

FERN RIDGE MIDDLE SCHOOL

INTERIOR ALTERATIONS

**88831 TERRITORIAL HWY
ELMIRA, OR**

COMBINED CONTRACT

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APRIL 29, 2015

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Project Status
PERMIT/BID IS

COVER SHEET
FERN RIDGE MIDDLE SCHOOL
INTERIOR ALTERATIONS

0.0
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DEVISIONS

DLR Group
Architecture Planning Interiors

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ABBREVIATIONS

A/C	AIR CONDITIONING(ER)	CR	CORROSION RESISTANT	FB	FACE BRICK	IAQ	INDOOR AIR QUALITY	NC	NOISE CRITERIA	RPM	REVOLUTIONS PER MINUTE	UGE	UNDERGROUND ELECTRICAL
A/AMP	AMPERE	CS	COUNTERSINK	FC	FOOT CANDLE	IAW	IN ACCORDANCE WITH	NC	NORMALLY CLOSED	RPZ	REDUCED PRESSURE BACKFLOW PREVENTER	UGT	UNDERGROUND TELEPHONE
ALA	COMPRESSED AIR	CS	COMBINATION SEWER	FCU	FLUTED CONCRETE MASONRY UNIT	IBC	INTERNATIONAL BUILDING CODE	NC	NURSE CALL	RWL	REFRIGERANT SUCTION	UL	UNIT HEATER
AAP	AREA ALARM PANEL	CS	CONDENSER WATER SUPPLY	FCO	FLOOR CLEAN OUT	IC	INTERCOM	NEC	NATIONAL ELECTRICAL CODE	S	RAIN WATER LEADERS SENSOR	UL	UNDERWRITERS LABORATORIES
AAV	AUTOMATIC AIR VENT	CSK	COUNTERSINK	FD	FAN COIL UNIT	IE	INSIDE DIAMETER	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSN.	S	SINK	UNFIN	UNFINISHED
AB	ANCHOR BOLT	CSMU	CALCIUM SILICATE MASONRY UNIT	FD	FIRE DAMPER	IE	INVERT ELEVATION	NEUT	NEUTRAL	S	SANITARY SEWER	UNO	UNLESS NOTED OTHERWISE
ABS	ACRYLONITRILE-BUTADIENE-STYRENE	CSP	COMBINATION STANDPIPE	FD	FLOOR DRAIN	IES	ILLUMINATING ENGINEERING SOCIETY	NIC	NOT IN CONTRACT	S	SOUTH	UR	URINAL
AC	ACOUSTICAL CEILING	CSJT	CONSTRUCTION JOINT	FDC	FIRE DEPARTMENT CONNECTION	IF	INSIDE FACE	NO	NORMALLY OPEN	SA	SPRINKLER LINE	UR	UNDERGROUND RESIDENTIAL DISTRIBUTION
AC	ALTERNATING CURRENT	CSWK	CASEWORK	FDN	FOUNDATION	IG	ISOLATED GROUND	NO	NORMALLY OPEN	SA	SHOCK ABSORBER	UT	UTILITY SHELF
ACC	AIR COOLED CONDENSER	CT	COOLING TOWER	FDR	FEEDER	IH	INTAKE HOOD	NO	NITROUS OXIDE	SA	SPLIT AIR	UV	UNIT VENTILATOR
ACCU	AIR COOLED CONDENSING UNIT	CT	CERAMIC TILE	FE	FIRE EXTINGUISHER	IJ	ISOLATION JOINT	NOM	NOMINAL	SC	SECURITY	V	VENT
ACM	ALUMINUM COMPOSITE MATERIAL	CT	CURRENT TRANSFORMER	FEC	FIRE EXTINGUISHER CABINET	JS	IN JOIST SPACE	NS	NEUTRAL SENSOR	SC	SOLID CORE	V	VOLT
ACST	ACOUSTIC	CTR	CENTER	FF	FINISH FLOOR	IMC	INTERMEDIATE METAL CONDUIT	NTS	NOT TO SCALE	SC	SPECIAL COATING	V	VACUUM
AD	ACCESS DOOR	CU	COPPER	FHE	FINISH FLOOR ELEVATION	INC	INCLUDE (ING)	O&M	OPERATION AND MAINTENANCE	SC	SHOWER CURTAIN	V	VACUUM
AD	AREA DRAIN	CU	CONDENSING UNIT	FH	FIRE HYDRANT	INSUL	INSULATION	OA	OVERALL	SC	SEAT COVER DISPENSER	VA	VACUUM
ADDN	ADDITION OR ADDITIONAL	CU	CUBIC	FHC	FIRE HOSE CABINET	INT	INTERIOR	OBSC	OBSCURE	SCH	SHOWER CURTAIN HOOKS	VAV	VARIABLE AIR VOLUME
ADJT	ADJUSTABLE	CUH	COMBINATION UNIT	FIG	FIGURE	IP	IRON PIPE	OP	OPPOSITE	SCHED	SCHEDULE	VB	VAPOR BARRIER
ADMIN	ADMINISTRATION	CW	CABINET UNIT HEATER	FIN	FINISH FLOOR	JAN	JANITOR	OD	OUTSIDE DIAMETER	SCT	SHOWER CURTAIN ROD	VB	VINYL BASE
AF	AIR FILTER	CW	COLD WATER	FIK	FIXTURE	JCT	JUNCTION	OF	OVERFLOW DRAIN	SCUT	SCUTTLE	VBF	VENT BELOW FLOOR
AFF	ABOVE FINISH FLOOR	CV	CONDOM VENDOR	FL	FLOOR	JST	JOIST	OD	OUTSIDE FACE	SCW	SOFT COLD WATER	VCB	VENTED COVE BASE
AHJ	AUTHORITY HAVING JURISDICTION	CWR	CHILLED WATER RETURN	FLASH	FLASHING	JFB	JOINT FILLER BOARD	OVFL	OVERFLOW	SD	SOAP DISPENSER	VCP	VITRIFIED CLAY PIPE
AHU	AIR HANDLING UNIT	CWS	CHILLED WATER SUPPLY	FLEX	FLEXIBLE	JT	JOINT	OFC	OWNER FURNISHED CONTRACTOR INSTALLED	SD	SMOKE DAMPER	VCT	VINYL COMPOSITION TILE
AI	AREA INLET	CY	CUBIC YARD	FLOR	FLUORESCENT FLOORING	K	KITCHEN	OFF	OFFICE	SD	SMOKE DETECTOR	VD	VOLUME DAMPER - MANUAL
ALT	ALTERNATE	CYL	CYLINDER	FLM	FULL LENGTH MIRROR	KCJ	KEYED CONSTRUCTION JOINT	OHP	OVERHEAD POWER	VEL	VELOCITY	VENT	VENTILATION
ALUM	ALUMINUM	D	DRAIN	FLM	FULL LENGTH MIRROR	KD	KNOCKDOWN	OHT	OVERHEAD TELEPHONE	SE	STEAM EXHAUST VENT	VENT	VENTILATOR
AMB	AMBIENT	D	DEPTH	FM	FIRE MAIN	KH	KITCHEN HOOD	OPG	OPENING	SEC	SECONDARY	VERT	VERTICAL
ANCH	ANCHOR	D	DATA	FM	FIRE MAIN	KH	KITCHEN HOOD EXHAUST FAN	SECT	SECTION	SECT	SECTION	VEST	VESTIBULE
AP	ACCESS PANEL	DB	DRY BULB	FME	FLOW MEASURING EQUIPMENT	KO	KNOCKOUT	OSD	OVERFLOW STORM DRAIN	SECT	SECTION	VFD	VARIABLE FREQUENCY DRIVE
APC	ACOUSTICAL PANEL CEILING	DB	DECIBEL	FO	FACE OF	KP	KITCHEN PUMP	OSY	OUTSIDE SCREW AND YOKE	SECT	SECTION	VM	VOLTMETER
APPROX	APPROXIMATE	DBA	DEFORMED BAR ANCHOR	FO	FACE OF CONCRETE	KR	KITCHEN SINK	OTCS	OPEN TO CEILING SPACE	SECT	SECTION	VOL	VOLUME
AR	ACID RESISTING	DBL	DOUBLE	FOC	FACE OF CONCRETE	KV	KILOVOLT	OVHD	OVERHEAD	SFCMU	SPLIT-FACED CONCRETE MASONRY UNIT	VP	VACUUM PUMP
ARCH	ARCHITECTURAL	DC	DIRECT CURRENT	FOF	FACE OF FINISH	KVA	KILOVOLT AMPERES	P	PAINT	SFU	STRUCTURAL FACING UNIT	VSMC	VARIABLE SPEED MOTOR CONTROLLER
ASB	ASBESTOS	DC	DUST COLLECTOR	FOF	FACE OF FINISH	KVW	KILOVOLT AMPERES REACTIVE	PT	PRESSURE/TEMPERATURE TEST PORT	SH	SHOWER	VT	VINYL TILE
ASPH	ASPHALT	DCJ	DUMMY CONTROL JOINT	FOR	FACE OF MASONRY	KW	KILOWATT	PUMP	PUMP	SHM	SHEATHING	VTR	VENT THROUGH ROOF
AUTO	AUTOMATIC	d	PENNY (AS NAIL 100)	FOS	FACE OF STUD	KWH	KILOWATT HOUR	PA	PUBLIC ADDRESS	SHT	SHEET	VWC	VINYL WALLCOVERING
AV	ACID VENT	DDC	DIRECT DIGITAL CONTROL	FOS	FUEL OIL SUPPLY	L	ANGLE	PANIC B	PANIC BOLT	SHW	SHOWOFF HOT WATER	W	WATER SERVICE
AV	AIR VENT	DE	DEIONIZED WATER	FOV	FUEL OIL VENT	L	LABORATORY	PAR	PARALLEL	SHW	SHOWOFF HOT WATER	W	WIDE WIDTH
AW	AVERAGE	DEG	DEGREE	FOV	FUEL OIL VENT	LA	LABORATORY COMPRESSED AIR	PB	PARTICLE BOARD	SIM	SIMILAR	W	WASTE (PLUG)
AWG	AMERICAN WIRE GAUGE	DEPR	DEPRESS(ION)(ED)	FP	FACE OF WALL	LAB	LABORATORY	PB	PULL BOX	SL	SEALANT	W	WATT
AWP	ACOUSTICAL WALL PANEL	DEPT	DEPARTMENT	FP	FIREPROOFING	LAM	LAMINATED	PB	PUSH BUTTON	SL	SHEET METAL	W	WEST
		DET	DETECTION	FPD	FIRE PUMP DISCHARGE	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
B to B	BACK TO BACK	DET	DETECTION	FR	FEET PER MINUTE	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
BBO	BOILER BLOW OFF	DFR	DIESEL FUEL RETURN	FR	FRAME	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
BC	BALANCING COCK	DFS	DIESEL FUEL SUPPLY	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
BCMU	BURNISHED CONCRETE MASONRY UNIT	DRV	DIESEL FUEL VENT	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
BD	BOARD	DG	DOOR GRILLE	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
BD	BACK DRAFT DAMPER	DH	DUCT HEATER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
BET	BETWEEN	DI	DISTILLED WATER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
BFP	BACKFLOW PREVENTOR	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
BFR	BELOW FLOOR	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
BF	BOILER FEED	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
BFV	BUTTERFLY VALVE	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
BHP	BREAK HORSE POWER	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
BKR	BREAKER	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
BL	BUILDING LINE	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
BLDG	BUILDING	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
BLK	BLOCK	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
BLKG	BLOCKING	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
BLKHD	BULKHEAD	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
BM	BEAM	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
BM	BENCH MARK	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
BOD	BOTTOM OF DUCT	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
BOF	BOTTOM OF FOOTING	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
BOTT	BOTTOM	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
BRDS	BRIDGING	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
BRG	BEARING	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
BRKT	BRACKET	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
BSMT	BASEMENT	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
BT	BATH TUB	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
BTU	BRITISH THERMAL UNIT	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
BTUH	BRITISH THERMAL UNIT PER HOUR	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
BUR	BUILT UP ROOFING	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
BV	BALL VALVE	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
C	CONDENSER WATER	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
CA	CONDUIT	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
CAB	CABINET	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
CANT	CANTILEVER	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
CAP	CAPACITY	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
CAS	CASING	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
CBD	CHALKBOARD	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
CD	CONDENSATE DRAIN	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
CCTV	CLOSED CIRCUIT TELEVISION	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
CE	COVER ELEVATION	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
CEM	CEMENT	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
CENT	CENTRIFUGAL	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
CER	CERAMIC	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
CF	CUBIC FEET	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
CFH	CUBIC FEET PER HOUR	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
CFM	CUBIC FEET PER MINUTE	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
CG	CORNER GUARD	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
CH	CHANNEL	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
CI	CAST IRON	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
CIB	CURB INLET	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
CIP	CAST IN PLACE	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
CIP	CAST IRON PIPE	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
CIRC	CIRCULATING	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
CJ	CONTROL JOINT	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
CJA	CONTROL JOINT ABOVE	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
CK	CIRCUIT	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
CKT BK	CIRCUIT BREAKER	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
CL	CENTERLINE	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
CL	CIRCUIT LINE	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
CLG	CEILING	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
CLOS	CLOSET	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
CLR	CLEAR	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
CM	CEILING MOUNTED	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
CMP	CORRUGATED METAL PIPE	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
CMU	CONCRETE MASONRY UNIT	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
CO	CLEAN OUT	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
CO	CONDUIT ONLY	DIA	DIAMETER	FR	FIBERGLASS REINFORCED PANEL	LAV	LAVATORY	PBS	PUSH BUTTON STATION	SM	SMRINKLER MAIN	W	WIDE FLANGE
CO2	CARBON DIOXIDE												



LEVEL 01

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

RENOVATIONS SHALL NOT NEGATIVELY IMPACT OCCUPANT LOAD OR REDUCE EXITING WIDTH BELOW CURRENT LEVELS PER OSSC 2014

BUILDING CODE ANALYSIS

Applicable Codes

- 2014 Oregon Structural Specialty Code

Construction Type

Occupancy

- Education Group E (use by six or more persons at any one time for education purposes through the 12th grade)

Building Type:

- V-B Non-sprinklered

Building element fire rating requirement per table 601.5C.2014:

- Primary structural frame =0 HR
- Bearing Walls
 - Exterior =0 HR
 - Interior =0 HR
- Nonbearing walls and partitions
 - Exterior =0 HR
 - Interior =0 HR
- Floor construction and secondary members =0 HR
- Roof construction and secondary members =0 HR

Interior Finish Requirements

Per Table 903.2

- Occupancy Type E
 - Vertical enclosures and exit passageways Class B
 - Corridors Class AC
 - Rooms and enclosed spaces Class AC
- Class B: Flame spread index 26-75; smoke developed index 0-450
- Class AC: Flame spread index 76-200; smoke developed index 0-450
- Fire Protection Systems
 - Fire Alarm and Systems
 - Portable Fire Extinguishers per NFPA 10
- Rooms and corridors
 - Electrical service rooms Class A
 - Kitchen Class B
 - Class K
- Occupant Loads and Means of Egress
 - Maximum floor area allowances per occupant per table 1004.1.1

Room

- Assembly - Concentrated
- Classroom
- Shops and other vocational room areas
- Business areas
- Library - Stack area
- Kitchens, commercial
- Accessory storage areas, mechanical equipment room

Minimum egress width per 1005.1

- Stairways 0.3 inches per occupant
- Other egress components 0.2 inches per occupant

Exit access travel distance per Table 1016.1 without sprinkler system

- E Occupancies 200 ft

Floor Area in SF per Occupant

- 7 net
- 20 net
- 50 net
- 100 gross
- 100 gross
- 200 gross
- 300 gross

Corridors

- Fire-resistance = 0 HR per Table 1018.1 Exception 1 (E Occupancy where each room that is used for instruction has at least one door opening directly to the exterior and rooms for assembly purposes have at least one-half of the required means of egress doors opening directly to the exterior.)
- Corridor width per 1018.2
 - as required by 1005.1 with minimum of 44"
 - 72" minimum in Group E occupancy where the corridor has the required capacity of 100 or more
- 1018.4 Dead ends
 - Where more than one exit or exit access doorway is required, the exit access shall be arranged such that there are no dead ends in corridors
- 1018.5 Air movement in corridors
 - Corridors shall not serve as supply, return, exhaust, relief or ventilation air ducts.
 - Exception 1: Use of a corridor as a source of makeup air for exhaust systems in rooms that open directly onto such corridors, including toilet rooms, bathrooms, dressing rooms, smoking lounges and janitor closets, shall be permitted, provided that each such corridor is directly supplied with outdoor air At a rate greater than the rate of makeup air taken from the corridor.

Minimum Number of Exits

- Occupant Load (persons per story)
 - 1-500 2
 - 501-1,000 3
 - More than 1,000 4

Plumbing Fixtures
Per 2014 SC Chapter 29, Table 2902.1

Minimum number of exits (per story)

- 2
- 3
- 4

SYMBOL LEGEND

- OCCUPANCY LOAD
- ACCESSORY USE AREA (OCCUPANCY LOAD IS NOT INCLUDED IN LOADS BEYOND THIS ROOM)

- COMBINED OCCUPANT LOAD AT A GIVEN DOOR OR STAIR

- TOTAL EXIT CAPACITY OF DOOR OR STAIR (THE CAPACITY OF DOORS ARE DETERMINED AS FOLLOWS: CLEAR OPENING WIDTH IN INCHES DIVIDED BY 0.2 THE CAPACITY OF STAIRS ARE DETERMINED AS FOLLOWS: WIDTH IN INCHES DIVIDED BY 0.3)

- COMBINED OCCUPANT LOAD AT A GIVEN EXIT DOOR (SUM OF THESE EQUALS TOTAL OCCUPANT LOAD)
- TOTAL EXIT CAPACITY OF DOOR (THE CAPACITY OF DOORS ARE DETERMINED AS FOLLOWS: CLEAR OPENING WIDTH IN INCHES DIVIDED BY 0.2)

- PANIC DEVICE
- DOOR FIRE RATING

MPET MAXIMUM PATH OF EGRESS TRAVEL
NOT TO EXCEED 207

CPET COMMON PATH OF EGRESS TRAVEL
NOT TO EXCEED 75

WALL SEPARATION LEGEND

SEE SHEET CPX.X FOR SEPARATION TYPE DEFINITIONS.

2-HOUR OCCUPANCY AND SMOKE SEPARATION

1-HOUR HAZARDOUS SEPARATION

1-HOUR HAZARDOUS AND SMOKE SEPARATION

2-OS

1-H

1-HS



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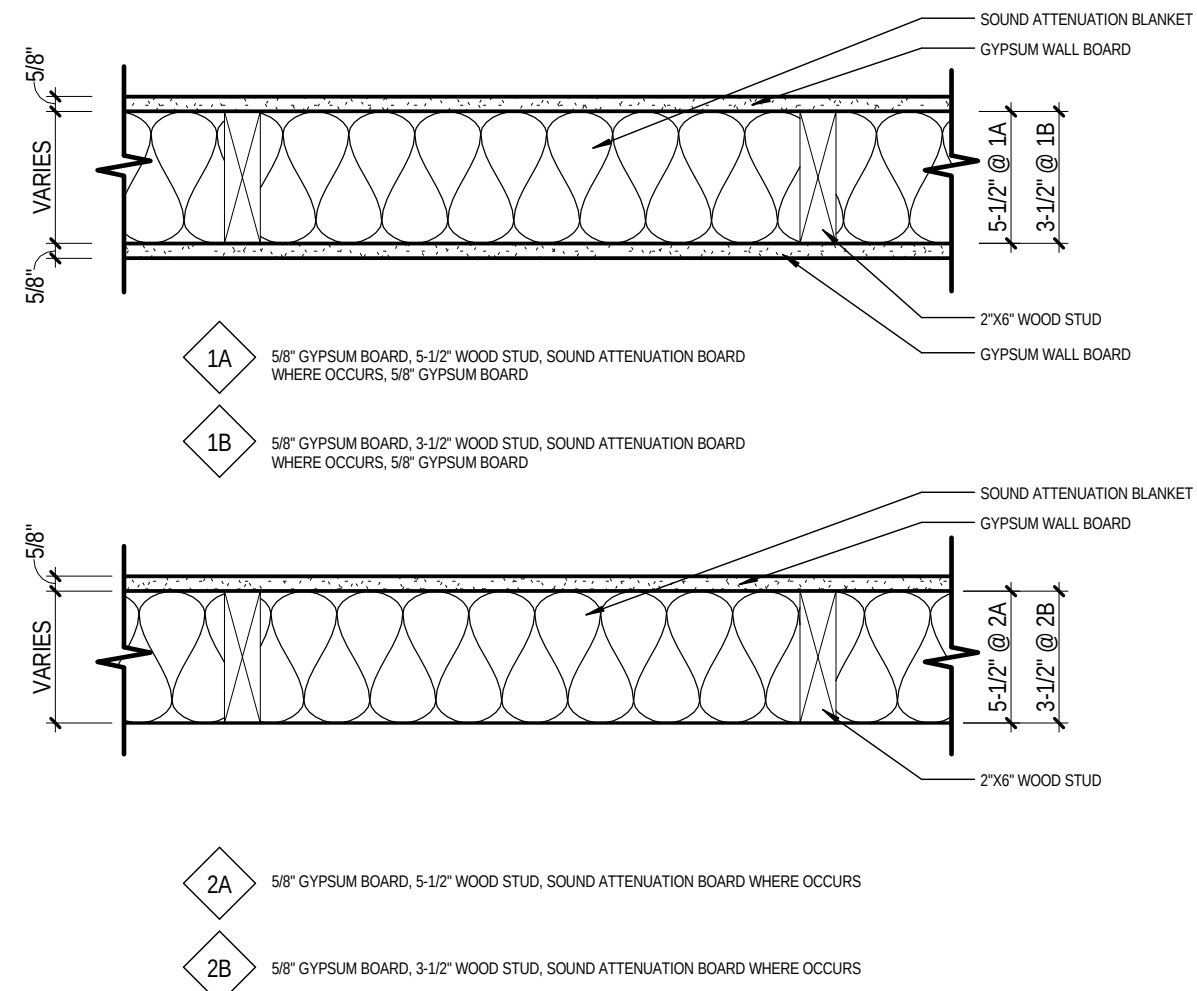
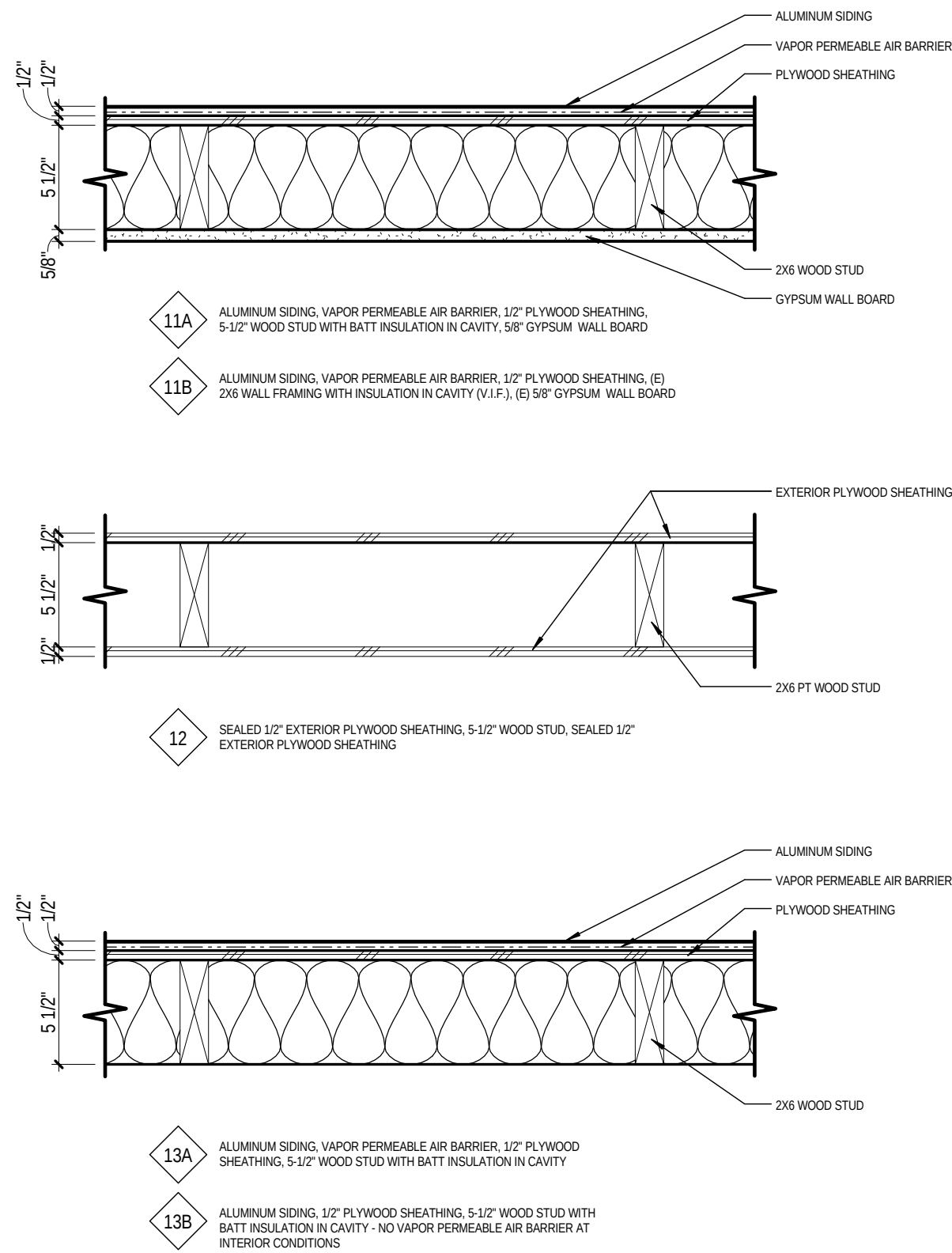
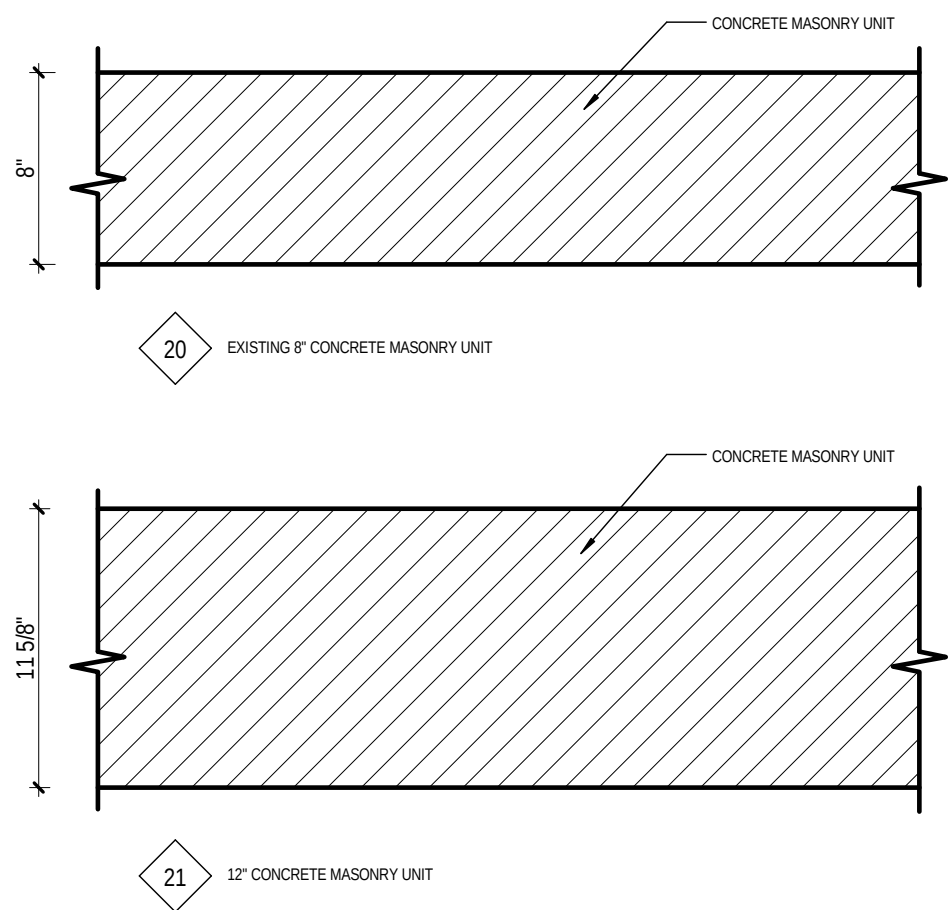
FERN RIDGE MIDDLE SCHOOL
INTERIOR ALTERATIONS

Project Status

PERMIT/BID ISSUE



WALL TYPE ASSEMBLIES



GENERAL NOTES

LEGEND NOTES ARE COMMON TO ALL
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Project Status
PERMIT/BID ISSUE

WALL ASSEMBLIES
FERN RIDGE MIDDLE SCHOOL
INTERIOR ALTERATIONS

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COLOR AND MATERIALS SCHEDULE					
SYMBOL	USE	BASIS OF DESIGN MANUF	PRODUCT NAME	COLOR / FINISH	REMARKS
ACOUSTIC CEILING PANEL					
ACP-1	ADMIN, CLASSROOM, LAB	ARMSTRONG	SCHOOL ZONE FINE FISSURED	WHITE	24" X 48"
CARPET TILE					
CPT-1	ADMIN AREA	TANDUS	LIVE WIRE 04632	SUMMER HAZE 71403	2x2 MODULAR
CPT-2	MEDIA CENTER	TANDUS	THIN LINES 04631	STONE HEARTH 71404	2x2 MODULAR
CERAMIC TILE					
CT-1	RESTROOM WALL TILE	DALTILE	SEMIGLOSS	ARCTIC WHITE	3" X 6"
CT-1A	WALL TILE HALF-ROUND	DALTILE	SEMIGLOSS	ARCTIC WHITE	1" X 6"
CT-5	FLOOR COLOR	DALTILE	SEMIGLOSS	ASHGREY P405	12" X 12"
CT-5A	WALL BASE COLOR	DALTILE	SEMIGLOSS	ASHGREY P405	6" X 12"
GROUT					
G-1	COORDINATES W/ CT-1	LATICRETE		78 STERLING SILVER	
INTERIOR FINISH CARPENTRY					
MDF	MEDIUM DENSITY FIBERBOARD WAINSCOT		MDF	TO BE STAINED PER SECTION 099300	WAINSCOT
INTERIOR PAINT					
PT-1	GENERAL WALL	BENJAMIN MOORE		MARITIME WHITE OC-5	GENERAL PROJECT COLOR
PT-2	NOT USED	NOT USED		NOT USED	NOT USED
PT-3	NOT USED	NOT USED		NOT USED	NOT USED
PT-4	NOT USED	NOT USED		NOT USED	NOT USED
PT-5	NOT USED	NOT USED		NOT USED	NOT USED
PT-6	OFFICE PAINT ACCENT	BENJAMIN MOORE		GEORGIAN GREEN HC-115	OFFICE ACCENT
PT-7	GYP BD CEILINGS	BENJAMIN MOORE		PURE WHITE OC-64	GWB CEILING
MARMOLEUM FLOORING					
MF-2	CLASSROOM / CIRCULATION	FORBO		IPANEMA 3721	ROLL GOOD
PLASTIC LAMINATE					
PLAM-1	CLASSROOM COUNTERTOPS	FORMICA		DOGBONE WHITE 5281-58	
PLAM-2	CABINETS	WILSONART		HARVEST MAPLE 7953-38	
PLAM-3	MEDIA CENTER	WILSONART		NEOWALNUT 7991-38	
PLAM-4	MEDIA CENTER	WILSONART		EBONY RECON 7997-38	
RESILIENT BASE					
RB-1	GENERAL PROJECT BASE	JOHNSONITE	WALL BASE TYPE	MOON ROCK 29	4" CONTINUOUS VINYL COIL
SOUND ABSORBING WALL UNIT					
SAW-1	CIRCULATION ACCENT	SOUND CONCEPTS	HIR-1	WHITE	SIZE INDATED ON DRAWINGS
TOILET COMPARTMENTS					
TC-1	TOILET COMPARTMENTS	BRADLEY SERIES 400	SOLID PHENOLIC	FORMICA PLATINUM 902-58	FLOOR MOUNTED OVERHEAD BRACED
WALK OFF MAT					
WOM	VESTIBULES / RECEPTION	MATS INC.	SUPER NOP 52	CHARCOAL	20" X 20" TILE SIZE

ROOM FINISH SCHEDULE											
ROOM		FLOOR FINISH	BASE FINISH	WALL				CEILING			COMMENTS
NUMBER	NAME			MATERIAL	NORTH	EAST	SOUTH	WEST	MATERIAL	FINISH	HEIGHT
193	MEDIA CENTER	CPT-2	RB-1	GYP BD/ WDW	WDW				APC-1/GYP BD	-/PT-7	SEE RCP
261	GYMNASIUM	(E) TO REMAIN	(E) TO REMAIN	GYP BD	PT-1	PT-1	PT-1	PT-1	OTS	-	-
269	STORAGE	CPT-2	RB-1	GYP BD	PT-1	PT-1	PT-1	PT-1	APC-1	-	10'-0"
270	MEETING A	CPT-2	RB-1	GYP BD/ WDW	PT-1WDW		WDW	WDW	APC-1	-	9'-0"
271	MEETING B	CPT-2	RB-1	GYP BD/ WDW	WDW	WDW	PT-1WDW/	PT-1WDW/	APC-1	-	9'-0"
272	RR	CT-5	CT-5A	GYP BD	CT-1/PT-1	CT-1/PT-1	CT-1/PT-1	CT-1/PT-1	GYP BD	PT-7	8'-6"
273	RR	CT-5	CT-5A	GYP BD	CT-1/PT-1	CT-1/PT-1	CT-1/PT-1	CT-1/PT-1	GYP BD	PT-7	8'-6"
274	BREAK ROOM	MF-2	RB-1	GYP BD	PT-1	PT-1	PT-1	PT-1	APC-1	-	10'-0"
275	OFFICE 3	CPT-1	RB-1	GYP BD	PT-1	PT-1	PT-1	PT-1	APC-1	-	8'-6"
276	CONFERENCE	CPT-1	RB-1	GYP BD	PT-1	PT-1	PT-1	PT-1	APC-1	-	10'-0"
277	CIRCULATION	MF-2	RB-1	GYP BD	PT-1	PT-1	PT-1	PT-1	APC-1	-	(E)
278	HEALTH	MF-2	RB-1	GYP BD	PT-1	PT-1	PT-1	PT-1	APC-1	-	10'-0"
279	TRIAGE	CT-5	CT-5A	GYP BD	CT-1/PT-1	CT-1/PT-1	CT-1/PT-1	CT-1/PT-1	GYP BD	PT-7	8'-6"
280	RECEPTION/ WORK AREA	CPT12/WOM	RB-1	GYP BD/ WDW	PT-1	PT-1	PT-1	WDW/PT-1	APC-1	-	10'-0"
281	WORKROOM	MF-2	RB-1	GYP BD	PT-1	PT-1	PT-1	PT-1	APC-1	-	8'-6"
283	SECURE STORAGE	MF-2	RB-1	GYP BD	PT-1	PT-1	PT-1	PT-1	GYP BD	PT-7	8'-6"
284	OFFICE 2	CPT-1	RB-1	GYP BD	PT-1	PT-1	PT-1	PT-1	APC-1	-	8'-6"
285	OFFICE 1	CPT-1	RB-1	GYP BD	PT-1	PT-1	PT-1	PT-1	APC-1	-	8'-6"
286	TECH LAB	MF-2	RB-1	GYP BD	PT-1	PT-1	PT-1	PT-1	APC-1	-	8'-0"
287	STUDENT STORE	MF-2	RB-1	GYP BD	PT-1	PT-1	PT-1	PT-1	APC-1	-	8'-0"
288	STORAGE	CONC	WD	GYP BD	PT-1	PT-1	PT-1	PT-1	OTS	-	-
289	COMPUTER	MF-2	RB-1	GYP BD	PT-1	PT-1	PT-1	PT-1	APC-1	-	8'-0"
290	CLASSROOM	MF-2	RB-1	GYP BD	PT-1	PT-1	PT-1	PT-1	APC-1	-	8'-0"
291	CIRCULATION	MF-2	RB-1	GYP BD	PT-1	PT-1	PT-1	PT-1	APC-1	-	10'-0"
292	IDF	CONC	WD	GYP BD	PT-1	PT-1	PT-1	PT-1	OTS	-	-
293	ELL/SPEECH	MF-2	RB-1	GYP BD	PT-1	PT-1	PT-1	PT-1	(E) APC-1	-	(E)
294	SP ED	MF-2	RB-1	GYP BD	PT-1	PT-1	PT-1	PT-1	(E) APC-1	-	(E)
295	ENTRY VESTIBULE	WOM	RB-1	GYP BD/ WDW	PT-1	PT-1	MWB	PT-1	GYP BD	PT-7	10'-0"
298	MDF	(E) TO REMAIN	RB-1	(E) GYP BD	PT-1	PT-1	PT-1	PT-1	APC-1	-	10'-0"
299	STORAGE	CONC	WD	(E) GYP BD	PT-1	PT-1	PT-1	PT-1	OTS	-	-

GENERAL NOTES

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Project Status

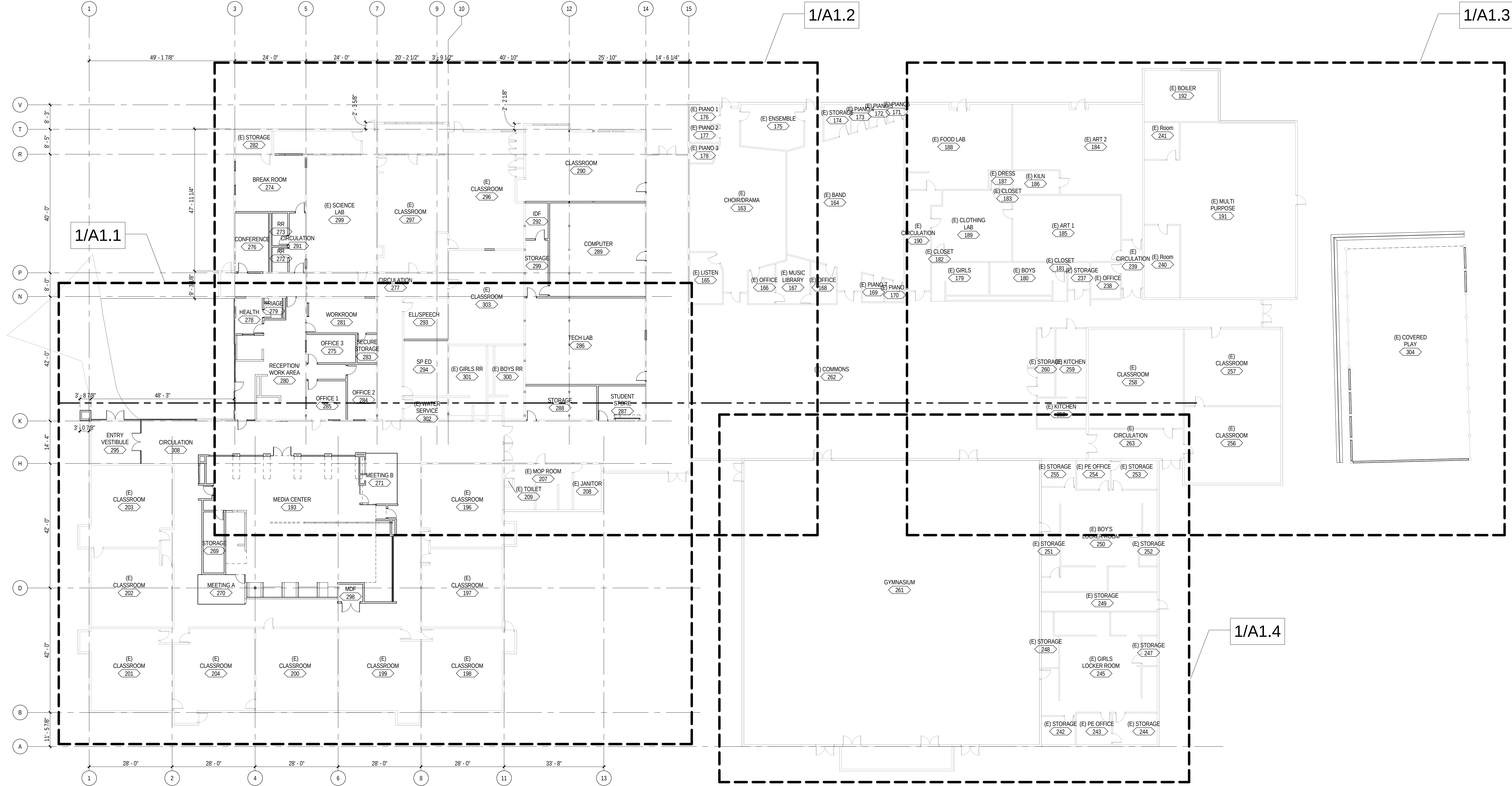
ROOM FINISH SCHEDULE
FERN RIDGE MIDDLE SCHOOL
INTERIOR ALTERATIONS

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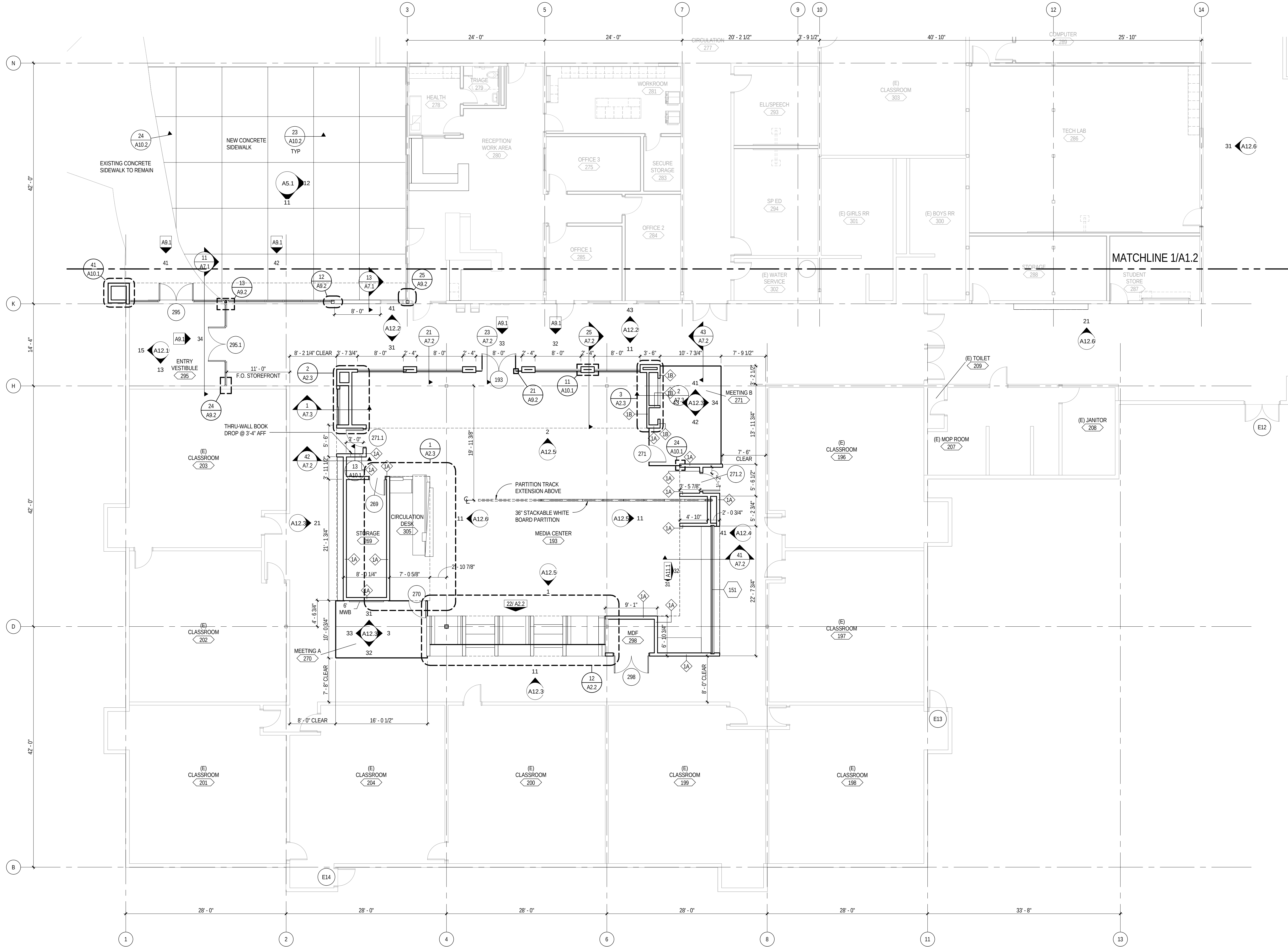
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1 FLOOR PLAN, FIRST LEVEL - OVERALL
SCALE: 1/16" = 1'-0"



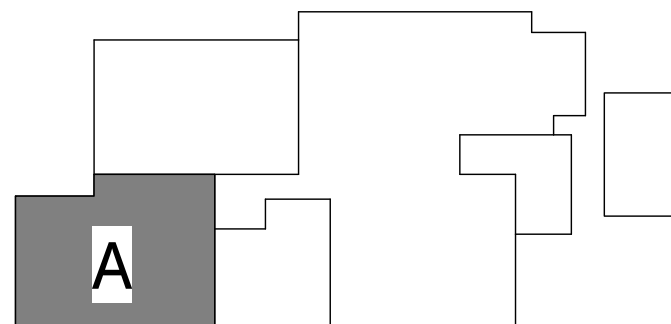
1 FLOOR PLAN, FIRST LEVEL - AREA A
A1.1 SCALE: 1/8" = 1'-0"

GENERAL NOTES

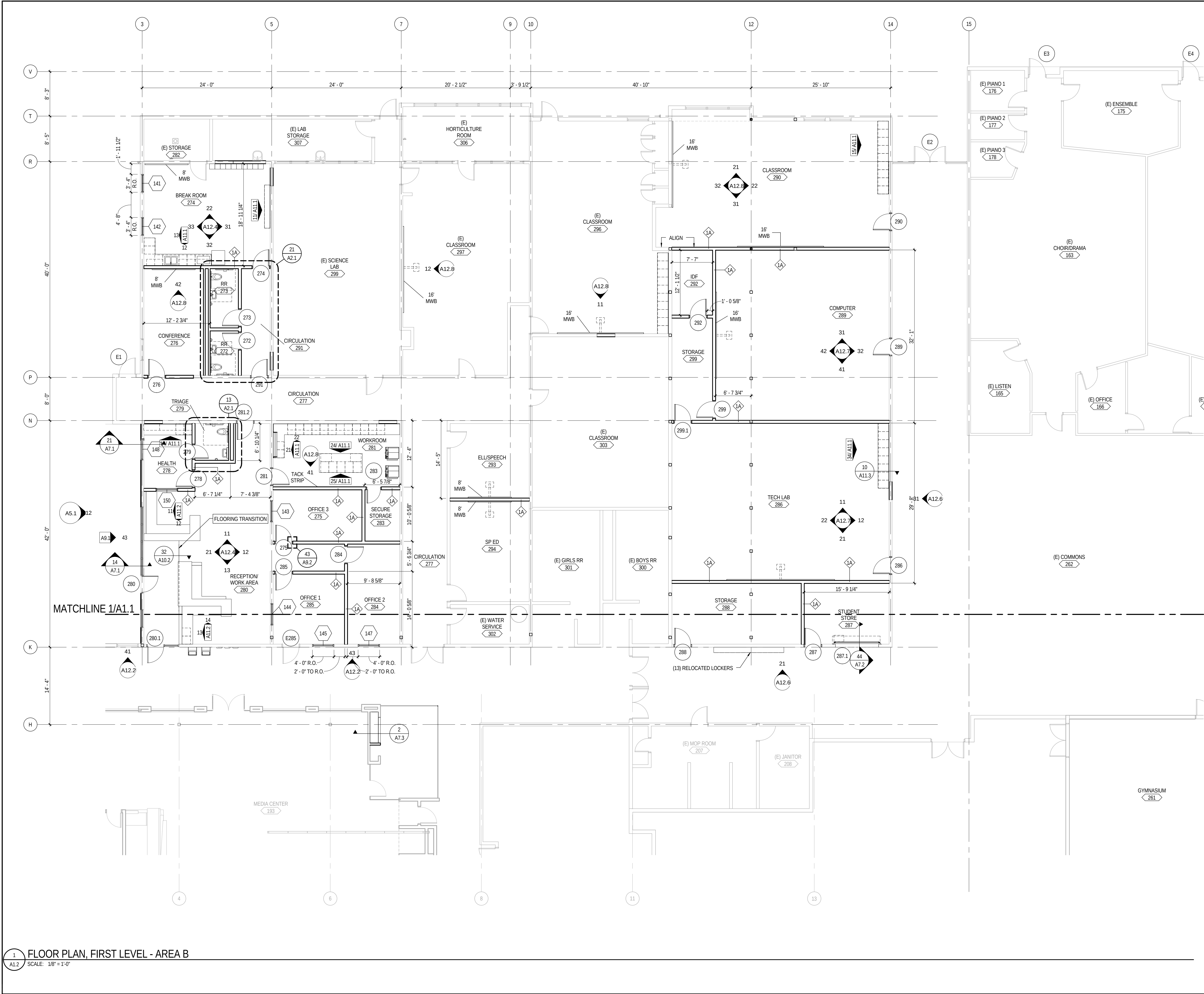
FLOOR PLAN SHEET NOTES:

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- DIMENSIONS FOR DOORS, WINDOWS AND HM FRAMES ARE SHOWN ACTUAL. ADD TO ROUGH OPENINGS. 1/4 INCH MIN FOR SHIMMING AND SEALANT.
- ANY NEW WALL LOCATED USING A DIMENSIONAL RELATIONSHIP TO AN EXISTING WALL IS MEASURED FROM FACE OF EXISTING WALL TO FACE OF NEW STUD UNLESS OTHERWISE NOTED.
- FLOOR SPOT ELEVATIONS ARE SHOWN AS FF ± 100'-0"
- PLAN SYMBOL <◇> INDICATES INTERIOR PARTITION TYPE.
- SCRIBE GYPSUM BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF STRUCTURE ABOVE. SEAL TIGHTLY AROUND ANY PENETRATIONS.
- LOCATE GWB CONTROL JOINTS AS OUTLINED IN THE SPECIFICATIONS UNLESS SHOWN OTHERWISE ON THE DRAWINGS.
- ADDITIONALLY, AT TV OUTLETS, GENERAL CONTRACTOR SHALL PROVIDE 2x8 CONTINUOUS WOOD BLOCKING ORIENTED VERTICALLY BOTH SIDES AND ABOVE, FOR FUTURE WALL MOUNTED TV BRACKET.
- REFER TO ROOM FINISH SCHEDULE ON SHEET A0.3 FOR CEILING WALL TRIM BASE AND FLOOR INFORMATION NOT DOCUMENTED ELSEWHERE. NOTE: RESILIENT BASE SHALL EXTEND AROUND CASEWORK AND MILLWORK.
- THE CONTRACTOR SHALL INCLUDE ALL OWNER FURNISHED ITEMS IN THE CONSTRUCTION SCHEDULE, AND SHALL COORDINATE WITH THE OWNER TO ACCOMMODATE THESE ITEMS. THE OWNER SHALL BE RESPONSIBLE FOR PROVIDING THE CONTRACTOR WITH ROUGH-IN INFORMATION NECESSARY TO ACCOMMODATE THE INSTALLATION OF OWNER-FURNISHED ITEMS.
- TACKWALLS AND ACOUSTICAL WALL PANELS SHALL BE INSTALLED BEFORE THE INSTALLATION OF ANY CASEWORK OR MILLWORK. THE GENERAL CONTRACTOR SHALL COORDINATE CUT-OUTS FOR CASEWORK, MILLWORK OR OTHER EQUIPMENT AS REQUIRED.
- NOT USED
- DEFERRED SUBMITTALS SHALL BE REVIEWED BY THE ENGINEER OR ARCHITECT OF RECORD WHO SHALL FORWARD THEM TO THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT THE DOCUMENTS HAVE BEEN REVIEWED AND APPROVED TO BE IN CONFORMANCE WITH THE DESIGN OF THE BUILDING AS REQUIRED PER IBC SECTION 106.3. SUCH SUBMITTALS INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:
 - STRUCTURAL STEEL
- WHERE NOT NOTED OR DIMENSIONED, HOLLOW METAL FRAMES AT INSIDE CORNERS OF INTERSECTING WALLS ARE LOCATED 2" MINIMUM FROM FACE OF INTERSECTING STUD WALL TO THE EDGE OF THE JAMB.
- DOOR TAGS CALLED OUT FOR EXISTING DOORS TO HAVE MODIFIED HARDWARE.

KEY PLAN



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1 FLOOR PLAN, FIRST LEVEL - AREA B
A1.2 SCALE: 1/8" = 1'-0"

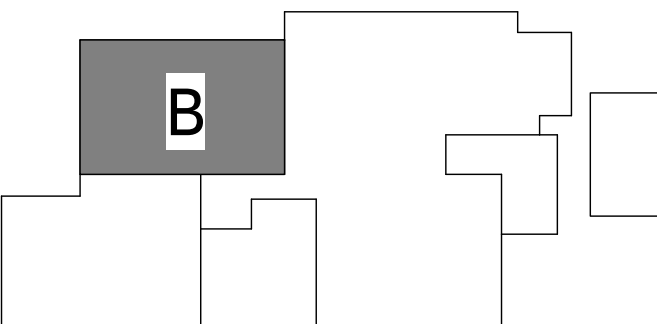
GENERAL NOTES

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- DOOR TAGS CALLED OUT FOR EXISTING DOORS TO HAVE MODIFIED HARDWARE.

KEY PLAN



REGISTERED ARCHITECT
LEVI M. PATTERSON
PORTLAND, OR
STATE OF OREGON

Project Status
PERMIT/BD ISSUE

FLOOR PLAN, FIRST LEVEL - AREA B
FERN RIDGE MIDDLE SCHOOL
INTERIOR ALTERATIONS

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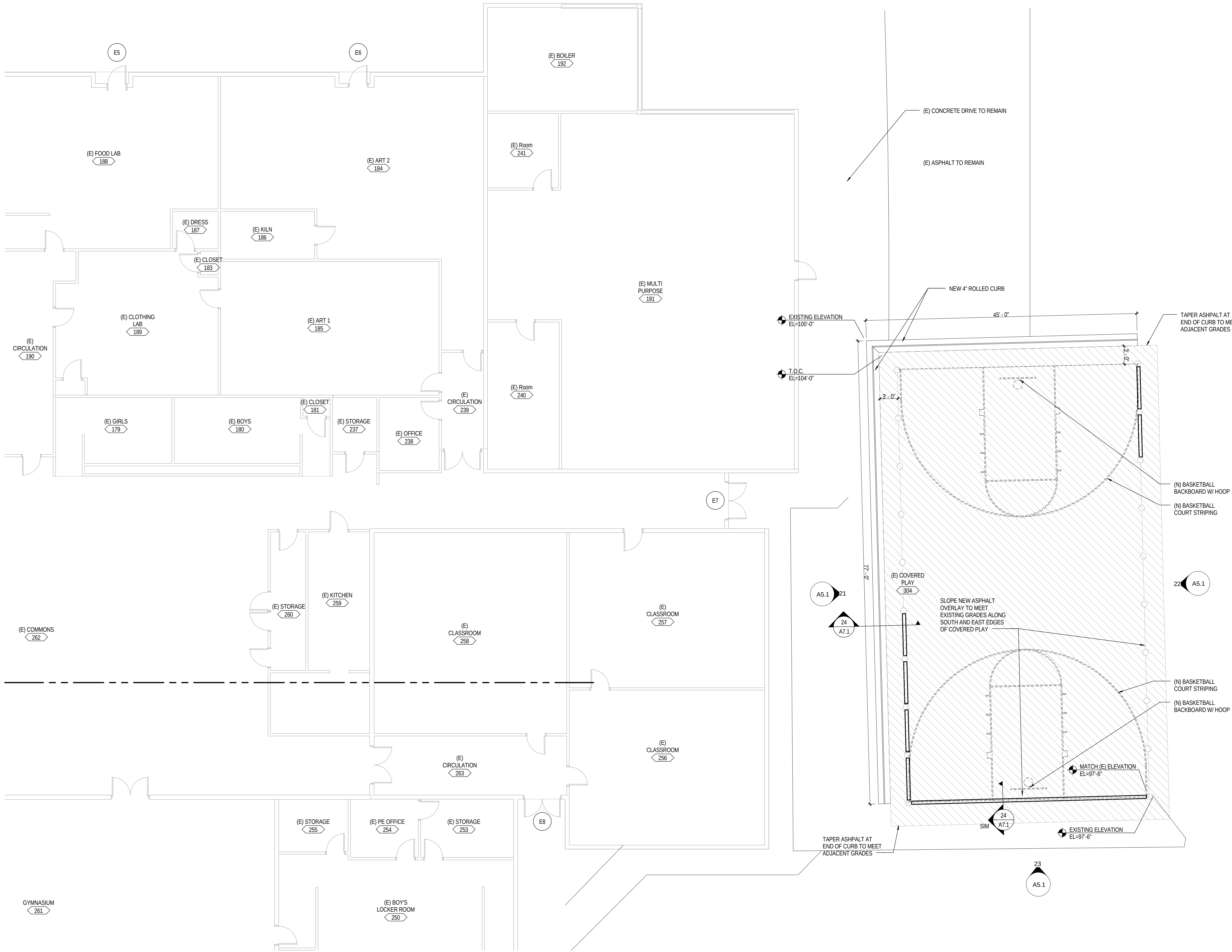
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FLOOR PLAN, FIRST LEVEL - AREA C

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



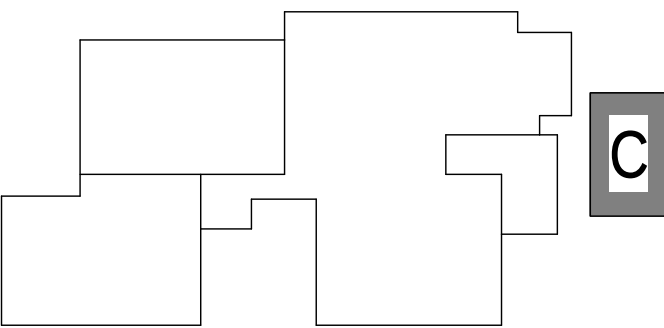
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4. FLOOR SPOT ELEVATIONS ARE SHOWN AS FF = 100'-0"
5. PLAN SYMBOL  INDICATES INTERIOR PARTITION TYPE.
7. SCRIBE GYPSUM BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF STRUCTURE ABOVE. SEAL TIGHTLY AROUND ANY PENETRATIONS.
8. LOCATE GWB CONTROL JOINTS AS OUTLINED IN THE SPECIFICATIONS UNLESS SHOWN OTHERWISE ON THE DRAWINGS.
9. ADDITIONALLY, AT TV OUTLETS, GENERAL CONTRACTOR SHALL PROVIDE 2x6 CONTINUOUS WOOD BLOCKING ORIENTED VERTICALLY BOTH SIDES AND ABOVE, FOR FUTURE WALL MOUNTED TV BRACKET.
10. REFER TO ROOM FINISH SCHEDULE ON SHEET A0.3 FOR CEILING WALL TRIM BASE AND FLOOR INFORMATION NOT DOCUMENTED ELSEWHERE. NOTE: RESILIENT BASE SHALL EXTEND AROUND CASEWORK AND MILLWORK.
11. THE CONTRACTOR SHALL INCLUDE ALL OWNER FURNISHED ITEMS IN THE CONSTRUCTION SCHEDULE, AND SHALL COORDINATE WITH THE OWNER TO ACCOMMODATE THESE ITEMS. THE OWNER SHALL BE RESPONSIBLE FOR PROVIDING THE CONTRACTOR WITH ROUGH-IN INFORMATION NECESSARY TO ACCOMMODATE THE INSTALLATION OF OWNER-FURNISHED ITEMS.
12. TACKWALLS AND ACOUSTICAL WALL PANELS SHALL BE INSTALLED BEFORE THE INSTALLATION OF ANY CASEWORK OR MILLWORK. THE GENERAL CONTRACTOR SHALL COORDINATE CUT-OUTS FOR CASEWORK, MILLWORK OR OTHER EQUIPMENT AS REQUIRED.
13. NOT USED
14. DEFERRED SUBMITTALS SHALL BE REVIEWED BY THE ENGINEER OR ARCHITECT OF RECORD WHO SHALL FORWARD THEM TO THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT THE DOCUMENTS HAVE BEEN REVIEWED AND APPROVED TO BE IN CONFORMANCE WITH THE DESIGN OF THE BUILDING AS REQUIRED PER IBC SECTION 106.3. SUCH SUBMITTALS INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:
 1. STRUCTURAL STEEL
15. WHERE NOT NOTED OR DIMENSIONED, HOLLOW METAL FRAMES AT INSIDE CORNERS OF INTERSECTING WALLS ARE LOCATED 2" MINIMUM FROM FACE OF INTERSECTING STUD WALL TO THE EDGE OF THE JAMB.
16. DOOR TAGS CALLED OUT FOR EXISTING DOORS TO HAVE MODIFIED HARDWARE.

KEY PLAN

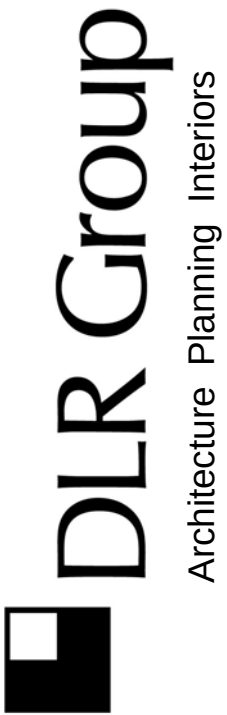


Project Status
PERMIT/BID ISSUE

FLOOR PLAN, FIRST LEVEL - AREA C
FERN RIDGE MIDDLE SCHOOL
INTERIOR ALTERATIONS

A1.3

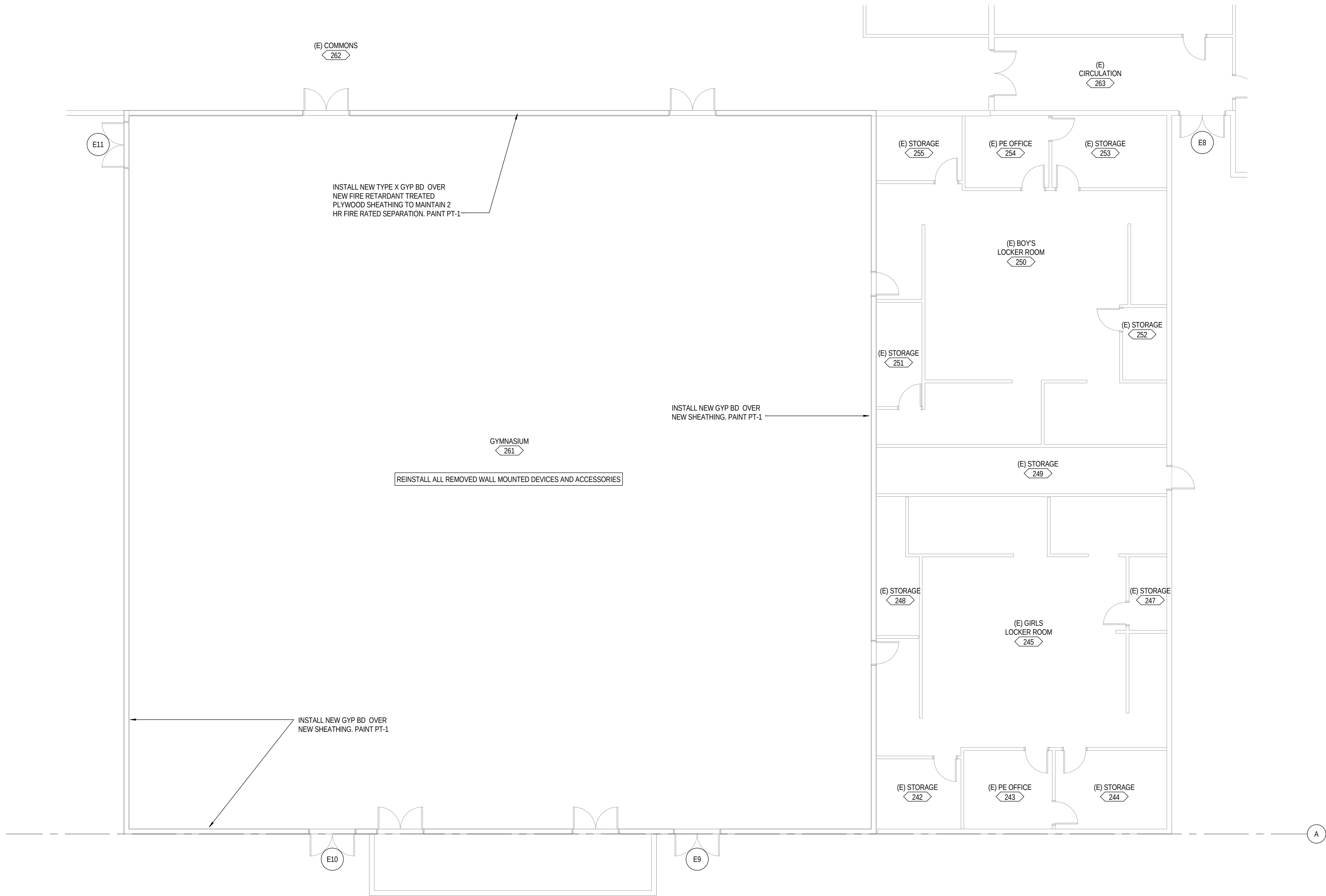
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1
A1.4 FLOOR PLAN, FIRST LEVEL - AREA D
SCALE: 1/8" = 1'-0"



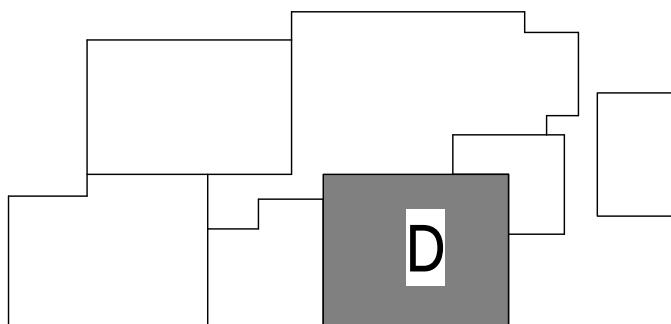
GENERAL NOTES

LEGEND NOTES ARE COMMON TO ALL
SOME NOTES MAY NOT APPLY TO THIS SHEET

FLOOR PLAN SHEET NOTES:

- GENERAL NOTES APPLY TO ALL DRAWINGS AND PROJECT MANUAL.
- DIMENSIONS FOR DOORS, WINDOWS AND HM FRAMES ARE SHOWN ACTUAL. ADD TO ROUGH OPENINGS, 1/4 INCH MIN FOR SHIMMING AND SEALANT.
- ANY NEW WALL LOCATED USING A DIMENSIONAL RELATIONSHIP TO AN EXISTING WALL IS MEASURED FROM FACE OF EXISTING WALL TO FACE OF NEW STUD UNLESS OTHERWISE NOTED.
- FLOOR SPOT ELEVATIONS ARE SHOWN AS FF = 100'-0"
- PLAN SYMBOL ◇ INDICATES INTERIOR PARTITION TYPE.
- SCRIBE GYPSUM BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF STRUCTURE ABOVE. SEAL TIGHTLY AROUND ANY PENETRATIONS.
- LOCATE GWB CONTROL JOINTS AS OUTLINED IN THE SPECIFICATIONS UNLESS SHOWN OTHERWISE ON THE DRAWINGS.
- ADDITIONALLY, AT TV OUTLETS, GENERAL CONTRACTOR SHALL PROVIDE 2x8 CONTINUOUS WOOD BLOCKING ORIENTED VERTICALLY BOTH SIDES AND ABOVE, FOR FUTURE WALL MOUNTED TV BRACKET.
- REFER TO ROOM FINISH SCHEDULE ON SHEET A0.3 FOR CEILING WALL TRIM BASE AND FLOOR INFORMATION NOT DOCUMENTED ELSEWHERE. NOTE: RESILIENT BASE SHALL EXTEND AROUND CASEWORK AND MILLWORK.
- THE CONTRACTOR SHALL INCLUDE ALL OWNER FURNISHED ITEMS IN THE CONSTRUCTION SCHEDULE AND SHALL COORDINATE WITH THE OWNER TO ACCOMMODATE THESE ITEMS. THE OWNER SHALL BE RESPONSIBLE FOR PROVIDING THE CONTRACTOR WITH ROUGH-IN INFORMATION NECESSARY TO ACCOMMODATE THE INSTALLATION OF OWNER-FURNISHED ITEMS.
- TACKWALLS AND ACOUSTICAL WALL PANELS SHALL BE INSTALLED BEFORE THE INSTALLATION OF ANY CASEWORK OR MILLWORK. THE GENERAL CONTRACTOR SHALL COORDINATE CUT-OUTS FOR CASEWORK, MILLWORK OR OTHER EQUIPMENT AS REQUIRED.
- NOT USED
- DEFERRED SUBMITTALS SHALL BE REVIEWED BY THE ENGINEER OR ARCHITECT OF RECORD WHO SHALL FORWARD THEM TO THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT THE DOCUMENTS HAVE BEEN REVIEWED AND APPROVED TO BE IN CONFORMANCE WITH THE DESIGN OF THE BUILDING AS REQUIRED PER IBC SECTION 106.3. SUCH SUBMITTALS INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:
 - STRUCTURAL STEEL
- WHERE NOT NOTED OR DIMENSIONED, HOLLOW METAL FRAMES AT INSIDE CORNERS OF INTERSECTING WALLS ARE LOCATED 2" MINIMUM FROM FACE OF INTERSECTING STUD WALL TO THE EDGE OF THE JAMB.
- DOOR TAGS CALLED OUT FOR EXISTING DOORS TO HAVE MODIFIED HARDWARE.

KEY PLAN



FLOOR PLAN, FIRST FLOOR - AREA D FERN RIDGE MIDDLE SCHOOL INTERIOR ALTERATIONS

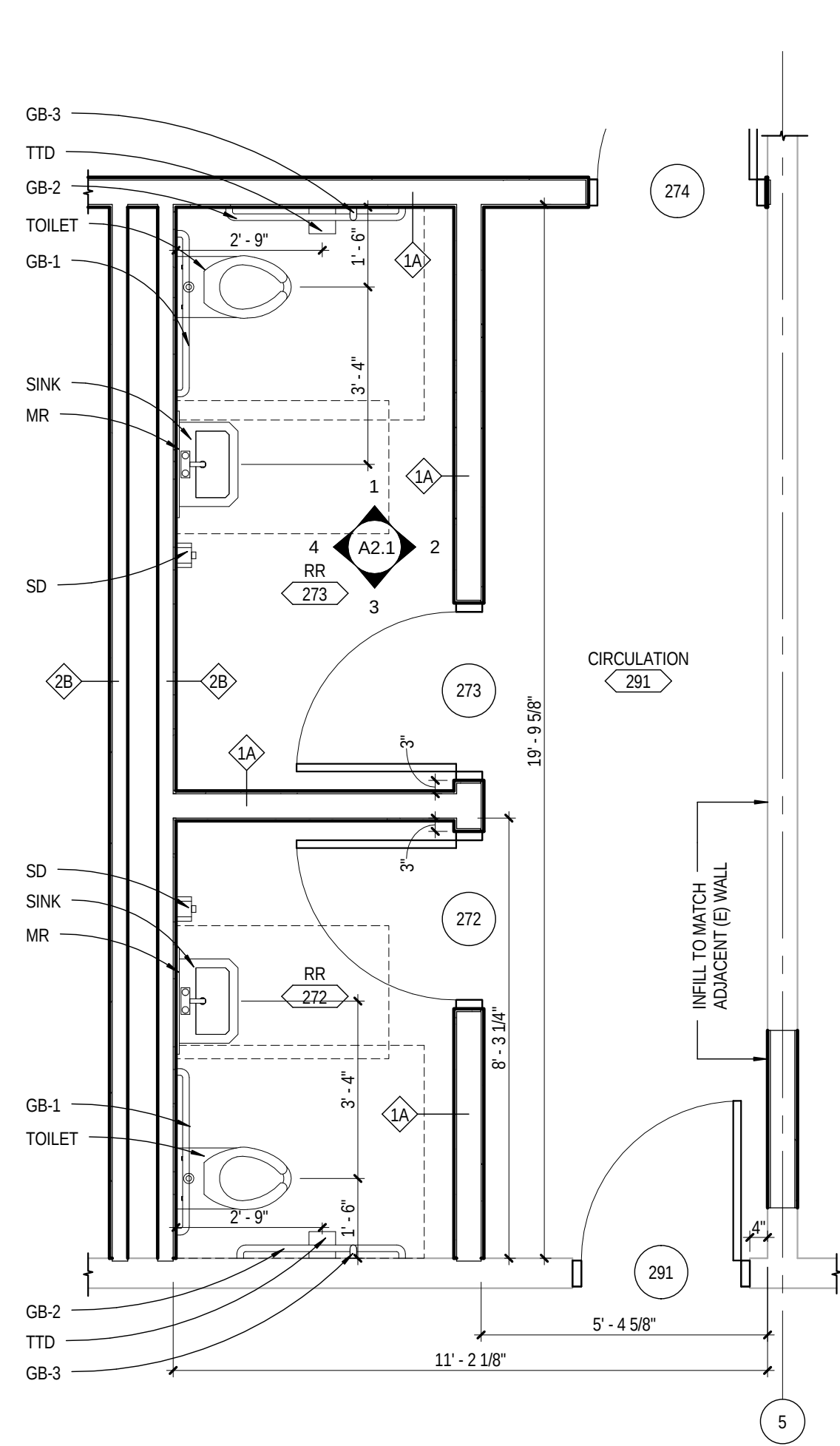
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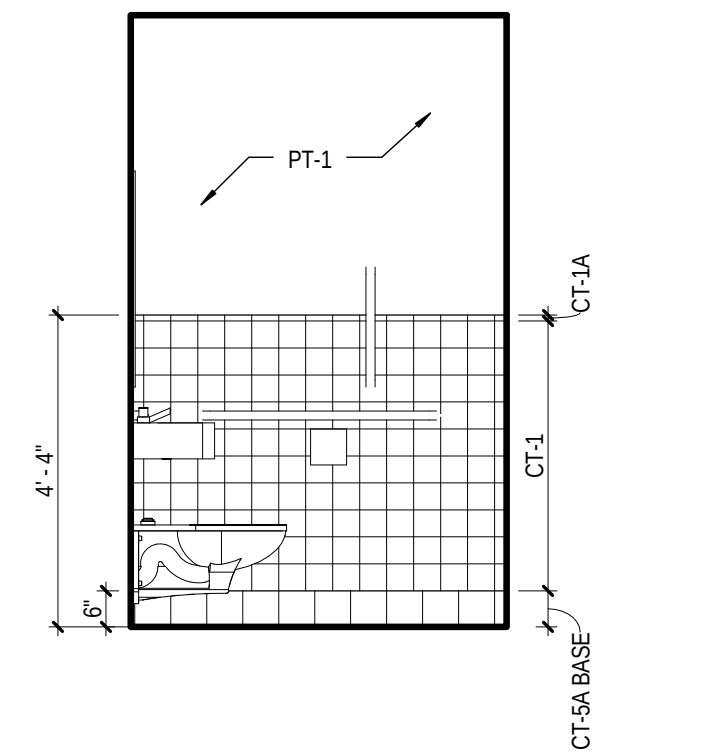
Project Status
PERMIT/BID ISSUE



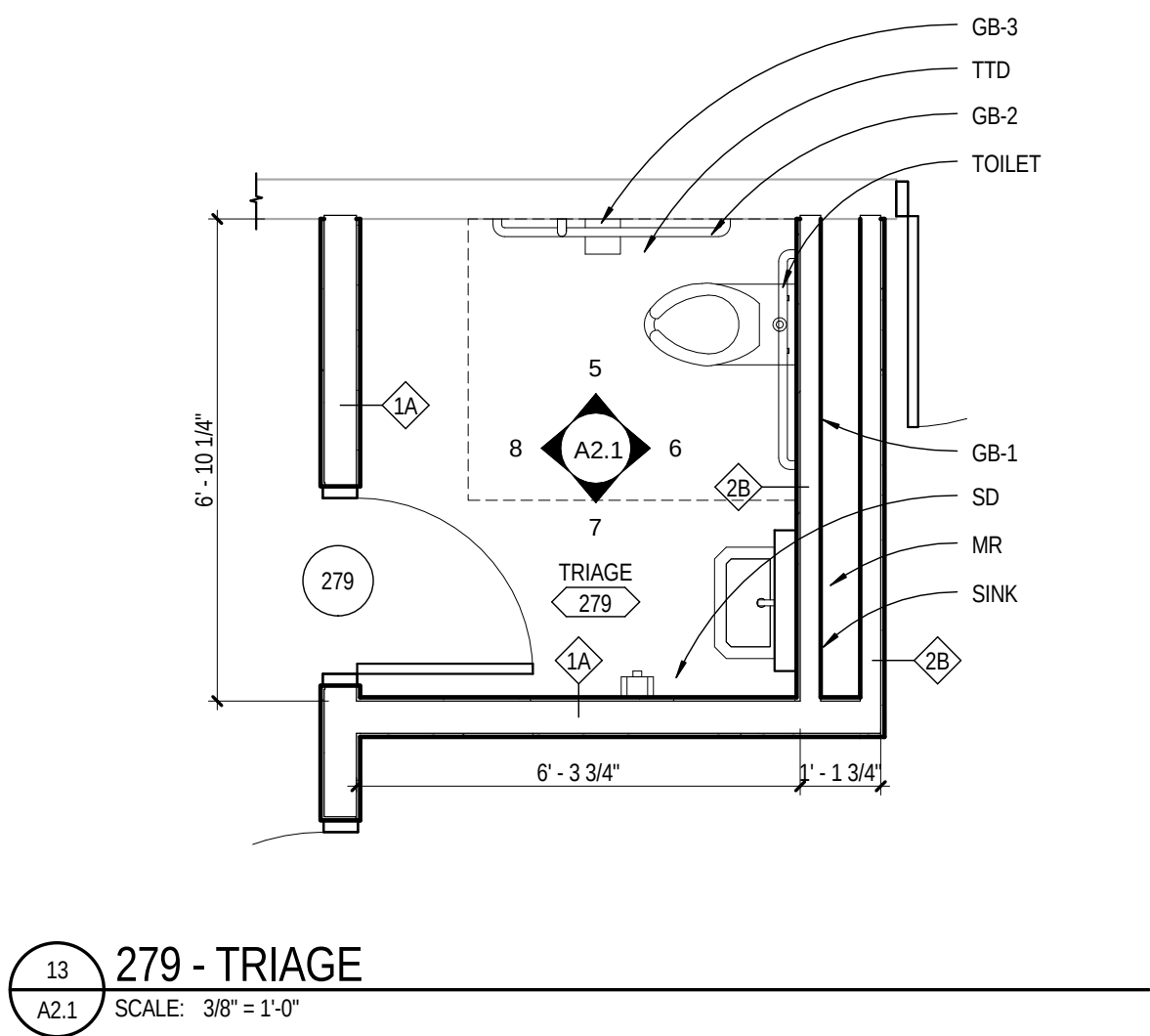
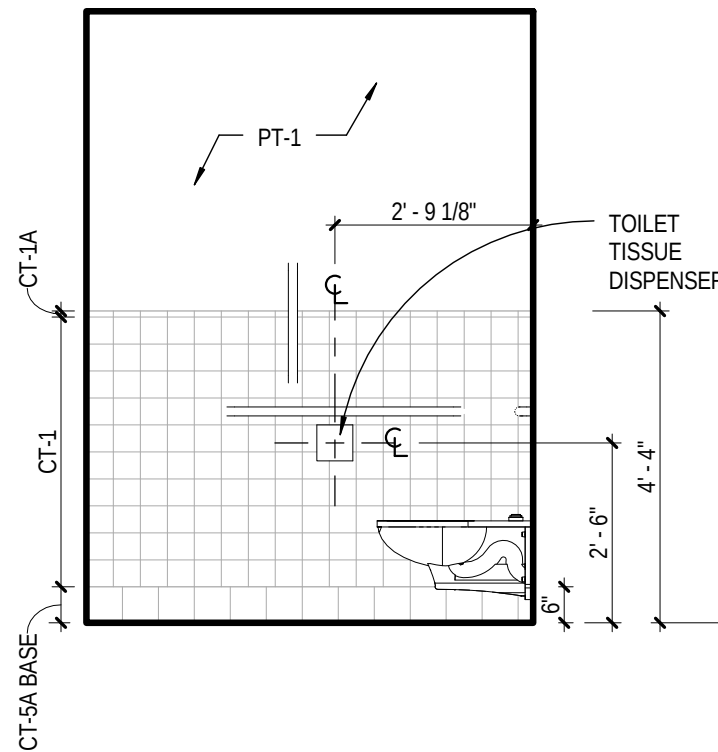


21 272 / 273 - RESTROOMS
A2.1 SCALE: 3/8" = 1'-0"

1 273 - NORTH
A2.1 SCALE: 3/8" = 1'-0"

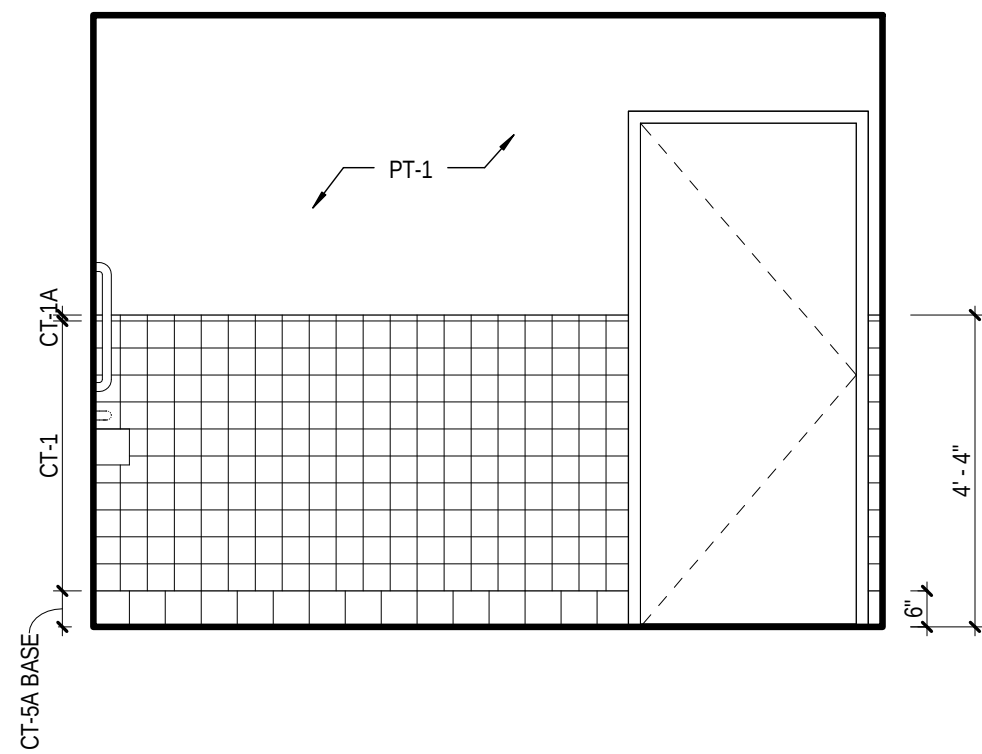


5 279 TRIAGE - NORTH
A2.1 SCALE: 3/8" = 1'-0"

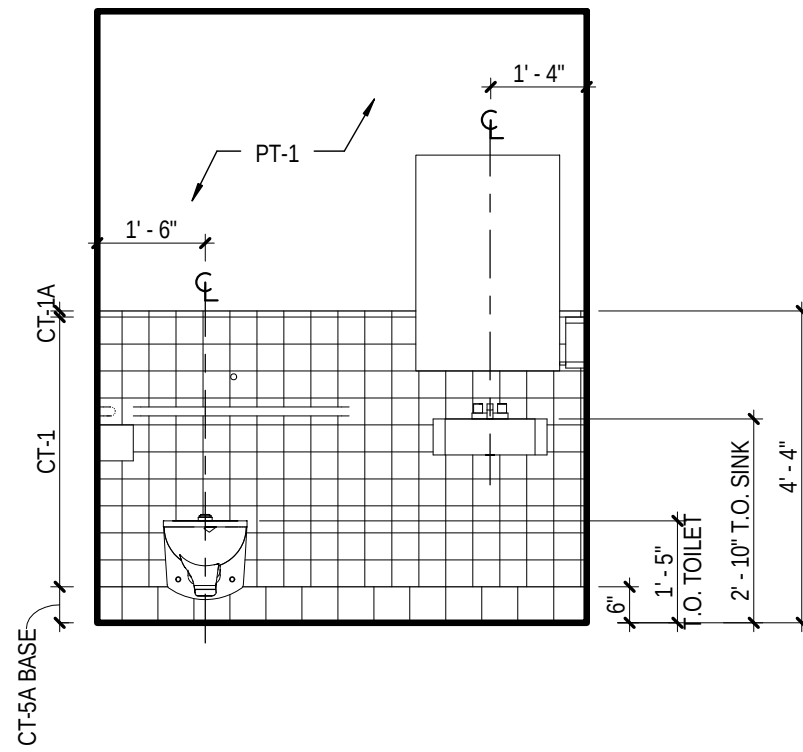


13 279 - TRIAGE
A2.1 SCALE: 3/8" = 1'-0"

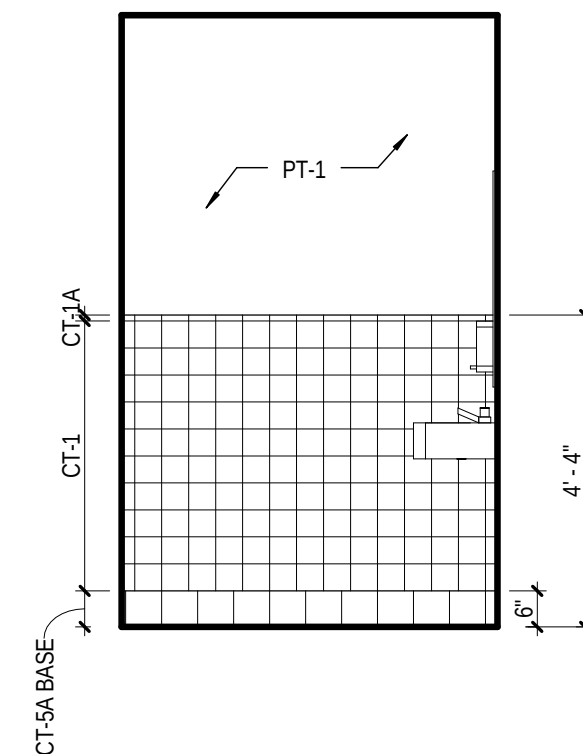
2 273 - EAST
A2.1 SCALE: 3/8" = 1'-0"



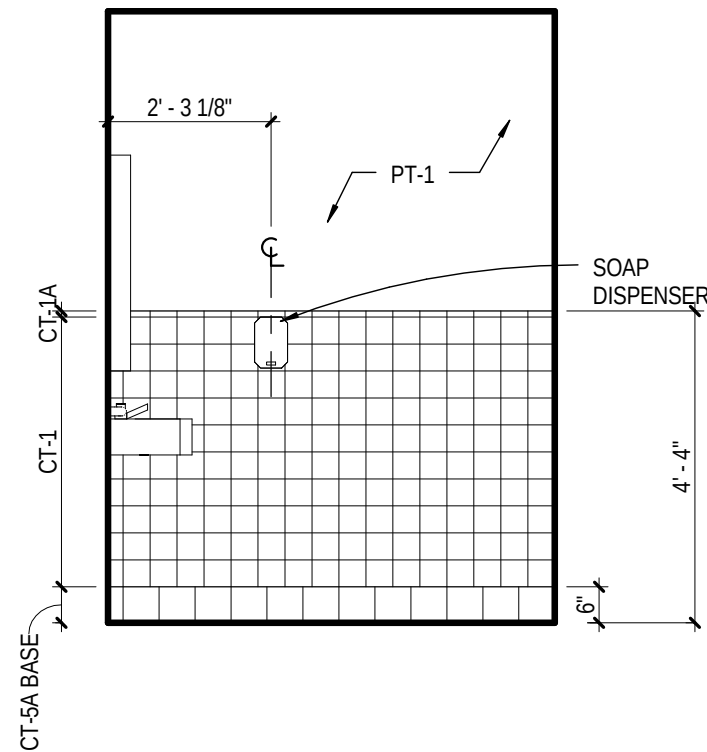
6 279 TRIAGE - EAST
A2.1 SCALE: 3/8" = 1'-0"



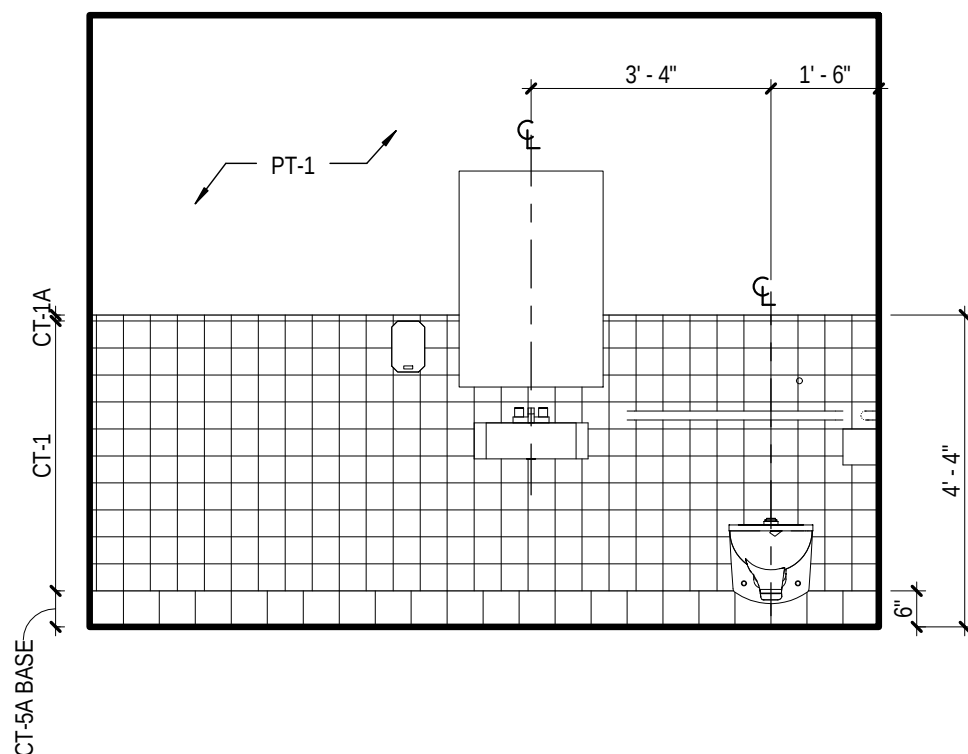
3 273 - SOUTH
A2.1 SCALE: 3/8" = 1'-0"



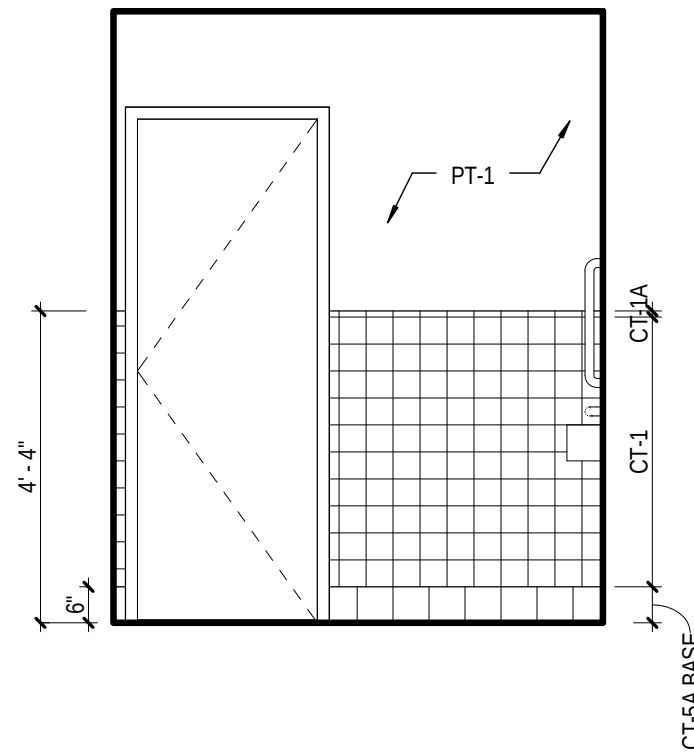
7 279 TRIAGE - SOUTH
A2.1 SCALE: 3/8" = 1'-0"



4 273 - WEST
A2.1 SCALE: 3/8" = 1'-0"

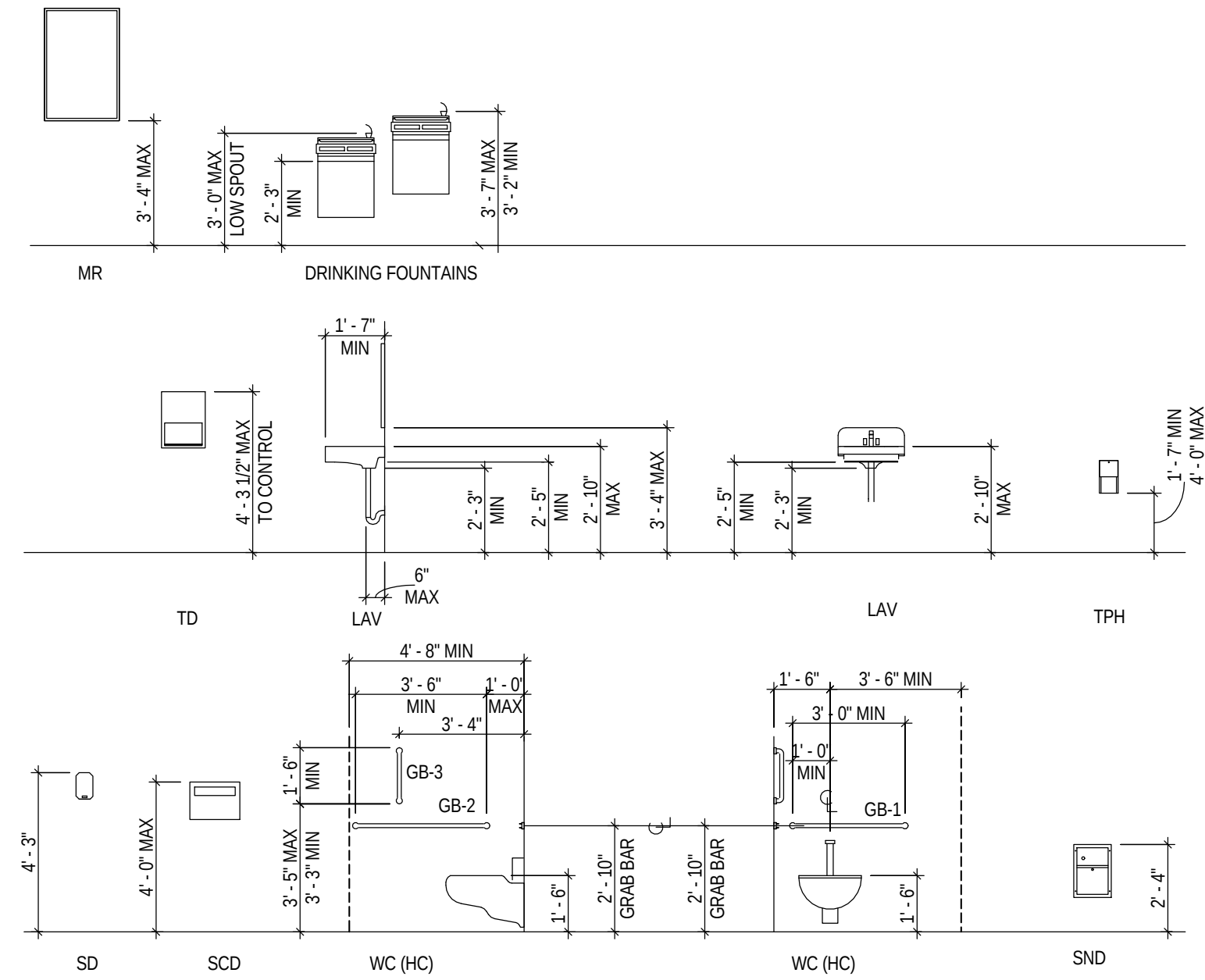


8 279 TRIAGE - WEST
A2.1 SCALE: 3/8" = 1'-0"



GENERAL NOTES

1. CALLOUTS ON PLANS INDICATE TYP. ITEMS, PROVIDE ALL ITEMS SHOWN FOR A COMPLETE INSTALLATION.
2. PROVIDE INSULATION AT ALL EXPOSED HOT WATER AND DRAIN PIPES PER ADA/ADAAG 4.24.6

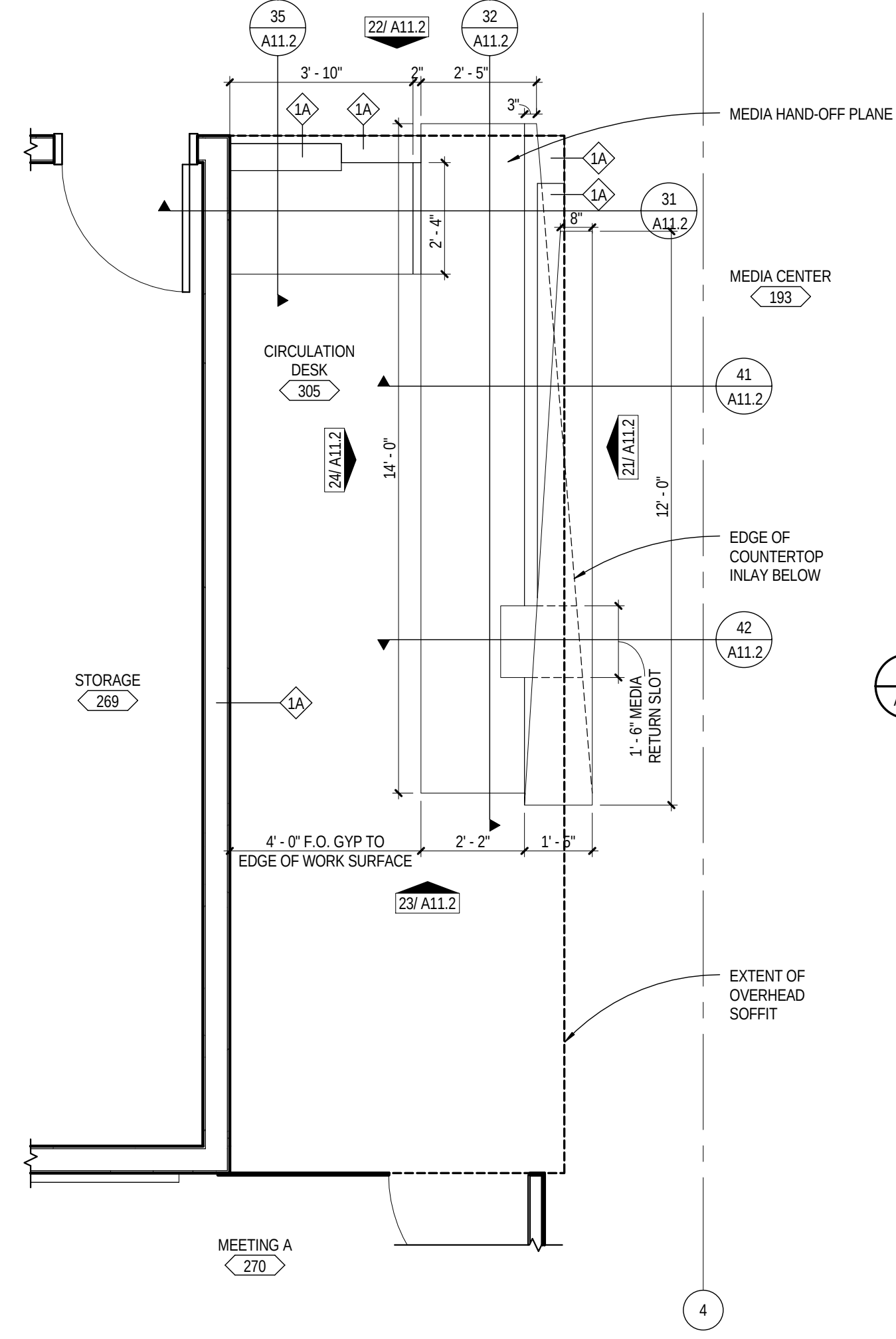


TOILET ACCESSORIES SCHEDULE

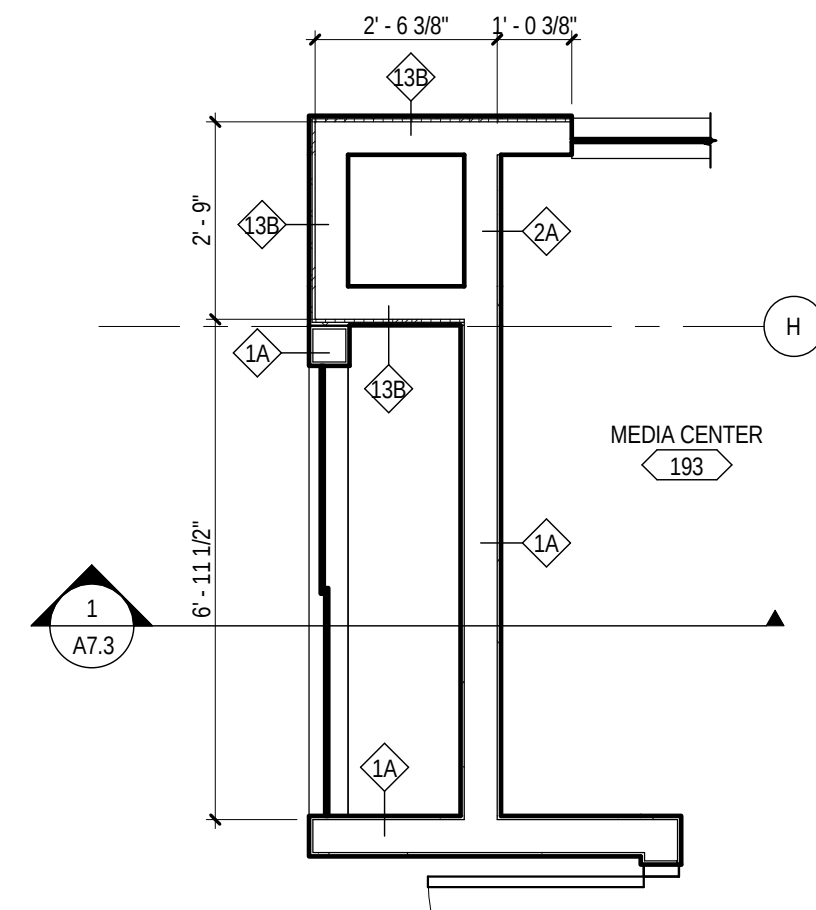
ABBREV.	DESCRIPTION	MOUNTING HEIGHT
GB-1	GRAB BAR (SIDE WALL)	2'-9" TO CL
GB-2	GRAB BAR (BACK WALL)	
GB-3	GRAB BAR (VERTICAL)	
GB-4	GRAB BAR (AMBULATORY STALL)	
ACC	ADA ACCESSIBLE HEIGHT	
MBH	MOP / BROOM HOLDER	
MR	MIRROR	3'-4" TO BOTTOM OF REFLECTING SURFACE
RH	ROBE HOOK	
SD	SEAT COVER DISPENSER	
SD	FOAM HAND SOAP DISPENSER (OFC)	
SND	SANITARY NAPKIN DISPOSAL (OFC)	
TD	TOWEL DISPENSER (OFC)	
TTD	SURFACE MOUNTED TOILET PAPER DISPENSER	
US	UTILITY SHELF	
WR	FREESTANDING WASTE RECEPTACLE (OFC)	

ENLARGED PLANS AND ELEVATIONS FERN RIDGE MIDDLE SCHOOL INTERIOR ALTERATIONS

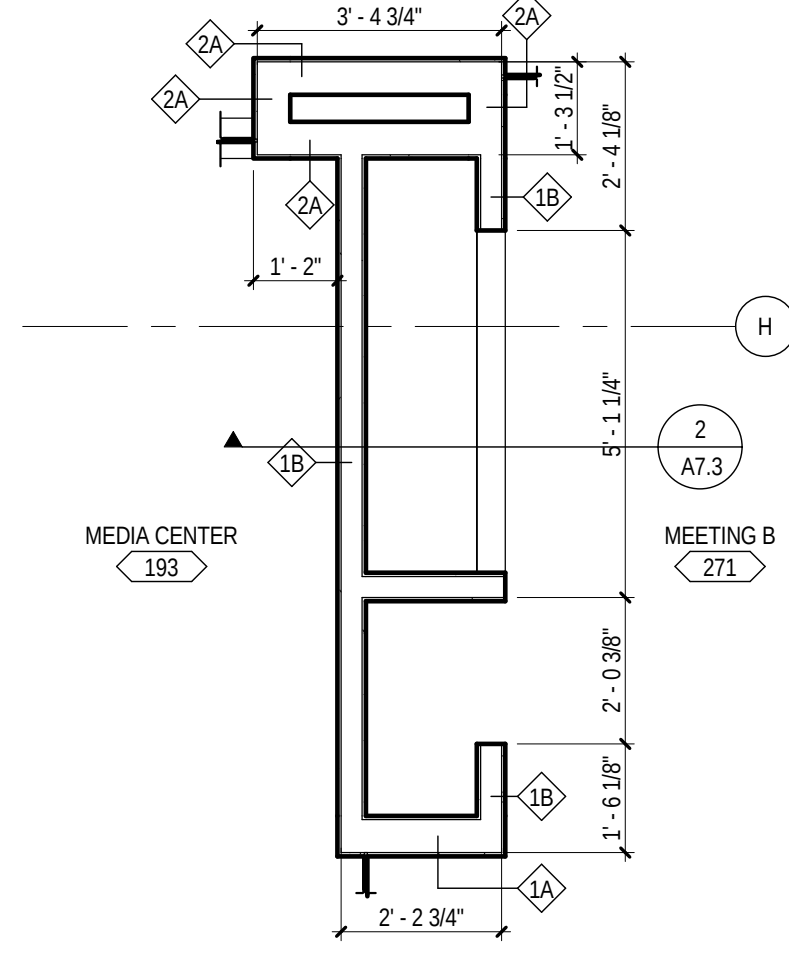
A2.1
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04.29.2015
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1 STAFF STATION @ MEDIA CENTER
A2.3 SCALE: 3/8" = 1'-0"



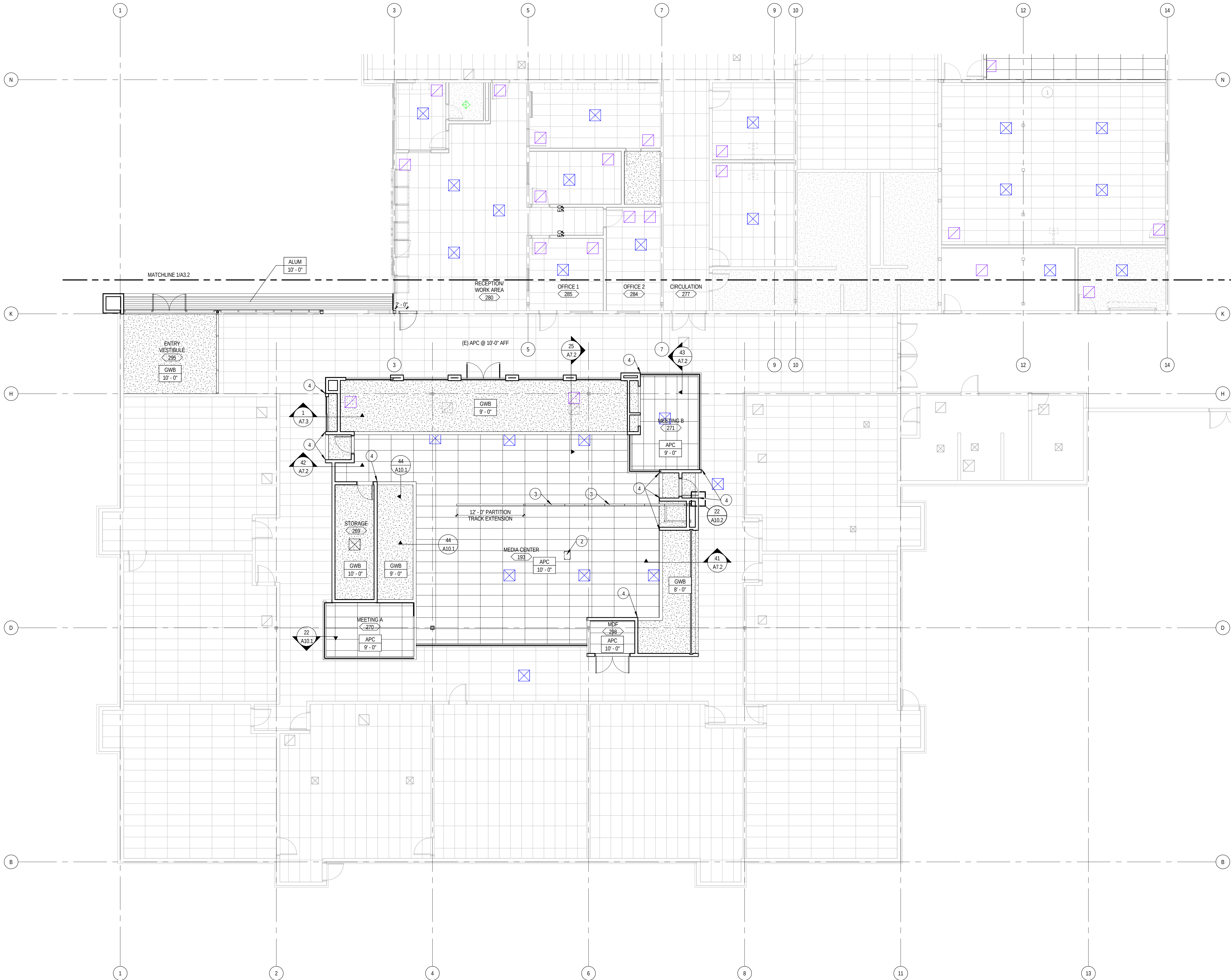
2 NW DISPLAY CASE @ MEDIA CENTER
A2.3 SCALE: 3/8" = 1'-0"



3 MEETING ROOM B CASEWORK @ MEDIA CENTER
A2.3 SCALE: 3/8" = 1'-0"

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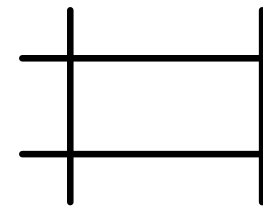
1
A3.1
LEVEL 01 - AREA A
SCALE: 1/8" = 1'-0"



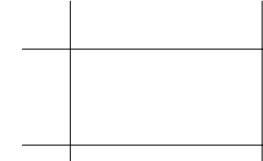
GENERAL NOTES

REFLECTED CEILING PLAN NOTES:

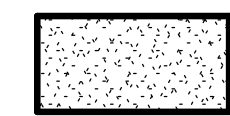
- REFLECTED CEILING PLAN GENERAL NOTES APPLY TO ALL REFLECTED CEILING PLAN SHEETS.
- ALL CEILING GRIDS/PANELS SHALL BE CENTERED IN EACH ROOM UNLESS NOTED OTHERWISE.
- CEILING HEIGHTS ARE AS NOTED ON THE REFLECTED CEILING PLAN UNLESS NOTED OTHERWISE.
- ALL ELECTRICAL FIXTURES, SPEAKERS, SMOKE AND THERMAL DETECTORS, MECHANICAL GRILLES, SPRINKLER HEADS, ETC., SHALL BE CENTERED BETWEEN CEILING GRIDS UNLESS NOTED OTHERWISE. SPRINKLER HEADS SHALL BE WITHIN A 3" RADIUS CENTERED BETWEEN CEILING GRIDS.
- IN ACOUSTICAL CEILING PANELS WITH SCORE IN THE CENTER, CENTER DEVICES REFERENCED IN NOTED, IN ONE HALF OF THE TILE. DO NOT LOCATE ON THE SCORE. FOR APC WITH MULTIPLE SCORED PATTERNS, COORDINATE LOCATION WITH ARCHITECT.
- PROVIDE SUSPENSION SYSTEM AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES, DIFFUSERS, ETC. AT ACOUSTICAL PANEL CEILINGS.
- ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE ACTUAL AND ARE TO THE FOLLOWING UNLESS NOTED OTHERWISE:
 - FACE OF FINISHED WALL
 - FACE OF FINISHED BULKHEADS
 - CENTERLINE OF COLUMNS
 - CENTERLINE OF TEES
- IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK, AND ELECTRICAL FIXTURES WITH EACH RESPECTIVE SUBCONTRACTOR.
- ALL WALLS EXTEND TO UNDERSIDE OF DECK EXCEPT THOSE SHOWN SHADED IN WHICH GYPSUM BOARD OR MASONRY EXTENDS MIN. 4" ABOVE FINISHED CEILING. ALL WOOD STUDS EXTEND TO UNDERSIDE OF STRUCTURE.
- FOR CEILING SUPPORT DETAILS, SEE 13/A10.2, 14/A10.2, 25/A10.2, 35/A10.2



NEW 24" X 48" APC
SEE PLAN FOR HEIGHTS



EXISTING GRID AND TILE TO REMAIN



NEW GYP BOARD CEILING. SEE PLAN FOR HEIGHTS. SEE SCHEDULE FOR FINISHES



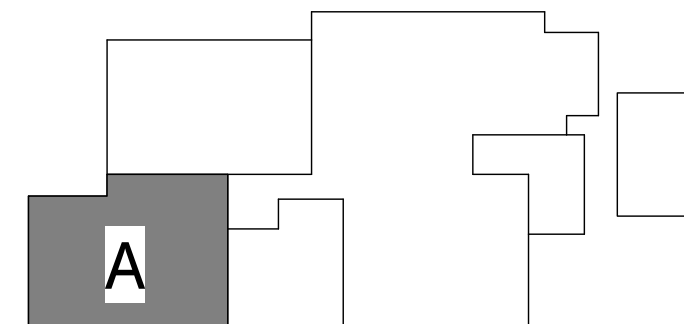
EXISTING GYP BD CEILING TO REMAIN

KEY NOTES

REFLECTED CEILING PLAN LEGEND NOTES:

- WALL-MOUNTED PROJECTOR
- CEILING-MOUNTED PROJECTOR
- SLIDING MAGNETIC WHITE BOARD PARTITION/TRACK
- SLIP JOINT CONDITION - SEE DETAIL 22/A10.2

KEY PLAN



REFLECTED CEILING PLAN, FIRST LEVEL - AREA A FERN RIDGE MIDDLE SCHOOL INTERIOR ALTERATIONS

A3.1

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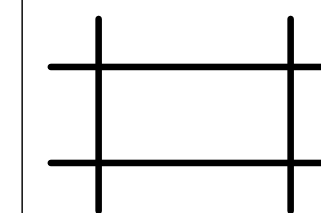


1
A3.2
LEVEL 01 - AREA B
SCALE: 1/8" = 1'-0"

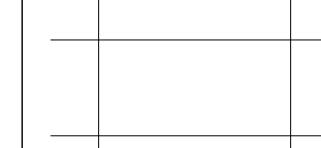
GENERAL NOTES

REFLECTED CEILING PLAN NOTES:

- REFLECTED CEILING PLAN GENERAL NOTES APPLY TO ALL REFLECTED CEILING PLAN SHEETS.
- ALL CEILING GRIDS/PANELS SHALL BE CENTERED IN EACH ROOM UNLESS NOTED OTHERWISE.
- CEILING HEIGHTS ARE AS NOTED ON THE REFLECTED CEILING PLAN UNLESS NOTED OTHERWISE.
- ALL ELECTRICAL FIXTURES, SPEAKERS, SMOKE AND THERMAL DETECTORS, MECHANICAL GRILLES, SPRINKLER HEADS, ETC., SHALL BE CENTERED BETWEEN CEILING GRIDS UNLESS NOTED OTHERWISE. SPRINKLER HEADS SHALL BE WITHIN A 3' RADIUS CENTERED BETWEEN CEILING GRIDS.
- IN ACOUSTICAL CEILING PANELS WITH SCORE IN THE CENTER, CENTER DEVICES REFERENCED IN NOTED, IN ONE HALF OF THE TILE. DO NOT LOCATE ON THE SCORE. FOR APC WITH MULTIPLE SCORED PATTERNS, COORDINATE LOCATION WITH ARCHITECT.
- PROVIDE SUSPENSION SYSTEM AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES, DIFFUSERS, ETC. AT ACOUSTICAL PANEL CEILINGS.
- ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE ACTUAL AND ARE TO THE FOLLOWING UNLESS NOTED OTHERWISE:
 - FACE OF FINISHED WALL
 - FACE OF FINISHED BULKHEADS
 - CENTERLINE OF COLUMNS
 - CENTERLINE OF TEES
- IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK, AND ELECTRICAL FIXTURES WITH EACH RESPECTIVE SUBCONTRACTOR.
- ALL WALLS EXTEND TO UNDERSIDE OF DECK EXCEPT THOSE SHOWN SHADED IN WHICH GYPSUM BOARD OR MASONRY EXTENDS MIN. 4" ABOVE FINISHED CEILING. ALL WOOD STUDS EXTEND TO UNDERSIDE OF STRUCTURE.
- FOR CEILING SUPPORT DETAILS, SEE 13/A10.2, 14/A10.2, 25/A10.2, 35/A10.2.



