GENERAL NOTES	
A REFER TO SHEET E001 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, AND ADDITIONAL GENERAL NOTES THAT APPLY.	



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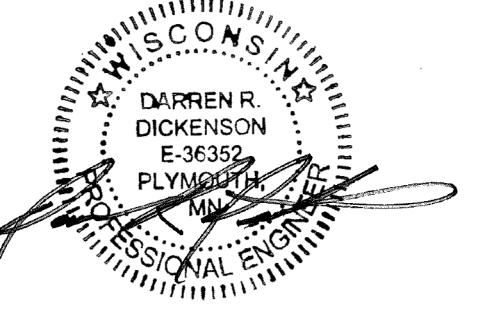
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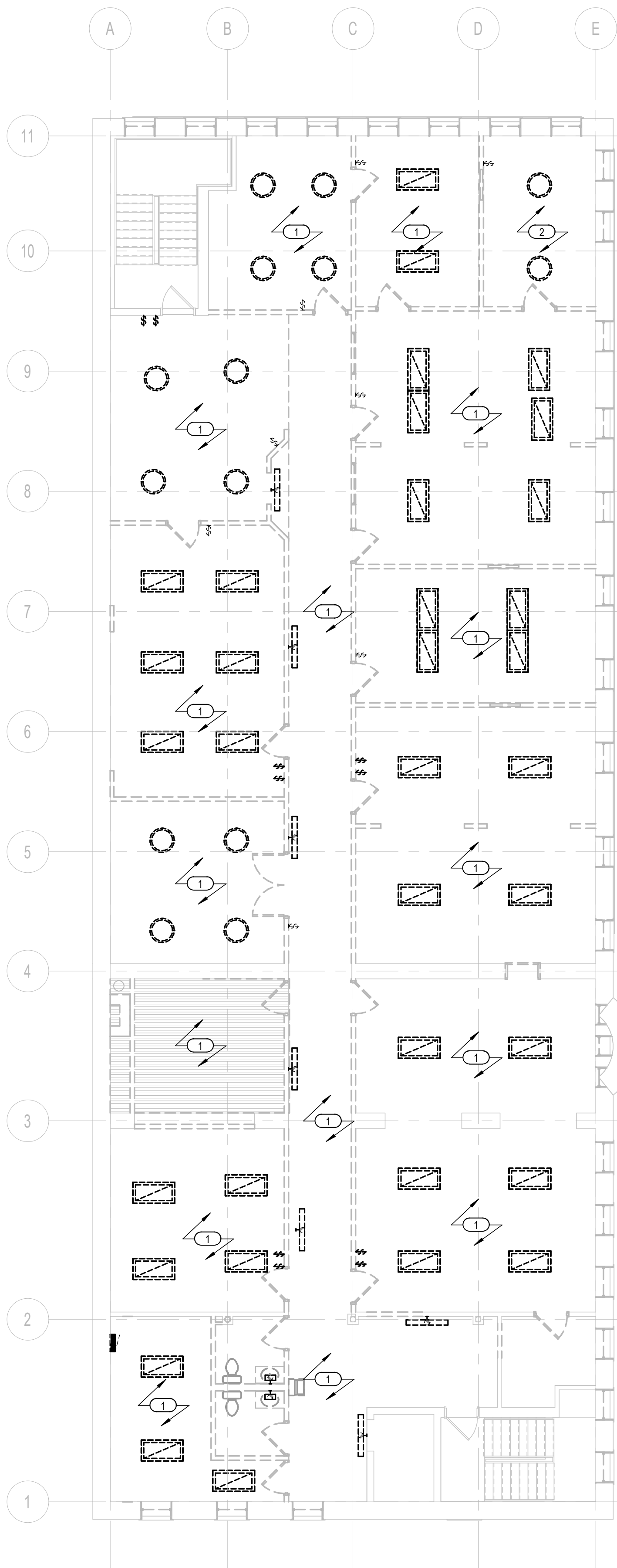
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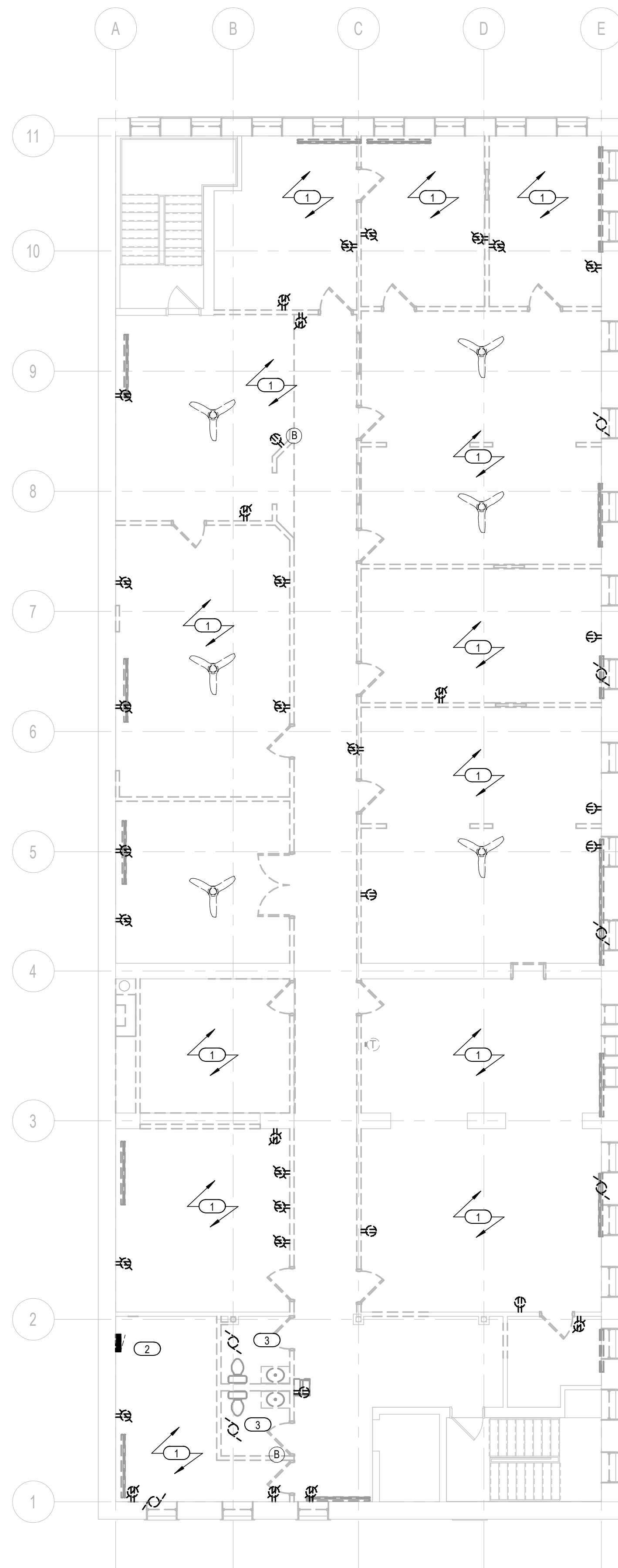
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SECOND FLOOR ELECTRICAL DEMOLITION PLANS

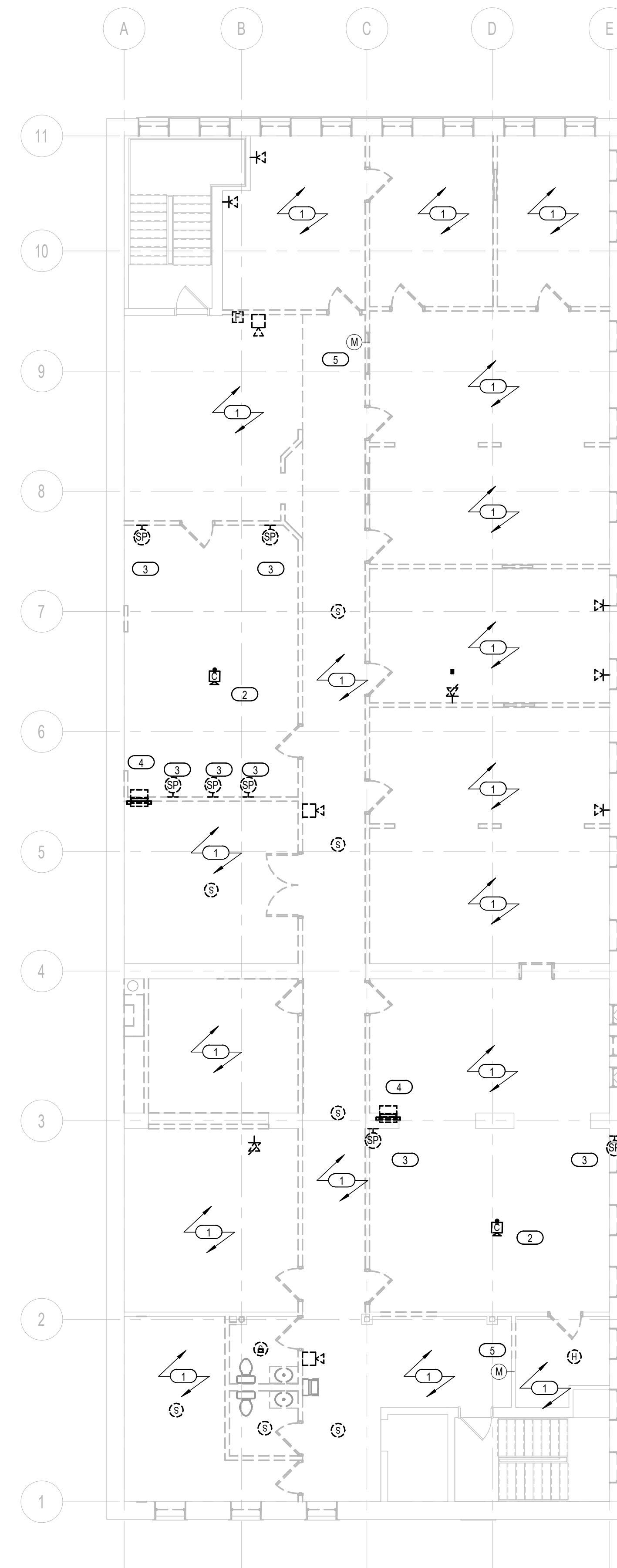
ED112



3 SECOND FLOOR LIGHTING DEMOLITION PLAN
1/8" = 1'-0"



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



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

KEYED NOTES

1 UNLESS NOTED OTHERWISE DISCONNECT AND REMOVE EXISTING LIGHTING AND ASSOCIATED CIRCUITS BACK TO SOURCE. FIELD VERIFY EXACT CONDITIONS.

KEYED NOTES

1 EXISTING AIR HANDLING UNIT TO BE DISCONNECTED AND REMOVED COMPLETE. REMOVE CIRCUITRY BACK TO SOURCE COMPLETE AND LABEL BREAKER AS SPARE. COORDINATE WITH DIVISION 23. FIELD VERIFY EXACT CONDITIONS.

2 EXISTING DEVICE AND ASSOCIATED CIRCUITRY TO BE REMOVED COMPLETE. MAINTAIN BOX AND CONDUIT FOR REUSE. INSTALL NEW DEVICE IN EXISTING LOCATION. FIELD VERIFY EXACT CONDITIONS.

3 EXISTING PANELBOARD TO BE REMOVED.

4 DISCONNECT EXISTING FURNACE AND CONDENSING UNIT. REMOVE CIRCUITRY BACK TO SOURCE. FIELD VERIFY EXACT CONDITIONS.

5 DISCONNECT UNIT HEATER. REMOVE CIRCUITRY BACK TO SOURCE. FIELD VERIFY EXACT CONDITIONS.

6 UNLESS NOTED OTHERWISE DISCONNECT AND REMOVE EXISTING DEVICES AND ASSOCIATED CIRCUITS BACK TO SOURCE. FIELD VERIFY EXACT CONDITIONS.

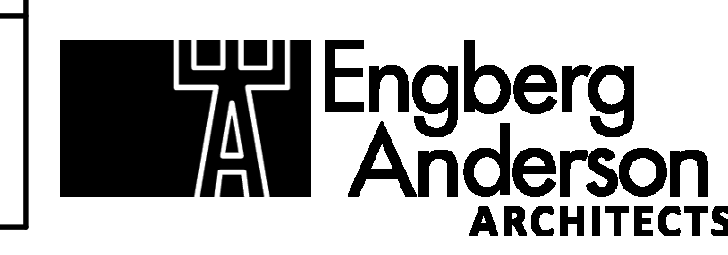
KEYED NOTES

1 UNLESS NOTED OTHERWISE DISCONNECT AND REMOVE EXISTING DEVICES AND ASSOCIATED CIRCUITS BACK TO SOURCE. FIELD VERIFY EXACT CONDITIONS.

2

GENERAL NOTES

A REFER TO SHEET ED01 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, AND ADDITIONAL GENERAL NOTES THAT APPLY.



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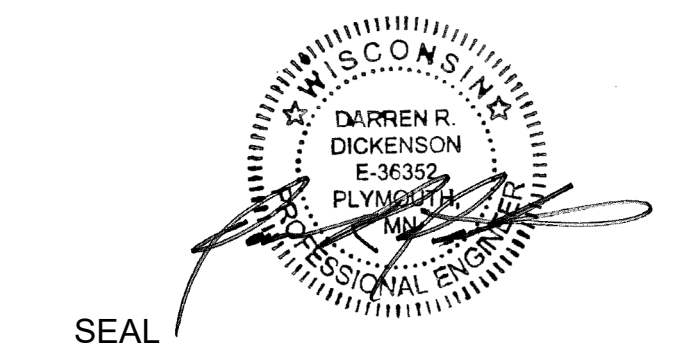
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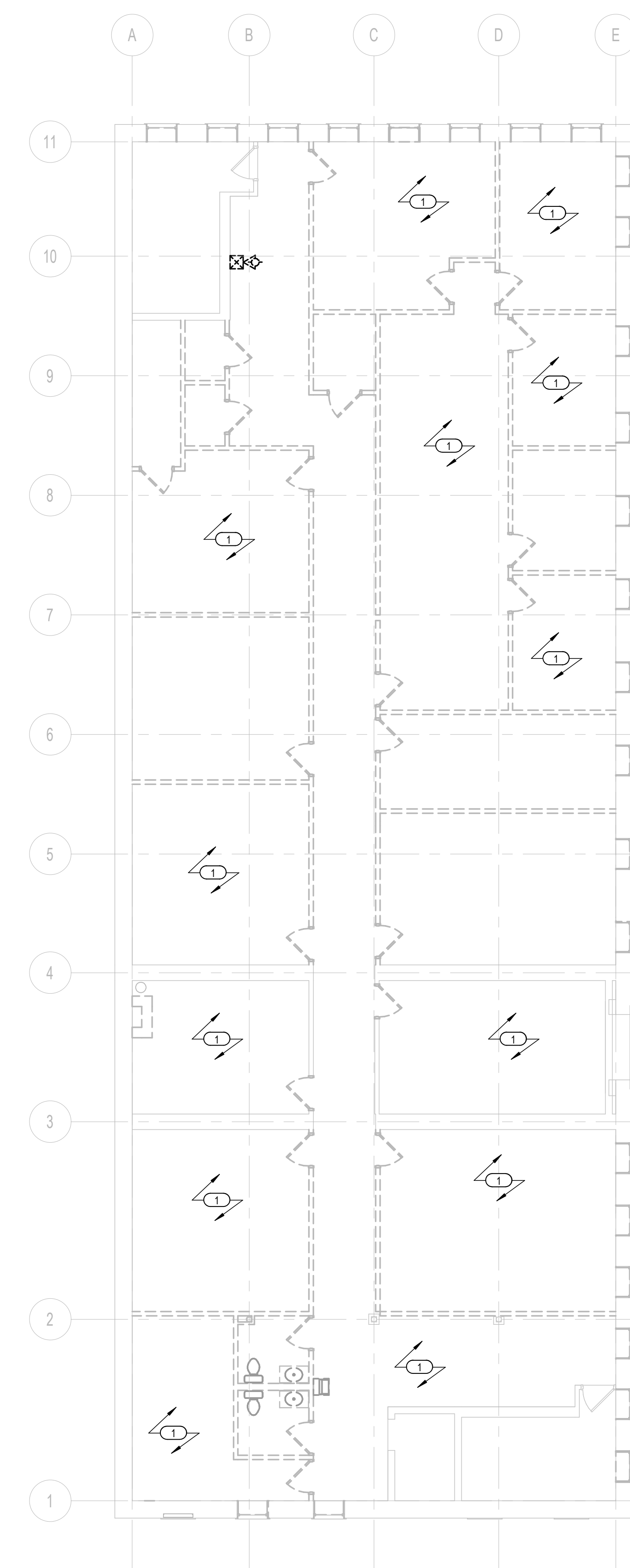
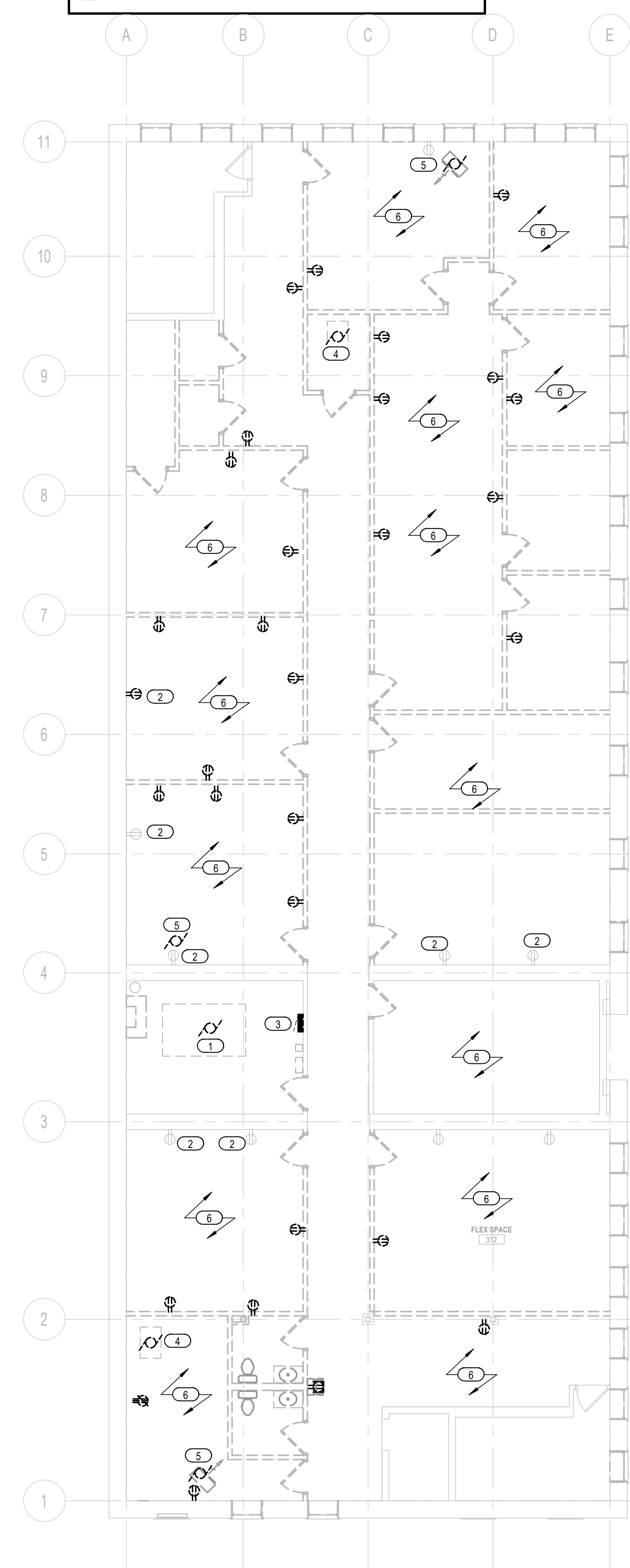
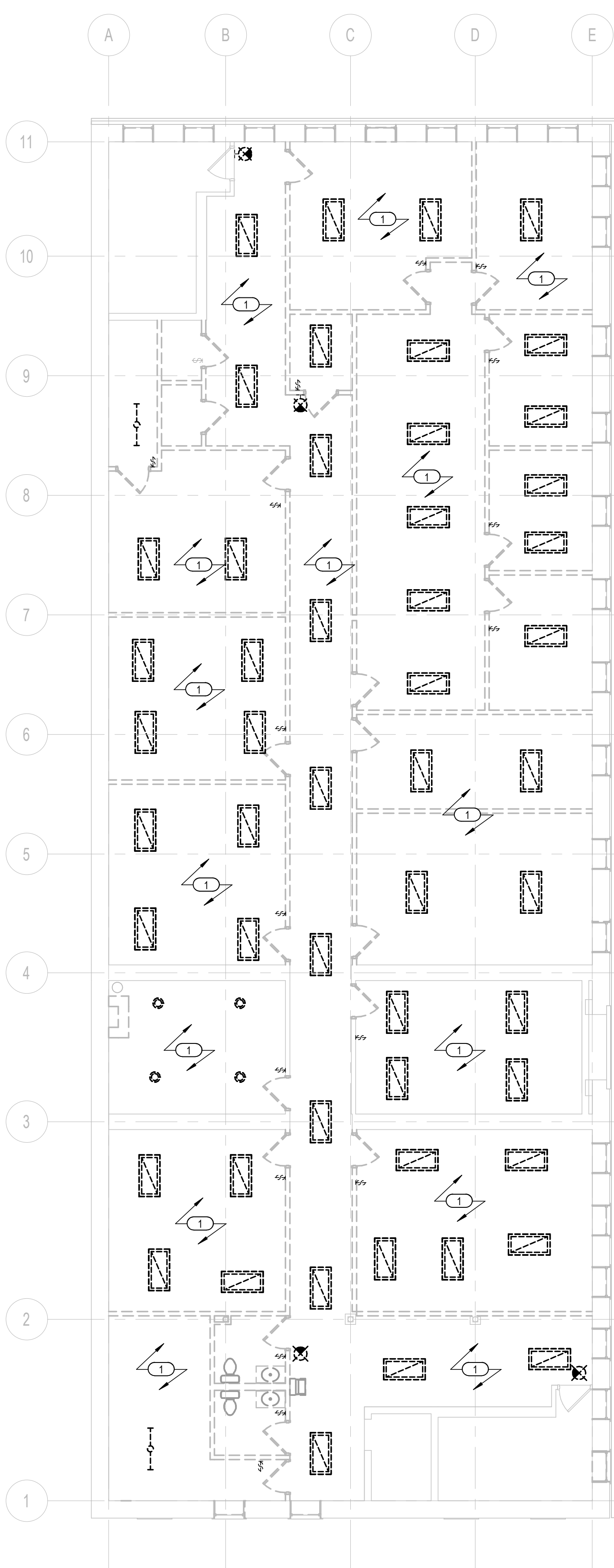
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THIRD FLOOR ELECTRICAL DEMOLITION PLANS

ED113



1 THIRD FLOOR LIGHTING DEMOLITION PLAN
1/8" = 1'-0"

2 THIRD FLOOR POWER DEMOLITION PLAN
1/8" = 1'-0"

3 THIRD FLOOR SYSTEMS DEMOLITION PLAN
1/8" = 1'-0"

KEYED NOTES	
1	RECONNECT BY NECESSARY MEANS TO EXISTING LIGHTING CIRCUITRY MAINTAINED FROM DEMOLITION. FIELD VERIFY EXACT CONDITIONS.
2	CONNECT FIXTURES TO NEAREST CIRCUIT SERVING THE AREA. FIELD VERIFY CIRCUIT CAPACITY.

KEYED NOTES	
1	NEW SERVICE RATED DISTRIBUTION PANEL "DP-1". RECONNECT BY NECESSARY MEANS EXISTING FEEDERS TO PANELS TO REMAIN. FIELD VERIFY EXACT CONDITIONS.
2	DISCONNECT EXISTING PUMP STARTER. MAINTAIN CIRCUITRY FOR RECONNECTION TO NEW VFDS BY NECESSARY MEANS. FIELD VERIFY EXACT CONDITIONS.
3	CONNECT TO NEAREST AVAILABLE RECEPTACLE CIRCUIT. FIELD VERIFY CIRCUIT CAPACITY.
4	PROVIDE (2) DUPLEX RECEPTACLE TO BE MOUNTED TO RACK (BY OTHERS) PROVIDE (2) 20A, 1P CIRCUITS FROM EXISTING PANEL "A1" IN ELECTRICAL ROOM.
5	PROVIDE 34" FIRE RETARDANT BOARD ON WALLS PAINTED GRAY. PROVIDE A G-200 WIREMOLD WITH RECEPTACLES MOUNTED 24" ON CENTER. PROVIDE (2) 20A, 1P CIRCUITS FROM EXISTING PANEL "A1" IN ELECTRICAL ROOM. ALTERNATE CIRCUITS.

KEYED NOTES CONT.	
6	INVERTER PANEL TO BE COOPER LIGHTING SURE-LITES CATALOG NUMBER INVSM-S-22-A-S-B-A-20-10-M AND IS TO BE FED FROM MDP-1 UTILIZING 2#10, 1#10G, 3/4"C. SEE PANEL SCHEDULE ON SHEET E001 FOR ADDITIONAL INFORMATION.
7	EXISTING ELEVATOR TO BE DISCONNECTED AND RECONNECTED BY NECESSARY MEANS TO NEW DISTRIBUTION PANEL. FIELD VERIFY EXACT CONDITIONS.

KEYED NOTES	
1	PROVIDE (1) 3" CONDUIT WITH PULLSTRING STUBBED TO ABOVE ACCESSIBLE CEILING ON EACH FLOOR. FIELD VERIFY ROUTING PATHS.
2	INTERCEPT BY NECESSARY MEANS EXISTING INCOMING DATA LINES AND EXTEND TO NEW DATA ROOM. FIELD VERIFY EXACT CONDITIONS.

GENERAL NOTES	
A.	REFER TO SHEET E001 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, AND ADDITIONAL GENERAL NOTES THAT APPLY.
B.	LIGHTING/RECEPTACLE CIRCUITS TO BE FED VIA PANEL "LP-2". ALL EMERGENCY LIGHTING CIRCUITS TO BE FED VIA NEW LIGHTING INVERTER LOCATED IN BASEMENT.
C.	DAYLIGHT SENSORS TO CONTROL FIRST 10 FEET OF LIGHTING WITHIN THE SPACE.



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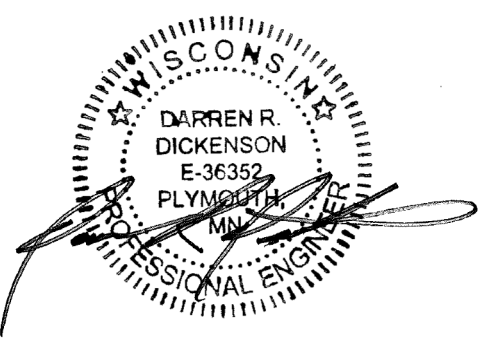
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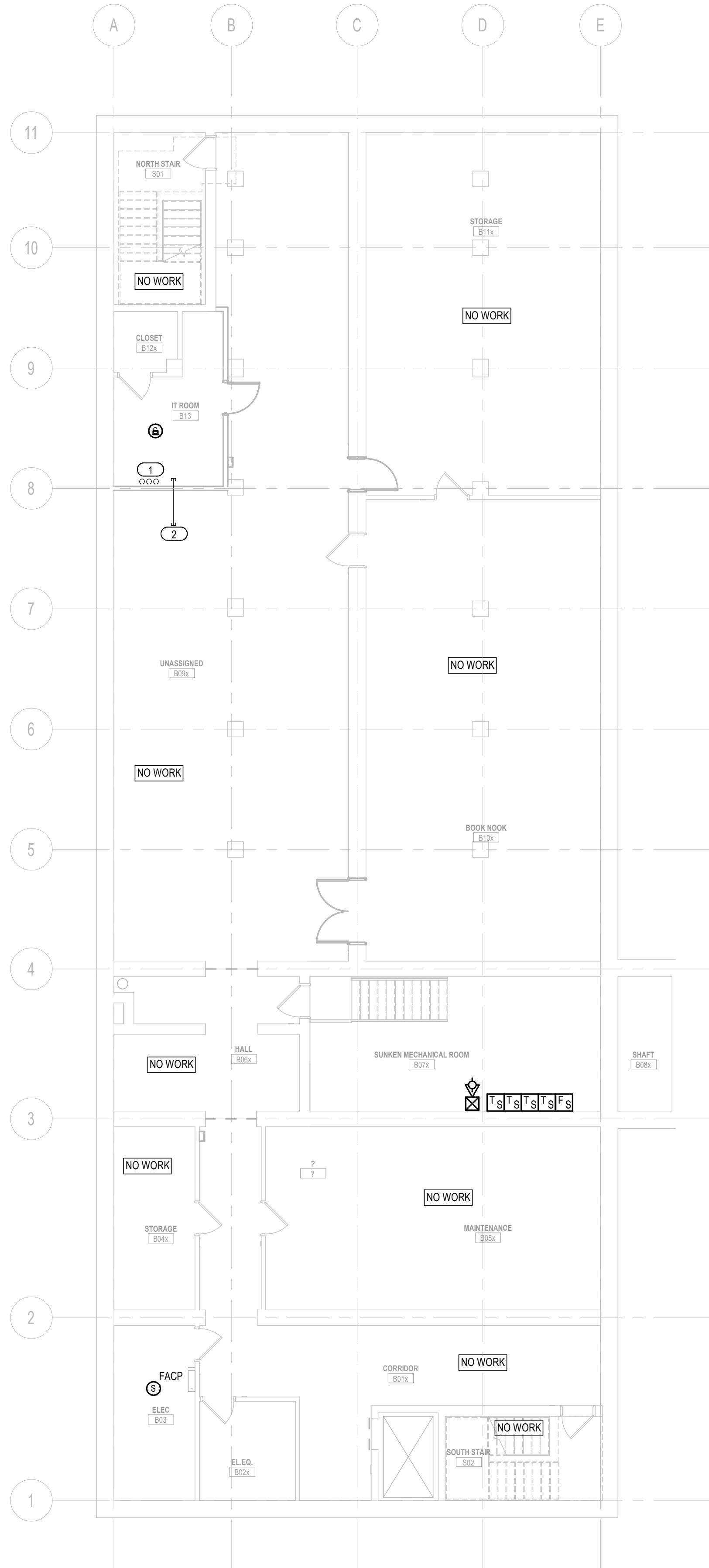
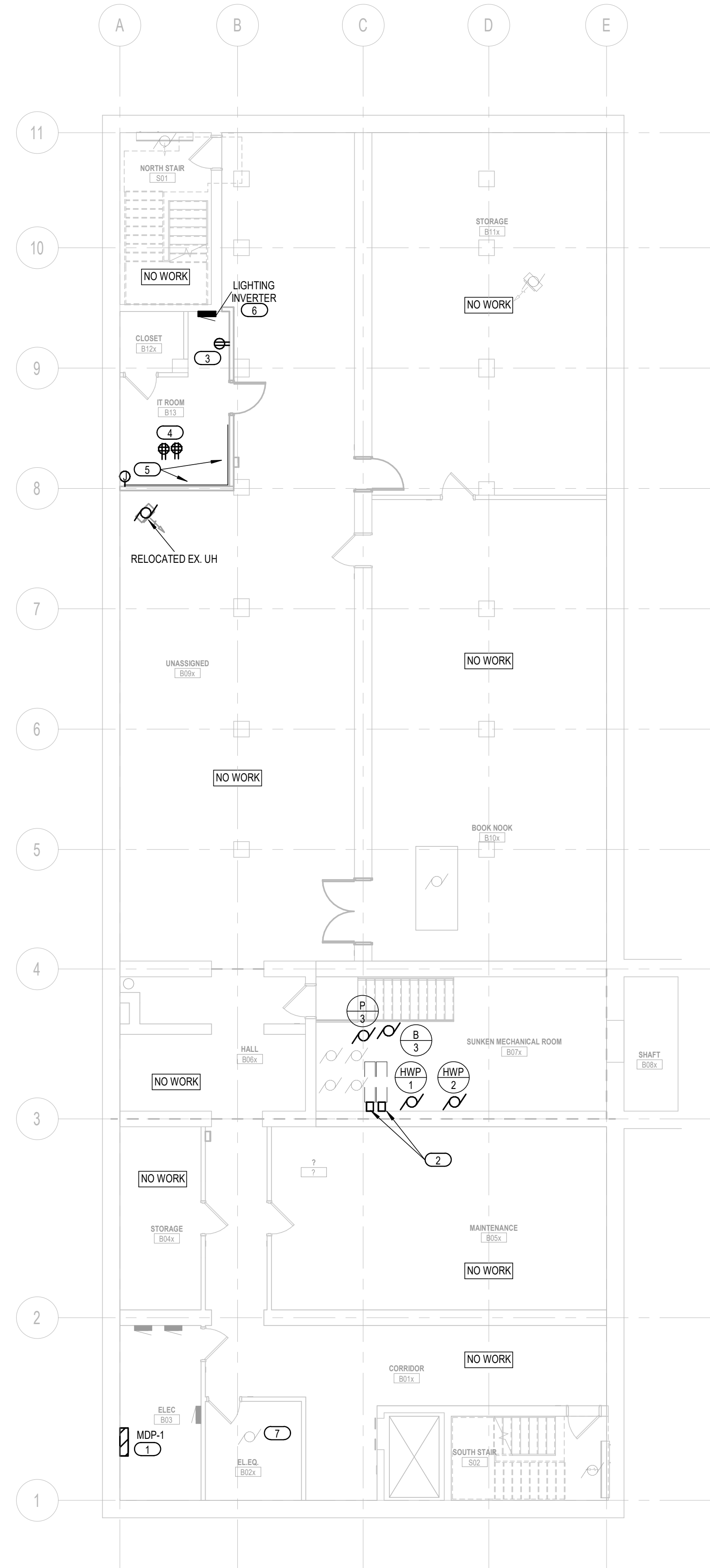
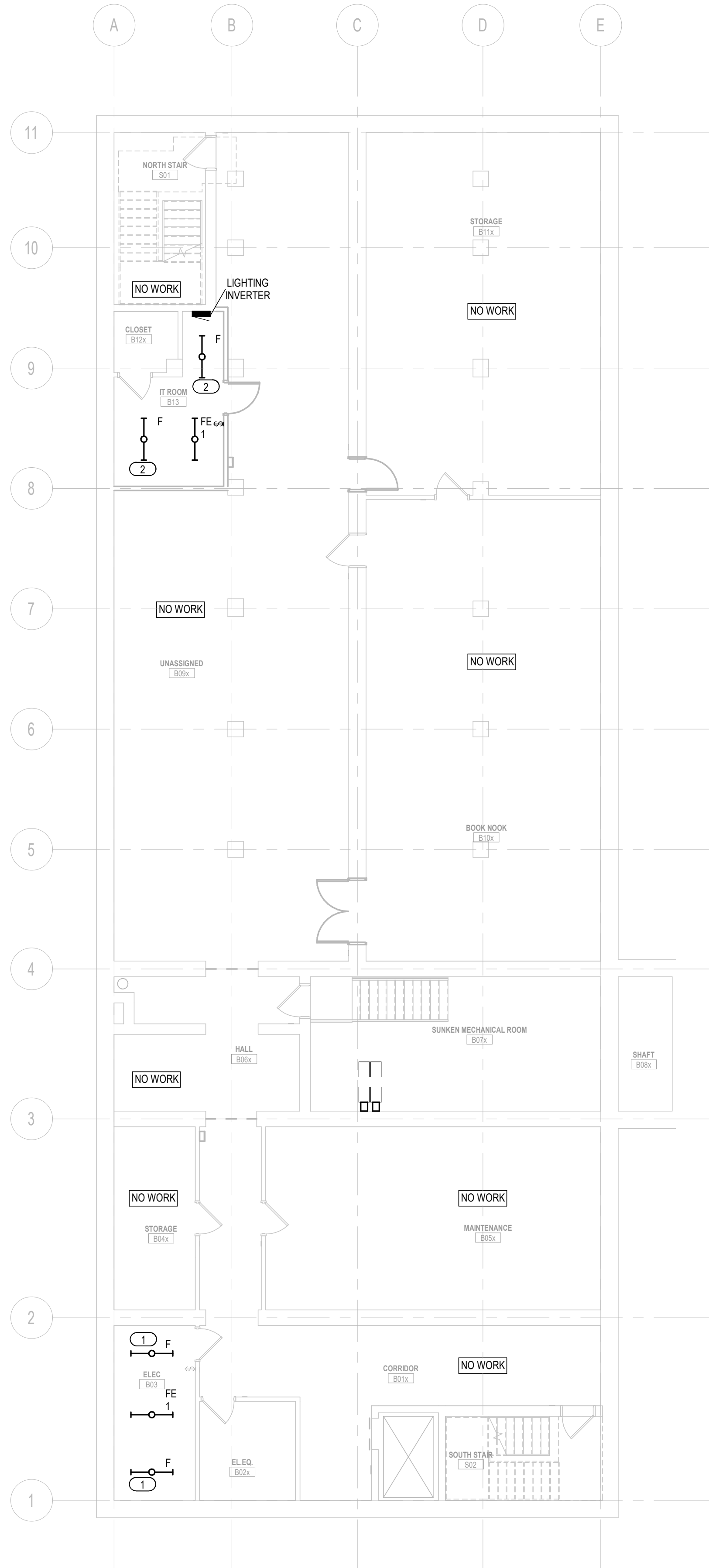
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BASEMENT ELECTRICAL PLANS

E110



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

2 BASEMENT POWER PLAN
1/8" = 1'-0"

3 BASEMENT SYSTEMS PLAN
1/8" = 1'-0"

KEYED NOTES

1 PROVIDE A 6-POLE CONTACTOR WITH LOW VOLTAGE CONTROL SWITCH FOR CONTROL OF MAIN LIBRARY LIGHTING. CIRCUITS TO BE CONTROLLED: LP1 CIRCUITS 18,20,26 AND INVERTER PANEL CIRCUIT 7.

