

MOUNTAIN VIEW LIBRARY

RANDLE, WA



821 SE 14th Loop, Suite 109
PO Box 798
Battle Ground, WA 98604
Ph: 360-687-8379
www.johanssonwing.com



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TIMBERLAND REGIONAL LIBRARY DIST.
MOUNTAIN VIEW LIBRARY
10111 US HIGHWAY 12, WHITE PASS
RANDLE, WA 98377

PROJECT TEAM

OWNER/ DEVELOPER TIMBERLAND REGIONAL LIBRARY 415 TUMWATER BOULEVARD SW TUMWATER, WA 98501-5799 OWNERS REP: TANIAH NAJH tnajih@trl.org	ARCHITECTURAL JOHANSSON WING ARCHITECTS PC 821 SE 14TH LOOP SUITE 109 PH: 360.687.8379 BATTLE GROUND, WA 98604 www.johanssonwing.com PRINCIPAL/PROJECT MANAGER: LAUREN JOHNSON lauren@johanssonwing.com PROJECT ARCHITECT: MICHELLE CARY michelle@johanssonwing.com
CIVIL ROBERTSON FICK ENGINEERING, PC 13115 NE 4th St. Ste 240 PH: 360-975-4995 VANCOUVER, WA www.robertsonfick.com 98684 CONTACT: CHRIS ROBERTSON chris@robertsonfick.com PETE WAGNER pete@robertsonfick.com	STRUCTURAL PCS STRUCTURAL SOLUTIONS SEATTLE, TACOMA, PORTLAND PH: 503-232-3746 ADDRESS FAX: 253-383-2797 www.pcs-structural.com CONTACT: LUKE HEATH lheath@pcs-structural.com
	MECHANICAL/ PLUMBING & ELECTRICAL MKE & ASSOCIATES, INC. 6915 S. MACADAM AVE. # 200 PH: 503-892-1188 PORTLAND, OR http://mke-inc.com 97219 CONTACT: MECH: STEVE KU SteveK@mke-inc.com PLUMB: JOHN THIES JohnT@mke-inc.com ELECT: MARK GARAND MarkG@mke-inc.com

SITE INFORMATION:

JURISDICTION: LEWIS COUNTY
 PROPERTY ID: 031753005001
 LEGAL DESCRIPTION: Section 10 Township 15N Range 07E Ptn NW4 Parcel A of BLA 22-00017, AFN 3587788
 SITE AREA: 1 ACRE
 ZONING: COMMERCIAL/RETAIL
 USE: 62 SERVICE-PERSONAL
 SEWER DISTRICT: REQUIRES NEW SEPTIC SYSTEM
 WATER DISTRICT: 1

PROJECT SUMMARY:

3,393 SF ONE STORY PUBLIC LIBRARY PROPOSED. BUILDING WILL BE UNDER 50 OCCUPANTS, THEREFORE A B OCCUPANCY NOT AN A OCCUPANCY. THE OPEN LIBRARY SPACE IS 2401 SF WHICH INCLUDE THE FLEX AREA & RECEPTION. THEREFORE SKYLIGHTS ARE NOT REQUIRED. EXTERIOR WALLS ARE CONSTRUCTED WITH 2X8 WOOD STUDS WITH THE CAVITIES FULLY INSULATED. 487 SF FLEX ROOM IS FULLY INSULATED. 611 SF EQUIPMENT MEZZANINE DOES NOT CONTRIBUTE TO ALLOWABLE AREA CALCULATIONS.

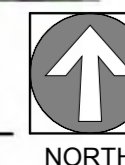
DEFERRED SUBMITTALS

DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE REGISTERED DESIGN PROFESSIONAL IN CHARGE WHO SHALL REVIEW FOR CONFORMANCE WITH THE DESIGN CONCEPT.
 THE CONTRACTOR SHALL SUBMIT THE DEFERRED SUBMITTALS TO THE BUILDING AUTHORITY HAVING JURISDICTION WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND BEEN FOUND TO BE IN GENERAL CONFORMANCE TO THE DESIGN CONCEPT.
 THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING AUTHORITY HAVING JURISDICTION.
 SUBMIT SHOP DRAWINGS OF THE FOLLOWING DESIGN/BUILD SYSTEMS FOR REVIEW PRIOR TO FABRICATION.

- STOREFRONT CALCULATIONS
- PRE-ENGINEERED JOISTS
- MFR. SUSPENDED CEILING SYSTEM



VICINITY MAP



COVER SHEET

PROJECT # 22048

DATE 12/27/2023

DATE	DESCRIPTION
2023.12.27	BID SET

A000

BID SET

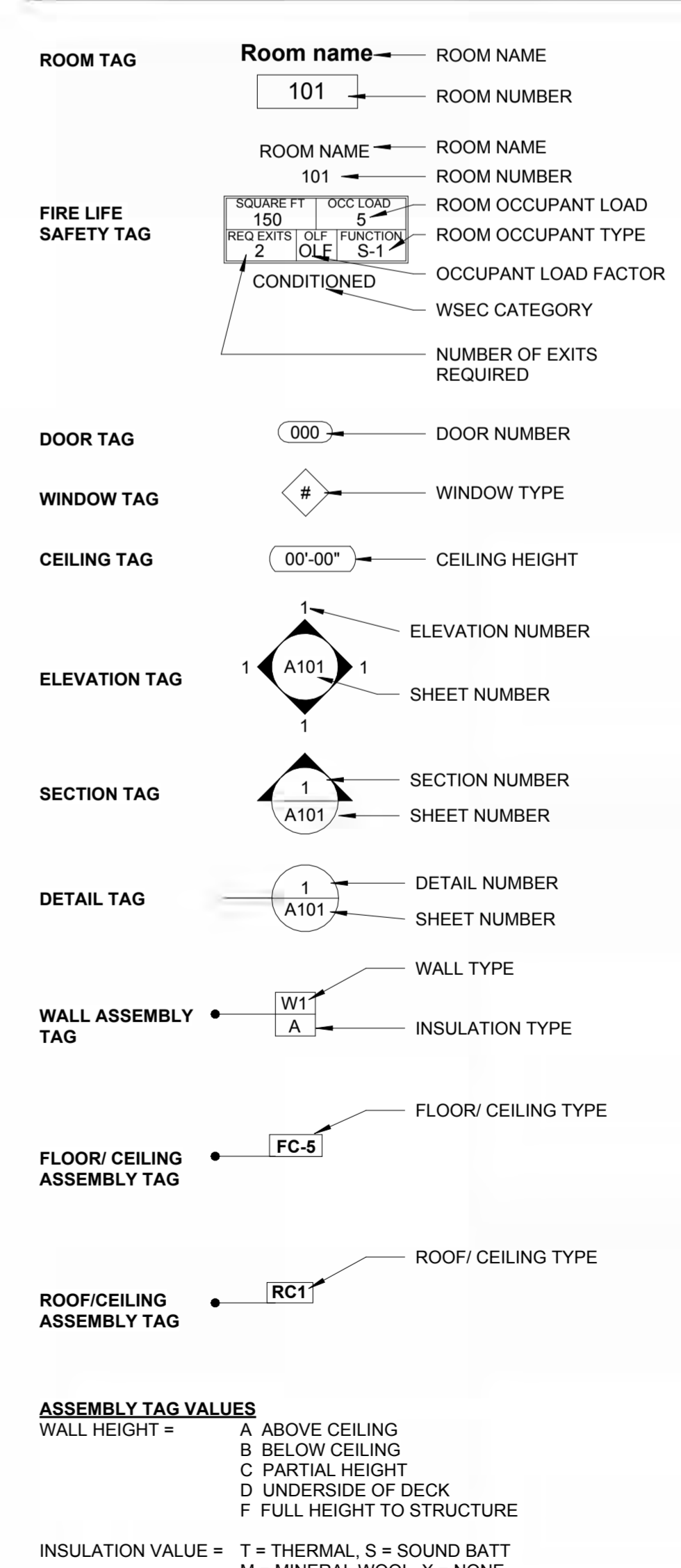
GENERAL NOTES:

- ALL OF THE GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET. THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND AUTHORITIES HAVING JURISDICTION.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR EXAMINING ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND CONFIRMING THAT WORK IS BUILDABLE AS SHOWN BEFORE PROCEEDING WITH CONSTRUCTION. IF THERE ARE ANY QUESTIONS REGARDING THESE DOCUMENTS OR OTHER COORDINATION QUESTIONS, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING CLARIFICATION FROM ARCHITECT BEFORE PROCEEDING WITH WORK IN QUESTION.
- IMMEDIATELY BRING ERRORS AND OMISSIONS FOUND IN THE DRAWINGS AND SPECIFICATIONS TO THE ATTENTION OF THE ARCHITECT BY WRITTEN NOTICE AND REQUEST FOR CLARIFICATION BEFORE PROCEEDING WITH WORK.
- ARCHITECT/ENGINEER SHALL BE SOLE INTERPRETER OF THE DRAWINGS AND SPECIFICATIONS WITH REGARD TO MEANING AND INTENT.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, AND PROCEDURES.
- CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL ASPECTS OF SAFETY DURING THE COURSE OF CONSTRUCTION.
- THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR ACTS OR OMISSIONS OF THE CONTRACTOR OR SUB-CONTRACTOR, OR THEIR FAILURE TO CARRY OUT WORK IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS OR APPLICABLE CODES.
- IF ANY CULTURAL RESOURCES AND/OR HUMAN REMAINS ARE DISCOVERED DURING THE COURSE OF CONSTRUCTION IMMEDIATELY CEASE AND NOTIFY THE PROPER AUTHORITIES.
- PROVIDE ALL WORK REQUIRED FOR A COMPLETE INSTALLATION WHETHER OR NOT SHOWN OR DESCRIBED IN THE CONTRACT DOCUMENTS.
- DO NOT SCALE DRAWINGS, DIMENSIONS GOVERN. FOLLOW DIMENSIONS SHOWN ON DRAWINGS AND ACTUAL FIELD MEASUREMENTS.
- VERIFY AND CONFIRM ALL DIMENSIONS AND CONDITIONS, NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO START OF THE WORK.
- DIMENSIONS ARE TO FACE OF STUD, UNLESS NOTED OTHERWISE (UNO).
- ALL VERTICAL DIMENSIONS ARE SHOWN TO STRUCTURE OR FLOOR ASSEMBLY, UNLESS NOTED OTHERWISE (UNO).
- LARGE SCALE DRAWINGS TAKE PRECEDENCE OVER SMALL SCALE DRAWINGS. DETAILS GOVERN OVER PLANS. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- WHERE NOTED, "CLEAR" OR "CLR" AS USED IN THESE DOCUMENTS SHALL MEAN THE DIMENSIONS ARE TO FINISHED FACE OF SURFACE
- WHERE NOTED, "VERIFY" OR "VFY" AS USED IN THESE DOCUMENTS SHALL MEAN THE DIMENSIONS ARE TO BE CHECKED IN THE FIELD BY THE GENERAL CONTRACTOR.
- WHERE NOTED, "ALIGN" AS USED IN THESE DOCUMENTS SHALL MEAN TO ACCURATELY LOCATE FINISH FACES IN THE SAME PLANE.
- WHERE NOTED, "TYPICAL" OR "TYP" AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE CONDITION IS THE SAME OR REPRESENTATIVE FOR ALL SIMILAR CONDITIONS THROUGHOUT, UNLESS NOTED OTHERWISE (UNO).
- DETAILS ARE USUALLY KEYED AND NOTED "TYPICAL" OR "TYP" ONLY ONCE, AND ARE REPRESENTATIVE OF SIMILAR CONDITIONS THROUGHOUT, UNLESS NOTED OTHERWISE (UNO).
- WHERE NOTED, "SIMILAR" OR "SIM" AS USED IN THESE DOCUMENTS SHALL MEAN COMPARABLE CHARACTERISTICS FOR THE CONDITIONS NOTED. VERIFY DIMENSIONS AND ORIENTATION ON PLANS AND ELEVATIONS.
- WHERE NOTED, "NOT IN CONTRACT" OR "NIC" AS USED IN THESE DOCUMENTS SHALL MEAN WORK IS TO BE ACCOMPLISHED BY A CONTRACTOR OTHER THAN THE GENERAL CONTRACTOR AND IS NOT TO BE PART OF THE CONSTRUCTION AGREEMENT. THE GENERAL CONTRACTOR SHALL COORDINATE WITH "OTHER" CONTRACTORS AS REQUIRED PER REQUIREMENTS ESTABLISHED BY OWNER.
- GENERAL CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS PRIOR TO COMMENCING WORK.
- GENERAL CONTRACTOR TO OBTAIN AND PAY FOR ANY PERMITS ASSOCIATED WITH DESIGN-BUILD SYSTEMS.
- ALL SURFACES AND FINISHES DISTURBED AS A RESULT OF CONSTRUCTION SHALL BE REPAIRED AND FINISHED TO THEIR ORIGINAL CONDITION.
- VERIFY ALL EQUIPMENT REQUIREMENTS WITH MANUFACTURERS. PROVIDE BLOCKING/BACKING, ELECTRICAL AND PLUMBING SUPPLIES, FITTINGS, AND CONNECTORS FOR COMPLETE INSTALLATION. PROVIDE PRODUCT DATA SHEETS TO ARCHITECT FOR REVIEW.
- GENERAL CONTRACTOR TO PROVIDE AND INSTALL BLOCKING/BACKING AT ALL HANGING WALL EQUIPMENT, ACCESSORIES, AND CASEWORK. VERIFY EXACT LOCATIONS.
- DOOR OPENINGS WHICH ARE NOT DIMENSIONED ARE TO BE LOCATED 4" FROM DOOR JAMB TO ADJOINING PARTITIONS.
- PROVIDE ADA COMPLIANT EXIT AND TOILET ROOM SIGNAGE.
- PROVIDE (1) APPROVED FIRE EXTINGUISHER WITH RATING OF NOT LESS THAN 2-A:10B-C FOR EACH 3,000 SF OF FLOOR AREA FOR ORDINARY HAZARDS. MAXIMUM TRAVEL FROM ANY PORTION OF THE BUILDING SHALL NOT EXCEED 75'-0". CONTACT ARCHITECT FOR RATINGS AND LOCATIONS OF FIRE EXTINGUISHERS FOR EXTRA HAZARD, FLAMMABLE OR COMBUSTIBLE LIQUIDS, COMBUSTIBLE METALS, AND COOKING EQUIPMENT WHEN THESE HAZARDS OCCUR. VERIFY FIRE EXTINGUISHER RATINGS AND LOCATIONS WITH FIRE MARSHAL PRIOR TO INSTALLATION.

ABBREVIATIONS LEGEND

A/V	AUDIO VISUAL	GA	GAUGE	PREFIN	PREFINISHED
A/C	AIR CONDITIONING	GALV	GALVANIZED	PREM	PREMIUM
ACT	ACOUSTICAL CEILING TILE	GB	GRAB BAR	PROP	PROPERTY
ADJ	ADJACENT	GL	GLASS	PT	PRESERVATIVE TREATED, POST-TENSION
AFF	ABOVE FINISH FLOOR	GLAM	GLUE-LAMINATED	PTD	PAPER TOWEL DISPENSER
ALUM	ALUMINUM	GLB	GLUE-LAMINATED BEAM	PTD/R	PAPER TOWEL DISPENSER AND RECEPTACLE
ALT	ALTERNATE	GR	GRADE	PLYWD	PLYWOOD
APP	APPLICATION	GWB	GYPSON WALLBOARD		
APPRX	APPROXIMATELY	GYP	GYPSON	QTY	QUANTITY
ARCH	ARCHITECTURAL			QA/QC	QUALITY ASSURANCE/QUALITY CONTROL
		HB	HOSE BIBB	RB	RUBBER BASE
BD	BOARD	HC	HOLLOW CORE	RCP	REFLECTED CEILING PLAN
BLDG	BUILDING	HDWR	HARDWARE	RD	ROOF DRAIN
BLK	BLOCK	HDWD	HARDWOOD	REINF	REINFORCED, REINFORCING
BLKG	BLOCKING	HI-LO	HIGH-LOW	REQ	REQUIREMENTS, REQUIRED
BM	BEAM	HM	HOLLOW METAL	RH	RIGHT HAND
BTM	BOTTOM	HORIZ	HORIZONTAL	RO	ROUGH OPENING
BOW	BOTTOM OF WALL	HSS	HOLLOW STRUCTURAL SECTION	RR	RESTROOM
BUR	BUILT-UP ROOFING	HT	HEIGHT, SAME HIGH TEMPERATURE SELF-ADHERED MEMBRANE		
		HVAC	HEATING/VENTILATION/AIR CONDITIONING	SA	SELF-ADHERED
CAB	CABINET	ID	INSIDE DIAMETER	SAM	SELF-ADHERED MEMBRANE
CCTV	CLOSED CIRCUIT TELEVISION	IN	INCH, INCHES	SC	SOLID CORE
CG	CORNER GUARD	INFO	INFORMATION	SCD	SEAT COVER DISPENSER
CIP	CAST IN PLACE	INSUL	INSULATION	SCHED	SCHEDULE
CL	CENTER LINE			SCRN	SCREEN
CLG	CEILING	KD	KNOCK DOWN	SD	SOAP DISPENSER
CLR	CLEAR	L	LENGTH, LONG	SG	SAFETY GLASS
CMU	CONCRETE MASONRY UNIT	LAM	LAMINATE	SGL	SINGLE
COL	COLUMN	LAV	LAVATORY	SHTG	SHEATHING
COMP	COMPOSITE	LB	POUND	SIM	SIMILAR
CONC	CONCRETE	LF	LINEAL FEET, LINEAR FOOTAGE	SND	SANITARY NAPKIN DISPENSER
CONT	CONTINUOUS	LT	LIGHT	SNR	SANITARY NAPKIN RECEPTACLE
CPT	CARPET	LVT	LUXURY VINYL TILE	SOG	SLAB ON GRADE
CT	CERAMIC TILE	LVP	LUXURY VINYL PLANK	SS	STAINLESS STEEL
CTR	CENTER	MCP	MODIFIED CEMENT PLASTER	ST	STONE
CTRL	CONTROL	MDF	MEDIUM DENSITY FIBERBOARD	STC	SOUND TRANSMISSION CLASS
CW	CASEWORK	MDO	MEDIUM DENSITY OVERLAY	STD	STANDARD
		MED	MEDIUM	STL	STEEL
DBL	DOUBLE	MEMB	MEMBRANE	STN	STAIN
DET	DETAIL	MNFR	MANUFACTURER	STRUCT	STRUCTURAL
DEF	DRINKING FOUNTAIN	MIN	MINIMUM	SUSP	SUSPENDED
DIM	DIMENSION	MIR	MIRROR	SV	SHEET VINYL
DN	DOWN	MIR	MIRROR	SYM	SYMMETRICAL
DS	DOWNSPOUT	MTD	MOISTURE RESISTANT	SYS	SYSTEM
DWG	DRAWING	MUL	MULLION	T&B	TOP AND BOTTOM
DWR	DRAWER	NC	NON COMBUSTABLE	T&G	TONGUE AND GROOVE
		NIC	NOT IN CONTRACT	TEL	TELEPHONE
EA	EACH	NO	NUMBER	TEMP	TEMPERED, TEMPERATURE, TEMPORARY
EJ	EXPANSION JOINT	NOM	NOMINAL	THK	THICK, THICKNESS
ELEC	ELECTRICAL	NTS	NOT TO SCALE	THRU	THROUGH
ENCL	ENCLOSURE	OC	ON CENTER	TLT	TOILET
ENTR	ENTRANCE	OD	OUTSIDE DIAMETER	TOPL	TOP OF PLATE
EP	ELECTRICAL PANEL	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED	TOW	TOP OF WALL
EPS	EXPANDED POLYSTYRENE	OFO	OWNER FURNISHED OWNER INSTALLED	TPD	TOILET PAPER DISPENSER
EQ	EQUAL	OH	OVERHEAD	TS	TUBE STEEL
EXP	EXPANSION	OHP	OVERHEAD OPPOSITE HAND	TYP	TYPICAL
EXT	EXTERIOR	OTS	OPEN TO STRUCTURE	UNO	UNLESS NOTED OTHERWISE
		OC	ON CENTER	VCT	VINYL COMPOSITION TILE
FAB	FABRICATIONS	OD	OUTSIDE DIAMETER	VERT	VERTICAL
FAWB	FLUID APPLIED WEATHER BARRIER	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED	VEST	VESTIBULE
FC	FIBER CEMENT	OFO	OWNER FURNISHED OWNER INSTALLED	VFY	VERIFY
FD	FLOOR DRAIN	OH	OVERHEAD	VIF	VERIFY IN FIELD
FDN	FOUNDATION	OHP	OVERHEAD OPPOSITE HAND	WB	WHITE BOARD
FE	FIRE EXTINGUISHER	OTS	OPEN TO STRUCTURE	WC	WATER CLOSET
FF	FINISHED FLOOR, FACTORY FINISH			WH	WATER HEATER
FFE	FINISH FLOOR ELEVATION			WDW	WINDOW
FF&E	FURNITURE, FIXTURES, AND EQUIPMENT			WR	WEATHER RESISTANT
FG	FULL GLASS			WRB	WEATHER RESISTIVE BARRIER
FGL	FIBERGLASS	P	PAINT	XPS	EXTRUDED POLYSTYRENE
FLR	FLOOR	PAF	POWER ACTUATED FASTENER		
FOC	FACE OF CONCRETE	PIL	PROPERTY LINE		
FOF	FACE OF FINISH	PED	PEDESTRIAN		
FOM	FACE OF MASONRY	PERF	PERFORATED		
FOS	FACE OF STUD	PERP	PERPENDICULAR		
FR	FIRE RATED, FIRE RESISTIVE	PKG	PACKAGE		
FRP	FIBERGLASS REINFORCED PANEL	PL	PLATE		
FTG	FOOTING	PLAM	PLASTIC LAMINATE		
		POLY-ISO	POLYISOCYANURATE INSULATION		

ARCHITECTURAL SYMBOL LEGEND



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PROJECT GENERAL NOTES

PROJECT # 22048

DATE 12/27/2023

DATE	DESCRIPTION
2023.12.27	BID SET

A001

BID SET

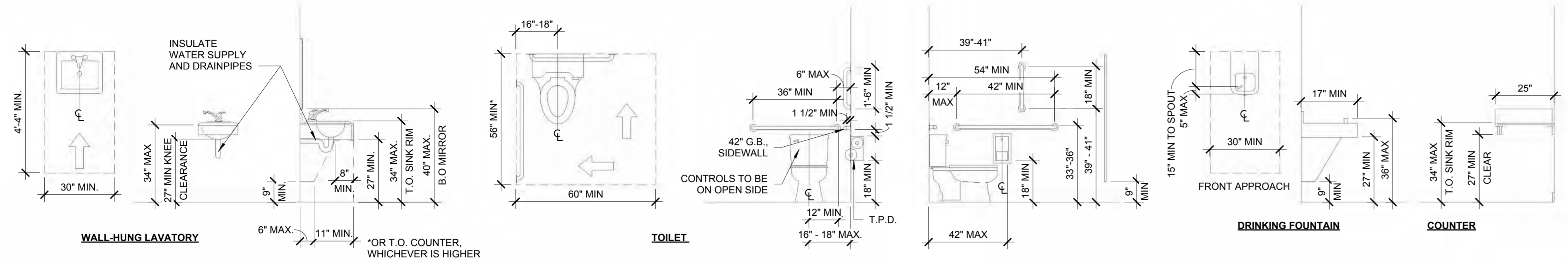
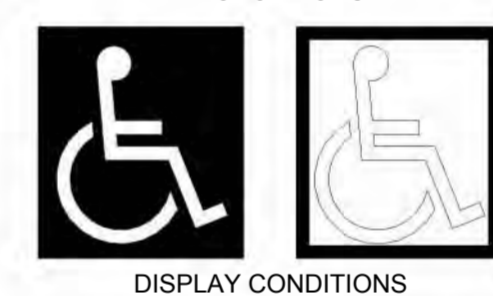
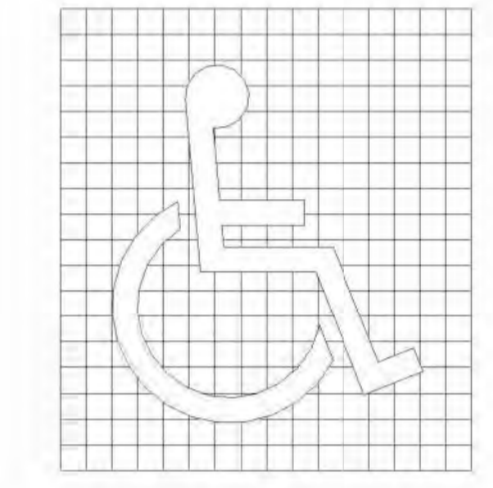
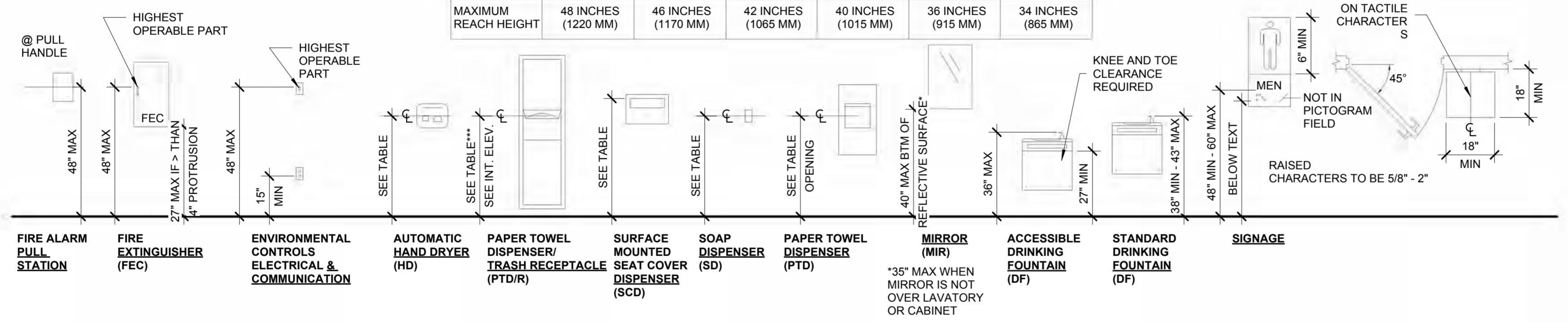


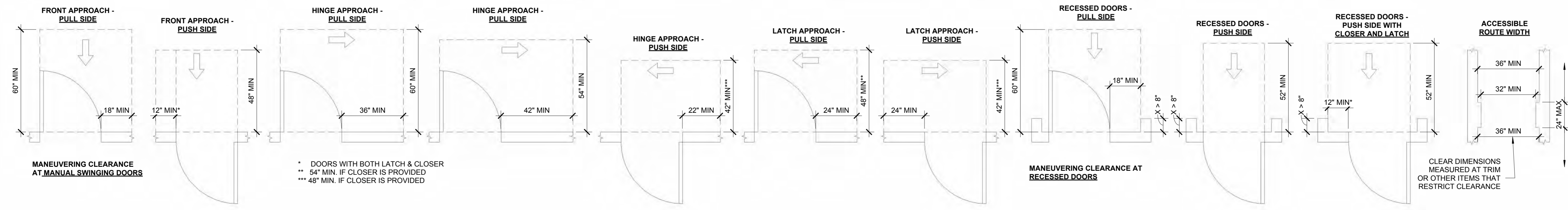
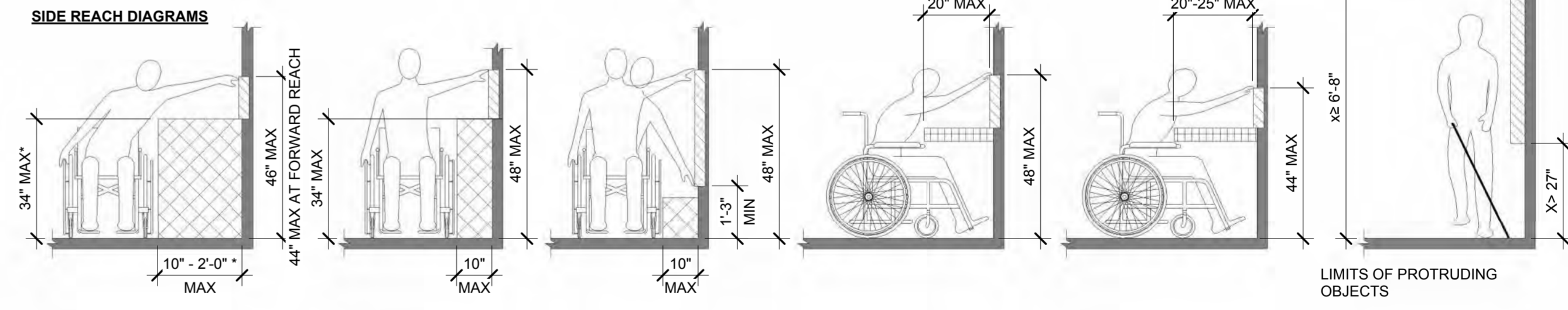
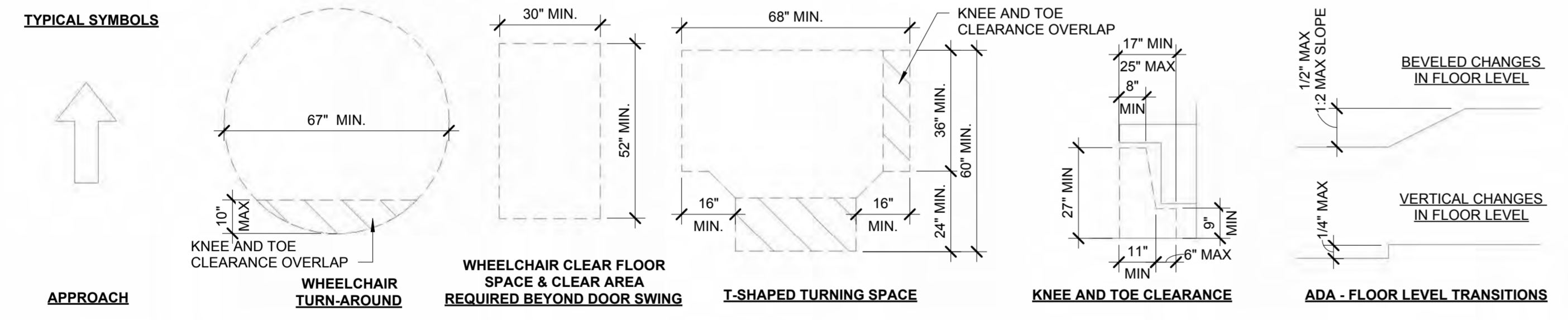
TABLE 603.6 MAXIMUM REACH DEPTH AND HEIGHT

	0.5 INCH (13 MM)	2 INCH (51 MM)	5 INCH (125 MM)	6 INCH (150 MM)	9 INCH (230 MM)	11 INCH (280 MM)
MAXIMUM REACH DEPTH	0.5 INCH (13 MM)	2 INCH (51 MM)	5 INCH (125 MM)	6 INCH (150 MM)	9 INCH (230 MM)	11 INCH (280 MM)
MAXIMUM REACH HEIGHT	48 INCHES (1220 MM)	46 INCHES (1170 MM)	42 INCHES (1065 MM)	40 INCHES (1015 MM)	36 INCHES (915 MM)	34 INCHES (865 MM)



1 ACCESSIBLE MOUNTING HEIGHTS & CLEARANCES
3/8" = 1'-0"

2 ACCESSIBLE SYMBOLS
12" = 1'-0"



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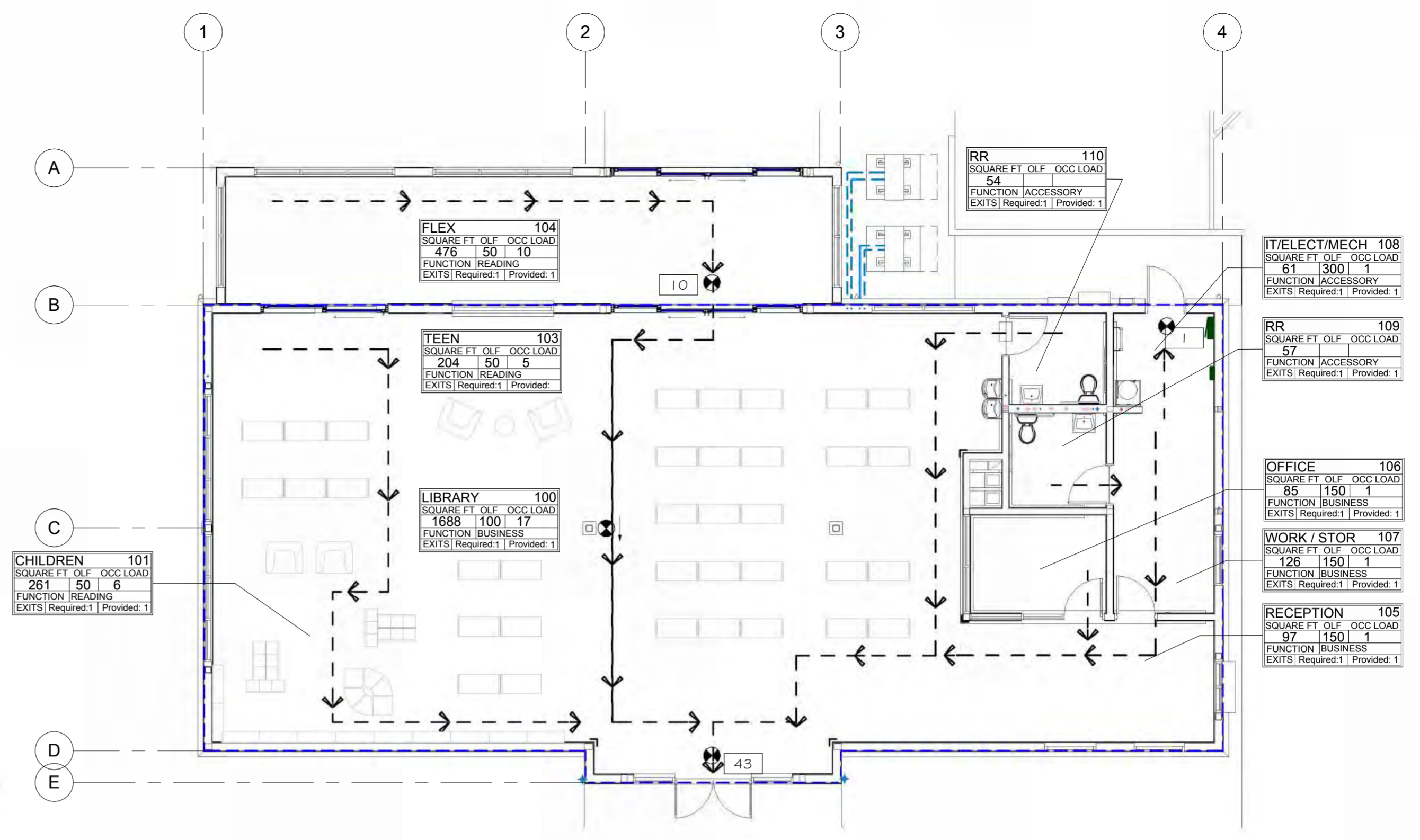
ACCESSIBILITY DETAILS

PROJECT # 22048
DATE 12/27/2023

DATE	DESCRIPTION
2023.12.27	BID SET

A002
BID SET

DATE	DESCRIPTION
2023.12.27	BID SET



CURRENT GOVERNING CODES:

BUILDING:	2018 International Building Code (IBC) w/ WAC 51-50
FIRE:	2018 International Fire Code (IFC) w/ WAC 51-54A
MECHANICAL:	2018 International Mechanical Code (IMC) w/ WAC 51-52
PLUMBING:	2018 Uniform Plumbing Code (UPC) w/ WAC 51-56
ELECTRICAL:	2020 National Electrical Code (NEC)
ENERGY:	2018 Washington State Energy Codes (WESC) WAC 51-11
DESIGN LOADS:	ASCE 7-16 Minimum Design Loads for Buildings and Other Structures
ACCESSIBILITY:	ICC/ANSI A117.1-2009 Accessibility w/ WAC 51-50-1101.2

WSEC ENERGY CODE SUMMARY:

CLIMATE ZONE: 4C COMPLIANCE METHOD: C407.2 COMPONENT PERFORMANCE SPACE CONDITIONING: CONDITIONED
NET WALL AREA: 4,971 SF VERTICAL FENSTRATION AREA: 1,049 SF 1,049 SF / 4,971 SF = 21% NET ROOF AREA: 4,425 SF
C411: HORIZONTALLY-PROJECTED GROSS ROOF AREA = 4,076 SF, 40% = 1,630 SF MIN SOLAR ZONE

INSULATING MATERIALS SHALL BE INSTALLED SUCH THAT THE MANUFACTURER'S R-VALUE MARK IS READILY OBSERVABLE UPON INSPECTION.

FENESTRATION PRODUCTS SHALL BE LABELED WITH RATED U-FACTOR, SHGC, VT AND LEAKAGE RATING

U-FACTORS SHALL BE DETERMINED BY AN ACCREDITED, INDEPENDENT LABORATORY, AND LABELED AND CERTIFIED BY THE MANUFACTURER.

ROOF	
ATTIC	R-12.5 RIGID + R-38 BATT

WALLS ABOVE GRADE
2x8 WOOD FRAMED @ 16" OC R-25 BATT
CORNERS USE 2 STUDS OR OTHER MEANS OF INSULATING & EACH OPENING IS FRAMED BY 2 STUDS. HEADERS CONSIST OF DOUBLE 2X MATERIAL WITH R-10. INTERIOR PARTITION WALL/EXTERIOR WALL INTERSECTIONS ARE FULLY INSULATED IN THE EXTERIOR WALL.

SLAB ON GRADE FLOOR	
UNHEATED SLAB (TABLE A106.1)	F-0.73

OPAQUE DOORS	
SWINGING DOOR	U-0.37

BUILDING ENVELOPE FENESTRATION MAXIMUM U FACTOR AND SHGC REQUIREMENTS FENESTRATIONS (C402.4)

CLASS AW WINDOWS RATED IN ACCORDANCE WITH AAMA/CAS101/1.5.2/A440. VERTICAL CURTAIN WALLS AND SITE BUILT FENSTRATION PRODUCTS

FIXED U-FACTOR	U-0.38
OPERABLE U-FACTOR	U-0.40
ENTERANCE DOORS	U-0.60
ALL OTHER VERTICAL FENESTRATIONS	U-0.30

SHGC FOR ALL VERTICAL FENESTRATIONS		
ORIENTATION	SEW	N
PF<0.2	0.38	0.51
0.2 ≤ PF ≤ 0.5	0.46	0.56
PF≥0.5	0.61	0.61

MANDATORY ENVELOPE COMPLIANCE:

C402.5.1: A CONTINUOUS AIR BARRIER SHALL BE PROVIDED THROUGHOUT THE BUILDING THERMAL ENVELOPE AND IS TO BE CONSTRUCTED WITH PENETRATIONS, JOINTS AND SEAMS IN THE AIR BARRIER SEALED & GASKETED. SEALING SHALL ALLOW FOR EXPANSION, CONTRACTION & MECHANICAL VIBRATION. SEALING MATERIALS SHALL BE SECURELY INSTALLED THE ENTIRE LENGTH OF SEAMS SO AS NOT TO DISLodge OR LOOSEN.

C402.5.1.2: THE COMPLETED BUILDING SHALL BE TESTED AND THE AIR LEAKAGE RATE OF THE BUILDING ENVELOPE SHALL NOT EXCEED 0.25 CFM/FT² AT A PRESSURE DIFFERENTIAL OF 0.3 INCHES WATER GAUGE AT THE UPPER 95 PERCENT CONFIDENCE INTERVAL IN ACCORDANCE WITH ASTM E 779 OR AN EQUIVALENT METHOD APPROVED BY THE CODE OFFICIAL. A REPORT THAT INCLUDES THE TESTED SURFACE AREA, FLOOR AREA, AIR BY VOLUME, STORIES ABOVE GRADE, AND LEAKAGE RATES SHALL BE SUBMITTED TO THE BUILDING OWNER AND THE CODE OFFICIAL. IF THE TESTED RATE EXCEEDS THAT DEFINED HERE BY UP TO 0.15 CFM/FT², A VISUAL INSPECTION OF THE AIR BARRIER SHALL BE CONDUCTED AND ANY LEAKS NOTED SHALL BE SEALED TO THE EXTENT PRACTICABLE. AN ADDITIONAL REPORT IDENTIFYING THE CORRECTIVE ACTIONS TAKEN TO SEAL AIR LEAKS SHALL BE SUBMITTED TO THE BUILDING OWNER AND THE CODE OFFICIAL AND ANY FURTHER REQUIREMENT TO MEET THE LEAKAGE AIR RATE WILL BE WAIVED. IF THE TESTED RATE EXCEEDS 0.40 CFM/FT², CORRECTIVE ACTIONS MUST BE MADE AND THE TEST COMPLETED AGAIN. A TEST ABOVE 0.40 CFM/FT² WILL NOT BE ACCEPTED.

C402.5.5: VENTS AND OTHER OUTDOOR AIR INTAKE AND EXHAUST OPENINGS INTEGRAL TO THE BUILDING ENVELOPE SHALL BE PROVIDED WITH DAMPERS IN ACCORDANCE WITH SECTION C403.7.9.

C402.5.8: RECESSED LIGHTING INSTALLED IN THE BUILDING THERMAL ENVELOPE SHALL ALL BE IC RATED, LABELED AS HAVING AN AIR LEAKAGE RATE OF NOTE MORE THAN 2 CFM WHEN TESTED IN ACCORDANCE WITH ASTM E 283 AT A 1.57 PSF PRESSURE DIFFERENTIAL, SEALED WITH A GASKET OR SEALANT BETWEEN THE HOUSING AND INTERIOR WALL OR CEILING COVERING.

MANDATORY MECHANICAL COMPLIANCE:
SEE MECHANICAL DRAWINGS & DOCUMENTS FOR COMPLIANCE INCLUDING BUT NOT LIMITED TO: C403.1.2 CALCULATION OF HEATING & COOLING LOADS, C403.2 SYSTEM DESIGN, C403.3 EQUIPMENT & SYSTEM SIZING & PERFORMANCE, C403.4 CONTROLS.

MANDATORY PLUMBING COMPLIANCE:
SEE PLUMBING DRAWINGS & DOCUMENTS FOR COMPLIANCE INCLUDING BUT NOT LIMITED TO WATER HEATER EFFICIENCY COMPLYING WITH TABLE C404.2.

MANDATORY ELECTRICAL COMPLIANCE:
SEE ELECTRICAL DRAWINGS & DOCUMENTS FOR COMPLIANCE INCLUDING BUT NOT LIMITED TO C405.2 LIGHTING CONTROLS, C405.4 INTERIOR BUILDING LIGHTING POWER, C405.5 EXTERIOR BUILDING LIGHTING POWER.

C103.6.2, C103.6.3 PROVIDE BUILDING OPERATIONS AND MAINTENANCE ON EQUIPMENT AND MANUALS TO OWNER. ALSO PROVIDE COMPLIANCE DOCUMENTATION.

1 LIFE SAFETY PLAN

ALL FURNITURE MOVABLE AND BY OWNER. FURNITURE ONLY SHOWN TO DEMONSTRATE COMPLIANCE WITH TRAVEL DISTANCES.

1/8" = 1'-0"

CODE SUMMARY:

AUTHORITY HAVING JURISDICTION:	LEWIS COUNTY
CONSTRUCTION TYPE (602.5):	VB
OCCUPANCY CLASS (302):	B
USE:	LIBRARY
INCIDENTAL USES (TABLE 509):	A & S
AUTOMATIC SPRINKLER (903):	NO
FIRE ALARM (907 & NFPA 72):	NO

BUILDING AREA:

ALLOWABLE BUILDING HEIGHT (TABLE 504.3): = 40'-0"
PROPOSED BUILDING HEIGHT: = 28'-0"
ALLOWABLE NUMBER OF STORIES (TABLE 504.4): 2 STORIES
PROPOSED NUMBER OF STORIES: 1 STORIES

ALLOWABLE AREA (TABLE 506.2): 9,000 SF
PROPOSED BUILDING AREA: 3,393 SF
EQUIPMENT PLATFORM 611 SF DOES NOT CONTRIBUTE TO AREA CALCULATION (505.3)

FIRE RESISTANCE RATING

OCCUPANCY SEPARATION: NOT REQUIRED
(NON-SEPARATED OCCUPANCIES PER SECTION 508.3 AND TABLE 508.4)

BUILDING ELEMENTS:	PER TABLE 601 (VB)	
PRIMARY STRUCTURAL FRAME	0 HOURS	
BEARING WALLS	EXTERIOR 0 HOURS	
	INTERIOR 0 HOURS	
NON BEARING WALLS AND PARTITIONS	INTERIOR 0 HOURS	
FLOOR CONSTRUCTION	0 HOURS	
ROOF CONSTRUCTION	0 HOURS	

FIRE SEPARATION DISTANCE:	PER TABLE 602 (VB)			
	NORTH: X ≥ 30'-0"	0 HOURS	SOUTH: X ≥ 30'-0"	0 HOURS
	EAST: X ≥ 10'-0"	0 HOURS	WEST: X ≥ 30'-0"	0 HOURS

PLUMBING FIXTURE CALCULATIONS

MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES PER TABLE 2902.1

GROUP B = 44 TOTAL OCCUPANTS

FIXTURE	MALE 22		FEMALE 22	
	REQUIRED	PROVIDED	REQUIRED	PROVIDED
WATER CLOSET 1 per 25 for first 50	(1)	(1)	(1)	(1)
LAV 1 per 40 for first 80	(1)	(1)	(1)	(1)

UNISEX RESTROOMS PROVIDED.

ICC A117.1- 2017 SECTION 603, EXCEPTION #2
WHERE THE ROOM IS FOR INDIVIDUAL USE AND A CLEAR FLOOR SPACE OF 30" X 52" IS PROVIDED WITHIN THE ROOM BEYOND THE ARC OF THE DOOR SWING, THE DOOR SHALL NOT BE REQUIRED TO COMPLY WITH SECTION 603.2.2

LEGEND:

- EGRESS FLOW INDICATOR
- TOTAL OCCUPANT LOAD AT INDIVIDUAL EXIT SYSTEM
- EGRESS STARTING POINT OF ORIGIN
- AIR BARRIER
- HOSE BIBB, SEE PLUMBING.
- WALL MOUNTED FIRE EXTINGUISHER, VERIFY LOCATION WITH FIRE MARSHAL.
- RECESSED STAINLESS STEEL FIRE EXTINGUISHER CABINET, VERIFY LOCATION WITH FIRE MARSHAL.
- ILLUMINATED EXIT SIGN WITH EMERGENCY POWER BACKUP, SEE ELECTRICAL.
- DIRECTIONAL ILLUMINATED EXIT SIGN WITH EMERGENCY POWER BACKUP, SEE ELECTRICAL.

LS ROOM SCHEDULE

Number	Name	Area	Occupancy	OLF	Occupants
100	LIBRARY	1688 SF	BUSINESS	100	17
101	CHILDREN	261 SF	READING	50	6
103	TEEN	204 SF	READING	50	5
104	FLEX	476 SF	READING	50	10
105	RECEPTION	97 SF	BUSINESS	150	1
106	OFFICE	85 SF	BUSINESS	150	1
107	WORK / STOR	126 SF	BUSINESS	150	1
108	IT/ELECT/MECH	61 SF	ACCESSORY	300	1
109	RR	57 SF	ACCESSORY	0	0
110	RR	54 SF	ACCESSORY	0	0
200	EQUIP PLATFORM	543 SF	ACCESSORY	300	2
TOTAL		3651 SF			44

MOUNTAIN VIEW LIBRARY

LEWIS COUNTY, WASHINGTON



VICINITY MAP
N.T.S.