NEW 24" X 48" APC
SEE PLAN FOR HEIGHTS



EXISTING GRID AND TILE TO REMAIN



NEW GYP BOARD CEILING. SEE PLAN FOR HEIGHTS. SEE SCHEDULE FOR FINISHES



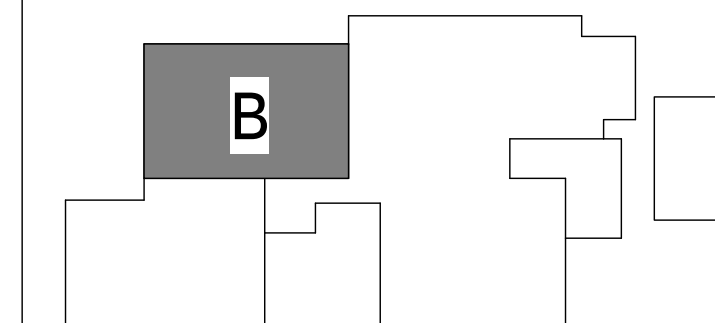
EXISTING GYP BD CEILING TO REMAIN

KEY NOTES

REFLECTED CEILING PLAN LEGEND NOTES:

- WALL-MOUNTED PROJECTOR
- CEILING-MOUNTED PROJECTOR
- SLIDING MAGNETIC WHITE BOARD PARTITION/TRACK
- SLIP JOINT CONDITION - SEE DETAIL 22/A10.2

KEY PLAN



Project Status
PERMIT/BID ISSUE

REFLECTED CEILING PLAN, FIRST LEVEL - AREA B
FERN RIDGE MIDDLE SCHOOL
INTERIOR ALTERATIONS

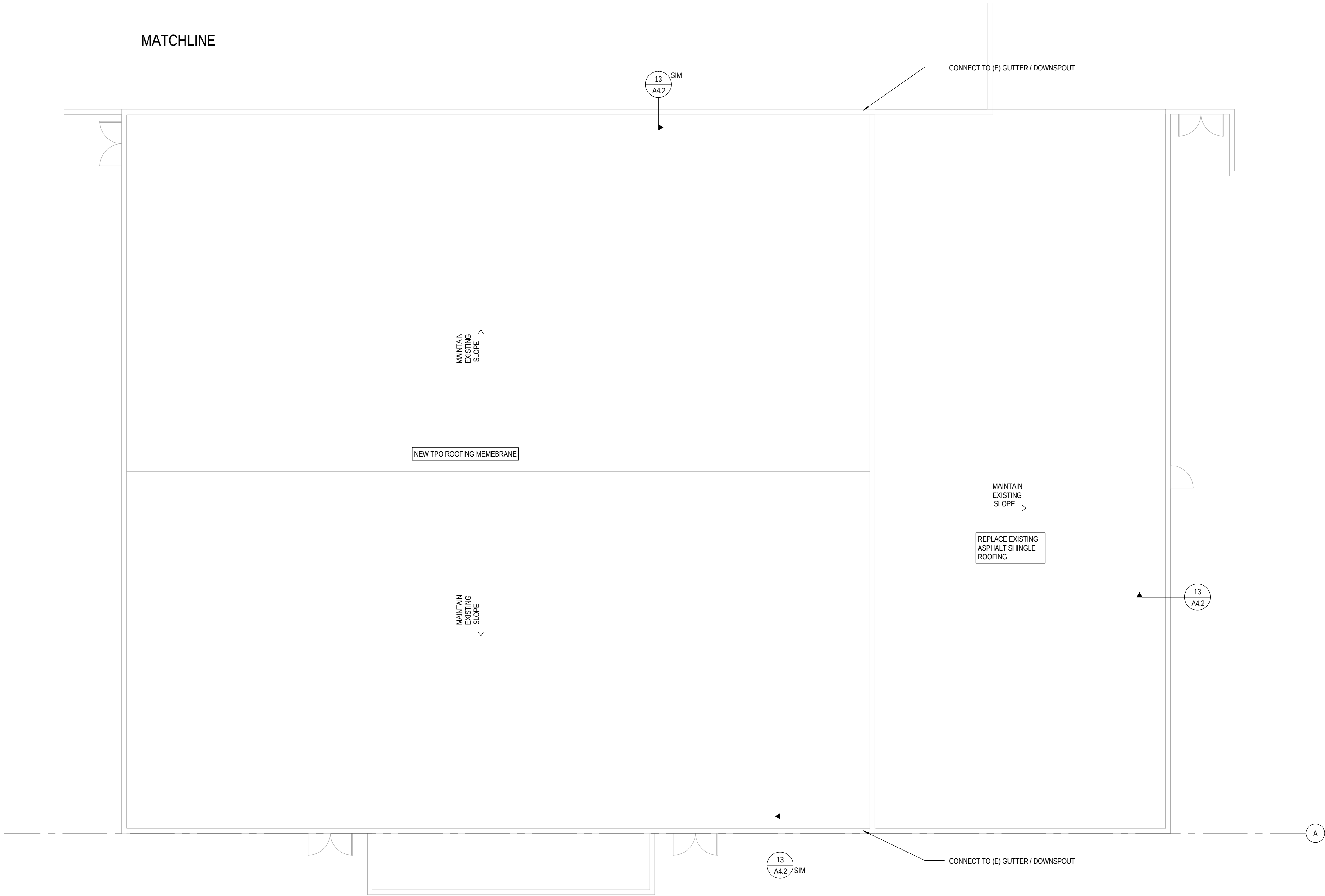
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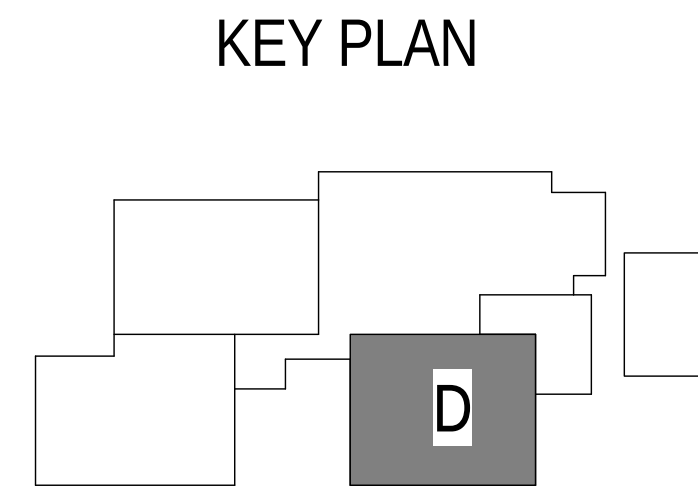
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1
A4.1 ROOF PLAN, FIRST LEVEL - AREA D
SCALE: 1/8" = 1'-0"



GENERAL NOTES

LEGEND NOTES ARE COMMON TO ALL
SOME NOTES MAY NOT APPLY TO THIS SHEET

A FLASH DRAINS, CURBS, VENTS, AND
STACKS PER MANUFACTURER'S
RECOMMENDATIONS IF DETAIL NOT SHOWN
ON PLANS

ROOF PLAN AND DETAILS FERN RIDGE MIDDLE SCHOOL INTERIOR ALTERATIONS

A4.1

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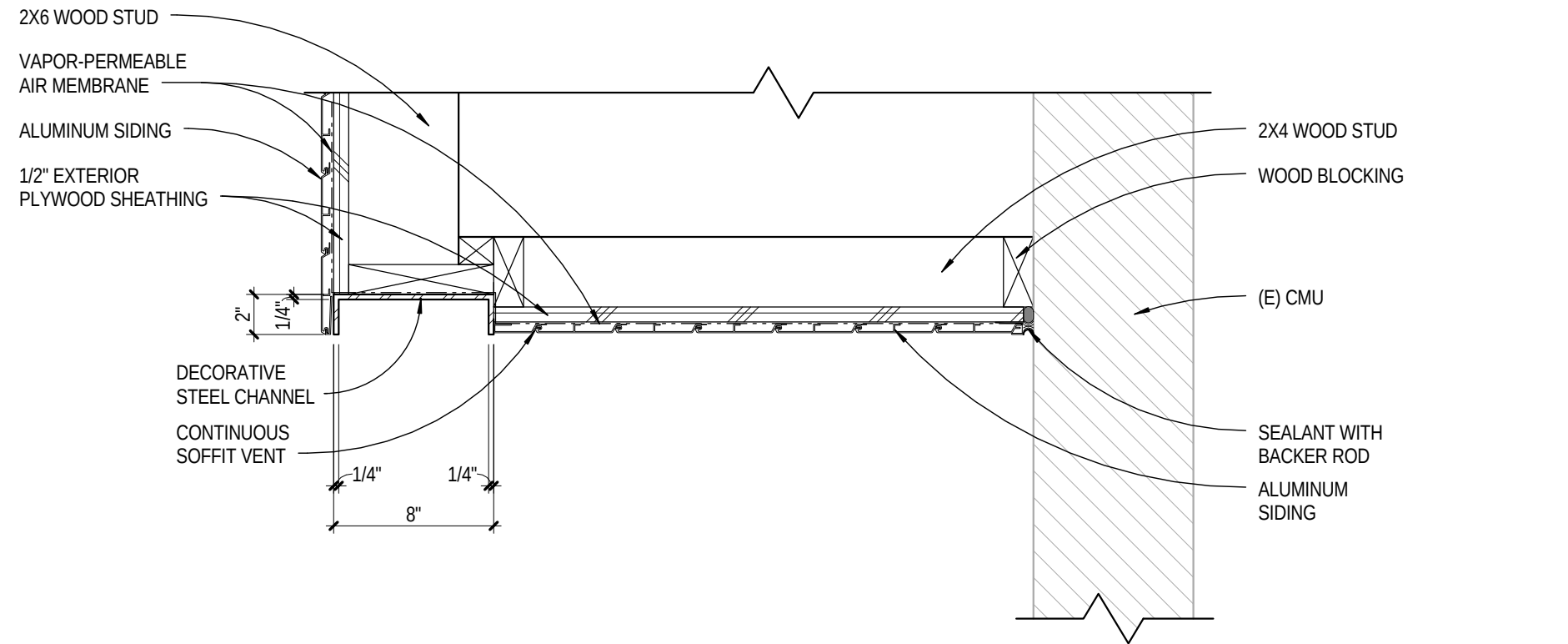
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11 OVERHEAD WALL @ ROOF INFILL
A4.2 SCALE: 1 1/2" = 1'-0"



21 OVERHEAD WALL @ EXISTING
A4.2 SCALE: 1 1/2" = 1'-0"



13 GUTTER DETAIL
A4.2 SCALE: 3" = 1'-0"

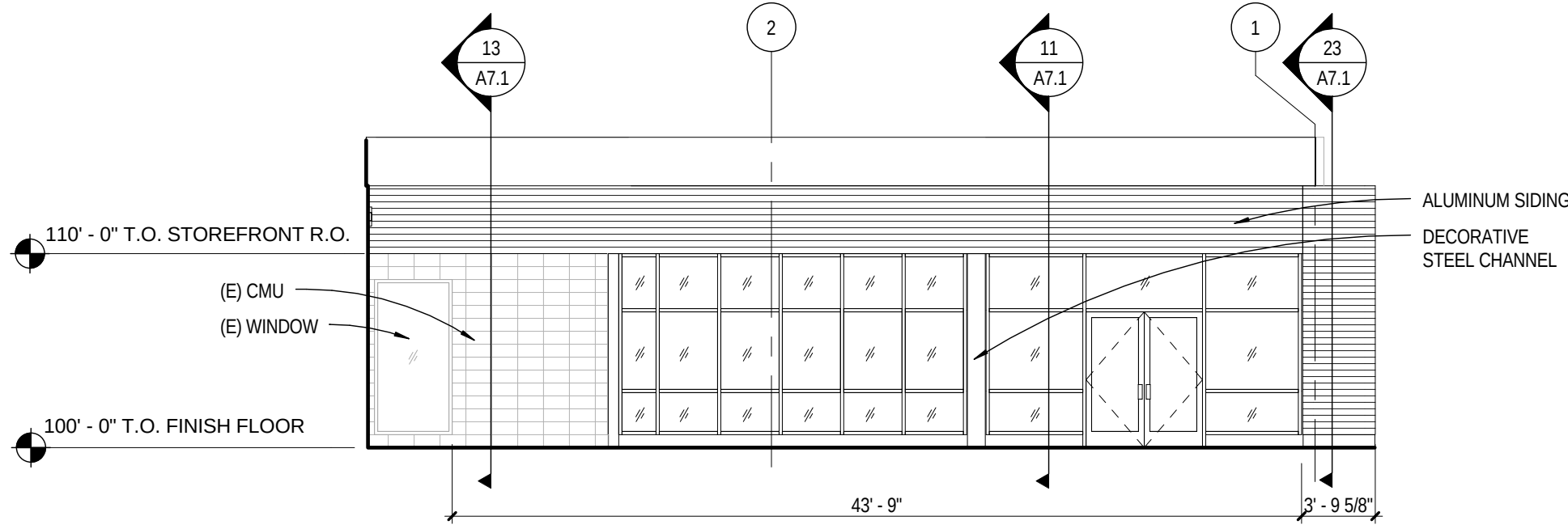


14 COPING DETAIL
A4.2 SCALE: 3" = 1'-0"

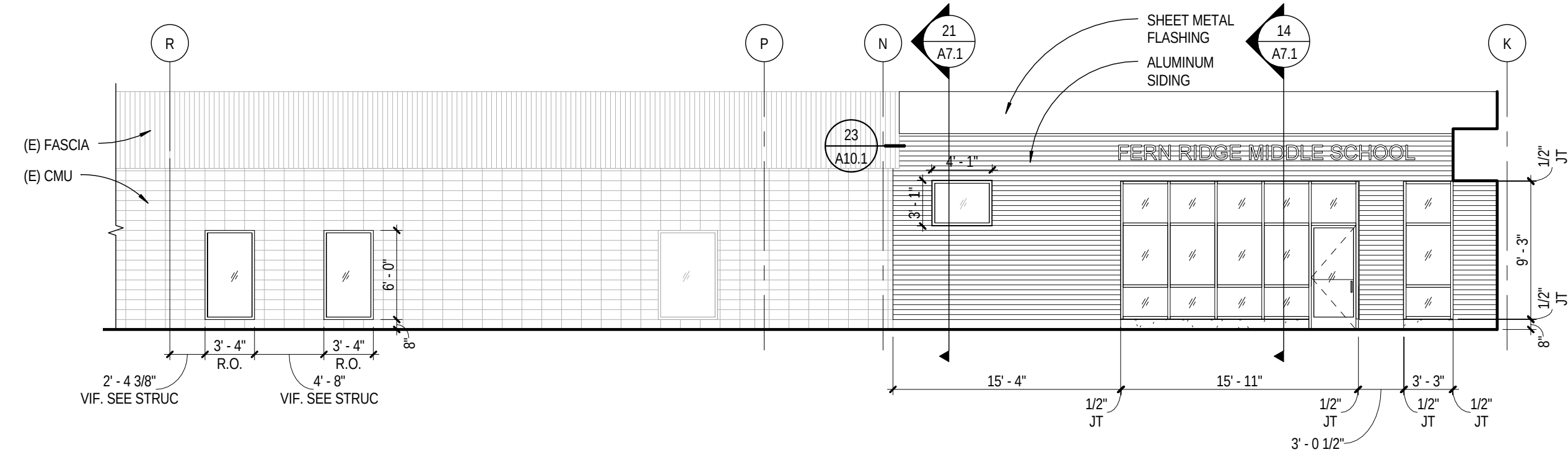


TYPICAL ROOF DETAILS
FERN RIDGE MIDDLE SCHOOL
INTERIOR ALTERATIONS

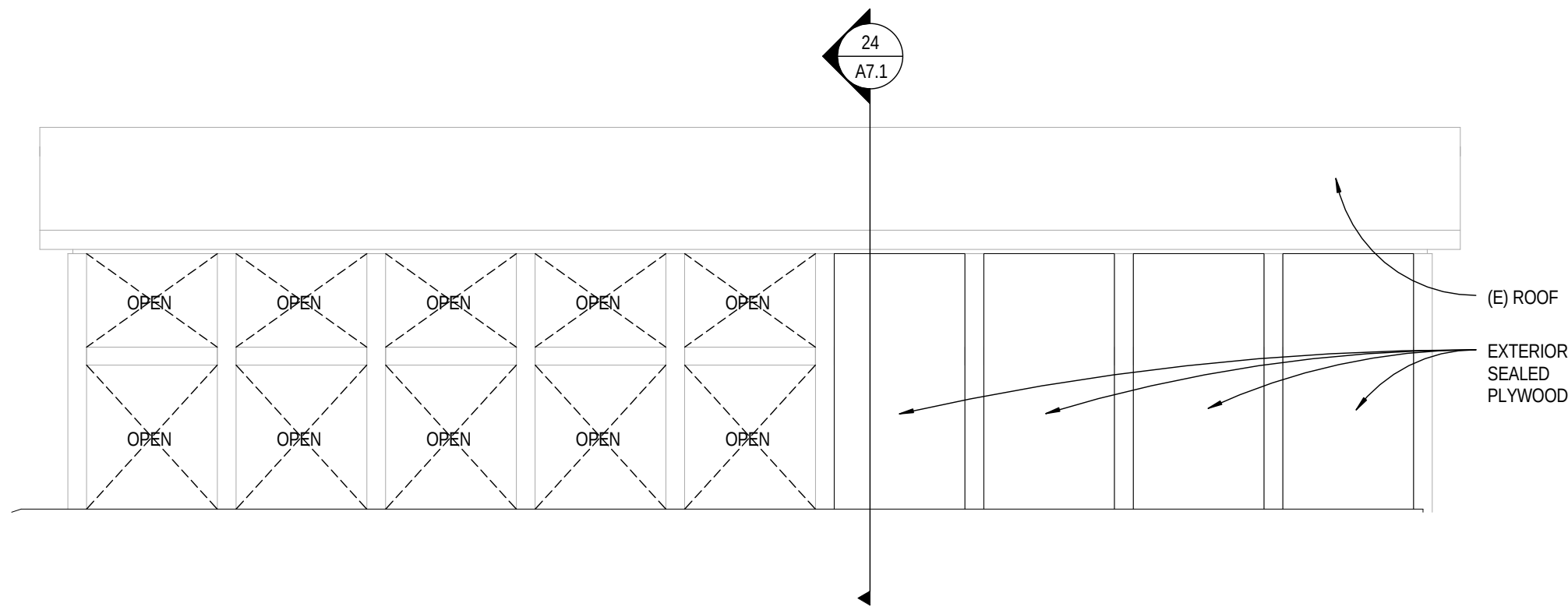
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74-13107-30
04.29.2015
REVISIONS



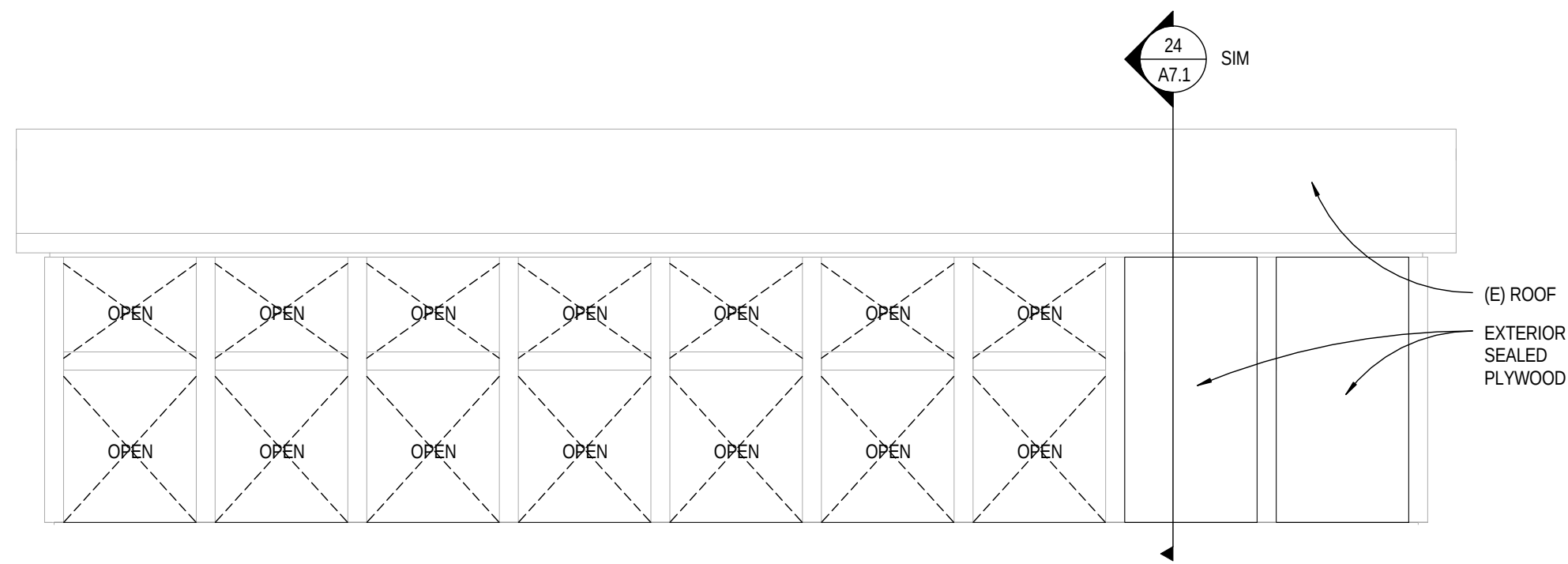
11 STUDENT ENTRANCE EXTERIOR ELEVATION
A5.1 SCALE: 1/8" = 1'-0"



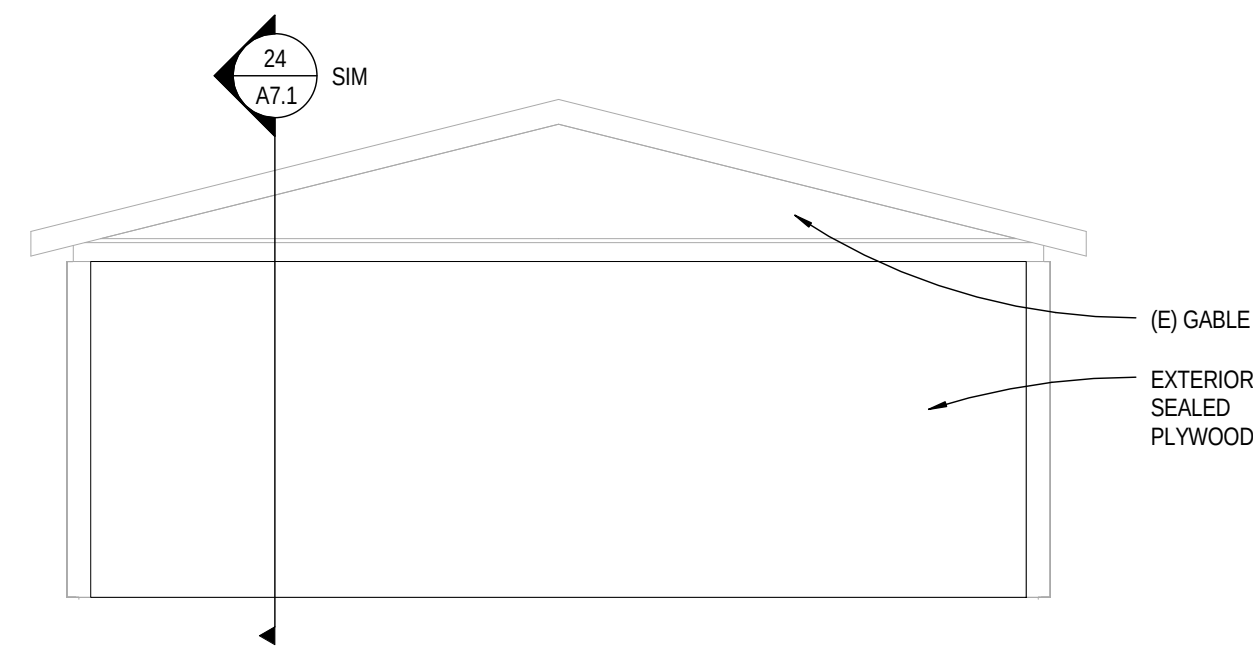
12 RECEPTION/ADMIN EXTERIOR ELEVATION
A5.1 SCALE: 1/8" = 1'-0"



21 COVERED PLAY - WEST ELEVATION
A5.1 SCALE: 1/8" = 1'-0"



22 COVERED PLAY EAST ELEVATION
A5.1 SCALE: 1/8" = 1'-0"



23 COVERED PLAY - SOUTH ELEVATION
A5.1 SCALE: 1/8" = 1'-0"

GENERAL NOTES



Project Status
PERMIT/BID ISSUE

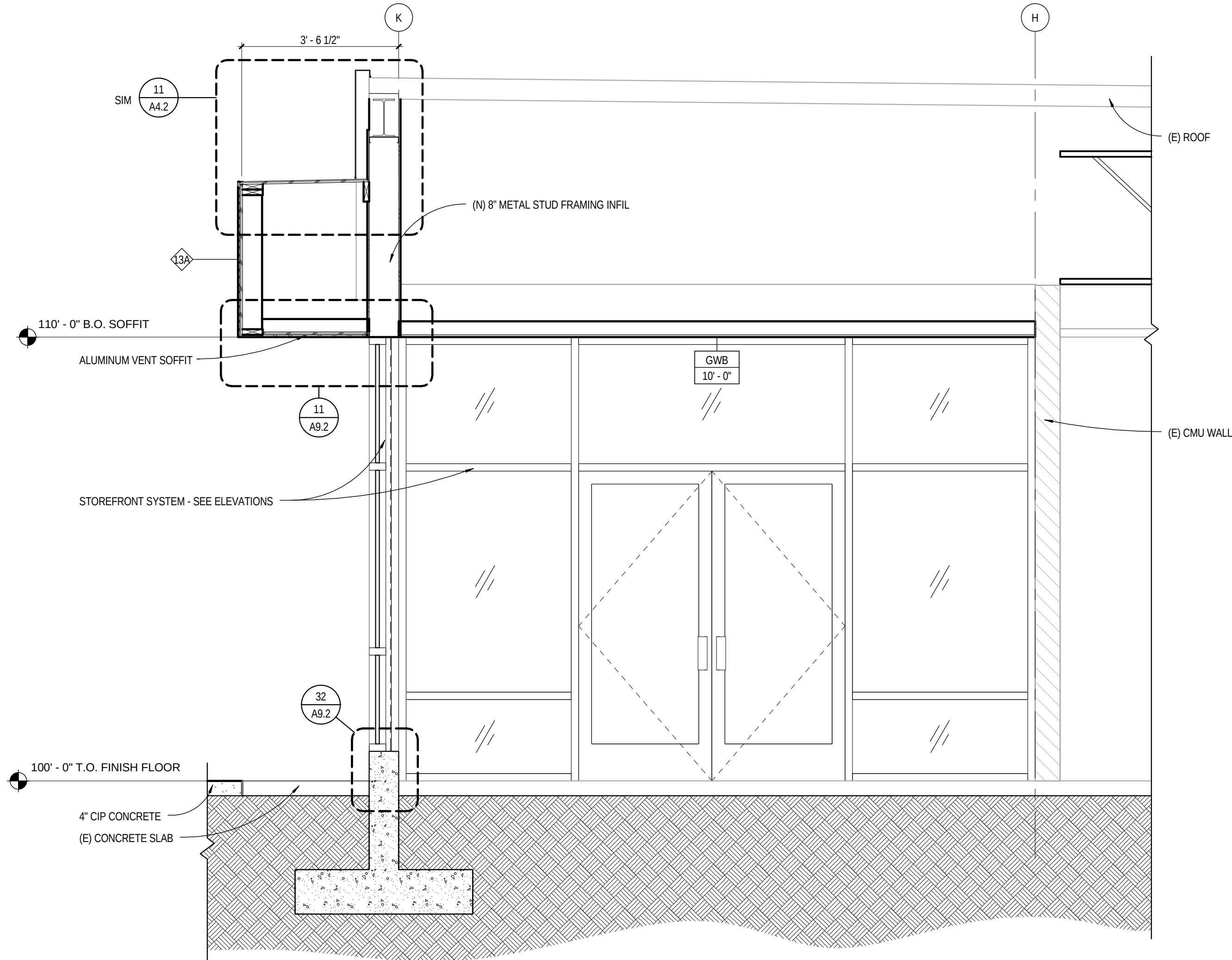
WALL SECTIONS
FERN RIDGE MIDDLE SCHOOL
INTERIOR ALTERATIONS

A7.1

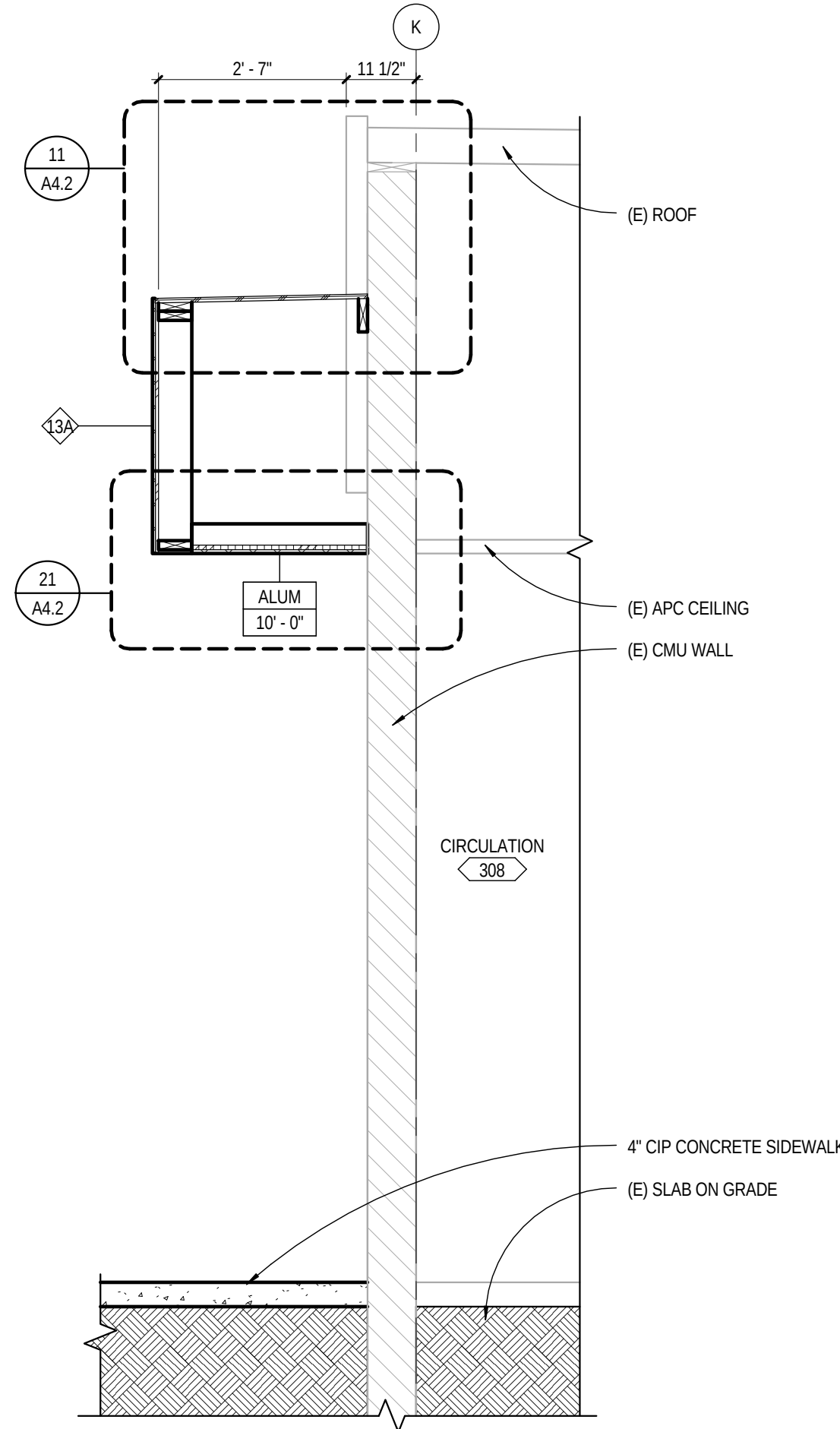
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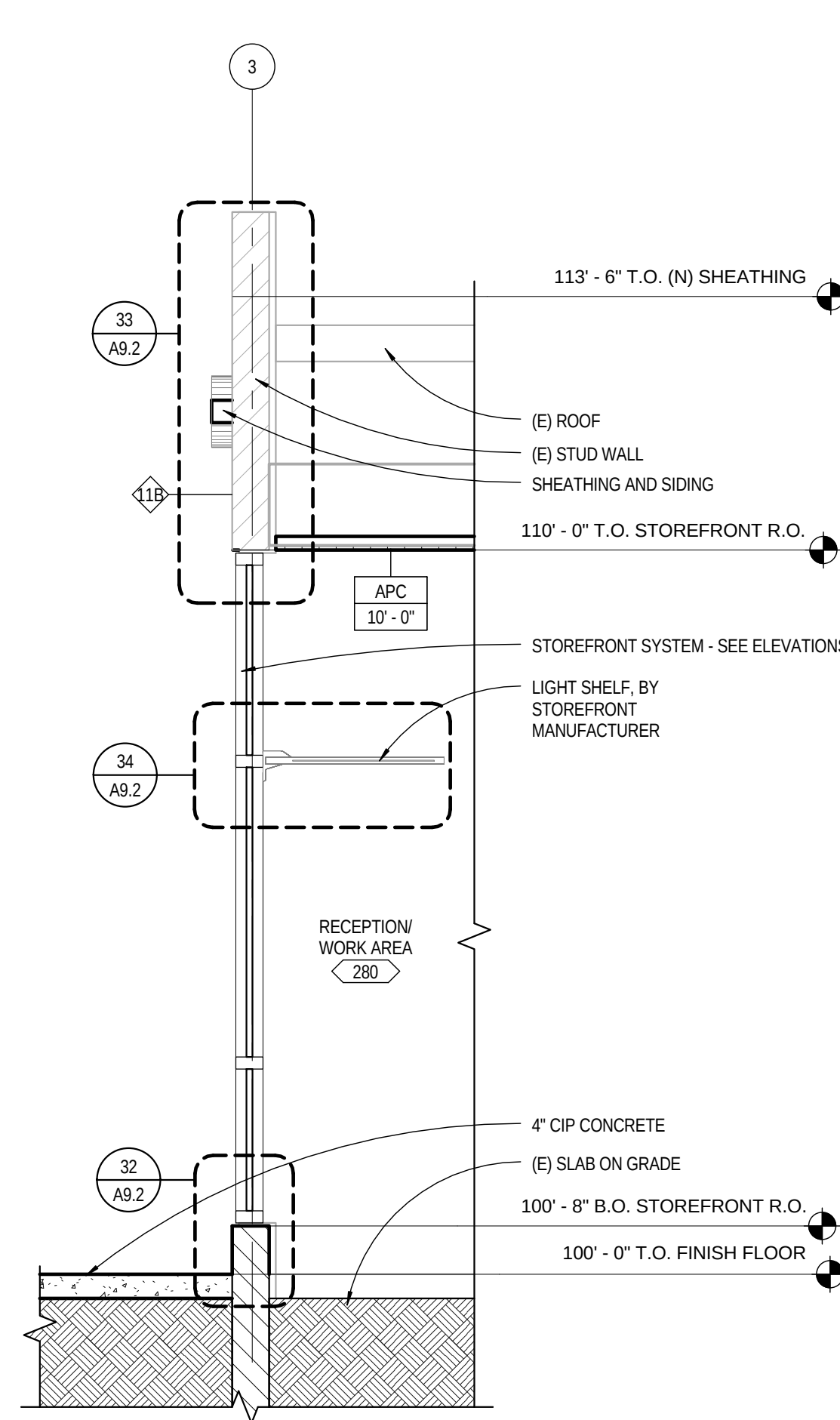
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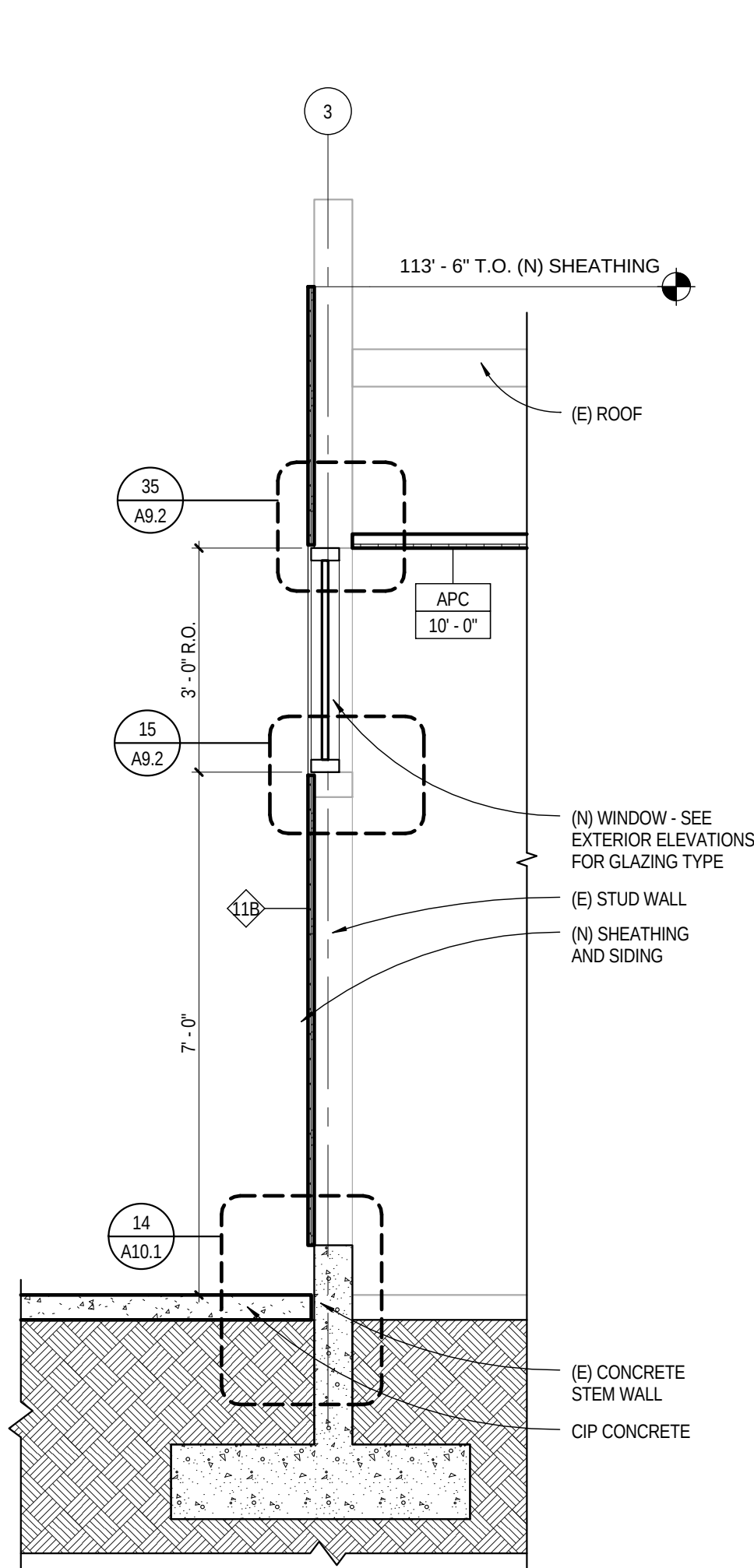
11 WALL SECTION 01
SCALE: 1/2" = 1'-0"



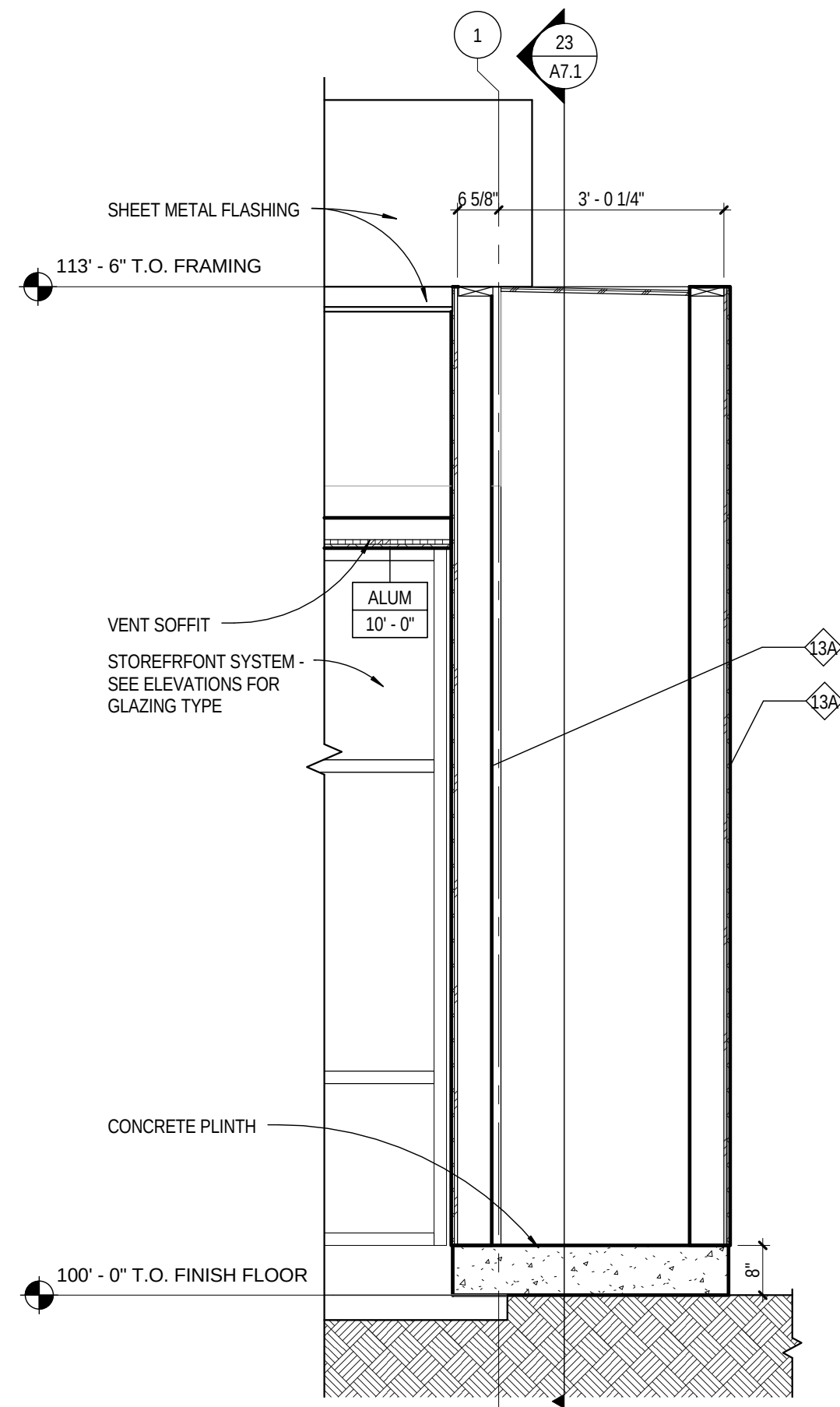
13 WALL SECTION 2
SCALE: 1/2" = 1'-0"



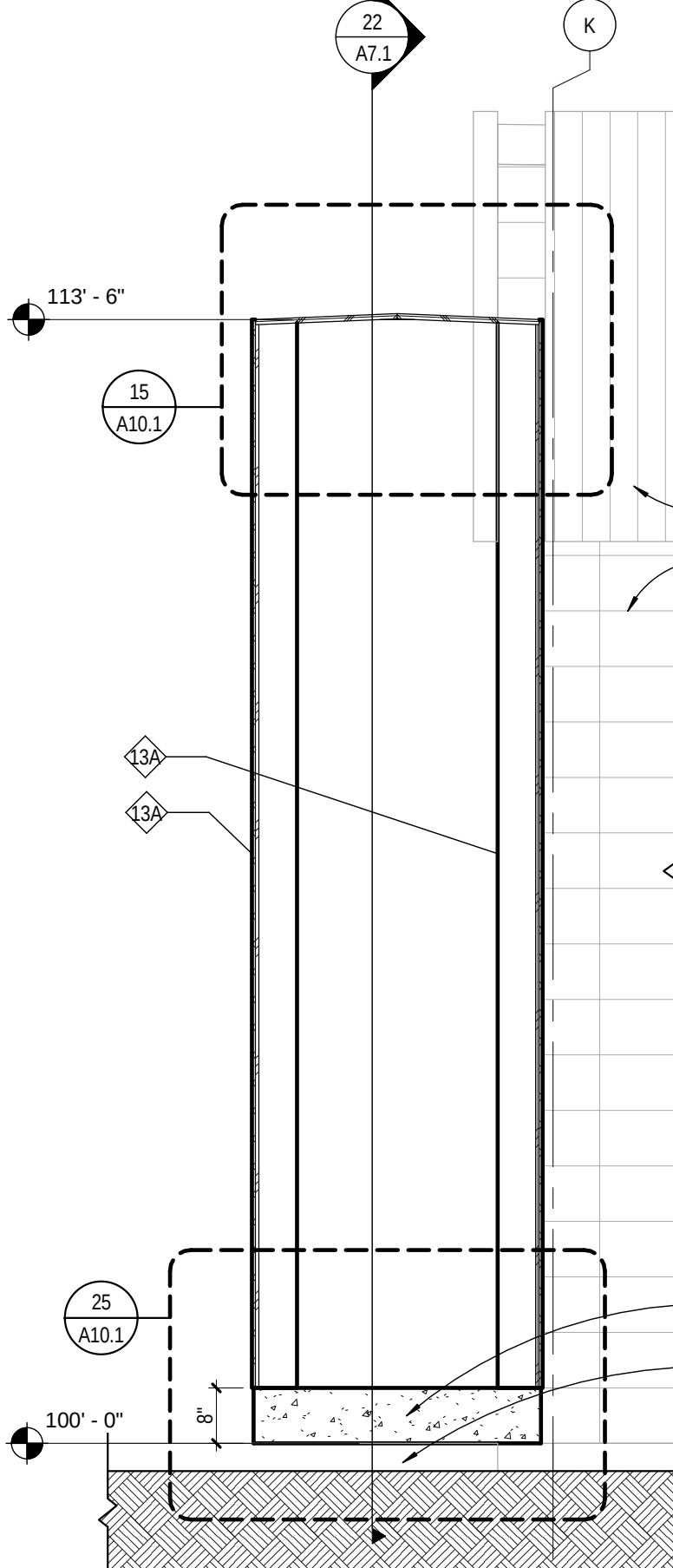
14 WALL SECTION 03
SCALE: 1/2" = 1'-0"



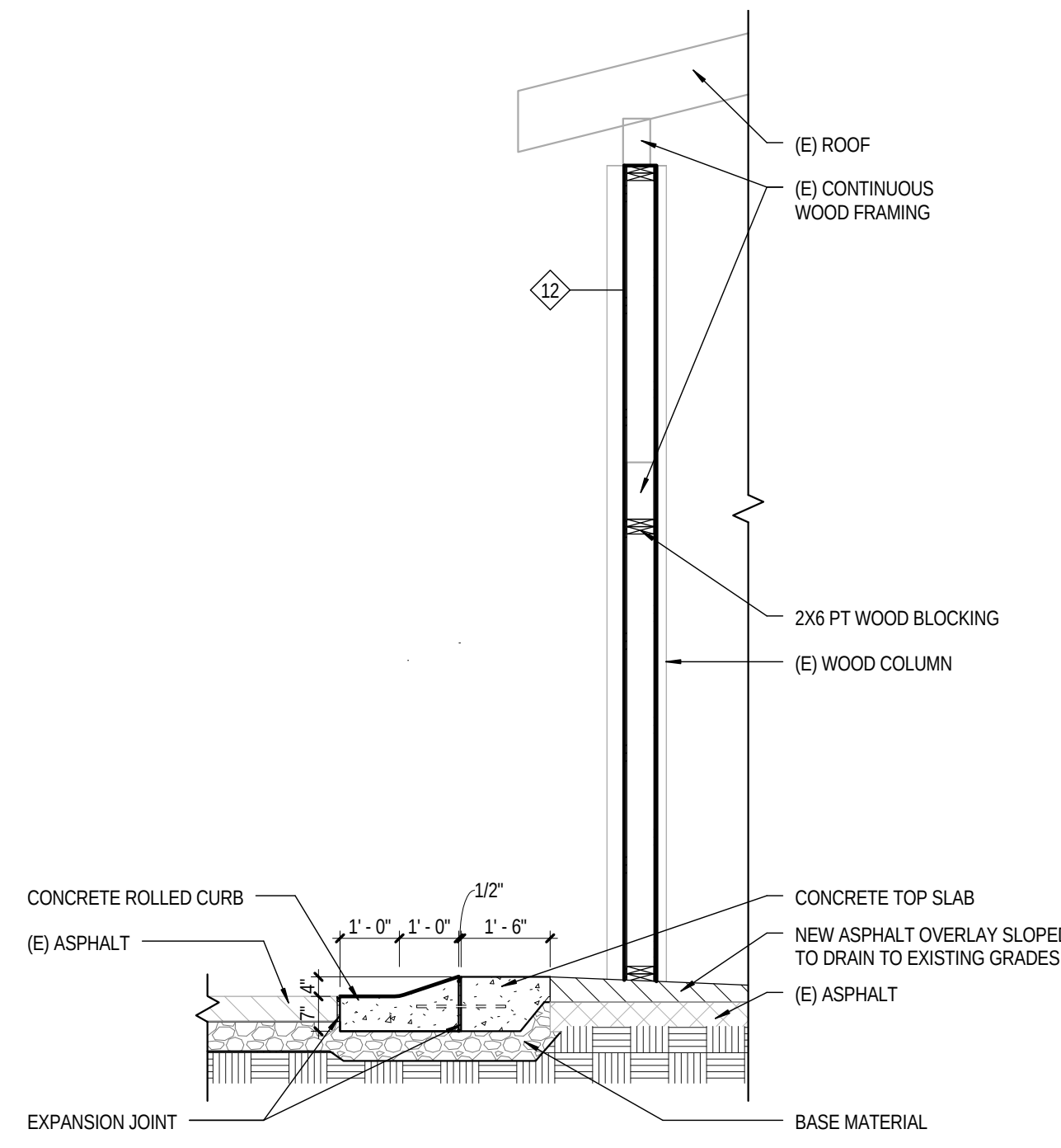
21 WALL SECTION 05
SCALE: 1/2" = 1'-0"



22 WALL SECTION 06
SCALE: 1/2" = 1'-0"

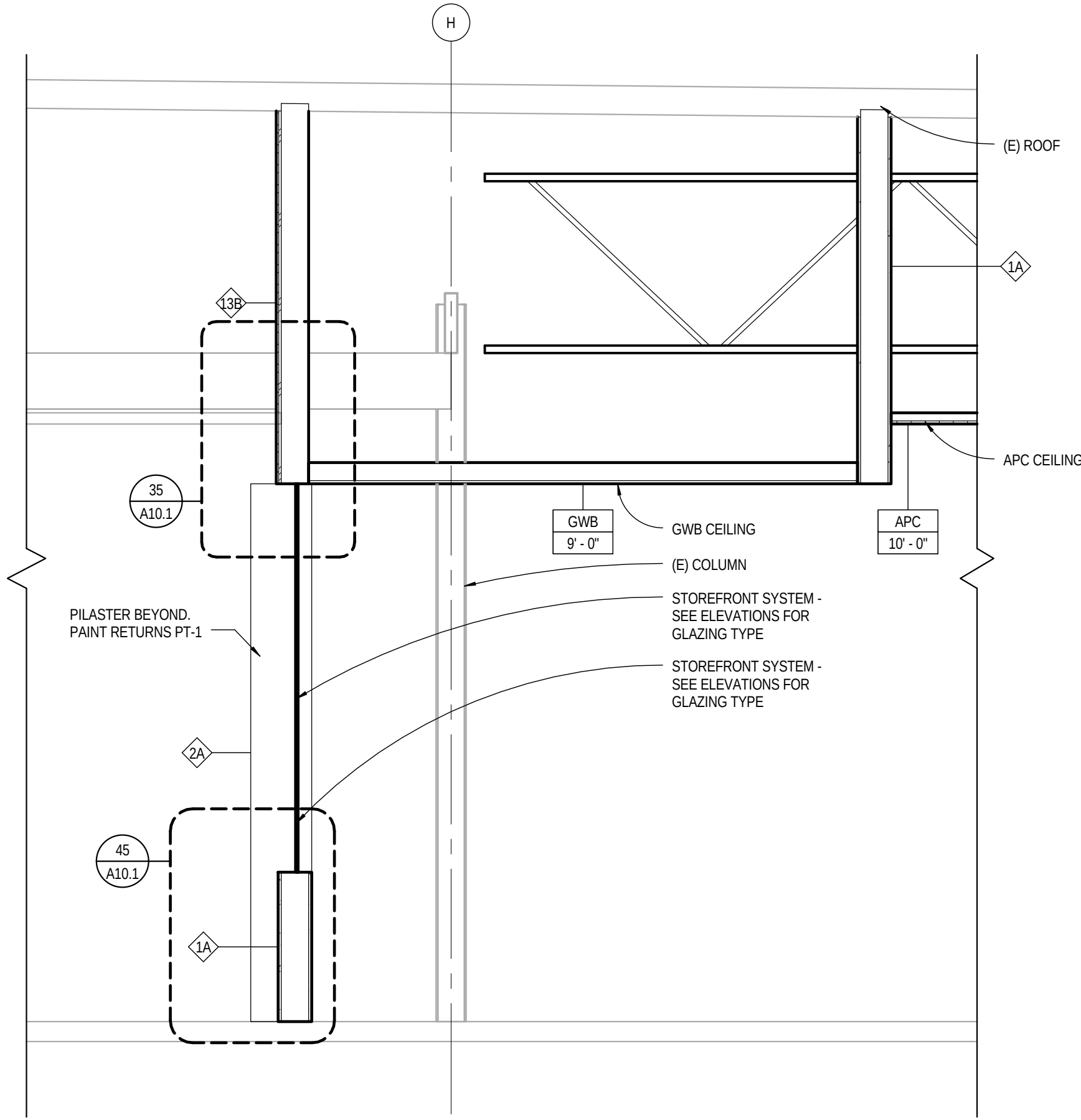


23 WALL SECTION 4
SCALE: 1/2" = 1'-0"

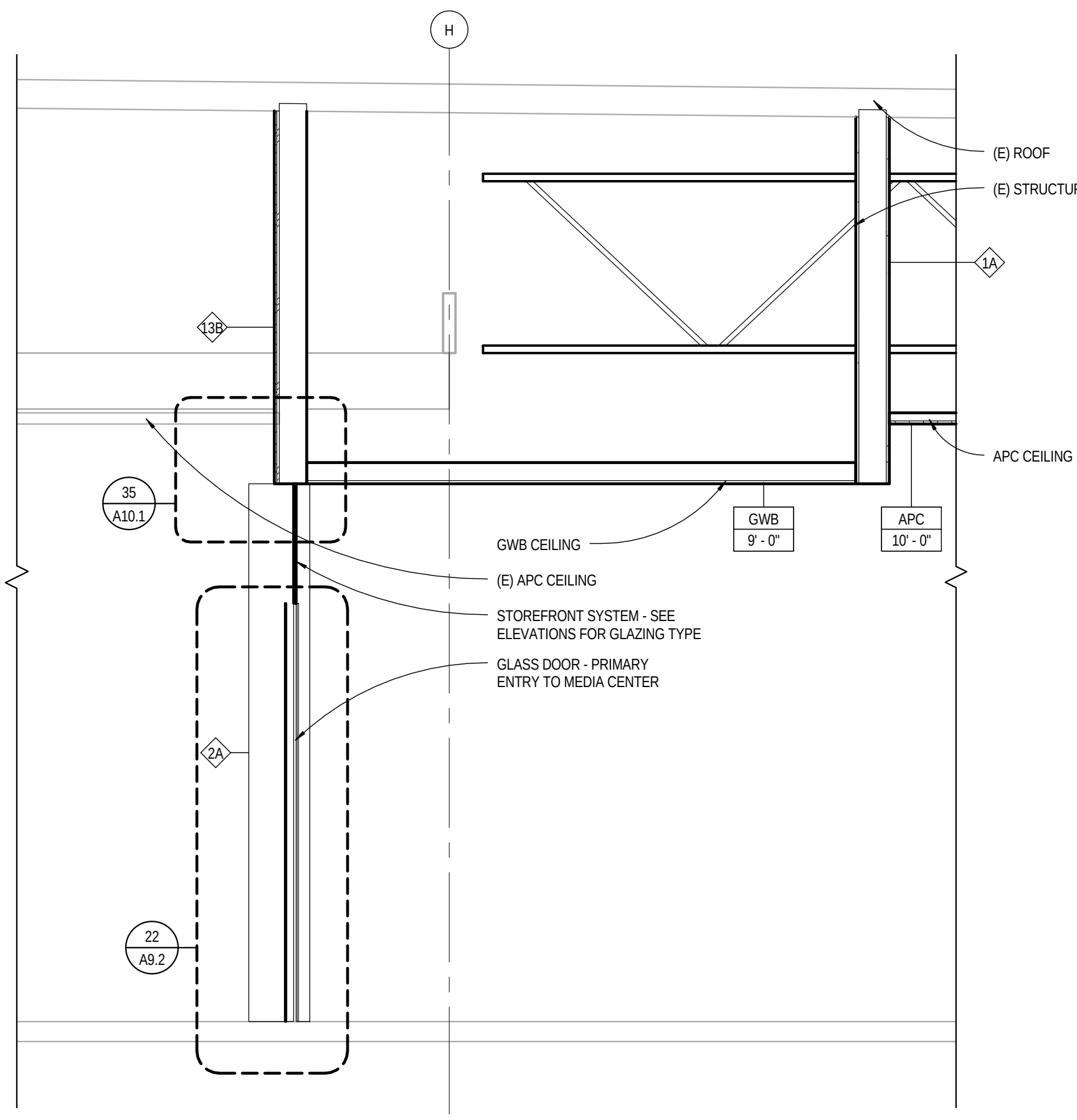


24 COVERED PLAY - WALL SECTION 2
SCALE: 3/8" = 1'-0"

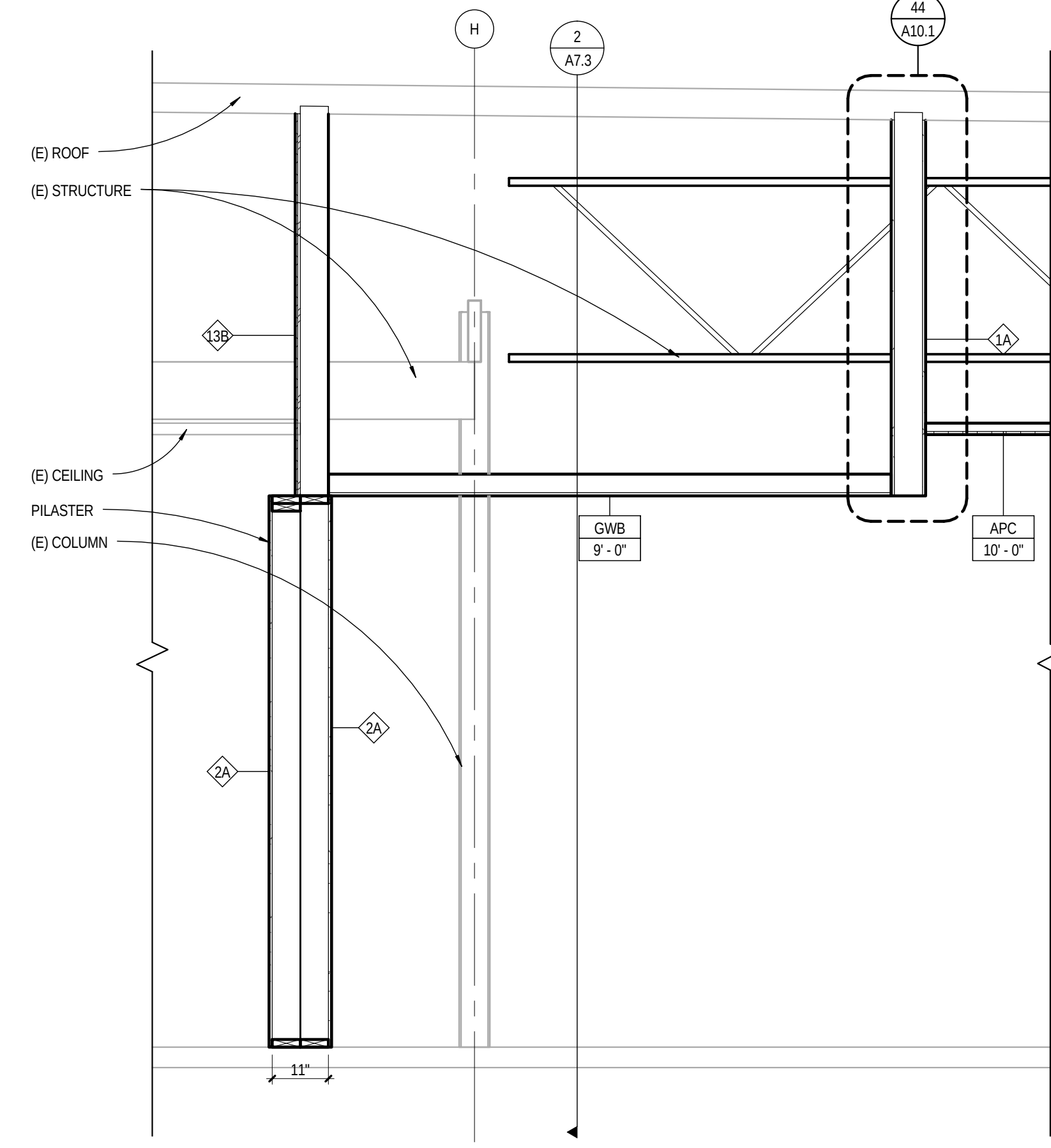
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4/29/2015 4:54:18 PM



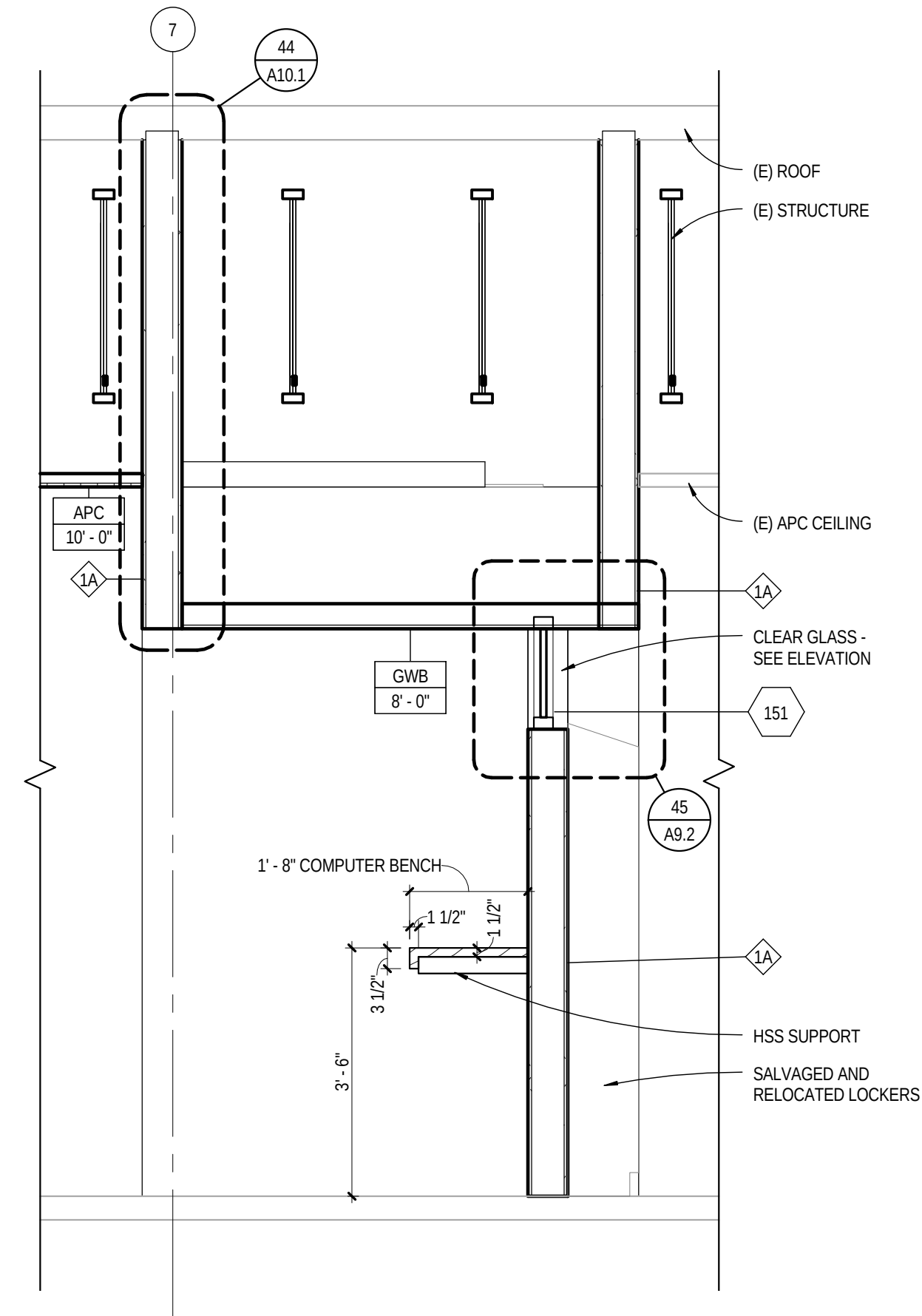
21 MEDIA CENTER - SECTION @ FIXED GLASS
A7.2 SCALE: 1/2" = 1'-0"



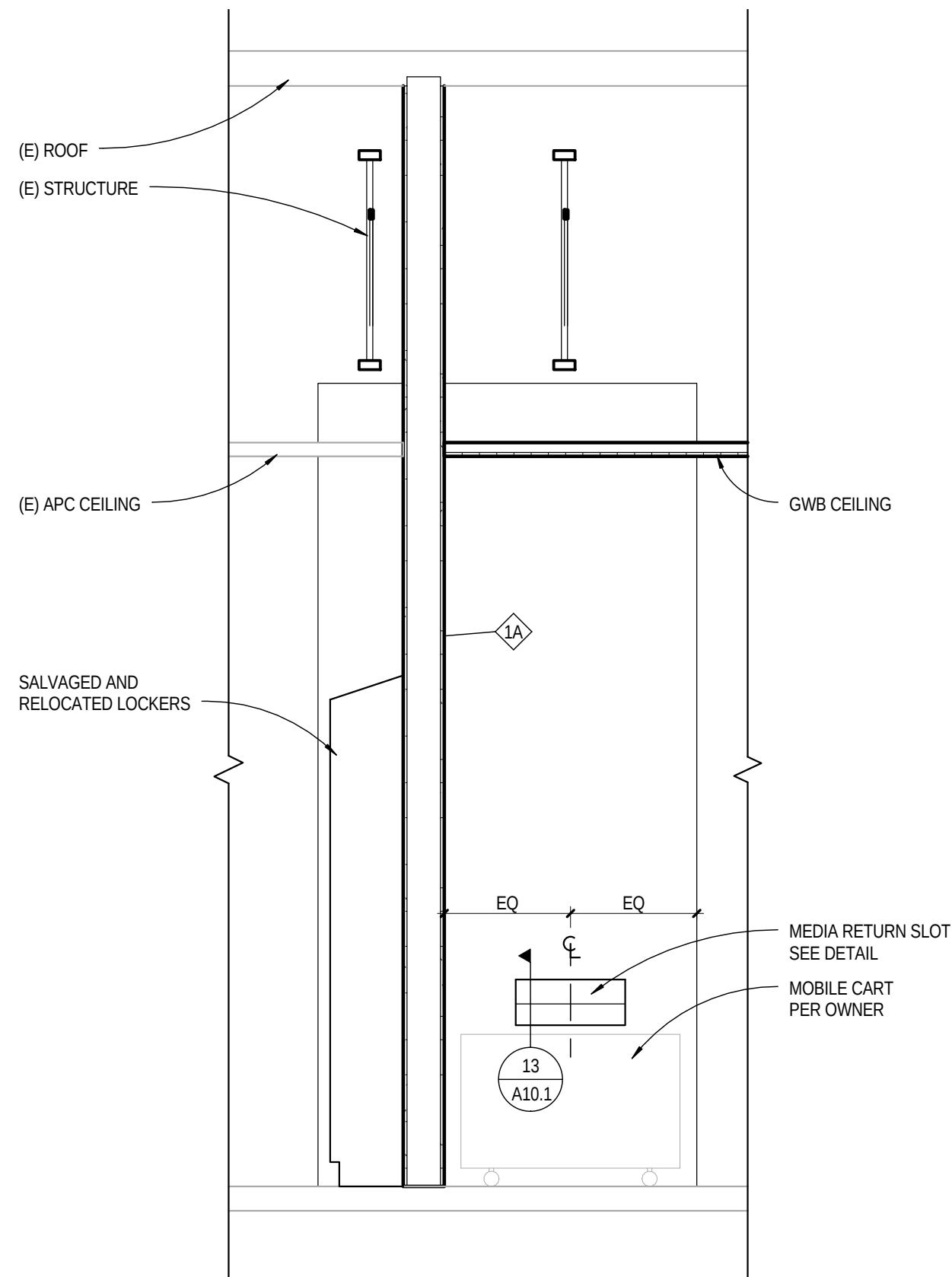
23 MEDIA CENTER - SECTION @ MAIN DOOR
A7.2 SCALE: 1/2" = 1'-0"



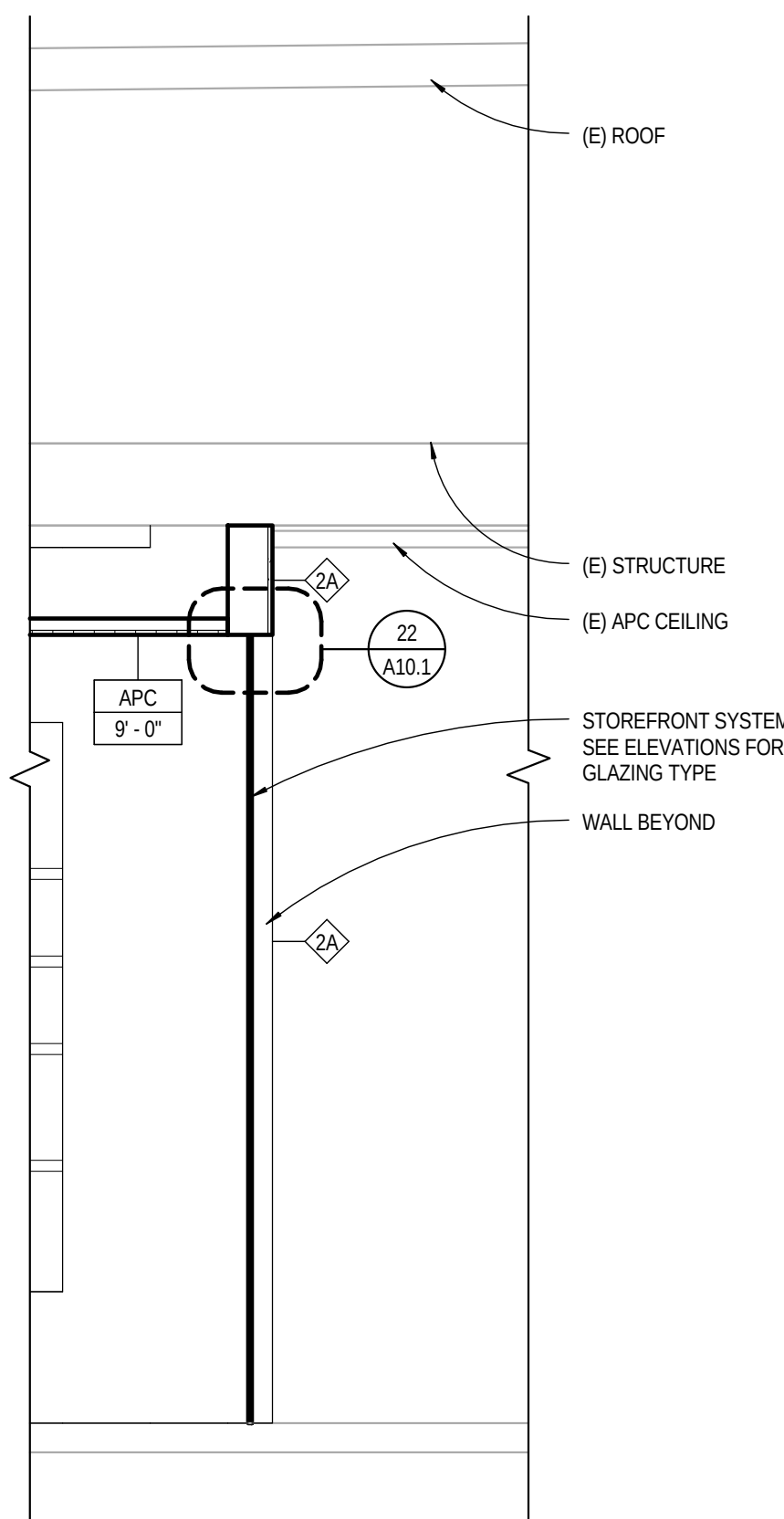
25 WALL SECTION @ PILASTER
A7.2 SCALE: 1/2" = 1'-0"



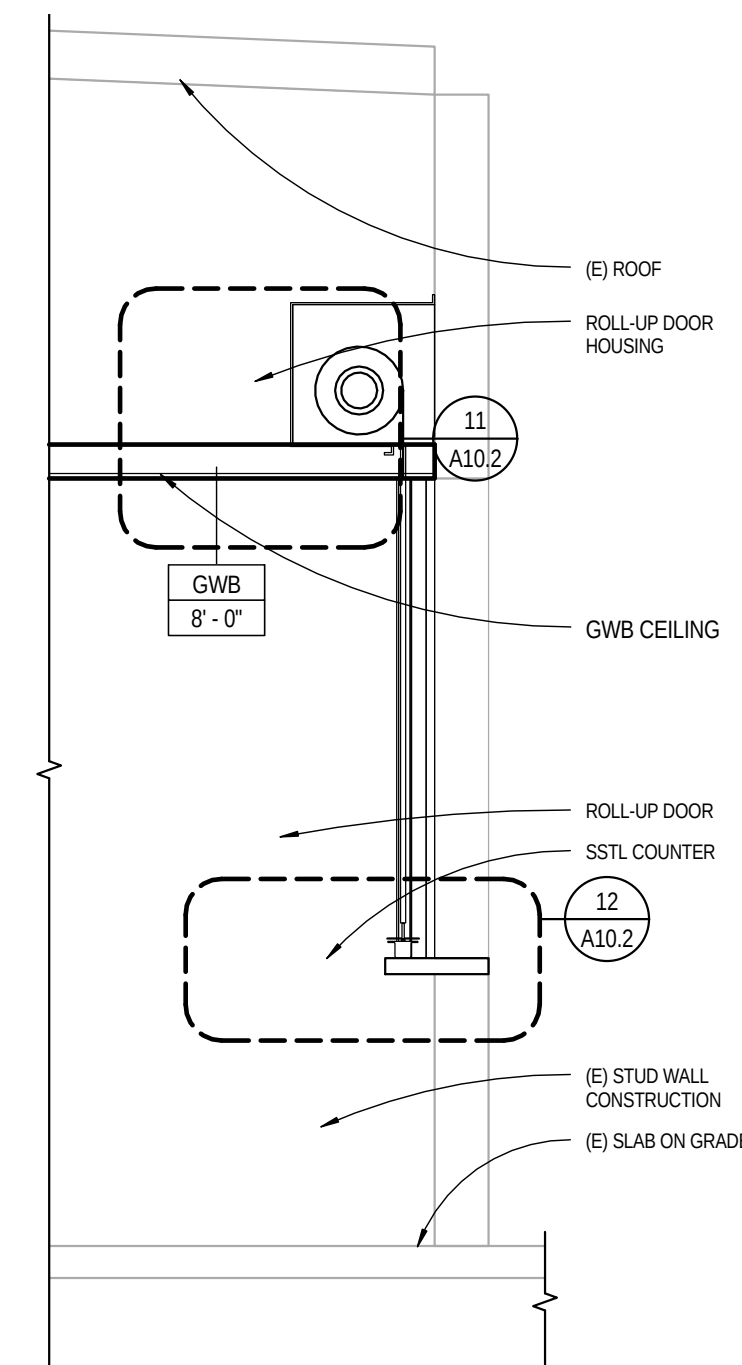
41 MEDIA CENTER @ EAST CIRCULATION
A7.2 SCALE: 1/2" = 1'-0"



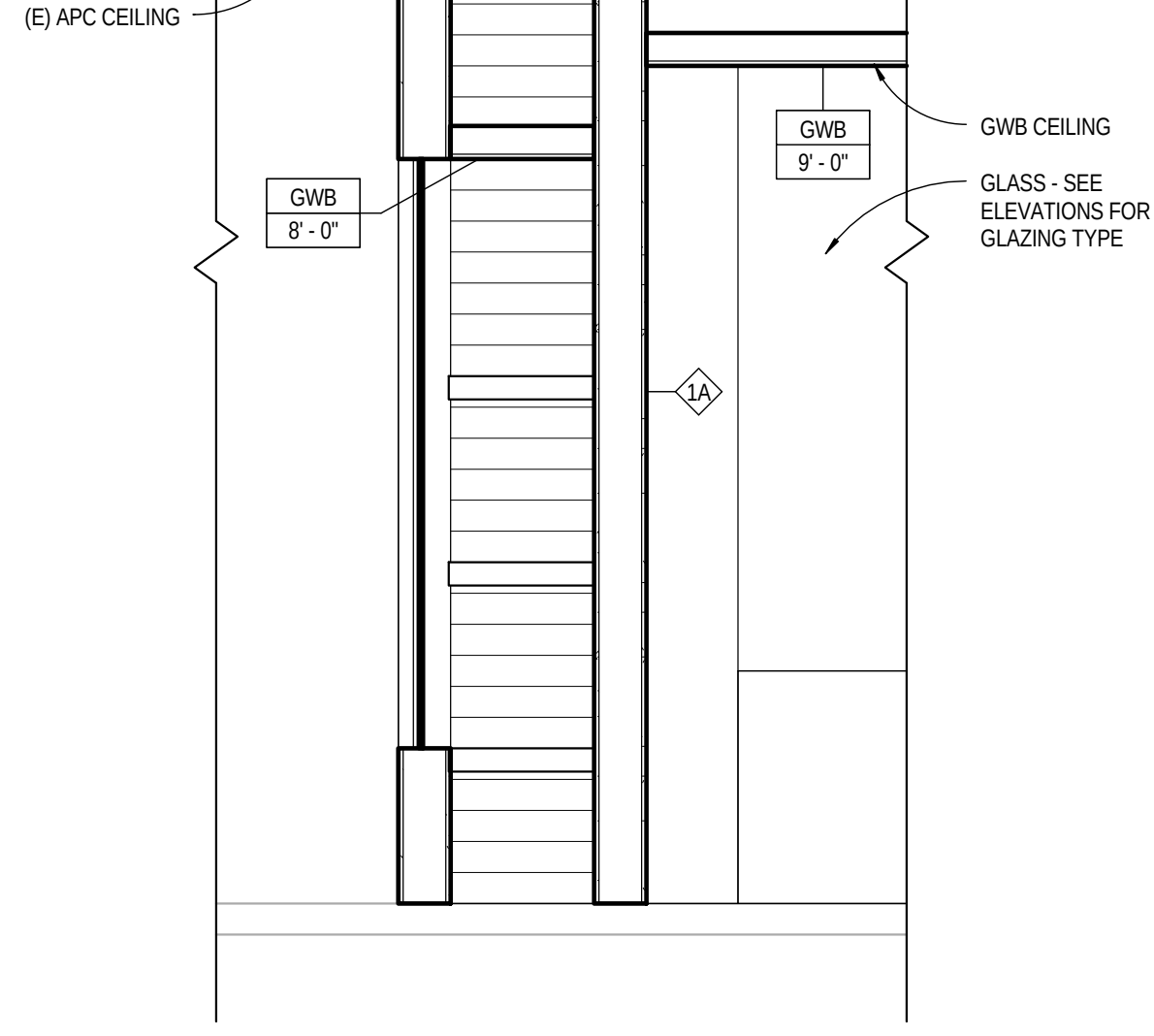
42 MEDIA CENTER @ WEST CIRCULATION
A7.2 SCALE: 1/2" = 1'-0"



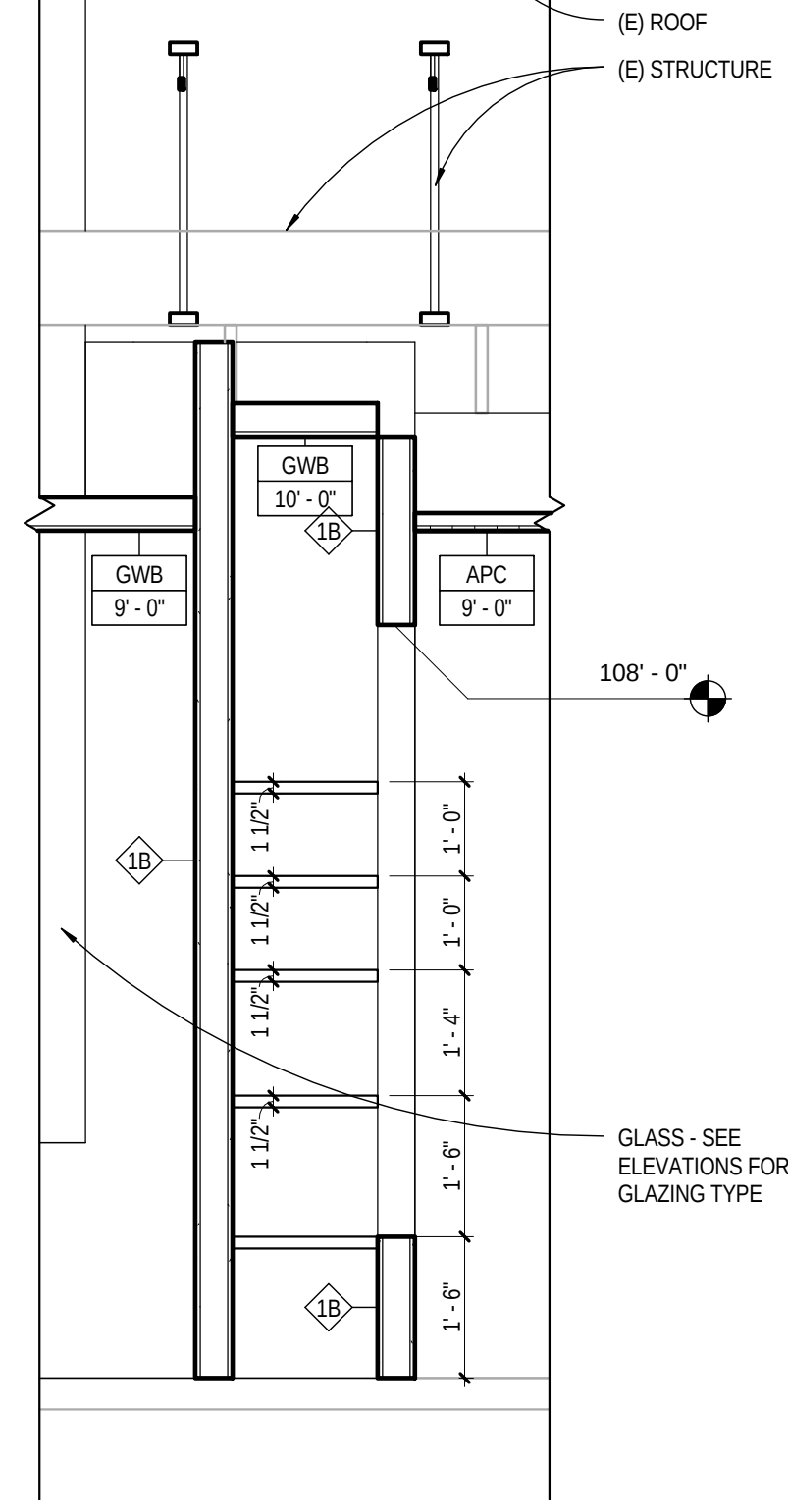
43 MEETING ROOM B @ GLASS PARTITION
A7.2 SCALE: 1/2" = 1'-0"



44 STUDENT STORE @ OVERHEAD COILING DOOR
A7.2 SCALE: 1/2" = 1'-0"



1 MEDIA CENTER @ DISPLAY CASE
A7.3 SCALE: 1/2" = 1'-0"

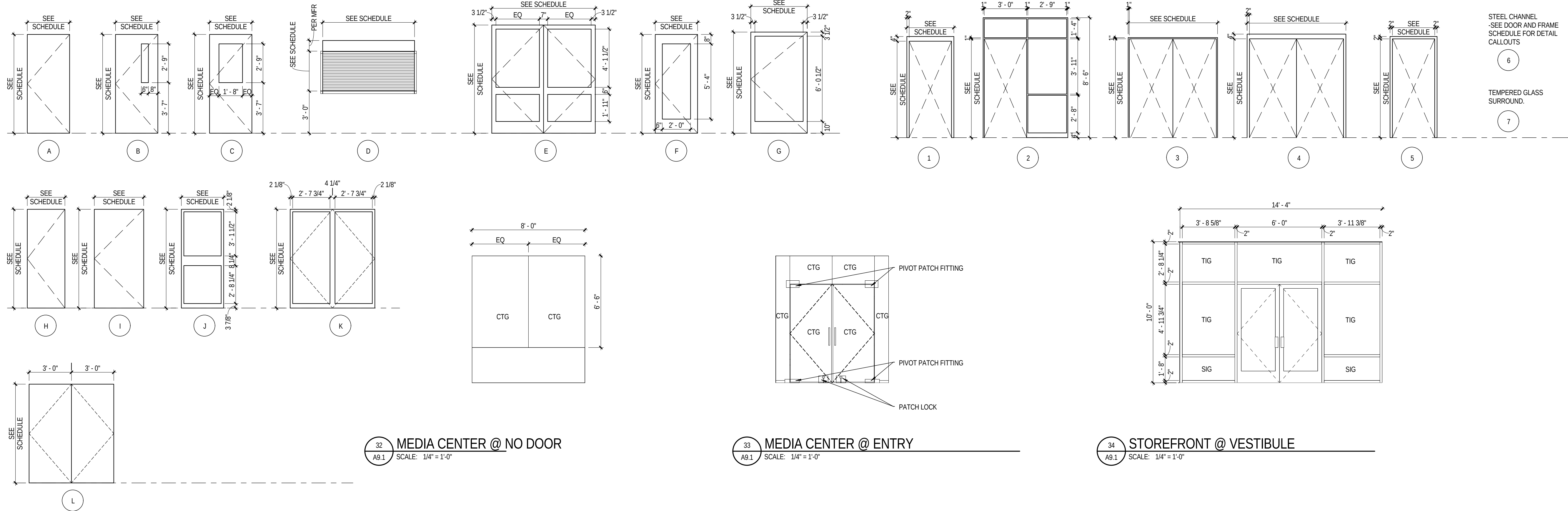


2 SECTION @ MEETING ROOM B CLOSET
A7.3 SCALE: 1/2" = 1'-0"

WINDOW SCHEDULE							
FRAME				FIRE RATING	DETAILS		COMMENTS
NUMBER	TYPE	MATERIAL	DEPTH		HEAD	SILL	
141	FIXED	ALUM	4 1/2"	-	35/A9.2 SIM	35/A10.2 SIM	
142	FIXED	ALUM	4 1/2"	-	35/A9.2 SIM	35/A10.2 SIM	
143	FIXED	ALUM	4 1/2"	-	31/A10.2	31/A10.2	
144	FIXED	ALUM	4 1/2"	-	31/A10.2	31/A10.2	
145	FIXED	ALUM	4 1/2"	120	31/A10.2	31/A10.2	
147	FIXED	ALUM	4 1/2"	120	31/A10.2	31/A10.2	
148	FIXED	ALUM	4 1/2"	-	35/A9.2	15/A9.2	
150	FIXED	HM	4 1/2"	-	31/A10.2	31/A10.2	INTEGRAL BLINDS, OPERATION SHALL BE ON RECEPTION SIDE
151	RECESSED FIXED	ALUM	3 1/4"	-	45/A9.2	45/A9.2	VERTICAL BUTT JOINTS

ALL EXISTING DOOR TO BE MODIFIED ARE TO MAINTAIN ORIGINAL DOOR, HINGE AND FRAME. DOOR PANEL AND FRAMES TO BE MODIFIED TO RECIEVE NEW HARDWARE SETS AS SPECIFIED.

EXISTING DOOR AND FRAME SCHEDULE								
DOOR				FRAME		HARDWARE SET	COMMENTS	
NUMBER	NO. OF PANELS	WIDTH	HEIGHT	THICKNE SS	MATERIAL	DEPTH		
E1	1	3'-0"	7'-0"	1 3/4"	HM	6 7/8"	HM	3
E2	2	3'-0"	0"	2"	ALUM	4 1/2"	ALUM	15
E3	1	3'-0"	7'-0"	1 3/4"	HM	5 7/8"	HM	3
E4	1	3'-0"	7'-0"	1 3/4"	HM	5 7/8"	HM	3
E5	1	3'-0"	7'-0"	1 3/4"	HM	1'-1 1/4"	HM	3
E6	1	3'-0"	7'-0"	1 3/4"	HM	5 7/8"	HM	3
E7	2	3'-0"	7'-0"	1 3/4"	HM	5 7/8"	HM	15
E8	2	3'-0"	7'-0"	1 3/4"	HM	5 7/8"	HM	15
E9	2	3'-0"	7'-0"	1 3/4"	HM	5 7/8"	HM	9
E10	2	3'-0"	7'-0"	1 3/4"	HM	5 7/8"	HM	9
E11	2	3'-0"	7'-0"	1 3/4"	HM	5 7/8"	HM	9
E12	2	3'-0"	7'-0"	1 3/4"	HM	5 7/8"	HM	15
E13	1	3'-0"	7'-0"	1 3/4"	HM	9"	HM	3
E14	1	3'-0"	7'-0"	1 3/4"	HM	9"	HM	3
E285	1	3'-0"	7'-0"	1 3/4"	HM	7 3/4"	HM (E)	



32 MEDIA CENTER @ NO DOOR
A9.1 SCALE: 1/4" = 1'-0"

33 MEDIA CENTER @ ENTRY
A9.1 SCALE: 1/4" = 1'-0"

34 STOREFRONT @ VESTIBULE
A9.1 SCALE: 1/4" = 1'-0"

41 STOREFRONT @ STUDENT ENTRY
A9.1 SCALE: 1/4" = 1'-0"

42 STOREFRONT @ STUDENT ENTRY - NO DOOR
A9.1 SCALE: 1/4" = 1'-0"

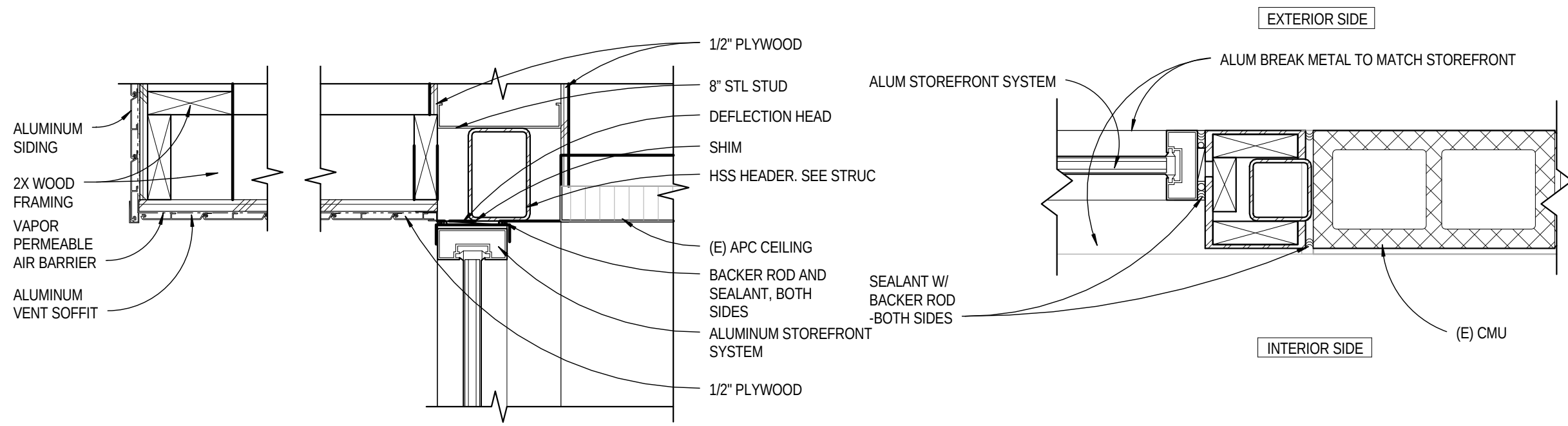
43 STOREFRONT @ RECEPTION / ADMIN
A9.1 SCALE: 1/4" = 1'-0"

GENERAL NOTES

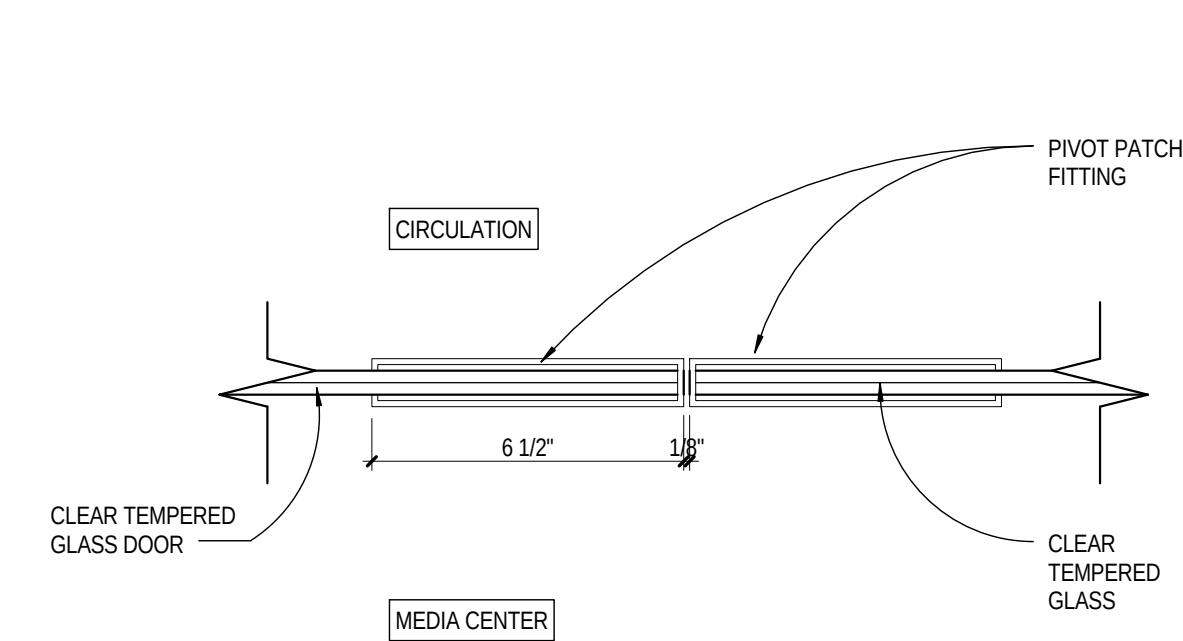
LEGEND NOTES ARE COMMON TO ALL
SOME NOTES MAY NOT APPLY TO THIS SHEET

DOOR AND WINDOW FRAME SCHEDULE GENERAL NOTES

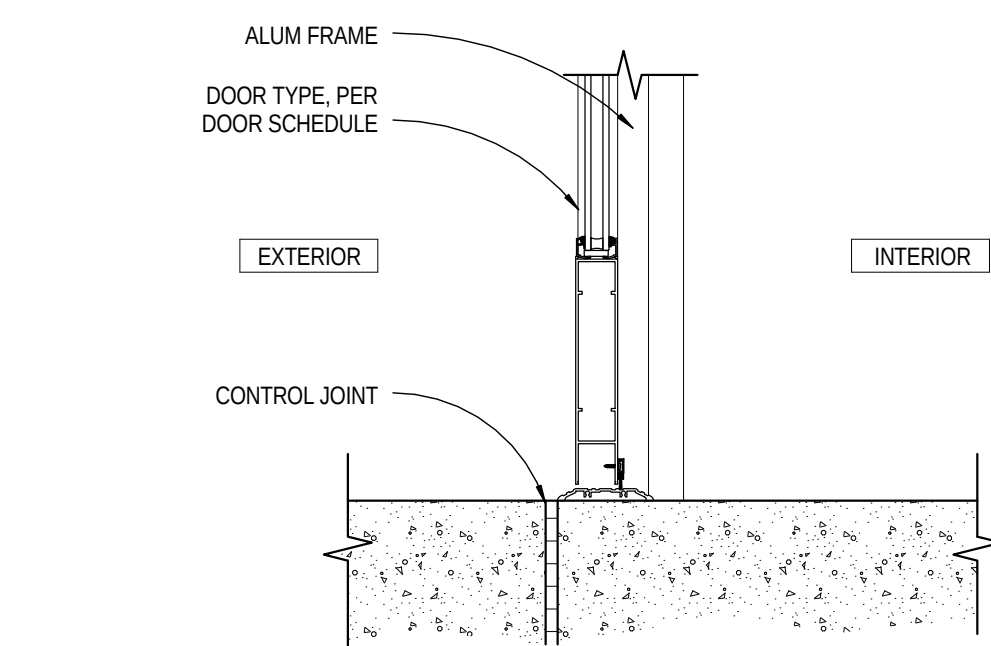
- ALL HOLLOW METAL FRAMES SHALL BE GROUTED SOLID IN CMU CONSTRUCTION.
- ALL EXTERIOR FRAMES SHALL BE INSTALLED WITH 1/4" SHIM AND SEALANT AROUND PERIMETER OF FRAME UNLESS NOTED OTHERWISE.
- MASONRY LINTELS AND STEEL LINTELS ARE SHOWN ON STRUCTURAL DRAWINGS.
- INSTALL FIRE RESISTIVE GLAZING (FRGL) AT ALL RATED DOORS WITH GLASS PANELS. INSTALL TINTED TEMPERED INSULATED GLASS (ITIG) AT ALL EXTERIOR DOORS.
- NOT USED
- FRAME ELEVATIONS ARE FOUND ON SHEETS A9.1.
- FOR COILING DOORS, COILING GRILLES, COUNTER DOORS, AND SECTIONAL OVERHEAD DOORS, WIDTH AND HEIGHT DIMENSIONS SHOWN IN DOOR AND FRAME SCHEDULE REPRESENT CLEAR OPENING SIZE. CONTRACTOR TO COORDINATE EXACT SIZE OF DOOR WITH MANUFACTURER.
- SEE TYPICAL DETAILS FOR GWS CONTROL JOINTS THAT OCCUR AT DOOR FRAMES IN WOOD STUD WALLS.
- PROVIDE SMOKE GASKET AT ALL RATED DOORS AND FRAMES.
- SEE PROJECT MANUAL "DOOR HARDWARE SCHEDULE" FOR HARDWARE SETS FOR INDIVIDUAL DOORS AND TO COORDINATE LOCATIONS FOR ELECTRICAL ROUGH-INS REQUIRED
- REMOVABLE GLASS STOPS TO BE ON THE NON-CORRIDOR SIDE OF THE FRAMES, U.N.O.
- SEE SHEETS A9.2-A9.3 FOR HEAD/JAMB/SILL DETAILS.
- DIMENSIONS OF ALL OPENINGS SHALL BE FIELD VERIFIED PRIOR TO FABRICATION.
- ALL HOLLOW METAL FRAMES TO BE OFFSET 1/2" FROM FACE OF CMU WALL, U.N.O.
- ALL DOOR AND WINDOW JAMBS IN WOOD STUD WALLS SHALL BE OFFSET 2" FROM ADJACENT PERPENDICULAR WALLS, U.N.O. ALL DOOR AND WINDOW JAMBS IN CMU WALLS SHALL BE OFFSET 8" FROM ADJACENT PERPENDICULAR WALLS, U.N.O.
- PAINT EXTERIOR HOLLOW METAL DOORS AND FRAMES (HIGH PERFORMANCE COATING) TO MATCH ADJACENT SURFACE COLOR TYP., U.N.O.



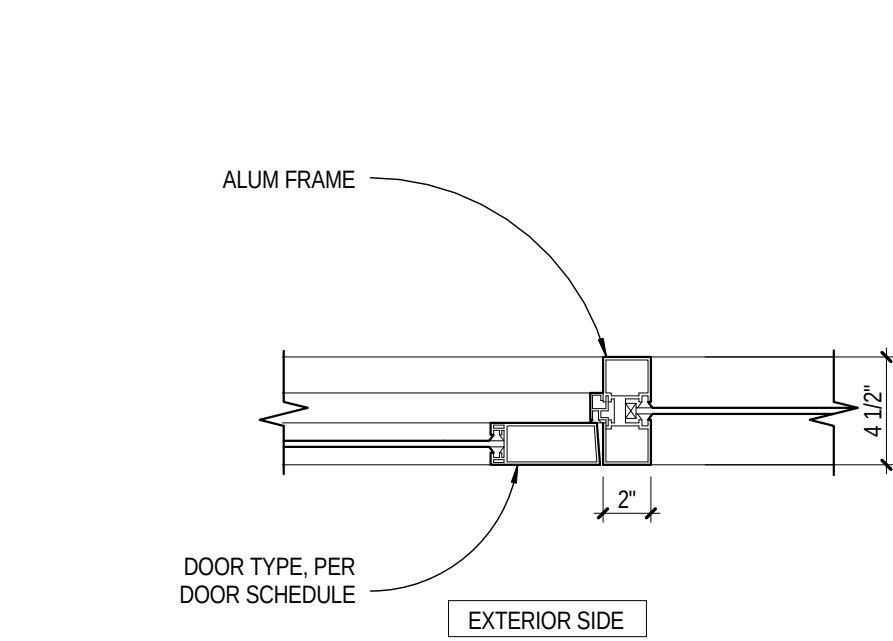
11 OVERHEAD WALL @ STOREFRONT
A9.2 SCALE: 1 1/2" = 1'-0"



21 GLASS JAMB @ LIBRARY
A9.2 SCALE: 3" = 1'-0"

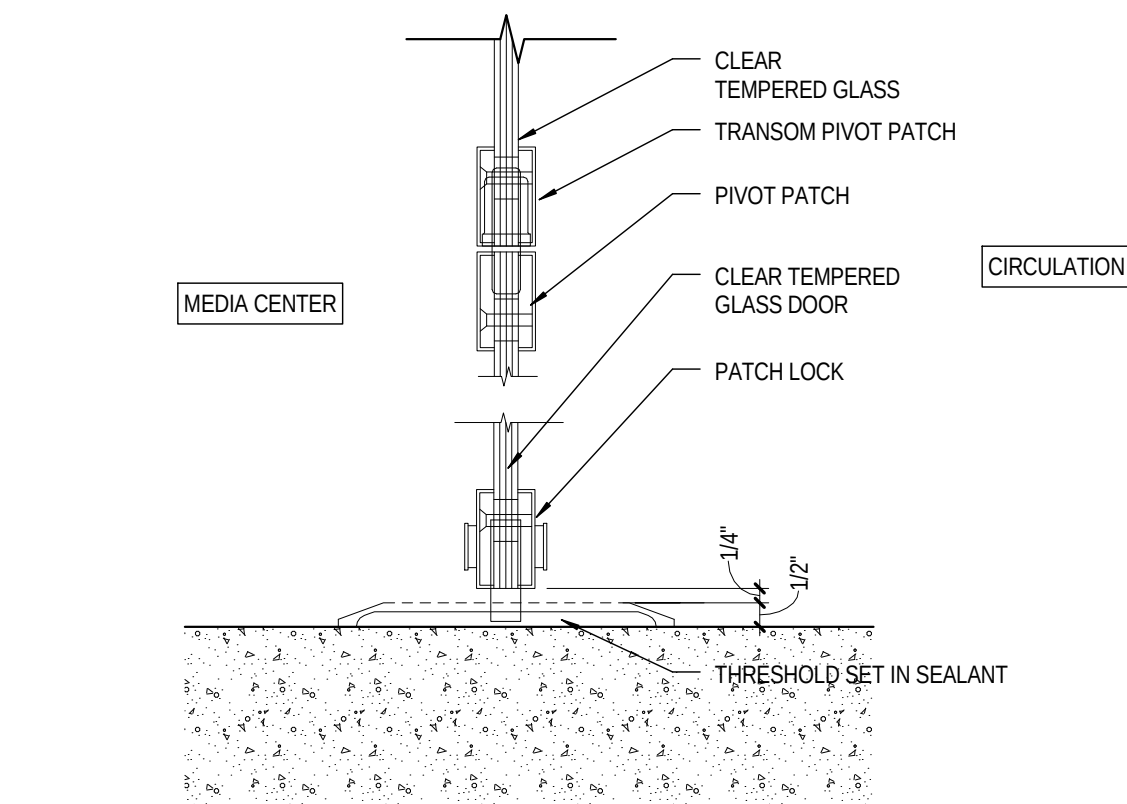


31 ALUM SILL @ DOOR FRAME
A9.2 SCALE: 1 1/2" = 1'-0"

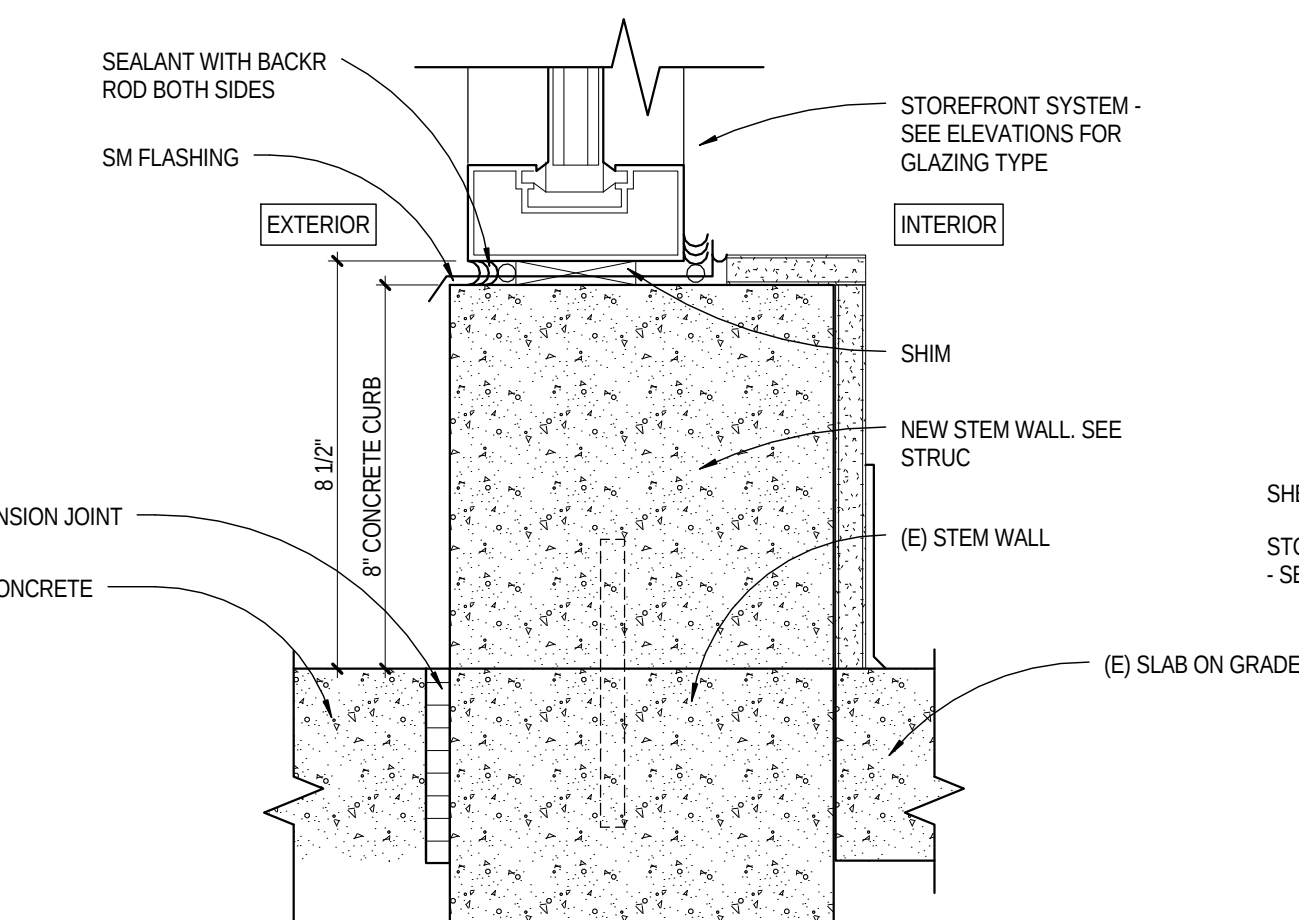


41 ALUM JAMB @ DOOR FRAME
A9.2 SCALE: 1 1/2" = 1'-0"

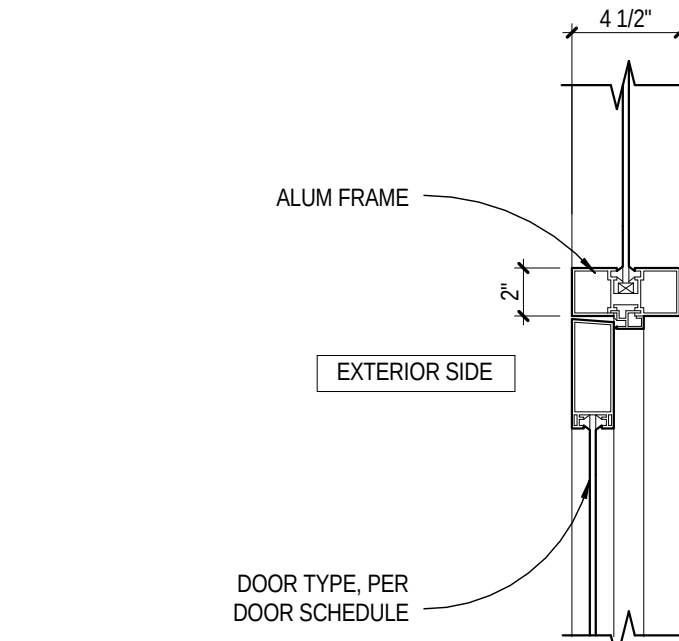
12 STOREFRONT JAMB - ENTRY 2
A9.2 SCALE: 1 1/2" = 1'-0"



22 GLASS HEAD @ LIBRARY
A9.2 SCALE: 3" = 1'-0"

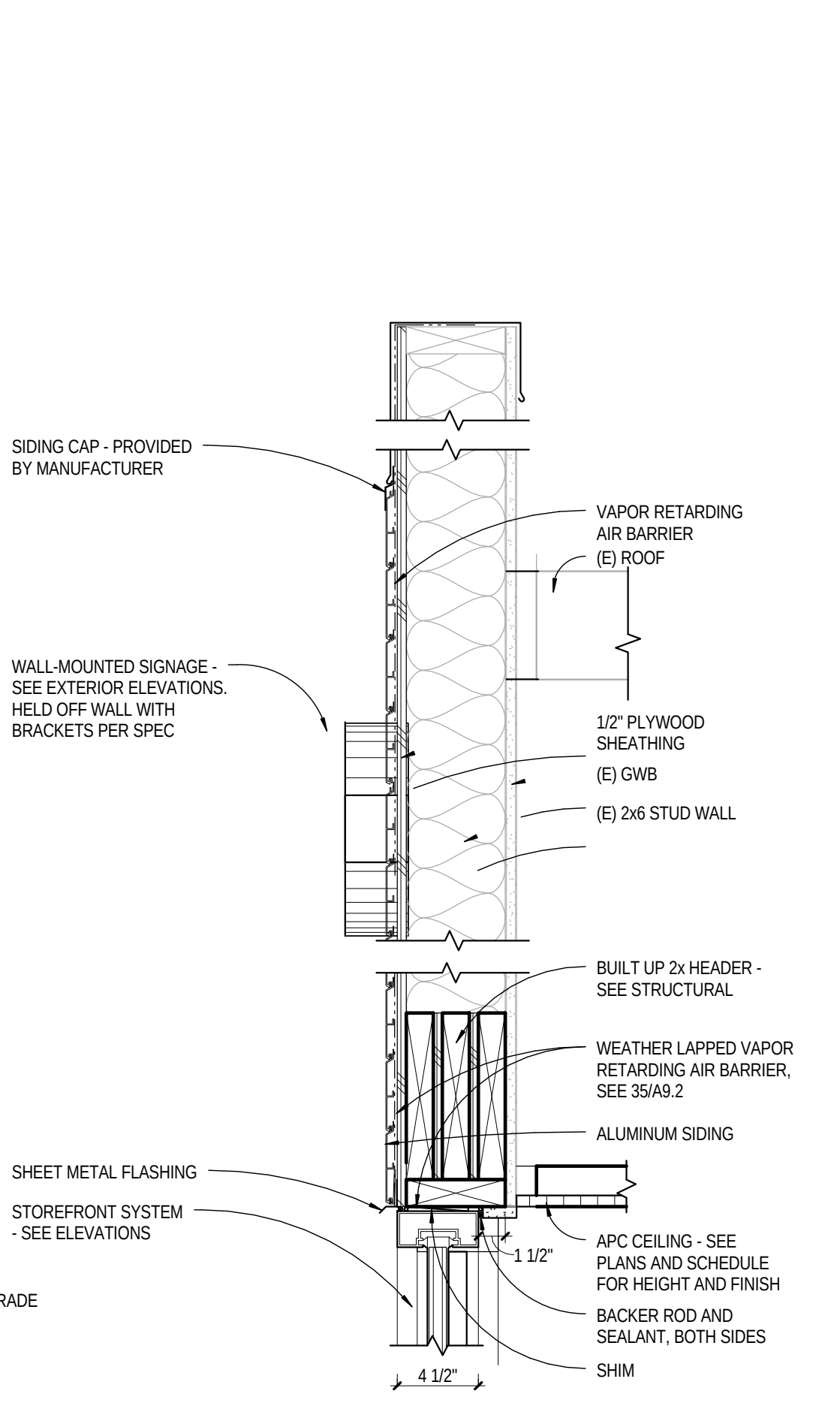


32 STOREFRONT SILL @ EXISTING GRADE
A9.2 SCALE: 3" = 1'-0"

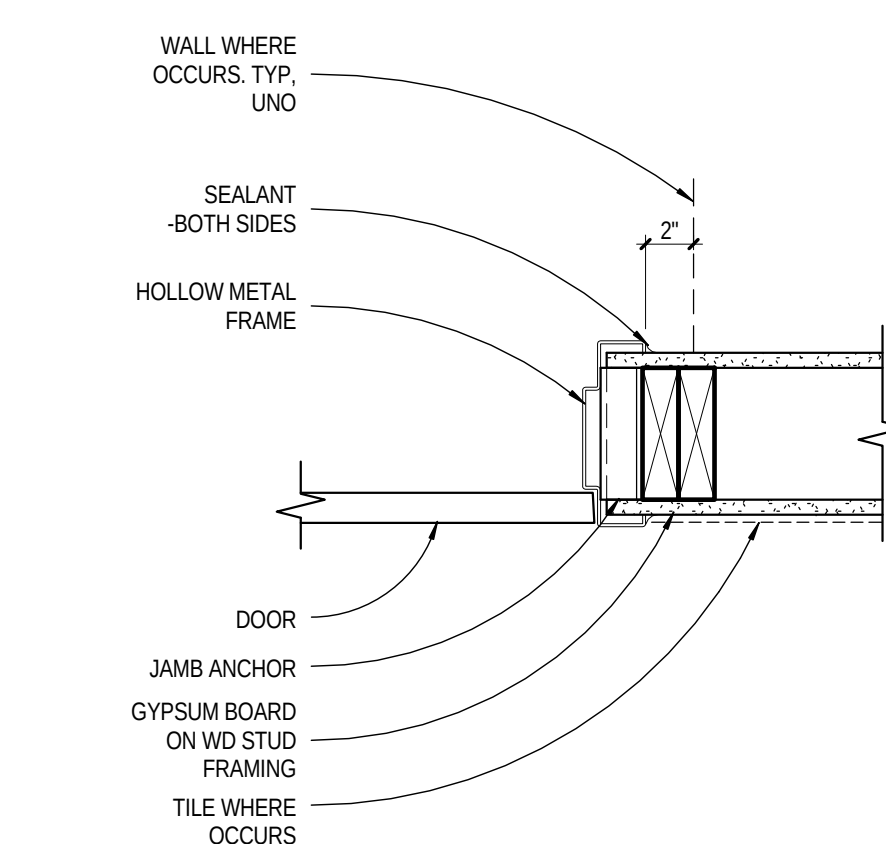


42 ALUM HEAD @ DOOR FRAME
A9.2 SCALE: 1 1/2" = 1'-0"

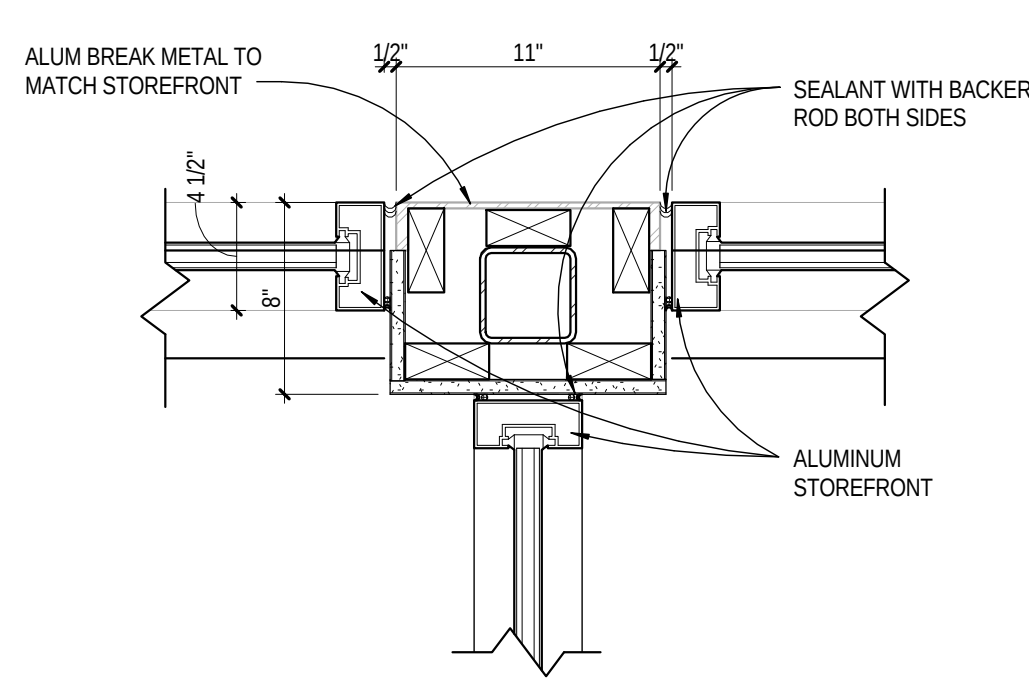
13 VESTIBULE EXT
A9.2 SCALE: 1 1/2" = 1'-0"



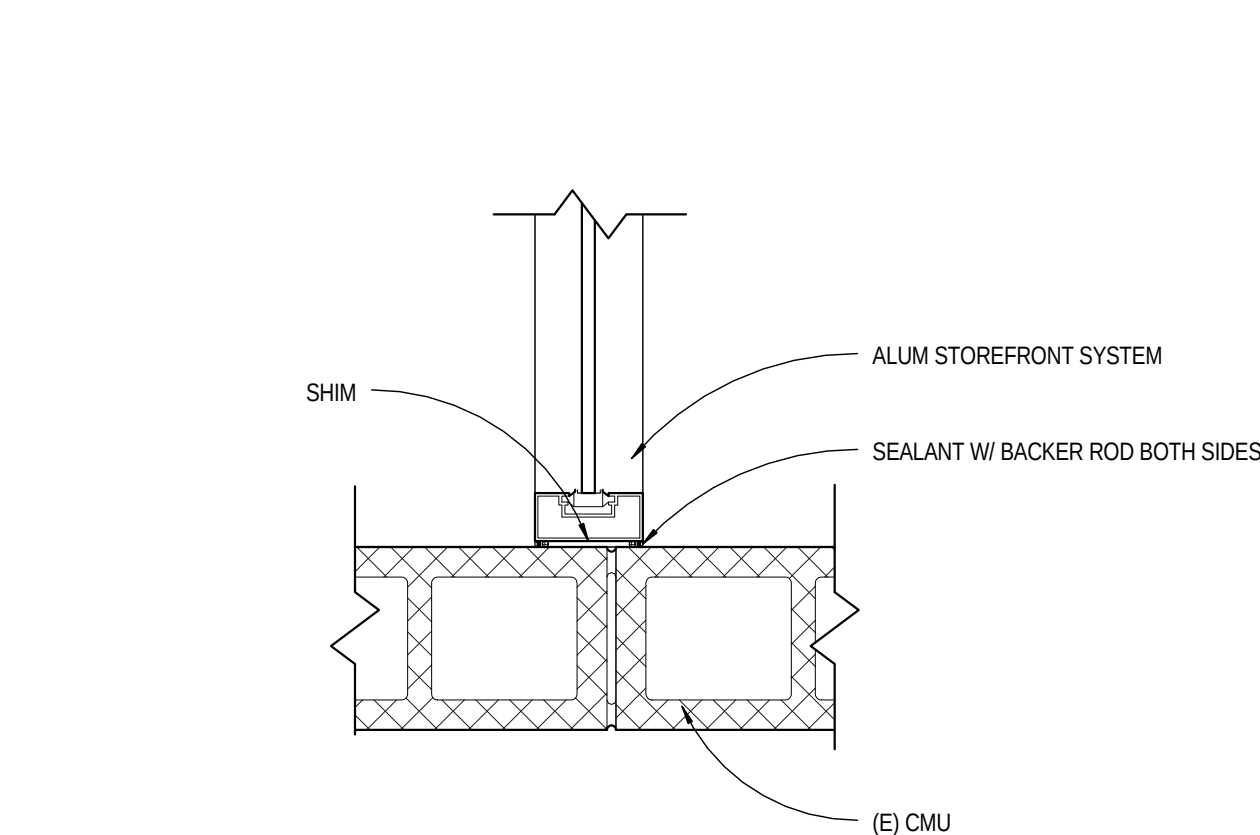
33 STOREFRONT HEAD @ OVERHEAD WALL
A9.2 SCALE: 1 1/2" = 1'-0"



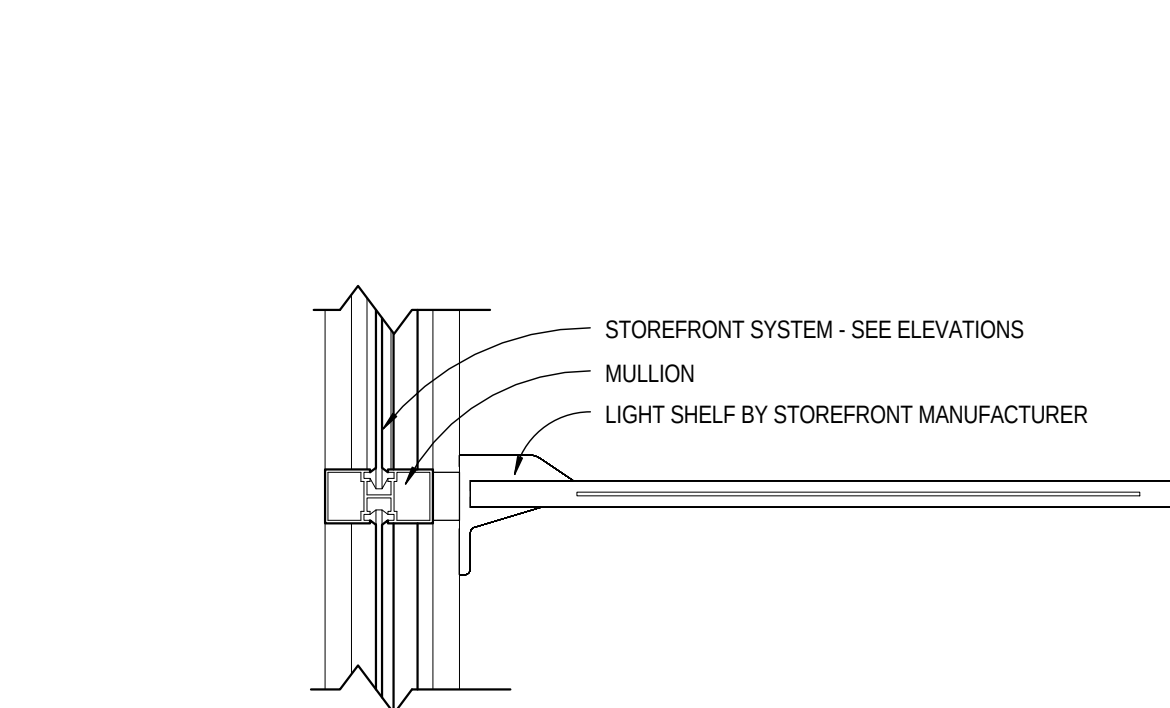
43 INT JAMB
A9.2 SCALE: 1 1/2" = 1'-0"