KEYED NOTES

1 PROVIDE CONNECTION AS REQUIRED TO HANDICAP ACCESSIBLE DOORS INCLUDING REQUIRED LOW VOLTAGE CONNECTIONS. COORDINATE WITH EQUIPMENT SUPPLIER FOR ADDITIONAL INFORMATION.

2 PROVIDE A LEGRAND 6AT SERIES POKE THRU WITH DEVICES SHOWN. UTILIZE A 3/4" C FOR POWER AND A 1-1/4" C FOR DATA. REFER TO SIGNAL DRAWINGS FOR ADDITIONAL INFORMATION.

3 PROVIDE 120V POWER TO FIREPLACE. PROVIDE CONTROL SWITCH AS REQUIRED. COORDINATE WITH FIREPLACE SUPPLIER FOR ADDITIONAL INFORMATION.

4 PROVIDE A LEGRAND 4FFATC15 SERIES OR APPROVED EQUAL FURNITURE FEED ONE EACH FOR POWER AND DATA. PROVIDE A FLEX WHIP CONNECTION FROM POKE-THRU TO DEVICES SHOWN. UTILIZE A 3/4" C FOR POWER AND A 1-1/4" C ROUTED TO ACCESSIBLE CEILING SPACE FOR DATA. CONTRACTOR TO PROVIDE RECEPTACLE DEVICES AS SHOWN. COORDINATE WITH ARCHITECTURAL DETAILS FOR PLACEMENT OF DEVICES. FIELD VERIFY EXACT CONDITIONS.

KEYED NOTES CONT.

5 PROVIDE 120V POWER TO POWERED BLINDS. PROVIDE CONTROL SWITCH AS REQUIRED. COORDINATE WITH SUPPLIER FOR ADDITIONAL INFORMATION.

6 PROVIDE 120V POWER TO COMBINATION FIRE SMOKE DAMPER. COORDINATE WITH DIVISION 23.

7 PROVIDE A LEGRAND TV3WTVSSW OR APPROVED EQUAL MOUNTED FOR MONITOR CONNECTIONS. UTILIZE A 3/4" CONDUIT FOR POWER AND A 1-1/2" CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE FOR SIGNAL. COORDINATE WITH AV CONSULTANT.

KEYED NOTES

1 REINSTALL BY NECESSARY MEANS EXISTING MOTION DETECTOR.

2 REINSTALL BY NECESSARY MEANS EXISTING WIRELESS ACCESS POINT.

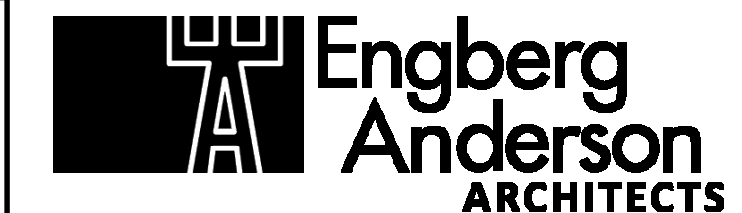
3 PROVIDE CONNECTION FROM FIRE/SMOKE DAMPER SMOKE DETECTOR TO FIRE ALARM SYSTEM BY NECESSARY MEANS.

GENERAL NOTES

A REFER TO SHEET E001 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, AND ADDITIONAL GENERAL NOTES THAT APPLY.

B LIGHTING/RECEPTACLE CIRCUITS TO BE FED VIA PANEL "LP-1". EMERGENCY LIGHTING CIRCUITS TO BE FED VIA NEW LIGHTING INVERTER LOCATED IN BASEMENT.

C DAYLIGHT SENSORS TO CONTROL FIRST 10 FEET OF LIGHTING WITHIN THE SPACE.



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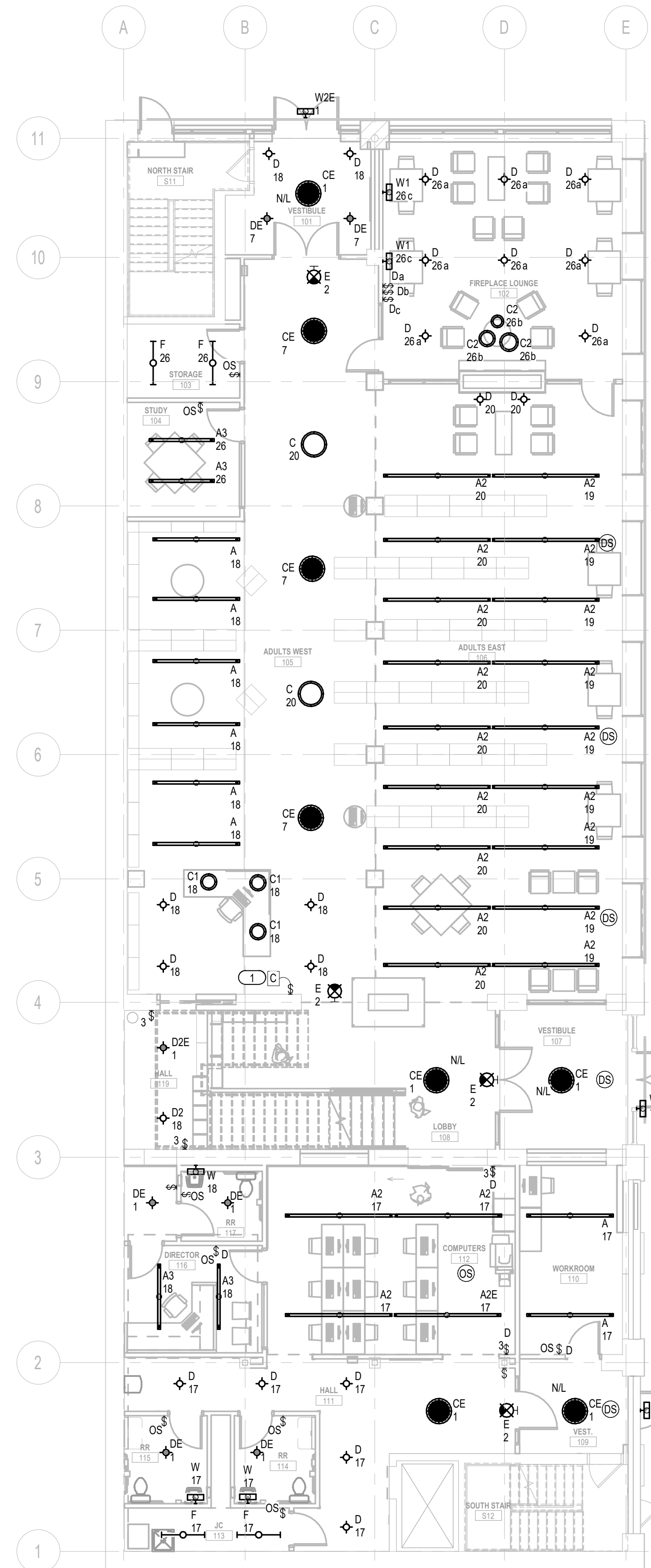
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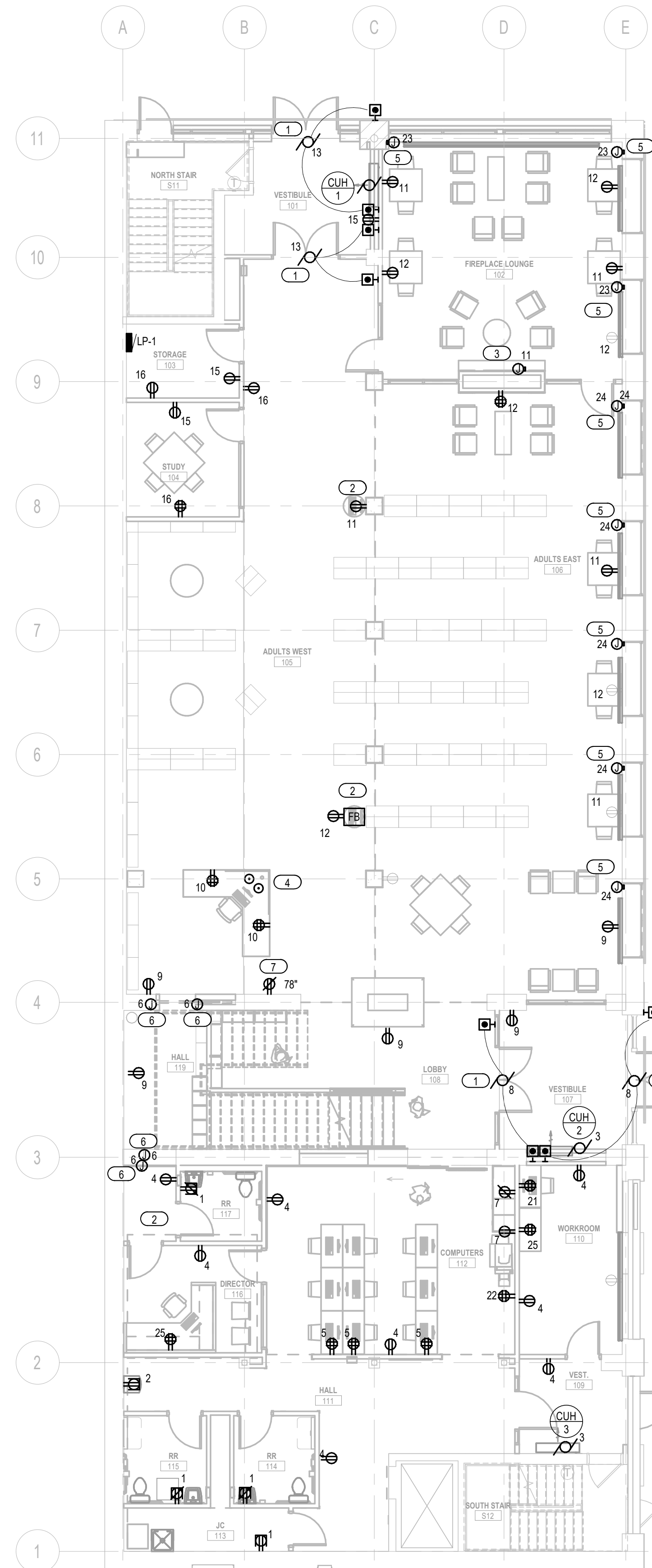
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FIRST FLOOR ELECTRICAL PLANS

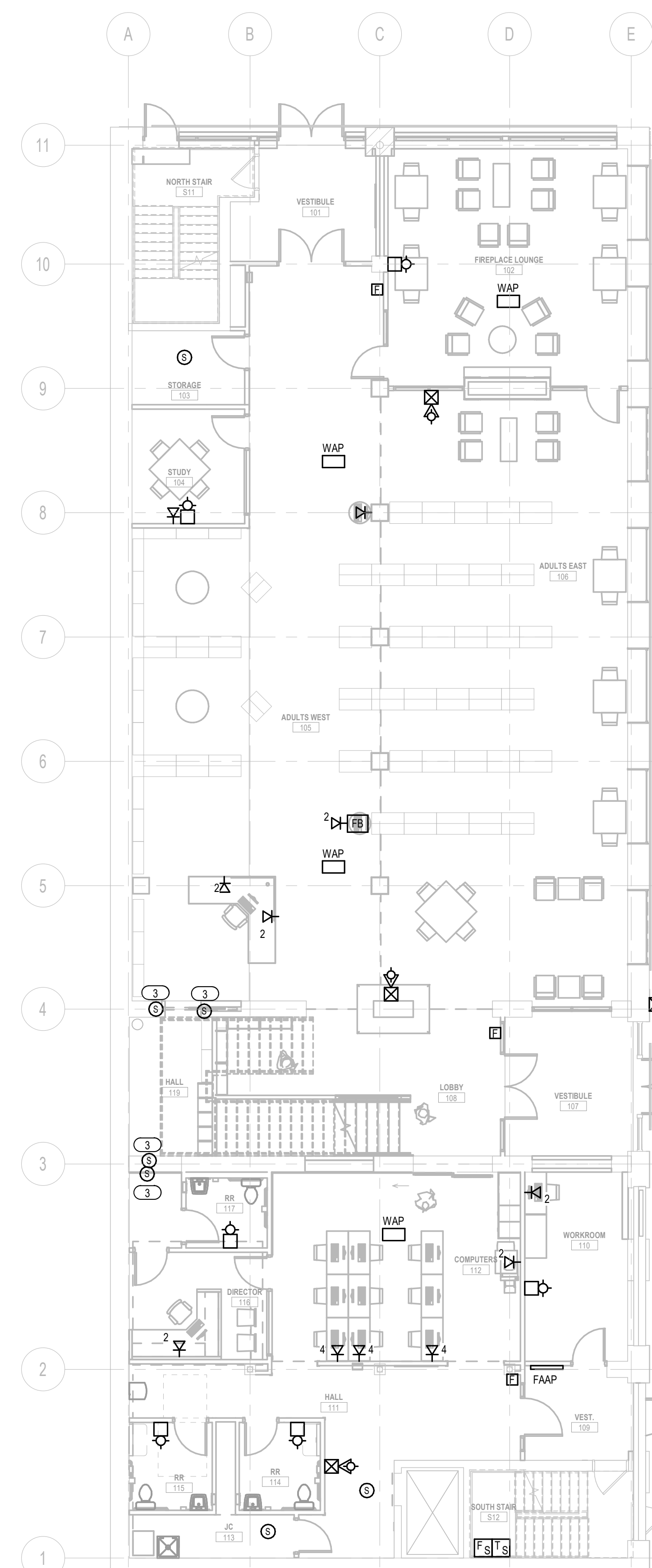
E111



3 FIRST FLOOR LIGHTING PLAN
1/8" = 1'-0"



1 FIRST FLOOR POWER PLAN
1/8" = 1'-0"



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



- KEYED NOTES**
- HISTORIC FIXTURE PROVIDED BY LIBRARY. PROVIDE NEW LED LAMP, 3K
 - MAINTAIN POWER BY NECESSARY MEANS TO EXISTING LIGHTING IN STAIRWELL. FIELD VERIFY EXACT CONDITIONS.
 - PROVIDE A 6-POLE CONTACTOR WITH LOW VOLTAGE CONTROL SWITCH FOR CONTROL OF MAIN LIBRARY LIGHTING. CIRCUITS TO BE CONTROLLED: INVERTER PANEL CIRCUIT 7, LP2 CIRCUITS 11, 13, 14, 15.

- KEYED NOTES**
- PROVIDE A LEGRAND 6AT SERIES POKE THRU WITH DEVICES SHOWN. UTILIZE A 3/4" C FOR POWER AND A 1-1/2" C STUBBED TO ACCESSIBLE CEILING SPACE FOR DATA. REFER TO SIGNAL DRAWINGS FOR ADDITIONAL INFORMATION.
 - PROVIDE A LEGRAND TV3WTVSSW OR APPROVED EQUAL MOUNTED AT 60" FOR MONITOR CONNECTIONS. UTILIZE A 3/4" CONDUIT FOR POWER AND A 1-1/2" CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE FOR SIGNAL.
 - PROVIDE 120V POWER TO POWERED BLINDS. PROVIDE CONTROL SWITCH AS REQUIRED. COORDINATE WITH SUPPLIER FOR ADDITIONAL INFORMATION.
 - PROVIDE 120V POWER TO COMBINATION FIRE SMOKE DAMPER. COORDINATE WITH DIVISION 23.
 - MAINTAIN POWER BY NECESSARY MEANS TO ANY EXISTING DEVICES IN STAIRWELL. FIELD VERIFY EXACT CONDITIONS.

- KEYED NOTES**
- PROVIDE A 1-1/4" CONDUIT WITH PULLSTRING FOR DATA CONNECTION. REFER TO POWER PLAN KEYED NOTE 1 FOR POKE-THRU INFORMATION.
 - PROVIDE CONNECTION FROM FIRE/SMOKE DAMPER SMOKE DETECTOR TO FIRE ALARM SYSTEM BY NECESSARY MEANS.

- GENERAL NOTES**
- REFER TO SHEET E001 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, AND ADDITIONAL GENERAL NOTES THAT APPLY.
 - LIGHTING/RECEPTACLE CIRCUITS TO BE FED VIA PANEL "LP-2". ALL EMERGENCY LIGHTING CIRCUITS TO BE FED VIA NEW LIGHTING INVERTER LOCATED IN BASEMENT.
 - DAYLIGHT SENSORS TO CONTROL FIRST 10 FEET OF LIGHTING WITHIN THE SPACE.



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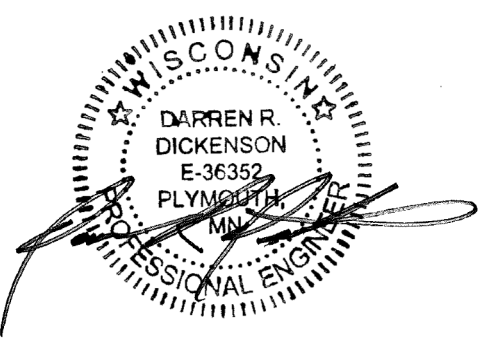
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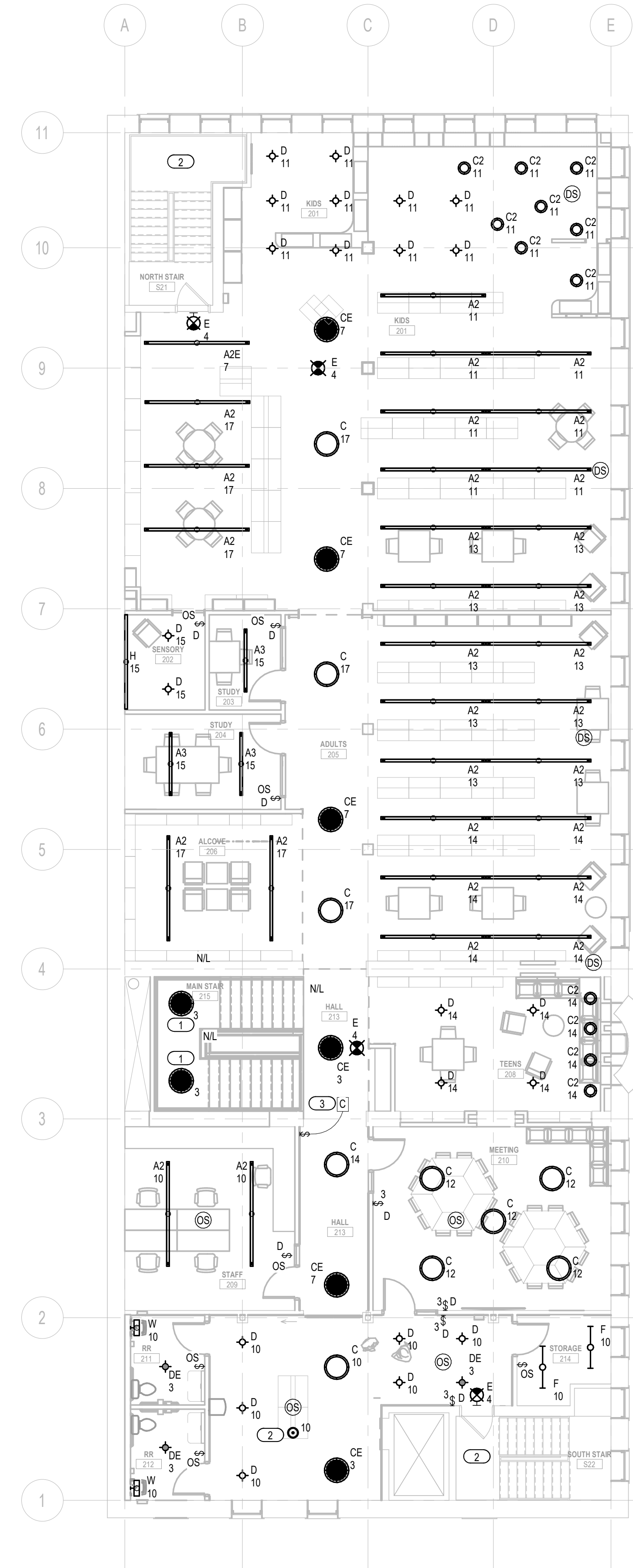
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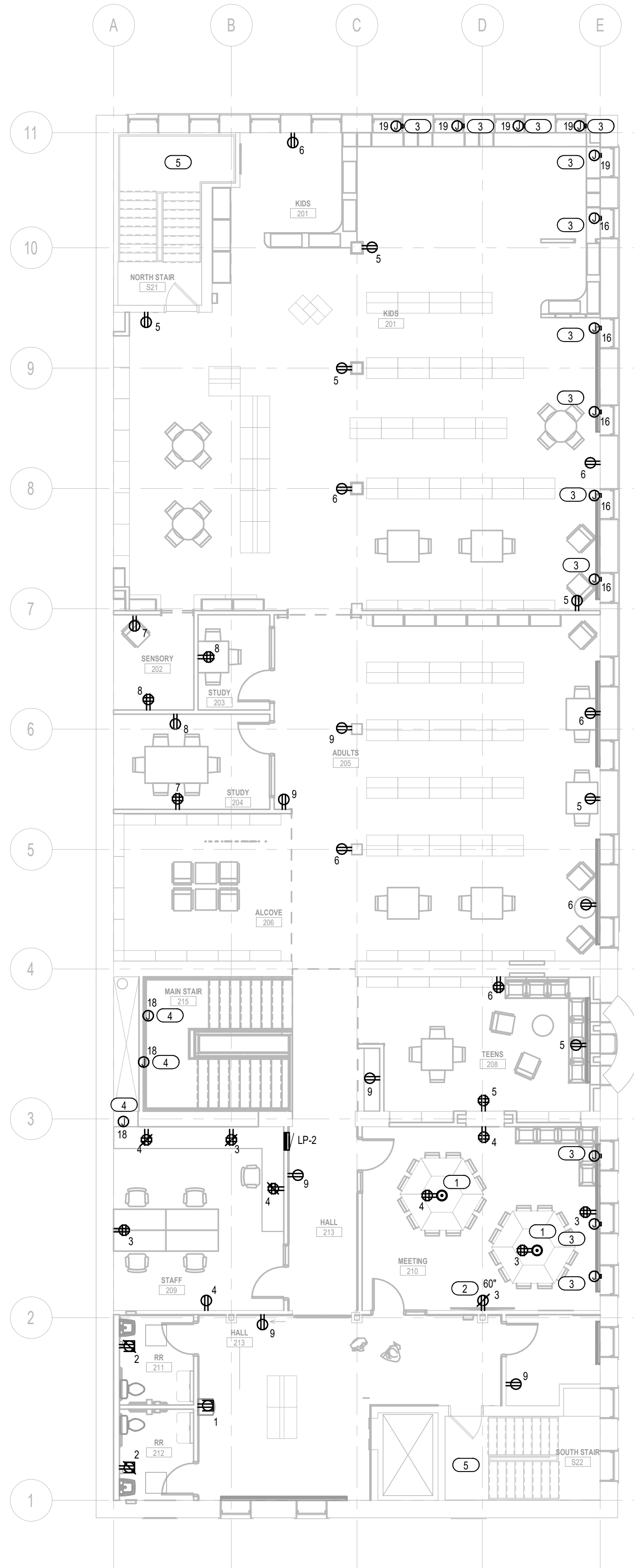
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SECOND FLOOR ELECTRICAL PLANS

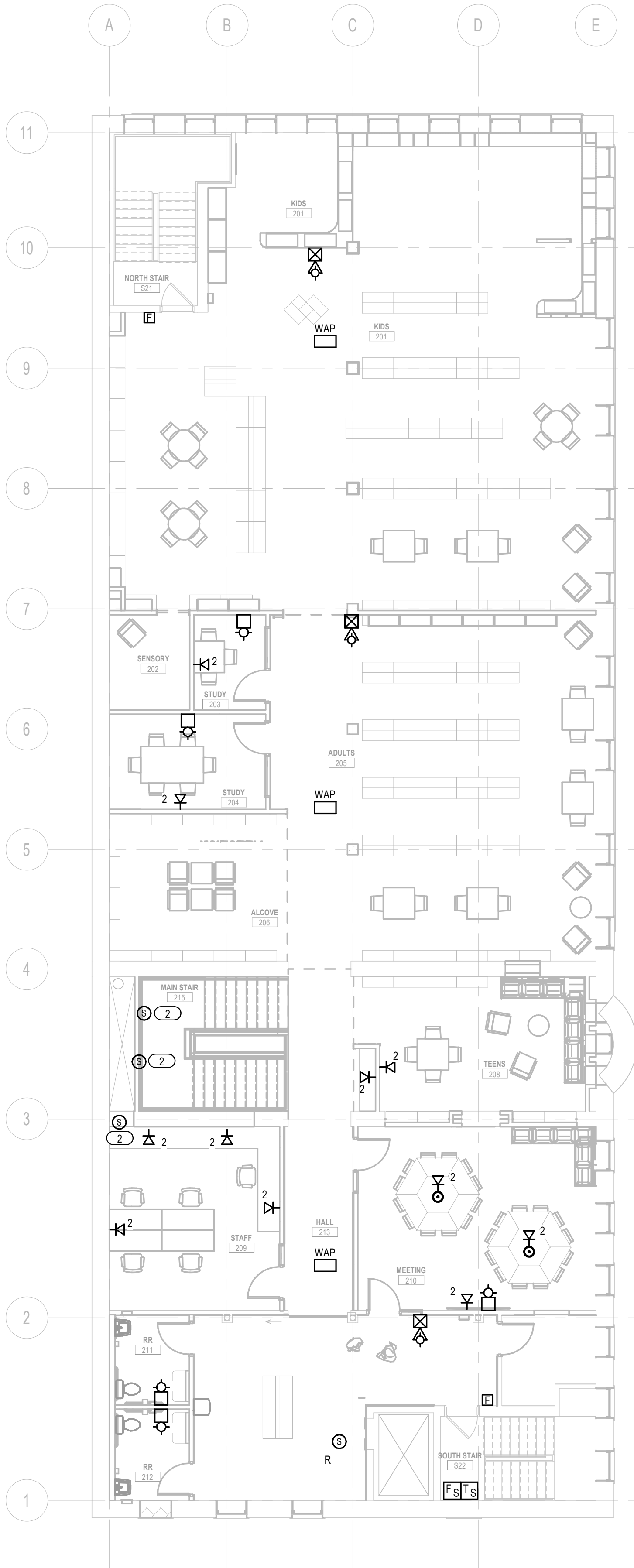
E112



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



1 SECOND FLOOR POWER PLAN
1/8" = 1'-0"



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



KEYED NOTES	
1	MAINTAIN POWER TO EXISTING STAIRWELL LIGHTING. FIELD VERIFY EXISTING CONDITIONS.
2	SEE SHEET E401 FOR LIGHTING CONTROL INFO.

KEYED NOTES	
1	PROVIDE A 120V CONNECTION TO POWERED SCREEN. PROVIDE CONTROL SWITCH AS REQUIRED. LABEL AS TO USE. COORDINATE WITH EQUIPMENT SUPPLIER.
2	PROVIDE CONNECTION AS REQUIRED TO TEMPERATURE CONTROL PANELS. COORDINATE WITH DIV. 23.
3	PROVIDE CONNECTION TO DISHWASHER AS REQUIRED. COORDINATE WITH EQUIPMENT SUPPLIER.
4	PROVIDE CONNECTION TO HOOD ANSUL SYSTEM AS REQUIRED. COORDINATE WITH EQUIPMENT SUPPLIER AND DIV. 23.
5	PROVIDE A LEGRAND 8AT SERIES POKE THRU WITH DEVICES SHOWN. UTILIZE A 3/4" C FOR POWER AND A 1-1/2" C STUBBED TO ACCESSIBLE CEILING SPACE FOR DATA. REFER TO SIGNAL DRAWINGS FOR ADDITIONAL INFORMATION.

KEYED NOTES CONT.	
6	PROVIDE A LEGRAND TV3WTVSSW OR APPROVED EQUAL MOUNTED FOR MONITOR CONNECTIONS. UTILIZE A 3/4" CONDUIT FOR POWER AND A 1-1/2" CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE FOR SIGNAL. COORDINATE WITH AV CONSULTANT.
7	PROVIDE 120V POWER TO POWERED BLINDS. PROVIDE CONTROL SWITCH AS REQUIRED. COORDINATE WITH SUPPLIER FOR ADDITIONAL INFORMATION.
8	MAINTAIN POWER BY NECESSARY MEANS TO ANY EXISTING DEVICES IN STAIRWELL. FIELD VERIFY EXACT CONDITIONS.
9	PROVIDE A LEGRAND 8AT SERIES POKE THRU WITH DEVICES SHOWN. UTILIZE A 3/4" C FOR POWER AND A 1-1/2" C STUBBED TO ACCESSIBLE CEILING SPACE FOR DATA. REFER TO SIGNAL DRAWINGS FOR ADDITIONAL INFORMATION.

GENERAL NOTES	
A	REFER TO SHEET E001 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, AND ADDITIONAL GENERAL NOTES THAT APPLY.
B	LIGHTING/RECEPTACLE CIRCUITS TO BE FED VIA PANEL "LP-3". EMERGENCY LIGHTING CIRCUITS TO BE FED VIA NEW LIGHTING INVERTER LOCATED IN BASEMENT.
C	DAYLIGHT SENSORS TO CONTROL FIRST 10 FEET OF LIGHTING WITHIN THE SPACE.



MILWAUKEE | MADISON | TUCSON | CHICAGO



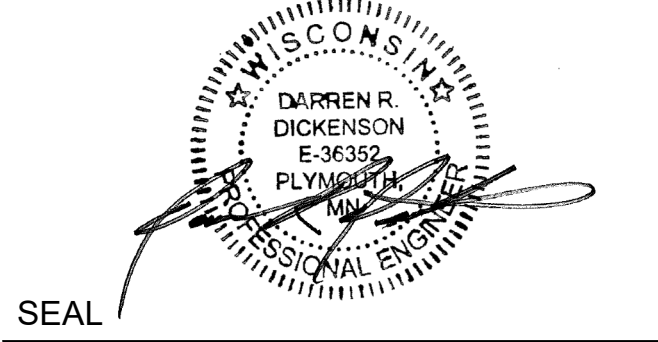
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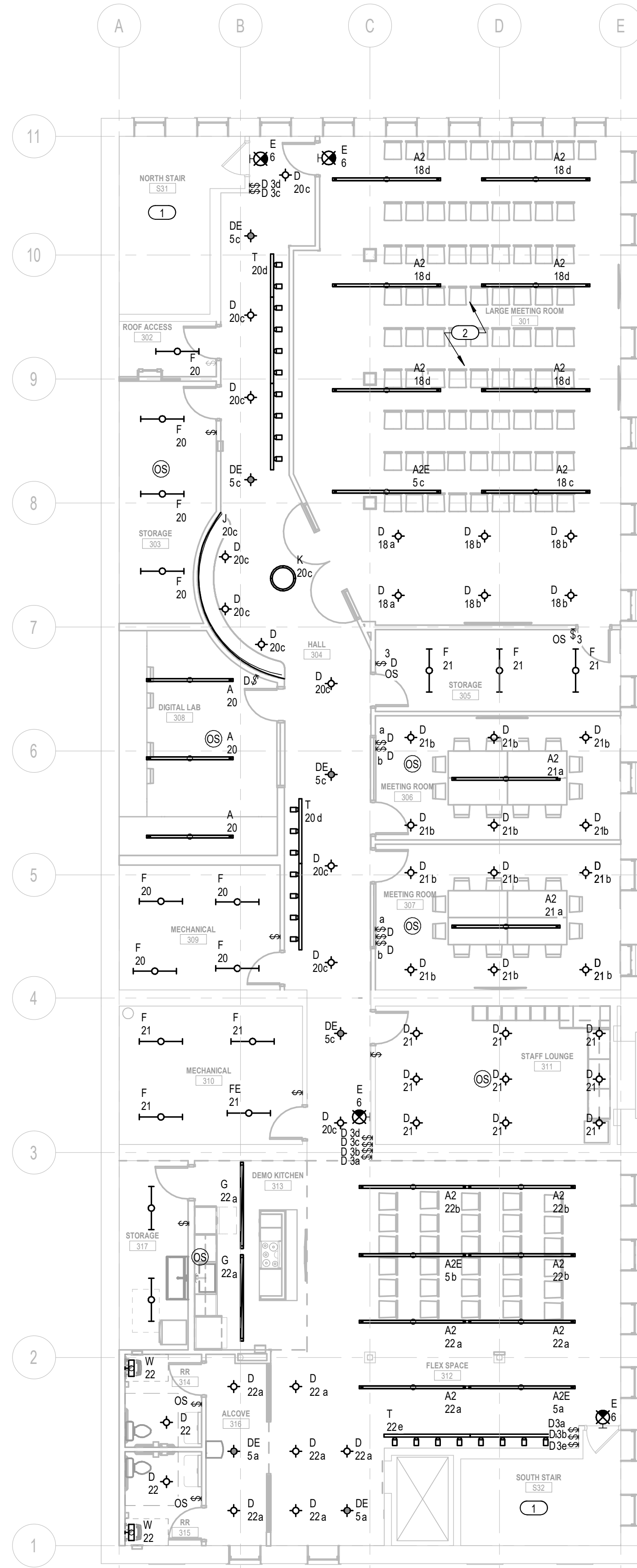
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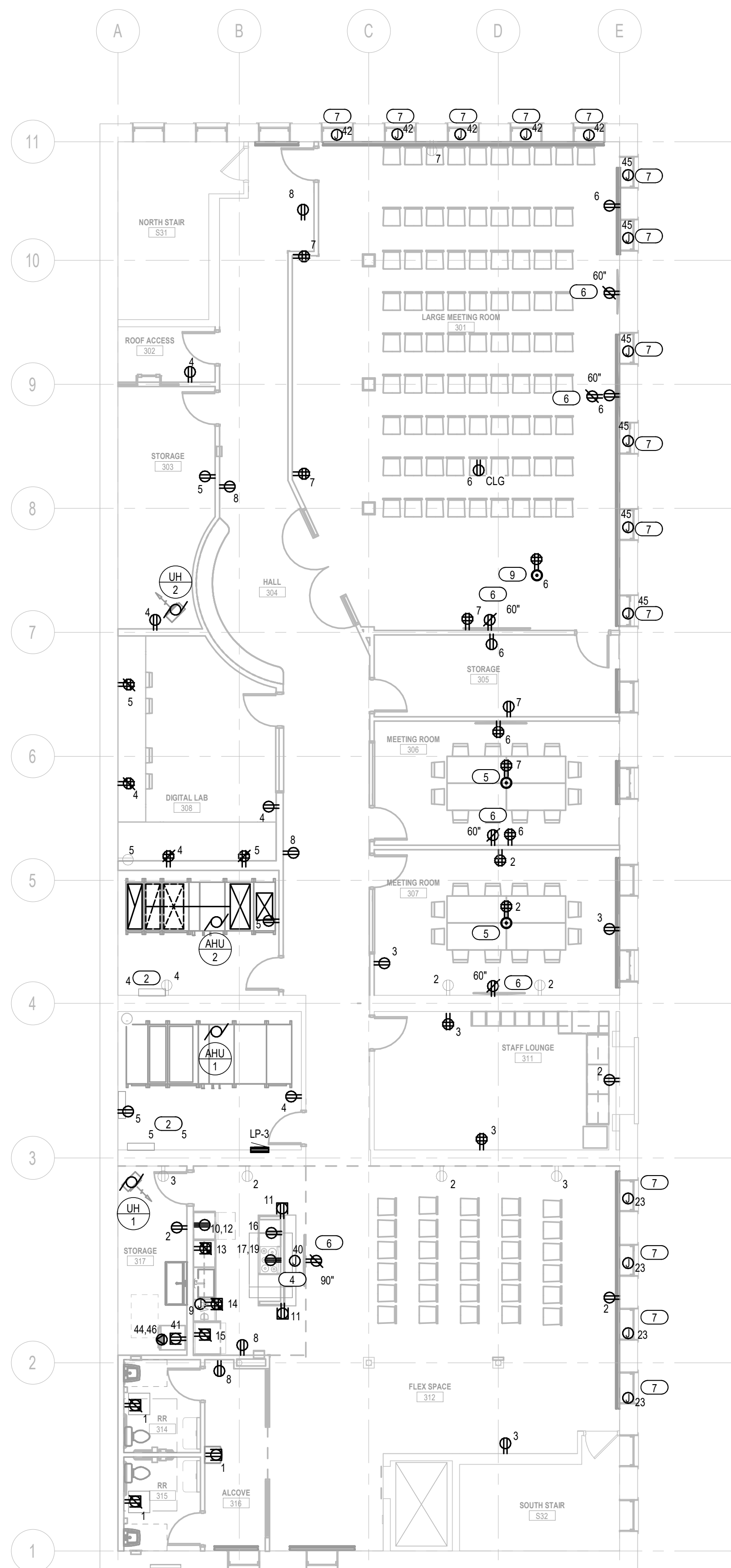
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THIRD FLOOR ELECTRICAL PLANS