SITE INFORMATION

MOUNTAIN VIEW LIBRARY
ADDRESS: 10111 US HIGHWAY 12
RANDLE, WA 98377
PROPERTY ID: 031753005001
S/T/R: NW 1/4, S10, T15N, R7E
TOTAL PARCEL AREA= 1.0 ACRES
ZONING: COMMERCIAL/RETAIL

APPLICANT/OWNER

TIMBERLAND REGIONAL LIBRARY
415 TUMWATER BLVD. SW
TUMWATER, WA. 98501
CONTACT: TANIAH NAJIH
(360) 943-5001
TNAJIH@TRL.ORG

HORIZONTAL DATUM

NAD 83/11 WASHINGTON STATE
PLANE COORDINATE SYSTEM,
SOUTH ZONE, US SURVEY FEET

ARCHITECT

JOHANSSON WING ARCHITECTS, PC
PO BOX 798
BATTLE GROUND, WA 98604
CONTACT: LAUREN JOHNSON
(360) 687-8379
LAUREN@JOHANSSONWING.COM

VERTICAL DATUM

NGVD 29

CIVIL ENGINEER

ROBERTSON FICK ENGINEERING, PC
13115 NE 4TH ST. SUITE 240,
VANCOUVER, WA 98684
CONTACT: PETE WAGNER, P.E.
(360) 839-2295
PETE@ROBERTSONFICK.COM

SHEET INDEX

- C000 COVER SHEET
- C001 NOTES, LEGEND, AND ABBREVIATIONS
- C002 EXISTING CONDITIONS PLAN
- C003 DEMOLITION PLAN

- C100 SITE PLAN
- C101 SITE DETAILS

- C200 GRADING AND E.C. PLAN
- C201 EROSION CONTROL DETAILS

- C300 UTILITY PLAN
- C301 STORM DETAILS

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COVER SHEET

PROJECT # JAPC-22
DATE 12/27/2023

REV #	DATE	DESCRIPTION



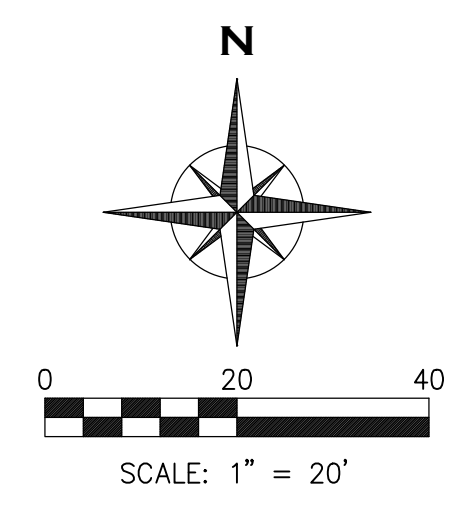
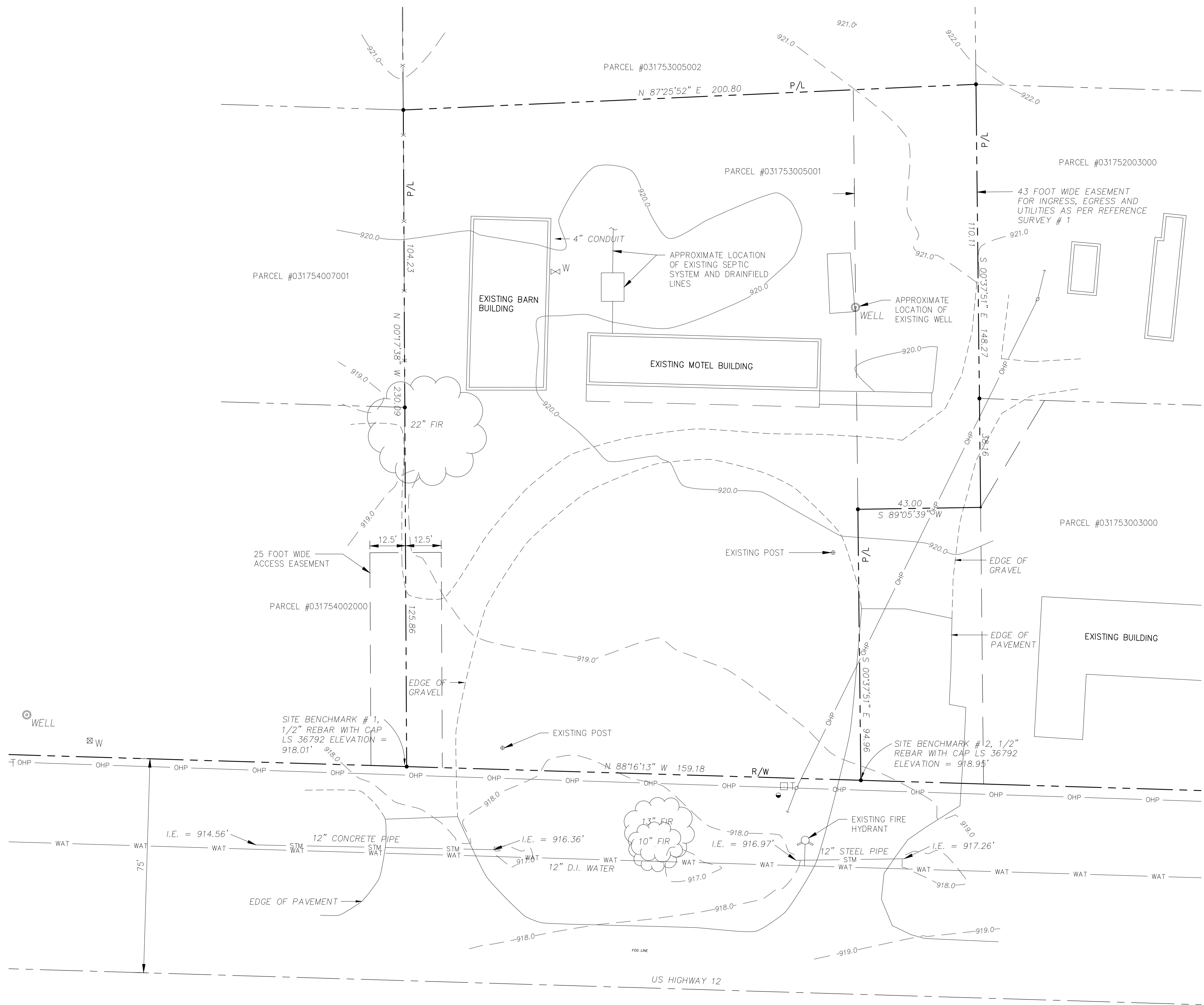
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C000

BID SET

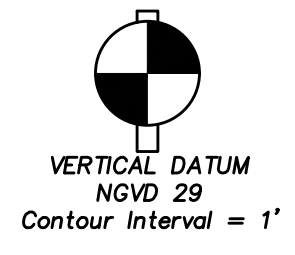


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- LEGEND**
- FOUND CORNER AS NOTED AS PER REFERENCE SURVEY # 1
 - ⊕ CALCULATED POSITION
 - ⊙ EXISTING UTILITY POLE
 - ⤴ EXISTING GUY ANCHOR
 - ⊞ EXISTING PHONE PEDESTAL
 - ⊕ EXISTING FIRE HYDRANT
 - ⊕ EXISTING WELL
 - ⊕ W EXISTING WATER METER
 - ⊕ W EXISTING WATER VALVE
 - ⊕ EXISTING MONUMENT
 - ⊕ TREE AS NOTED
 - EXISTING PROPERTY LINE
 - x EXISTING FENCE LINE
 - OHP EXISTING OVERHEAD POWER LINE
 - STM EXISTING STORM LINE
 - WAT EXISTING WATER LINE
 - - - EXISTING EDGE OF GRAVEL
 - - - EXISTING MINOR CONTOUR
 - - - EXISTING MAJOR CONTOUR

TOPOGRAPHIC SURVEY
 Lot A of Lewis County Boundary Line Adjustment No. 22-0017
 Being a portion of the Northwest Quarter of the Northwest Quarter
 of Section 15, Township 12 North, Range 7 East, W.M., in Lewis
 County, Washington.



METHOD OF SURVEY: GNSS OBSERVATIONS USING TOPCON HIPER-RTK RECEIVERS AND CLOSED LOOP FIELD TRAVERSES USING A LEICA TS-12 ROBOTIC (000005) TOTAL STATION. THIS SURVEY MEETS OR EXCEEDS PRECISION REQUIREMENTS AS SET FORTH IN WAC 332-130-090.
BASIS OF BEARINGS: WASHINGTON STATE PLANE SOUTH ZONE (NAD 83/11) AS PER TIES TO WSDOT CONTROL POINTS 217 U AND IS2E130. HELD THE PUBLISHED COORDINATE AND COMBINED SCALE FACTOR AT POINT 217 U TO SCALE DISTANCE FROM GRID TO GROUND.
BASIS OF VERTICAL CONTROL: NGVD 29 AS PER GNSS TIE TO WSDOT CONTROL POINT 217 U.
RECORD OF SURVEY DESCRIPTION:
 LOT A OF LEWIS COUNTY BOUNDARY LINE ADJUSTMENT NO. 22-0017 AS RECORDED IN BOOK 4 OF BLAM, AT PAGE 230, RECORDS OF LEWIS COUNTY, WASHINGTON.
 TOGETHER WITH AND SUBJECT TO EASEMENTS, COVENANTS, CONDITIONS, RESTRICTIONS, AND RESERVATIONS, IF ANY, AFFECTING TITLE WHICH MAY APPEAR IN THE PUBLIC RECORD INCLUDING THOSE SHOWN ON THE FACE OF ANY RECORDED PLAT OR SURVEY.
REFERENCE SURVEYS:
 1) C.M. BUTLER, PLS 36792, BOOK 4 OF BLAM, PAGE 230, (2022)

BUTLER SURVEYING, INC.
 475 NW CHEHALIS AVENUE
 P.O. BOX 149, CHEHALIS, WA 98532
 360/748-8803

**EXISTING
 CONDITIONS
 PLAN**

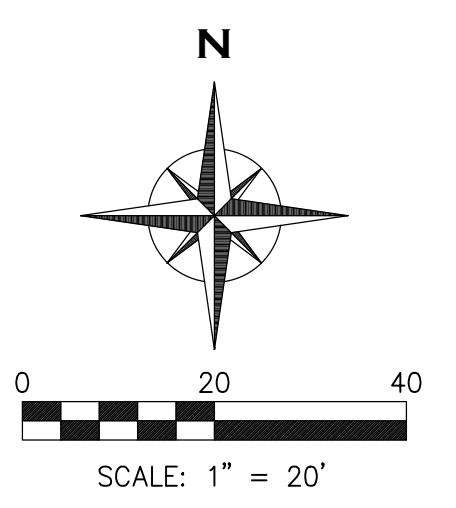
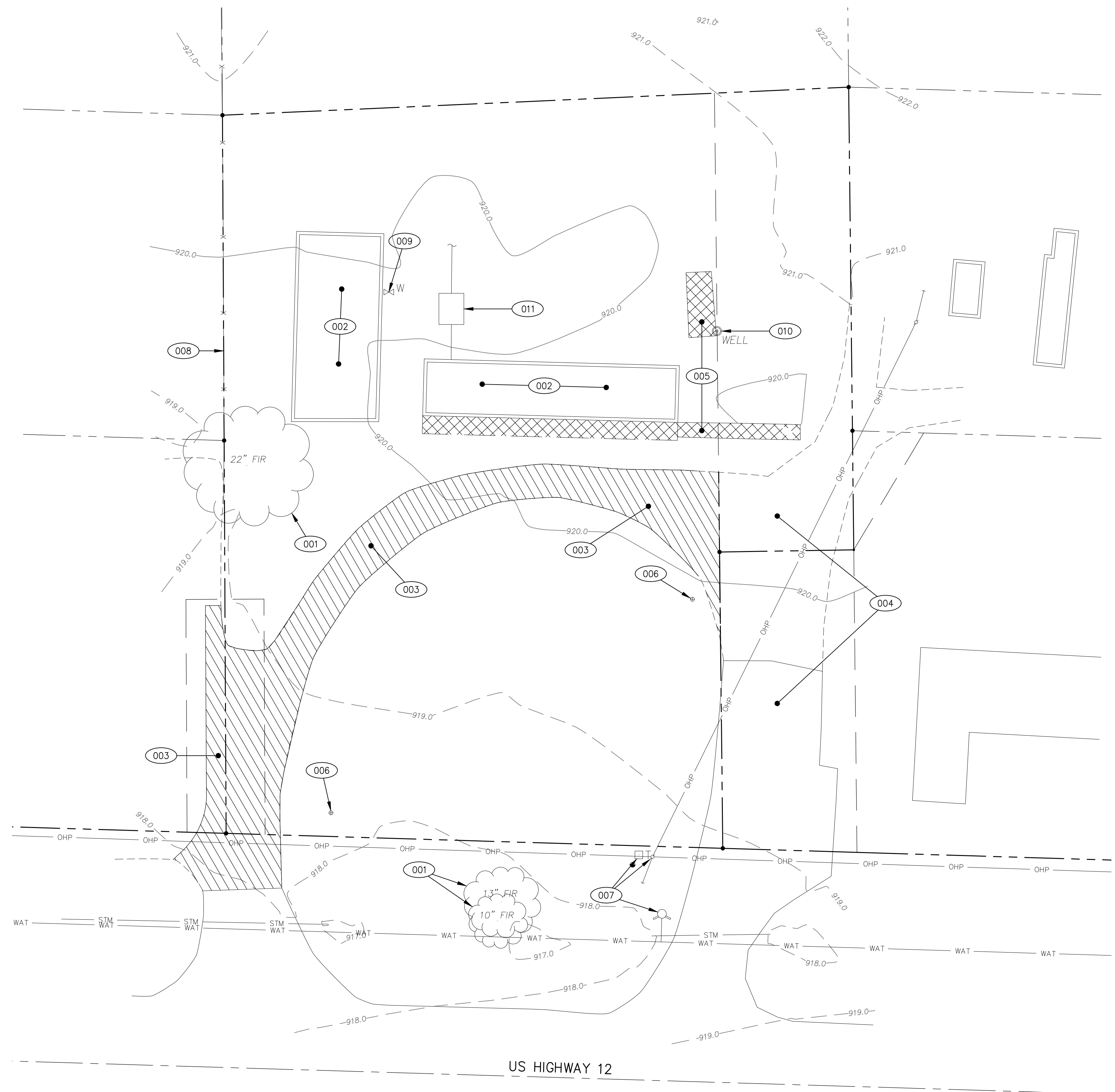
PROJECT # JAPC-22
 DATE 12/27/2023

REV #	DATE	DESCRIPTION

**ROBERTSON
 FICK ENGINEERING
 PC**
13115 NE 4th St. #240, Vancouver, WA 98684 | (360) 975-4995

C002

BID SET



DEMOLITION PLAN NOTES

- (001) REFER TO LANDSCAPE PLANS FOR TREE REMOVAL.
- (002) DEMOLISH AND DISPOSE OF EXISTING BUILDING IN ITS ENTIRETY, INCLUDING (BUT NOT LIMITED TO) ALL FOOTINGS, UNDERGROUND UTILITIES AND ALL MECHANICAL, ELECTRICAL AND PLUMBING MATERIALS.
- (003) REMOVE EXISTING GRAVEL.
- (004) PROTECT EXISTING A.C. PAVEMENT AND GRAVEL DRIVE.
- (005) REMOVE EXISTING CONCRETE FLATWORK AND ROCK BASE.
- (006) REMOVE EXISTING POST.
- (007) PROTECT EXISTING UTILITY STRUCTURES TO REMAIN.
- (008) PROTECT EXISTING FENCE TO REMAIN.
- (009) FIELD INVESTIGATE THE EXTENTS OF THE EXISTING UTILITY AND COORDINATE REMOVAL WITH OWNER.
- (010) THE EXISTING WELL FOR THE PROPERTY SHALL BE DECOMMISSIONED PER STATE REGULATIONS (WAC 173-160-381).
- (011) THE EXISTING SEPTIC TANK FOR THE MOTEL, (TO BE DEMOLISHED) COULD NOT BE LOCATED FROM EITHER SITE OBSERVATION OR THE EXISTING CONDITIONS SURVEY. WITH THE DEMOLITION OF THE MOTEL, THE CONTRACTOR SHALL FOLLOW THE SEWER LINE FROM THE BUILDING TO LOCATE THE TANK. THE TANK SHALL BE LEGALLY ABANDONED (PUMPED AND FILLED) PER STATE REGULATIONS, (WAC 246-272A-0300).

DEMOLITION LEGEND

- REMOVE EXISTING CONCRETE FLATWORK AND ROCK BASE
- REMOVE EXISTING GRAVEL/ SAND
- SAWCUT LINE
- EDGE OF GRAVEL LINE

ACCESS NOTES

CONTRACTOR TO COORDINATE WITH WESTERLY ADJOINING PROPERTY OWNER AND ENSURE ACCESS FOR INGRESS/EGRESS IS MAINTAINED DURING ALL CONSTRUCTION.

DEMOLITION NOTES

ITEMS SPECIFICALLY IDENTIFIED TO BE REMOVED SHALL BE DISPOSED OF APPROPRIATELY OFF-SITE.

UTILITY ABANDONMENT NOTES

UTILITIES, OR INTERFERING PORTIONS OF UTILITIES, THAT ARE ABANDONED IN PLACE SHALL BE REMOVED BY THE CONTRACTOR TO THE EXTENT NECESSARY TO ACCOMPLISH THE WORK. THE CONTRACTOR SHALL PLUG THE REMAINING EXPOSED ENDS OF ABANDONED UTILITIES. SEE ADDITIONAL NOTES ON C001.

EROSION CONTROL

SEE C200 SERIES SHEETS FOR EROSION CONTROL FENCING, INLET PROTECTION, ETC. BMP'S SHALL BE IN PLACE PRIOR TO ANY DISTURBANCE.

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 RANDLE, WA 98377

DEMOLITION PLAN

PROJECT # JAPC-22
 DATE 12/27/2023

REV #	DATE	DESCRIPTION

SITE INFORMATION

MOUNTAIN VIEW LIBRARY
 ADDRESS: 10111 US HIGHWAY 12
 RANDLE, WA 98377
 PROPERTY ID: 031753005001
 S/T/R: NW 1/4, S15, T12N, R7E
 TOTAL PARCEL AREA= 1.0 ACRES
 ZONING: COMMERCIAL/RETAIL

APPLICANT/OWNER

TIMBERLAND REGIONAL LIBRARY
 415 TUMWATER BLVD. SW
 TUMWATER, WA. 98501
 CONTACT: TANIAH NAJIH
 (360) 943-5001
 TNAJIH@TRL.ORG

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TREES/PLANTINGS

SEE LANDSCAPING PLAN FOR ALL
 PROPOSED PLANTINGS, INCLUDING
 STREET TREES.

PROPOSED PARKING COUNT

	STANDARD	A.D.A.	TOTAL
REQUIRED	11	1	12
PROPOSED	17	1	18

PARKING SUMMARY

PER LEWIS COUNTY CODE, A LIBRARY REQUIRES 1 SPACE PER 300 S.F. OF BUILDING SPACE

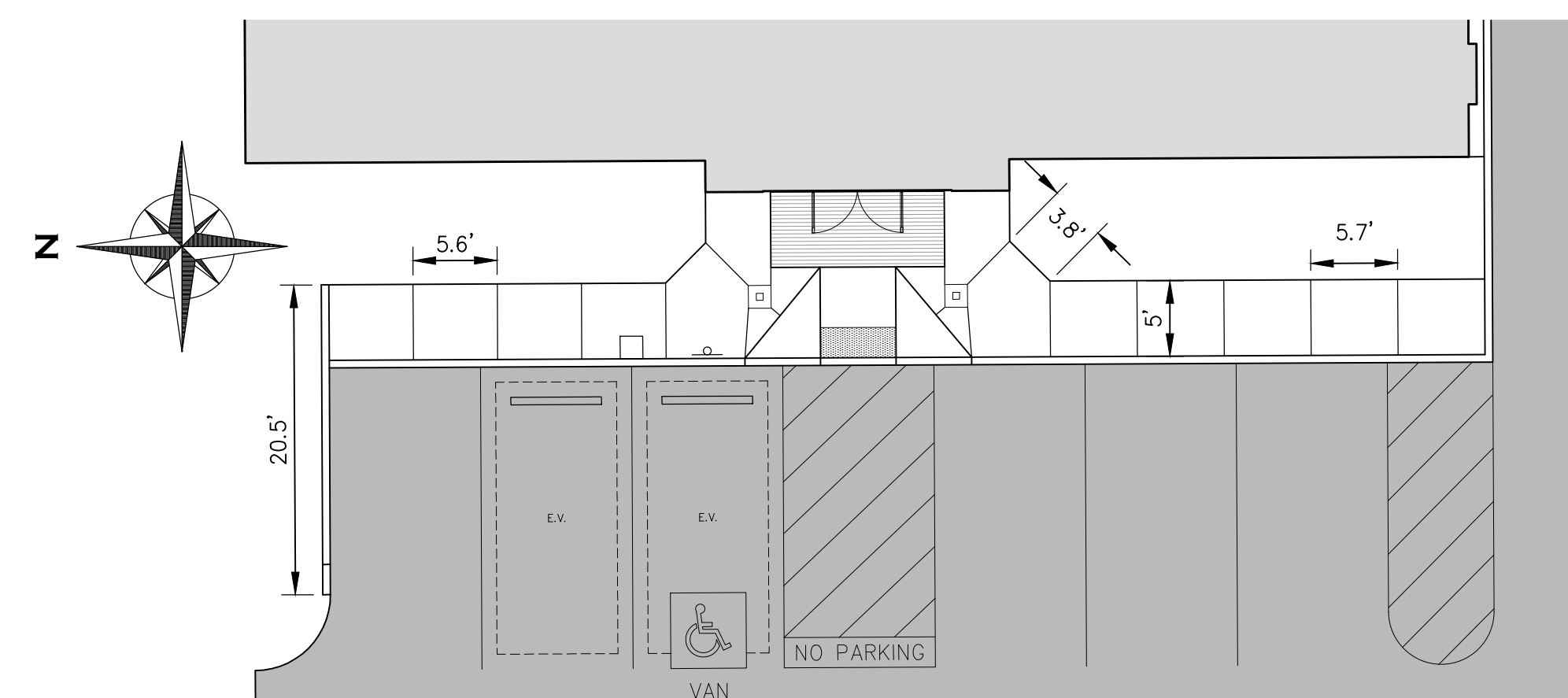
TOTAL REQUIRED PARKING :
 LIBRARY: 3,500 S.F. * 1/300 = 11.7 STALLS = 12 STALLS REQ'D

A.D.A. ACCESSIBLE PARKING

A.D.A. PARKING REQUIREMENT IS BASED ON THE NUMBER OF STALLS PROVIDED. FOR 17 TOTAL STALLS PROVIDED, 1 A.D.A. STALL IS REQUIRED (1 PROVIDED).

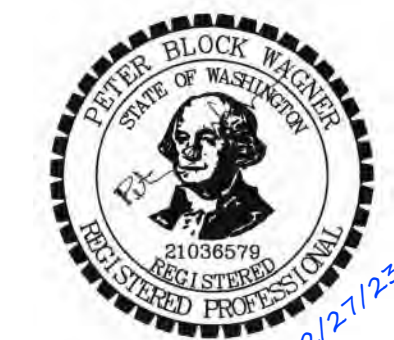
SITE PLAN NOTES

- 100 PROPOSED LIBRARY BUILDING - SEE ARCHITECTURAL PLANS FOR FLOOR PLAN, ELEVATIONS, AND DETAILED AREA BREAKDOWN.
- 101 CONSTRUCT CONCRETE CURB PER DETAIL 4/C101.
- 102 CONSTRUCT PEDESTRIAN CONCRETE SECTION PER DETAIL 2/C101.
- 103 REFER TO STRUCTURAL PLANS FOR INFORMATION REGARDING CONCRETE HOUSEKEEPING PAD. (43" X 50" PAD)
- 104 CONSTRUCT HOT MIX ASPHALT (H.M.A.) PAVEMENT SECTION PER DETAIL 1/C101.
- 105 INSTALL CONCRETE WHEEL STOP PER DETAIL 5/C101.
- 106 STRIPE 4" WIDE WHITE LINE FOR PARKING STALLS AS SHOWN.
- 107 PAINT A.D.A. SYMBOL PER DETAIL 6/C101.
- 108 INSTALL A.D.A. SIGN PER DETAIL 7/C101.
- 109 PAINT A.D.A. LOADING AISLE STRIPING AS SHOWN AND PER DETAIL 8/C101. WIDTH PER PLAN
- 110 INSTALL TRAPEZOIDAL A.D.A. RAMP WITH TRUNCATED DOME DETECTABLE WARNING SURFACE, WIDTH PER DETAIL 3/C101.
- 111 PAINT CROSS STRIPING AS SHOWN AND PER DETAIL 8/C101.
- 112 PAINT DIRECTIONAL ARROWS AS SHOWN AND PER DETAIL 9/C101.
- 113 CONSTRUCT 6" THICK 6' x 6' CONCRETE PAD FOR ELECTRICAL TRANSFORMER.
- 114 DESIGNATED LOCATION FOR FUTURE ELECTRICAL VEHICLE CHARGING STALLS.
- 115 STORMWATER BIORETENTION FACILITY, REFER TO C300 SERIES SHEETS.
- 116 APPROXIMATE SITE MONUMENT SIGN LOCATION. SEE ARCHITECTURAL PLANS FOR DETAILS. LOCATE OUTSIDE SIGHT VISION CLEARANCE ZONE, AND COORDINATE EXACT LOCATION WITH ARCHITECT IN THE FIELD.
- 117 TAPER CURB FROM 6" EXPOSURE TO 0" EXPOSURE, LENGTH PER PLAN.
- 118 6" TALL CHAINLINK FENCE WITH PRIVACY SLATS TO BE INSTALLED BY OTHERS (NOT IN CONTRACT).
- 119 INSTALL "BOOK DROP" SIGN PER DETAIL 10/C101.



BUILDING ENTRANCE ENLARGEMENT

SCALE: 1" = 10'



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MOUNTAIN VIEW LIBRARY

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SITE PLAN

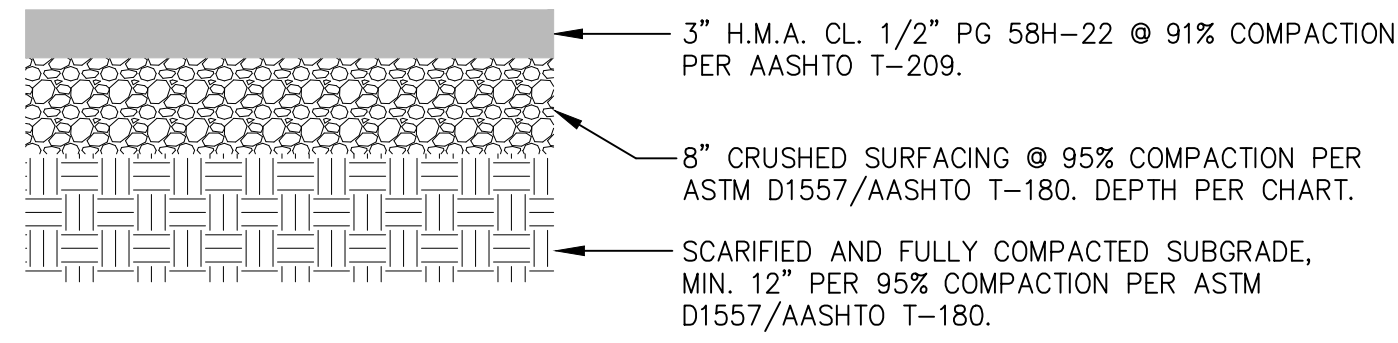
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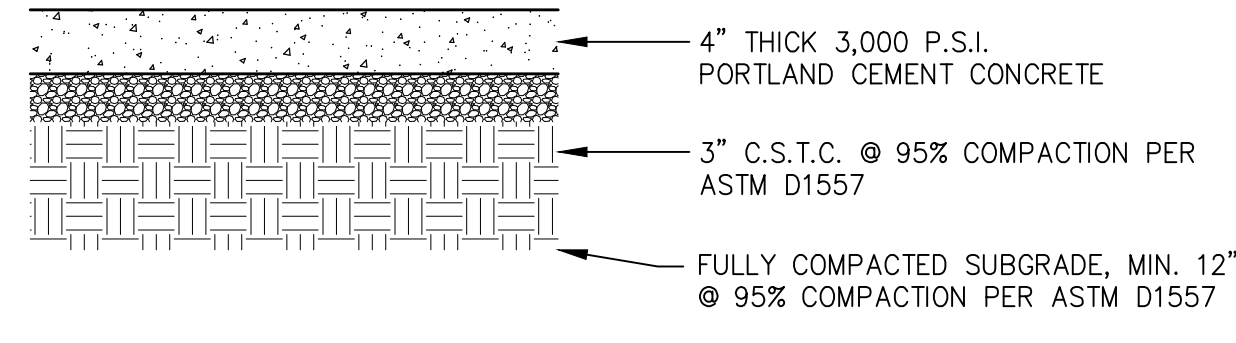


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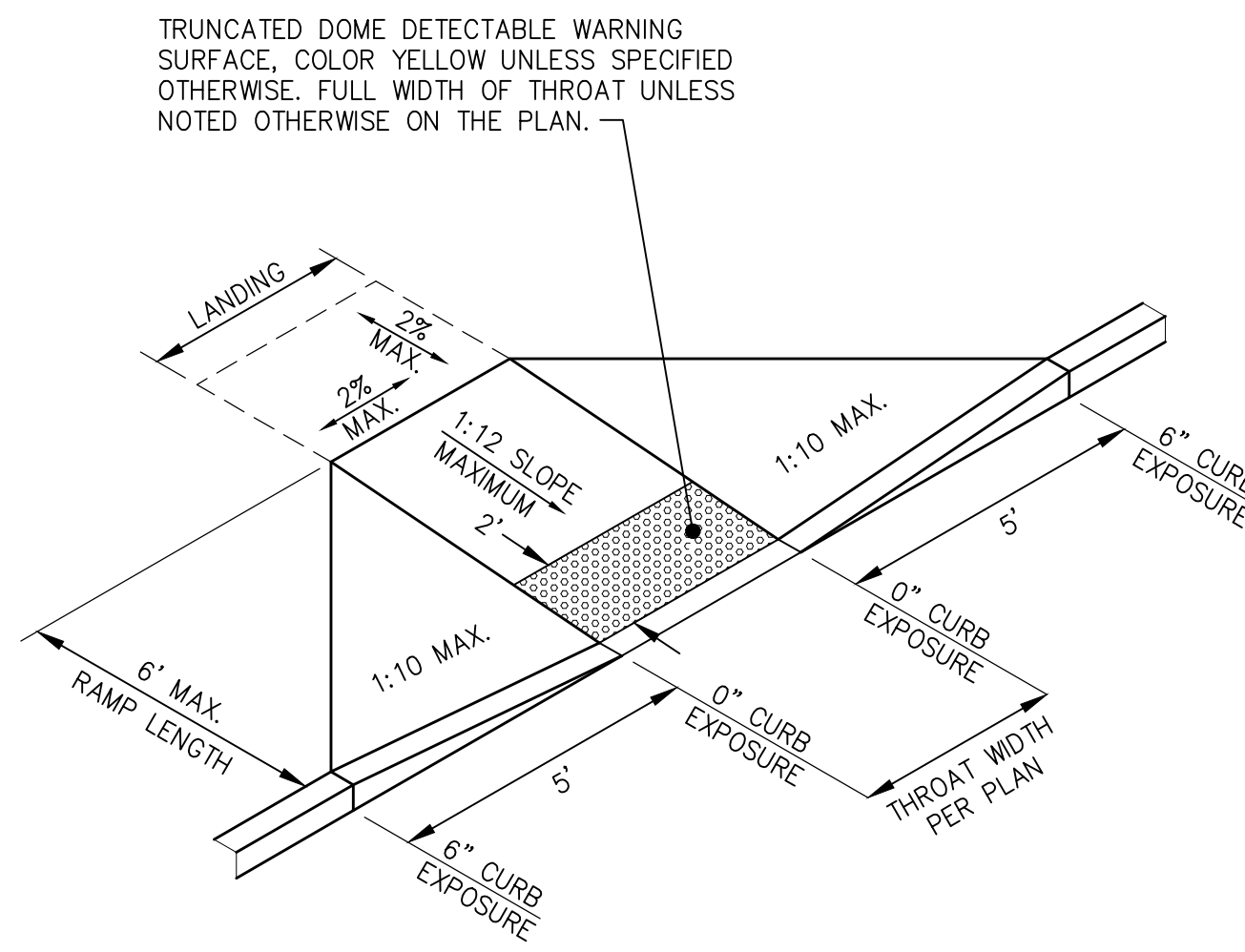
C100
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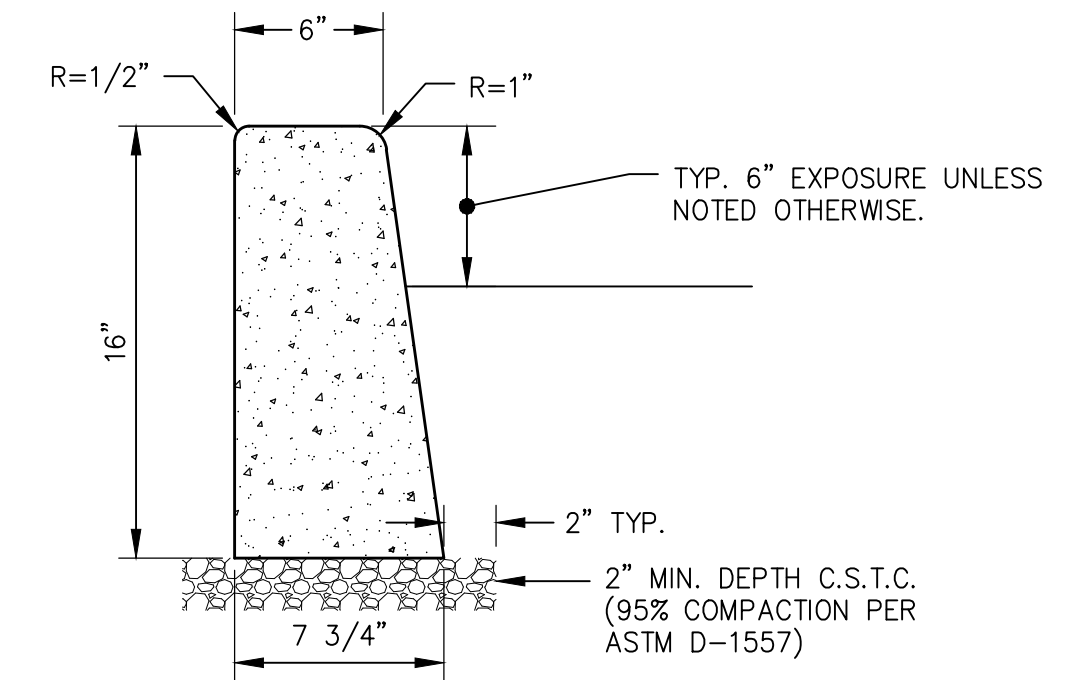
1 H.M.A. SECTION
N.T.S.



2 PEDESTRIAN CONCRETE SECTION
N.T.S.

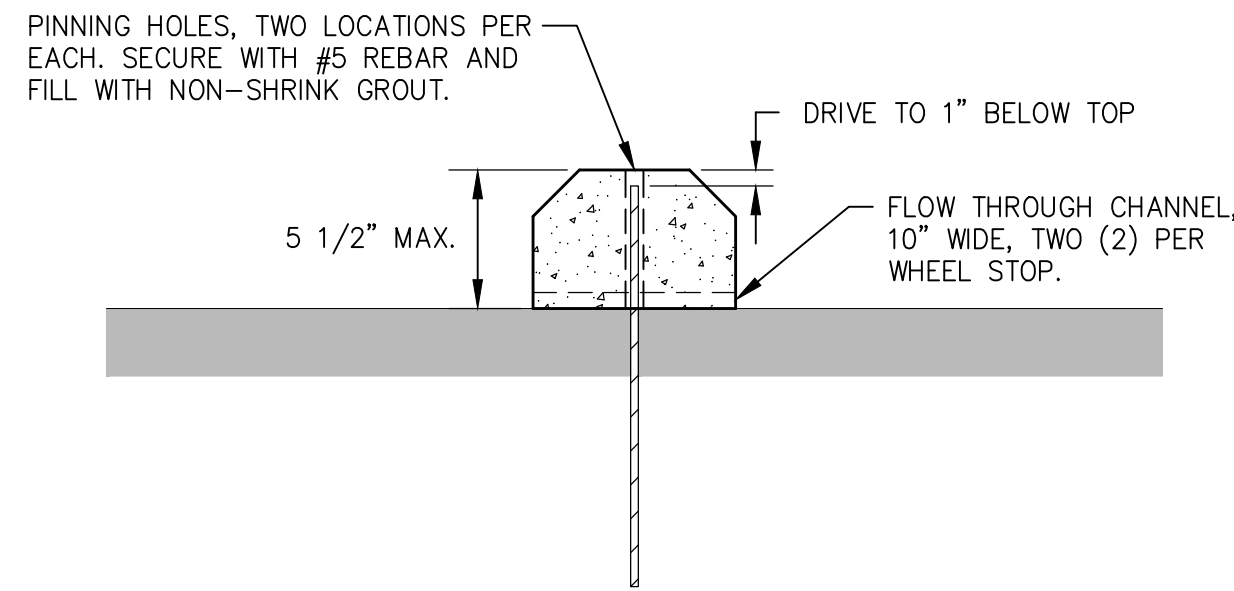


3 TRAPEZOIDAL RAMP
N.T.S.



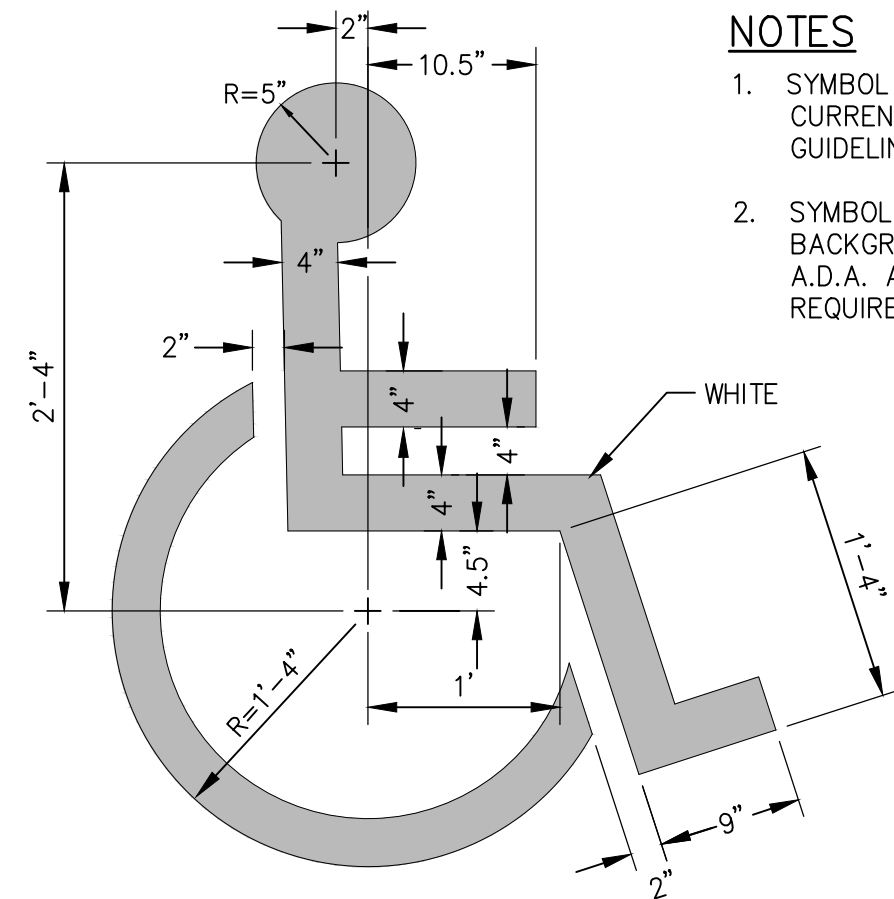
- NOTES
- CONCRETE CURBS SHALL BE 3,000 PSI MIN., 3 1/2" SLUMP MAX.
 - LIGHT BROOM FINISH IN DIRECTION OF CURB.
 - CURBS ADJACENT TO SIDEWALK SHALL HAVE EXPANSION AND/OR CONTRACTION JOINTS TO MATCH SIDEWALK.
 - CONTRACTION JOINTS AT 15' MAX. SPACING.

4 CONCRETE CURB
N.T.S.



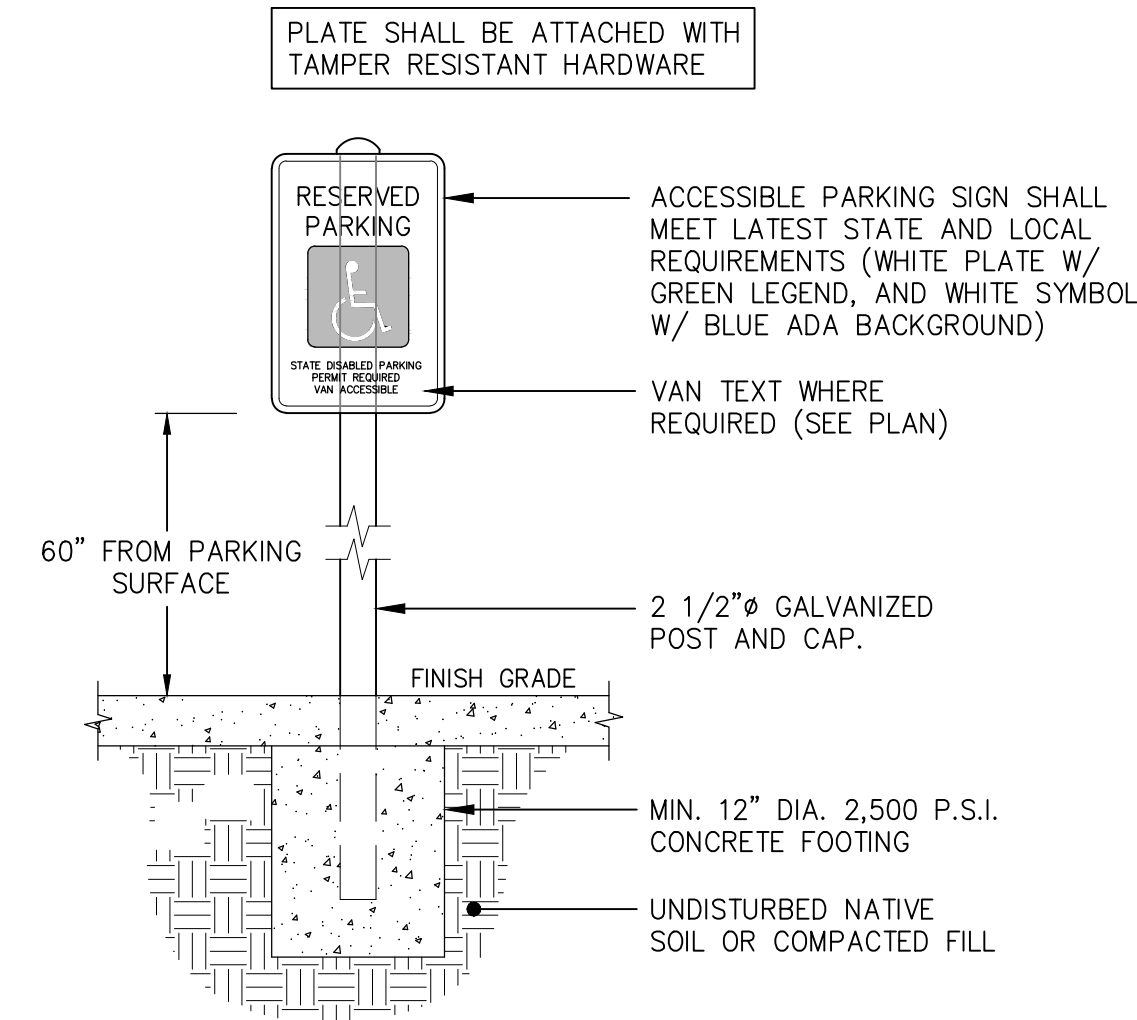
- NOTES
- WHEEL STOP SHALL BE PRECAST CONCRETE WHEEL STOP. INSTALL "6" WHEEL STOP W/ SCUPPERS" AS MANUFACTURED BY MICHAELS PRECAST CONCRETE (WWW.MICHAELSPRECAST.COM), OR APPROVED EQUAL.
 - DOWEL INTO PLACE WITH 18" #5 REBAR.
 - FACE OF WHEEL STOP (CAR SIDE) SHALL BE PLACED 2.5' BACK FROM THE FRONT OF THE PARKING STALL.

5 CONCRETE WHEEL STOP
N.T.S.

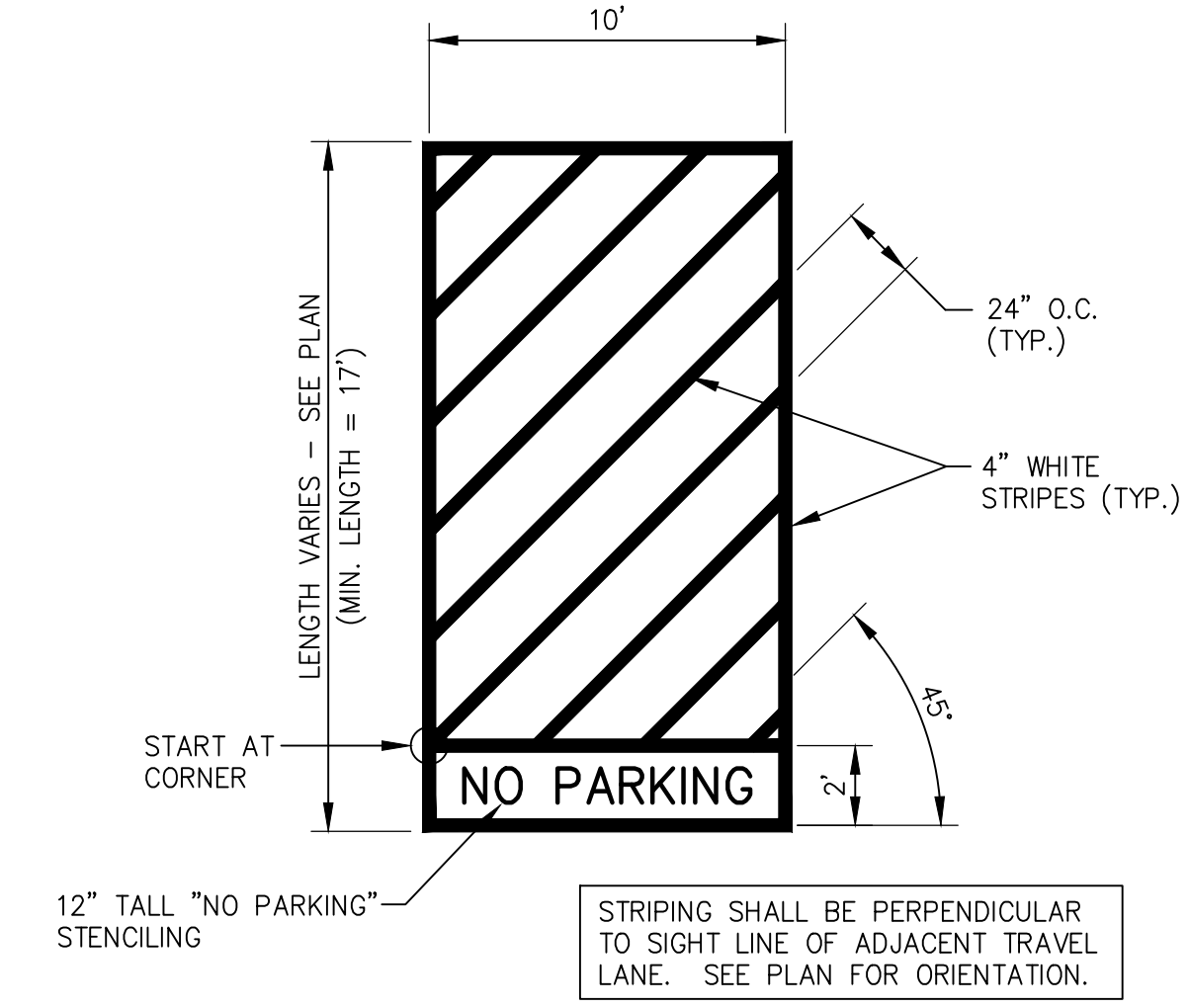


- NOTES
- SYMBOL AND PAINT SHALL MEET CURRENT A.D.A. ACCESSIBILITY GUIDELINE REQUIREMENTS.
 - SYMBOL SHALL HAVE A BLUE BACKGROUND MEETING CURRENT A.D.A. ACCESSIBILITY GUIDELINE REQUIREMENTS.

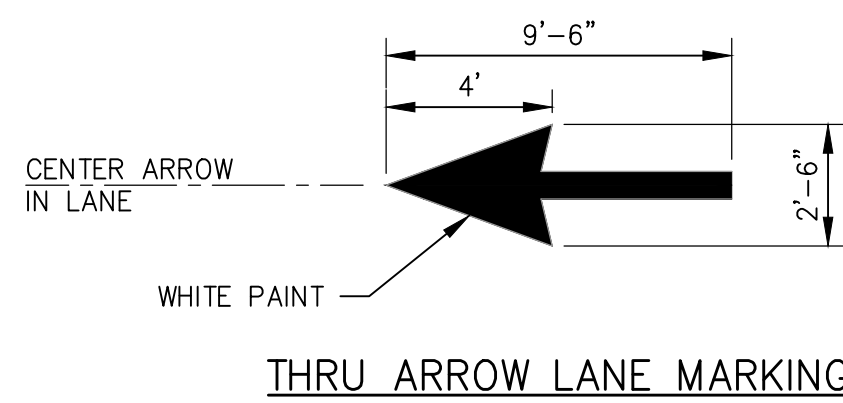
6 ACCESSIBLE PARKING SYMBOL
N.T.S.



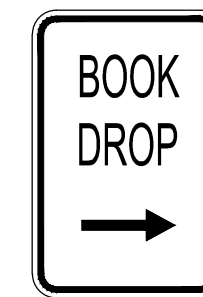
7 ACCESSIBLE PARKING SIGN
N.T.S.



8 LOADING AISLE CROSS STRIPING
N.T.S.

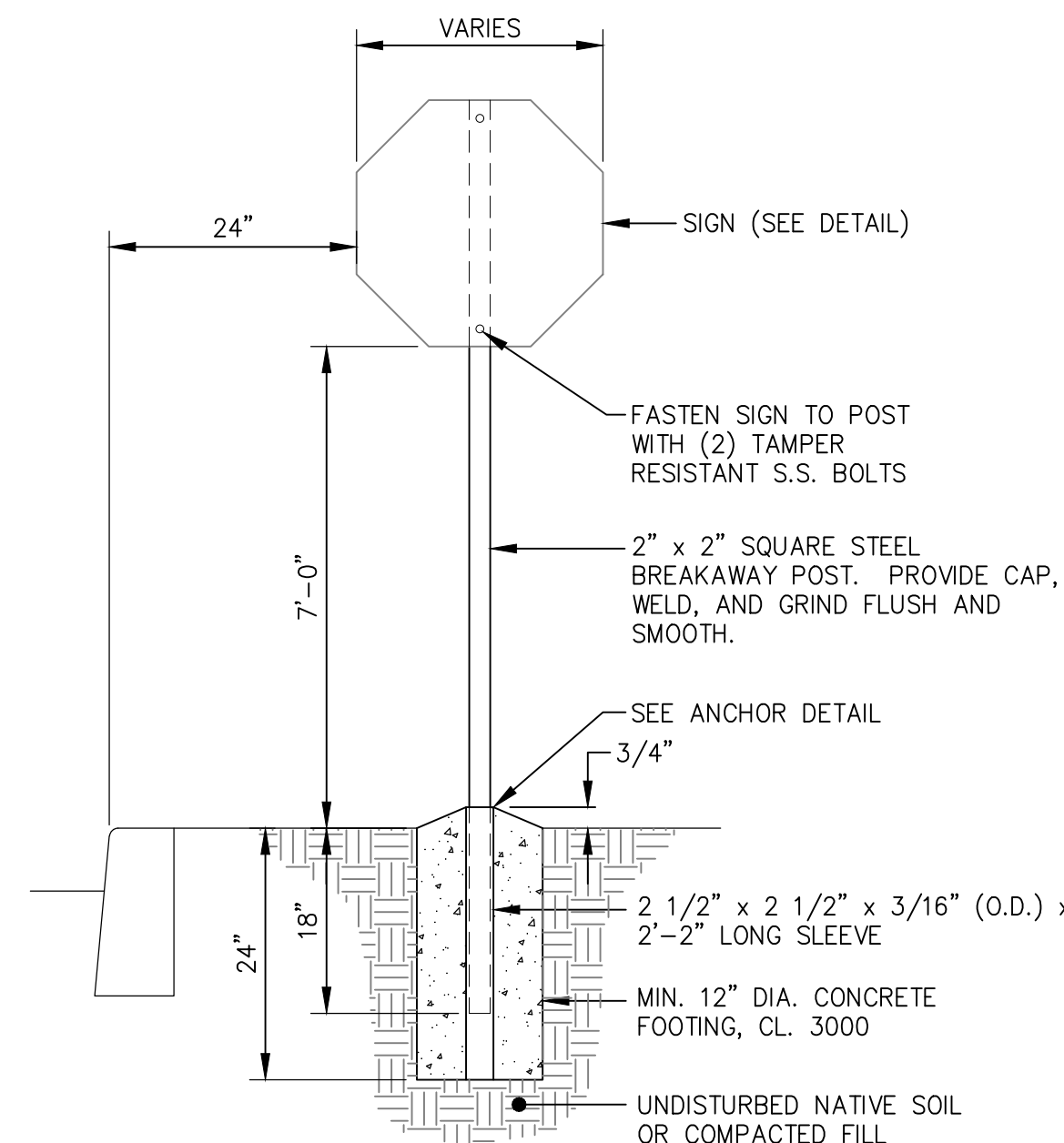


9 DIRECTIONAL ARROW MARKING
N.T.S.

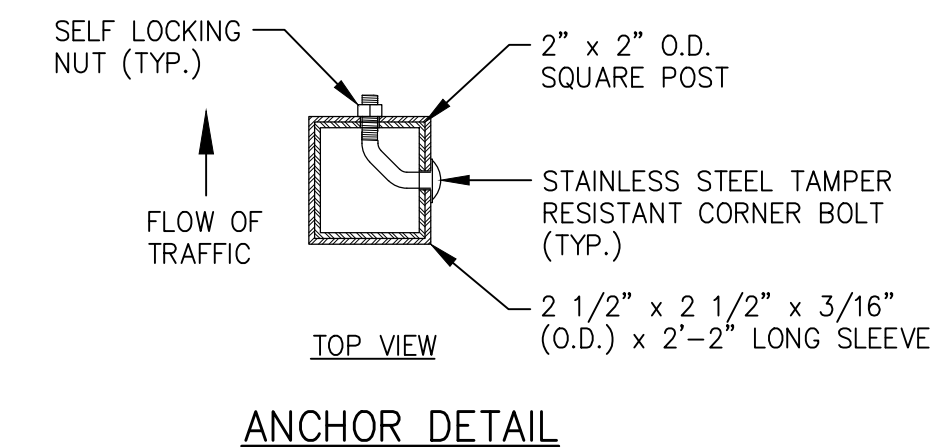


"BOOK DROP" SIGN. 12" x 18" PLATE W/ BLACK RETROREFLECTIVE LEGEND ON WHITE RETROREFLECTIVE BACKGROUND ON GROUND MOUNT PER DETAIL 12/C-101. MATERIALS AND CONSTRUCTION PER MUTCD.