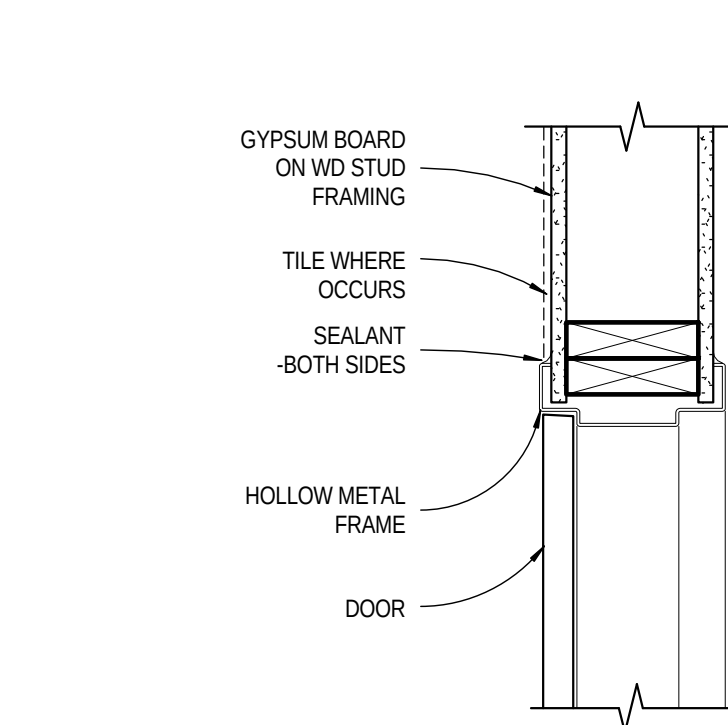
14 STOREFRONT JAMB - NEW WALL
A9.2 SCALE: 3" = 1'-0"



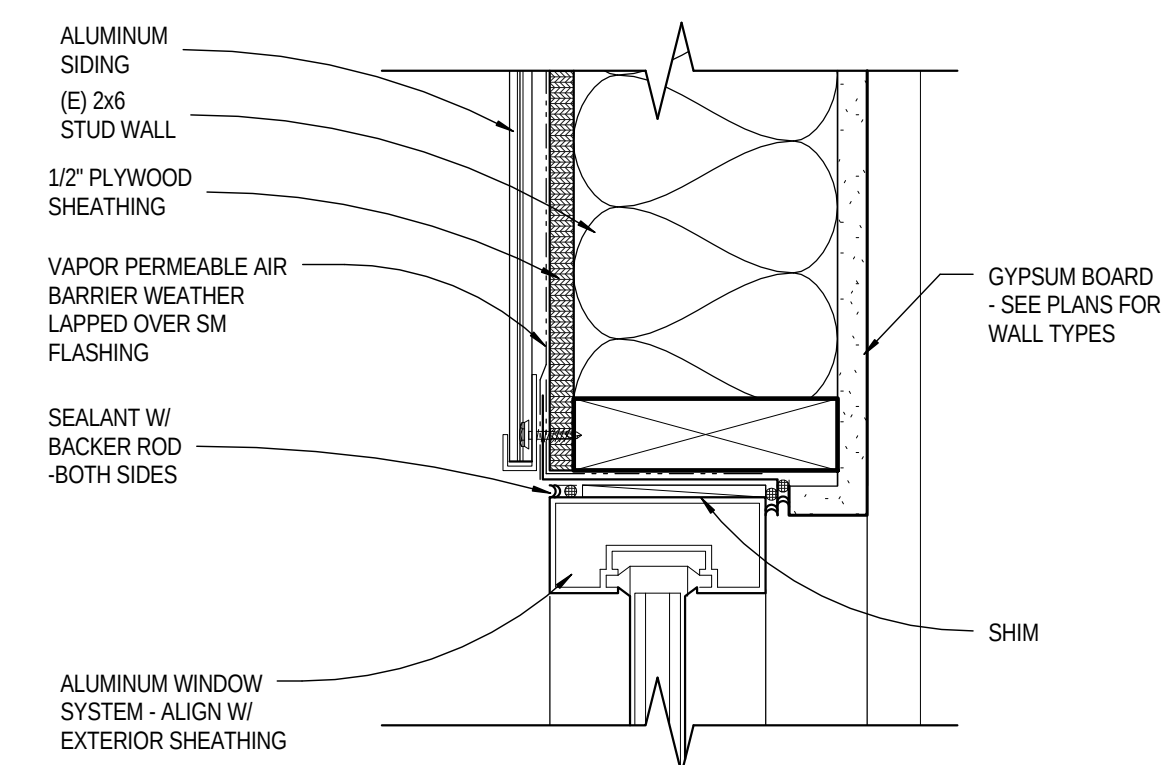
24 VESTIBULE INT
A9.2 SCALE: 1 1/2" = 1'-0"



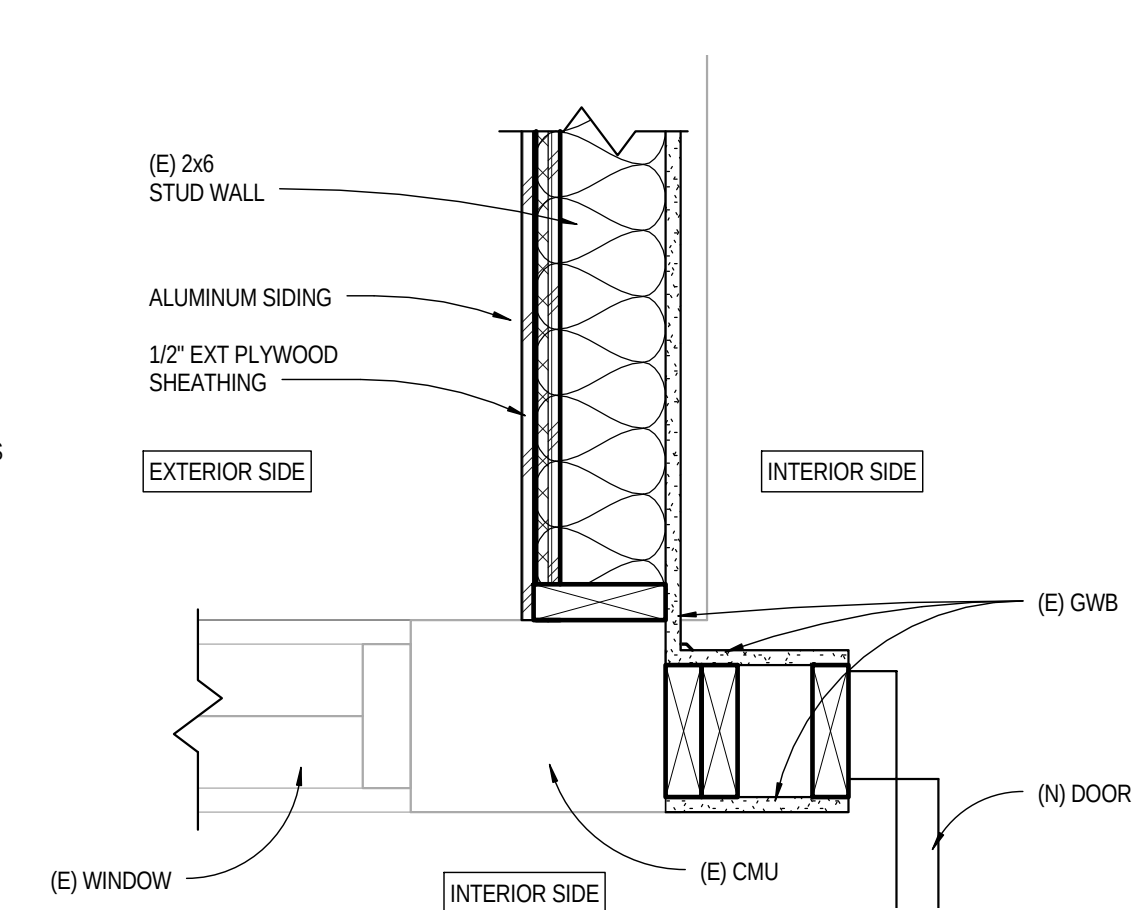
34 STOREFRONT MULLION @ LIGHT SHELF
A9.2 SCALE: 1 1/2" = 1'-0"



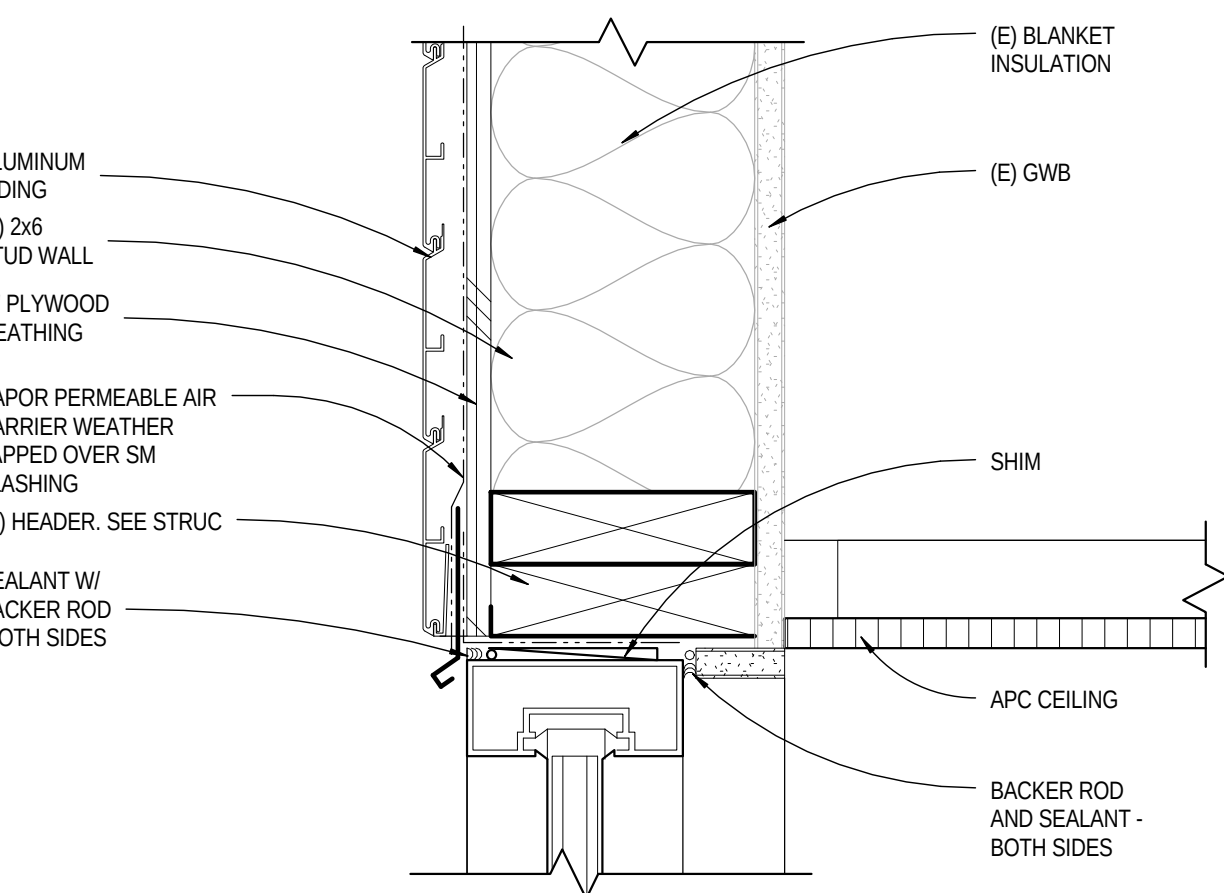
44 INT HEAD
A9.2 SCALE: 1 1/2" = 1'-0"



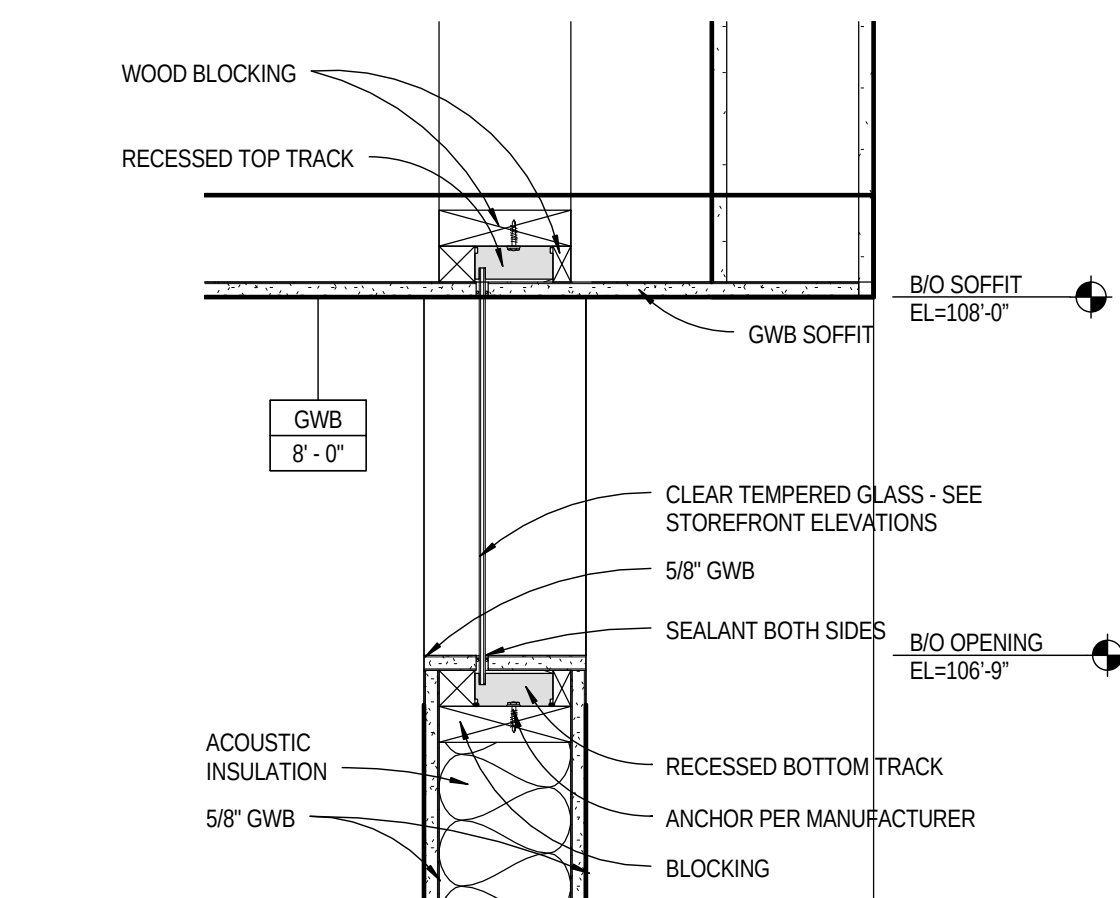
15 STOREFRONT SILL @ ADMIN
A9.2 SCALE: 3" = 1'-0"



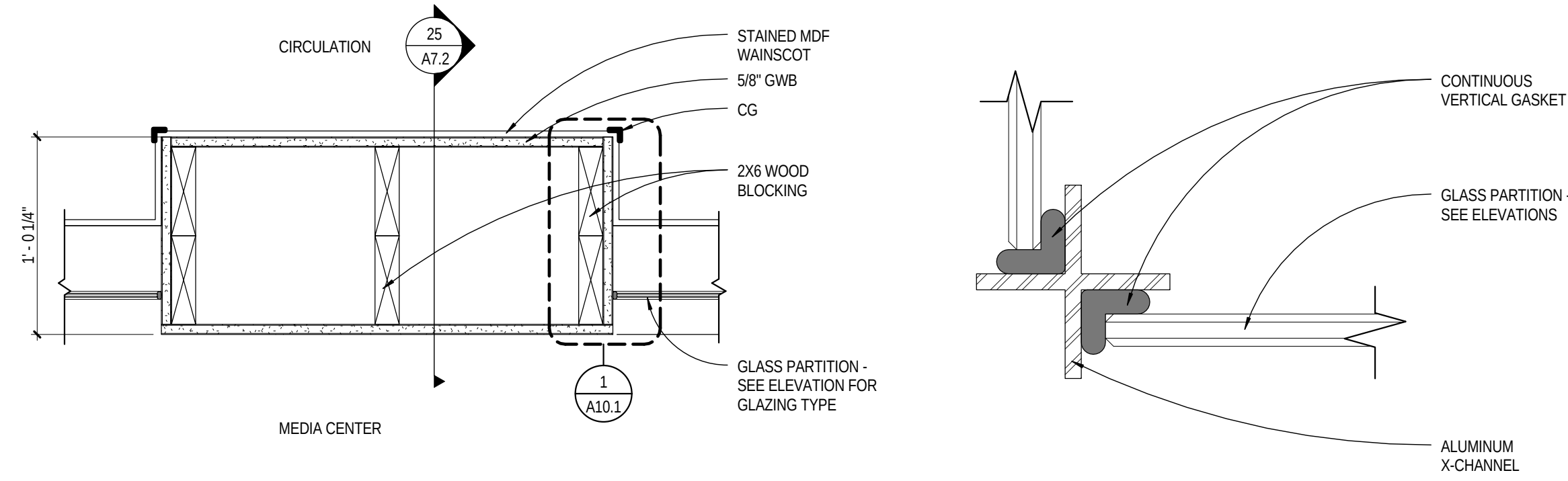
25 INSIDE CORNER
A9.2 SCALE: 1 1/2" = 1'-0"



35 HEAD/JAMB DETAIL @ (N) WINDOW
A9.2 SCALE: 3" = 1'-0"



45 RELIGHT @ MEDIA CENTER
A9.2 SCALE: 1 1/2" = 1'-0"



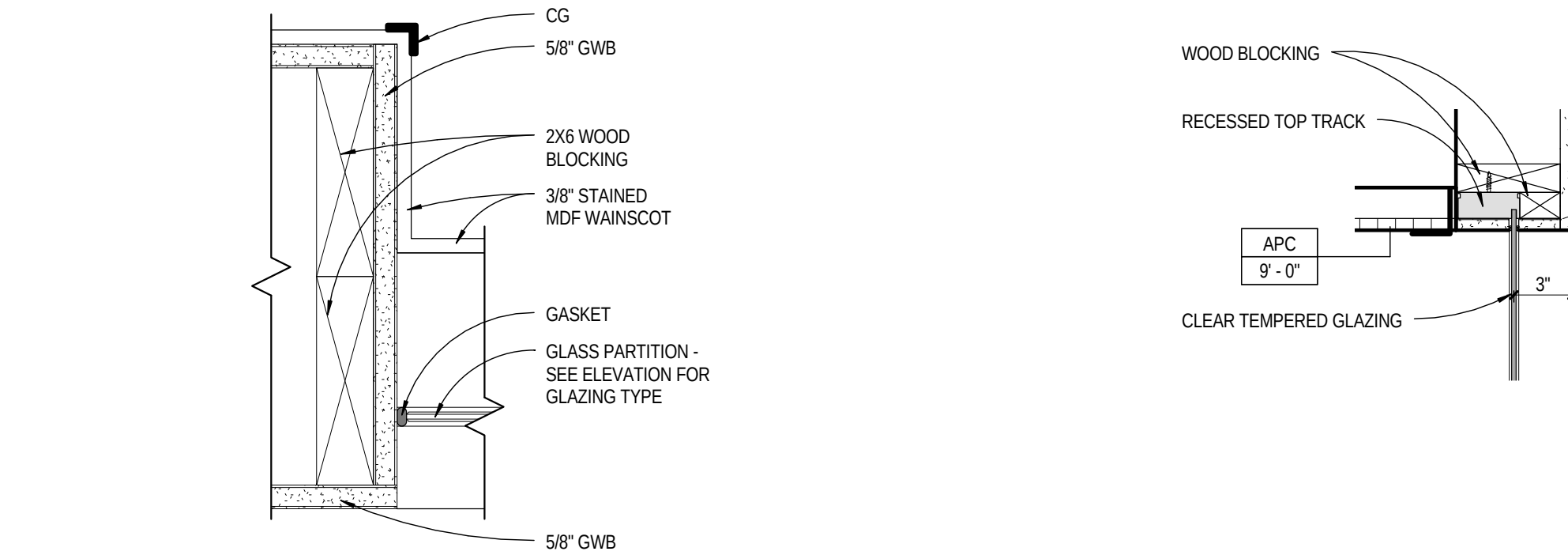
11 PILASTER PLAN DETAIL
SCALE: 1 1/2" = 1'-0"

12 MEETING ROOM @ GLASS CORNER
SCALE: 12" = 1'-0"

13 MEDIA RETURN SLOT @ EXIT
SCALE: 3" = 1'-0"

14 OVERHEAD WALL - BASE CONNECTION
SCALE: 1 1/2" = 1'-0"

15 OVERHEAD WALL @ ENTRY COLUMN
SCALE: 1 1/2" = 1'-0"



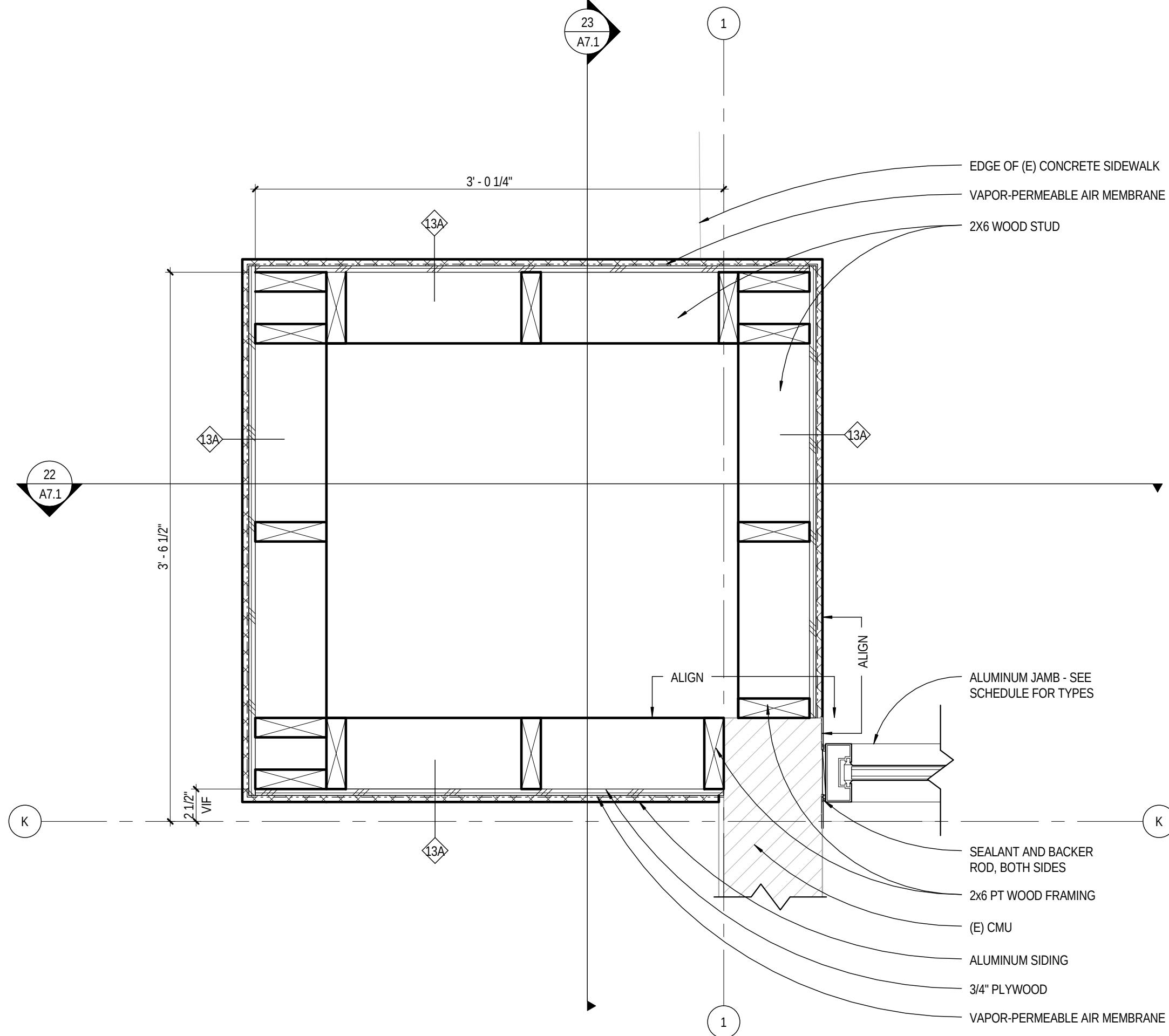
1 PILASTER CORNER DETAIL
SCALE: 3" = 1'-0"

22 MEETING ROOM B @ GLASS PARTITION
SCALE: 1 1/2" = 1'-0"

23 ALUMINUM SIDING @ (E) FASCIA
SCALE: 1 1/2" = 1'-0"

24 MEETING ROOM - GLASS EDGE
SCALE: 3" = 1'-0"

25 OVERHEAD WALL @ NEW PLINTH
SCALE: 1 1/2" = 1'-0"



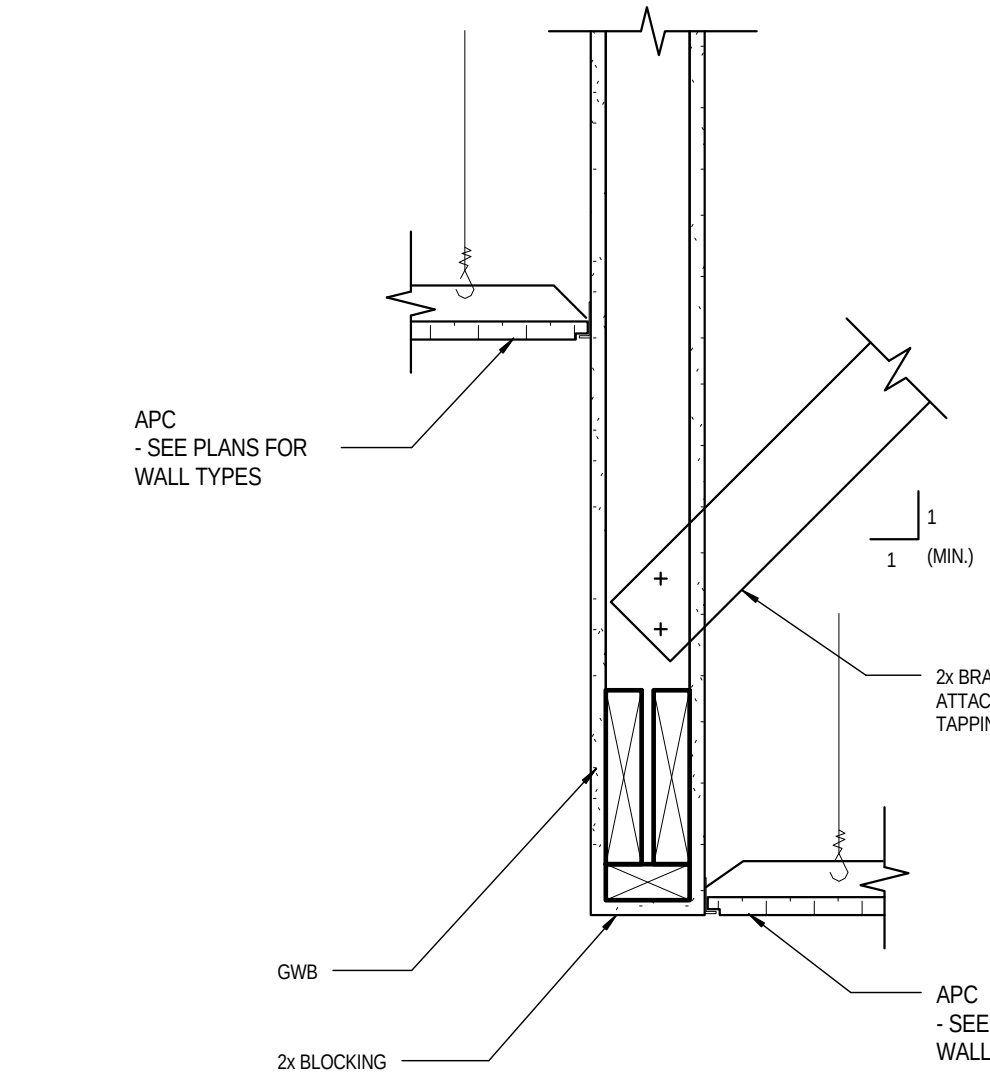
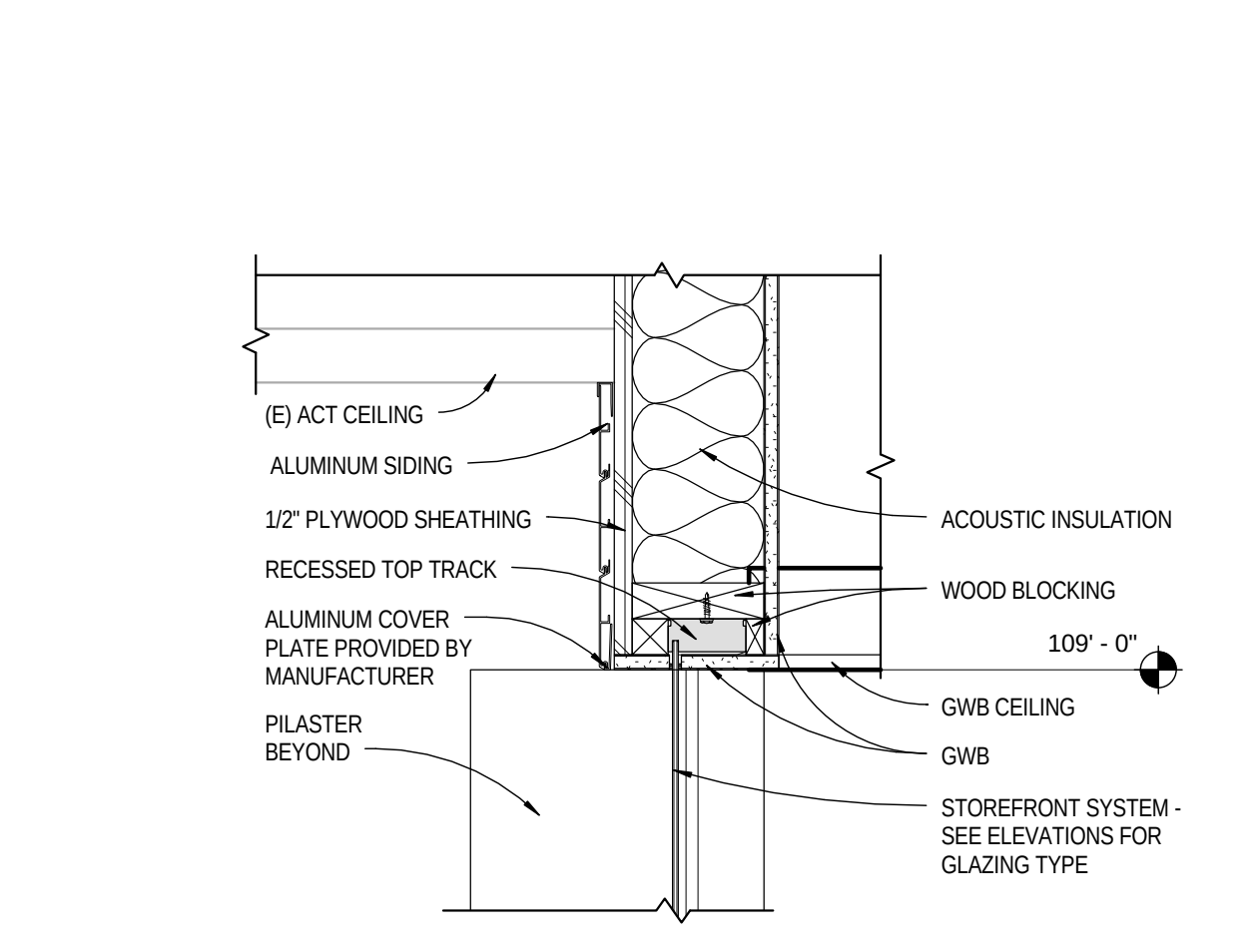
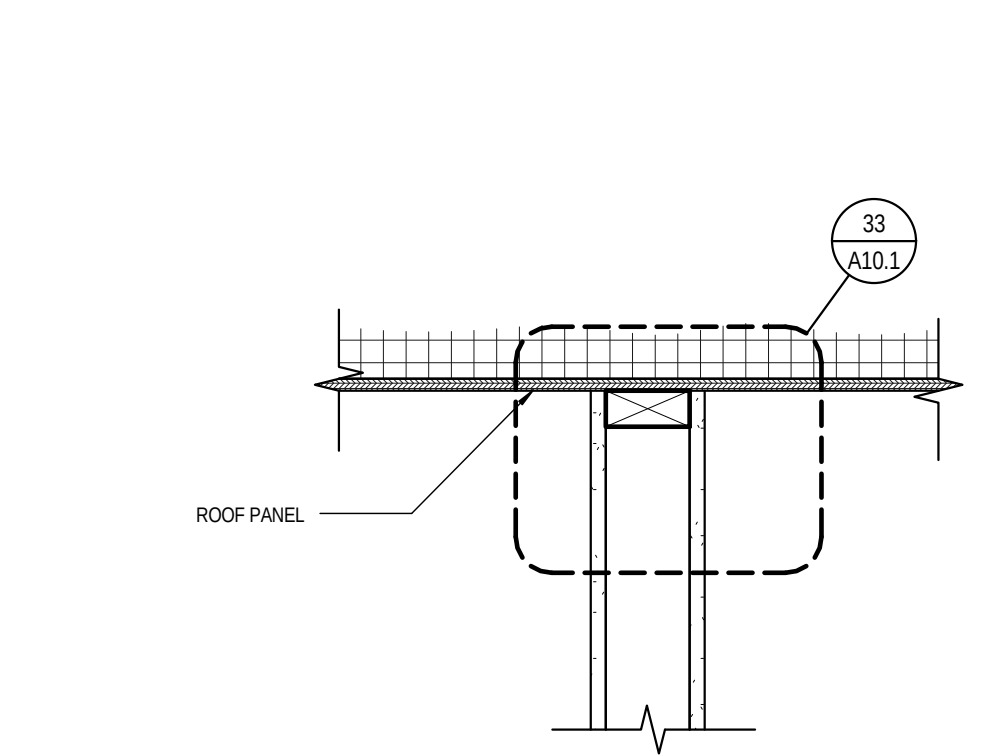
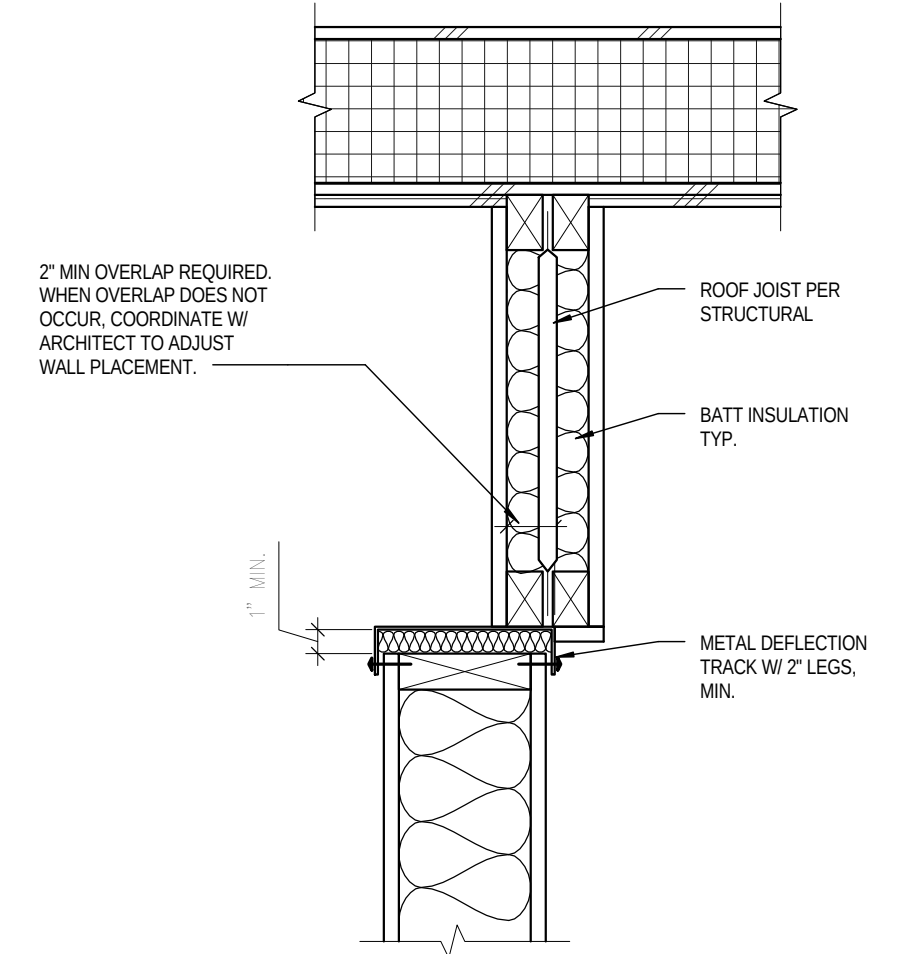
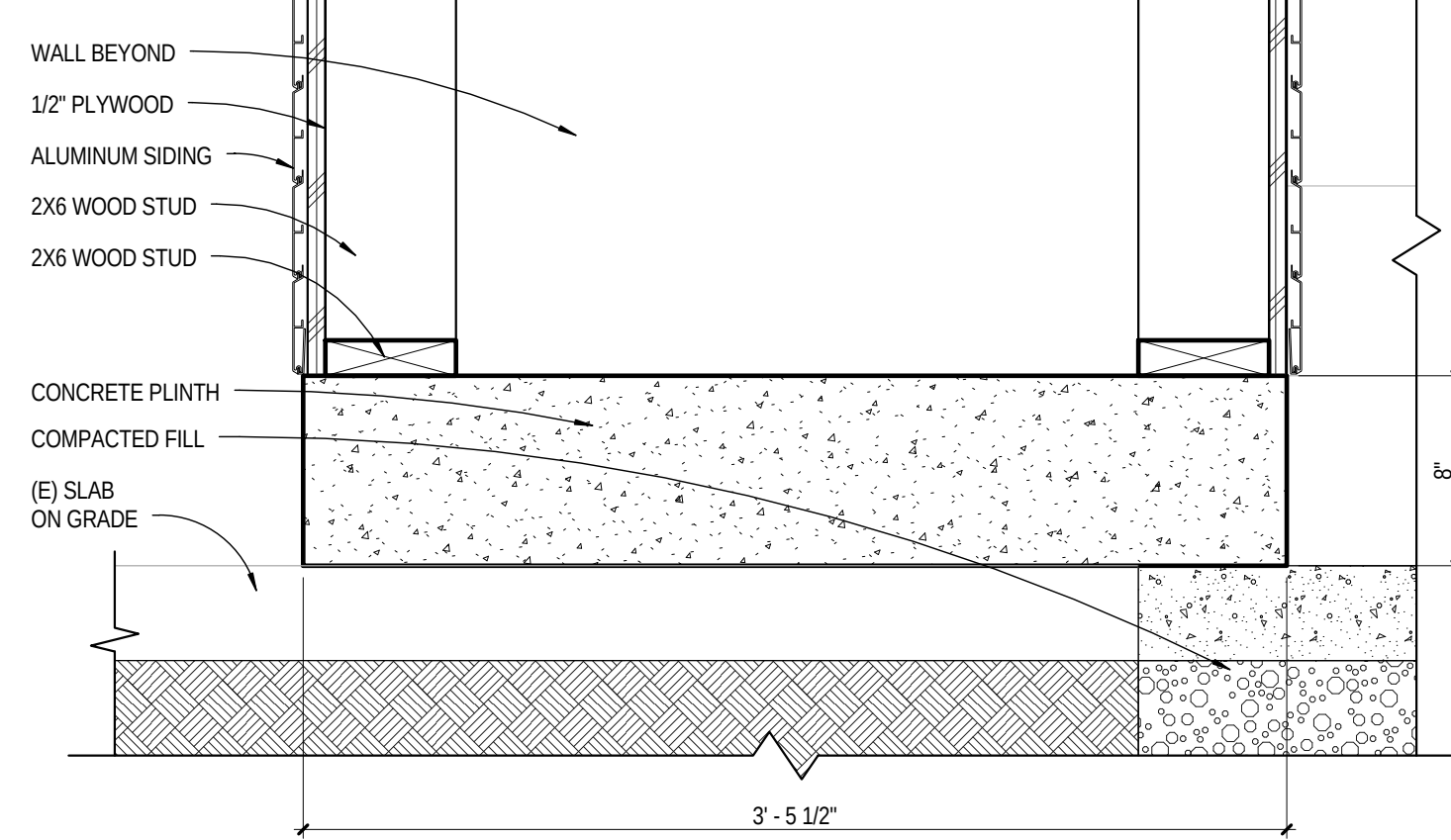
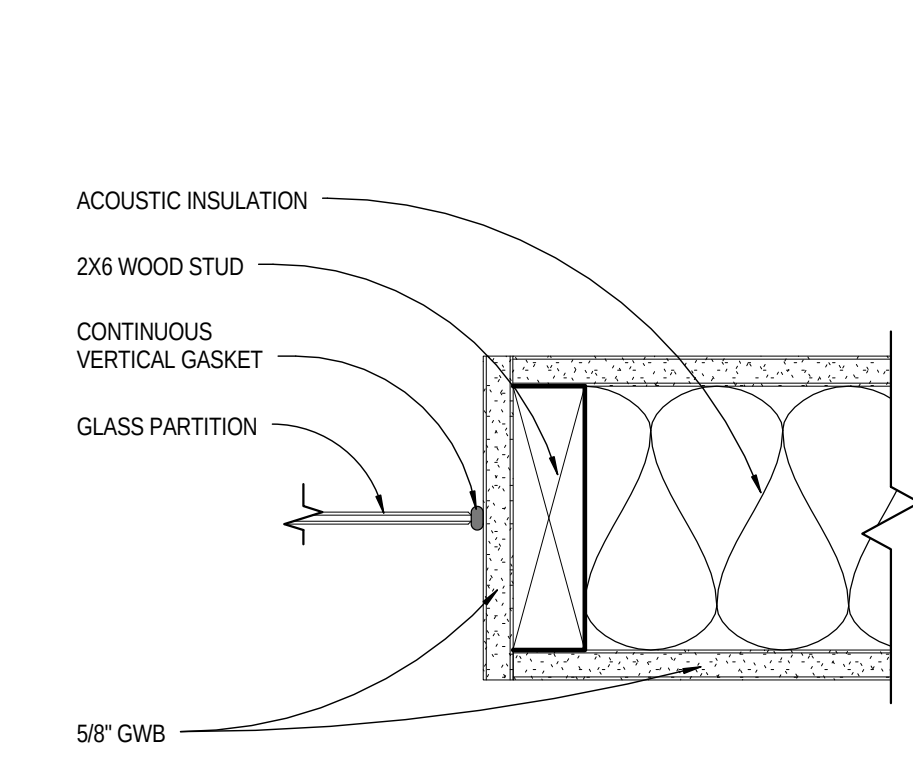
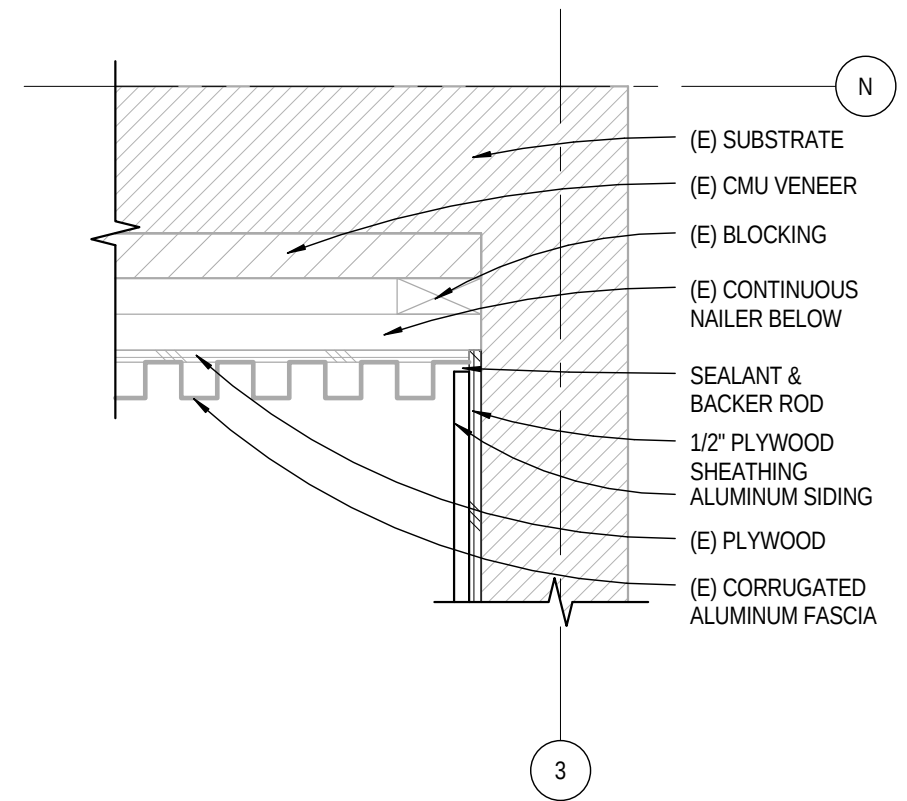
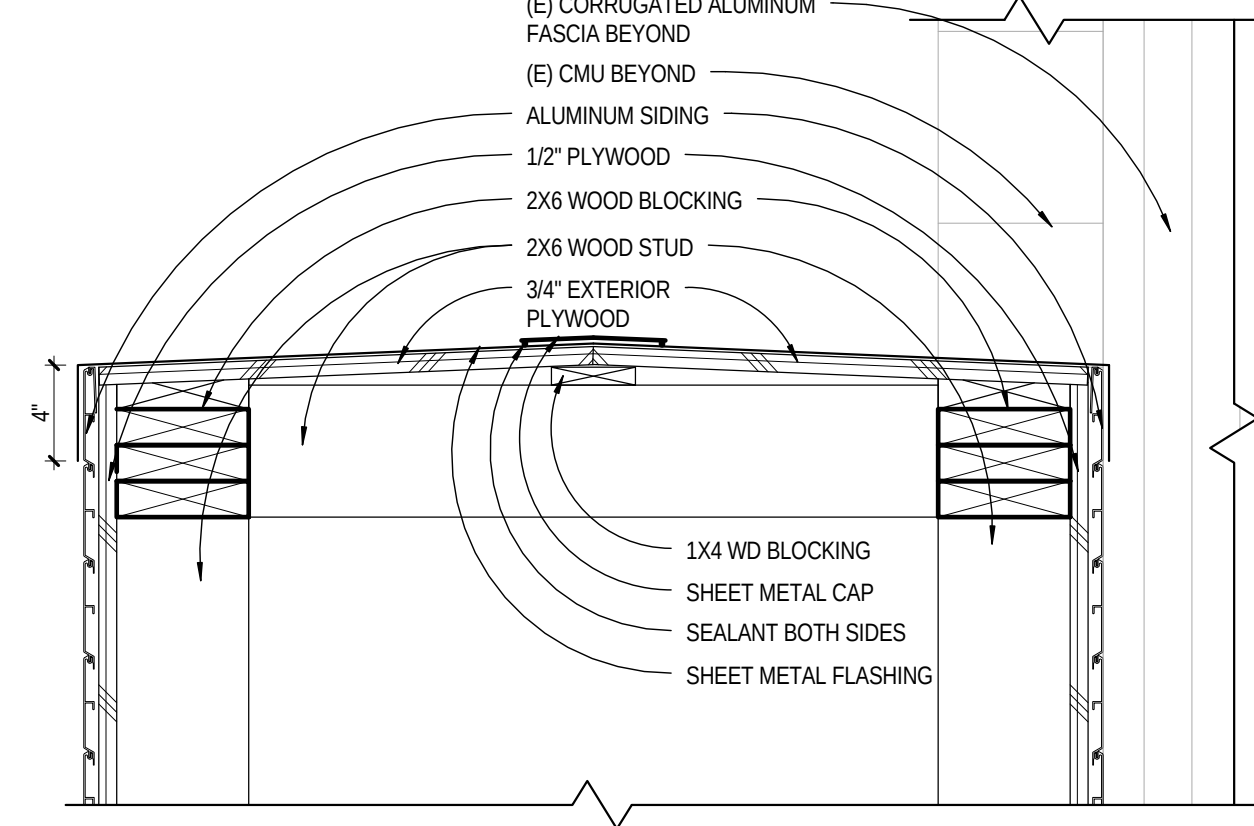
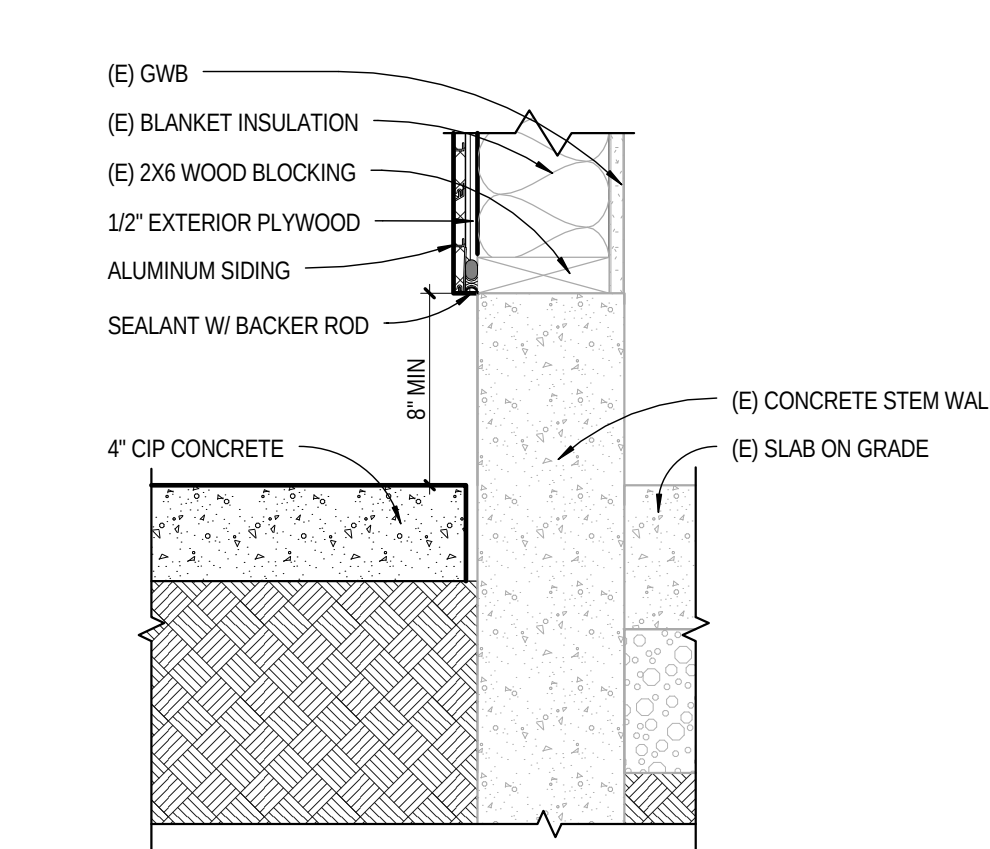
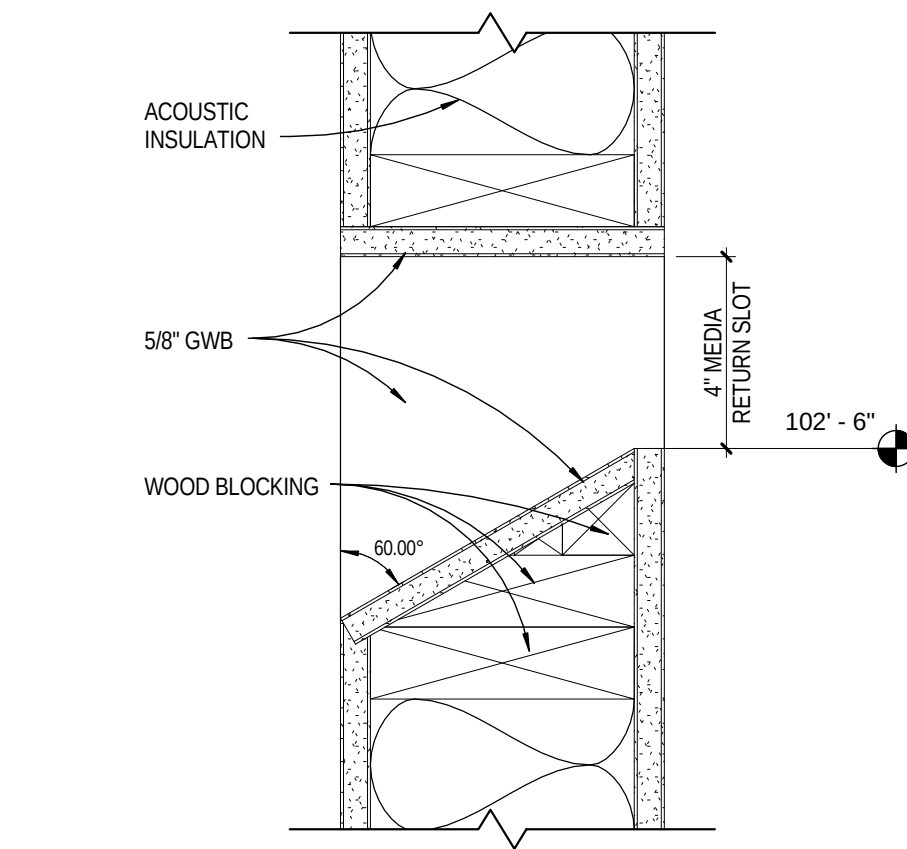
41 OVERHEAD WALL @ CORNER
SCALE: 1 1/2" = 1'-0"

42 MEETING ROOM B @ GLASS PARTITION
SCALE: 1 1/2" = 1'-0"

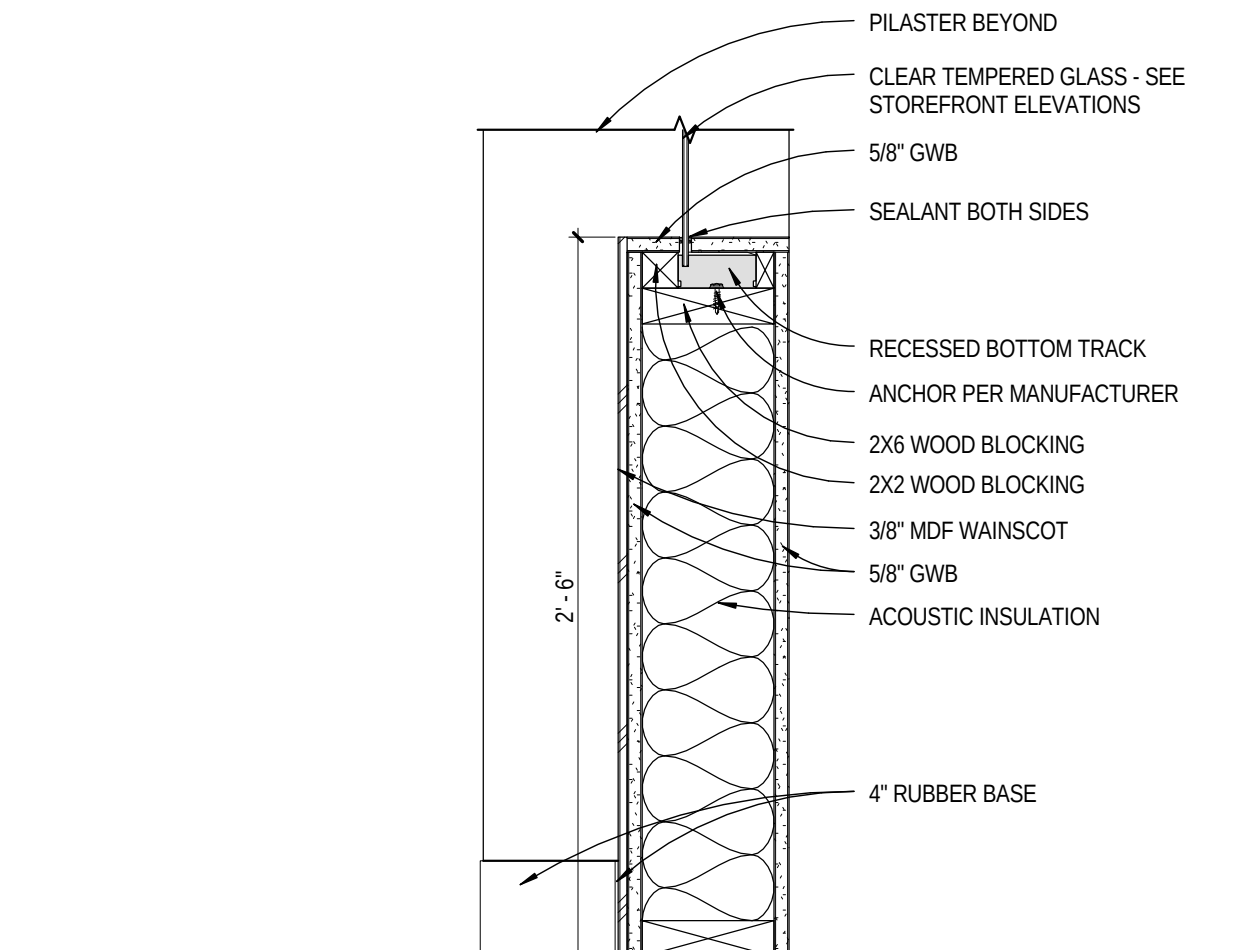
43 ALUMINUM SIDING @ (E) FASCIA
SCALE: 1 1/2" = 1'-0"

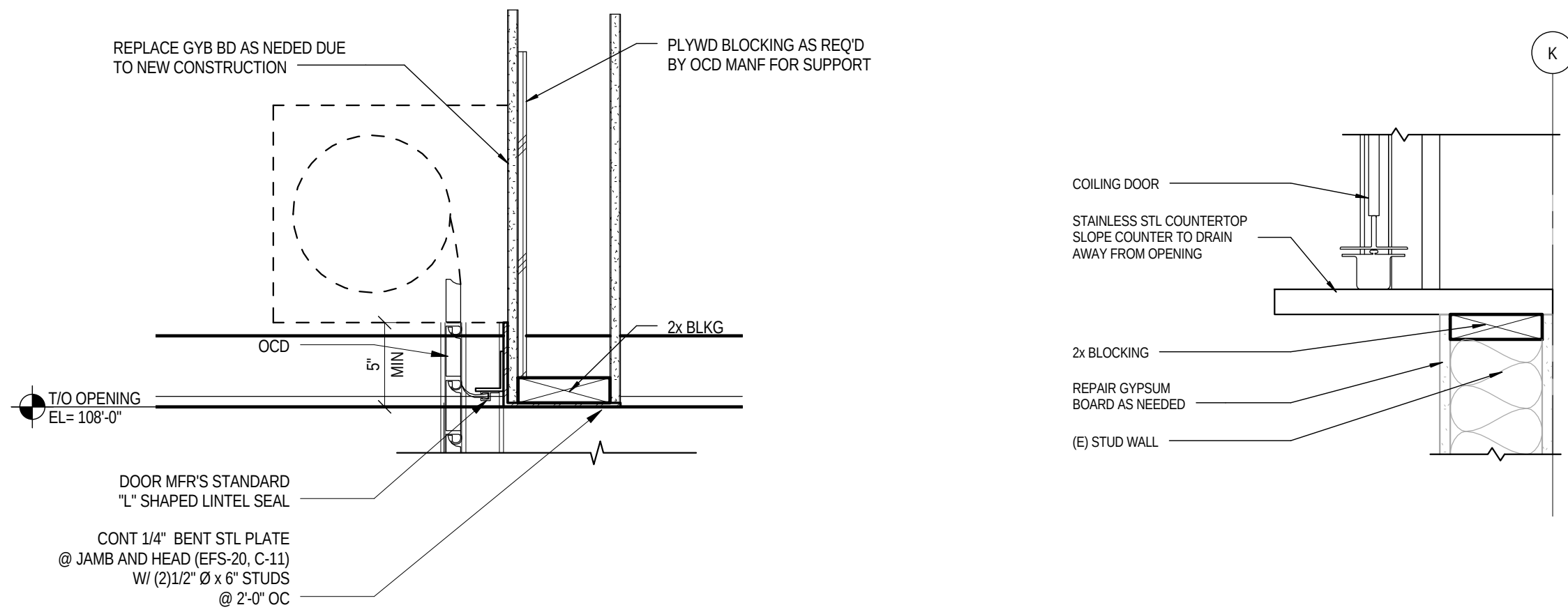
44 BULKHEAD FRAMING
SCALE: 1 1/2" = 1'-0"

45 LOW WALL @ MEDIA CENTER
SCALE: 1 1/2" = 1'-0"

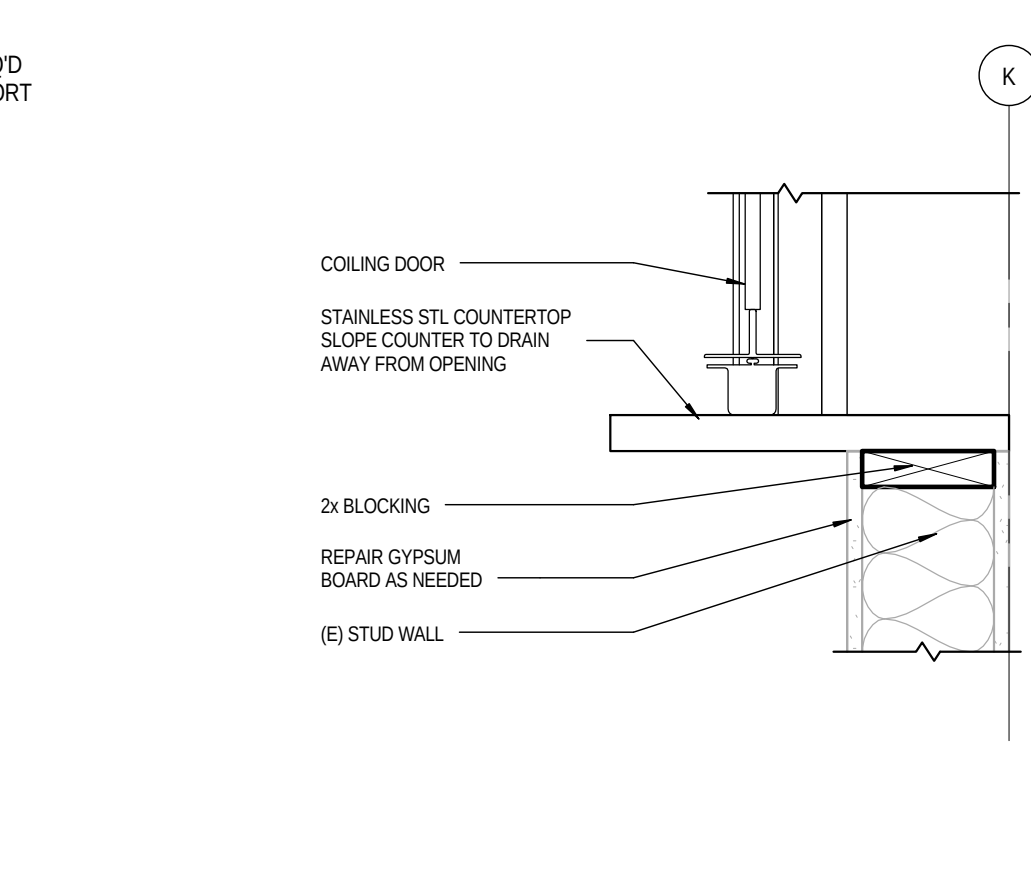


35 INT ALUM SIDING @ GLASS HEADER
SCALE: 1 1/2" = 1'-0"

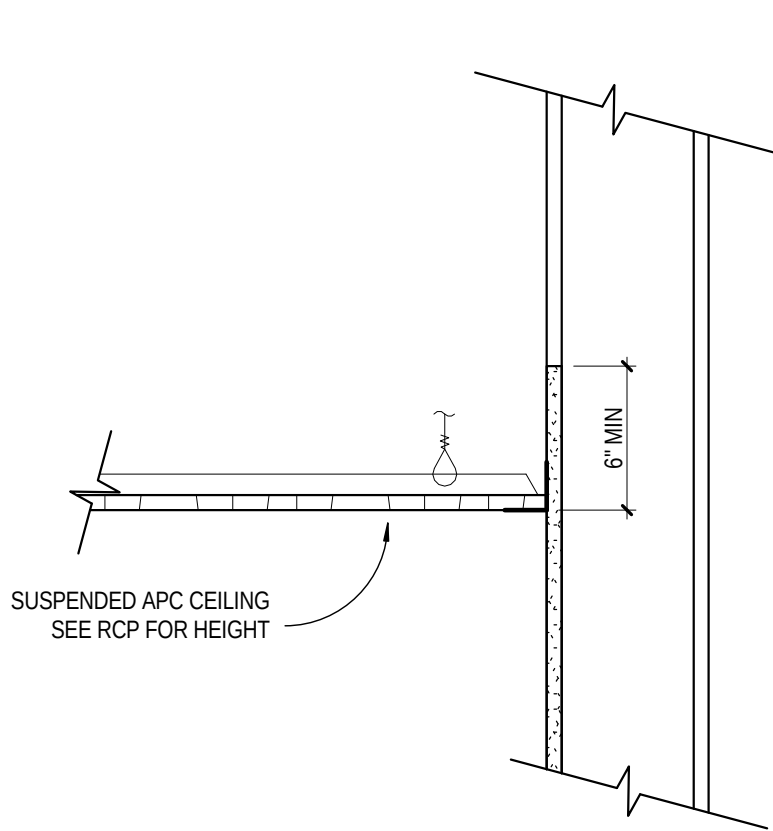




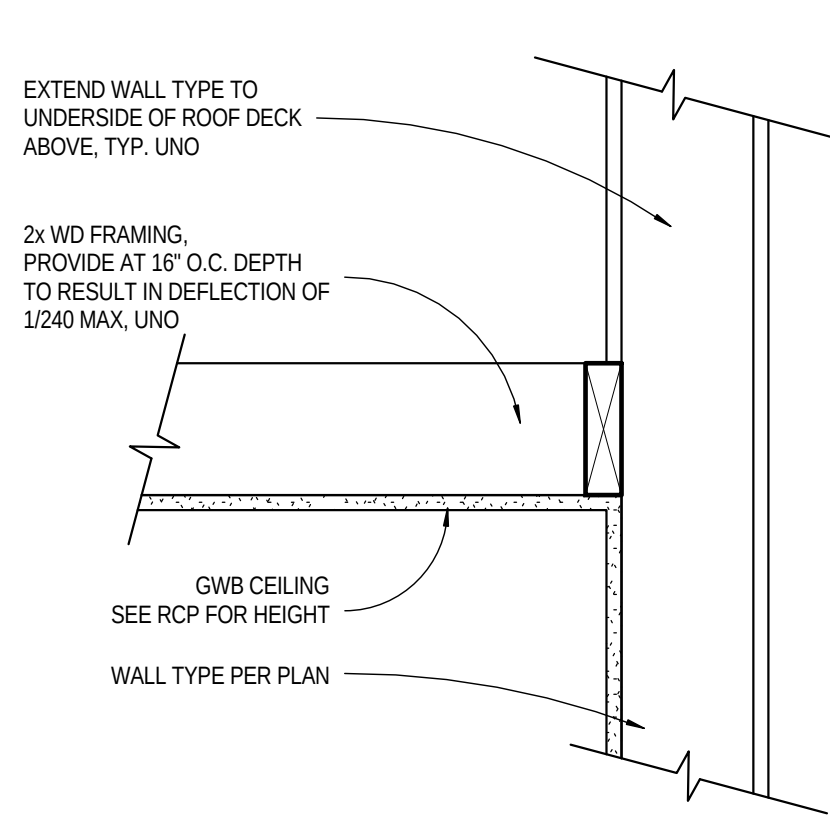
11 HEAD @ OVERHEAD COILING DOOR
A10.2 SCALE: 1 1/2" = 1'-0"



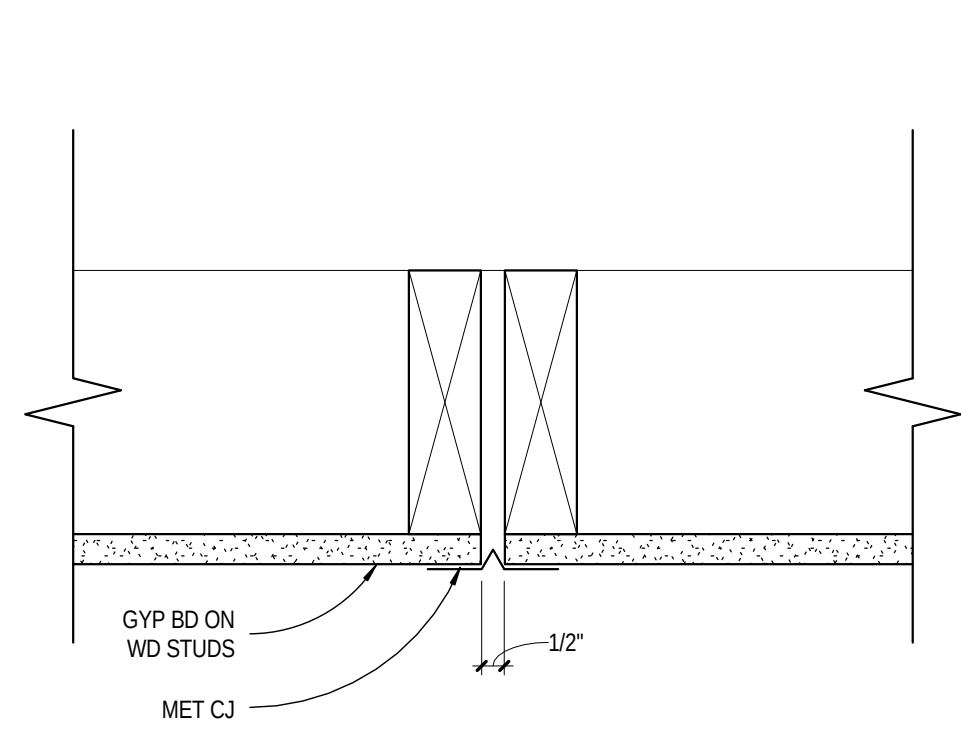
12 SILL @ OVERHEAD COILING DOOR
A10.2 SCALE: 1 1/2" = 1'-0"



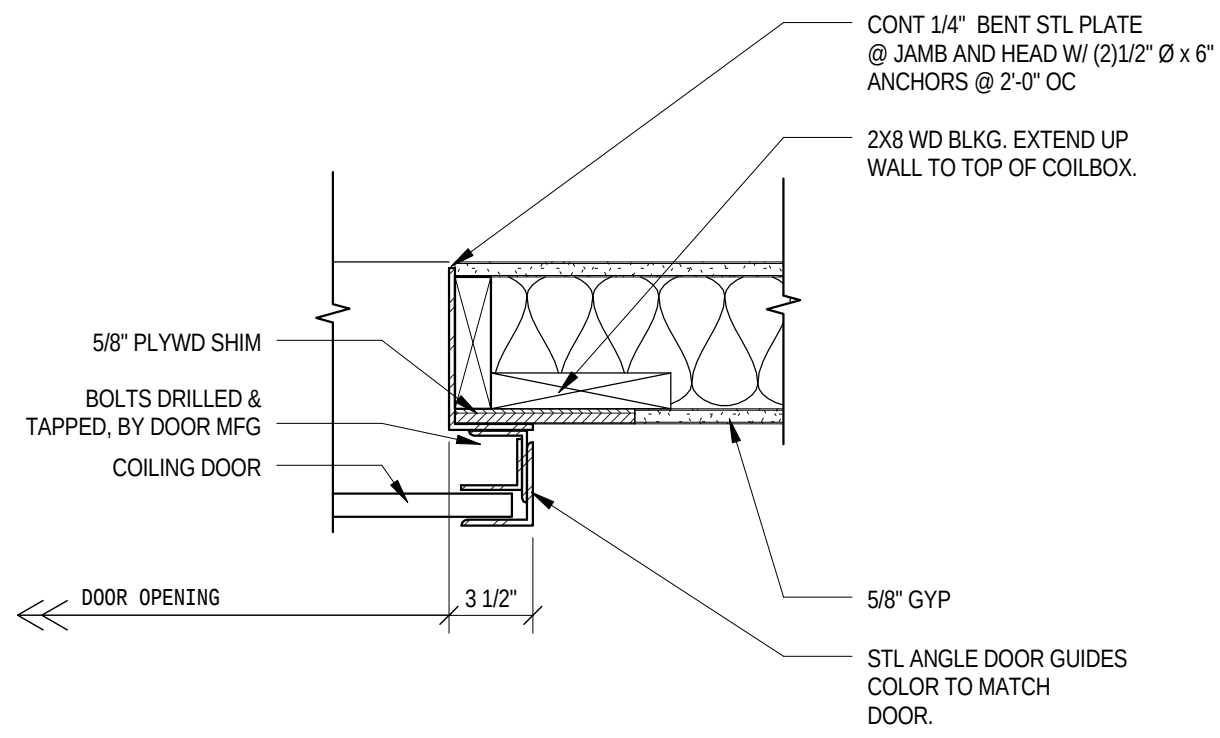
13 TYP APC CEILING
A10.2 SCALE: 1 1/2" = 1'-0"



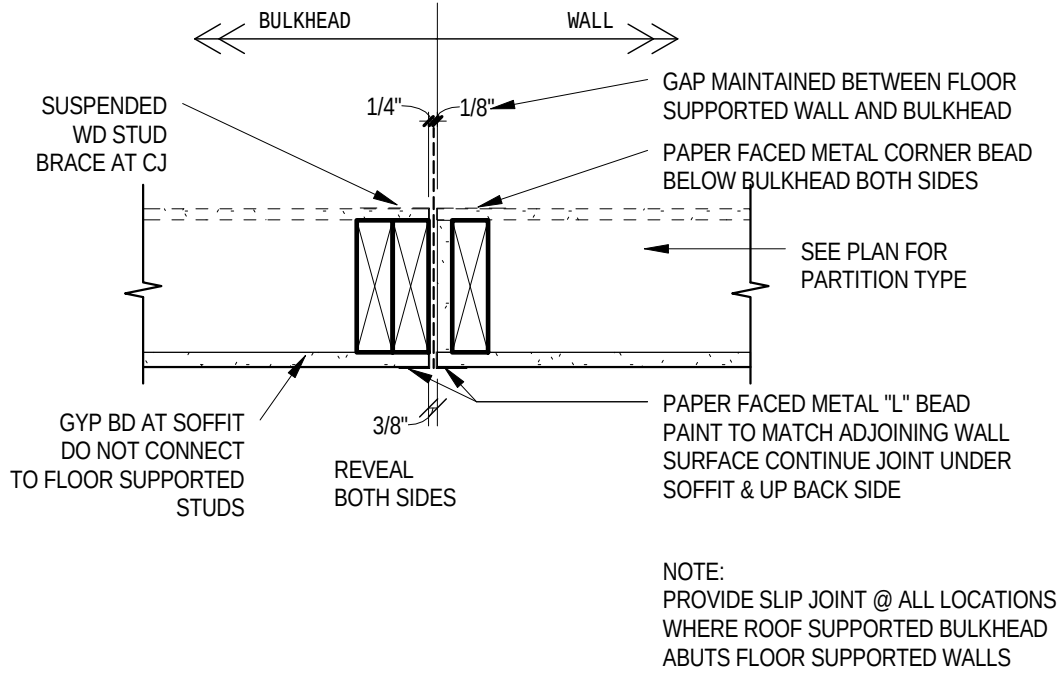
14 TYP GWB CEILING
A10.2 SCALE: 1 1/2" = 1'-0"



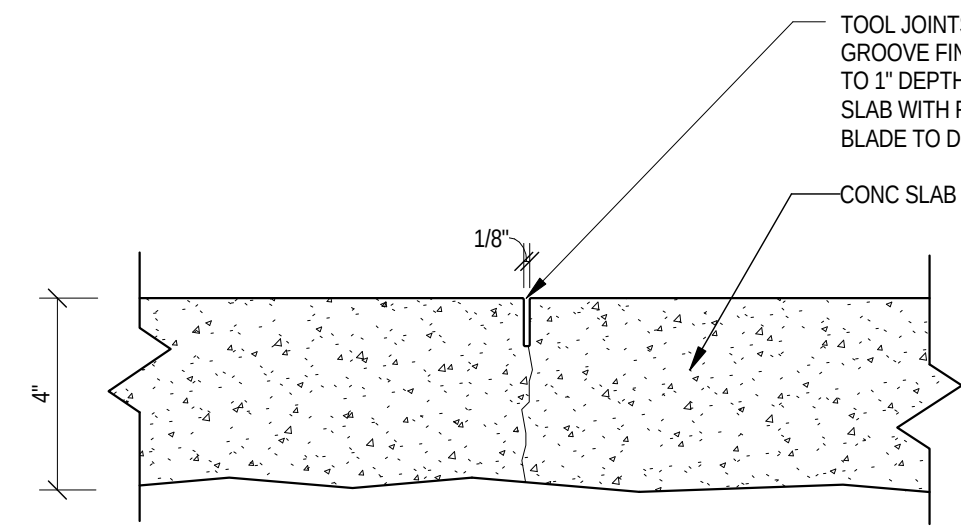
15 TYP CONTROL JOINT @ STUD WALLS
A10.2 SCALE: 3" = 1'-0"



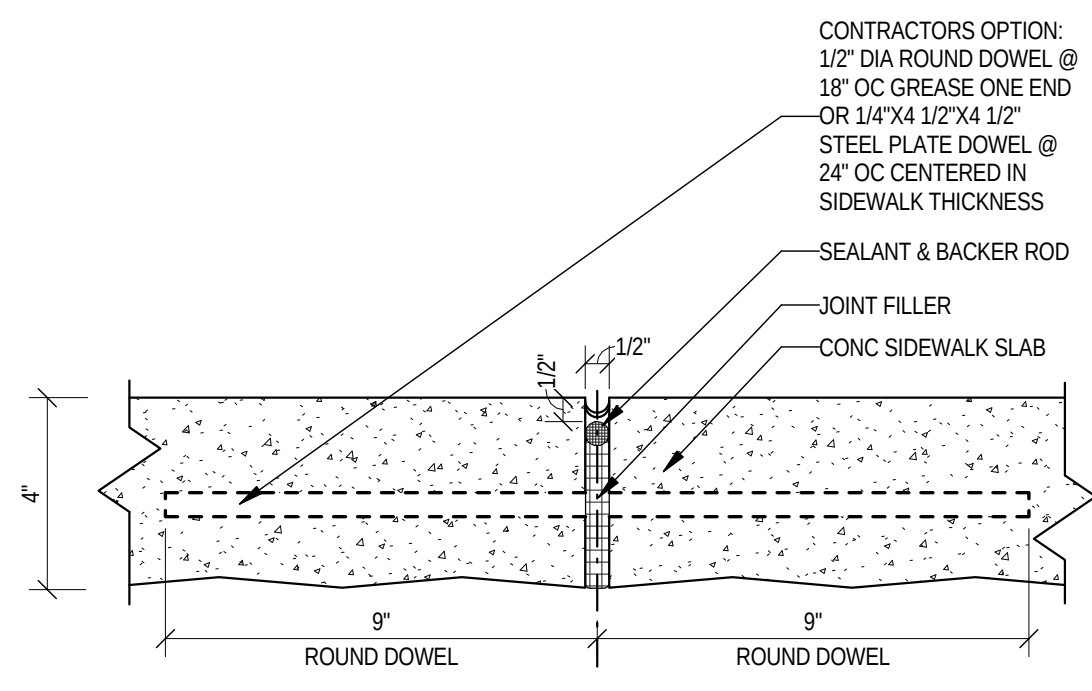
21 JAMB DETAIL @ COILING DOOR
A10.2 SCALE: 1 1/2" = 1'-0"



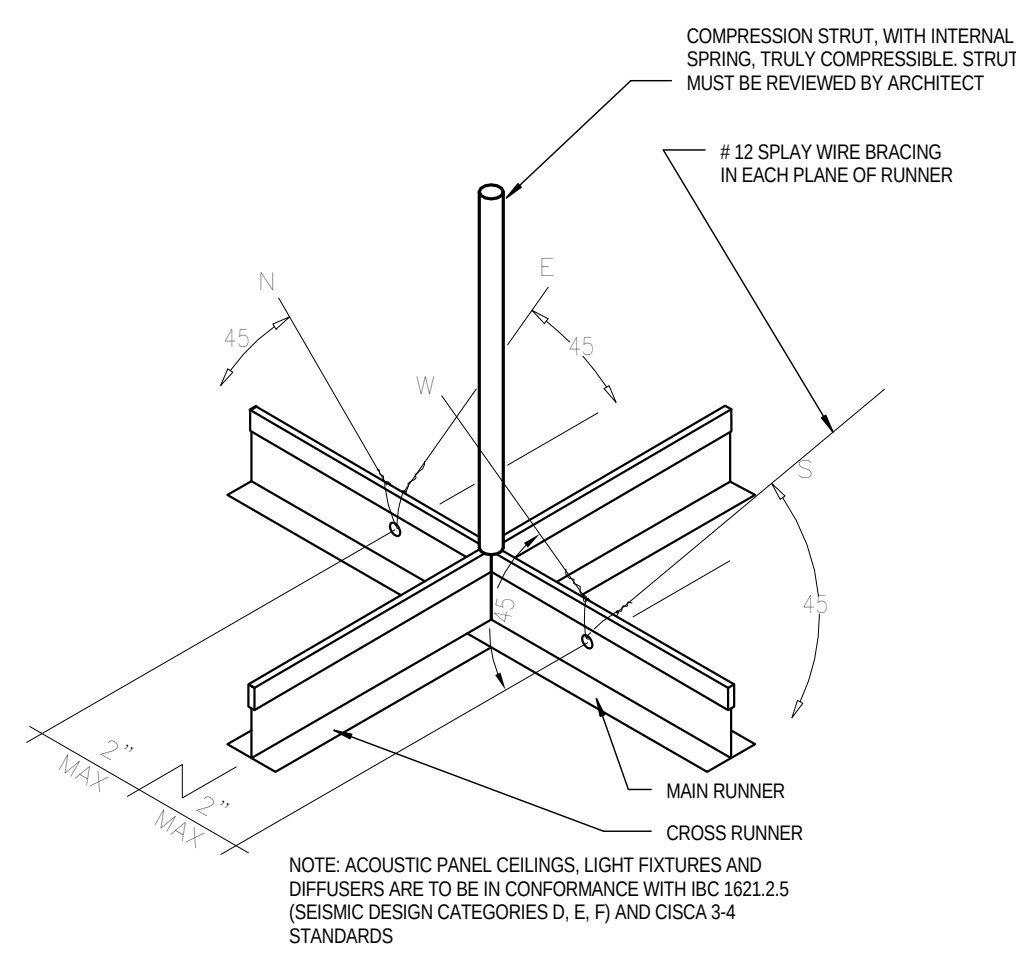
22 SLIP JOINT DETAIL
A10.2 SCALE: 1 1/2" = 1'-0"



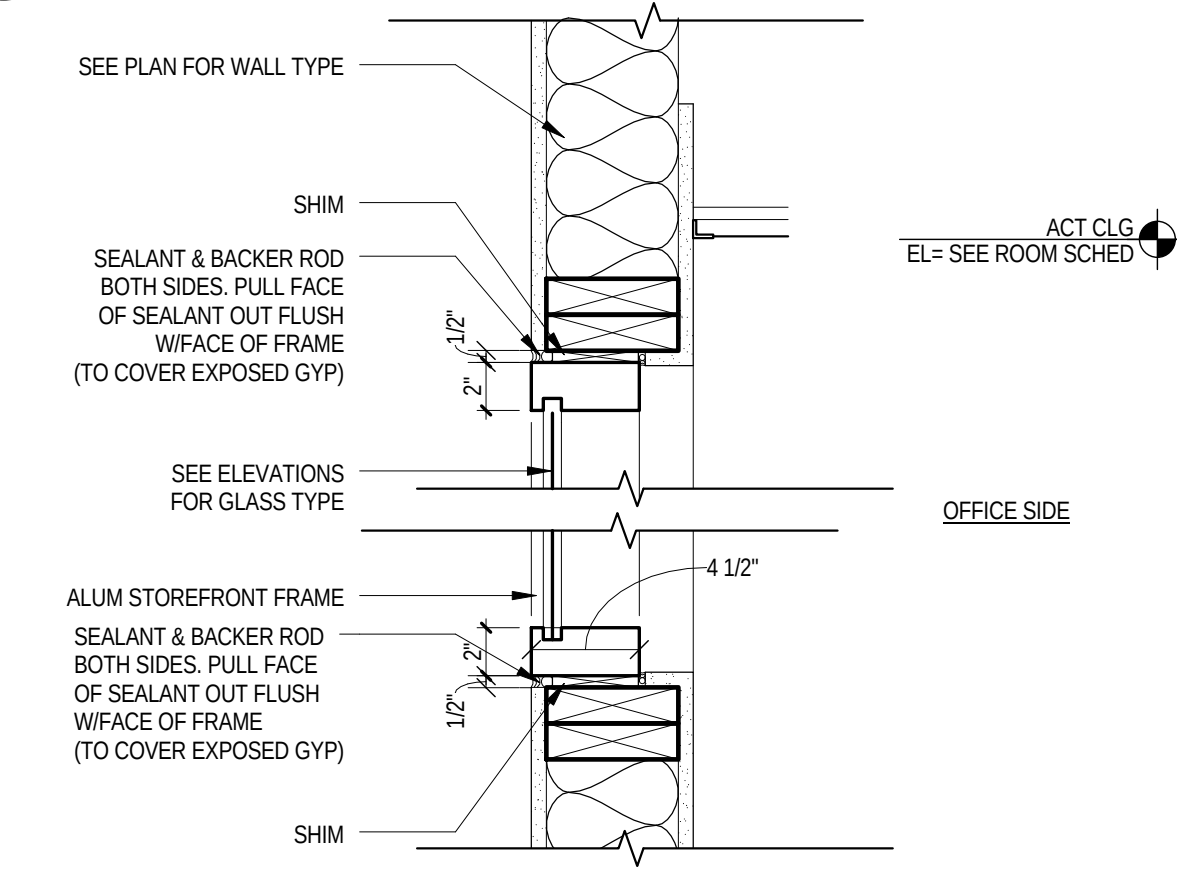
23 CONTROL JOINT @ SIDEWALK
A10.2 SCALE: 3" = 1'-0"



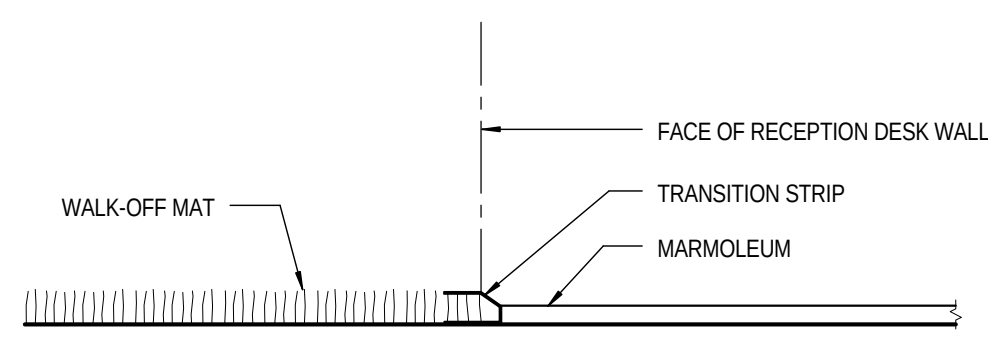
24 SIDEWALK EXPANSION JOINT
A10.2 SCALE: 3" = 1'-0"



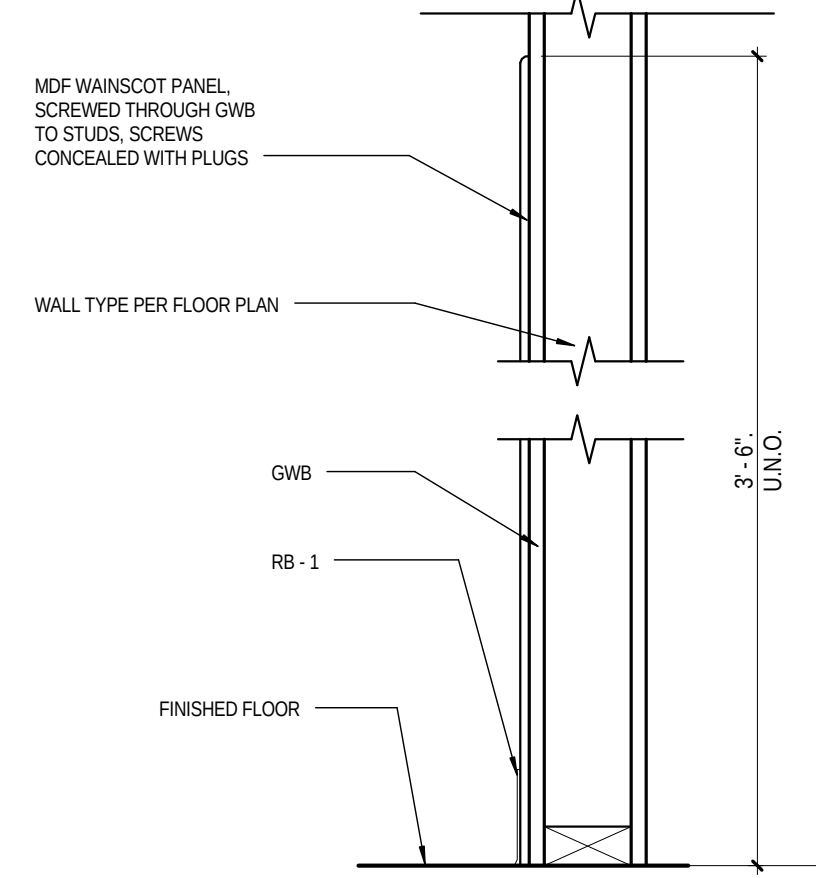
25 TYPICAL CLG BRACING
A10.2 SCALE: 1 1/2" = 1'-0"



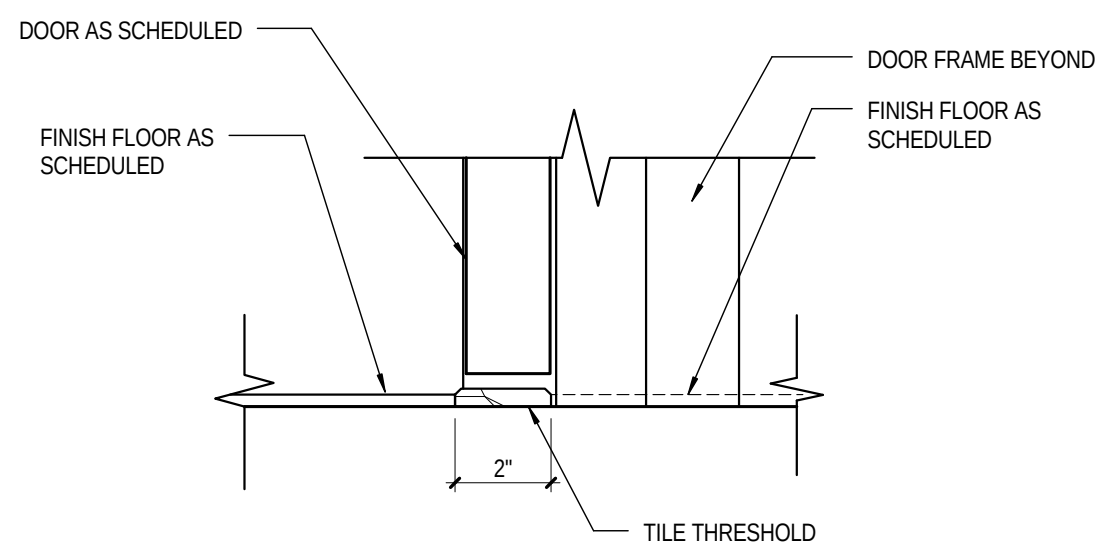
31 INTERIOR STOREFRONT WINDOW FRAME
A10.2 SCALE: 1 1/2" = 1'-0"



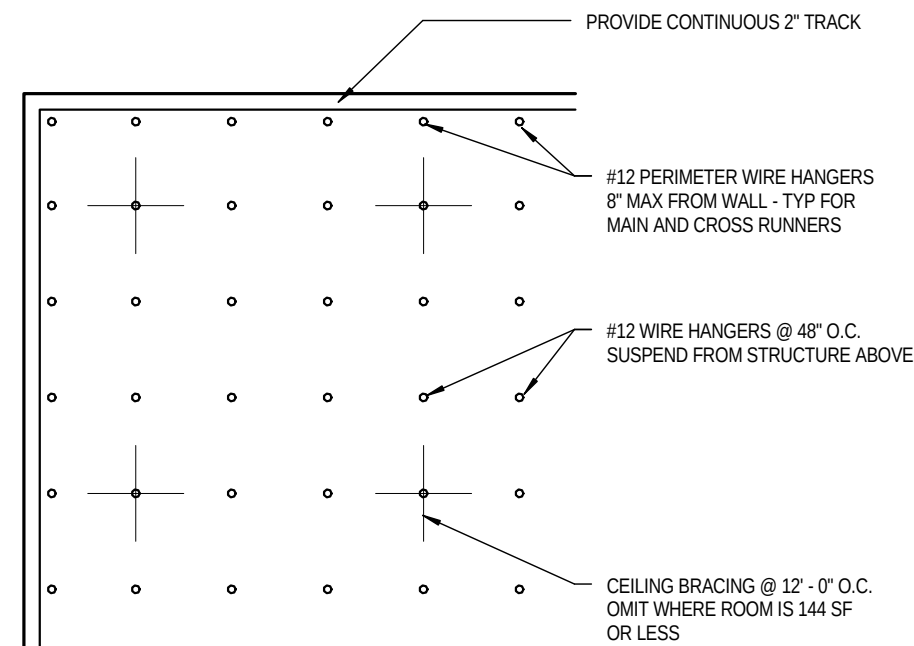
32 CARPET TRANSITION
A10.2 SCALE: 1 1/2" = 1'-0"



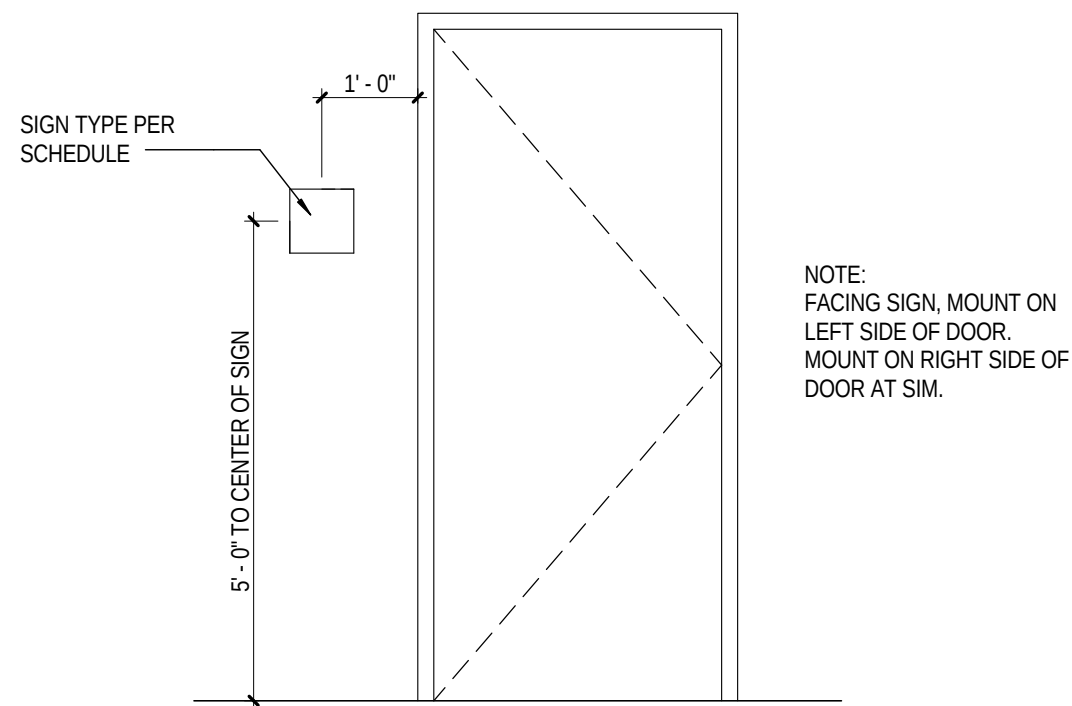
33 CORRIDOR WAINSCOT
A10.2 SCALE: 1 1/2" = 1'-0"



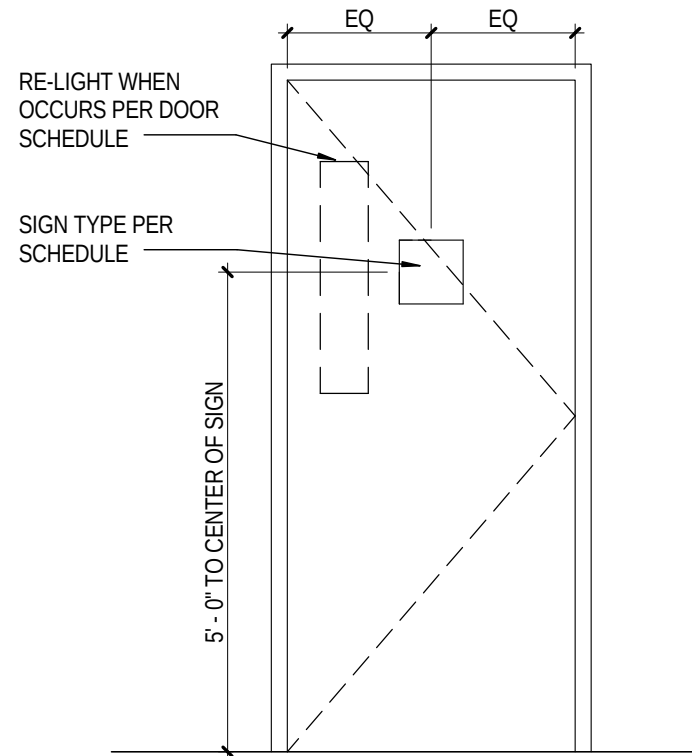
34 SILL AT TOILET ROOMS
A10.2 SCALE: 3" = 1'-0"



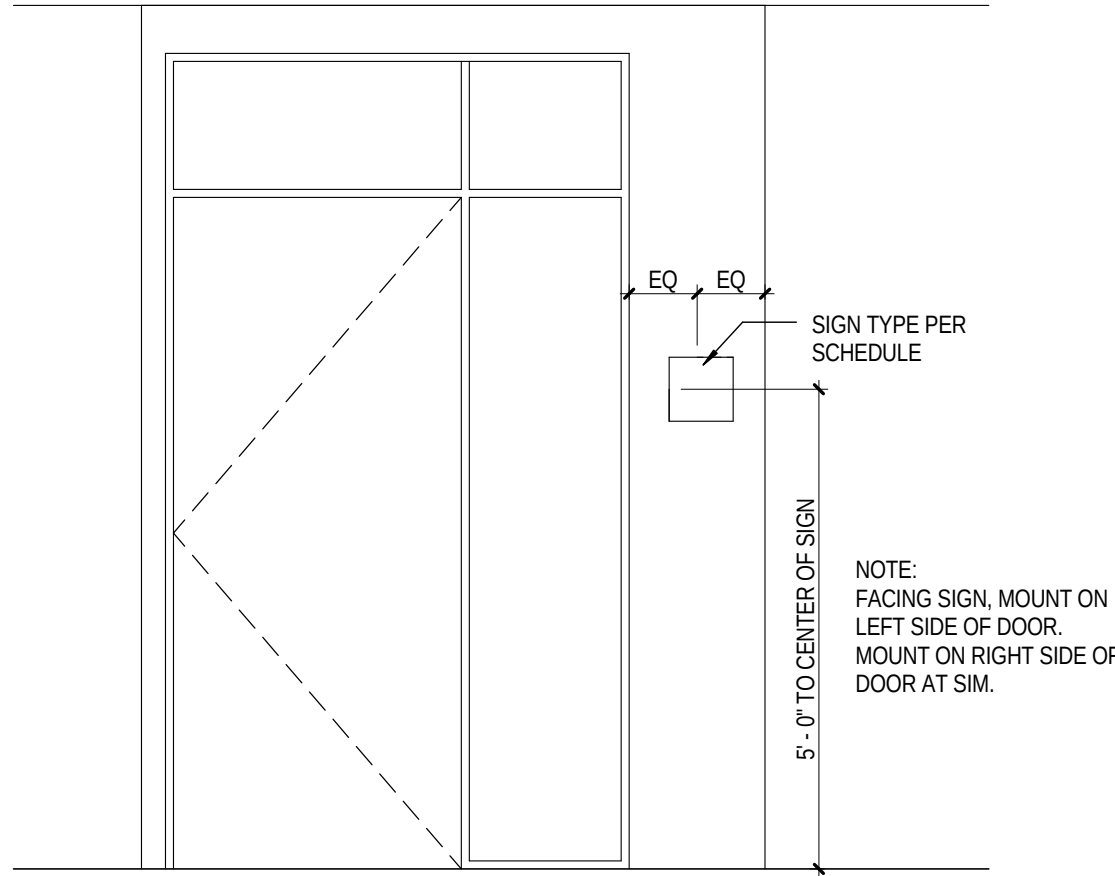
35 TYP BRACING LAYOUT
A10.2 SCALE: 1 1/2" = 1'-0"



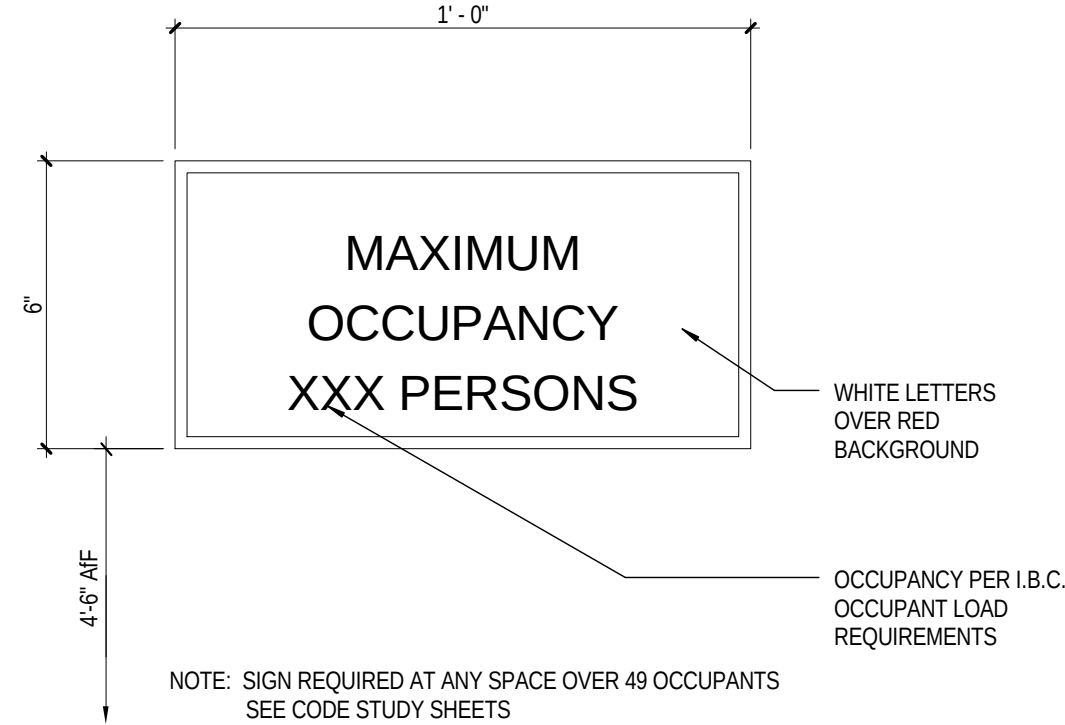
11 SIGN LOCATION 1
A10.3 SCALE: 1/2" = 1'-0"



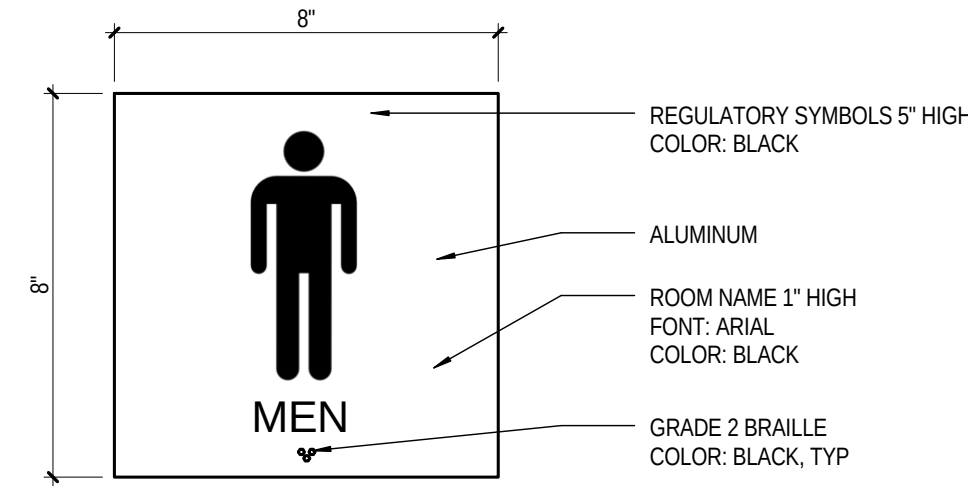
12 SIGN LOCATION 2
A10.3 SCALE: 1/2" = 1'-0"



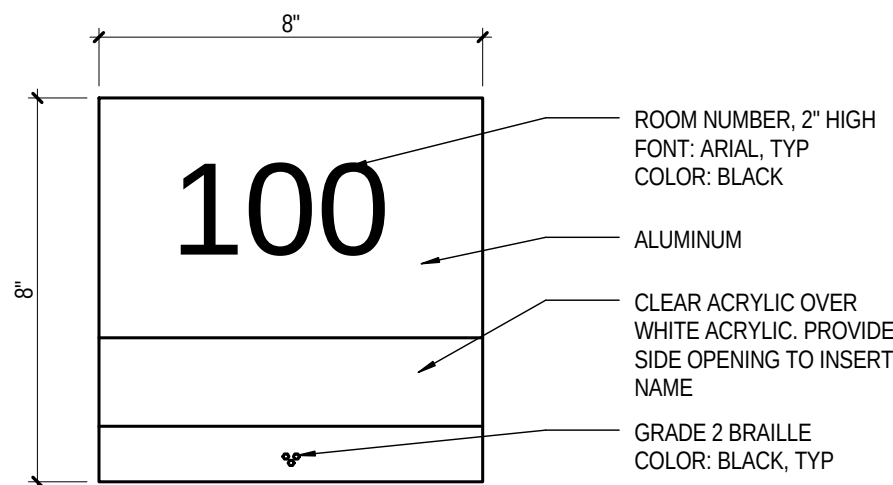
13 SIGN LOCATION 3
A10.3 SCALE: 1/2" = 1'-0"



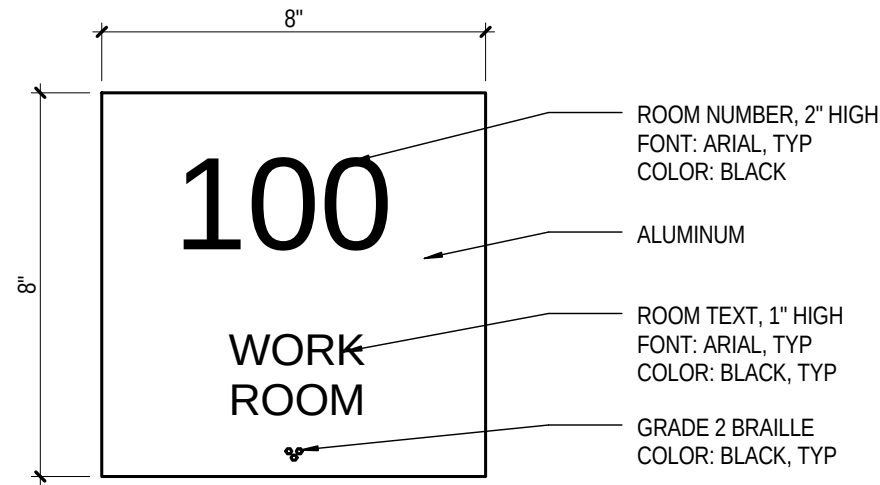
14 OCCUPANT LOAD SIGN
A10.3 SCALE: 3" = 1'-0"



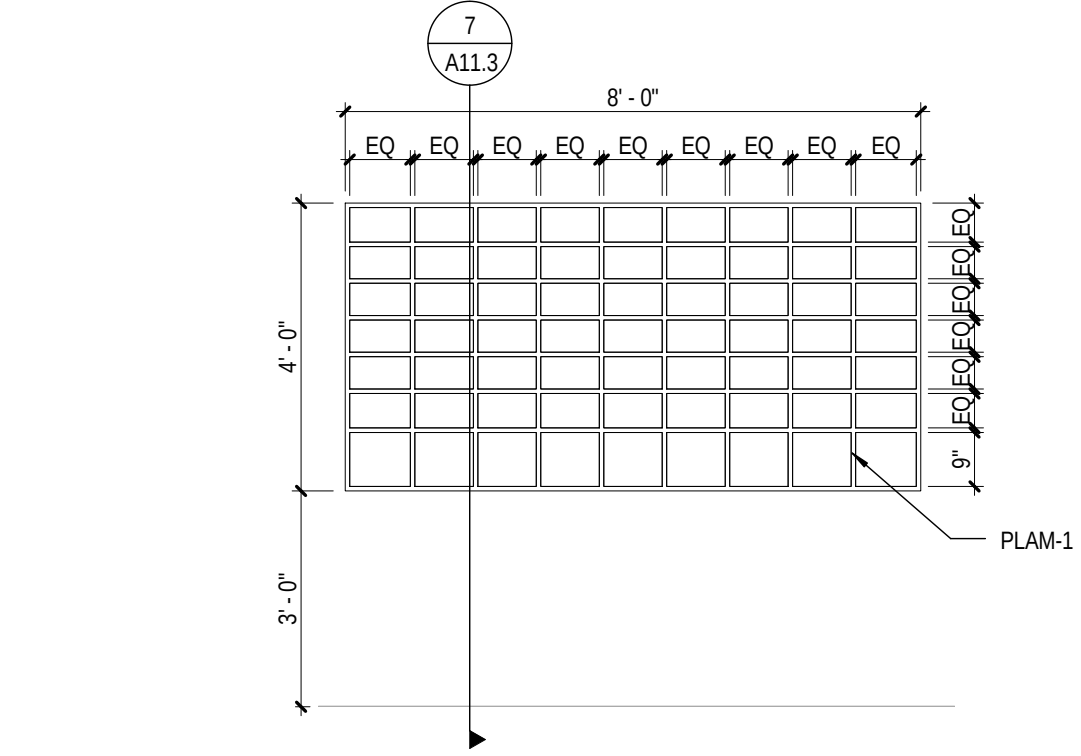
15 SIGN TYPE C - REGULATORY SIGN
A10.3 SCALE: 3" = 1'-0"



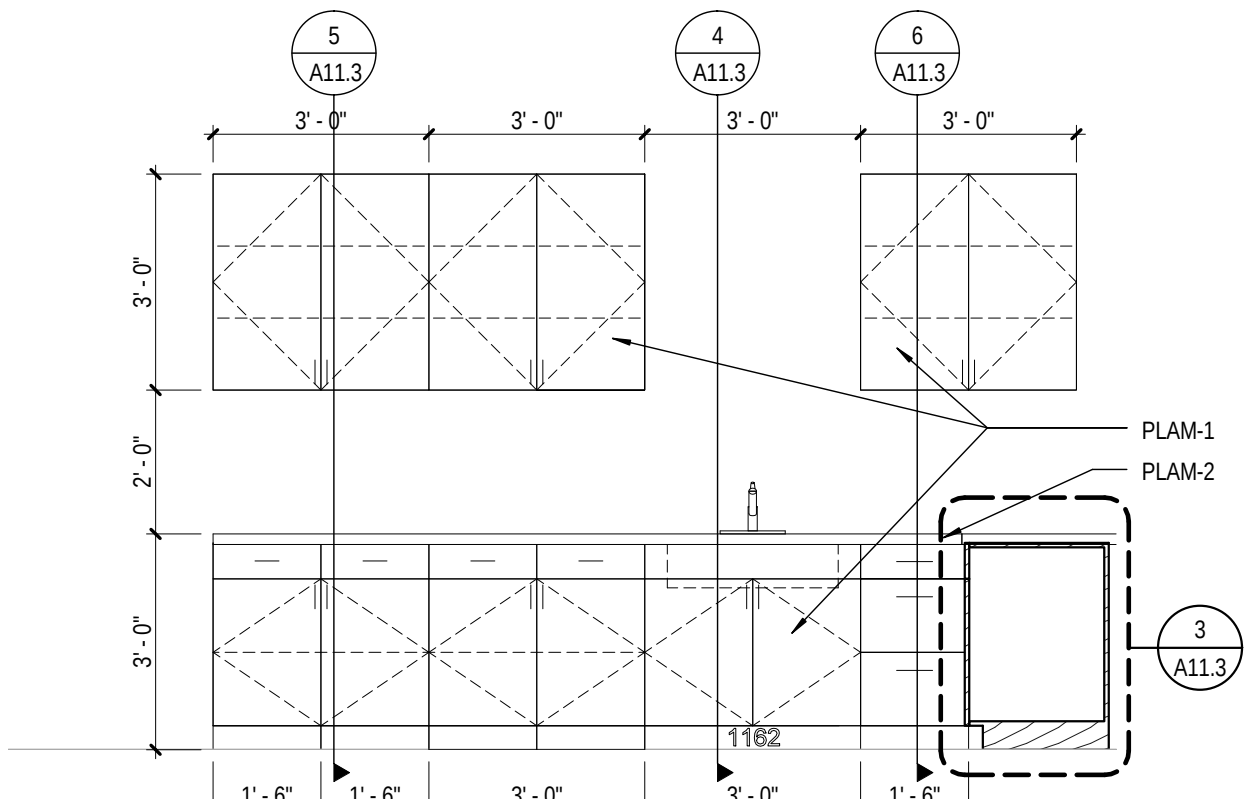
21 SIGN TYPE A - INSERT
A10.3 SCALE: 3" = 1'-0"



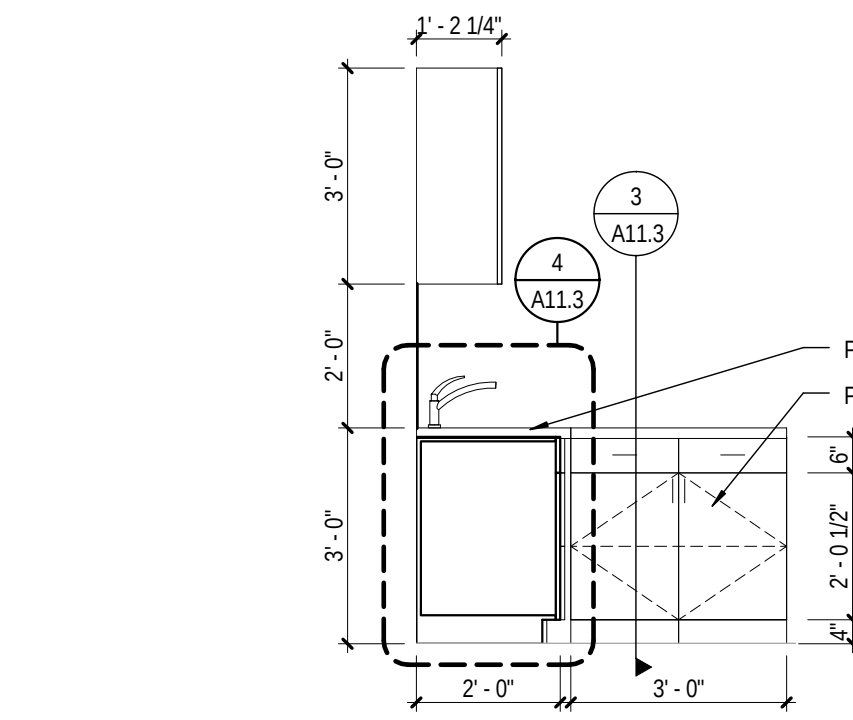
22 SIGN TYPE B - PERMANENT NAME
A10.3 SCALE: 3" = 1'-0"



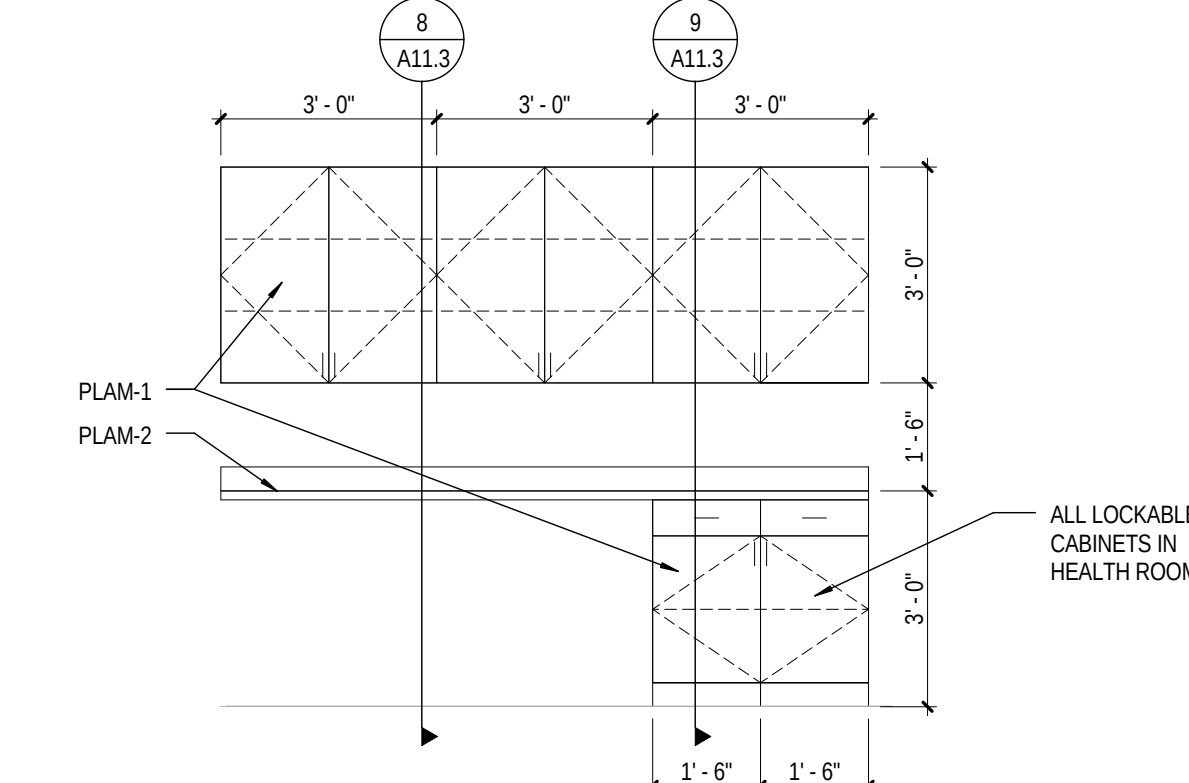
11 CUBBIES
A11.1 SCALE: 3/8" = 1'-0"



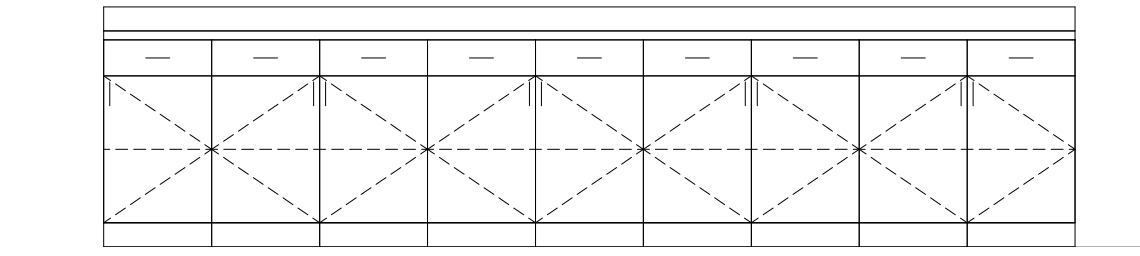
12 BREAKROOM 2
A11.1 SCALE: 3/8" = 1'-0"