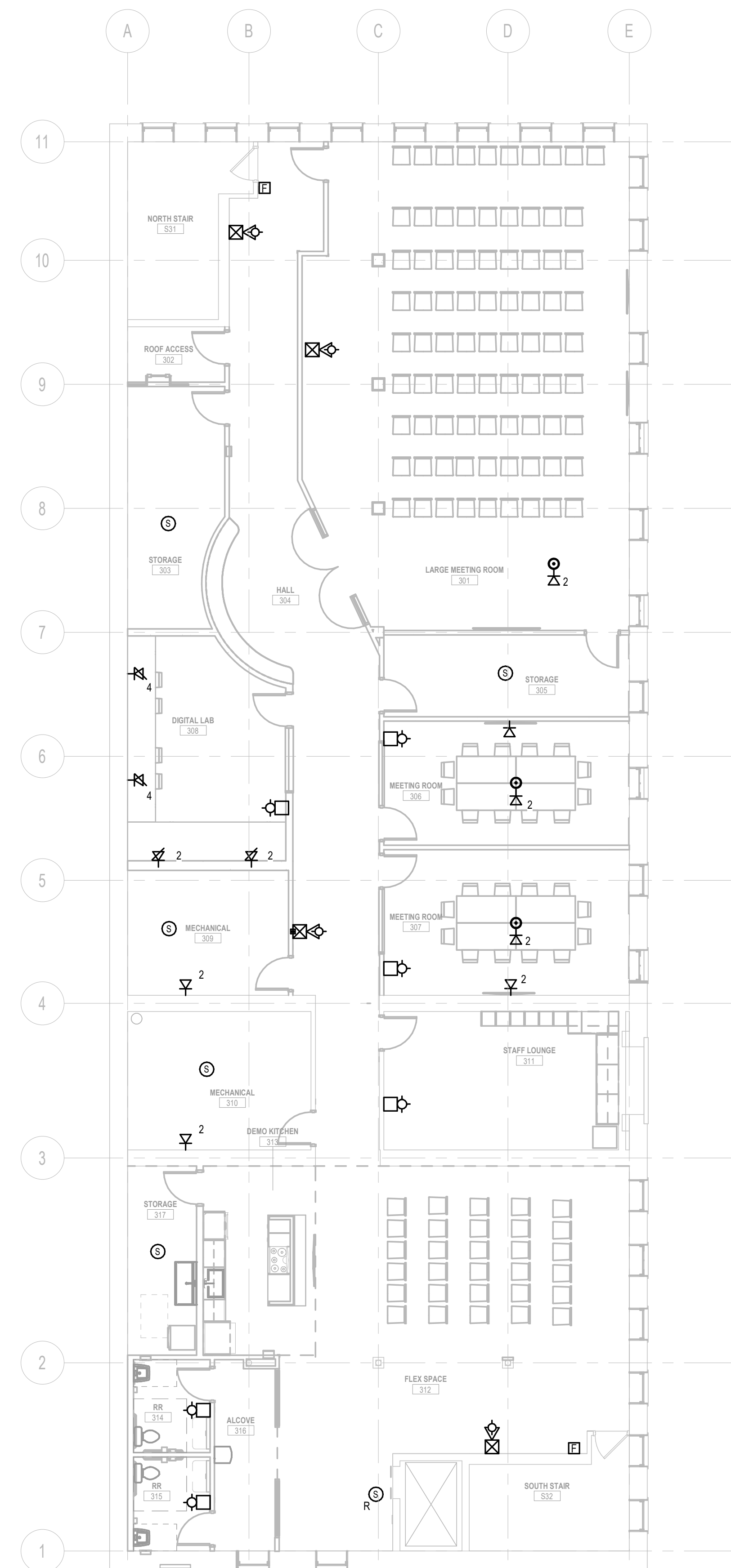
E113



3 THIRD FLOOR LIGHTING PLAN
1/8" = 1'-0"



2 THIRD FLOOR POWER PLAN
1/8" = 1'-0"



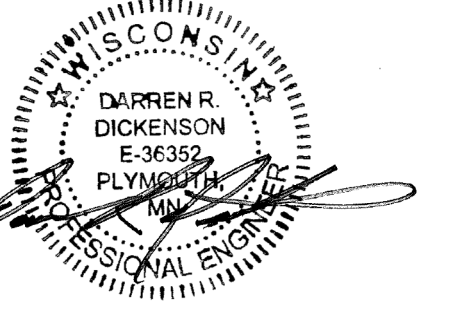
1 THIRD FLOOR SYSTEMS PLAN
1/8" = 1'-0"

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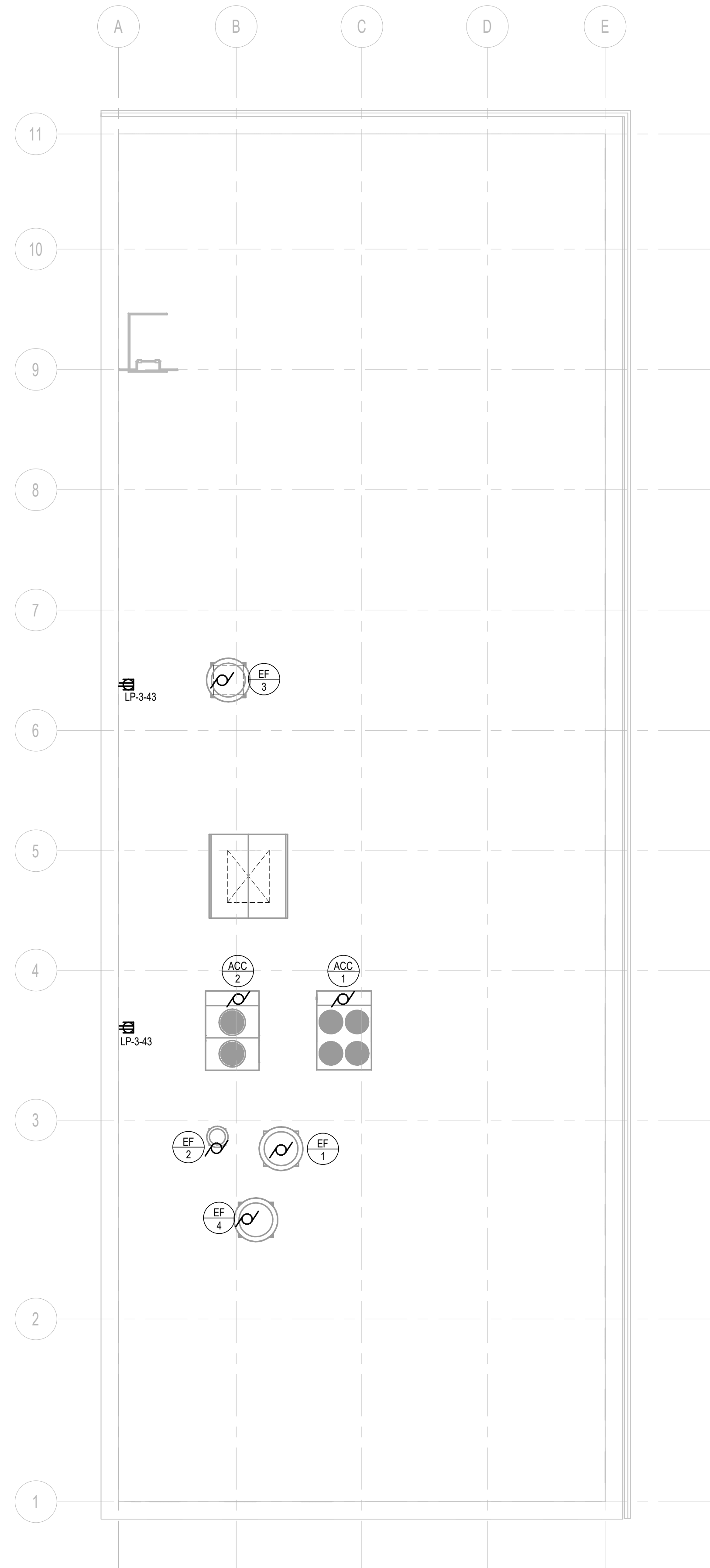
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**ROOF ELECTRICAL
PLANS**

GENERAL NOTES
A. REFER TO SHEET E001 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, AND ADDITIONAL GENERAL NOTES THAT APPLY.



2 ROOF POWER PLAN

1/8" = 1'-0"



NORTH

E114

GENERAL NOTES

- A. REFER TO SHEET E001 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, AND ADDITIONAL GENERAL NOTES THAT APPLY.
- B. LIGHTING/RECEPTACLE CIRCUITS TO BE FED VIA PANEL "LP-3". EMERGENCY LIGHTING CIRCUITS TO BE FED VIA NEW LIGHTING INVERTER LOCATED IN BASEMENT.
- C. DAYLIGHT SENSORS TO CONTROL FIRST 10 FEET OF LIGHTING WITHIN THE SPACE.



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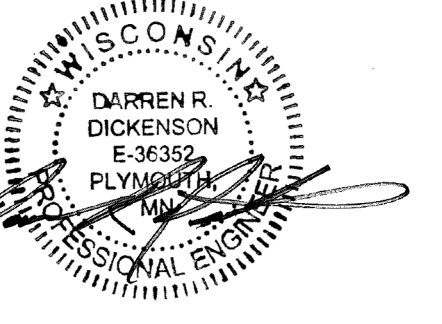
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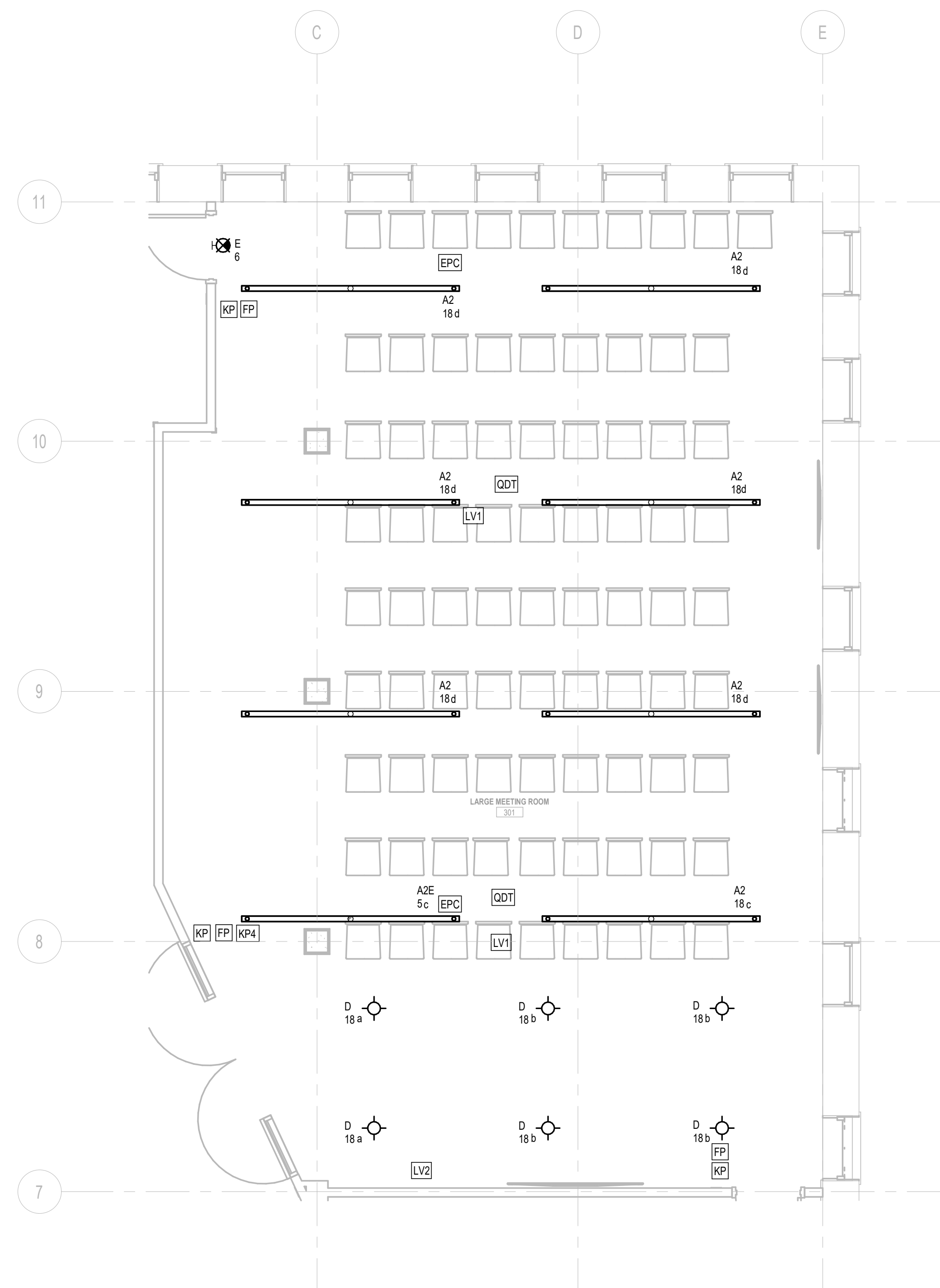
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**THIRD FLOOR
LARGE MEETING ROOM ENLARGED
LIGHTING PLAN**

Description	Quantity	Legend	Comments
FP	3		Single Gang Faceplate 3
EPC	2		UL924 Listed Emergency Power Control 2
QDT	2		Dual-Technology Ceiling Mount Occupancy Sensor 2
LV1	3		ZJM® WIRED: J-Box Load Controller, 0-10V Dimmer, 16A, 100-277V 3
KP4	1		4-Button Tree Plastic Insert 1
KP	3		ZJM® WIRED: Keypad, Rocker Button 3
LV2	1		ZJM® WIRED: J-Box Load Controller, 0-10V Dimmer, 16A, 100-277V with Net and Link Communication 1



1 THIRD FLOOR LARGE MEETING ROOM ENLARGED LIGHTING PLAN
1/4" = 1'-0"

E401

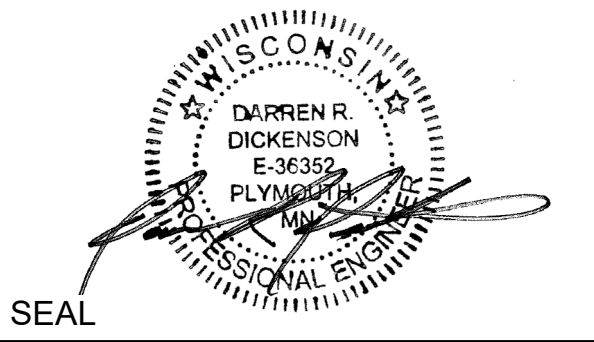


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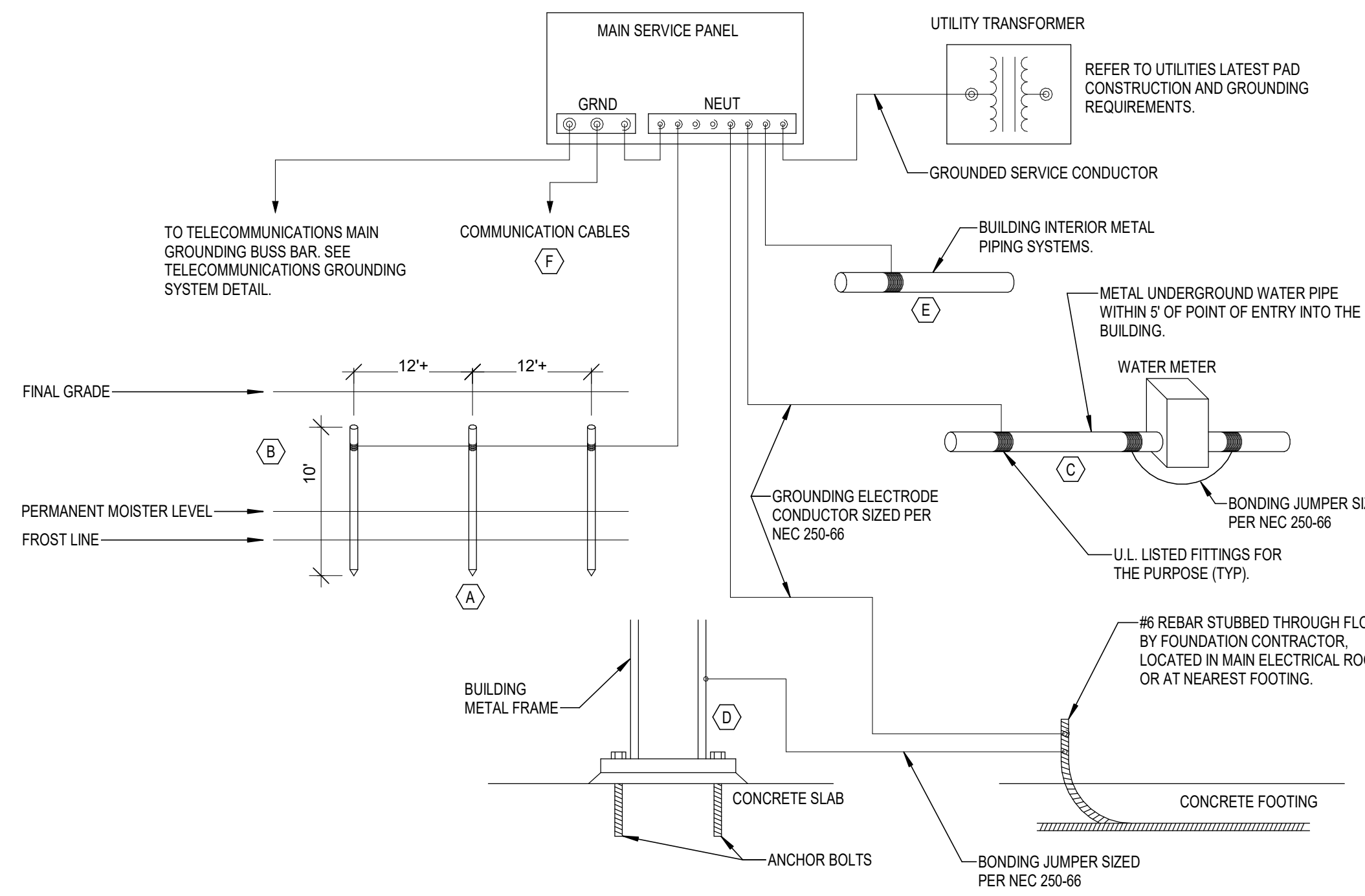


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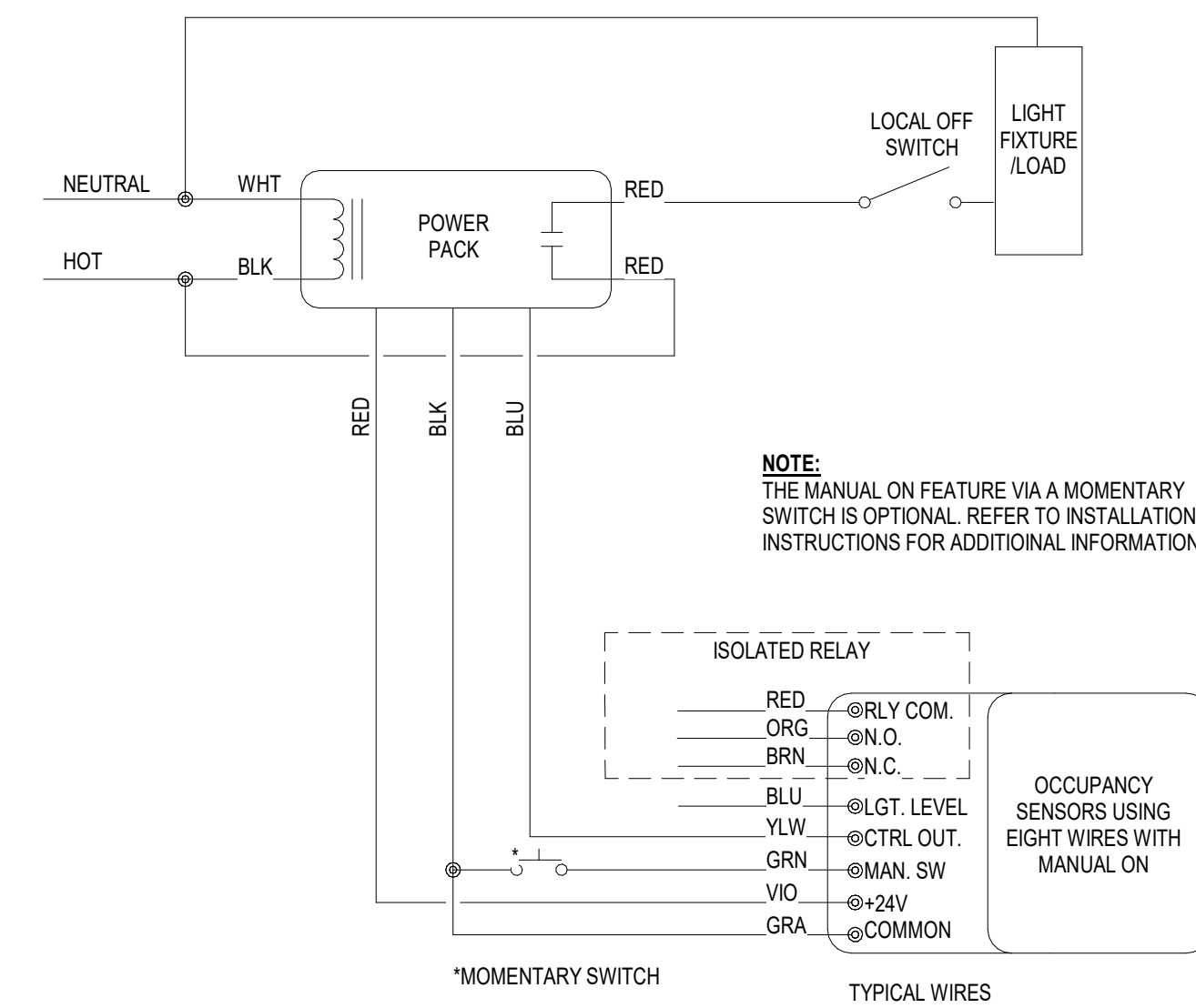
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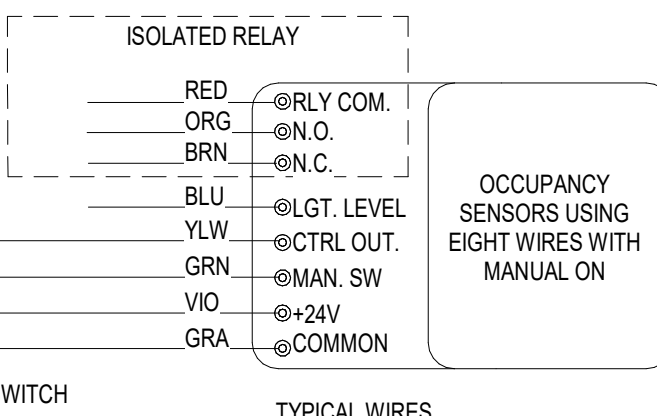
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- (A) LOCATE GROUND RODS CLEAR OF BUILDING IN A GRASS AREA WHERE RAIN WATER AND SPRINKLERS CAN KEEP THE SOIL MOIST. WHENEVER POSSIBLE, INSURE THAT AT LEAST 6'-0" OF ROD IS EMBEDDED BELOW PERMANENT MOISTURE LEVEL.
- (B) INSTALL (3) 3/4" Ø, 10'-0" LONG GROUND RODS SPACED A MINIMUM 12' APART, MAXIMUM 25' APART.
- (C) CONNECT METAL UNDERGROUND WATER PIPE IN DIRECT CONTACT WITH THE EARTH FOR 10' OR MORE TO THE GROUNDING ELECTRODE SYSTEM. USE BONDING JUMPER TO ELECTRICALLY BYPASS THE WATER METER.
- (D) THE METAL FRAME OF THE BUILDING SHALL BE BONDED TO THE #6 REBAR STUBBED THROUGH THE FLOOR FOUNDATION. SIZE BONDING JUMPER PER NEC 250-66.
- (E) BUILDING INTERIOR METAL PIPING SYSTEM(S) INSTALLED IN OR ATTACHED TO THE BUILDING OR STRUCTURE AND/OR LIKELY TO BECOME ENERGIZED, SHALL BE BONDED TO THE GROUNDING ELECTRODE SYSTEM PER NEC 250-104.
- (F) THE METALLIC SHEATH OF COMMUNICATION CABLES ENTERING BUILDINGS SHALL BE GROUNDED AS CLOSE AS PRACTICABLE TO THE POINT OF ENTRANCE IN ACCORDANCE WITH NEC 800-100.

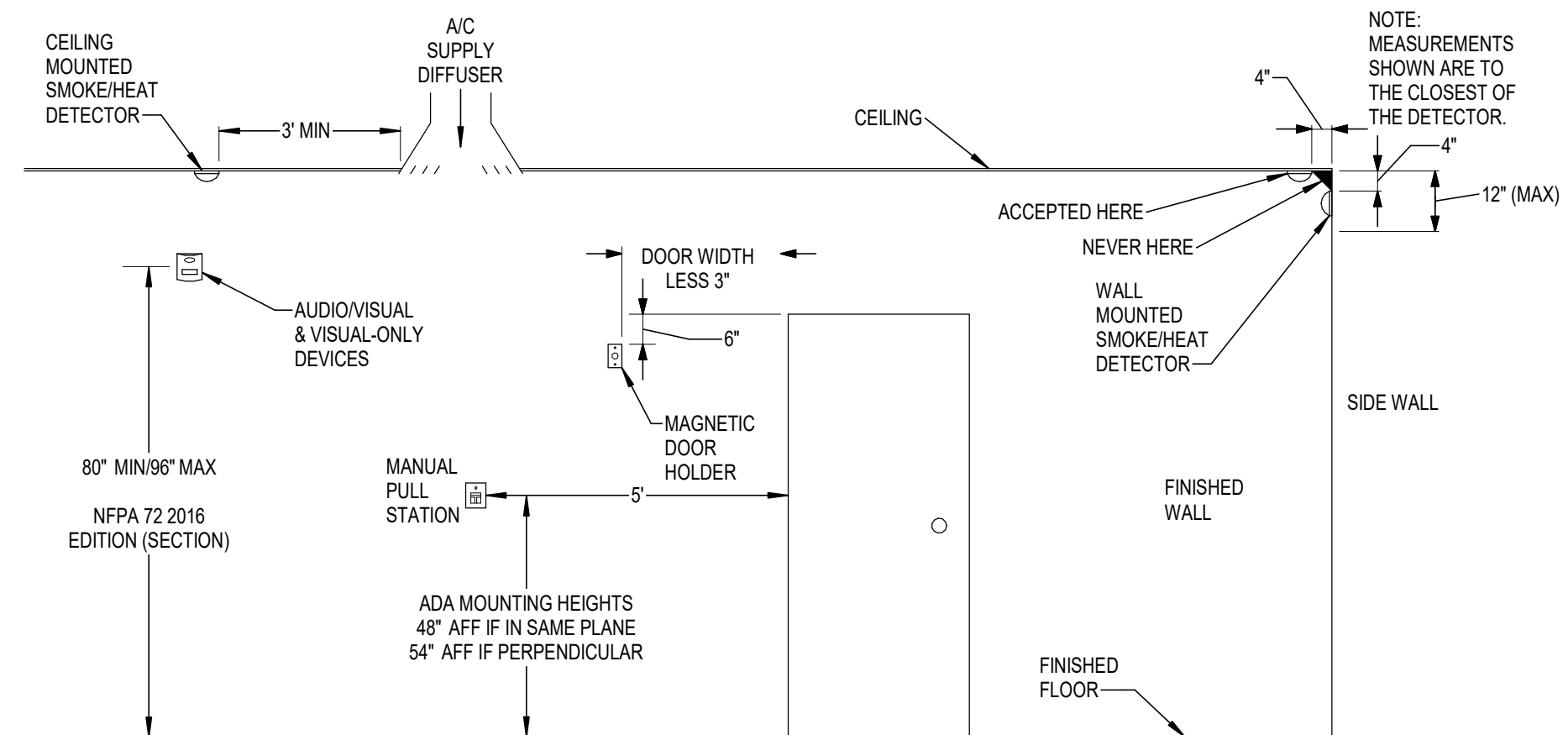
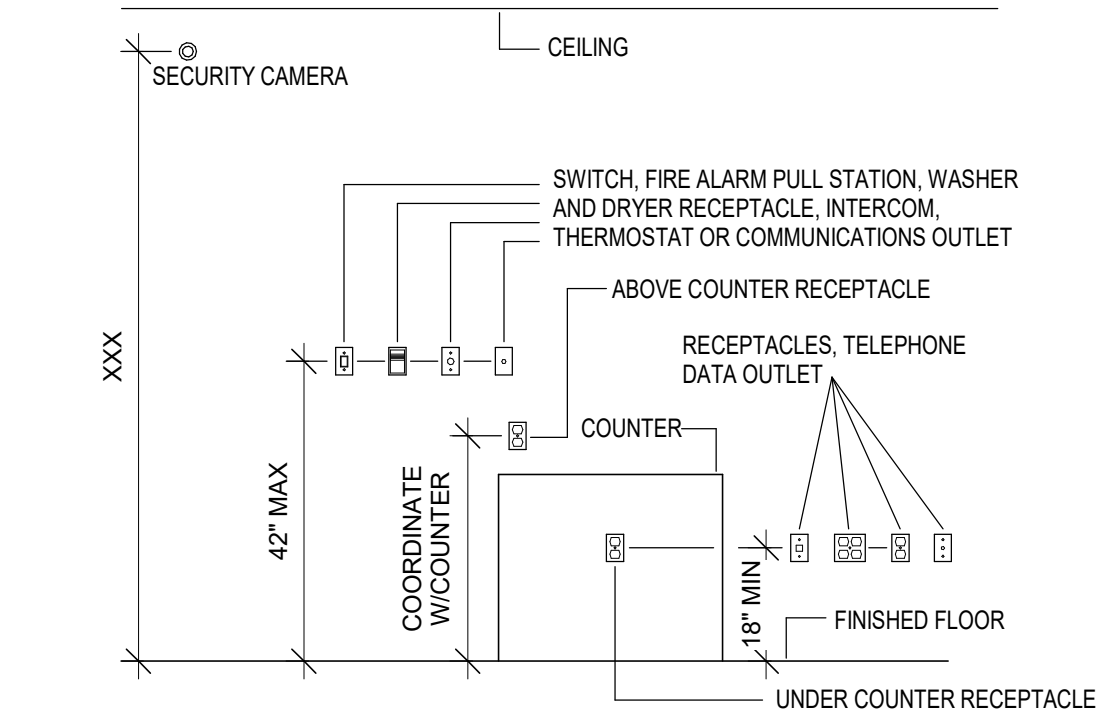
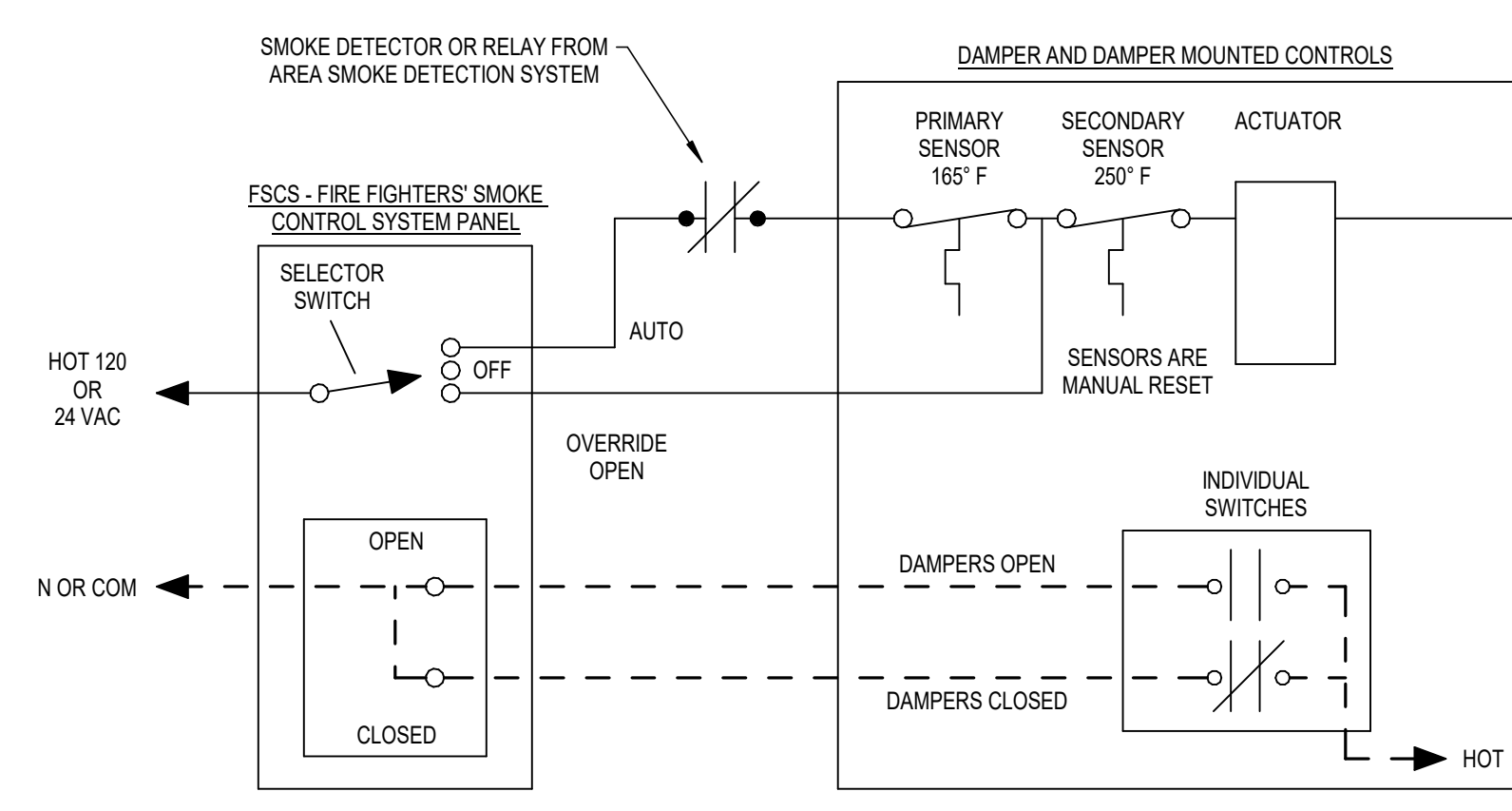


NOTE: THE MANUAL ON FEATURE VIA A MOMENTARY SWITCH IS OPTIONAL. REFER TO INSTALLATION INSTRUCTIONS FOR ADDITIONAL INFORMATION.