10 BOOK DROP SIGN
N.T.S.



11 GROUND MOUNT POST DETAIL
N.T.S.



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SITE DETAILS

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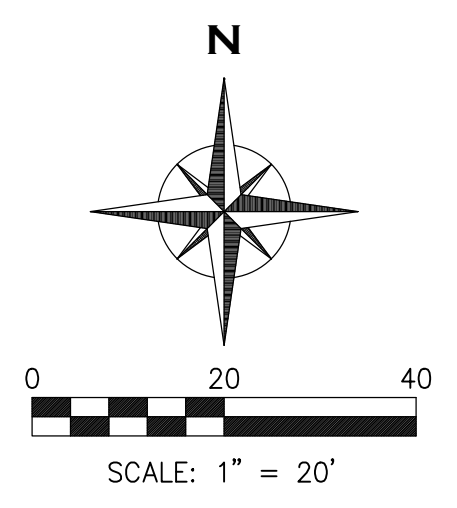
GRADING AND EC PLAN

PROJECT # JAPC-22
DATE 12/27/2023

REV #	DATE	DESCRIPTION

C200

BID SET

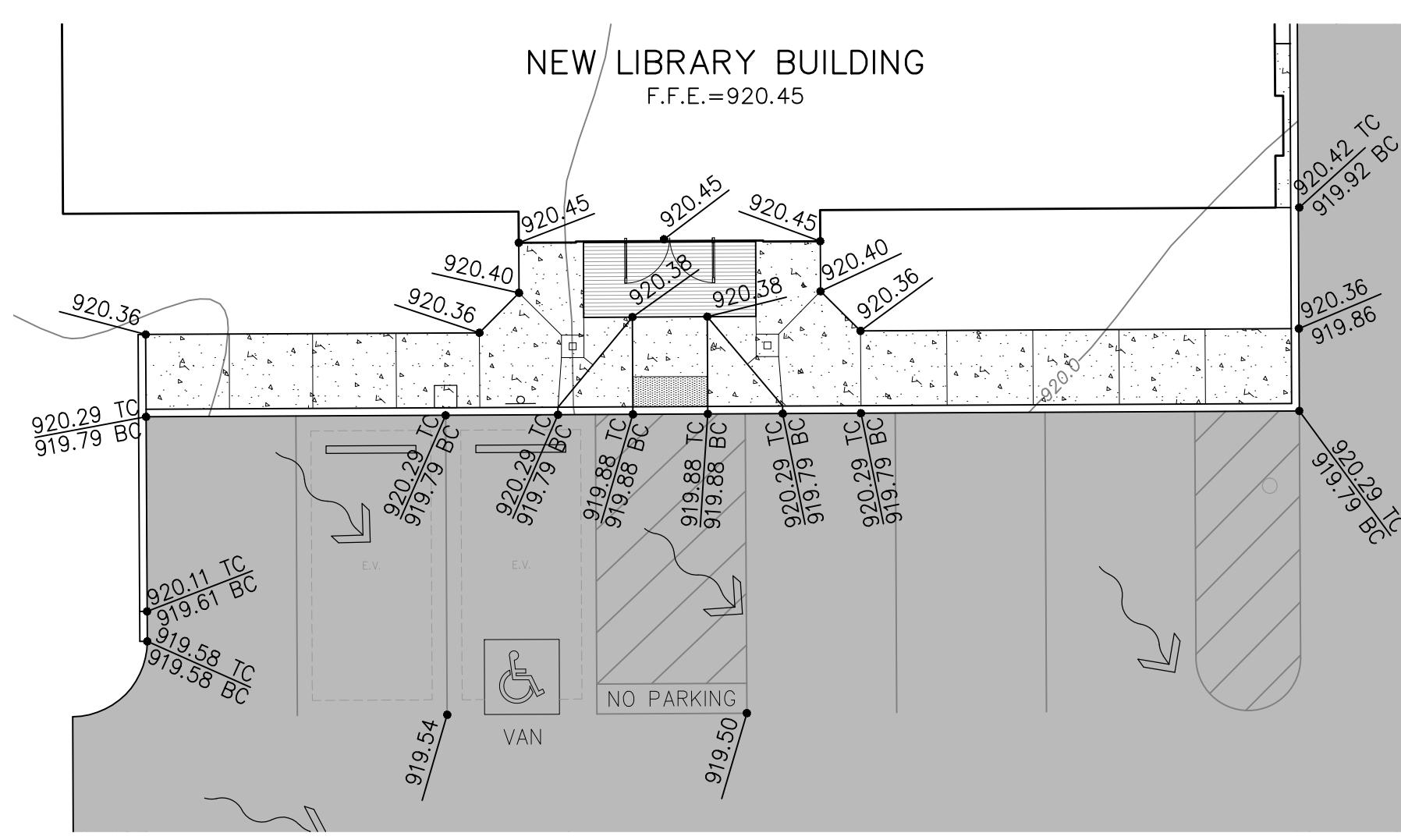
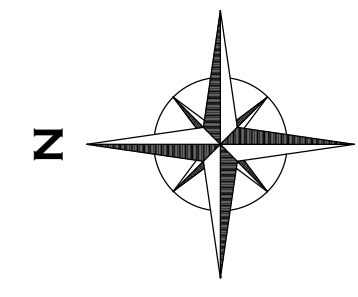


GRADING AND E.C. PLAN NOTES

- (200) INSTALL TEMPORARY INLET PROTECTION PER DETAIL ON C201.
- (201) INSTALL TEMPORARY SILT FENCE PER DETAIL ON C201.
- (202) CONSTRUCT SHALLOW SWALE AT 4' OFFSET FROM EDGE OF PAVEMENT. SEE PLAN FOR LONGITUDINAL SLOPE. CONSTRUCT RIP-RAP OUTFALL PROTECTION OVER AN AREA OF 20 SQUARE FEET AT END OF SWALE. RIP-RAP SHALL BE 1" TO 2" IN SIZE, AND PLACED TO A DEPTH OF 3" MIN. AND FLUSH WITH FINISH GRADE.

LEGEND

- STORM DRAINAGE SURFACE FLOW DIRECTION
- FINISH GRADE SPOT ELEVATION
SW = SIDEWALK
TC = TOP OF CURB
BC = BOTTOM OF CURB
RIM = STRUCTURE RIM
EG = EXISTING GRADE
- NOTE: ELEVATIONS ARE AT FLOW LINE UNLESS NOTED OTHERWISE.
- SAWCUT LINE
- GRADING SWALE CENTERLINE
- TEMPORARY SILT FENCE
- EXISTING CONTOUR
- TEMPORARY INLET PROTECTION

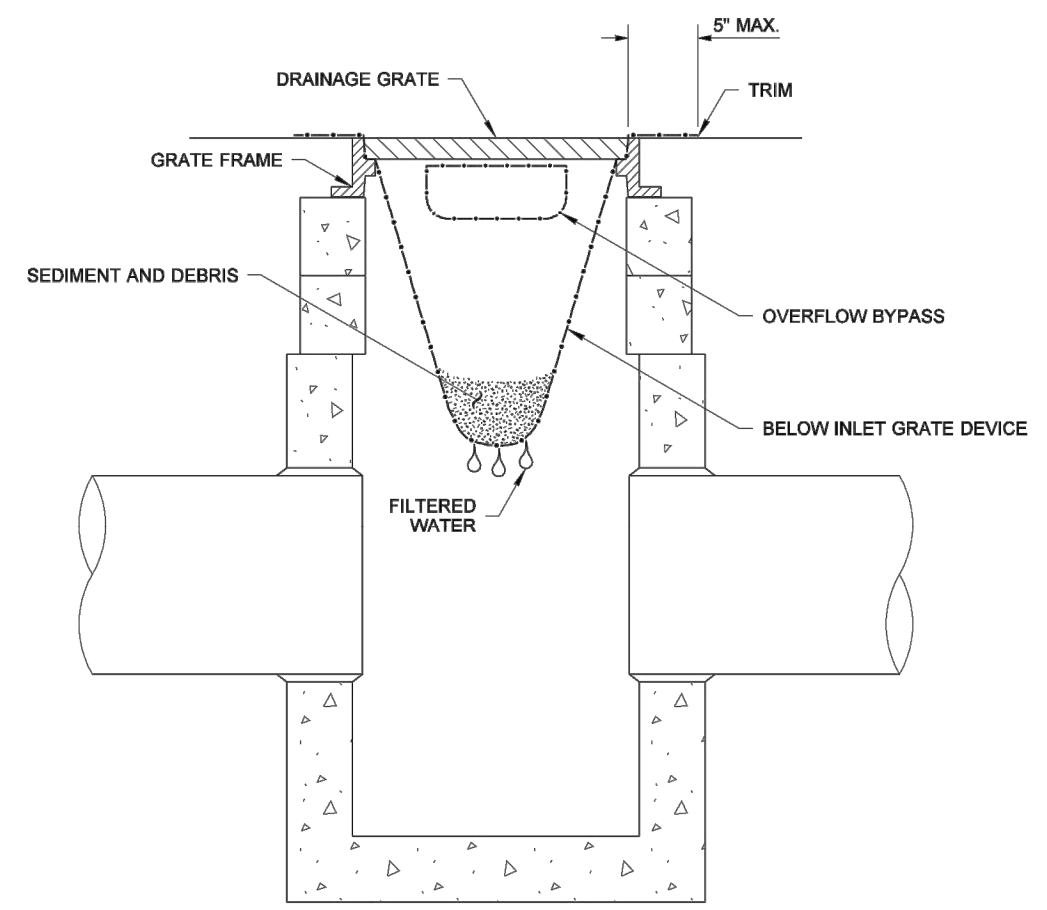


BUILDING ENTRANCE ENLARGEMENT

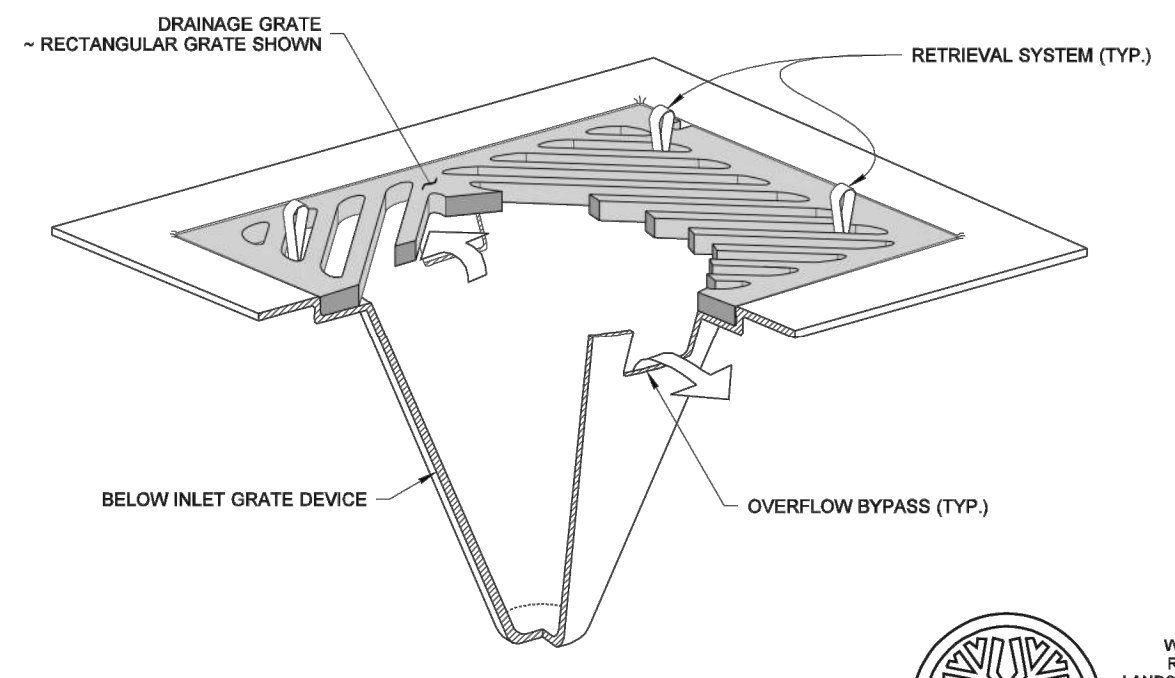
SCALE: 1" = 10'

DRAWN BY: LISA CYFORD

- NOTES**
1. Size the Below Inlet Grate Device (BIGD) for the storm water structure it will service.
 2. The BIGD shall have a built-in high-flow relief system (overflow bypass).
 3. The retrieval system must allow removal of the BIGD without spilling the collected material.
 4. Perform maintenance in accordance with Standard Specification 8-01.3(15).



SECTION VIEW
NOT TO SCALE



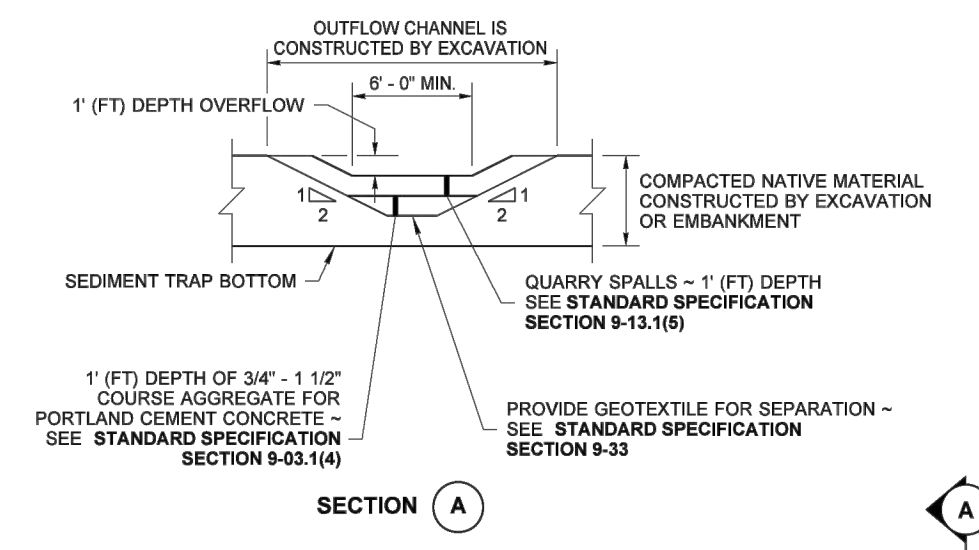
ISOMETRIC VIEW

STATE OF WASHINGTON REGISTERED LANDSCAPE ARCHITECT
MARK W. MAURER
 CERTIFICATE NO. 000598

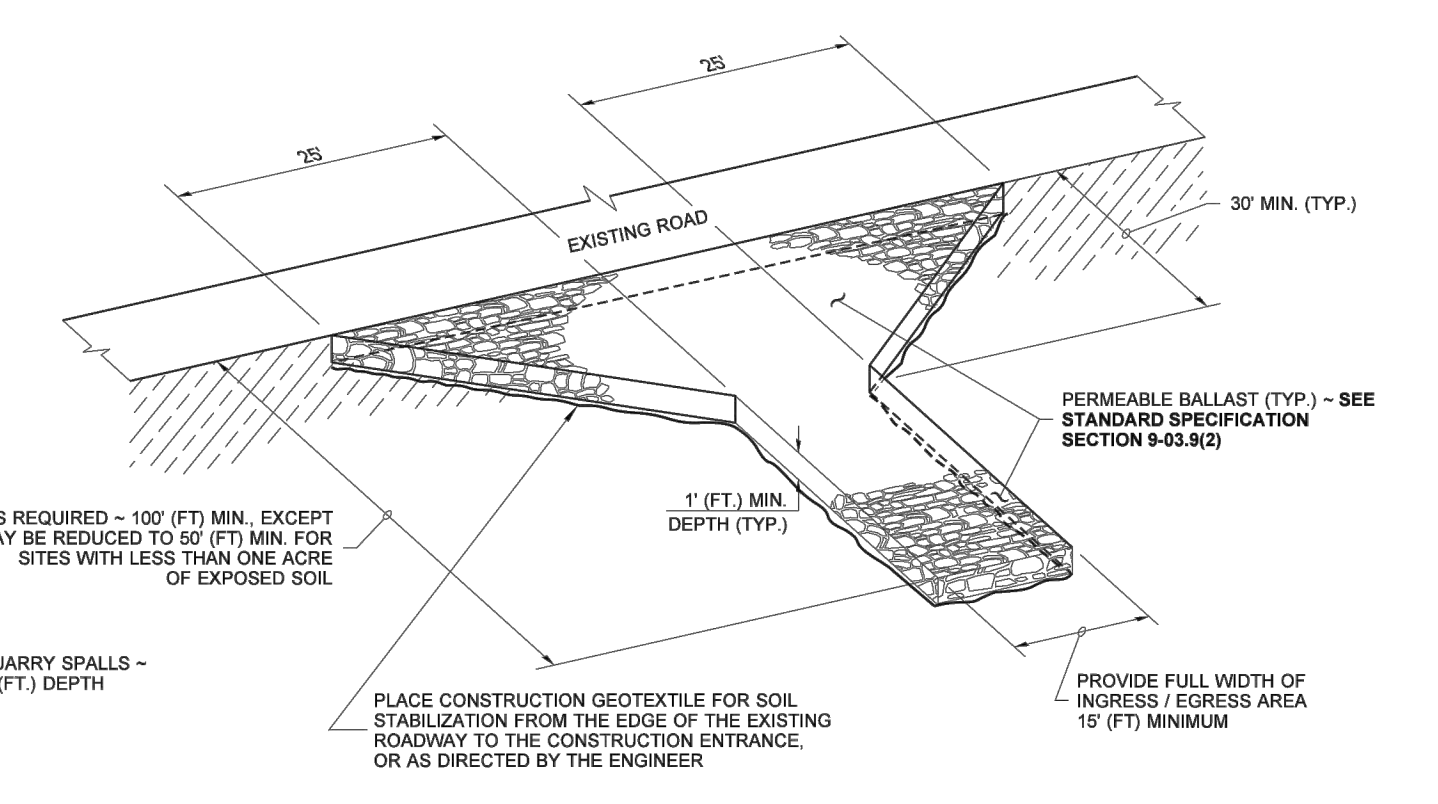
STORM DRAIN INLET PROTECTION
STANDARD PLAN I-40.20-00
 SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION
Pasco Bakotich III 09-20-07
 STATE DESIGN ENGINEER DATE
 Washington State Department of Transportation

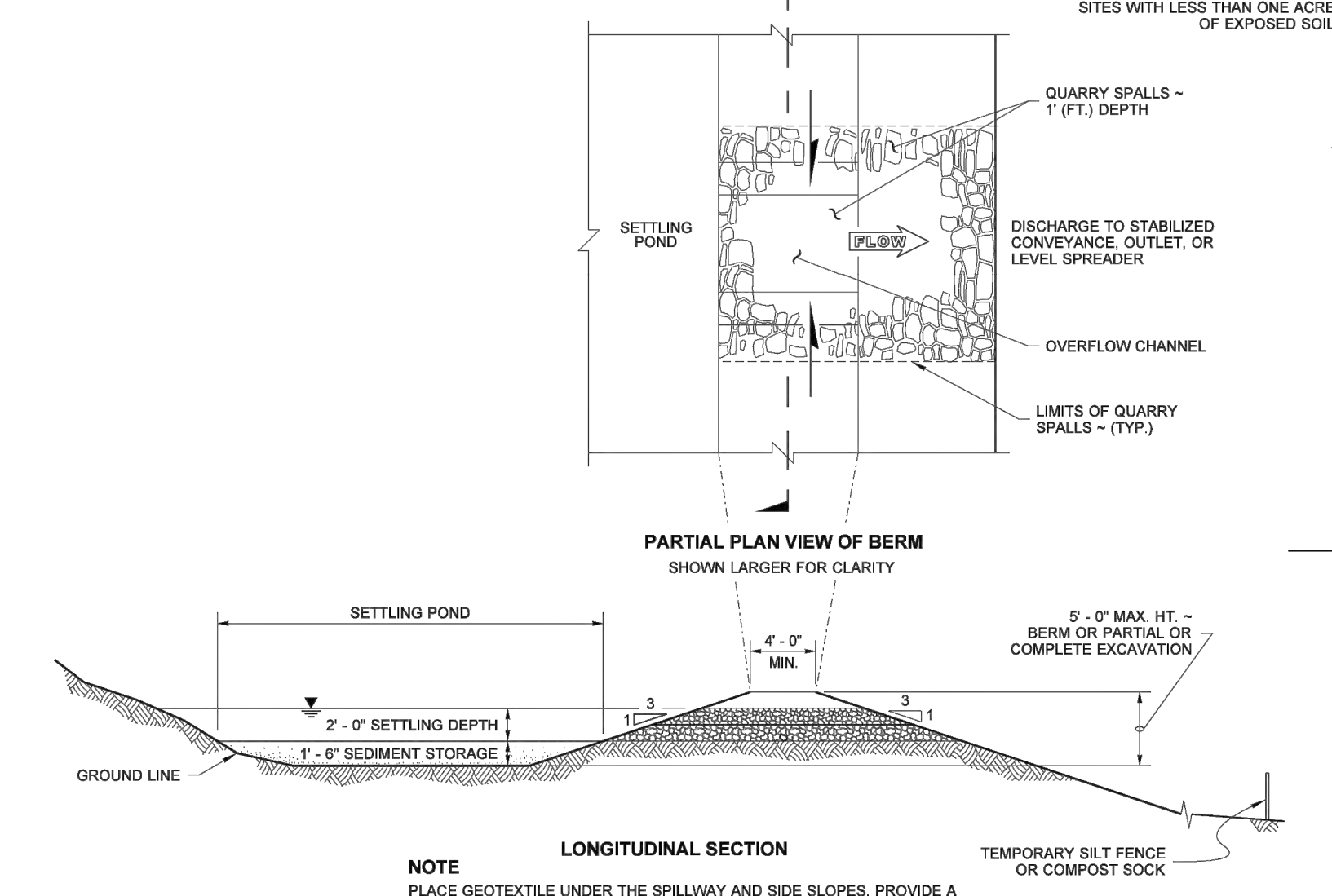
DRAWN BY: FERN LIJDELL



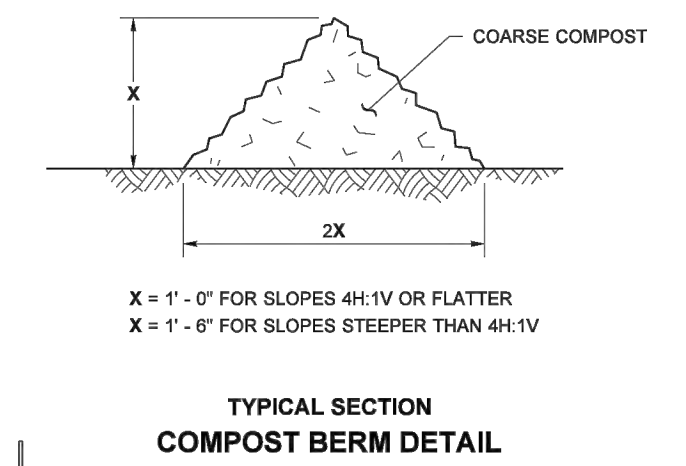
SECTION A



ISOMETRIC VIEW
STABILIZED CONSTRUCTION ENTRANCE
STABILIZED CONSTRUCTION ENTRANCE SHALL MEET THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 8-01.3(7).



LONGITUDINAL SECTION
TEMPORARY SEDIMENT TRAP



TYPICAL SECTION
COMPOST BERM DETAIL

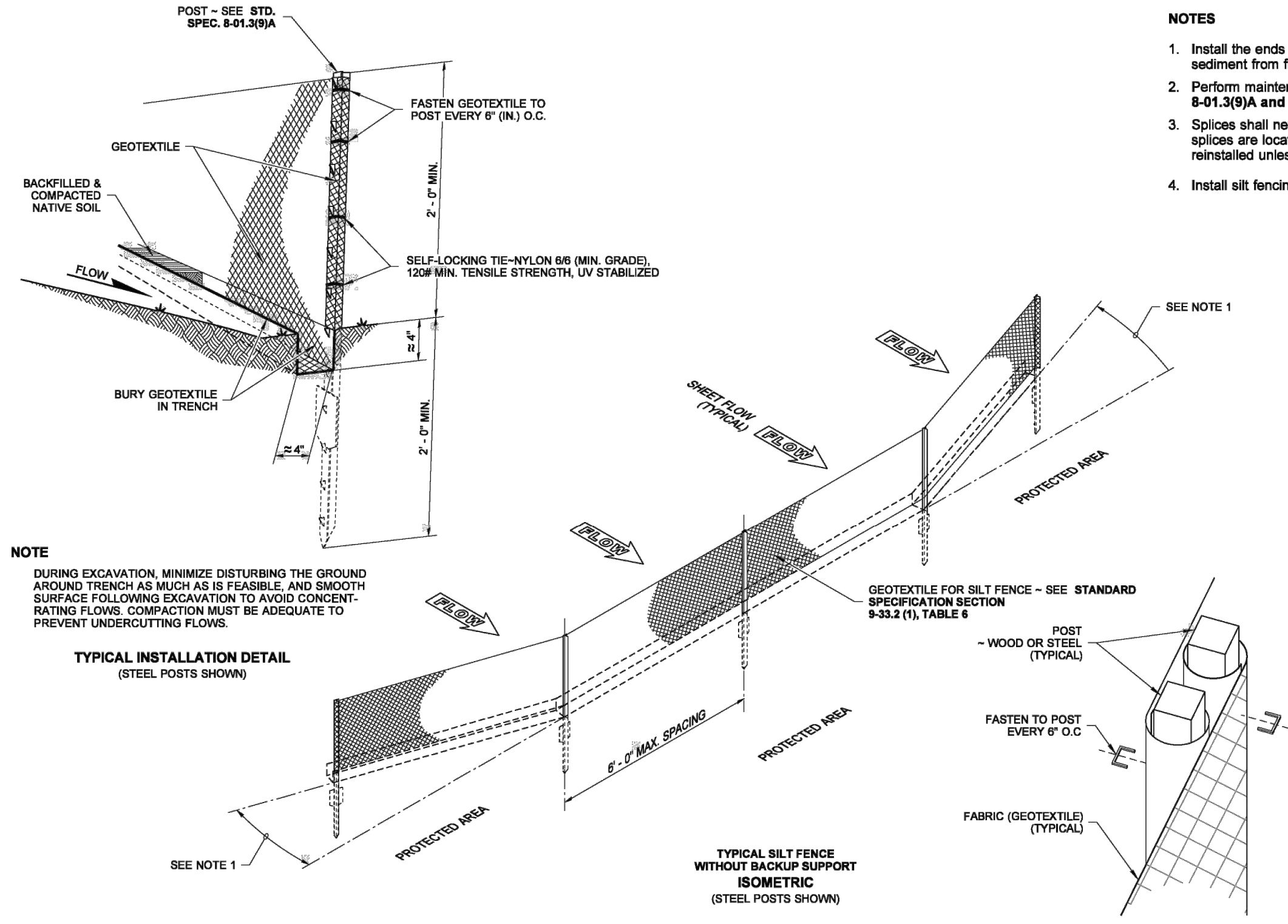
STATE OF WASHINGTON REGISTERED LANDSCAPE ARCHITECT
JULIE DEE HARTWIG
 LICENSE NO. 1422
 DATE: 05-21-17

MISCELLANEOUS EROSION CONTROL DETAILS
STANDARD PLAN I-80.10-02
 SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION
Carpanter, Jeff
 Jul 15 2016 2:31 PM
 STATE DESIGN ENGINEER
 Washington State Department of Transportation

DRAWN BY: BILL BERENS

- NOTES**
1. Install the ends of the silt fence to point slightly upslope to prevent sediment from flowing around the ends of the fence.
 2. Perform maintenance in accordance with Standard Specifications 8-01.3(9)A and 8-01.3(15).
 3. Splices shall never be placed in low spots or sump locations. If splices are located in low or sump areas, the fence may need to be reinstalled unless the Project Engineer approves the installation.
 4. Install silt fencing parallel to mapped contour lines.



TYPICAL INSTALLATION DETAIL
(STEEL POSTS SHOWN)

TYPICAL SILT FENCE WITHOUT BACKUP SUPPORT
ISOMETRIC
(STEEL POSTS SHOWN)

STATE OF WASHINGTON REGISTERED LANDSCAPE ARCHITECT
SANDRA L. SALISBURY
 CERTIFICATE NO. 002860

SILT FENCE
STANDARD PLAN I-30.15-02
 SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION
Pasco Bakotich III 3/22/13
 STATE DESIGN ENGINEER DATE
 Washington State Department of Transportation

SPliced FENCE SECTIONS SHALL BE CLOSE ENOUGH TOGETHER TO PREVENT SILT LADEN WATER FROM ESCAPING THROUGH THE FENCE AT THE OVERLAP.
SPlice DETAIL
(WOOD POSTS SHOWN)



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EROSION CONTROL DETAILS

PROJECT # JAPC-22
DATE 12/27/2023

REV #	DATE	DESCRIPTION

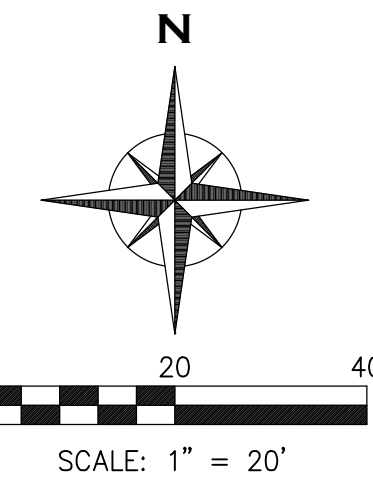
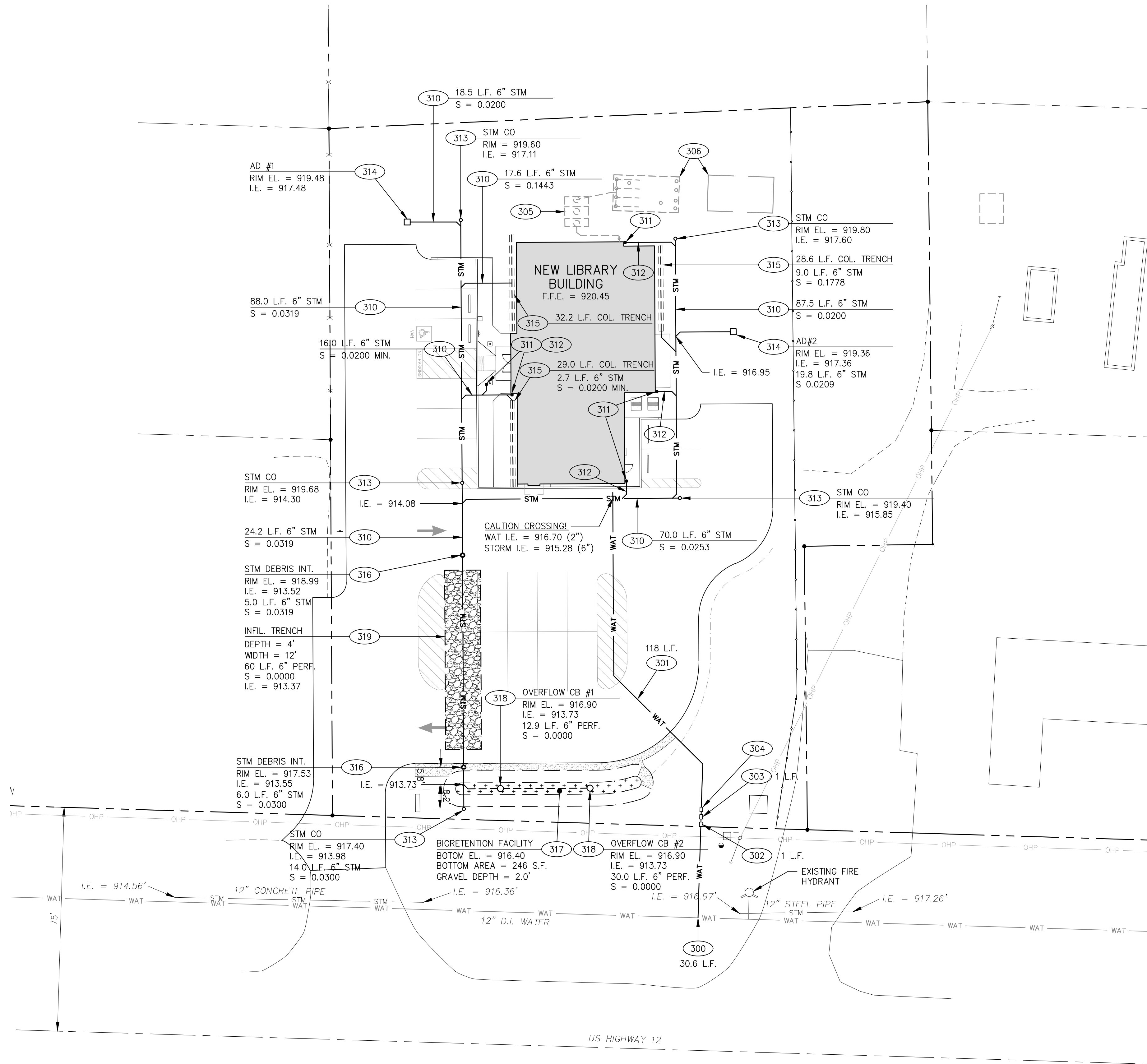
ROBERTSON FICK ENGINEERING PC
 13115 NE 4th St. #240, Vancouver, WA 98684 | (360) 975-4995

C201
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WATER AND SANITARY PLAN NOTES

- 300 PRIOR TO CONSTRUCTION, FIELD VERIFY TO CONFIRM EXACT LOCATION, DEPTH, AND PIPE SIZE. TAP WITH SERVICE SADDLE AND INSTALL 2" DOMESTIC WATER SERVICE LINE. LENGTH PER PLAN. BEDDING PER WSDOT STANDARD SPECIFICATIONS (SECTION 9-03.2(1)).
- 301 INSTALL 2" DOMESTIC WATER SERVICE LINE. LENGTH PER PLAN.
- 302 INSTALL 1" METER IN BOX AND 2" WATER SERVICE LINE. LENGTH PER PLAN.
- 303 INSTALL 1" PRESSURE REDUCING VALVE (P.R.V.) IN BOX AND 2" WATER SERVICE LINE. LENGTH PER PLAN. SET P.R.V. TO 80 PSI OUTLET PRESSURE.
- 304 INSTALL 1" WA STATE-APPROVED D.C.V.A. DEVICE IN BOX.
- 305 REFER TO SEPTIC PLANS BY HEWITT ENGINEERING.
- 306 SEE SEPTIC PLANS FOR INFORMATION REGARDING 24' x 10' PRIMARY AND RESERVE SEPTIC AREAS.

STORM PLAN NOTES

- 310 INSTALL PRIVATE STORM PIPING. SEE PLAN FOR SIZE, SLOPE, AND INVERT ELEVATIONS. BEDDING AND BACKFILL PER DETAIL 1/C301. PROVIDE ADDITIONAL BENDS AND FITTINGS AS NEEDED TO MAKE HORIZONTAL AND VERTICAL ALIGNMENTS.
- 311 DOWNSPOUT LOCATION. SEE ARCHITECTURAL AND PLUMBING PLANS FOR ADDITIONAL INFORMATION AND COORDINATION. INVERT OF SITE PIPING SHALL START AT 2.0' BELOW FFE.
- 312 INSTALL 4" DIA. ROOF DRAIN LINE TO STORM COLLECTOR LINE, 2% MIN. SLOPE.
- 313 INSTALL CLEANOUT PER DETAIL 2/C301. SEE PLAN FOR RIM AND INVERT ELEVATION.
- 314 INSTALL AREA DRAIN PER DETAIL 3/C301. SEE PLAN FOR RIM, INVERT ELEVATION, AND OTHER PIPE INFORMATION
- 315 INSTALL COLLECTION TRENCH PER DETAIL 4/C301. SEE PLAN FOR LENGTH.
- 316 INSTALL STORMWATER DEBRIS INTERCEPTOR PER DETAIL 8/C301. SEE PLAN FOR RIM, INVERT ELEVATION, AND OTHER PIPE INFORMATION
- 317 CONSTRUCT BIORETENTION FACILITY PER DETAIL 9/C301. SEE PLAN FOR MIN. BOTTOM AREA, ELEVATION, AND DRY/WET SOIL BREAK LINE.
- 318 INSTALL OVERFLOW BYPASS CATCH BASIN PER DETAIL 7/C301. SEE PLAN FOR RIM AND INVERT ELEVATION.
- 319 CONSTRUCT INFILTRATION TRENCH (BMP RS.11) PER DETAIL 6/C301. SEE PLAN FOR DIMENSIONS AND PIPE SIZE.

INFILTRATION FACILITY TESTING NOTES

AT THE TIME THE PERMANENT INFILTRATION FACILITIES ARE EXCAVATED TO THE FACILITY BOTTOM, THE CONTRACTOR SHALL NOTIFY THE OWNER FOR VERIFICATION INFILTRATION TESTING. THE OWNER SHALL PROVIDE THE TESTING AND CONTRACTOR SHALL COORDINATE AS NECESSARY. IF TEST RESULTS ARE BELOW THE TARGET TESTED RATE (SEE BELOW), HALT CONSTRUCTION OF INFILTRATION FACILITY(S) AND CONTACT ENGINEER. THE TESTING AGENCY SHALL ALSO VERIFY GROUNDWATER ELEVATION AT EACH FACILITY DURING THE SAME PERIOD. THE GROUNDWATER MAY BE NO HIGHER THAN 5' BELOW FACILITY BOTTOM.

TARGET TESTED RATE = 50 INCHES/HOUR (INFILTRATION TRENCH)

UTILITY PLAN

PROJECT # JAPC-22
DATE 12/27/2023

REV #	DATE	DESCRIPTION



13115 NE 4th St. #240, Vancouver, WA 98684 | (360) 975-4995

C300
BID SET

REV #	DATE	DESCRIPTION

Applications
Orenco's Stormwater Catch Basin (SCB) is a cost-effective alternative to concrete or steel catch basins. It is ideal for jurisdictions that require filtration of stormwater before it is released onsite or to a stormwater collection system. It is also well-suited for use in rainwater collection systems. The SCB is designed to screen materials as small as 1/8-inch (3-mm) diameter out of stormwater.

General
Orenco's Stormwater Catch Basin (SCB) is based on Orenco's proven Screened Pump Vault technology and materials. Stormwater flows into the basin vault and is screened through the 1/8-inch (3-mm) filter mesh before flowing out through the basin outlet. The filter has a nominal open area of 50%.

Standard Models
SCB0824, SCB0836, SCB1224-L, SCB1236-L, SCB1236-6L

Product Code Diagram

Materials of Construction

Cap and base	Fiberglass
Cap screws	Stainless steel (SCB1236-L and -6L only)
Basin	PVC
Inlet and outlet	Schedule 40 PVC
Filter ring and base	Polyurethane
Filter screen	Polyethylene, 1/8-inch (3-mm) screen mesh

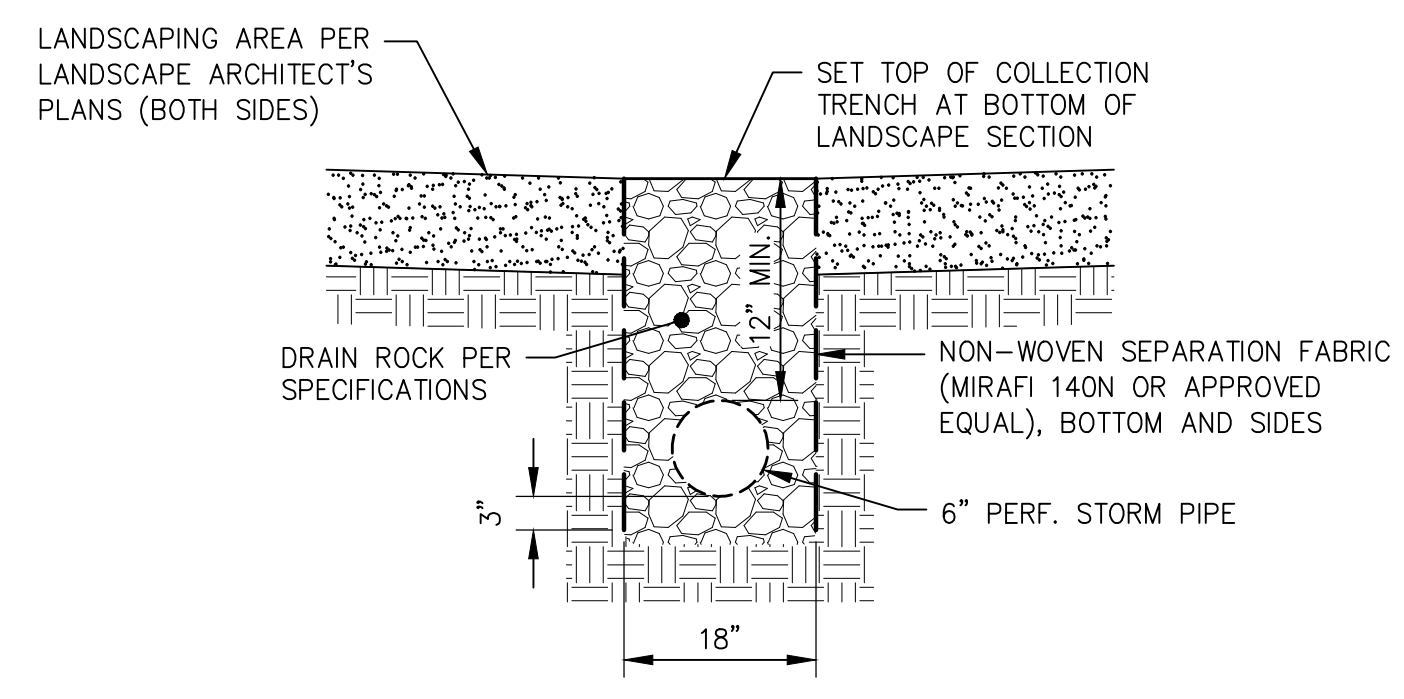
*Orenco's screened pump vault technology is protected under US Patent #4,439,323

SCB1236-6L Stormwater Catch Basin with level inlet/outlet

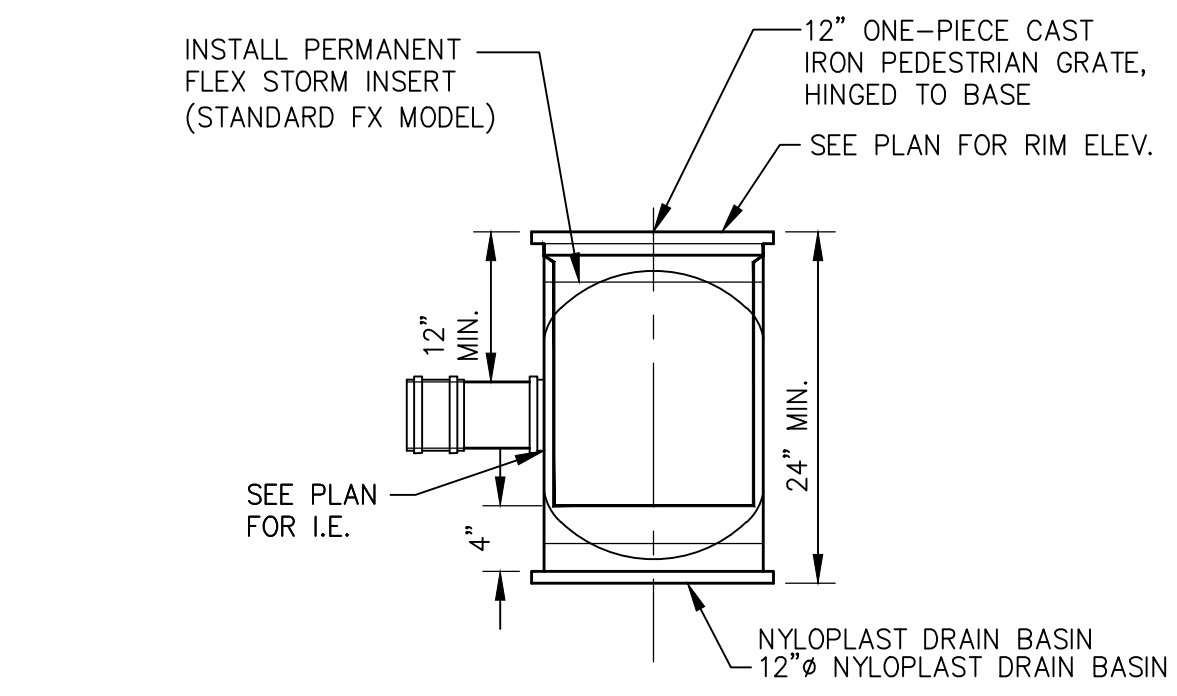
Orenco Systems® Inc., 814 Airway Ave., Sutherlin, OR 97479 USA • 800-348-9843 • 541-459-4449 • www.orenco.com

NTD-SCB-1 Rev. 2.8 © 2017 Page 1 of 2

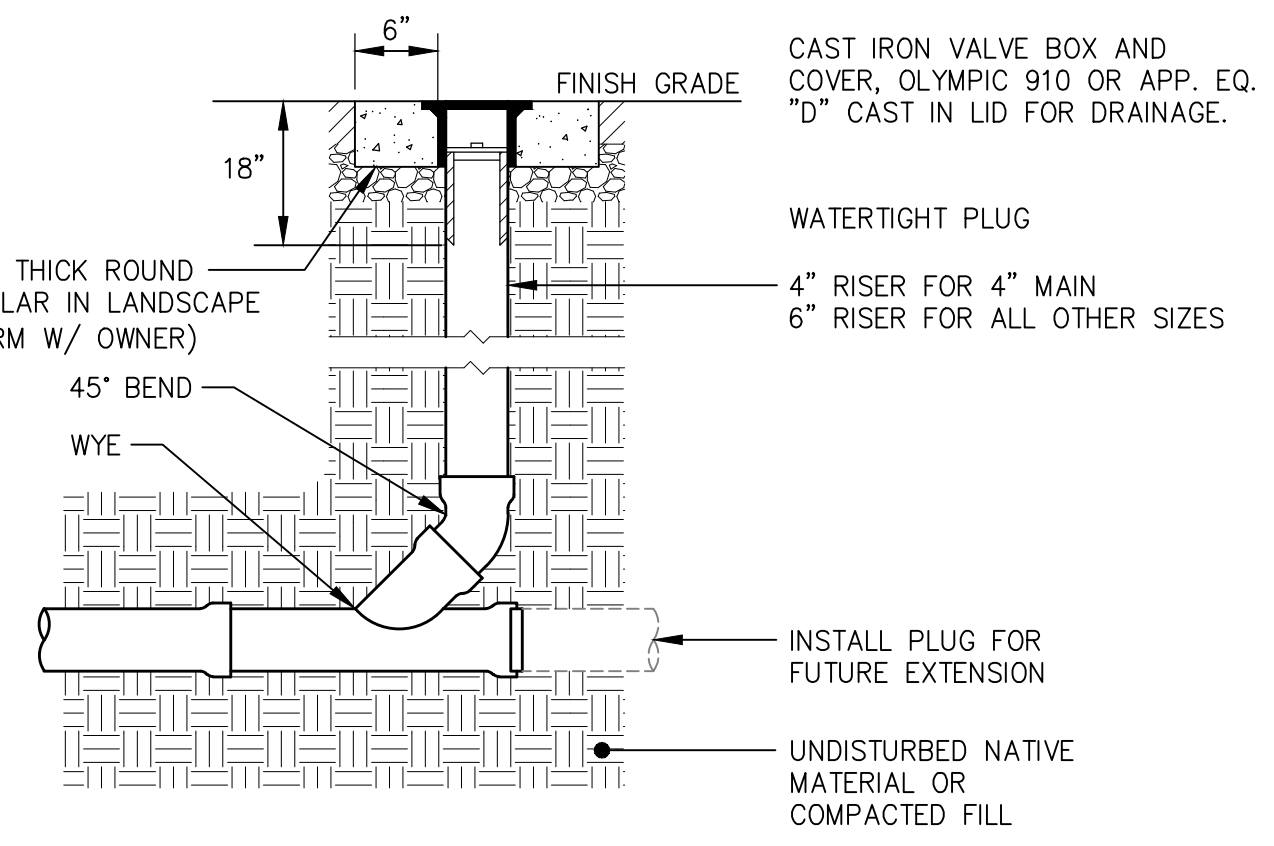
8 STORMWATER DEBRIS INTERCEPTOR
N.T.S.