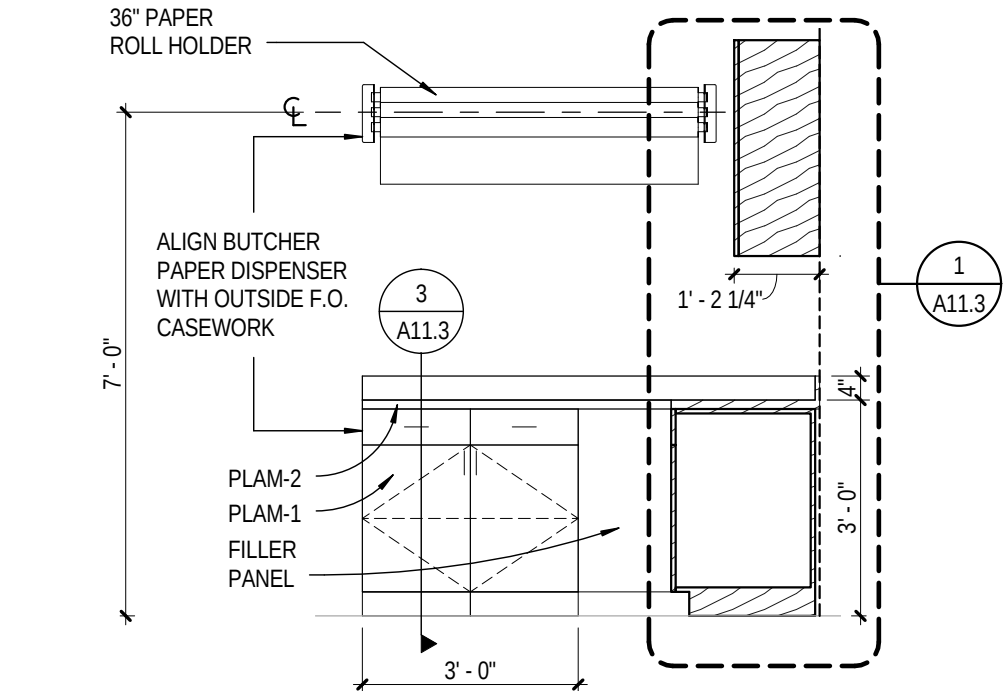
13 BREAKROOM 3
A11.1 SCALE: 3/8" = 1'-0"



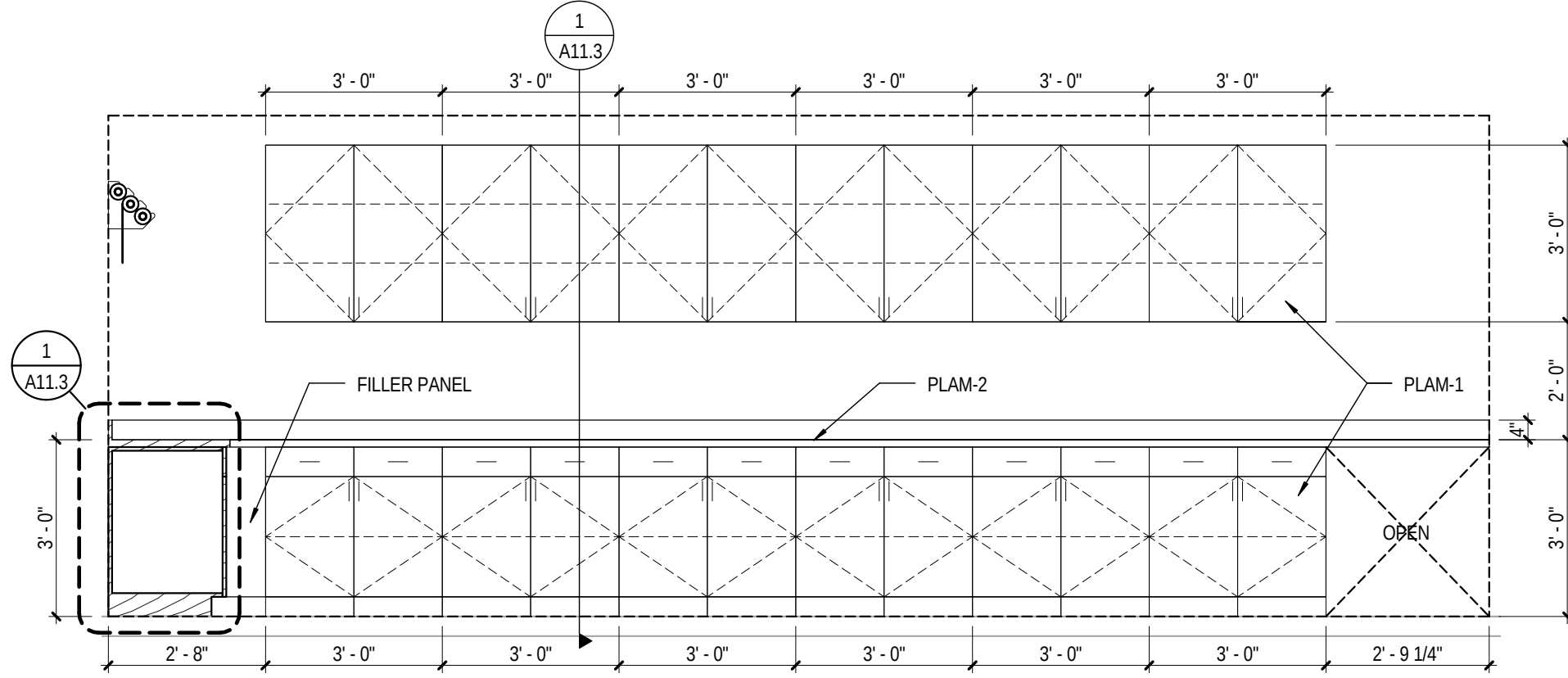
14 HEALTH
A11.1 SCALE: 3/8" = 1'-0"



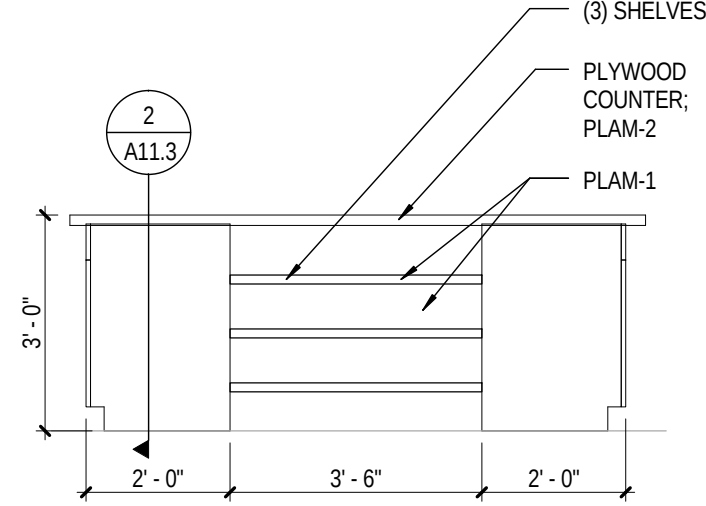
15 CASEWORK - CLASSROOM 290
A11.1 SCALE: 3/8" = 1'-0"



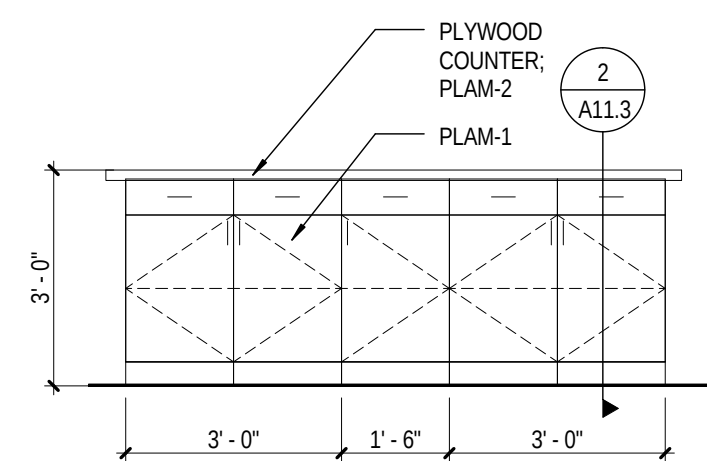
21 WORKROOM 01
A11.1 SCALE: 3/8" = 1'-0"



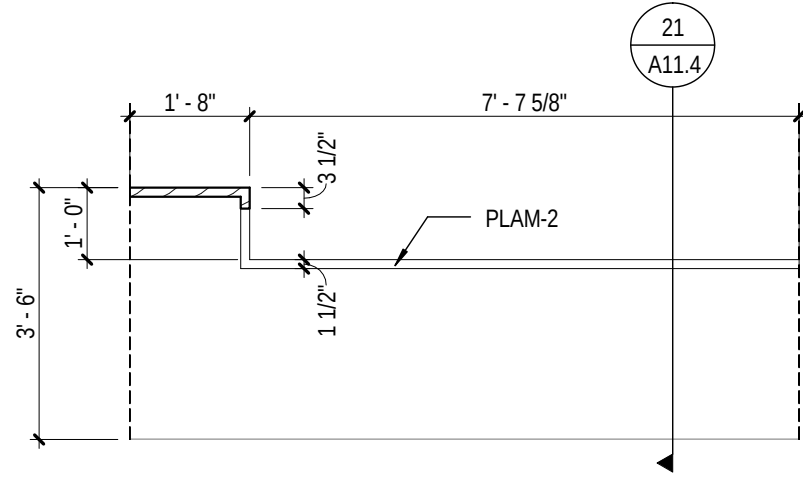
22 WORKROOM 02
A11.1 SCALE: 3/8" = 1'-0"



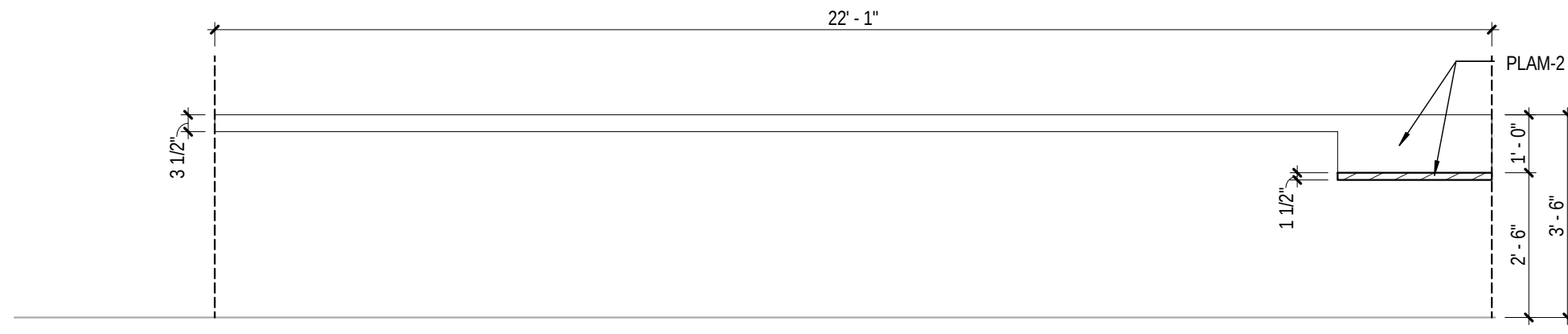
24 WORKROOM ISLAND 01
A11.1 SCALE: 3/8" = 1'-0"



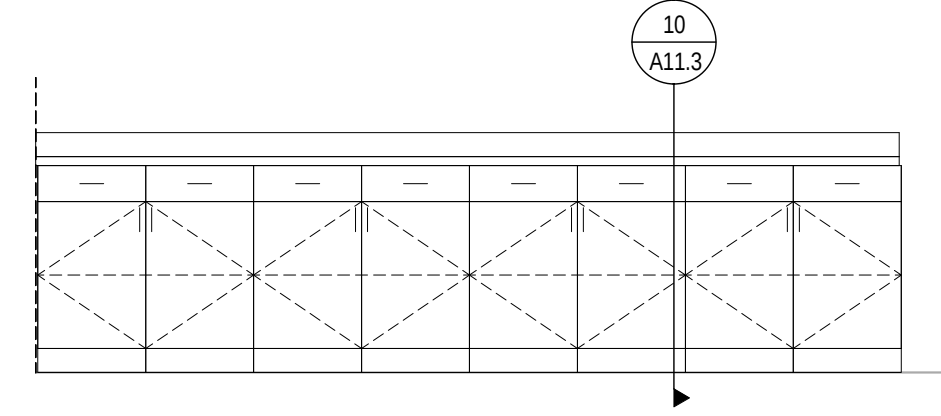
25 WORKROOM - ISLAND 02
A11.1 SCALE: 3/8" = 1'-0"



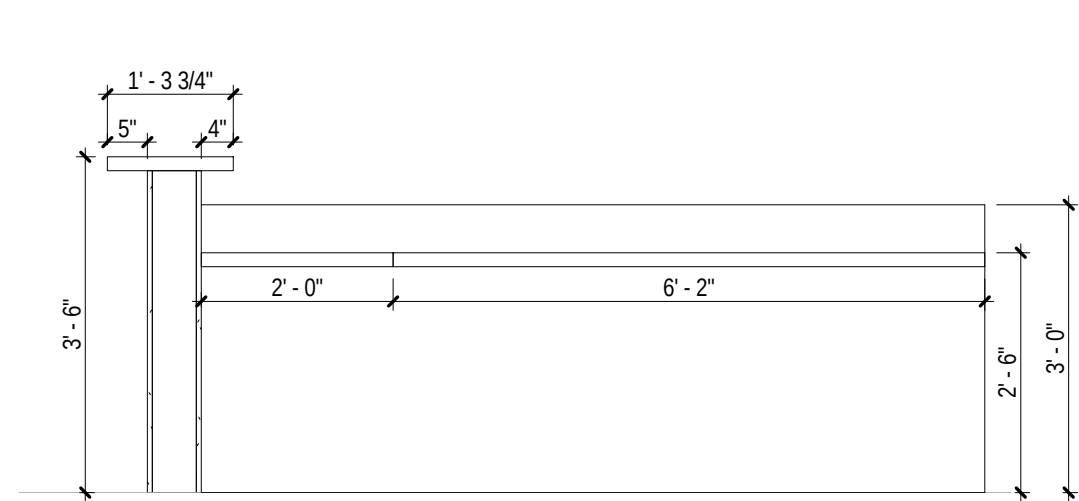
31 MEDIA CENTER @ ADA COMPUTER BENCH
A11.1 SCALE: 3/8" = 1'-0"



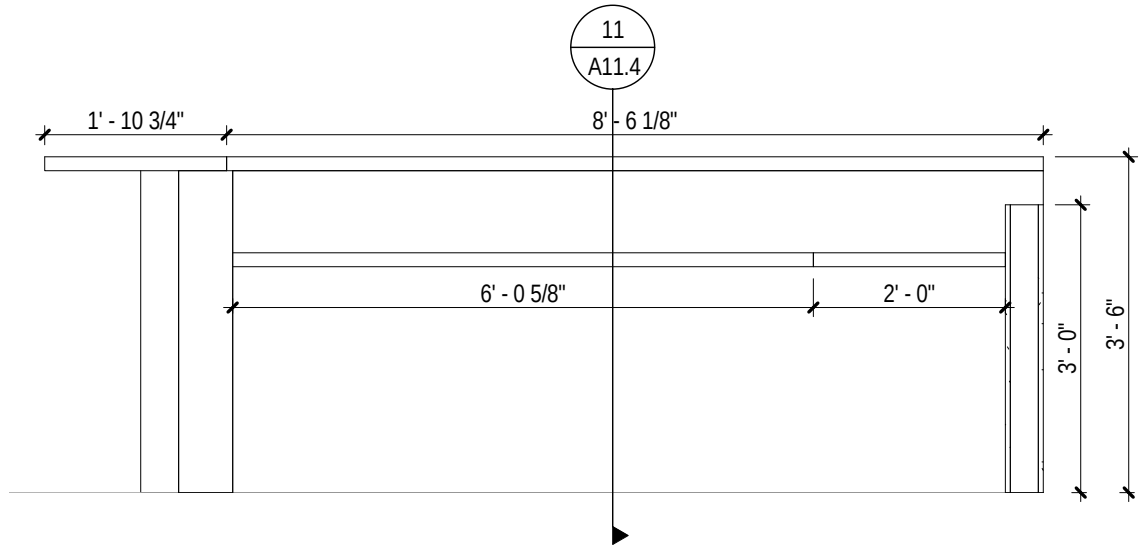
32 MEDIA CENTER @ HIGH COMPUTER BENCH
A11.1 SCALE: 3/8" = 1'-0"



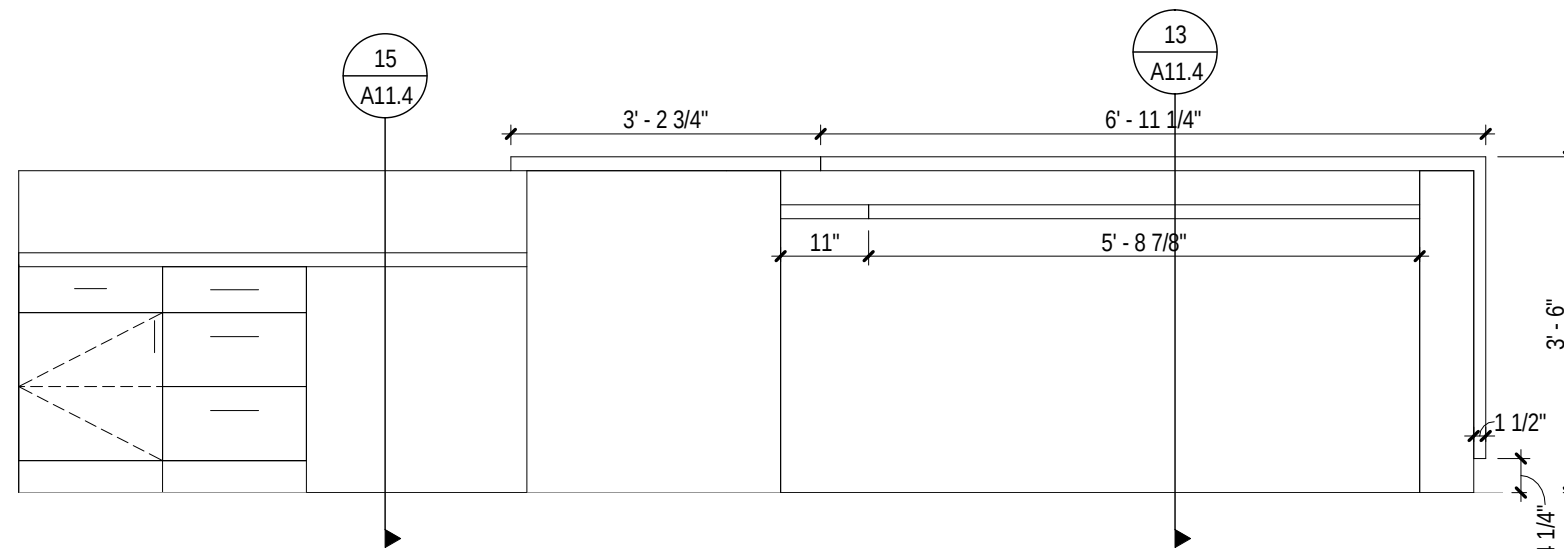
34 CASEWORK - TECHLAB
A11.1 SCALE: 3/8" = 1'-0"



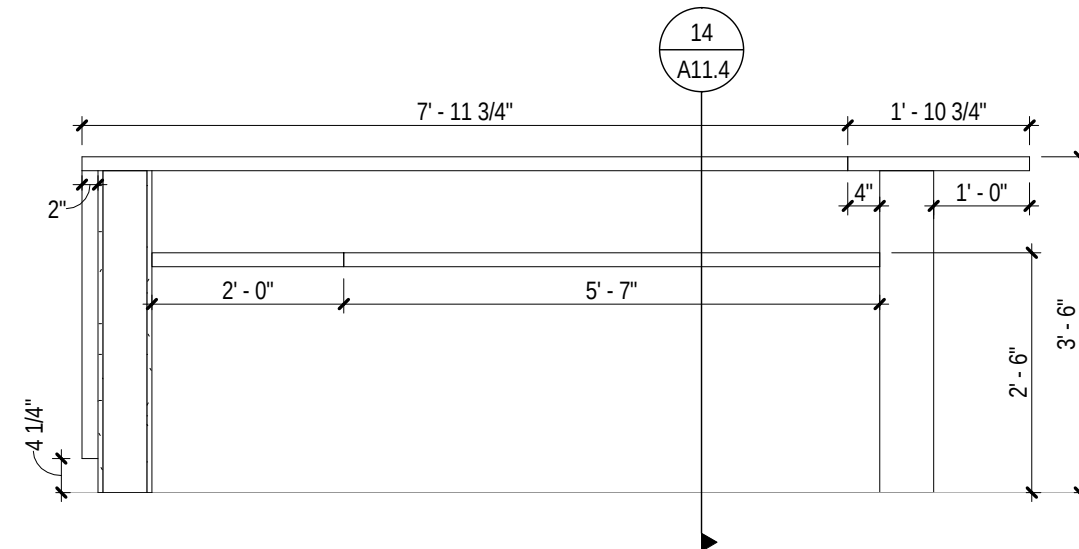
11 RECEPTION DESK 01
A11.2 SCALE: 1/2" = 1'-0"



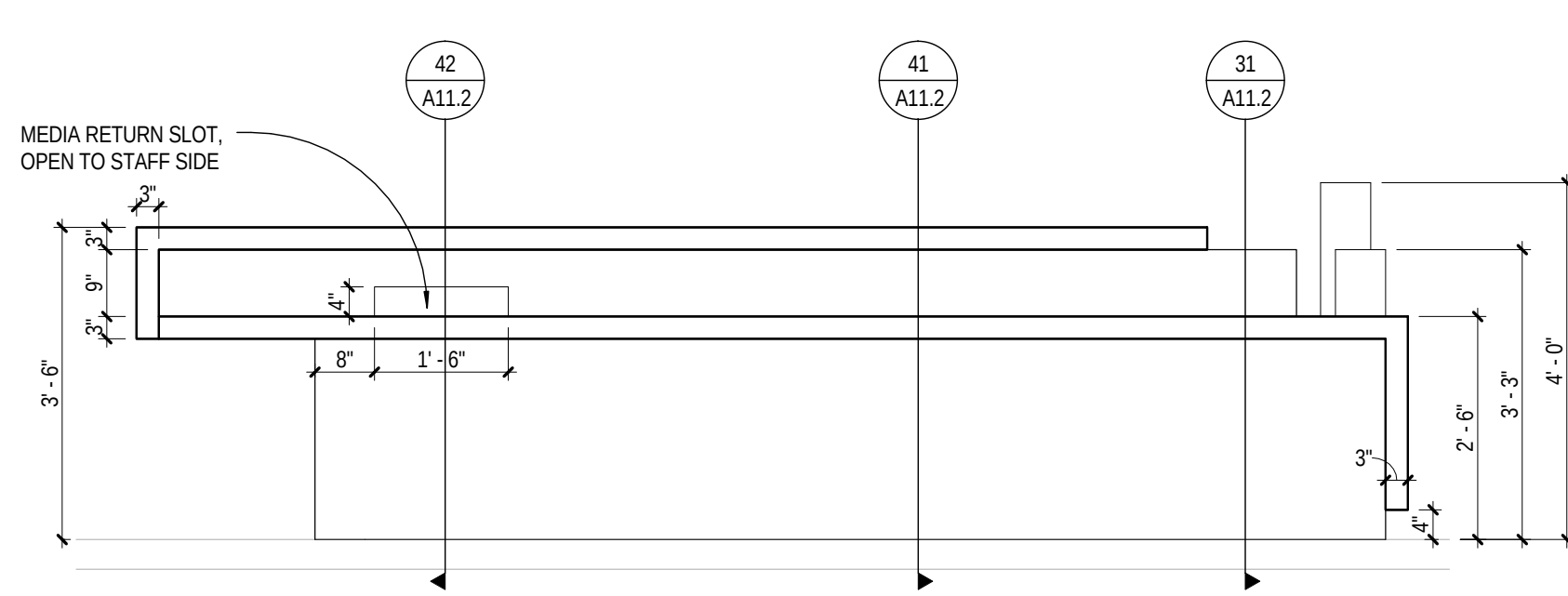
12 RECEPTION DESK 02
A11.2 SCALE: 1/2" = 1'-0"



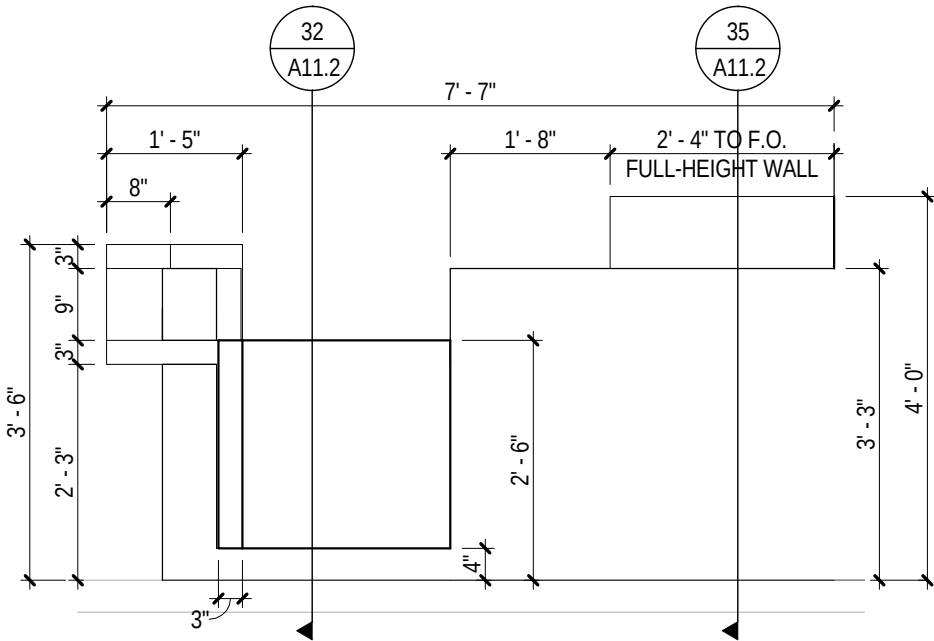
13 RECEPTION DESK 03
A11.2 SCALE: 1/2" = 1'-0"



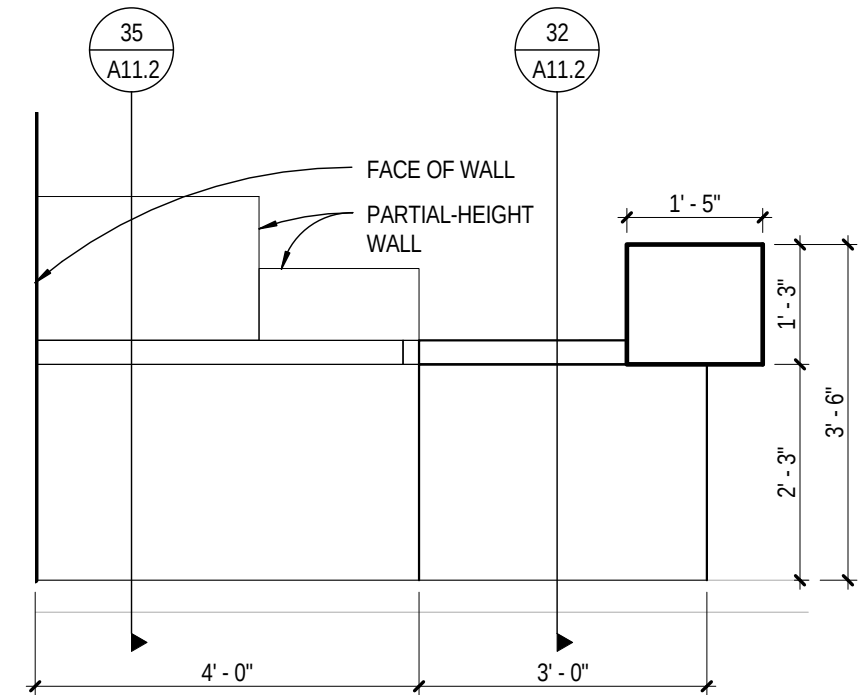
14 RECEPTION DESK 04
A11.2 SCALE: 1/2" = 1'-0"



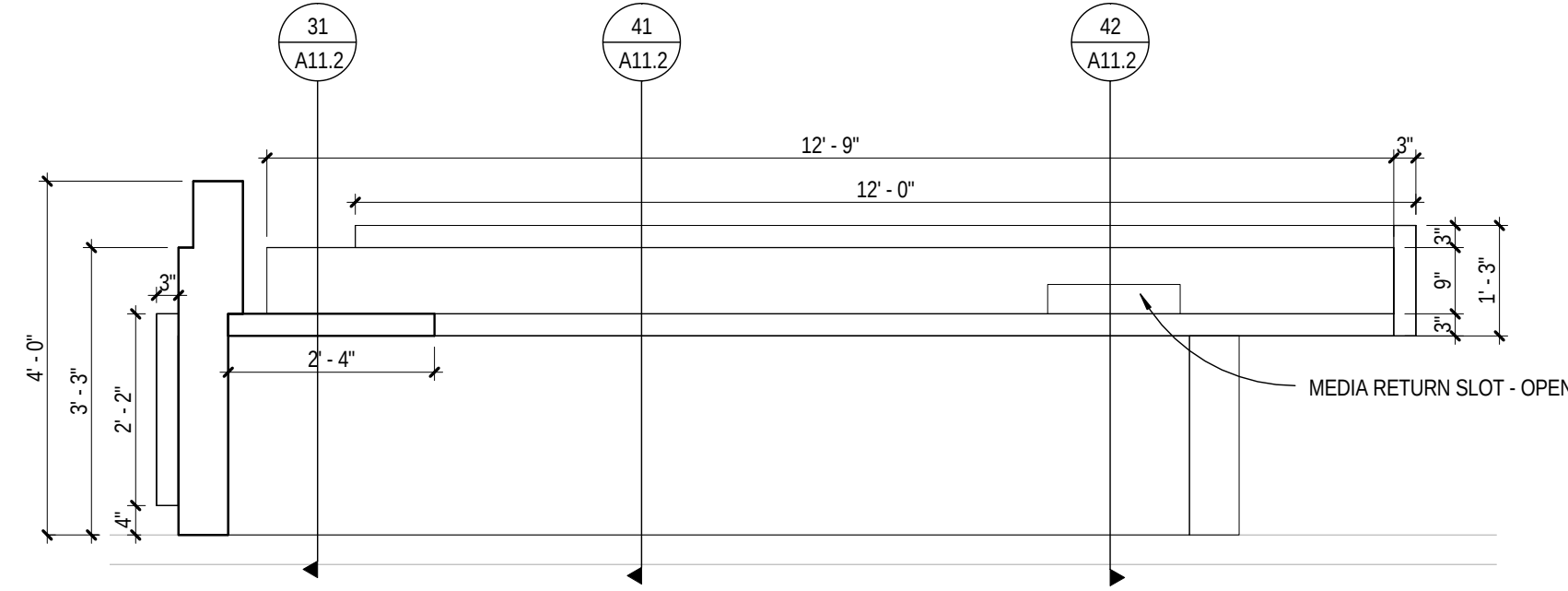
21 STAFF STATION @ MEDIA CENTER - EAST ELEVATION
A11.2 SCALE: 1/2" = 1'-0"



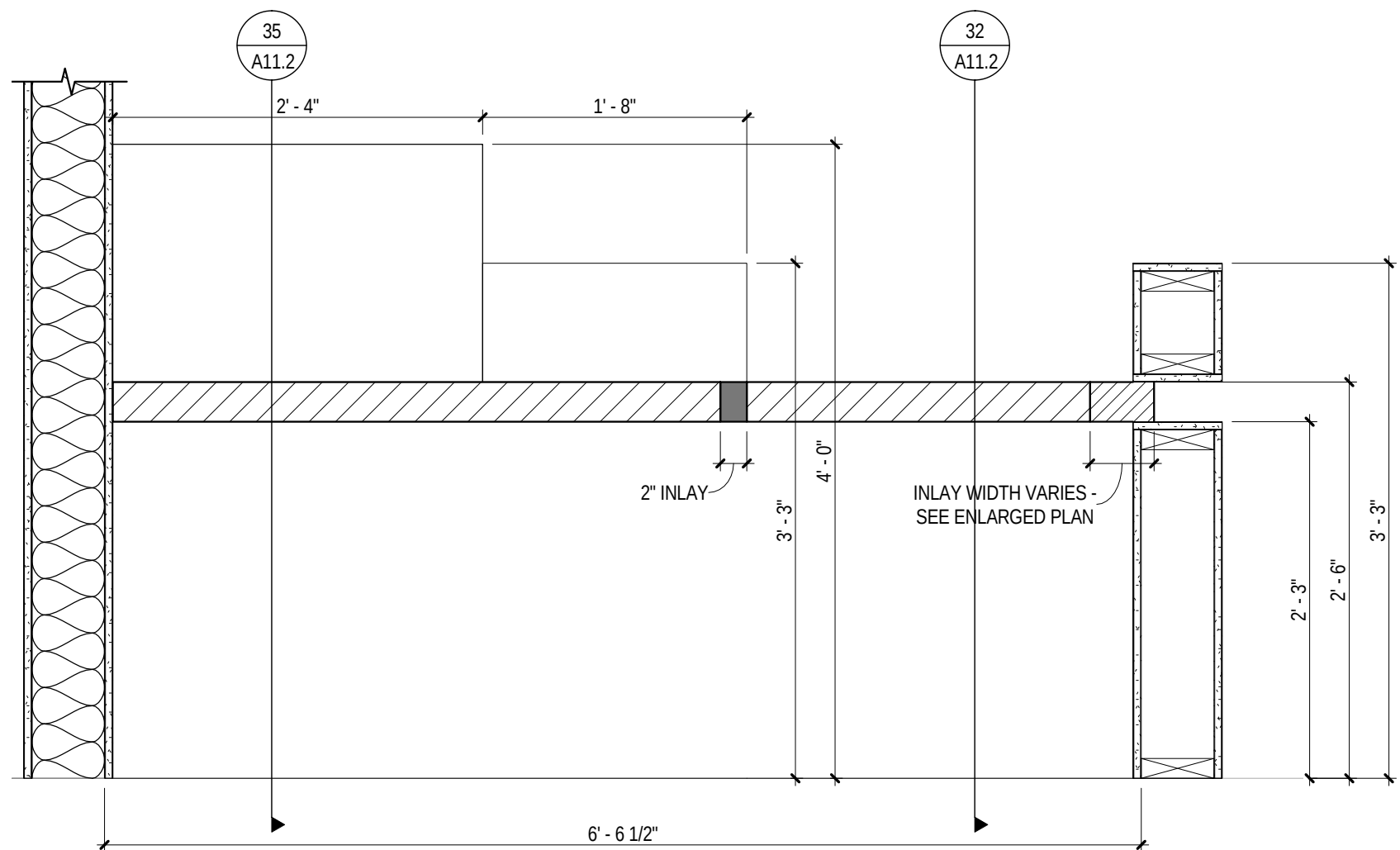
22 STAFF STATION @ MEDIA CENTER - NORTH ELEVATION
A11.2 SCALE: 1/2" = 1'-0"



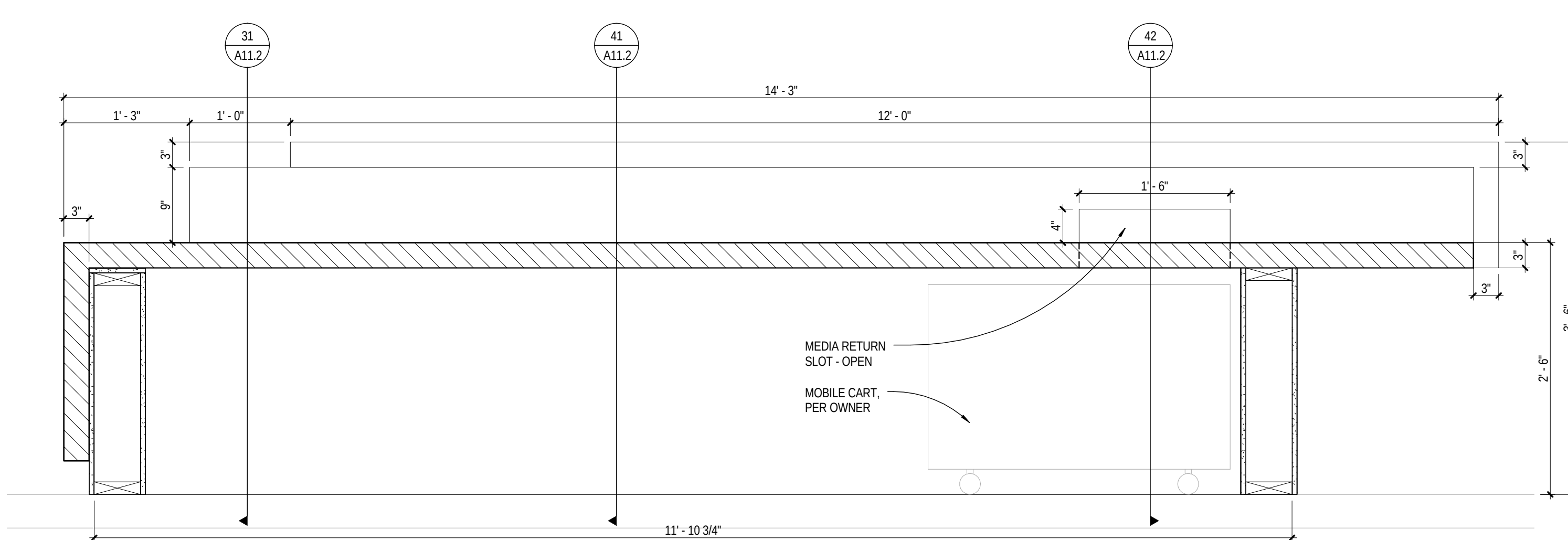
23 STAFF STATION @ MEDIA CENTER - SOUTH ELEVATION
A11.2 SCALE: 1/2" = 1'-0"



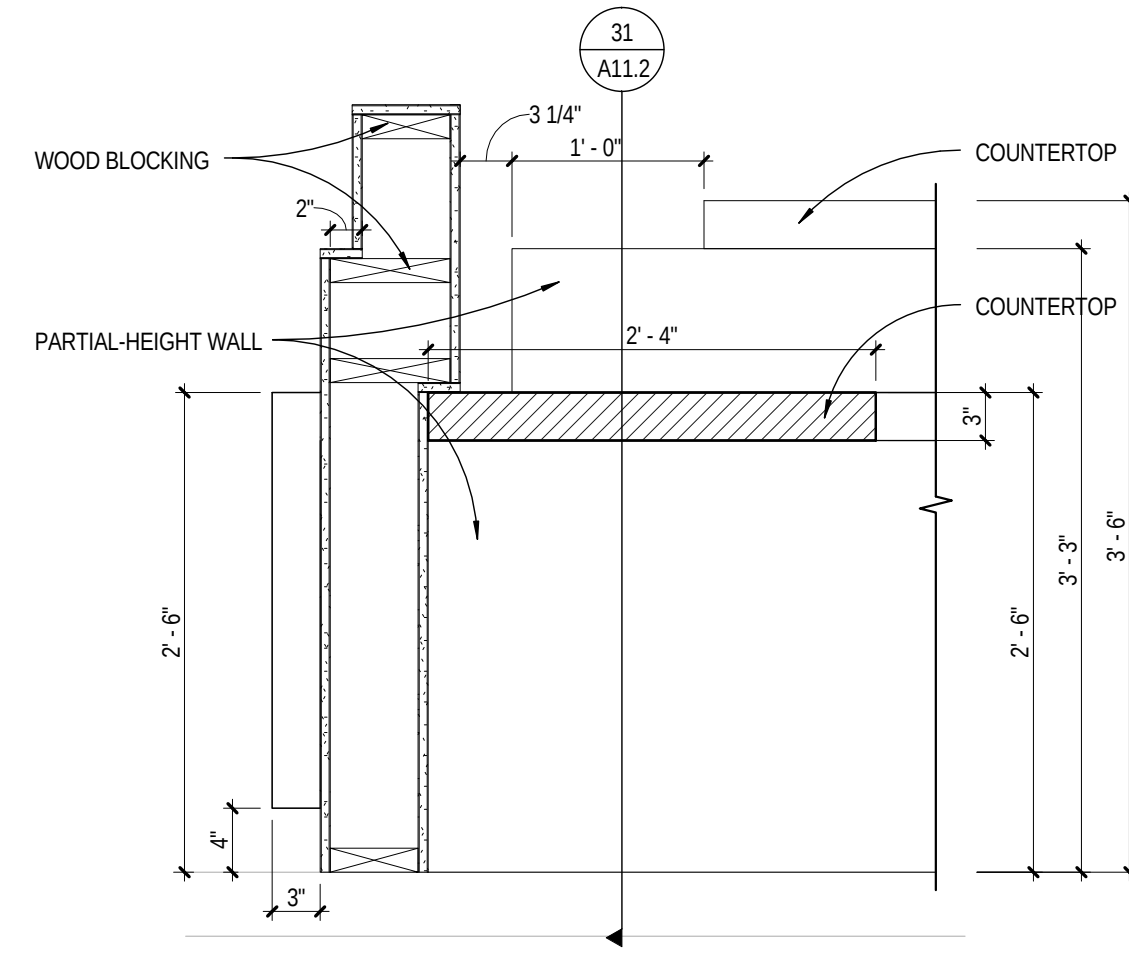
24 STAFF STATION @ MEDIA CENTER - WEST ELEVATION
A11.2 SCALE: 1/2" = 1'-0"



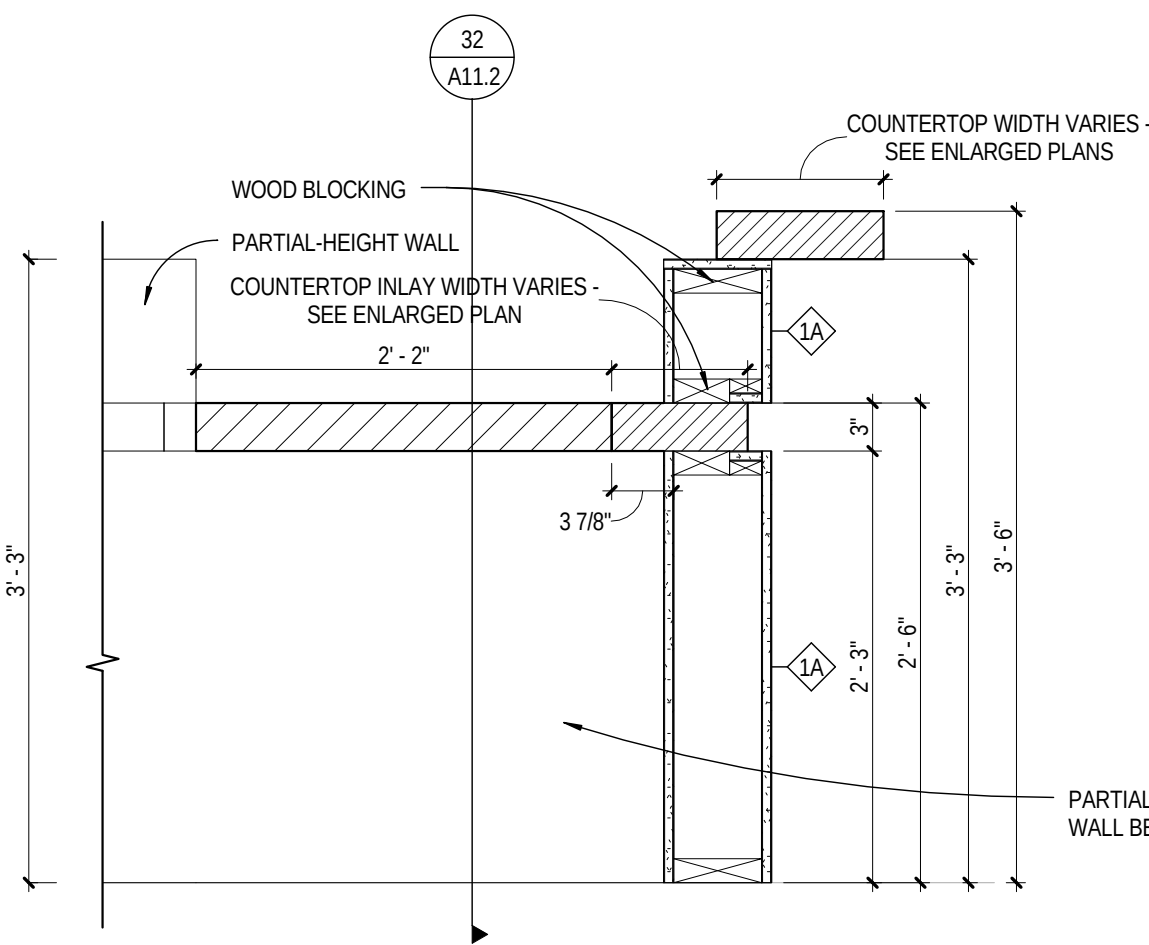
31 STAFF STATION @ MEDIA CENTER - SECTION 01
A11.2 SCALE: 1" = 1'-0"



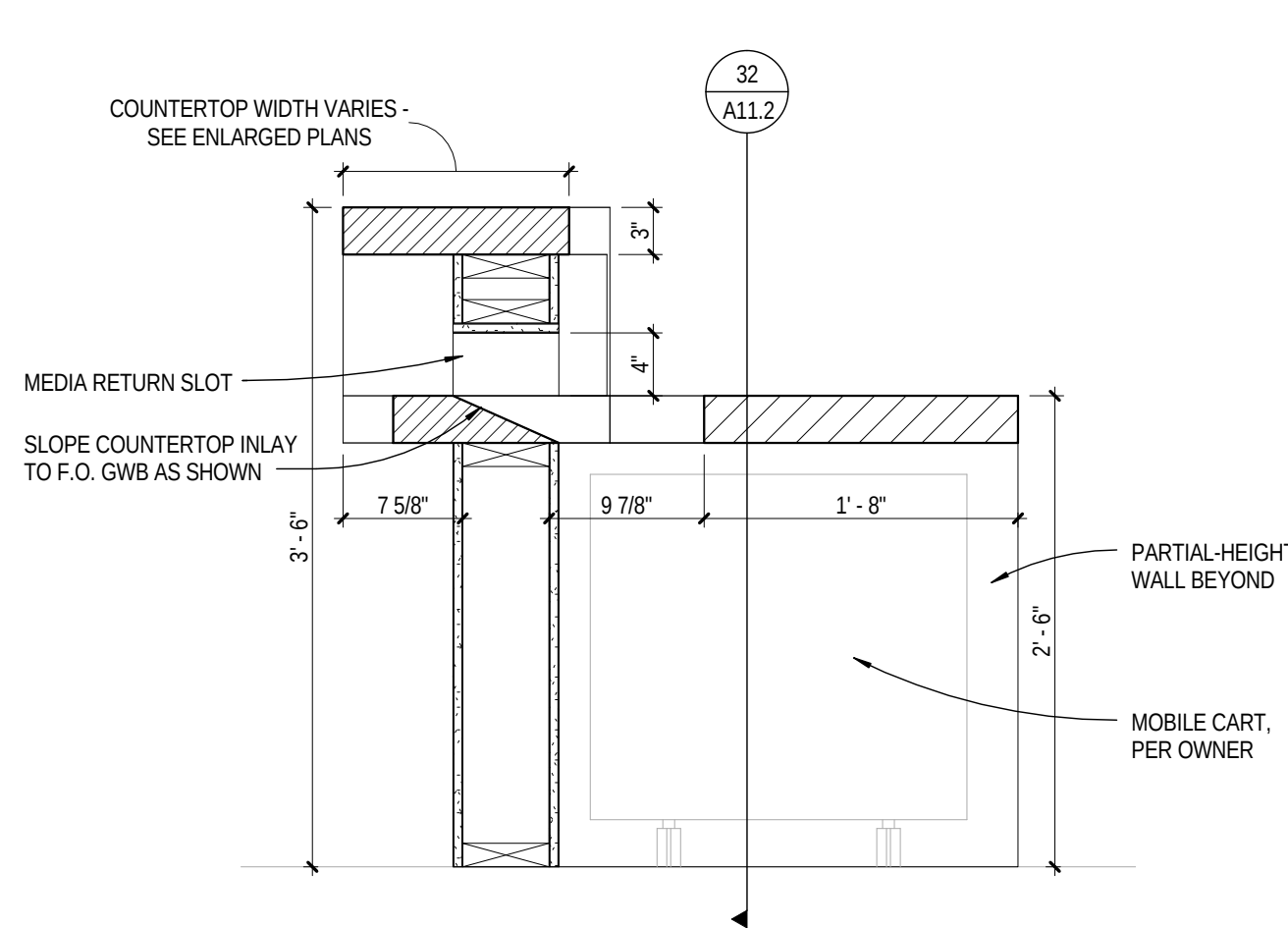
32 STAFF STATION @ MEDIA CENTER - SECTION 02
A11.2 SCALE: 1" = 1'-0"



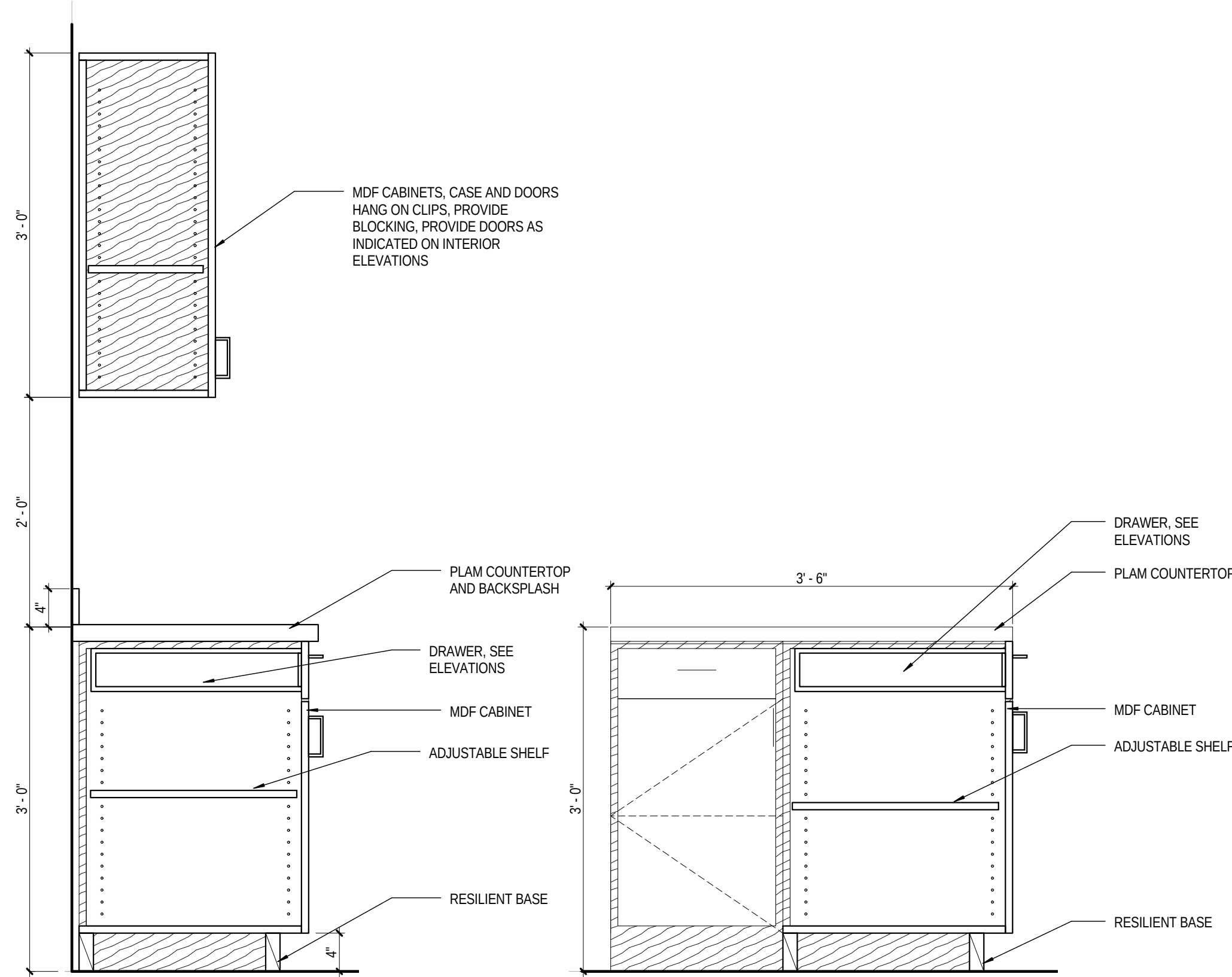
35 STAFF STATION @ MEDIA CENTER - SECTION 03
A11.2 SCALE: 1" = 1'-0"



41 STAFF STATION @ MEDIA CENTER - SECTION 05
A11.2 SCALE: 1" = 1'-0"

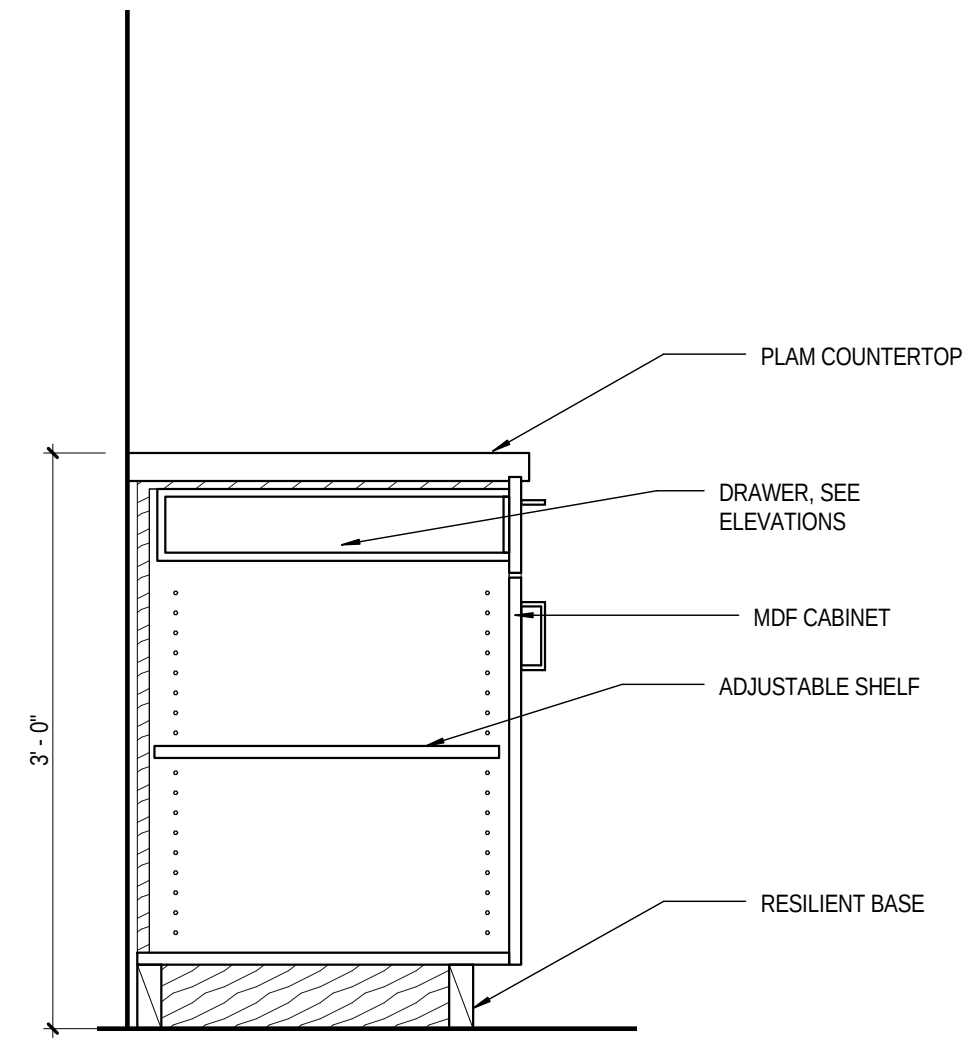


42 STAFF STATION @ MEDIA CENTER - SECTION 06
A11.2 SCALE: 1" = 1'-0"

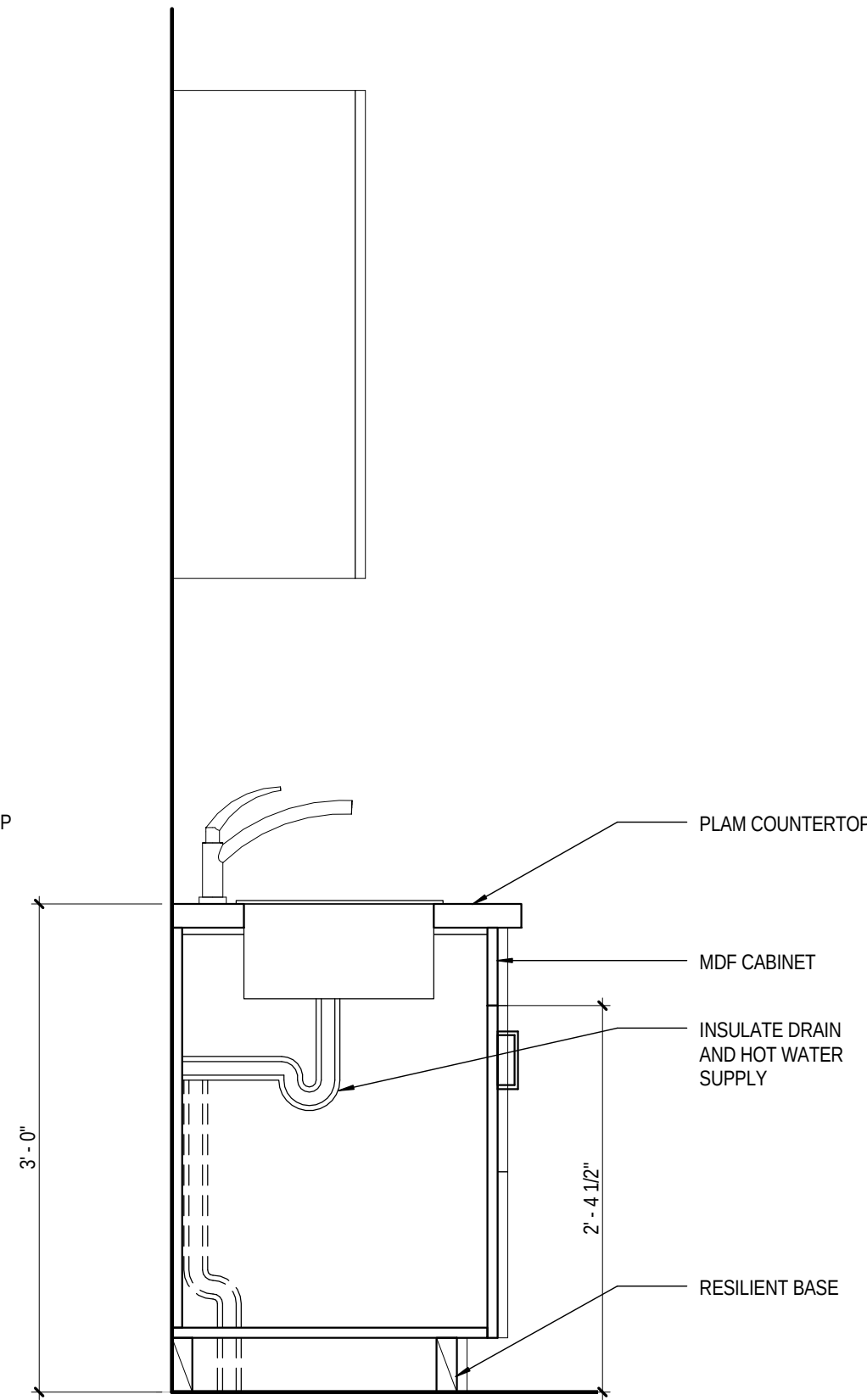


1 BASE W/ UPPER CABINET
A11.3 SCALE: 1" = 1'-0"

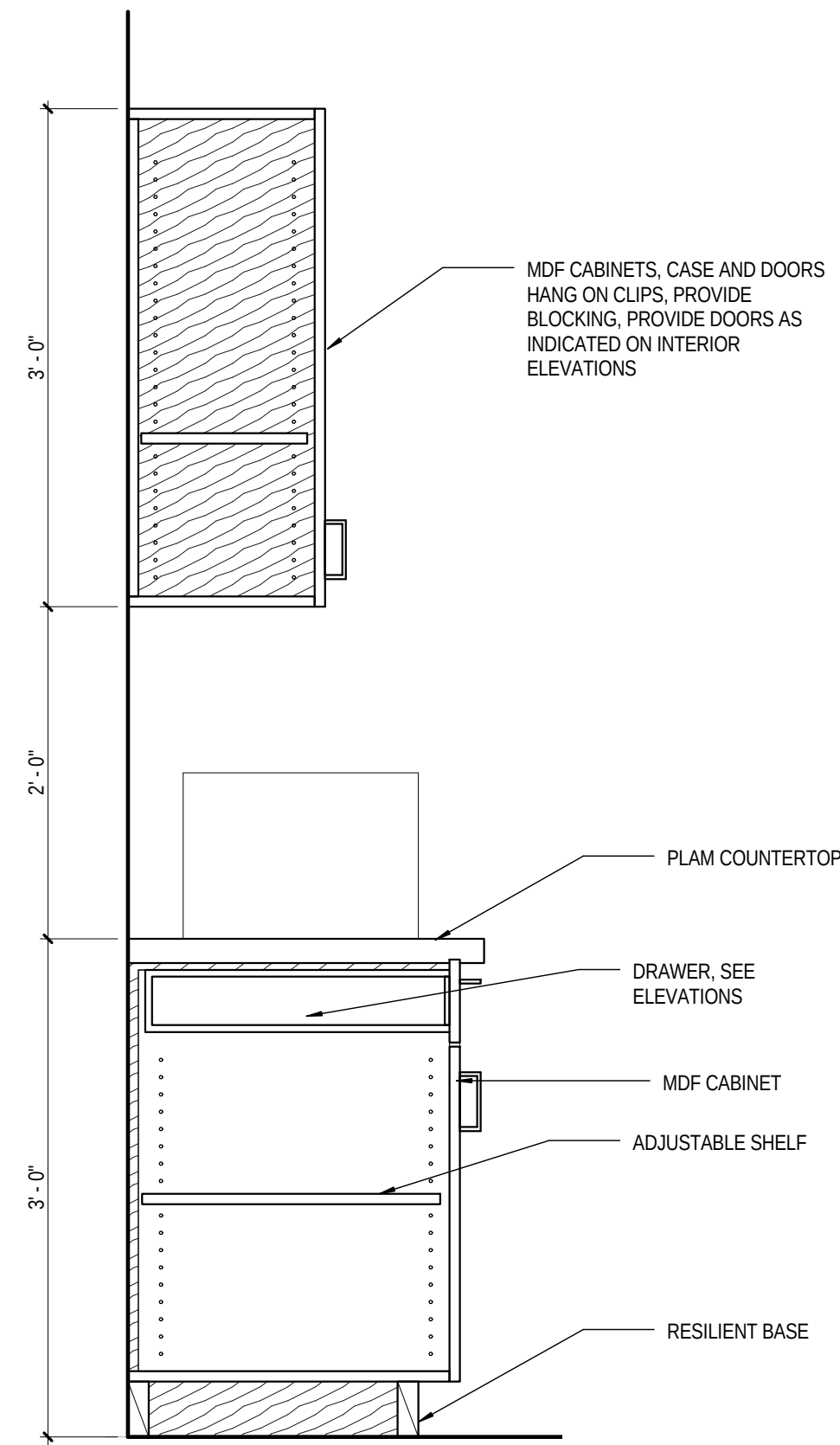
2 ISLAND
A11.3 SCALE: 1" = 1'-0"



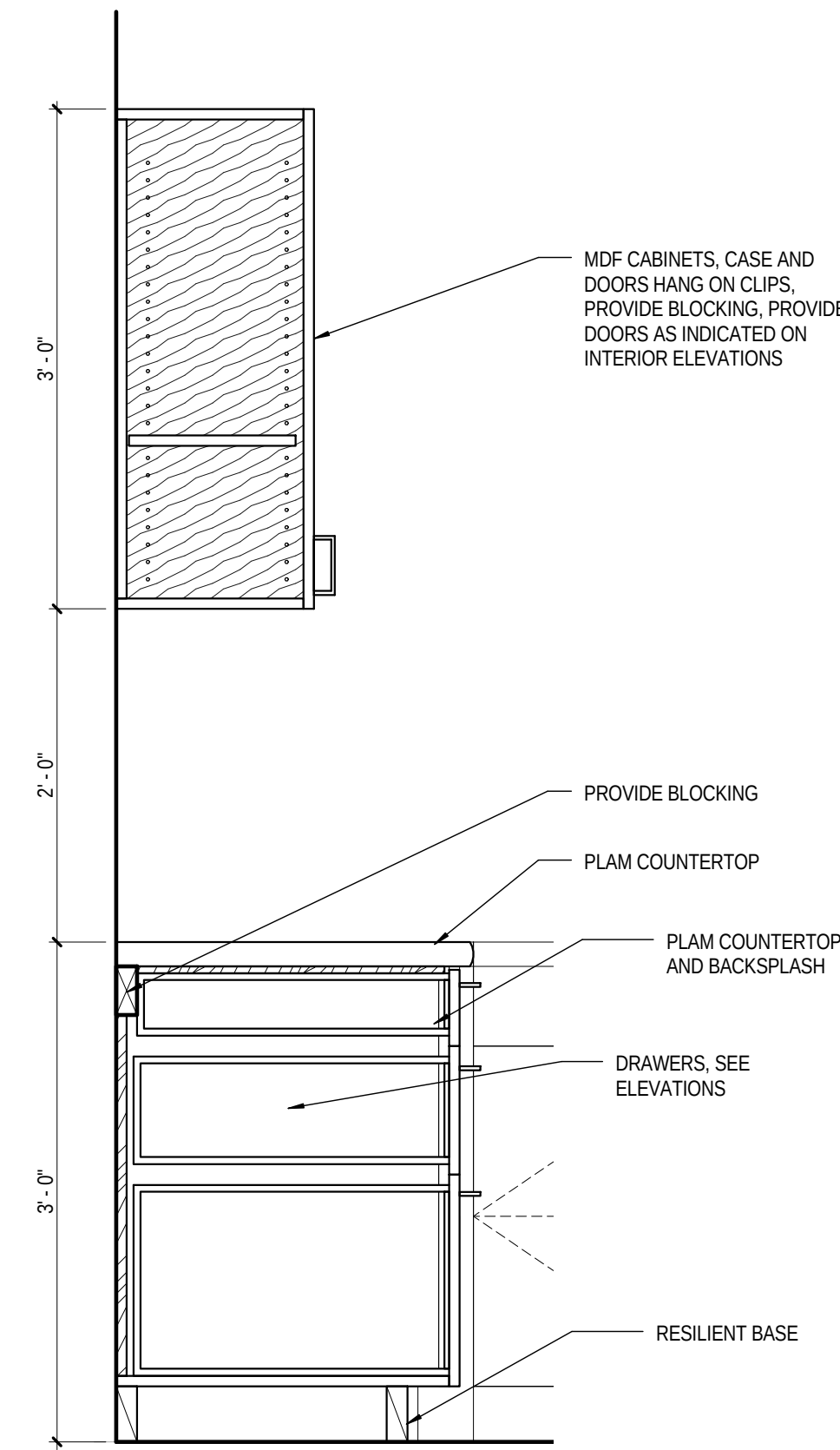
3 BASE CABINET
A11.3 SCALE: 1" = 1'-0"



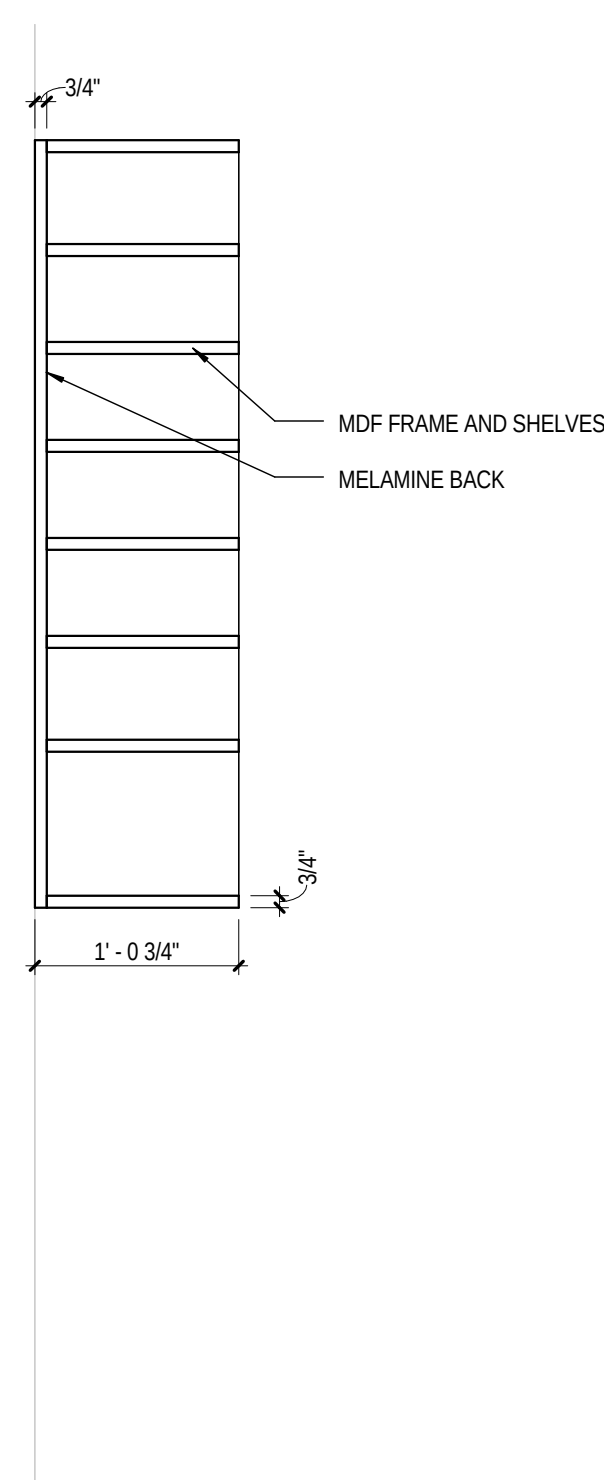
4 SINK
A11.3 SCALE: 1" = 1'-0"



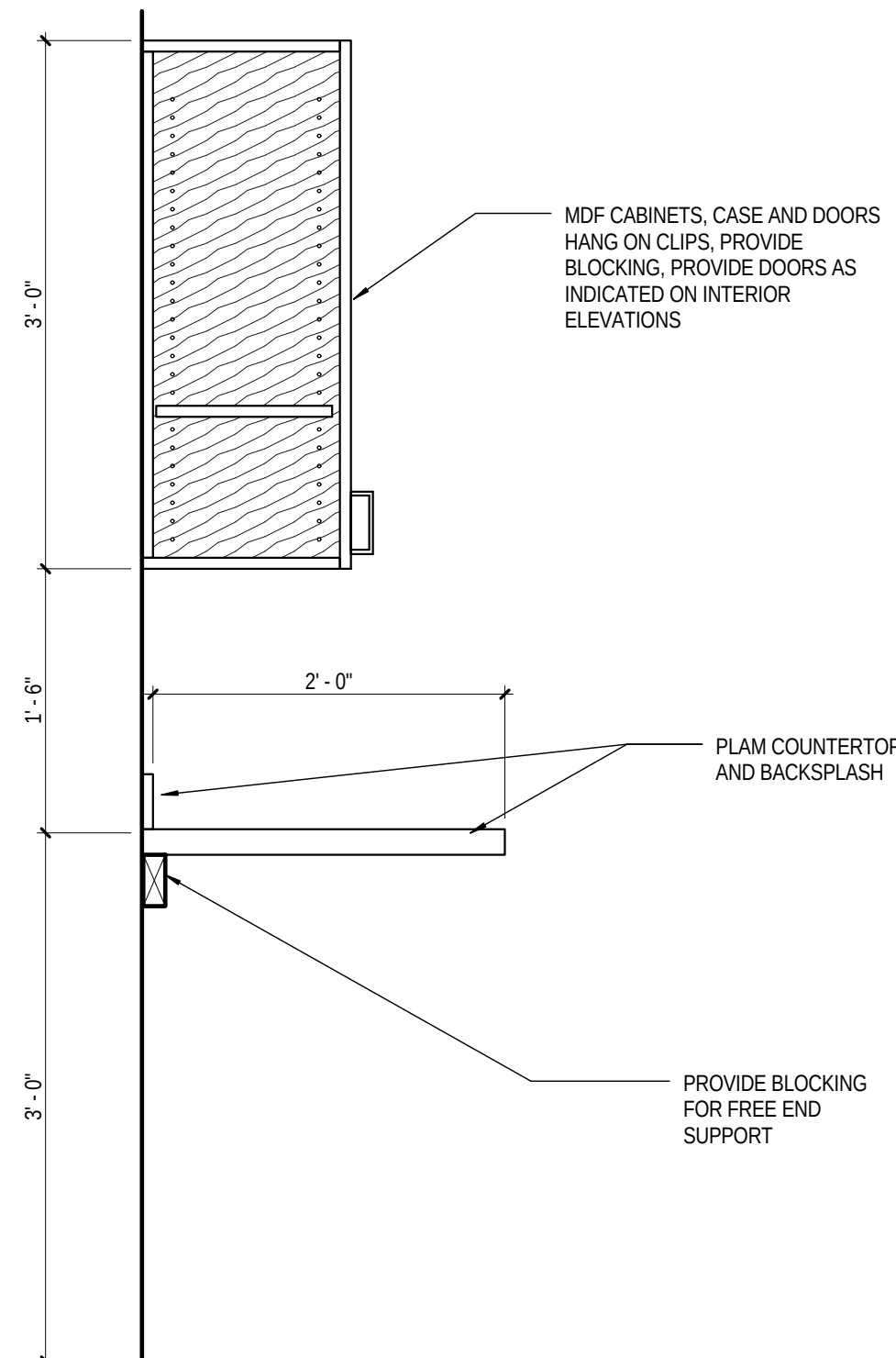
5 BASE W/ UPPER CABINETS
A11.3 SCALE: 1" = 1'-0"



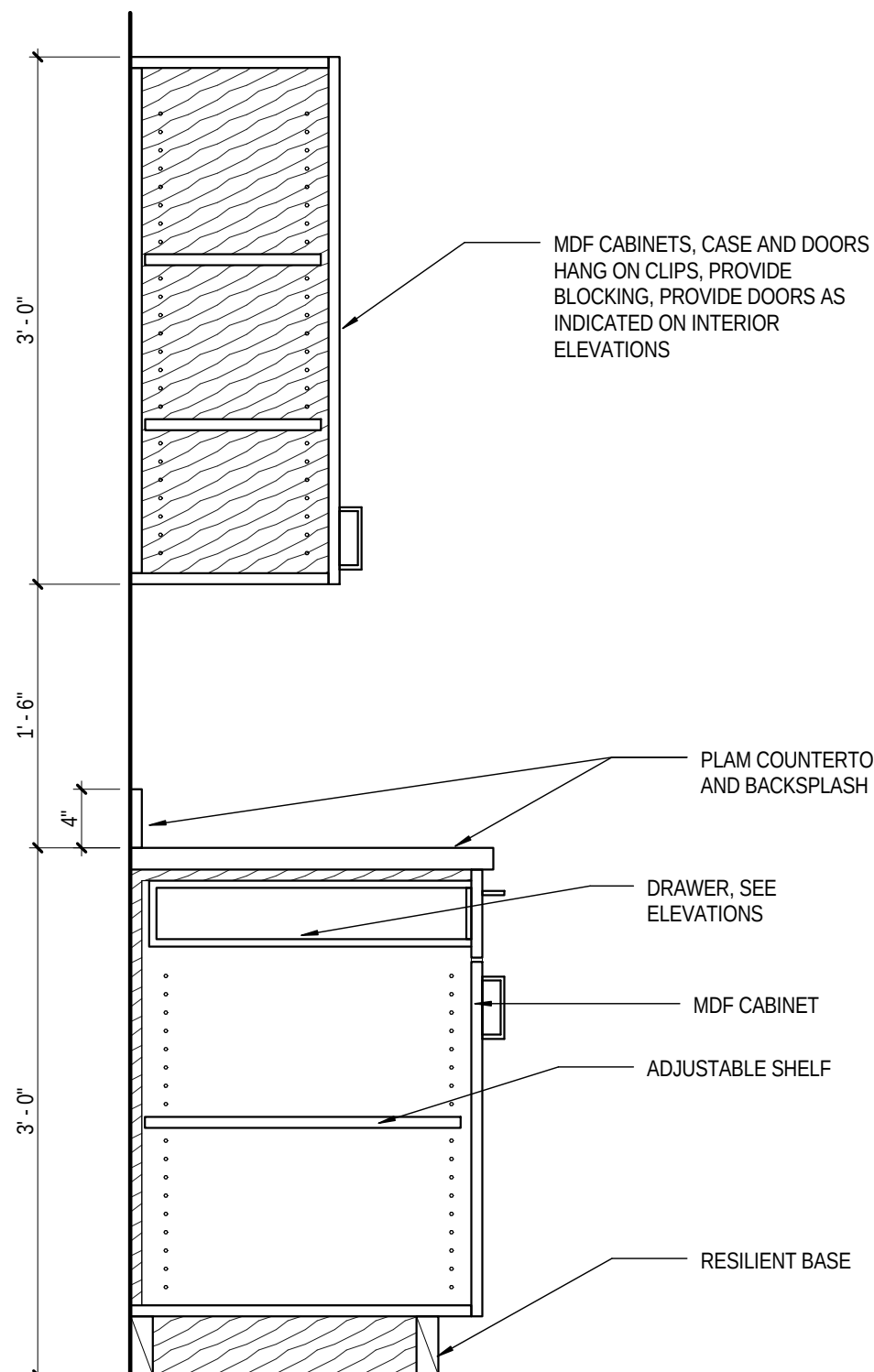
6 COUNTER W/ CABINETS
A11.3 SCALE: 1" = 1'-0"



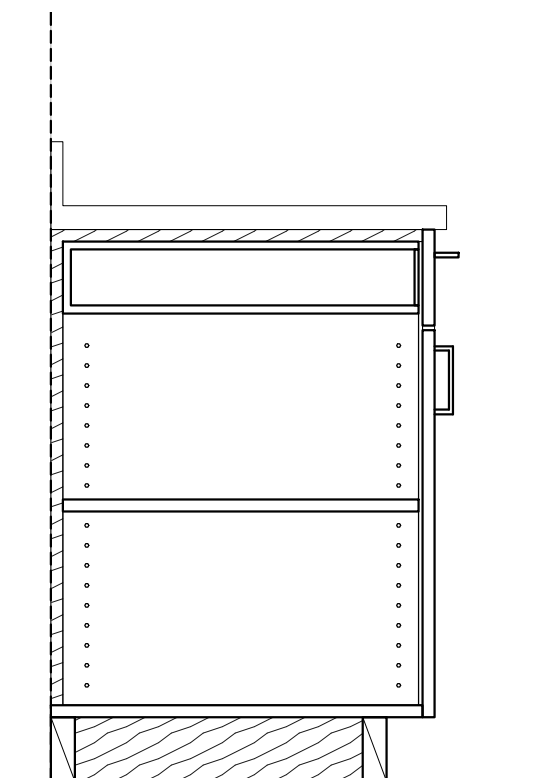
7 MAILBOXES
A11.3 SCALE: 1" = 1'-0"



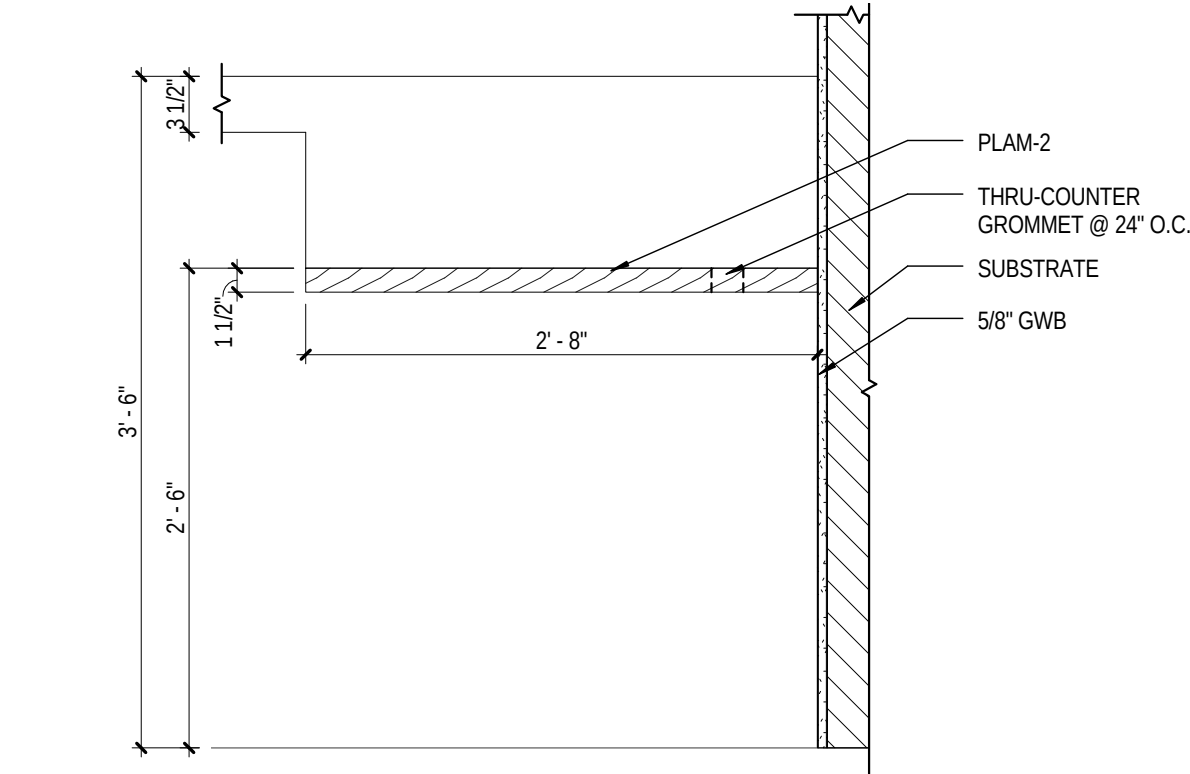
8 COUNTER
A11.3 SCALE: 1" = 1'-0"



9 HEALTH
A11.3 SCALE: 1" = 1'-0"

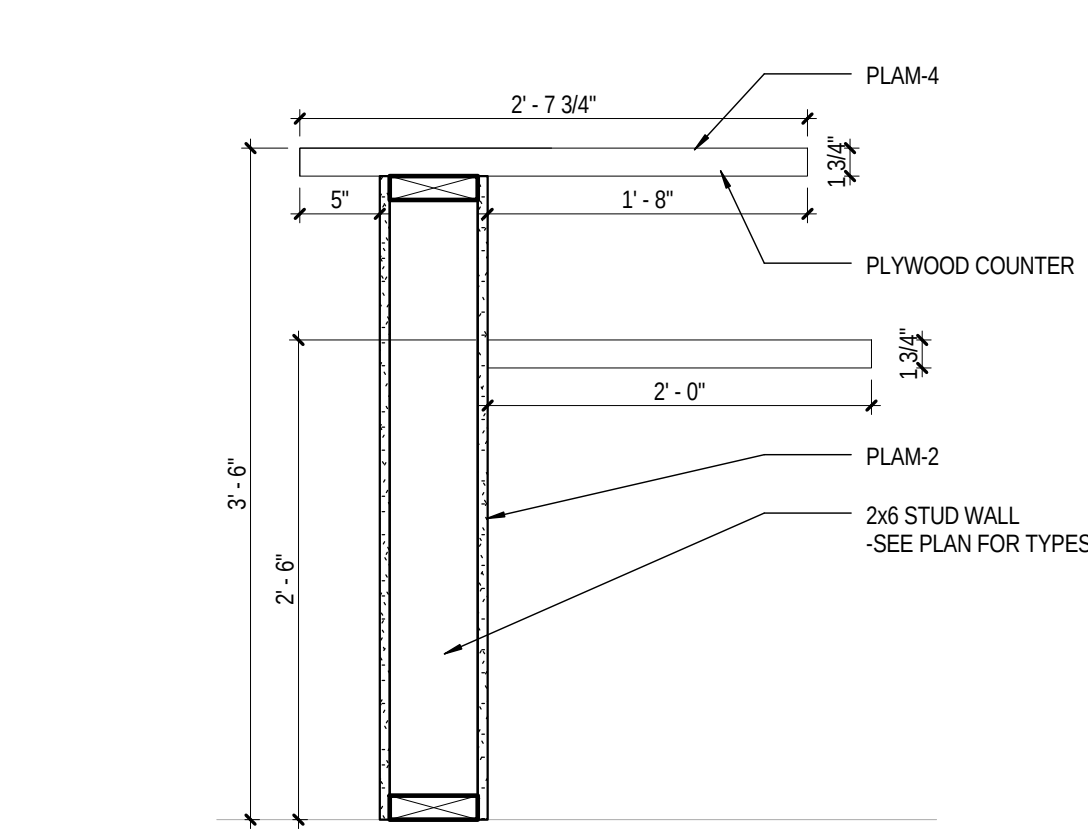


10 TECH LAB
A11.3 SCALE: 1" = 1'-0"



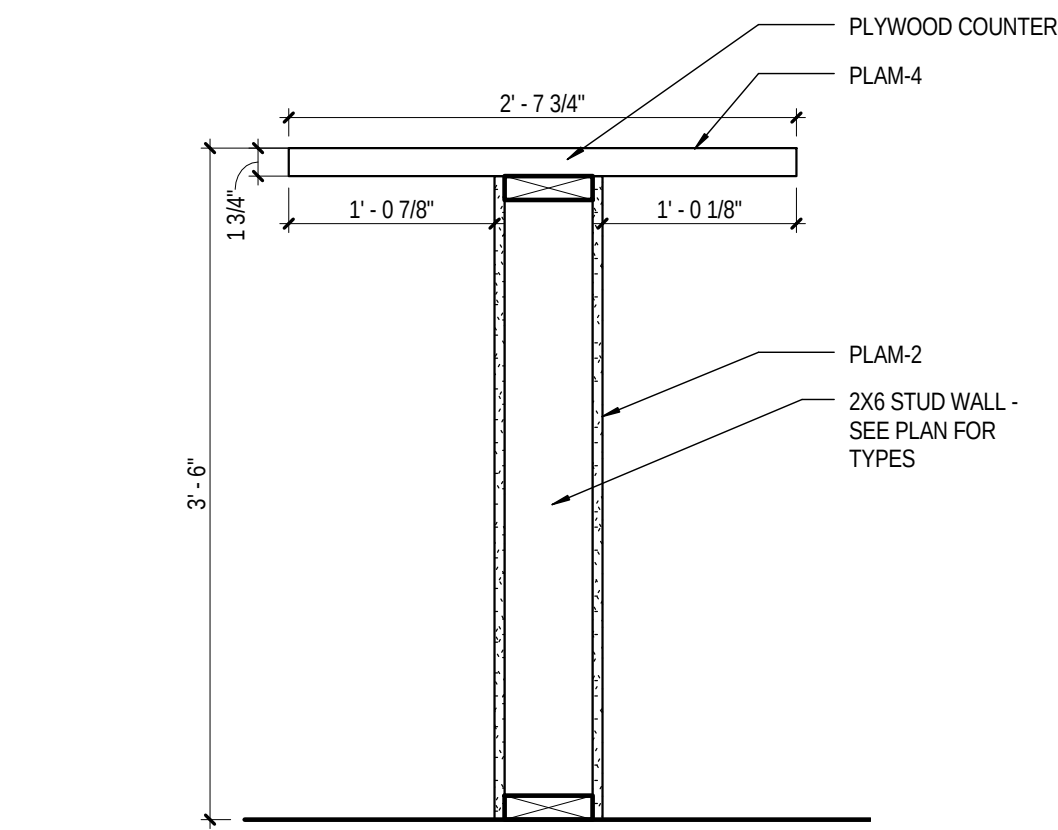
21
A11.4
SCALE: 1" = 1'-0"

MEDIA CENTER @ COMPUTER BENCH



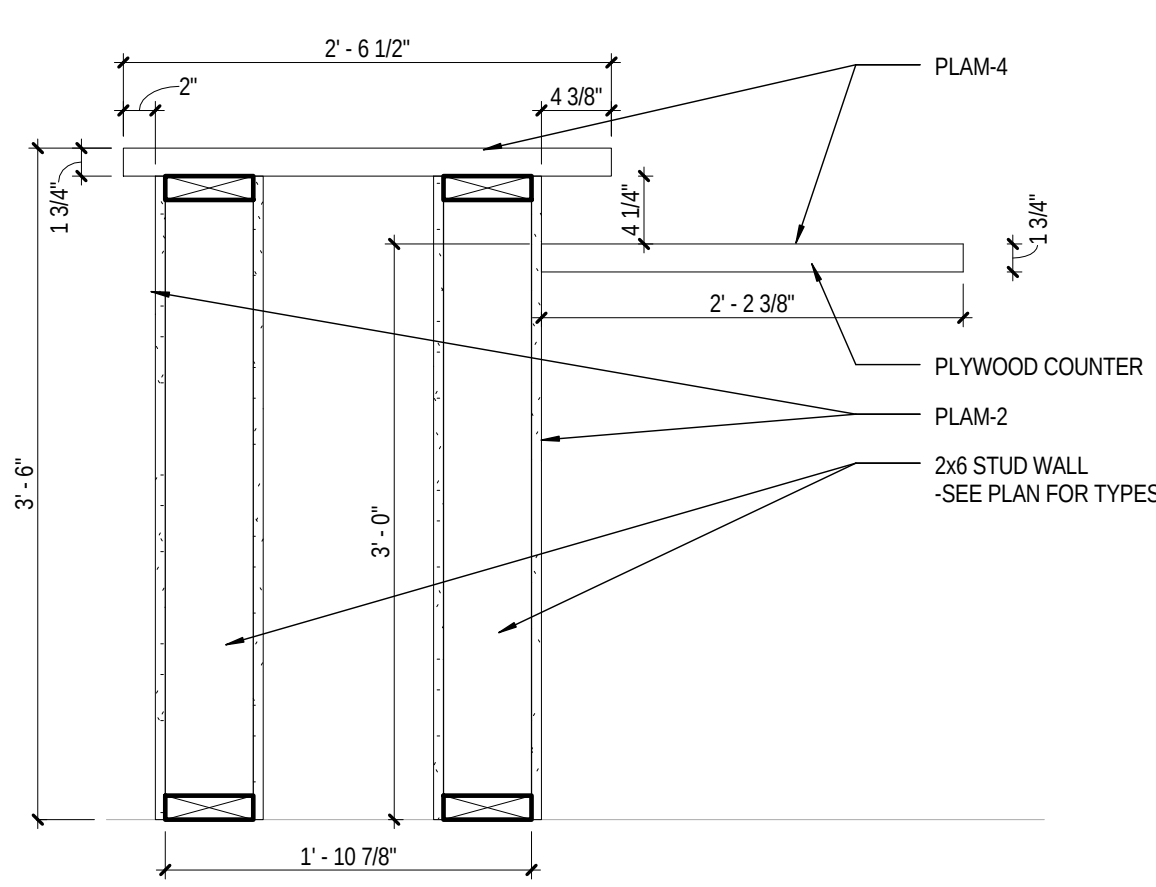
11
A11.4
SCALE: 1" = 1'-0"

RECEPTION - COUNTER



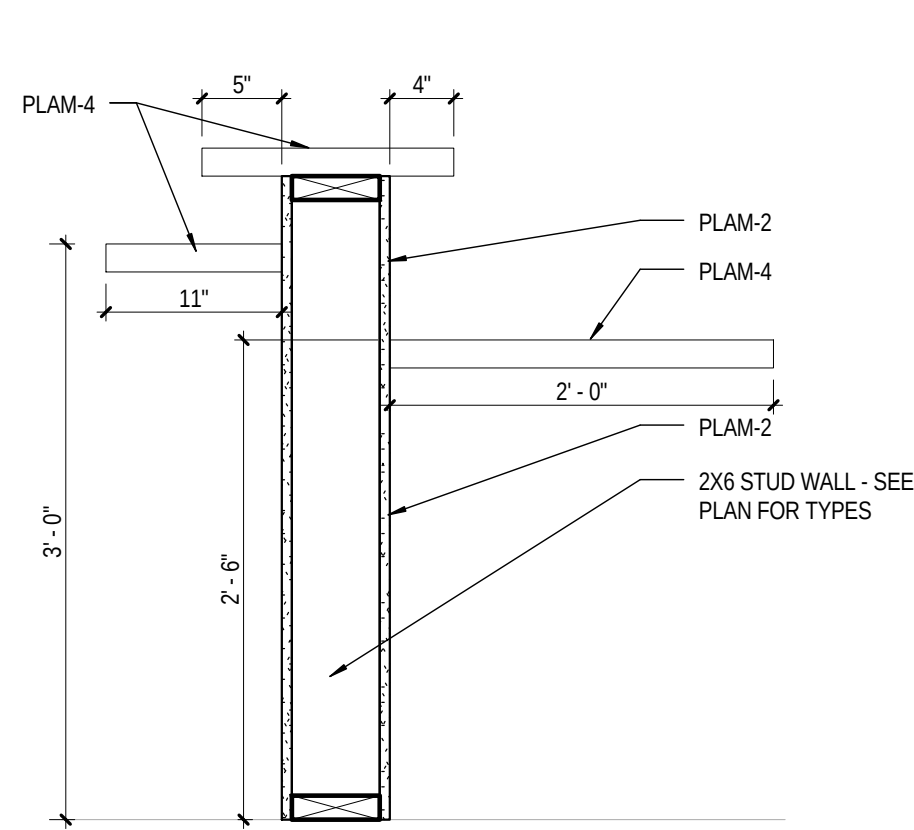
12
A11.4
SCALE: 1" = 1'-0"

RECEPTION - UPPER COUNTER



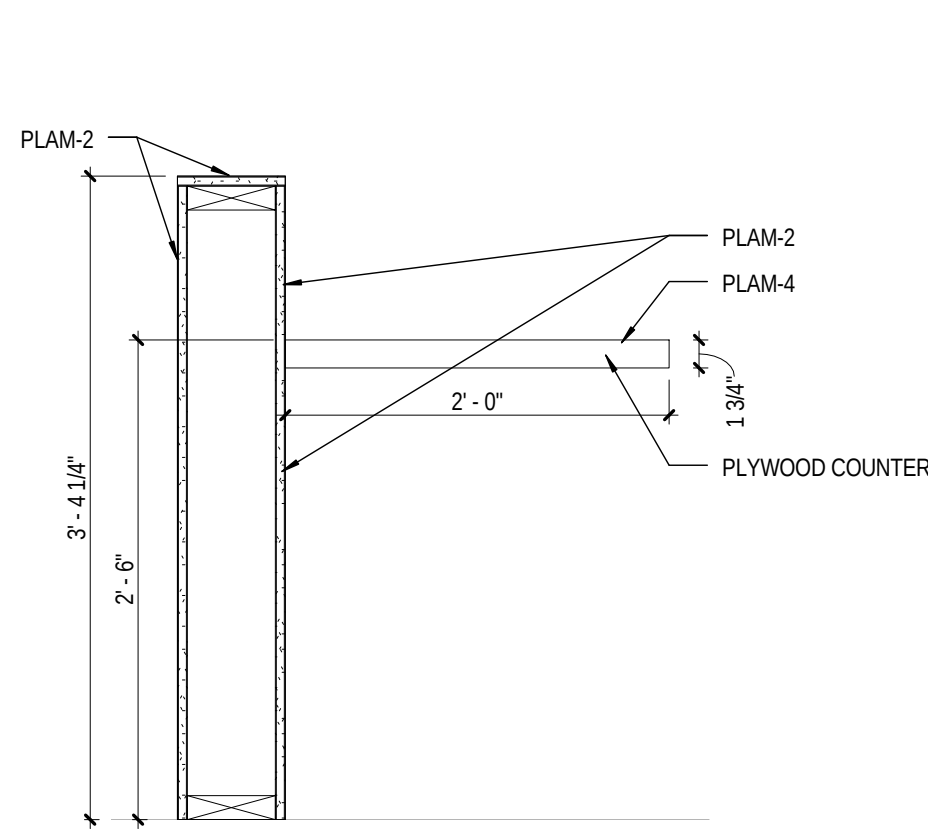
13
A11.4
SCALE: 1" = 1'-0"

RECEPTION - LOWER COUNTER



14
A11.4
SCALE: 1" = 1'-0"

WORK AREA - COUNTER



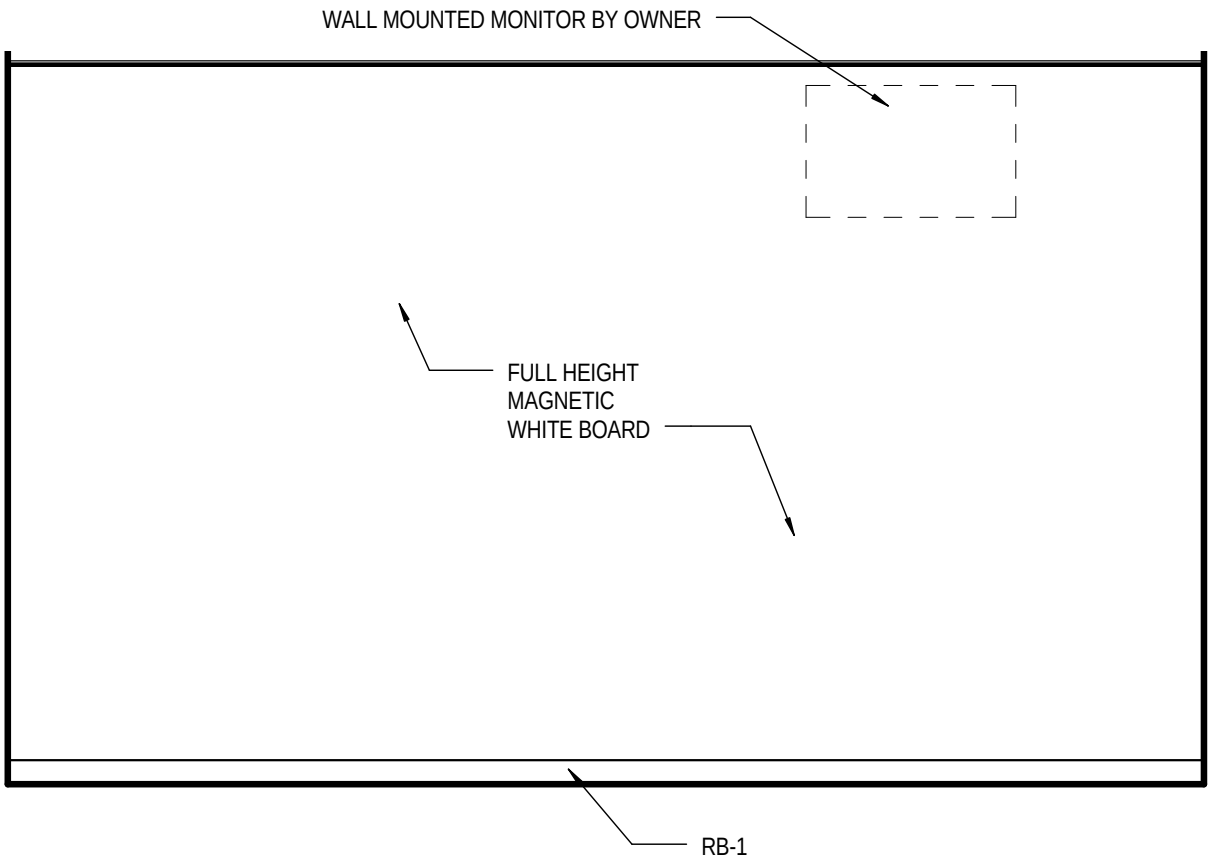
15
A11.4
SCALE: 1" = 1'-0"

WORK AREA - CABINETS

13
A12.1

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

VESTIBULE INTERIOR ELEVATION 03



15
A12.1

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

VESTIBULE INTERIOR ELEVATION 04



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Architecture Planning Interiors

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A12.1

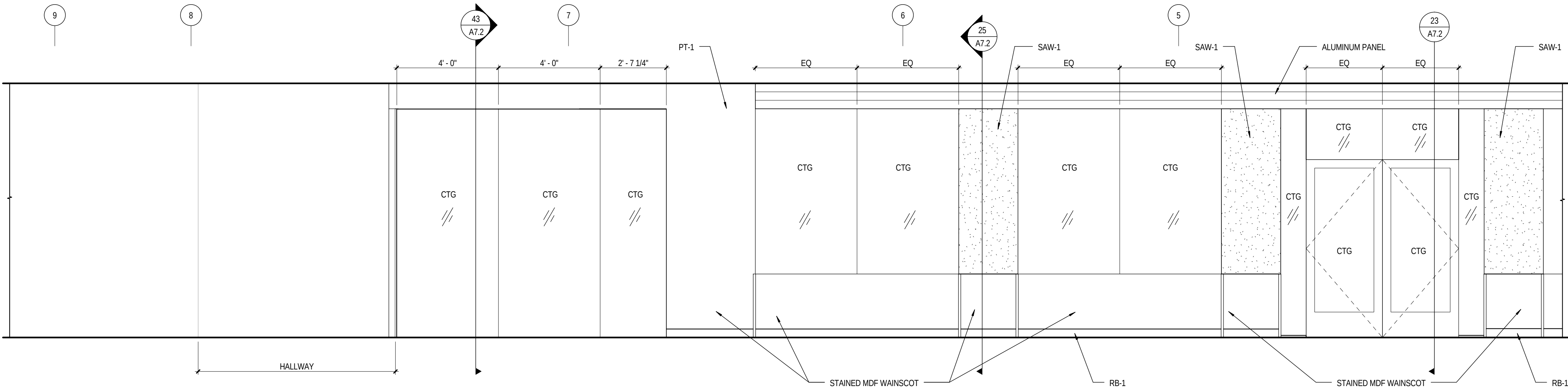
74-13107-30
04.29.2015
REVISIONS

INTERIOR ELEVATIONS
FERN RIDGE MIDDLE SCHOOL
INTERIOR ALTERATIONS

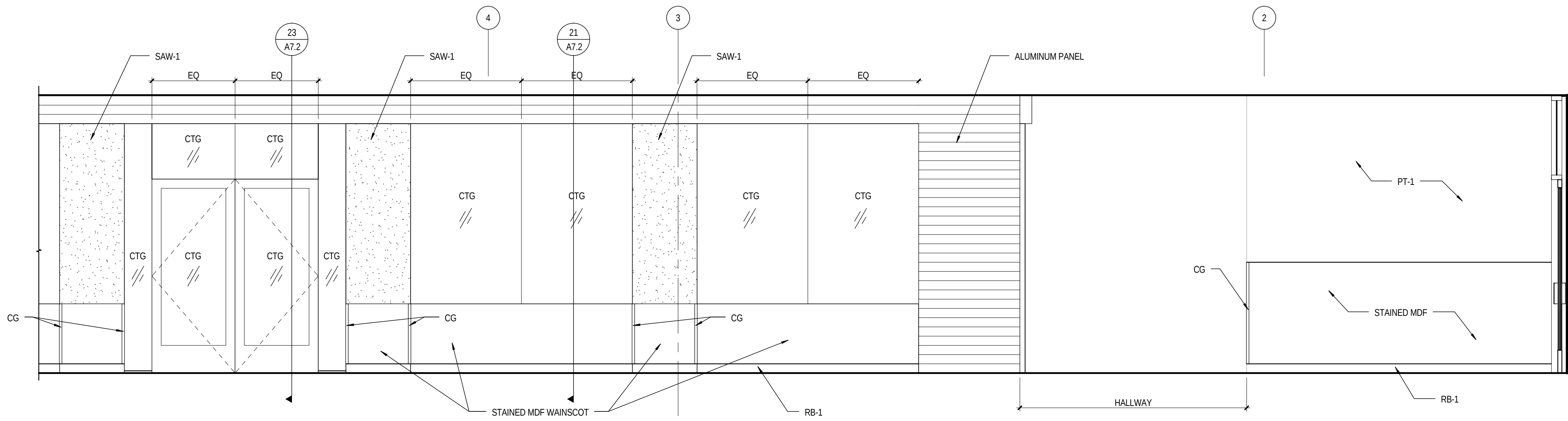
Project Status

PERMIT/BID ISSUE

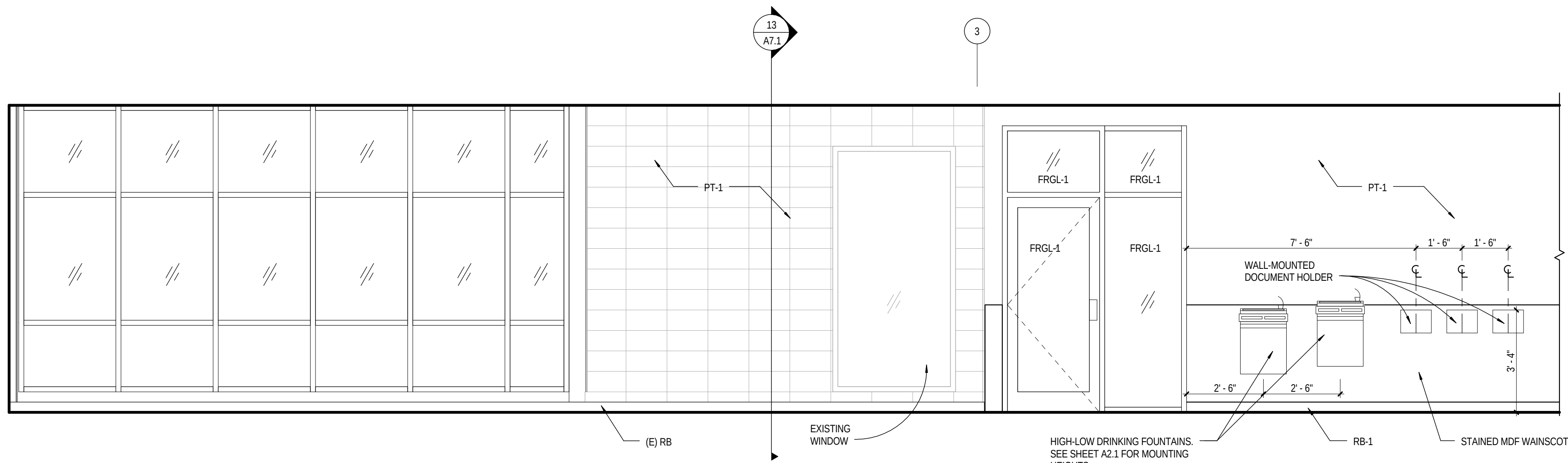




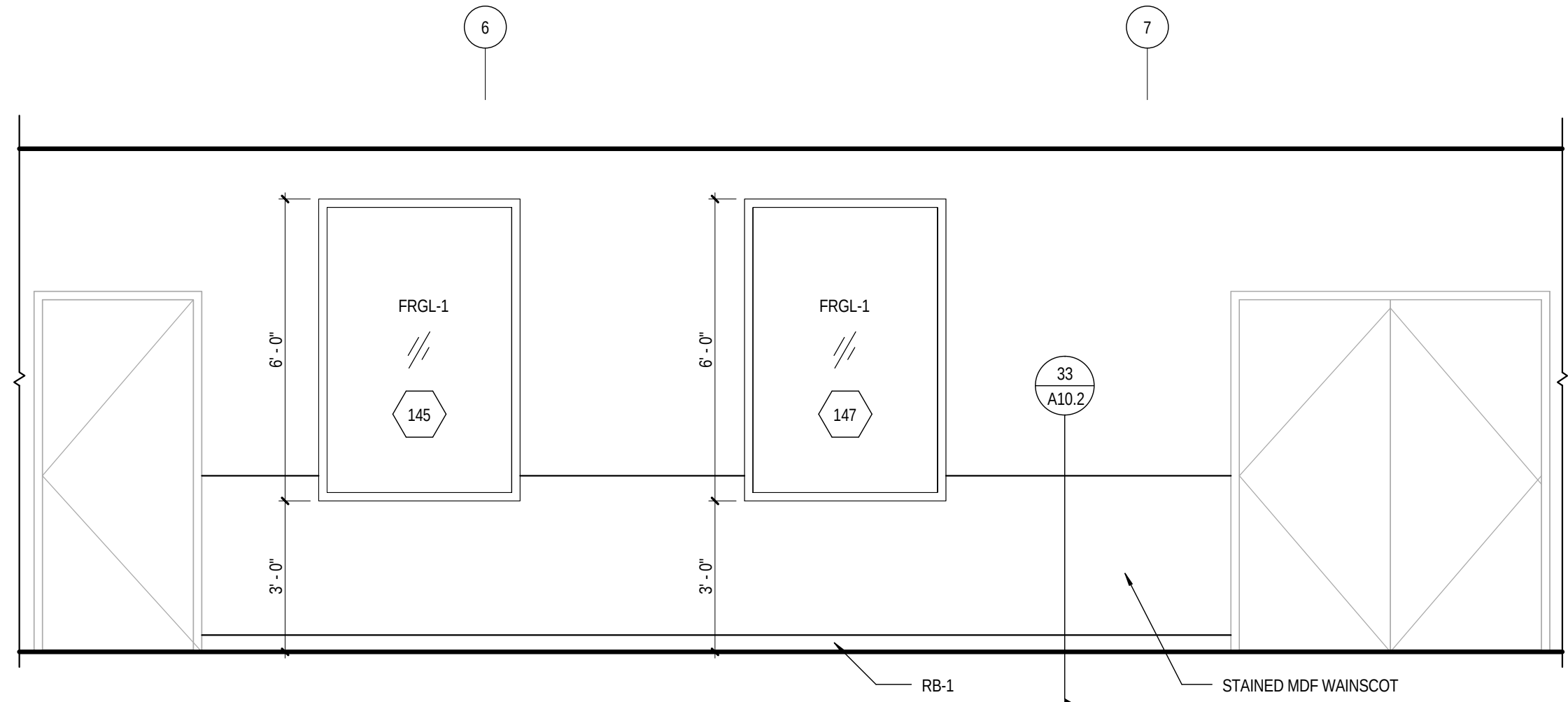
11 MEDIA CENTER NORTH HALLWAY ELEVATION 1
A12.2 SCALE: 3/8" = 1'-0"



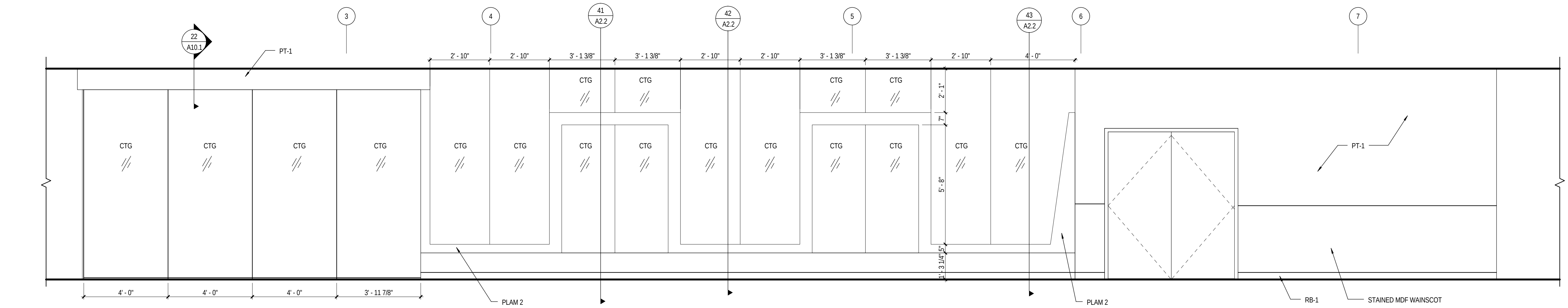
31 MEDIA CENTER NORTH HALLWAY ELEVATION 2
A12.2 SCALE: 3/8" = 1'-0"



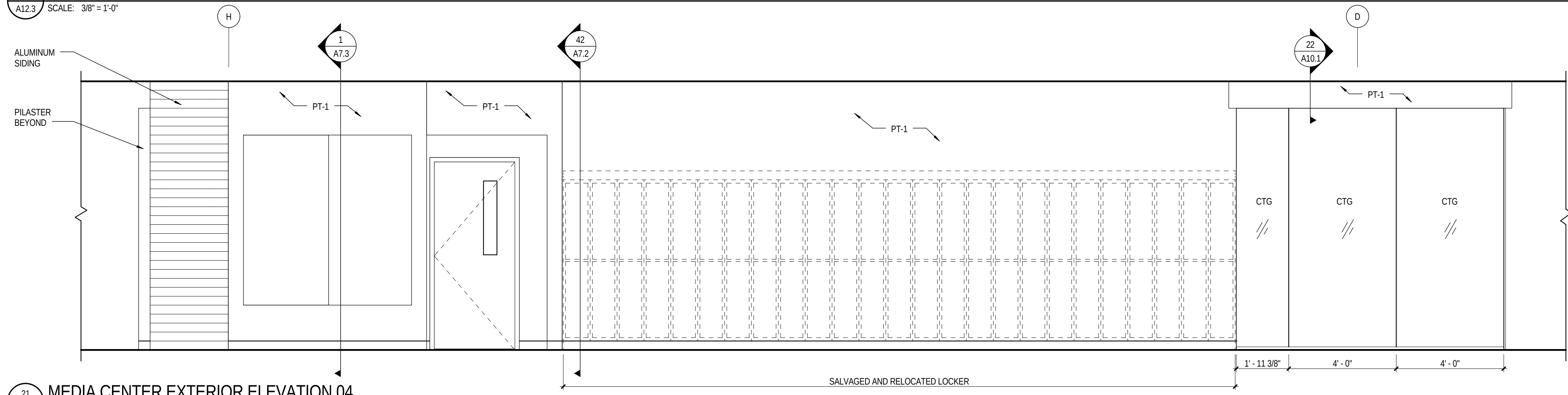
41 RECEPTION/ADMIN CORRIDOR ELEVATION 1
A12.2 SCALE: 3/8" = 1'-0"



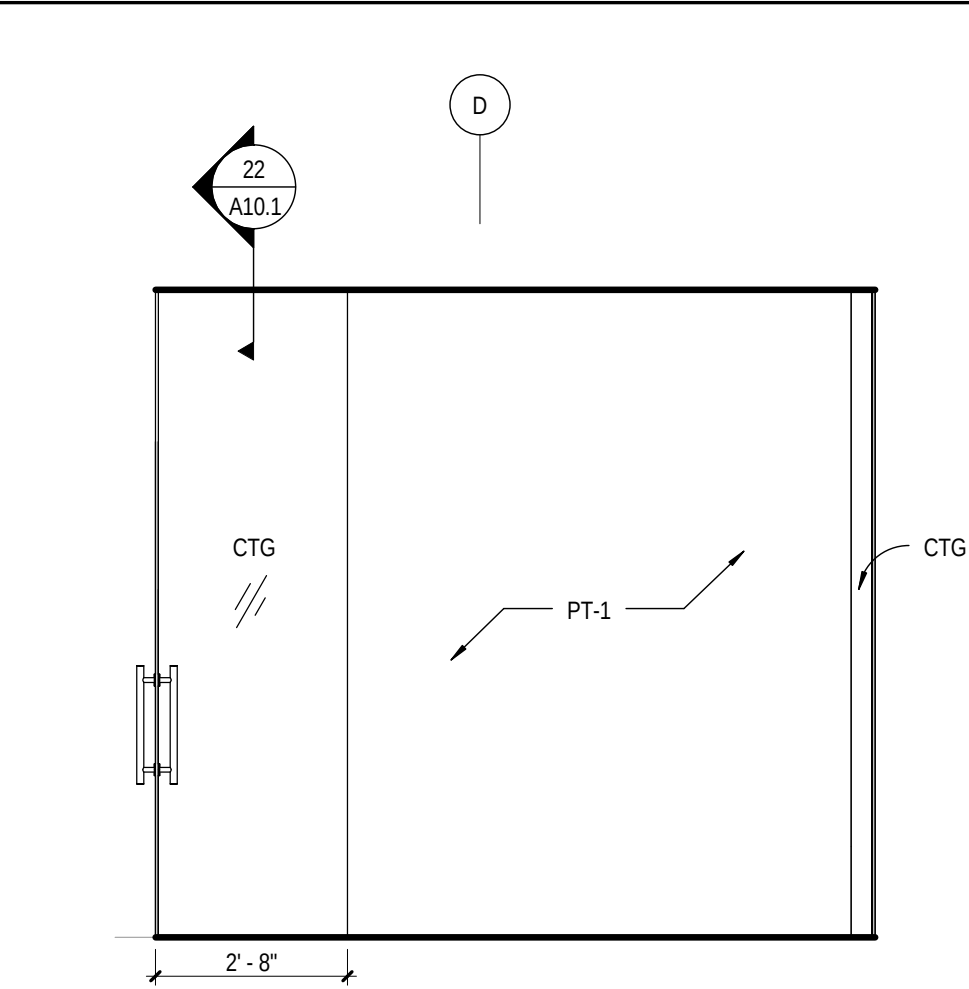
43 RECEPTION/ADMIN CORRIDOR ELEVATION 2
A12.2 SCALE: 3/8" = 1'-0"



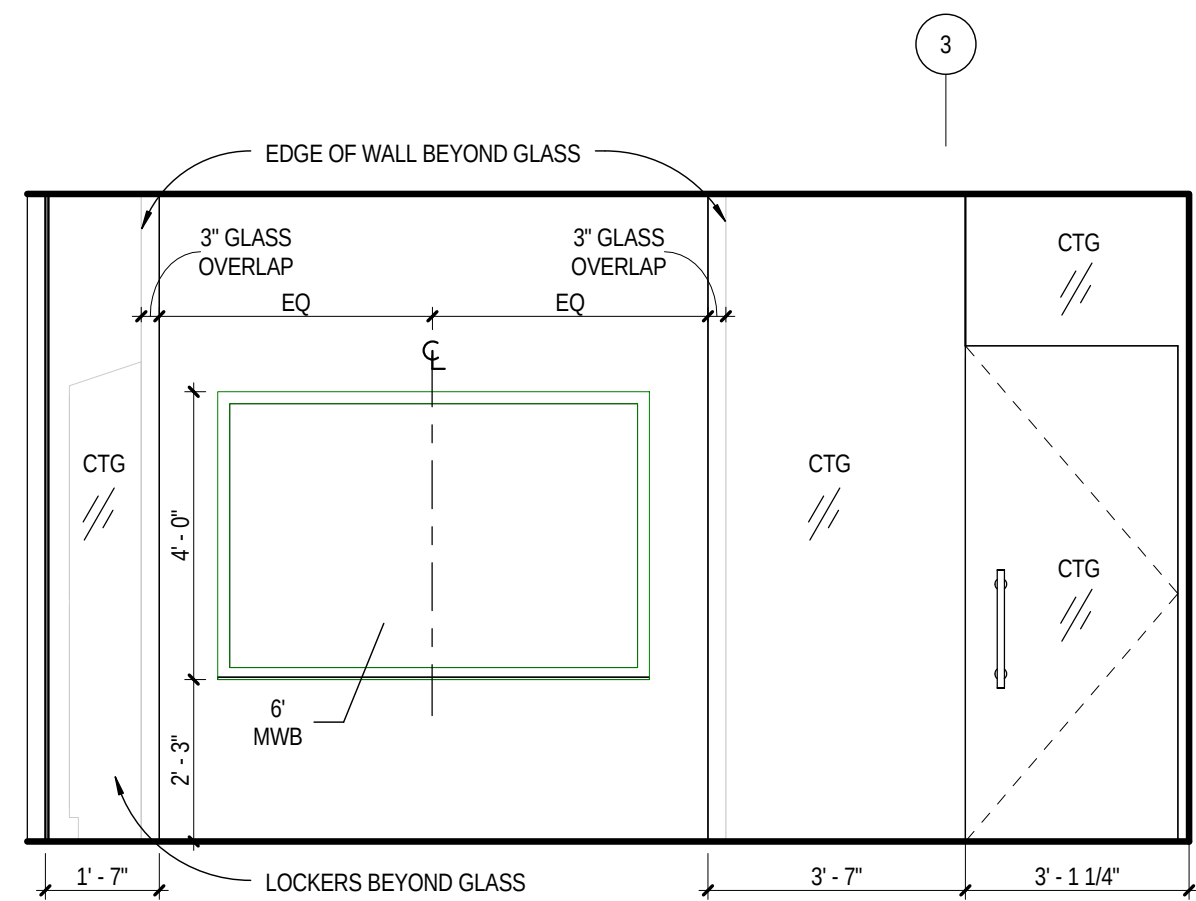
11 MEDIA CENTER EXTERIOR ELEVATION 03
A12.3 SCALE: 3/8" = 1'-0"