1 TYPICAL GROUNDING ELECTRODE SYSTEM INSTALLATION
NOT TO SCALE

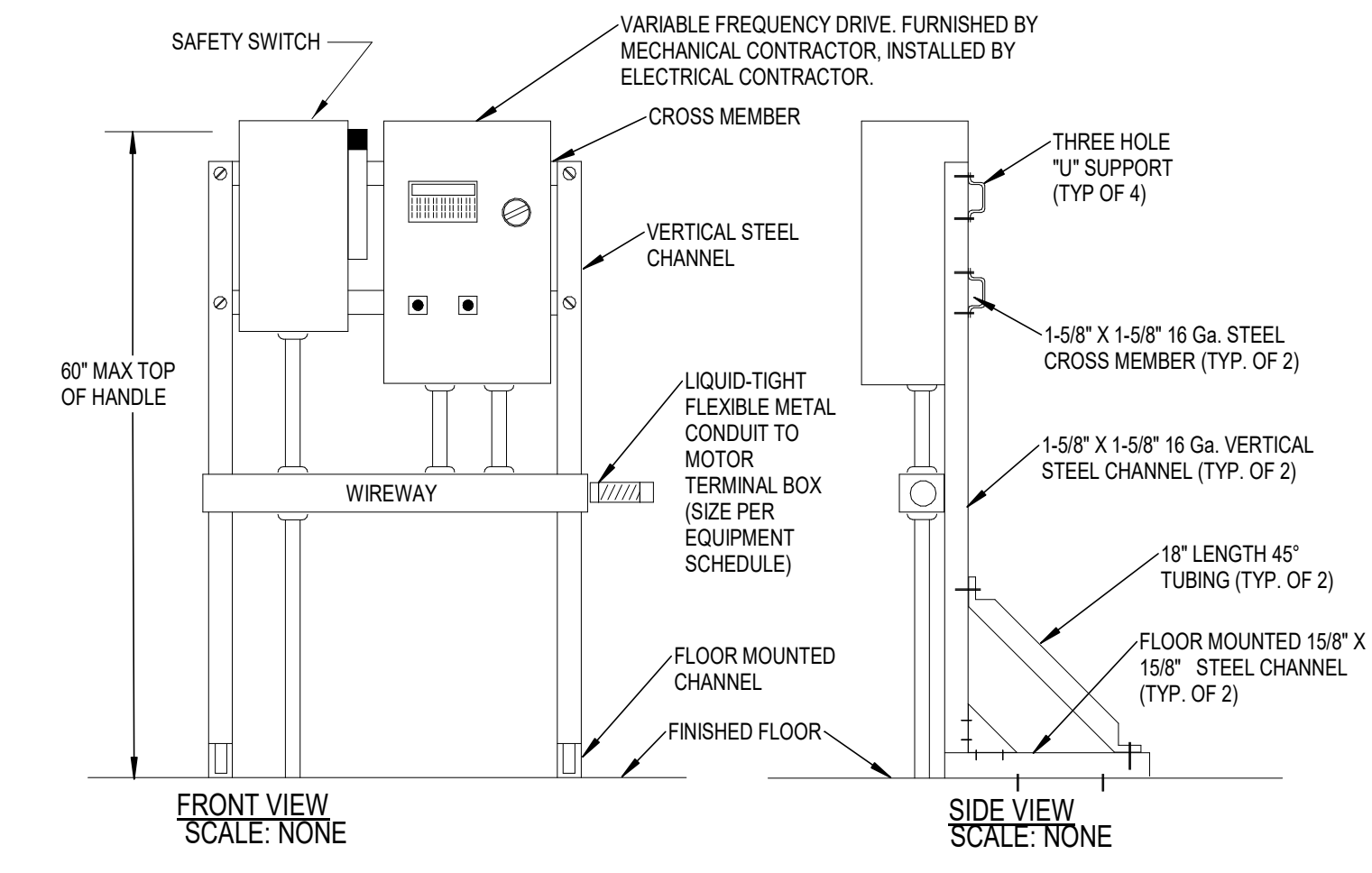
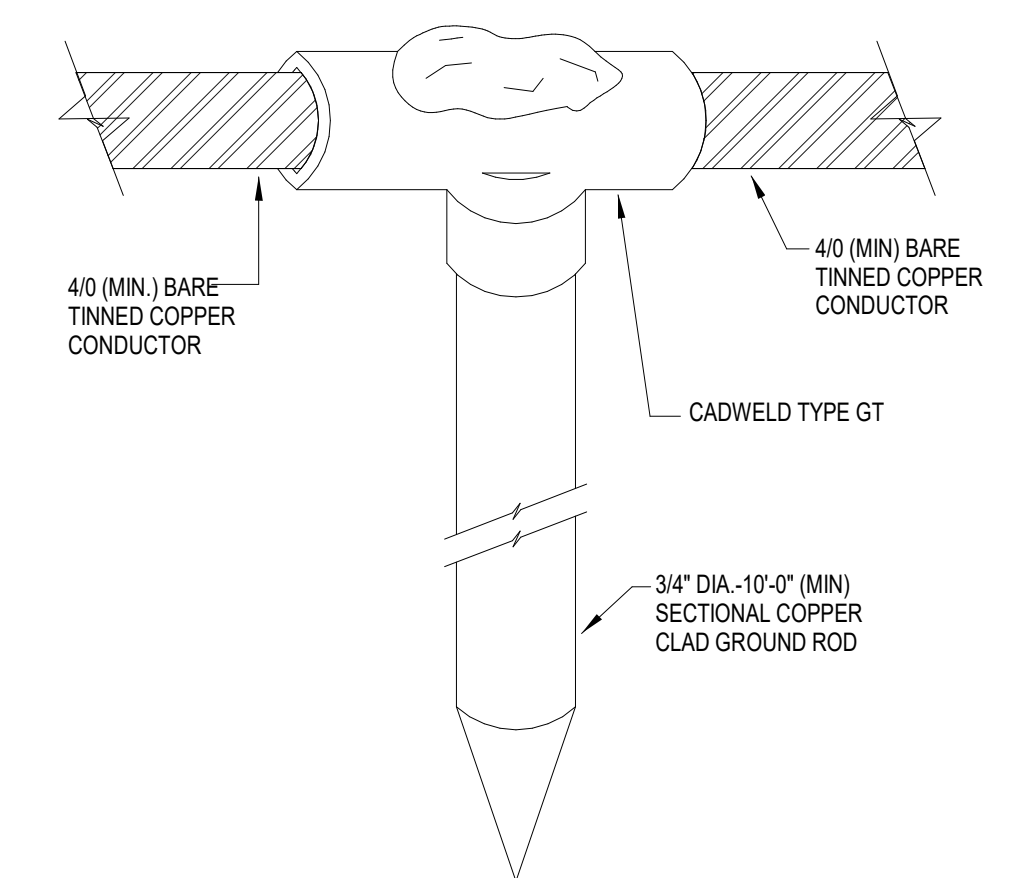
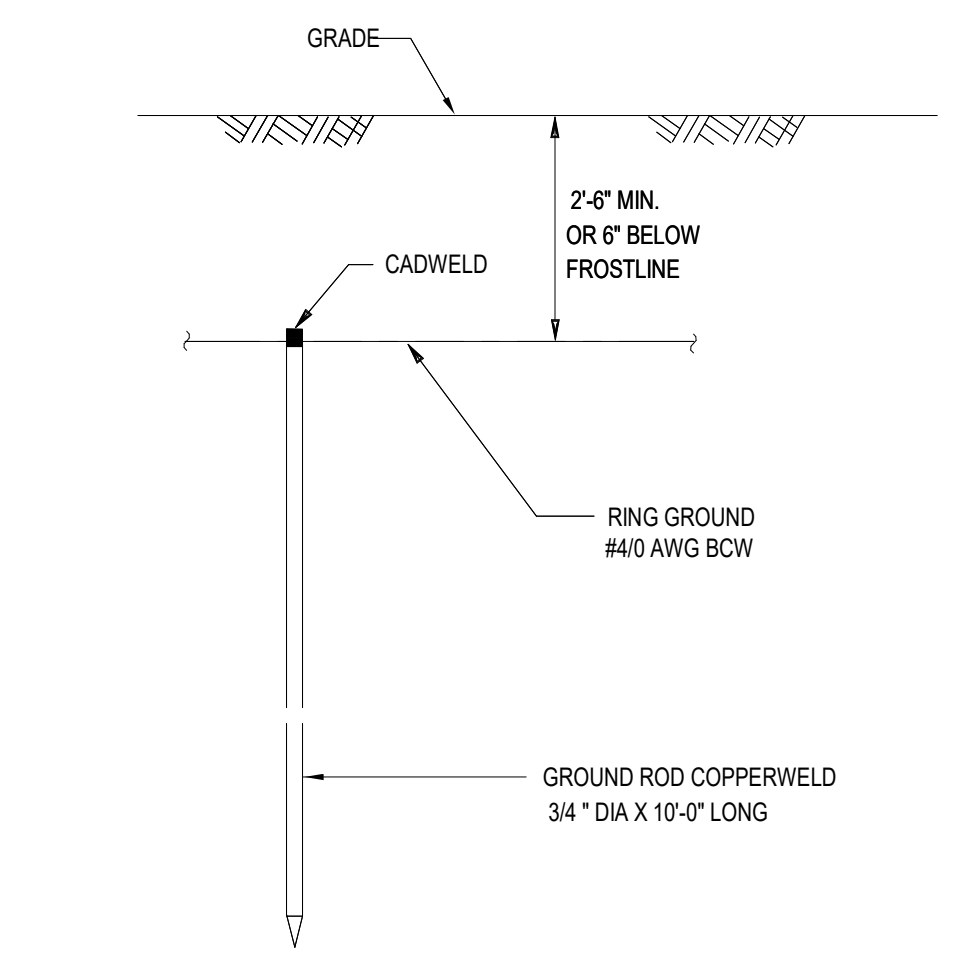
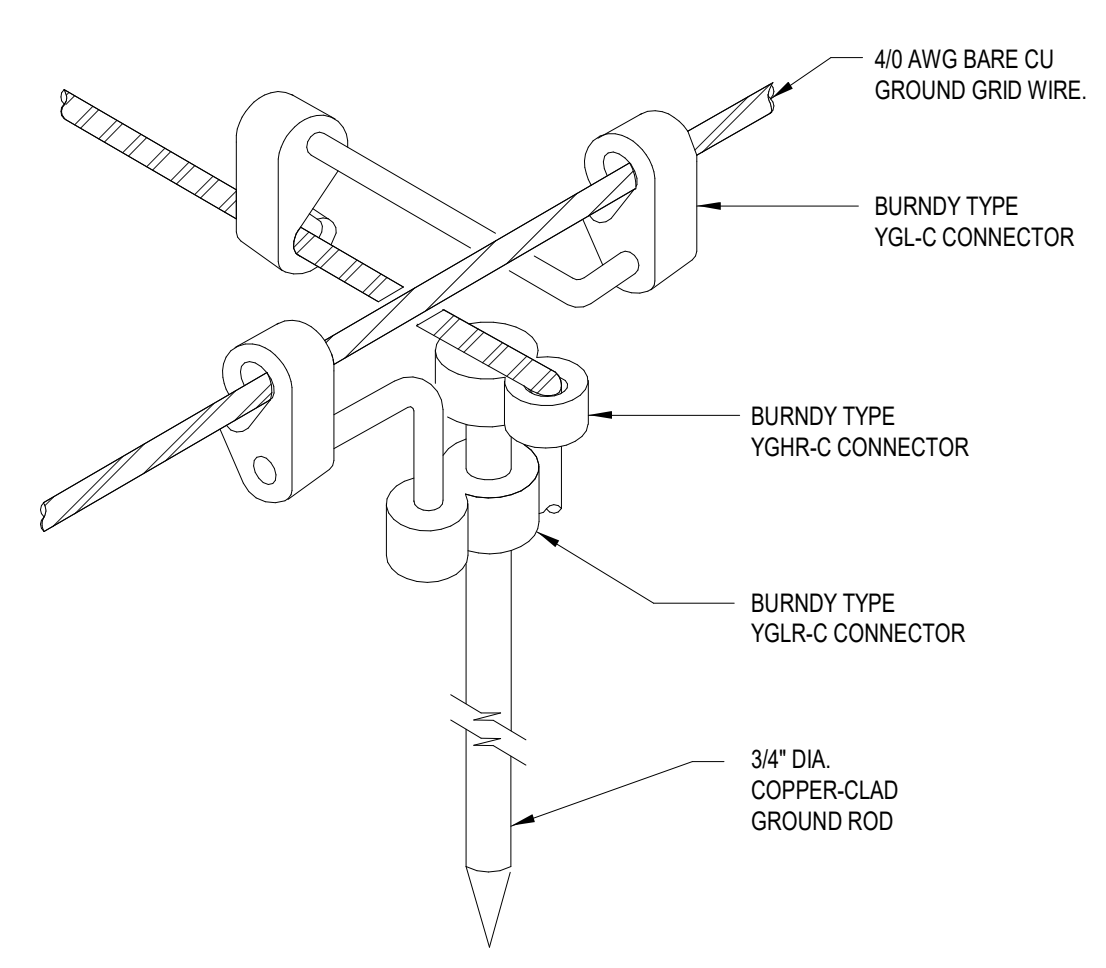
2 Occupancy Sensor Controlled Fixture
NOT TO SCALE



3 TYPICAL DAMPER CONTROLS
NTS

4 TYPICAL OUTLET MOUNTING
NOT TO SCALE

5 FIRE ALARM DEVICE MOUNTING LAYOUT
NOT TO SCALE



6 Grounding Grid Assembly Detail
NOT TO SCALE

7 Grounding Standard Detail
NOT TO SCALE

8 Cadweld Connector to Ground Rod
NOT TO SCALE

9 VFD Stand Mounting Detail
NOT TO SCALE

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**ELECTRICAL
DETAILS**

E501

LIGHT FIXTURE SCHEDULE

TYPE MARK	DESCRIPTION	MANUFACTURER	MODEL / SERIES	APPARENT LOAD	MOUNTING	NOTES
A	8' DIRECT/INDIRECT LINEAR LED	AXIS	TB3-400-1000-80-B35-TW2750-SO-SO-XX-W-UNIV-DP-1-CT9	104 VA	CABLE	
A2	10' DIRECT/INDIRECT LINEAR LED	AXIS	TB3-400-1000-80-B35-TW2750-SO-SO-XX-W-UNIV-DP-1-CT9	130 VA	CABLE	
AZE	10' DIRECT/INDIRECT LINEAR LED	AXIS	TB3-400-1000-80-B35-TW2750-SO-SO-XX-W-UNIV-DP-1-CT9	130 VA	CABLE	PROVIDE WITH REQUIRED UL 924 RELAY
A3	6' DIRECT/INDIRECT LINEAR LED	AXIS	TB3-400-1000-80-B35-TW2750-SO-SO-XX-W-UNIV-DP-1-CT9	82 VA	CABLE	
AE	8' DIRECT/INDIRECT LINEAR LED	AXIS	TB3-400-1000-80-B35-TW2750-SO-SO-XX-W-UNIV-DP-1-CT9	104 VA	CABLE	PROVIDE WITH REQUIRED UL 924 RELAY
C	30" CIRCULAR PENDANT	AXIS	SKPE-10003-SL-6040-CIR-AL-1000-80-35-SO-W-UNIV-DP-CA	135 VA	CABLE	
C1	14" LED PENDANT	LINCOLN	FD440814AGGG0	60 VA	CABLE	
C2	LED GLOBE PENDANT	PALLONE	A30112XXS154-G1-MEDS-LVGV1-1250-XXX-630C-XXFT-CWH	15 VA	CABLE	UTILIZE SMALL GLOBE IN ALL LOCATIONS EXCEPT FIREPLACE LOUNGE WHICH WILL HAVE (1) SMALL, (1) MEDIUM, (1) LARGE
CE	30" CIRCULAR PENDANT	AXIS	SKPE-10003-SL-6040-CIR-AL-1000-80-35-SO-W-UNIV-DP-CA	23 VA	CABLE	PROVIDE WITH REQUIRED UL 924 RELAY
D	6" LED DOWNLIGHT	PRESCOLITE	LTR-6RD-H-SL15L-DM1-LTR-6RD-SL-35K-8-WT-B24	19 VA	RECESSED	
D2	DECORATIVE LED SURFACE MOUNT DOWNLIGHT	JESCO	CM403RAA-M-3090-BN	19 VA	SURFACE	
D2E	DECORATIVE LED SURFACE MOUNT DOWNLIGHT	JESCO	CM403RAA-M-3090-BN	19 VA	SURFACE	PROVIDE WITH REQUIRED UL 924 RELAY
DE	6" LED DOWN LIGHT	PRESCOLITE	LTR-6RD-H-SL15L-DM1-LTR-6RD-SL-35K-8-WT-B24	19 VA	RECESSED	PROVIDE WITH REQUIRED UL 924 RELAY
E	LED EXIT LIGHT	COOPER	RXD-N-8-R-1	10 VA	SURFACE/WALL	PROVIDE WITH REQUIRED UL 924 RELAY
F	LED 4 FOOT LENSED SUSPENDED STRIP LIGHT	METALUX LITHONIA	4SNX-48SL-LN-L835-CD1-U	25 VA	CHAIN	
FE	LED 4 FOOT LENSED SUSPENDED STRIP LIGHT	METALUX LITHONIA	4SNX-48SL-LN-L835-CD1-EL7W-U	25 VA	CHAIN	PROVIDE WITH REQUIRED UL 924 RELAY
G	OWNER PROVIDED			0 VA		PROVIDE NEW LED LAMPS
H	LED COVE LIGHTING	AXIS	COH-H-H-CL-750-80-35-W-UNIV-DP-1	52 VA	CABLE	
J	CURVED LED COVE LIGHTING	LUMENWERX	CURV4PERLPAT-D-HLO-SW-80CRI-750LMP-35K-20-120-D1-1C-DMF-W	30 VA	RECESSED	
K	DECORATIVE LED CHANDELIER	LIGHTLOGY	ALO1104947	135 VA	STEM	
T	LED TRACK FIXTURE	JUNO	R608L-35K-80CRI-NFL-WH TRACK8FTU-XXXWH	<varies>	SURFACE	PROVIDE ALL NECESSARY COMPONENTS FOR A COMPLETE INSTALLATION
W	LED WALL MOUNTED DECORATIVE BATHROOM FIXTURE	OXYGEN	3-690-124-3500K-120V-124	12 VA	WALL	
W1	LED WALL MOUNTED PICTURE LIGHT	VISUAL COMFORT	700PLUF-30-B-LED930	21 VA	WALL	
W2E	LED WALL MOUNTED EXTERIOR WITH PHOTOCELL	WILLIAMS	VWMH-L17-830-T3-DBZ-PC	21 VA	WALL	PROVIDE WITH REQUIRED UL 924 RELAY

MOTOR & EQUIPMENT SCHEDULE

EQUIP. TYPE	EQUIP. ID	EQUIPMENT DESCRIPTION	LOCATION	VOLTAGE	PHASE	HP	FLA	MCA	VA	CONDUIT & WIRE SIZE	STARTER BY	STARTER TYPE	DISCONNECT BY	DISCONNECT TYPE	PANEL	CIRCUIT NUMBER	NOTES
ACC	1	AIR COOLED CONDENSING UNIT	ROOF	208 V	3P	-	-	98	28200 VA	3#3, 1#6G, 1-1/4" C	MFR	-	MFR	NF	MDP-1	1	
ACC	2	AIR COOLED CONDENSING UNIT	ROOF	208 V	3P	-	-	72	20700 VA	3#4, 1#6G, 1-1/4" C	MFR	-	MFR	NF	MDP-1	2	
AHU	1	AIR HANDLING UNIT	THIRD FLOOR	208 V	3P	-	37.4	46.8	13500 VA	3#6, 1#10G, 1" C	MFR	VFD	MFR	FDC	LP-3	34,36,38	1
AHU	2	AIR HANDLING UNIT	THIRD FLOOR	208 V	3P	-	23.1	28.9	8300 VA	3#6, 1#10G, 3/4" C	MFR	VFD	MFR	FDC	LP-3	35,37,39	1
B	3	HOT WATER BOILER	BASEMENT	120 V	1P	-	12	15	1440 VA	2#12, 1#12G, 3/4" C	MFR	-	MFR	NF	MDP-1	6	
CUH	1	CABINET UNIT HEATER	FIRST FLOOR	120 V	1P	1/10	3	3.8	360 VA	2#12, 1#12G, 3/4" C	MFR	ECM	MFR	NF	LP-1	14	
CUH	2	CABINET UNIT HEATER	FIRST FLOOR	120 V	1P	1/10	3	3.8	360 VA	2#12, 1#12G, 3/4" C	MFR	ECM	MFR	NF	LP-1	3	
CUH	3	CABINET UNIT HEATER	FIRST FLOOR	120 V	1P	1/10	3	3.8	360 VA	2#12, 1#12G, 3/4" C	MFR	ECM	MFR	NF	LP-1	3	
EF	1	EXHAUST FAN	ROOF	208 V	3P	5	16.7	20.9	6000 VA	3#10, 1#12G, 3/4" C	MFR	ECM	EC	NF	LP-3	25,27,29	
EF	2	EXHAUST FAN	ROOF	120 V	1P	1/2	9.8	12.2	1200 VA	2#12, 1#12G, 3/4" C	MFR	ECM	EC	MSS	LP-3	26	
EF	3	EXHAUST FAN	ROOF	208 V	3P	3	10.6	13.2	3800 VA	3#12, 1#12G, 3/4" C	MFR	ECM	EC	NF	LP-3	28,30,32	
EF	4	EXHAUST FAN	ROOF	208 V	1P	1	8.8	11	1800 VA	2#12, 1#12G, 3/4" C	MFR	ECM	EC	MSS	LP-3	31,33	
HWP	1	PUMP	BASEMENT	208 V	3P	3	10.6	13.2	3800 VA	3#12, 1#12G, 3/4" C	MIC	VFD	EC	NF	MDP-1	3	
HWP	2	PUMP	BASEMENT	208 V	3P	3	10.6	13.2	3800 VA	3#12, 1#12G, 3/4" C	MIC	VFD	EC	NF	MDP-1	4	
P	3	PUMP	BASEMENT	208 V	1P	1/2	5.4	6.8	1100 VA	2#12, 1#12G, 3/4" C	MFR	ECM	EC	MSS	MDP-1	5	
UH	1	UNIT HEATER	THIRD FLOOR	120 V	1P	-	-	-	16 VA	2#12, 1#12G, 3/4" C	-	-	EC	MSS	LP-3	24	
UH	2	UNIT HEATER	THIRD FLOOR	120 V	1P	-	-	-	16 VA	2#12, 1#12G, 3/4" C	-	-	EC	MSS	LP-3	24	

NOTES:
1. PROVIDE CONNECTION TO DUCT SMOKE DETECTOR. PROVIDE CONNECTION TO FACP AS REQUIRED.

INVERTER PANEL: LIGHTING INVERTER

LOCATION: IT ROOM B13
SUPPLY FROM:
MOUNTING: SURFACE
TOP/BOTTOM FEED:

VOLTS: 120 V
PHASES: Single Phase
WIRES:

INTERRUPTING RATING:
MAINS TYPE: MLO

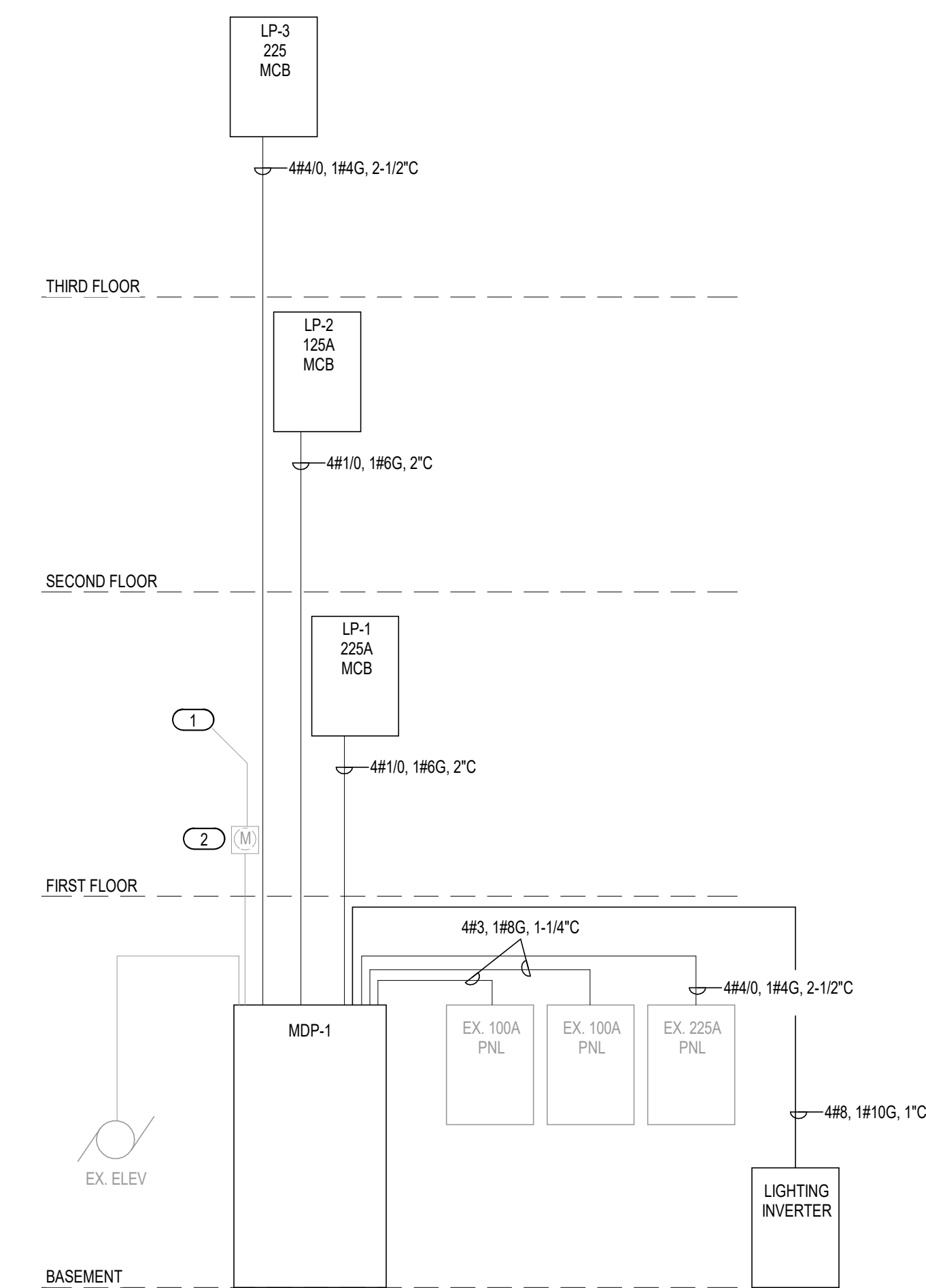
CKT	BKR TYPE	CIRCUIT DESCRIPTION	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT DESCRIPTION	BKR TYPE	CKT
1		BASEMENT & 1ST FLOOR EMERGENCY LIGHTING	20 A	1	0.3	0.0			1	20 A		2
3		SECOND FLOOR EMERGENCY LIGHTING	20 A	1		0.2	0.0		1	20 A		4
5		THIRD FLOOR EMERGENCY LIGHTING	20 A	1			0.5	0.0	1	20 A		6
7		1ST & 2ND FLOOR EMERGENCY CORRIDOR LIGHTING	20 A	1	0.3	0.0			1	20 A		8
9		SPARE	20 A	1		0.0	0.0		1	20 A		10
TOTAL LOAD:			0.7 kVA		0.3 kVA		0.5 kVA					
TOTAL AMPS:			6 A		2 A		5 A					

CIRCUIT BREAKER TYPES AND ACCESSORIES LEGEND:

N = NORMALLY ON F = NORMALLY OFF S = SWITCHED P = PADLOCKABLE HASP (FIXED)

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
Lighting	1441 VA	125.00%	1801 VA	
				TOTAL CONN. LOAD: 1441 VA
				TOTAL EST. DEMAND: 1801 VA
				TOTAL CONN. CURRENT: 4 A
				TOTAL EST. DEMAND CURRENT: 5 A
				NON-COINCIDENT HEATING/COOLING: 0 A
				TOTAL EST. DEMAND-NC: 5 A

NOTES:
1. INVERTER PANEL SCHEDULE SHOWN FOR COORDINATION PURPOSES ONLY. CIRCUIT BREAKERS INDICATED SHALL BE FURNISH AND INSTALLED INTEGRAL TO THE EMERGENCY LIGHTING INVERTER ENCLOSURE BY UNIT MANUFACTURER.



KEYED NOTES	
①	EXISTING OVERHEAD UTILITY TO BE MAINTAINED. DISCONNECT FROM EXISTING DISCONNECT AND RELAY BY NECESSARY MEANS TO NEW SERVICE RATED DISTRIBUTION BOARD, FIELD VERIFY EXACT CONDITIONS.
②	EXISTING UTILITY METER TO REMAIN. RECONNECT BY NECESSARY MEANS TO NEW SERVICE. FIELD VERIFY EXACT CONDITIONS.

1 ONE-LINE DIAGRAM

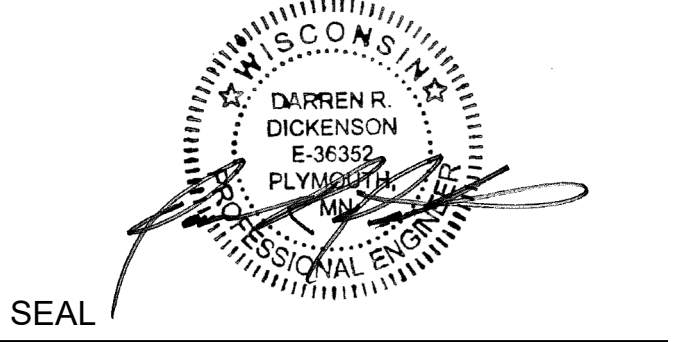
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ELECTRICAL SCHEDULES

DISTRIBUTION PANEL: MDP-1									
LOCATION: ELEC B03			VOLTS: 120/208 Wye			A.I.C. RATING: 42,000 A			
SUPPLY FROM:			PHASES: 3			MAINS TYPE: MCB			
MOUNTING: SURFACE			WIRES: 4			MCB RATING: 600 A			
TOP/BOTTOM FEED:			SUB-FEED LUGS: No			BUS AMPACITY: 600 A			
ENCLOSURE RATING: Type 1			FEED-THRU LUGS: No			NEUTRAL RATING:			
CKT	BKR TYPE	CIRCUIT DESCRIPTION	# OF POLES	FRAME SIZE	TRIP RATING	LOAD	REMARKS		
1		ACC-1	3	125 A	100 A	28200 VA			
2		ACC-2	3	125 A	80 A	20700 VA			
3		HWP-1	3	125 A	20 A	3800 VA			
4		HWP-2	3	125 A	20 A	3800 VA			
5		P-3	2	125 A	20 A	1100 VA			
6		B-1	1	125 A	20 A	1440 VA			
7		LP-1	3	200 A	100 A	23518 VA			
8		LP-3	3	200 A	200 A	66529 VA			
9		LP-2	3	200 A	100 A	14349 VA			
10	S	EXISTING ELEVATOR	3	200 A	125 A	15558 VA			
11		EXISTING PANEL A1	3	125 A	100 A	0 VA			
12		EXISTING PANEL A	3	125 A	100 A	0 VA			
13		OLD EM PANEL	3	125 A	60 A	0 VA			
14		EMERGENCY LIGHTING INVERTER	1	125 A	30 A	2200 VA			
15									
16									
TOTAL CONN. LOAD:						180221 VA			
TOTAL AMPS:						500 A			

CIRCUIT BREAKER TYPE AND ACCESSORIES LEGEND:
G = GFCI
P = PADLOCKABLE HASP
S = SHUNT TRIP
K = KEYED INTER LOCK
T = TRIP UNIT SEAL COVER
A = ALARM CONTACTS
AUX = AUXILIARY CONTACTS
X = EXISTING TO REMAIN CIRCUIT BREAKER

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
Lighting	15617 VA	125.00%	19521 VA	
Miscellaneous	2880 VA	100.00%	2880 VA	TOTAL CONN. LOAD: 180221 VA
Motor	117990 VA	105.98%	125040 VA	TOTAL EST. DEMAND: 174796 VA
Other	0 VA	0.00%	0 VA	TOTAL CONN. CURRENT: 500 A
Receptacle	44880 VA	61.14%	27440 VA	TOTAL EST. DEMAND CURRENT: 485 A
Spare	2200 VA	100.00%	2200 VA	NON-COINCIDENT...: 0 A
				TOTAL EST. DEMAND-NC: 485 A

NOTES:
1. PANEL TO BE SERVICE RATED.