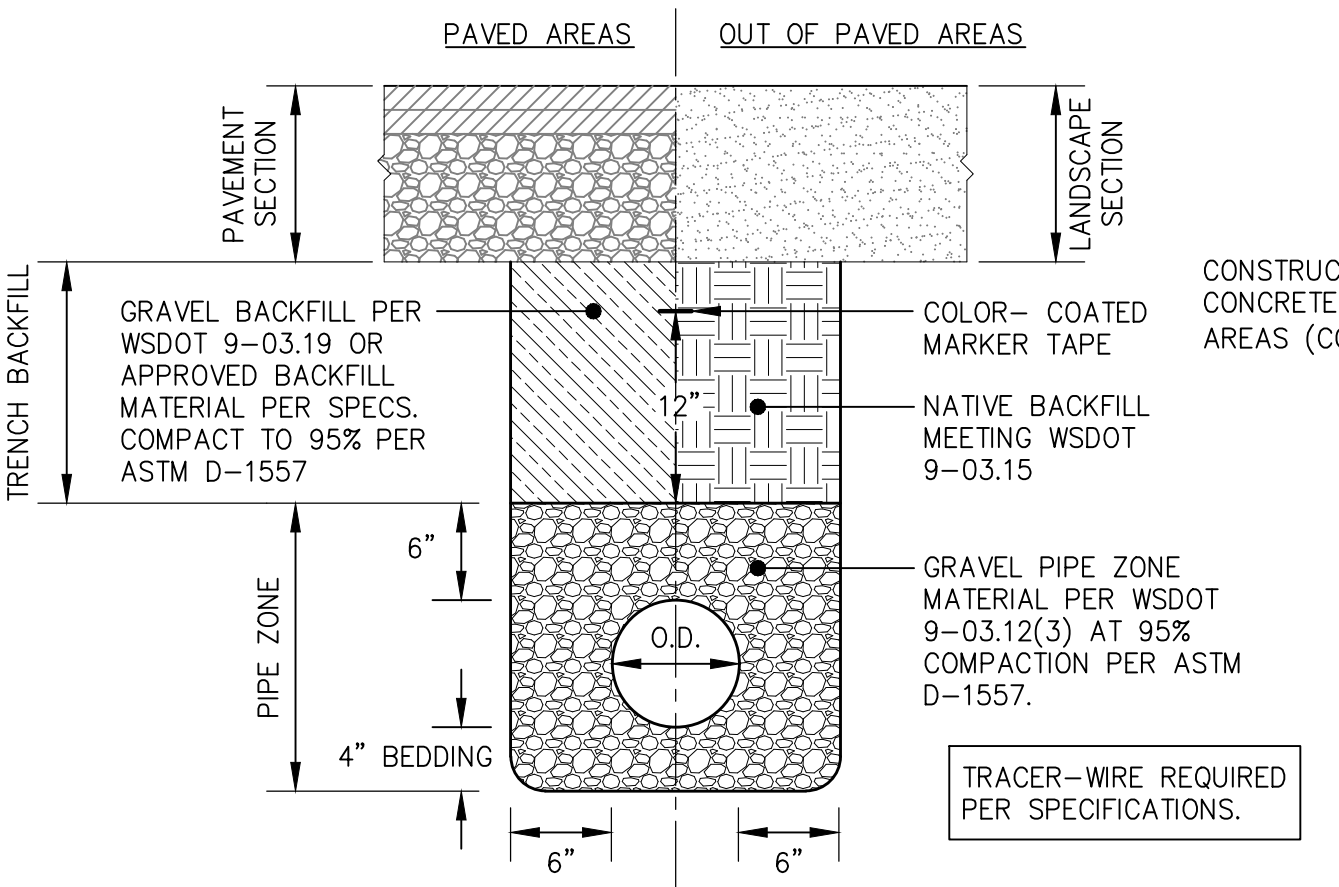
4 COLLECTION TRENCH
N.T.S.



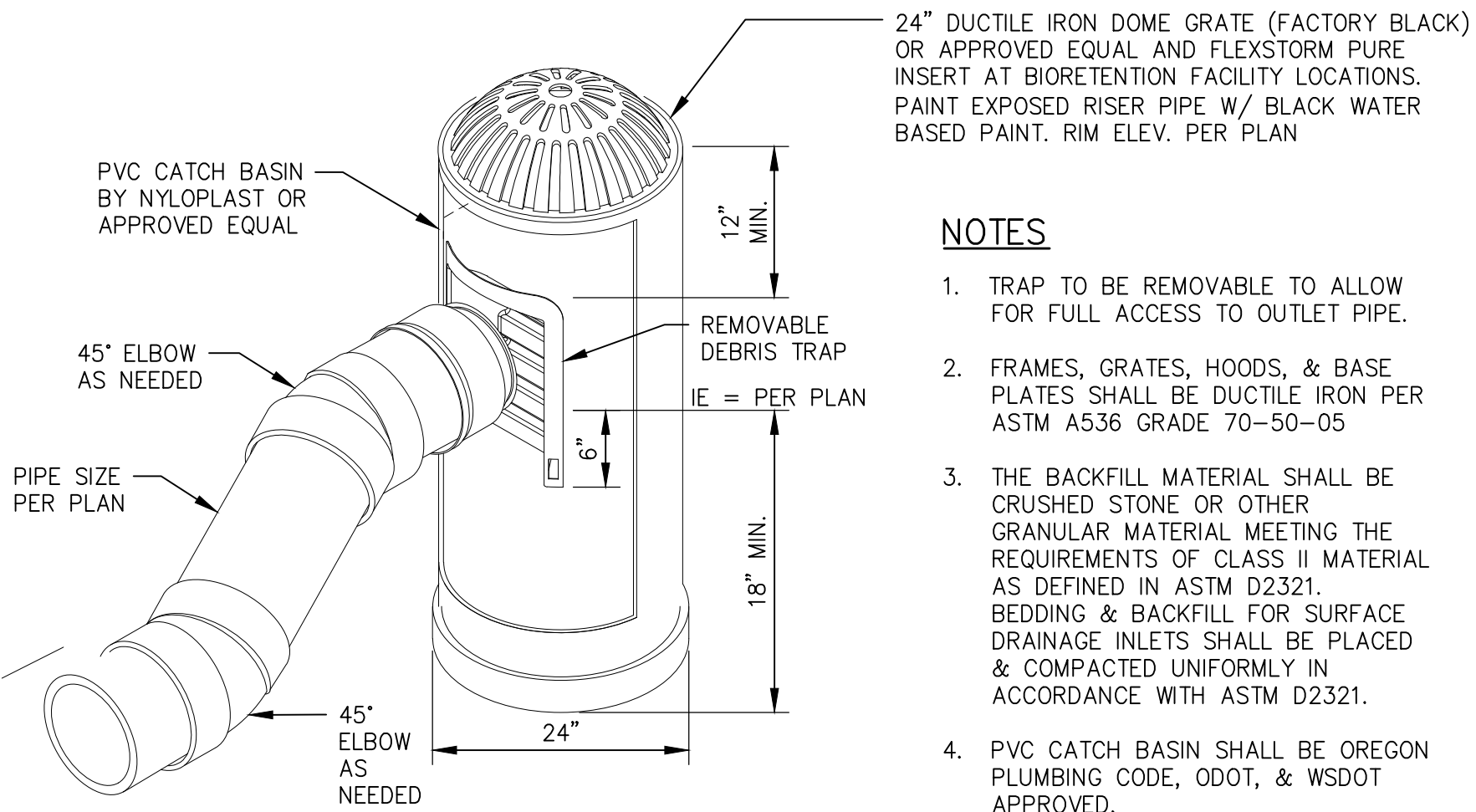
3 12" AREA DRAIN
N.T.S.



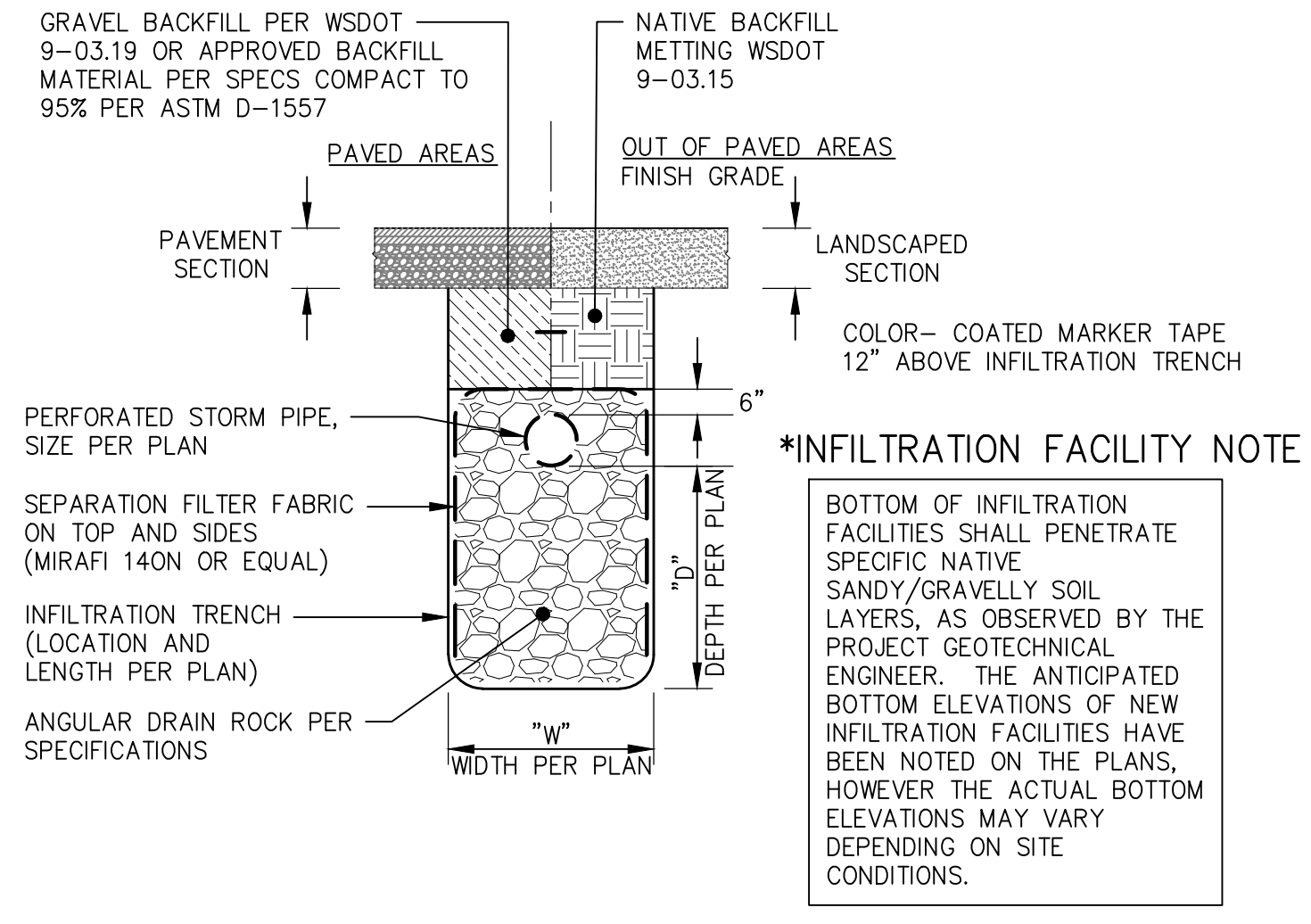
2 STANDARD CLEANOUT
N.T.S.



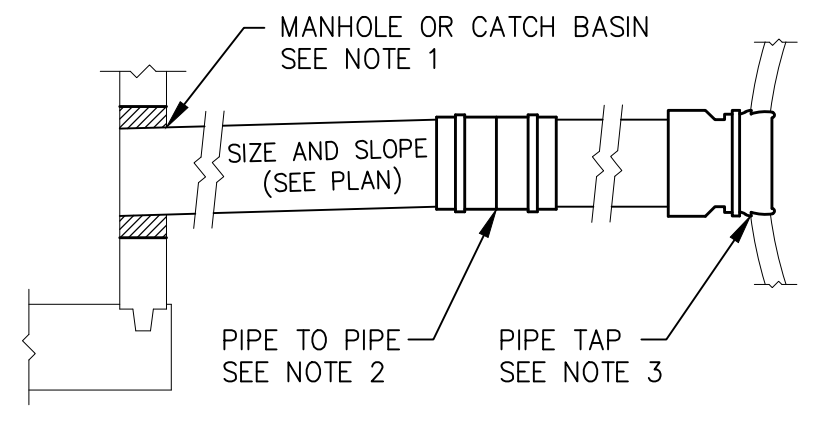
1 STORM PIPE BEDDING & BACKFILL
N.T.S.



7 STORMWATER CATCH BASIN
N.T.S.



6 INFILTRATION TRENCH SECTION
N.T.S.



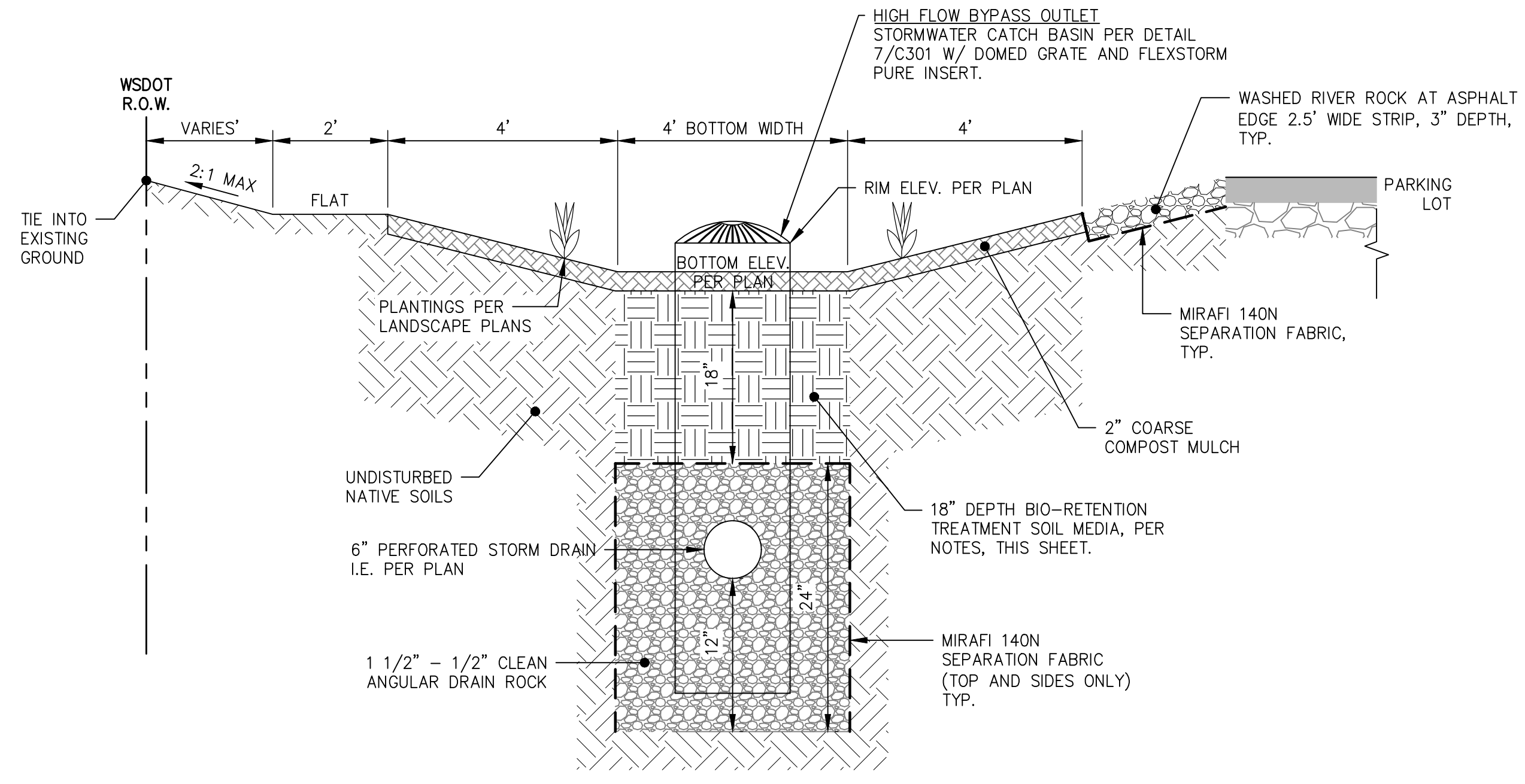
5 STORM DRAINAGE CONNECTIONS
N.T.S.

- NOTES**
- BREAK OUT STRUCTURE WALL 2"-4" CLEAR OF PIPE WALL. FILL WITH NON-SHRINK GROUT FLUSH TO INSIDE WALL.
 - USE "FERROCO" FLEXIBLE COUPLING WITH STAINLESS STEEL CLAMPS OR APPROVED EQUAL.
 - CUT HOLE INTO PIPE AND INSTALL APPROVED COMMERCIAL TAP:
 - SEALTITE TYPE "C" OR "D" SEWER SADDLE
 - FOWLER QUIK-WAY SEWER TAP
 - FOWLER "I & L" SEWER TEE
 - FOWLER "INSERTA TEE"
 - "TAP TITE" SEWER TEE
 - ROMAC CB SEWER SADDLE

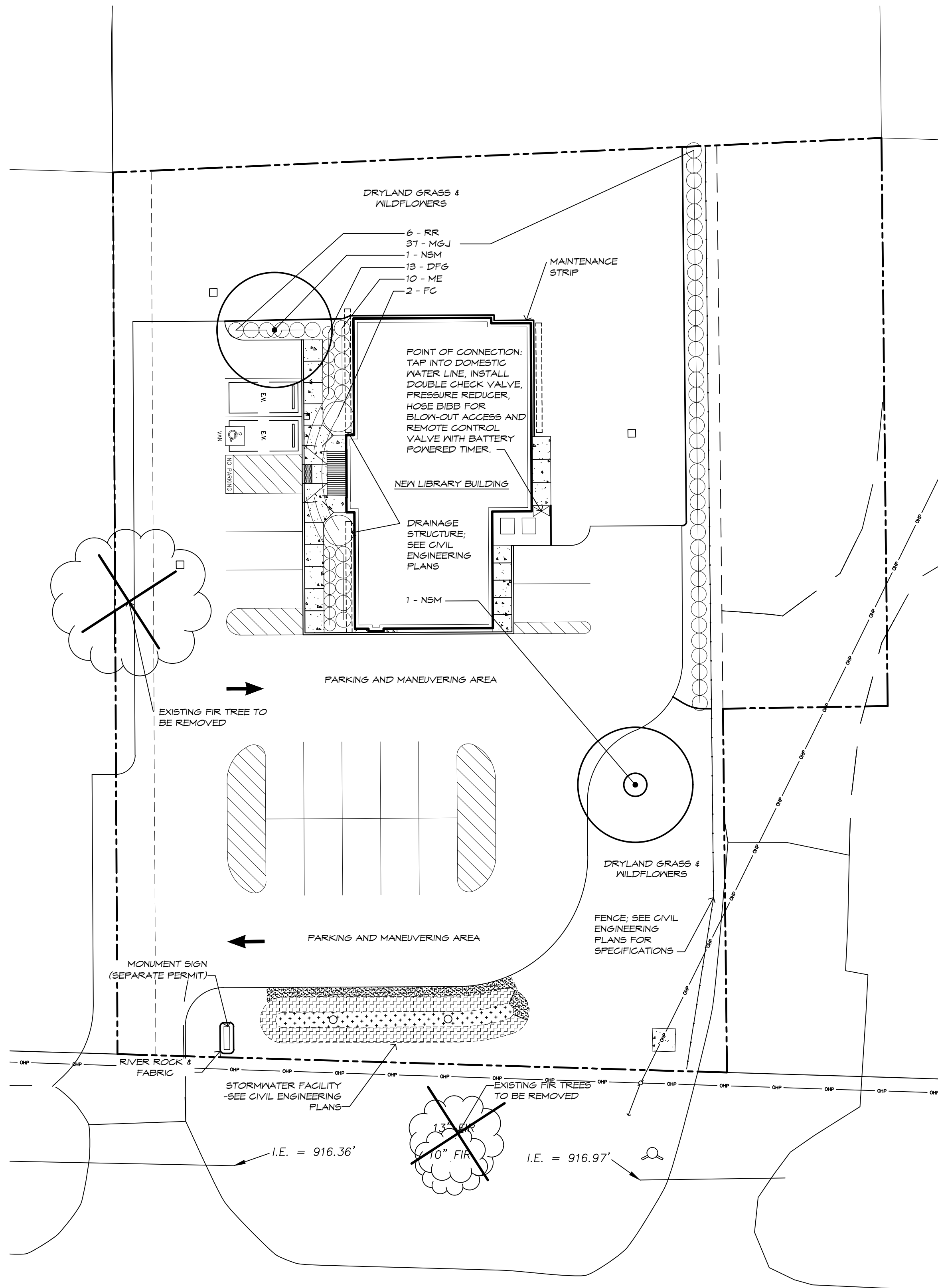
- BIORETENTION SOIL MEDIA (BSM)**
- BSM PER 2012 WESTERN WASHINGTON STORMWATER MANUAL VOL.5, BMP T7.30
 - 60% TO 65% MINERAL AGGREGATE AND 35% TO 40% COMPOST (SEE SPECIFICATIONS BELOW).
 - MINERAL AGGREGATE GRADATION PER ASTM D 422:

SIEVE SIZE	PERCENT PASSING
3/8-INCH	100
US NO. 4	95-100
US NO. 10	75-90
US NO. 40	25-40
US NO. 100	4-10
US NO. 200	2-5 (2-4 RECOMMENDED)
 - $C_u \geq 4$, $1 < C_c < 3$
 - THE SOIL MIXTURE SHOULD BE UNIFORM, FREE OF STONES, STUMPS, ROOTS OR OTHER SIMILAR OBJECTS LARGER THAN 1 INCH.
 - ON-SITE SOIL MIXING OR PLACEMENT NOT ALLOWED IF SOIL IS SATURATED OR SUBJECT TO WATER WITHIN 48 HOURS.
 - COVER AND STORE SOIL ACCORDINGLY TO PREVENT WETTING OR SATURATION.
 - TEST SOIL FOR FERTILITY AND MICRONUTRIENTS AND, IF NECESSARY, AMEND MIXTURE TO CREATE OPTIMUM CONDITIONS FOR PLANT ESTABLISHMENT AND EARLY GROWTH AT RATES RECOMMEND BY AN INDEPENDENT LABORATORY SOIL TEST.
 - PLACE SOIL IN LIFTS NOT EXCEEDING 6 INCHES.
 - THE FINAL SOIL MIXTURE SHOULD HAVE AN ORGANIC MATTER CONTENT OF 5-8 PERCENT BY DRY WEIGHT.
 - CEC ≥ 5 meq/100g DRY SOIL (TESTING NOT REQUIRED).
 - pH BETWEEN 5.5 AND 7.0 (TESTING NOT REQUIRED).
- COMPOST**
- "FINE COMPOST" PER TMECC TEST METHOD 02.02-B.
 - MATERIAL MUST BE IN COMPLIANCE WITH WAC CHAPTER 173-350 SECTION 220 AND ORIGINATE FROM TYPE I FEEDSTOCK AND UP TO 35% TYPE III FEEDSTOCK.
 - COMPOST MUST BE FROM DOE PERMITTED FACILITY.
 - MOISTURE CONTENT: NO VISIBLE FREE WATER OR DUST PRODUCED WHEN HANDLING MATERIAL.
 - pH BETWEEN 6.0 AND 8.5.
 - CARBON NITROGEN RATIO (TMECC 05.02A) TO BE LESS THAN 25:1 OR LESS THAN 35:1 FOR NATIVE LOWLAND PLANTS.
 - MINIMUM ORGANIC MATTER CONTENT OF 40% (TMECC 05.07-A).
 - MANUFACTURED INERT CONTENT LESS THAN 1% AND SOLUBLE SALT LESS THAN 4.0 mmhos/cm
 - MATURITY (TMECC 05.05-A) TO BE GREATER THAN 80%.
 - STABILITY (TMECC 05.08-B) OF 7mg CO₂-C/g OM/DAY OR BELOW.

- INSTALLATION**
- MINIMIZE COMPACTION OF THE BASE AND SIDEWALLS OF THE BIORETENTION AREA. EXCAVATION SHOULD NOT BE ALLOWED DURING WET OR SATURATED CONDITIONS. EXCAVATION SHOULD BE PERFORMED BY MACHINERY OPERATING ADJACENT TO THE BIORETENTION FACILITY AND NO HEAVY EQUIPMENT WITH NARROW TRACKS, NARROW TIRES OR LARGE LUGGED, HIGH PRESSURE TIRES SHOULD BE ALLOWED ON THE BOTTOM OF THE BIORETENTION FACILITY.
 - ON-SITE SOIL MIXING OR PLACEMENT SHOULD NOT BE PERFORMED IF SOIL IS SATURATED. THE BIORETENTION SOIL MIXTURE SHOULD BE PLACED AND GRADED BY EXCAVATORS AND/OR BACKHOES OPERATING ADJACENT TO THE BIORETENTION FACILITY.



9 BIORETENTION FACILITY
N.T.S.



HWY. 12

PLANT LEGEND

TREES				
SYM	QTY	BOTANICAL NAME	COMMON NAME	SIZE
NSM	2	ACER TURCIGATUM X PLATANOIDES 'KIETHSFORM'	NORWEGIAN SUNSET MAPLE	1-1/2' GAL

SHRUBS				
SYM	QTY	BOTANICAL NAME	COMMON NAME	SIZE
DFG	13	FENISELUM ALPEGUROIDES 'HAMEL'	DWARF FOUNTAIN GRASS	1 GAL
FC	2	CHAMAECYPARIS OBTUSA 'LILIGOIDES COMPACTA'	FERNSPRAY HINOKI CYPRESS	2-3'
ME	10	EUONYMUS KIATSCHOVICUS 'MANHATTAN'	MANHATTAN EUONYMUS	2 GAL
MGJ	37	JUNIPERUS SCOPULORUM 'MOONGLOW'	MOONGLOW JUNIPER	4"
RR	6	ROSA 'RADTIG'	RED KNOCKOUT ROSE	2 GAL

BIORETENTION SLOPE PLANTINGS:				
CORNUS SERICEA 'KELSEYII'	KELSEY DOGWOOD	1 GAL	3" O.C.	33%
SPIREA JAPONICA 'LITTLE PRINCESS'	LITTLE PRINCESS SPIREA	1 GAL	3" O.C.	33%
ARGENTOPHYLLUS 'LVA-URS'	KINKINNICK	1 GAL	3" O.C.	34%

BIORETENTION BOTTOM PLANTINGS:				
CAREX OBRUPTA	SLOUGH RUSH	4" POT	18" O.C.	33%
JUNCUS PATENS	SPREADING RUSH	4" POT	18" O.C.	33%
DESCHAMPSIA CESPITOSA	TUFTED HAIR GRASS	4" POT	18" O.C.	34%

EROSION CONTROL MIX: LOW GROW GRASSES AND/OR CLOVER. MATURE UN-CUT HEIGHT TO BE LESS THAN 12" MAXIMUM.

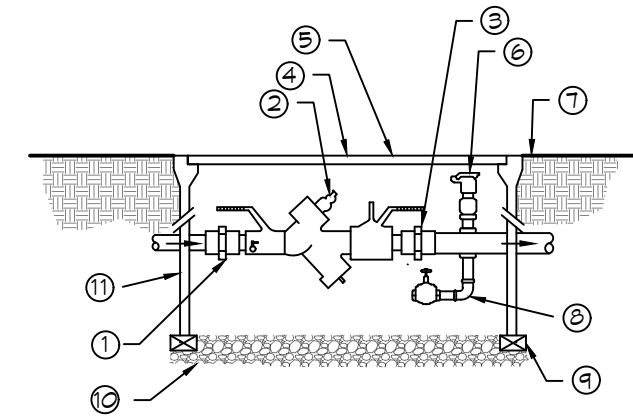
* NOTE: Prior to the hydroseed application of the erosion control grass mix, hand seed in large drifts, at a rate of .5 LB per 1000 SF, Rocky Mountain Wildflower Mix by Rainier Seed OR APPROVED EQUIVALENT.

ROCKY MOUNTAIN WILDFLOWER MIX INCLUDES:

- BLUE FLAX
- SIBERIAN WALLFLOWER
- SCARLET FLAX
- EVENING PRIMROSE
- ORANGE CALIFORNIA POPPY
- BRIGHT LIGHTS SULPHUR COSMOS
- LANCE LEAF COREOPSIS
- BLACK EYED SUSAN
- BLANKET FLOWER
- PRAIRIE CONEFLOWER
- PERENNIAL LUPINE
- ROCKET LARKSPUR
- GLOBE GILIA
- ICELAND POPPY
- CORN POPPY MIX
- FLAINS COREOPSIS
- FORGET ME NOT
- CATCHFLY
- ROCKY MTN. PENSTEMON

NOTES

- All boundaries, easements, utilities and legal encumbrances to be confirmed with owner prior to beginning work. Property lines and survey information provided by JWI ARCHITECTS.
- The landscape designer assumes no responsibility for the location of boundaries and utilities.
- This plan shall be considered preliminary until approved by all governing agencies.
- Plant quantities are for informational purposes only. In case of discrepancy, the plan shall prevail.
- Installation shall fully comply with all landscape code requirements and any Lewis County conditions of approval.
- Plant material shall be watered using a battery powered underground drip system.
- Point of connection to be off of domestic water line.
- All landscaping shall be installed in a sound workman-like manner, and according to accepted good planting procedures with quality plant materials.
- The owner, or his agent, shall be responsible for the maintenance of all landscaping which shall be maintained in good condition so as to present a healthy, neat, and orderly appearance, and shall be kept free from refuse and debris.
- Existing vegetation to be sprayed with roundup or approved equal, per manufacturers instructions. Sufficient time shall be given to allow existing material to die prior to removal. Blackberries to be sprayed with crossbow or equivalent to ensure they won't grow back after removal. All existing vegetation shall be removed from areas to receive construction activities.
- Contractor shall verify species and quantities of all plant material prior to bid.
- Prior to installation of topsoil in tree and shrub planting areas as indicated on the Landscape Plan, cross-rip at 18 inches on center or rototill to subgrade to an 8-inch to 12-inch depth.
- Commercial grade black poly edging or wood composite edging to be installed between all planting beds, tree wells, bioretention areas and adjacent dryland grass/wildflower areas.
- All disturbed areas, outside of designated shrub and tree planting areas to receive wildflowers and erosion control grass mix (short dryland grass and/or clover) seed via either hand seeding or hydro seed. If hand seeding, seed must be followed up with organic seed mulch.
- Any wildflower and dryland grass seeding installation to take place from September 15th - October 15th or March 15th - April 30th provided weather is favorable.
- All disturbed areas, outside designated shrub and tree planting areas to be scarified to a depth of 6" inches in preparation for wildflower and short dryland grass seeding. If ground is compacted, cross-rip at 18" on center or rototill to a 6-inch depth.
- Install minimum 12-inch depth on-site and/or imported topsoil in all tree and shrub planting areas. Amend planting area topsoil with 2-inch minimum layer composted yard debris prior to installation of plant material. Imported planting area topsoil shall be a sandy loam topsoil with a combined silt and clay content less than 20% and medium to very fine sand 60%-70% which shall be percentages by weight of those particles passing a 2mm screen. The remaining percentages shall be particles larger than medium to very fine sand (coarse or very coarse sand or gravel sized particles). All particles shall pass a 1/2-inch screen. All topsoil shall be free from subsoil, debris, turf, mushrooms, weeds or any other objectionable material. If subgrade is comprised of rock, rock fill or cement treated soil, remove subsoil from site and deposit topsoil to the following depths: 24-inch minimum depth in all planting areas, 36-inch minimum depth at all tree locations in a 5 foot diameter. Allow no cross contamination of cement treated soil with placed topsoil.
- On-site topsoil shall be defined as being a friable loam surface soil found at a depth, in its natural state, of less than 18 inches. Topsoil shall be free from subsoil, clay lumps larger than 2 inches, debris, turf, weeds, roots, contaminants or other objectionable material. Topsoil on-site meeting these specifications may be used in landscape areas as indicated on the Landscape Plan. Coordinate stockpiling of existing on-site topsoil stripings for reuse in landscape areas with Project Representative.
- Install landscape fabric and mix of 1"-3" washed river rock in all planting beds, tree wells and the maintenance strip along building foundation, within 2 days of planting.
- Tree locations may be adjusted in the field to suit site requirements. Match plan as closely as possible.
- Finish grade shall be set to allow for positive drainage away from all buildings.
- Prune/shape, remove dead wood, dangerous, branches, etc. of existing trees to remain. Clean up perimeter of existing trees to remain to ten (10) feet inside perimeter. Remove debris, weeds, undesirable brush, etc.

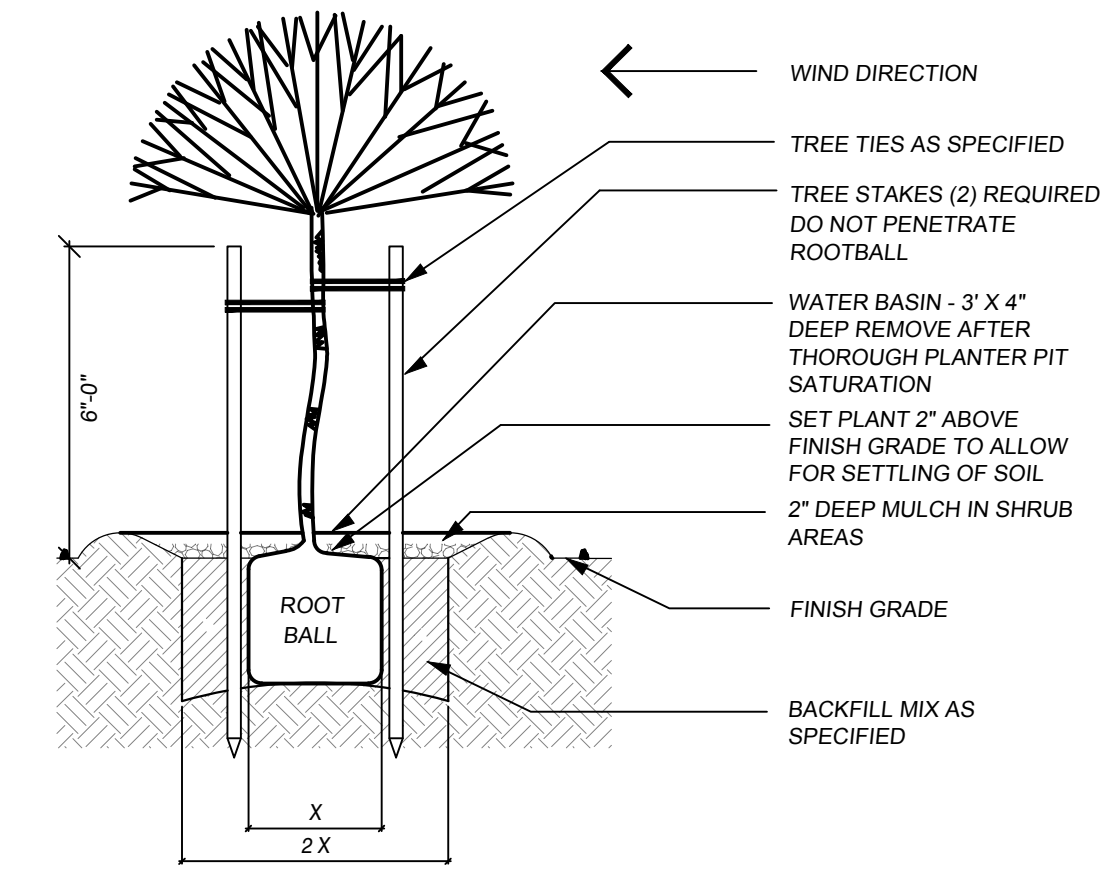


NOTES:

- GLOBE VALVE SHALL BE PERPENDICULAR TO MAINLINE.
- GALVANIZED PARTS SHALL BE USED FOR ALL FITTINGS.
- BACKFLOW UNITS 2-1/2" OR LESS SHALL USE UNION CONNECTIONS.
- AT THE OWNER'S REQUEST, THE POINT-OF-CONNECTIONS MAY BE INSTALLED WITHIN THE BUILDING.

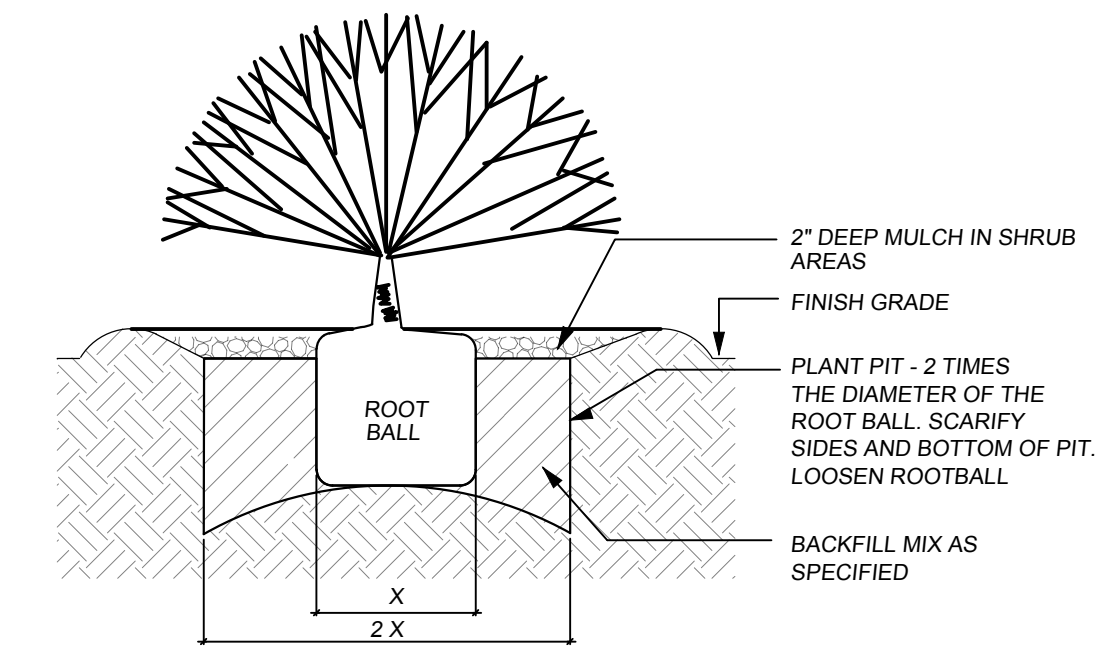
1 BACKFLOW PREVENTION DEVICE

SCALE: NTS



2 DECIDUOUS TREE PLANTING

SCALE: NTS



3 SHRUB/GROUND COVER PLANTING

SCALE: NTS

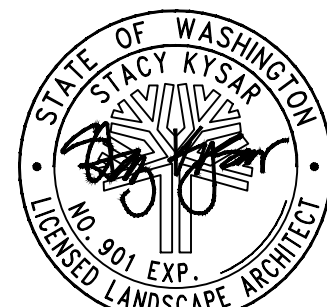
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LANDSCAPE PLAN

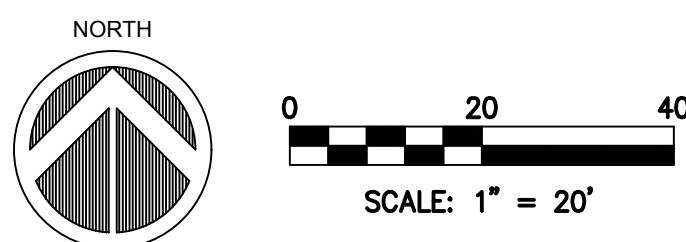
PROJECT # JAPC-22

DATE 12/20/2023

REV #	DATE	DESCRIPTION



LS1.0



IRRIGATION

PART 1 - GENERAL CONDITIONS

- 1.1 SCOPE:
- A. The intent of this specification is to define contractor/owner responsibilities and specify minimum standards for materials and workmanship.
 - B. Furnish design services and plans, labor, material, equipment and services for installation of a new irrigation system all in accordance with requirements of this and other specifications, local and state codes and equipment manufacturer's recommendations and specifications.
 - C. All local, municipal, and state laws, rules, and regulations governing or relating to any portion of this work are hereby incorporated into and made a part of these specifications.
 - D. Work noted "N.G.", existing, or to be supplied and/or installed by others is not part of this section.
- 1.2 STANDARDS:
- A. The contractor shall obtain and pay for all permits and inspections required by outside agencies.
 - B. All materials shall meet minimum industry standards.
 - C. The system shall be installed as per manufacturer's recommendations by qualified, trained personnel.
- 1.3 QUALITY ASSURANCE:
- A. Acceptable manufacturer: Hunter, Rainbird.
 - B. Contractor shall be licensed and bonded in State of Washington.
 - C. Contractor shall have at least 5 years prior experience in projects of equal or larger size.
 - D. Contractor shall employ, on-site as all times, at least one person who is thoroughly experienced and competent in all phases of the work of this section and who shall be present at all times during execution of this portion of the work and who shall be thoroughly familiar with the type of materials being installed and the manufacturer's recommended methods of installation, and who shall direct all work performed under this section.
 - E. Conform to "Uniform Plumbing Code" as adopted and modified by the State of Washington and all legally constituted authorities having jurisdiction.
 - F. Materials and Equipment: New materials and equipment of type and brands as specified herein or accepted substitute.
- 1.4 DESIGN AND PLAN:
- A. Irrigation layout/design shall meet the following parameters:
1. Irrigation point of connection to be at domestic service.
 2. Install approved backflow protection to the public water sources. If acceptable, use a double check backflow prevention device with hose bibb after double check to be used for winterization.
 3. Pressure reducing valve to be installed to accommodate low flow drip irrigation.
 4. All plants to be watered using one zone of drip irrigation. Lateral line to be 3/4" poly with barbed emitter and 1/2" spaghetti tubing to plant root ball with stake or staple. Trees to receive (1) 5gph emitter each, shrubs to receive (1) 2gph emitter each, perennials and ornamental grasses to receive (1) 1gph emitter each.
 5. Valve to be battery operated remote control valve with battery operated timer.
 - B. Plan Requirements:
 1. Provide at same scale as landscape plan.
 2. Prepare on good quality paper.
 3. Irrigation plan to be reproducible.
 4. Irrigation plan shall indicate system irrigation location and size of zone, piping size and layout, fittings, equipment necessary for full installation.
- 1.5 VERIFICATION OF DIMENSIONS:
- A. Before proceeding with the installation of any section of the irrigation system, check and verify correlation between ground measurements and Drawings.
- 1.6 PROTECTION OF UNFINISHED WORK:
- A. Protect work at all times.
 - B. Keep rock, dirt, gravel, debris and foreign materials from entering piping, valves and other irrigation equipment.
 - C. Flag/barricade open trenches, valve locations/boxes, etc. when not actively working in area.
- 1.7 UTILITIES:
- A. Protect active utilities. If encountered, notify persons owning same.
- 1.10 STORAGE:
- A. Store on job site only as approved.
 - B. Be responsible for security and protection.
 - C. Store no P.V.C pipe or fittings in direct sunlight.
- 1.11 EQUIPMENT FOR OPERATION:
- A. Provide Owner with the following operation equipment where applicable.
 - B. Turn over to Owner at time of Final Inspection.
 - 1. (2) snap-lock unlocking tools for valve box covers.
- 1.12 RECORD DRAWINGS:
- A. Maintain current with work progress, one red pencil marked print showing all deviations from drawings occurring during installation.
 - B. Show locations of stubouts, valves, pipe lines, splices and other subsurface features as installed.
 - C. Show dimension references from subsurface features to permanent structural or surface elements sufficient to identify in the field.
 - D. Submit clean red-lined reproducible plan at end of project.
- 1.13 SUBMITTALS:
- A. Within 14 days after award of contract, submit:
 1. Irrigation design plan for new irrigation system, (8) prints.
 2. Manufacturer's printed product information and catalog cut sheets for all system components.
 - B. Submit to Project Representative at time of inspection for final approval.
 1. As-Built Irrigation reproducible plan.
 2. Copy of guarantees, warranties or affidavits applicable to equipment or materials beyond Contractor's 1-year guarantee period.
 3. Manufacturer's catalog cuts describing all equipment and materials used.
 4. Names, addresses and phone numbers of manufacturers and local suppliers of equipment.
 5. Written operating and maintenance instructions for all electrical or mechanical equipment used.
 - C. Submit to Project Representative three (3) complete copies of the above submittals in hard cover binder.
- 1.14 GUARANTEE:
- A. Guarantee the irrigation system or any part thereof, against defective material or workmanship for one (1) year from the date of final acceptance.
 - B. Repair any settling of backfilled trenches occurring during a one (1) year period after final acceptance.
 - C. Include restoration of planting, paving or other improvements of any kind associated with corrections.
 - D. Make corrections without expense to Owner.

PART 2 - PRODUCTS

- 2.01 GENERAL:
- A. New materials and equipment.
 - B. Substitutions or equals only by written approval of the Project Representative.

- 3.10 FINAL TESTING:
- A. Test entire system for one (1) hour at normal operating pressure.
 - B. Test is acceptable if, after one (1) hour of pressure testing, at normal operating pressure, operating pressure has decreased one (1) percent or less.
 - C. If test fails, immediately trace leaks and correct.
 - D. Replace soils liquified by system failures with stable materials.
 - E. Repeat system test as indicated above until testing meets requirements.

LANDSCAPING

- PART 1 - GENERAL**
- 1.1 SCOPE OF WORK: Placement of topsoil; soil preparation; establishment of fine finish grading; supply and installation of irrigation; installation of landscape construction details; supply, installation and maintenance of trees, shrubs, groundcovers, and lawn areas; tree staking, mulching of planting bed areas; submittal of all submittal material and contract period maintenance.
- 1.2 USE OF HERBICIDES: Applications of herbicides only by applicator licensed under Washington herbicide laws.
- 1.3 PLANT MATERIAL: Provide in accordance with species, sizes, and quantities indicated on the Drawings.
- 1.4 GUARANTEE AND REPLACEMENT:
- A. Guarantee plant materials and related workmanship of installation, beginning after written final acceptance or work, for one year or one full growing season, whichever is longer.
 1. Replace plant material not surviving or in poor condition during guarantee period. Any material that is 25% dead or more shall be replaced at no charge. A tree shall be considered dead when the main leader has died back or 25% of the crown is dead.
 2. Correct deficiencies in soil or drainage conditions when attributable to plant losses, prior to replacement.
 3. Perform all replacement work in accordance with original specifications at no additional costs to Owner.
 4. Damage or loss of plant materials due to vandalism, wildlife, freezing, theft or acts of neglect by others, is exempt from Contractor's replacement responsibility.
 - B. Perform replacement work when requested by Owner within fourteen (14) days after notification.
 1. Plant replacements subject to seasonal limitations may be performed at a later date when, in the judgement of the Landscape Architect, survival of replacements is jeopardized by weather or other conditions.
 2. Advise Owner or Project Representative in writing when replacement work is performed. Include specific instructions for immediate care of same.
- 1.5 SOIL TESTING:
- A. Submit one sample of on-site soil along with a request for their Full Test to: Simply Soil Testing 20312 Lafayette Road Burlington, WA 98233 (360) 202-1086 or service@simplysoiltesting.com prior to installation of plant material.
 - B. Topsoil testing to be at Contractor's expense.
 - C. Follow recommendations of soil test report.

PART 2 - PRODUCTS

- 2.1 FERTILIZERS:
- A. Guarantee analysis of mineral or formulated Products as specified.
 1. Comply with applicable state fertilizer laws.
 2. Uniform composition, dry and Free-Floating.
 - B. Brands and Analyses: Fertilizers and amendments listed below are for bidding purposes only. Actual Fertilizers and amendments may vary based upon the results of the soils test.
 1. Calcium Carbonate Limestone (agricultural limestone)
 2. Dolomite Limestone
 3. Calcium Sulfate (gypsum)
 4. Bloodmeal
 5. Organic 10N-10P-5K
 6. Laundry Borax (10% Borax)
- 2.2 SOIL AMENDMENTS:
- A. Compost: Composted yard debris, medium grind, or acceptable substitute. Color dark brown to black.
- 2.3 PLANTING BED COVER MATERIAL:
- A. Commercial grade landscape fabric and washed 1"-3" mixed river rock to be placed in all planting beds and tree wells.
- 2.4 WOOD TREE STAKES:
- A. Sound wood, 2" x 2", Douglas Fir or Lodgepole Pine, 8-foot lengths.
 - B. Installed as shown on Tree Planting Detail.
 - C. Tree ties:
 1. "Chain Lock" system or accepted substitute.
 2. Install as shown on Tree Planting Detail.
- 2.5 TREES, SHRUBS AND GROUNDCOVERS:
- A. General, species, variety, quantity and size.
 1. As indicated on the plans.
 2. Nomenclature - conform to names given in Standardized Plant Names, 1942 edition or that accepted in localized nursery trade.
 3. Meet requirements of American Standard for Nursery Stock, 1978 edition A.N.S.I. Z60.1
- 2.6 EDGING:
- A. Commercial grade black poly edging to be installed between all planting beds and lawn/grinland areas. Metal stakes to be used to tie edging down.
- 2.7 DRYLAND SEED
- A. See drawings.
- 2.8 TOPSOIL (Refer to Civil Engineering Plans for soil requirements for bio-retention facilities):
- A. On-site topsoil is defined as material being a friable loam surface soil found at a depth, in its natural state, of less than 18 inches. Topsoil shall be free from subsoil, clay lumps larger than 2 inches, debris, turf, weeds, roots, contaminants, or other objectionable material.
 - B. Imported topsoil shall be a sandy loam topsoil with a combined silt and clay content less than 20% and medium to very fine sand 60%-10% which shall be percentages by weight of those particles passing a 2mm screen. The remaining percentages shall be particles larger than medium to very fine sand (coarse or very coarse sand or gravel sized particles). All particles shall pass a 1/2" screen.
- 2.9 WATER:
- A. See landscape or civil engineering drawings for points of connection.