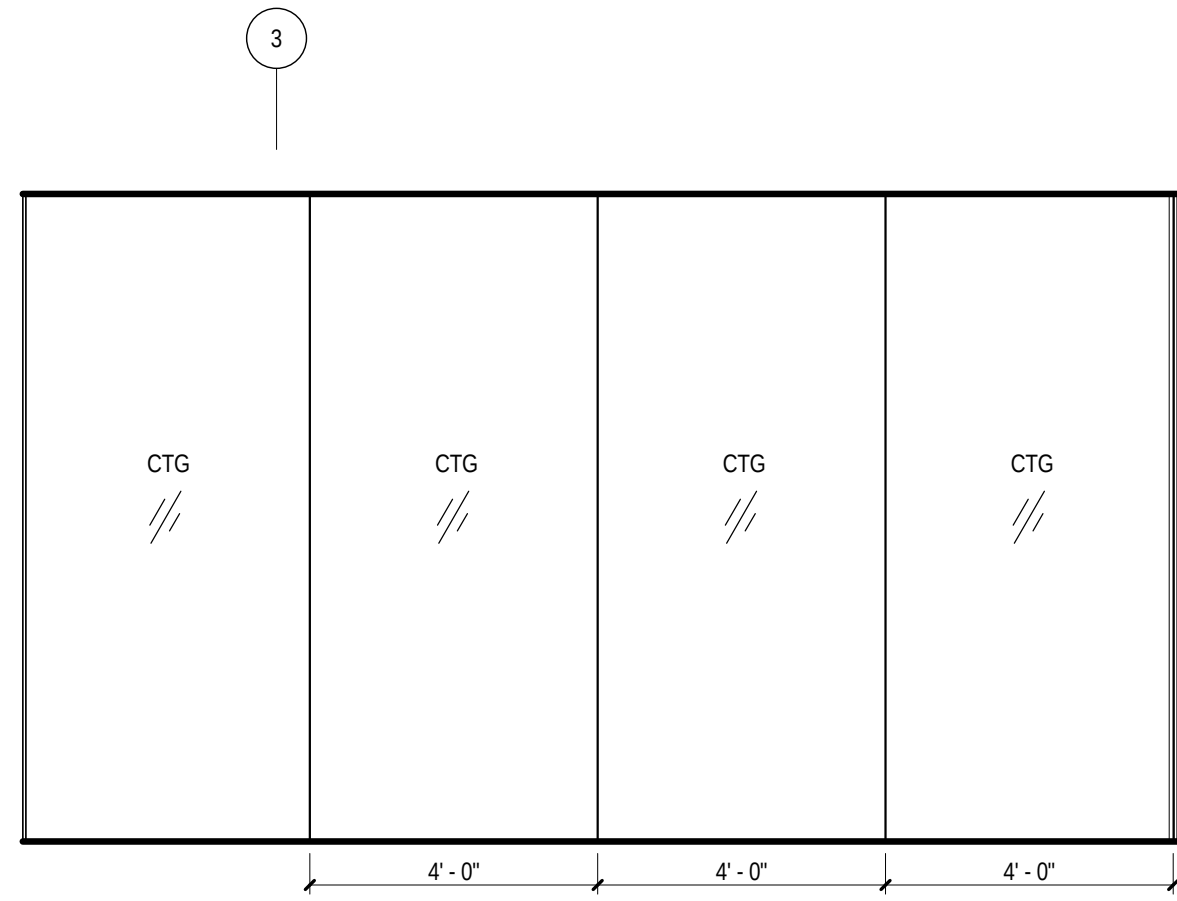
21 MEDIA CENTER EXTERIOR ELEVATION 04
A12.3 SCALE: 3/8" = 1'-0"



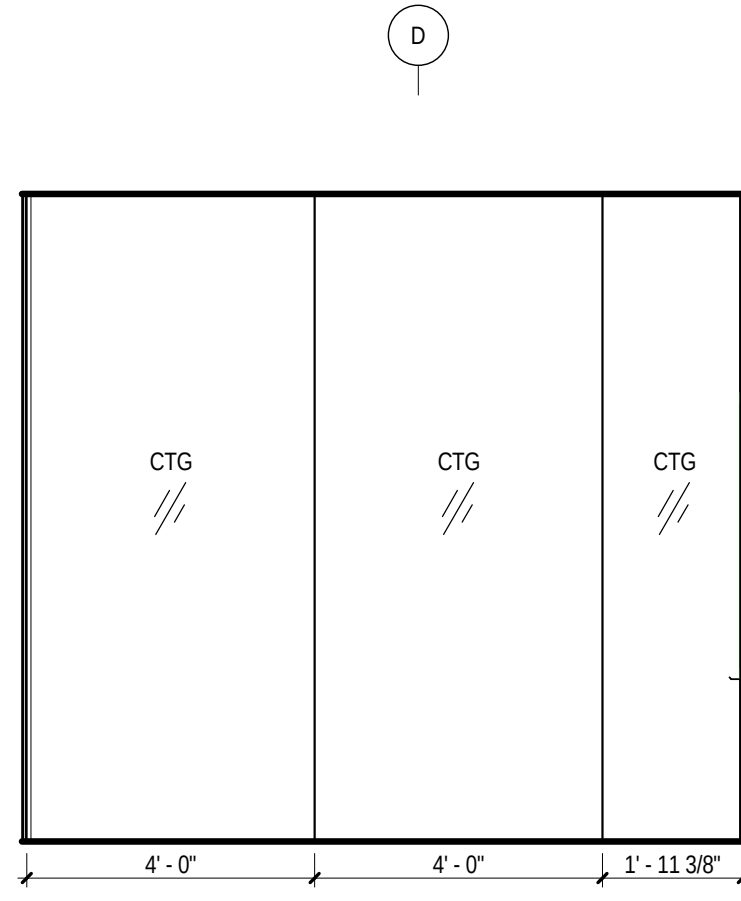
3 MEETING 270 - INTERIOR ELEVATION, EAST
A12.3 SCALE: 3/8" = 1'-0"



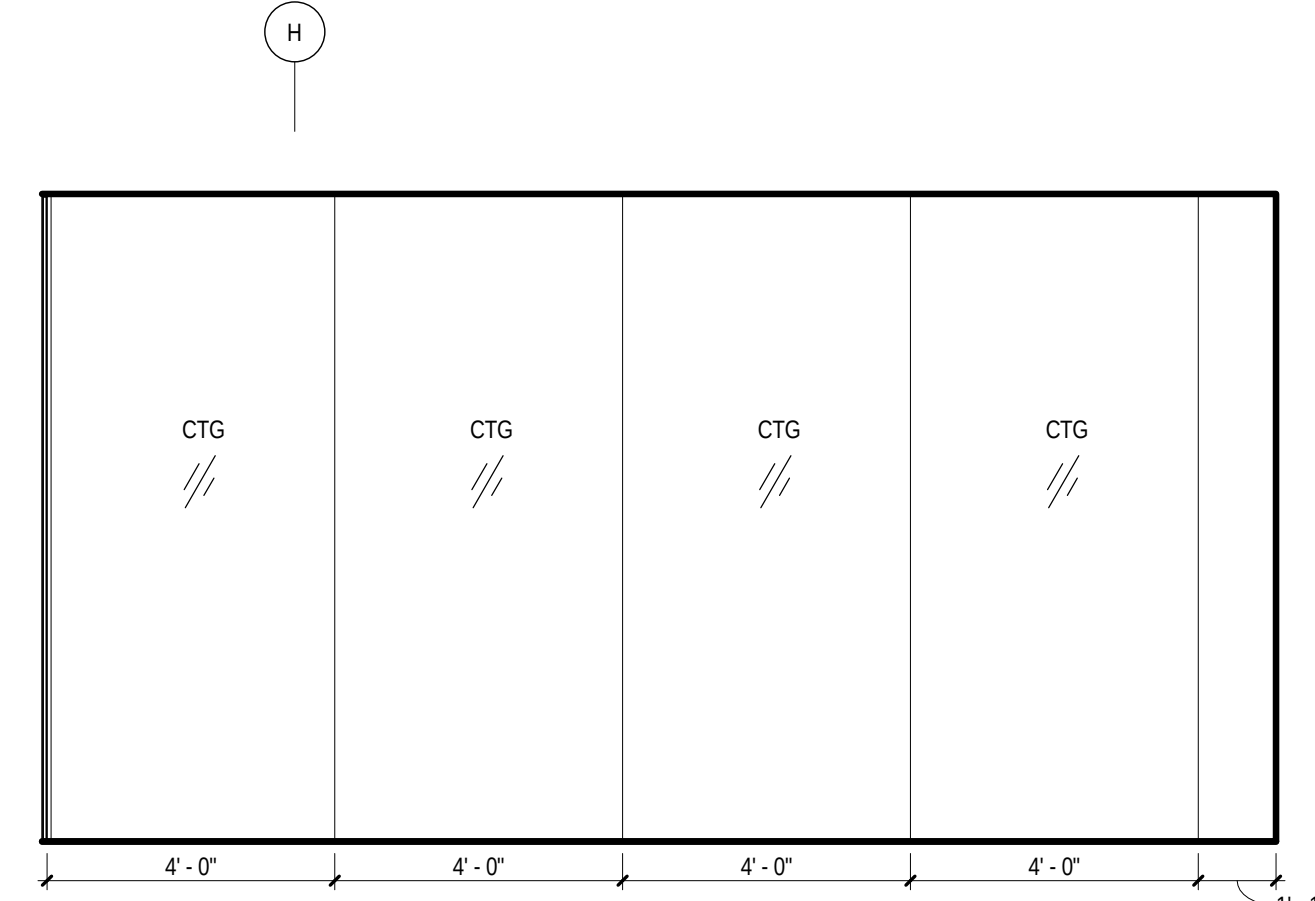
31 MEETING 270 - INTERIOR ELEVATION, NORTH
A12.3 SCALE: 3/8" = 1'-0"



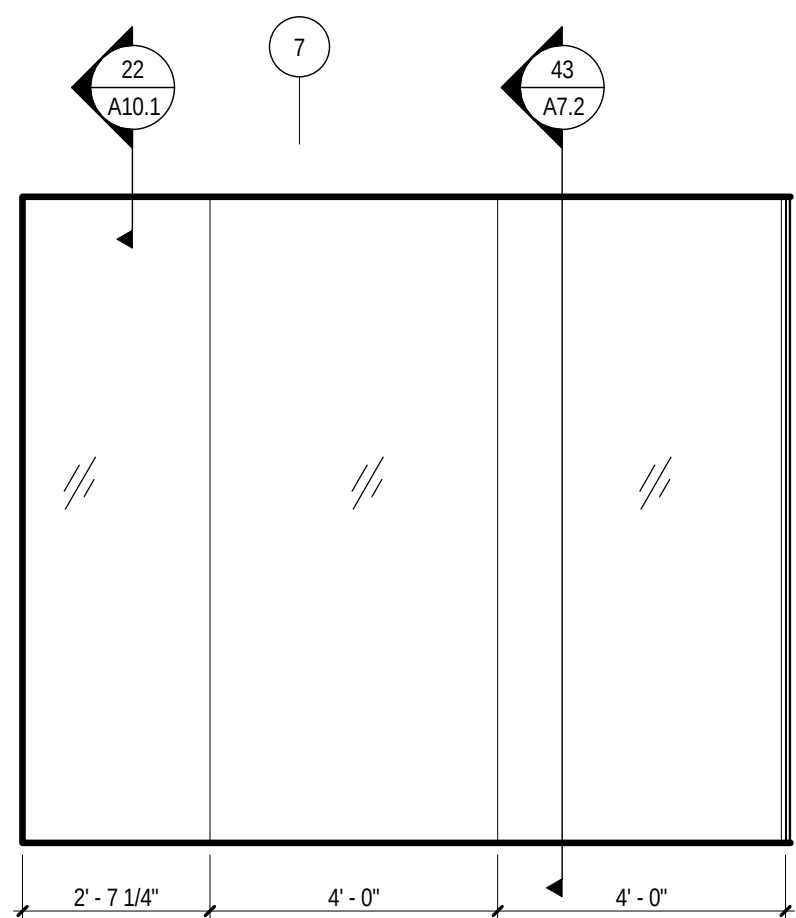
32 MEETING 270 - INTERIOR ELEVATION, SOUTH
A12.3 SCALE: 3/8" = 1'-0"



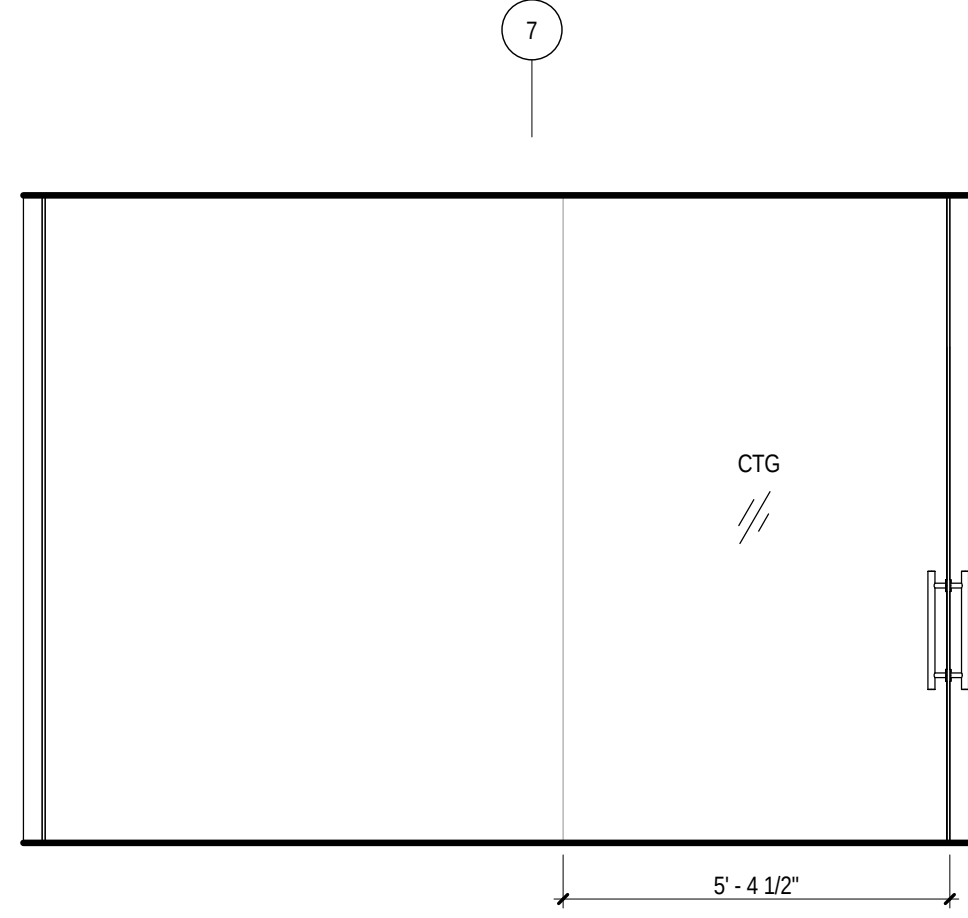
33 MEETING 270 - INTERIOR ELEVATION, WEST
A12.3 SCALE: 3/8" = 1'-0"



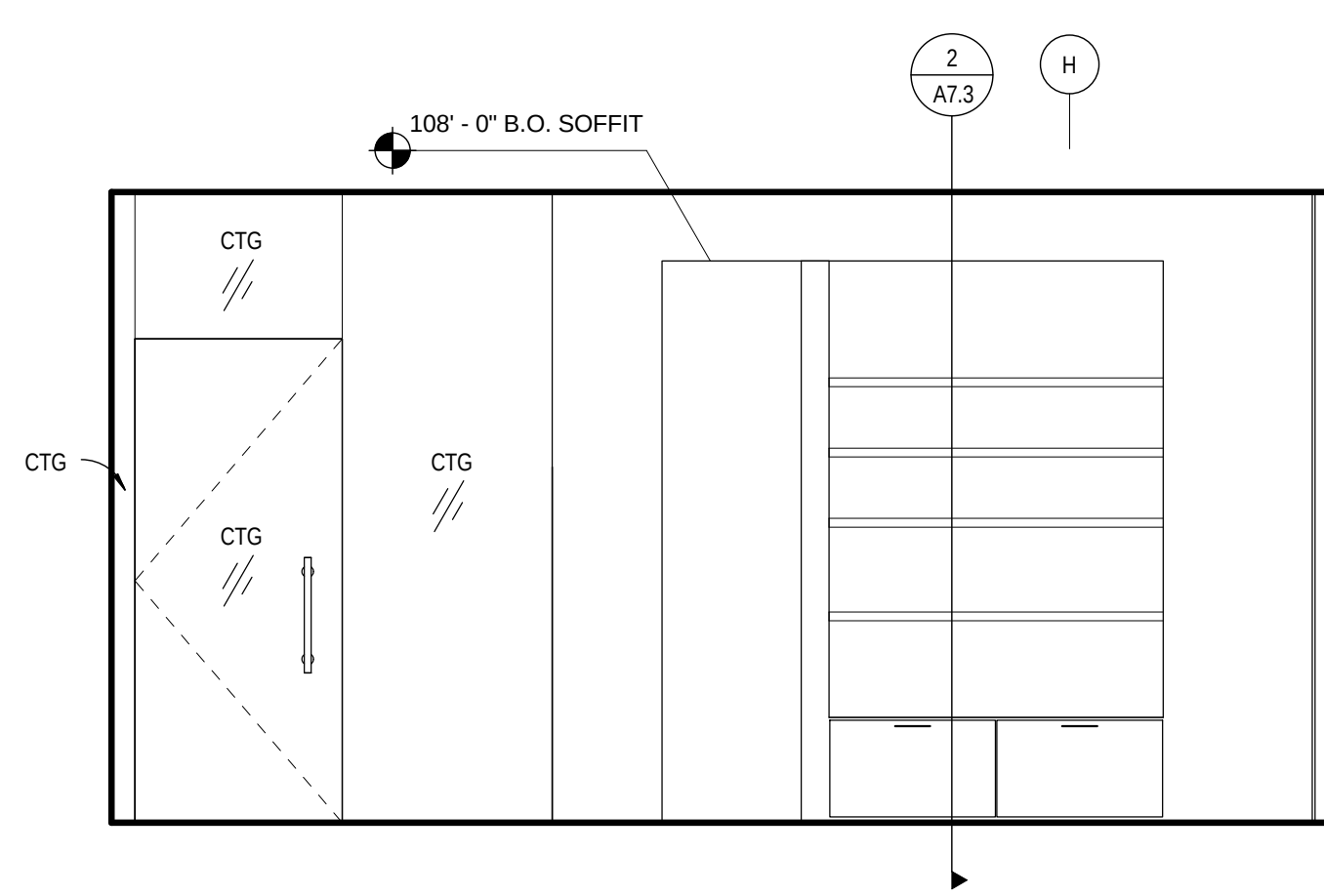
34 MEETING 271 - INTERIOR ELEVATION, EAST
A12.3 SCALE: 3/8" = 1'-0"



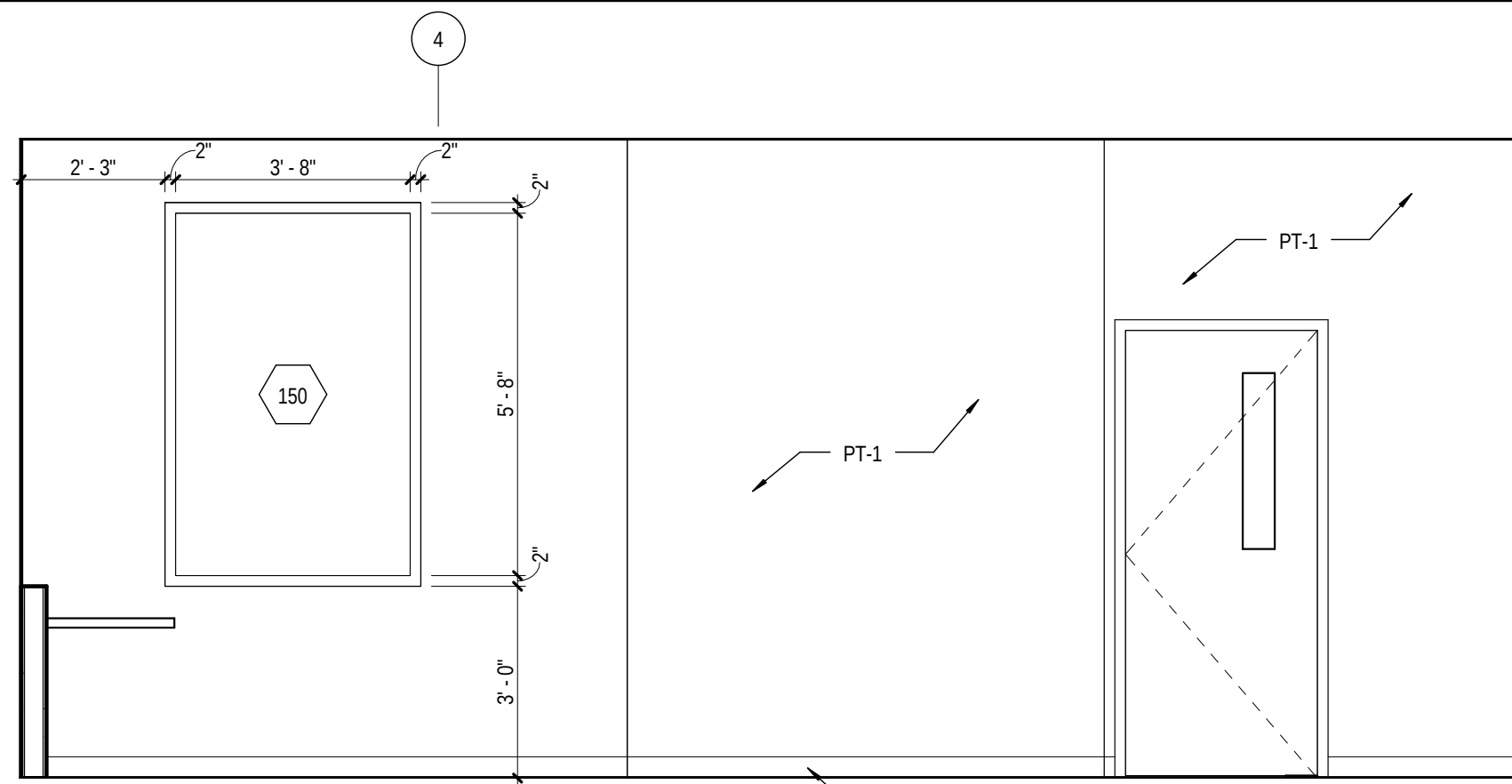
41 MEETING 271 - INTERIOR ELEVATION, NORTH
A12.3 SCALE: 3/8" = 1'-0"



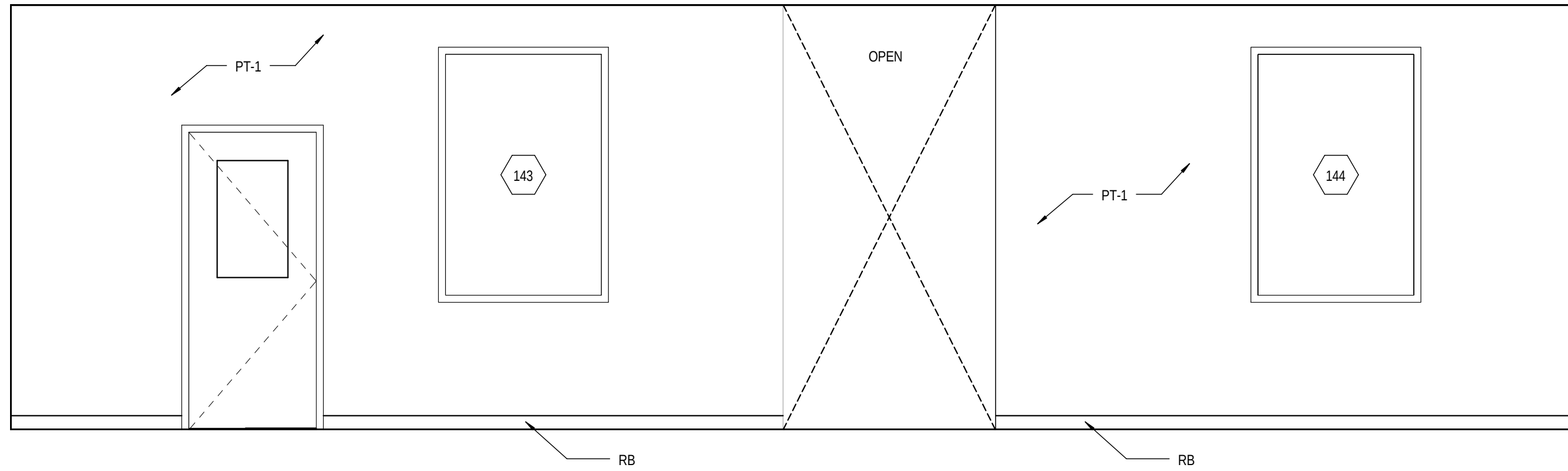
42 MEETING 271 - INTERIOR ELEVATION, SOUTH
A12.3 SCALE: 3/8" = 1'-0"



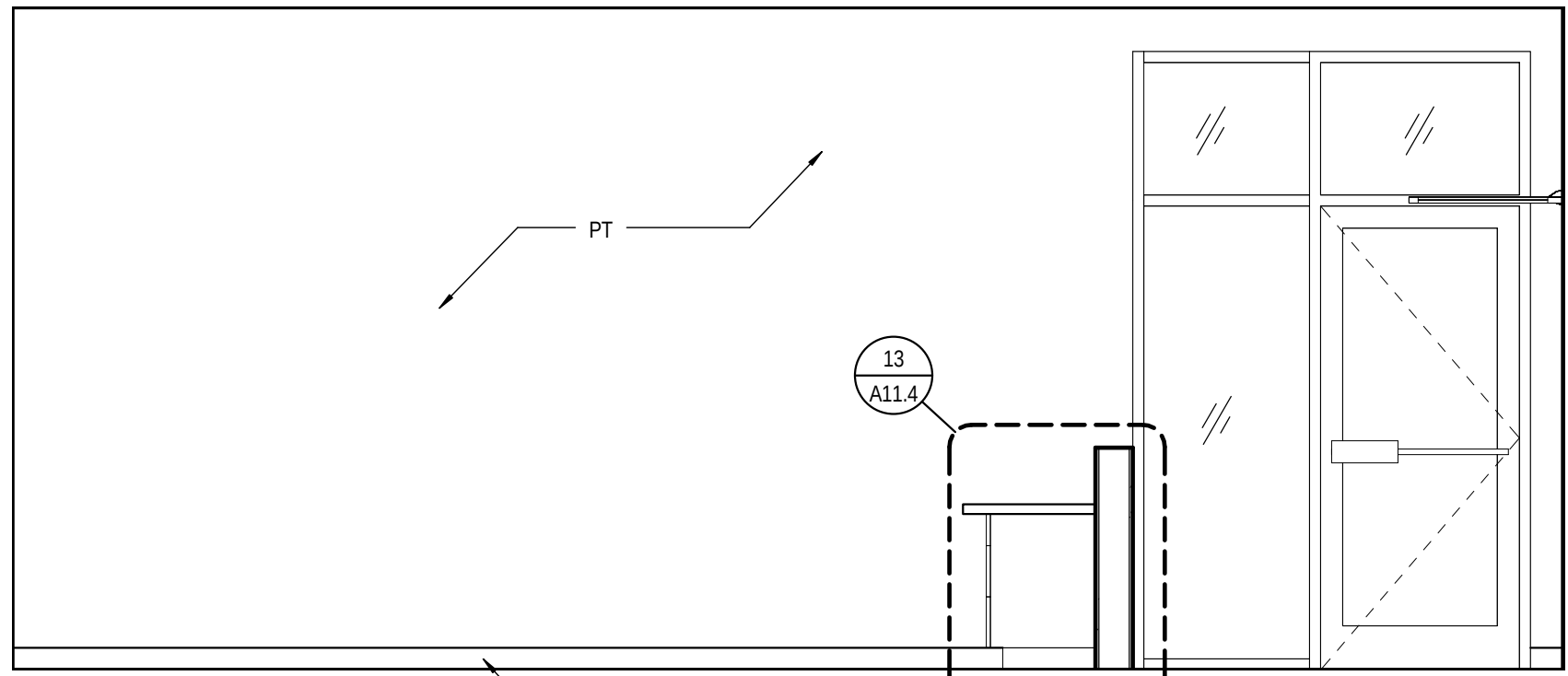
43 MEETING 271 - INTERIOR ELEVATION, WEST
A12.3 SCALE: 3/8" = 1'-0"



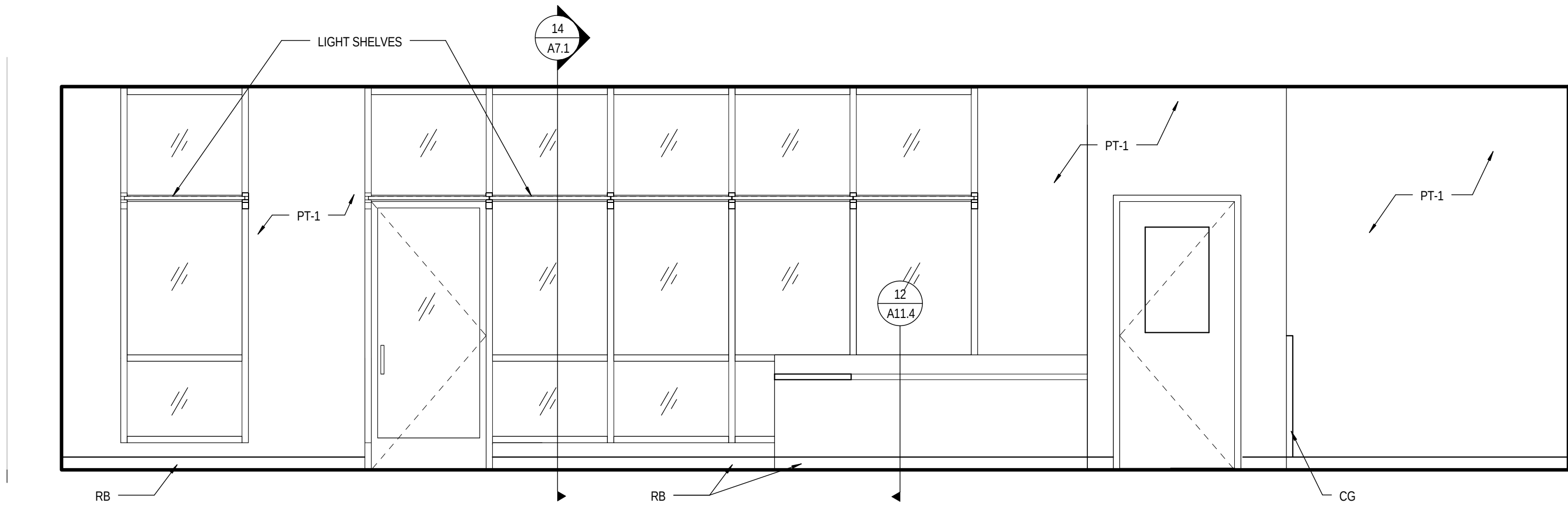
11
A12.4 280 - RECEPTION - NORTH
SCALE: 3/8" = 1'-0"



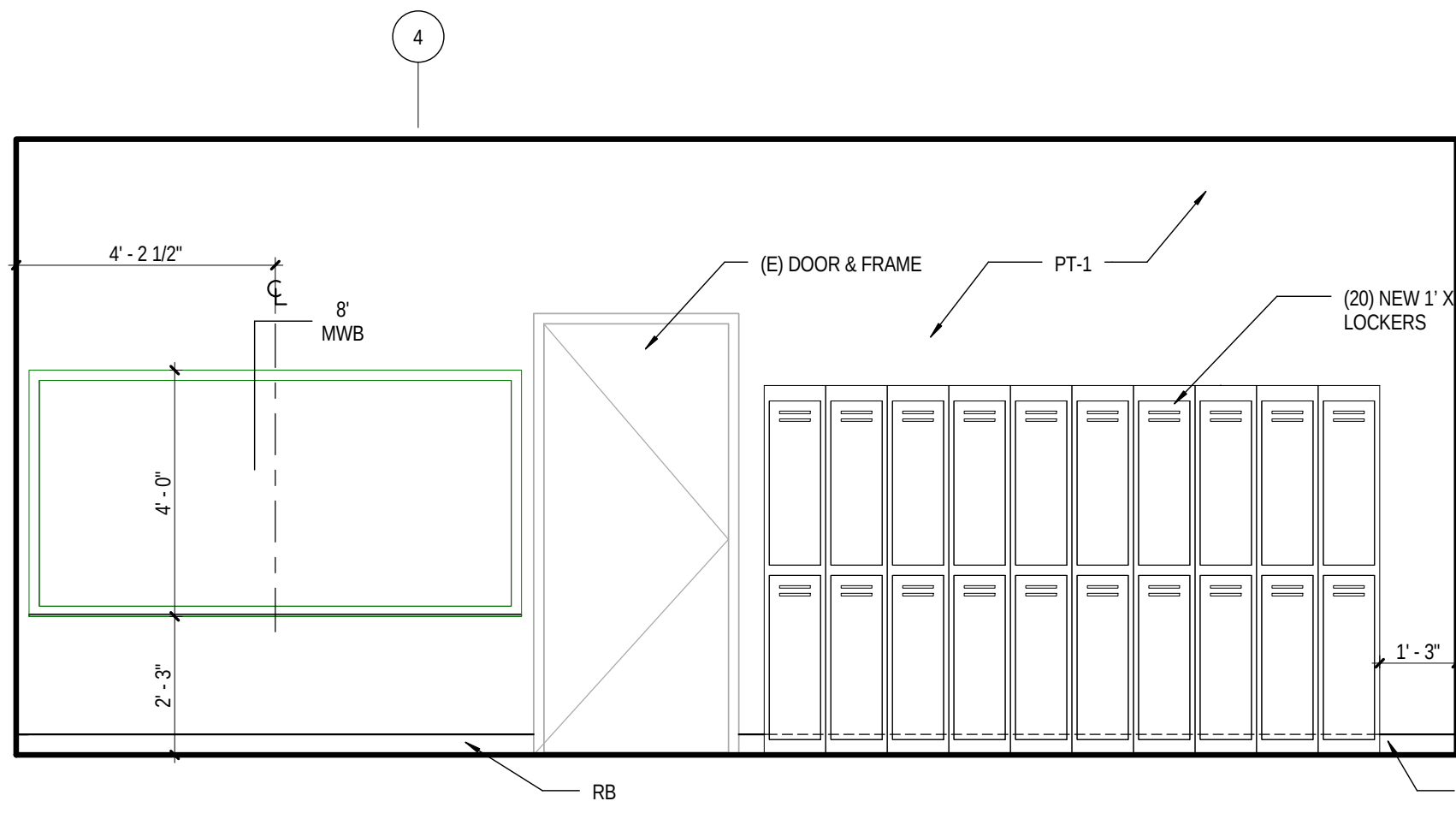
12
A12.4 280 - RECEPTION - EAST
SCALE: 3/8" = 1'-0"



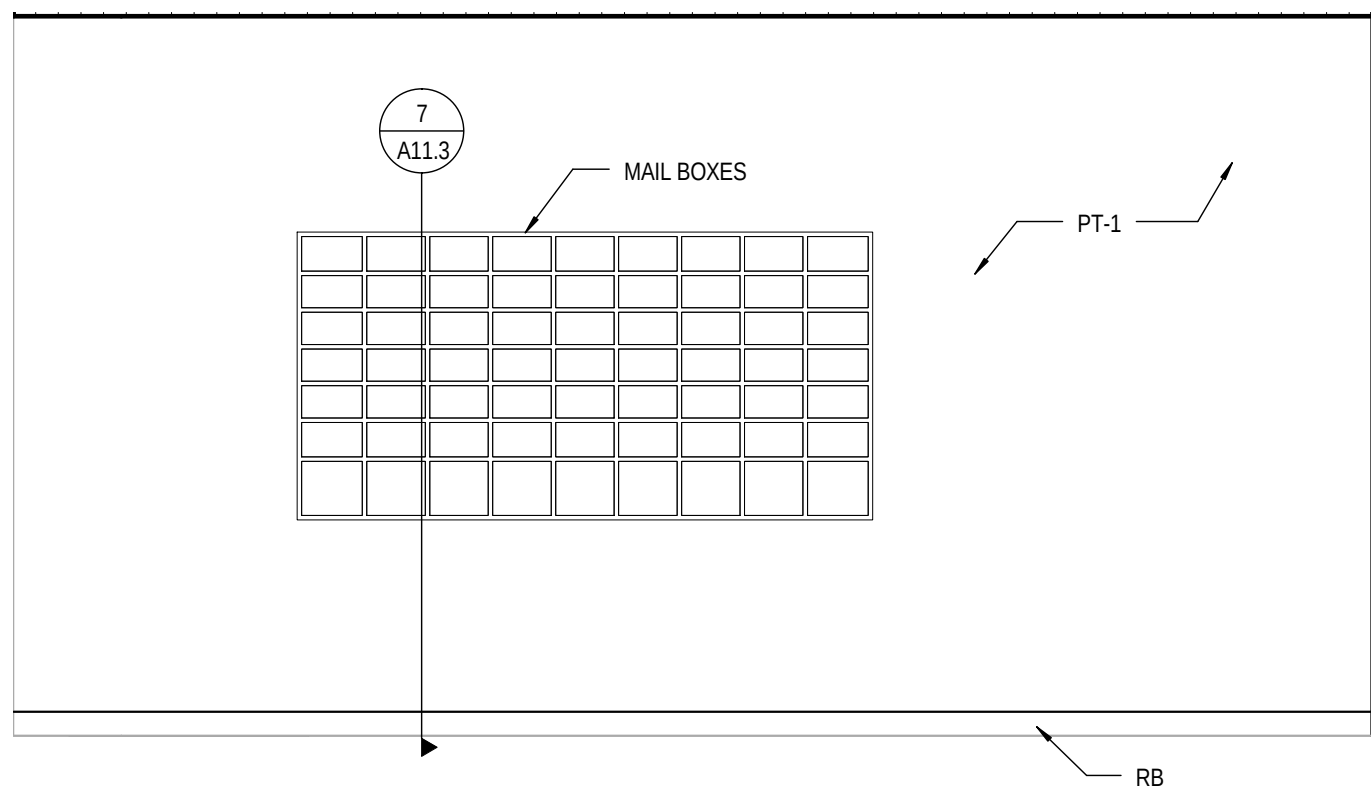
13
A12.4 280 - RECEPTION - SOUTH
SCALE: 3/8" = 1'-0"



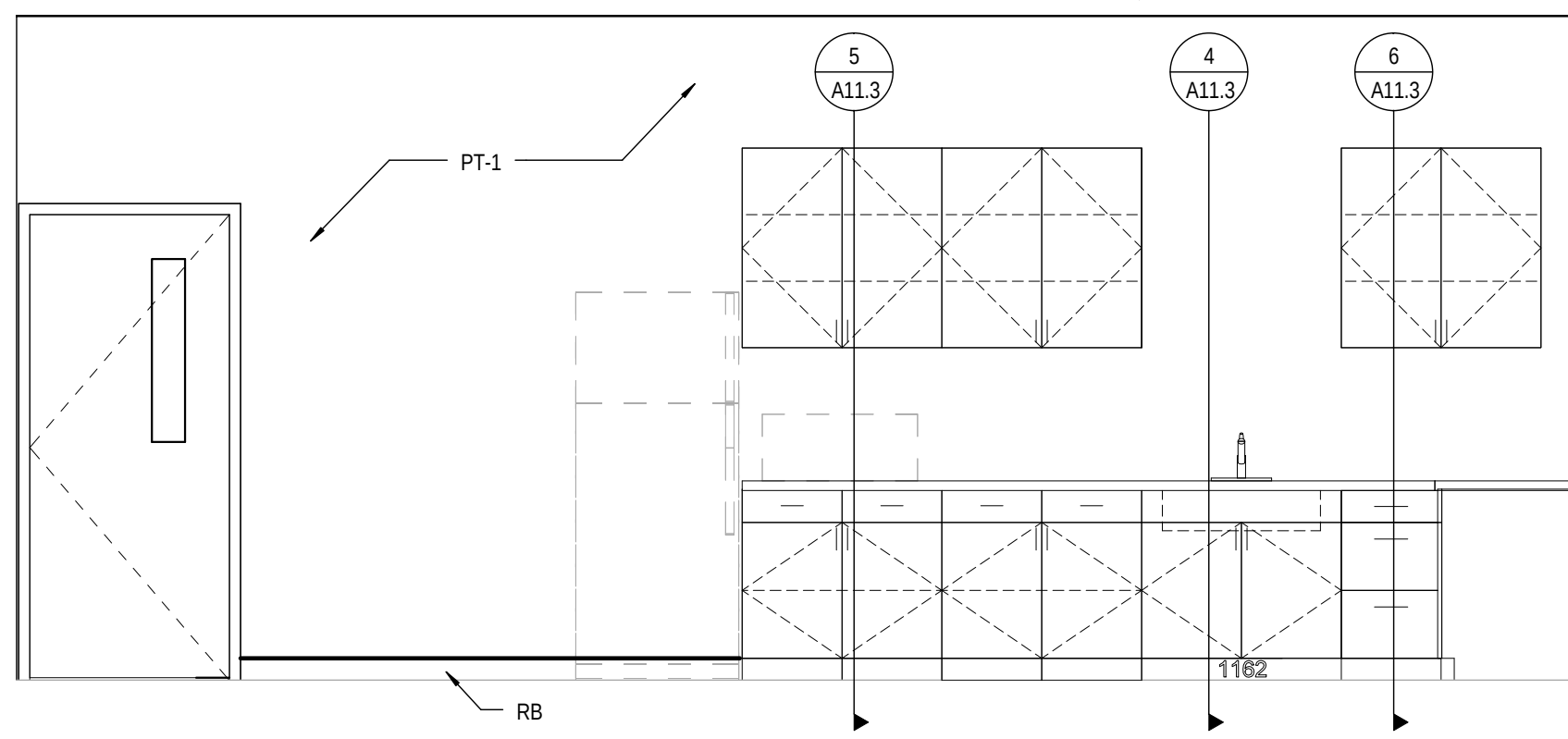
21
A12.4 280 - RECEPTION - WEST
SCALE: 3/8" = 1'-0"



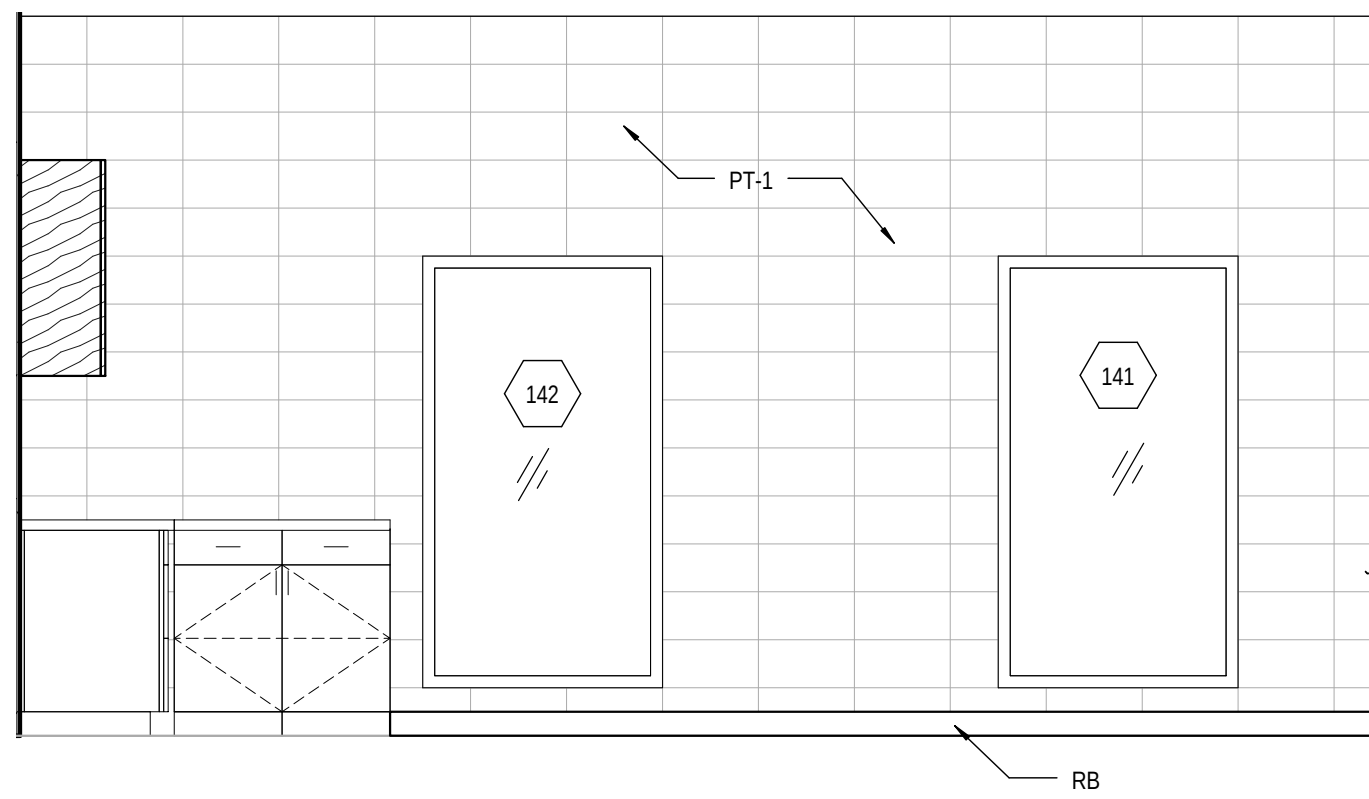
22
A12.4 274 - BREAKROOM INTERIOR ELEVATION 01
SCALE: 3/8" = 1'-0"



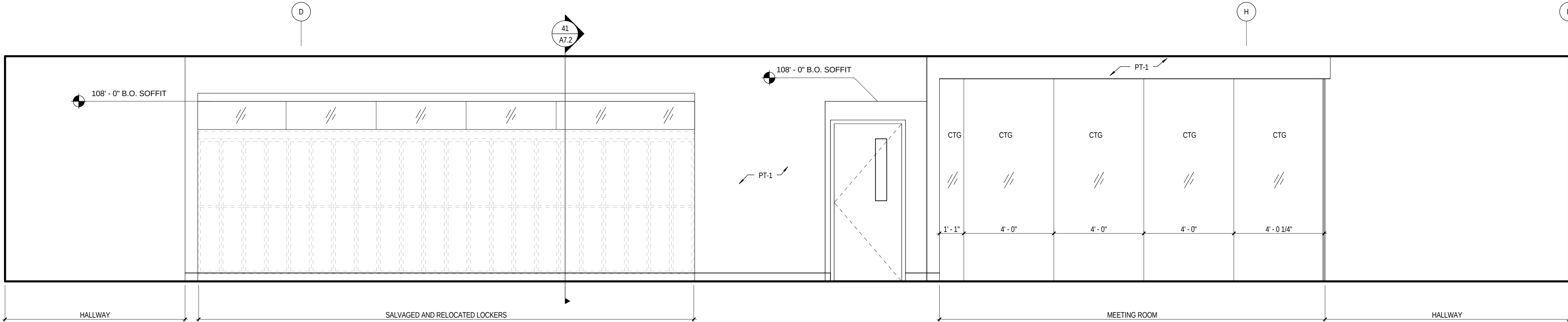
31
A12.4 274 - BREAKROOM INTERIOR ELEVATION 02
SCALE: 3/8" = 1'-0"



32
A12.4 274 - BREAKROOM INTERIOR ELEVATION 03
SCALE: 3/8" = 1'-0"

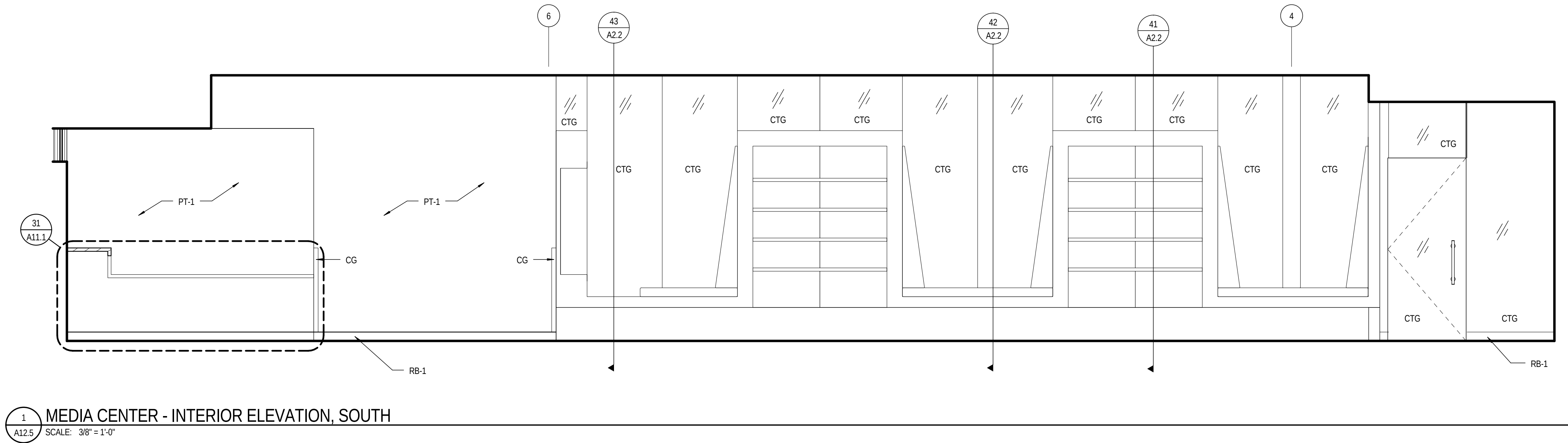


33
A12.4 274 - BREAKROOM INTERIOR ELEVATION 04
SCALE: 3/8" = 1'-0"

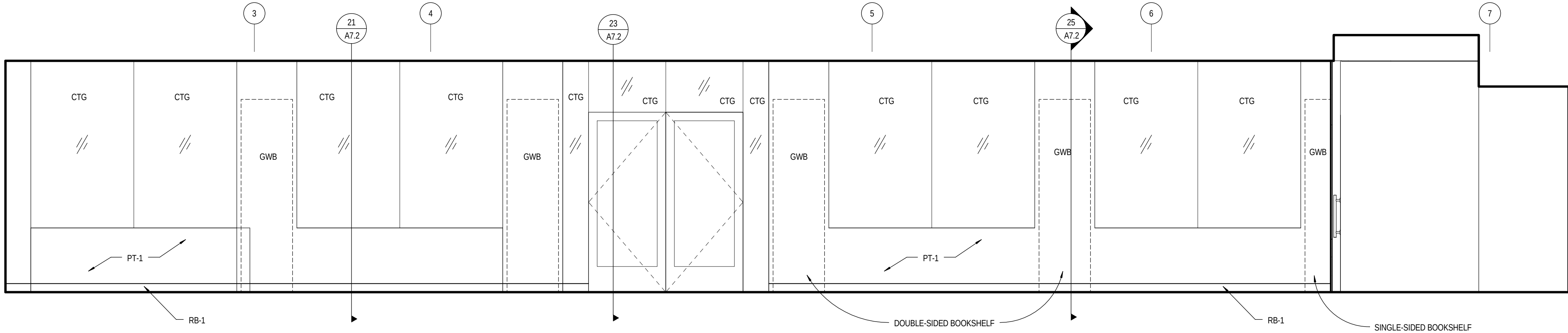


41
A12.4 MEDIA CENTER EXTERIOR ELEVATION 02
SCALE: 3/8" = 1'-0"

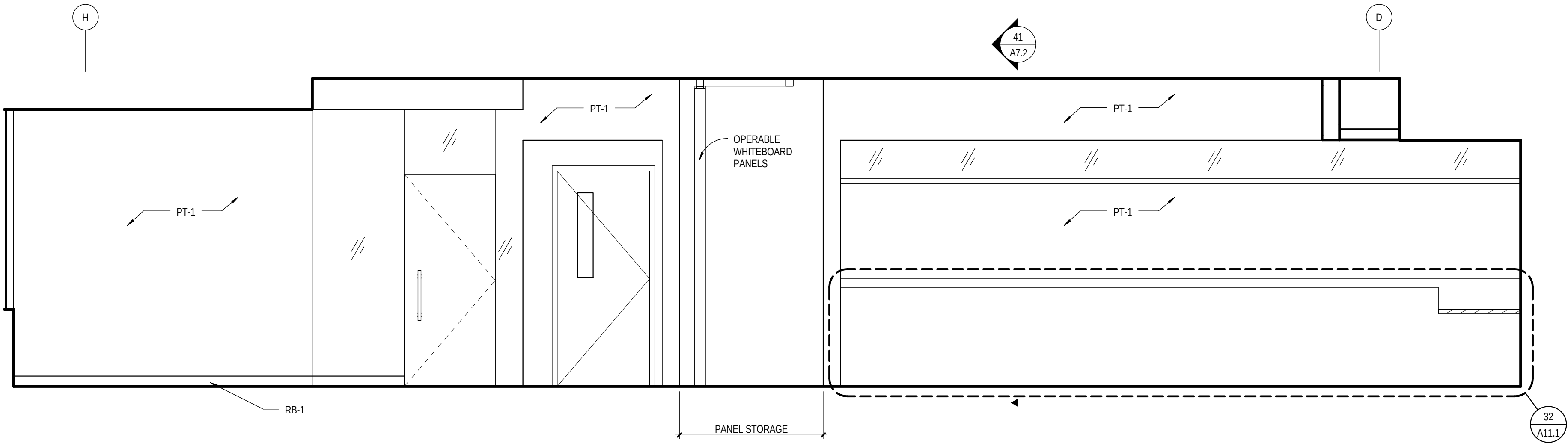
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1 MEDIA CENTER - INTERIOR ELEVATION, SOUTH
SCALE: 3/8" = 1'-0"



2 MEDIA CENTER - INTERIOR ELEVATION, NORTH
SCALE: 3/8" = 1'-0"



11 MEDIA CENTER - INTERIOR ELEVATION, EAST
SCALE: 3/8" = 1'-0"



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A12.5

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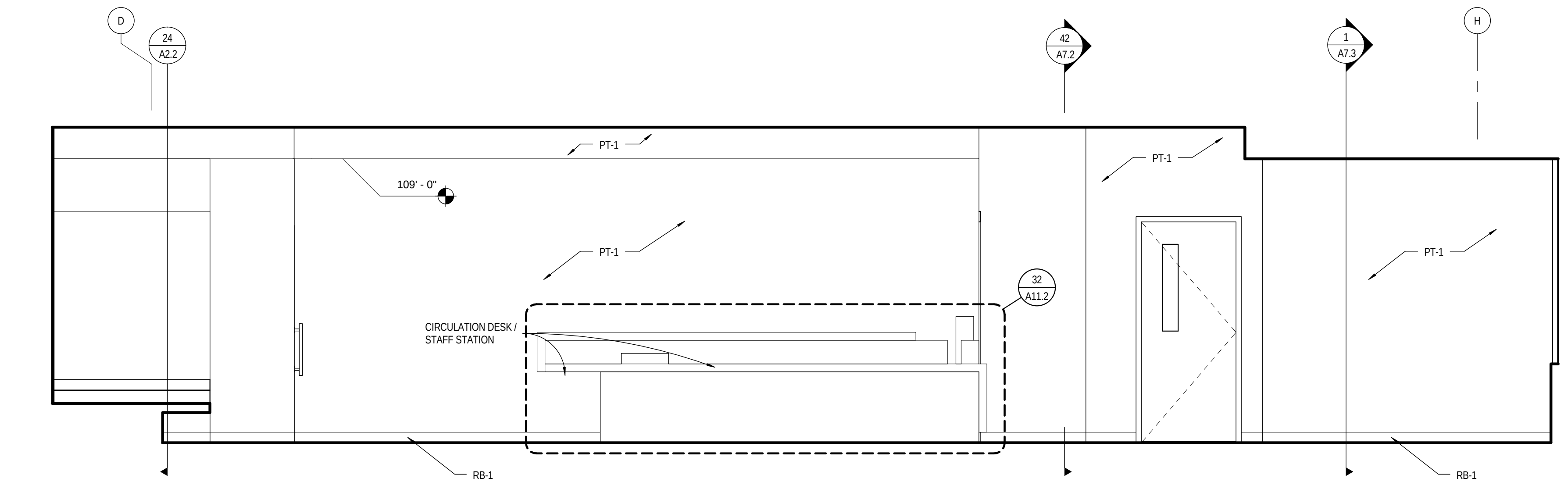
INTERIOR ELEVATIONS
FERN RIDGE MIDDLE SCHOOL
INTERIOR ALTERATIONS

Project Status

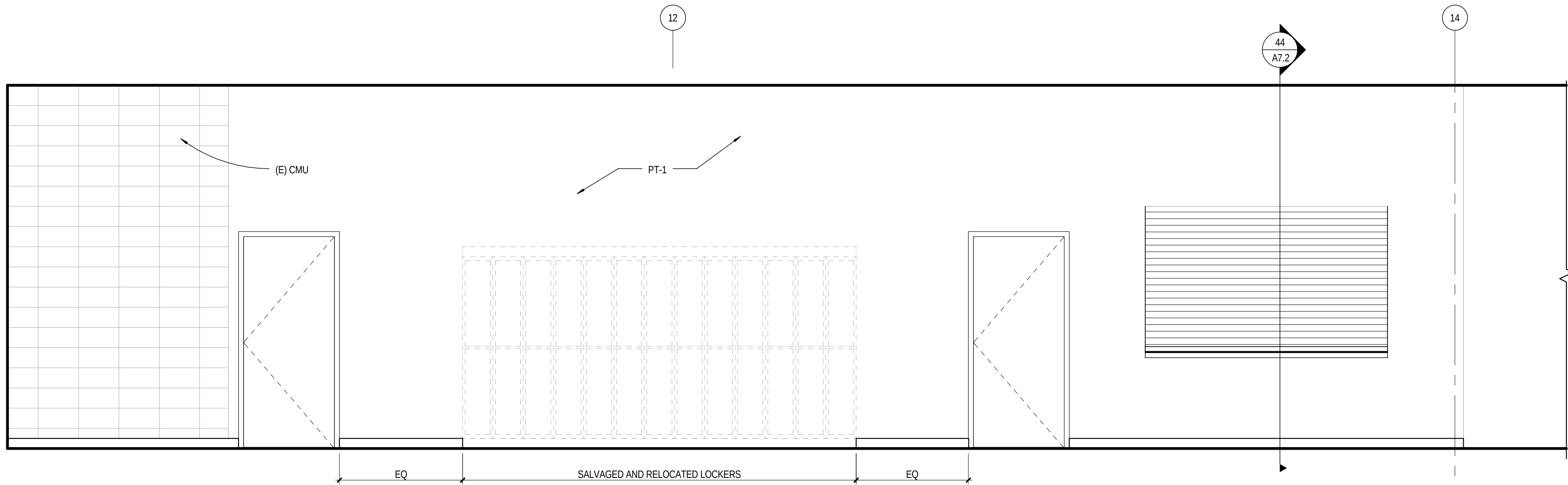
PERMIT/BID ISSUE



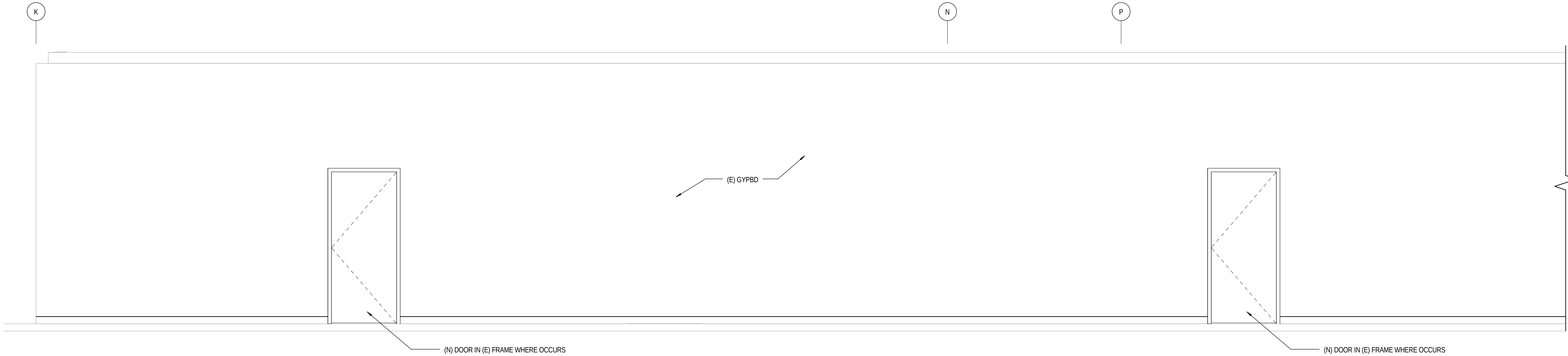
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11 MEDIA CENTER - INTERIOR ELEVATION, WEST
A12.6 SCALE: 3/8" = 1'-0"

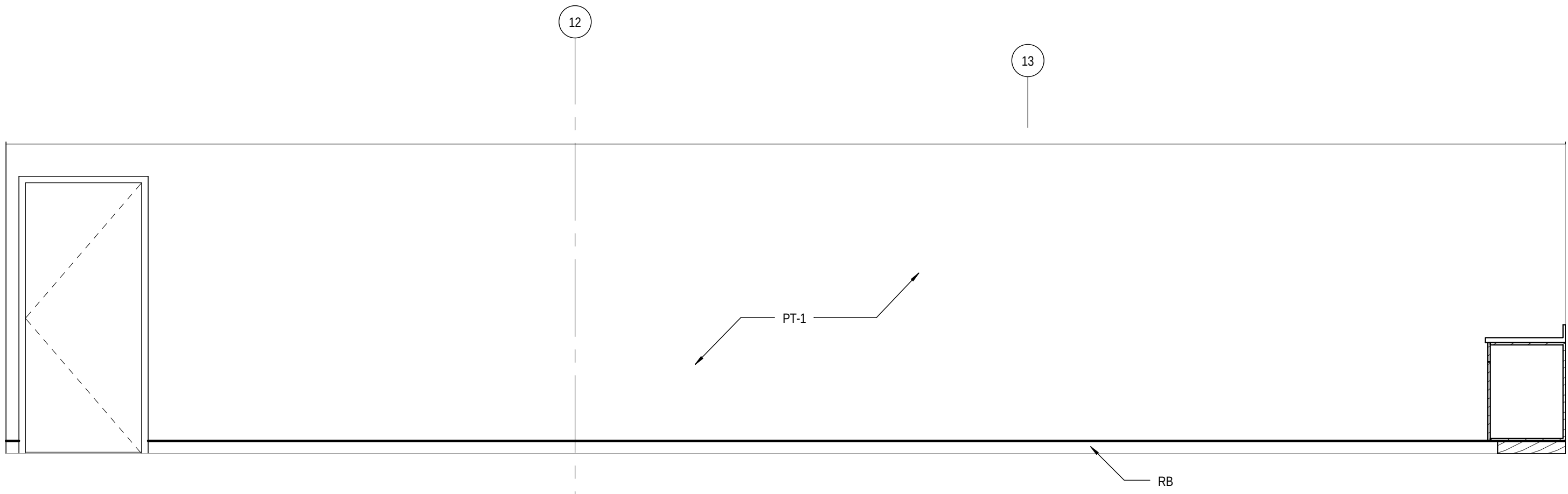


21 STUDENT STORE 287 - INTERIOR ELEVATION, HALLWAY SIDE
A12.6 SCALE: 3/8" = 1'-0"

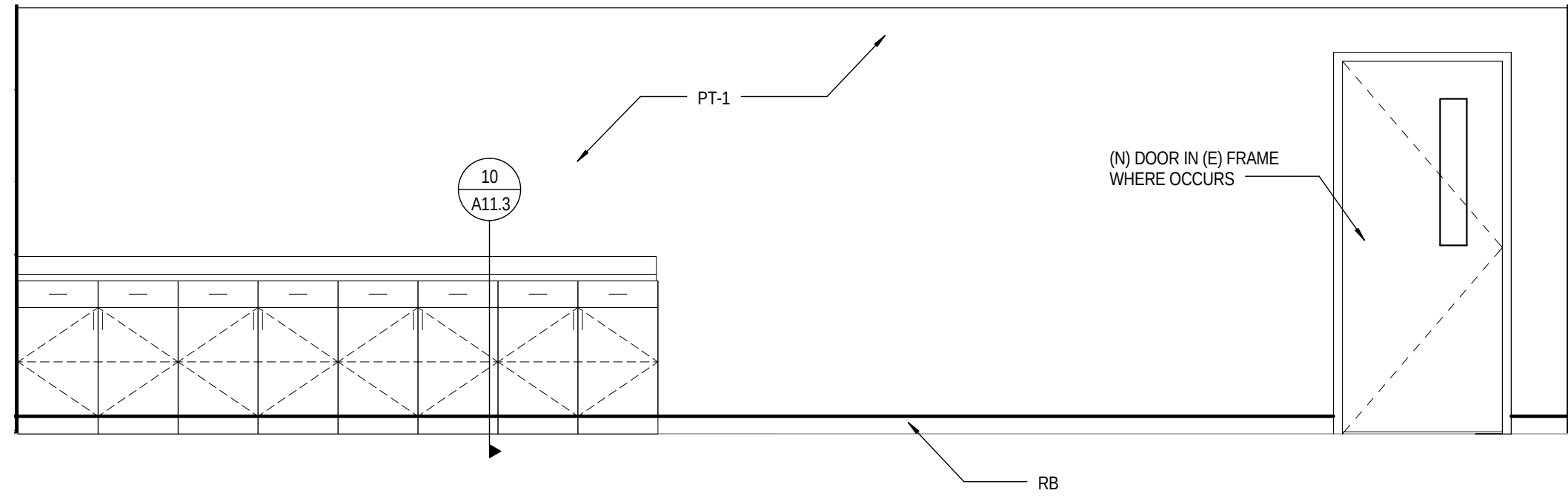


31 TECH LAB 286 / COMPUTER 289 - INTERIOR ELEVATION, HALLWAY SIDE
A12.6 SCALE: 3/8" = 1'-0"

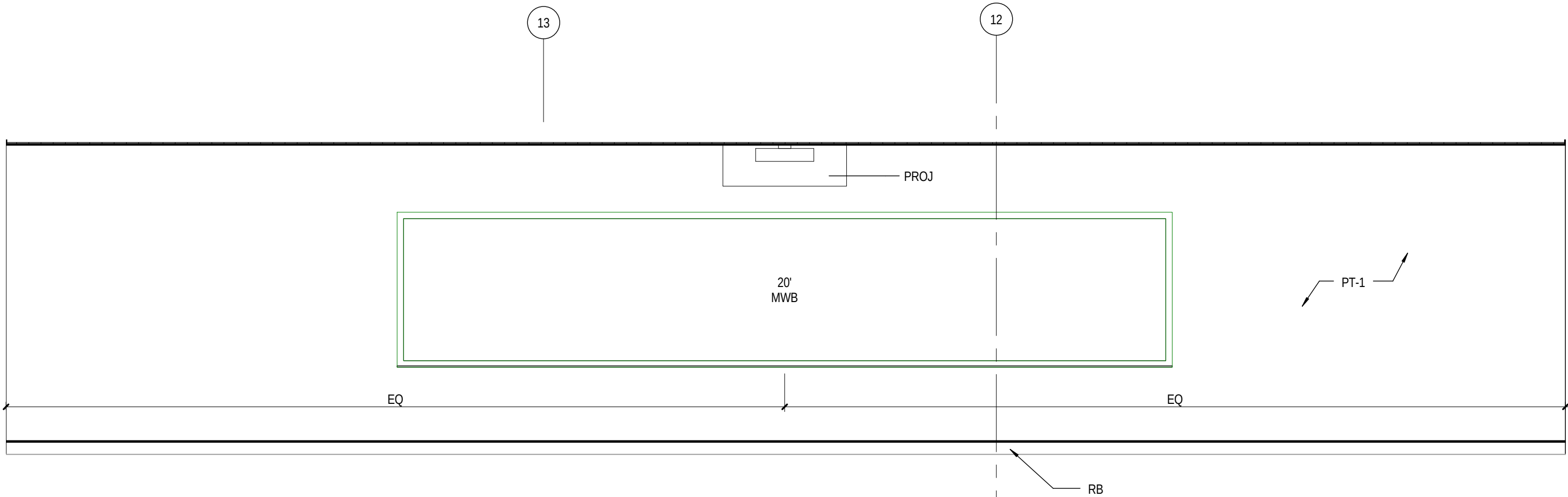
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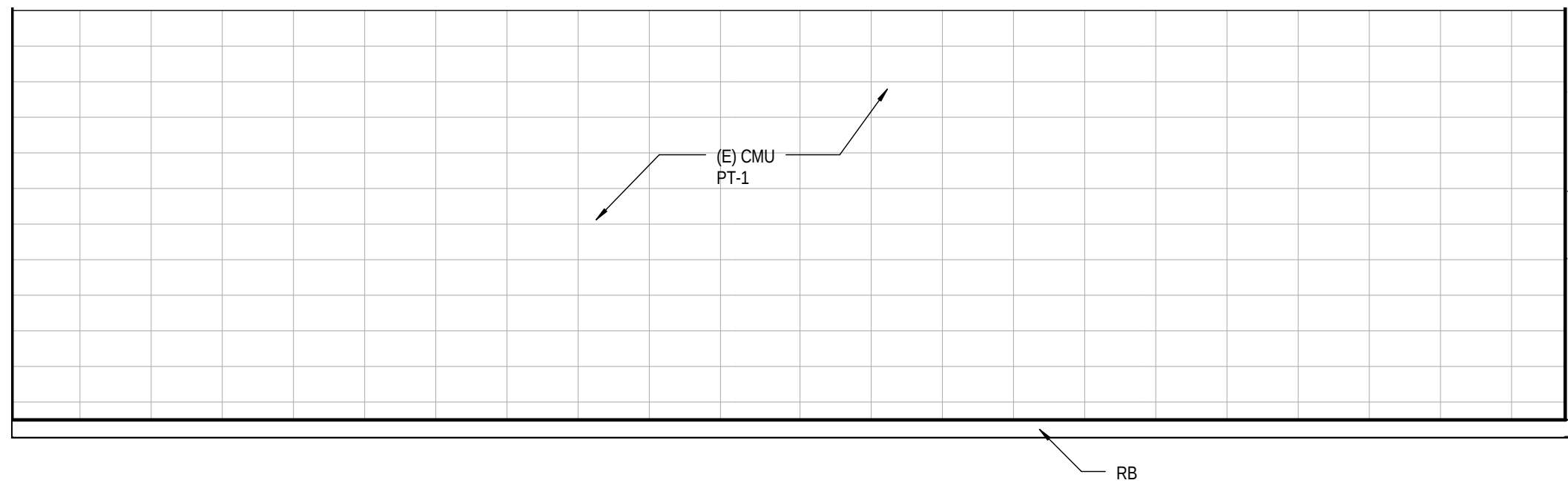
11 TECH LAB 286 - INTERIOR ELEVATION, NORTH
A12.7 SCALE: 3/8" = 1'-0"



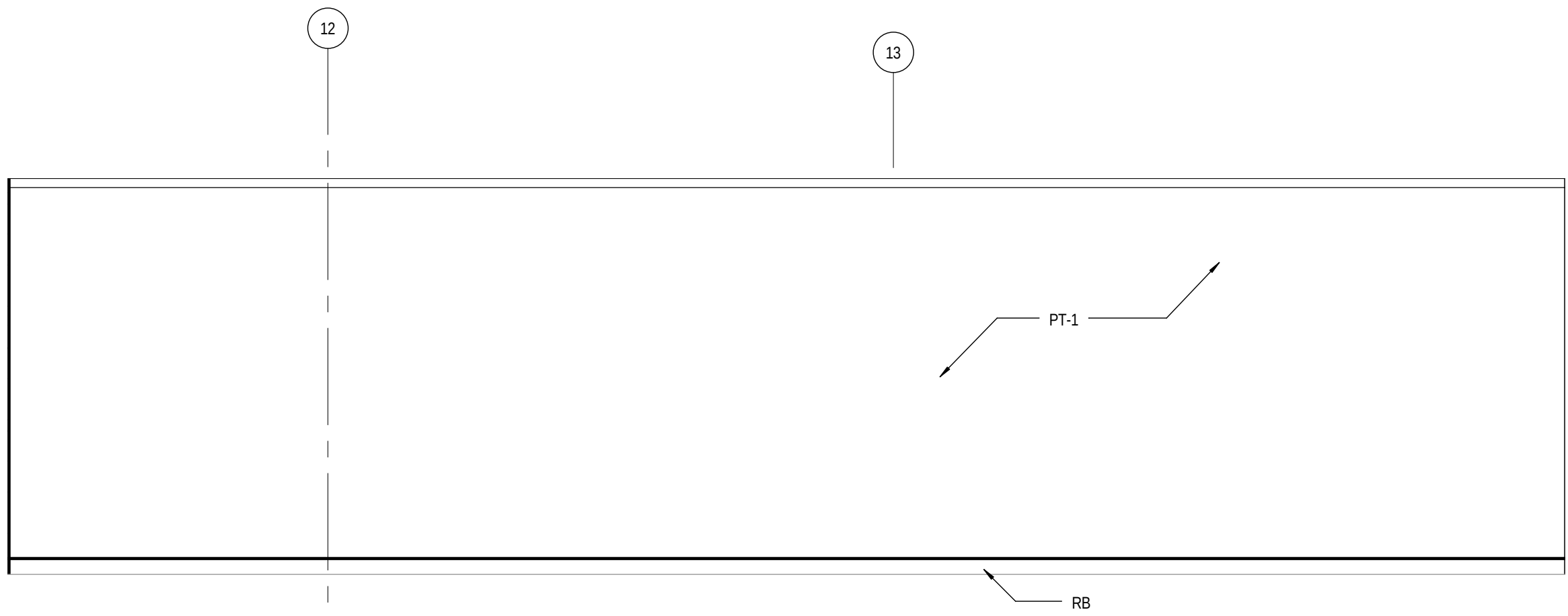
12 TECH LAB 286 - INTERIOR ELEVATION, EAST
A12.7 SCALE: 3/8" = 1'-0"



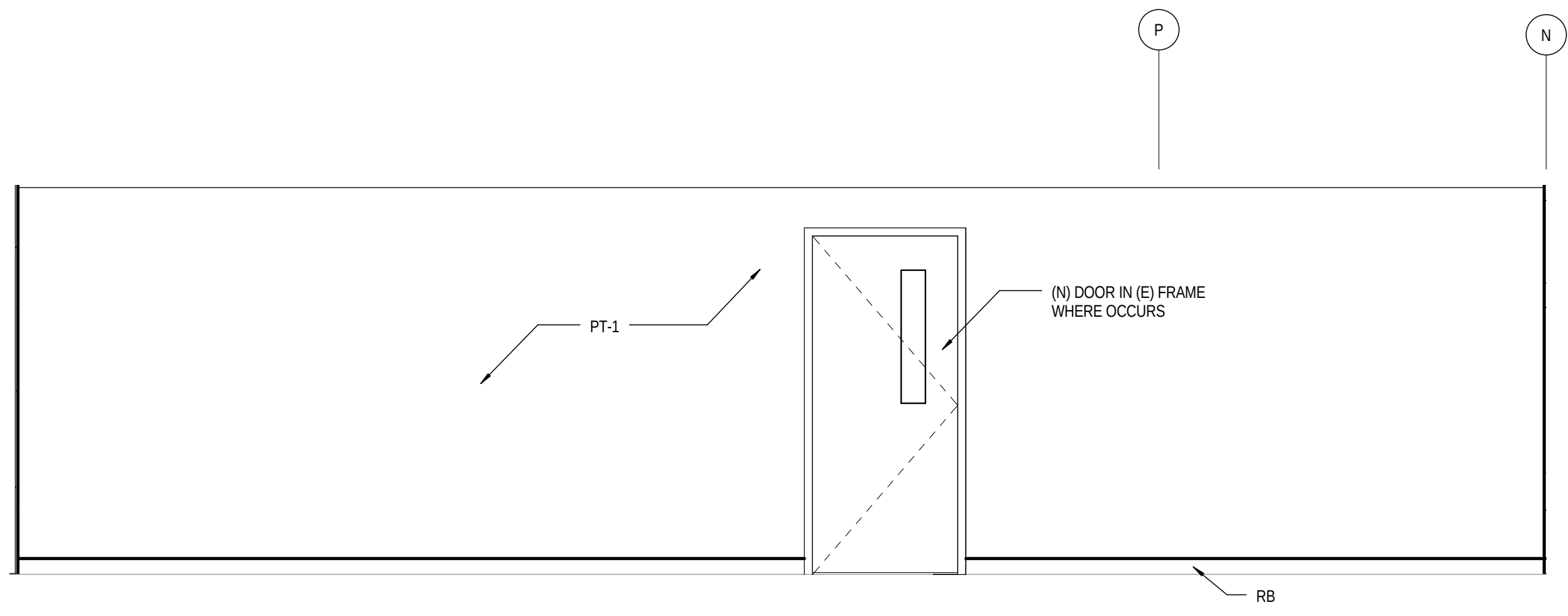
21 TECH LAB 286 - INTERIOR ELEVATION, SOUTH
A12.7 SCALE: 3/8" = 1'-0"



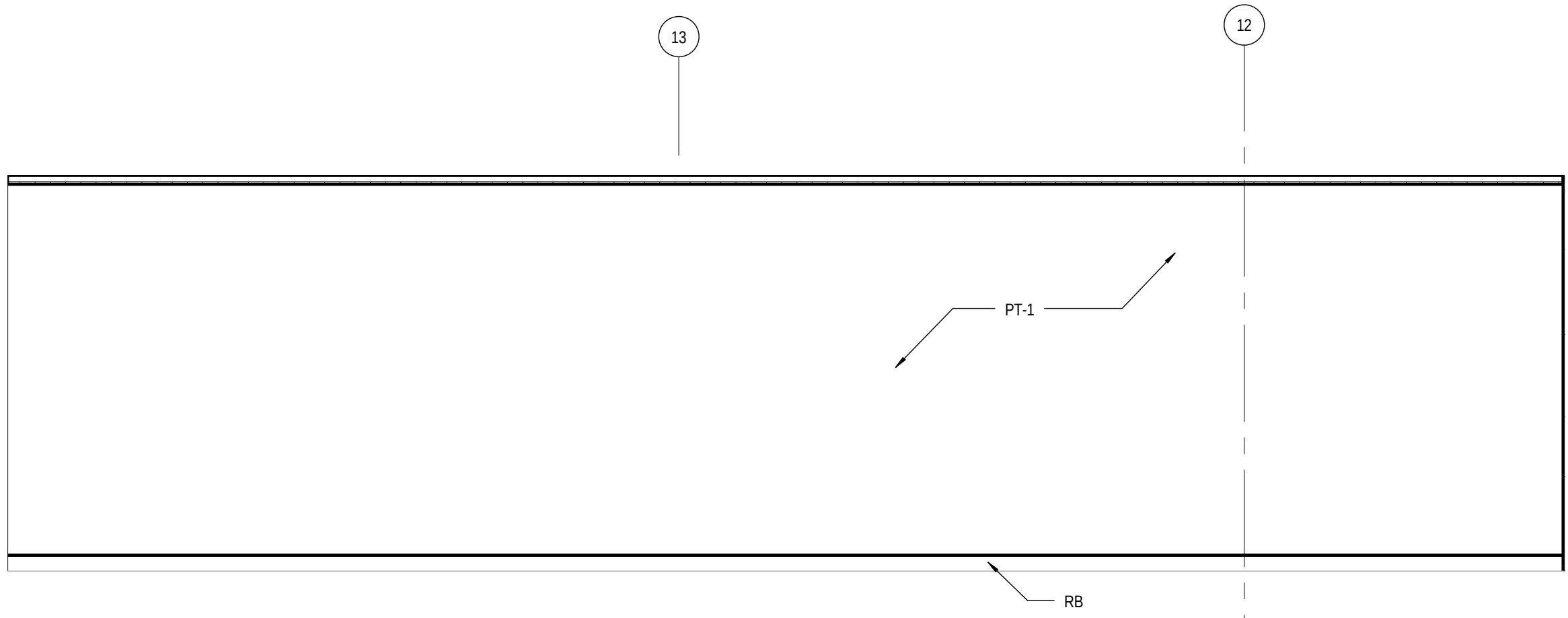
22 TECH LAB 286 - INTERIOR ELEVATION, WEST
A12.7 SCALE: 3/8" = 1'-0"



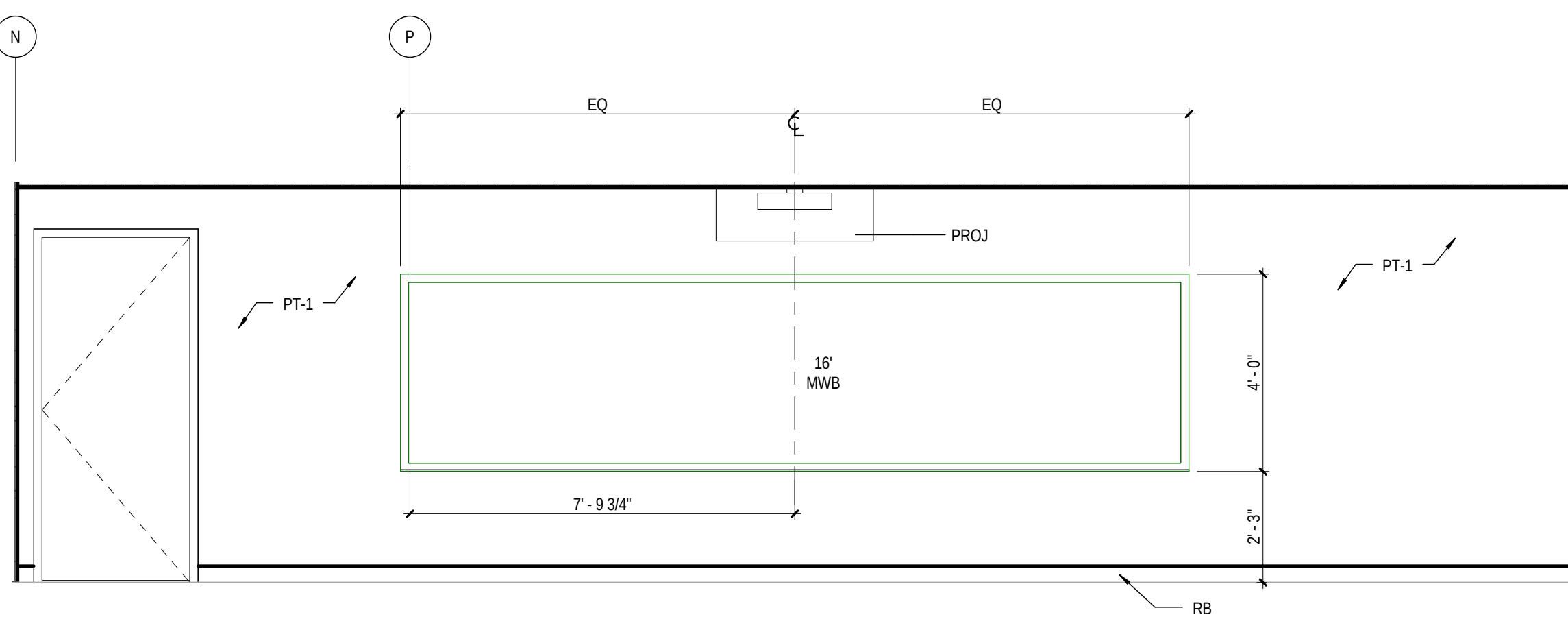
31 COMPUTER 289 - INTERIOR ELEVATION, NORTH
A12.7 SCALE: 3/8" = 1'-0"



32 COMPUTER 289 - INTERIOR ELEVATION, EAST
A12.7 SCALE: 3/8" = 1'-0"

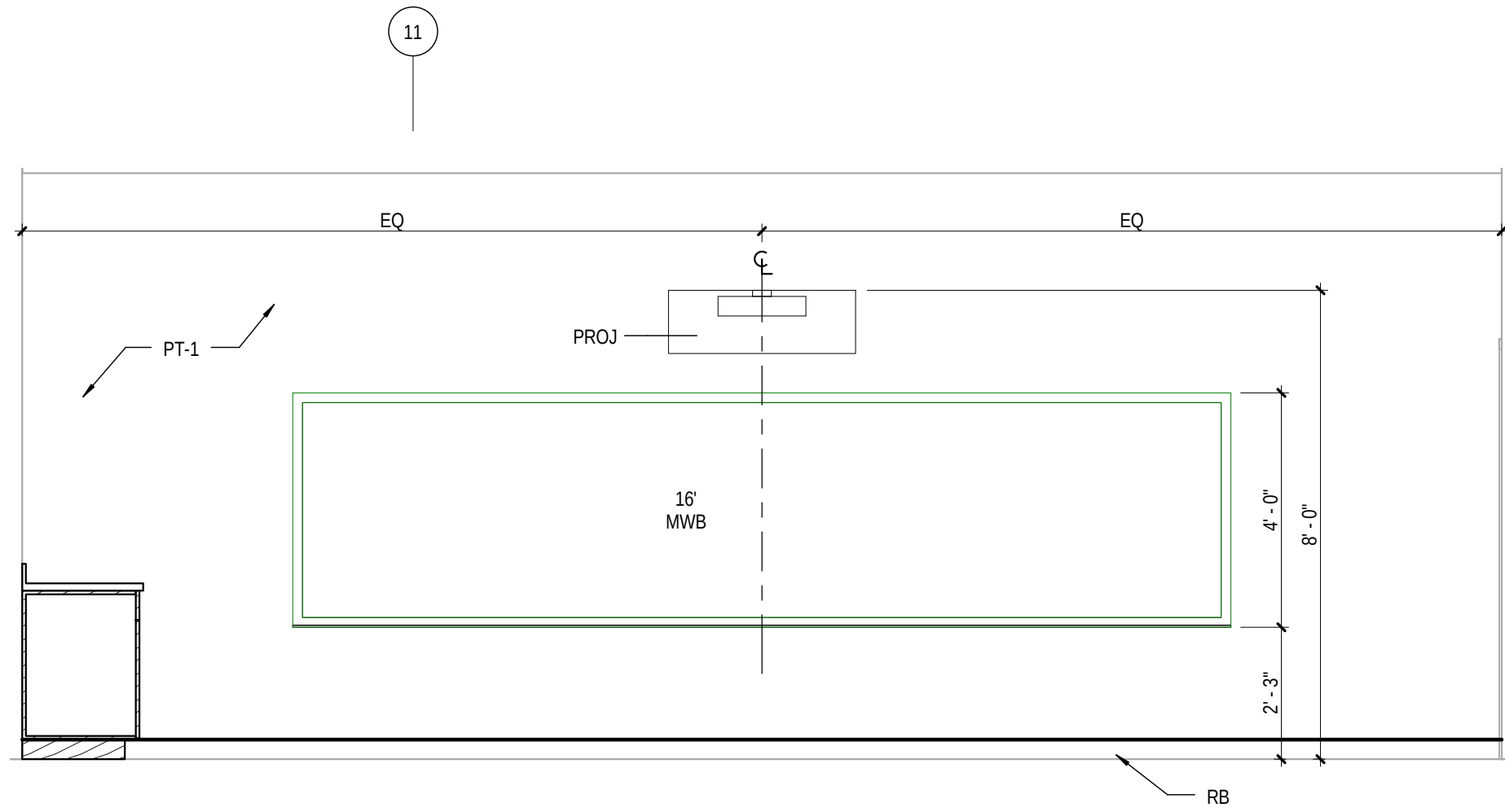


41 COMPUTER 289 - INTERIOR ELEVATION, SOUTH
A12.7 SCALE: 3/8" = 1'-0"

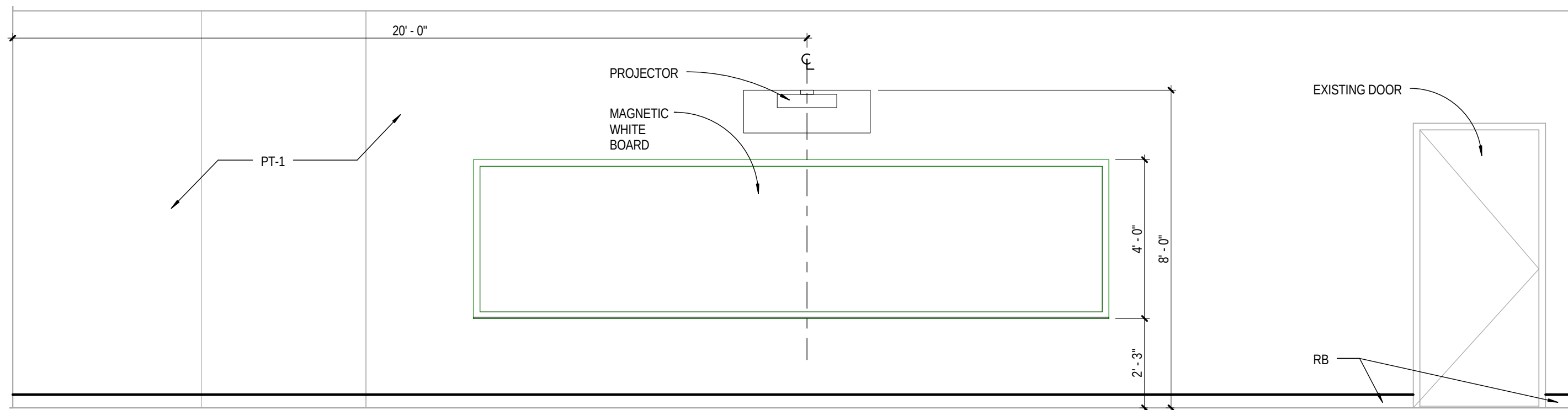


42 COMPUTER 289 - INTERIOR ELEVATION, WEST
A12.7 SCALE: 3/8" = 1'-0"

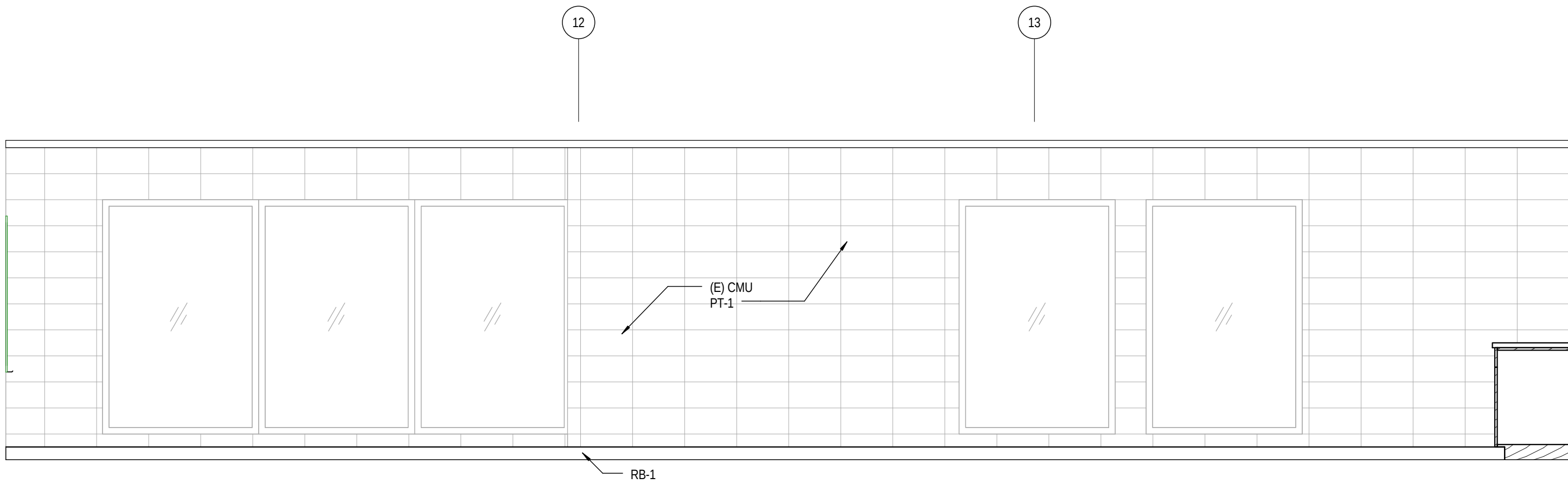
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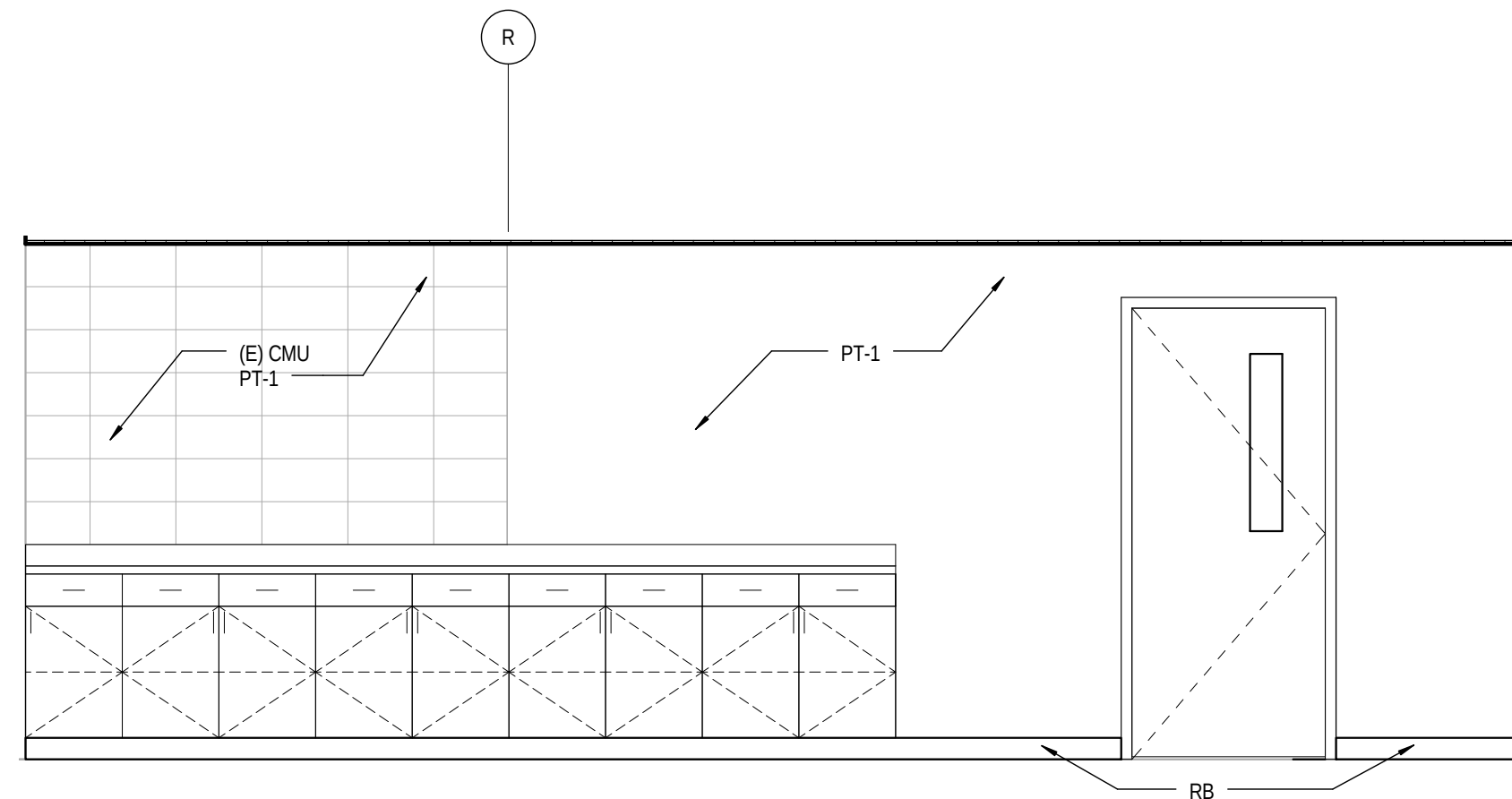
11 CLASSROOM 296 - INTERIOR ELEVATION, SOUTH
A12.8 SCALE: 3/8" = 1'-0"



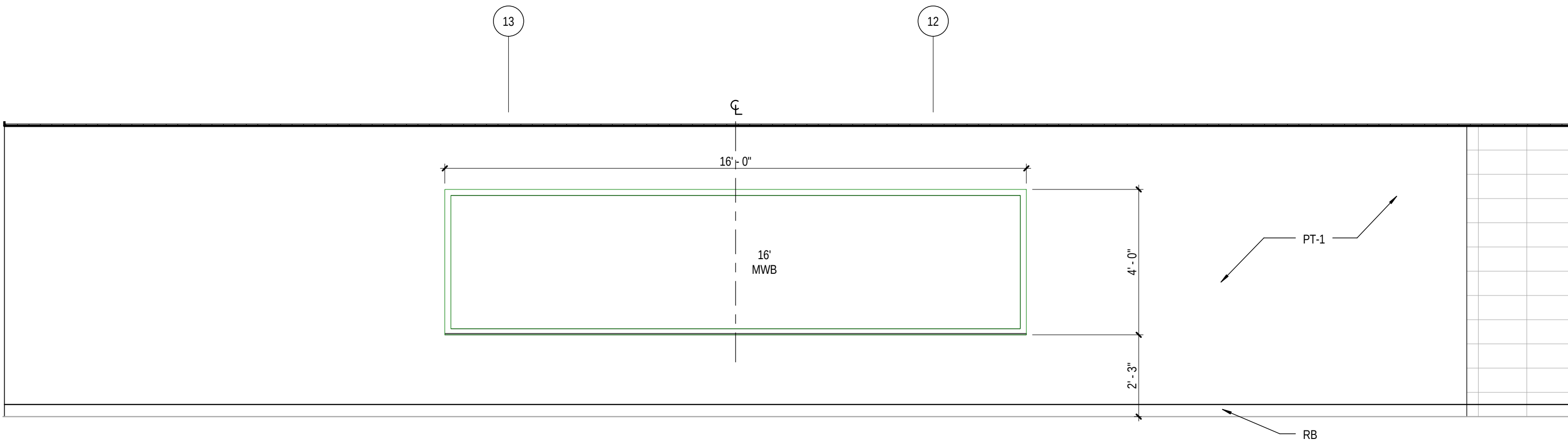
12 CLASSROOM 297 - INTERIOR ELEVATION, WEST
A12.8 SCALE: 3/8" = 1'-0"



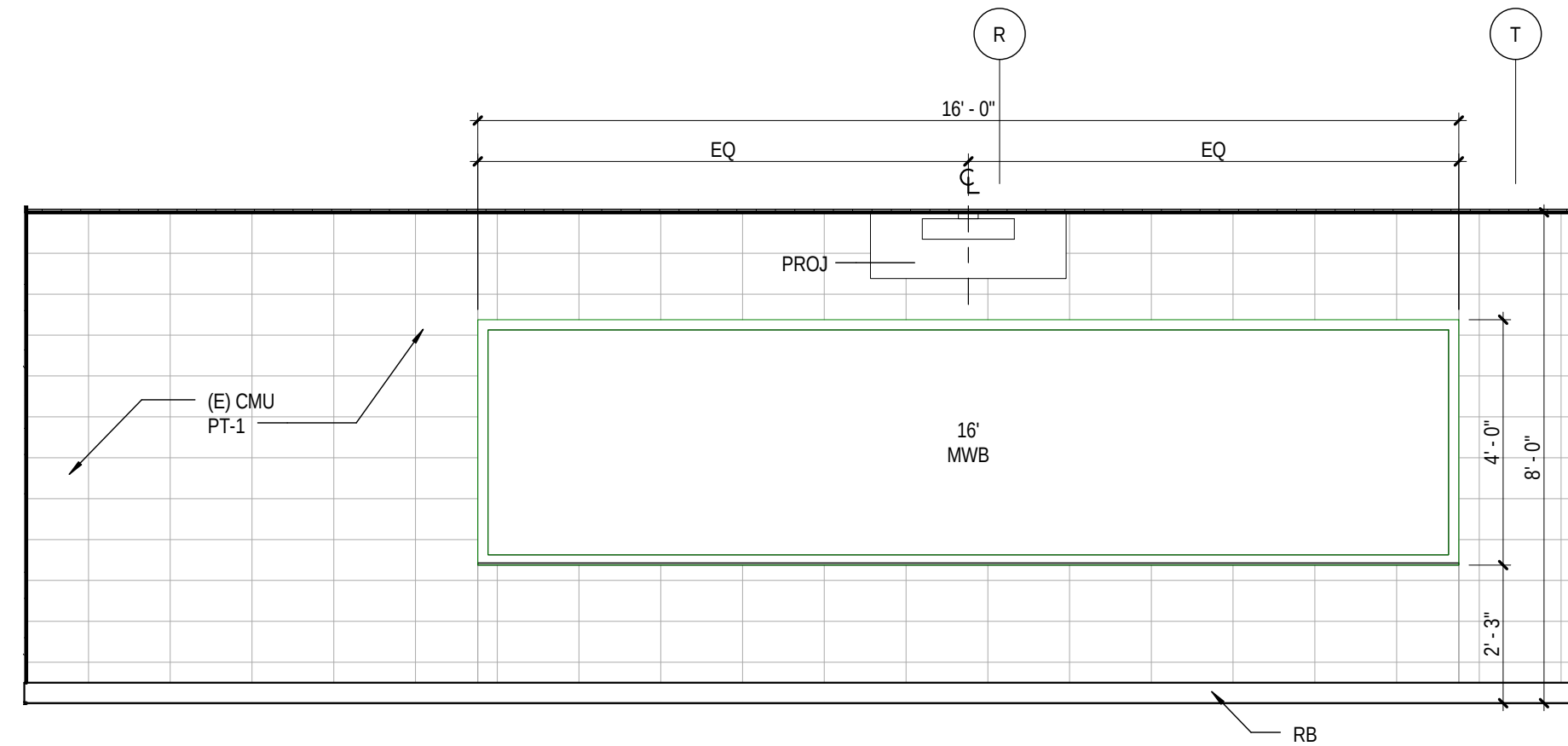
21 CLASSROOM 290 - INTERIOR ELEVATION, NORTH
A12.8 SCALE: 3/8" = 1'-0"



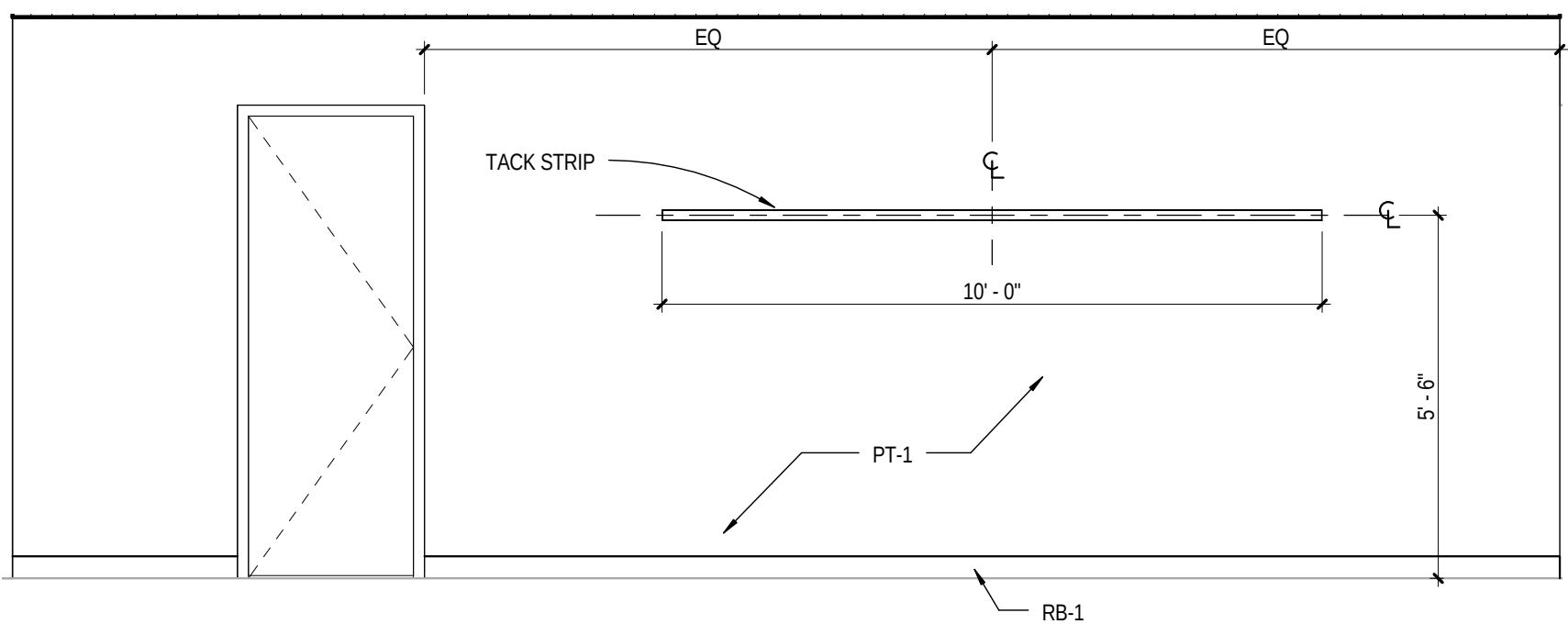
22 CLASSROOM 290 - INTERIOR ELEVATION, EAST
A12.8 SCALE: 3/8" = 1'-0"



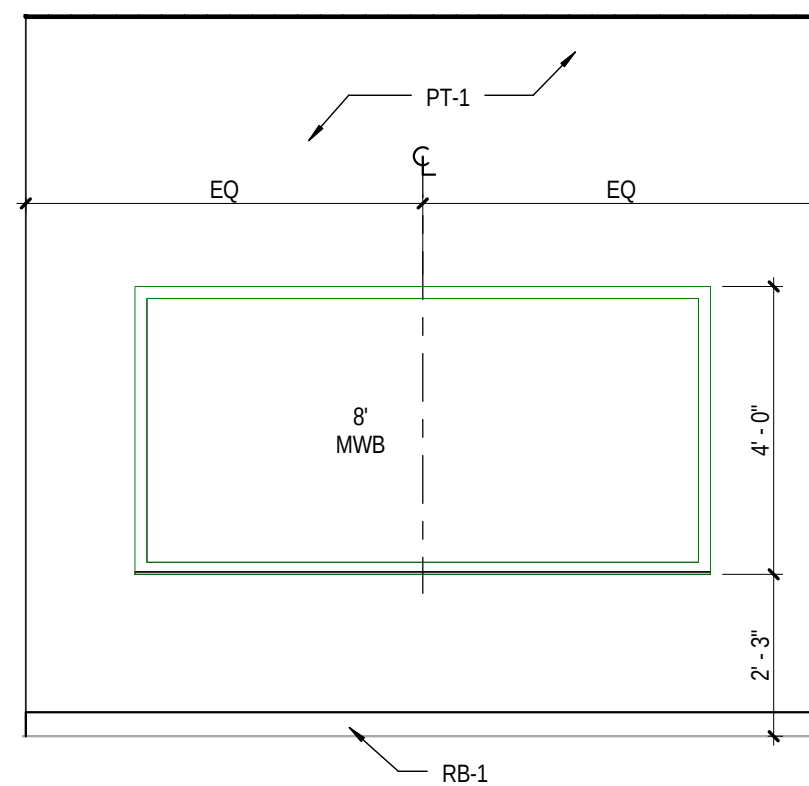
31 CLASSROOM 290 - INTERIOR ELEVATION, SOUTH
A12.8 SCALE: 3/8" = 1'-0"



32 CLASSROOM 290 - INTERIOR ELEVATION, WEST
A12.8 SCALE: 3/8" = 1'-0"

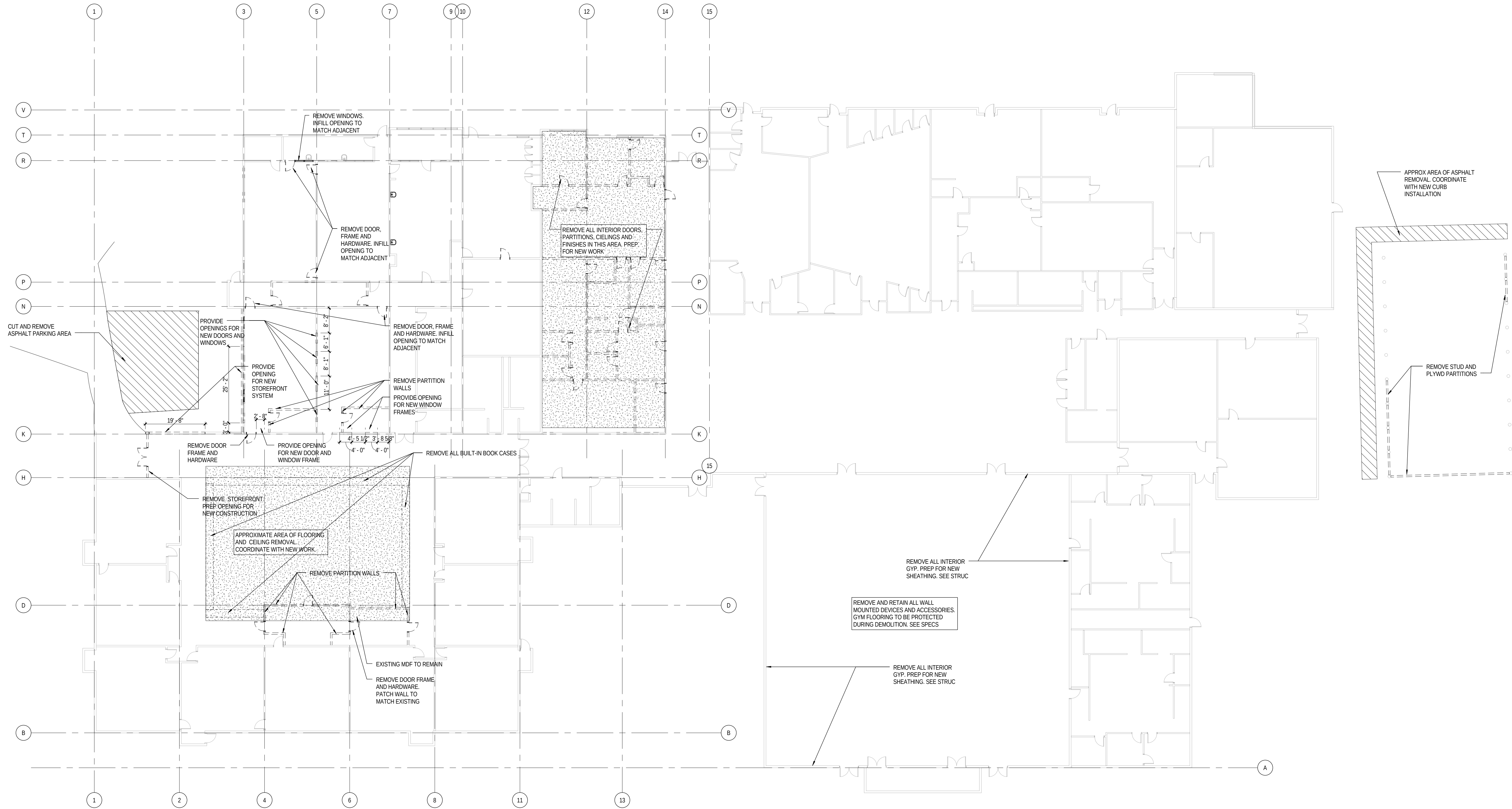


41 WORKROOM - SOUTH INTERIOR ELEVATION
A12.8 SCALE: 3/8" = 1'-0"



42 CONFERENCE 276 - NORTH INTERIOR ELEVATION
A12.8 SCALE: 3/8" = 1'-0"

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DEMOLITION NOTES

- DEMOLITION GENERAL NOTES APPLY TO ALL DEMOLITION SHEETS.
- COORDINATE DEMOLITION AND PHASING EFFORTS WITH ARCHITECT AND OWNER'S REPRESENTATIVES. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF OWNER'S OPERATIONS AND TO PROVIDE BUILDING USER'S SAFETY. EXCESSIVE NOISE OR VIBRATION SHALL BE PRE-APPROVED AND COORDINATED WITH OWNER'S REPRESENTATIVE.
- COORDINATE DISRUPTION OF UTILITY SERVICES WITH OWNER AND AS SPECIFIED.
- CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE DEMOLITION AND CONSTRUCTION WORK FROM GENERAL PUBLIC AND AS DEEMED NECESSARY BY OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH OWNER AND MAINTAIN MEANS OF EGRESS THROUGHOUT THE WORK.
- MAINTAIN A SECURE AND WEATHER-TIGHT ENCLOSURE.
- VERIFY EXISTING CONDITIONS, DIMENSIONS, AND ELEVATIONS AND NOTIFY ARCHITECT OF DISCREPANCIES.
- REMOVE EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILINGS, SOFFITS, MARKERBOARDS, ETC. IN THEIR ENTIRETY AND AS REQUIRED TO EXECUTE DEMOLITION AND CONSTRUCTION WORK DESCRIBED ON THE DRAWINGS.
- THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY MATERIALS.
- PROVIDE PROTECTION FOR EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO DEMOLITION OR CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS CONTRACT.
- REPAIR OR REPLACE ITEMS DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH AND/OR CONDITION.
- EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED OTHERWISE OR AS AUTHORIZED BY ARCHITECT.

- VERIFY AND MAINTAIN LOCATION OF EXISTING POWER, COMMUNICATION AND DATA CABLES TO PREVENT INTERRUPTION OF SERVICE.
- PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING FROM REMOVAL OR REROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, ETC. AS REQUIRED TO MAINTAIN FIRE SEPARATIONS. MATCH FINISH OF NEW OR EXISTING ADJACENT SURFACES.
- CAP DISCONNECTED MECHANICAL PIPING LINES WITHIN WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES. SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SEQUENCING AND SCOPE OF WORK.
- AVOID DISTURBING OF SOILS WITHIN ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL ENGINEER.
- WHERE CMU WALLS ARE INDICATED TO BE REMOVED; PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY REMOVING CMU IN TOOTH-IN PATTERN BOTH SIDES OF DEMOLITION FOR CONTRACTOR TO TOOTH IN NEW CMU PATCHES.
- WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED; PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 12 INCHES BEYOND DEMOLITION.

GENERAL NOTES

DRAWING INDEX		ISSUE LOG			
S0.1	DRAWING INDEX AND LIST OF ABBREVIATIONS	X	X	X	X
S0.2	GENERAL STRUCTURAL NOTES	-	X	X	X
S0.3	GENERAL STRUCTURAL NOTES CONT.	-	X	X	X
S0.4	STATEMENT OF SPECIAL INSPECTION	-	X	X	X
S0.5	STATEMENT OF SPECIAL INSPECTION	-	X	X	X
S1.1	FOUNDATION PLAN, FIRST LEVEL - AREA A	X	X	X	X
S1.2	FOUNDATION PLAN, FIRST LEVEL - AREA B	-	X	X	X
S1.4	GYMNASIUM FLOOR PLAN	X	X	X	X
S4.1	FOOR FRAMING PLAN , FIRST LEVEL - AREA A	-	X	X	X
S4.2	ROOF FRAMING PLAN, FIRST LEVEL - AREA B	-	X	X	X
S4.4	GYMNASIUM ROOF FRAMING PLAN	X	X	X	X
S5.1	CONCRETE DETAILS	-	X	X	X
S6.1	STEEL DETAILS	-	X	X	X
S8.1	WOOD DETAILS	-	X	X	X
S8.2	WOOD DETAILS	-	X	X	X
S8.3	WOOD DETAILS	-	-	X	X
ISSUE LOG KEY: ' X ' ISSUED AS PART OF A SET ' - ' NOT A PART OF ISSUED SET ' * ' FOR INFORMATION ONLY		DATE	03/31/2015	04/07/2015	04/22/2015

LIST OF ABBREVIATIONS

A.B.	ANCHOR BOLT	LVF	LOW VELOCITY FASTENER
ACI	AMERICAN CONCRETE INSTITUTE	MAX.	MAXIMUM
ADD'L.	ADDITIONAL	MBMA	METAL BUILDING MANUFACTURERS ASSOCIATION
AESS	ARCHITECTURAL EXPOSED STRUCTURAL STEEL	MECH.	MECHANICAL
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION INCORPORATED	MFR.	MANUFACTURER
ALT.	ALTERNATE	MIN.	MINIMUM
ALUM.	ALUMINUM	MISC.	MISCELLANEOUS
ARCH.	ARCHITECT	MPH	MILES PER HOUR
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	MT	MAGNETIC PARTICLE TESTING
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	(N)	NEW
AWS	AMERICAN WELDING SOCIETY	N.I.C.	NOT IN CONTRACT
BLDG.	BUILDING	NOM.	NOMINAL
BOT.	BOTTOM	NO.	NUMBER
BRBF	BUCKLING RESTRAINED BRACED FRAME	N.T.S.	NOT TO SCALE
C.G.	CENTER OF GRAVITY	O.C.	ON CENTER
C.I.P.	CAST IN PLACE	O.D.	OUTSIDE DIAMETER
C.J.	CONTROL JOINT	OPP.	OPPOSITE
C.J.P.	COMPLETE JOINT PENETRATION	OWJ	OPEN WEB JOIST
CL	CENTERLINE	PAF	POWDER ACTUATED FASTENER
CLR.	CLEAR	PART.	PARTITION
CMU	CONCRETE MASONRY UNIT	P/C	PRECAST
COL	COLUMN	PCF	POUNDS PER CUBIC FOOT
CONC.	CONCRETE	PERIM.	PERIMETER
CONN.	CONNECTION	PL	PLATE
CONST.	CONSTRUCTION	PP	PARTIAL PENETRATION
CONT.	CONTINUOUS	PSF	POUNDS PER SQUARE FOOT
db	BAR DIAMETER	PSI	POUNDS PER SQUARE INCH
DBA	DEFORMED BAR ANCHOR	P/T	POST-TENSIONED
DET.	DETAIL	P.T.	PRESSURE TREATED
Ø, Ø	DIAMETER	PVC	POLYVINYL CHLORIDE
DIAG.	DIAGONAL	R, RAD.	RADIUS
D.L.	DEAD LOAD	RCSC	RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS
DWG.	DRAWING	REF.	REFERENCE
ELEC.	ELECTRICAL	RET.	RETURN
EL.	ELEVATION	REINF.	REINFORCING
EQ.	EQUAL	REQ'D.	REQUIRED
EXIST., (E)	EXISTING	REQMTS.	REQUIREMENTS
EXP.	EXPANSION	SCHED.	SCHEDULE
EXT.	EXTERIOR	S.C.	SLIP CRITICAL
FDN.	FOUNDATION	SIM.	SIMILAR
FIN.	FINISH	SLRS	SEISMIC LOAD RESISTING SYSTEM
FLR.	FLOOR	S.O.G.	SLAB ON GRADE
FT.	FOOT	SPEC.	SPECIFICATION
FTG.	FOOTING	SQ.	SQUARE
GA.	GAUGE	SS	STAINLESS STEEL
GALV.	GALVANIZED	SSMA	STEEL STUD MANUFACTURERS ASSOCIATION
GL	GLULAM	STD.	STANDARD
HORIZ.	HORIZONTAL	STRUCT.	STRUCTURAL
HSS	HOLLOW STRUCTURAL STEEL	SYM.	SYMMETRICAL
IBC	INTERNATIONAL BUILDING CODE	THRU	THROUGH
ICBO	INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS	T & G	TONGUE AND GROOVE
I.D.	INSIDE DIAMETER	TRANS.	TRANSVERSE
IN.	INCH	TJ	TRUSS JOIST
INT.	INTERIOR	TS	LIGHT GAUGE TUBE STEEL
K	KIPS	TYP.	TYPICAL
KSF	KIPS PER SQUARE FOOT	U.N.O.	UNLESS NOTED OTHERWISE
KSI	KIPS PER SQUARE INCH	U.T.	ULTRASONIC TESTING
LB.	POUND	VERT.	VERTICAL
L.L.	LIVE LOAD	V.I.F.	VERIFY IN FIELD
LLH	LONG LEG HORIZONTAL	w/	WITH
LLV	LONG LEG VERTICAL	WF	WIDE FLANGE
LOC.	LOCATION	w/o	WITHOUT
LONG.	LONGITUDINAL	W.P.	WORK POINT
		WPS	WELDING PROCEDURE SPECIFICATION
		WWF	WELDED WIRE FABRIC

STRUCTURAL

REGISTERED PROFESSIONAL ENGINEER

15,773



OREGON

JAN 21 1981

GERALD L. ABBIE

EXPIRES 12-31-15

Project Status
PERMIT/BID ISSUE

DRAWING INDEX AND LIST OF ABBREVIATIONS
FERN RIDGE MIDDLE SCHOOL

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74-13107-30
04-29-2015
REVISIONS

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Architecture Planning Interiors

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GENERAL STRUCTURAL NOTES

STRUCTURAL DRAWINGS ARE A PORTION OF THE CONTRACT DOCUMENTS AND ARE INTENDED TO BE USED WITH ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE REQUIREMENTS FROM THESE DRAWINGS INTO THEIR SHOP DRAWINGS AND WORK.

THESE GENERAL NOTES SUPPLEMENT THE PROJECT SPECIFICATIONS. REFER TO THE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. NOTES AND DETAILS ON THE STRUCTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER THE GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.

CODE REQUIREMENTS:

CONFORM TO THE 2014 OREGON STRUCTURAL SPECIALTY CODE (OSSC), BASED ON THE 2012 INTERNATIONAL BUILDING CODE (IBC). SEISMIC UPGRADES ARE VOLUNTARY AND THEREFORE NOT NECESSARILY DESIGNED TO CURRENT CODE.

TEMPORARY CONDITIONS:

THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES.

CONTRACTOR'S CONSTRUCTION AND/OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD.

EXISTING CONDITIONS:

ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS SHALL BE FIELD VERIFIED. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY SIGNIFICANT DISCREPANCIES FROM CONDITIONS SHOWN ON THE DRAWINGS.