PANELBOARD: LP-2												
LOCATION: HALL 213			VOLTS: 120/208 Wye			INTERRUPTING RATING: 22,000 A						
SUPPLY FROM: MDP-1			PHASES: 3			MAINS TYPE: MCB						
MOUNTING: SURFACE			WIRES: 4			MCB RATING: 125 A						
TOP/BOTTOM FEED:			SUB-FEED LUGS: No			BUS AMPACITY: 125 A						
ENCLOSURE RATING: Type 1			FEED-THRU LUGS: No			NEUTRAL RATING:						
CKT	BKR TYPE	CIRCUIT DESCRIPTION	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT DESCRIPTION	BKR TYPE	CKT
1	G	EVC	20 A	1	0.2	0.4			1	20 A		2
3		RECEPTACLE	20 A	1		1.3	1.6		1	20 A		4
5		RECEPTACLE	20 A	1			1.4	1.3	1	20 A		6
7		RECEPTACLE	20 A	1	0.5	0.9			1	20 A		8
9		RECEPTACLE	20 A	1		0.9	0.6		1	20 A		10
11		LIGHTING	20 A	1			1.2	0.7	1	20 A		12
13		LIGHTING	20 A	1	1.3	1.0			1	20 A		14
15		LIGHTING	20 A	1		0.3	0.0		1	20 A		16
17		LIGHTING	20 A	1			1.0	0.0	1	20 A		18
19		POWER BLINDS	20 A	1	0.0	0.0			1	20 A		20
21		SPARE	20 A	1		0.0	0.0		1	20 A		22
23		SPARE	20 A	1			0.0	0.0	1	20 A		24
25		SPARE	20 A	1	0.0				1	20 A		26
27												28
29												30
31												32
33												34
35												36
37												38
39												40
41												42
TOTAL LOAD:					4.2 kVA	4.6 kVA	5.5 kVA					
TOTAL AMPS:					35 A	39 A	47 A					

CIRCUIT BREAKER TYPES AND ACCESSORIES LEGEND:
G = GFCI
P = PADLOCKABLE HASP
A = AFCI
GE = GFPE
H = HANDLE LOCK
S = SHUNT TRIP
X = EXISTING TO REMAIN CIRCUIT BREAKER

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
Lighting	6095 VA	125.00%	7618 VA	
Miscellaneous	0 VA	0.00%	0 VA	TOTAL CONN. LOAD: 14349 VA
Other	0 VA	0.00%	0 VA	TOTAL EST. DEMAND: 15845 VA
Receptacle	8460 VA	100.00%	8460 VA	TOTAL CONN. CURRENT: 40 A
				TOTAL EST. DEMAND CURRENT: 44 A
				NON-COINCIDENT HEATING/COOLING: 0 A
				TOTAL EST. DEMAND-NC: 44 A

Notes:

PANELBOARD: LP-1												
LOCATION: STORAGE 103			VOLTS: 120/208 Wye			INTERRUPTING RATING: 10,000 A						
SUPPLY FROM: MDP-1			PHASES: 3			MAINS TYPE: MCB						
MOUNTING: SURFACE			WIRES: 4			MCB RATING: 150 A						
TOP/BOTTOM FEED:			SUB-FEED LUGS: No			BUS AMPACITY: 225 A						
ENCLOSURE RATING: Type 1			FEED-THRU LUGS: No			NEUTRAL RATING:						
CKT	BKR TYPE	CIRCUIT DESCRIPTION	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT DESCRIPTION	BKR TYPE	CKT
1		RECEPTACLE	20 A	1	0.7	0.2			1	20 A		2
3		CUH-2, CUH-3	20 A	1		0.7	1.4		1	20 A		4
5		RECEPTACLE	20 A	1			1.1	0.0	1	20 A		6
7		COPIER RECEPTACLE	20 A	1	0.4	3.8			1	20 A		8
9		RECEPTACLE	20 A	1		0.9	0.7		1	20 A		10
11		RECEPTACLE	20 A	1			0.9	1.3	1	20 A		12
13		HANDI-CAP DOORS	20 A	1	3.8	0.4			1	20 A		14
15		RECEPTACLE	20 A	1		0.5	0.7		1	20 A		16
17		LIGHTING	20 A	1			0.9	1.1	1	20 A		18
19		LIGHTING	20 A	1	1.2	1.5			1	20 A		20
21		RECEPTACLE	20 A	1		0.4	0.4		1	20 A		22
23		POWER BLINDS	20 A	1			0.0	0.0	1	20 A		24
25		RECEPTACLE	20 A	1	0.7	0.4			1	20 A		26
27		SPARE	20 A	1		0.0	0.0		1	20 A		28
29		SPARE	20 A	1			0.0	0.0	1	20 A		30
31												32
33												34
35												36
37												38
39												40
41												42
TOTAL LOAD:					12.9 kVA	5.7 kVA	5.1 kVA					
TOTAL AMPS:					108 A	48 A	43 A					

CIRCUIT BREAKER TYPES AND ACCESSORIES LEGEND:
G = GFCI
P = PADLOCKABLE HASP
A = AFCI
GE = GFPE
H = HANDLE LOCK
S = SHUNT TRIP
X = EXISTING TO REMAIN CIRCUIT BREAKER

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
Lighting	5057 VA	125.00%	6321 VA	
Miscellaneous	0 VA	0.00%	0 VA	TOTAL CONN. LOAD: 23518 VA
Motor	8760 VA	105.48%	9240 VA	TOTAL EST. DEMAND: 25113 VA
Receptacle	10260 VA	98.73%	10130 VA	TOTAL CONN. CURRENT: 65 A
				TOTAL EST. DEMAND CURRENT: 70 A
				NON-COINCIDENT HEATING/COOLING: 0 A
				TOTAL EST. DEMAND-NC: 70 A

Notes:

PANELBOARD: LP-3												
LOCATION: MECHANICAL 310			VOLTS: 120/208 Wye			INTERRUPTING RATING: 22,000 A						
SUPPLY FROM: MDP-1			PHASES: 3			MAINS TYPE: MCB						
MOUNTING: SURFACE			WIRES: 4			MCB RATING: 225 A						
TOP/BOTTOM FEED:			SUB-FEED LUGS: No			BUS AMPACITY: 225 A						
ENCLOSURE RATING: Type 1			FEED-THRU LUGS: No			NEUTRAL RATING:						
CKT	BKR TYPE	CIRCUIT DESCRIPTION	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT DESCRIPTION	BKR TYPE	CKT
1	G	RECEPTACLE	20 A	1	0.5	2.0			1	20 A		2
3		RECEPTACLE	20 A	1		1.6	1.6		1	20 A		4
5		RECEPTACLE	20 A	1			1.4	1.8	1	20 A		6
7		RECEPTACLE	20 A	1	1.8	0.9			1	20 A		8
9	G	DISHWASHER	20 A	1		0.0	3.1		2	50 A		10
11		RECEPTACLE	20 A	1			0.4	3.1	--	--		12
13		RECEPTACLE	20 A	1	0.4	0.4			1	20 A		14
15		RECEPTACLE	20 A	1		0.2	0.2		1	20 A		16
17		COOK TOP	50 A	2			3.1	1.3	1	20 A		18
19	--		--	--	3.1	1.2			3	20 A		20
21	--		--	--		0.8	1.2		1	20 A		22
23		MISCELLANEOUS	20 A	1			0.7	0.0	1	20 A		24
25		EF-1	30 A	3	2.0	1.2			1	20 A		26
27	--		--	--		2.0	1.3		3	20 A		28
29	--		--	--			2.0	1.3	--	--		30
31	--		--	--					--	--		32
33	--		--	--	2.0	0.9	1.3		3	50 A		34
35	--	AHU-2	30 A	3			2.8	4.5	--	--		36
37	--		--	--	2.8	4.5			--	--		38
39	--		--	--			2.8	0.2	1	20 A		40
41	G	RECEPTACLE WASHER	20 A	1			0.2	0.9	1	20 A		42
43		RECEPTACLE	20 A	1	0.4	0.0			2	30 A		44
45		MISCELLANEOUS	20 A	1		1.1	0.0		--	--		46
47		SPARE	20 A	1			0.0	0.0	1	20 A		48
49		SPARE	20 A	1	0.0				--	--		50
51		SPARE	20 A	1					--	--		52
53												54
TOTAL LOAD:					22.7 kVA	20.9 kVA	22.9 kVA					
TOTAL AMPS:					192 A	174 A	193 A					

CIRCUIT BREAKER TYPES AND ACCESSORIES LEGEND:
G = GFCI
P = PADLOCKABLE HASP
A = AFCI
GE = GFPE
H = HANDLE LOCK
S = SHUNT TRIP
X = EXISTING TO REMAIN CIRCUIT BREAKER

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
Lighting	4479 VA	125.00%	5598 VA	
Miscellaneous	2880 VA	100.00%	2880 VA	TOTAL CONN. LOAD: 66529 VA
Motor	34632 VA	109.75%	38007 VA	TOTAL EST. DEMAND: 63259 VA
Receptacle	26160 VA	69.11%	18080 VA	TOTAL CONN. CURRENT: 185 A
				TOTAL EST. DEMAND CURRENT: 176 A
				NON-COINCIDENT HEATING/COOLING: 0 A
				TOTAL EST. DEMAND-NC: 176 A

Notes:



MILWAUKEE | MADISON | TUCSON | CHICAGO



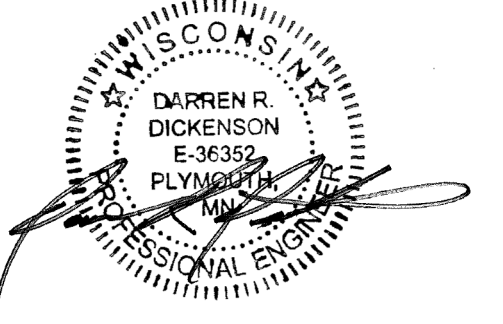
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REVISION FOR: DATE
NO. DESCRIPTION

DRAWN BY DFS

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CONSTRUCTION DRAWINGS 11/26/2024

REVISION FOR: NO. DESCRIPTION DATE

DRAWN BY NCF

CHECKED BY TCC

PLUMBING COVER SHEET

P001

GENERAL PLUMBING NOTES	
1.	THESE DRAWINGS SHALL NOT BE SCALED. SEE ARCHITECTURAL/CIVIL DRAWINGS FOR DIMENSIONAL INFORMATION. THIS ENGINEER WILL NOT BE LIABLE FOR MISCALCULATED PRODUCT TAKE-OFFS DUE TO SCALING OF DRAWINGS.
2.	VENT PIPING SHOWN ON FLOOR PLANS IS DIAGRAMMATIC EXCEPT FOR VENT THRU ROOF (VTR) LOCATIONS.
3.	VALVES AND FITTINGS SHALL BE OF SAME SIZE AS THE LINE ON WHICH THEY ARE LOCATED, UNLESS OTHERWISE INDICATED ON DRAWINGS.
4.	CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES.
5.	CONTRACTOR SHALL FIELD VERIFY ALL GIVEN MEASUREMENTS PRIOR TO LAYING AND CONNECTING ALL SANITARY AND WASTE PIPING AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.
6.	CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING FIRE RATING AND WEATHERPROOFING INTEGRITY OF ALL PIPING AND PENETRATIONS.
7.	ALL WATER SUPPLY AND SANITARY LINES SHALL BE RUN AS CLOSE TO PLANS AS POSSIBLE WITH NO CHANGES IN SIZING.
8.	CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY SUPPORTING DEVICES FOR ALL FIXTURES INCLUDED IN CONTRACT OR HEREIN SPECIFIED OR OTHERWISE.
9.	CONTRACTOR SHALL GIVE FIVE DAY NOTICE IN WRITING TO, AND RECEIVE WRITTEN APPROVAL, FROM THE BUILDING ADMINISTRATOR (OR HIS/HER REPRESENTATIVE) PRIOR TO SHUT DOWN OF ANY SYSTEM OR DISRUPTION OF SERVICE TO ANY AREA. CONTRACTOR SHALL ALSO COORDINATE THE EXACT LOCATION AND TIMING OF SYSTEMS SHUTDOWN POINTS WITH THE OWNER REPRESENTATIVE (I.E. ENGINEERING DEPARTMENT) CONTRACTOR SHALL MAKE EVERY EFFORT POSSIBLE TO MINIMIZE THE DURATION OF ANY DOWNTIME OR DISRUPTION PERIOD.
10.	ROUTE ALL PIPING CONCEALED ABOVE CEILINGS, WITHIN WALLS, OR IN CHASES. PIPING EXPOSED SHALL BE SLOPED AND PAINTED TO MATCH ARCHITECTURAL FINISHES. PIPING IN MECHANICAL ROOMS MAY BE EXPOSED.
11.	PROVIDE ACCESS PANELS TO ALL VALVES WITHIN CHASES OR ABOVE INACCESSIBLE CEILINGS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
12.	CONTRACTOR SHALL ROUGH-IN ALL WASTES AND SUPPLIES TO SPECIAL EQUIPMENT ACCORDING TO MANUFACTURER'S SHOP DRAWINGS AND MAKE FINAL CONNECTIONS. ALL SUPPLIES SHALL BE VALVED. INSTALL VACUUM BREAKERS WHERE REQUIRED BY CODE.
13.	COORDINATE EXACT LOCATION OF FLOOR DRAINS FOR HVAC EQUIPMENT WITH MECHANICAL CONTRACTOR.
14.	DO NOT PENETRATE WALL FOOTINGS WITH PIPING. COORDINATE WITH STRUCTURAL CONTRACTOR TO DROP FOOTINGS AS REQUIRED TO CLEAR PLUMBING SERVICES WHERE ABSOLUTELY NECESSARY. ALL PIPING PENETRATING A BEARING WALL OR FOOTING MUST BE SLEEVED AND LOCATION APPROVED BY STRUCTURAL ENGINEER. PROVIDE LINK-SEALS IN ALL PENETRATIONS OF EXTERIOR WALLS.
15.	ALL PIPING SHALL BE INSTALLED AS HIGH AS POSSIBLE IN PROVIDED CEILING SPACE.
16.	COORDINATE PIPING INSTALLATION AS TO NOT INTERFERE WITH HVAC EQUIPMENT ACCESS.
17.	COORDINATE EXTENTS OF ALTERNATE BIDS AND FUTURE PHASES WITH ARCHITECT.
18.	PROVIDE SLEEVES FOR ALL FOOTING PENETRATIONS. COORDINATE WITH STRUCTURAL.

GI-1 SIZING		
SINKS LxWxH (28"x16"x10.125") / 231 x .75 = 14.7 GPM	14.7 GPM	
RESIDENTIAL DISHWASHER - GALLONS PER MINUTE = 4 GPM	4.0 GPM	
TOTAL =	18.7 GPM	
*UNIT SELECTED-SCHIER GB1 (25 GPM)		

GREASE INTERCEPTOR SCHEDULE												
GI #	LOCATION	FLOW RATE (GPM)	LIQUID CAP. (GAL)	GREASE CAP. (LBS)	CONNECTION	DIMENSIONS (INCHES)			DRY WEIGHT (LBS)	WET WEIGHT (LBS)	MANUFACTURER & MODEL NO.	NOTES
GI-1	STORAGE-316	25 GPM	10 GAL	64.9 LBS	4" IN/OUT	27"	23"	12"	39 LBS	123 LBS	SCHIER GB1	ALL
NOTES: 1. ON-FLOOR INSTALLATION PER MANUFACTURER AND IN PLUMBING CODE REQUIREMENTS. 2. UNIT COMES WITH 2" AND 3" FLAN END FITTINGS, FC SHALL INSTALL.												

ELECTRIC WATER HEATER SCHEDULE								
MARK	LOCATION	TEMPERATURE RISE	RECOVERY GAL/HR	NO. OF ELEMENTS	ELEMENT WATTS	VOLTAGE	PHASE	MANUFACTURER & MODEL NO.
WH-1	MECH RM-807x	80°F	23	2	4500	208	1	A.O. SMITH #DEN-66
NOTES: 1. SET TEMP AT 115°F AND SUPPLY THERMOMETER ON HOT SIDE. 2. PROVIDE AMTROL ST-5 THERMAL EXPANSION TANK ON COLD WATER LINE. 3. COORDINATE WIRING WITH EC. 4. PROVIDE 4" CONCRETE HOUSEKEEPING PAD. 5. INSTALL WATER HEATER PER MANUFACTURER'S RECOMMENDATIONS.								

CIRCULATION PUMP SCHEDULE									
MARK	MAXIMUM WORKING PRESSURE	MAXIMUM OPERATING TEMP (°F)	MOTOR				FLANGE SIZE (INCHES)	MATERIAL	MANUFACTURER & MODEL NO.
			ELECTRICAL CHAR	F.L. AMPS	HP	RPM			
CP-1	150 PSI	225	115/60/H	80	120	2940	3/4"	BRONZE	B & G NBF-22
NOTES: 1. COORDINATE WITH EC. 2. PROVIDE WATTS HPF-S 3/4" FLANGE SET. 3. PROVIDE PROVIDE B & G #TC-1 TIMER KIT WITH AQUASTAT. SET TIMER PER OWNER'S REQUIREMENTS.									

PLUMBING RENOVATION NOTES	
1.	WHERE EXISTING PIPING IS DESIGNATED TO BE REMOVED AND CAPPED, ALL PIPING SERVING THE DESIGNATED FIXTURE SHALL BE REMOVED FROM WITHIN WALLS TO THE POINT DESIGNATED ON THE DRAWINGS OR TO A CLEARLY VISIBLE POINT BELOW THE FLOOR IN THE CRAWL SPACE OR ABOVE THE CEILING. PIPING SHALL BE CAPPED BY APPROVED CAPPING METHODS UTILIZING PIPE CAPS INTENDED FOR SUCH USE. ALL CAPS SHALL BE AIRTIGHT AND WATERTIGHT.
2.	WHERE EXISTING SURFACES ARE DISRUPTED DUE TO THE REMOVAL OF EXISTING EQUIPMENT OR PIPING, THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF DISRUPTED SURFACES TO MATCH EXISTING ADJACENT SURFACES.
3.	PLUMBING FIXTURES DESIGNATED TO BE REUSED SHALL BE CLEANED AND MAINTENANCE SERVICED TO OPERATE AS INTENDED.
4.	EXISTING CONDITIONS AS SHOWN ON THE DRAWINGS ARE TAKEN FROM ORIGINAL AND AS-BUILT DRAWINGS OF THE BUILDING AND IN PART ARE UNVERIFIED. FIELD CONDITIONS SHALL GOVERN. ALL EXISTING CONDITIONS MUST BE VERIFIED PRIOR TO INITIATION OF WORK.
5.	ALL EXISTING PIPING, NOT REMAINING IN SERVICE AFTER NEW CONSTRUCTION, SHALL PROPERLY BE REMOVED.
6.	PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL EXISTING PLUMBING FIXTURES AND TRIM, PIPING, VALVES, ETC. IN AREAS TO BE DEMOLISHED.
7.	ALL EXISTING PLUMBING FIXTURES TO BE REMOVED AND ARE NOT TO BE REUSED SHALL REMAIN THE PROPERTY OF THE OWNER. DISCARD UNWANTED FIXTURES AT AT THE DISCRETION OF THE OWNER.
8.	PIPING WHICH IS TO REMAIN IN SERVICE SHALL NOT BE DISTURBED. EXISTING PIPING BROKEN DURING CONSTRUCTION SHALL BE REPLACED WITH NEW PIPING OF THE SAME SIZE AND MATERIAL.
9.	ALL EXISTING SANITARY, DOMESTIC WATER, AND RAINWATER PIPING THAT IS LOCATED IN EXISTING WALLS TO BE DEMOLISHED AND REMAINING IN SERVICE AFTER CONSTRUCTION SHALL BE RELOCATED TO NEW WALLS, CHASES, ETC.
10.	COORDINATE WITH GENERAL CONTRACTOR TO PATCH ALL EXISTING WALLS, FLOORS, CEILINGS, ETC., AS REQUIRED BY NEW WORK.
11.	REMOVE ALL UNUSED TEES TO ELIMINATE DEAD ENDS IN PIPING.

PLUMBING PIPING LEGEND	
	CIRCUIT SETTER
	BALL VALVE OR SHUT-OFF VALVE
	SPRING CHECK VALVE
	PRESSURE REDUCING VALVE (PRV)
	RPZ VALVE OR BACKFLOW PREVENTER
	HAMMER ARRESTOR (PISTON TYPE)
	HAMMER ARRESTOR (BELLOWS TYPE)
	PIPE REDUCER FITTING
	END CAP
	PIPE CONNECTION
	FLOW DIRECTION ARROW
	PIPING ELBOW DOWN
	PIPING ELBOW UP OR PIPING RISER UP & DOWN
	PIPING TEE DOWN
	PIPING TEE UP OR PIPING RISER UP & DOWN
	HOSE BIB OR WALL HYDRANT
	FLOW METER
	PRESSURE REGULATOR
	CIRCULATING PUMP (HOT WATER RETURN)
	NEW TO EXISTING PIPE CONNECTION
	NEW TO EXISTING POINT OF CONNECTION SYMBOL
	PIPING LINEWEIGHT, EXISTING
	PIPING LINEWEIGHT, NEW/DEMOLITION

PLUMBING FIXTURE SCHEDULE									
MARK	FIXTURE	MANUFACTURER	MODEL	MOUNT	ROUGH-IN SCHEDULE				FITTINGS AND REMARKS
					COLD	HOT	WASTE	VENT	
L-1	WALL MOUNT LAVATORY W/ METERING FAUCET	KOHLER	K-2005	WALL	1/2"	1/2"	1 1/2"	1/2"	PROVIDE SYMONS SLC-6000 METERING FAUCET, MCGUIRE 8902 P-TRAP, MCGUIRE 155A STRAINER, MCGUIRE H2165CCLK STOPS, LAV CARRIER AND TRUEBRO LAV GUARD. PROVIDE CIRCULATED HOT WATER TO FIXTURE PER WI PLUMBING CODE.
WC-1	ADA WATER CLOSET TANK-TYPE	AMERICAN STANDARD	2467.016	FLOOR	1/2"	-	4"	-	PROVIDE BEMIS 1655SCT SEAT COVER, AND MCGUIRE H2165CCLK STOP. ADA INSTALLATION. PROVIDE HANDLE ON WIDE SIDE OF TOILET.
S-1	SINGLE COMPARTMENT KITCHEN SINK W/ MANUAL FAUCET	ELKAY	DLRS332210-3	COUNTER	1/2"	1/2"	2"	1/2"	PROVIDE MOEN 7864 SERIES FAUCET, MCGUIRE 8912 P-TRAP, MCGUIRE 151A STRAINER, LAWLER 570 MIXING VALVE SET TO 110' F W/ WATTS 6 CHECK STOPS, AND MCGUIRE H2165CCLK STOPS. COORDINATE FAUCET AND DRAIN FINISHES WITH OWNER AND ARCHITECT. PROVIDE CIRCULATED HOT WATER TO FIXTURE PER WI PLUMBING CODE.
S-2	SINGLE COMPARTMENT UTILITY SINK W/ MANUAL FAUCET	ADVANCE TABCO	6-41-48D	FLOOR	1/2"	1/2"	2"	1/2"	PROVIDE CHICAGO 1100-L9-317ABCP FAUCET, MCGUIRE 8912 P-TRAP W/ CONTINUING WASTE, MCGUIRE 151A STRAINER AND MCGUIRE H2165CCLK STOPS. PROVIDE CIRCULATED HOT WATER TO FIXTURE PER WI PLUMBING CODE.
MS-1	24x24 MOP SINK	MUSTEE	63M	FLOOR	3/4"	3/4"	3"	-	PROVIDE UNION BRASS 141-QMV FAUCET, MUSTEE 65.700 HOSE & HOSE HOLDER, MUSTEE 65.800 MOP HANGER, MUSTEE 63.403 BUMPER GUARDS, MUSTEE DURAGUARD WALL GUARDS 67.2424, AND 65.311 DRAIN SEAL. PROVIDE WATTS 8AC HOSE CONNECTION VACUUM BREAKER.
EW-1	SINGLE ELECTRIC WATER COOLER W/ BOTTLE FILLER - ADA (RELOCATE)	RELOCATED	RELOCATED	WALL	1/2"	-	1 1/2"	1 1/2"	MAINTAIN AND CLEAN EXISTING ELECTRIC WATER COOLER WITH BOTTLE FILLER, AND INSTALL IN NEW LOCATION. PROVIDE MCGUIRE 8902 P-TRAP AND MCGUIRE H2165CCLK STOP. UNIT HAS BOTTLE FILLING STATION. VERIFY UNIT HEIGHT WITH ARCHITECTURAL DRAWINGS & OWNER.
EW-2	SINGLE ELECTRIC WATER COOLER W/ BOTTLE FILLER - ADA (NEW)	ELKAY	LZS8WSP	WALL	1/2"	-	1 1/2"	1 1/2"	MCGUIRE 8902 P-TRAP AND MCGUIRE H2165CCLK STOP. UNIT COMES WITH BOTTLE FILLING STATION. VERIFY UNIT HEIGHT WITH ARCHITECTURAL DRAWINGS & OWNER.
FD	FLOOR DRAIN	JOSAM	30000-A	FLOOR	-	-	SEE PLAN	-	MOUNT STRAINER FLUSH WITH FINISH FLOOR. PROVIDE FLOOR SAFING.
HA-1	HAMMER ARRESTOR	WATTS	SS-C	PIPE	-	-	-	-	OR EQUAL.
WB-1	LAUNDRY WALL BOX	OATEY	38642	WALL	3/4"	3/4"	2"	1 1/2"	INSTALL WALL BOX FLUSH W/ FINISHED WALL. COORDINATE WITH GC. PC SHALL MAKE ALL FINAL CONNECTIONS.
DW-1	DISHWASHER	BY OTHER	BY OTHER	UNDER COUNTER	-	1/2"	-	-	PROVIDE HAMMER ARRESTOR AND SHUTOFF VALVE PRIOR TO CONNECTION. ROUTE DRAIN TO OPEN SITE UNDER SINK AND TERMINATE VIA AIR GAP. PROVIDE WATTS 8D BACKFLOW PREVENTER ON WATER SUPPLY LINE. PC SHALL MAKE ALL FINAL PER CODE AND MANUFACTURER'S INSTRUCTIONS. COORDINATE WITH GC AND OWNER FOR SUPPLIED DISHWASHER AND MANUFACTURER REQUIREMENTS.

WATER CALCULATIONS WORKSHEET	
1.	26 DEMAND OF BUILDING IN GALLONS PER MINUTE. (44 TOTAL WSFUs)
2.	62 LOW PRESSURE AT THE CURBSTOP OR AT EXTERNAL PRESSURE TANK.
3.	8' DIFFERENCE IN ELEVATION FROM MAIN TO METER.
4.	1.5' SIZE OF WATER METER IN INCHES.
5.	60 DEVELOPED LENGTH FROM CURBSTOP TO METER.
6.	0 FIND PRESSURE LOSS DUE TO FRICTION IN " WATER SERVICE, 0 (PSI/100 FT)
7.	3.5 FIND PRESSURE LOSS DUE TO ELEVATION, MAIN TO METER (OR EXTERNAL PRESSURE TANK TO BUILDING CONTROL VALVE), MULTIPLY THE DIFFERENCE BY .434 PSIF/FT.
8.	1 FIND THE PRESSURE LOSS DUE TO METER.
9.	57.5 SUBTRACT THE LOSS DUE TO FRICTION (STEP 6), LOSS DUE TO ELEVATION (STEP 7), AND LOSS DUE TO METER (STEP 8) FROM THE LOW MAIN PRESSURE (OR LOW PRESSURE AT EXTERNAL PRESSURE TANK). THIS CALCULATION IS THE AVAILABLE PRESSURE AFTER THE WATER METER (OR AT THE BUILDING CONTROL VALVE). THIS ANSWER IS ENTERED IN LINE 8, BELOW.
INFORMATION NEEDED FOR WATER DISTRIBUTION SIZING:	
FORMULA: A = [B - (C + D + E)] x 100 / F	
A.	7 PRESSURE AVAILABLE FOR UNIFORM LOSS (PSI/100' OF PIPE).
B.	57.5 AVAILABLE PRESSURE AFTER WATER METER (SEE ITEM 9, ABOVE).
C.	20 PRESSURE NEEDED AT CONTROLLING FIXTURE.
D.	22 DIFFERENCE IN ELEVATION BETWEEN WATER METER (BUILDING CONTROL VALVE OR INTERNAL PRESSURE TANK) AND CONTROLLING FIXTURE IN FEET 50 x .434 PSIF/FT
E.	0 PRESSURE LOSS DUE TO WATER SOFTENERS, WATER TREATMENT DEVICES, INSTANTANEOUS WATER HEATERS AND BACKFLOW PREVENTORS.
F.	225 DEVELOPED LENGTH FROM WATER METER TO CONTROLLING FIXTURE IN FEET 150' x 1.5.

NG LOAD TABLE				
	INPUT (MBH)	REQ'D PRES	REQUIRED REGULATOR	SYSTEM PRESSURE
B-1 (EXISTING)	530	7"	N/A	7"
B-2 (EXISTING)	530	7"	N/A	7"
B-3	530	7"	N/A	7"
TOTAL ADDED LOAD	1,590 MBHS			
NOTES: 1. PROVIDE NATURAL GAS TO EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. 2. PROVIDE SHUTOFF VALVE, DRIP LEG W/ CAP AND UNION AS REQUIRED.				

PLUMBING ABBREVIATIONS			
110"	110 DEGREE HOT WATER	HW	HOT WATER
140"	140 DEGREE HOT WATER	HWR	HOT WATER RETURN
AG	ABOVE GRADE	KS	KITCHEN SINK
ADD	ADDENDUM	L	LAVATORY
ADDL	ADDITIONAL	MC	MECHANICAL CONTRACTOR
ADJ	ADJUSTABLE	MECH	MECHANICAL
AFF	ABOVE FINISH FLOOR	MIN	MINIMUM
AFG	ABOVE FINISH GRADE	MS	MOP SINK
ALT	ALTERNATE	NG	NATURAL GAS
BG	BELOW GRADE	NTS	NOT TO SCALE
CO	CLEANOUT	NPCW	NON POTABLE COLD WATER
CW	COLD WATER	PC	PLUMBING CONTRACTOR
DN	DOWN	PLBG	PLUMBING
EC	ELECTRICAL CONTRACTOR	PRES	PRESSURE
EQ	EQUAL	QTY	QUANTITY
ES	EQUIPMENT SUPPLIER	REG	REGULATOR
F	FURNACE	S	SINK
FCO	FLOOR CLEANOUT	SAN	SANITARY
FCW	FILTERED COLD WATER	SCH	SCHEDULE
FD	FLOOR DRAIN	SPEC	SPECIFICATIONS
FLR	FLOOR	ST	STORM DRAIN
FP	FIRE PROTECTION	TEMP	TEMPERATURE
FS	FLOOR SINK	TYP	TYPICAL
FT	FOOT (FEET)	V	VENT
GAL	GALLON	VTR	VENT THRU ROOF
GC	GENERAL CONTRACTOR	W	WITH
GI	GREASE INTERCEPTOR	WCO	WALL CLEANOUT
GPM	GALLONS PER MINUTE	WC	WATER CLOSET
GW	GREASE WASTE	WH	WATER HEATER

PLUMBING PIPING LINETYPES	
LINETYPE	DESCRIPTION
	GAS
	SANITARY ABOVE GRADE
	SANITARY BELOW GRADE
	VENT ABOVE GRADE
	VENT BELOW GRADE
	COLD WATER
	COLD WATER BELOW GRADE
	HOT WATER
	RECIRC WATER
	BELOW GRADE STORM
	ABOVE GRADE STORM

PLUMBING SHEET INDEX	
P001	PLUMBING COVER SHEET
PD101	PLUMBING DEMOLITION PLANS - BASEMENT
PD102	PLUMBING DEMOLITION PLANS - FIRST & SECOND FLOOR
PD103	PLUMBING DEMOLITION PLAN - THIRD FLOOR
P101	PLUMBING PLANS - BASEMENT
P102	PLUMBING PLANS - FIRST & SECOND FLOOR
P103	PLUMBING PLAN - THIRD FLOOR
P201	PLUMBING ISOMETRIC - SANITARY
P202	PLUMBING ISOMETRIC - DOMESTIC WATER
P301	PLUMBING DETAILS

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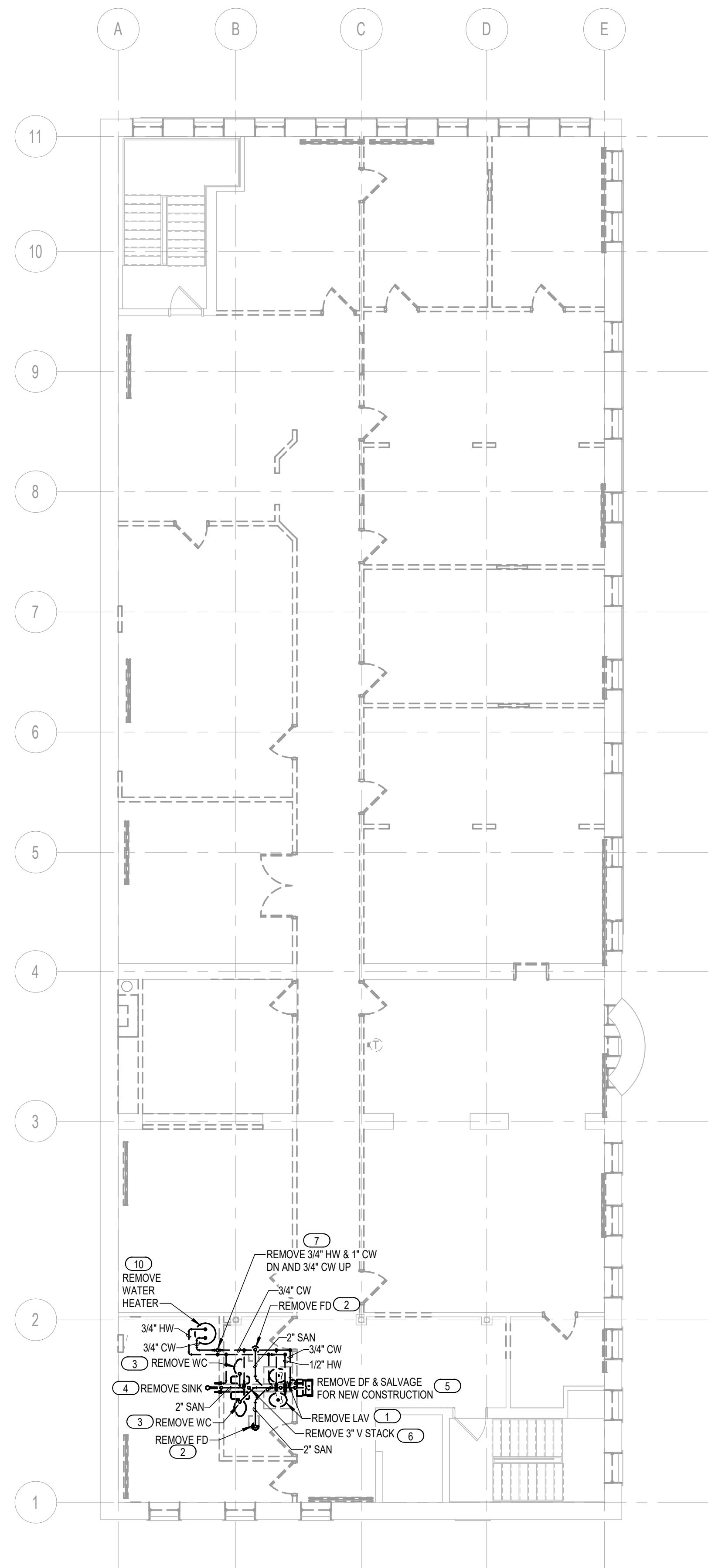
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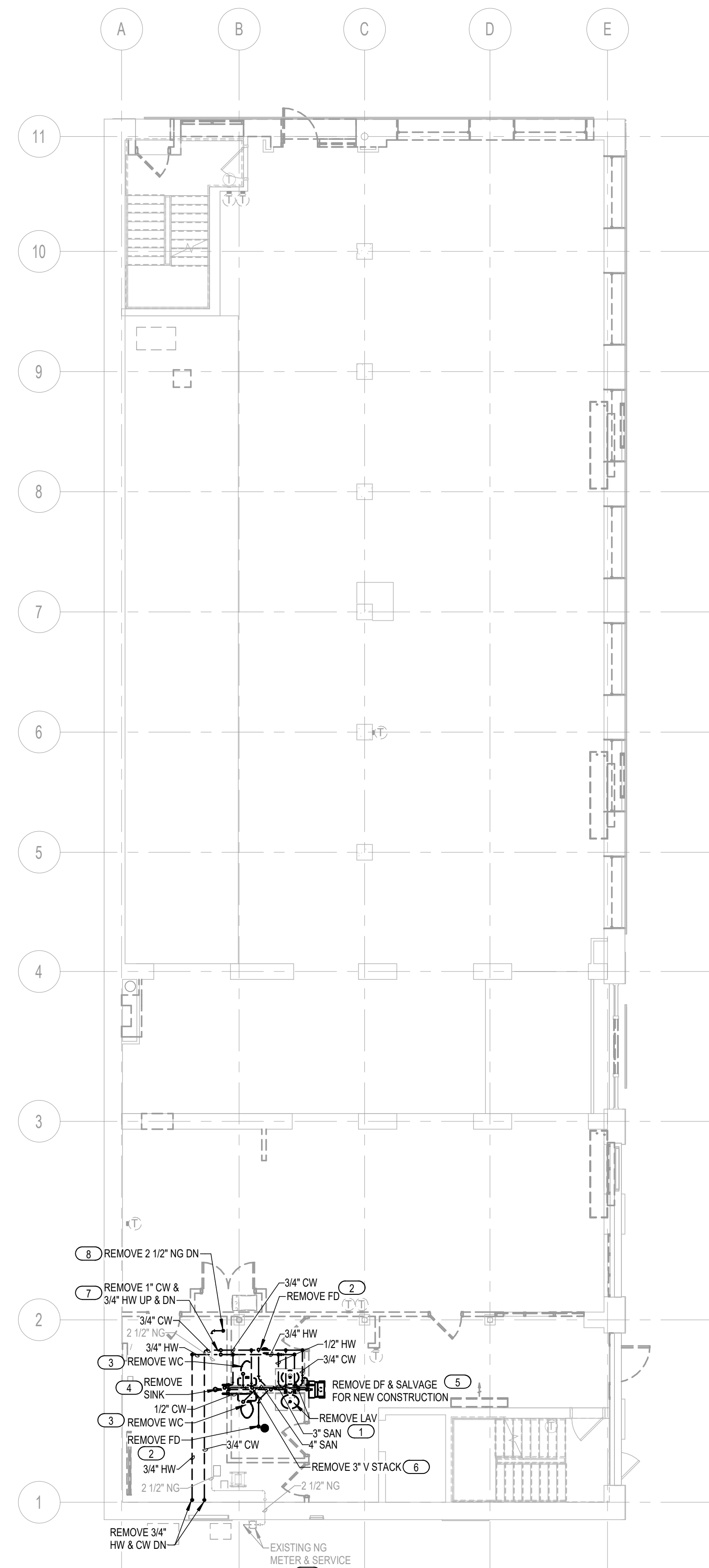
**PLUMBING
DEMOLITION
PLANS - FIRST &
SECOND FLOOR**

PD102

KEYED NOTES	
1	REMOVE LAVATORY AND ALL ASSOCIATED PIPING AND COMPONENTS.
2	REMOVE FLOOR DRAIN AND ALL ASSOCIATED PIPING AND COMPONENTS.
3	REMOVE WATER CLOSET AND ALL ASSOCIATED PIPING AND COMPONENTS.
4	REMOVE SINK AND ALL ASSOCIATED PIPING AND COMPONENTS.
5	REMOVE ELECTRIC WATER COOLER AND ALL ASSOCIATED PIPING AND COMPONENTS. ELECTRIC WATER COOLER SHALL BE SALVAGED, MAINTAINED AND CLEANED FOR INSTALL DURING NEW CONSTRUCTION.
6	REMOVE EXISTING VENT STACK AND ASSOCIATED COMPONENTS ON ALL FLOORS UP TO VENT THROUGH ROOF. VENT THROUGH ROOF SHALL REMAIN TO BE CONNECTED TO DURING NEW CONSTRUCTION.
7	REMOVE EXISTING DOMESTIC WATER RISERS FROM FLOOR TO FLOOR AS SHOWN.
8	REMOVE EXISTING NATURAL GAS MAIN FROM FIRST FLOOR TO BASEMENT, AS SHOWN, FOR RELOCATION AS REQUIRED PER NEW WALL AND CHASE LOCATIONS.
9	COORDINATE EXISTING AND NEW NATURAL GAS LOADS WITH UTILITY PROVIDER.
10	REMOVE EXISTING WATER HEATER AND ALL ASSOCIATED PIPING AND COMPONENTS. COORDINATE REMOVAL WITH EC.