PART 3 - EXECUTION

- 3.1 GENERAL:
- A. Scheduling and Coordination: Coordinate work schedule with Owner's Project Representative where cooperation with other trades or contracts is required. Be responsible for timely performance of work. Coordinate topsoil placement responsibility with General Contractor.
- 3.2 WEED ERADICATION AND CONTROL:
- A. Remove grass, noxious weed growth and roots by herbicide application (Johnson grass, Crabgrass, Morning Glory, Horsetail, Canadian Thistle, Nutgrass, Quackgrass, etc.).
 - B. Kill achieved by working soil permissible for annual types only.
 - C. Allow time for herbicides to achieve effective kill prior to cultivating.
- 3.3 SOIL PREPARATION/TOPSOIL DEPTH:
- A. General: Remove large (1" and larger) stones, concrete, asphalt, or debris encountered or generated by this work from job site. Crossrip 8" on center or rototill subgrade to 8"-12" depth prior to placement of topsoil.
 - B. Deposit topsoil to a minimum 4" depth in planting areas (except bio-retention facilities. Refer to Civil Engineering plans for soil type and depth), 4" in lawn areas. If subgrade is comprised of rock, rock fill or cement treated soil, excavate rock or cement treated soil, remove from site and deposit topsoil to the following depths: 2" minimum depth in all planting areas; minimum 26" depth at tree locations (5' diameter). Allow no cross contamination of cement treated soil with placed topsoil.
 - C. Install underground irrigation lines prior to placement and incorporation of Fertilizers and soil amendments.
 - D. If it cannot be determined by the bid date whether there is sufficient acceptable topsoil on site for landscape use, contractor to include an additional alternate for a cost per yard for imported and placed top soil.
 - E. Initial Soil Preparation - Apply soils testing laboratory recommended fertilizers and soil amendments to all landscape areas at rate specified prior to installation of plant material and/or seedings/sodding of lawn areas. Fertilizers and soil amendments and rates shall be per specified soil test report. Rototill recommended materials, evenly mixed, to a 6-8 inch depth.
- 3.4 PLANTING TREES, SHRUBS, AND GROUNDCOVERS:
- A. Install plant material in the following order: trees, shrubs/ornamental grasses, groundcover.
 - B. Test tree, shrub and groundcover planting holes for adequate drainage. Fill hole with water. If water does not drain away in 1 hour, do not plant and notify Project Representative immediately.
 - C. All planting holes shall be excavated twice the diameter of the tree, shrub or groundcover root ball or root system.
 - D. Plant upright and face to give best appearance or relationship to plants, structures, fences, walls, etc.
 - E. Loosen and remove twine binding and burlap from around top 1/2 of each rootball. Pull no burlap from under balls.
 - F. Cut off cleanly all broken or frayed roots.
 - G. When hole is nearly filled, completely soak with water and allow water to soak away.
 - H. Fill holes to finish grade and prepare for other work indicated.
 - I. Provide 2" water ring at base of each tree. Remove at end of contract period maintenance.
- 3.5 FINISH GRADES:
- A. Establish slopes in accordance with Civil Engineering plan.
 1. Fine grade to uniform slopes, free of low spots or irregularities. Allow no ponding of water.
 2. Slope grades away from all structures.
 3. Slope grades to all area drains and catch basins as per Civil Engineering plan. Allow no ponding of water.
 4. Verify with Civil Engineer that finish grades meet Civil Engineering plan prior to planting.
 - B. Grade planting bed soil 3" below bordering pavement or curb elevations prior to application of mulch.
 - C. Grade seeded areas 1" below bordering pavement or curb elevations prior to seeding.
- 3.6 PLANTING BED COVER:
- A. Apply evenly to all visible areas, within two (2) days after planting.
- 3.7 INSTALLATION OF HYDROSEEDING:
- A. Seeded Preparation:
 1. Immediately prior to seeding, bring areas to an even, smooth machine grade, removing all hard or soft areas and removing irregularities that impede surface drainage or cause puddling.
 - B. Hydroseed Method:
 1. Sow seed at a rate of 4 lbs. per 1,000 sq. ft.
 2. Apply seed, mulch, tackifier and fertilizer in a one-step application at industry standard rates.
- 3.10 CONTRACT PERIOD MAINTENANCE:
- A. Begin immediately after planting of any type and continue for ninety (90) days after final written acceptance by Owner or Owner's Representative. Contractor to verify phasing.
 - B. Plantings:
 1. Irrigate as required to establish plant materials.
 2. Reset plants to proper grade or alignment.
 3. Maintain bed areas weed-free.
 4. Miscellaneous pruning as required.
 5. Any action necessary to promote new plant establishment.
 6. Immediate replacement of transplant losses.
 7. Adjustment of tree staking and ties.
 8. Dead-head spent flowers.
 9. Bed lines smooth, lines straight, curves uniform and as shown on Landscape Plan.
 - C. Hydroseeded:
 1. Hydroseed application to be performed within dates outlined on landscape plan. Contractor is responsible for the irrigation of all seeded areas until acceptance.
 2. Re-seed eroded or bare areas at or before 21 days after original seeding date.
 3. Continue maintenance beyond minimum period if required to meet this specification. Acceptance upon achievement of a full, uniform, weed-free stand of grass.
 4. Bed lines smooth, lines straight, curves uniform and as shown on Landscape Plan.

END OF SECTION



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LANDSCAPE SPECIFICATIONS

PROJECT # JAPC-22
DATE 12/20/2023

REV #	DATE	DESCRIPTION



LS1.1

SAK LAND DESIGN
P.O. BOX 1428
BRUSH PRAIRIE, WA 98606
509-370-0415



BRIAN L. HEWITT ENGINEERING L.L.C.

September 8, 2023

Lewis County, Public Health & Social Services
Environmental Services Division
2025 NE Kresky Ave.
Chehalis, Washington 98532

Attn: Mr. Michael Hamling

Re: #23-082: Soil Analysis and Septic design for property at 10111 Hwy 12 Randle, Washington 98377.

Parcel Number: 031753005001

Client: TRL Mountain View Library

Dear Mr. Hamling,

Attached you will find a design for a Pressure Absorption Bed system. TRL Mountain View Library is planning to building a Library on their property at 10111 Hwy 12 Randle, Washington 98377. The soil was determined to be type I, Extremely Cobbly Sandy Loam with no restrictive layer up to 65 inches. I have confirmed with the attendance of Michael Hamling at the site during the digging of the test holes. I have designed to meet treatment level E. The slope of the drainfield is 0%. The septic will have a minimum trench depth of 33" and a maximum of 45". I have used 240 gallons per day for the design following my predictive amount (see attached). The septic tank will be a 2,646 gallon three chamber concrete tank including a pump chamber. We will be installing a 24' x 10' Absorption bed. The absorption bed will have four 22 foot lateral pipes.

If you have any questions about my design please feel free to contact me at your convenience.

Sincerely,

B.L.H.
Brian L. Hewitt P.E.

Xc: TRL Mountain View Library



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242A WINSTON CREEK ROAD • MOSSYROCK, WA 98564 (Satellite Office)



BRIAN L. HEWITT ENGINEERING L.L.C.

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- Table of Contents
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BRIAN L. HEWITT ENGINEERING L.L.C.

Site Evaluation Report
August 31, 2023

Job # 23-082

Property Address: 10111 US Hwy 12 Randle, Washington 98377

Parcel Number: 031753005001

Applicant Name: Timberland Regional Library, Brenda Lane, 415 Tumwater Blvd. SW Tumwater, Washington 98501

GPD for Septic Design: 240 gallons per day

Acres: 1.0

Site Characteristics

General Topographic Characteristics: Netrae Sand

Drainage Characteristics: Somewhat Excessively drained

Slopes: General: 2-5 % Proposed Drainfield Location: 0 %

Geology: Type of Bedrock & depth: none

Vegetation: Grass

Distance to, and type of, nearest surface water: none
(If less than 250 ft.)

Distance to nearby wells: Public

Distance to public Sewers: none

Other Structures on Property: 30 ft building to be removed

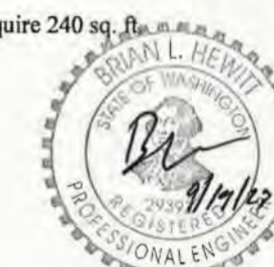
Engineer's statement regarding type of system required:

Based upon the soil analysis performed August 31, 2023, it is my determination that the primary on-site sewage system is approved for a Treatment Level E, Absorption Bed system.

The primary Drainfield area will require 240 sq. ft. (of Drainfield) minimum and 240 sq. ft. (land area) or 24 ft. by 10 ft.

The reserve area is approved for a Treatment Level E, Absorption Bed system and will require 240 sq. ft. (of Drainfield) minimum and 240 sq. ft. (land area) or 24 ft. by 10 ft.

Submitted by: Brian L. Hewitt P.E. # 29393
Date: September 8, 2023



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BRIAN L. HEWITT ENGINEERING L.L.C.

Soil Evaluation Report
August 31, 2023

Job # 23-082

Property Address: 10111 US Hwy 12 Randle, Washington 98377

Parcel Number: 031753005001

Applicant Name: Timberland Regional Library, Brenda Lane, 415 Tumwater Blvd. SW Tumwater, Washington 98501

Section 10 Township 15N Range 07E Account Number: 2227498

Soil Information

As mapped by U.S. Soil Conservation Service (S.C.S.): Netrae Sand

Soil Profile:

Depth	Description	Comments
Test Hole #1 0-43" 43-66" Roots 66"	Fine Sandy Loam (fs) Cobbly Sandy Loam (cbsl) No Mottling,	Lt Brn, 1/f/sbk gry. sg No Water
Test Hole #2 0-18" 18-65" Roots 65"	Fine Sandy Loam (fs) Extremely Cobbly Sandy Loam (excbsl) No Mottling,	Lt Brn, 1/f/sbk gry. sg No Water
Test Hole #3 0-40" 40-65" Roots 66"	Fine Sandy Loam (fs) Medium Sand (s) No Mottling,	Lt Brn, 1/f/sbk gry. sg No Water
Test Hole #4 0-18" 18-65" Roots 65"	Fine Sandy Loam (fs) Extremely Cobbly Sandy Loam (excbsl) No Mottling,	Lt Brn, 1/f/sbk gry. sg No Water

Maximum Seasonal Groundwater Elevation:

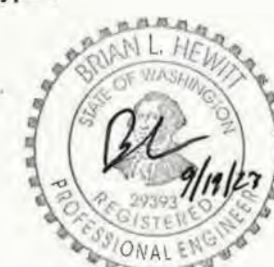
Soil Mottling: none
(Depth and degree of development)

WAC Soil Classification: Type I
(1A, 1B, 2A etc.)

Hydraulic Loading Rate: 1.0 gallons/sq ft/day

Water Table: none
(depth to standing water)

Additional Comments: Michael Hamling was at the site to verify test holes.



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BRIAN L. HEWITT ENGINEERING L.L.C.

23-082 Septic Sizing Engineering calculations

Facility information

- Facility is open 4 days per week (Tuesday -Thursday, Saturday)
- Two full time employees (15 gallons per day)
- Twenty eight patrons per day (6 gallons per day)
- Will assume the daily flow for 7 days a week rather than use extra tankage

Daily Flows

- 2 x 15 gpd = 30 gpd
- 28 x 6 gpd = 140 gpd
- Total daily volum= 170 gpd x 40% safety factor = 238 gpd
- Will round up to 240 gallons per day for sizing of tanks and drain drainfield

Re: # 23-082; TRL Mountain View Library, 10111 Hwy 12 Randle, Washington 98377



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BRIAN L. HEWITT ENGINEERING L.L.C.

23-082 Pressure Distribution Worksheet
September 8, 2023

Step 1: Determine the daily wastewater load and select a pretreatment process

- Daily design flow 240 gal.
- Pretreatment method: Septic Size: 2,646 gal.
- Other pretreatment required? No

Step 2: Size the infiltration area and make a detailed preliminary drawing

- Required infiltration area: 240 sq. ft. (daily wastewater load)
- Preliminary drawing of layout. (on separate sheet of paper)

Step 3: Specify and layout components of the pressure distribution network

- Transport line: Length: 75 ft
Diameter: 1.25 in
Material: PVC Sch 40
Highest elevation: 10 ft.
- Manifold: End Manifold Length: 7.5 ft.
Diameter: 1.25 in
Material: PVC Sch 40
Highest elevation: 0 ft.
- Lateral: How many? 4
Length: 22 ft (28 ft installed)
Diameter: 1.0 in
Material: PVC Sch 40
Highest elevation: 0 ft.
- Orifice: Diameter: 3/16 in.
Spacing: 2.0 ft.
Orientation: 6:00
How many/lateral: 12
How many total: 48

Step 5: Calculate the total Dynamic Head in the network
(See attached Oreco Pump Selection Program)
Total Dynamic Head: 27.2 ft.

Re: # 23-082; TRL Mountain View Library, 10111 Hwy 12 Randle, Washington 98377



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SEPTIC DESIGN

PROJECT # 22048

DATE 10/17/2023

REV #	DATE	DESCRIPTION

SP100

BID SET



BRIAN L. HEWITT ENGINEERING L.L.C.

23-082 Pressure Distribution Worksheet cont. September 8, 2023

- Step 6: Select a pump (See attached Orenco Pump Selection Program)
Step 7: Calculate dose volume: Total number of doses/day selected/required 8, Dose volume: 30 gal. (Daily design flow / # of doses/day)
Step 8: Set the method of pump operation: Timer Controlled
Step 9: Design the pump/siphon chamber or surge tank and set pump controls



Re: # 23-082; TRL Mountain View Library, 10111 Hwy 12 Randle, Washington 98377

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BRIAN L. HEWITT ENGINEERING L.L.C.

C-33 Specifications/Installation

Filter Media (ASTM C-33) Particle Size Analysis Specifications
The standard method to be used for performing particle size analysis must comply with one of the following:
• The sieve method specified in ASTM D136 and ASTM C-117
• The method specified in Soils Survey Laboratory Methods and Procedures for Collection Soil Samples, Soil Survey Investigation Report #1, US Department of Agriculture, 1984.

Sand-Lined Drainfield Trench Filter Media (ASTM C-33)
Media may be either mineral sand or crushed glass meeting all of the conditions 1-4 below.

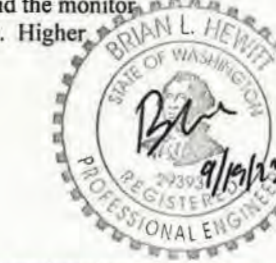
1. Particle size distribution

Table with 3 columns: Sieve, Particle Size, Percent Passing. Rows include sieves 3/8 in, No. 4, No. 8, No. 16, No. 30, No. 50, No. 100, and No. 200.

- 2. The sand must have not more than 45% passing any one sieve and retained on the next consecutive sieve, of those shown above.
3. The fineness modulus must not be less than 2.3 nor more than 3.1, and is defined as a numeric quantity to control the distribution of filter media particle sizes within the specified range for sand lined trenches /beds.
4. The limit for material that can pass the No. 200 sieve must not be more than 3%.

Installation of Sand C-33

In order to prevent differential settling when the sand-lined trench system is put into service the filter media must have uniform density throughout. Uniform density may be accomplished on of two ways, depending on the moisture content of the filter media during construction. If the filter media is so dry that it can be poured (like salt or sand in a hourglass), it can simply be poured to fill the sand filter excavation, then settled lightly (not compacted) to allow about 5% settling -i.e., volume reduction. However, if the filter media is moist enough that it cannot be poured, it should be placed in successive 6-inch lifts with each lift lightly settled. The intent of the settling in both cases are no large voids in the media that will collapse later when effluent is added.



Re: # 23-082; TRL Mountain View Library, 10111 Hwy 12 Randle, Washington 98377

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Pump Selection for a Pressurized System - Single Family Residence Project
23-082 TRL Mountain View Library / 10111 Hwy 12 Randle, Wa. 98377

Parameters

Table of parameters including Discharge Assembly Size (1.25 inches), Transport Length (75 feet), Transport Pipe Class (40), Transport Pipe Size (1.25 inches), Discharge Valve Model (None), Manifold Length (10 feet), Manifold Pipe Class (40), Manifold Pipe Size (1.25 inches), Number of Laterals per Cell (4), Lateral Length (22 feet), Lateral Pipe Class (40), Lateral Pipe Size (1.00 inches), Orifice Size (3/16 inches), Orifice Spacing (7 feet), Residual Head (2 feet), Flow Meter (None), and Absorption Losses (0 feet).

Calculations

Table of calculations including Minimum Flow Rate per Orifice (682 gpm), Number of Orifices per Zone (48), Total Flow Rate per Zone (328 gpm), Number of Laterals per Zone (4), % Flow Difference Last Cell Orifice (58%), and Transport Losses (65 lbs).

Frictional Head Losses

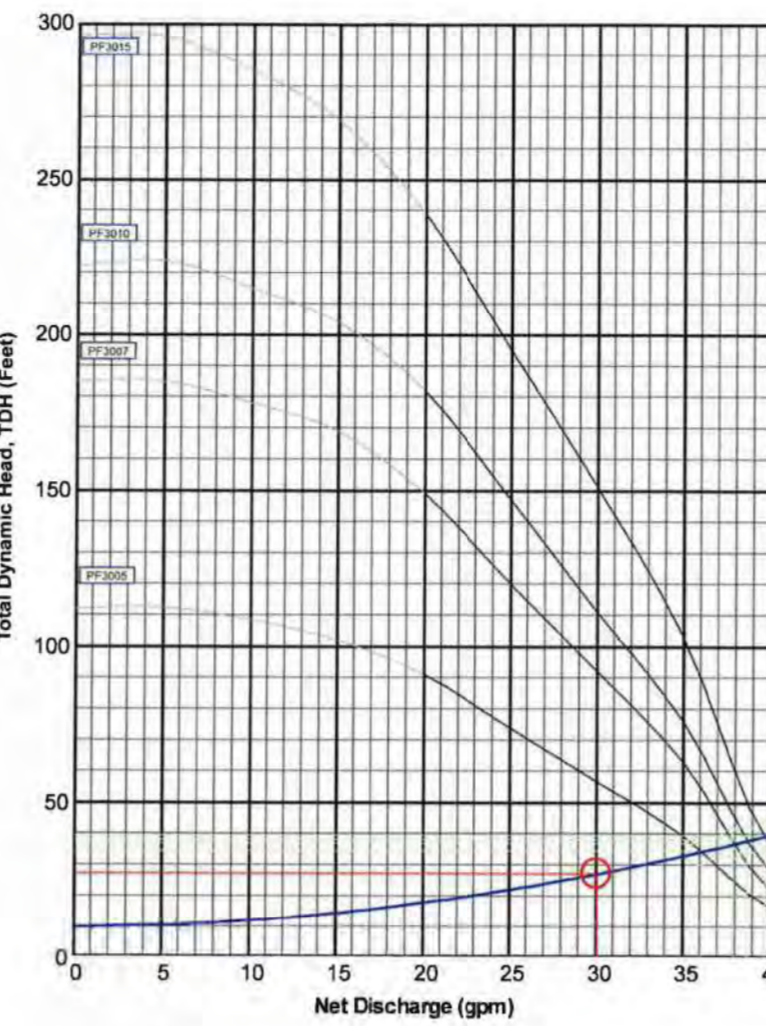
Table of frictional head losses including Loss through Discharge (63 feet), Loss in Transport (83 feet), Loss through Valve (00 feet), Loss in Manifold (02 feet), Loss in Lateral (03 feet), Loss through Flowmeter (00 feet), and Loss in Friction Losses (00 feet).

Pipe Volumes

Table of pipe volumes including Volume of Transport Line (58 gals), Volume of Manifold (06 gals), Volume of Laterals per Zone (39 gals), and Total Volume (104 gals).

Minimum Pump Requirements

Table of minimum pump requirements including Design Flow Rate (300 gpm) and Total Dynamic Head (272 feet).



Pump Data

- PF300 High Head Bluer Pump, 30GPM @ 272, 119GPM @ 100 @ 220V @ 30/0 Hz
PF300 High Head Bluer Pump, 30GPM @ 272, 230V @ 10/0 Hz, 220V @ 30/0 Hz
PF300 High Head Bluer Pump, 30GPM @ 272, 220V @ 10/0 Hz, 220V @ 30/0 Hz
PF300 High Head Bluer Pump, 30GPM @ 272, 220V @ 10/0 Hz, 220V @ 30/0 Hz

Legend

- System Curve (solid line)
Pump Curve (dashed line)
Pump Operating Range (shaded area)
Operating Point (red circle)
Design Point (red circle)



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23-082 Material List

This list is an attempt for the contractor to get a good idea what is to be purchased. It is not intended to be the complete list of all necessary materials for the project.

All substitutions must be pre-approved by the engineer before installation

- Septic Tank, three chamber concrete tank, Sound Placement Services Model 12-2633, 2,646 gallons, well sealed, water tight- or equal
Three access risers, 24" diameter with lids, sealed to tank using Orenco Epoxy
Orenco Biotube® EasyPak™ BEP30TDD
Includes Pump, Biotube, 3- floats, MVP control panel, etc.
Pump: PF3005 1/2 hp- 30.0 GPM @ 27.2' TDH
External disconnect for control panel wiring
Electrical- Provide two 20 amp circuits to system, One for Pump 120 v, one for level Switches 120 v
Piping
1.25" diameter- PVC discharge assembly
1.25" diameter- PVC Schedule 40 Transport
1.0" diameter PVC Schedule 40 lateral piping
48 Orenco Orifice Shields
Misc. fittings
Valves
1.25" PVC ball valves, 150 lb rating
1.25" diameter PVC check valve
(4) Fiberglass valve box for laterals- locking lid
Fiberglass valve box for main manifold- locking lid
4" PVC schedule 40 pipe and threaded cap for observation ports and cleanouts
Mound Filter Media Fill material- C-33 sand (see specifications attached)
Geotextile filter covering over Sand Filter and Mound- Remya Typar 32016
Bed Gravel Material- Washed and clean, size ranging 2.5- 3.4" containing no more than 2% by weight passing a US #6 sieve and nor more than 1% by weight passing a US #200 sieve.
Top soil- use sandy loam- clean of debris- any other material must be pre-approved by engineer. NO CLAY CONTENT

Two electrical 120 v circuits with external disconnects must be supplied to the control panel and all wiring is to be run in sealed conduit from the control panel to the splice box or the system will not be approved

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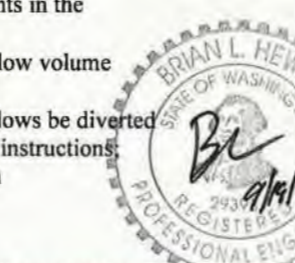
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OPERATIONS AND MAINTENANCE

This system was designed to operate at a peak flow of 120 gallons per day and average of 80 gallons per day for each bedroom in the house and at a waste strength typical for a residence. If the average waste flow or waste strength is exceeded, this system WILL FAIL. Please note the following requirements to help lengthen the life of your septic system:

Prevent continuous running of water from going into the septic system. Such as toilets, leaking faucets, Water Softener units, etc. This will quickly make the Drainfield fail or alarms sound.

- All Gravity Fed Septic systems are required by state code to be inspected every 3 years and pumped only when necessary.
All Pressurized Septic systems are required state code to be inspected every year and pumped only when necessary. This shall be performed by either the home owner or a licensed O & M service provider.
Pump Vault-type filters must be removed and rinsed with a hose every year.
If a baffle-type filter is used on the outlet side of the septic tank it must be removed and rinsed with a hose every 6 months.
Plantings on drainfields should be limited to ground cover or grass. Roots from trees, shrubs, etc can be detrimental and cause pre-mature system failure.
The area over the drainfield, sand filter, Glendon® pods, Sub-Surface Drips, etc should be inspected for erosion twice a year and repaired as necessary.
Pump(s), floats, alarms, switches and controls should be inspected yearly and repaired/adjusted as necessary to maintain the dose volumes and times in design.
Residual pressure at the distal ends of pressure drainfields should be checked yearly and compared to the information recorded in the as-built (if system pressurized). Clean laterals if necessary.
Toxic substances (i.e. paint, paint thinner, oils, pesticides, RV chemicals, and solvents) should NEVER be dumped into sinks or toilets.
Cooking oils, grease, coffee grounds, cigarettes, paper towels, newspaper, sanitary napkins, diapers and hair should NEVER be dumped into sinks or toilets.
Garbage disposals shall NOT be used unless specifically designed for. They can cause pre-mature system failure and require additional treatment devices if used.
Septic tank additives should NOT be used. Some of these products can cause solids to enter the drainfield causing early system failure.
The septic tank can be pumped clean but should NEVER be washed or disinfected.
Under NO circumstances should anyone enter a septic tank. Poisonous gases, contaminants and lack of oxygen may be fatal.
No roads, structures or other physical features should be located over the primary or reserve drainfield areas (see plans for locations).
Detergent w/ bleach, liquid fabric softener, hair conditioner, antibacterial products and liquid drain cleaner should be avoided whenever possible.
A washing machine filter can help reduce buildup in the septic tank and contaminants in the drainfield.
Implement a water conservation plan for your house. Use low flow shower heads, low volume toilets, etc.
In no case should swimming pools, water softener discharges or other large water flows be diverted into the system or on top of the drainfield. If a container mentions these words on the instructions: Warning, Danger, or Hazardous, These items should not be put into the septic system



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PERFORMANCE MONITORING

Performance monitoring shall be performed every six months or whenever there is a problem. A contract is Recommended between the owner and the maintenance provider to ensure proper maintenance is performed. Criteria used for performance monitoring of systems should include the following:

- System type/age and soil type/conditions
Mechanical and/or electrical malfunctions (including switches, alarm, valves and dose volumes/frequency) should be checked. Dose volumes and timer setting should be verified to ensure as-built settings are still met.
Septic tank problems including inadequate pumping or baffling and groundwater intrusion
Pump tank problems including inadequate servicing and groundwater intrusion
Ponding or clogging of the system trenches, orifices and filters
Evidence of improper use or neglect including higher than normal flows or strengths
Residual pressure at the distal ends of pressurized systems should match the as-built
Drainfield area should be evaluated for surface effluent, appropriate vegetation, and absence of traffic, structures, impervious surfaces and abnormal settling.
Monitoring ports should be checked for ponding.

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PO Box 798
Battle Ground, WA 98604
Ph: 360-687-8379
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SEPTIC DESIGN

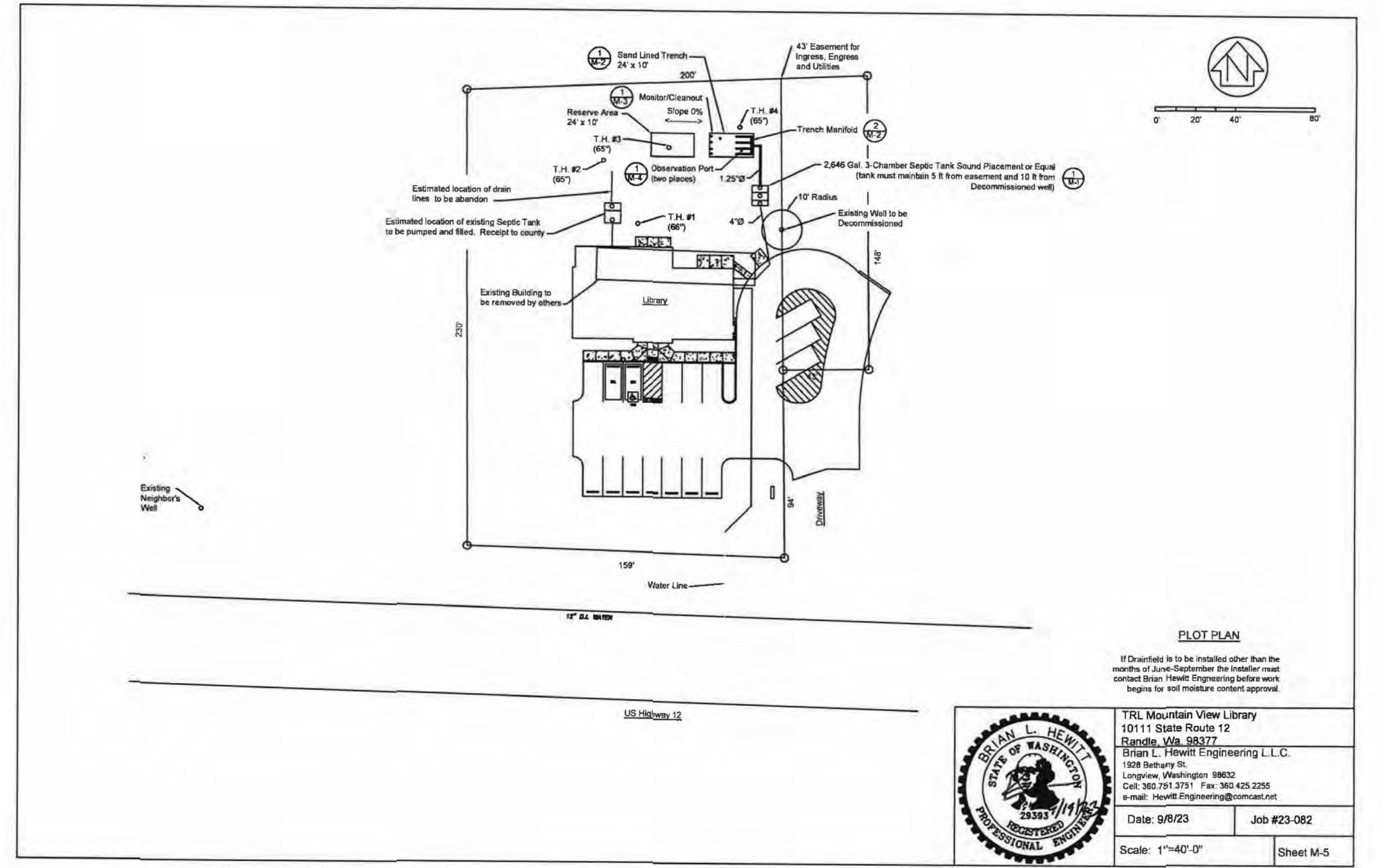
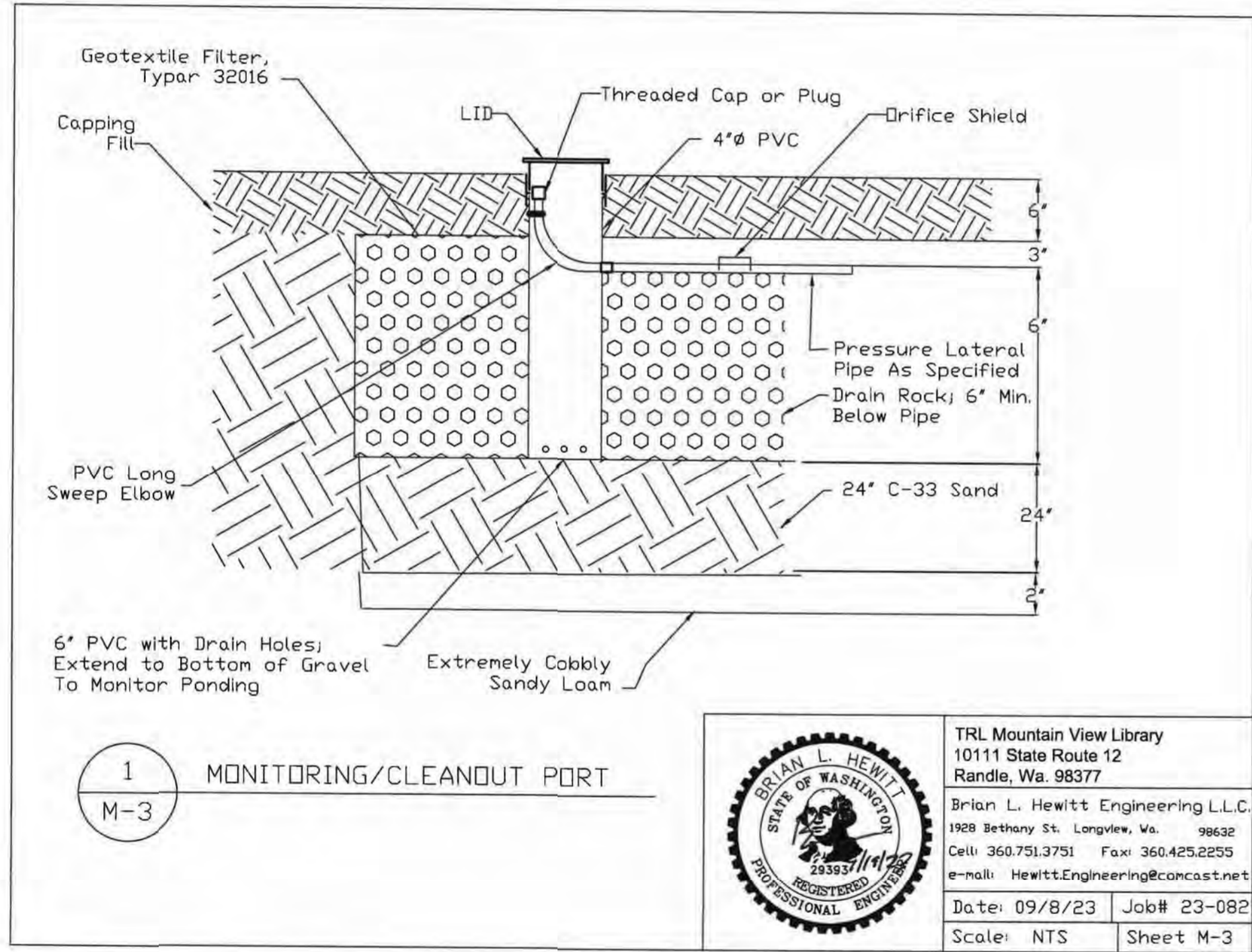
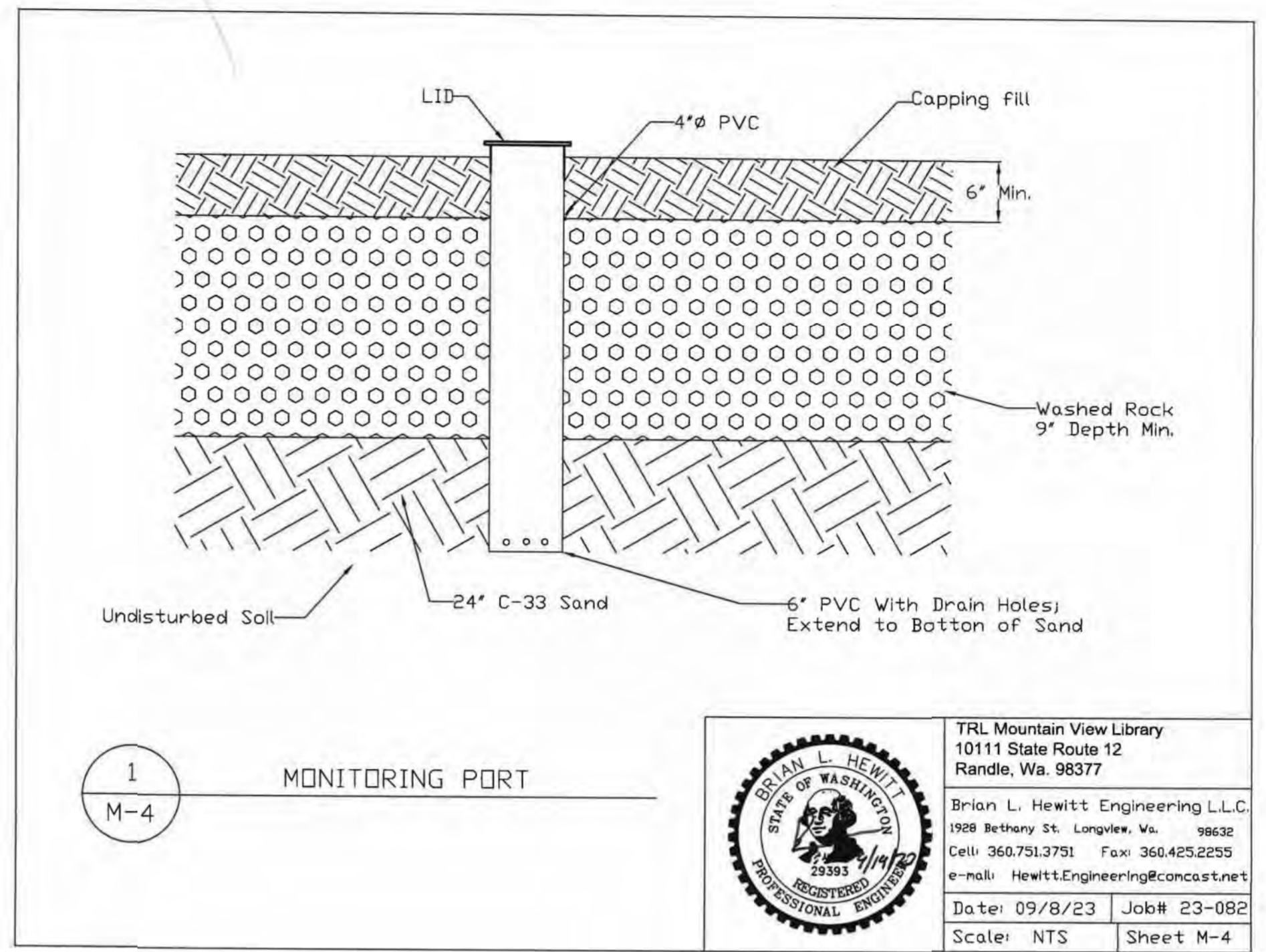
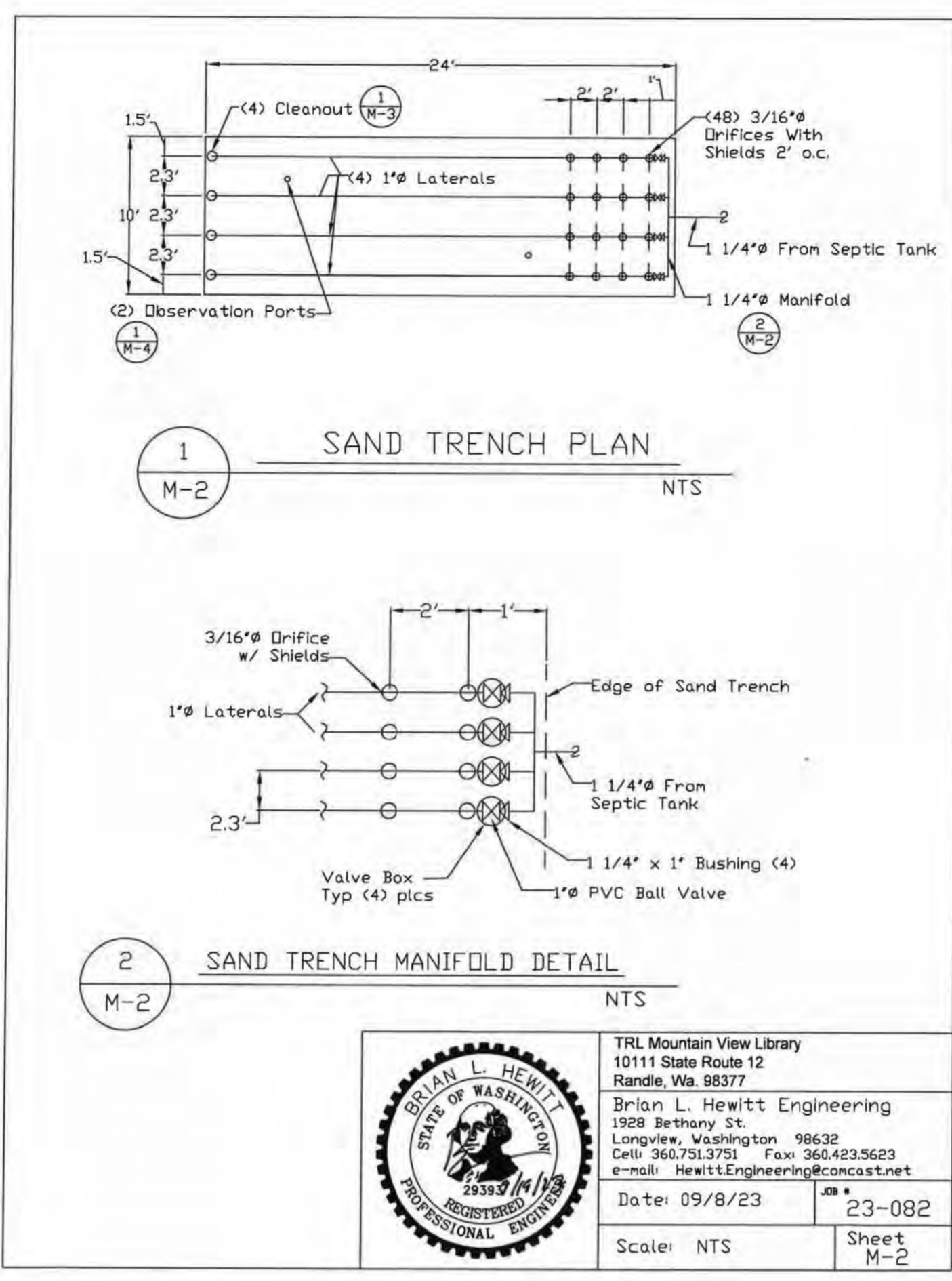
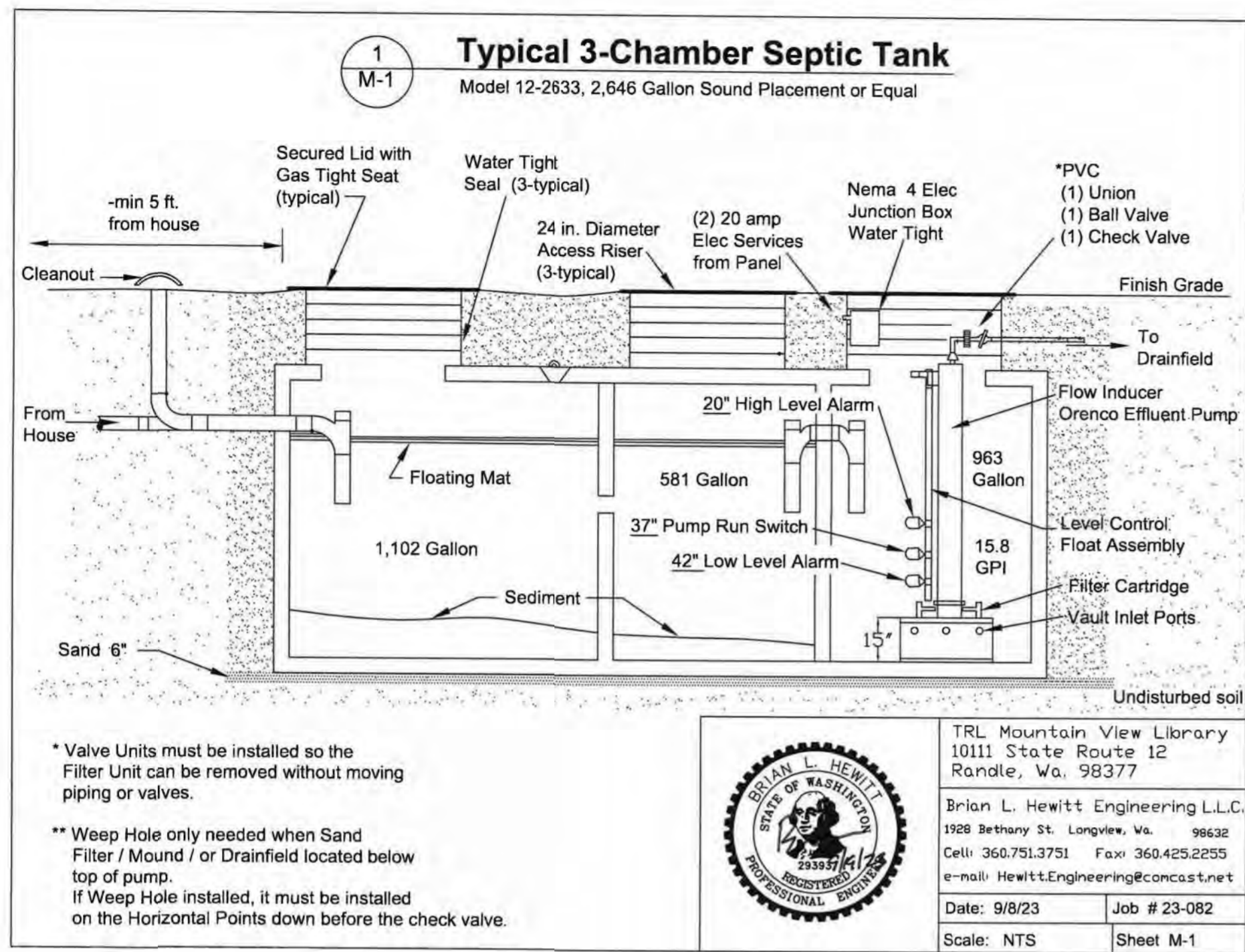
PROJECT # 22048

DATE 10/17/2023

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SP101

BID SET



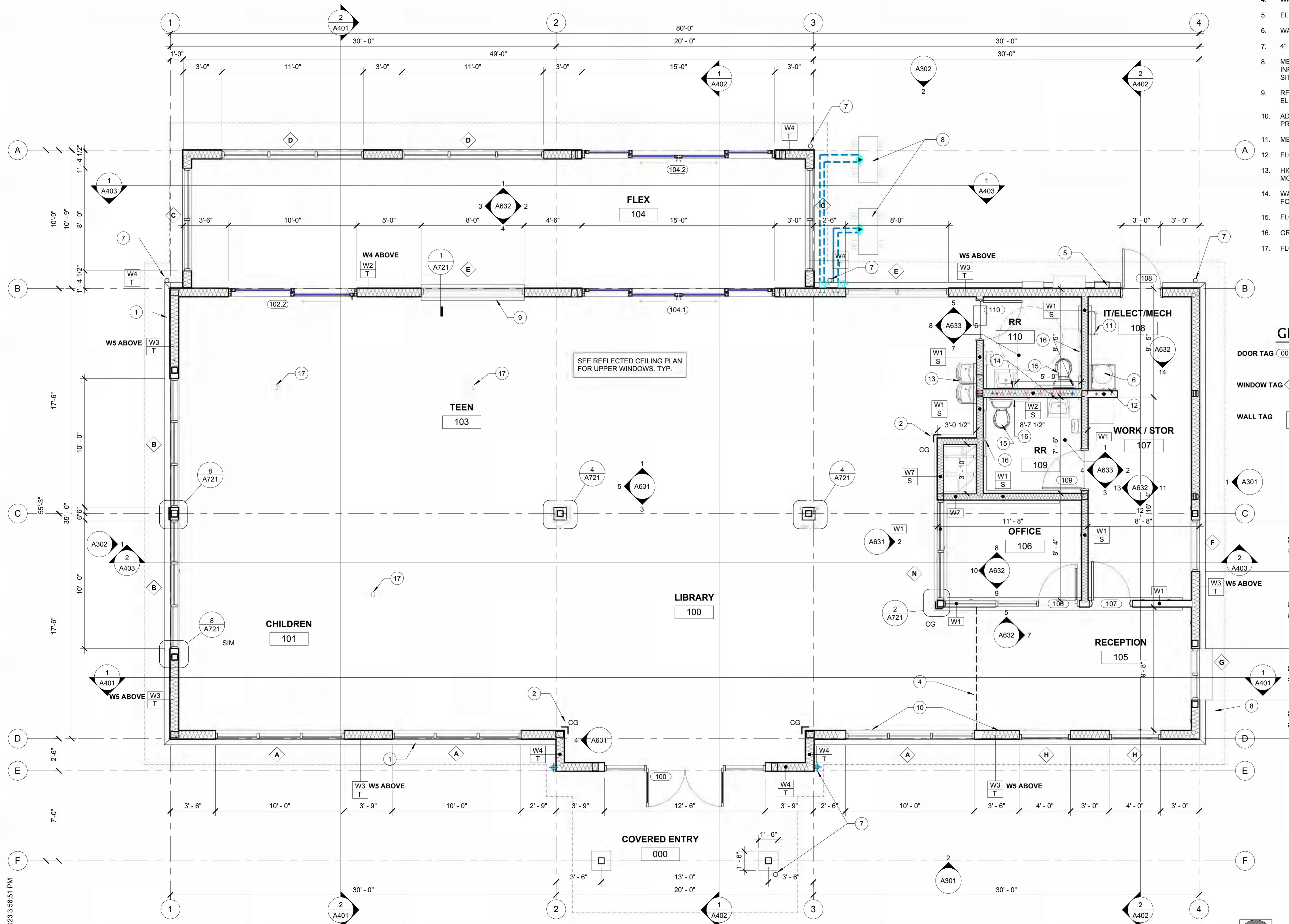
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SEPTIC DESIGN

PROJECT # 22048
DATE 10/17/2023

REV #	DATE	DESCRIPTION

SP102
BID SET



KEYNOTES:

1. VENEER STONE, SEE WALL TYPES & DETAILS FOR ADDITIONAL INFORMATION.
2. CORNER GUARD, SEE SPECIFICATION FOR MORE INFORMATION.
3. CASEWORK, SEE INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.
4. WALL ABOVE, SEE REFLECTED CEILING PLANS & STRUCTURAL.
5. ELECTRICAL METER, SEE ELECTRICAL.
6. WATER HEATER MOUNTED ABOVE, SEE PLUMBING.
7. 4" DOWNSPOUT, CONNECT TO STORM, SEE CIVIL & PLUMBING.
8. MECHANICAL HEAT PUMPS, SEE MECHANICAL FOR MORE INFORMATION. PROVIDE CONCRETE EQUIPMENT PAD, SEE CIVIL SITE PLAN.
9. RECESSED WALL MOUNT ELECTRICAL FIRE PLACE, SEE ELECTRICAL & SPECIFICATION FOR MORE INFORMATION.
10. ADDITIONAL OUTLETS AND DATA PROVIDED ALONG WALL FOR PRINTING AND COMPUTER EQUIPMENT, SEE ELECTRICAL.
11. MECH EQUIPMENT ACCESS LADDER.
12. FLOOR MOUNTED MOP SINK, REFER TO INTERIOR ELEVATIONS.
13. HIGH-LOW DRINKING FOUNTAIN WITH BOTTLE FILLER, MOUNTING HEIGHTS PER ANSI A117.1-2009.
14. WALL MOUNTED SINK & MIRROR ABOVE, REFER SHEET A002 FOR MOUNTING HEIGHTS, REFER TO INTERIOR ELEVATIONS.
15. FLOOR MOUNTED TOILET, SEE A002 FOR MORE INFORMATION.
16. GRAB BARS, REFER SHEET A002
17. FLOOR MOUNTED RECEPTACLES, REFER TO ELECTRICAL

GENERAL NOTES:

- DOOR TAG** 000 SEE DOOR SCHEDULE FOR MORE INFORMATION ON SHEET A511 & A711 FOR DETAILS. SEE ALSO SPECIFICATION SECTION 08.
- WINDOW TAG** # SEE WINDOW TYPES ON SHEET A512 & DETAIL SHEETS FOR MORE INFORMATION. SEE ALSO SPECIFICATION SECTION 08
- WALL TAG** W1 A SEE WALL TYPES ON SHEET A500 FOR ADDITIONAL INFORMATION. THERMAL INSULATION SPECIFICATION SECTION 07
- BOOKSHELVES BY OTHERS, NIC.
- BATHROOM ACCESSORIES BY OTHERS, NIC.