ASSUMED FUTURE CONSTRUCTION:

VERTICAL: NONE
HORIZONTAL: NONE

DESIGN CRITERIA:

DESIGN WAS BASED ON THE STRENGTH AND DEFLECTION CRITERIA OF THE OSSC. IN ADDITION TO THE DEAD LOADS, THE FOLLOWING LOADS AND ALLOWABLES WERE USED FOR DESIGN, WITH LIVE LOADS (L.L.) REDUCED PER OSSC:

DESIGN CRITERIA		
GRAVITY SYSTEM CRITERIA		
ROOF LIVE LOAD	20 PSF L.L. (ALSO SEE SNOW LOAD CRITERIA BELOW)	
SNOW CRITERIA		
DESIGN ROOF SNOW LOAD	27 PSF = 22 + 5 PSF RAIN ON SNOW SURCHARGE	
SNOW DRIFT	Pg= 19 PSF IN ACCORDANCE WITH 2007 SNOW LOAD ANALYSIS FOR OREGON PER OSSC AS SHOWN ON PLANS	
GROUND SNOW LOAD	Pf = 15 PSF	
FLAT ROOF SNOW LOAD	Ce = 1.0	
SNOW EXPOSURE FACTOR	Is = 1.1	
SNOW LOAD IMPORTANCE FACTOR	Ct = 1.0	
THERMAL FACTOR		
GEOTECHNICAL CRITERIA		
DESIGN BASED ON:	ASSUMED VALUES TO BE VERIFIED IN FIELD (V.I.F.)	
ALLOWABLE SOIL PRESSURE:	1,500 PSF (V.I.F.)	
SHORT TERM LOADING	2,000 PSF (V.I.F.)	
WIND CRITERIA		
RISK CATEGORY	III	
MAIN WIND FORCE RESISTING SYSTEM	Vult = 130 MPH ULTIMATE DESIGN WIND SPEED (3-SECOND GUST)	
COMPONENTS AND CLADDINGS	Vult = 130 MPH ULTIMATE DESIGN WIND SPEED (3-SECOND GUST)	
EXPOSURE CATEGORY	C	
GUST/INTERNAL PRESSURE	GCpi = +/- 0.18	
SEISMIC CRITERIA		
RISK CATEGORY	III	
SEISMIC DESIGN CATEGORY	D	
SITE CLASS	D	
IMPORTANCE FACTOR	IE = 1.25	
MCE SPECTRAL ACCELERATION	Ss = 0.916	S1 = 0.474
DESIGN SPECTRAL ACCELERATION	SDS = 0.692	SD1 = 0.482
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE PER ASCE 7-10, SECTION 12.8	
	GYM & 1930's CLASSROOM BLOCK	LIBRARY AND 1970's CLASSROOM BLOCK
SEISMIC LOAD RESISTING SYSTEM (SLRS)	TIMBER BEARING WOOD SHEATHED SHEAR WALLS	REINFORCED MASONRY BEARING SHEAR WALLS
RESPONSE MODIFICATION FACTOR	R = 6.5	R = 3.5
SEISMIC RESPONSE COEFFICIENT	Cs = 0.133	Cs = 0.247
REDUNDANCY FACTOR	rho = 1.0	rho = 1.0

SEISMIC LOAD RESISTING SYSTEM:

THE SEISMIC LOAD RESISTING SYSTEM (SLRS) FOR THE COMPLETED STRUCTURE IS AS FOLLOWS:

GYMNASIUM: TIMBER BEARING WOOD SHEATHED SHEAR WALLS TRANSFER LATERAL LOADS FROM DIAPHRAGM TO CONCRETE STEM WALLS AND INTO CONCRETE STRIP FOOTINGS.

1930's CLASSROOM BLOCK: TIMBER BEARING GYPSUM SHEATHED SHEAR WALLS TRANSFER LATERAL LOADS FROM ROOF DIAPHRAGM TO CONCRETE STEM WALLS AND INTO CONCRETE STRIP FOOTINGS.

1970's CLASSROOM BLOCK AND LIBRARY: REINFORCED MASONRY SHEAR WALLS TRANSFER LATERAL LOADS FROM ROOF DIAPHRAGM TO CONCRETE STEM WALLS AND INTO CONCRETE STRIP FOOTINGS.

REFER TO THE GENERAL STRUCTURAL NOTES AND PROJECT SPECIFICATIONS FOR DETAILING, INSTALLATION, TESTING AND INSPECTION REQUIREMENTS FOR MEMBERS THAT ARE PART OF THE SEISMIC LOAD RESISTING SYSTEM (SLRS).

DESIGN AND DETAILING WAS BASED ON CRITERIA FOR SEISMIC DESIGN CATEGORY D.

STRUCTURAL OBSERVATION:

THE STRUCTURAL ENGINEER OF RECORD (SER) WILL PERFORM STRUCTURAL OBSERVATION BASED ON THE REQUIREMENTS OF THE OSSC AT THE STAGES OF CONSTRUCTION LISTED BELOW. CONTRACTOR SHALL PROVIDE SUFFICIENT NOTICE AND ACCESS FOR THE SER TO PERFORM THESE OBSERVATIONS.

STRUCTURAL OBSERVATIONS			
ITEM	OBSERVED BY (2)		COMMENTS
	AOR	SER	
PRIOR TO FIRST CONCRETE POUR		X	REF. NOTES 1,3,4,5
AS REQUIRED TO ADDRESS STRUCTURAL ISSUES		X	REF. NOTES 1,3,4

FOOTNOTES:

- CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE SER IN ADVANCE.
- SER - STRUCTURAL ENGINEER OF RECORD.
AOR - ARCHITECT OF RECORD.
- A FIELD REPORT WILL BE SUBMITTED TO THE BUILDING DEPARTMENT FOLLOWING EACH SITE VISIT.
- STRUCTURAL OBSERVATION IS FOR THE GENERAL CONFORMANCE OF THE STRUCTURAL DRAWING, SPECIAL INSPECTION IS STILL REQUIRED.
- AFTER REINFORCING STEEL HAS BEEN INSTALLED.

SPECIAL INSPECTION AND TESTING:

SPECIAL INSPECTION WILL BE PROVIDED BY THE OWNER BASED ON THE REQUIREMENTS OF THE OSSC AS SUMMARIZED IN THE SPECIAL INSPECTION AND TESTING PROGRAM ON SHEETS \$0.04 TO \$0.06. CONTRACTOR SHALL PROVIDE SUFFICIENT NOTICE AND ACCESS FOR THE SPECIAL INSPECTOR TO PERFORM THESE INSPECTIONS.

SUBMITTALS:

SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO FABRICATION AND CONSTRUCTION OF ALL STRUCTURAL ITEMS, INCLUDING THE FOLLOWING:

SUBMITTALS			
ITEM	SUBMITTAL (1,4)	DEFERRED SUBMITTAL (2,4)	COMMENTS
CONCRETE MIX DESIGNS	X		
CONCRETE REINFORCEMENT	X		
CONCRETE ANCHORAGES	X		
STRUCTURAL STEEL	X		
STEEL WELDING PROCEDURES	X		
LIGHT GAUGE METAL FRAMING		X	
CURTAIN WALL, WINDOW WALL AND OTHER GLAZING SYSTEMS		X	
SKYLIGHTS, CANOPIES AND AWNINGS		X	
STAIRS AND RAILINGS		X	
MEP EQUIPMENT ANCHORAGE AND BRACING		X	REF. NOTES

FOOTNOTES:

- SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO FABRICATION AND CONSTRUCTION OF STRUCTURAL ITEMS. IF THE SHOP DRAWINGS DIFFER FROM OR ADD TO THE DESIGN OF THE STRUCTURAL DRAWINGS, THEY SHALL BEAR THE SEAL AND SIGNATURE OF A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF OREGON. ANY CHANGES TO THE STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT AND ARE SUBJECT TO REVIEW AND ACCEPTANCE OF THE STRUCTURAL ENGINEER.
- DESIGN DRAWINGS, SHOP DRAWINGS, AND CALCULATIONS FOR THE DESIGN AND FABRICATION OF ITEMS THAT ARE DESIGNED BY OTHERS SHALL BEAR THE SEAL AND SIGNATURE OF A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF OREGON, AND SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO FABRICATION. CALCULATIONS SHALL BE INCLUDED FOR ALL CONNECTIONS TO THE STRUCTURE, CONSIDERING LOCALIZED EFFECTS ON STRUCTURAL ELEMENTS INDUCED BY THE CONNECTION LOADS. DESIGN SHALL BE BASED ON THE REQUIREMENTS OF THE OSSC AND AS NOTED UNDER "DESIGN CRITERIA".
- THE CONTRACTOR SHALL COORDINATE SEISMIC RESTRAINTS OF MECHANICAL, PLUMBING, AND ELECTRICAL EQUIPMENT, MACHINERY, AND ASSOCIATED PIPING WITH THE STRUCTURE. CONNECTIONS TO STRUCTURE SHALL CONFORM TO ASCE 7-10 CHAPTER 13, BE DESIGNED BY AN ENGINEER REGISTERED IN THE STATE OF OREGON, AND SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO FABRICATION.
- FIELD ENGINEERED DETAILS DEVELOPED BY THE CONTRACTOR THAT DIFFER FROM OR ADD TO THE STRUCTURAL DRAWINGS SHALL BEAR THE SEAL AND SIGNATURE OF A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF OREGON AND SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO CONSTRUCTION.

CONCRETE:

CONCRETE WORK SHALL CONFORM TO CHAPTER 19 OF THE OSSC. CONCRETE STRENGTHS SHALL BE VERIFIED BY STANDARD 28-DAY CYLINDER TESTS PER ASTM C39, AND SHALL BE AS FOLLOWS:

CONCRETE STRENGTHS			
f'c (PSI)	ABSOLUTE WATER-CEMENT RATIO BY WEIGHT		USE
	NON AIR-ENTRAINED	AIR-ENTRAINED	
3,000	.54	.46	ALL USES, UNLESS NOTED OTHERWISE

VERIFY WATER/CEMENT RATIO WITH FLOOR COVERING MANUFACTURER FOR CONCRETE FLOORS WITH MOISTURE SENSITIVE FLOOR COVERINGS.

MINIMUM CEMENT CONTENT PER CUBIC YARD SHALL BE AS FOLLOWS:

CEMENT CONTENT	
f'c (PSI)	MINIMUM CEMENT PER CUBIC YARD
3,000	470 LBS.

FLYASH CONFORMING TO ASTM C618 (INCLUDING TABLE 2A) TYPE F OR TYPE C MAY BE USED TO REPLACE UP TO 20% OF THE CEMENT CONTENT, PROVIDED THAT THE MIX STRENGTH IS SUBSTANTIATED BY TEST DATA.

THE CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS ALONG WITH TEST DATA COMPLIANT WITH ACI 319-11 SECTION 5.3 A MINIMUM OF TWO WEEKS PRIOR TO PLACING CONCRETE. NO WATER MAY BE ADDED TO CONCRETE IN THE FIELD UNLESS SPECIFICALLY APPROVED IN WRITING BY THE CONCRETE SUPPLIER IN CONJUNCTION WITH THE CONCRETE MIX DESIGN.

A WATER-REDUCING ADMIXTURE CONFORMING TO ASTM C494 USED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS SHALL BE INCORPORATED IN CONCRETE DESIGN MIXES. A HIGH-RANGE WATER-REDUCING (HRWR) ADMIXTURE CONFORMING TO ASTM C494 TYPE F OR G MAY BE USED IN CONCRETE MIXES PROVIDING THAT THE SLUMP DOES NOT EXCEED 10". AN AIR-ENTRAINING AGENT CONFORMING TO ASTM C260 SHALL BE USED IN CONCRETE MIXES FOR EXTERIOR HORIZONTAL SURFACES EXPOSED TO WEATHER. THE AMOUNT OF ENTRAINED AIR SHALL BE 6% ± 1% BY VOLUME.

SLEEVES, OPENINGS, CONDUIT, AND OTHER EMBEDDED ITEMS NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER BEFORE PLACING CONCRETE. CONDUITS EMBEDDED IN SLABS SHALL NOT BE LARGER IN OUTSIDE DIMENSION THAN ONE THIRD OF THE THICKNESS OF THE SLAB AND SHALL NOT BE SPACED CLOSER THAN THREE DIAMETERS ON CENTER.

WHERE NEW CONCRETE IS PLACED AGAINST EXISTING CONCRETE, THE EXISTING CONCRETE SURFACE SHALL BE CLEANED AND ROUGHENED TO A MINIMUM 1/4" AMPLITUDE. PROVIDE 3/4" CHAMFERS ON ALL EXPOSED CONCRETE EDGES, UNLESS NOTED OTHERWISE.

VERIFY ALL BLOCK OUTS WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING REQUIREMENTS.

REINFORCING STEEL:

REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, FOR DEFORMED BARS AND ASTM A185 FOR SMOOTH WELDED WIRE FABRIC (WWF), UNLESS OTHERWISE NOTED. REINFORCING STEEL TO BE WELDED SHALL CONFORM TO ASTM A706. COLUMN SPIRALS SHALL BE PLAIN OR DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60. REINFORCING STEEL SHALL BE SECURELY TIED IN PLACE WITH #16 ANNEALED IRON WIRE.

BARS IN BEAMS AND SLABS SHALL BE SUPPORTED ON WELL-CURED CONCRETE BLOCKS OR APPROVED METAL CHAIRS, AS SPECIFIED BY THE CRSI MANUAL OF STANDARD PRACTICE, MSP-1. REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE "ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES," ACI 315. SHOP DRAWINGS SHALL INCLUDE ELEVATIONS OF ALL BEAMS, WALLS AND COLUMNS SHOWING BAR LOCATIONS. LAP ALL REINFORCING BARS PER THE TYPICAL LAP SPLICE LENGTH SCHEDULES, EXCEPT AS NOTED ON DRAWINGS. USE LAP LENGTH FOR SMALLER BAR WHEN SPLICING DIFFERENT BAR SIZES. MECHANICAL SPLICES NOTED ON THE PLANS SHALL BE DAYTON SUPERIOR BAR-LOCK (ICC ESR-2495) OR TAPERLOCK COUPLERS (IAPMO ER-0319) OR APPROVED WITH A CURRENT ICC APPROVAL REPORT.

TYP. WALL AND SLAB LAP SPLICE LENGTH SCHEDULE (IN.)				
BAR SIZE	WALL VERTICAL AND SLAB BOTTOM BARS (NOTE 7)	WALL HORIZONTAL AND SLAB TOP BARS (NOTE 7)		
	f'c = 3,000 PSI	f'c = 4,000 PSI	f'c = 3,000 PSI	f'c = 4,000 PSI
#3	14	12	18	16
#4	22	20	28	26
#5	32	28	42	36

TABLE NOTES:

- MINIMUM LAP SPLICES NOTED ARE FOR NON-LATERAL LOAD RESISTING ELEMENTS. FOR REBAR LAPS SPLICES AT LATERAL LOAD RESISTING ELEMENTS, REFERENCE PLANS AND ELEVATIONS.
- ASTM A615 OR ASTM A706, GRADE 60 DEFORMED REINFORCING BARS
- MINIMUM CLEAR COVER AND BAR SPACING OF 4db TO BE PROVIDED.
- NORMAL WEIGHT CONCRETE, FOR LIGHT-WEIGHT CONCRETE MULTIPLY TABLE VALUES BY 1.3.
- UNCOATED BARS, FOR EPOXY-COATED BARS MULTIPLY TABLE VALUES BY 1.5.
- COMBINATIONS OF EFFECTS DUE TO CONCRETE STRENGTH, CONCRETE WEIGHT, AND EPOXY COATING ARE CUMULATIVE.
- SLAB AND FOUNDATION MAT TOP BARS ARE BARS CAST ABOVE MORE THAN 12" OF FRESH CONCRETE. ALL OTHER SLAB BARS MAY BE CONSIDERED BOTTOM BARS.

REINFORCING STEEL SHALL HAVE PROTECTION AS FOLLOWS:

REINFORCING STEEL CONCRETE COVER	
USE	COVER
BEAM, JOIST AND COLUMN BARS	1 1/2" (TO STIRRUPS OR TIES)
SLAB BARS	1"
WALL BARS: INTERIOR FACES	3/4"
WALL BARS: EXPOSED TO EARTH OR WEATHER	1 1/2" (#5 AND SMALLER) 2" (#6 AND LARGER)
FOOTING BARS	3"

CONCRETE REINFORCING DETAILS:

CONTINUE HORIZONTAL WALL BARS THROUGH PILASTERS, COLUMNS AND INTERSECTING WALLS. AT SLAB AND WALL OPENINGS PROVIDE A MINIMUM OF TWO #5 BARS OVER, UNDER AND AT THE SIDES OF THE OPENINGS. EXTEND THESE BARS LAP DISTANCE OR A MINIMUM OF 2'-0" PAST THE OPENING. PROVIDE ONE #5 FOR SINGLE-LAYER REINFORCING AND TWO #5 FOR DOUBLE-LAYER REINFORCING. 4'-0" LONG, DIAGONALLY AT EACH CORNER OF ALL OPENINGS. REFER TO TYPICAL DETAILS FOR DISPOSITION OF CORNER BARS AND BARS IN SMALL WALL SECTIONS. SLAB BARS SHALL BE HOOKED INTO WALLS, OR HOOKED DOWELS SHALL BE PROVIDED TO MATCH SLAB REINFORCING. PROVIDE TWO #4, 4'-0" LONG DIAGONALLY AT EACH RE-ENTRANT CORNER IN SLABS. PROVIDE HOOKED DOWELS FROM FOOTINGS TO MATCH VERTICAL WALL REINFORCING.

CONCRETE ACCESSORIES:

APPROVED POST INSTALLED ANCHORS		
ANCHORS	TYPE	ALTERNATE
EXPANSION	HILTI KWIK BOLT TZ (ICC ESR-1917)	SIMPSON STRONG-BOLT 2 (ICC ESR-3037)
CONCRETE SCREW	HILTI KWIK HUS-EZ (ICC ESR-3027)	SIMPSON TITEN HD (ICC ESR-2713)
EPOXY ADHESIVE	HILTI HIT-RE 500SD (ICC ESR-2322)	SIMPSON SET-XP (ICC ESR-2508)

ALL ANCHORS SHALL BE INSTALLED IN STRICT CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS. DO NOT CUT REINFORCING IN NEW OR EXISTING CONCRETE DURING INSTALLATION. ANCHORS EXPOSED TO EARTH OR WEATHER SHALL BE PROTECTED FROM CORROSION BY HOT-DIP GALVANIZING OR USE OF STAINLESS STEEL.

PERMANENTLY EXPOSED EMBEDDED PLATES AND ANGLES SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION, UNLESS OTHERWISE NOTED. NO LOADS OR WELDS SHALL BE PLACED ON EMBEDDED PLATES OR ANGLES FOR A MINIMUM OF 7 DAYS AFTER CASTING.

MASONRY ACCESSORIES:

ALL ANCHORS SHALL BE INSTALLED IN STRICT CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS. REINFORCING IN NEW OR EXISTING MASONRY SHALL NOT BE CUT DURING INSTALLATION. ALL ANCHORS EXPOSED TO EARTH OR WEATHER SHALL BE PROTECTED FROM CORROSION BY HOT-DIP GALVANIZING OR USE OF STAINLESS STEEL.

MASONRY ANCHORS		
ANCHORS	TYPE	ALTERNATE
EXPANSION	HILTI KWIK BOLT 3 (ICC ESR-1385)	SIMPSON WEDGE-ALL (ICC ESR-1396)
SCREW	HILTI HUS-EZ (ICC ESR-3058)	SIMPSON TITEN HD (ICC ESR-1056)
ADHESIVE	HILTI HIT HY-70 (ICC ESR-2682)	SIMPSON SET (ICC ESR-1772)

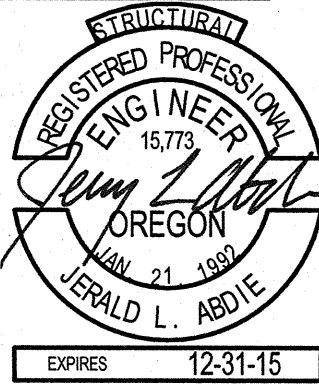
NOTE:

- MINIMUM GROUT COVER BETWEEN REINFORCEMENT AND INSIDE FACE OF CELL SHALL BE 1/4" FOR FINE GROUT AND 1/2" FOR COURSE GROUT.

EPOXY ANCHORS FOR UNREINFORCED MASONRY:

ADHESIVE ANCHORS IN UNREINFORCED MASONRY SHALL BE HILTI HIT HY-70 (ICC ESR-3342) OR SIMPSON SET (ICC ESR-1772). TYPICAL ANCHOR INSTALLATION SHALL BE DRILLED WITH A ROTARY DRILL. NO IMPACT/HAMMERING ACTION IS ALLOWED.

SUBSTITUTIONS MAY BE MADE PROVIDED TESTING IS COMPLETED IN ACCORDANCE WITH THE PREQUALIFIED TESTING PROCEDURES USED FOR THE SPECIFIED ANCHORS, AND THE RESULTS ARE EQUIVALENT TO THE VALUES SHOWN ABOVE.



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GENERAL STRUCTURAL NOTES
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GENERAL STRUCTURAL NOTES CONT.

STRUCTURAL STEEL:
STRUCTURAL STEEL SHALL BE:

STRUCTURAL STEEL	
MATERIAL GRADE	SHAPE
ASTM A992, GRADE 50	WIDE FLANGE SHAPES
ASTM A572, GRADE 50	PLATES WHERE NOTED
ASTM A36	CHANNELS, PLATES AND ANGLES, EXCEPT AS NOTED
ASTM A500, GRADE B (FY=46KSI)	HOLLOW STRUCTURAL SECTIONS (TUBES)
ASTM A53, GRADE B (FY=35 KSI)	PIPES

DESIGN, FABRICATION, AND ERECTION SHALL BE IN ACCORDANCE WITH THE "AISC SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" WITH "COMMENTARY" AND THE "CODE OF STANDARD PRACTICE", WITH EXCEPTIONS NOTED IN SPECIFICATIONS.

BOLTS SHALL CONFORM TO THE ASTM AND RCSC SPECIFICATIONS FOR JOINTS USING A325 OR A490 HIGH STRENGTH BOLTS. BOLTS SHALL BE SNUG-TIGHT UNLESS NOTED OTHERWISE.

WELDING SHALL CONFORM TO THE AWS CODES FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION. WELDING SHALL BE PERFORMED IN ACCORDANCE WITH A WELDED PROCEDURE SPECIFICATION (WPS) AS REQUIRED IN AWS D1.1 AND APPROVED BY THE STRUCTURAL ENGINEER. THE WPS VARIABLES SHALL BE WITHIN THE PARAMETERS ESTABLISHED BY THE FILLER-METAL MANUFACTURER.

FOR COMPLETE JOINT PENETRATION WELDS ASSOCIATED WITH MEMBER SPLICES AND CONNECTIONS NOT PART OF THE SLRS, WELDS SHALL BE MADE WITH FILLER METAL THAT HAS A MINIMUM CVN TOUGHNESS OF 20 FT-LBS AT 40 DEGREES F.

WELDS SHALL BE MADE USING E70XX ELECTRODES AND SHALL BE 3/16" MINIMUM, UNLESS OTHERWISE NOTED. WELDING SHALL BE BY AWS CERTIFIED WELDERS.

PROVIDE WEEP HOLES AT EXTERIOR CLOSED SECTIONS WHERE MOISTURE MAY ACCUMULATE.

SAWN LUMBER:
SAWN LUMBER SHALL CONFORM TO WEST COAST LUMBER INSPECTION BUREAU OR WESTERN WOOD PRODUCTS ASSOCIATION GRADING RULES. LUMBER SHALL BE KILN DRIED AND BE THE SPECIES AND GRADE NOTED BELOW:

SAWN LUMBER		
USE	SPECIES AND GRADE	Fb (PSI)
DIM. LUMBER 2" TO 4" THICK	DOUGLAS FIR-LARCH NO. 2	900
BEAMS 5"x6" AND GREATER	DOUGLAS FIR-LARCH NO. 1	1350
POSTS	DOUGLAS FIR-LARCH NO. 1	1200
T&G DECKING	DOUGLAS FIR-LARCH COMMERCIAL DEX	1450

ALL LUMBER IN CONTACT WITH CONCRETE OR CMU SHALL BE PRESSURE TREATED, UNLESS AN APPROVED MOISTURE BARRIER IS PROVIDED. FRAMING ACCESSORIES AND STRUCTURAL FASTENERS SHALL BE MANUFACTURED BY SIMPSON STRONG TIE (OR APPROVED EQUAL) AND OF THE SIZE AND TYPE SHOWN ON THE DRAWINGS. ALL NAIL HOLES SHALL BE FILLED WITH STRUCTURAL FASTENERS, UNLESS NOTED OTHERWISE ON THE DRAWINGS AND FASTENERS SHALL BE INSTALLED FOLLOWING ALL MANUFACTURERS REQUIREMENTS. IF A SUBSTITUTION IS MADE, A DOCUMENT SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL OUTLINING THE FRAMING ACCESSORIES BEING REPLACED AND THE SUBSTITUTED FRAMING ACCESSORIES. ALLOWABLE LOADS FOR THE SIMPSON ACCESSORIES SHALL BE TABULATED ALONG WITH ALLOWABLE LOADS FOR THE SUBSTITUTED ACCESSORIES, WHICH CLEARLY INDICATE THE SUBSTITUTED ACCESSORIES HAVING AN EQUAL OR GREATER CAPACITY. HANGERS NOT SHOWN SHALL BE SIMPSON U-TYPE OR B-TYPE OF SIZE RECOMMENDED FOR THE MEMBER.

ALL FRAMING NAILS SHALL BE OF THE SIZE AND NUMBER INDICATED ON THE DRAWINGS AND CONFORM TO ASTM F 1667, "STANDARD SPECIFICATION OF DRIVEN FASTENERS: NAILS, SPIKES, AND STAPLES AND NER-272 "POWER-DRIVEN STAPLES AND NAILS FOR USE IN ALL TYPES OF BUILDING CONSTRUCTION." NAILS SHALL BE IDENTIFIED BY LABELS (ATTACHED TO THEIR CONTAINERS) THAT SHOW THE MANUFACTURER'S NAME AND NES REPORT NUMBER, NAIL SHANK DIAMETER, AND LENGTH AND SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO FRAMING. NAILING NOT SHOWN SHALL BE AS INDICATED ON OSSC TABLE 2304.9.1 OR NER-272. THE FOLLOWING NAIL SIZES SHALL BE USED:

FRAMING NAILS		
NAIL TYPE	SHANK DIAMETER (IN.)	MINIMUM PENETRATION INTO FRAMING MEMBER (IN.)
6d	0.113	1.250
8d	0.131	1.500
10d	0.148	1.625
12d	0.148	1.625
16d	0.148	1.625

BOLTS AND LAG SCREWS SHALL CONFORM TO ANSI/ASME STANDARD B18.2.1-1981. ALL BOLTS AND LAG SCREWS SHALL BE INSTALLED WITH STANDARD CUT WASHERS. ALL A307 BOLTS SHALL HAVE CUT THREADS.

CUTTING AND NOTCHING OF JOISTS AND STUDS SHALL CONFORM TO OSSC SECTIONS 2308.4.2.4, 2308.5.9 AND 2308.7.4.

SALVAGED LUMBER SHALL BE GRADED BY AN APPROVED GRADING AGENCY PRIOR TO USE AND SHALL MEET THE MINIMUM BENDING STRESSES SHOWN ABOVE.

WOOD STRUCTURAL PANELS:
WOOD STRUCTURAL PANELS SHALL CONFORM TO THE REQUIREMENTS OF "U.S. PRODUCT STANDARD PS 1 FOR CONSTRUCTION AND INDUSTRIAL PLYWOOD", "U.S. PRODUCT STANDARD PS 2 PERFORMANCE STANDARD FOR WOOD-BASED STRUCTURAL-USE PANELS", OR "APA PRP-108 PERFORMANCE STANDARDS". UNLESS NOTED, PANELS SHALL BE APA RATED SHEATHING, EXPOSURE 1, OF THE THICKNESS AND SPAN RATING SHOWN ON THE DRAWINGS.

WOOD STRUCTURAL PANEL INSTALLATION SHALL BE IN CONFORMANCE WITH APA RECOMMENDATIONS. ALLOW 1/8" SPACING AT PANEL ENDS AND EDGES, UNLESS OTHERWISE RECOMMENDED BY THE PANEL MANUFACTURER.

ALL ROOF SHEATHING AND SUB-FLOORING SHALL BE INSTALLED WITH FACE GRAIN PERPENDICULAR TO SUPPORTS, EXCEPT AS INDICATED ON THE DRAWINGS. ROOF SHEATHING SHALL EITHER BE BLOCKED, TONGUE-AND-GROOVE, OR HAVE EDGES SUPPORTED BY PLYCLIPS. WHEN ROOF SHEATHING IS NAILED DIRECTLY TO BLOCKING, THE BLOCKING SHALL BE NAILED TO SUPPORT MEMBERS WITH A MINIMUM OF 16d NAILS AT 4" O.C. SUB-FLOORING SHEATHING SHALL BE UNBLOCKED, EXCEPT AS INDICATED ON DRAWINGS. SUB-FLOOR PANELS SHALL BE FIELD GLUED TO THE FRAMING USING ADHESIVES MEETING APA SPECIFICATION AFG-01 OR ASTM D3498. TONGUE AND GROOVE PANELS SHALL ALSO BE GLUED AT THE T&G JOINT. SHEAR WALL SHEATHING SHALL BE INSTALLED EITHER HORIZONTALLY OR VERTICALLY AND BE BLOCKED WITH 2x FRAMING AT ALL PANEL EDGES. NAILING NOT SHOWN SHALL BE AS INDICATED ON OSSC TABLE 2304.9.1. ALL NAILS SHALL BE COMMON NAILS EXCEPT USE RING SHANK FOR ROOF SHEATHING.

WOOD STRUCTURAL PANEL SHEAR WALLS:
SHEAR WALL SHEATHING TO BE PLYWOOD OR OSB PANELS CONFORMING TO THE REQUIREMENTS FOR ITS TYPE SPECIFIED IN DOC PS1 OR PS2. SHEATHING SHALL BE APPLIED EITHER HORIZONTALLY OR VERTICALLY. SHEET SIZES SHALL BE 4x8 UNLESS AT BOUNDARIES OR FRAMING CHANGES.

NAIL HEADS SHALL BE DRIVEN FLUSH WITH SHEATHING. DO NOT PENETRATE SURFACE PLY WITH NAIL HEADS. IF NAIL HEADS ARE NOT FLUSH NOTIFY E.O.R.

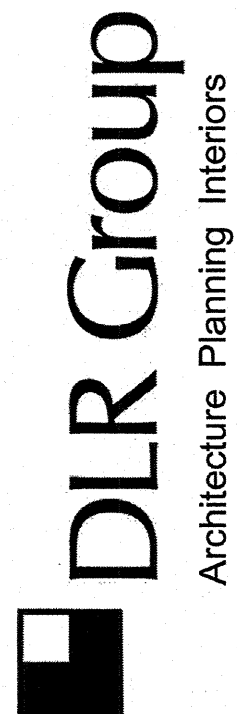
ALL SHEAR WALL PANEL SHEATHING EDGES SHALL BE BLOCKED. EDGE NAILS SHALL BE AT LEAST 3/8" FROM EDGES AND ENDS OF PANELS. STAGGER NAILING ON EDGES.



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GENERAL STRUCTURAL NOTES CONT.
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STATEMENT OF SPECIAL INSPECTIONS

TABLE 1 - REQUIRED GEOTECHNICAL SPECIAL INSPECTIONS					
SYSTEM OR MATERIAL	INSPECTION				REMARKS
	OSSC CODE REFERENCE	CODE OR STANDARDS REFERENCE	FREQUENCY (NOTE 6)		
			CONTINUOUS	PERIODIC	
SOILS					
VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	1705.6	GEOTECHNICAL REPORT		X	BY THE GEOTECHNICAL ENGINEER
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL				X	
PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS				X	
VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL			X		
PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY				X	

TABLE 2 - REQUIRED STRUCTURAL SPECIAL INSPECTIONS					
SYSTEM OR MATERIAL	INSPECTION			REMARKS	
	OSSC CODE REFERENCE	CODE OR STANDARD REFERENCE	FREQUENCY (NOTE 6)		
			CONTINUOUS		PERIODIC
FABRICATORS					
FABRICATORS	1704.2.5			X	SPECIAL INSPECTION IS REQUIRED FOR STRUCTURAL LOAD-BEARING MEMBERS AND ASSEMBLIES FABRICATED ON THE PREMISES OF A FABRICATOR'S SHOP PER TABLE 2 AND AS REQUIRED ELSEWHERE IN THE SPECIAL INSPECTION PROGRAM. THE SPECIAL INSPECTOR SHALL VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES AND SHALL REVIEW FOR COMPLETENESS AND ADEQUACY RELATIVE TO THE CODE REQUIREMENT. REFERENCE SECTION 1704.2.5.2 FOR APPROVED FABRICATOR EXCEPTION.
DEFERRED SUBMITTALS					
DEFERRED SUBMITTALS			X	X	SPECIAL INSPECTION REQUIREMENTS FOR DEFERRED SUBMITTAL ITEMS TO BE SPECIFIED BY THE SYSTEMS ENGINEER AND INCLUDED WITH DEFERRED SUBMITTAL DOCUMENTS.
CONCRETE					
GENERAL	1705.3 1901.4	ACI 318 1.3			SPECIAL INSPECTIONS OF CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF SECTION 1705.3 OF THE OSSC AND SECTION 1.3 OF ACI 318.
REINFORCING STEEL AND (POST TENSIONED/PRETENSIONED) TENDON PLACEMENT	1910.4 1901.3.2	ACI 318 3.5 ACI 318 7.1 TO 7.7		X	REINFORCING TO COMPLY WITH ALL CODE PROTECTION, SPACING AND TOLERANCE LIMITS.
WELDING REINFORCING STEEL	1705.2.2 1903.1	AWS D1.4 ACI 318: 3.5.2			
1. VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706				X	
2. REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL STRUCTURAL WALLS OF CONCRETE AND SHEAR REINFORCMENT			X		
3. SHEAR REINFORCEMENT			X		
4. OTHER REINFORCING STEEL				X	
PLACEMENT OF CAST-IN-PLACE BOLTS	1908.5 1909.1		X		ALL BOLTS VISUALLY INSPECTED
VERIFYING USE OF REQUIRED MIX DESIGN(S)	1904.2 1910.2 1910.3	ACI 318, CH. 4 ACI 318 5.2-5.4		X	
CONCRETE PLACEMENT, NON-SHRINK GROUT		ACI 318 5.9-5.10	X		
SHOTCRETE PLACEMENT	1910.6-8		X		
CONCRETE PLACEMENT AT COMPOSITE SLABS		ASCE 9, CH. 3	X		
CONCRETE/SHOTCRETE CURING	1910.9	ACI 318 5.11-5.13		X	
VERIFICATION OF IN-SITU CONCRETE STRENGTH PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE		ACI 318 6.2		X	
VERIFICATION OF FORMWORK		ACI 318 6.1.1		X	SPECIAL INSPECTIONS APPLY TO SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED
EMBEDDED ITEMS IN CONCRETE				X	ALL NON-STRUCTRAL EMBEDDED ITEMS, SUCH AS CONDUITS, PIPES AND SLEEVES, SHALL BE REVIEWED FOR CONFORMANCE WITH STRUCTURAL DOCUMENTS FOR SIZE, SPACING, LOCATION, EDGE DISTANCE AND TRIM REINFORING.

TABLE 2 - REQUIRED STRUCTURAL SPECIAL INSPECTIONS					
SYSTEM OR MATERIAL	INSPECTION			REMARKS	
	OSSC CODE REFERENCE	CODE OR STANDARD REFERENCE	FREQUENCY (NOTE 6)		
			CONTINUOUS		PERIODIC
STEEL					
REFERENCE TABLE 2A FOR REQUIRED SPECIAL INSPECTIONS FOR STEEL					
COLD-FORMED STEEL FRAMING					
MATERIAL VERIFICATION OF WELD FILLER METALS		AWS D1.3 SECTION 7		X	MANUFACTURER'S CERTIFIED TEST REPORTS
VERIFYING USE OF PROPER WPS'S				X	RETAIN A RECORD OF WELDING PROCEDURE SPECIFICATIONS
VERIFYING WELDER QUALIFICATIONS	1705.2.2.1			X	RETAIN A RECORD OF QUALIFICATION CARDS
WELDED FRAMING CONNECTIONS	1705.2.2.1	AWS D1.3 SECTION 7		X	ALL WELDS VISUALLY INSPECTED PER AWS D1.3 7.1
POST INSTALLED CONCRETE ANCHORS					
POST INSTALLED ANCHORS INSTALLATION IN HARDENED CONCRETE AND COMPLETED MASONRY	1908.5 1909.1	ACI 318: 1.3, 3.8.6		X (NOTE 8)	INSPECTION REQUIREMENTS PER ICC EVALUATION REPORT

STATEMENT OF SPECIAL INSPECTIONS NOTES

- SPECIAL INSPECTIONS SHALL CONFORM TO SECTION 1705 OF THE 2014 OSSC, CONTRACT DOCUMENTS AND APPROVED SUBMITTALS. REFER TO TABLES 1 THROUGH 5 FOR SPECIAL INSPECTION AND TABLE 6 FOR TESTING REQUIREMENTS.
- SPECIAL INSPECTIONS AND ASSOCIATED TESTING SHALL BE PERFORMED BY AN APPROVED ACCREDITED INDEPENDENT AGENCY MEETING THE REQUIREMENTS OF ASTM E329 (MATERIALS). THE INSPECTION AND TESTING AGENCY SHALL FURNISH TO THE STRUCTURAL ENGINEER AND ARCHITECT A COPY OF THEIR SCOPE OF ACCREDITATION. SPECIAL INSPECTORS SHALL BE APPROVED BY THE BUILDING OFFICIAL. WELDING INSPECTORS SHALL BE QUALIFIED PER SECTION 6.1.4.1.1 OF AWS D1.1.
- THE SPECIAL INSPECTOR SHALL OBSERVE THE INDICATED WORK FOR COMPLIANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION AND NOTED IN THE INSPECTION REPORTS.
- THE SPECIAL INSPECTOR AND GEOTECHNICAL ENGINEER SHALL FURNISH INSPECTION REPORTS FOR EACH INSPECTION TO THE BUILDING OFFICIAL, STRUCTURAL ENGINEER, ARCHITECT, CONTRACTOR, AND OWNER. THE SPECIAL INSPECTION AGENCY SHALL SUBMIT A FINAL REPORT STATING THAT THE WORK REQUIRING SPECIAL INSPECTION WAS INSPECTED AND IS IN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS AND THAT ALL DISCREPANCIES NOTED IN THE INSPECTION REPORTS HAVE BEEN CORRECTED.
- FOR STEEL INSPECTIONS PER AISC 360 AND 341 (TABLE 2A):
QUALITY ASSURANCE (QA) IS REQUIRED FOR EACH ITEM IN TABLES UNLESS SPECIFICALLY NOTED OTHERWISE.
QUALITY CONTORL (QC) TO BE PROVIDED BY THE FABRICATOR, ERECTOR OR OTHER RESPONSIBLE CONTRACTOR AS APPLICABLE.
CONTRACTOR AND SPECIAL INSPECTOR TO DOCUMENT QUALITY CONTROL AS REQUIRED IN AISC 360 SECTION N3 AND AISC 341 SECTION J2.
- INSPECTION TYPES
CONTINUOUS : THE FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED.
PERIODIC : THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK.

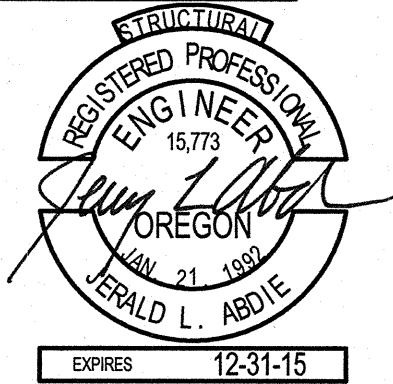
OBSERVE : OBSERVE THESE FUNCTIONS ON A RANDOM, DAILY BASIS. OPERATIONS NEED NOT BE DELAYED PENDING OBSERVATIONS.
PERFORM : INSPECTIONS SHALL BE PERFORMED PRIOR TO THE FINAL ACCEPTANCE OF THE ITEM.
- PERFORM INSPECTION PRIOR TO FINAL ACCEPTANCE OF THE ITEM FOR TEN WELDS TO BE MADE BY A GIVEN WELDER. WITH THE WELDER DEMONSTRATING UNDERSTANDING OF REQUIREMENTS AND POSSESSION OF SKILLS AND TOOLS TO VERIFY THESE ITEMS, THE PERFORM DESIGNATION OF THIS TASK SHALL BE REDUCED TO OBSERVE, AND THE WELDER SHALL PERFORM THIS TASK. SHOULD THE INSPECTOR DETERMINE THAT THE WELDER HAS DISCONTINUED PERFORMANCE OF THIS TASK, THE TASK SHALL BE RETURNED TO PERFORM UNTIL SUCH TIME AS THE INSPECTOR HAS RE-ESTABLISHED ADEQUATE ASSURANCE THAT THE WELDER WILL PERFORM THE INSPECTION TASKS LISTED
- SPECIAL INSPECTION OF MECHANICAL POST INSTALLED ANCHORS SHALL BE IN STRICT CONFORMANCE WITH THE ICC REPORT AND MANUFACTURERS INSTALLATION REQUIREMENTS. ANCHOR INSTALLERS SHALL BE QUALIFIED AS REQUIRED BY JURISDICTION
 - INSPECTION REPORTS SHALL IDENTIFY NAMES OF INSTALLERS.
 - SPECIAL INSPECTOR SHALL PROVIDE DOCUMENTATION AT THE END OF ANCHOR INSTALLATIONS STATING THAT THE ANCHORS WERE INSPECTED PER APPROVED ANCHOR EVALUATION REPORT.
- DOCUMENT (D): INDICATES CONTRACTOR AND SPECIAL INSPECTOR TO PROVIDE DOCUMENTATION IN ACCORDANCE WITH AISC 341.

CONTRACTOR RESPONSIBILITY:

THE CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF THE MAIN WIND-OR SEISMIC-FORCE-RESISTING SYSTEM, OR A WIND-OR SEISMIC-RESISTING COMPONENT LISTED IN TABLES 4, 4A, 5, 7, 7A, N2, AND N4 SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN THE FOLLOWING:

ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS.

- ACKNOWLEDGEMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL.
- PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING AND DISTRIBUTION OF THE REPORTS.
- IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.



Project Status
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STATEMENT OF SPECIAL INSPECTION
FERN RIDGE MIDDLE SCHOOL

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74-13107-30
04-29-2015
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STATEMENT OF SPECIAL INSPECTIONS AND TESTING

TABLE 2A - REQUIRED STRUCTURAL STEEL SPECIAL INSPECTIONS								
SYSTEM OR MATERIAL	INSPECTION						REMARKS	
	OSSC CODE REFERENCE	CODE OR STANDARD REFERENCE	INSPECTION (NOTES 5 AND 6)					
CONTINUOUS			PERIODIC	OBSERVE	PERFORM			
STEEL								
CONTRACTOR QUALITY CONTROL REQUIREMENTS		AISC 360 CHAPTER N			X	X	CONTRACTOR TO PROVIDE QUALITY CONTROL FOR ALL ITEMS INDICATED TO BE OBSERVE AND/OR PERFORM IN TABLE BELOW	
STEEL FABRICATION								
FABRICATION OF STRUCTURAL ELEMENTS	1704.2.5.2	AISC 360 N2		X			REFER TO INSPECTION OF FABRICATOR REQUIREMENTS	
MATERIAL VERIFICATION OF STRUCTURAL STEEL	1705.2.1 2203.1 TABLE 1705.2	ASTM A6 ASTM STANDARDS SPECIFIED IN CONSTRUCTION DOCUMENTS AISC 360 A3.1 AISC 360 N3.2		X			CERTIFIED MILL TEST REPORTS	
MATERIAL VERIFICATION OF HIGH STRENGTH BOLTS, NUTS, AND WASHERS		AISC 360 A3.3 AISC 360 N3.2 ASTM STANDARDS SPECIFIED IN CONSTRUCTION DOCUMENTS RCSC 2.1		X			MANUFACTURER'S CERTIFIED TEST REPORTS	
MATERIAL VERIFICATION OF ANCHOR BOLTS AND THREADED RODS		AISC 360 A3.4 AISC 360 N3.2 ASTM STANDARDS SPECIFIED IN CONSTRUCTION DOCUMENTS		X			MANUFACTURER'S CERTIFIED TEST REPORTS	
MATERIAL VERIFICATION OF WELD FILLER METALS	TABLE 1705.2	AISC 360 A3.5 AISC 360 N3.2 APPLICABLE AWS A5 DOCUMENTS		X			MANUFACTURER'S CERTIFIED TEST REPORTS	
STRUCTURAL STEEL WELDING								
VERIFYING USE OF PROPER WPS'S		AISC 360 N3.2					RETAIN A RECORD OF WELDING PROCEDURE SPECIFICATIONS	
VERIFYING WELDER QUALIFICATIONS	1705.2.2.1			X			RETAIN A RECORD OF QUALIFICATION CARDS	
COMPLETE AND PARTIAL JOINT PENETRATION GROOVE WELDS	TABLE 1705.2	AWS D1.1 SECTION 6	X				ALL WELDS VISUALLY INSPECTED PER AWS D1.16.9	
MULTIPASS FILLET WELDS			X					
SINGLE PASS FILLET WELDS GREATER THAN 5/16"			X					
PLUG AND SLOT WELDS			X					
SINGLE PASS FILLET WELDS LESS THAN OR EQUAL TO 5/16"				X				
WELDING STAIR AND RAILING SYSTEMS	1705.2(2.5)	AWS D1.1 SECTION 6		X			ALL WELDS VISUALLY INSPECTED PER AWS D1.1 6.9	
VERIFICATION OF FRAME JOINT DETAILS INCLUDING MEMBER AND COMPONENT LOCATIONS, BRACING, AND STIFFENERS	TABLE 1705.2	AISC 360 N5.7		X				
HIGH-STRENGTH BOLTING								
SNUG-TIGHT HIGH STRENGTH BOLT INSTALLATION	1705.2.1	RCSC SPECIFICATION		X			ALL CONNECTIONS VISUALLY INSPECTED AND VERIFIED SNUG	
INSPECTION TASKS PRIOR TO BOLTING	1705.2	FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS SECTION 9 AISC 360 SECTION M2.5				X		
MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS								
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS					X			
PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH, IF THREADS ARE TO BE EXCLUDED FROM THE SHEAR PLANE)					X			
PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL					X			
CONNECTING ELEMENTS< INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS					X			
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED					X			
PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS					X			
INSPECTION TASKS DURING BOLTING								
FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED			1705.2	AISC 360 TABLE N5.6-2 RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS SECTION 9			X	
FASTENERS BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION					X			
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING					X			
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES					X			
INSPECTION TASKS AFTER BOLTING								
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	1705.2	AISC 360 TABLE N5.6-3				X		

TABLE 4 - REQUIRED SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE					
SYSTEM OR MATERIAL	OSSC CODE REFERENCE	CODE OR STANDARD REFERENCE	INSPECTION		REMARKS
			FREQUENCY (NOTE 6)		
			CONTINUOUS	PERIODIC	
GENERAL					
DESIGNATED SEISMIC LOAD-RESISTING SYSTEMS (SLRS)	1704.3.2 1705.11				REFERENCE GENERAL STRUCTURAL NOTES FOR OUTLINE OF (SLRS) SYSTEM. REFERENCE TABLE 4 FOR MATERIAL SPECIFIC INSPECTIONS REQUIREMENTS
WOOD					
CONNECTIONS FOR DIAPHRAGM CHORDS, COLLECTORS, BRACING, AND SHEAR WALL ANCHORAGE AND HOLDOWNS				X	ALL FASTENERS/CONNECTIONS VISUALLY INSPECTED
FASTENING OF DIAPHRAGM AND SHEAR WALL SHEATHING WITH EDGE NAILING ≤ 4"				X	FOR WOOD SHEAR WALLS, SHEAR PANELS, AND DIAPHRAGMS. THIS INCLUDES NAILING, BOLTING, ANCHORING AND OTHER FASTENING TO OTHER COMPONENTS IN THE SEISMIC FORCE RESISTING SYSTEM

TABLE 5 - REQUIRED SPECIAL INSPECTIONS FOR WIND RESISTANCE					
SYSTEM OR MATERIAL	OSSC CODE REFERENCE	CODE OR STANDARD REFERENCE	INSPECTION		REMARKS
			FREQUENCY (NOTE 6)		
			CONTINUOUS	PERIODIC	
WOOD					
NAILING, BOLTING, ANCHORING, AND OTHER FASTENING OF COMPONENTS WITHIN THE MAIN WIND-FORCE RESISTING SYSTEM, INCLUDING WOOD SHEAR WALLS, WOOD DIAPHRAGMS, COLLECTORS, BRACES, AND HOLDOWNS	1705.10.1			X	SPECIAL INSPECTIONS ARE NOT REQUIRED FOR WOOD SHEAR WALLS AND DIAPHRAGMS WHERE FASTENER SPACING IS MORE THAN 4 INCHES ON CENTER. REFER TO TABLE 2 FOR MATERIAL SPECIFIC REQUIREMENTS
FIELD GLUING OPERATIONS OF ELEMENTS OF MAIN WIND-FORCE-RESISTING SYSTEM.	1705.10.1		X		
GENERAL					
ROOF CLADDING AND WALL CLADDING	1705.10.3			X	

TESTING

TABLE 6 - REQUIRED TESTING FOR SPECIAL INSPECTIONS					
SYSTEM OR MATERIAL	INSPECTION			REMARKS	
	OSSC CODE REFERENCE	CODE OR STANDARD REFERENCE	FREQUENCY (NOTE 6)		
			CONTINUOUS		PERIODIC
GEOTECHNICAL					
FILL IN-PLACE DENSITY OR PREPARED SUBGRADE DENSITY	1705.6	VARIES; GEOTECHNICAL REPORT OR MINIMUM PER IBC APPENDIX J107.5, WHICHEVER IS GREATER		X	BY THE GEOTECHNICAL ENGINEER
MATERIAL VERIFICATION		VARIES; CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS		X	BY THE GEOTECHNICAL ENGINEER
CONCRETE					
CONCRETE STRENGTH	1705.3	ASTM C39	EACH 150 CY NOR LESS THAN EACH 5000 SF OF SLAB OR WALL PLACED EACH SHIFT		FABRICATE SPECIMENS AT TIME FRESH CONCRETET IS PLACED
CONCRETE SLUMP	ASTM C172	ASTM C143			
CONCRETE AIR CONTENT	ASTM C 31	ASTM C231			
CONCRETE TEMPERATURE	ACI318:5.6,5.8	ASTM C1064			

STRUCTURAL
REGISTERED PROFESSIONAL
ENGINEER
15,773
JUN 1 2015
OREGON
SERIAL D. L. ABUE

EXPIRES 12-31-15

Project Status
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STATEMENT OF SPECIAL INSPECTION
FERN RIDGE MIDDLE SCHOOL

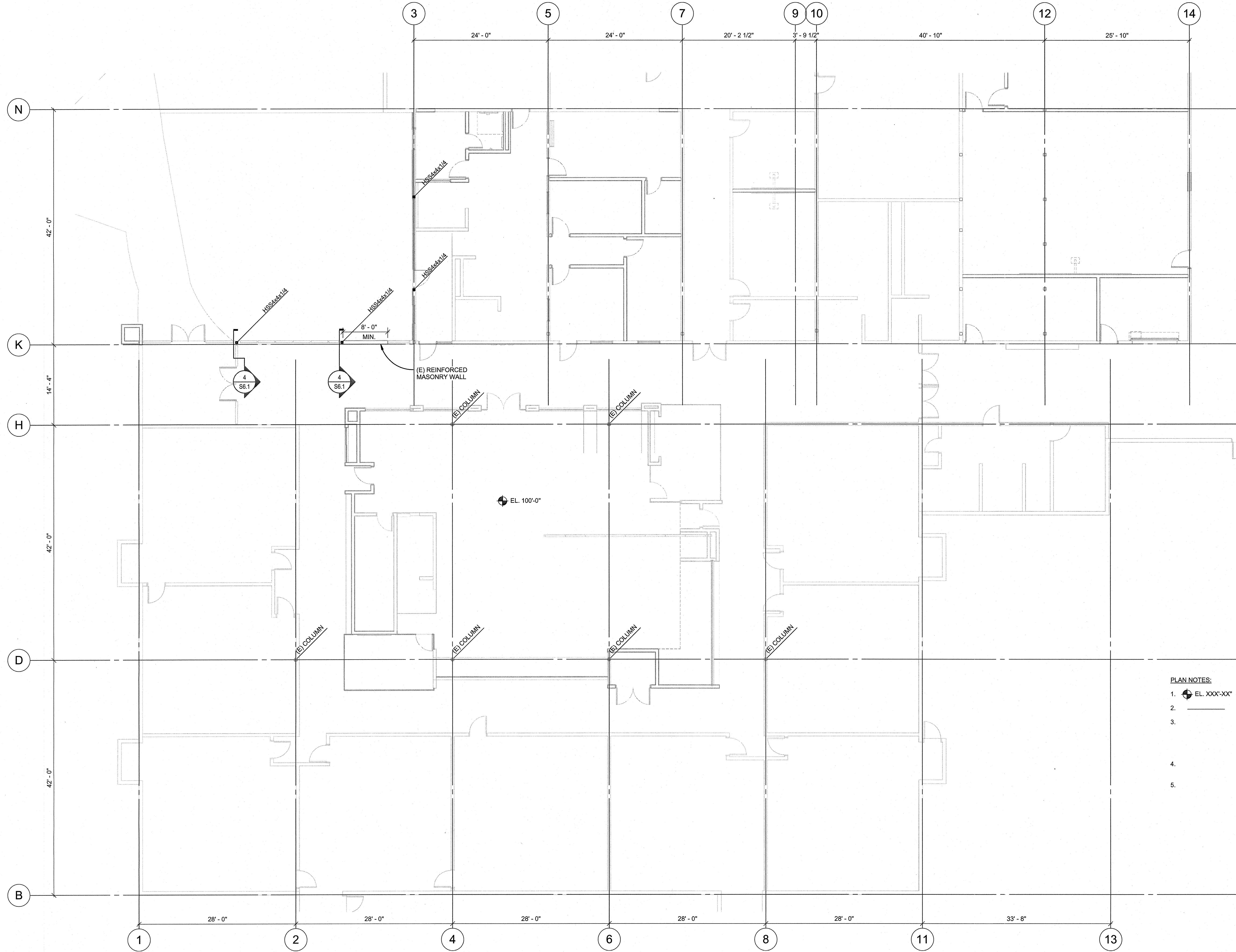
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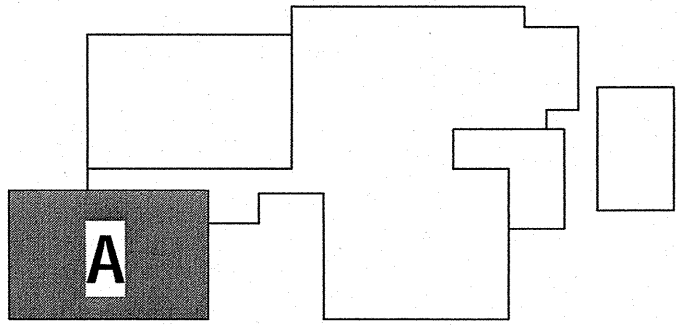
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- PLAN NOTES:
1. EL. XXX'-XX" INDICATES TOP OF SLAB ELEVATION.
 2. INDICATES ARCH. BACKGROUND.
 3. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS PRIOR TO FABRICATION AND ERECTION. NOTIFY ARCHITECT OF ANY SIGNIFICANT DISCREPANCIES FROM THAT SHOWN ON THE DRAWINGS.
 4. CONTRACTOR TO SHORE ALL EXISTING FRAMING AS REQUIRED FOR DEMOLITION AND RE-FRAMING WORK.
 5. ALL EXPOSED FRAMING LUMBER SHALL BE INSPECTED FOR CRACKS AND DAMAGE BY THE CONTRACTOR AND FINDINGS REPORTED TO THE ARCHITECT.

KEY PLAN



1 FOUNDATION PLAN, FIRST LEVEL - AREA A
1/8" = 1'-0"



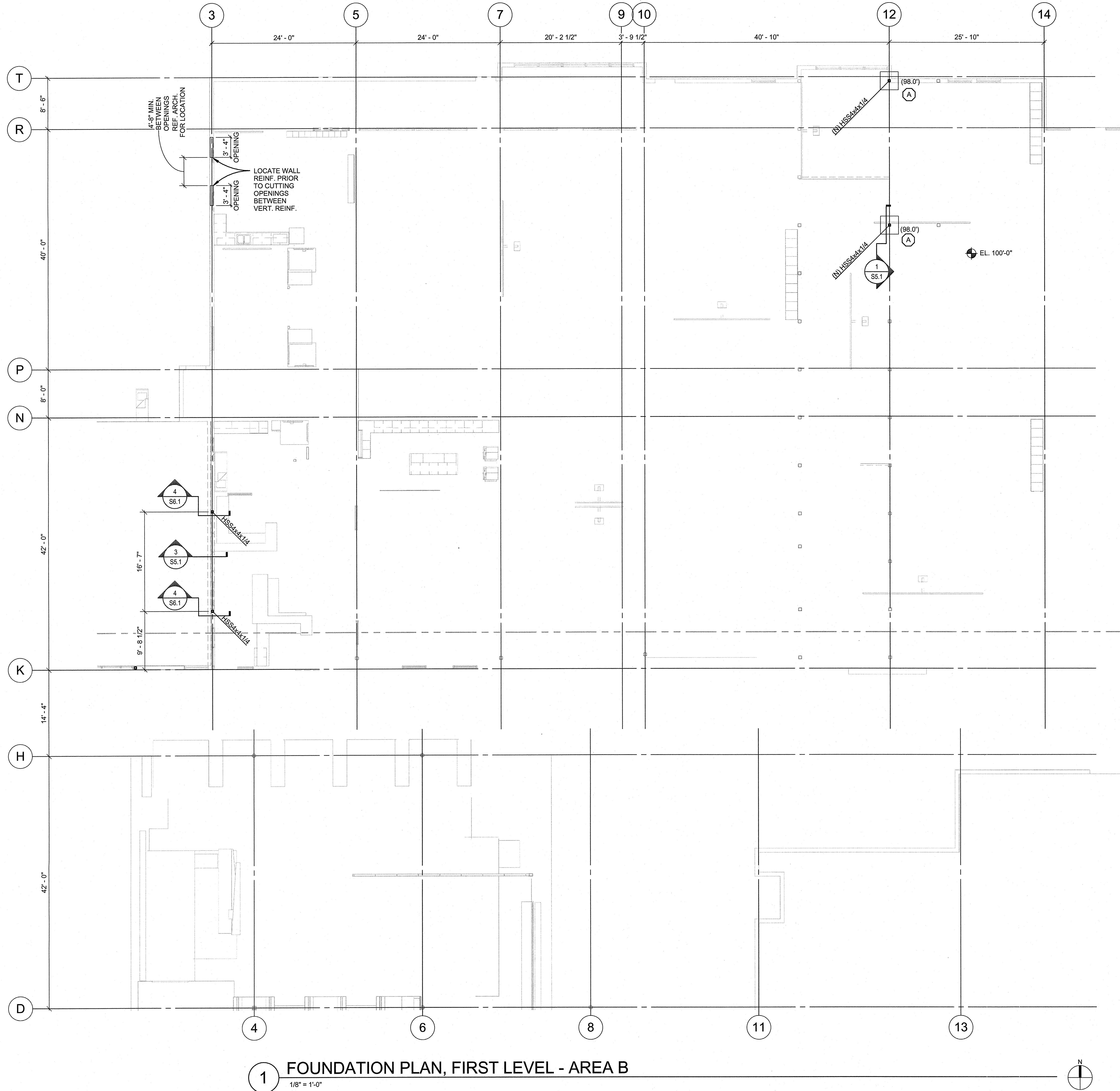
Project Status
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FOUNDATION PLAN, FIRST LEVEL - AREA A
FERN RIDGE MIDDLE SCHOOL

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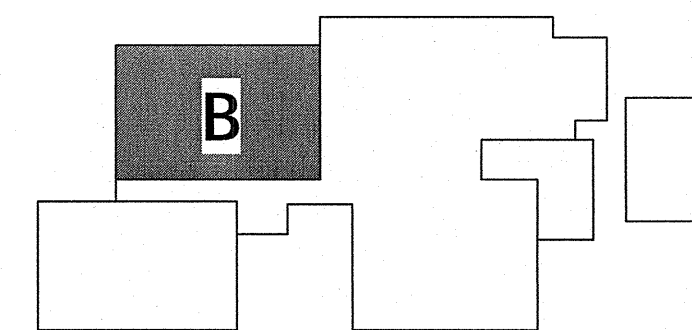
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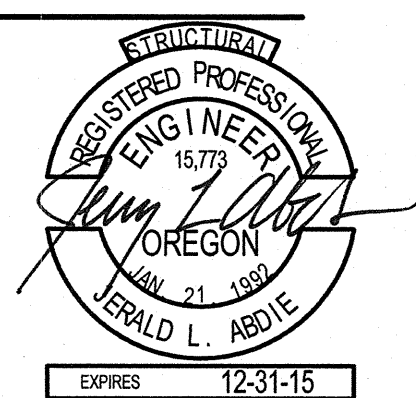
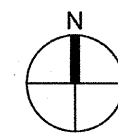


- PLAN NOTES:
1. EL. XXX'-XX" INDICATES TOP OF SLAB ELEVATION.
 2. INDICATES ARCH. BACKGROUND.
 3. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS PRIOR TO FABRICATION AND ERECTION. NOTIFY ARCHITECT OF ANY SIGNIFICANT DISCREPANCIES FROM THAT SHOWN ON THE DRAWINGS.
 4. CONTRACTOR TO SHORE ALL EXISTING FRAMING AS REQUIRED FOR DEMOLITION AND RE-FRAMING WORK.
 5. ALL EXPOSED FRAMING LUMBER SHALL BE INSPECTED FOR CRACKS AND DAMAGE BY THE CONTRACTOR AND FINDINGS REPORTED TO THE ARCHITECT.
 6. INDICATES FOOTING TYPE. REF. 2/S5.1 FOR SCHEDULE.
 7. (XXX'.XX') INDICATES BOTTOM OF FOOTING ELEVATION.
 8. (N) INDICATES NEW

KEY PLAN



1 FOUNDATION PLAN, FIRST LEVEL - AREA B
1/8" = 1'-0"



Project Status
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FOUNDATION PLAN, FIRST LEVEL - AREA B FERN RIDGE MIDDLE SCHOOL

S1.2

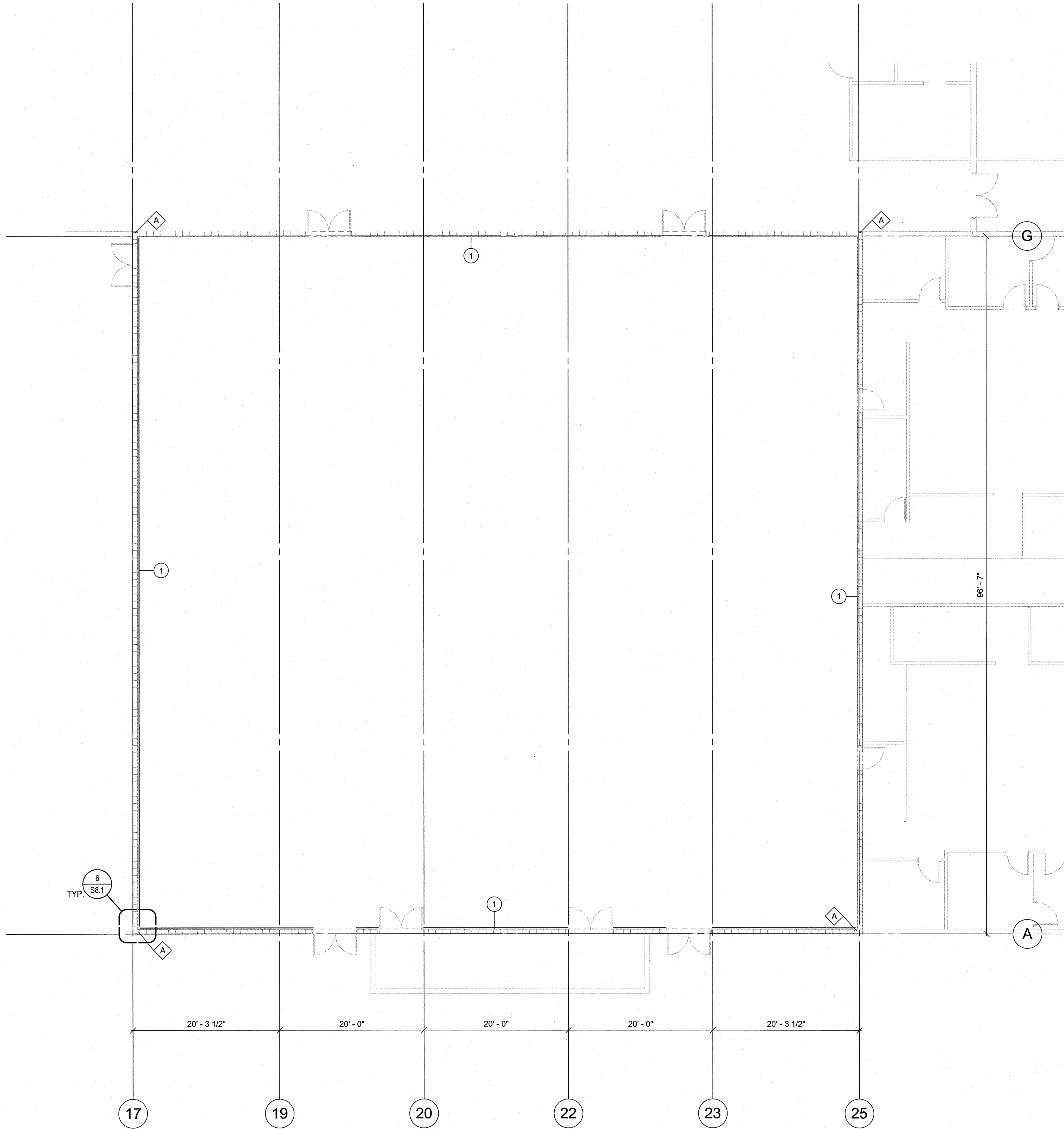
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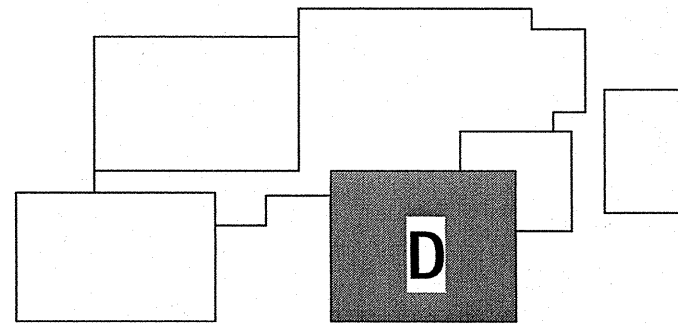
1 GYMNASIUM FLOOR LEVEL
1/8" = 1'-0"



PLAN NOTES:

1. INDICATES (E) 2x8 @16" o.c. TIMBER STUD WALL BLOCKED @ 2'-0" o.c. w/ 3/4" FIBER BOARD OR DIAGONAL SHEATHING. ADD (N) PLYWOOD SHEATHING. REF. SCHEDULE 1/S8.1.
2. INDICATES LOCATION OF HOLDOWN. REF. HOLDOWN SCHEDULE 4/S8.1. REF. 6/S8.1 FOR HOLDOWNS AT CORNERS.
3. INDICATES ARCH. BACKGROUND.
4. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS PRIOR TO FABRICATION AND ERECTION. NOTIFY ARCHITECT OF ANY SIGNIFICANT DISCREPANCIES FROM THAT SHOWN ON THE DRAWINGS.
5. CONTRACTOR TO SHORE ALL EXISTING FRAMING REQUIRED FOR DEMOLITION AND RE-FRAMING WORK.
6. ALL EXPOSED FRAMING LUMBER SHALL BE INSPECTED FOR CRACKS AND DAMAGE BY THE CONTRACTOR AND FINDINGS REPORTED TO THE ARCHITECT.

KEY PLAN



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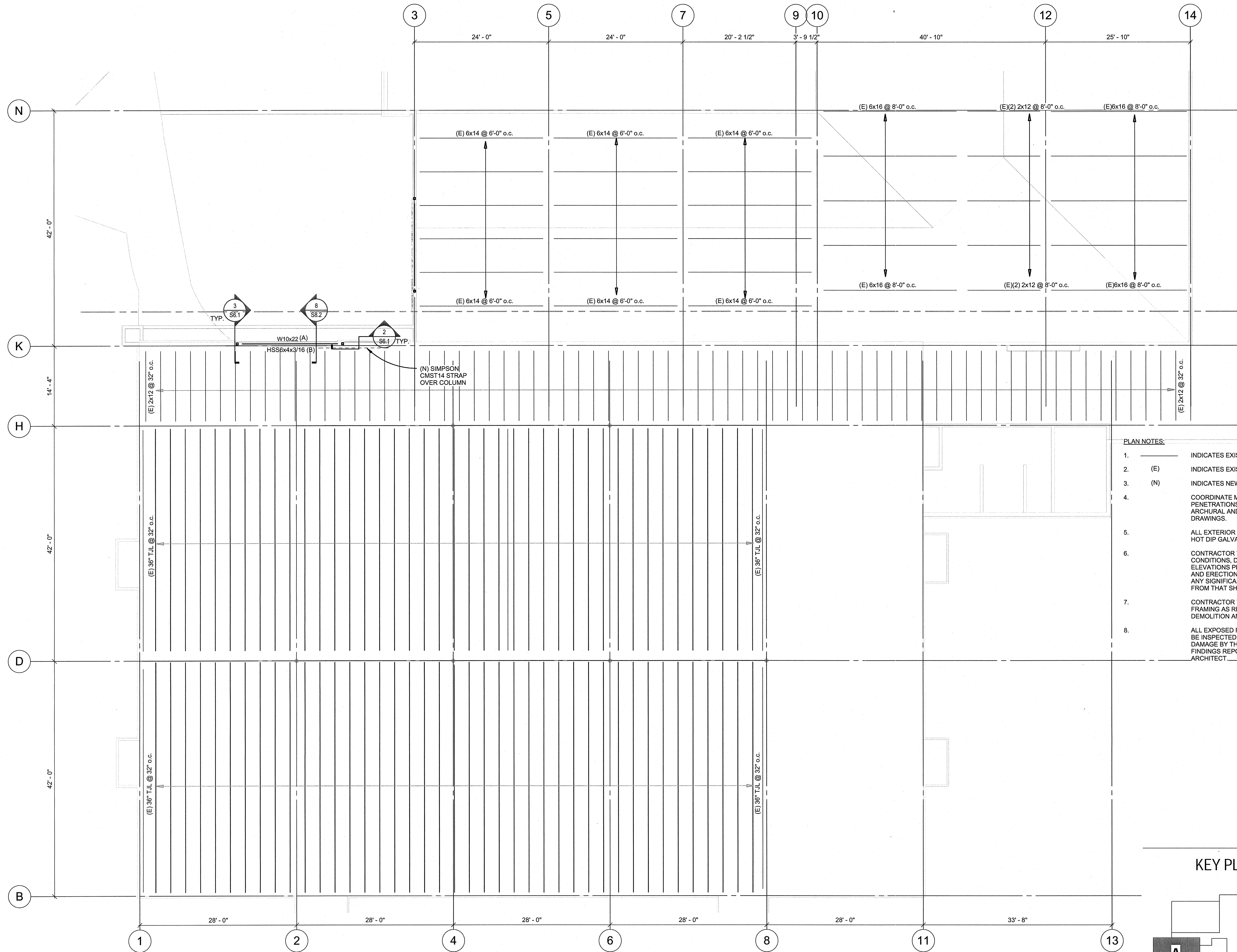
GYMNASIUM FLOOR PLAN
FERN RIDGE MIDDLE SCHOOL

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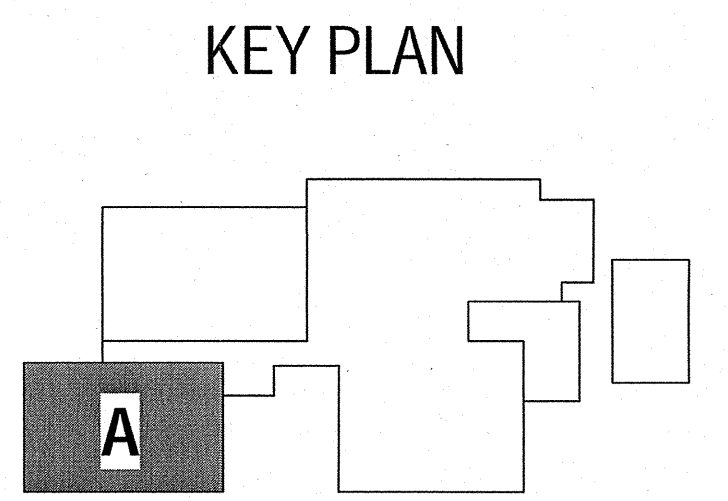
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- PLAN NOTES:**
- INDICATES EXISTING STRUCTURE.
 - (E) INDICATES EXISTING.
 - (N) INDICATES NEW.
 - COORDINATE MECHANICAL PENETRATIONS WITH ARCHITURAL AND MECHANICAL DRAWINGS.
 - ALL EXTERIOR EXPOSED STEEL TO BE HOT DIP GALVANIZED.
 - CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS PRIOR TO FABRICATION AND ERECTION. NOTIFY ARCHITECT OF ANY SIGNIFICANT DISCREPANCIES FROM THAT SHOWN ON THE DRAWINGS.
 - CONTRACTOR TO SHORE ALL EXISTING FRAMING AS REQUIRED FOR DEMOLITION AND RE-FRAMING WORK.
 - ALL EXPOSED FRAMING LUMBER SHALL BE INSPECTED FOR CRACKS AND DAMAGE BY THE CONTRACTOR AND FINDINGS REPORTED TO THE ARCHITECT.



1 ROOF FRAMING - AREA A
1/8" = 1'-0"

Project Status
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FOOR FRAMING PLAN , FIRST LEVEL - AREA A
FERN RIDGE MIDDLE SCHOOL

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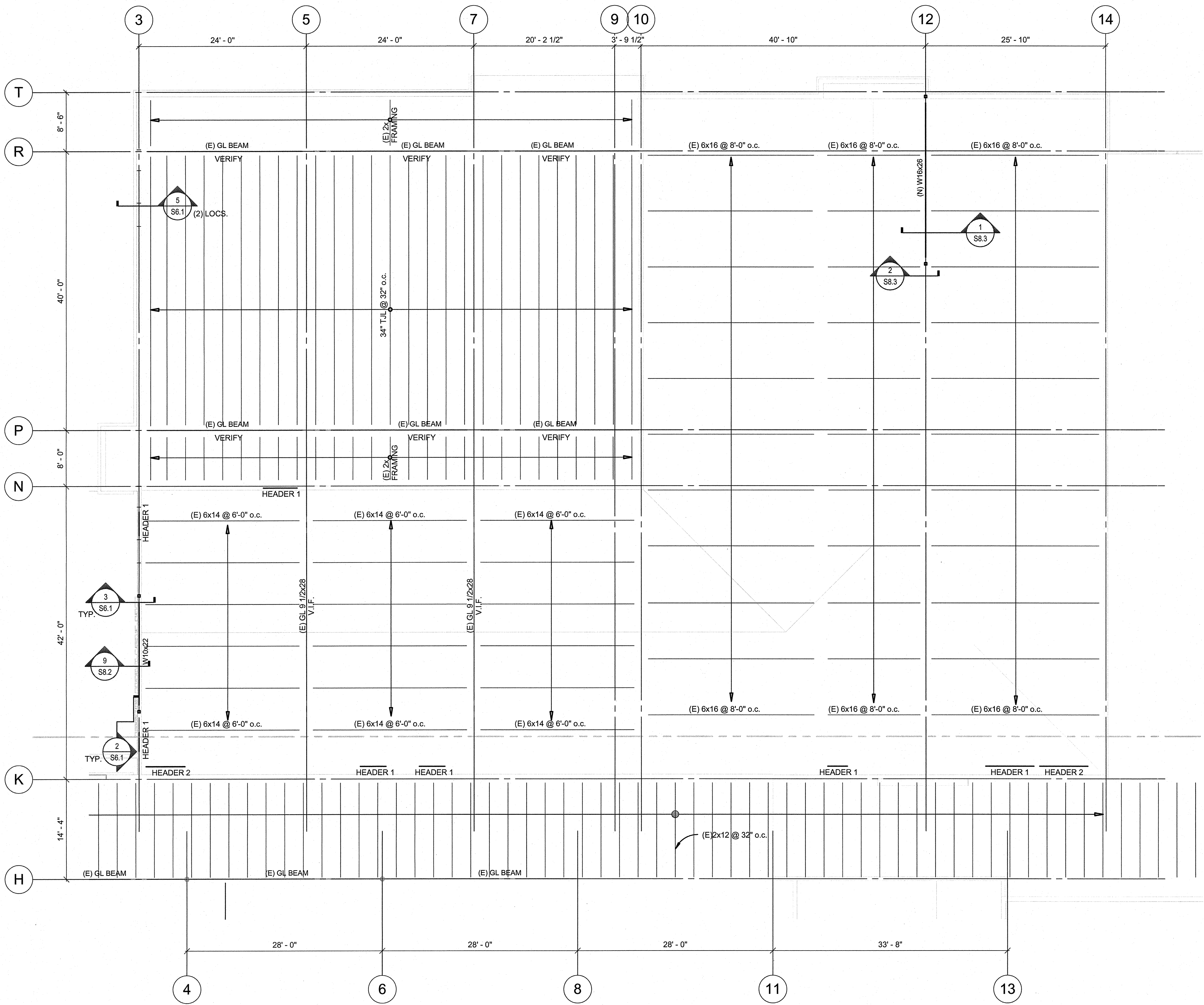
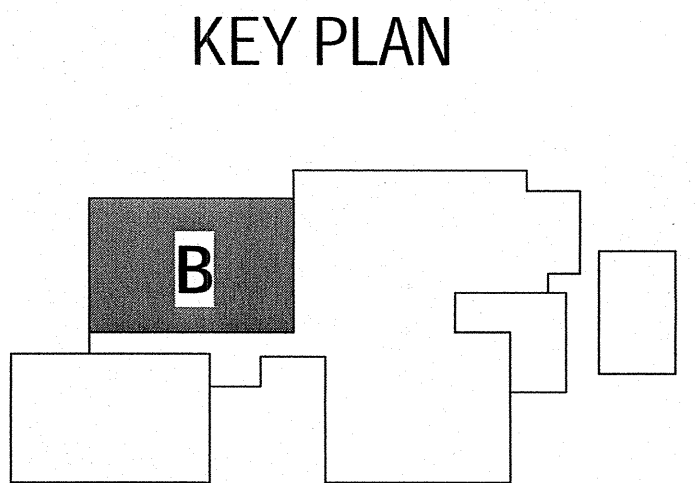
ROOF FRAMING PLAN, FIRST LEVEL - AREA B

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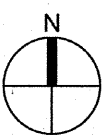
PLAN NOTES:

- | | | |
|----|-------|---|
| 1. | _____ | INDICATES EXISTING STRUCTURE. |
| 2. | (E) | INDICATES EXISTING. |
| 3. | (N) | INDICATES NEW. |
| 4. | | COORDINATE MECHANICAL PENETRATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. |
| 5. | | ALL EXTERIOR EXPOSED STEEL TO BE HOT DIP GALVANIZED. |
| 6. | _____ | CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS PRIOR TO FABRICATION AND ERECTION. NOTIFY ARCHITECT OF ANY SIGNIFICANT DISCREPANCIES FROM THAT SHOWN ON THE DRAWINGS. |
| 7. | | CONTRACTOR TO SHORE ALL EXISTING FRAMING AS REQUIRED FOR DEMOLITION AND RE-FRAMING WORK. |
| 8. | | ALL EXPOSED FRAMING LUMBER SHALL BE INSPECTED FOR CRACKS AND DAMAGE BY THE CONTRACTOR AND FINDINGS REPORTED TO THE ARCHITECT. |
| 9. | | REF. 9/S8.1 FOR FRAMING AT NEW OPENINGS IN EXISTING TIMBER FRAMED WALLS. |

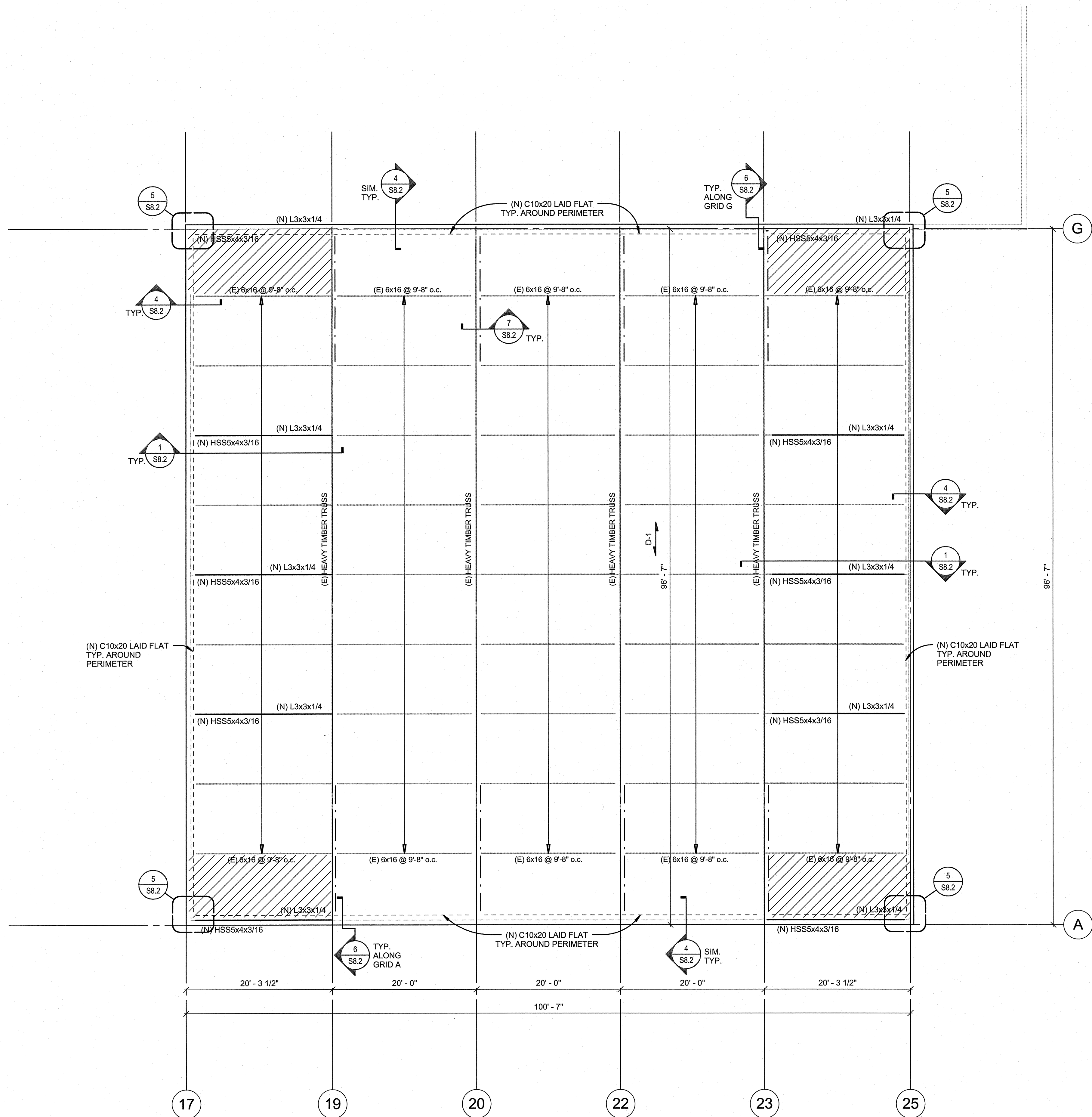
KEY PLAN

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ROOF FRAMING PLAN - AREA B

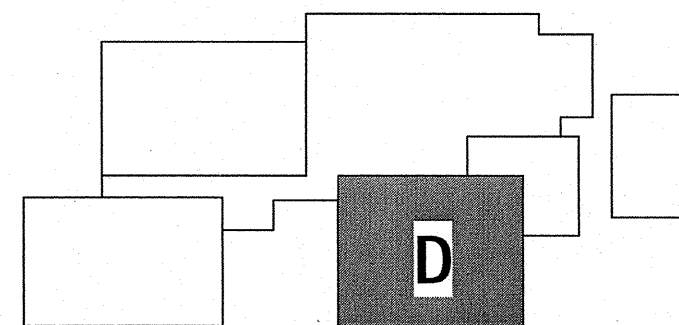
$$1/8'' = 1'-0''$$


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- PLAN NOTES:**
- INDICATES SPAN DIRECTION OF (E) 2x6 T & G DECKING w/ (N) 1/2" PLYWOOD SHEATHING w/ 0.131"Øx2" NAILS AT 6" o.c. AROUND PERIMETER AND AT 12" o.c. IN THE FIELD.
 - INDICATES PLYWOOD SHEATHING TO BE NAILED w/ 0.131"Øx2" NAILS @ 4'-0" o.c. AROUND PERIMETER AND 12" o.c. IN THE FIELD.
 - INDICATES EXTENT OF 2x BLOCKING. REF. 7/S8.2.
 - INDICATES EXISTING STRUCTURE.
 - (E) INDICATES EXISTING.
 - (N) INDICATES NEW.
 - COORDINATE MECHANICAL PENETRATIONS WITH ARCHITURAL AND MECHANICAL DRAWINGS.
 - ALL EXTERIOR EXPOSED STEEL TO BE HOT DIP GALVANIZED.
 - CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS PRIOR TO FABRICATION AND ERECTION. NOTIFY ARCHITECT OF ANY SIGNIFICANT DISCREPANCIES FROM THAT SHOWN ON THE DRAWINGS.
 - CONTRACTOR TO SHORE ALL EXISTING FRAMING AS REQUIRED FOR DEMOLITION AND RE-FRAMING WORK.
 - ALL EXPOSED FRAMING LUMBER SHALL BE INSPECTED FOR CRACKS AND DAMAGE BY THE CONTRACTOR AND FINDINGS REPORTED TO THE ARCHITECT.

KEY PLAN



1 GYMNASIUM ROOF FRAMING PLAN
1/8" = 1'-0"

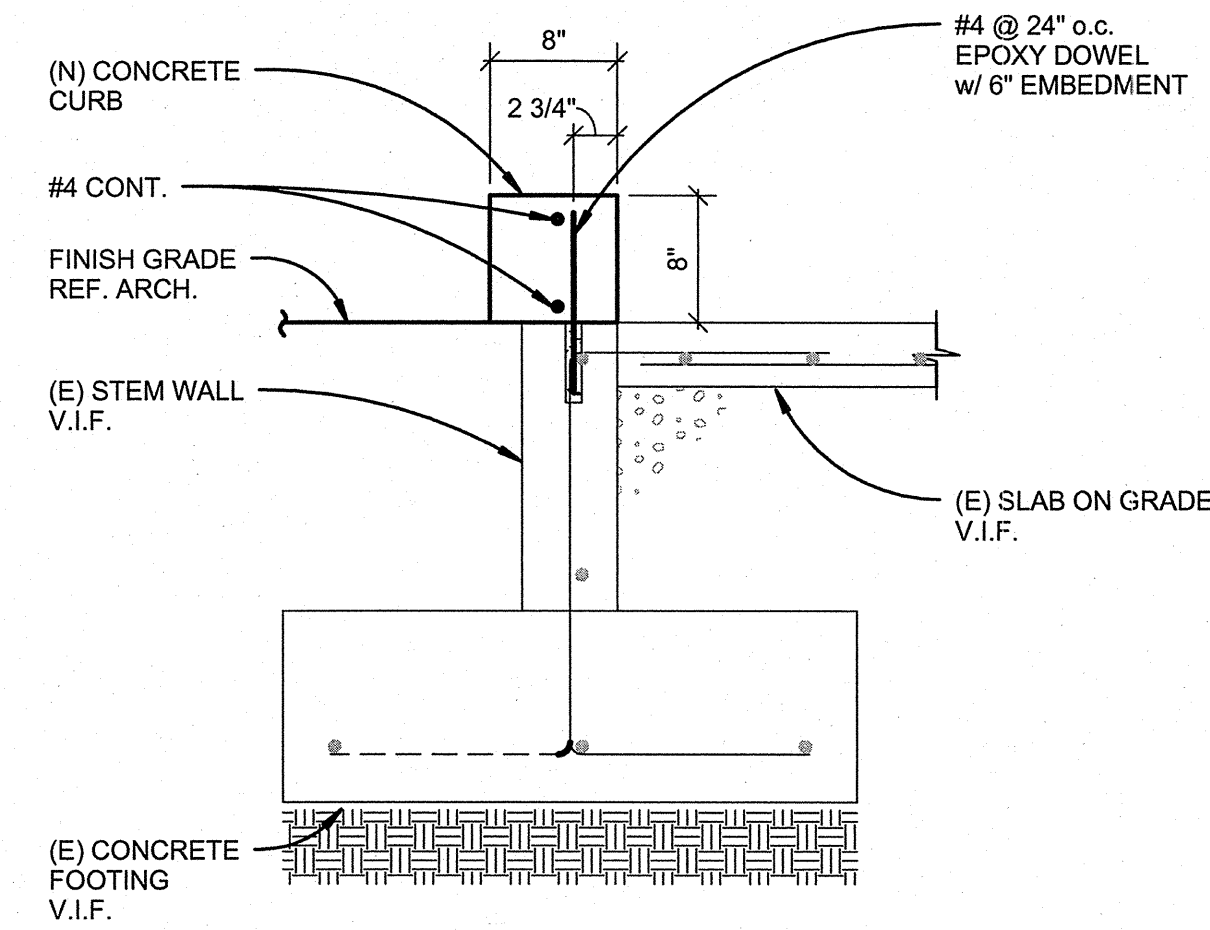


Project Status
PERMIT/BID ISSUE

GYMNASIUM ROOF FRAMING PLAN FERN RIDGE MIDDLE SCHOOL

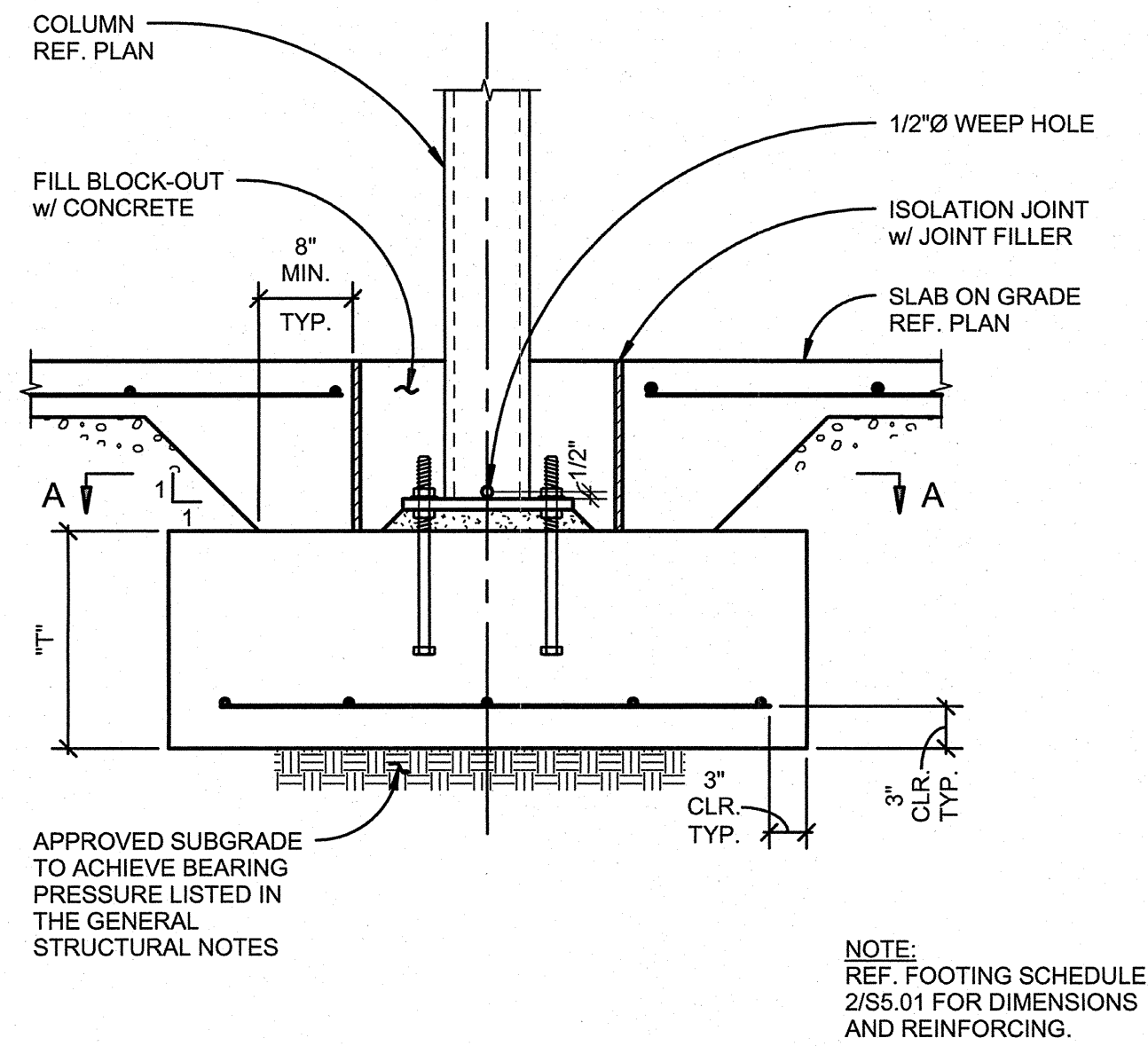
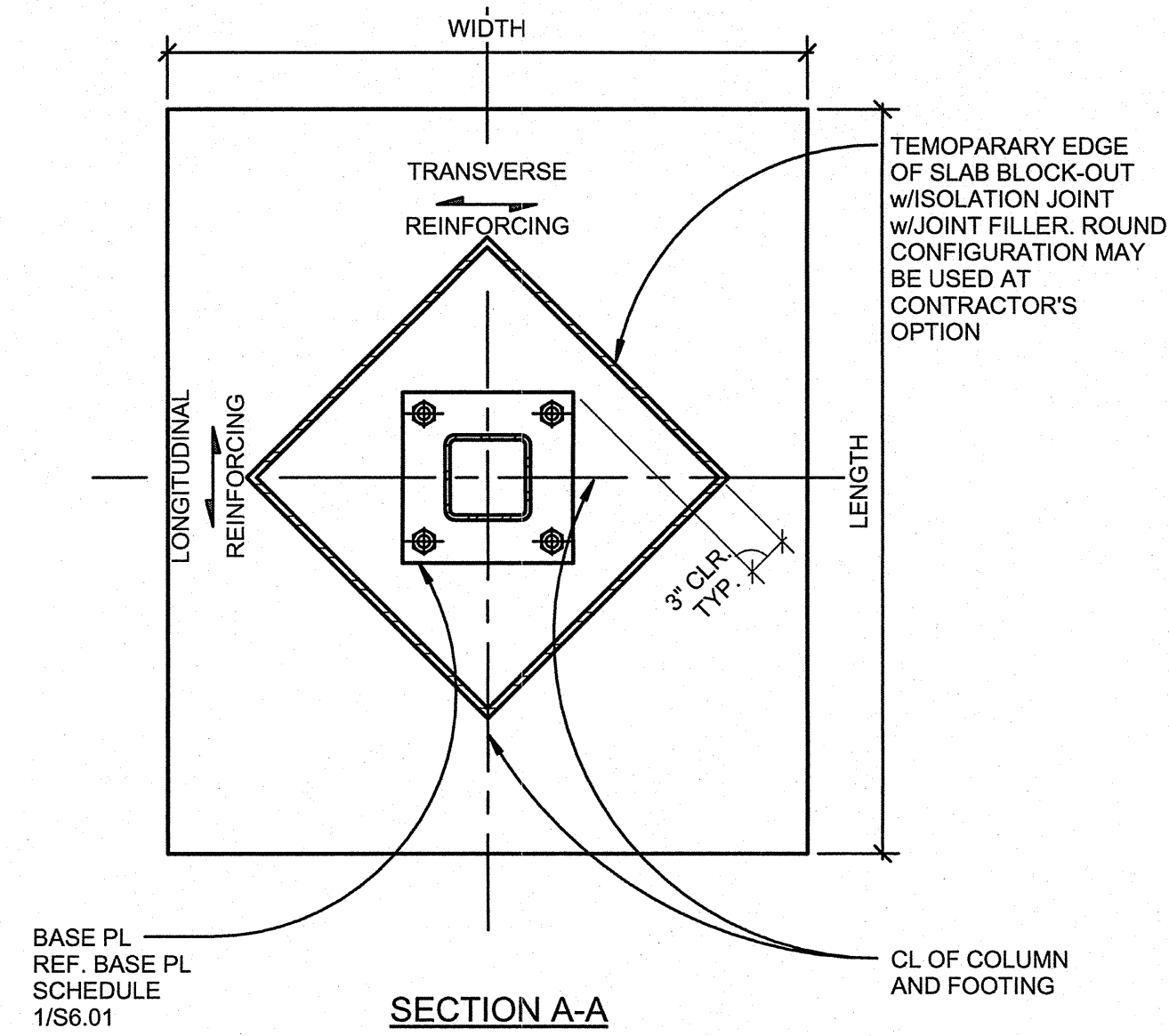
S4.4
74-13107-30
04.28.2015
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3 CONCRETE CURB DETAIL

1" = 1'-0" S1.2



1 FOOTING DETAIL AT STEEL COLUMN

1" = 1'-0" S1.2

FOOTING SCHEDULE			
MARK	SIZE LENGTHxWIDTH	"T"	REINFORCING
A	3'-0"x3'-0"	1'-0"	(3) #5 EACH WAY

2 TYPICAL FOOTING SCHEDULE

1" = 1'-0"

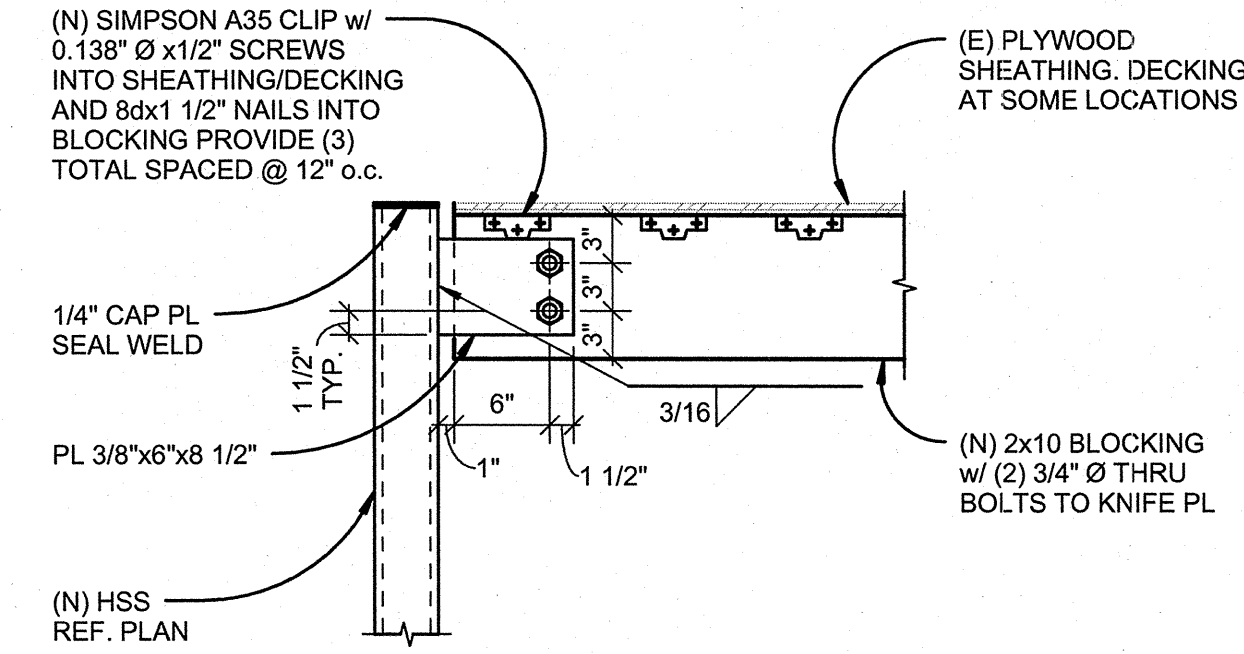
Project Status
PERMIT/BID ISSUE

CONCRETE DETAILS
FERN RIDGE MIDDLE SCHOOL

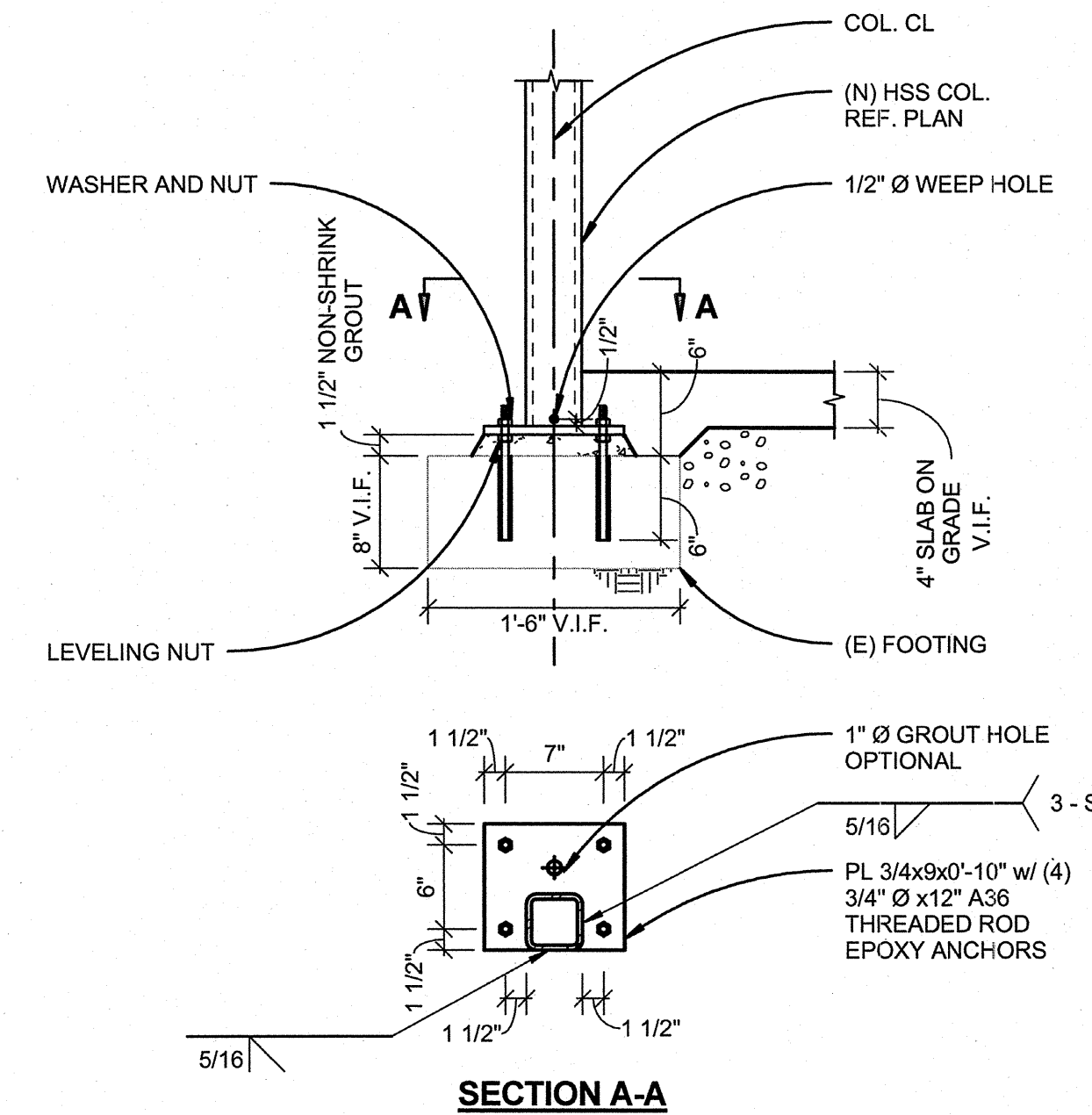
S5.1
74-13107-30
04.29.2015
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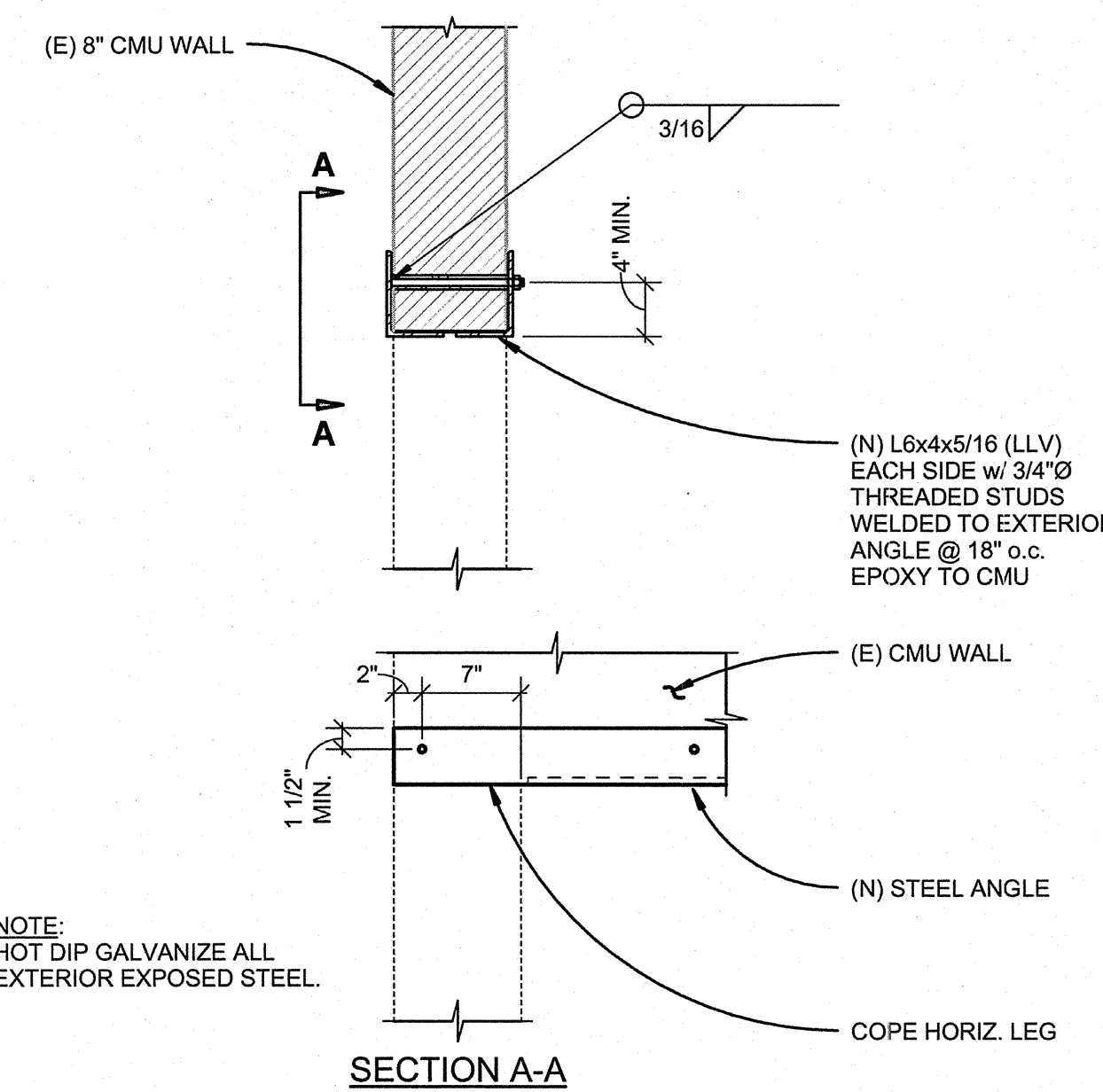
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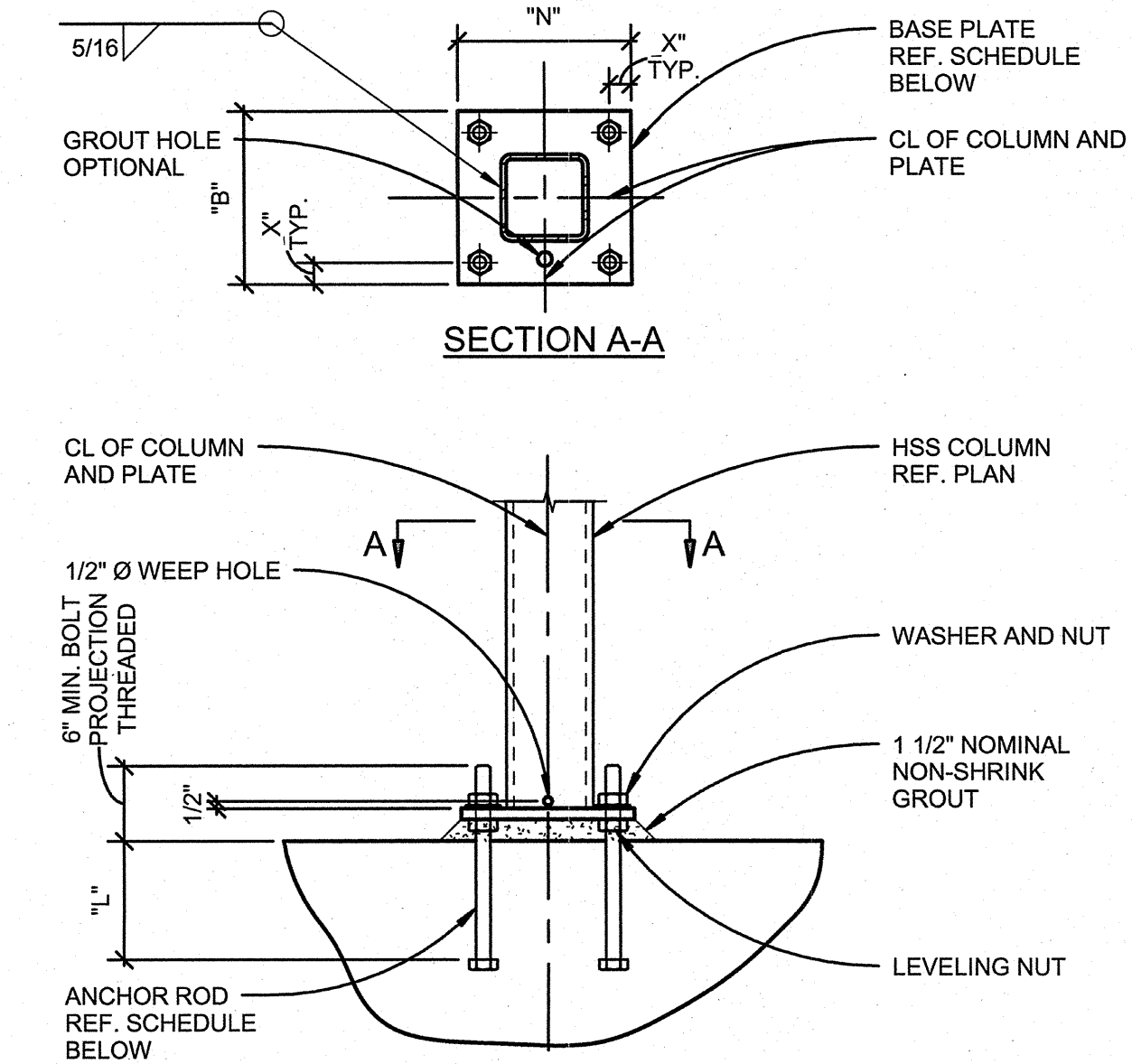
3 TOP OF COLUMN CONNECTION
1" = 1'-0" S4.1



4 COLUMN BASE PLATE
1" = 1'-0" S1.1



5 LINTEL ATTACHMENT
1" = 1'-0" S4.2



TYP. GRAVITY COLUMN
BASE PLATE SCHEDULE

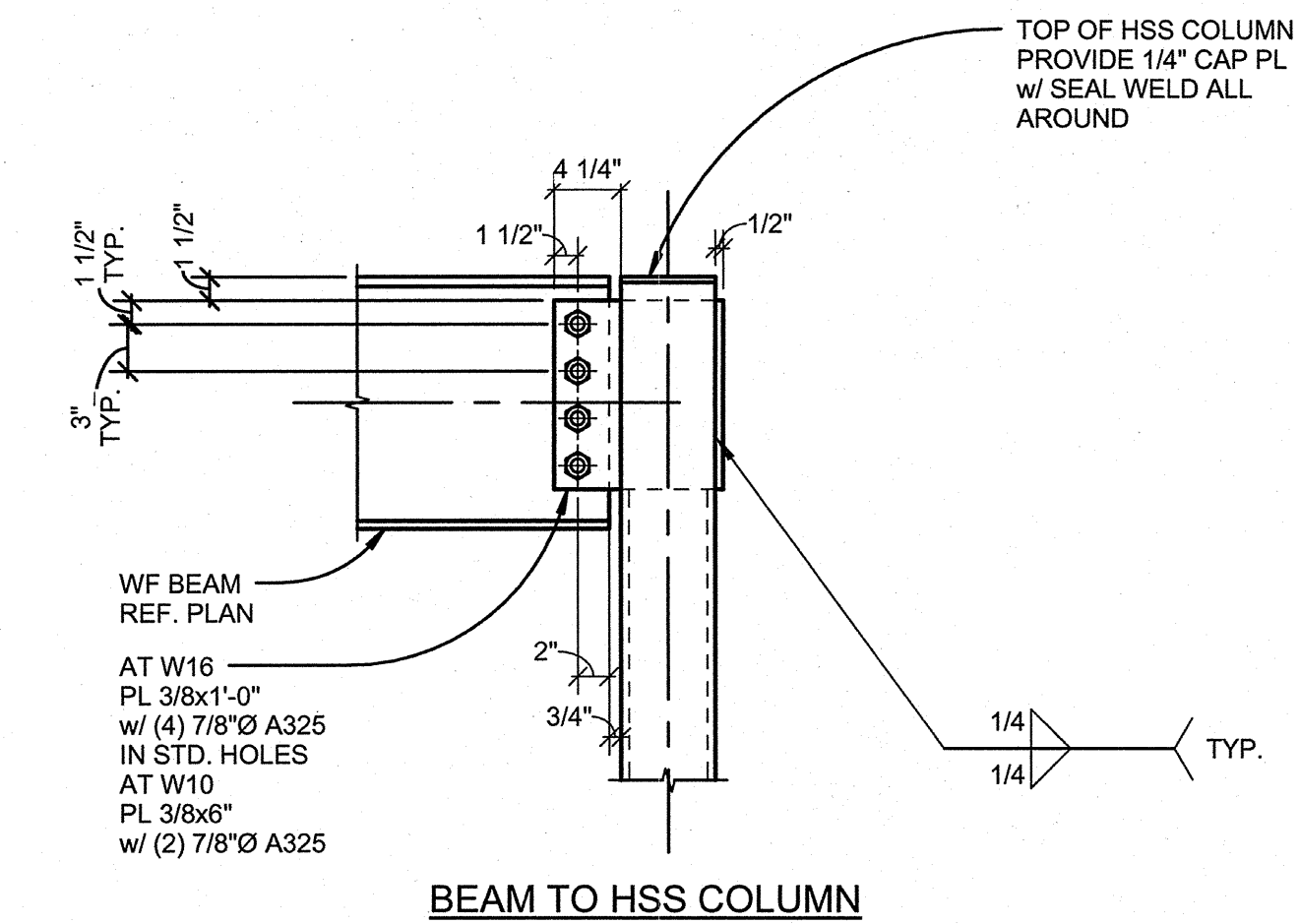
COLUMN SIZE	N (IN.)	B (IN.)	T (IN.)	X (IN.)	xL (IN.)	ANCHOR RODS (NO.) DIAMETER
HSS4x4	10	10	3/4	1 1/2	9	(4) 7/8"Ø

NOTES:

- ANCHOR RODS SHALL BE HEADED ASTM F1554 GRADE 36 U.N.O. THREADED ROD MAY BE USED AT CONTRACTOR'S OPTION PROVIDED THAT NUT IS TACK WELDED TO ROD.
- ANCHOR ROD HOLE DIAMETERS (dh) SHALL BE AS FOLLOWS:
 $db \leq 1"$: $dh = db + 5/16"$
 $1" < db \leq 2"$: $dh = db + 1/2"$
 $db > 2"$: $dh = db + 1"$
- PROVIDE MILL FINISH AT BOTTOM OF COLUMN AND TOP OF BASE PL.
- ACCEPTABLE TO SLOT HOLES RADIALLY TO ALLOW FOR CONSTRUCTION TOLERANCE.
- SQUARE OR CIRCULAR PLATE WASHERS SHALL BE USED (ASTM 36) WHERE HOLES ARE SLOTTED OR OVERSIZED. MINIMUM WASHER SIZES SHALL BE IN ACCORDANCE WITH AISI TABLE 14-2

TYPICAL GRAVITY
COLUMN BASE PLATE SCHEDULE

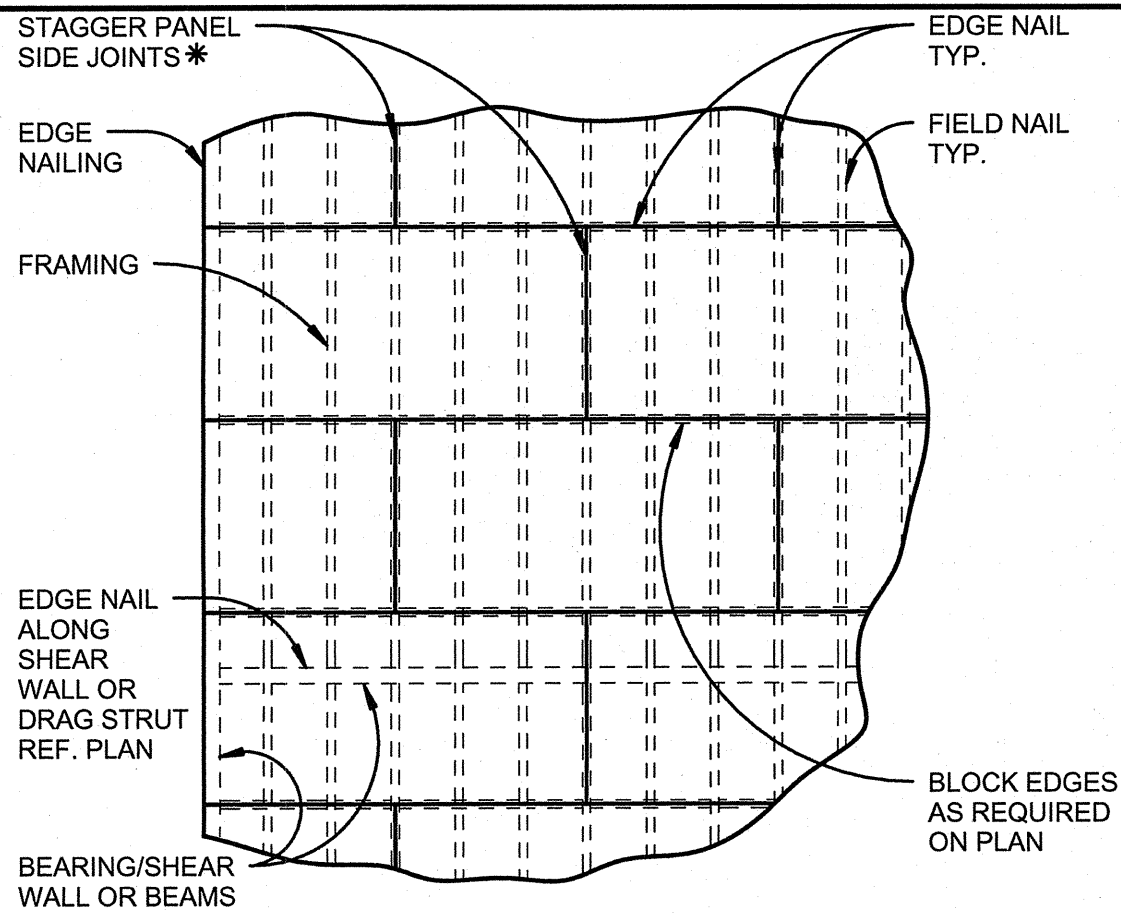
1" = 1'-0"



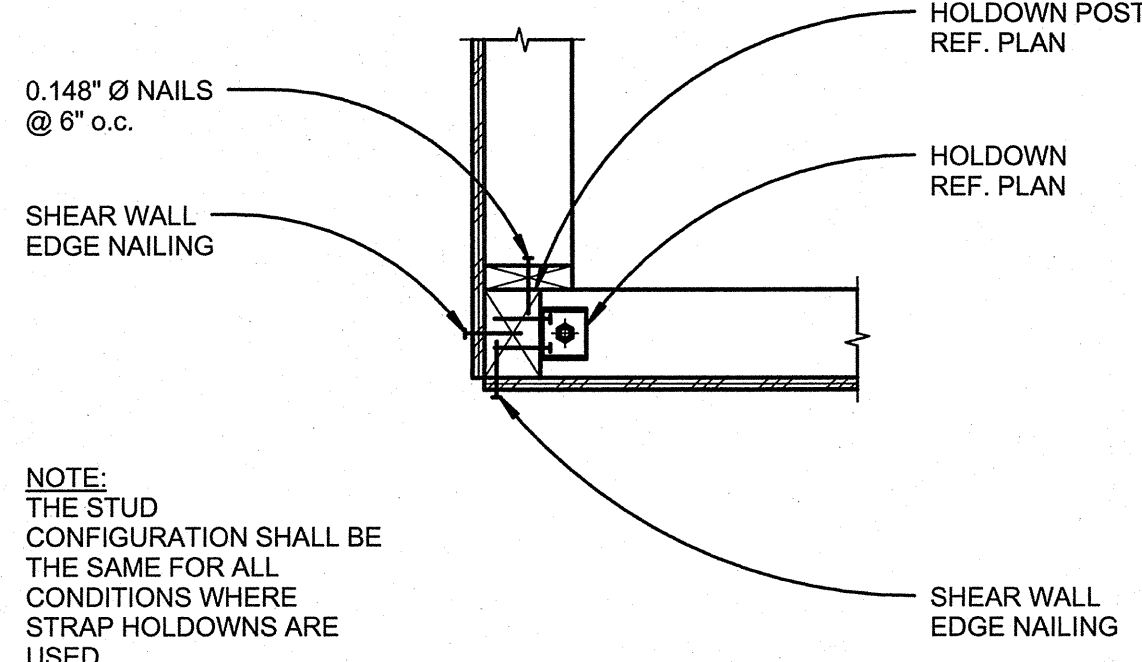
TYPICAL BOLTED
WF BEAM TO HSS COLUMN

1" = 1'-0"

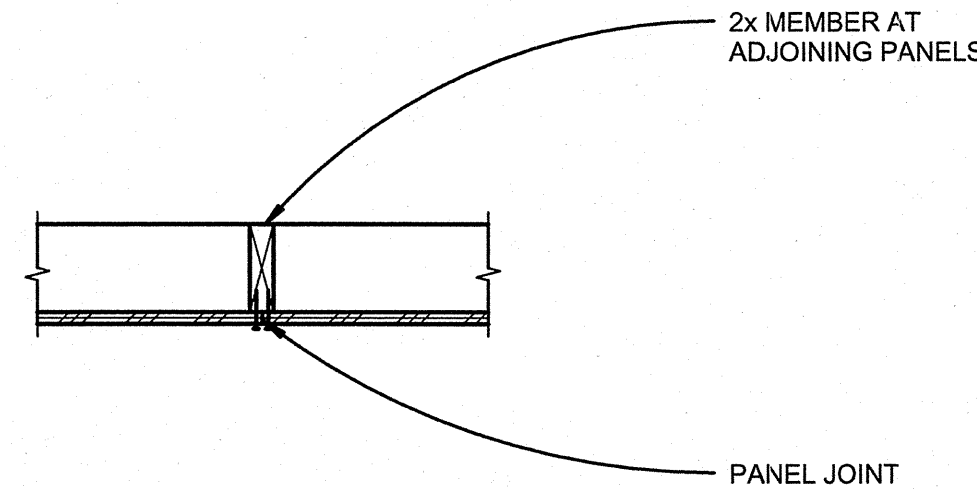
S4.1



- NOTES:
1. * PROVIDE 1/8" GAP AT ALL PANEL JOINTS. REF. GENERAL STRUCTURAL NOTES FOR ADDITIONAL INFORMATION.
 2. PANELS SHALL NOT BE LESS THAN 4'-0"x8'-0" EXCEPT AT BOUNDARIES AND CHANGES IN FRAMING WHERE MINIMUM PANEL DIMENSION SHALL BE 24" UNLESS ALL EDGES OF UNDERSIZED PANELS ARE SUPPORTED BY AND FASTENED TO FRAMING MEMBERS OR BLOCKING.
 3. NAILS SHALL BE LOCATED AT LEAST 3/8" FROM THE EDGES OF PANELS.