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



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



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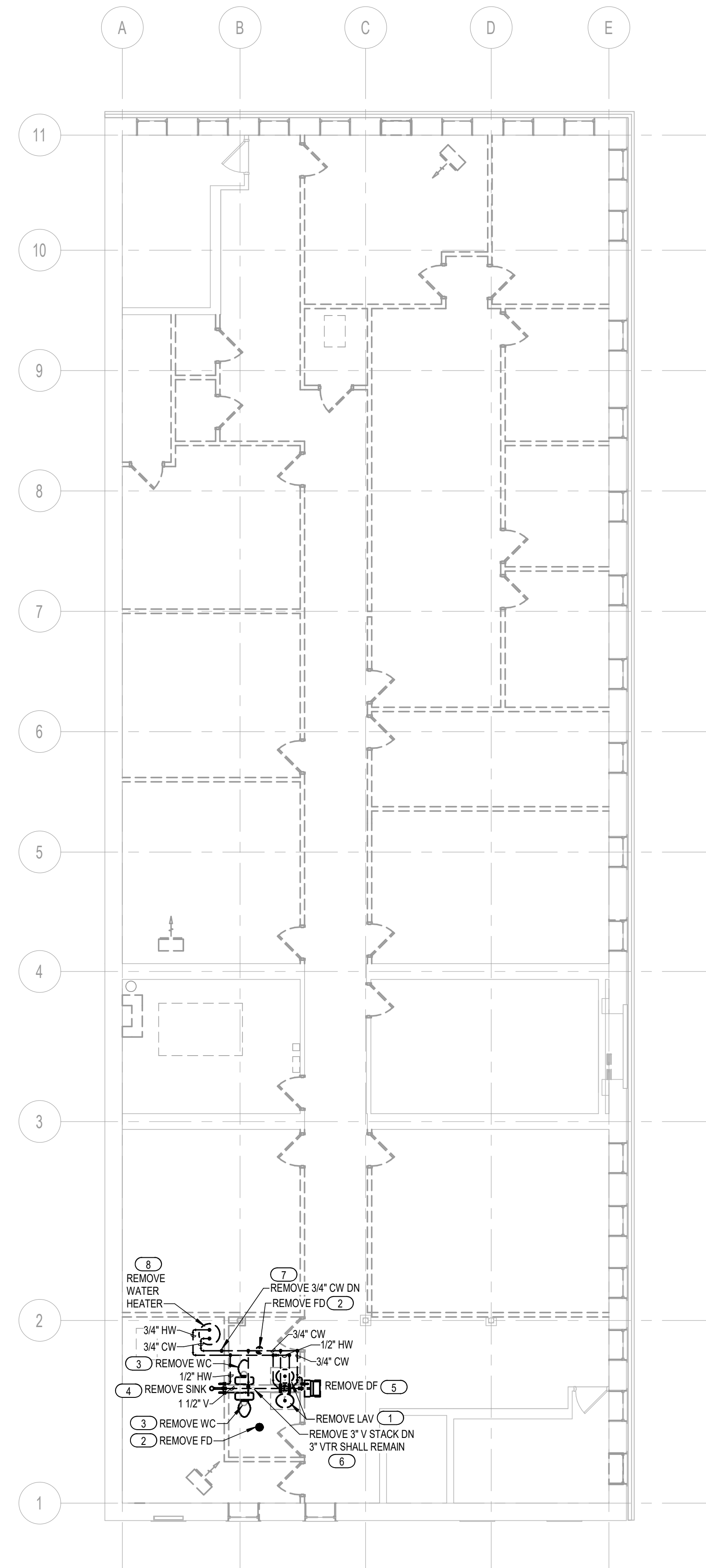
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**PLUMBING
DEMOLITION PLAN
- THIRD FLOOR**

PD103

KEYED NOTES	
1	REMOVE LAVATORY AND ALL ASSOCIATED PIPING AND COMPONENTS.
2	REMOVE FLOOR DRAIN AND ALL ASSOCIATED PIPING AND COMPONENTS.
3	REMOVE WATER CLOSET AND ALL ASSOCIATED PIPING AND COMPONENTS.
4	REMOVE SINK AND ALL ASSOCIATED PIPING AND COMPONENTS.
5	REMOVE ELECTRIC WATER COOLER AND ALL ASSOCIATED PIPING AND COMPONENTS.
6	REMOVE EXISTING VENT STACK AND ASSOCIATED COMPONENTS ON ALL FLOORS UP TO VENT THROUGH ROOF. VENT THROUGH ROOF SHALL REMAIN TO BE CONNECTED TO DURING NEW CONSTRUCTION.
7	REMOVE EXISTING DOMESTIC WATER RISERS FROM FLOOR TO FLOOR AS SHOWN.
8	REMOVE EXISTING WATER HEATER AND ALL ASSOCIATED PIPING AND COMPONENTS. COORDINATE REMOVAL WITH EC.



1 PLUMBING DEMOLITION PLAN - THIRD FLOOR
1/8" = 1'-0"



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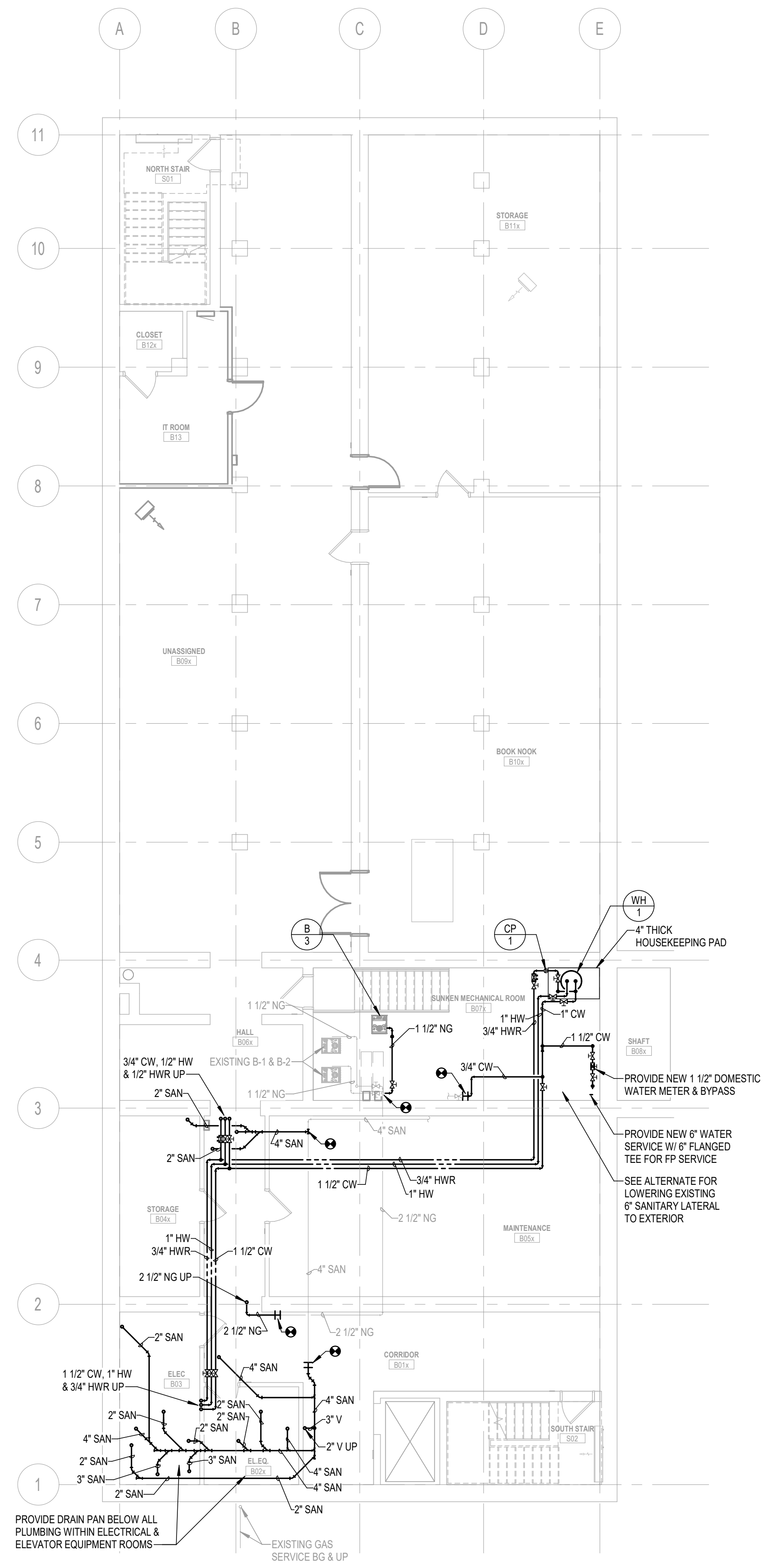
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**PLUMBING PLANS -
BASEMENT**

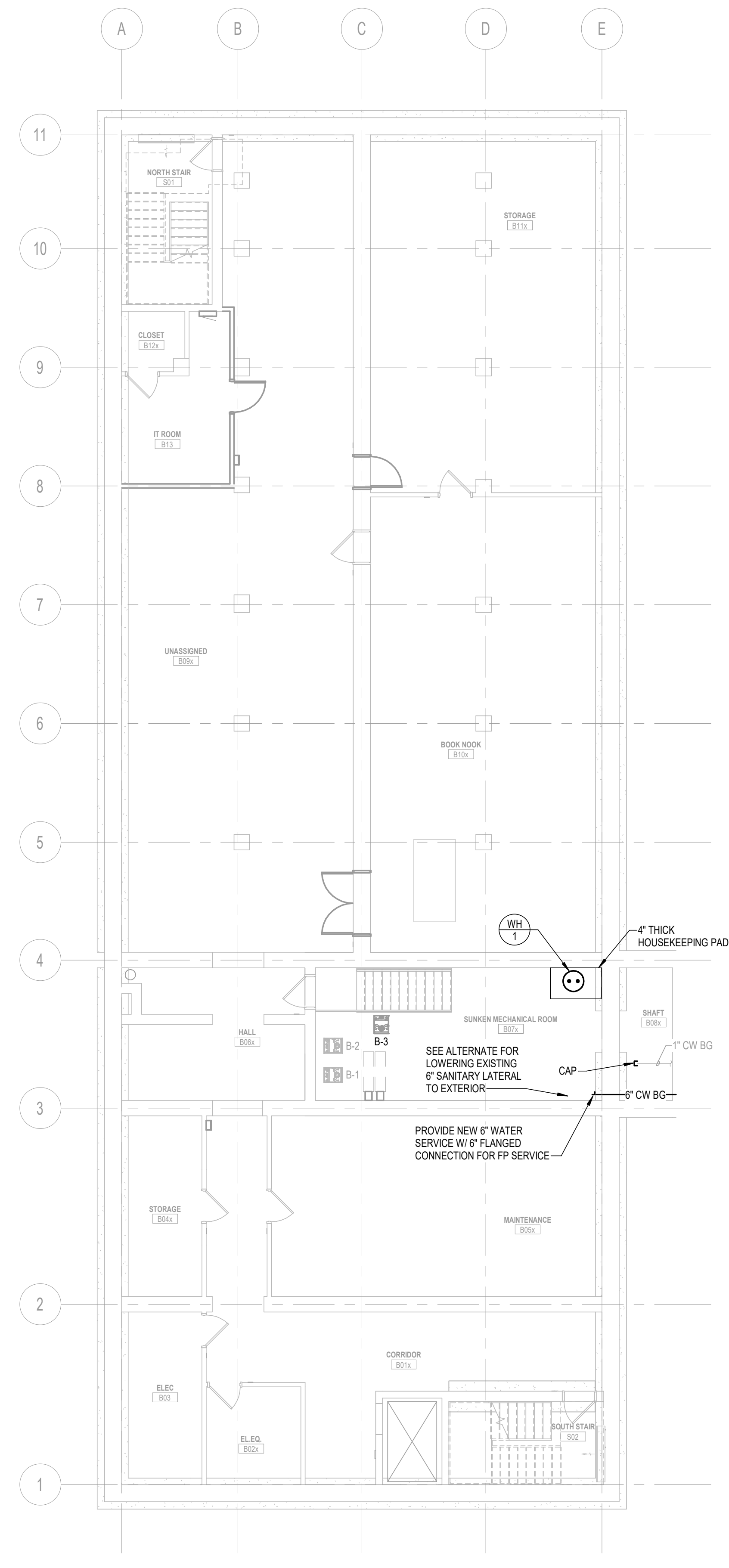
P101

GENERAL NOTES

1. REFER TO PLUMBING SCHEDULES, DETAILS AND ISOMETRICS FOR MORE INFORMATION. ADDITIONAL CALLOUTS AND PIPE SIZES.
2. ALL EQUIPMENT, FIXTURES AND ASSOCIATED COMPONENTS SHALL BE INSTALLED PER MANUFACTURER INSTRUCTIONS AND COMPLY WITH WISCONSIN PLUMBING CODE.
3. COORDINATE PIPE ROUTING AND ELEVATIONS WITH ALL OTHER TRADES.
4. DOMESTIC HOT WATER RECIRCULATION SHALL BE INSTALLED PER WISCONSIN PLUMBING CODE. REFER TO DETAIL 9 ON SHEET P301.



2 PLUMBING PLAN - BASEMENT - AG
1/8" = 1'-0"



1 PLUMBING PLAN - BASEMENT - BG
1/8" = 1'-0"



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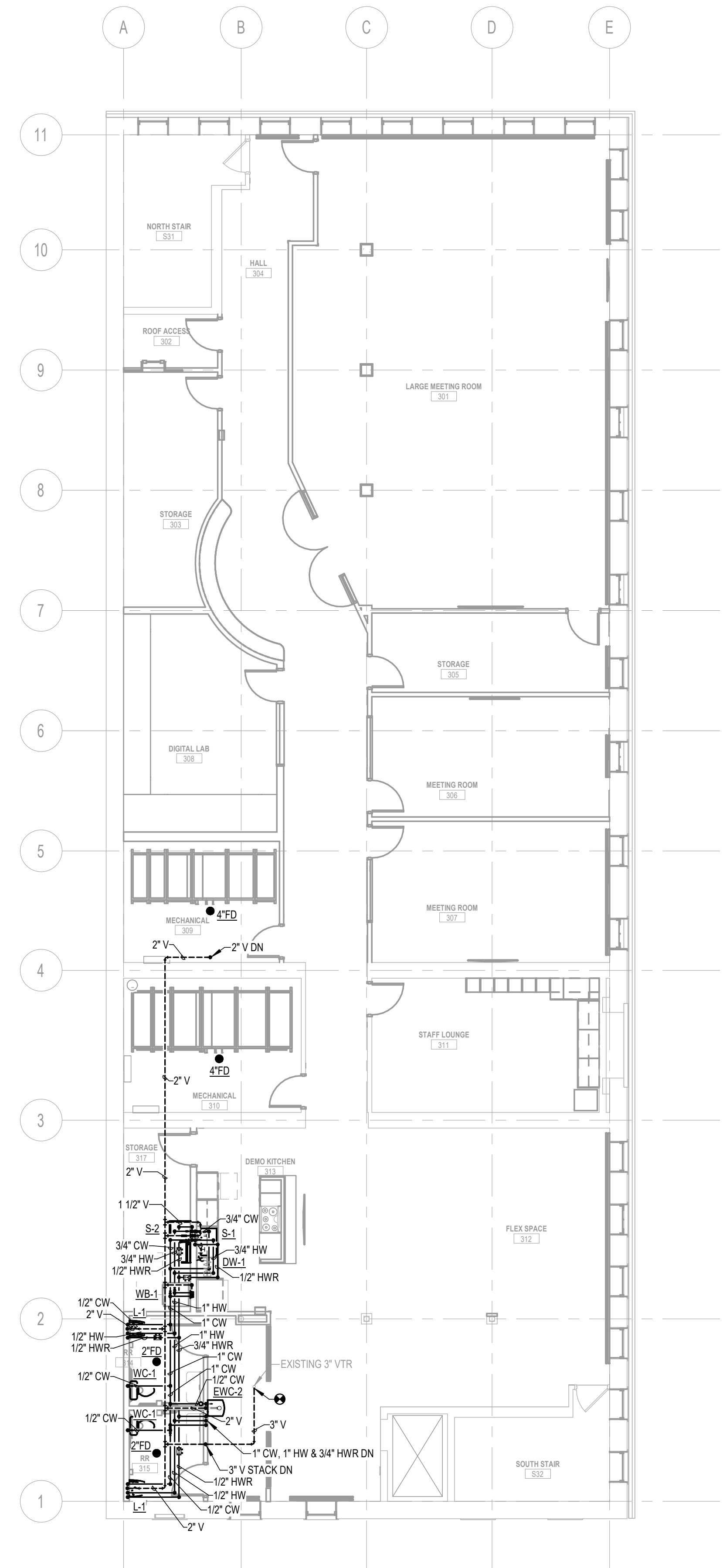
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**PLUMBING PLAN -
THIRD FLOOR**

GENERAL NOTES

1. REFER TO PLUMBING SCHEDULES, DETAILS AND ISOMETRICS FOR MORE INFORMATION, ADDITIONAL CALLOUTS AND PIPE SIZES.
2. ALL EQUIPMENT, FIXTURES AND ASSOCIATED COMPONENTS SHALL BE INSTALLED PER MANUFACTURER INSTRUCTIONS AND COMPLY WITH WISCONSIN PLUMBING CODE.
3. COORDINATE PIPE ROUTING AND ELEVATIONS WITH ALL OTHER TRADES.
4. DOMESTIC HOT WATER RECIRCULATION SHALL BE INSTALLED PER WISCONSIN PLUMBING CODE. REFER TO DETAIL 9 ON SHEET P301.



1 PLUMBING PLAN - THIRD FLOOR
1/8" = 1'-0"



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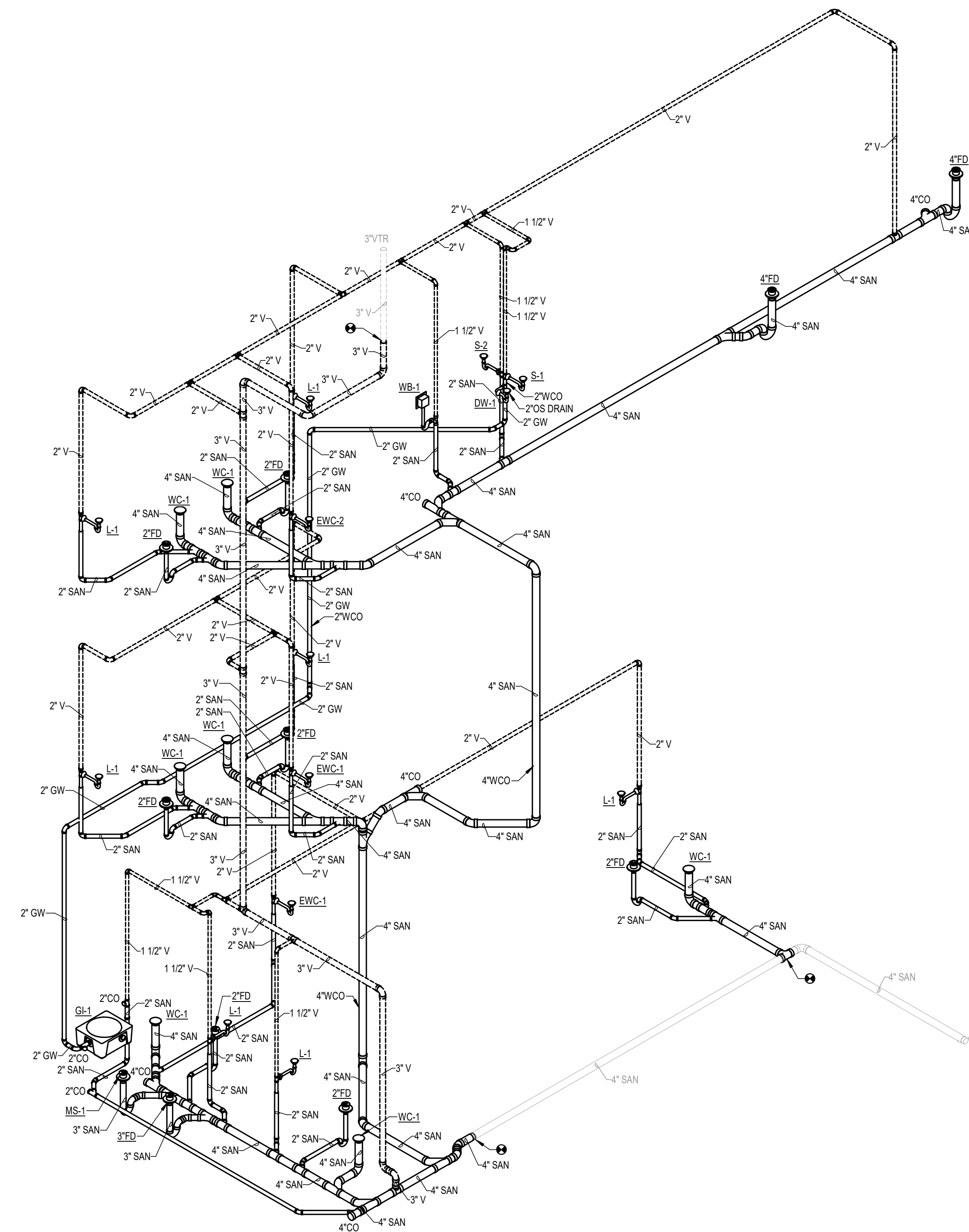


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1 SANITARY PLUMBING ISOMETRIC

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**PLUMBING
ISOMETRIC -
SANITARY**

P201

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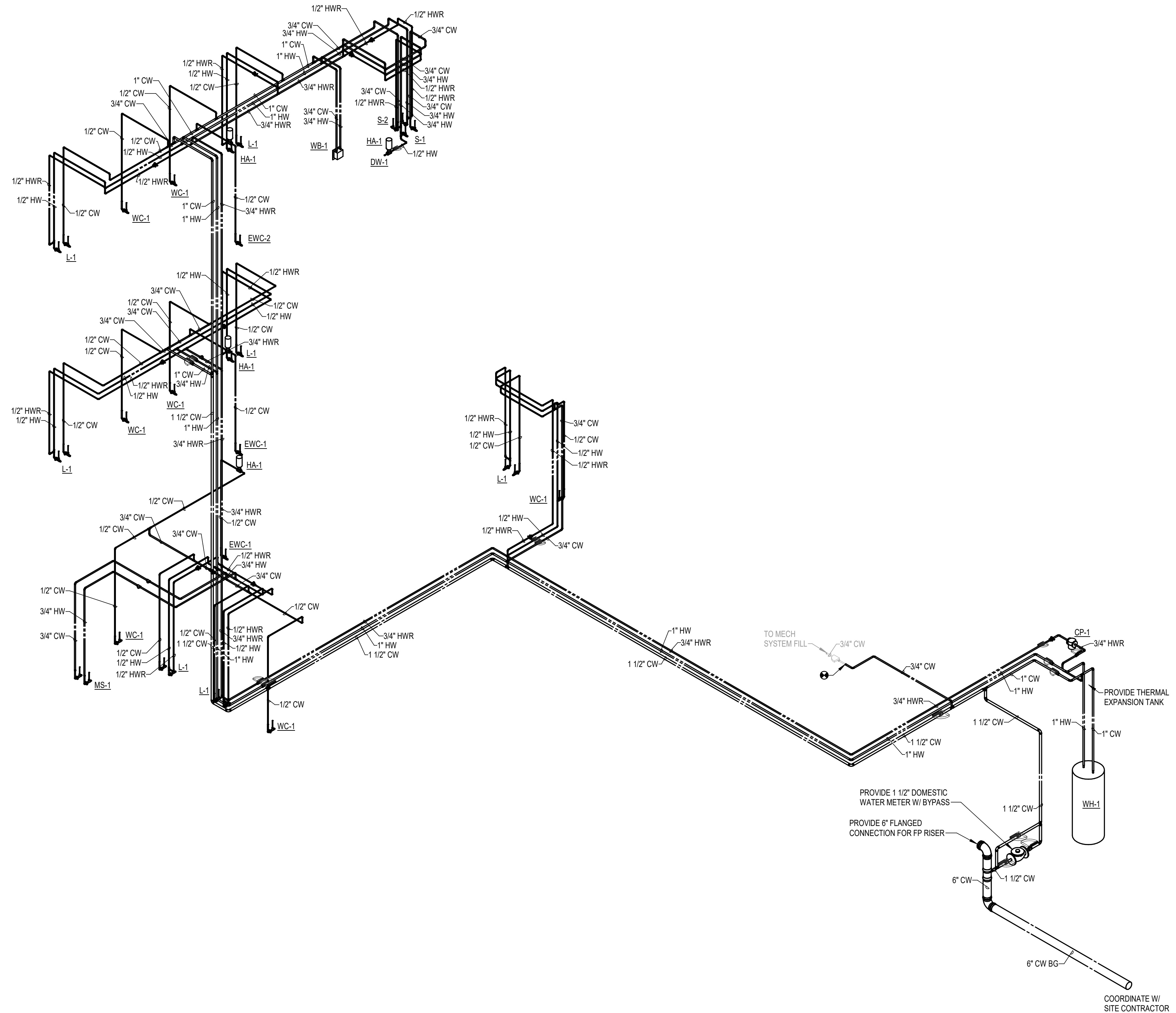


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1 WATER PLUMBING ISOMETRIC

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**PLUMBING
ISOMETRIC -
DOMESTIC WATER**

P202

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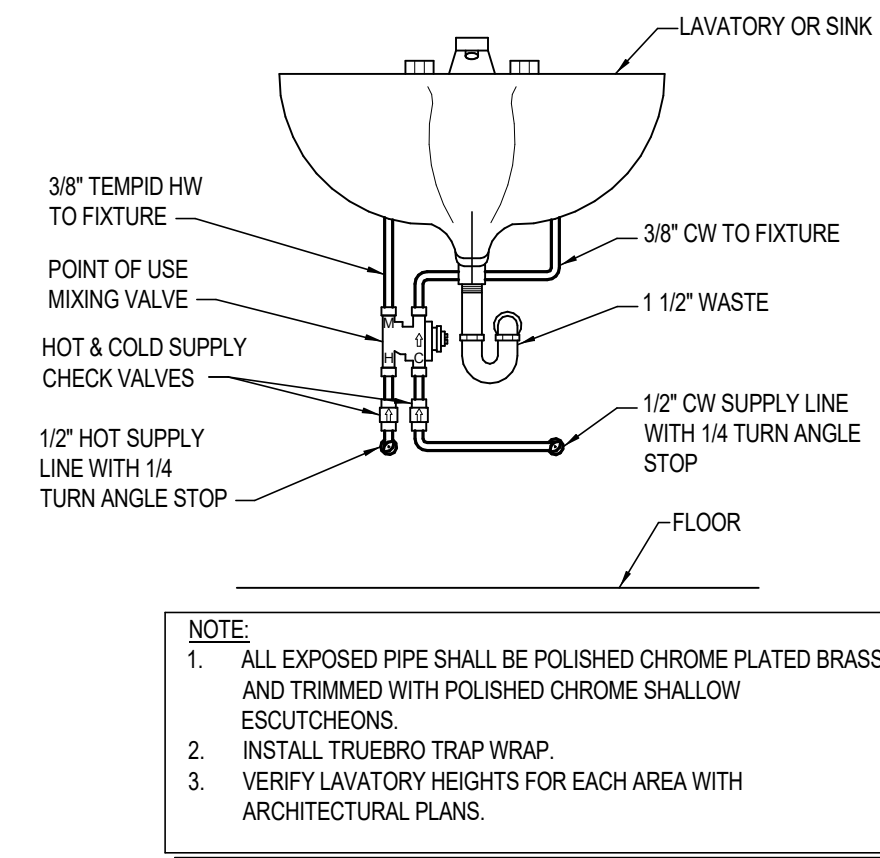
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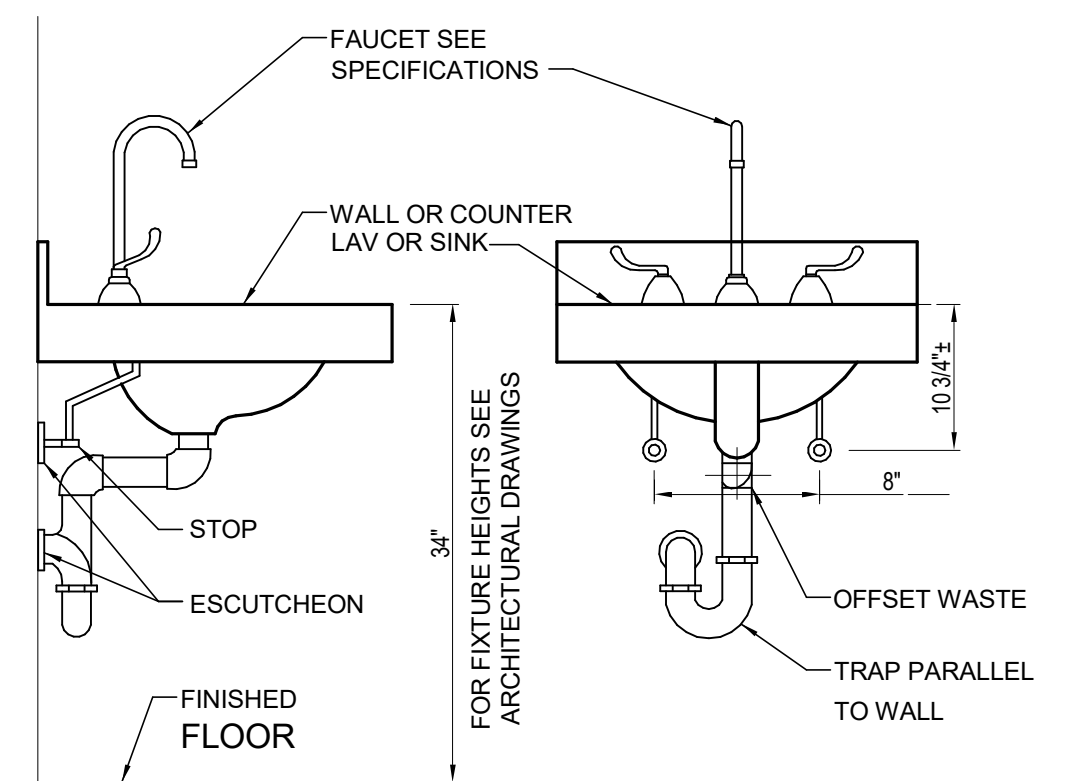
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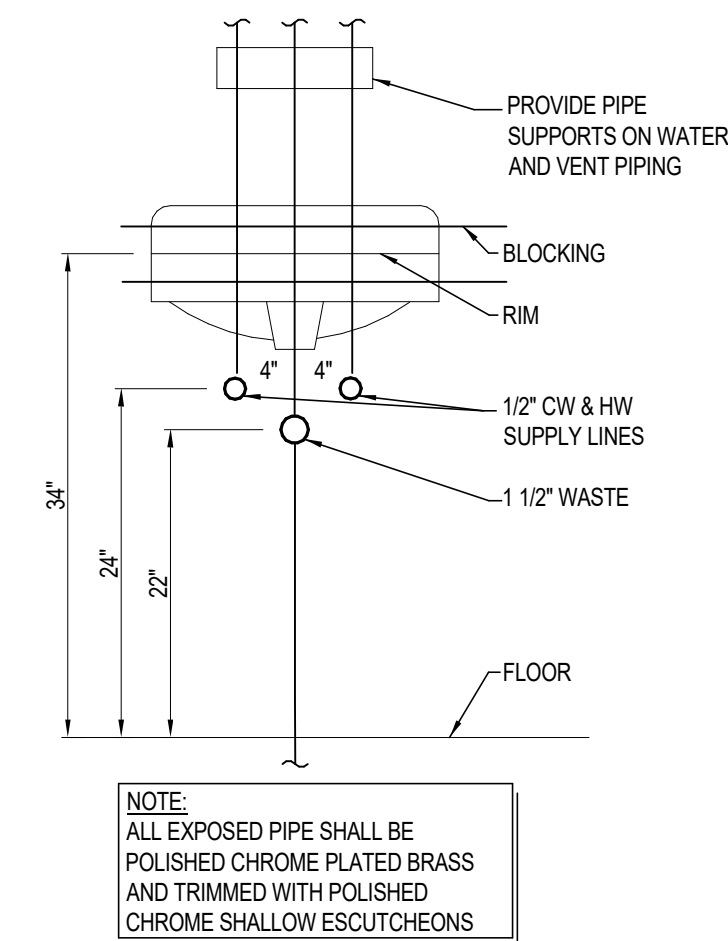
**PLUMBING
DETAILS**