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Architects
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PO Box 798
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FLOOR PLAN

PROJECT #	22048
DATE	12/27/2023
DATE	2023.12.27
DESCRIPTION	BID SET

A202

BID SET

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1 FLOOR PLAN
1/4" = 1'-0"

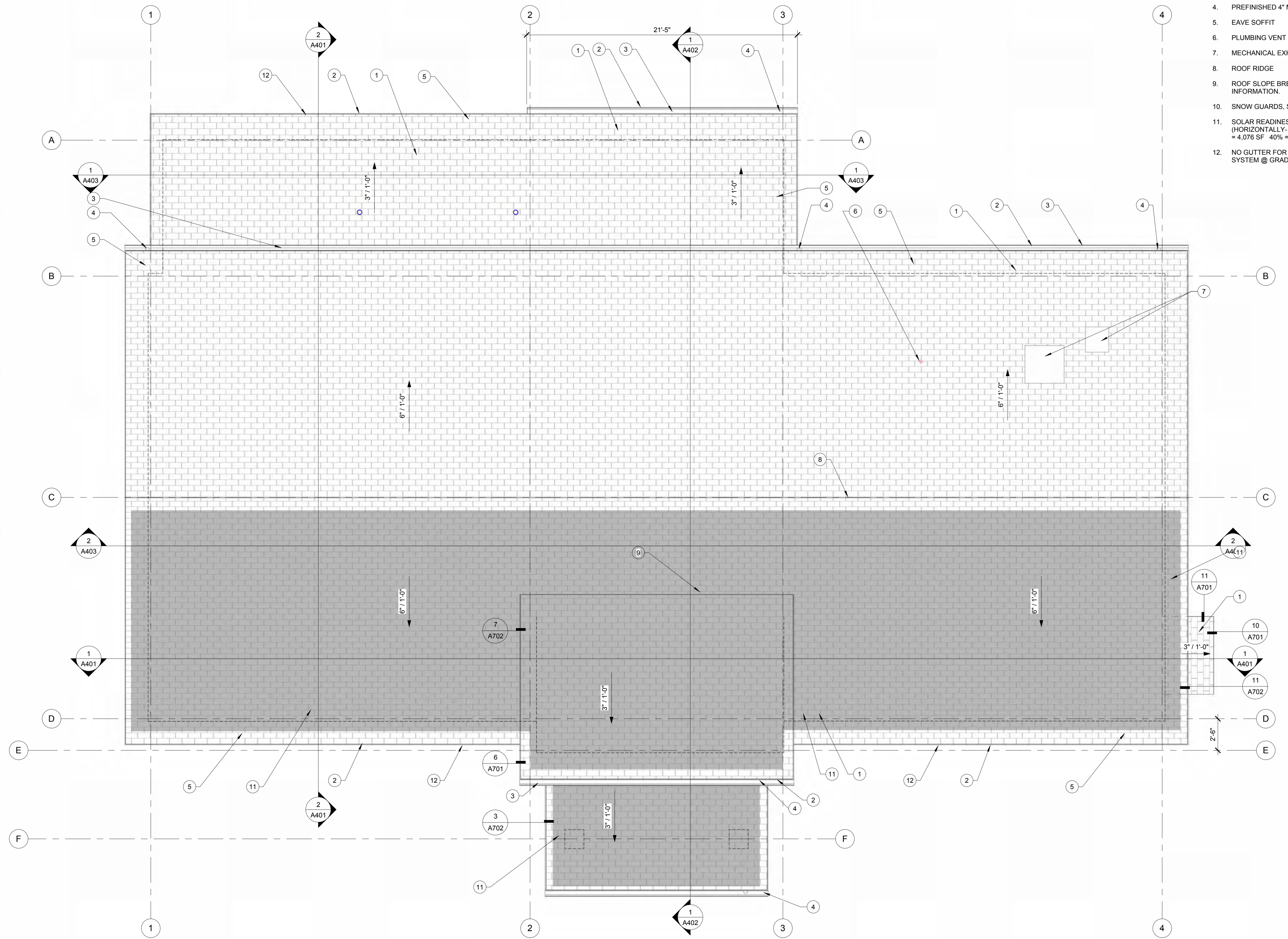


KEYNOTES:

1. ASPHALT SHINGLE ROOFING
2. CEMENT BOARD FASCIA, SEE DETAILS.
3. PRE-FINISHED METAL GUTTER
4. PREFINISHED 4" MIN DOWNSPOUT
5. EAVE SOFFIT
6. PLUMBING VENT
7. MECHANICAL EXHAUST
8. ROOF RIDGE
9. ROOF SLOPE BREAK, SEE DETAIL SHEET FOR MORE INFORMATION.
10. SNOW GUARDS, SEE SPECIFICATION FOR MORE INFORMATION.
11. SOLAR READINESS AREA - SHADED LIGHT GREY (HORIZONTALLY-PROJECTED GROSS ROOF AREA = 4,076 SF 40% = 1,630 SF MIN.)
12. NO GUTTER FOR ICE/SNOW CONDITIONS. ROOF DRAINAGE SYSTEM @ GRADE



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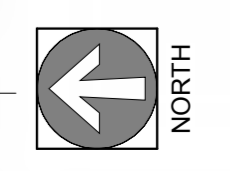
ROOF PLAN

PROJECT #	22048
DATE	12/27/2023
DATE	2023.12.27
DESCRIPTION	BID SET

A211
BID SET

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

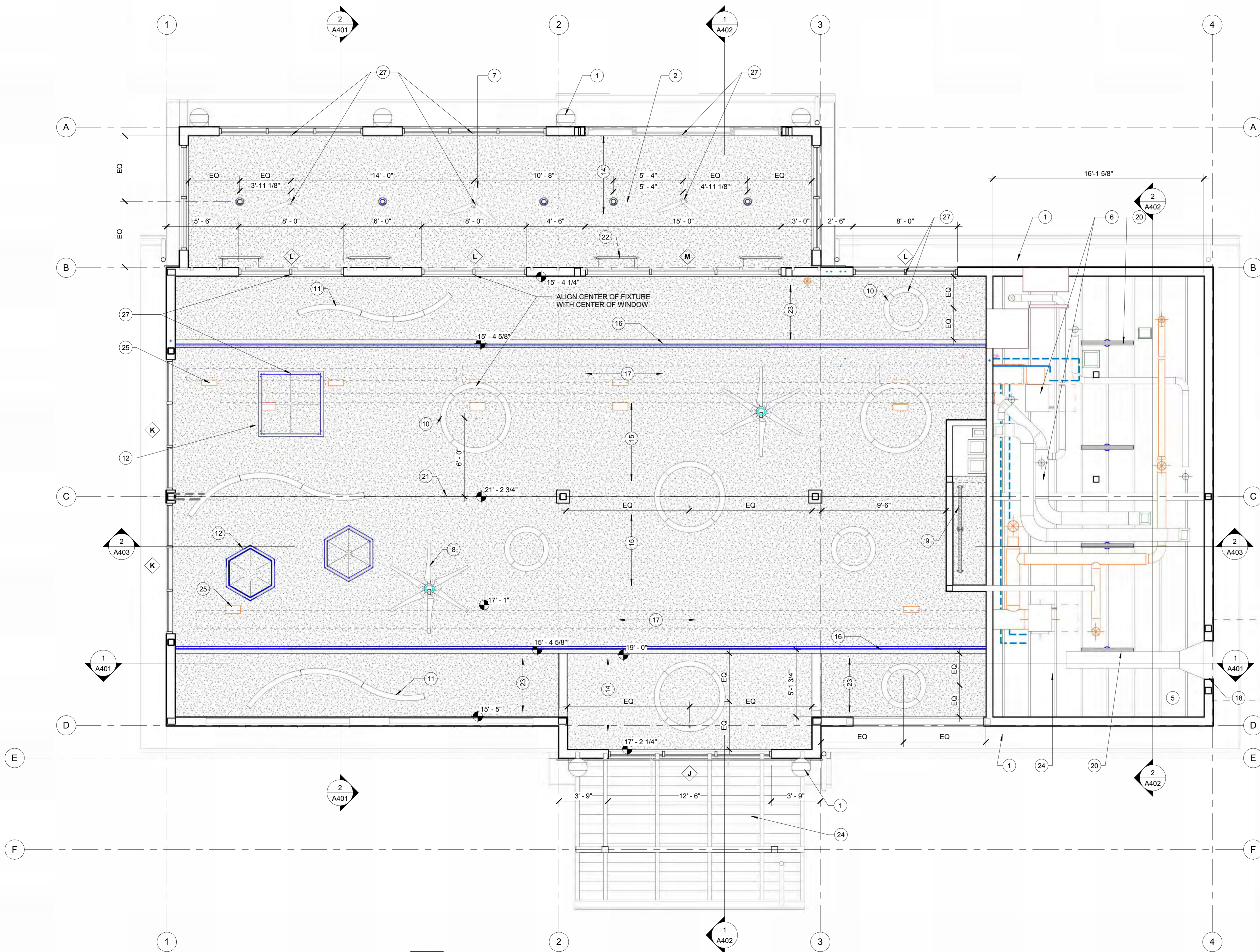


KEYNOTES:

1. EXTERIOR WALL MOUNTED LIGHTS. SEE ALSO EXTERIOR ELEVATIONS.
2. RECESSED CIRCULAR LED LIGHT, COORDINATE WITH OFFICE CASEWORK &/OR PLUMBING FIXTURES.
3. OCCUPANCY SENSORS REQUIRED. SEE ELECTRICAL.
4. EQUIPMENT ACCESS LADDER. SEE SHEET SPECIFICATION & DETAIL SHEET FOR MORE INFORMATION.
5. VANITY LIGHT WALL MOUNTED ABOVE SINK & MIRROR. SEE INTERIOR ELEVATIONS FOR MORE INFORMATION.
6. MECHANICAL EQUIPMENT. SEE MECHANICAL FOR MORE INFORMATION.
7. CEILING FAN WITH LIGHT
8. HIGH VOLUME LOW SPEED CEILING FAN
9. UPLIGHTS MOUNTED ABOVE 10' LID.
10. SUSPENDED ROUND DIAMETER LIGHT, 12' AFF.
11. SUSPENDED CURVE LIGHTS, 12' AFF
12. SUSPENDED LIGHT, 12' AFF
13. FLUSH MOUNT LIGHT
14. SLOPED 3/12 GWB CEILING, ATTACHED TO ROOF STRUCTURE.
15. SLOPED 6/12 GWB CEILING. CREATING SPACE FOR MECHANICAL DUCTS. SEE ALSO BUILDING SECTIONS.
16. CEILING SOFFIT WALL/COVE, PAINTED TO MATCH CEILING COLOR.
17. DUCTING LOCATED ABOVE IN ENCLOSED SOFFIT.
18. MECHANICAL LOUVER. SEE MECHANICAL & EXTERIOR ELEVATIONS.
19. LINEAR LOW PROFILE LED LIGHT.
20. SUSPENDED STRIP LIGHT.
21. RIDGE.
22. RADIANT HEATERS. SEE MECHANICAL.
23. SLOPED 6/12 GWB CEILING, ATTACHED TO ROOF STRUCTURE.
24. EXPOSED ROOF STRUCTURE.
25. SUPPLY REGISTER TO MATCH CEILING COLOR. SEE MECHANICAL FOR SIZE.
26. RETURN REGISTER TO MATCH CEILING OR WALL COLOR. SEE MECHANICAL FOR SIZE.
27. ALIGN CENTER OF FIXTURE WITH CENTER OF WINDOW

GENERAL NOTES:

1. SEE ELECTRICAL DRAWINGS AND SPECIFICATION FOR MORE INFORMATION ON LIGHTS AND EMERGENCY LIGHTING COMPLIANCE.
2. EGRESS ILLUMINATION PROVIDED PER SECTION 1008. IN THE EVENT OF A POWER SUPPLY FAILURE AN EMERGENCY SYSTEM SHALL AUTOMATICALLY ILLUMINATE REQUIRED SPACES TO INITIAL ILLUMINATION OF NOT LESS THAN AN AVERAGE OF 1 fc AND A MINIMUM AT ANY POINT OF 0.1 fc MEASURED ALONG THE PATH OF EGRESS AT FLOOR LEVEL AT DURATIONS LISTED IN BUILDING CODE. ILLUMINATION LEVELS SHALL BE PERMITTED TO DECLINE AS ALLOWED BY CODE AT END OF THE EMERGENCY LIGHTING TIME DURATION.
3. CENTER ALL LIGHT FIXTURES, MECHANICAL AND ELECTRICAL ITEMS IN GYPSUM BOARD CEILINGS AND SOFFITS.
4. PROVIDE LIGHTING CONTROLS PER WSEC C405.2.1 - C405.2.8
5. ALL RECESSED LIGHTING FIXTURES SHALL BE IC RATED & HAVE AN AIR LEAKAGE RATING NOT GREATER THAN 2 CFM PER ASTM E283 TEST.



1 LIBRARY & MEZZANINE RCP
1/4" = 1'-0"



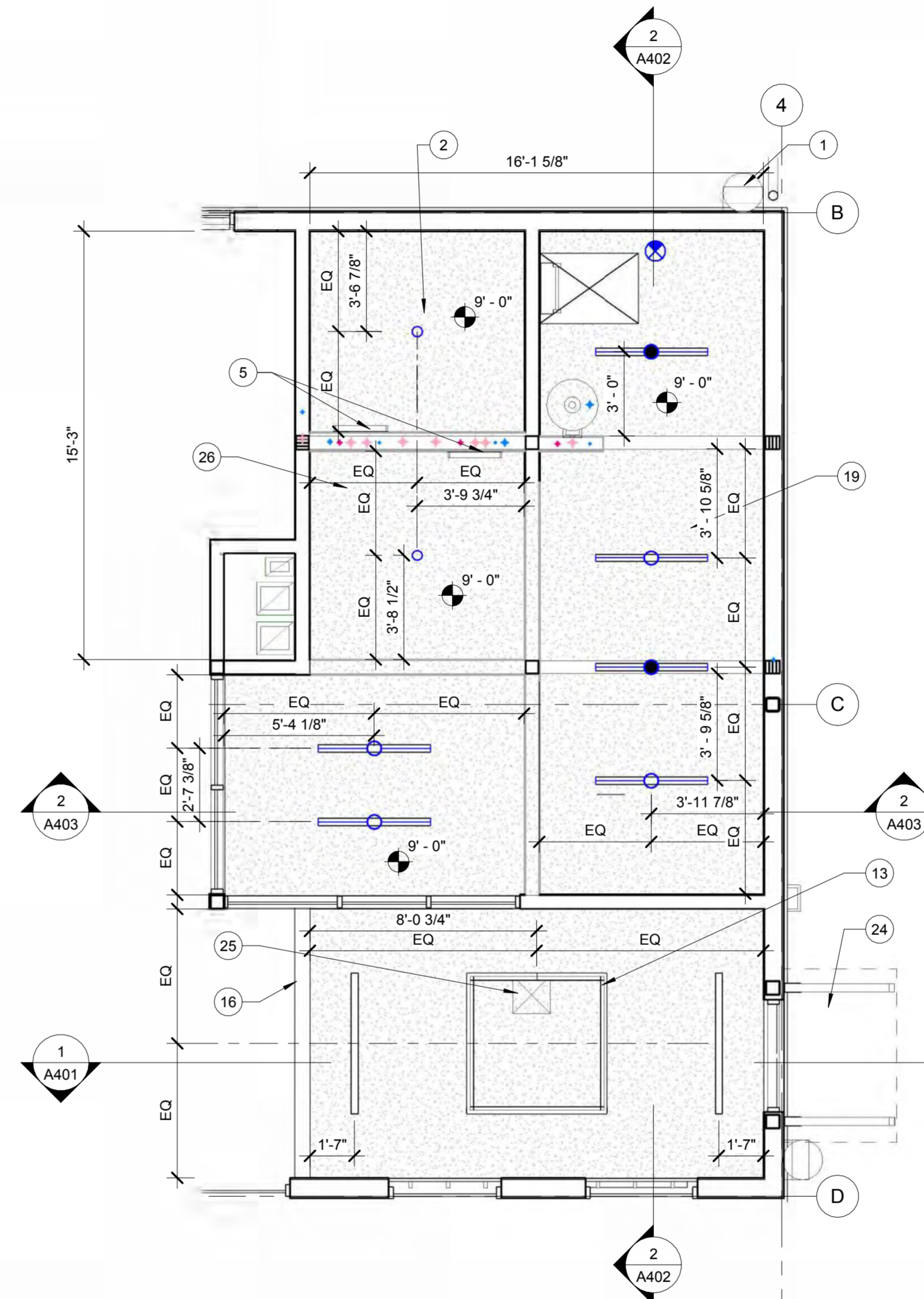
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KEYNOTES:

- EXTERIOR WALL MOUNTED LIGHTS, SEE ALSO EXTERIOR ELEVATIONS.
- RECESSED CIRCULAR LED LIGHT, COORDINATE WITH OFFICE CASEWORK &/OR PLUMBING FIXTURES.
- OCCUPANCY SENSORS REQUIRED. SEE ELECTRICAL.
- EQUIPMENT ACCESS LADDER. SEE SHEET SPECIFICATION & DETAIL SHEET FOR MORE INFORMATION.
- VANITY LIGHT WALL MOUNTED ABOVE SINK & MIRROR, SEE INTERIOR ELEVATIONS FOR MORE INFORMATION.
- MECHANICAL EQUIPMENT. SEE MECHANICAL FOR MORE INFORMATION.
- CEILING FAN WITH LIGHT
- HIGH VOLUME LOW SPEED CEILING FAN
- UPLIGHTS MOUNTED ABOVE 10' LID.
- SUSPENDED ROUND DIAMETER LIGHT, 12' AFF.
- SUSPENDED CURVE LIGHTS, 12' AFF
- SUSPENDED LIGHT, 12' AFF
- FLUSH MOUNT LIGHT
- SLOPED 3/12 GWB CEILING, ATTACHED TO ROOF STRUCTURE.
- SLOPED 6/12 GWB CEILING, CREATING SPACE FOR MECHANICAL DUCTS. SEE ALSO BUILDING SECTIONS.
- CEILING SOFFIT WALL/COVE, PAINTED TO MATCH CEILING COLOR.
- DUCTING LOCATED ABOVE IN ENCLOSED SOFFIT.
- MECHANICAL LOUVER. SEE MECHANICAL & EXTERIOR ELEVATIONS.
- LINEAR LOW PROFILE LED LIGHT.
- SUSPENDED STRIP LIGHT.
- RIDGE.
- RADIANT HEATERS, SEE MECHANICAL.
- SLOPED 6/12 GWB CEILING, ATTACHED TO ROOF STRUCTURE.
- EXPOSED ROOF STRUCTURE.
- SUPPLY REGISTER TO MATCH CEILING COLOR. SEE MECHANICAL FOR SIZE.
- RETURN REGISTER TO MATCH CEILING OR WALL COLOR. SEE MECHANICAL FOR SIZE.
- ALIGN CENTER OF FIXTURE WITH CENTER OF DOOR OR WINDOW

GENERAL NOTES:

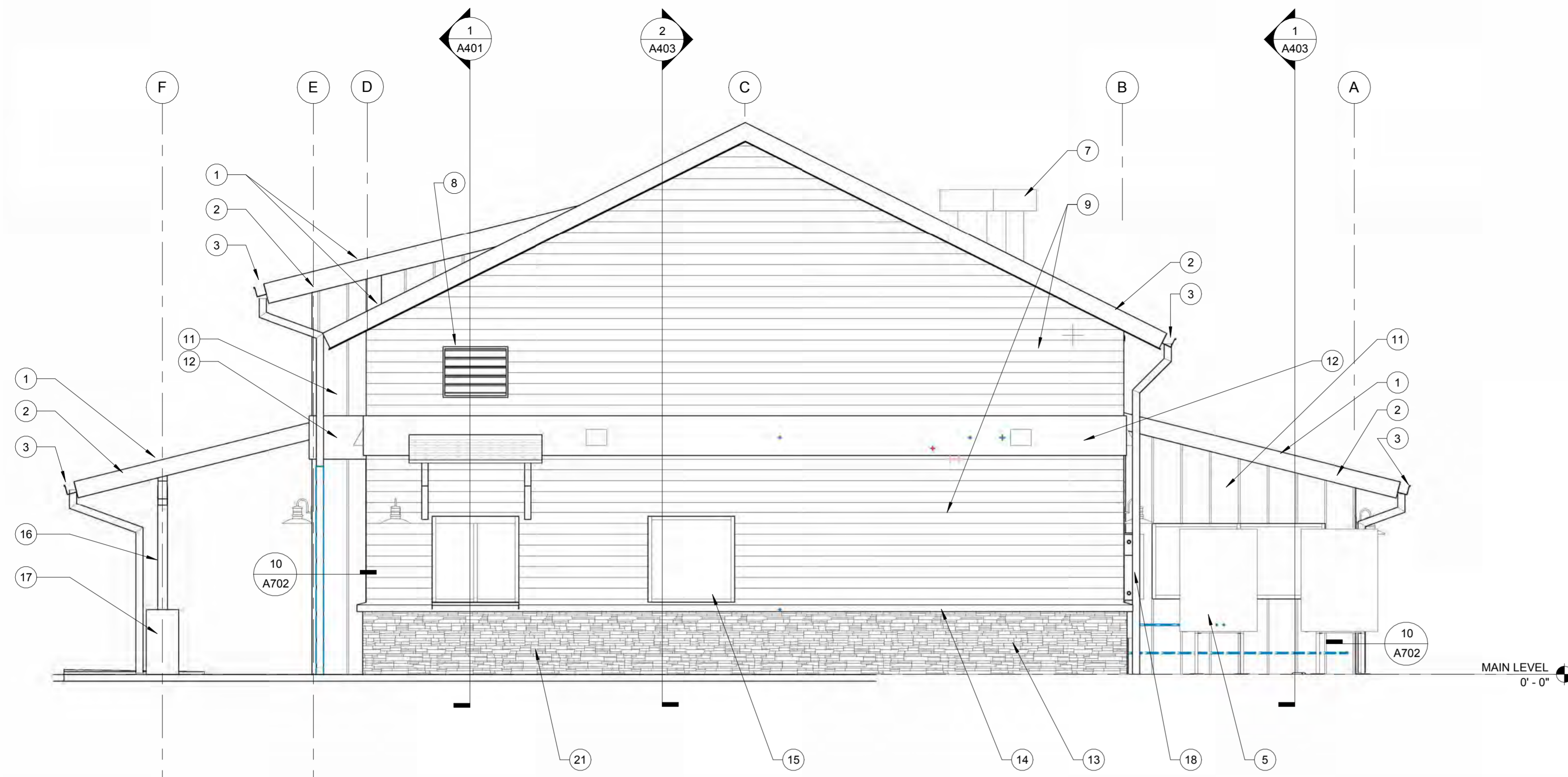
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- CENTER ALL LIGHT FIXTURES, MECHANICAL AND ELECTRICAL ITEMS IN GYPSUM BOARD CEILINGS AND SOFFITS.
- PROVIDE LIGHTING CONTROLS PER WSEC C405.2.1 - C405.2.8
- ALL RECESSED LIGHTING FIXTURES SHALL BE IC RATED & HAVE AN AIR LEAKAGE RATING NOT GREATER THAN 2 CFM PER ASTM E283 TEST.



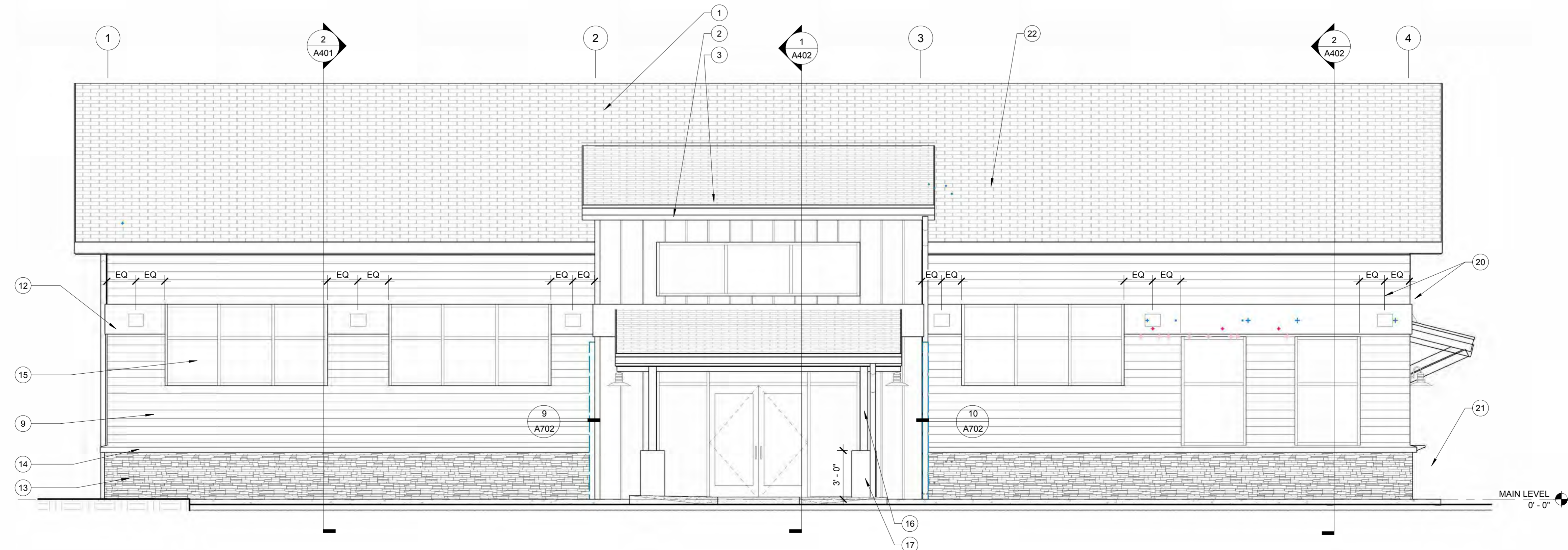
1 OFFICE AREA RCP
1/4" = 1'-0"

KEYNOTES:

1. ARCHITECTURAL COMPOSITE SHINGLES (ALGAE RESISTANT) - HUNTER GREEN
2. FIBER CEMENT FASCIA, COLOR TO MATCH MAIN ROOF COLOR.
3. PRE-FINISHED 5" x 5" BEVELED METAL GUTTER, COLOR TO MATCH MAIN ROOF COLOR.
4. PREFINISHED 4" DOWNSPOUT, COLOR TO MATCH MAIN ROOF COLOR.
5. MECHANICAL EQUIPMENT. SEE MECHANICAL DRAWINGS.
6. PLUMBING VENT, SEE PLUMBING DRAWINGS.
7. MECHANICAL EXHAUST (all relief, outside air intake and exhaust openings shall be provided with dampers in accordance with Mechanical Section C403.7.8)
8. MECHANICAL LOUVER - PRE-FINISHED COLOR TO MATCH ADJACENT SIDING. FLASHING OVER THE TOP EDGE TO MATCH LOUVER COLOR.
9. HORIZONTAL FIBER CEMENT SIDING W/ 4" EXPOSURE, COLOR: P-8
10. HORIZONTAL FIBER CEMENT SIDINGW/ 4" EXPOSURE, COLOR: P-7
11. BOARD & BATTEN FIBER CEMENT SIDING, COLOR: P-6.
12. 2" X 24" TRIM BOARD, COLOR: P-7 WITH PRE FINISHED FLASHING OVER THE TOP EDGE TO MATCH TRIM BOARD COLOR.
13. EVLOVE STONE VENEER: CAPITAL SKY STYLE PATTERN, COLOR: KODIAK MINE.
14. EVLOVE STONE VENEER SILL, COLOR:KODIAK MINE.
15. DOOR & WINDOW SCHEDULE & DETAILS.
16. WOOD STRUCTURAL COLUMNN.
17. DARK STAINED CONCRETE COLUMN. 3/4" CHAMFER.
18. SLIDING, DRIVE THROUGH WINDOW, SERVICE OPENING APPROX 19'X 34". SEE SPECIFICATION.
19. GOOSENECK WALL MOUNTED LIGHT
20. WALL MOUNTED, UP/DOWNLIGHT
21. 6" DIA, 4' TALL BOLLARD, SEE CIVIL FOR PLACEMENT & DETAILS.
22. SNOW GUARDS, SEE SPECIFICATION.
23. LIGHT FIXTURE, SEE ELECTRICAL



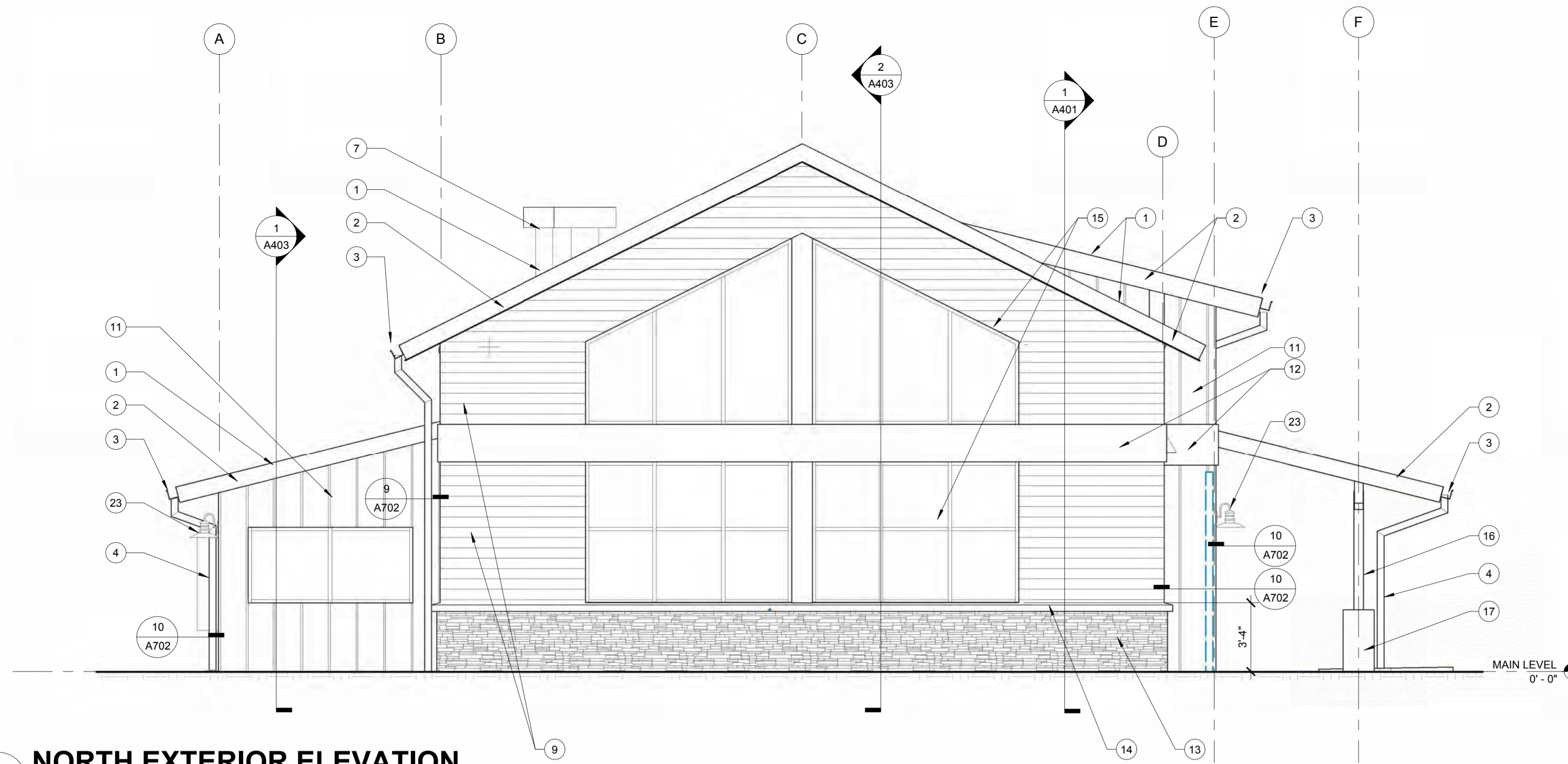
1 SOUTH EXTERIOR ELEVATION
1/4" = 1'-0"



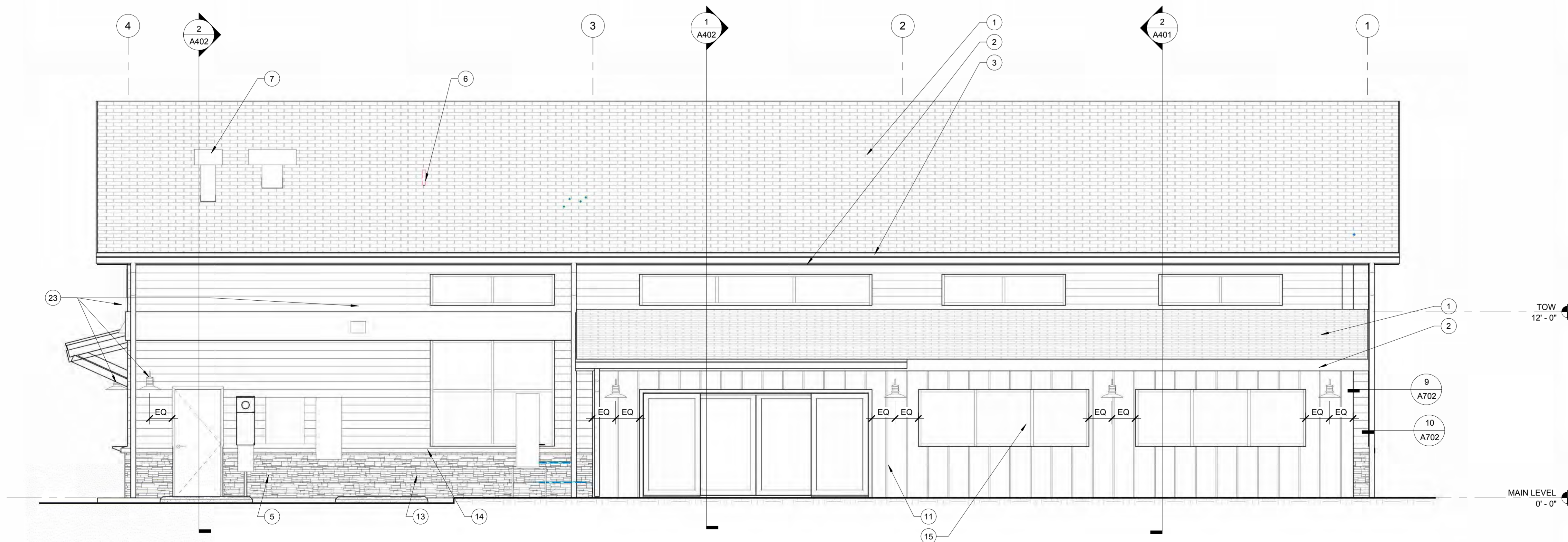
2 WEST EXTERIOR ELEVATION
1/4" = 1'-0"

KEYNOTES:

1. ARCHITECTURAL COMPOSITE SHINGLES (ALGAE RESISTANT) - HUNTER GREEN
2. FIBER CEMENT FASCIA, COLOR TO MATCH MAIN ROOF COLOR.
3. PRE-FINISHED 5" x 5" BEVELED METAL GUTTER, COLOR TO MATCH MAIN ROOF COLOR.
4. PREFINISHED 4" DOWNSPOUT, COLOR TO MATCH MAIN ROOF COLOR.
5. MECHANICAL EQUIPMENT, SEE MECHANICAL DRAWINGS.
6. PLUMBING VENT, SEE PLUMBING DRAWINGS.
7. MECHANICAL EXHAUST (all relief, outside air intake and exhaust openings shall be provided with dampers in accordance with Mechanical Section C403.7.8)
8. MECHANICAL LOUVER - PRE-FINISHED COLOR TO MATCH ADJACENT SIDING. FLASHING OVER THE TOP EDGE TO MATCH LOUVER COLOR.
9. HORIZONTAL FIBER CEMENT SIDING W/ 4" EXPOSURE, COLOR: P-8
10. HORIZONTAL FIBER CEMENT SIDING W/ 4" EXPOSURE, COLOR: P-7
11. BOARD & BATTEN FIBER CEMENT SIDING, COLOR: P-6.
12. 2" X 24" TRIM BOARD, COLOR: P-7 WITH PRE FINISHED FLASHING OVER THE TOP EDGE TO MATCH TRIM BOARD COLOR.
13. EVLOVE STONE VENEER: CAPITAL SKY STYLE PATTERN, COLOR: KODIAK MINE.
14. EVLOVE STONE VENEER SILL, COLOR: KODIAK MINE.
15. DOOR & WINDOW SCHEDULE & DETAILS.
16. WOOD STRUCTURAL COLUMN.
17. DARK STAINED CONCRETE COLUMN. 3/4" CHAMFER.
18. SLIDING, DRIVE THROUGH WINDOW, SERVICE OPENING APPROX 19'X 34", SEE SPECIFICATION.
19. GOOSENECK WALL MOUNTED LIGHT
20. WALL MOUNTED, UP/DOWNLIGHT
21. 6" DIA, 4' TALL BOLLARD, SEE CIVIL FOR PLACEMENT & DETAILS.
22. SNOW GUARDS, SEE SPECIFICATION.
23. LIGHT FIXTURE, SEE ELECTRICAL



1 NORTH EXTERIOR ELEVATION
1/4" = 1'-0"



2 EAST EXTERIOR ELEVATION
1/4" = 1'-0"

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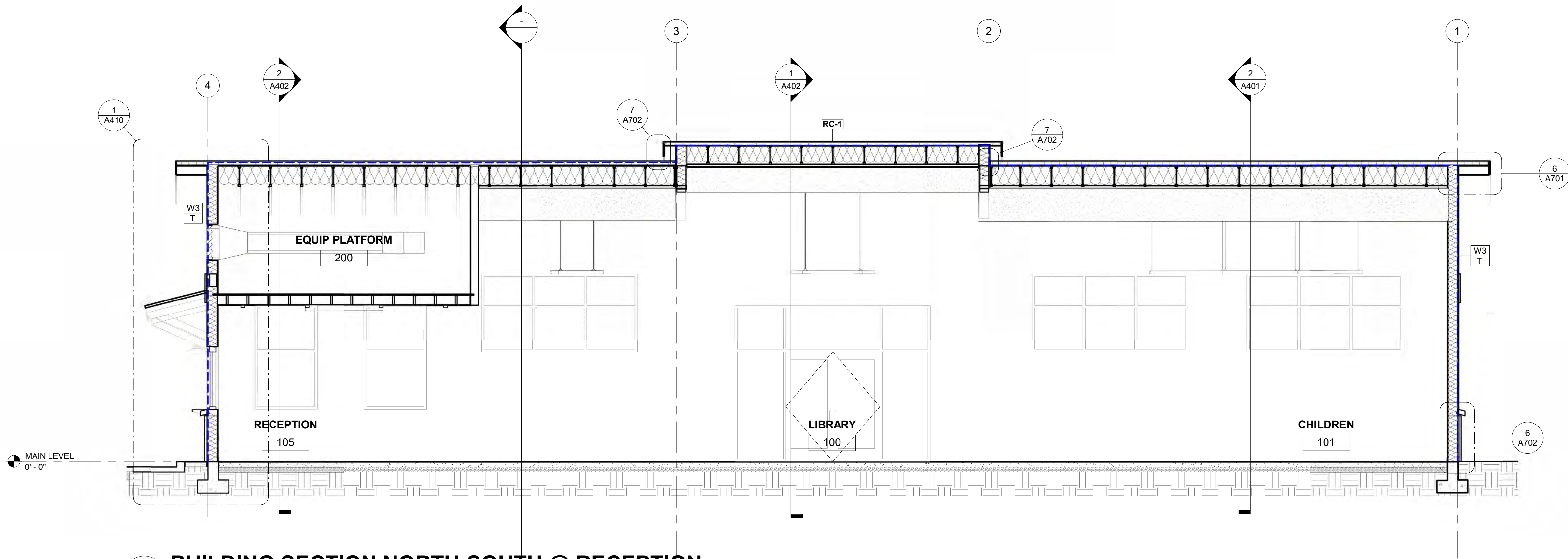
BUILDING SECTIONS

PROJECT # 22048
DATE 12/27/2023

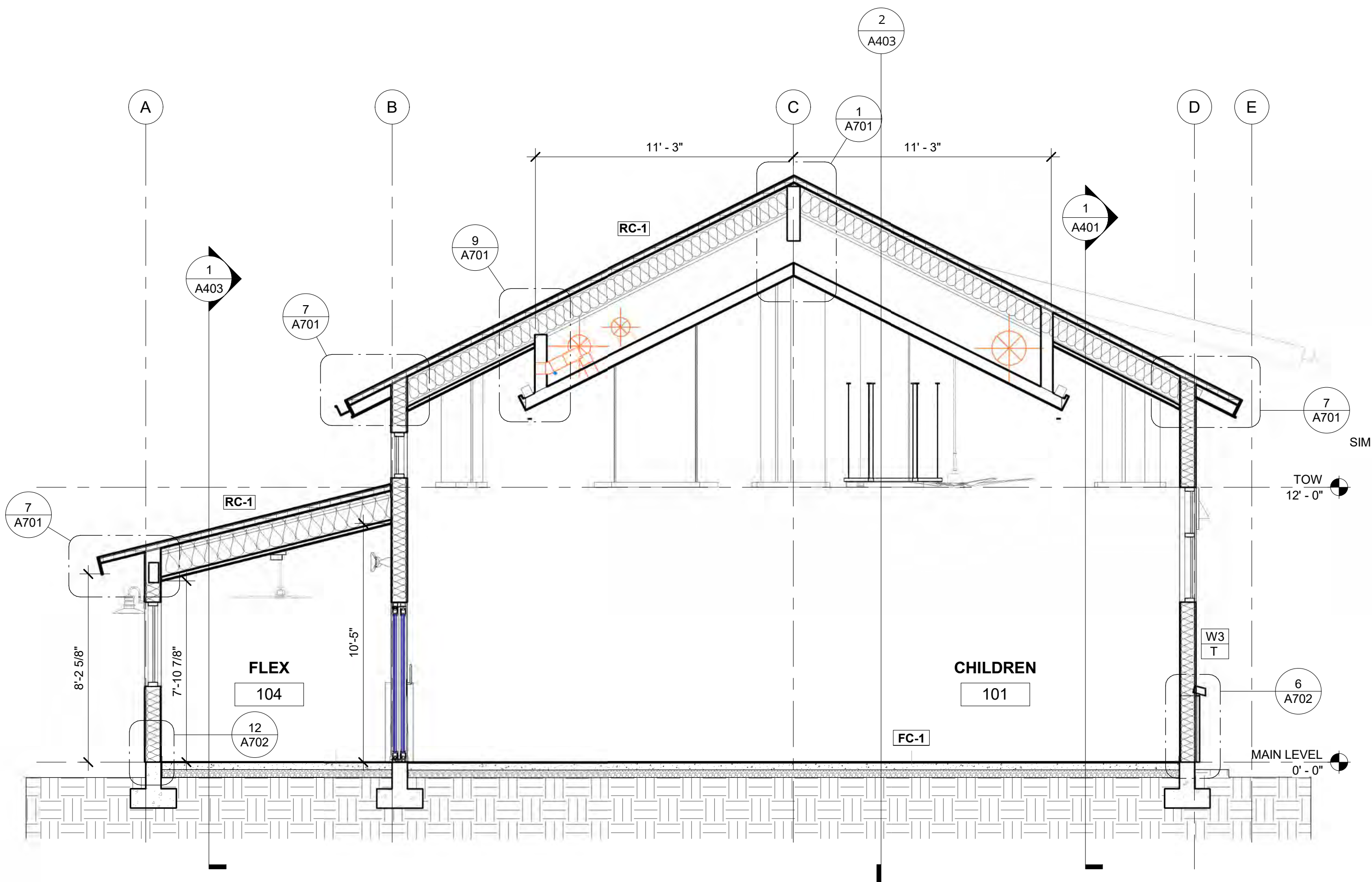
DATE	DESCRIPTION
2023.12.27	BID SET

A401

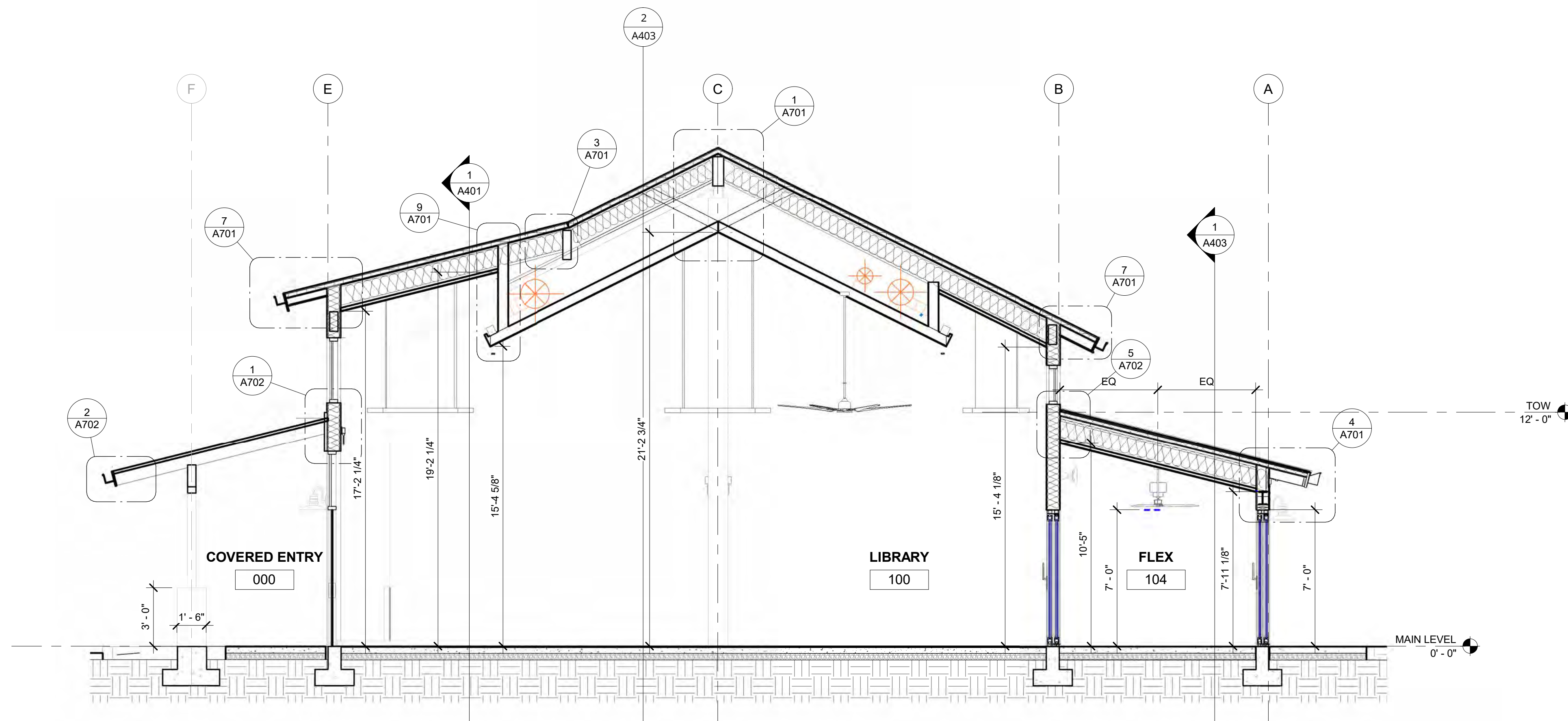
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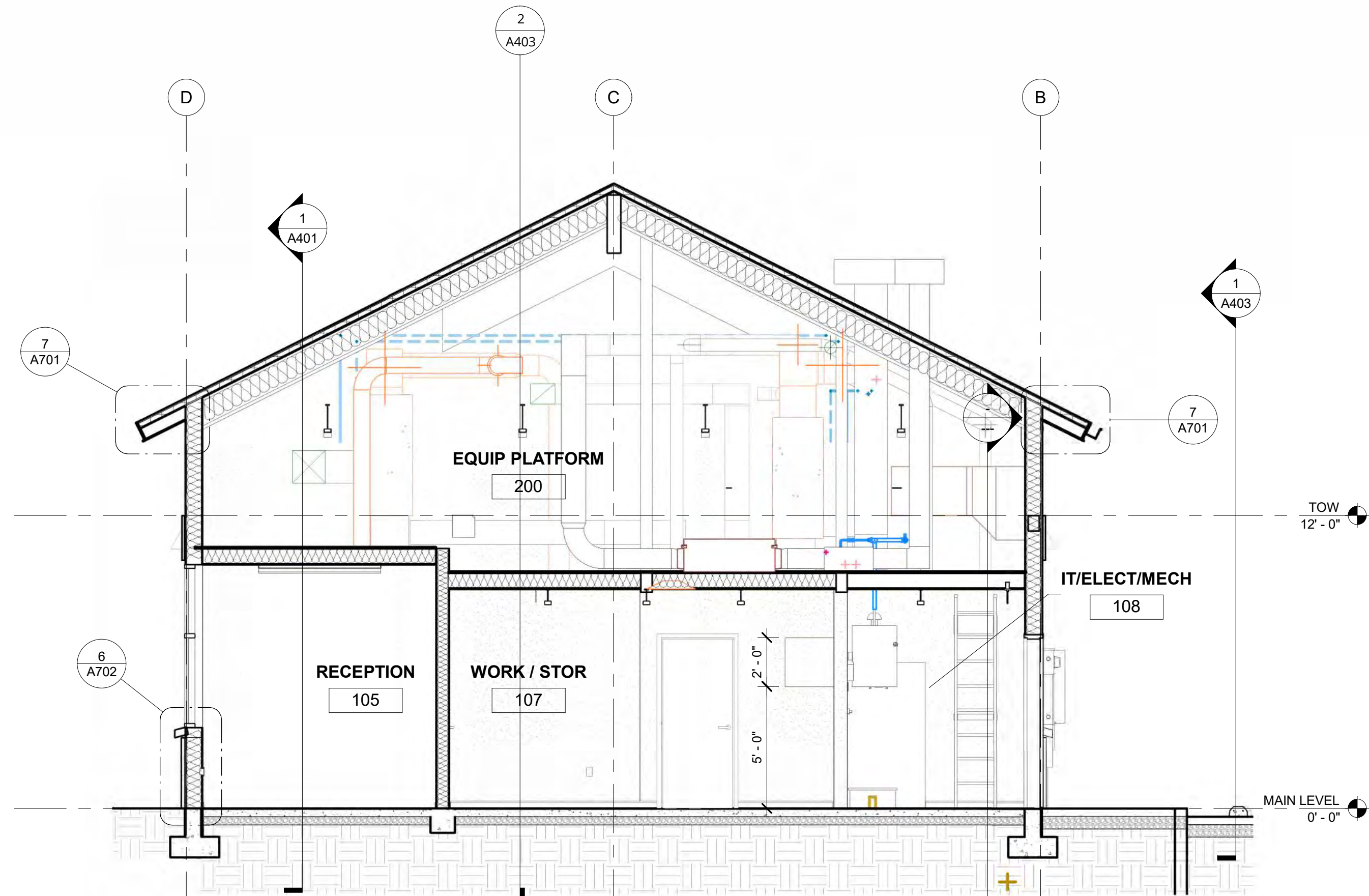
1 BUILDING SECTION NORTH-SOUTH @ RECEPTION
1/4" = 1'-0"