NOTE:
THE STUD
CONFIGURATION SHALL BE
THE SAME FOR ALL
CONDITIONS WHERE
STRAP HOLDOWNS ARE
USED.

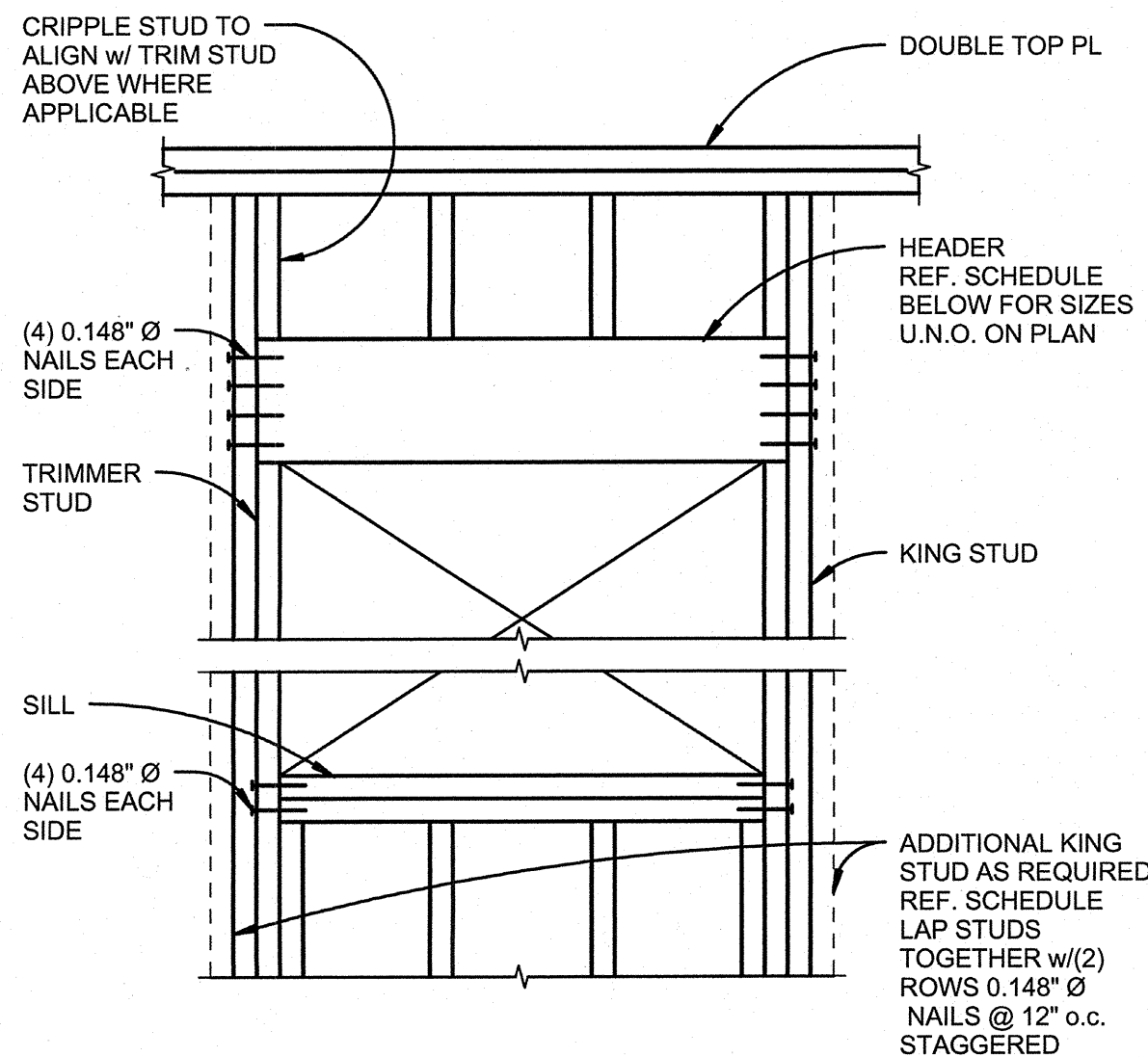


TYPE ① SHEAR WALL

WOOD SHEAR WALL SCHEDULE						
WALL SYMBOL	WOOD STRUCTURAL PANEL SHEATHING	EDGE NAILING	FRAMING THICKNESS AT ADJOINING PANEL EDGES	SOLE PLATE FASTENING	SILL PLATE THICKNESS	SILL PLATE FASTENING
①	15/32"	0.131"Ø @ 6" o.c.	2x	0.148"Ø @ 6" o.c.	2x	(E) 5/8"Ø A.B. @ 3'-0" o.c.
						A35 @ 24" o.c. MIN. (1) PER BAY

8 PLYWOOD DIAPHRAGM NAILING

1" = 1'-0"



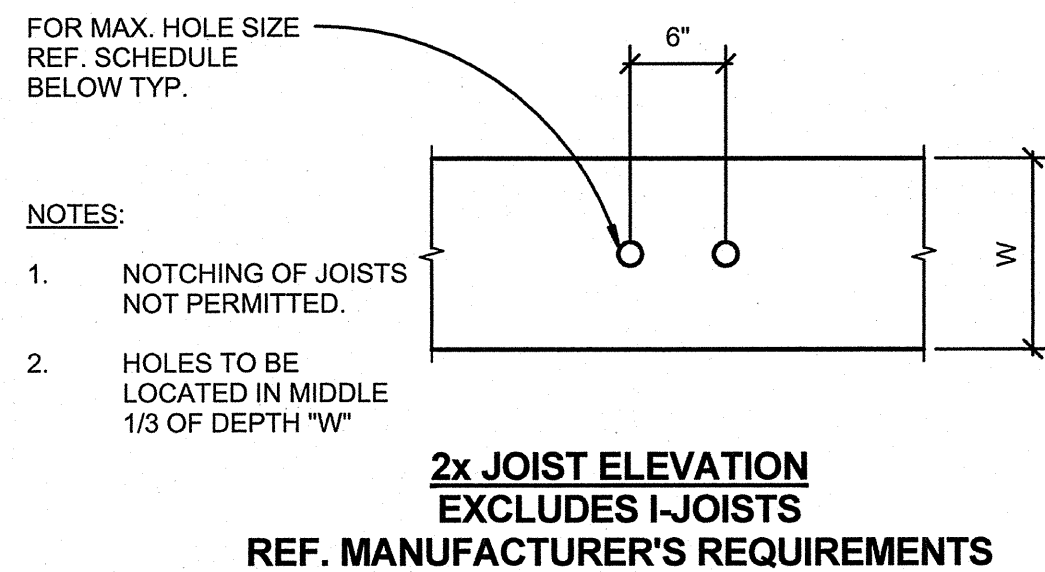
OPENING WIDTH	HEADER	SILL	TRIMMER	KING
HEADER 1	(2) 2x6	(2) 2x	(1) 2x	(1) 2x
HEADER 2	(3) 2x12	(2) 2x	(1) 2x	(1) 2x

9 TYPICAL HEADER/SILL DETAIL

1" = 1'-0"

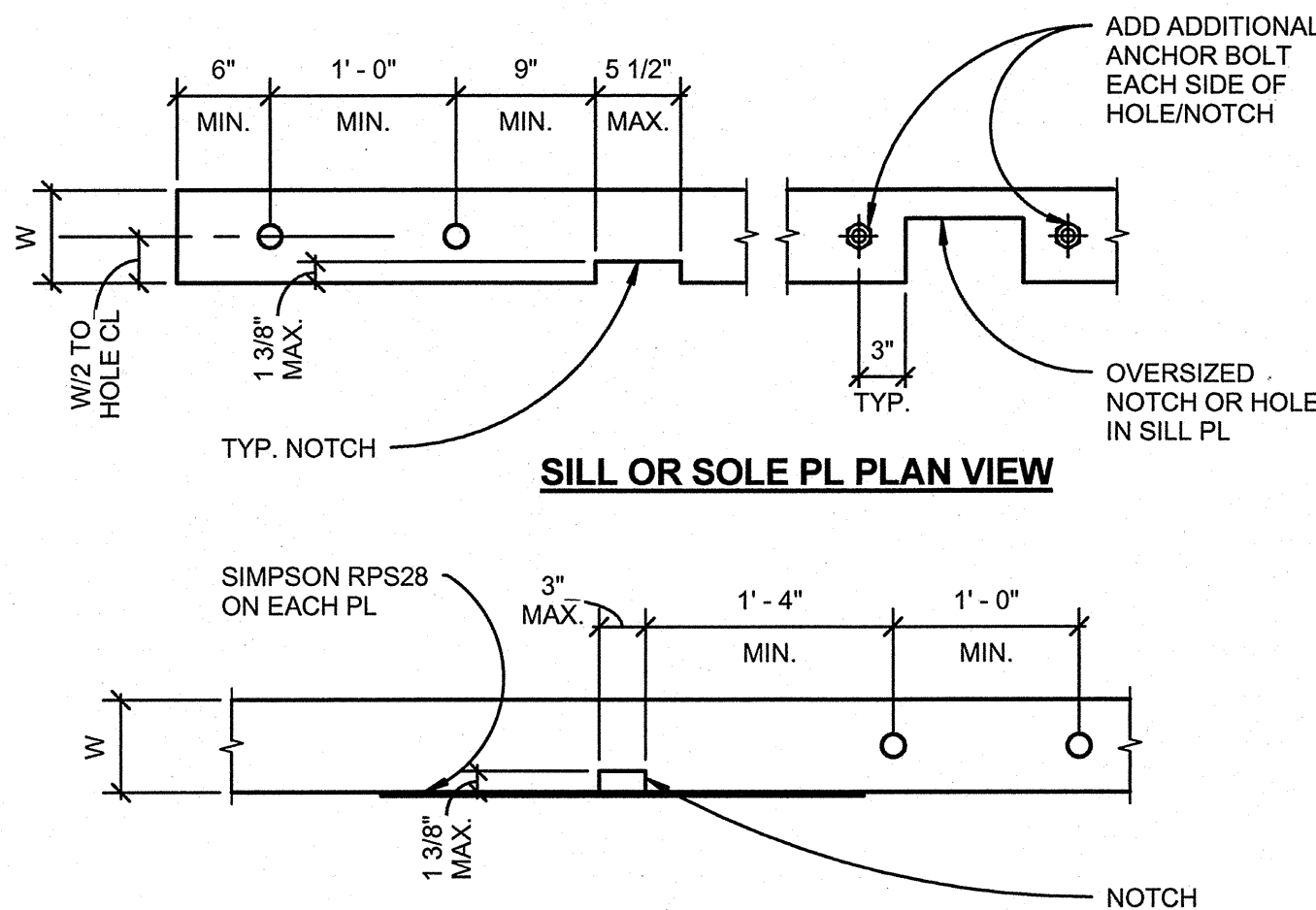
6 HOLDOWNS AT CORNERS

1" = 1'-0"

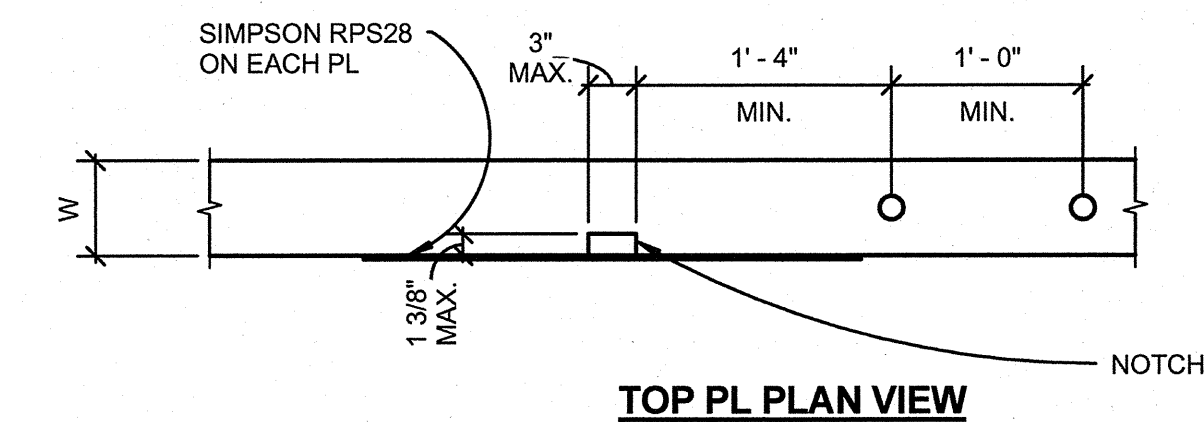


NOTES:

1. NOTCHING OF JOISTS NOT PERMITTED.
2. HOLES TO BE LOCATED IN MIDDLE 1/3 OF DEPTH "W"



SILL OR SOLE PL. PLAN VIEW

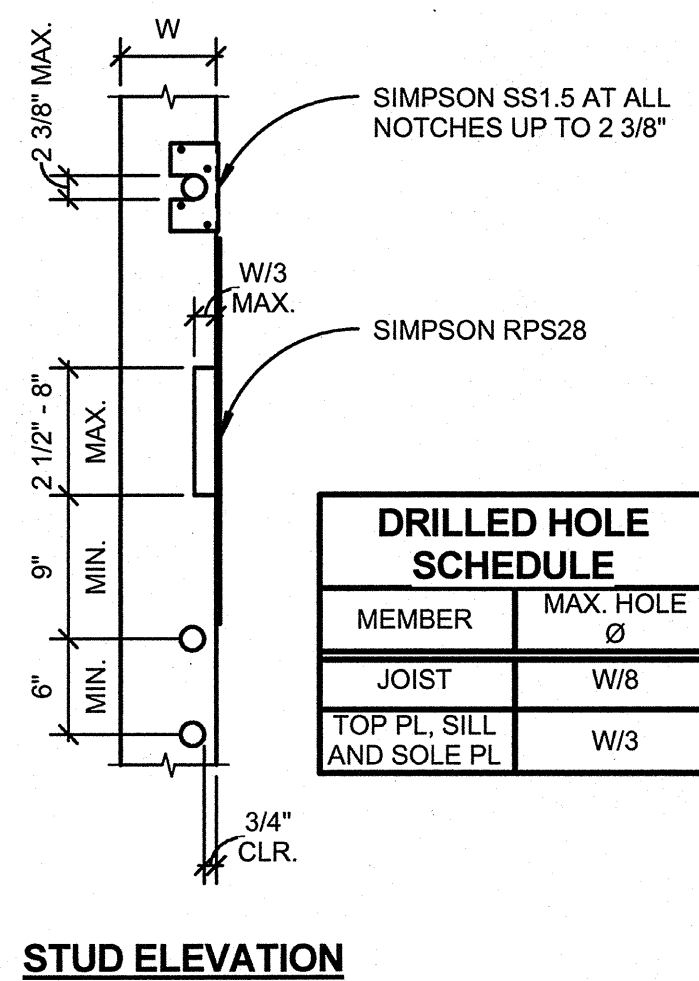


TOP PL. PLAN VIEW

NOTES:

1. "W" DENOTES WIDTH OF WOOD MEMBER.
2. SILL PL. NOTES:
 - A. WHERE NOTCH IS GREATER THAN NOTED, PROVIDE ADDITIONAL ANCHOR BOLT EACH SIDE OF NOTCH.
 - B. WHERE BOLT IS LESS THAN 1" CLR. FROM EDGE, PROVIDE ADDITIONAL ANCHOR BOLT.
 - C. ALL OVERSIZED BOLT HOLES (HOLES GREATER THAN 1/16" + ANCHOR BOLT Ø) SHALL BE FILLED W/ EPOXY FOR TIGHT FIT.
3. TOP PLATE NOTES:

WHERE NOTCHED OR DRILLED HOLE EXCEEDS ALLOWABLE:
TOP PL. CONTACT KPFF CONSULTING ENGINEERS.
STUD: REPLACE STUD.
4. ALL HOLES TO DRILLED, NOT SAWN.
5. ALL NOTCHES TO HAVE CORNERS PREDRILLED.



DRILLED HOLE SCHEDULE	
MEMBER	MAX. HOLE Ø
JOIST	W/8
TOP PL. SILL AND SOLE PL.	W/3

7 HOLES AND NOTCHES AT WOOD FRAMING

1" = 1'-0"

3 ADJOINING SHEAR WALL EDGES

1" = 1'-0"

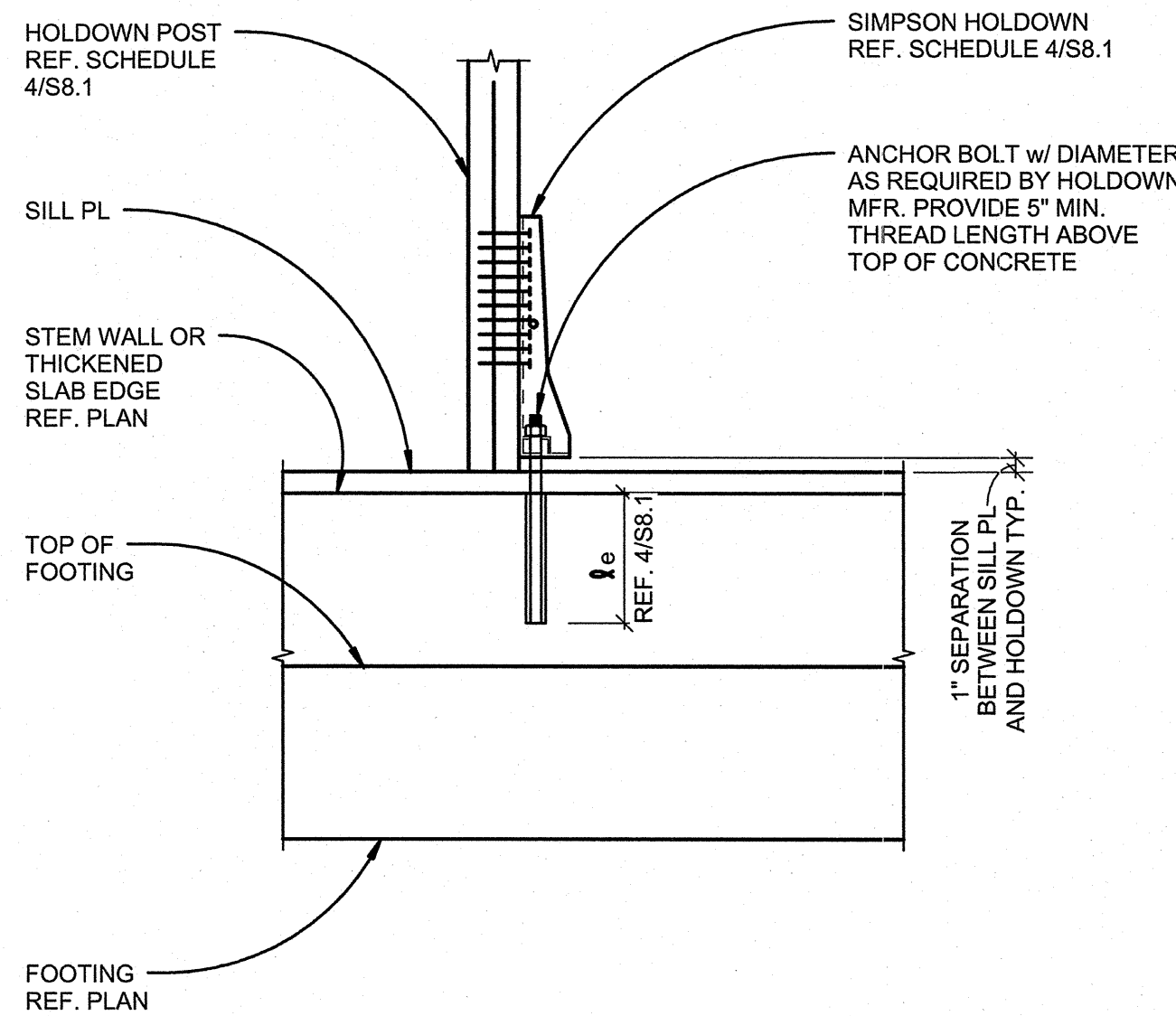
HOLDOWN SCHEDULE					
MARK	TYPE	POST	ANCHOR DIAMETER	FOOTING EMBEDMENT L _e (IN.)	CAPACITY (LBS.)
A	HDU2-SDS2.5	*(2) 2x6"	5/8	**0'-9"	3075
B	HDU4-SDS2.5	*(2) 2x6"	5/8	**0'-9"	4565

NOTES:

1. REF. TYP. HOLDOWN DETAIL 5/S8.1 FOR DEFINITION OF A.
2. ANCHORS SHALL BE ASTM F1554 GRADE 36 HEADED ANCHOR BOLTS.
3. ALL HOLDOWNS SHALL BE INSTALLED WITH STRICT CONFORMANCE TO MANUFACTURER'S REQUIREMENTS.

4 HOLDOWN SCHEDULE

1" = 1'-0"



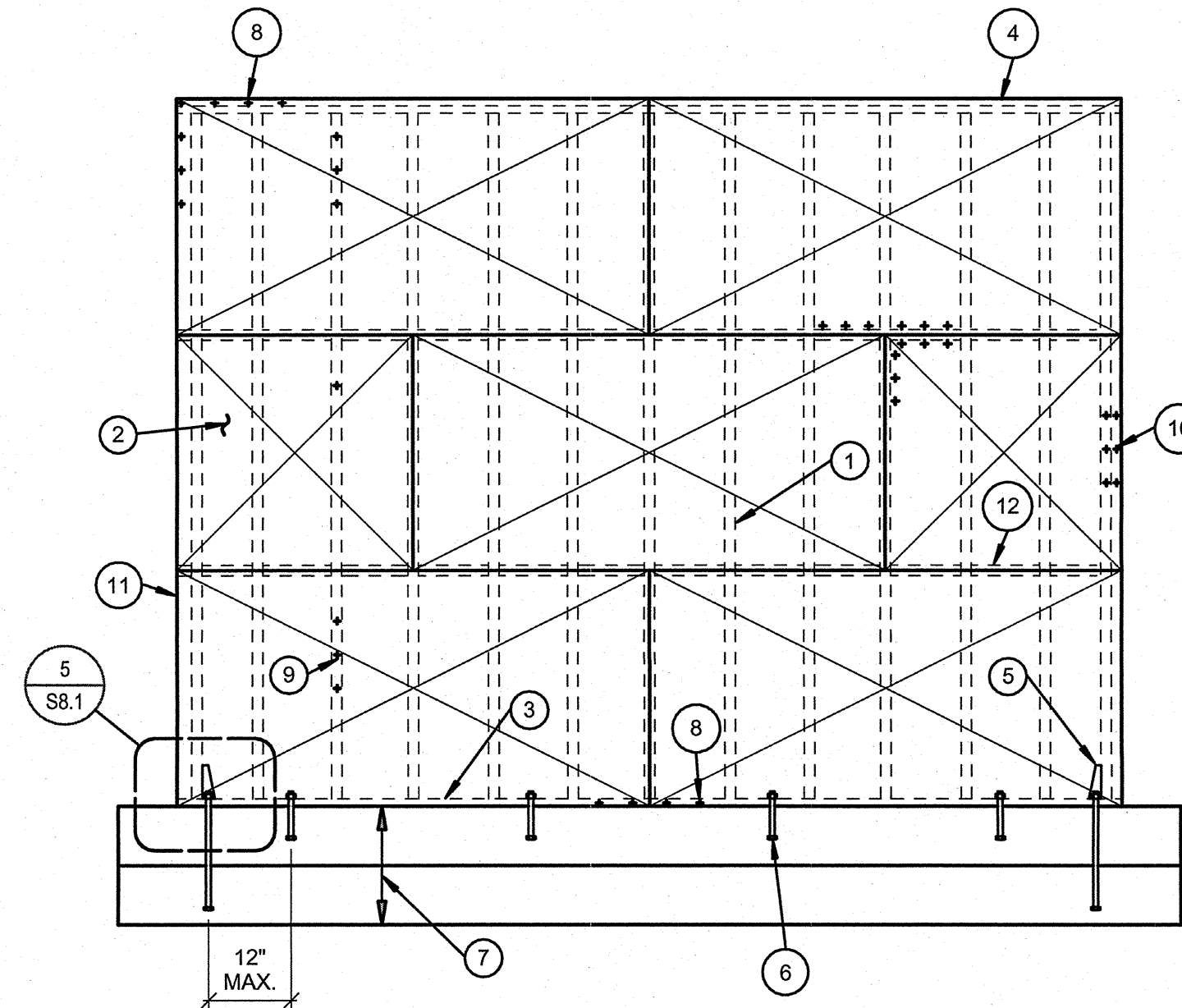
5 HOLDOWN ELEVATION

1" = 1'-0"

S8.1

1 SHEAR WALL SCHEDULE

1" = 1'-0"

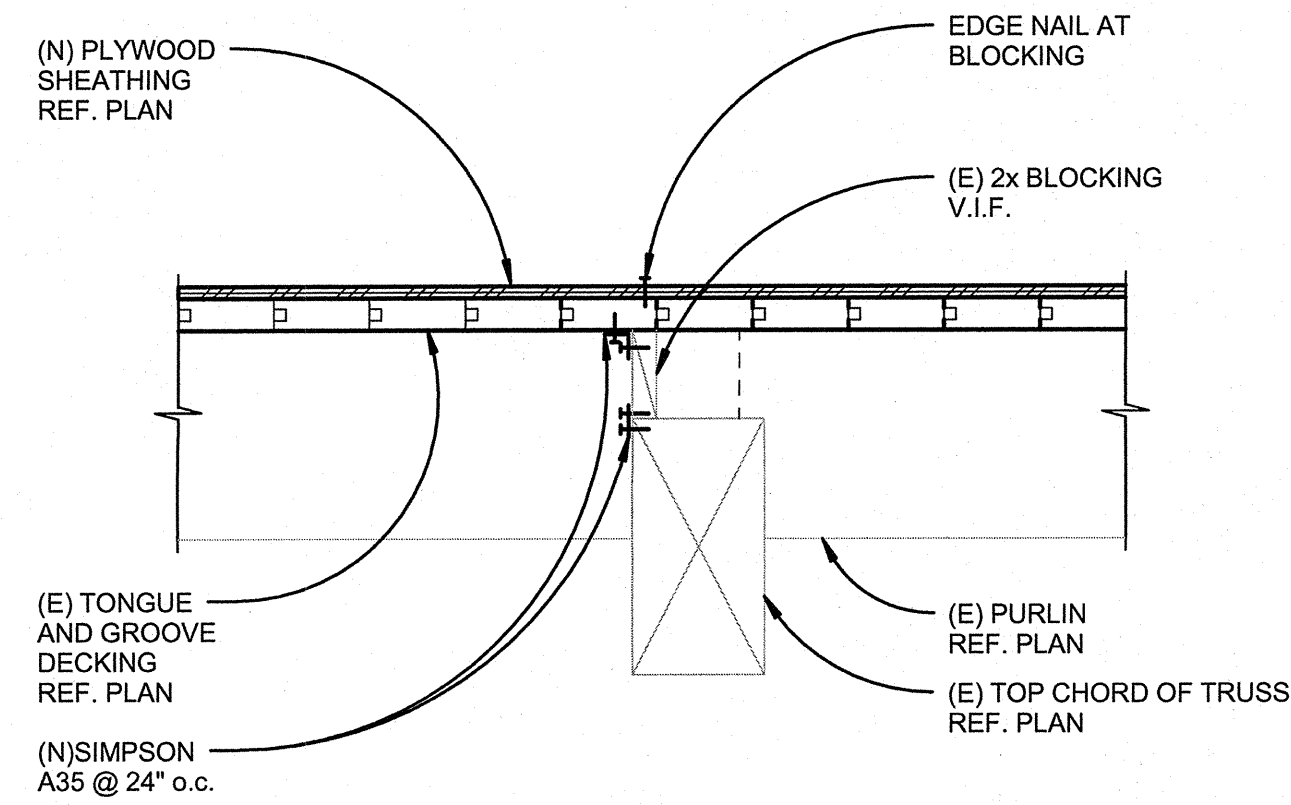


SHEAR WALL ELEVATION NOTES:

1. TYPICAL WALL STUDS.
2. WOOD STRUCTURAL PANEL SHEATHING. LAY HORIZONTALLY OR VERTICALLY. REF. SHEAR WALL SCHEDULE 1/S8.1 FOR ADDITIONAL REQUIREMENTS.
3. P.T. SILL PLATE.
4. DOUBLE TOP PLATE.
5. HOLDOWN ANCHOR OR STRAP.
6. ANCHOR BOLTS. THERE SHALL BE A MINIMUM OF TWO BOLTS PER SILL PIECE (A HOLE IN SILL REMOVING MORE THAN 25% OF CROSS-SECTION SHALL BE CONSIDERED TO BE BREAKING PLATE) WITH ONE BOLT LOCATED NOT MORE THAN 12" NOR LESS THAN 4 1/2" FROM THE END OF EACH PIECE.
7. FOUNDATION.
8. EDGE NAILING. REF. SHEAR WALL SCHEDULE.
9. INTERMEDIATE SUPPORT NAILING @ 12" o.c.
10. PROVIDE EDGE NAILING TO EACH HOLDOWN POST. WHERE HOLDOWN POST CONSISTS OF BUILT UP MEMBERS, PROVIDE STAGGERED NAILING TO EACH PIECE.
11. HOLDOWN POST.
12. ALL SHEATHING EDGES ARE TO BE BLOCKED. REF. SHEAR WALL SCHEDULE FOR FRAMING THICKNESS AT ADJOINING PANEL EDGES.
13. REF. SHEAR WALL SCHEDULE 1/S8.1

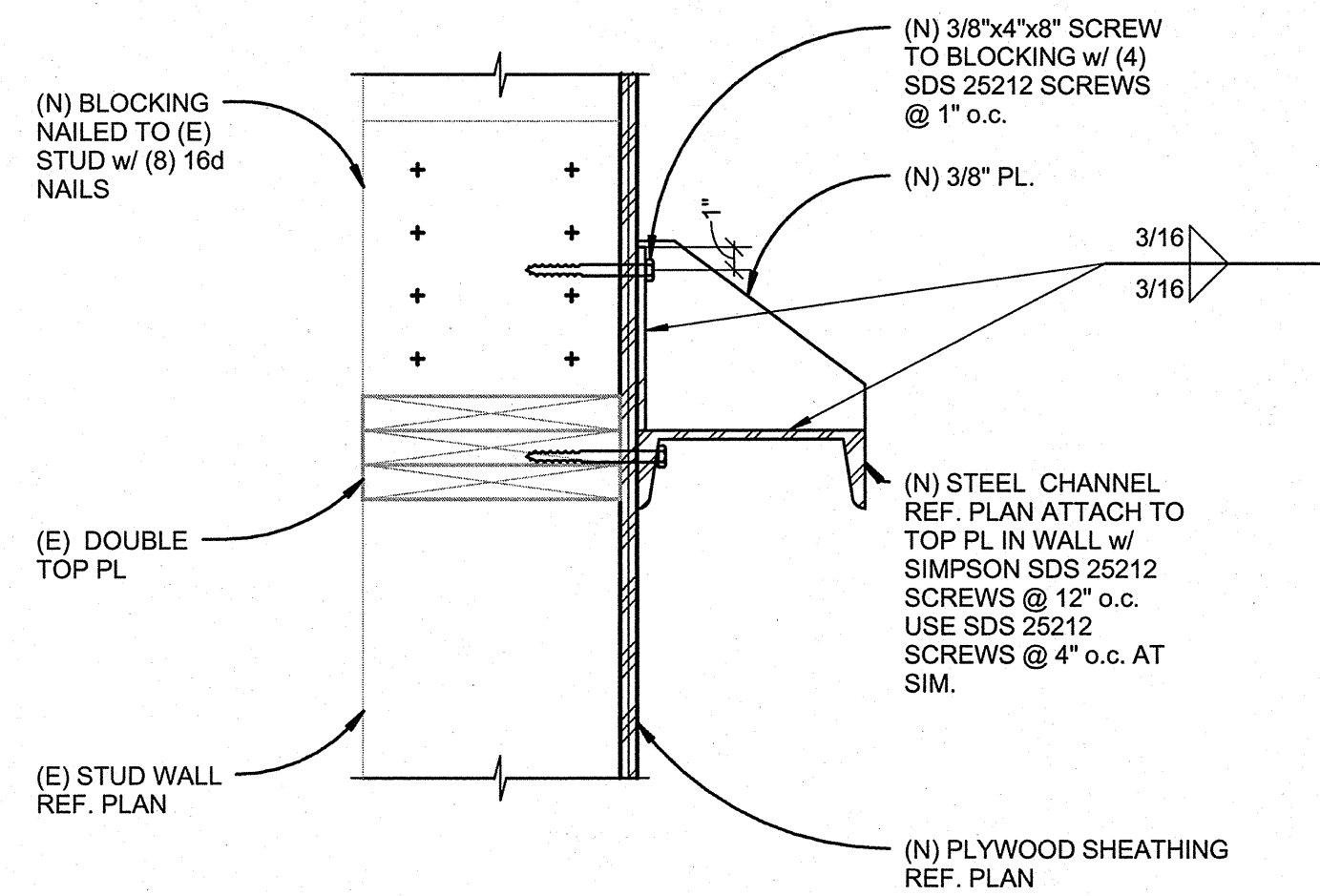
2 SHEAR WALL ELEVATION - SINGLE STORY

1" = 1'-0"



7 BLOCKING DETAIL

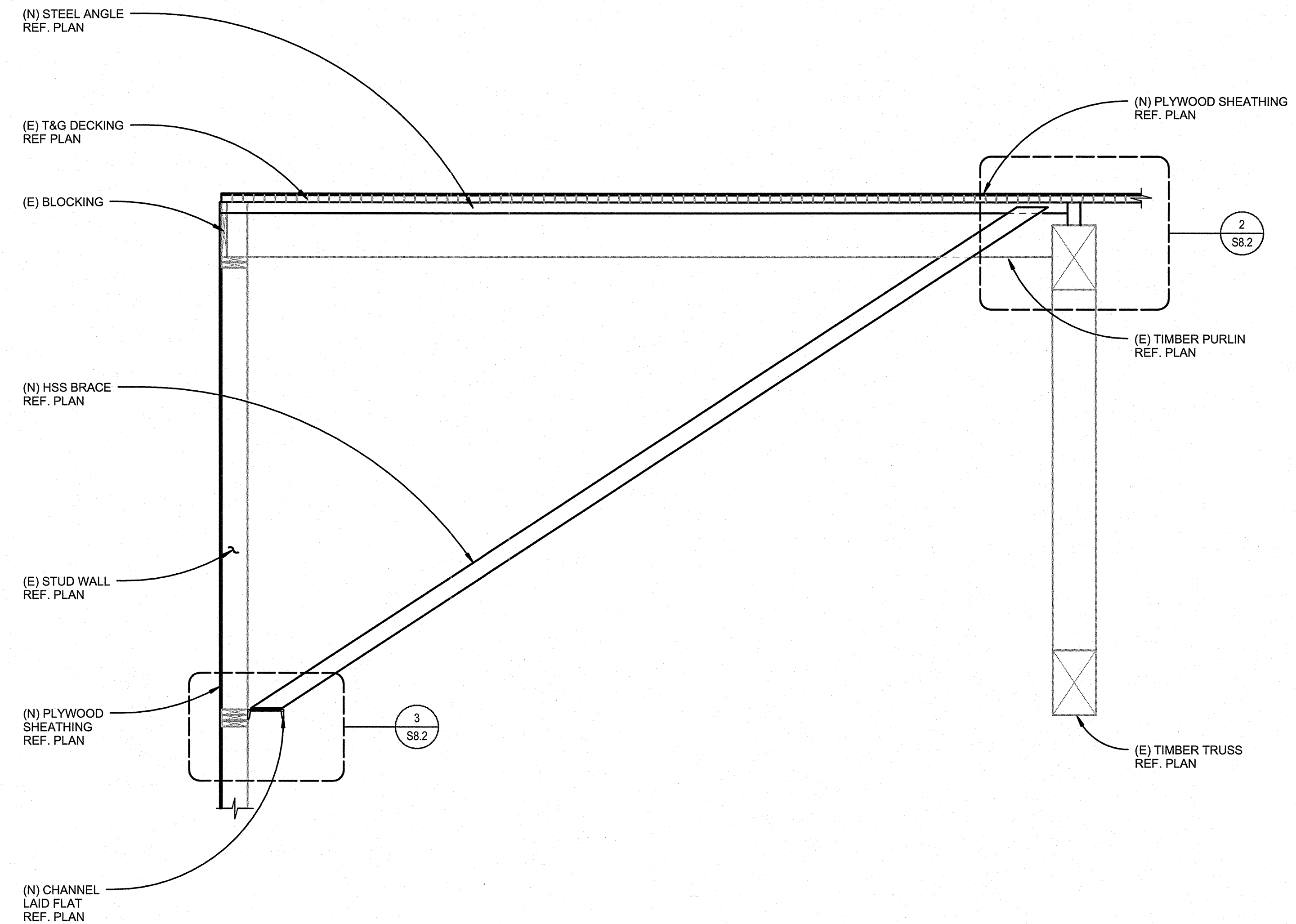
1" = 1'-0" S4.4



NOTE:
PROVIDE STIFFENER AT ENDS AND 10'-0" o.c.
MAXIMUM ALONG STEEL CHANNEL.

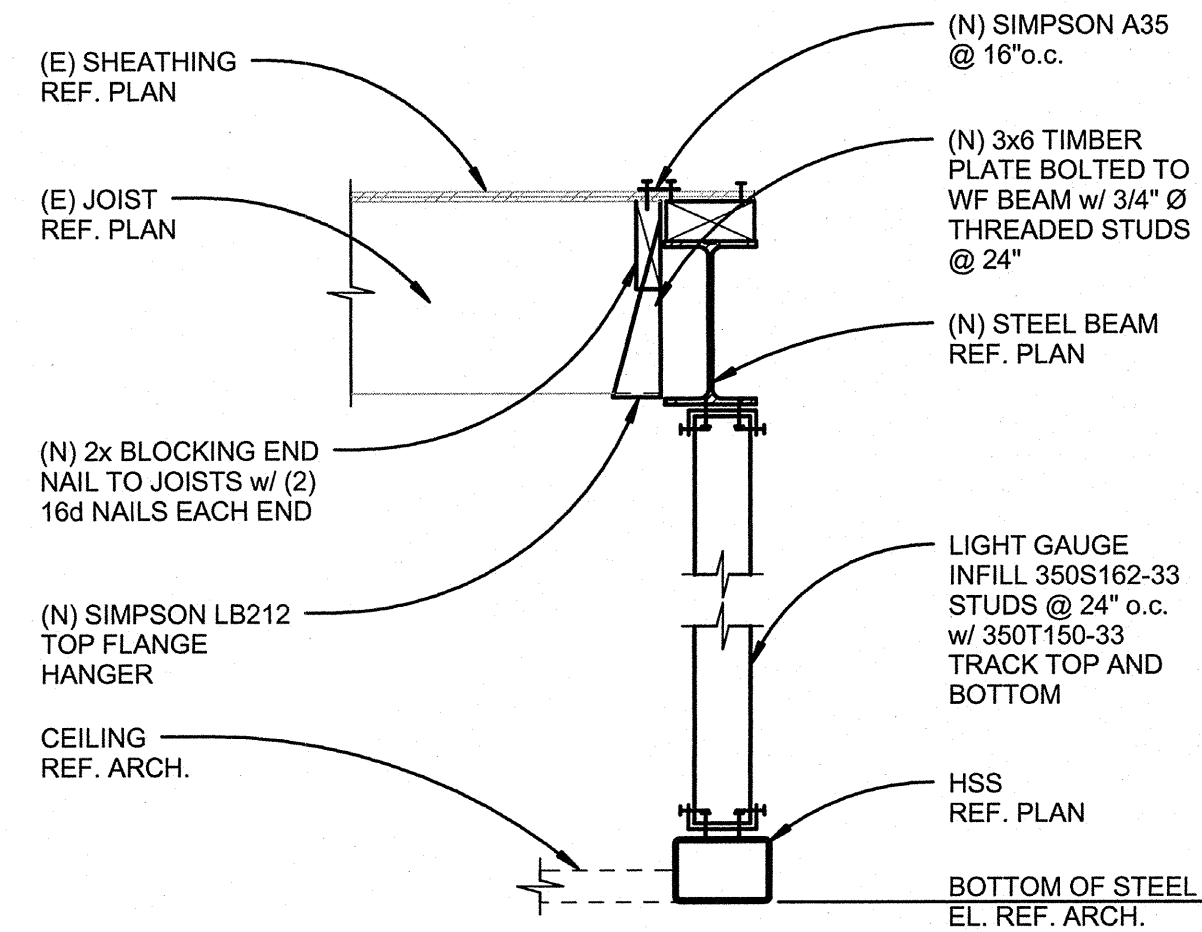
4 CHANNEL STIFFENERS

1 1/2" = 1'-0" S4.4



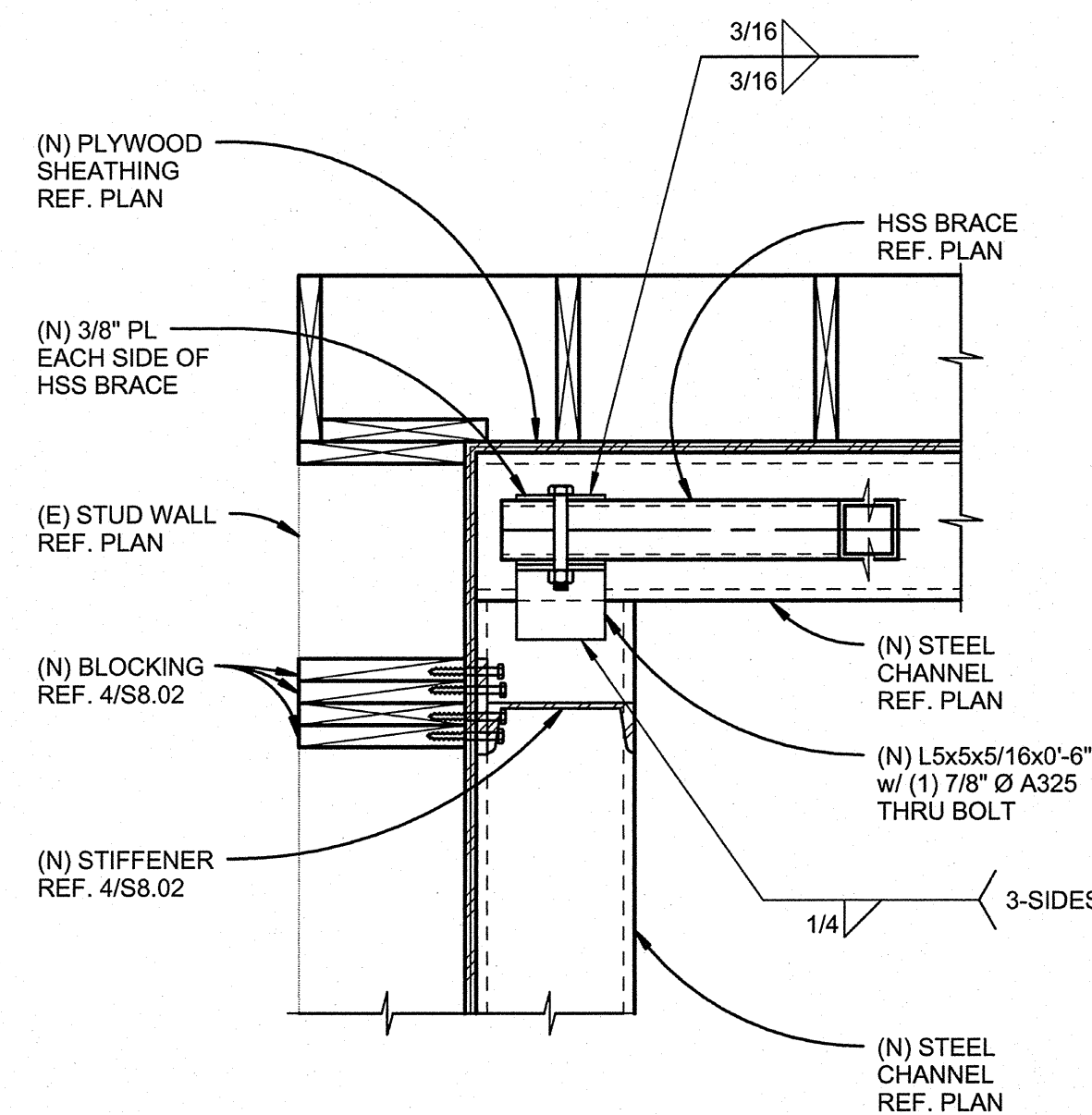
1 BRACED DETAIL AT GYM ROOF

1/2" = 1'-0" S4.4



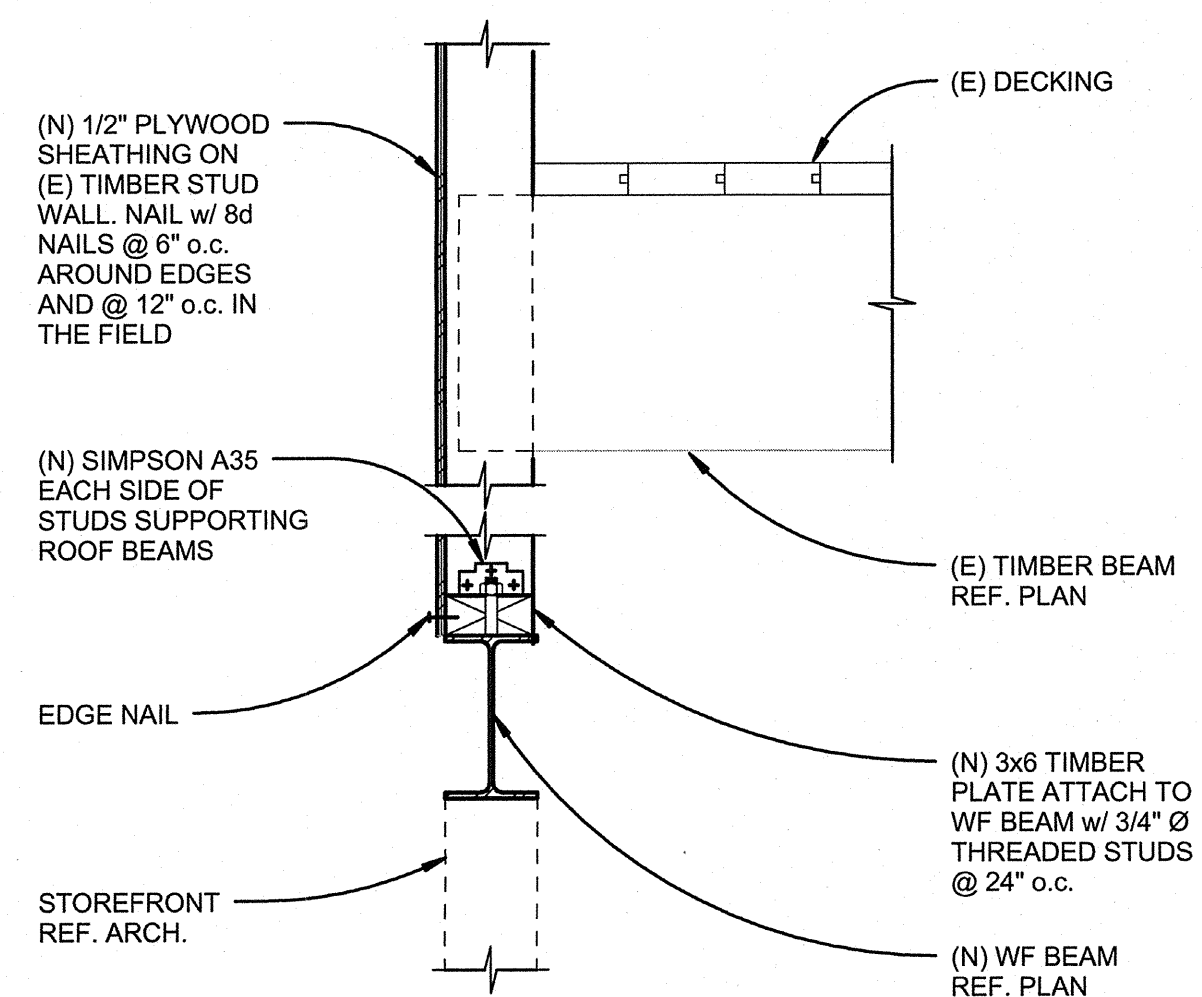
8 EXISTING ROOF SUPPORT

1" = 1'-0" S4.1



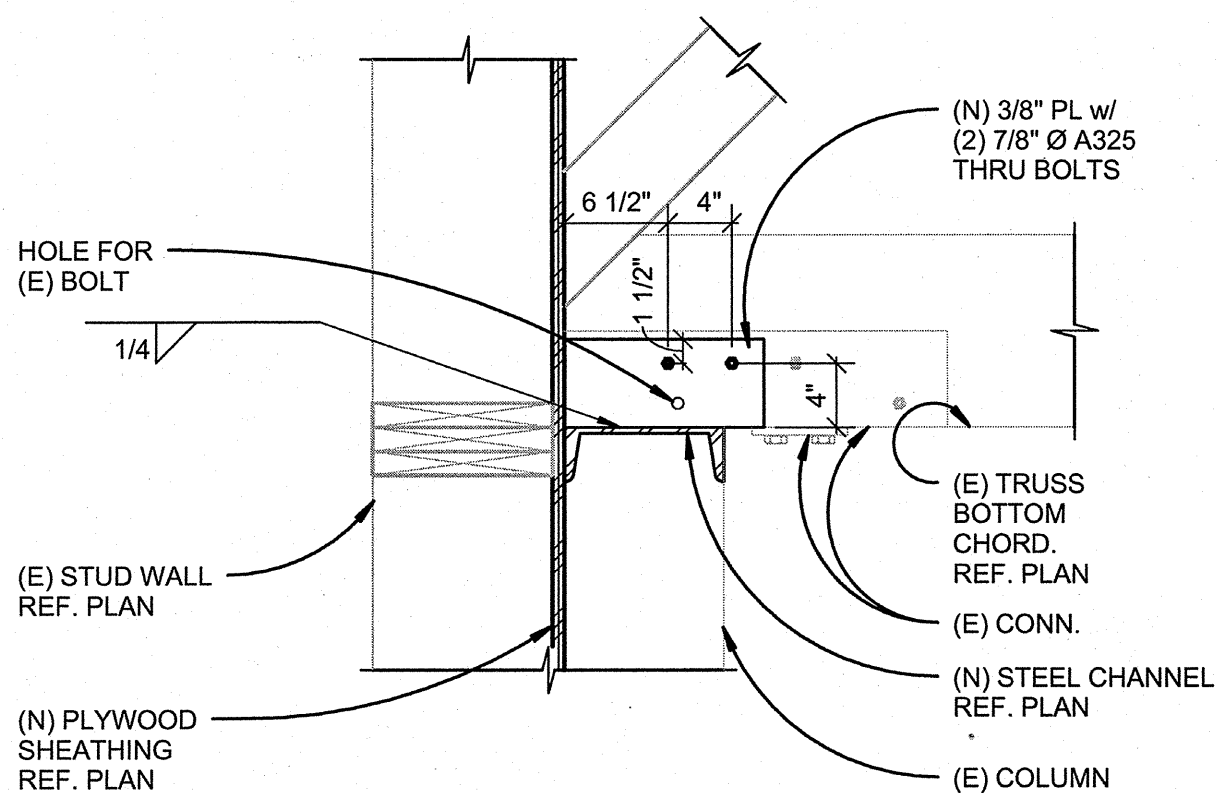
5 PLAN OF CHANNEL CONNECTION AT CORNER

1" = 1'-0" S4.4



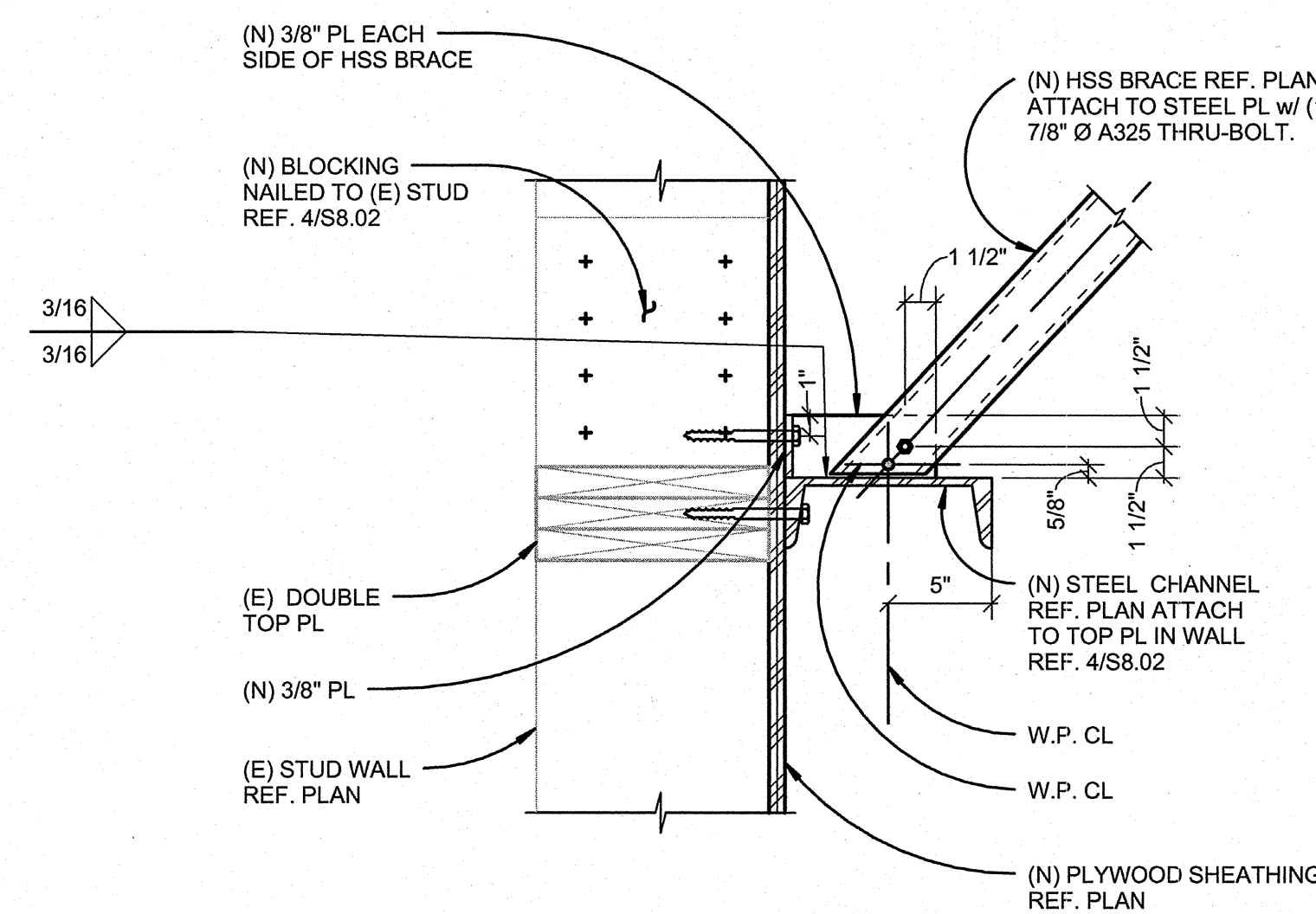
9 ROOF SUPPORT BEAM AT STOREFRONT

1" = 1'-0" S4.2



6 CHANNEL TO TRUSS CONNECTION

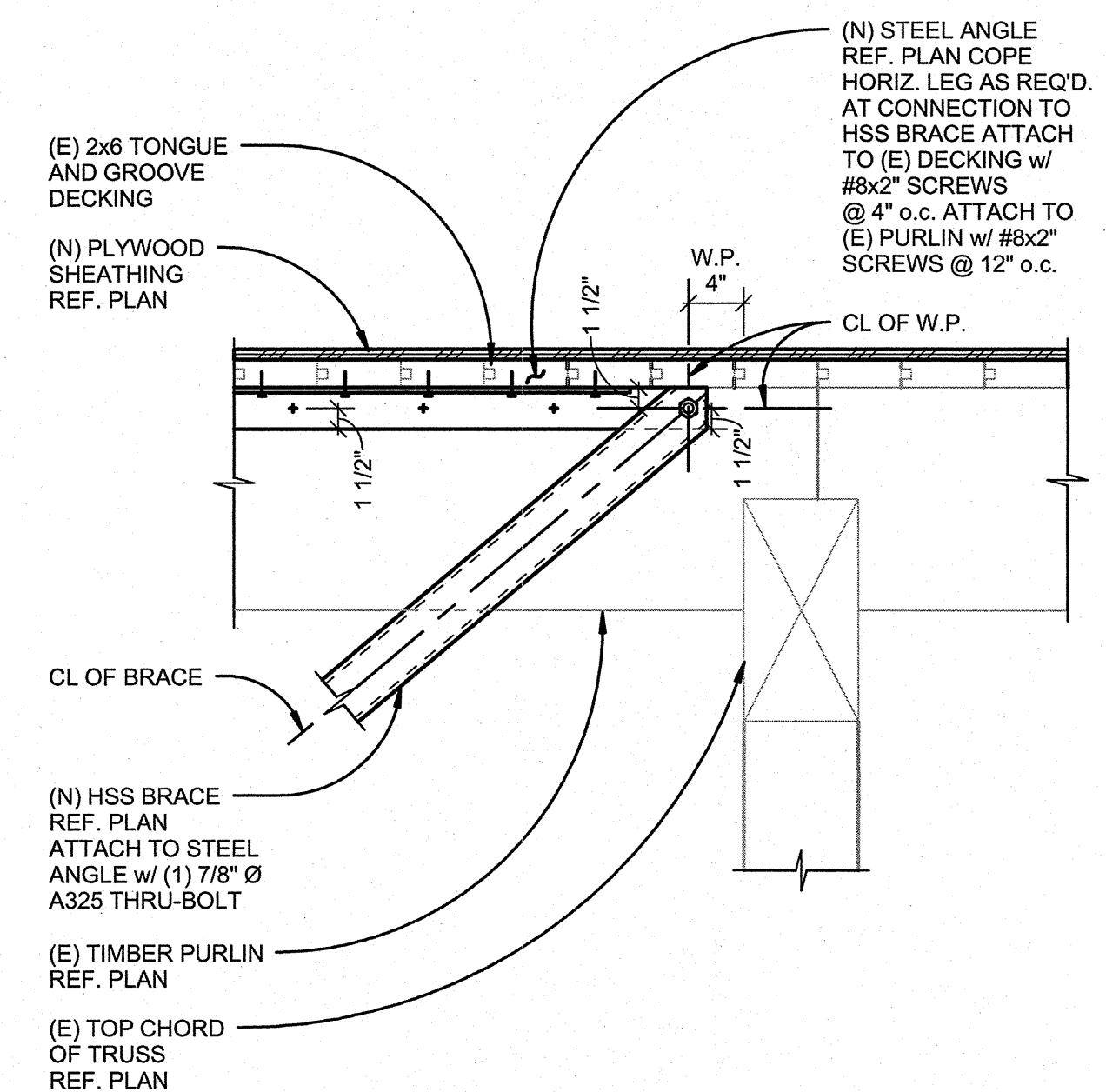
1" = 1'-0" S4.4



NOTE:
REF. 4/S8.02 FOR
INFORMATION NOT SHOWN

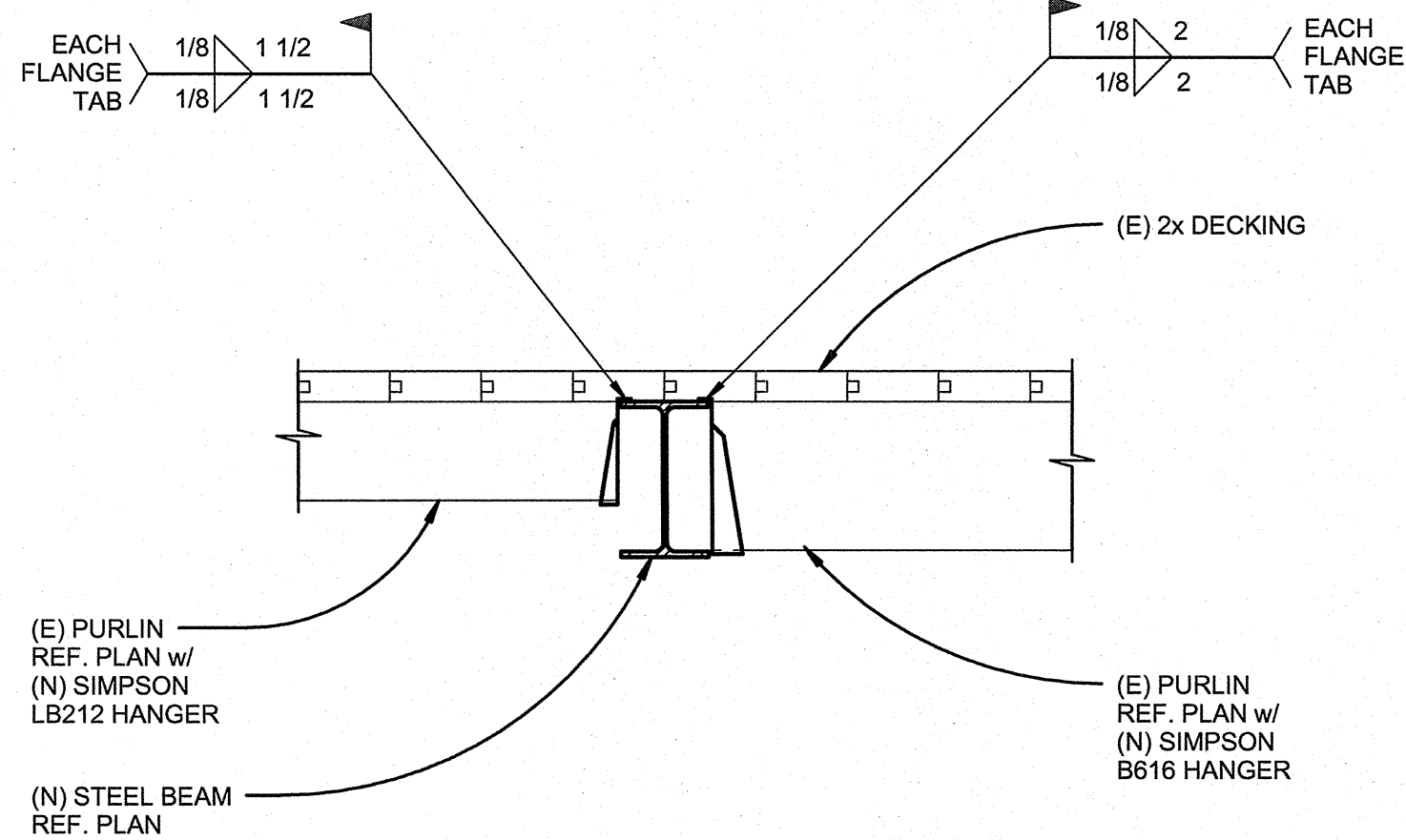
3 BRACE CONNECTION TO WALL

1 1/2" = 1'-0" S8.2



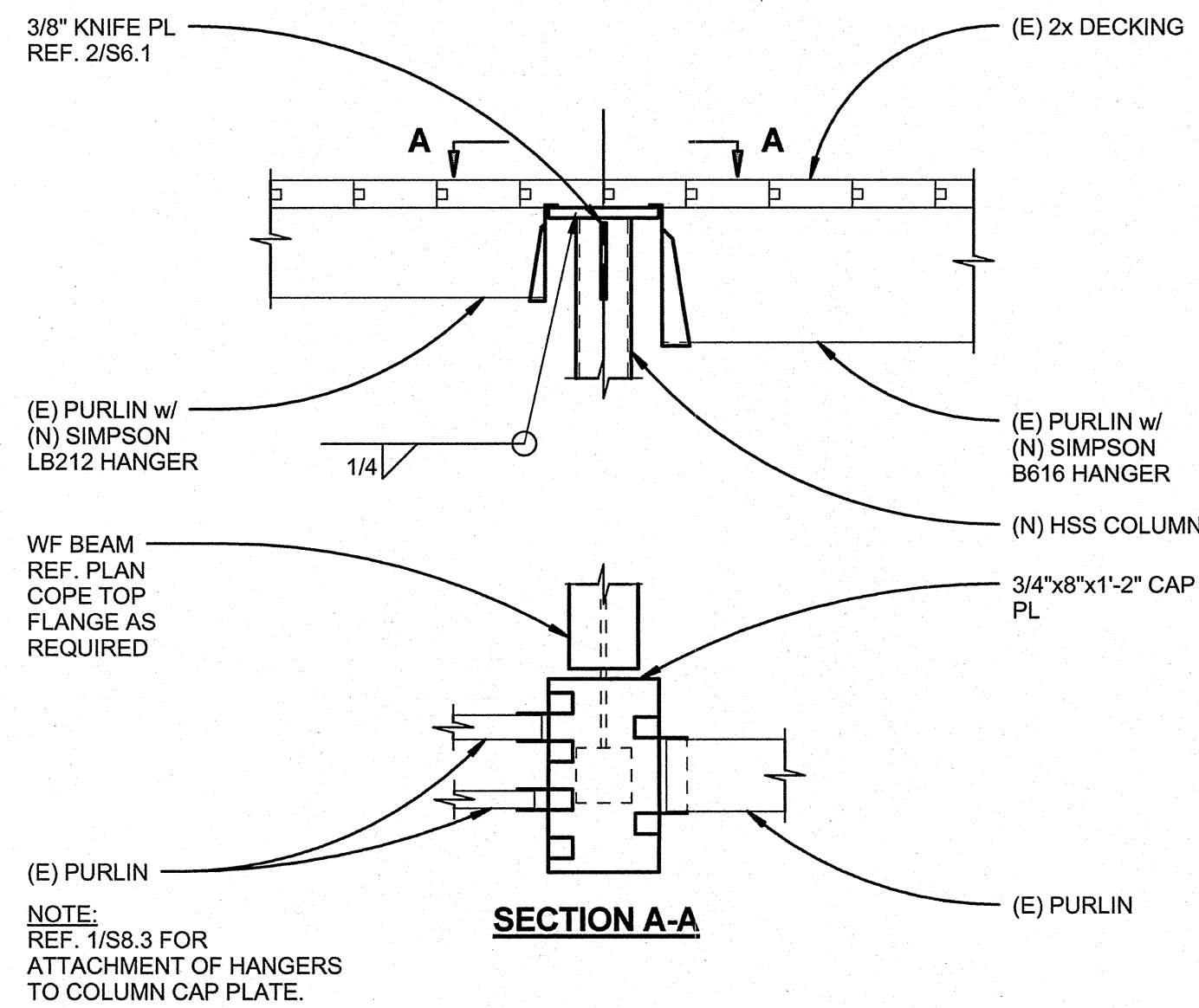
2 BRACE CONNECTION TO ROOF

1" = 1'-0" S8.2



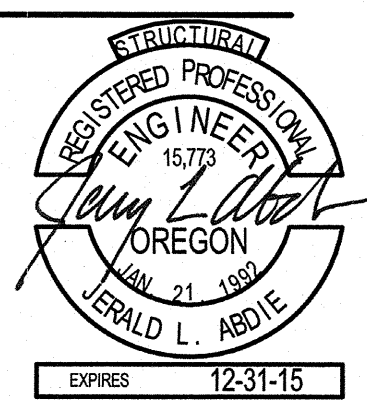
WF BEAM 1 CONNECTION TO EXISTING ROOF

1" = 1'-0" S4.2



2 EXISTING PURLIN TO HSS COLUMN

1" = 1'-0" S4.2



Project Status
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WOOD DETAILS FERN RIDGE MIDDLE SCHOOL

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STANDARD MECHANICAL ABBREVIATIONS			
AF	AIRFOIL	IE	INVERT ELEVATION
AFF	ABOVE FINISHED FLOOR	IN	INCH(ES)
AHP	APPARATUS HOUSING PLENUM	INSUL	INSULATION
ALT	ALTERNATIVE	ISOL	ISOLAT(OR)(ION)
AL	ALUMINUM	KW	KILOWATT
APD	AIR PRESSURE DROP	KWH	KILOWATT HOUR
APPROX	APPROXIMATELY	L	LENGTH
ARCH	ARCHITECT(URAL)	LAT	LEAVING AIR TEMP
AUTO	AUTOMATIC	LB	POUND
BDD	BACKDRAFT DAMPER	LDB	LEAVING DRY BULB
BI	BACKWARD INCLINED	LF	LINEAR FEET
BLDG	BUILDING	LFT	LEAVING FLUID TEMPERATURE
BSMT	BASEMENT	LVG	LEAVING
BTU	BRITISH THERMAL UNIT	LWB	LEAVING WET BULB
BTUH	BRITISH THERMAL UNITS PER HOUR	LWT	LEAVING WATER TEMPERATURE
CFH	CUBIC FEET PER HOUR	LWB	LEAVING WATER TEMPERATURE
CFM	CUBIC FEET PER MINUTE	MAX	MAXIMUM
CFS	CUBIC FEET PER SECOND	MBH	THOUSAND BTU PER HOUR
CLG	CEILING OR COOLING	MECH	MECHANICAL
CONC	CONCRETE	MFR	MANUFACTURER
CONN	CONNECT(ION)	MIN	MINIMUM
CONT	CONTINUE(ED)(UATION)	MISC	MISCELLANEOUS
CL	CENTERLINE	MTD	MOUNTED
DDC	DIRECT DIGITAL CONTROL	NC	NORMALLY CLOSED
DEFL	DEFLECTION	NIC	NOT IN CONTRACT
DN	DOWN	NO	NORMALLY OPEN
DP	DEW POINT	OAD	OUTSIDE AIR DAMPER
DWDI	DOUBLE WIDTH DOUBLE INLET	OC	ON CENTER DISTANCE
DWG	DRAWING	OSA	OUTSIDE AIR
EA	EXHAUST AIR	PH	PHASE
EAD	EXHAUST AIR DAMPER	PP	POLYPROPYLENE
EAT	ENTERING AIR TEMPERATURE	PSI	POUNDS PER SQUARE INCH
EDB	ENTERING DRY BULB	PVC	POLYVINYL CHLORIDE
EFF	EFFICIENCY	PVS	PVC COATED STEEL
EFT	ENTERING FLUID TEMPERATURE	R (RAD)	RADIUS
ELEC	ELECTRIC(AL)	RA	RETURN AIR
ELEV	ELEVATION	RAD	RETURN AIR DAMPER
ENGR	ENGINEER	REV	REVISION
EQ	EQUAL	RH	RELATIVE HUMIDITY
EQUIP	EQUIPMENT	RPM	REVOLUTIONS PER MINUTE
ESP	EXTERNAL STATIC PRESSURE	SA	SUPPLY AIR
EWB	ENTERING WET BULB	SCFM	STANDARD CUBIC FEET PER MINUTE
EWT	ENTERING WATER TEMPERATURE	SD	SMOKE DAMPER
EX	EXTRACTOR	SECT	SECTION
EXH	EXHAUST	SENS	SENSIBLE
EXIST	EXISTING	SIM	SIMILAR
EXP	EXPANSION	SP	STATIC PRESSURE
F	DEGREES FAHRENHEIT	SPEC	SPECIFICATION
FC	FORWARD CURVED	SQ	SQUARE
FIG	FIGURE	SF	SQUARE FOOT(FEET)
FILT	FILTER	SQ IN	SQUARE INCH(ES)
FLEX	FLEXIBLE	SS	STAINLESS STEEL
FPD	FLUID PRESSURE DROP	STL	STEEL
FPM	FEET PER MINUTE	STRUCT	STRUCTURE(E)(AL)
FPS	FEET PER SECOND	SWP	SINGLE WALL PLENUM
FT	FEET/FOOT	SWSI	SINGLE WIDTH SINGLE INLET
FTR	FINNED TUBE RADIATOR	TEMP	TEMPERATURE
FU	FIXTURE UNIT	TSP	TOTAL STATIC PRESSURE
FUT	FUTURE	TYP	TYPICAL
FV	FACE VELOCITY	V	VOLTS
GA	GAGE/GAUGE	VD	VOLUME DAMPER
GAL	GALLON	VEL	VELOCITY
GALV	GALVANIZED	VERT	VERTICAL
GLY	GLYCOL	VFD	VARIABLE FREQUENCY DRIVE
GPH	GALLONS PER HOUR	VTR	VENT THROUGH ROOF
GPM	GALLONS PER MINUTE	W	WIDTH
H	HEIGHT	WG	WATER GAUGE
HORIZ	HORIZONTAL	WPD	WATER PRESSURE DROP
HP	HORSEPOWER	WTD	WATER TEMPERATURE DROP
HTG	HEATING	WTR	WATER TEMPERATURE RISE
ID	INSIDE(DIAMETER/DIMENSION)	W/	WITH
		W/O	WITHOUT

DEMOLITION LEGEND	
	REMOVE EXISTING DUCT
NEW AND EXISTING WORK	
	EXISTING DUCT WORK
	NEW DUCT WORK

MECHANICAL DRAWING LIST	
SHEET	SHEET NAME
M0.1	SYMBOLS, LEGENDS & ABBREVIATIONS - MECH.
M1.0	FLOOR PLAN - OVERALL - MECHANICAL
M1.1	FLOOR PLAN - AREA A - MECHANICAL
M1.2	FLOOR PLAN - AREA B - MECHANICAL
M2.0	ROOF PLAN - OVERALL - MECHANICAL
M5.1	DETAILS - MECHANICAL
M6.1	SCHEDULES - MECHANICAL
M6.2	SCHEDULES - MECHANICAL
M6.3	SCHEDULES - MECHANICAL
MD1.0	DEMO FLOOR PLAN - OVERALL - MECHANICAL
MD1.1	DEMO FLOOR PLAN - AREA A - MECHANICAL
MD1.2	DEMO FLOOR PLAN - AREA B - MECHANICAL
MD2.0	DEMO ROOF PLAN - AREA A & B - MECHANICAL

HVAC PIPING			
	D	DRAIN (CONDENSATE/INDIRECT)	
	CHWS	CHILLED WATER SUPPLY	
	CHWR	CHILLED WATER RETURN	
	HWS	HEATING WATER SUPPLY	
	HWR	HEATING WATER RETURN	
	RS	REFRIGERANT SUCTION	
	RL	REFRIGERANT LIQUID	
	RHG	REFRIGERANT HOT GAS	

CONTROL SYMBOLS	
	DAMPER WITH OPERATOR
	2-WAY CONTROL VALVE
	3-WAY CONTROL VALVE
	DIGITAL OUTPUT FROM DDC PANEL
	DIGITAL INPUT TO DDC PANEL
	ANALOG OUTPUT FROM DDC PANEL
	ANALOG INPUT TO DDC PANEL
	DIFFERENTIAL PRESSURE SWITCH
	EP VALVE
	STATIC PRESSURE CONTROLLER
	VELOCITY PRESSURE TRANSMITTER
	PNEUMATIC RELAY
	DAMPER END SWITCH
	CARBON MONOXIDE SENSOR
	CARBON DIOXIDE SENSOR
	AIR MONITORING STATION
	VELOCITY PRESSURE PROBE
	PE SWITCH
	DUCT SMOKE DETECTOR
	WATER FLOW METER WITH ELECTRONIC TRANSMITTER
	PUSH BUTTON SWITCH
	SWITCHED MAIN AIR
	PRESSURE TRANSMITTER
	MAIN AIR
	ELECTRONIC HUMIDITY TRANSMITTER
	DUCT MOUNTED HIGH LIMIT HUMIDISTAT
	ELECTRONIC TEMPERATURE SENSOR
	FLOW SWITCH
	ELECTRONIC SENSOR WITH AVERAGING

SYMBOLS			
	ACCESS PANEL		CAP EXISTING / CAP FOR FUTURE
	BELOW GRADE / FLOOR		RELOCATE EXISTING
	CONNECT TO EXISTING		REMOVE EXISTING
	EXISTING TO REMAIN		NOTE
CALL OUT SYMBOLS			
	WALL MOUNTED		CARBON MONOXIDE
	PENDANT MOUNTED		CARBON DIOXIDE
	TEMPERATURE		NITROGEN OXIDE
	HUMIDITY		
ROOM SENSORS			

DUCT LEGEND	
	RETURN
	EXHAUST
	SUPPLY
SEE SPEC FOR TYPE SEE SCHEDULE FOR SIZE	
FLOW DIRECTION (NONE SHOWN IF 4-WAY)	
	CFM TYPE
	CFM SIZE TYPE
TYPE REFERENCE H = 6" BELOW CEILING L = 6" ABOVE FLOOR F = FLOOR S = SLOT DIFFUSER C = CEILING T = DOOR TRANSFER	
NECK SIZE (SIDEWALL & FLOOR GRILLE) PLENUM INLET SIZE (SLOT DIFFUSER)	
CEILING DIFFUSERS & GRILLES	
	TU-X-XXX TERMINAL UNIT NUMBER FLOOR UNIT IS LOCATED ON AIR HANDLER NUMBER TERMINAL UNIT
SIDEWALL, SLOT & FLOOR GRILLES	
	EF-XXX UNIT NUMBER FLOOR UNIT IS LOCATED ON EQUIPMENT TYPE
DUCT SECTIONS	
	SUPPLY AIR
	RETURN AIR
	EXHAUST AIR
	OUTSIDE AIR
EQUIPMENT	
	FSD COMBINATION FIRE/SMOKE
	F FIRE
	S SMOKE
	V VOLUME
	A AUTOMATIC
DAMPERS	
	UC 1/2" UNDERCUT DOOR
LOW PRESSURE DUCT	
	SECTION
	PLAN
	FLEX DUCT
	SECTION
	PLAN
	ROUND DUCT
RETURN OR EXHAUST GRILLE CONNECTION	
	SECTION
	PLAN
	FLEX DUCT
	SECTION
	PLAN
	ROUND DUCT
SUPPLY DIFFUSER CONNECTION	
	SECTION
	PLAN
	RECTANGULAR DUCT
	SECTION
	PLAN
	SQUARE NECK
RETURN OR EXHAUST GRILLE	
	SECTION
	PLAN
SUPPLY DIFFUSER SIDE FLEX CONNECTION	
	SECTION
	PLAN
MEDIUM PRESSURE DUCTWORK	
	CONICAL TEE
	LOW LOSS
	LATERAL TEE
	CONICAL LATERAL
BRANCH FITTINGS	
	ELBOW
	Y-BRANCH
	BELL MOUTH
	REDUCER

GENERAL NOTE	
THIS IS A STANDARD LEGEND SHEET, THEREFORE, SOME SYMBOLS MAY APPEAR ON THIS SHEET THAT DO NOT APPEAR ON THE DRAWINGS.	
MISC. VALVES & COCKS	
	SHUT-OFF VALVE
	GLOBE VALVE
	SHUT-OFF VALVE W/ TAMPER SWITCH
	TRIPLE DUTY VALVE
	CHECK VALVE
	2-WAY CONTROL VALVE
	3-WAY CONTROL VALVE
	BALANCING VALVE
	FLOW CONTROL VALVE
	SOLENOID VALVE
	PRESSURE REDUCING VALVE
	AIR VENT (MANUAL/AUTOMATIC)
	RELIEF VALVE
	STRAINER
	STRAINER W/ BLOWDOWN
	DRAIN VALVE
	HOSE BIBB
	WALL HYDRANT
	GROUND HYDRANT
	STEAM TRAP
	PRESSURE GAUGE
	PRESSURE/TEMPERATURE TEST PLUG
	THERMOMETER
	FLOW SWITCH
	TEMPERATURE TRANSMITTER
	SHOCK ARRESTOR
	VACUUM BREAKER
	WATER FLOW METER
	REDUCED PRESSURE BACKFLOW ASSEMBLY
	DOUBLE CHECK VALVE ASSEMBLY
	DOUBLE CHECK DETECTOR ASSEMBLY
	BACKWATER VALVE
	UNDERGROUND GATE VALVE W/BOX
	UNDERGROUND GATE W/POST INDICATOR
	OUTSIDE SCREW & YOKE
	Y PATTERN BOILER BLOWDOWN VALVE
	NON-RETURN STOP VALVE
	QUICK OPENING BOILER BLOWDOWN VALVE

DUCT DETAILS (LOW VELOCITY)			
	RADIUS ELBOW		TURNING VANES IN ALL ELBOWS & TEES
	FLEX CONNECTION		SIZE SHOWN IS CLEAR AIR PASSAGE
	ACOUSTICAL LINER		
	LESS THAN 15°		15° TO 30°
	GREATER THAN 30°		
DUCT OFFSETS			
	30° MAX		30° MAX
	RECTANGULAR TO ROUND		
TRANSITIONS			
	45°		4" MIN OR 1/4" W OR 12" MAX
	RECTANGULAR DUCT FITTING		
	SPIN-IN FITTING		CONICAL SPIN-IN FITTING
RECTANGULAR TO ROUND FITTING			

REGISTERED PROFESSIONAL
18806
John C. Yousey
OREGON
SINCE 17, 1985
JOHN C. YOUSEY

Project Status
PERMIT/IBD ISSUE

Expires

SYMBOLS, LEGENDS & ABBREVIATIONS - MECH.

FERN RIDGE MIDDLE SCHOOL

INTERIOR ALTERATIONS

M0.1

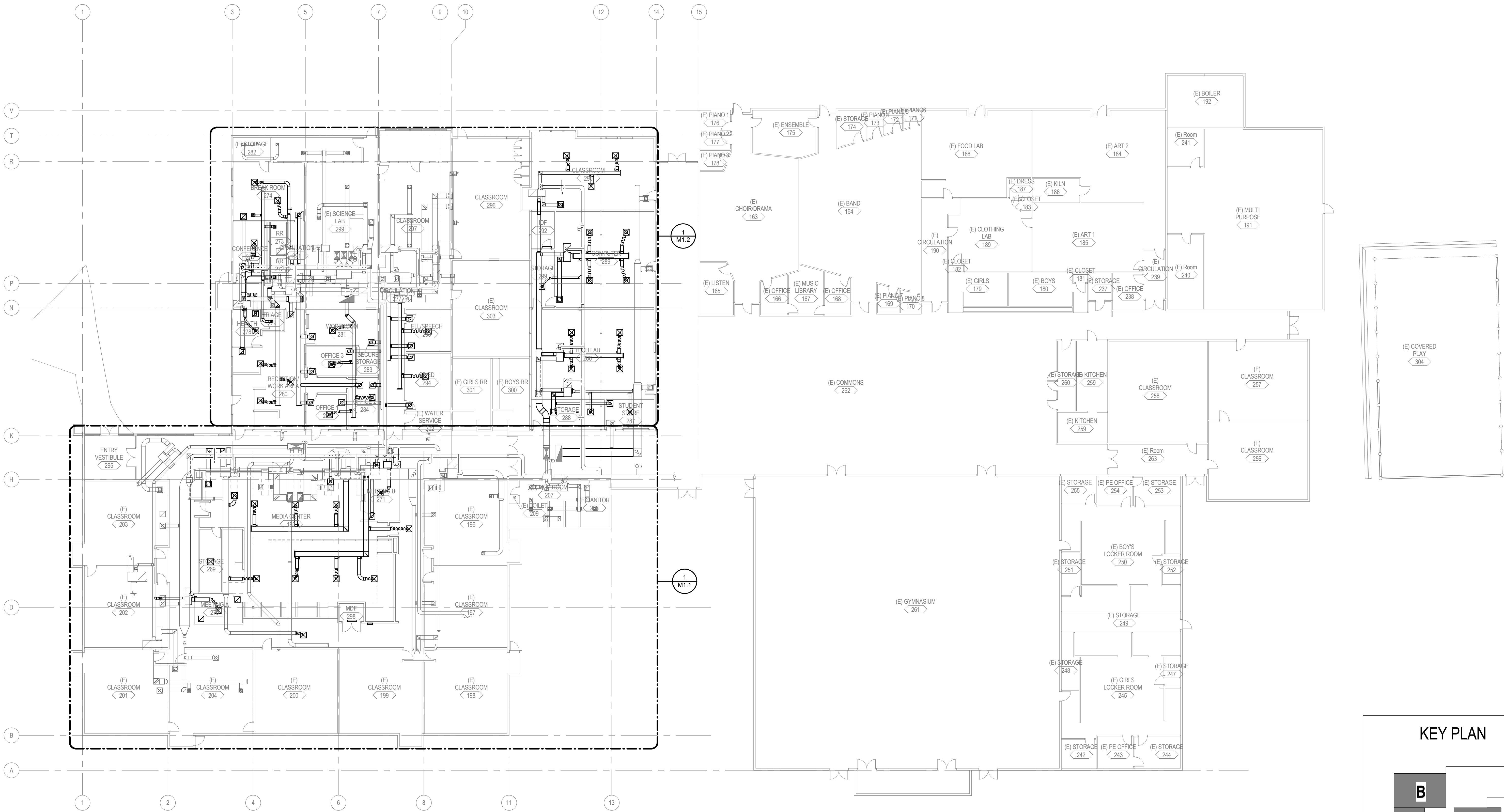
74-13107-30
Issue Date
REVISIONS

PAE

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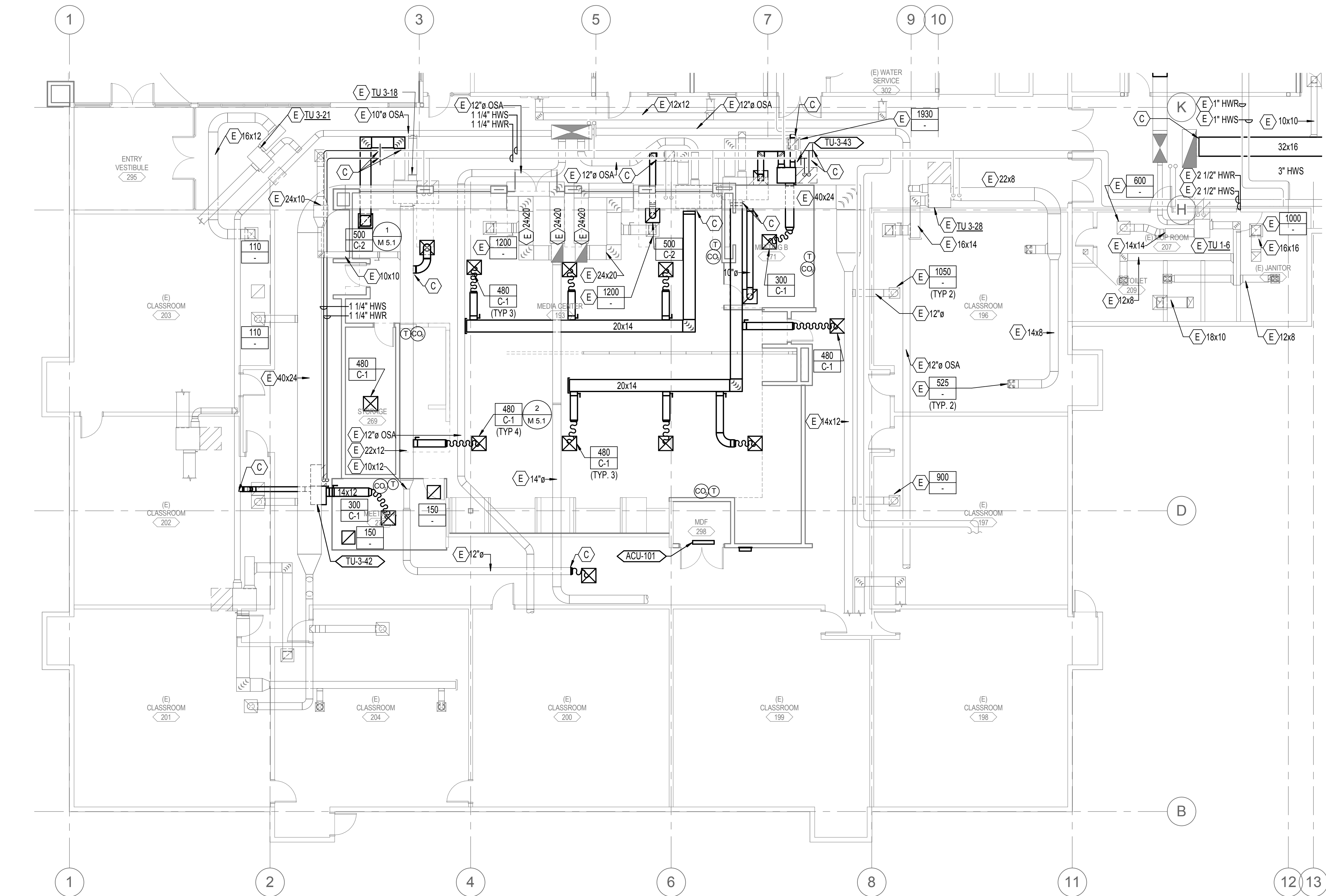
1 FLOOR PLAN - OVERALL - MECHANICAL
1/16" = 1'-0"

FLOOR PLAN - OVERALL - MECHANICAL
FERN RIDGE MIDDLE SCHOOL
INTERIOR ALTERATIONS

M1.0
74-13107-30
Issue Date
REVISIONS



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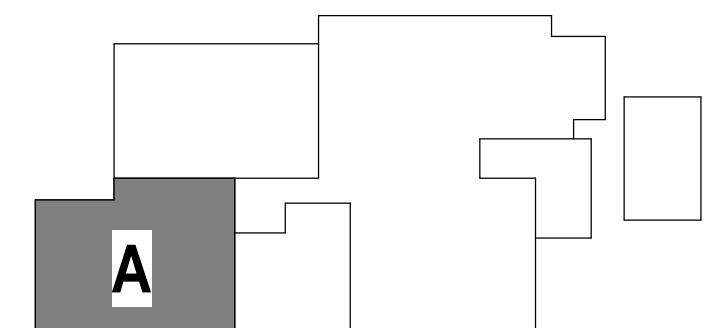


1 FLOOR PLAN - AREA A - MECHANICAL
1/8" = 1'-0"

GENERAL NOTES:

- PROVIDE VOLUME DAMPER AT EACH BRANCH OUTLET/INLET.
- RUN DUCTS CONCEALED, UNLESS SPECIFIED OTHERWISE, AND CLEAR OF CEILING INSERTS. ALL DUCTWORK SHALL BE INSTALLED AS CLOSE AS POSSIBLE TO WALL AND UNDERSIDE OF BEAMS AND JOISTS.
- ALL WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN PIPING AND DUCTS (INCLUDING DIVIDED DUCTS) AND TRANSITIONS AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- FIELD VERIFY AND COORDINATE ALL DIMENSIONS BEFORE FABRICATION.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF AIR DEVICES.
- ALL DETAILS APPLY TO THIS SHEET WHETHER TAGGED OR NOT.
- TERMINAL UNIT TAGS INDICATE TERMINAL UNIT IN SPACE. PROVIDE TERMINAL UNIT, CONTROLS, BRANCH DUCTWORK, AND DIFFUSERS.
- ALL NEW EQUIPMENT SHALL BE CONTROLLED VIA EXISTING BUILDING'S DDC SYSTEM.
- WHERE POSSIBLE, INSTALL NEW DUCTS BELOW EXISTING CEILING AND ABOVE NEW CEILING FOR BOX IN BOX OFFICES. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION.

KEY PLAN



REGISTERED PROFESSIONAL
18806
John C. Youst
OREGON
Exp. 17, 1995
4/29/15
EXPRES

Project Status
PERMIT/BID ISSUE

FLOOR PLAN - AREA A - MECHANICAL
FERN RIDGE MIDDLE SCHOOL
INTERIOR ALTERATIONS

M1.1
74-13107-30
Issue Date
REVISIONS

PAE

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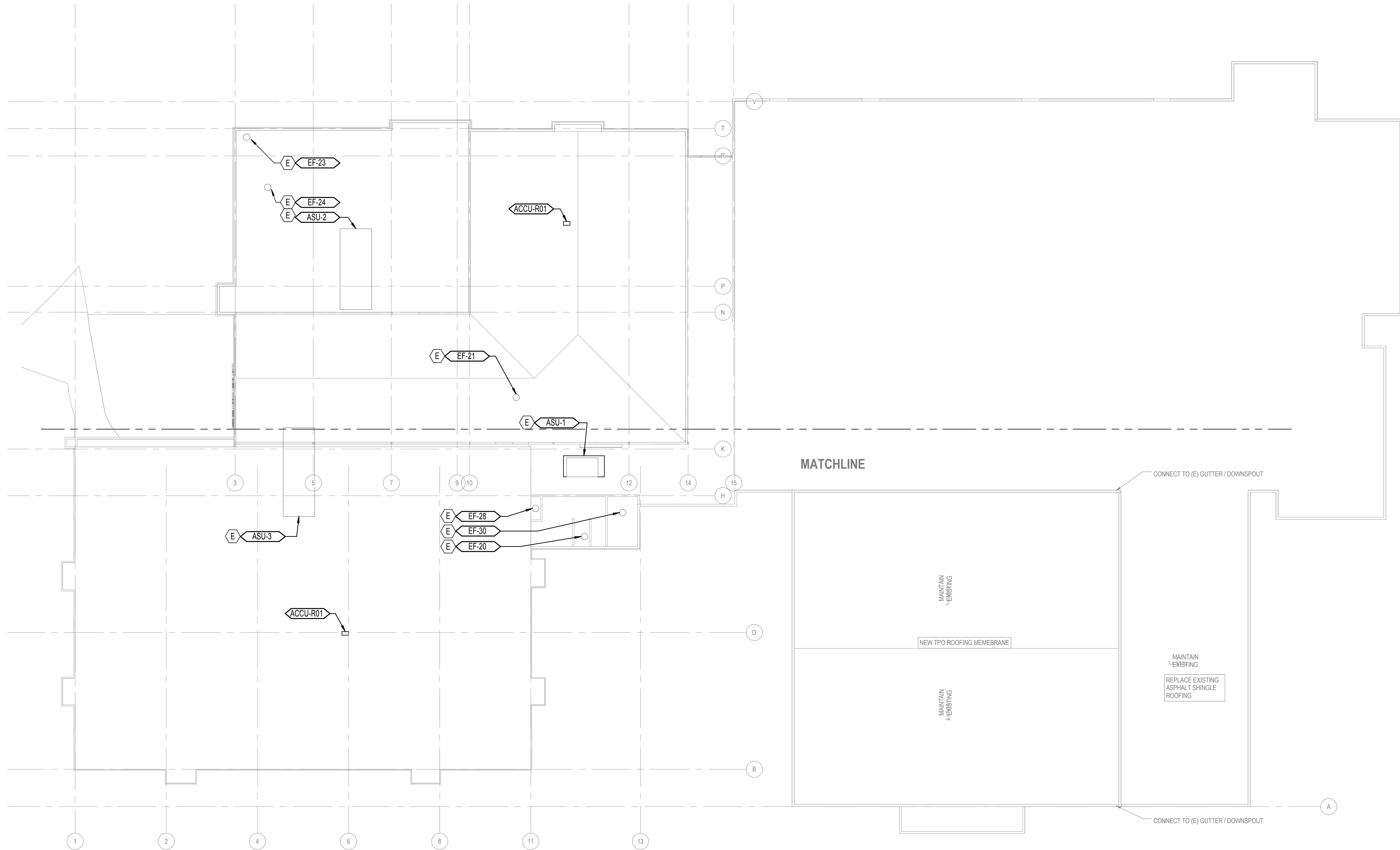


1. ROUTE CONDENSATE TO FLOOR DRAIN IN WATER SERVICE 302.



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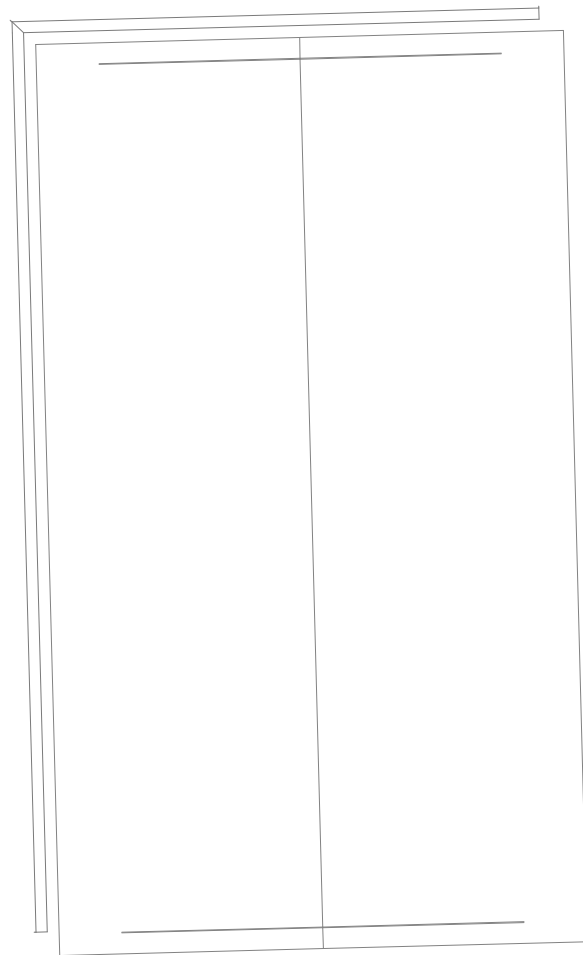
1 ROOF PLAN - OVERALL - MECHANICAL
1/16" = 1'-0"



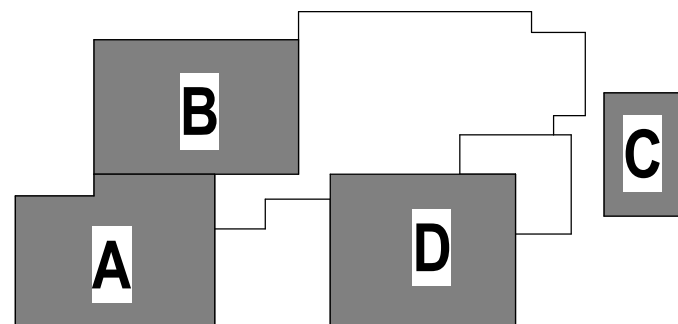
GENERAL NOTES:

- A. PROVIDE TRANSFER OPENINGS FOR RETURN AIR SIZED AT 300 FPM IN FULL HEIGHT WALLS; SEE ARCHITECTURAL DRAWINGS.
- B. PROVIDE VOLUME DAMPER AT EACH BRANCH OUTLET/INLET.
- C. RUN DUCTS CONCEALED, UNLESS SPECIFIED OTHERWISE, AND CLEAR OF CEILING INSERTS. ALL DUCTWORK SHALL BE INSTALLED AS CLOSE AS POSSIBLE TO WALL AND UNDERSIDE OF BEAMS AND JOISTS.
- D. ALL WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN PIPING AND DUCTS (INCLUDING DIVIDED DUCTS) AND TRANSITIONS AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- E. FIELD VERIFY AND COORDINATE ALL DIMENSIONS BEFORE FABRICATION.
- F. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF AIR DEVICES.
- G. ALL DETAILS APPLY TO THIS SHEET WHETHER TAGGED OR NOT.
- H. TERMINAL UNIT TAGS INDICATE TERMINAL UNIT IN SPACE. PROVIDE TERMINAL UNIT, CONTROLS, BRANCH DUCTWORK, AND DIFFUSERS.
- I. ALL NEW EQUIPMENT SHALL BE CONTROLLED VIA EXISTING BUILDING'S DDC SYSTEM.
- J. BOLD DASHED LINES INDICATE NEW THERMAL ZONES.
- K. WHERE POSSIBLE, INSTALL NEW DUCTS BELOW EXISTING CEILING AND ABOVE NEW CEILING FOR BOX IN BOX OFFICES. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION.
- L. ALL OFFICES, MEETING ROOMS, CONFERENCE ROOMS, AND OTHER EXCLOSED ROOMS REQUIRE AN ACCOUSTIC TRANSFER BOOT. REFER TO MECHANICAL DETAILS FOR MORE INFORMATION.
- M. RELOCATE EXISTING GRILLES AS REQUIRED TO ACCOMODATE NEW FLOOR PLAN AND CEILING GRID.

NOTES:
1.XXX



KEY PLAN



18806
JOHN C. YOUSSEY
EXPIRES 4/29/15

Project Status
PERMIT/BID ISSUE

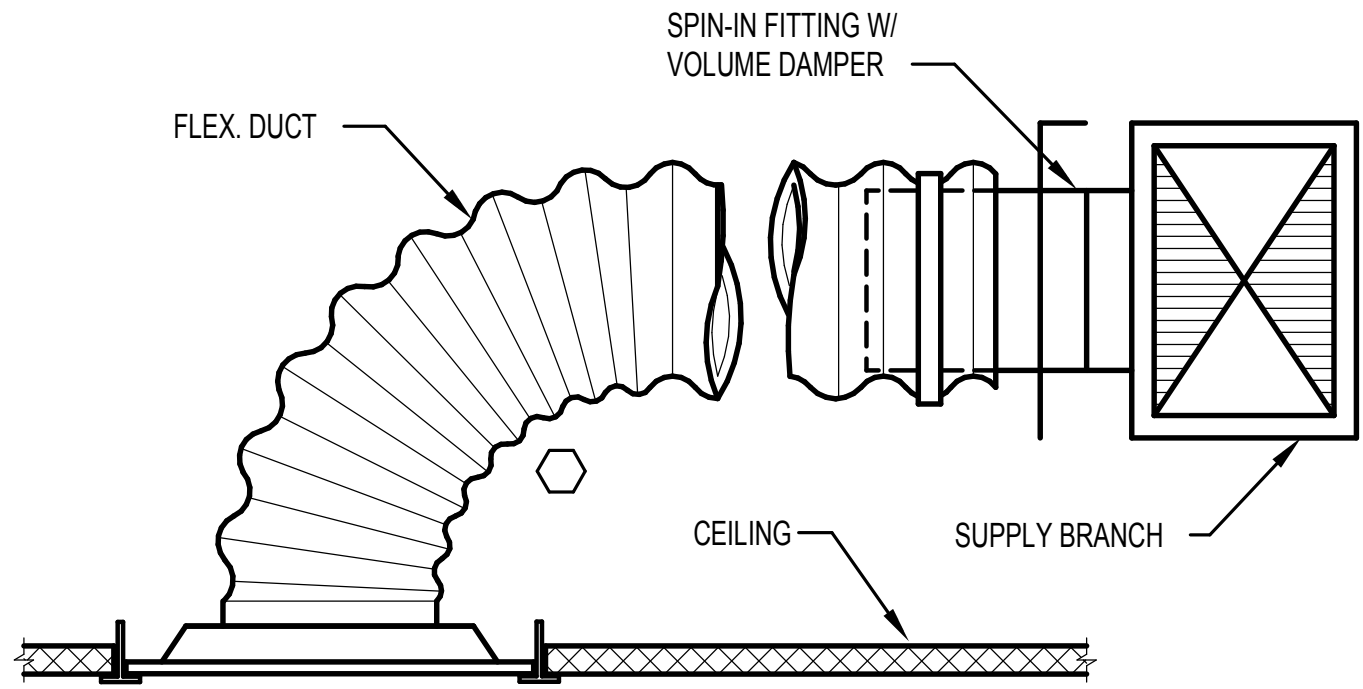
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Issue Date
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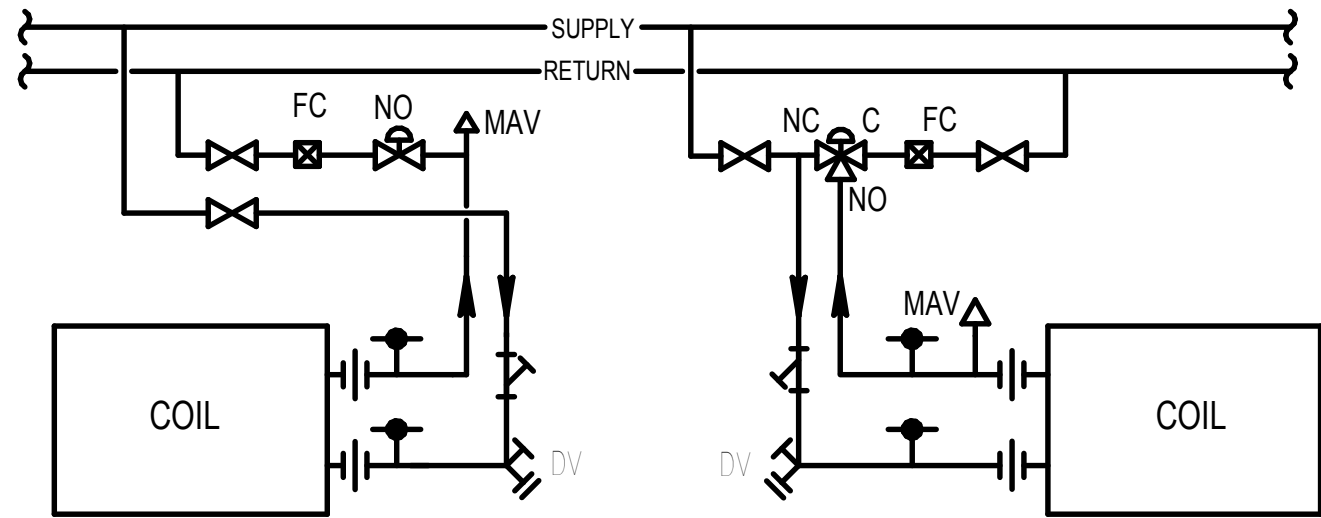
NOTES:

- ① 1.5 DIA. MINIMUM FLEX DUCT RADIUS (4' MAX LENGTH).
WHERE 1.5 DIA. TURN CAN NOT BE MET USE DETAIL 2/M5.1

4
M5.1

TYPICAL ROUND
NECK T-BAR DIFFUSER

SCALE: NONE



2-WAY VALVE

TYPICAL EXCEPT WHERE NOTED

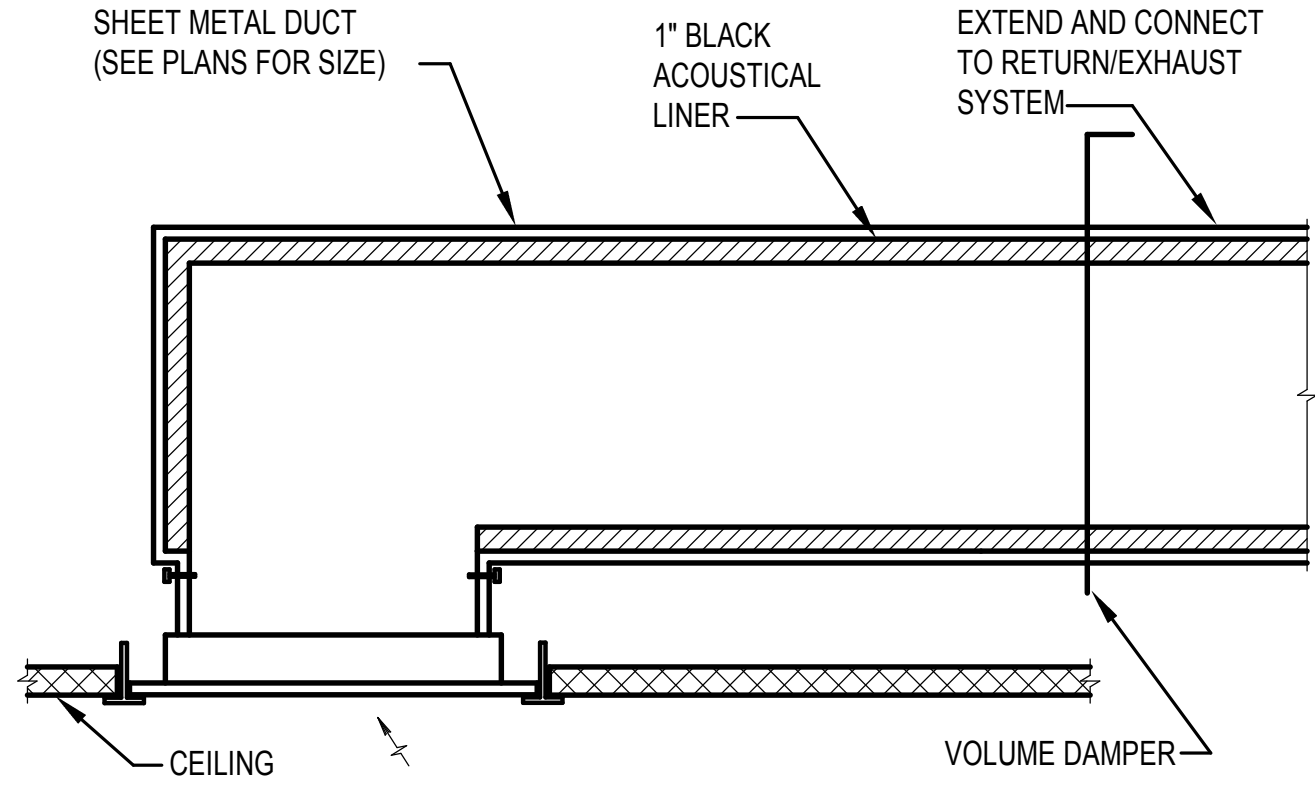
3-WAY VALVE

USE ONLY WHERE NOTED

5
M5.1

REHEAT COIL PIPING DETAIL

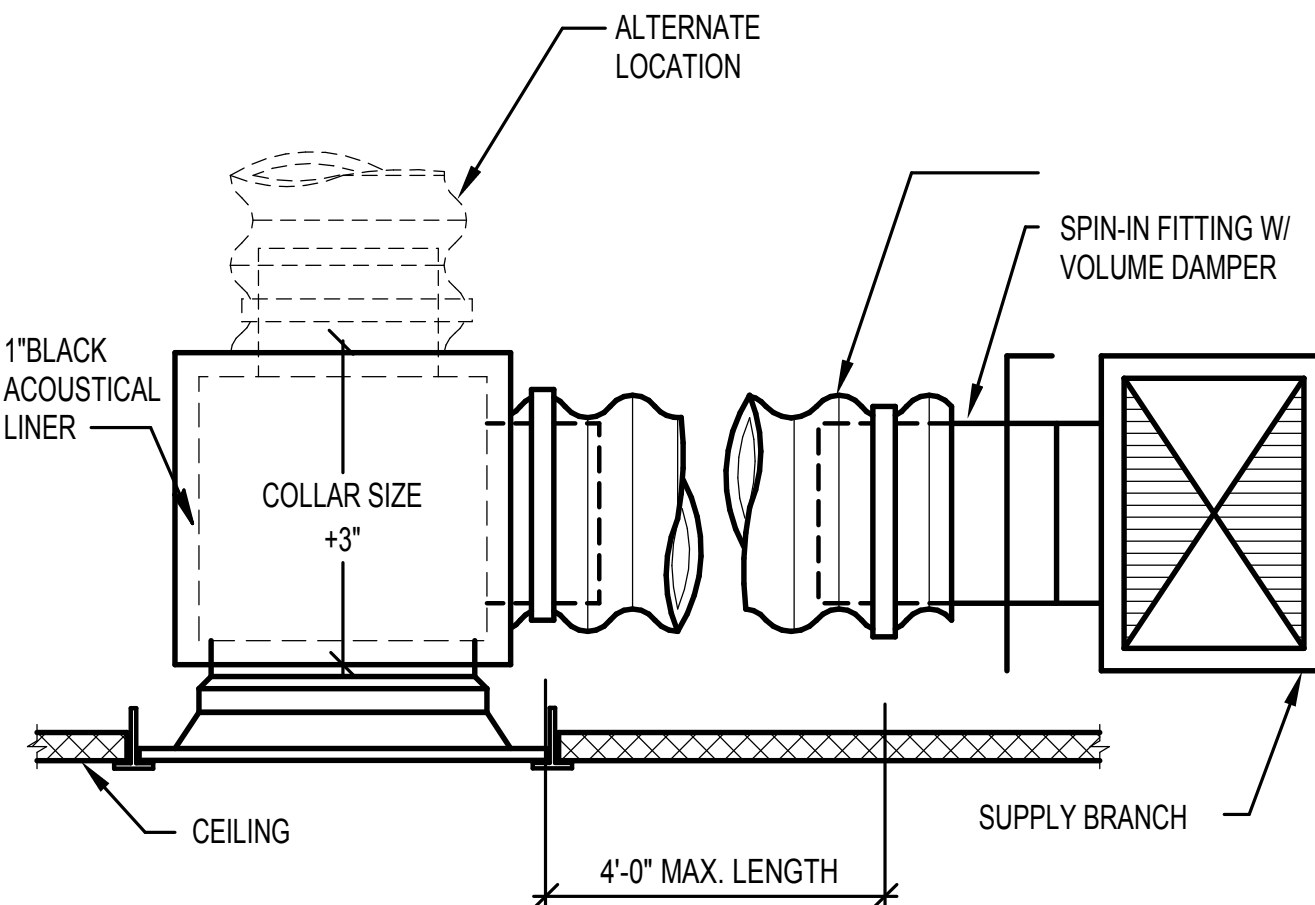
SCALE: NONE



1
M5.1

DUCTED RETURN/EXHAUST GRILLE

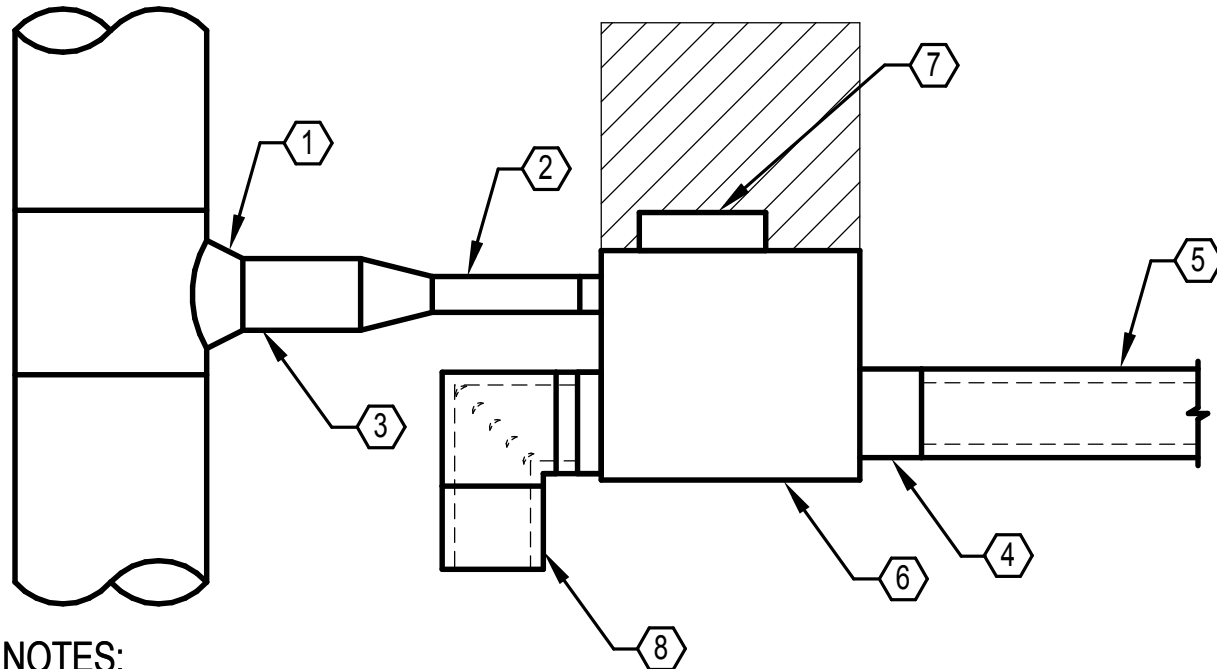
SCALE: NONE



2
M5.1

TYPICAL SQUARE NECK
T-BAR DIFFUSER

SCALE: NONE



NOTES:

- ① CONICAL TEE
- ② INLET DUCT. MINIMUM STRAIGHT LENGTH = 3'-0".
DUCT SIZE TO BE SAME SIZE AS TERMINAL UNIT INLET FILTER GRILLE.
FLEXIBLE DUCT CONNECTIONS ARE NOT ALLOWED.
- ③ BRANCH DUCT. IF UNDER 10'-0" IN LENGTH,
DUCT SIZE TO BE SAME SIZE AS TERMINAL UNIT
INLET. IF LENGTH IS 10'-0" OR OVER, DUCT SIZE TO BE
AS SHOWN ON PLAN.
- ④ HEATING COIL WHERE INDICATED.
- ⑤ DISCHARGE DUCT TO BE 1" LINED SHEET METAL, MINIMUM
8'-0" LONG, SAME SIZE AS TERMINAL UNIT OUTLET, OR
AS SHOWN ON PLAN, WHICHEVER IS LARGER.
- ⑥ FAN POWERED TERMINAL UNIT. SUSPEND WITH THREADED
ROD AND NEOPRENE VIBRATION ISOLATION HANGERS.
- ⑦ CONTROL ENCLOSURE. PROVIDE 36" CLEARANCE DIRECTLY IN
FRONT OF ENCLOSURE, MOUNT CONTROLS CONNECTIONS AND PIPING
ON SAME SIDE OF UNIT.
- ⑧ LINE ENTIRE RETURN DUCT FROM FILTER GRILLE TO TERMINAL UNIT.