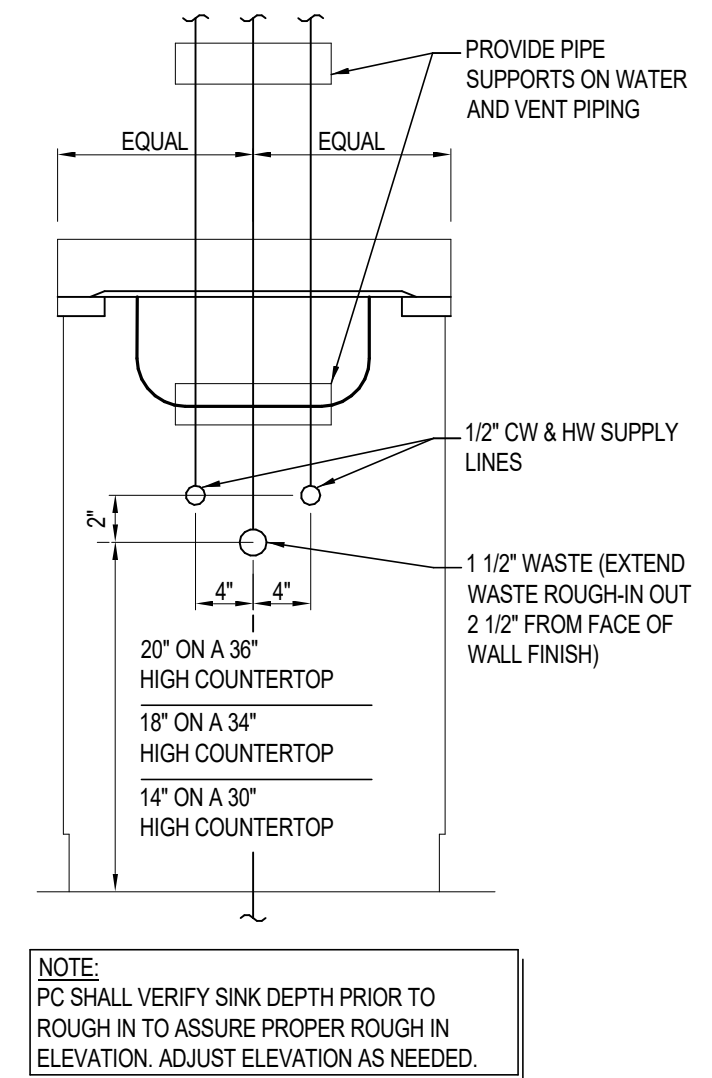
4 POINT OF USE MIXING VALVE DETAIL
NOT TO SCALE



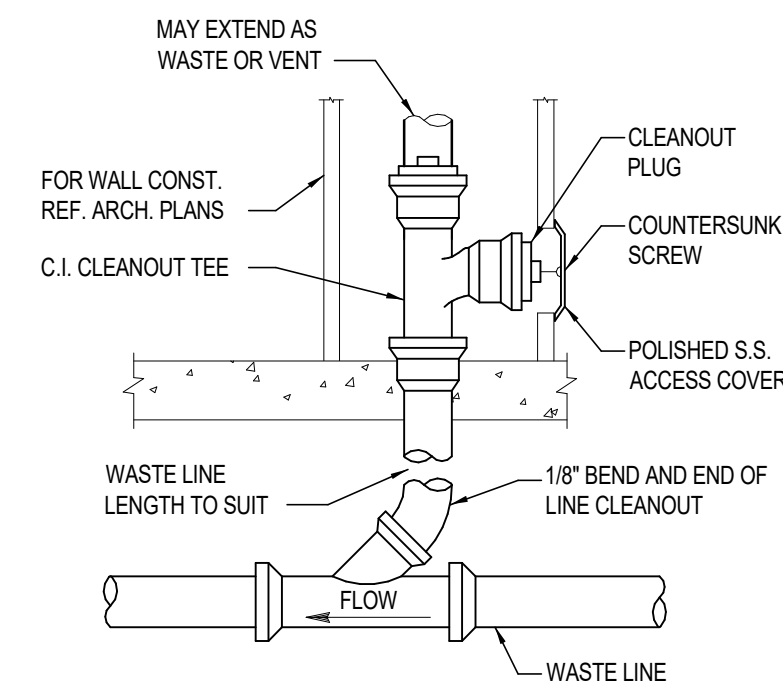
3 TYPICAL WHEELCHAIR LAV/SINK DETAIL
NOT TO SCALE



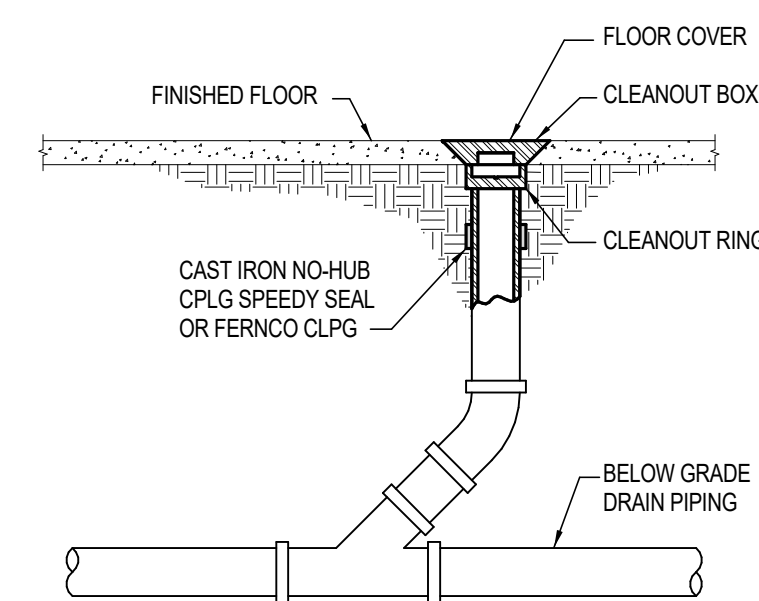
2 LAVATORY DETAIL
NOT TO SCALE



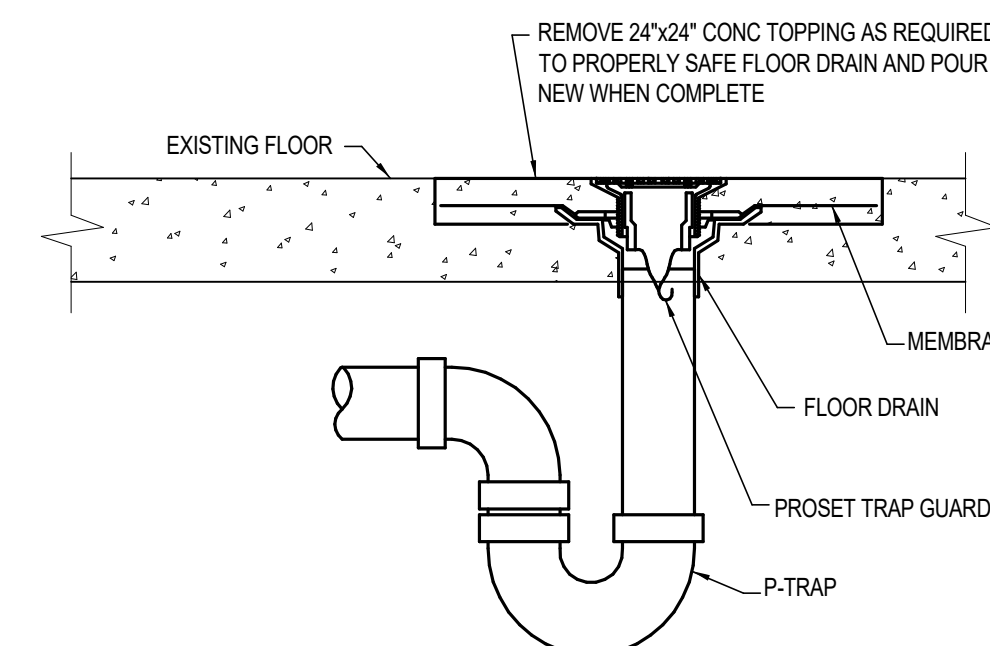
1 SINK ROUGH-IN DETAIL
NOT TO SCALE



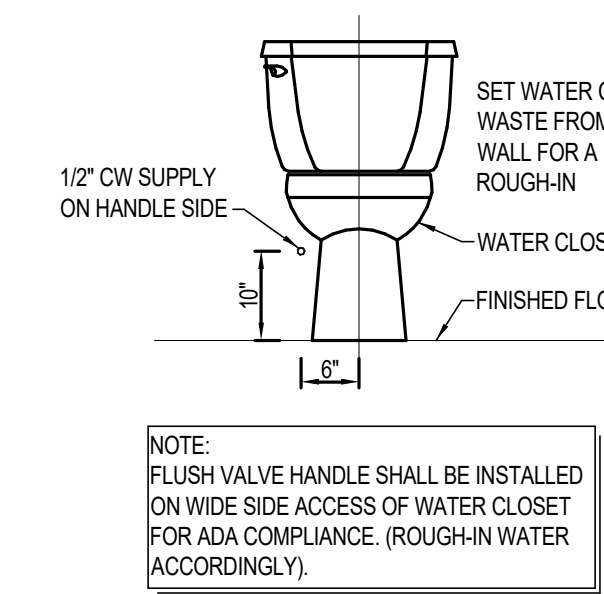
8 WALL CLEANOUT DETAIL
NOT TO SCALE



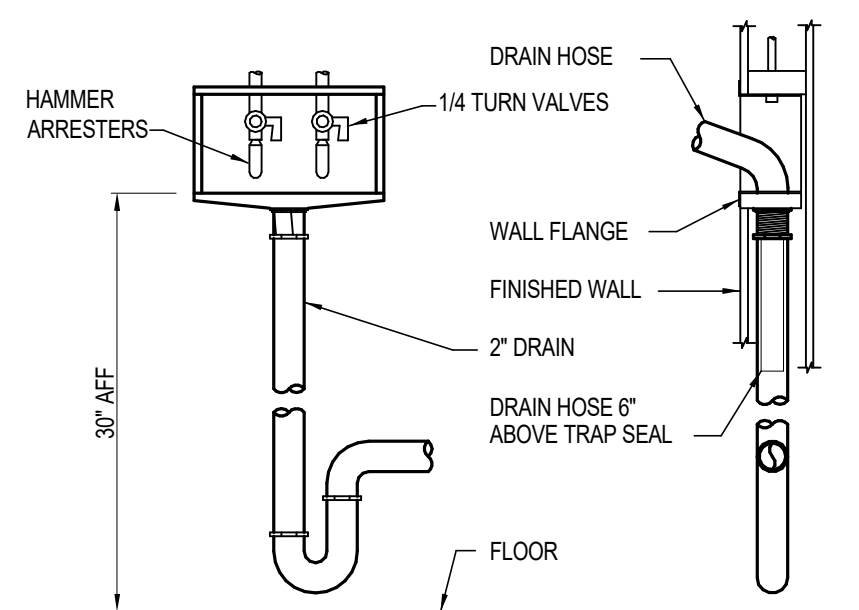
7 INTERIOR CLEANOUT DETAIL
NOT TO SCALE



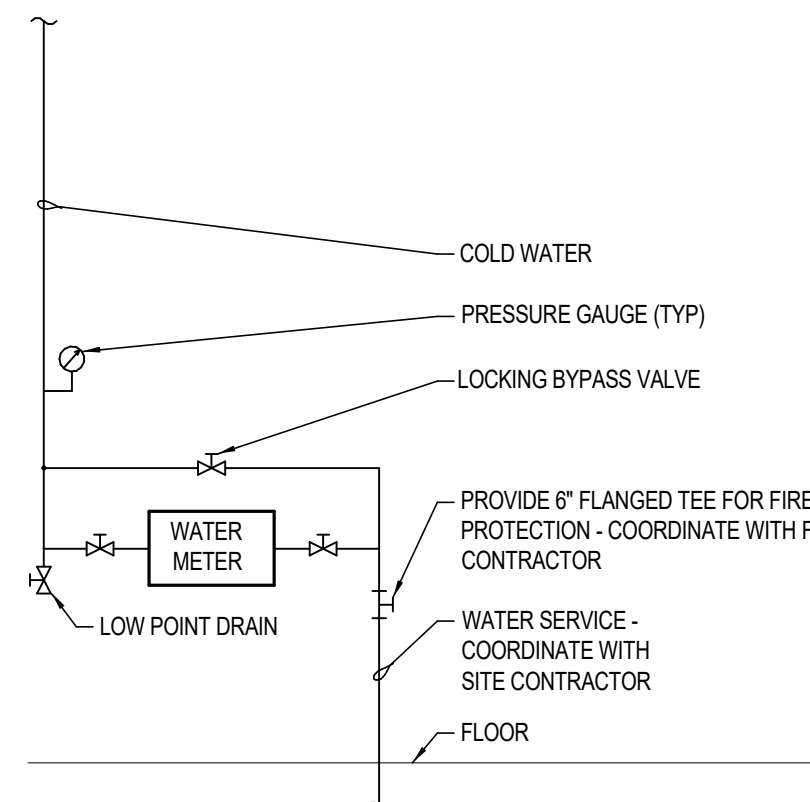
6 FLOOR DRAIN SAFING DETAIL
NOT TO SCALE



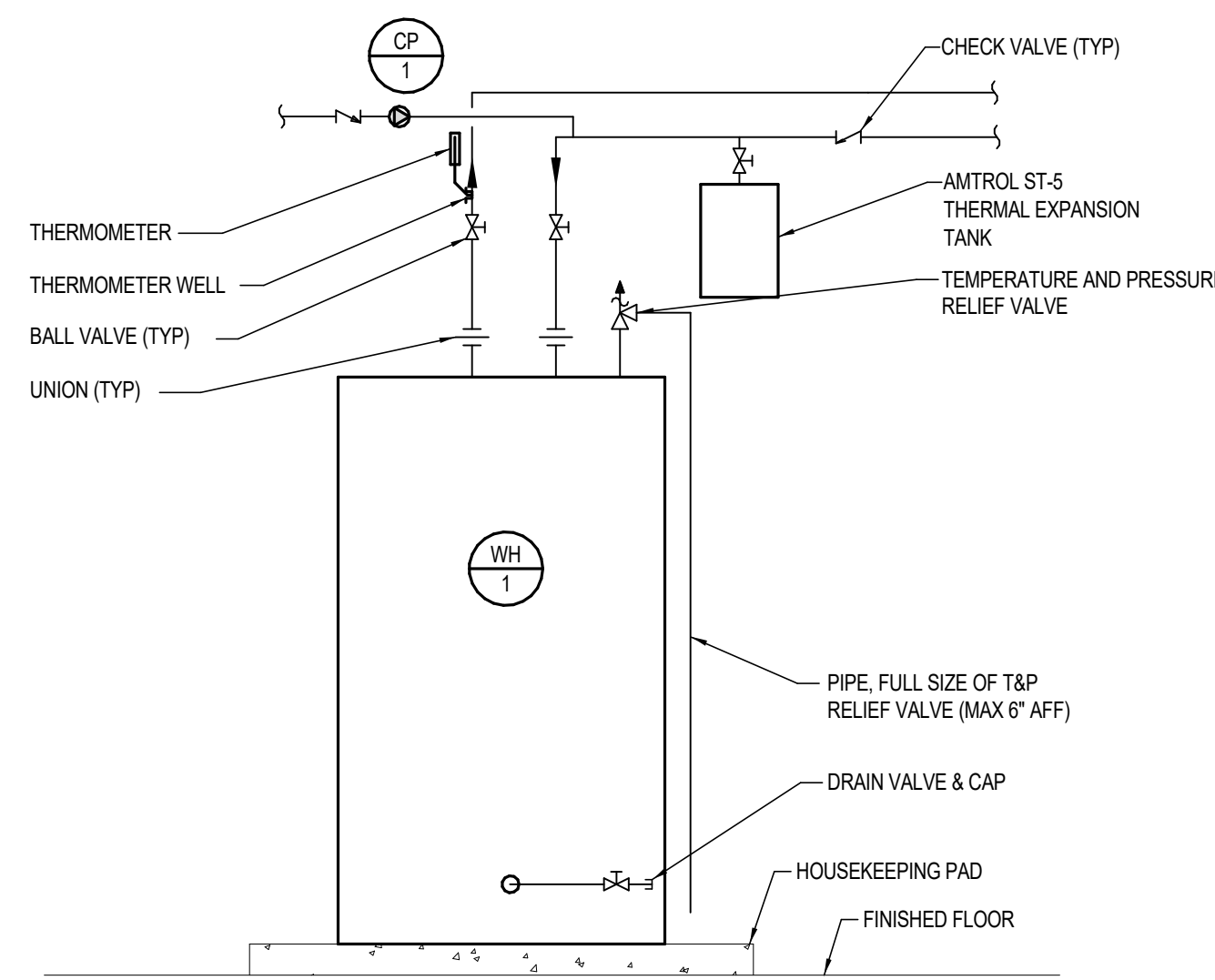
5 ADA WATER CLOSET ROUGH-IN DETAIL
NOT TO SCALE



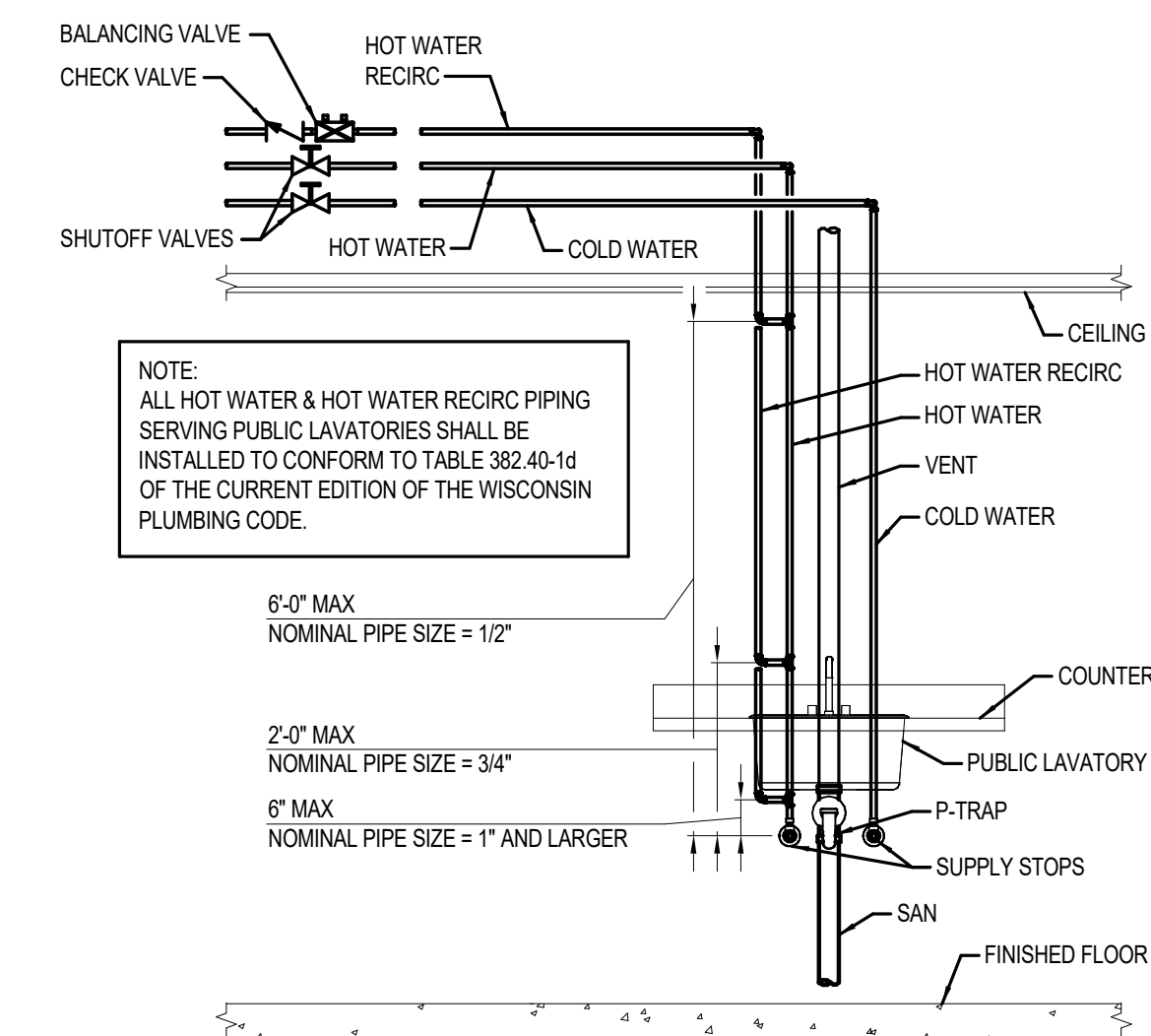
12 CLOTHES WASHER BOX DETAIL
NOT TO SCALE



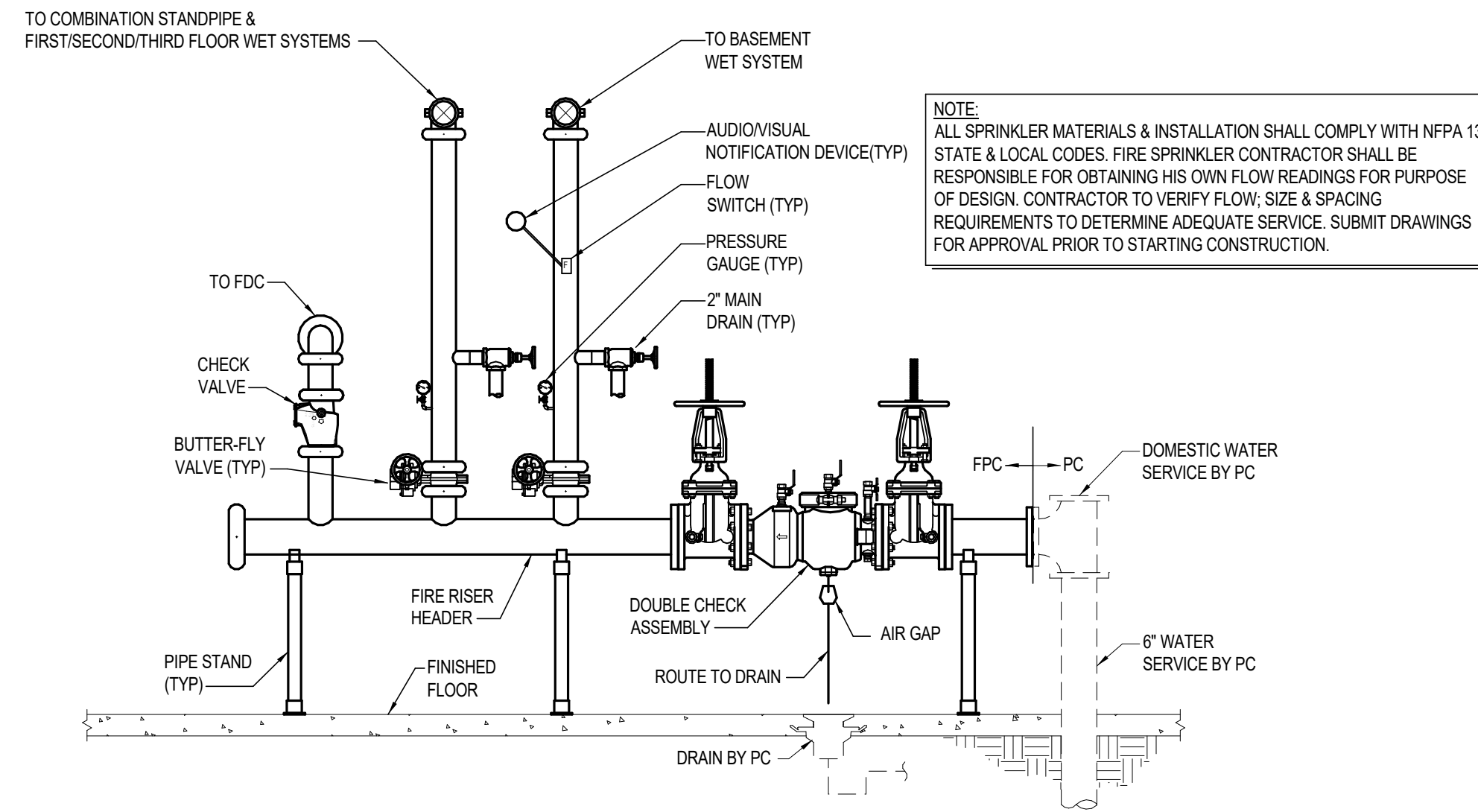
11 WATER ENTRANCE DETAIL
NOT TO SCALE



10 ELECTRIC WATER HEATER DETAIL
NOT TO SCALE



9 PUBLIC LAVATORY HW RECIRC DETAIL
NOT TO SCALE



1 FIRE SPRINKLER RISER ASSEMBLY DETAIL
NOT TO SCALE

FIRE PROTECTION GENERAL NOTES

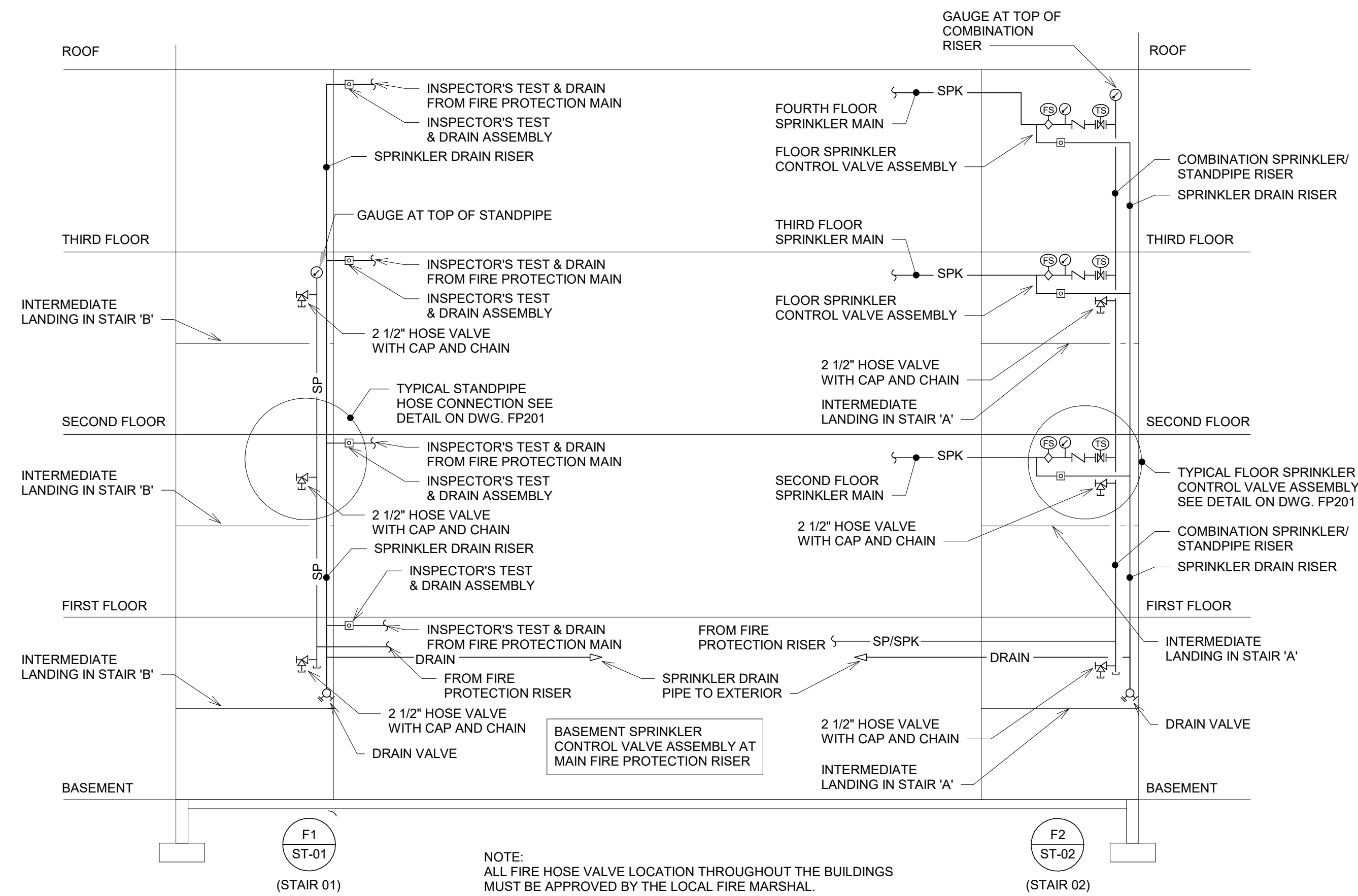
- COORDINATE INSTALLATION OF SPRINKLER PIPING AND ALL COMPONENTS WITH OTHER TRADES, OWNER, AND GENERAL CONTRACTOR.
- FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR REMOVING AND REINSTALLING ALL CEILING COMPONENTS AS REQUIRED TO INSTALL SPRINKLER PIPING AND HEADS.
- FIRE PROTECTION SYSTEM TO COMPLY WITH NFPA #13, INSURANCE CARRIER AND ALL APPLICABLE STATE AND LOCAL CODES.
- FIRE PROTECTION CONTRACTOR SHALL VISIT SITE PRIOR TO BID VERIFY ALL EXISTING CONDITIONS PRIOR TO BIDDING TO INSURE THE COORDINATION OF THE FIRE SERVICES WITH EXISTING CONDITIONS. WORK INDICATED ON THE DRAWINGS IS BASED ON THE BEST AVAILABLE INFORMATION CONCERNING LOCATIONS AND SIZES OF SPRINKLER PIPING.
- CUTTING OF STRUCTURAL AND/OR ARCHITECTURAL MEMBERS TO BE DONE ONLY WITH THE WRITTEN APPROVAL OF THE ARCHITECT AND STRUCTURAL ENGINEER.
- SPRINKLER HEAD LOCATIONS ARE FOR SCHEMATIC USE AND ANY ADDITIONAL HEADS REQUIRED PER CODE SHALL BE INSTALLED. VERIFY STRUCTURAL, MECHANICAL, ELECTRICAL INSTALLATIONS AND AVOID OBSTRUCTIONS OR INTERFERENCES.
- PROVIDE MINIMUM 5 PSI SAFETY FACTOR, OVER SIZE MAINS TO ACCOMMODATE FUTURE ADDITIONS.
- WORKING DRAWINGS INDICATING SPRINKLER HEAD LOCATIONS AND EXPOSED AND CONCEALED PIPING ROUTING SHALL BE PROVIDED TO THE ARCHITECT/ENGINEER PRIOR TO INSTALLATION FOR APPROVAL.
- FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR ORGANIZING A COORDINATION MEETING WITH OTHER TRADES AND OWNER PRIOR TO INSTALLATION.
- SYSTEM PIPING LOCATION: WET SYSTEM PIPING SHALL BE INSTALLED AT HIGHEST ELEVATION POSSIBLE. PIPING SHALL BE INSTALLED ABOVE ALL MECHANICAL EQUIPMENT, DUCTWORK, AND ALL PLUMBING SYSTEM PIPING. PROVIDE ADEQUATE CLEARANCE TO MECHANICAL UNITS. FIRE PROTECTION CONTRACTOR SHALL COORDINATE FIRE PROTECTION PIPING PRIOR TO INSTALLATION.
- ALL SPRINKLER HEADS SHALL BE INSTALLED CENTER OF TILE.
- PROPERLY TORQUE MECHANICAL TEES TO MANUFACTURER'S RECOMMENDATIONS.
- CONSTRUCTION IS COMBUSTIBLE. ALL COMBUSTIBLE, CONCEALED SPACES ARE TO HAVE FIRE PROTECTION COVERAGE.

FIRE PROTECTION SYMBOL LEGEND

	SHUTOFF VALVE
	CHECK VALVE
	DOUBLE CHECK VALVE
	END CAP
	PIPE CONNECTION
	CONCEALED SPRINKLER HEAD
	UPRIGHT SPRINKLER HEAD
	SEMI-RECESSED SPRINKLER HEAD
	UPRIGHT SPRINKLER HEAD WITH SPRIG
	SIDEWALL SPRINKLER HEAD
	FIRE DEPARTMENT CONNECTION (FDC)
	AUDIOVISUAL NOTIFICATION DEVICE

FIRE PROTECTION SHEET INDEX

FP001	FIRE PROTECTION COVER SHEET & RISER DIAGRAM
FP101	FIRE PROTECTION PLANS - BASEMENT & FIRST FLOOR
FP102	FIRE PROTECTION PLANS - SECOND & THIRD FLOOR
FP201	FIRE PROTECTION DETAILS



FIRE PROTECTION RISER DIAGRAM
NOT TO SCALE

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FIRE PROTECTION COVER SHEET & RISER DIAGRAM

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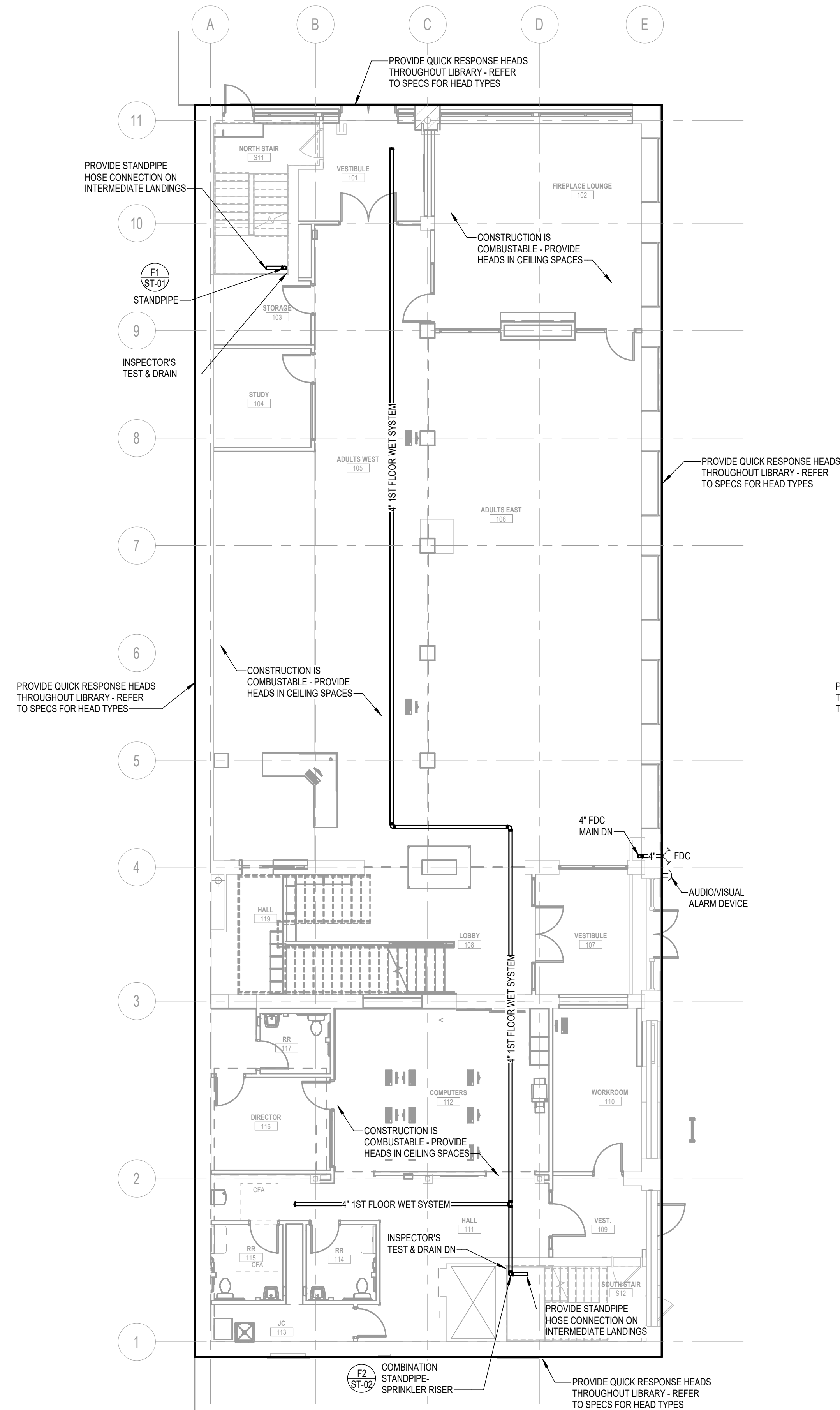
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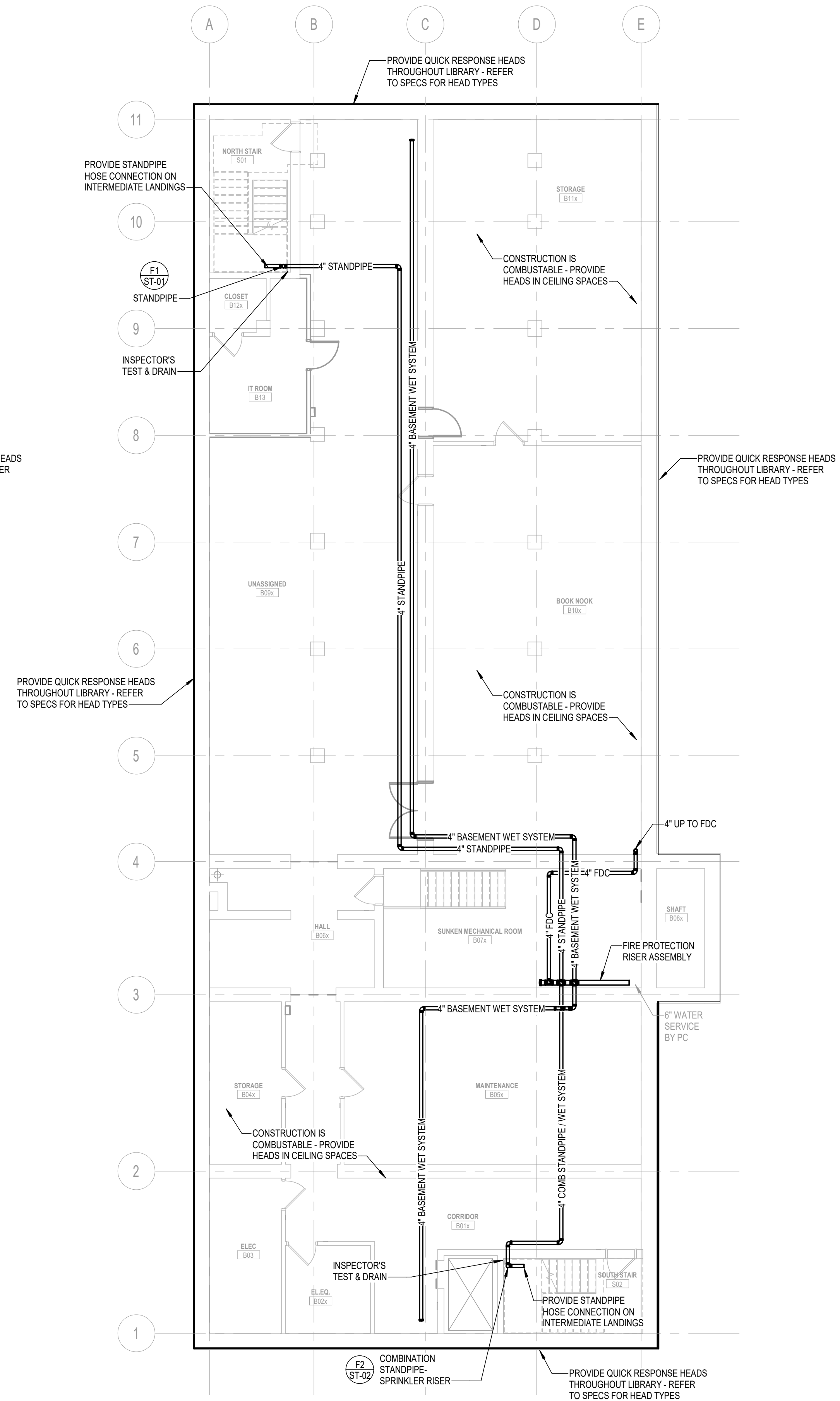
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**FIRE PROTECTION
PLANS -
BASEMENT &
FIRST FLOOR**