2 BUILDING SECTION EAST-WEST
1/4" = 1'-0"



1 BUILDING SECTION EAST-WEST @ ENTRY
1/4" = 1'-0"



2 BUILDING SECTION WEST-EAST @ MECH
1/4" = 1'-0"

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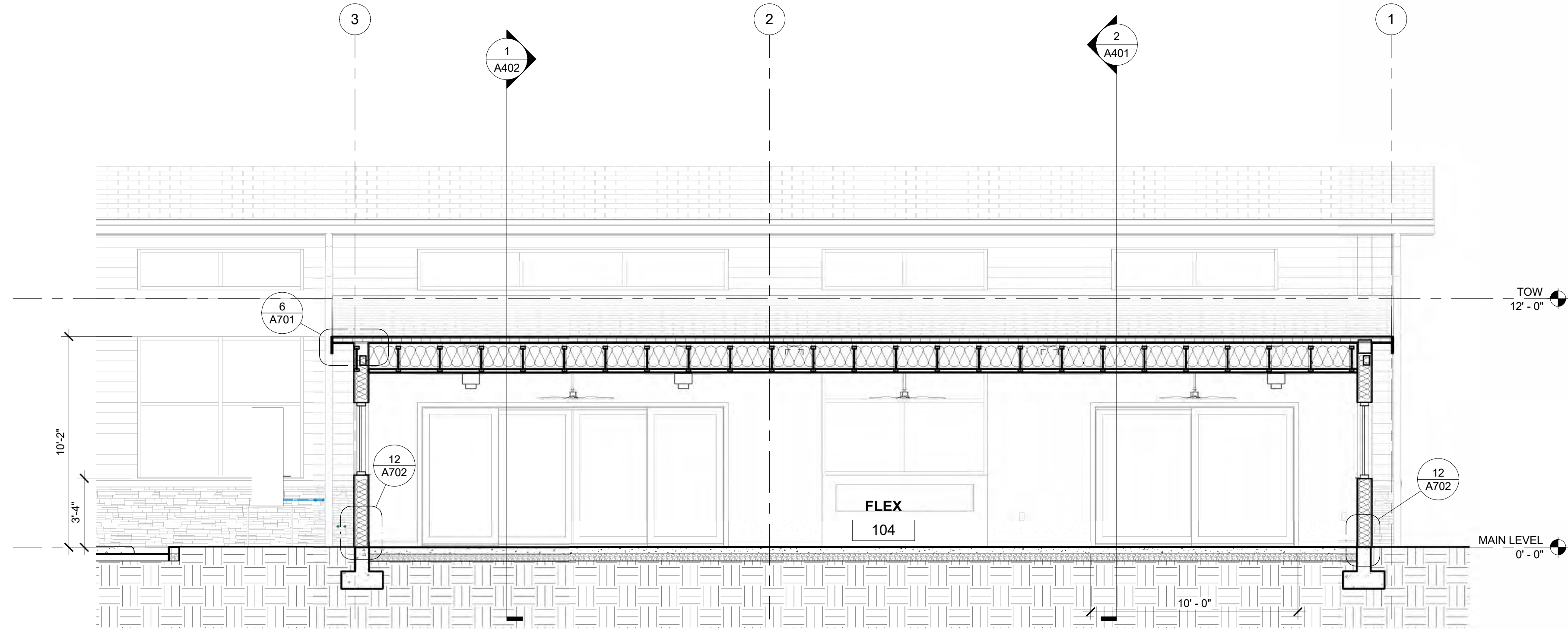
BUILDING SECTIONS

PROJECT # 22048
DATE 12/27/2023

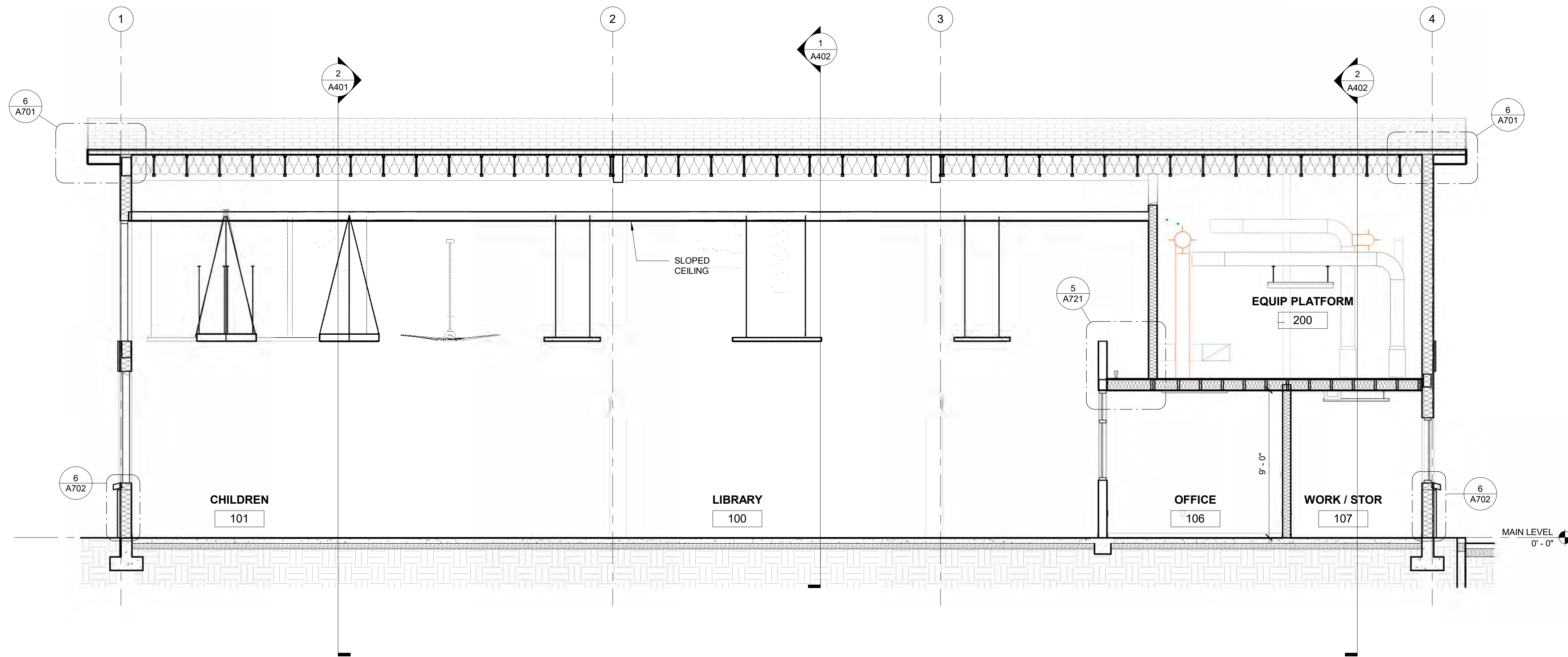
DATE	DESCRIPTION
2023.12.27	BID SET

A402

BID SET



1 BUILDING SECTION NORTH-SOUTH @ FLEX
1/4" = 1'-0"



2 BUILDING SECTION NORTH-SOUTH @ OFFICE
1/4" = 1'-0"

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WALL SECTIONS

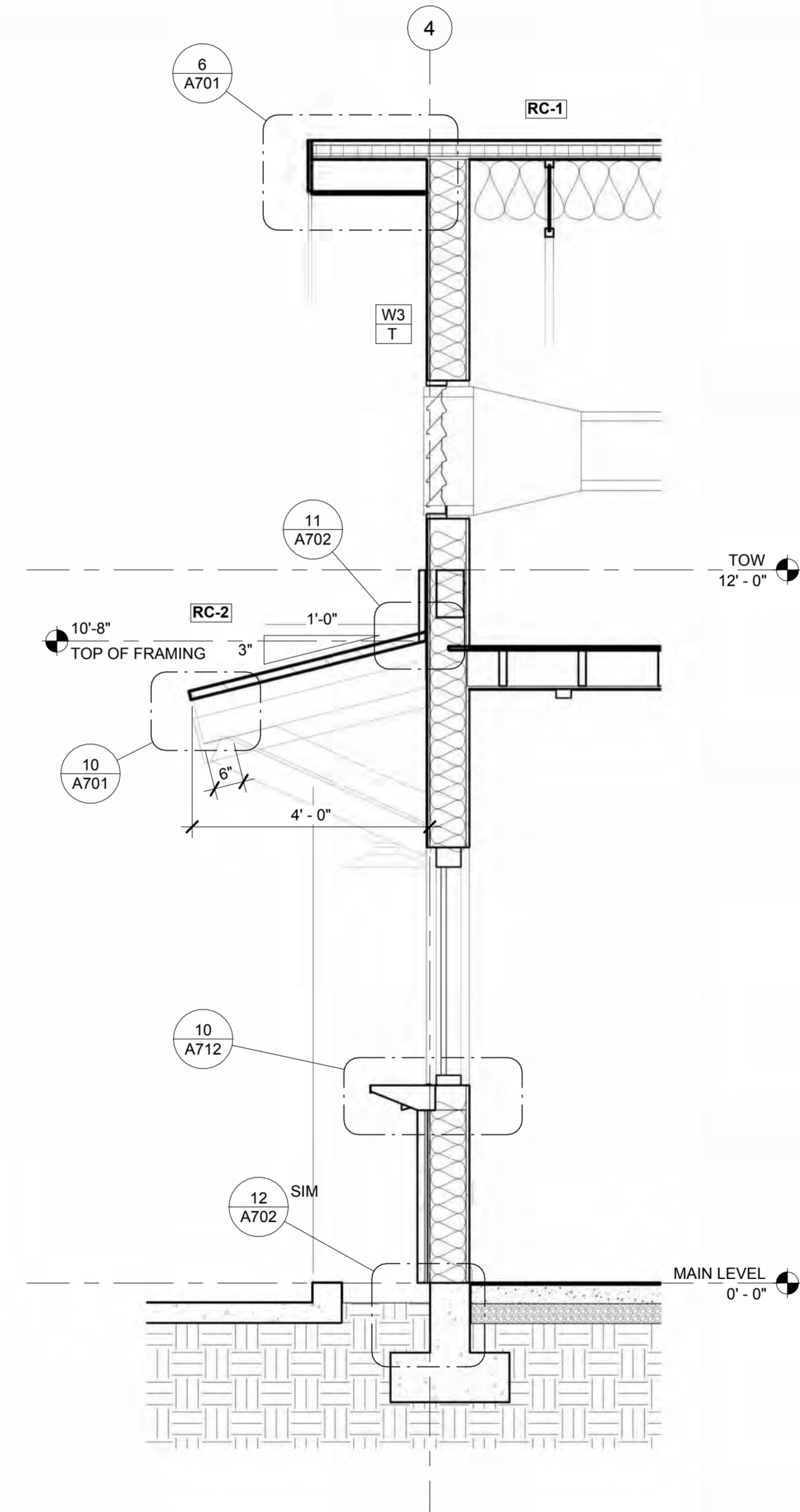
PROJECT # 22048

DATE 12/27/2023

DATE	DESCRIPTION
2023.12.27	BID SET

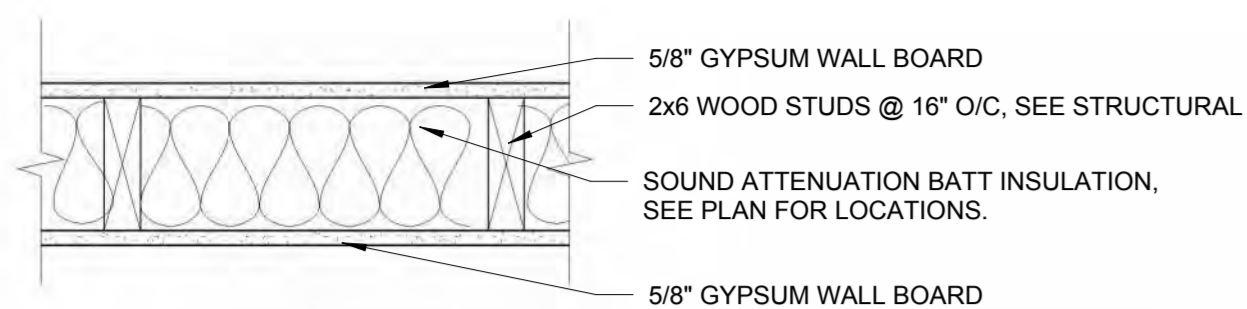
A410

BID SET



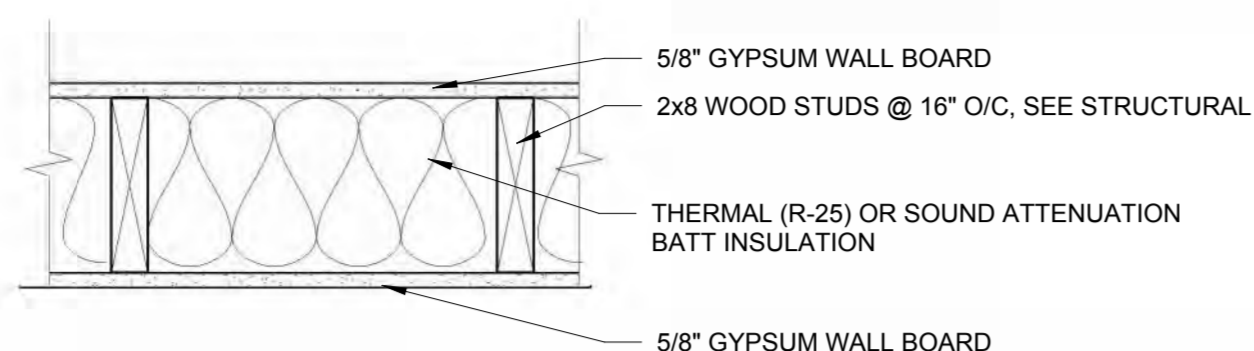
1 WALL SECTION DRIVE THRU WINDOW
1/2" = 1'-0"

WALL ASSEMBLIES



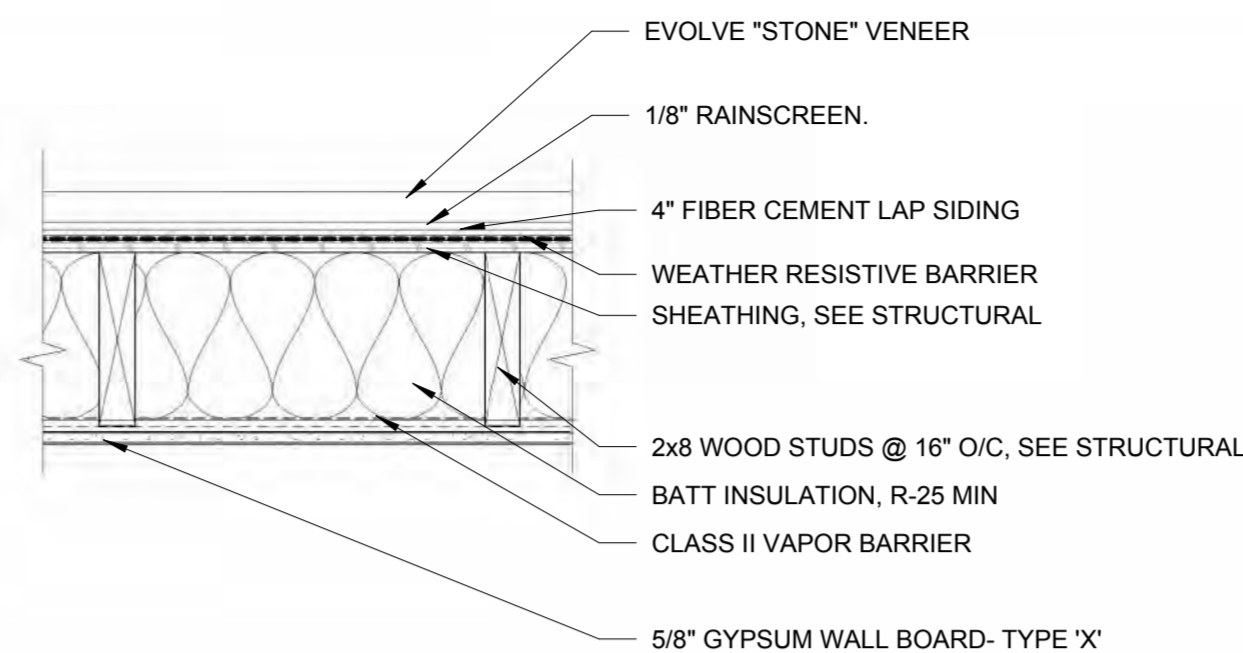
W-1

FIRE RATING / SOURCE:	0 HR
STC RATING / SOURCE:	N/A
R-VALUE:	N/A
U-FACTOR:	N/A



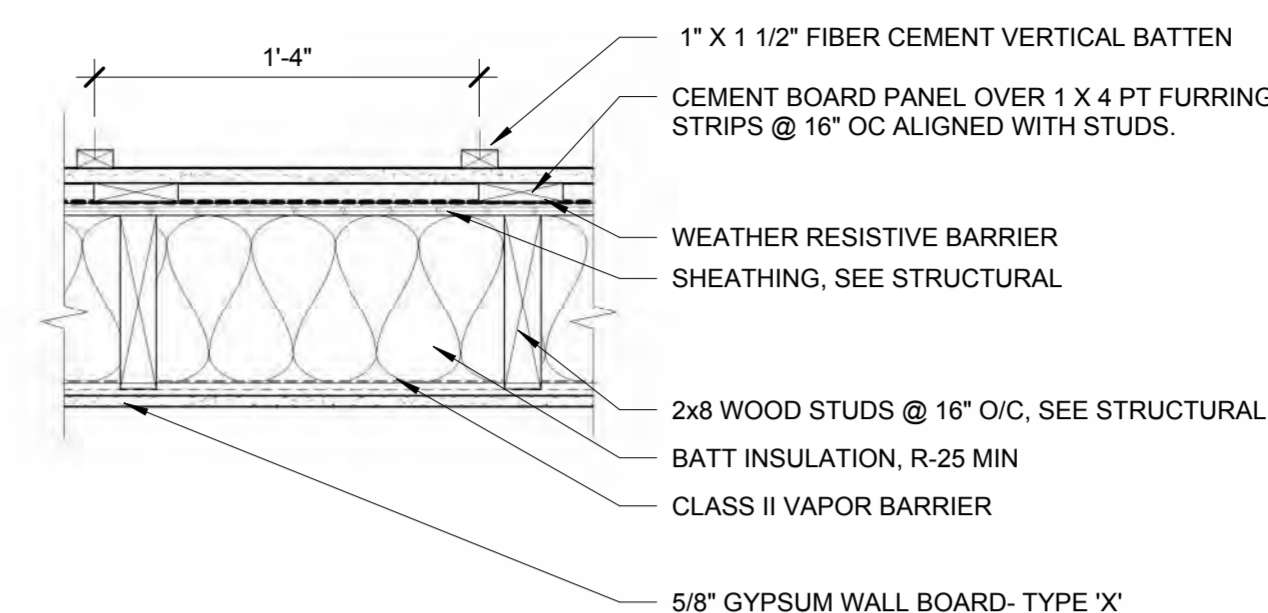
W-2

FIRE RATING / SOURCE:	0 HR
STC RATING / SOURCE:	N/A
R-VALUE:	U-FACTOR: 0.038



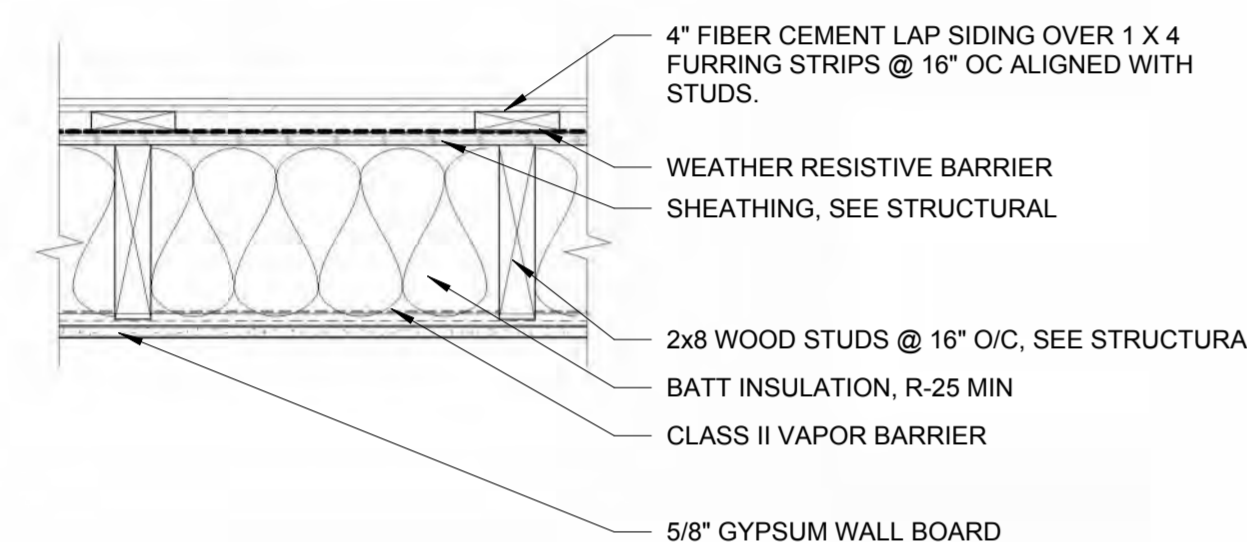
W-3

FIRE RATING / SOURCE:	0 HR
STC RATING / SOURCE:	N/A
R-VALUE:	U-FACTOR: 0.04



W-4

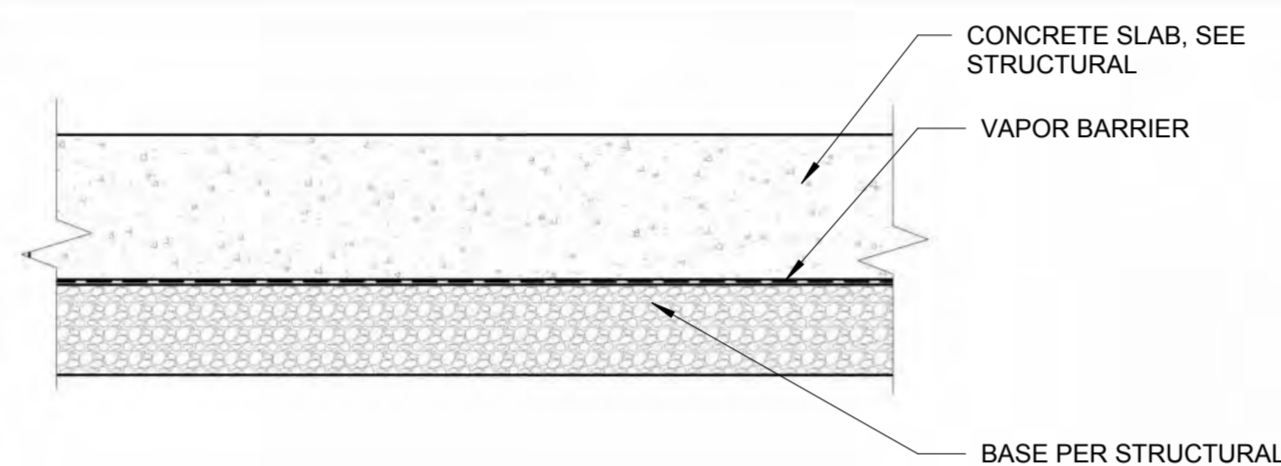
FIRE RATING / SOURCE:	0 HR
STC RATING / SOURCE:	N/A
R-VALUE:	U-FACTOR: 0.04



W-5

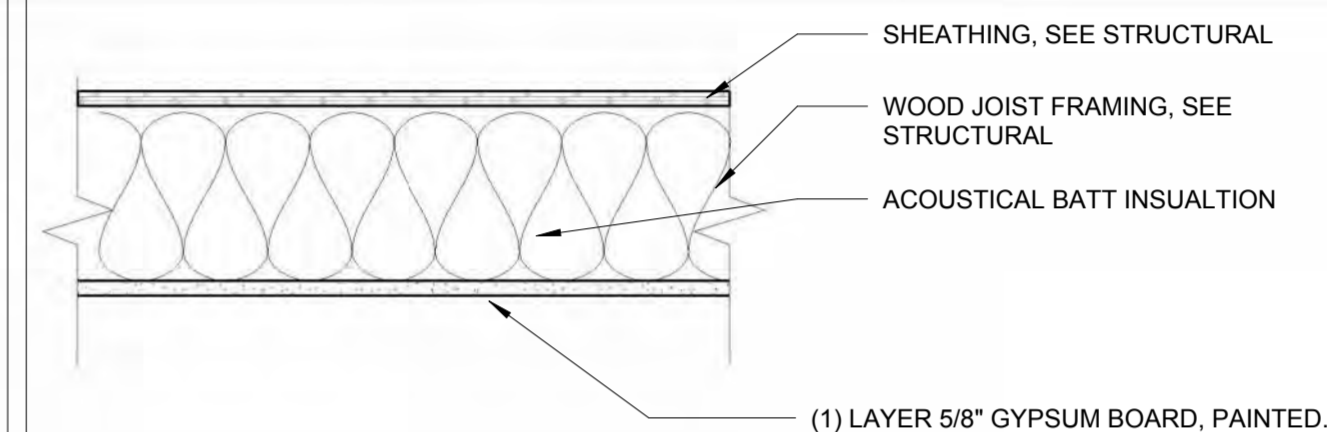
FIRE RATING / SOURCE:	0 HR
STC RATING / SOURCE:	N/A
R-VALUE:	U-FACTOR: 0.04

FLOOR ASSEMBLIES



FC-1

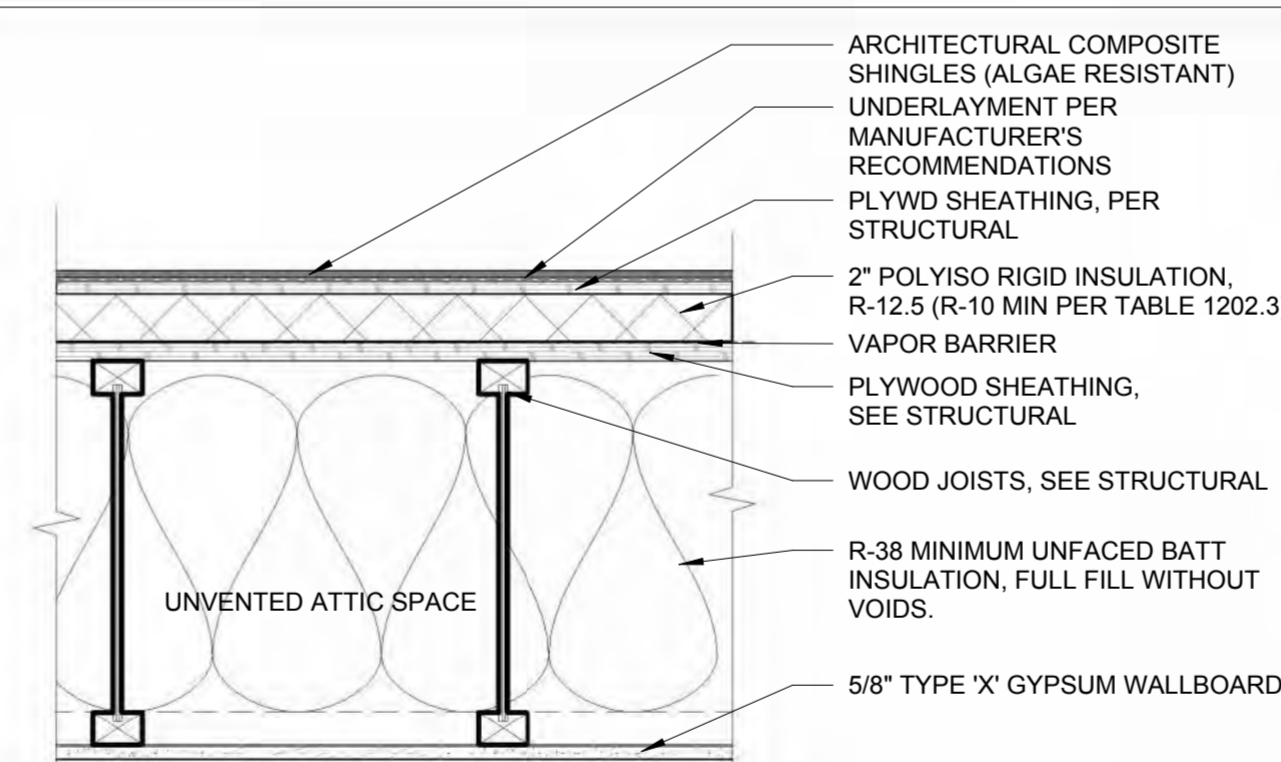
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STC RATING / SOURCE:	
IIC RATING / SOURCE:	
R-VALUE:	U-FACTOR:



FC-2

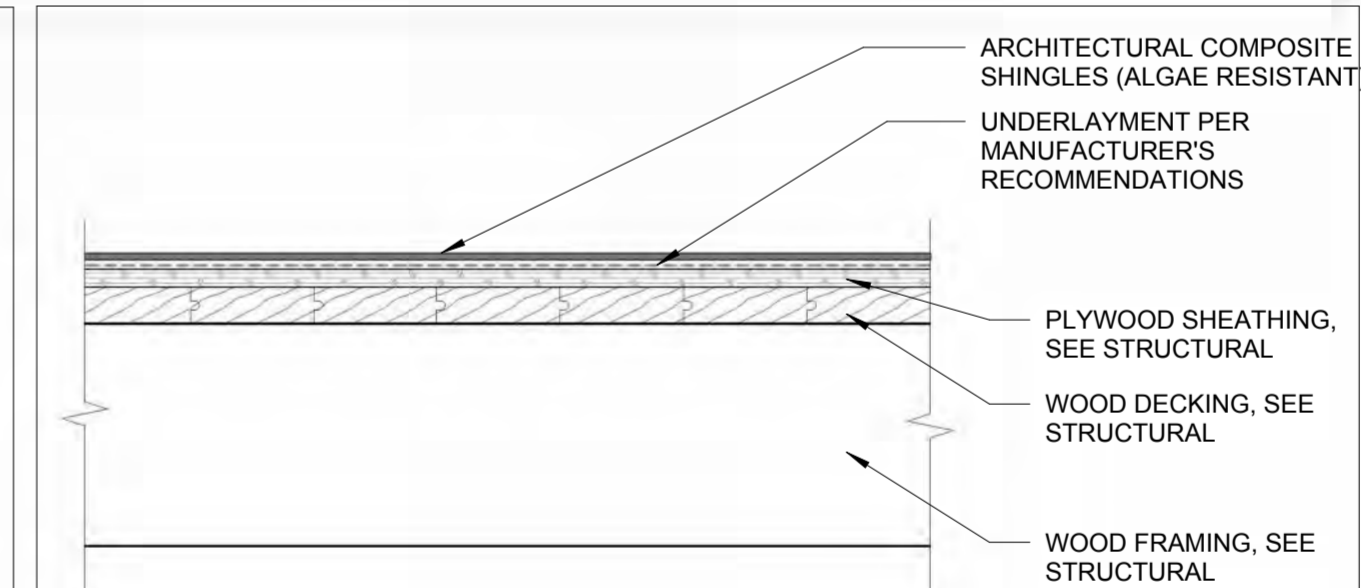
FIRE RATING / SOURCE:	N/A
STC RATING / SOURCE:	
IIC RATING / SOURCE:	
R-VALUE:	N/A
U-FACTOR:	

ROOF ASSEMBLIES



RC-1

FIRE RATING / SOURCE:	N/A
STC RATING / SOURCE:	N/A
R-VALUE:	U-FACTOR: 0.019



RC-2

FIRE RATING / SOURCE:	
STC RATING / SOURCE:	
R-VALUE:	U-FACTOR:



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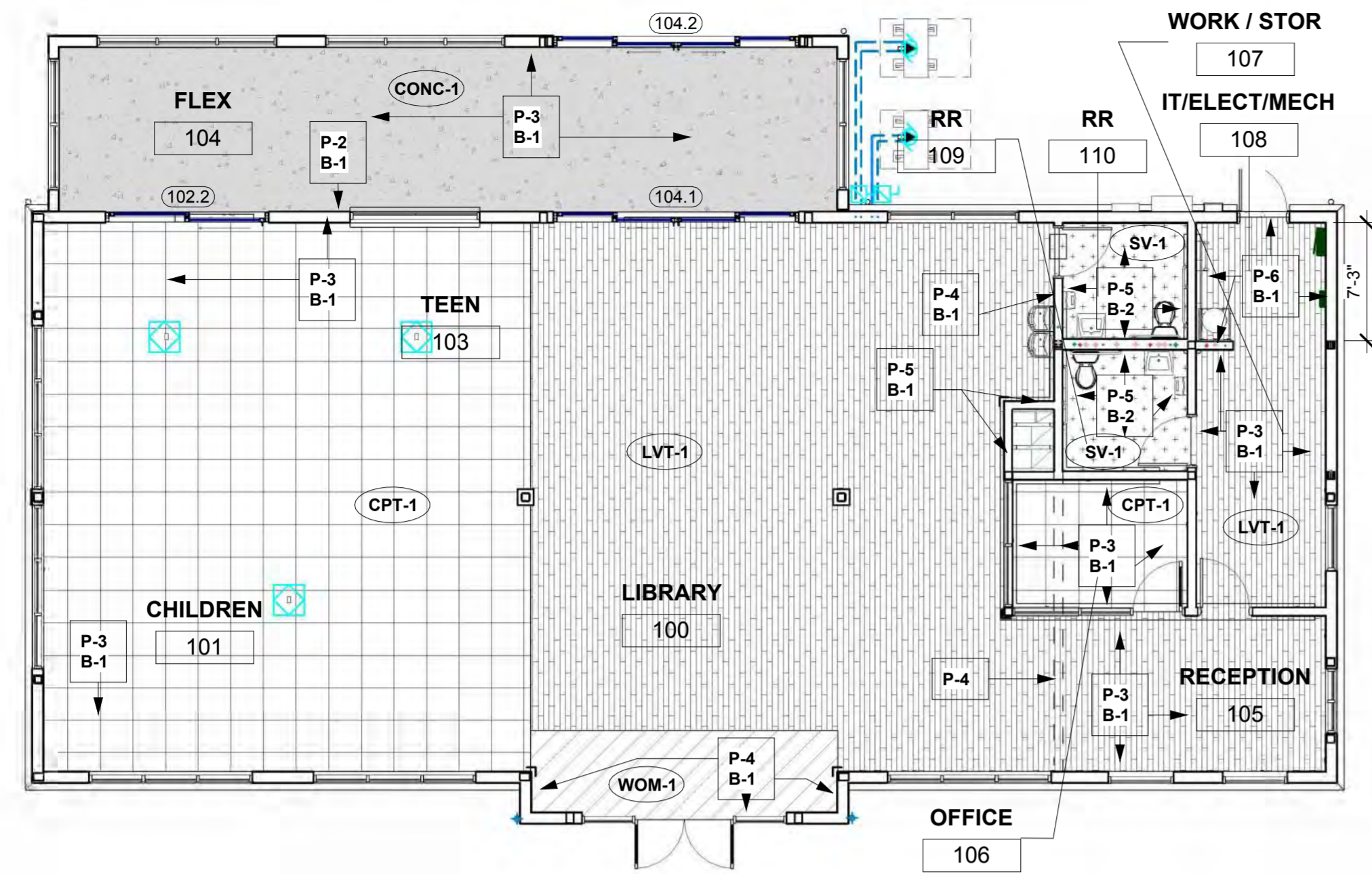
WALL, CEILING & ROOF ASSEMBLIES

PROJECT # 22048
DATE 12/27/2023

DATE	DESCRIPTION
2023.12.27	BID SET

A500

BID SET



ABRV.	MANUFACTURER	STYLE/FINISH	COLOR	SIZE	INSTALLATION METHOD	REMARKS
CONC-1	DAVIS COLORS	STAINED & SEALED	KAILUA 677			3 SEASON
CPT-1	SHAW CONTRACT	SKETCH TILE 59591	CANOPY 33327	24"X24"	MONOLITHIC CARPET TILE	SHADOWS COLLECTION
LVT-1	SHAW CONTRACT	0454V	TRAIL 00256	6"X48"	BRICK	TERRAIN II 20 MIL
WOM-1	SHAW CONTRACT	STEPPIN OUT/BON JOUR II TILE 5T032	PORTABELLA 31761	24"X24"	QUARTER TURN CARPET TILE	FRONT ENTRY
B-1	FLEXCO		077 DRIFTWOOD	4", 1/8"		RUBBER BASE
B-2		INTEGRAL COVE W/ STRIP		6"		INTEGRAL COVE
P-1	SHERWIN WILLIAMS	FLAT ACRYLIC	SW 7007 CEILING BRIGHT WHITE			CEILING
P-2	SHERWIN WILLIAMS	SATIN	SW 6386 NAPERVY			TYP. INT. WALL
P-3	SHERWIN WILLIAMS	SATIN	SW 6387 COMPATIBLE CREAM			ACCENT
P-4	SHERWIN WILLIAMS	SATIN	SW 6424 TANSY GREEN			ACCENT
P-5	SHERWIN WILLIAMS	SEMI-GLOSS	SW 6388 GOLDEN FLEECE			RRs
P-6	SHERWIN WILLIAMS	SATIN	SW 7012 CREAMY			EXT. ACCENT
P-7	SHERWIN WILLIAMS	SATIN	SW 6108 LATTE			EXTERIOR
P-8	SHERWIN WILLIAMS	SATIN	SW6109 HOPSACK			EXTERIOR
PL-4	FORMICA	MATTE	8957-58 BUBBLE ORGANIC	60" TALL	WAINSCOT	MOP SINK WALLS
PL-5	FORMICA	MATTE	9480-58 SALVAGE PLANKED ELM	48" TALL	WAINSCOT	RR
SV-1	ARMSTRONG	ACCOLADE PLUS	TBD			RRs - COVE BASE
TL-1					WALL, SEE INTERIOR ELEVATIONS	FIREPLACE

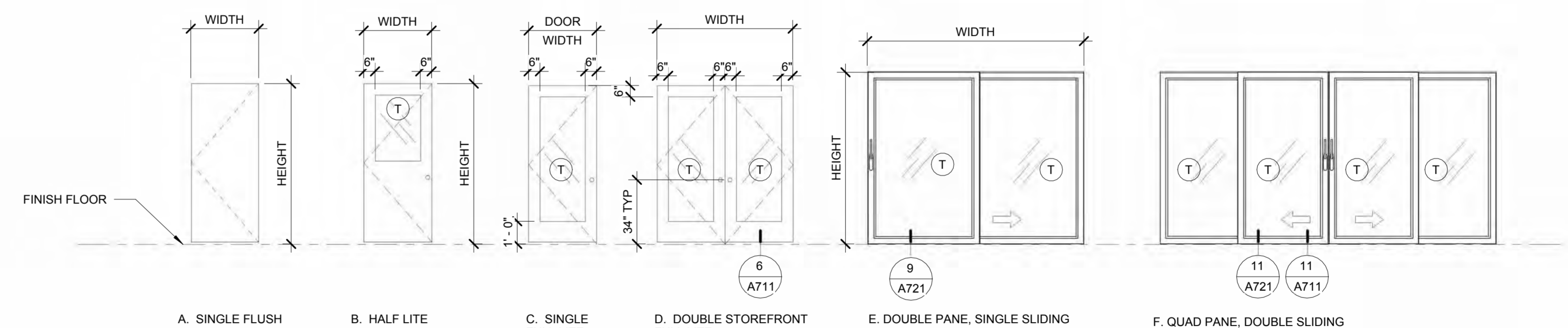


- TRANSITIONS OF FLOORING FINISHES/MATERIAL TO OCCUR UNDER CENTERLINE OF DOOR UNLESS NOTED OTHERWISE.
- ALIGN ALL FINISH/MATERIAL TRANSITIONS AND JOINTS WITHIN THE PATTERN AND IN RELATION TO ADJACENT ARCHITECTURAL ELEMENTS.
- EXTEND FLOORING FINISHES UNDER HORIZONTAL WORK SURFACES.

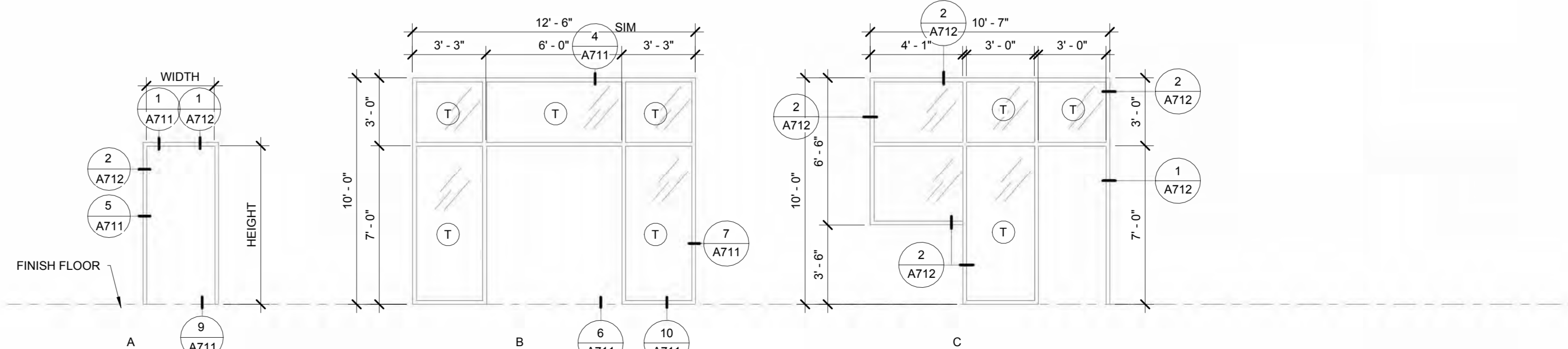
SURFACE TYPE	PAINT FINISH
PAINTED WOOD TRIM	SEMI-GLOSS ACRYLIC
PAINTED METAL DOORS/FRAMES	SEMI-GLOSS ALKYD
PAINTED WOOD DOORS/FRAMES	SEMI-GLOSS ACRYLIC

ADDITIONAL FINISHES
 WINDOW BLINDS - SEE SPECIFICATION
 CORNER GUARDS - SEE SPECIFICATION

Mark	Width	Height	Thickness	Door Type	Door Material	Door Finish	Frame Type	Frame Material	Frame Finish	Hardware	Remarks
100	6' - 0"	7' - 0"	0' - 1 3/4"	D	SF	FF	B	SF	FF	01	U=0.6 MAX
102.2	10' - 0"	7' - 0"		E	SF	FF	A	SF	FF	03	U=0.4 MAX DOUBLE PANE ARGON FILLED
104.1	15' - 0"	7' - 0"		F	SF	FF	A	SF	FF	03	U=0.4 MAX DOUBLE PANE ARGON FILLED
104.2	15' - 0"	7' - 0"		F	SF	FF	A	SF	FF	03	U=0.4 MAX DOUBLE PANE ARGON FILLED
106	3' - 0"	7' - 0"	0' - 2"	C	SC	ST	C	HM	P	04	INTERIOR
107	3' - 0"	7' - 0"	0' - 1 3/4"	B	SC	ST	A	HM	P	05	INTERIOR
108	3' - 0"	7' - 0"	0' - 1 3/4"	A	HM	P	A	HM	P	06	U=.37 MAX
109	3' - 0"	7' - 0"	0' - 1 3/4"	A	SC	ST	A	HM	P	07	INTERIOR
110	3' - 0"	7' - 0"	0' - 1 3/4"	A	SC	ST	A	HM	P	07	INTERIOR



DOOR TYPES



DOOR FRAME TYPES

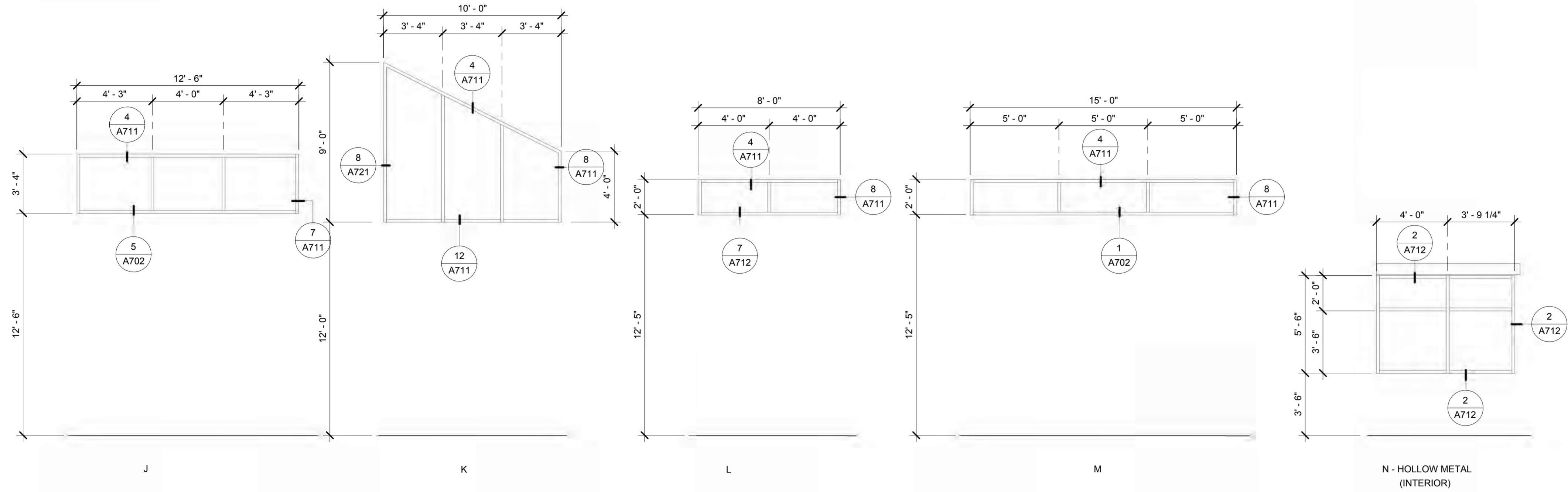
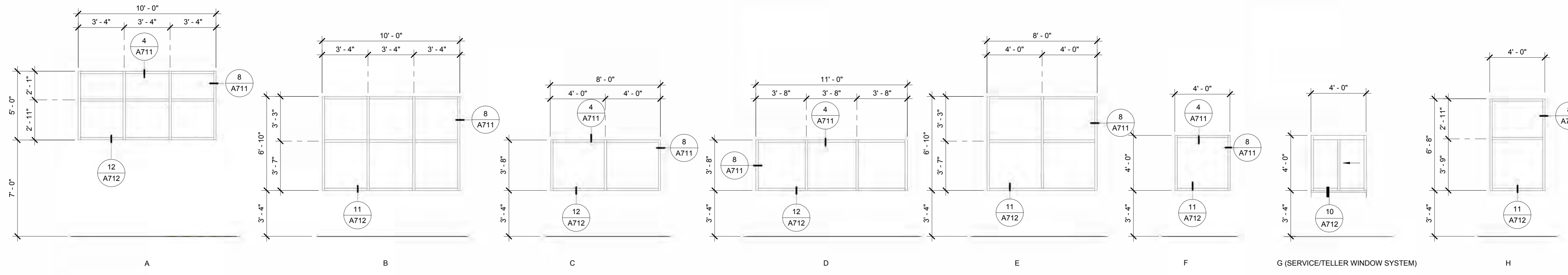
LEGEND

- HM = HOLLOW METAL
- SC = SOLID CORE WOOD
- SF = STOREFRONT, SEE STOREFRONT TYPES
- T = TEMPERED
- SS = STAINLESS STEEL
- FF = FACTORY FINISH: BLACK ANODIZED
- ST = STAIN
- P = PAINT

DOOR NOTES:

- UNDERCUT ALL STANDARD INTERIOR DOORS TO CLEAR FLOOR BY 1/4".
- ALL DOOR HARDWARE IN ACCORDANCE WITH ANSII 117.1
- FURNISH (3) SILENCERS FOR SINGLE ACTING DOORS. DO NOT FURNISH SILENCERS FOR DOORS WITH WEATHERSTRIPPING, SEALS, OR GASKETS.
- PROVIDE SIGN AT MAIN EXIT DOOR PER IBC 1008.1.9.3, 2.2 STATING "THIS DOOR TO REMAIN UNLOCKED WHEN THE BUILDING IS OCCUPIED"
- SEE SPECIFICATION FOR DOOR HARDWARE GROUPS
- CONTRACTOR TO PROVIDE ALL NECESSARY HARDWARE FOR COMPLETE INSTALLATION AND PROPER FUNCTION

1 FLOOR PLAN WALL & FLOOR FINISHES
 1/8" = 1'-0"



WINDOW TYPES



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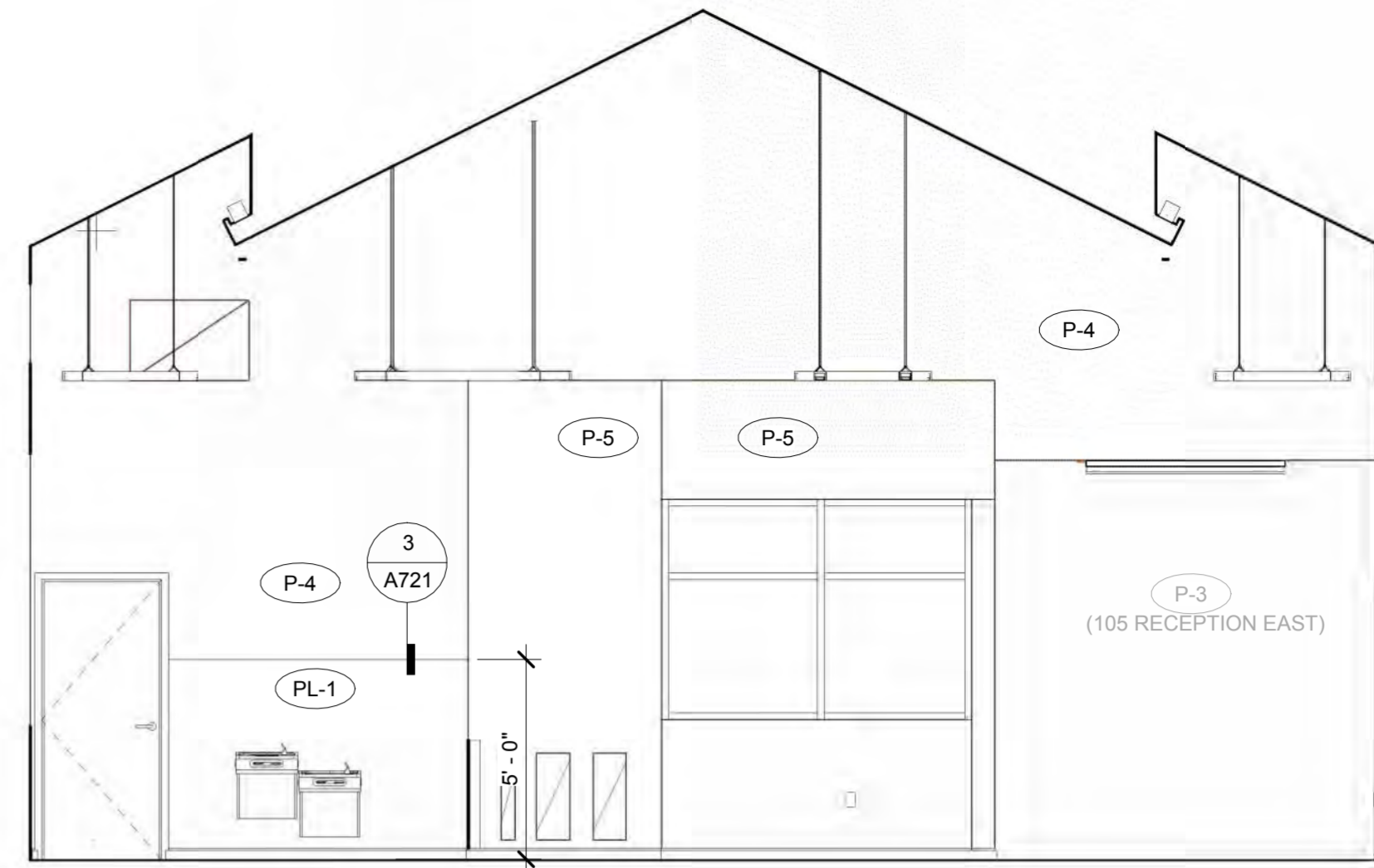
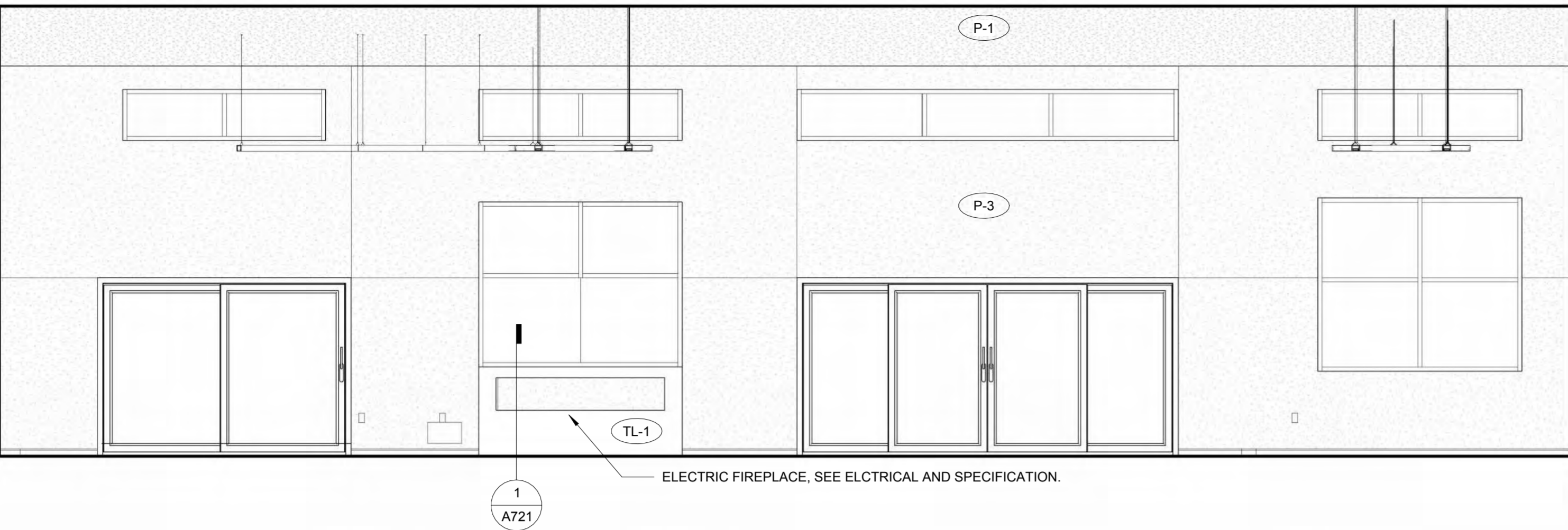
WINDOW TYPES

PROJECT #	22048
DATE	12/27/2023
DATE	DESCRIPTION
2023.12.27	BID SET

FENESTRATION NOTES

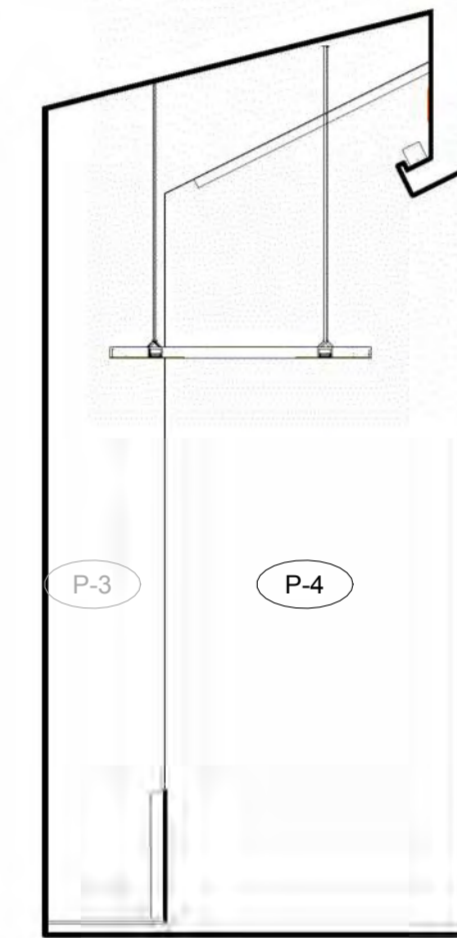
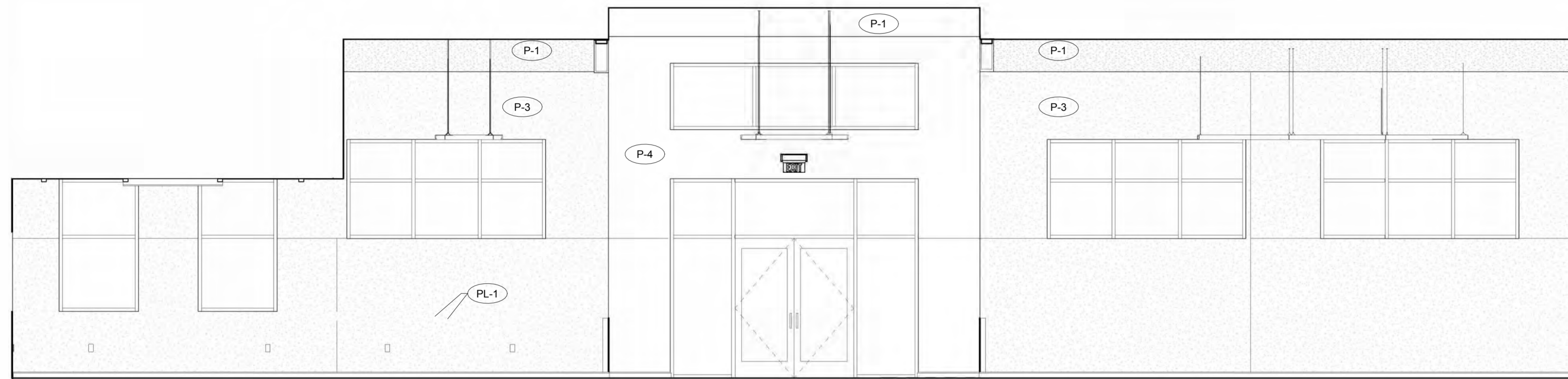
- FENESTRATION PRODUCTS SHALL BE LABELED WITH NFRC U-FACTOR, SHGC, VT & LEAKAGE RATING. OR IF PRODUCTS DO NOT HAVE AN NFRC RATING, UTILIZE APPLICABLE CHAPTER 3 DEFAULT VALUES.
- EXTERIOR FENESTRATION REQUIRED TO HAVE LOW E COATING TO BE DOUBLE PANED, ARGON FILLED WITH A THERMAL BREAK. U = 0.41 MAX.
- NFRC RATING CERTIFICATES REQUIRED FOR PROJECT CLOSE OUT DOCUMENTATION.
- MARVIN MODERN FIBERGLASS UNLESS NOTED OTHERWISE.