3
M5.1

FAN POWERED TERMINAL UNIT

SCALE: NONE

AIR HANDLING UNIT																																		
TAG NUMBER	LOCATION	MIXING BOX		SUPPLY FAN							RETURN/EXHAUST FAN							AIR COOLED CONDENSER FAN			HYDRONIC HEATING COIL					DX REFRIGERANT COIL				APPROX. WEIGHT (LBS)	MANUFACTURER TRANE MODEL	NOTES		
		MAX OSA CFM	MIN OSA CFM	AIRFLOW CFM	FAN TYPE	TSP (IN WG)	FAN RPM	MOTOR HP	VOLT/ PHASE	VFD	AIRFLOW CFM	FAN TYPE	TSP (IN WG)	FAN RPM	MOTOR HP	VOLT/ PHASE	VFD	QTY	MOTOR FLA	VOLT/ PHASE	EAT (°F)	LAT (°F)	GPM	EWT (°F) (°F)	MIN WTD (°F)	COOLING		EFFICIENCY						
																										EAT		LAT					EER	IPLV
																										°F DB/WB	°F DB/WB							
(E) ASU-1	ROOF	-	2,170	4,560	CENTRIFUGAL	1.8	1,040	5.0	460/3	-	-	PROP	-	1,040	3/4	460/3	-	2	1.6	460/1	39.0	58.0	6.3	180	30	83/64.4	57/54	11.3	12.1	1,880	TRANE TCD 151C	1		
(E) ASU-2	ROOF	-	4,800	10,000	CENTRIFUGAL	2.5	1,135	10.0	460/3	YES	7,400	CENTRIFUGAL	0.5	600	3.0	460/3	-	3	1.8	460/3	24.0	58.0	11.8	180	30	80/65	57/55	9.8	12.1	5,350	TRANE SLHF C25	1		
(E) ASU-3	ROOF	-	6,040	15,500	CENTRIFUGAL	3.0	957	20.0	460/3	YES	14,500	CENTRIFUGAL	0.5	542	5.0	460/3	-	4	1.8	460/3	24.0	58.0	17.1	180	30	81/64.8	57/54.8	9.8	11.7	7,910	TRANE SLHF C40	1		
GENERAL NOTES: A. MINIMUM OSA CALCULATED BASED ON CODE AND ASHRAE STANDARD 62. NOTES: 1. EXISTING VAV PACKAGED ROOFTOP UNIT																																		

TERMINAL UNIT SCHEDULE																	
TAG NUMBER	LOCATION	SERVICE	TYPE	PRIMARY AIR				HYDRONIC COIL				FAN				MANUFACTURER & MODEL	NOTES
				INLET (IN)	MAX CFM	HEATING CFM	MIN CFM	MBH	EAT	LAT	GPM	CFM	ESP (IN. WG)	HP	VOLT/ PHASE		
(E) TU-1-1	CLASSROOM	CLASSROOM	FPS	10	1020	1020	630	27.9	65	89	1.9	1020	3/8	1/2	277/1	ENVIROTEC CFR	4,1
TU-1-2	COMPUTER	COMPUTER	FPS	14	1880	500	500	8.8	65	81	0.6	1880	3/8	1	277/1	TITUS TFS	1
TU-1-3	TECH LAB	STUDENT STORE	FPS	6	200	100	100	2.0	65	83	0.3	200	3/8	1/6	277/1	TITUS TFS	
TU-1-4	TECH LAB	TECH LAB	FPS	10	1000	500	500	5.1	65	74	0.3	1000	3/8	1/2	277/1	TITUS TFS	1
(E) TU-1-6	MOP ROOM	JANITOR	FPS	8	600	600	600	16.3	58	80	1.1	600	3/8	1/4	277/1	ENVIROTEC CFR	4
(E) TU-2-7	CLASSROOM	ANIMAL	FPS	6	250	250	110	7.9	65	83	0.6	250	3/8	1/13	277/1	ENVIROTEC CFR	4
(E) TU-2-8	CIRCULATION	BREAK ROOM	FPS	12	700	690	210	14.8	65	85	1.0	700	3/8	(2) 1/2	277/1	ENVIROTEC CFR	4
(E) TU-2-9	CLASSROOM	CLASSROOM	FPS	12	1600	1600	610	22.5	67	80	1.5	1600	3/8	(2) 1/2	277/1	ENVIROTEC CFR	4
(E) TU-2-10	CLASSROOM	CLASSROOM	FPS	10	1200	1200	555	24.7	67	80	1.7	1200	3/8	1/2	277/1	ENVIROTEC CFR	4
(E) TU-2-11	CLASSROOM	CLASSROOM	FPS	10	900	900	615	14.7	65	86	1.0	900	3/8	1/2	277/1	ENVIROTEC CFR	4
(E) TU-2-12	CIRCULATION	CIRCULATION	FPS	8	440	440	340	9.1	61	80	0.6	440	3/8	1/6	277/1	ENVIROTEC CFR	4
(E) TU-2-13	CLASSROOM	CLASSROOM	FPS	8	700	700	510	11.4	65	80	0.8	700	3/8	1/4	277/1	ENVIROTEC CFR	4
(E) TU-2-14	CIRCULATION	RECEPTION	FPS	10	1090	950	220	20.6	65	85	1.4	1090	3/8	1/2	277/1	ENVIROTEC CFR	4
(E) TU-2-15	CIRCULATION	OFFICES	FPS	10	500	340	110	5.2	65	79	0.3	500	3/8	1/2	277/1	ENVIROTEC CFR	4
(E) TU-2-16	CIRCULATION	ELL, SP ED	FPS	10	1000	1000	305	14.1	67	80	1.0	1000	3/8	1/2	277/1	ENVIROTEC CFR	4
(E) TU-3-17	CIRCULATION	CLASSROOM	FPS	10	900	900	450	14.6	65	80	1.0	900	3/8	1/2	277/1	ENVIROTEC CFR	4
(E) TU-3-18	MEDIA CENTER	MEDIA CENTER	FPS	14	1930	1930	965	33.5	64	80	2.3	1930	3/8	1	277/1	ENVIROTEC CFRQ	4
(E) TU-3-19	MEDIA CENTER	MEDIA CENTER	FPS	14	1930	1930	965	33.5	64	80	2.3	1930	3/8	1	277/1	ENVIROTEC CFRQ	4
(E) TU-3-20	MEDIA CENTER	MEDIA CENTER	FPS	14	1930	1930	965	33.5	64	80	2.3	1930	3/8	1	277/1	ENVIROTEC CFRQ	4
(E) TU-3-21	CIRCULATION	CLASSROOM	FPS	10	1110	1110	450	21.7	66	84	1.5	1110	3/8	1/2	277/1	ENVIROTEC CFRQ	4
TU-2-40	CONFERENCE	CONFERENCE	FPS	6	330	280	90	6.1	65	85	0.4	330	3/8	1/6	277/1	TITUS TFS	1
TU-2-41	CIRCULATION	HEALTH	FPS	6	210	210	40	4.5	65	85	0.3	210	3/8	1/13	277/1	TITUS TFS	
TU-3-42	CIRCULATION	MEETING A	FPS	6	300	70	70	1.3	65	83	0.3	300	3/8	1/13	277/1	TITUS TFS	1
TU-3-43	CIRCULATION	MEETING B	FPS	6	300	90	70	1.8	65	84	0.3	300	3/8	1/13	277/1	TITUS TFS	1
<u>GENERAL NOTES:</u> A. PRIMARY AIR TEMPERATURE 55°F (SUMMER), 65°F (WINTER). B. AIR PRESSURE DROP THROUGH TERMINAL UNIT TO BE NO GREATER THAN 0.25 IN.WG. C. PROVIDE FAN-POWERED BOXES WITH EC MOTORS. D. HYDRONIC HEATING COIL CAPACITY BASED ON 180°F ENTERING WATER TEMPERATURE AND 150°F LEAVING WATER TEMPERATURE. <u>NOTES:</u> 1. CO2 SENSOR LOCATED ADJACENT TO THERMOSTAT. 2. OCCUPANCY SENSOR LOCATED WITHIN SPACE. 3. 3-WAY CONTROL VALVE ON REHEAT COIL. 4. EXISTING TERMINAL UNIT TO REMAIN. <u>KEY:</u> FPS = FAN POWERED SERIES BOX																	

DESIGN CONDITIONS - EUGENE, OR				
SPACE	WINTER		SUMMER	
	TEMPERATURE	HUMIDITY	TEMPERATURE	HUMIDITY
OUTDOOR	23.4° F DB	16.1° F DP / 12.6 HR / 26.9° F MCD B	91.7° F DB / 66.5° F MCWB	62.2° F DP / 84.8 HR / 74.6° F MCD B
INDOOR	70° F ± 2° F DB	50% RH MAX, NO MINIMUM	75° F ± 2° F DB	50% RH MAX, NO MINIMUM
GENERAL NOTES: 1. OUTDOOR CONDITIONS BASED ON ASHRAE FUNDAMENTALS 2013 99.6% AND 0.4% DATA.				

FAN SCHEDULE													
TAG NUMBER	LOCATION	SERVICE	TYPE	AIRFLOW				MOTOR		VFD	APPROX. WEIGHT (LBS)	MANUFACTURER & MODEL	NOTES
				HIGH CFM	LOW CFM	TSP (IN WG)	FAN RPM	HP	VOLT/ PHASE				
(E) EF-20	ROOF	207 MOP ROOM	DOWNBLAST	650	-	0.50	1210	1/4	120/1	-	-	GREENHECK GB-100	
(E) EF-21	ROOF	300 & 301 RESTROOMS	DOWNBLAST	1,000	-	0.50	929	1/4	120/1	-	-	GREENHECK GB-140	
(E) EF-23	ROOF	282 STORAGE	DOWNBLAST	750	-	0.50	1271	1/4	120/1	-	-	GREENHECK GB-100	
(E) EF-24	ROOF	272 & 273 RESTROOMS	DOWNBLAST	400	-	0.50	521	1/2	120/1	-	-	GREENHECK GB-240	1
(E) EF-28	ROOF	209 TOILET	CEILING	100	-	0.25	1100	53 W	120/1	-	-	GREENHECK SP-216	
(E) EF-30	ROOF	208 JANITOR	DOWNBLAST	1,000	-	0.50	929	1/4	120/1	-	-	GREENHECK GB-140	
GENERAL NOTES: A. EXISTING FAN DATA TAKEN FROM EXISTING DRAWINGS AND LISTED FOR REFERENCE ONLY. NOTES: 1. REBALANCE EXISTING FAN													

REGISTERED PROFESSIONAL
18806
John C. Yousef
OREGON
Exp. 17, 1925
JOHN C. YOUSEF

4/29/15

Project Status
PERMIT/BID ISSUE

EXPRES

SCHEDULES - MECHANICAL
FERN RIDGE MIDDLE SCHOOL
INTERIOR ALTERATIONS

M6.1
74-13107-30
Issue Date
REVISIONS

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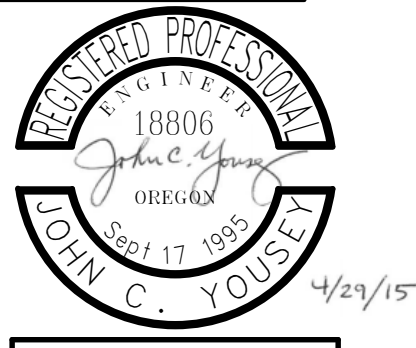
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VENTILATION SCHEDULE - MULTIPLE SPACES - OREGON													
ASU-1													
LOCATION	FLOOR AREA (SF)	PRIMARY AIRFLOW RATE (CFM)	OCCUPANCY CLASSIFICATION	PEOPLE OUTDOOR AIRFLOW RATE Rp (CFM/PERSON)	AREA OUTDOOR AIRFLOW RATE Ra (CFM/SF)	DEFAULT OCCUPANT DENSITY (PEOPLE/1000SF)	CODE POPULATION	DESIGN POPULATION	OUTDOOR AIRFLOW RATE Vbz (CFM)	ZONE AIR DISTRIBUTION EFFECTIVENESS Ez	OUTDOOR AIR INTAKE Voz (CFM)	PRIMARY OUTDOOR AIR FRACTION Zp	NOTES
1-01 CLASSROOM	990	630	CLASSROOMS (AGE 9 PLUS)	10	0.12	35	34.7	35.0	468.8	1.0	469	0.74	
1-02 COMPUTER	1170	500	COMPUTER (WITHOUT PRINTING)	5	0.06	4	4.7	35.0	245.2	1.0	246	0.49	
1-03 STUDENT STORE	390	100	SALES (EXCEPT AT BELOW)	8	0.12	15	5.9	2.0	61.8	1.0	62	0.62	
1-04 TECH LAB	1170	500	COMPUTER (WITHOUT PRINTING)	5	0.06	4	4.7	35.0	245.2	1.0	246	0.49	
1-06 JANITOR	500	600	STORAGE	0	0.00	0	0.0	0.0	0.0	1.0	0	0.00	
TOTALS:	4220	2330					50	107	1021		1023	Zp max = 0.74	
TOTAL AIRFLOW: 2330 SYSTEM POPULATION: 84 SYSTEM VENTILATION EFFICIENCY - Ev: 0.40 OCCUPANT DIVERSITY - D: 0.79 UNCORRECTED OUTDOOR AIR INTAKE - Vou: 867 CODE REQUIRED OUTDOOR AIR INTAKE FLOWRATE - Vot: 2,165													
GENERAL NOTES: 1. SYSTEM OUTDOOR AIR CALCULATION IS BASED ON THE SECTION 403 OF THE 2010 OREGON MECHANICAL SPECIALTY CODE. 2. REFER TO AIR HANDLING UNIT SCHEDULE FOR ACTUAL OUTDOOR AIR FLOW RATE. NOTES: A. DESIGN OCCUPANCY REPRESENTS THE AVERAGE OCCUPANCY, WHICH IS NOT LESS THAN 1/2 THE CODE OCCUPANCY.													

VENTILATION SCHEDULE - MULTIPLE SPACES - OREGON													
ASU-2													
LOCATION	FLOOR AREA (SF)	PRIMARY AIRFLOW RATE (CFM)	OCCUPANCY CLASSIFICATION	PEOPLE OUTDOOR AIRFLOW RATE Rp (CFM/PERSON)	AREA OUTDOOR AIRFLOW RATE Ra (CFM/SF)	DEFAULT OCCUPANT DENSITY (PEOPLE/1000SF)	CODE POPULATION	DESIGN POPULATION	OUTDOOR AIRFLOW RATE Vbz (CFM)	ZONE AIR DISTRIBUTION EFFECTIVENESS Ez	OUTDOOR AIR INTAKE Voz (CFM)	PRIMARY OUTDOOR AIR FRACTION Zp	NOTES
2-07 STORAGE	230	110	STORAGE ROOMS	--	0.12	--	0.0	-	27.6	1.0	28	0.25	
2-08 BREAKROOM	770	350	CAFETERIA, FAST FOOD	8	0.18	100	77.0	16.0	258.6	1.0	259	0.74	
2-09 CLASSROOM	960	610	CLASSROOMS (AGE 9 PLUS)	10	0.12	35	33.6	33.6	451.2	1.0	452	0.74	
2-10 CLASSROOM	870	555	CLASSROOMS (AGE 9 PLUS)	10	0.12	35	30.5	30.5	408.9	1.0	409	0.74	
2-11 CLASSROOM	970	615	CLASSROOMS (AGE 9 PLUS)	10	0.12	35	34.0	34.0	455.9	1.0	456	0.74	
2-12 CIRCULATION	980	340	CORRIDORS	--	0.06	--	0.0	-	58.8	1.0	59	0.17	
2-13 CLASSROOM	800	510	CLASSROOMS (AGE 9 PLUS)	10	0.12	35	28.0	28.0	376.0	1.0	376	0.74	
2-14 RECEPTION	820	220	RECEPTION AREAS	5	0.06	30	24.6	6.0	79.2	1.0	80	0.36	
2-15 OFFICE	820	110	OFFICE SPACES	5	0.06	5	4.1	4.0	69.2	1.0	70	0.64	
2-16 CLASSROOM	480	305	CLASSROOMS (AGE 9 PLUS)	10	0.12	35	16.8	16.8	225.6	1.0	226	0.74	
2-40 CONFERENCE	220	90	CONFERENCE ROOMS	5	0.06	50	11.0	10.0	63.2	1.0	64	0.71	
2-41 HEALTH	160	40	OFFICE SPACES	5	0.06	5	0.8	1.0	14.6	1.0	15	0.38	
TOTALS:	8080	3855					260	180	2489		2494	Zp max = 0.74	
TOTAL AIRFLOW: 5000 SYSTEM POPULATION: 120 SYSTEM VENTILATION EFFICIENCY - Ev: 0.40 OCCUPANT DIVERSITY - D: 0.67 UNCORRECTED OUTDOOR AIR INTAKE - Vou: 1,939 CODE REQUIRED OUTDOOR AIR INTAKE FLOWRATE - Vot: 4,805													
SYSTEM NOTES: 1. SYSTEM OUTDOOR AIR CALCULATION IS BASED ON THE SECTION 403 OF THE 2010 OREGON MECHANICAL SPECIALTY CODE. 2. REFER TO AIR HANDLING UNIT SCHEDULE FOR ACTUAL OUTDOOR AIR FLOW RATE. NOTES: A. DESIGN OCCUPANCY REPRESENTS THE AVERAGE OCCUPANCY, WHICH IS NOT LESS THAN 1/2 THE CODE OCCUPANCY.													



Project Status

EXPRES

PERMIT/BID ISSUE

SCHEDULES - MECHANICAL

FERN RIDGE MIDDLE SCHOOL

INTERIOR ALTERATIONS

M6.2

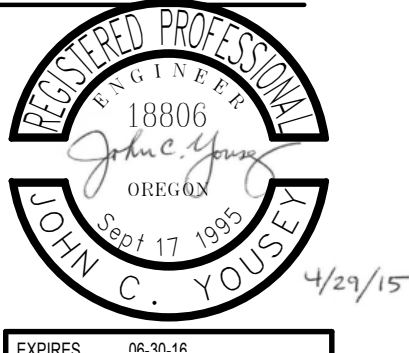
74-13107-30

Issue Date

REVISIONS



VENTILATION SCHEDULE - MULTIPLE SPACES - OREGON													
ASU-3													
LOCATION	FLOOR AREA (SF)	PRIMARY AIRFLOW RATE (CFM)	OCCUPANCY CLASSIFICATION	PEOPLE OUTDOOR AIRFLOW RATE Rp (CFM/PERSON)	AREA OUTDOOR AIRFLOW RATE Ra (CFM/SF)	DEFAULT OCCUPANT DENSITY (PEOPLE/1000SF)	CODE POPULATION	DESIGN POPULATION	OUTDOOR AIRFLOW RATE Vbz (CFM)	ZONE AIR DISTRIBUTION EFFECTIVENESS Ez	OUTDOOR AIR INTAKE Voz (CFM)	PRIMARY OUTDOOR AIR FRACTION Zp	NOTES
3-17 CLASSROOM	760	450	CLASSROOMS (AGE 9 PLUS)	10	0.12	35	26.6	24.0	331.2	1.0	332	0.74	
3-18 MEDIA CENTER	890	965	MEDIA CENTER	10	0.12	25	22.3	20.0	306.8	1.0	307	0.32	
3-19 MEDIA CENTER	890	965	MEDIA CENTER	10	0.12	25	22.3	20.0	306.8	1.0	307	0.32	
3-20 MEDIA CENTER	890	965	MEDIA CENTER	10	0.12	25	22.3	20.0	306.8	1.0	307	0.32	
3-21 CLASSROOM	760	450	CLASSROOMS (AGE 9 PLUS)	10	0.12	35	26.6	24.0	331.2	1.0	332	0.74	
3-22 CLASSROOM	700	450	CLASSROOMS (AGE 9 PLUS)	10	0.12	35	24.5	25.0	334.0	1.0	334	0.74	
3-23 CLASSROOM	760	450	CLASSROOMS (AGE 9 PLUS)	10	0.12	35	26.6	24.0	331.2	1.0	332	0.74	
3-24 CLASSROOM	750	450	CLASSROOMS (AGE 9 PLUS)	10	0.12	35	26.3	24.0	330.0	1.0	330	0.73	
3-25 CLASSROOM	760	450	CLASSROOMS (AGE 9 PLUS)	10	0.12	35	26.6	24.0	331.2	1.0	332	0.74	
3-26 CLASSROOM	760	450	CLASSROOMS (AGE 9 PLUS)	10	0.12	35	26.6	24.0	331.2	1.0	332	0.74	
3-27 CLASSROOM	700	450	CLASSROOMS (AGE 9 PLUS)	10	0.12	35	24.5	24.0	324.0	1.0	324	0.72	
3-28 CLASSROOM	770	450	CLASSROOMS (AGE 9 PLUS)	10	0.12	35	27.0	24.0	332.4	1.0	333	0.74	
3-42 MEETING	160	70	CONFERENCE ROOMS	5	0.06	50	8.0	8.0	49.6	1.0	50	0.71	
3-43 MEETING	200	70	CONFERENCE ROOMS	5	0.06	50	10.0	8.0	52.0	1.0	52	0.74	
TOTALS:	9750	7085					320	293	3998		4004	Zp max = 0.74	
TOTAL AIRFLOW: 7085 SYSTEM POPULATION: 84 SYSTEM VENTILATION EFFICIENCY - Ev: 0.40 OCCUPANT DIVERSITY - D: 0.29 UNCORRECTED OUTDOOR AIR INTAKE - Vou: 1,965 CODE REQUIRED OUTDOOR AIR INTAKE FLOWRATE - Vot: 4,887													
GENERAL NOTES: 1. SYSTEM OUTDOOR AIR CALCULATION IS BASED ON THE SECTION 403 OF THE 2010 OREGON MECHANICAL SPECIALTY CODE. 2. REFER TO AIR HANDLING UNIT SCHEDULE FOR ACTUAL OUTDOOR AIR FLOW RATE. NOTES: A. DESIGN OCCUPANCY REPRESENTS THE AVERAGE OCCUPANCY, WHICH IS NOT LESS THAN 1/2 THE CODE OCCUPANCY.													



Project Status

PERMIT/BID ISSU

SCHEDULES - MECHANICAL
FERN RIDGE MIDDLE SCHOOL
INTERIOR ALTERATIONS

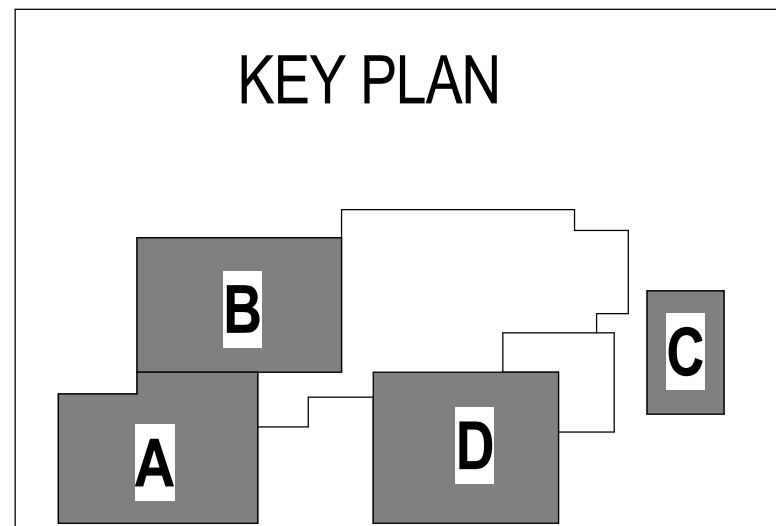
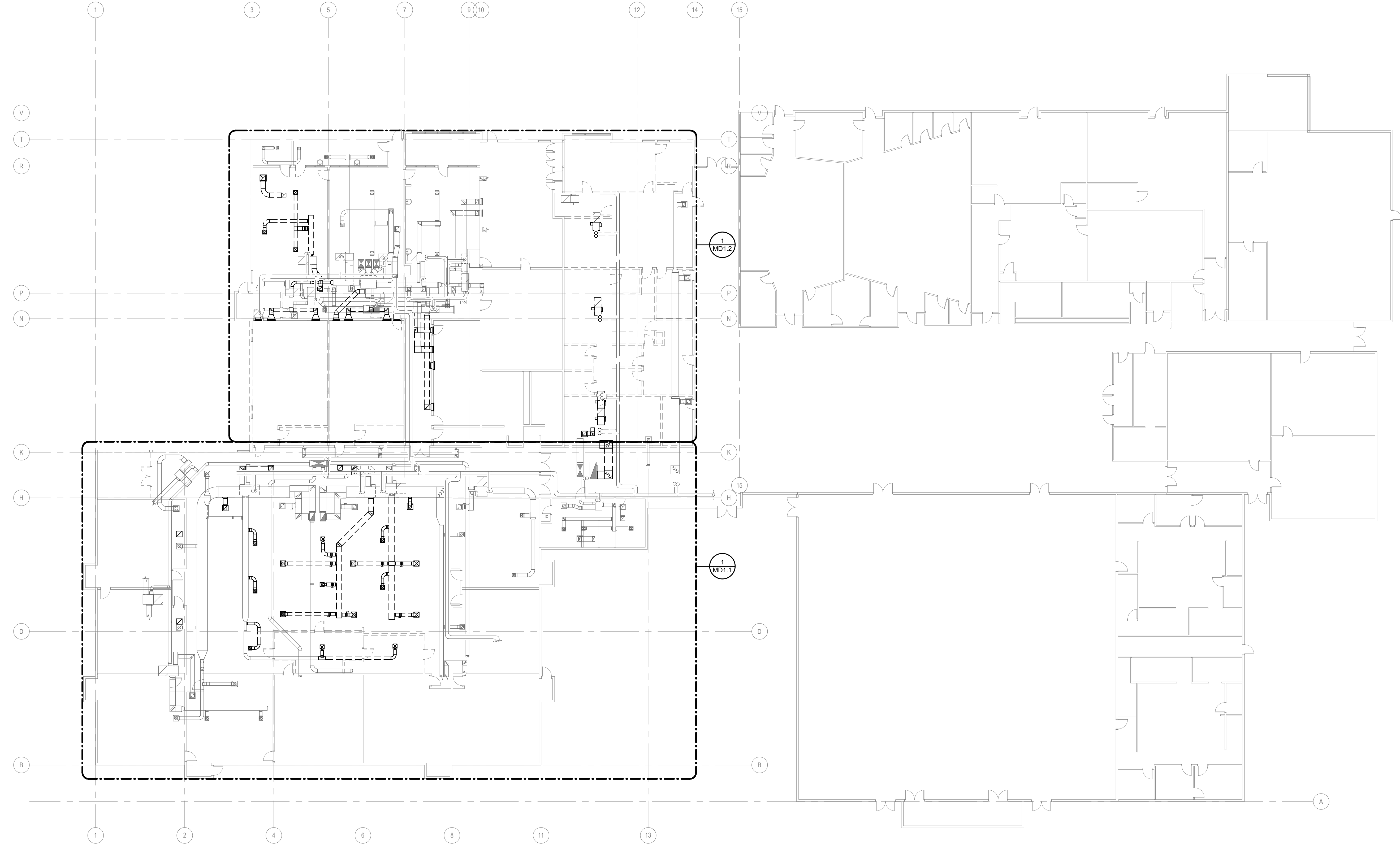
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74-13107-30
Issue Date
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1 DEMO FLOOR PLAN - OVERALL - MECHANICAL
1/16" = 1'-0"

Project Status
PERMIT/BID ISSUE

MD1.0
74-13107-30
Issue Date
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**DEMO FLOOR PLAN - OVERALL - MECHANICAL
FERN RIDGE MIDDLE SCHOOL
INTERIOR ALTERATIONS**

MD1.1
74-13107-30
Issue Date
REVISIONS

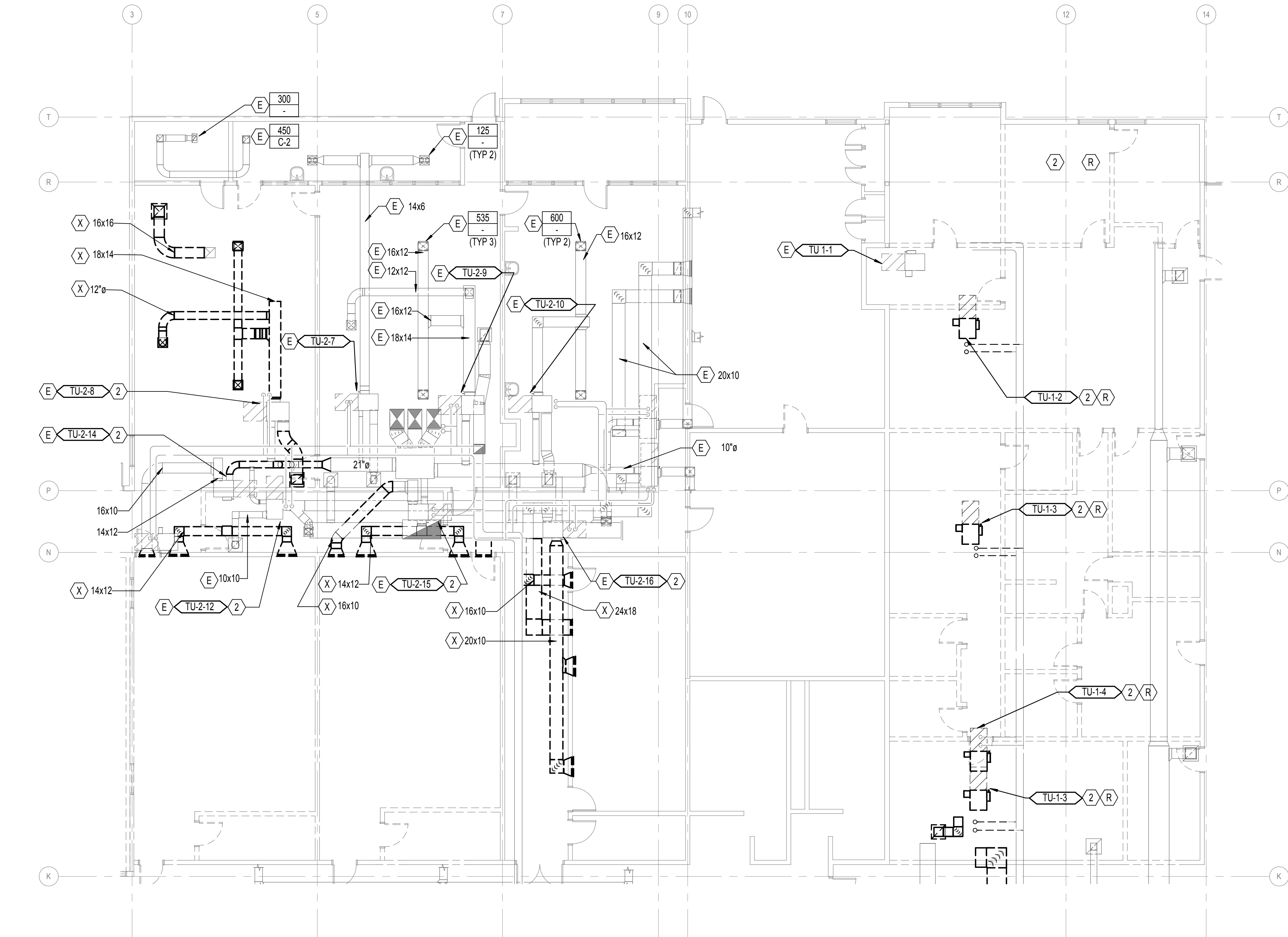


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D. REMOVE MECHANICAL EQUIPMENT, DUCTS, PIPING AND ASSOCIATED ITEMS AS SHOWN OR RELATED TO EQUIPMENT TO BE REMOVED. CAP DUCTWORK OR PIPING AT NEAREST LIVE BRANCH.

1. NOT USED
2. DEMO EXISTING DUCTWORK DOWNSTREAM OF
TERMINAL UNIT
3. DEMO ALL ASSOCIATED DUCTWORK AND GRILLES





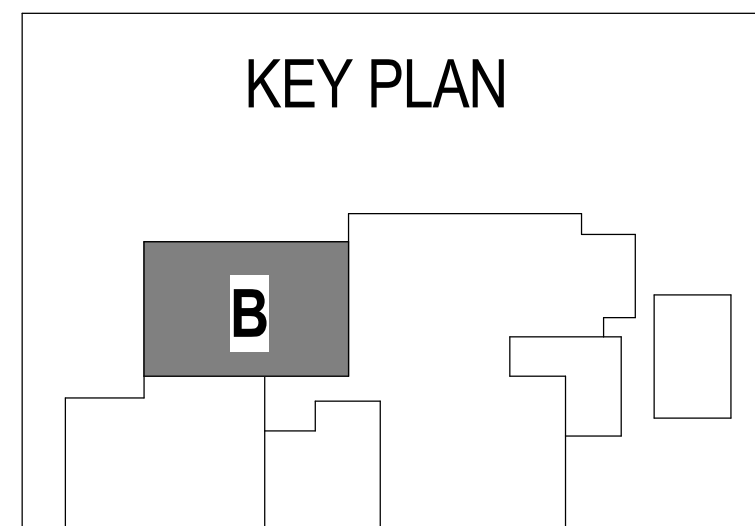
1 DEMO FLOOR PLAN - AREA B - MECHANICAL
1/8" = 1'-0"

GENERAL NOTES:

- A. ALL EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
- B. PATCH AND REPAIR ALL OPENINGS MADE BY REMOVALS. MINIMIZE DISTURBANCE TO EXISTING CEILING.
- C. DEMOLITION WORK SHALL INCLUDE BUT NOT LIMITED TO THE FOLLOWING: REMOVAL OF EQUIPMENT, SUPPORTS, ANCHORS, PIPING, DUCTWORK AND ALL APPURTENCES WHERE INDICATED ON THE PLANS.
- D. REMOVE MECHANICAL EQUIPMENT, DUCTS, PIPING AND ASSOCIATED ITEMS AS SHOWN OR RELATED TO EQUIPMENT TO BE REMOVED. CAP DUCTWORK OR PIPING AT NEAREST LIVE BRANCH.

NOTES:

1. NOT USED
2. DEMO EXISTING DUCTWORK DOWNSTREAM OF TERMINAL UNIT
3. DEMO ALL ASSOCIATED DUCTWORK AND GRILLES



18806
John C. Youst
OREGON
SINCE 17 1955
JOHN C. YOUTS
4/21/15
EXPIRES
Project Status
PERMIT/BID ISSUE

DEMO FLOOR PLAN - AREA B - MECHANICAL FERN RIDGE MIDDLE SCHOOL INTERIOR ALTERATIONS

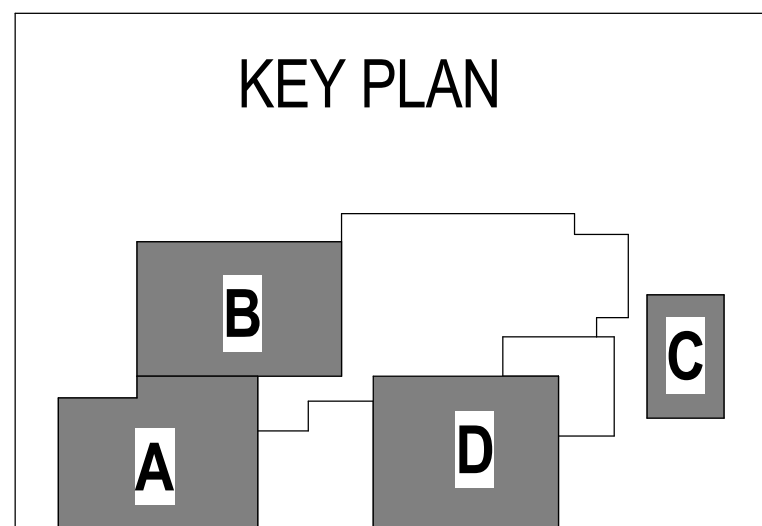
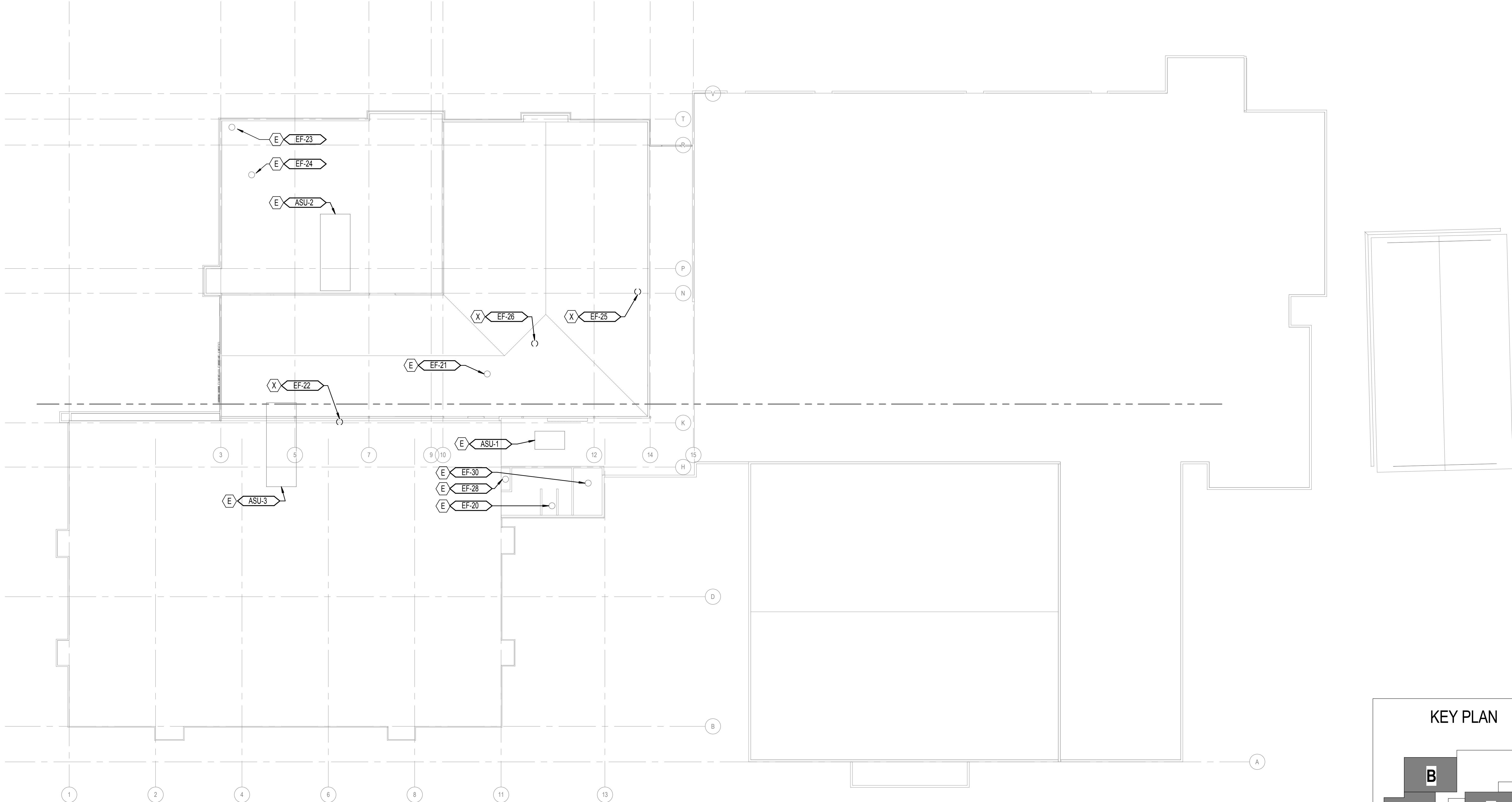
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1 DEMO ROOF PLAN - AREAS A&B - MECHANICAL
1/16" = 1'-0"



GENERAL NOTES:

- A. ALL EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
- B. PATCH AND REPAIR ALL OPENINGS MADE BY REMOVALS. MINIMIZE DISTURBANCE TO EXISTING CEILING.
- C. DEMOLITION WORK SHALL INCLUDE BUT NOT LIMITED TO THE FOLLOWING: REMOVAL OF EQUIPMENT, SUPPORTS, ANCHORS, PIPING, DUCTWORK AND ALL APPURTENCES WHERE INDICATED ON THE PLANS.
- D. REMOVE MECHANICAL EQUIPMENT, DUCTS, PIPING AND ASSOCIATED ITEMS AS SHOWN OR RELATED TO EQUIPMENT TO BE REMOVED. CAP DUCTWORK OR PIPING AT NEAREST LIVE BRANCH.

REGISTERED PROFESSIONAL
18806
John C. Yousey
OREGON
Exp. 17, 2025
JOHN C. YOUSEY

4/29/15

EXPIRES

Project Status
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DEMO ROOF PLAN - AREA A & B - MECHANICAL
FERN RIDGE MIDDLE SCHOOL
INTERIOR ALTERATIONS

STANDARD MECHANICAL ABBREVIATIONS			
AF	AIRFOIL	IE	INVERT ELEVATION
AFF	ABOVE FINISHED FLOOR	IN	INCH(ES)
AHP	APPARATUS HOUSING PLENUM	INSUL	INSULATION
ALT	ALTERNATIVE	ISOL	ISOLAT(OR)(ION)
AL	ALUMINUM	KW	KILOWATT
APD	AIR PRESSURE DROP	KWH	KILOWATT HOUR
APPROX	APPROXIMATELY	L	LENGTH
ARCH	ARCHITECT(URAL)	LAT	LEAVING AIR TEMP
AUTO	AUTOMATIC	LB	POUND
BDD	BACKDRAFT DAMPER	LDB	LEAVING DRY BULB
BI	BACKWARD INCLINED	LF	LINEAR FEET
BLDG	BUILDING	LFT	LEAVING FLUID TEMPERATURE
BSMT	BASEMENT	LVG	LEAVING
BTU	BRITISH THERMAL UNIT	LWB	LEAVING WET BULB
BTUH	BRITISH THERMAL UNITS PER HOUR	LWT	LEAVING WATER TEMPERATURE
CFH	CUBIC FEET PER HOUR	MAX	MAXIMUM
CFM	CUBIC FEET PER MINUTE	MBH	THOUSAND BTU PER HOUR
CFS	CUBIC FEET PER SECOND	MECH	MECHANICAL
CLG	CEILING OR COOLING	MFR	MANUFACTURER
CONC	CONCRETE	MIN	MINIMUM
CONN	CONNECT(ION)	MISC	MISCELLANEOUS
CONT	CONTINUE(ED)(UATION)	MTD	MOUNTED
CL	CENTERLINE	NC	NORMALLY CLOSED
DDC	DIRECT DIGITAL CONTROL	NIC	NOT IN CONTRACT
DEFL	DEFLECTION	NO	NORMALLY OPEN
DN	DOWN	OAD	OUTSIDE AIR DAMPER
DP	DEW POINT	OC	ON CENTER DISTANCE
DWDI	DOUBLE WIDTH DOUBLE INLET	OSA	OUTSIDE AIR
DWG	DRAWING	PH	PHASE
EA	EXHAUST AIR	PP	POLYPROPYLENE
EAD	EXHAUST AIR DAMPER	PSI	POUNDS PER SQUARE INCH
EAT	ENTERING AIR TEMPERATURE	PVC	POLYVINYL CHLORIDE
EDB	ENTERING DRY BULB	PVS	PVC COATED STEEL
EFF	EFFICIENCY	R (RAD)	RADIUS
EFT	ENTERING FLUID TEMPERATURE	RA	RETURN AIR
ELEC	ELECTRIC(AL)	RAD	RETURN AIR DAMPER
ELEV	ELEVATION	REV	REVISION
ENGR	ENGINEER	RH	RELATIVE HUMIDITY
EQ	EQUAL	RPM	REVOLUTIONS PER MINUTE
EQUIP	EQUIPMENT	SA	SUPPLY AIR
ESP	EXTERNAL STATIC PRESSURE	SCFM	STANDARD CUBIC FEET PER MINUTE
EWB	ENTERING WET BULB	SD	SMOKE DAMPER
EWT	ENTERING WATER TEMPERATURE	SECT	SECTION
EX	EXTRACTOR	SENS	SENSIBLE
EXH	EXHAUST	SIM	SIMILAR
EXIST	EXISTING	SP	STATIC PRESSURE
EXP	EXPANSION	SPEC	SPECIFICATION
F	DEGREES FAHRENHEIT	SQ	SQUARE
FC	FORWARD CURVED	SF	SQUARE FOOT(FEET)
FIG	FIGURE	SQ IN	SQUARE INCH(ES)
FILT	FILTER	SS	STAINLESS STEEL
FLEX	FLEXIBLE	STL	STEEL
FPD	FLUID PRESSURE DROP	STRUCT	STRUCTUR(E)(AL)
FPM	FEET PER MINUTE	SWP	SINGLE WALL PLENUM
FPS	FEET PER SECOND	SWSI	SINGLE WIDTH SINGLE INLET
FT	FEET/FOOT	TEMP	TEMPERATURE
FTR	FINNED TUBE RADIATOR	TSP	TOTAL STATIC PRESSURE
FU	FIXTURE UNIT	TYP	TYPICAL
FUT	FUTURE	V	VOLTS
FV	FACE VELOCITY	VD	VOLUME DAMPER
GA	GAGE/GAUGE	VEL	VELOCITY
GAL	GALLON	VERT	VERTICAL
GALV	GALVANIZED	VFD	VARIABLE FREQUENCY DRIVE
GLY	GLYCOL	VTR	VENT THROUGH ROOF
GPH	GALLONS PER HOUR	W	WIDTH
GPM	GALLONS PER MINUTE	WG	WATER GAUGE
H	HEIGHT	WPD	WATER PRESSURE DROP
HORIZ	HORIZONTAL	WTD	WATER TEMPERATURE DROP
HP	HORSEPOWER	WTR	WATER TEMPERATURE RISE
HTG	HEATING	W/	WITH
ID	INSIDE(DIAMETER/DIMENSION)	W/O	WITHOUT

PLUMBING PIPING			
	W	W	WASTE (ABOVE GRADE OR FLOOR)
	W	W	WASTE (BELOW GRADE OR FLOOR)
	D	D	DRAIN (CONDENSATE/INDIRECT)
		V	VENT
		CW	COLD WATER
		HW	HOT WATER
		RHW	RECIRCULATING HOT WATER

SPECIALTY PIPING			
	AV	AV	ACID VENT
	AW	AW	ACID WASTE (BELOW GRADE OR FLOOR)

DEMOLITION LEGEND	
	REMOVE EXISTING PIPE

NEW AND EXISTING WORK	
	EXISTING PIPING
	NEW PIPING

PLUMBING SYMBOLS	
	THRUST BLOCK
	CLEANOUT
	WALL CLEANOUT
	FLOOR CLEANOUT
	CLEANOUT TO GRADE
	FLOOR DRAIN
	AREA DRAIN
	CATCH BASIN
	FLOOR SINK
	ROOF DRAIN
	OVERFLOW DRAIN
	TRENCH DRAIN

SYMBOLS	
	ACCESS PANEL
	BELOW GRADE / FLOOR
	CONNECT TO EXISTING
	EXISTING TO REMAIN
	CAP EXISTING / CAP FOR FUTURE
	RELOCATE EXISTING
	REMOVE EXISTING
	NOTE

MISC. FITTINGS & SYMBOLS	
	DIRECTION OF FLOW
	DIRECTION OF SLOPE
	PIPE SLEEVE
	REDUCER
	ANCHOR
	ELBOW (90°)
	ELBOW (45°)
	TEE
	CROSS
	PIPING CONNECTIONS
	JOINT OR COUPLING POINT
	UNION
	FLANGED CONNECTION
	CAP
	PLUG OR BLIND FLANGE
	RISER
	ELBOW UP
	ELBOW DOWN
	TEE UP
	TEE DOWN
	HORIZONTAL TEE
	FLEXIBLE CONNECTION
	BALL JOINT
	MECHANICAL COUPLING
	HEAT TRACE

GENERAL NOTE	
THIS IS A STANDARD LEGEND SHEET, THEREFORE, SOME SYMBOLS MAY APPEAR ON THIS SHEET THAT DO NOT APPEAR ON THE DRAWINGS.	
MISC. VALVES & COCKS	
	SHUT-OFF VALVE
	GLOBE VALVE
	SHUT-OFF VALVE W/ TAMPER SWITCH
	TRIPLE DUTY VALVE
	CHECK VALVE
	2-WAY CONTROL VALVE
	3-WAY CONTROL VALVE
	BALANCING VALVE
	FLOW CONTROL VALVE
	SOLENOID VALVE
	PRESSURE REDUCING VALVE
	AIR VENT (MANUAL/AUTOMATIC)
	RELIEF VALVE
	STRAINER
	STRAINER W/ BLOWDOWN
	DRAIN VALVE
	HOSE BIBB
	WALL HYDRANT
	GROUND HYDRANT
	STEAM TRAP
	PRESSURE GAUGE
	PRESSURE/TEMPERATURE TEST PLUG
	THERMOMETER
	FLOW SWITCH
	TEMPERATURE TRANSMITTER
	SHOCK ARRESTOR
	VACUUM BREAKER
	WATER FLOW METER
	REDUCED PRESSURE BACKFLOW ASSEMBLY
	DOUBLE CHECK VALVE ASSEMBLY
	DOUBLE CHECK DETECTOR ASSEMBLY
	BACKWATER VALVE
	UNDERGROUND GATE VALVE W/BOX
	UNDERGROUND GATE W/POST INDICATOR
	OUTSIDE SCREW & YOKE
	Y PATTERN BOILER BLOWDOWN VALVE
	NON-RETURN STOP VALVE
	QUICK OPENING BOILER BLOWDOWN VALVE

PLUMBING DRAWING LIST	
SHEET	SHEET NAME
P0.1	SYMBOLS, LEGENDS & ABBREVIATIONS - PLUMB.
P1.0	FLOOR PLAN - OVERALL - PLUMBING
P3.0	PARTIAL PLANS - PLUMBING
P6.1	SCHEDULES - PLUMBING
PD1.1	DEMO FLOOR PLAN - OVERALL - PLUMBING

REGISTERED PROFESSIONAL

18806

JOHN C. YOUSLEY

4/23/15

EXPIRES

Project Status

PERMIT/BID ISSUE

SYMBOLS, LEGENDS & ABBREVIATIONS - PLUMB.

FERN RIDGE MIDDLE SCHOOL

INTERIOR ALTERATIONS

P0.1

74-13107-30

Issue Date

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FLOOR PLAN - OVERALL - PLUMBING
FERN RIDGE MIDDLE SCHOOL
INTERIOR ALTERATIONS

P1.0
74-13107-30
Issue Date
REVISIONS

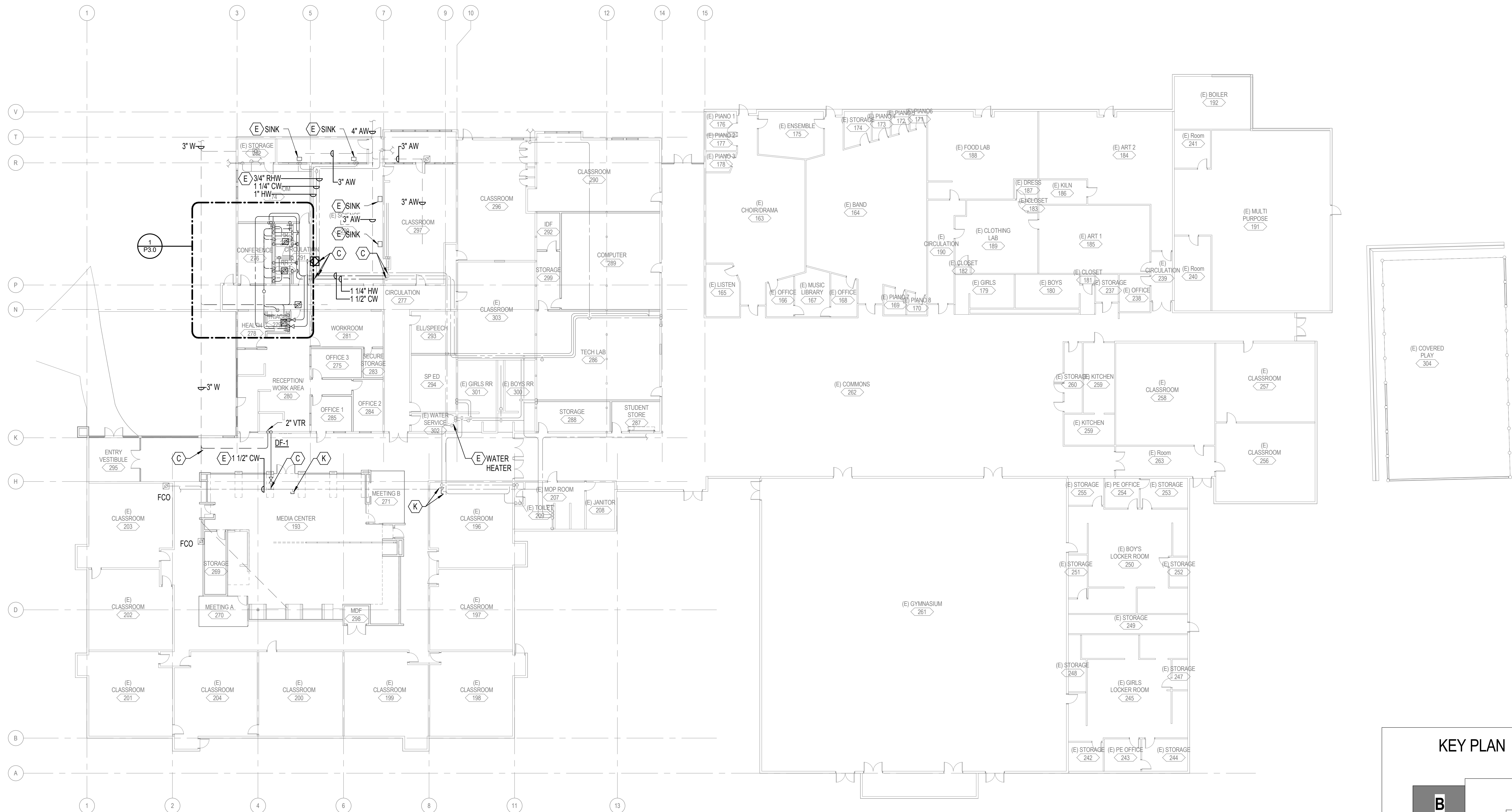


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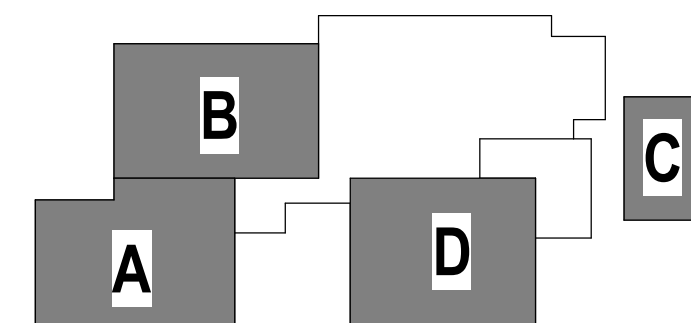
A. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO COORDINATE THE WORK WITH THAT OF ALL OTHER TRADES, INCLUDING, BUT NO LIMITED TO: ELECTRICAL, HVAC PROCESS PIPING SPRINKLER, PLUMBING, STRUCTURAL, AND GENERAL ARCHITECTURE.

C. VERIFY EXACT SIZES, LOCATIONS, INVERTS, AND ELEVATIONS PRIOR TO RUNNING ANY PIPING. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF ALL FIXTURES AND EQUIPMENT.



1 FLOOR PLAN - OVERALL - PLUMBING
1/16" = 1'-0"

KEY PLAN





KEY PLAN



ITEM	DESCRIPTION	ROUGH-IN SIZE (INCHES)				NOTES
		W	V	CW	HW	
WC-1	WATER CLOSET	4	2	1-1/2	-	WALL HUNG, MANUAL FLUSH VALVE, TRAP PRIMER ADA
L-1	LAVATORY	2	1-1/2	1/2	1/2	WALL HUNG, 20-1/2"x18-1/4", SENSOR FAUCET ADA
S-1	SINK	2	1-1/2	3/4	3/4	COUNTERTOP, 22"x22"x6-1/2", INSTA-HOT, ADA
FD-1	FLOOR DRAIN	2	2	-	-	
DF-1	DRINKING FOUNTAIN	2	1-1/4	1/2	-	WALL MOUNTED, DUAL HEIGHT, BOTTLE FILLER, ADA
HB-1	HOSE BIBB	-	-	3/4	-	HOSE BIBB, VACUUM BREAKER

PLUMBING DESIGN CRITERIA
DOMESTIC WATER PIPING SYSTEM: BASIS OF DESIGN: 2011 OREGON PLUMBING SPECIALTY CODE, APPENDIX A 'RECOMMENDED RULES FOR SIZING THE WATER SUPPLY SYSTEM. PIPING SIZED ON _ PSI/100 FT. DROP, VELOCITIES NOT TO EXCEED 8 FT./SEC. (COLD WATER) AND NOT TO EXCEED 5 FT./SEC. (HOT WATER).
WASTE AND VENT PIPING SYSTEM: BASIS OF DESIGN: 2011 OREGON PLUMBING SPECIALTY CODE, CHAPTER 7, 'SANITARY DRAINAGE'. ALL WASTE PIPING SIZED AT 1/4"/FT. SLOPE UNLESS OTHERWISE NOTED.
ROOF DRAIN/STORM DRAIN PIPING SYSTEM: BASIS OF DESIGN: 2011 OREGON PLUMBING SPECIALTY CODE, CHAPTER 11, 'STORM DRAINAGE'. STORM DRAIN PIPING SIZED AT 1/8"/FT. SLOPE UNLESS OTHERWISE NOTED AND A RAINFALL RATE OF _ "/HR.

**EXPIRES**

Project Status

PERMIT/BID ISSUE

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**SCHEDULES - PLUMBING
FERN RIDGE MIDDLE SCHOOL
INTERIOR ALTERATIONS**

P6.1

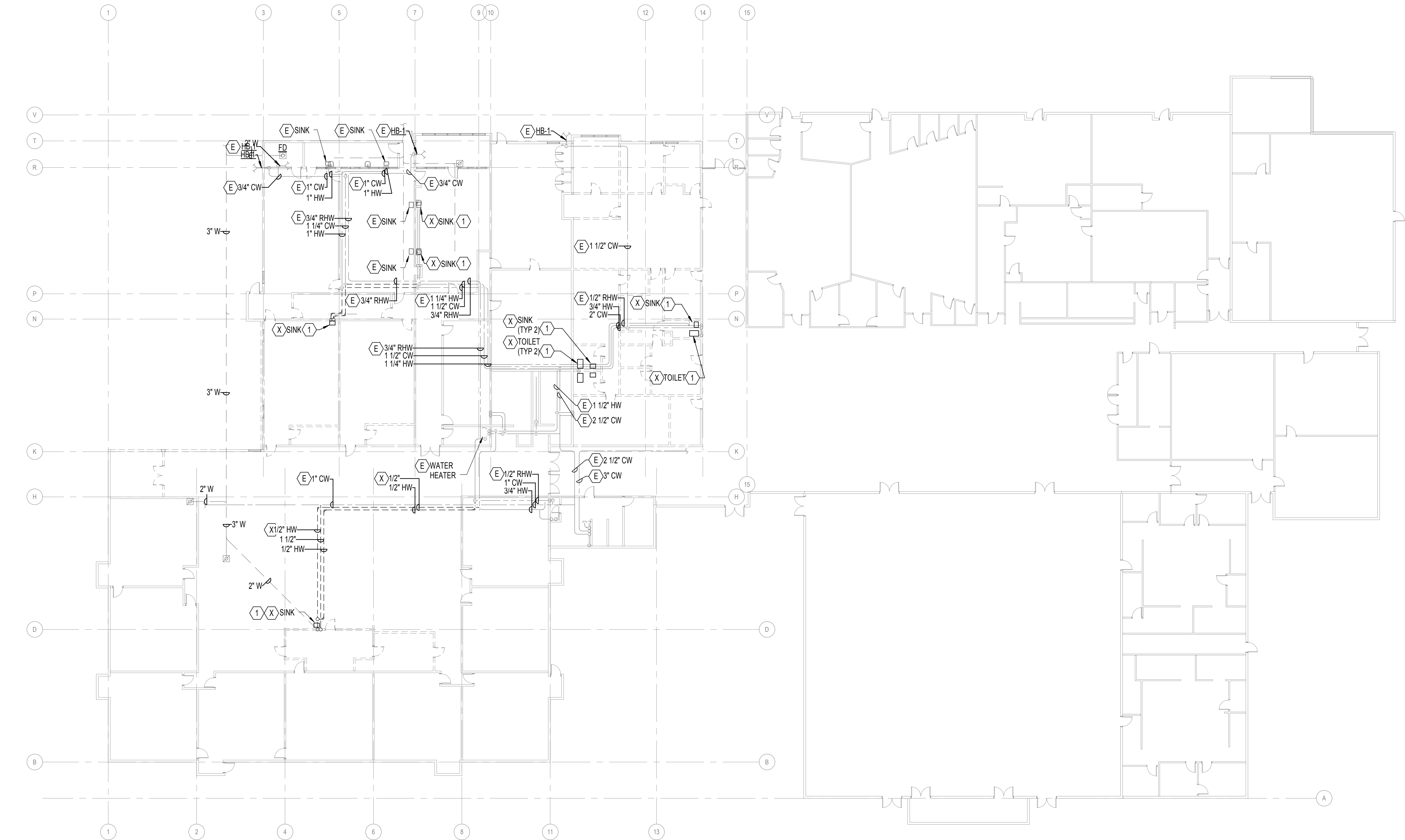
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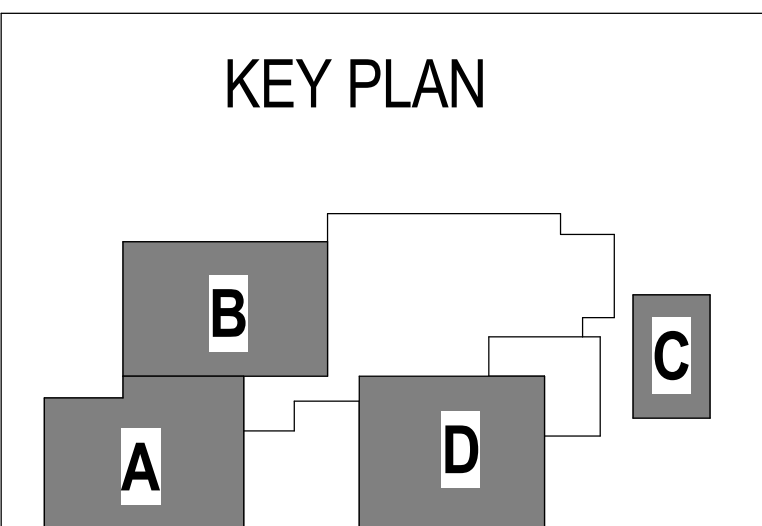
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1 DEMO FLOOR PLAN - OVERALL - PLUMBING
1/16" = 1'-0"



- GENERAL NOTES:**
- A. DETERMINE EXACT LOCATIONS OF EXISTING UTILITIES IN FIELD WHETHER OR NOT SHOWN ON DRAWINGS. EXERCISE CAUTION AND IDENTIFY LOCATIONS OF UNMARKED UTILITY LINES AS NECESSARY TO PERFORM WORK OF THIS SECTION.
- B. DEMOLITION WORK SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING: REMOVAL OF EQUIPMENT, SUPPORTS, ANCHORS, PIPING AND ALL APPURTENANCES WHERE INDICATED ON THE PLANS.
- C. REMOVE EQUIPMENT, PIPING, AND ASSOCIATED ITEMS AS SHOWN OR RELATED TO EQUIPMENT TO BE REMOVED. CAP PIPING AT NEAREST LIVE BRANCH.
- NOTES:**
1. DEMO EXISTING BRANCH PIPING BACK TO MAIN AND CAP.

REGISTERED PROFESSIONAL ENGINEER
18806
John C. Yousef
OREGON
08/01/17 - 08/01/18
JOHN C. YOUSEF
4/29/15

EXPIRES

Project Status
PERMIT/BID ISSUE

PD1.1
74-13107-30
Issue Date
REVISIONS

PAE

DLR Group

Architecture Planning Interiors

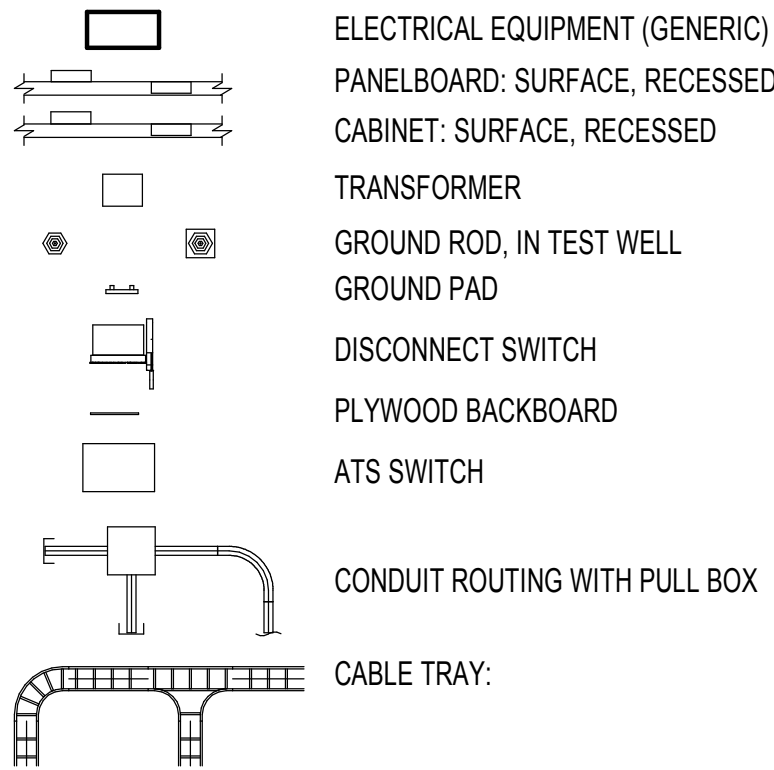
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DEMO FLOOR PLAN - OVERALL - PLUMBING
FERN RIDGE MIDDLE SCHOOL
INTERIOR ALTERATIONS

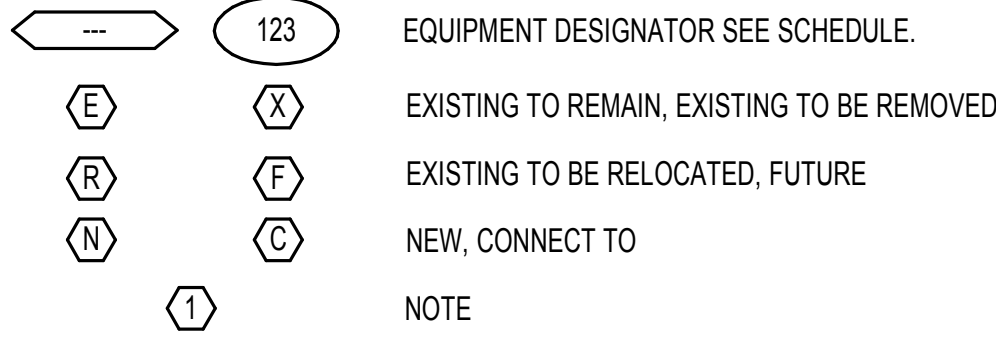
ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	KVA	KILOVOLT AMP
A	AMPERE (AMP)	KVAR	KILOVOLT AMPS REACTIVE
AL	ALUMINUM	LA	LIGHTNING ARRESTOR
ARCH	ARCHITECT / ARCHITECTURAL	LTG	LIGHTING
ATS	AUTOMATIC TRANSFER SWITCH	LV	LOW VOLTAGE
CB	CIRCUIT BREAKER	MATV	MASTER ANTENNA TELEVISION
C	CONDUIT	MCA	MINIMUM CIRCUIT AMPS
CCTV	CLOSED CIRCUIT TELEVISION	MCB	MAIN CIRCUIT BREAKER
CKT	CIRCUIT	MCC	MOTOR CONTROL CENTER
CLG	CEILING	MDP	MAIN DISTRIBUTION PANEL
CT	CURRENT TRANSFORMER	MECH	MECHANICAL
CU	COPPER	MH	METAL HALIDE
DN	DOWN	MLO	MAIN LUGS ONLY
EMERG	EMERGENCY	MV	MERCURY VAPOR
EMT	ELECTRIC METALLIC TUBING	MTS	MANUAL TRANSFER SWITCH
EP	EXPLOSION PROOF	NIC	NOT IN CONTRACT
EPO	EMERGENCY POWER OFF	NL	NIGHT LIGHT CIRCUIT
EW	ELECTRIC WATER COOLER	PA	PUBLIC ADDRESS
FA	FIRE ALARM	PE	PHOTO ELECTRIC CELL
FLA	FULL LOAD AMPS	PF	POWER FACTOR
FLUOR	FLUORESCENT	PNL	PANELBOARD
FCIC	FURNISHED BY CONTRACTOR	PVC	POLYVINYL CHLORIDE CONDUIT
	INSTALLED BY CONTRACTOR	PWR	POWER
FOIC	FURNISHED BY OWNER	SDP	SUB-DISTRIBUTION PANEL
	INSTALLED BY CONTRACTOR	STR	STARTER
FOIO	FURNISHED BY OWNER	SV	SOLENOID VALVE
	INSTALLED BY OWNER	SW	SWITCH
GFP	GROUND FAULT PROTECTION	TD	TIME DELAY
GFI	GROUND FAULT INTERRUPTER	TP	TAMPERPROOF
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	TTB	TELEPHONE TERMINAL BOARD
GRC	GALVANIZED RIGID CONDUIT	TTC	TELEPHONE TERMINAL CABINET
GRD	GROUND	TV	TELEVISION
HP	HORSEPOWER	TYP	TYPICAL
HPS	HIGH PRESSURE SODIUM	UG	UNDERGROUND
HV	HIGH VOLTAGE	UPS	UNINTERRUPTABLE POWER SUPPLY
HZ	HERTZ	V	VOLTAGE
IG	ISOLATED GROUND	VA	VOLT AMPERES
INC	INCANDESCENT	VP	VAPOR PROOF
JB	JUNCTION BOX	W	WATTS
KW	KILOWATT	WP	WEATHER PROOF
KWH	KILOWATT HOUR	XFMR	TRANSFORMER
KV	KILOVOLT	XFSW	TRANSFER SWITCH

EQUIPMENT



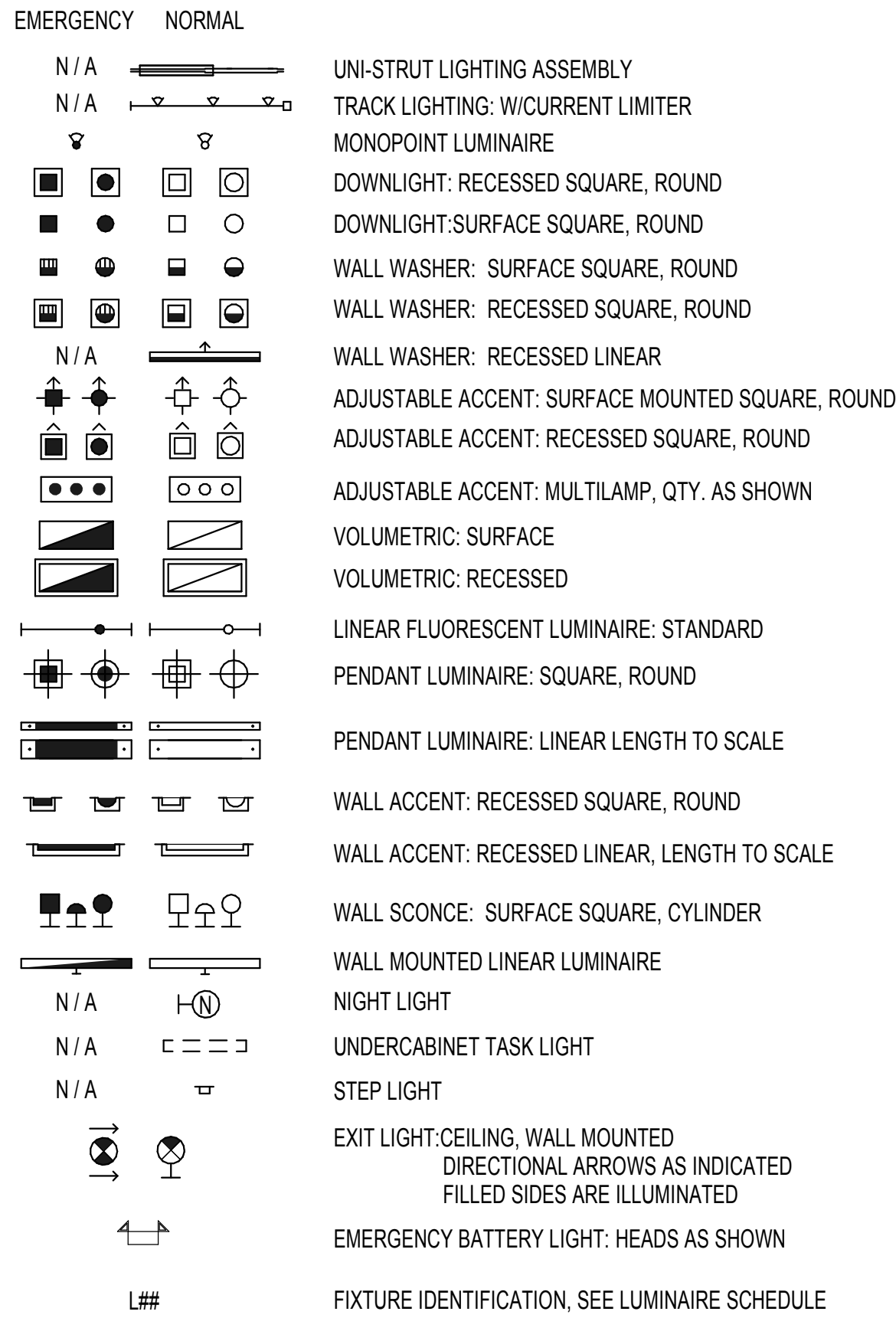
DESIGNATION SYMBOLS



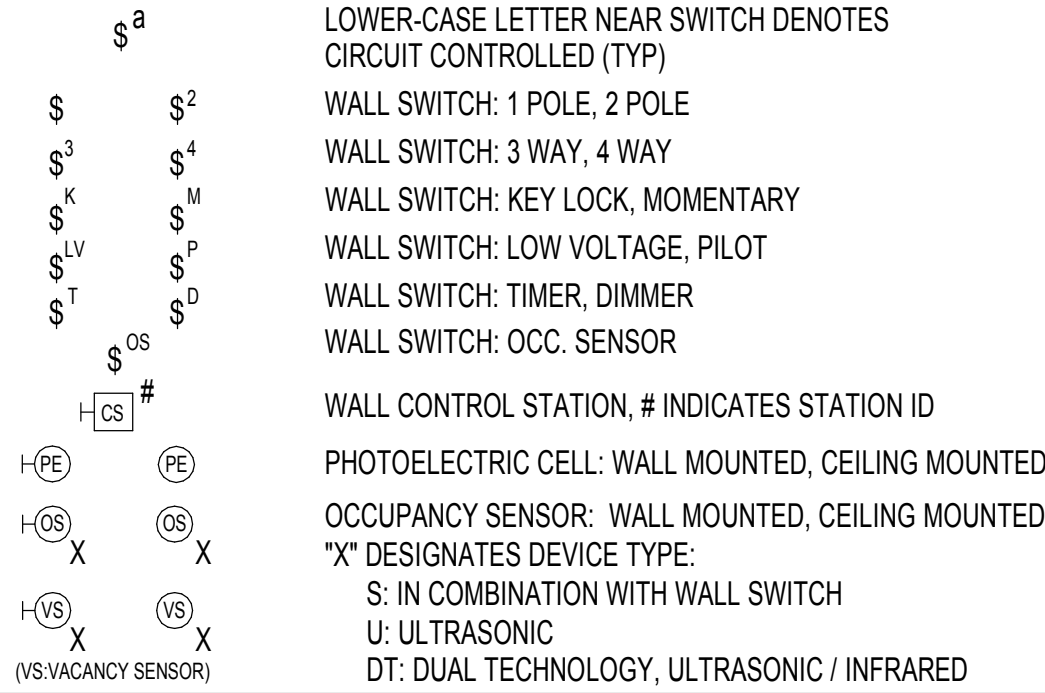
NOTE

THIS IS A STANDARD LEGEND SHEET, THEREFORE, SOME SYMBOLS MAY APPEAR ON THIS SHEET THAT DO NOT APPEAR ON THE DRAWINGS.

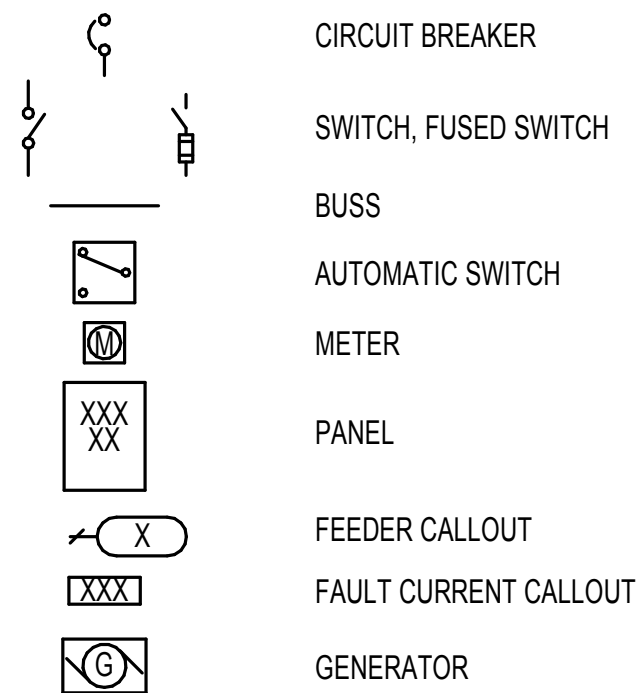
INTERIOR LIGHTING



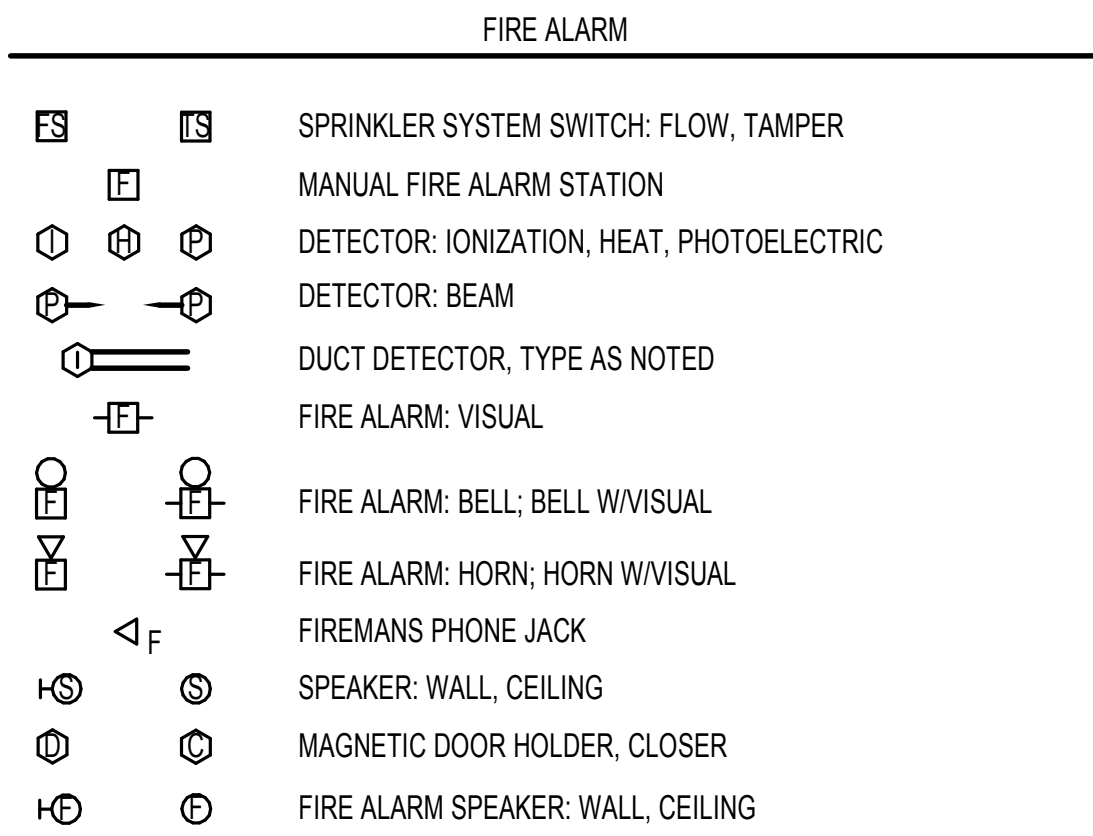
LIGHTING SWITCHES & CONTROLS



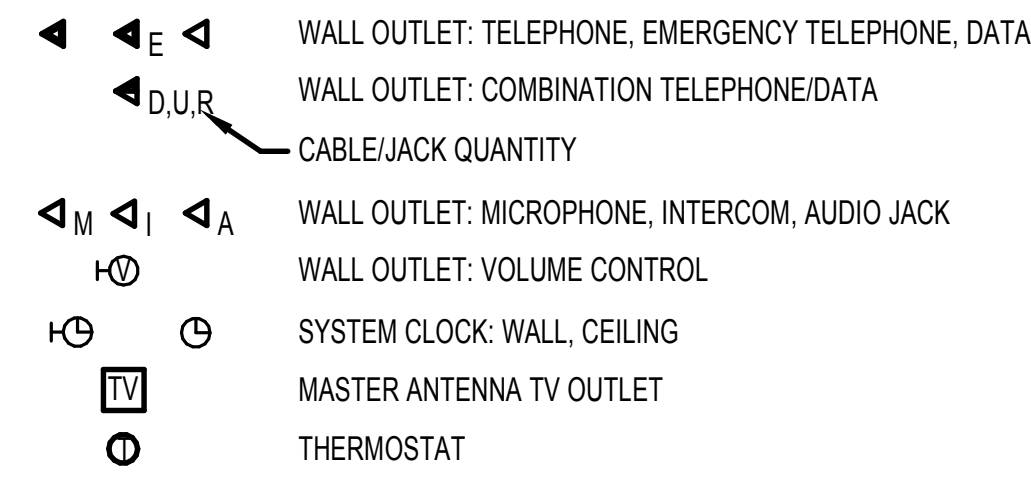
ONE-LINE



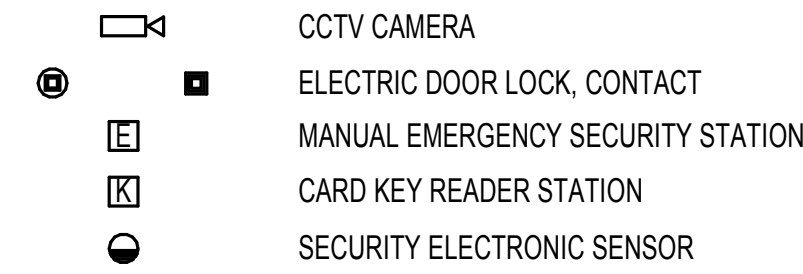
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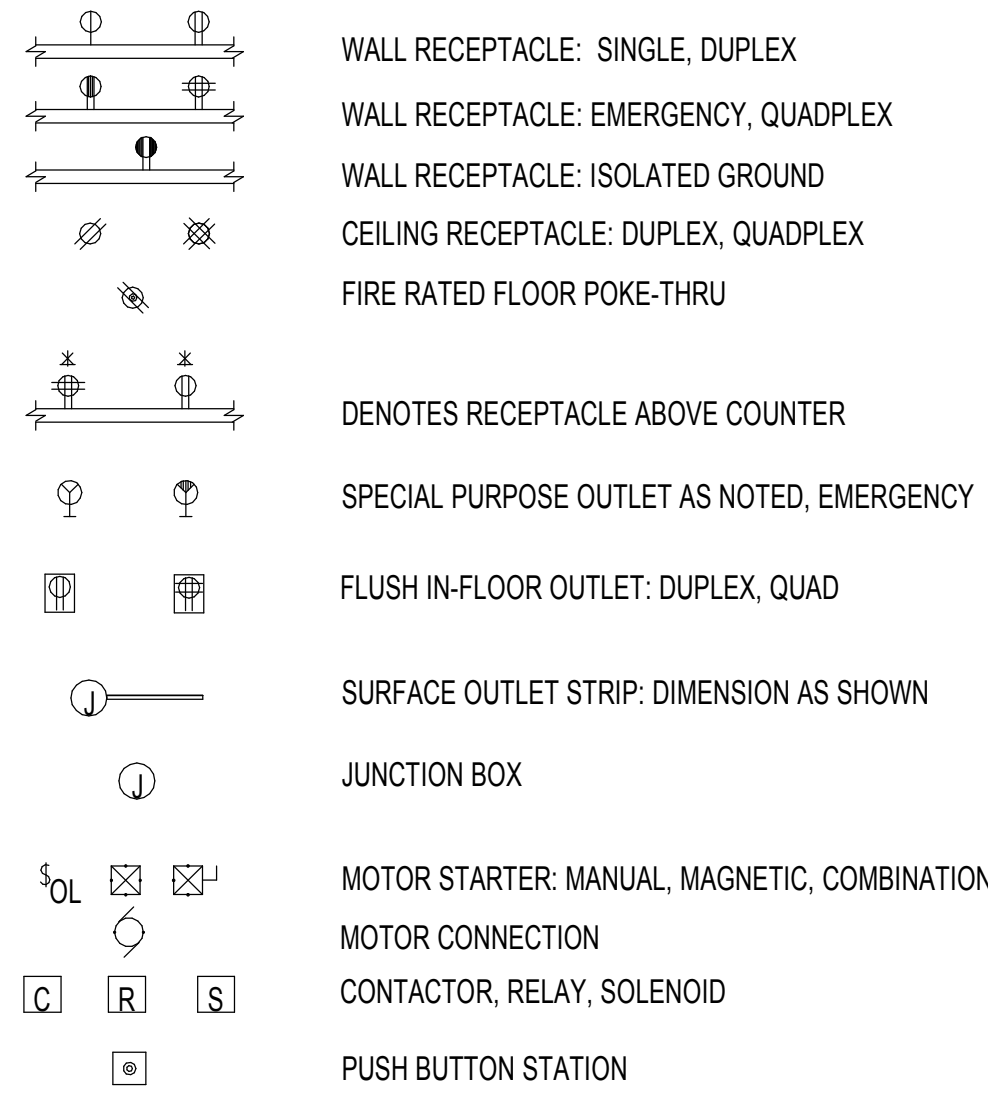
TELECOMMUNICATIONS



SECURITY



POWER



Project Status
PERMIT/BID ISSUE

SYMBOLS, LEGENDS, ABBREVIATIONS-ELEC.
FERN RIDGE MIDDLE SCHOOL
INTERIOR ALTERATIONS

E0.1
74-13107-30
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Tag	Description	Size	Watts	Lamp(s)	Ballast	Voltage	Product	Mounting	Finish	Notes
L1	RECESSED DOWNLIGHT	8" D X 8.75" H X 16" W	39	LED, 2200 LUMENS, MATCH BUILDING STANDARD	DRIVER	120V	GOETHAM EVO SERIES, PORTFOLIO LD6A20 SERIES OR APPROVED	RECESSED	AS SELECTED BY ARCHITECT	
L2	RECESSED 2'X4' VOLUMETRIC	24" X 48"	47	LED, 4800 LUMENS, MATCH BUILDING STANDARD	DRIVER	120V	LITHONIA RTL SERIES, METALUX ACCORD 24AC LED SERIES OR APPROVED	RECESSED	AS SELECTED BY ARCHITECT	
L2A	SAME AS L2 EXCEPT WITH BATTERY BALLAST									
L3	RECESSED 2' X4' VOLUMETRIC	24" X 48"	47	LED, 4800 LUMENS, MATCH BUILDING STANDARD	DRIVER	120V	LITHONIA RTL SERIES, METALUX ACCORD 24AC LED SERIES OR APPROVED	RECESSED	AS SELECTED BY ARCHITECT	
L3A	SAME AS L3 EXCEPT WITH BATTERY BALLAST									
L4	WALL MOUNT LINEAR	4" W X 3" D X LENGTHS AS SHOWN ON DRAWING	26	LED, 2400 LUMENS, MATCH BUILDING STANDARD	DRIVER	120V	AXIS LED PRIME, PURDENTIAL SNAP SERIES OR APPROVED	WALL MOUNT	AS SELECTED BY ARCHITECT	
X	SINGLE FACE EXIT SIGN	11.75" W X 7 5/8" H X 2" D	1	RED LED	DRIVER	120V	LITHONIA QUANTUM, COOPER SURE LITES OR APPROVED	UNIVERSAL MOUNT		BATTERY BALLAST



Project Status

PERMIT/BID ISSUE

LUMINAIRE SCHEDULE
FERN RIDGE MIDDLE SCHOOL
INTERIOR ALTERATIONS

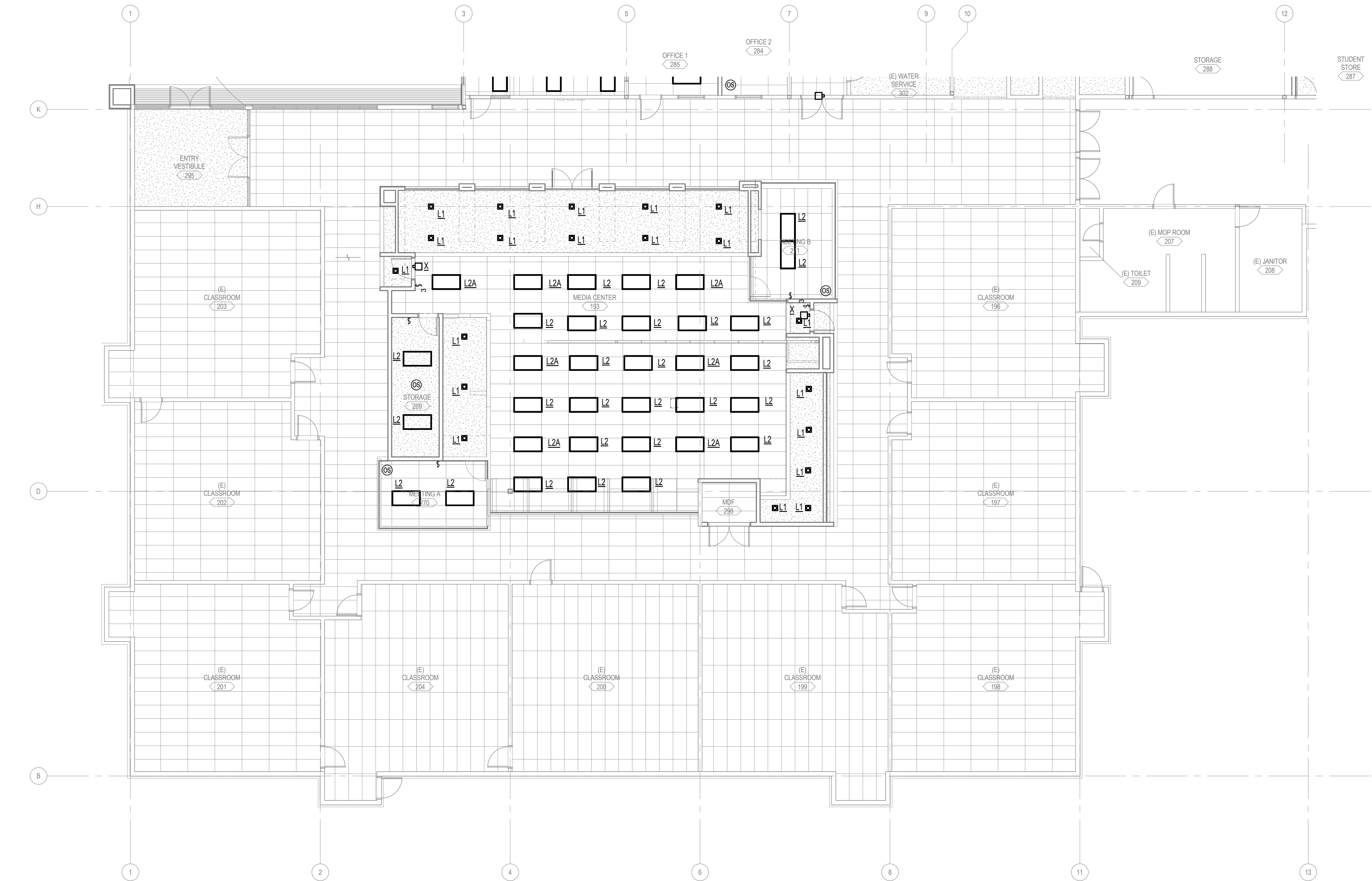
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74-13107-30
Issue Date
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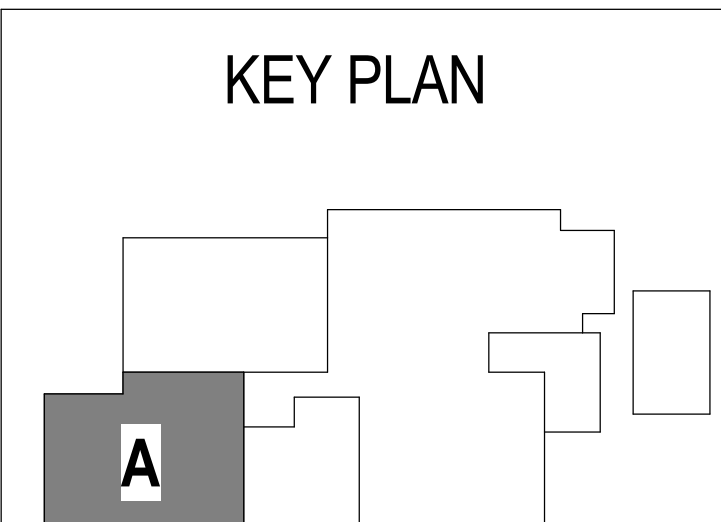
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1 FLOOR PLAN - AREA A - LIGHTING
1/8" = 1'-0"

GENERAL NOTES:
A. CONNECT NEW LIGHTING TO EXISTING
LIGHTING CIRCUITS SERVING MEDIA CENTER
AREA.



Project Status
PERMIT/BID ISSUE

FLOOR PLAN - AREA A - LIGHTING
FERN RIDGE MIDDLE SCHOOL
INTERIOR ALTERATIONS

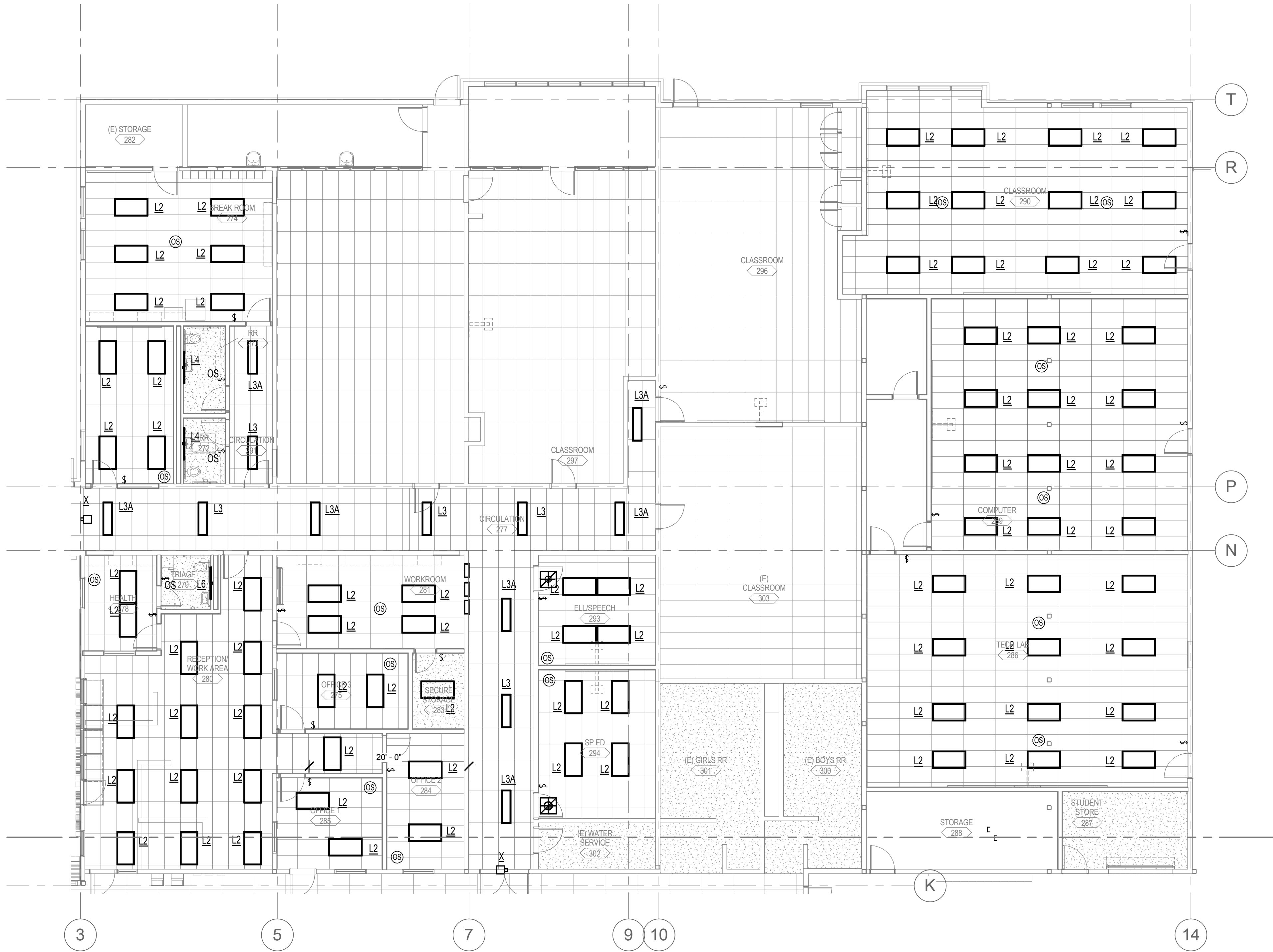
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74-13107-30
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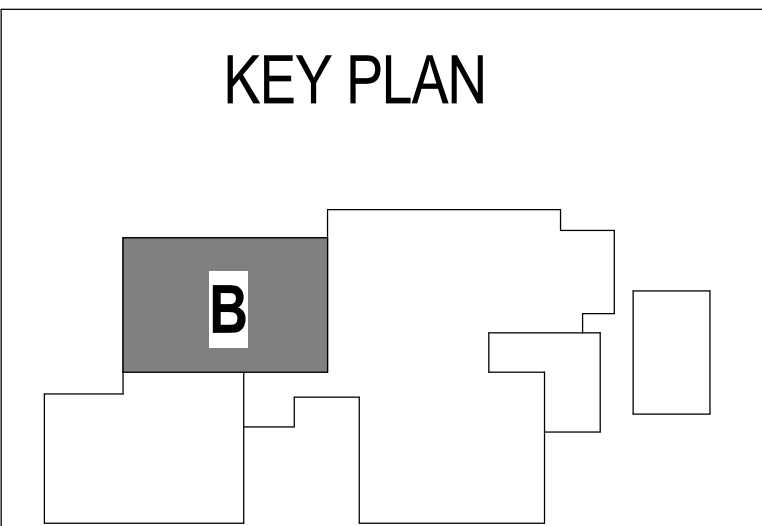
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1 FLOOR PLAN - AREA B - LIGHTING
1/8" = 1'-0"



GENERAL NOTES:

A. CONNECT NEW LIGHTING TO EXISTING
LIGHTING CIRCUITS SERVING AREA.



REGISTERED PROFESSIONAL
ARCHITECT
MICHAEL FORREST STEPHENSON
JULY 8, 2012
OREGON
6910541
1/8"=1'-0"

EXPIRES

Project Status
PERMIT/BID ISSUE

FLOOR PLAN - AREA B - LIGHTING
FERN RIDGE MIDDLE SCHOOL
INTERIOR ALTERATIONS

E2.2
74-13107-30
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REVISIONS

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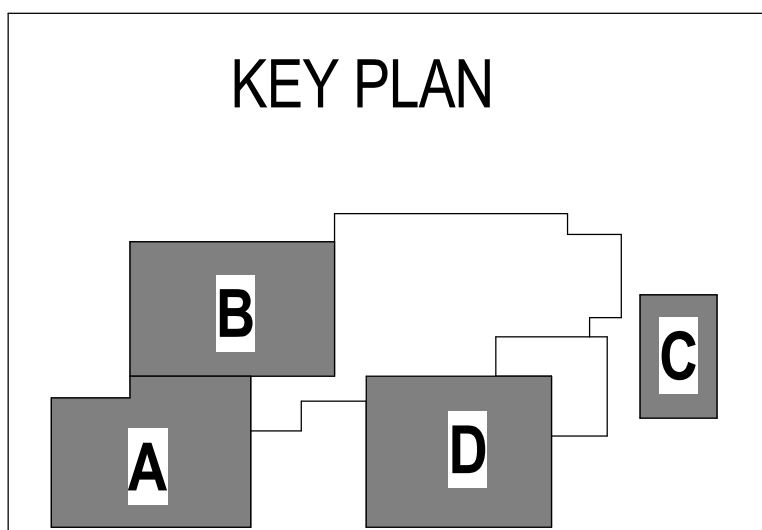
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1 FLOOR PLAN - OVERALL - ELECTRICAL
1/16" = 1'-0"



Project Status
PERMIT/BID ISSUE

FLOOR PLAN - OVERALL - POWER AND SIGNAL
FERN RIDGE MIDDLE SCHOOL
INTERIOR ALTERATIONS

E3.0
74-13107-30
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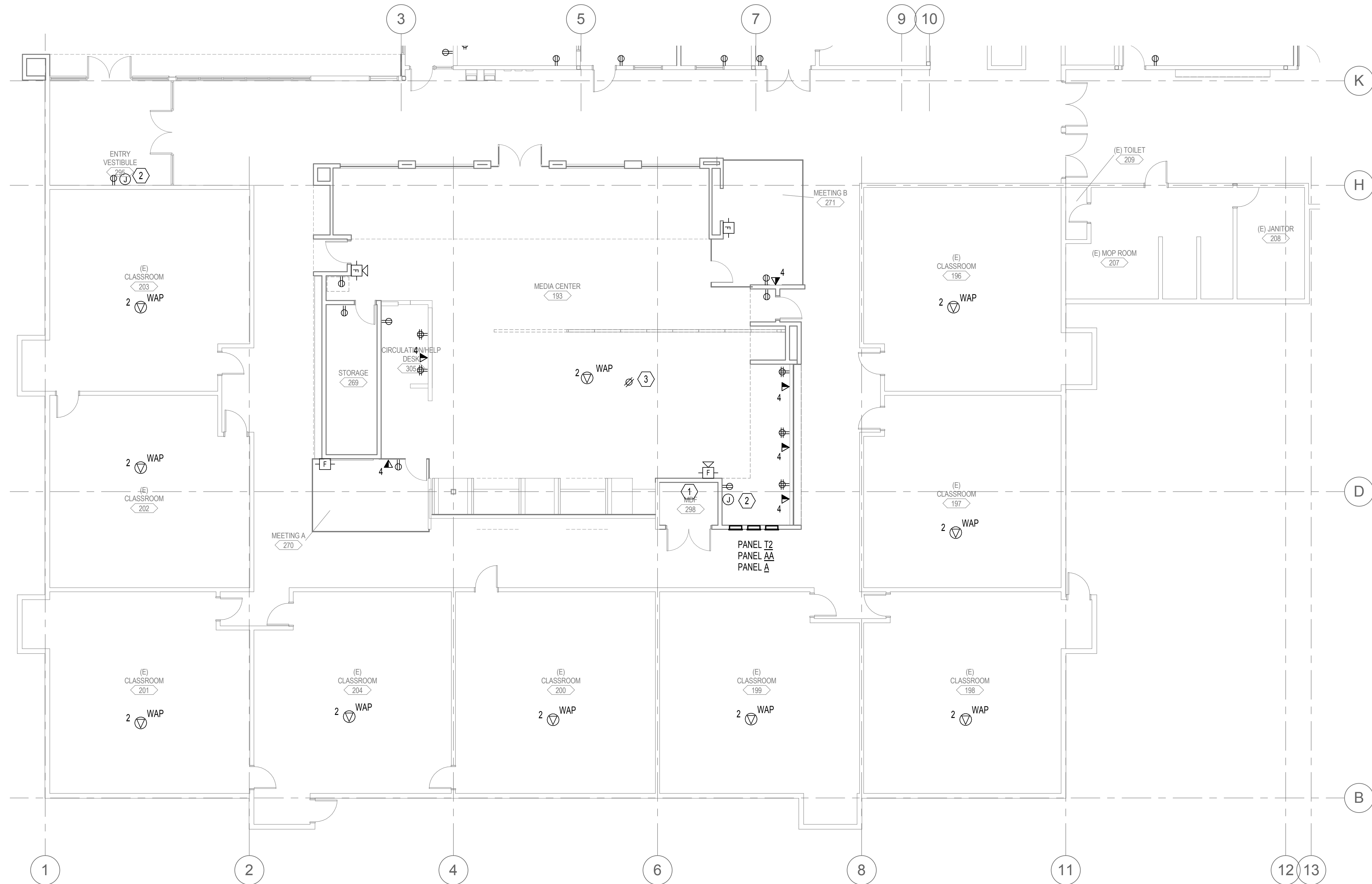
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1 FLOOR PLAN - AREA A - POWER AND SIGNAL
1/8" = 1'-0"

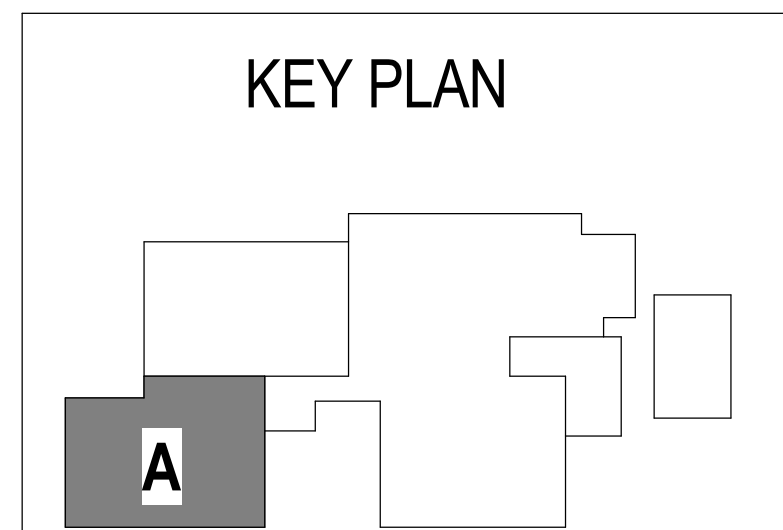


GENERAL NOTES:

- A. TERMINATE DATA CABLES SHOWN ON PATCH PANELS IN EXISTING MDF 298.
- B. MEDIA CENTER 193/ENTRY 295: PROVIDE 20A CIRCUIT PER (6) DUPLEX RECEPTACLES AND DEDICATED CIRCUITS AS NOTED IN BELOW NOTES FROM EXISTING SPARE BREAKERS IN PANEL T2.
- C. SUPPORT DATA CABLING VIA J-HOOKS ABOVE ACCESSIBLE CEILING.

NOTES:

1. PROVIDE THE FOLLOWING BACKBONE FROM MDF 298 TO NEW IDF: 12 STRAND MULTI-MODE, 6 STRAND SINGLE-MODE AND (10) CAT6 CABLES.
2. PROVIDE 2-GANG JUNCTION BOX WITH 1-1/4" CONDUIT TO ACCESSIBLE CEILING SPACE FOR FUTURE AV CABLING.
3. PROJECTOR. PROVIDE DEDICATED CIRCUIT.



REGISTERED PROFESSIONAL
ARCHITECT
MICHAEL FORREST STEEL
JULY 8, 2014
OREGON
EXPIRES 7/8/18

Project Status
PERMIT/BID ISSUE

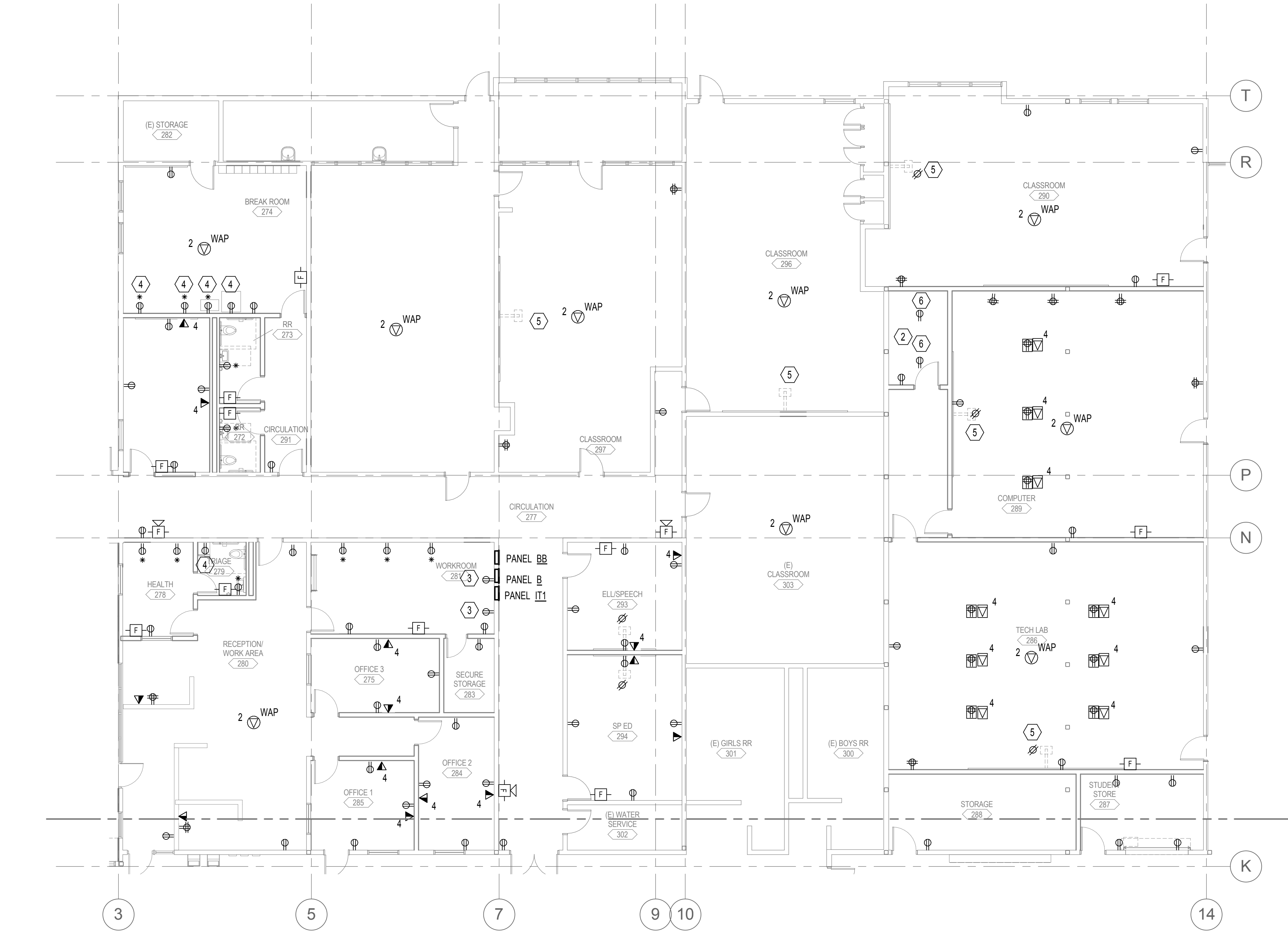
FLOOR PLAN - AREA A - POWER AND SIGNAL
FERN RIDGE MIDDLE SCHOOL
INTERIOR ALTERATIONS

E3.1
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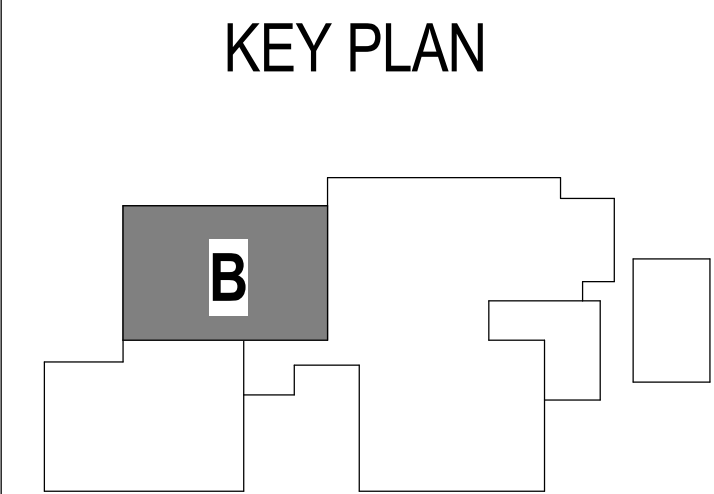
1 FLOOR PLAN - AREA B - POWER AND SIGNAL
1/8" = 1'-0"

GENERAL NOTES:

- A. TERMINATE DATA CABLES SHOWN ON PATCH PANELS IN NEW IDF.
- B. PROVIDE 20A CIRCUIT PER (6) DUPLEX RECEPTACLES AND DEDICATED CIRCUITS AS NOTED IN BELOW NOTES FROM EXISTING SPARE BREAKERS IN PANEL T1.
- C. SUPPORT DATA CABLING VIA J-HOOKS ABOVE ACCESSIBLE CEILING.

NOTES:

1. SEE DETAIL 1/E5.1 FOR AV ROUGH-IN SCOPE FOR TEACHING WALL.
2. PROVIDE (2) FLOOR MOUNTED RACKS AND 10' OF LADDER RACK.
3. COPIER: PROVIDE DEDICATED CIRCUIT.
4. APPLIANCE: PROVIDE DEDICATED CIRCUIT.
5. PROJECTOR: PROVIDE DEDICATED CIRCUIT.
6. IT EQUIPMENT: PROVIDE DEDICATED CIRCUIT.



SCHEDULES - ELECTRICAL FERN RIDGE MIDDLE SCHOOL INTERIOR ALTERATIONS

E6.1
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Issue Date
REVISIONS



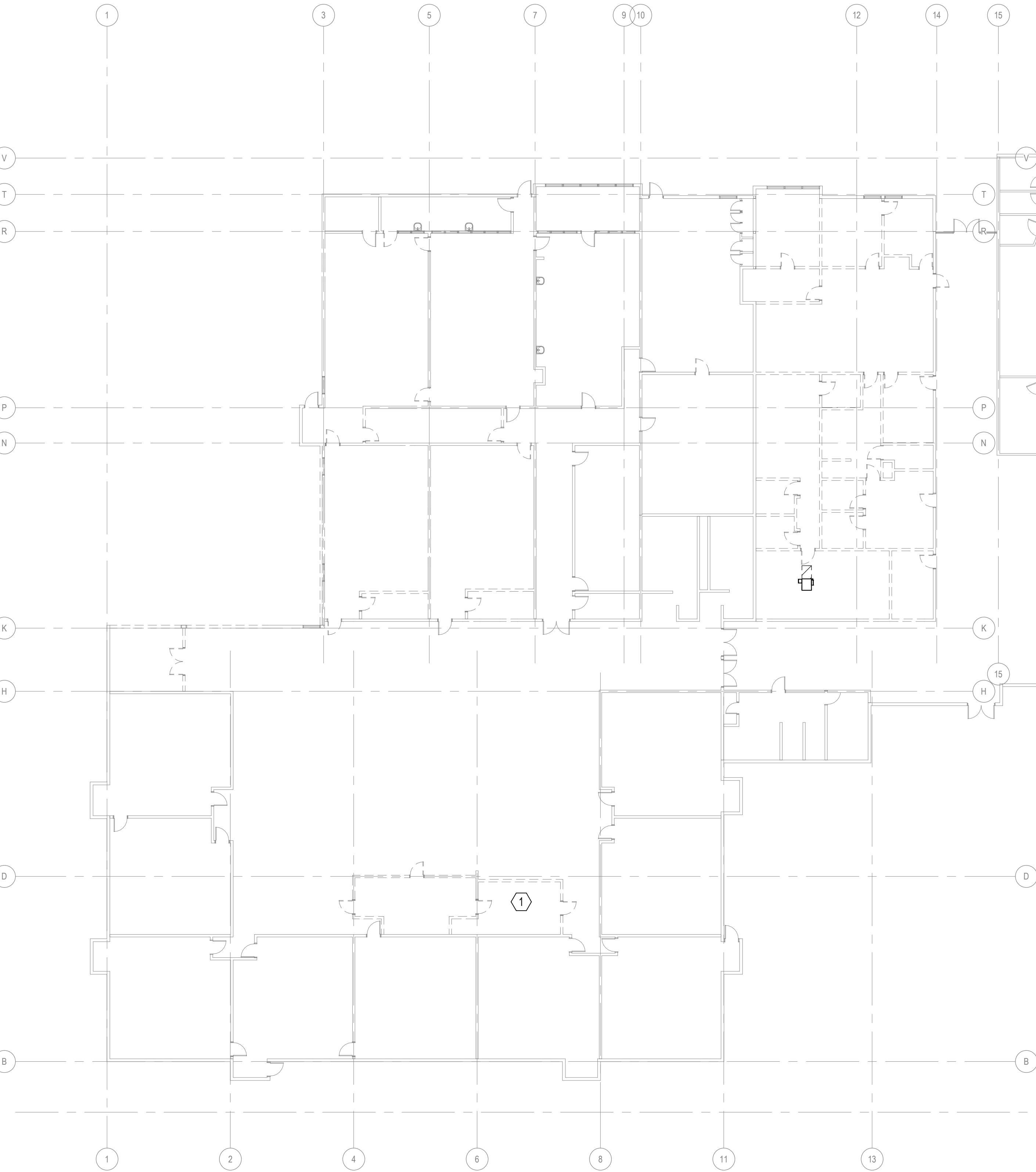
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[illegible]

GENERAL NOTES: (SOME MAY NOT BE USED ON THIS SHEET)

1. REFER TO ONE-LINE DIAGRAM OR PANEL SCHEDULES FOR OVERCURRENT PROTECTION CHARACTERISTICS AND CIRCUIT NUMBERS.
2. COORDINATE ALL EQUIPMENT CONNECTION REQUIREMENTS WITH INSTALLING CONTRACTOR PRIOR TO THE INSTALLATION OF ANY ELECTRICAL WORK.
3. VFD'S ARE FURNISHED BY DIVISION 23. INSTALL VFD AND PROVIDE PROVIDE LINE AND LOAD SIDE FEEDERS IN ELECTRICAL WORK.
4. COMBINATION STARTER/DISCONNECTS AND DISCONNECT SWITCHES SHALL BE LOCATED WITHIN SIGHT OF AND ADJACENT TO EQUIPMENT SERVED. COORDINATE INSTALLATION WITH EQUIPMENT INSTALLER.
5. NOT ALL EQUIPMENT IDENTIFIED HERE IS SHOWN ON FLOOR PLANS. REFER TO DRAWINGS IN OTHER DISCIPLINES FOR EQUIPMENT LOCATIONS.



1 DEMO FLOOR PLAN - OVERALL - ELECTRICAL
1/16" = 1'-0"

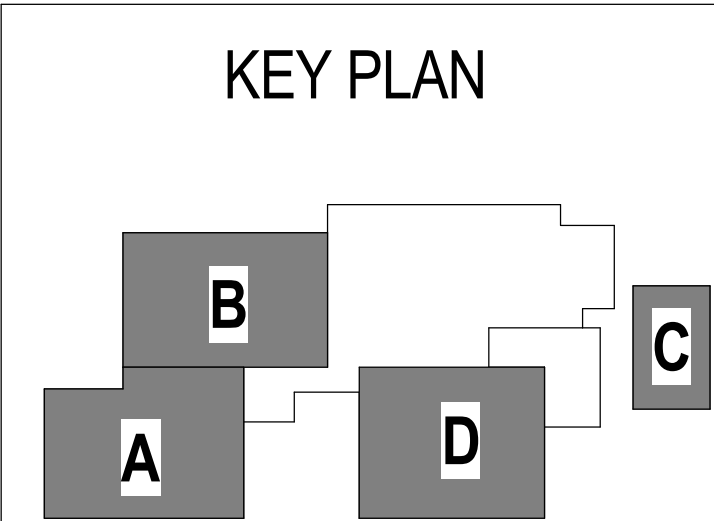
GENERAL NOTES:

- A. REFERENCE ARCHITECTURAL FLOOR PLANS AND REFLECTED CEILING DEMOLITION DRAWINGS FOR SCOPE OF WORK. DEMOLISH ALL ELECTRICAL WORK THAT IS MADE OBSOLETE BY THE WORK OR IS ABANDONED AND NO LONGER IN USE.
- B. PROTECT EXISTING UTILITIES THAT PASS THROUGH AND EXTEND BEYOND THE LIMITS OF CONSTRUCTION. PROVIDE NEW RACEWAY, CONDUCTORS, SUPPORTS, BRACING, ETC. AS REQUIRED TO MAINTAIN SERVICE. DO NOT DISTURB UTILITIES SERVING OTHER AREAS.

- C. ALL MATERIALS ACCUMULATED DURING THE DEMOLITION PROCESS IS THE OWNER'S PROPERTY AND SHALL BE REMOVED FROM THE JOB SITE AND DISPOSED OF AS DIRECTED BY THE OWNER'S CONSTRUCTION REPRESENTATIVE.

NOTES:

1. RELOCATE EXISTING PANELS TO NEW LOCATIONS SHOWN ON E3.1. PANEL A: 200A. PANEL AA: 150A. PANEL IT1: 100A.



REGISTERED PROFESSIONAL
ARCHITECT
MICHAEL FORREST STEPHEN
JULY 8, 2014
OREGON
6910547
1/28/16

EXPIRES

Project Status
PERMIT/BID ISSUE

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DEMO FLOOR PLAN - OVERALL - ELECTRICAL
FERN RIDGE MIDDLE SCHOOL
INTERIOR ALTERATIONS