FP101



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



1 BASEMENT FIRE PROTECTION PLAN
1/8" = 1'-0"



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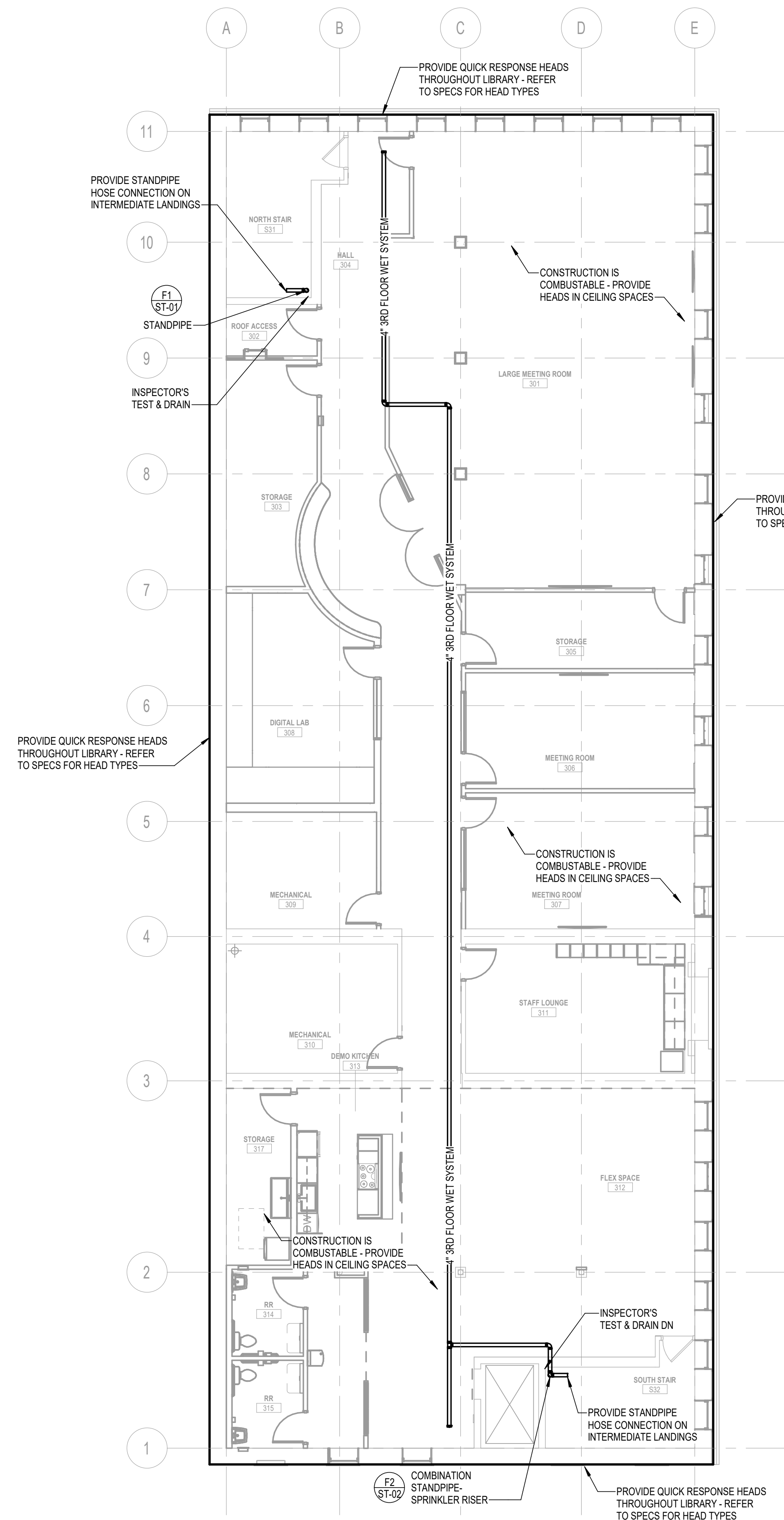
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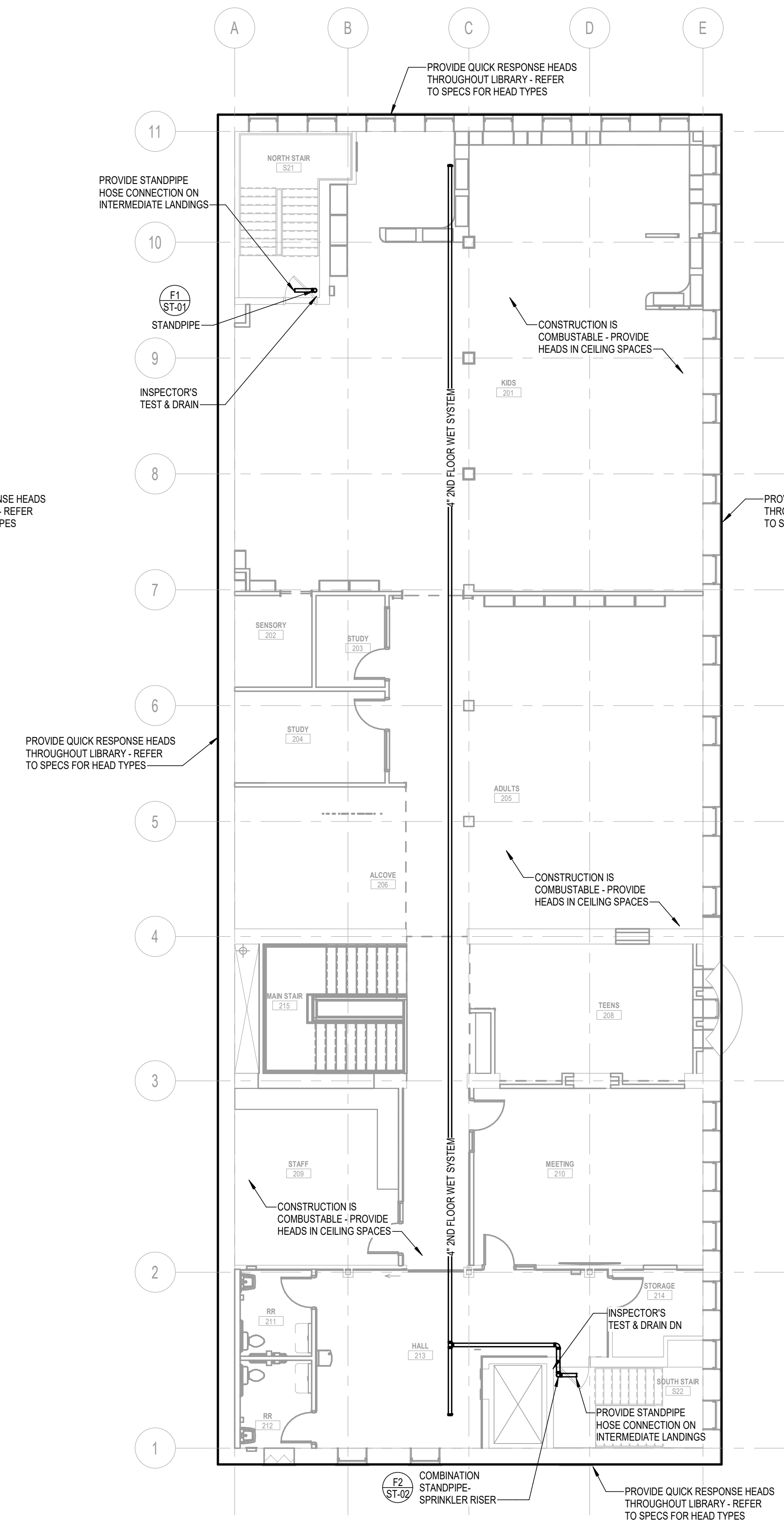
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**FIRE PROTECTION
PLANS - SECOND &
THIRD FLOOR**

FP102



2 THIRD FLOOR FIRE PROTECTION PLAN
1/8" = 1'-0"



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



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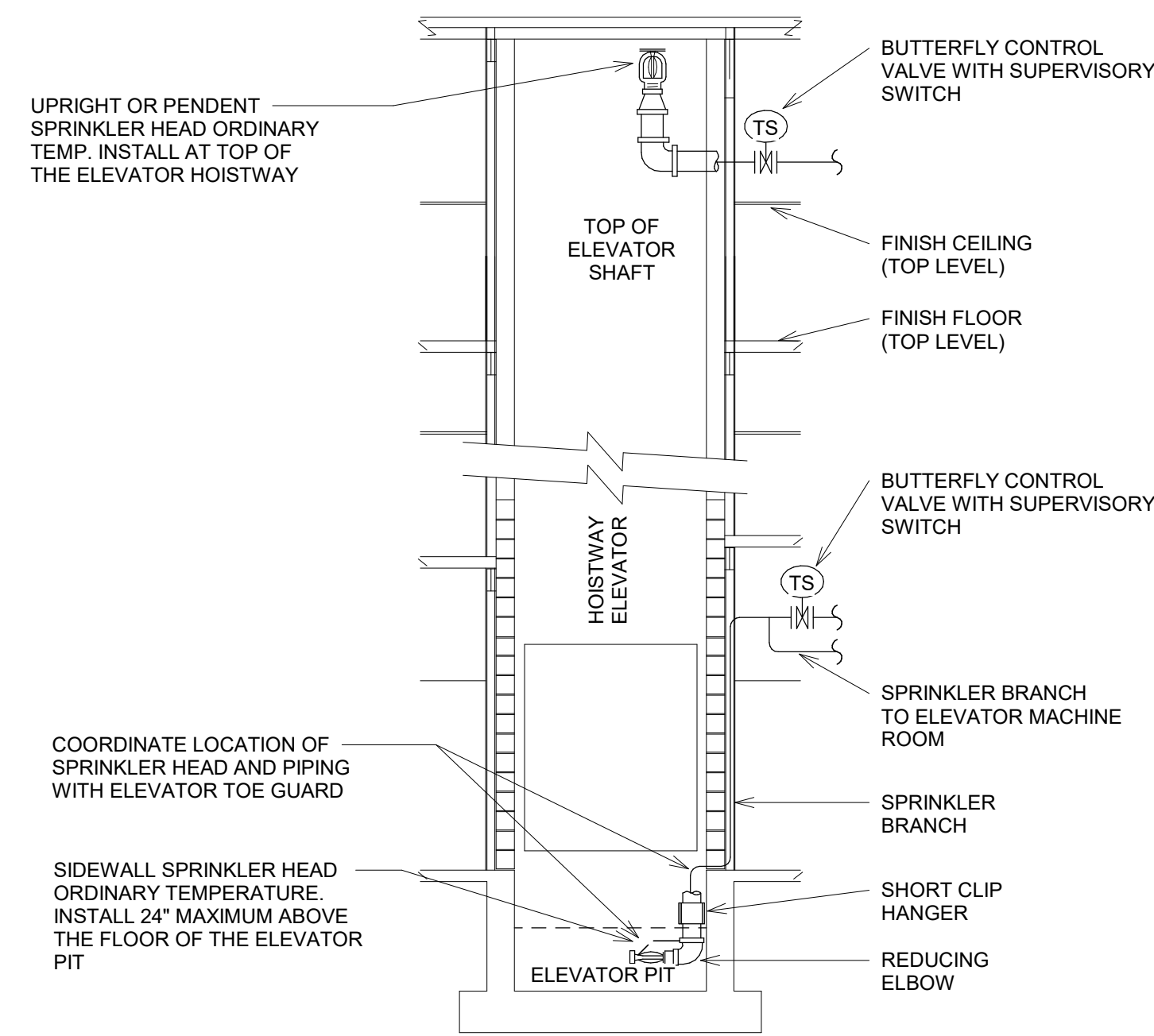
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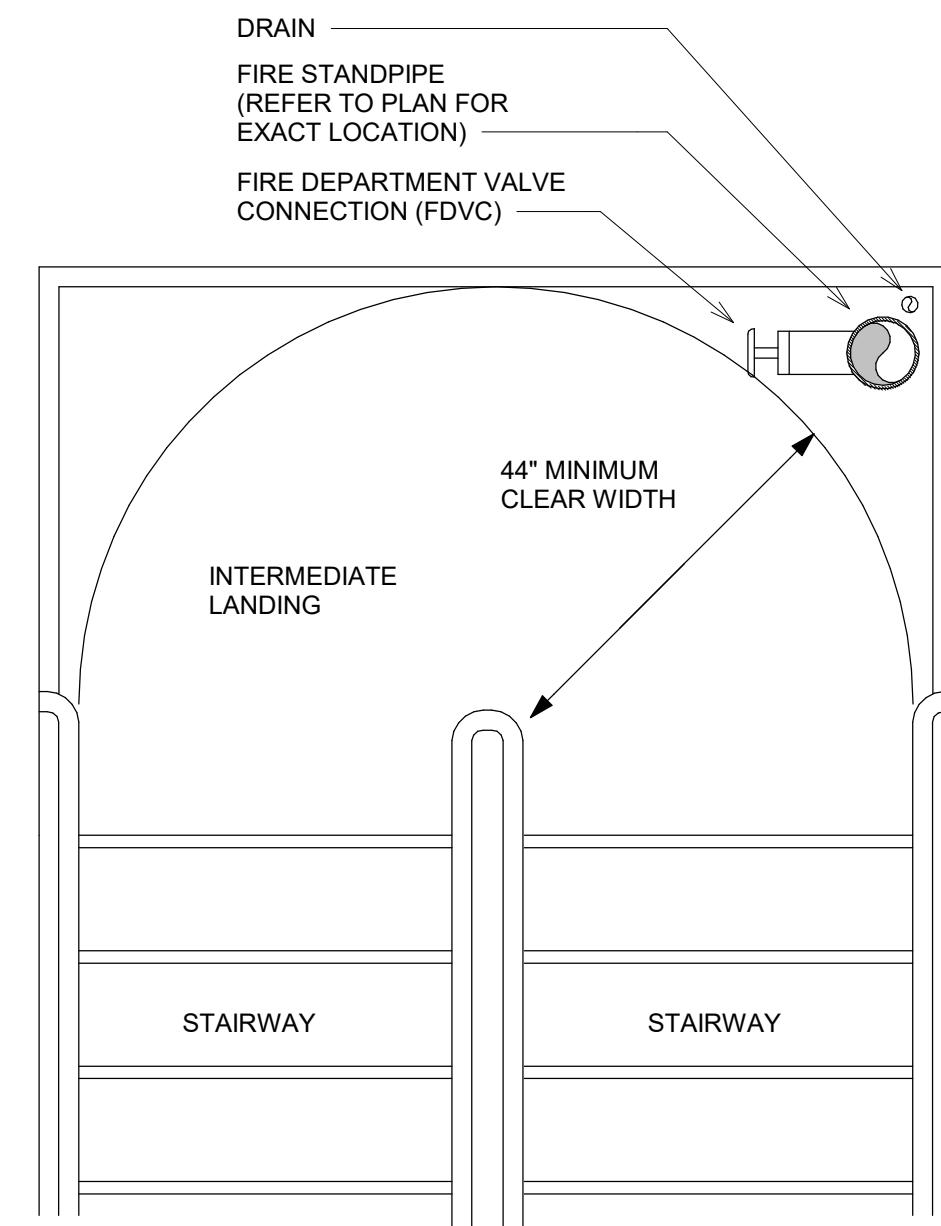
**FIRE PROTECTION
DETAILS**

FP201



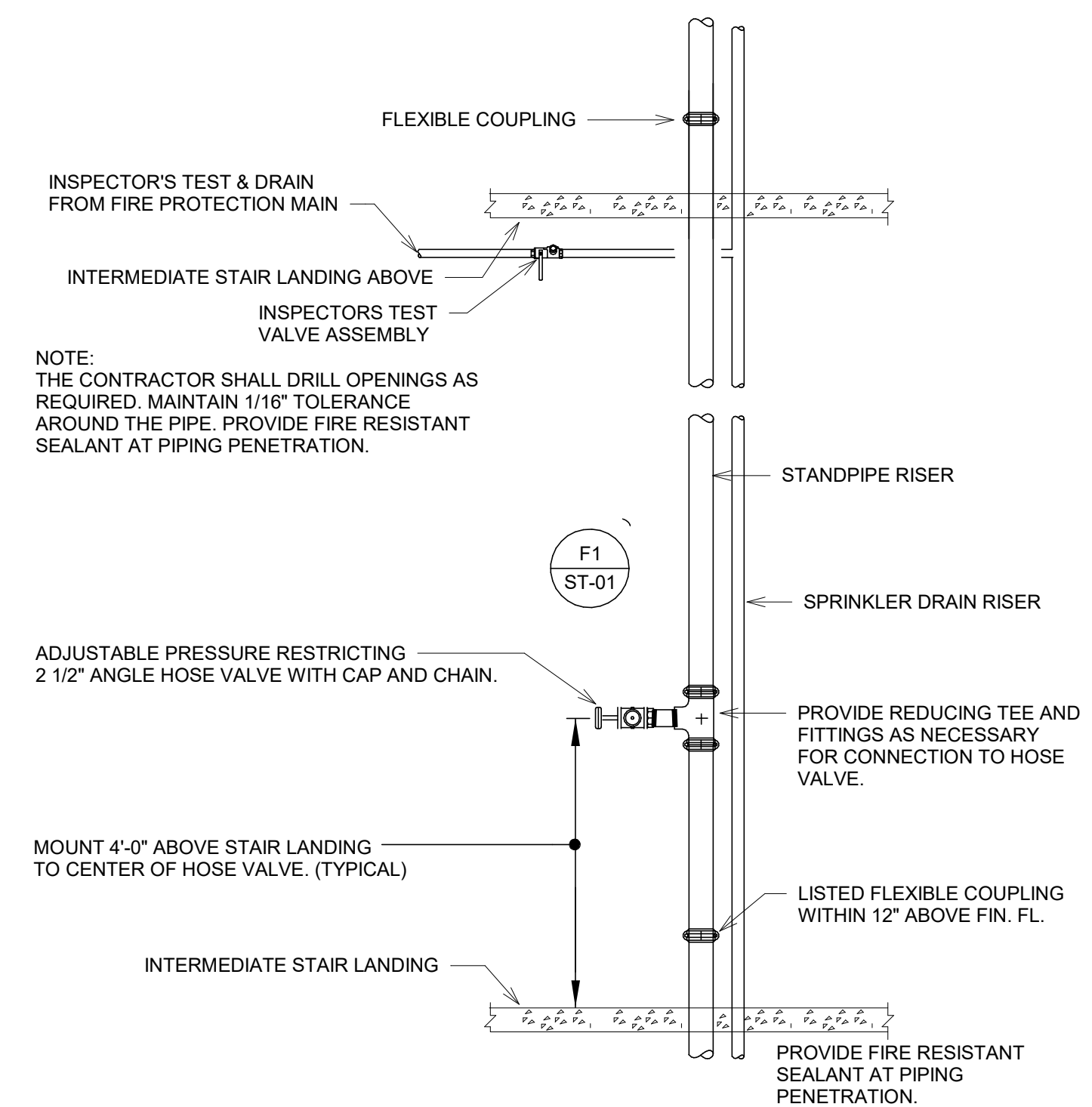
ELEVATOR SPRINKLER PIPING DETAIL

NOT TO SCALE



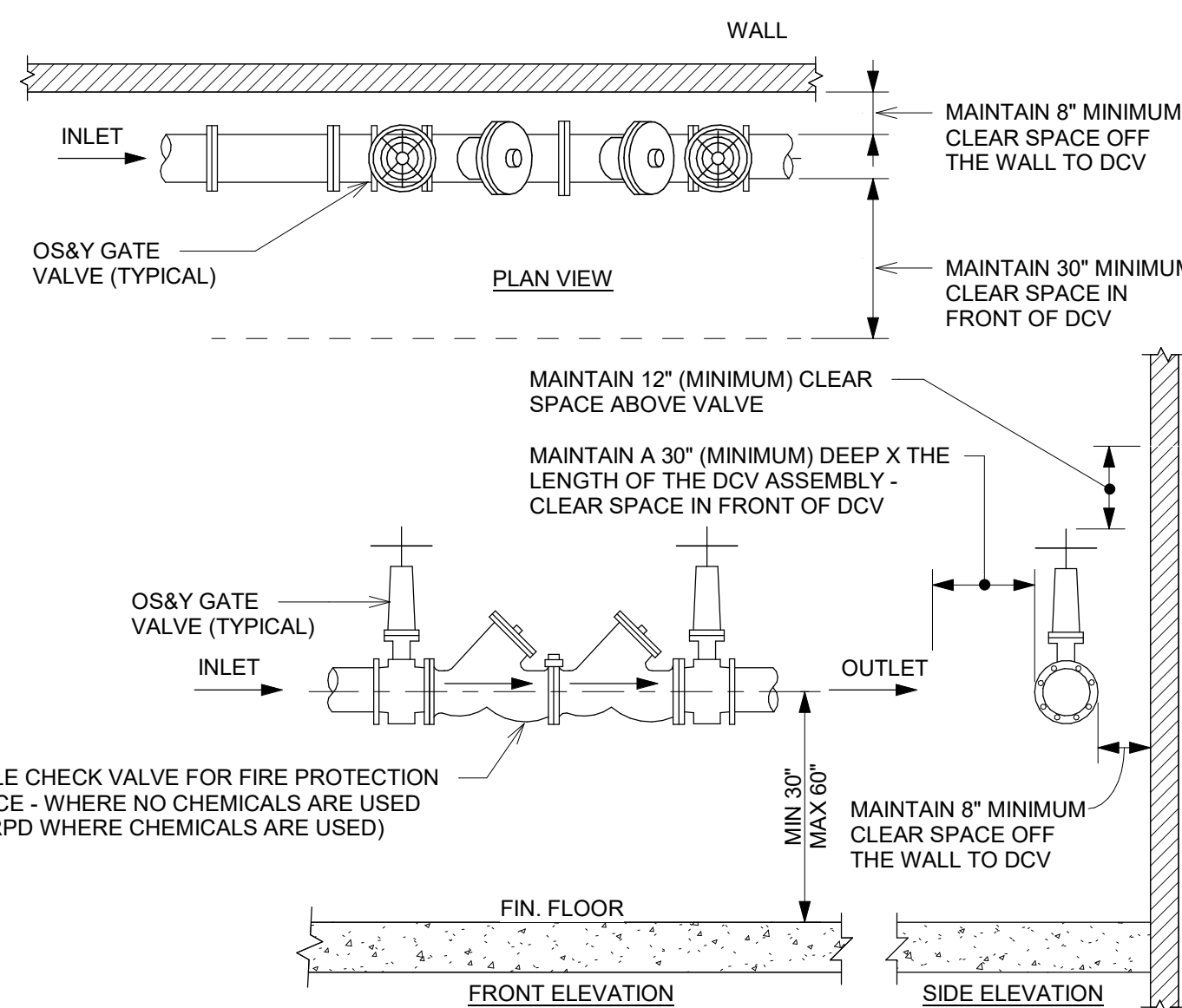
TYPICAL FIRE STANDPIPE LOCATION DETAIL

NOT TO SCALE



STANDPIPE RISER WITH FIRE VALVE DETAIL

NOT TO SCALE



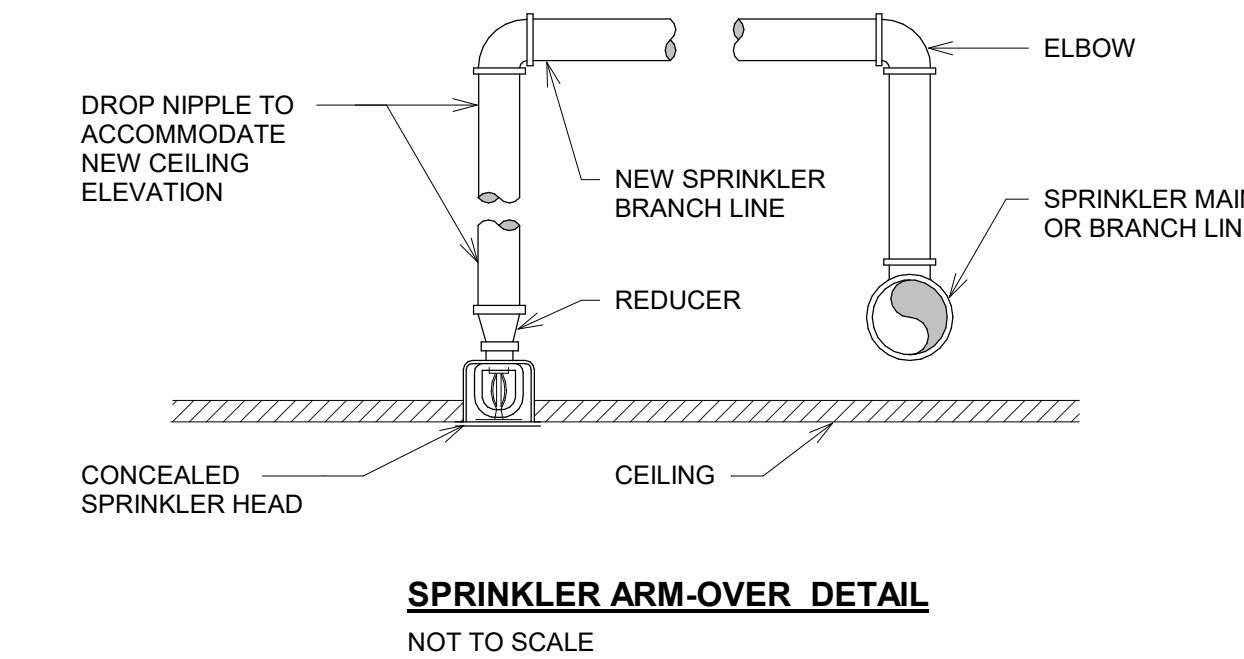
NOTE:
ALL ASSEMBLIES SHALL BE ADEQUATELY SUPPORTED AND/OR RESTRAINED TO PREVENT LATERAL MOVEMENT. PIPE HANGERS, BRACES, SADDLES, STANCHIONS, PIERS, ETC., SHOULD BE USED TO SUPPORT THE DEVICE AND SHOULD BE PLACED IN A MANNER THAT WILL NOT OBSTRUCT ACCESS TO THE TESTING PORTS OR VALVES.

NOTES:

- REFER TO DRAWINGS FOR UNIT SIZE(S).
- THE DCV MOUNTING HEIGHT AND CLEARANCES INDICATED ABOVE SHALL BE MAINTAINED FOR PROPER ACCESS TO UNIT FOR MAINTENANCE, TESTING AND INSPECTION PURPOSES.
- DO NOT INSTALL UNIT ABOVE A CEILING OR CLOSER THAN 24\"/>

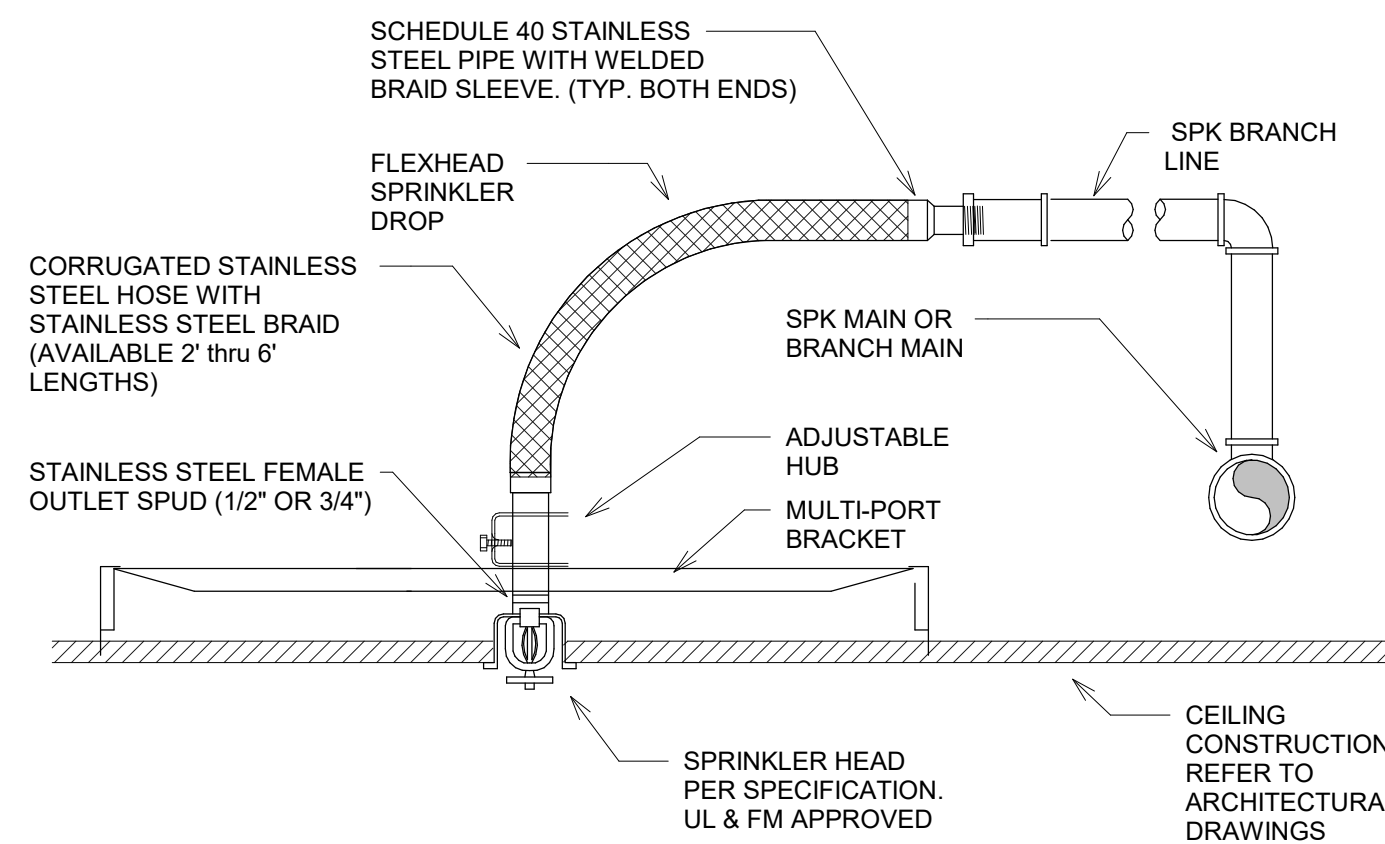
TYPICAL DOUBLE CHECK VALVE BACKFLOW PREVENTER INSTALLATION DETAIL

NOT TO SCALE



SPRINKLER ARM-OVER DETAIL

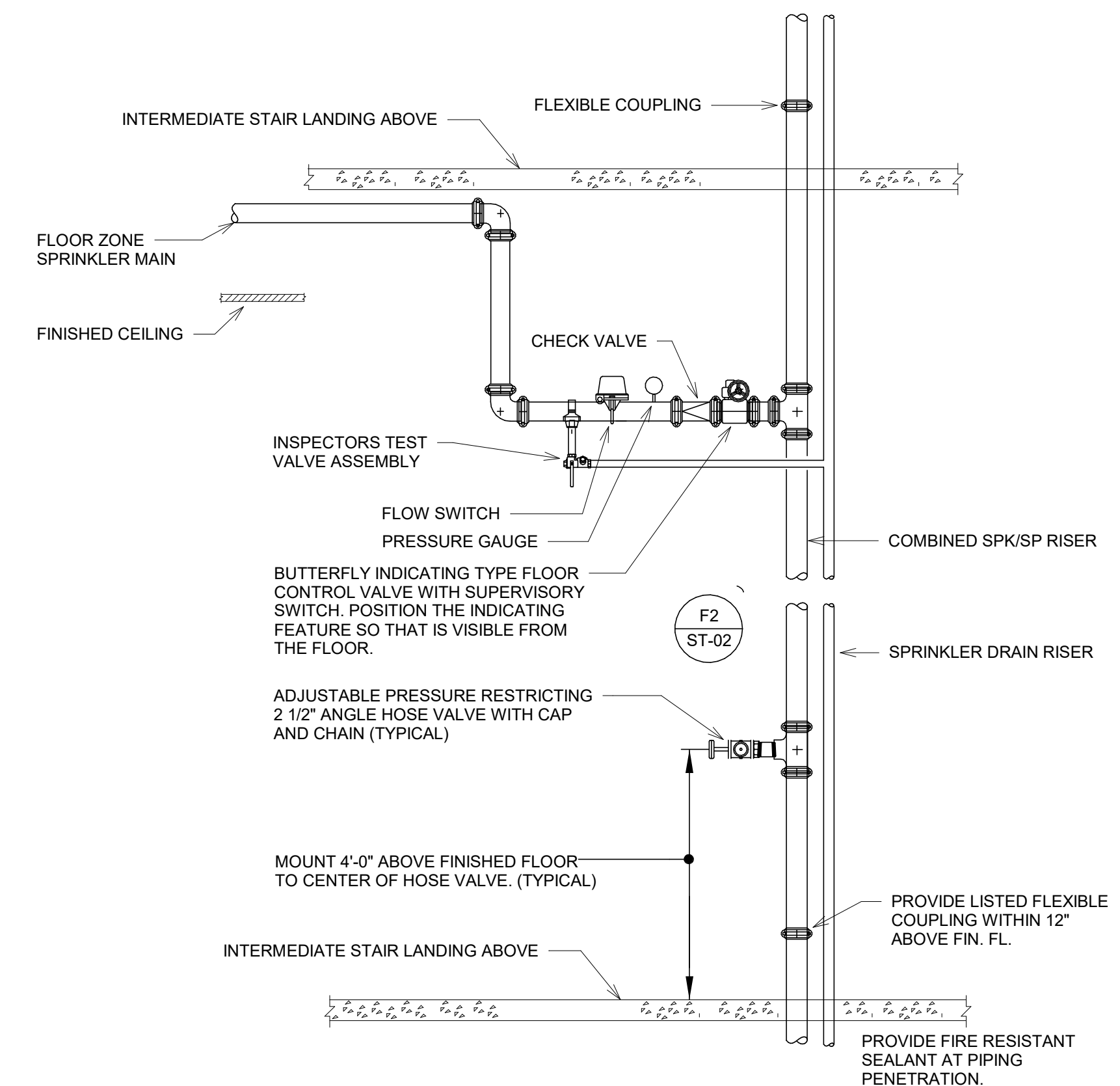
NOT TO SCALE



NOTE:
BRANCH PIPING TO PENDANT SPRINKLER HEADS SHALL NOT BE INSTALLED DIRECTLY FROM THE BOTTOM OF HORIZONTAL SPRINKLER MAIN OR BRANCH LINES. ALL CONNECTIONS TO SPRINKLER HEADS SHALL BE MADE FROM THE TOP OR SIDES OF THE SPRINKLER MAIN OR BRANCH LINES.

FLEXIBLE SPRINKLER DETAIL

NOT TO SCALE



COMBINATION SPK/SP FLOOR ZONE SPRINKLER CONTROL VALVE DETAIL

NOT TO SCALE