A512
BID SET



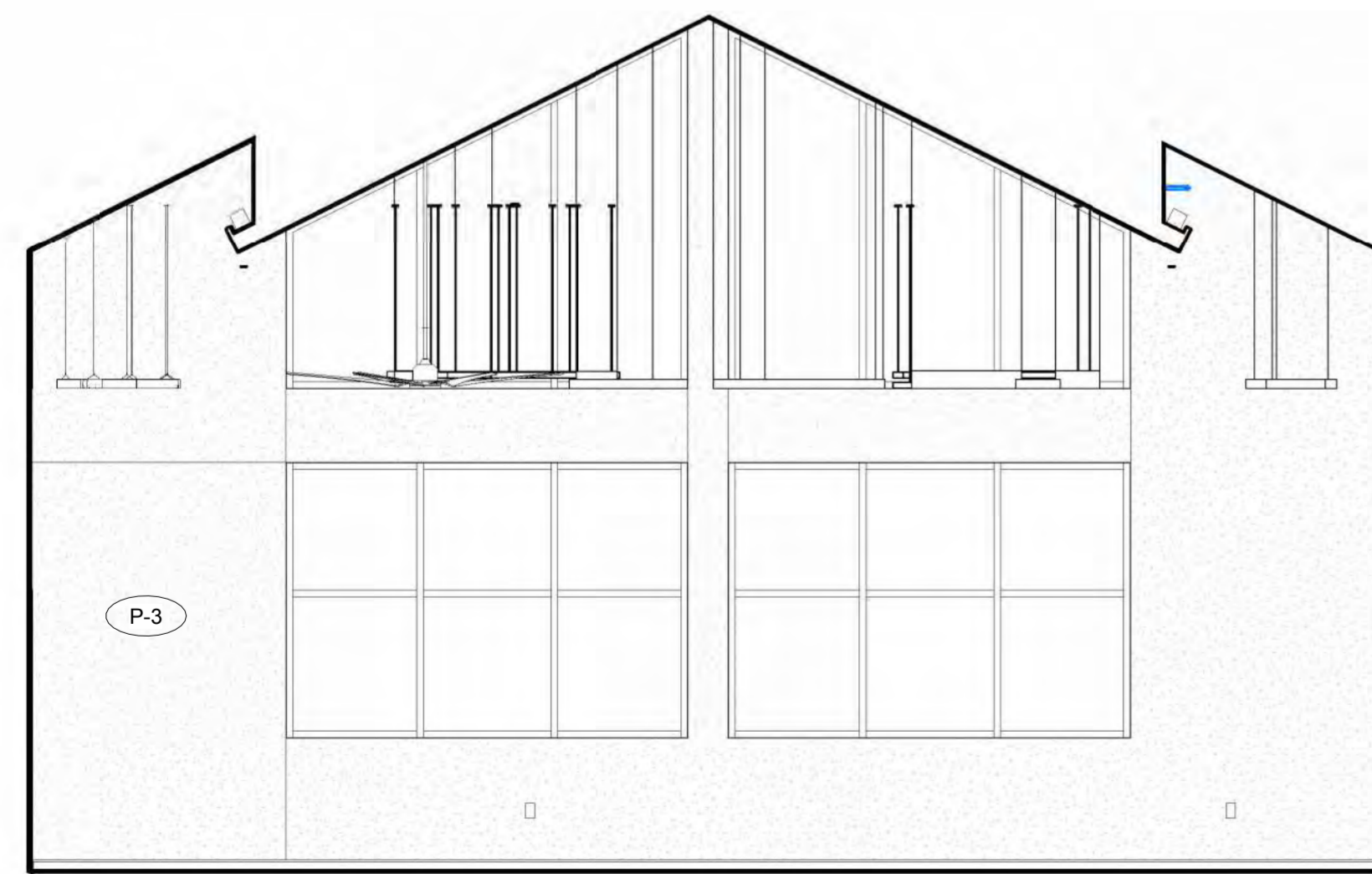
1 100 LIBRARY - EAST
1/4" = 1'-0"

2 100 LIBRARY - SOUTH
1/4" = 1'-0"



3 100 LIBRARY - WEST
1/4" = 1'-0"

4 100 LIBRARY - ENTRY
1/4" = 1'-0"



5 100 LIBRARY - NORTH
1/4" = 1'-0"

INTERIOR
ELEVATIONS

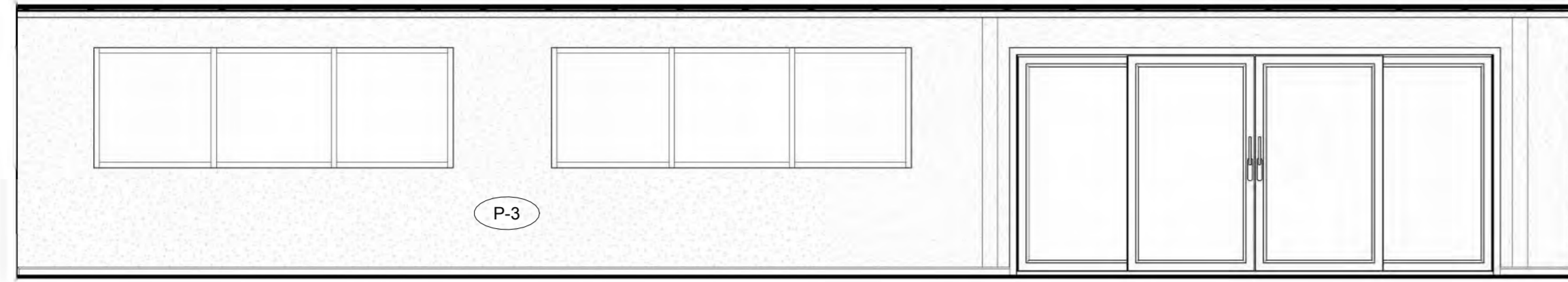
PROJECT # 22048

DATE 12/27/2023

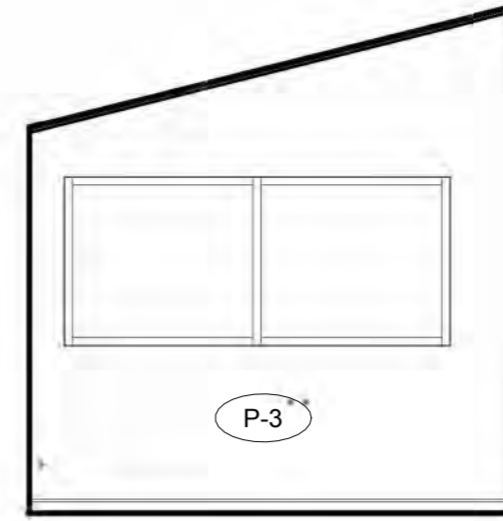
DATE	DESCRIPTION
2023.12.27	BID SET

A631

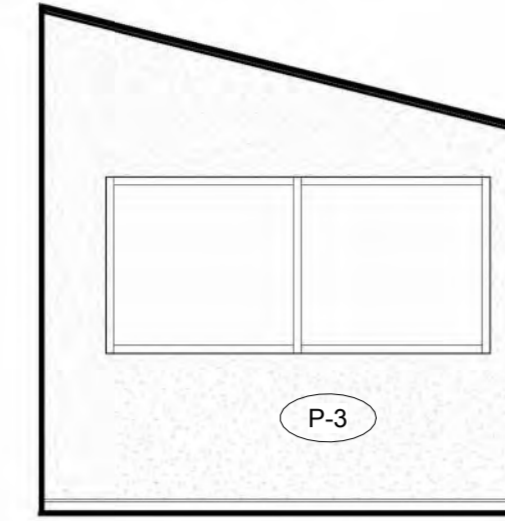
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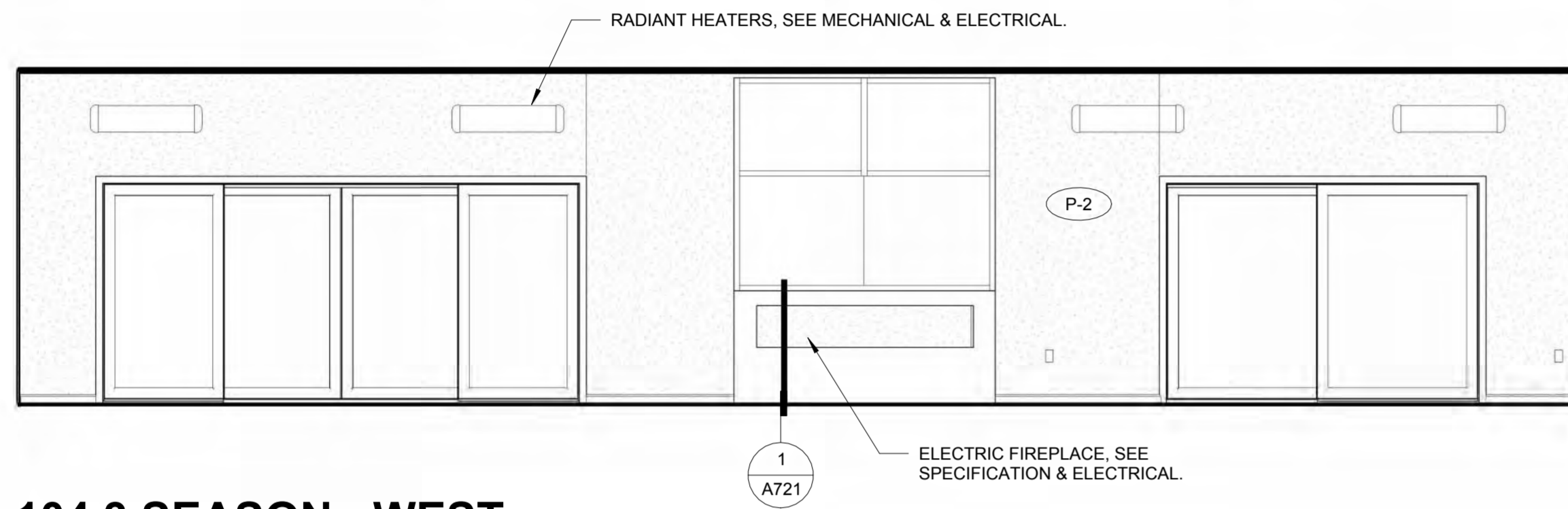
1 104 3 SEASON - EAST
1/4" = 1'-0"



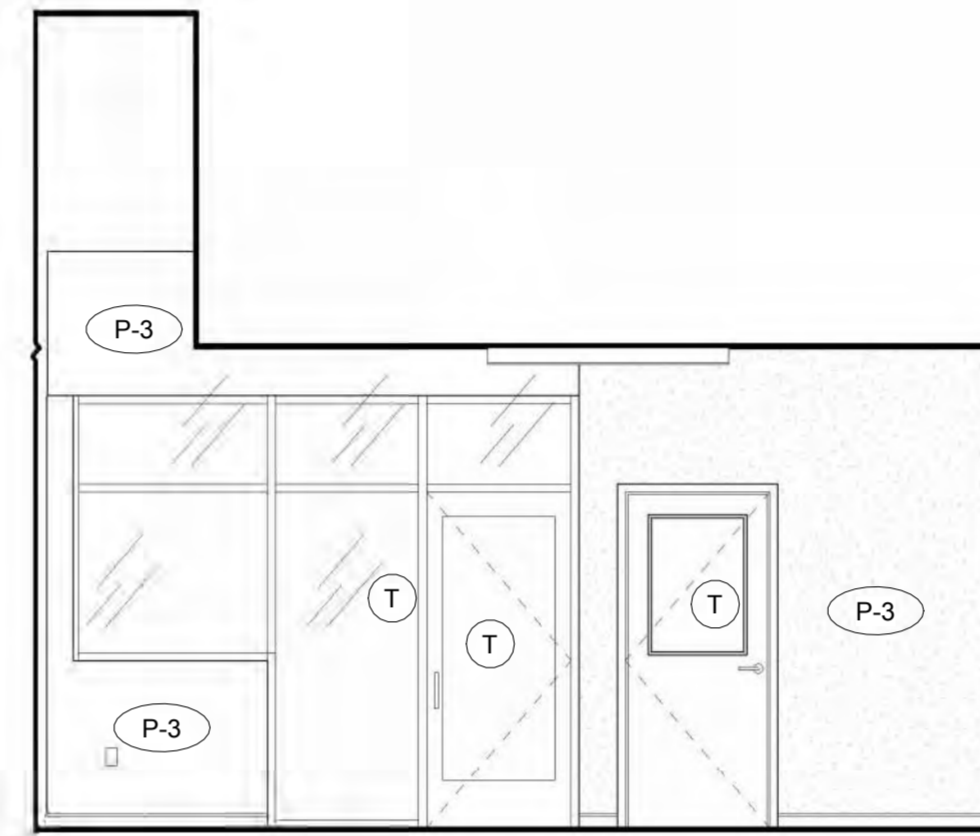
2 104 3 SEASON - SOUTH
1/4" = 1'-0"



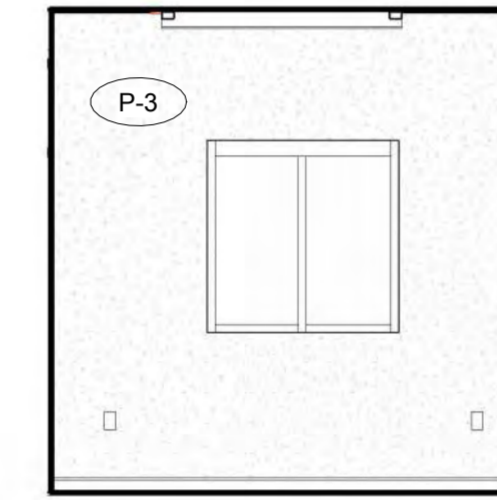
3 104 3 SEASON - NORTH
1/4" = 1'-0"



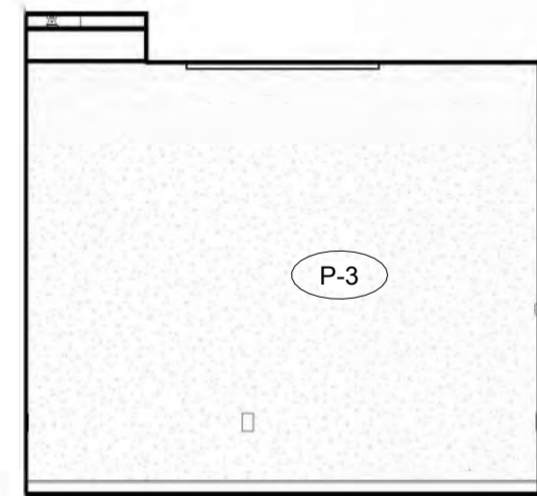
4 104 3 SEASON - WEST
1/4" = 1'-0"



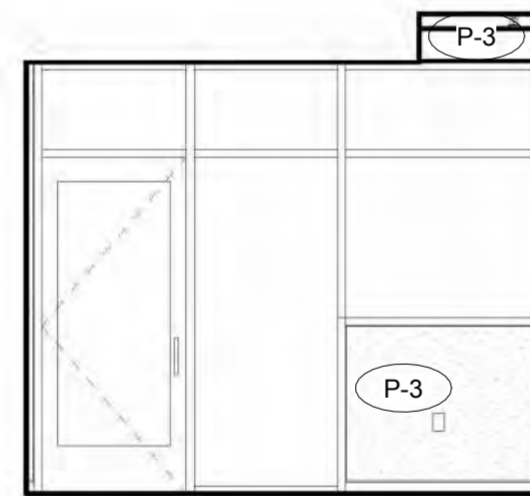
5 105 RECEPTION - EAST
1/4" = 1'-0"



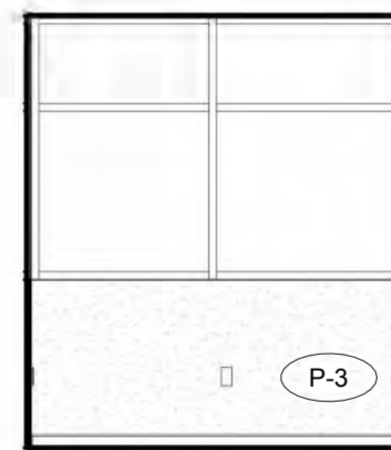
7 105 RECEPTION - SOUTH
1/4" = 1'-0"



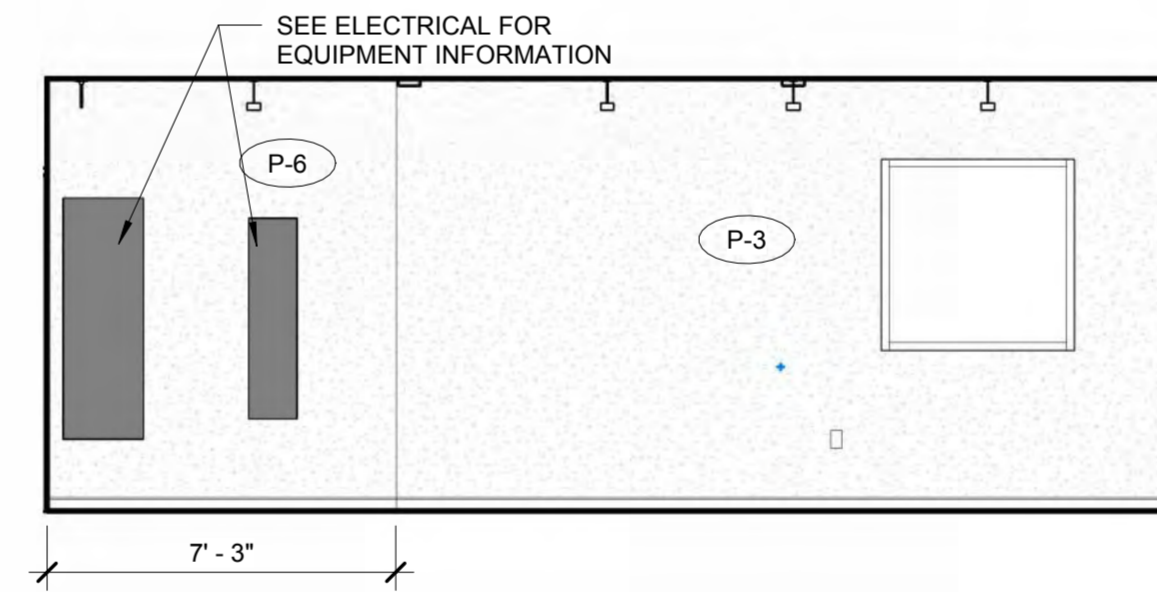
8 106 OFFICE - EAST
1/4" = 1'-0"



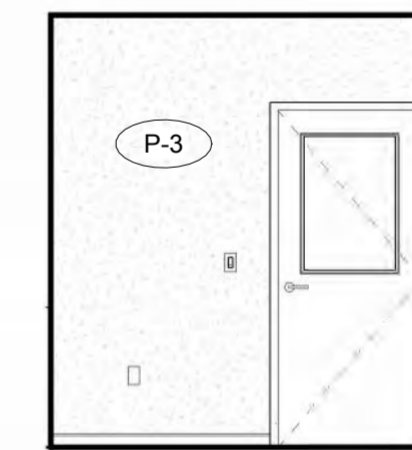
9 106 OFFICE - WEST
1/4" = 1'-0"



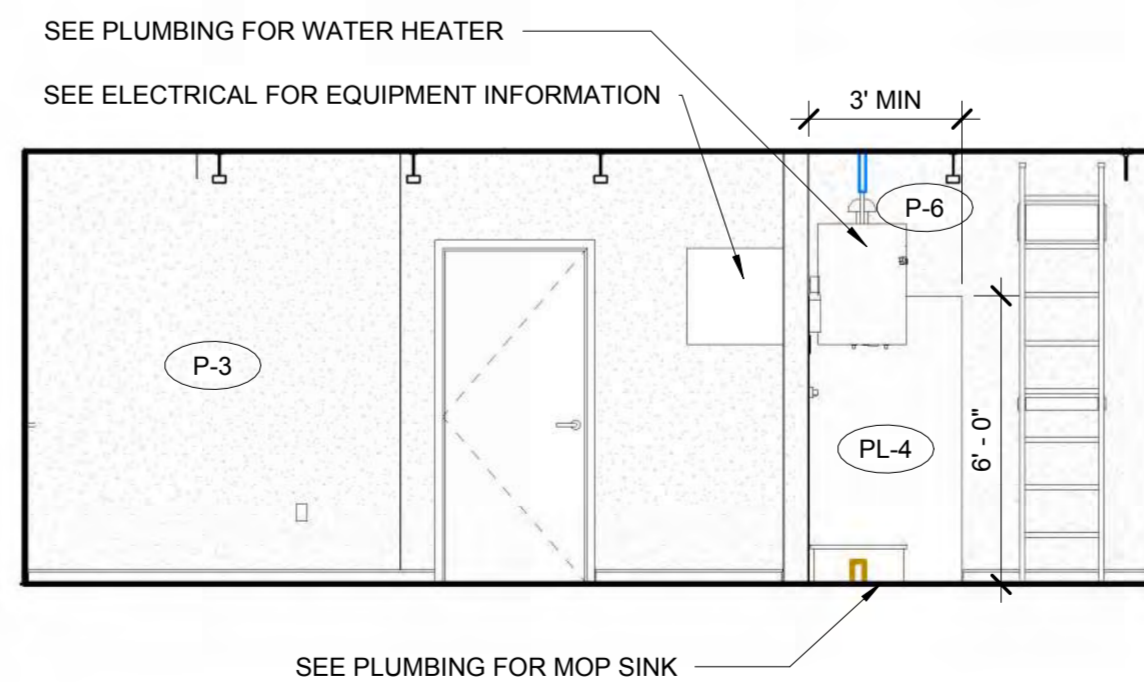
10 106 OFFICE - NORTH
1/4" = 1'-0"



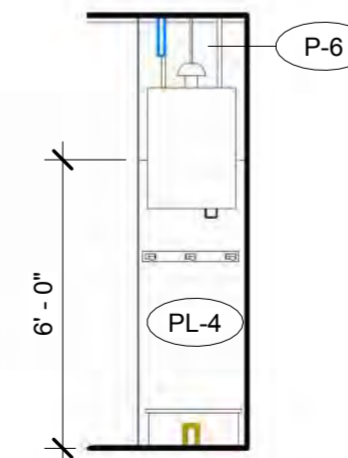
11 107 WORK RM - SOUTH
1/4" = 1'-0"



12 107 WORK RM - WEST
1/4" = 1'-0"



13 107 WORK RM - NORTH
1/4" = 1'-0"



14 108 WORK IT/ELECT/MECH - WEST
1/4" = 1'-0"

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INTERIOR
ELEVATIONS

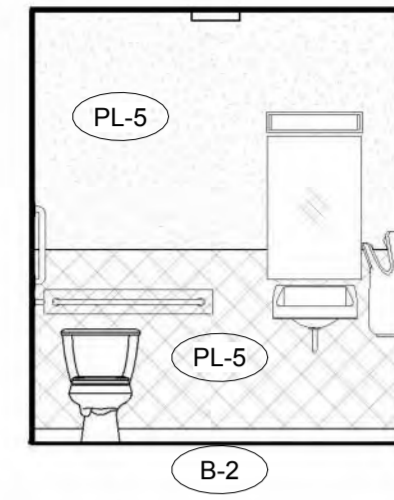
PROJECT # 22048

DATE 12/27/2023

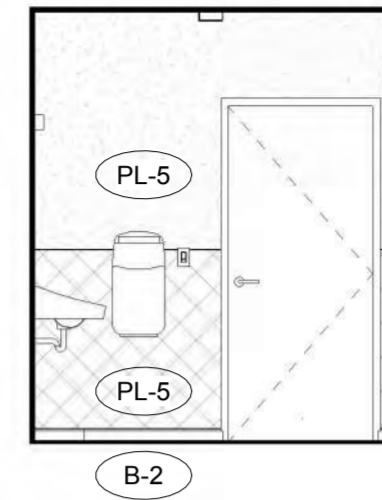
DATE	DESCRIPTION
2023.12.27	BID SET

A632

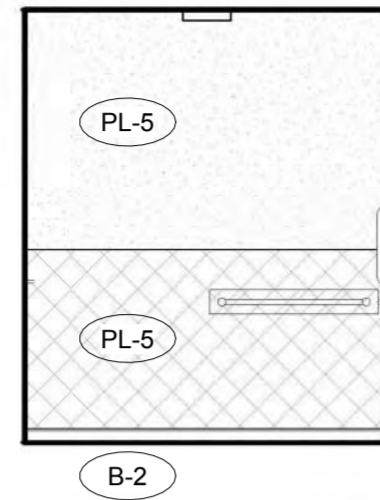
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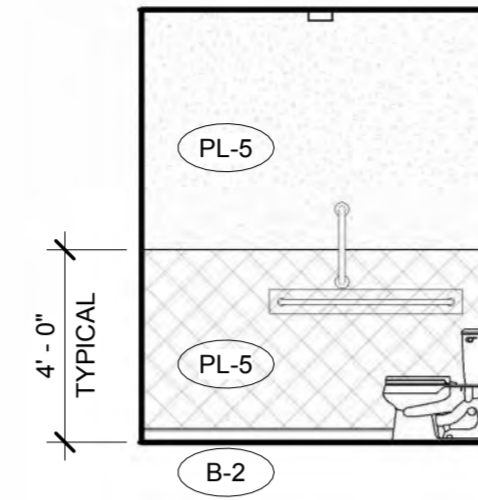
1 109 RR - EAST
1/4" = 1'-0"



2 109 RR - SOUTH
1/4" = 1'-0"



3 109 RR - WEST
1/4" = 1'-0"

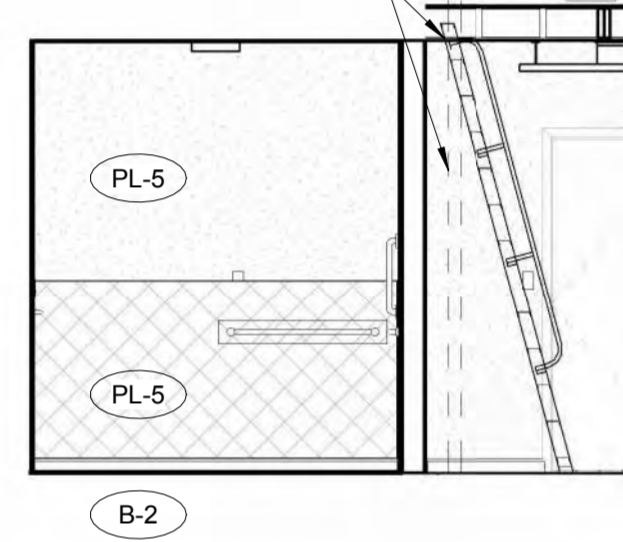


4 109 RR - NORTH
1/4" = 1'-0"

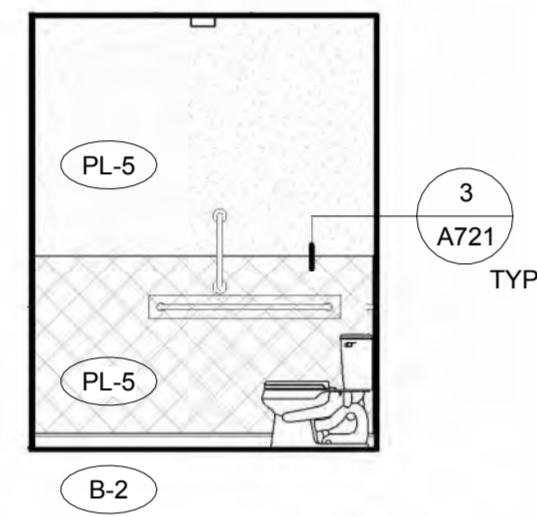
GENERAL NOTE:

REFERENCE 1 ON SHEET A002 FOR MOUNTING HEIGHTS AND CLEARANCES OF GRAB BARS, TOILETS, SINKS & ACCESSORIES. PROVIDE BLOCKING, ACCESSORIES PROVIDED BY OWNER.

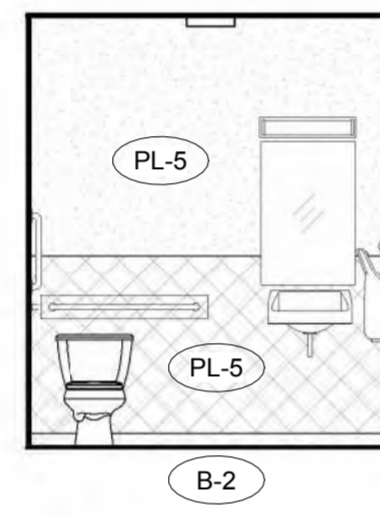
STORE VERTICAL, PIVOT 75 DEG SHIPS LADDER FOR ACCESS TO MEZZANINE



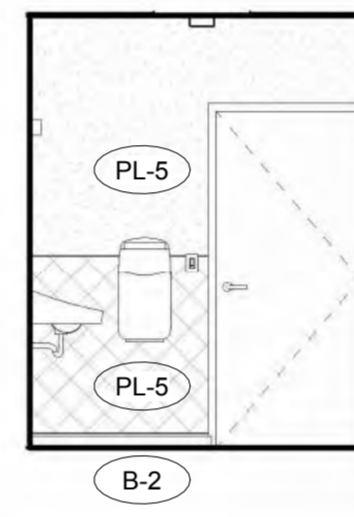
5 110 RR - EAST
1/4" = 1'-0"



6 110 RR - SOUTH
1/4" = 1'-0"



7 110 RR - WEST
1/4" = 1'-0"



8 110 RR - NORTH
1/4" = 1'-0"



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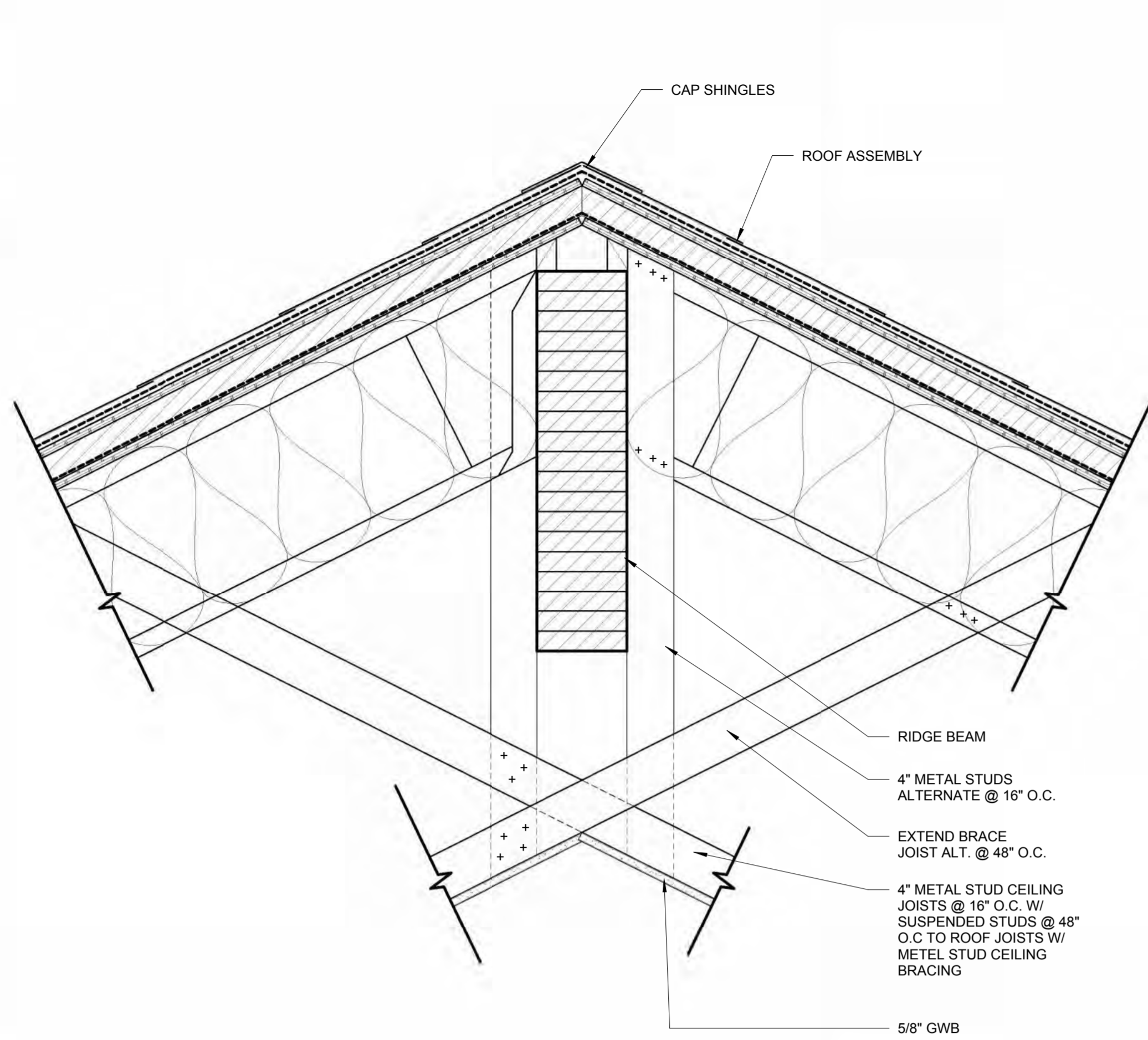
INTERIOR
ELEVATIONS

PROJECT # 22048
DATE 12/27/2023

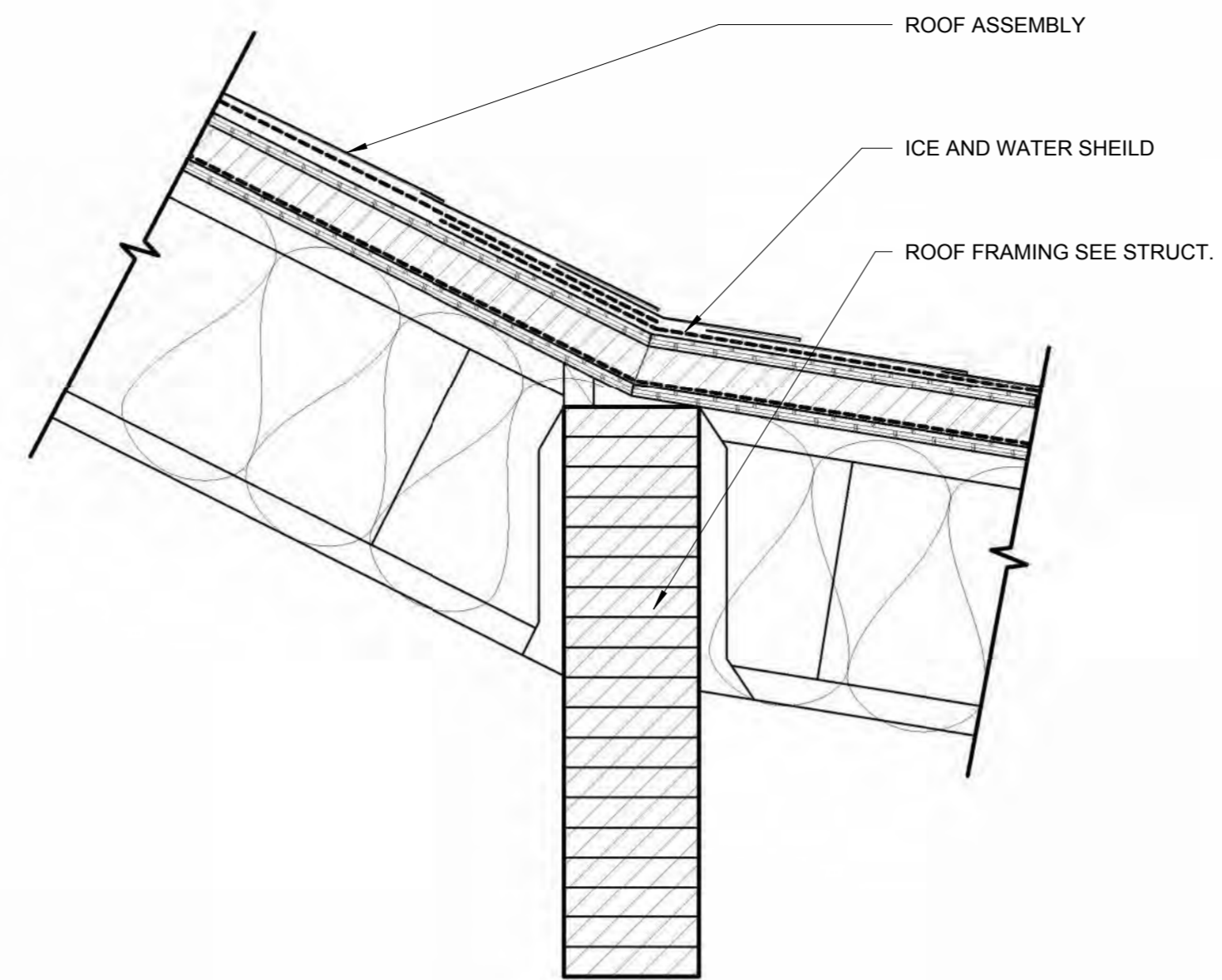
DATE	DESCRIPTION
2023.12.27	BID SET

A633

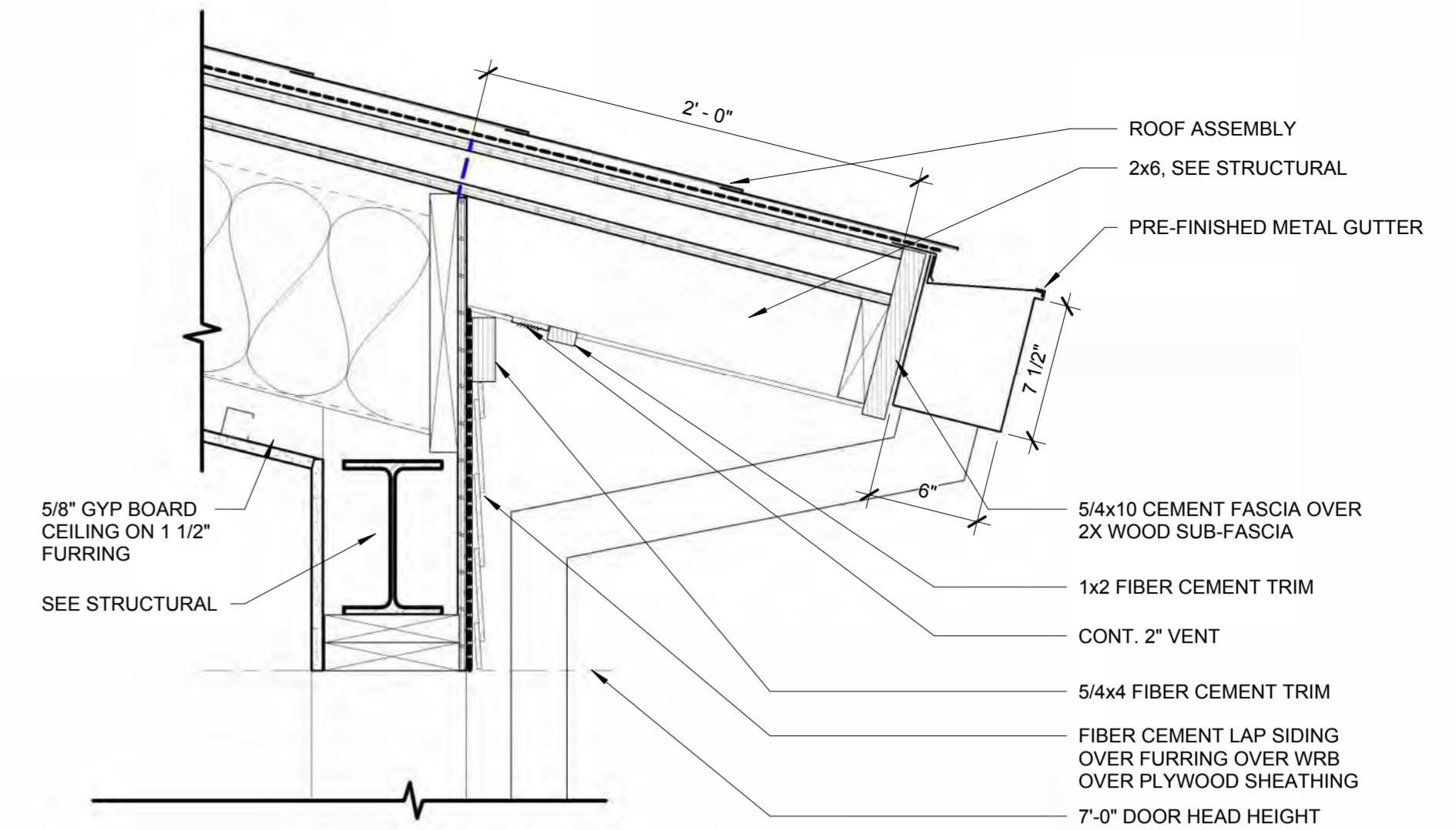
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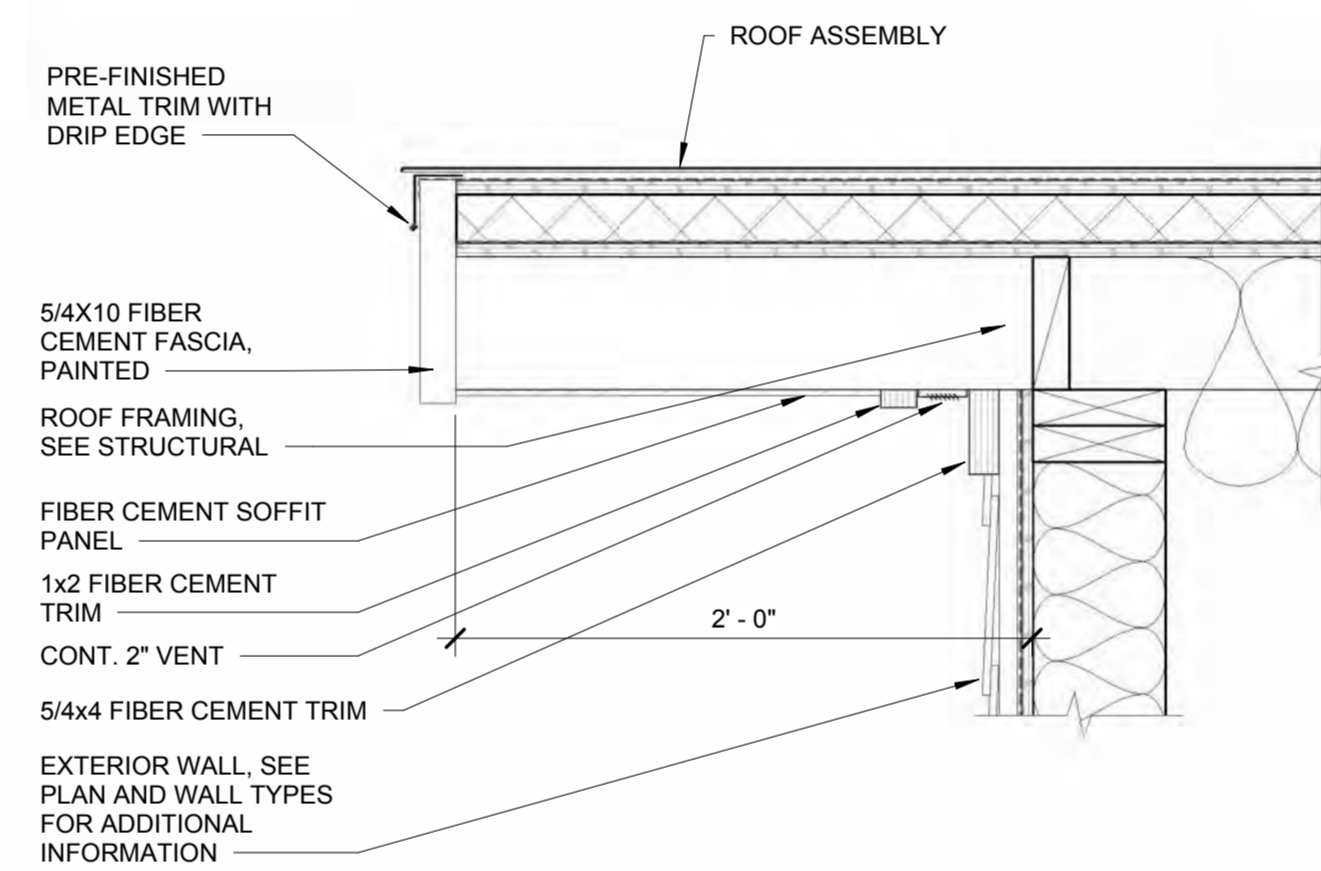
1 RIDGE DETAIL
1 1/2" = 1'-0"



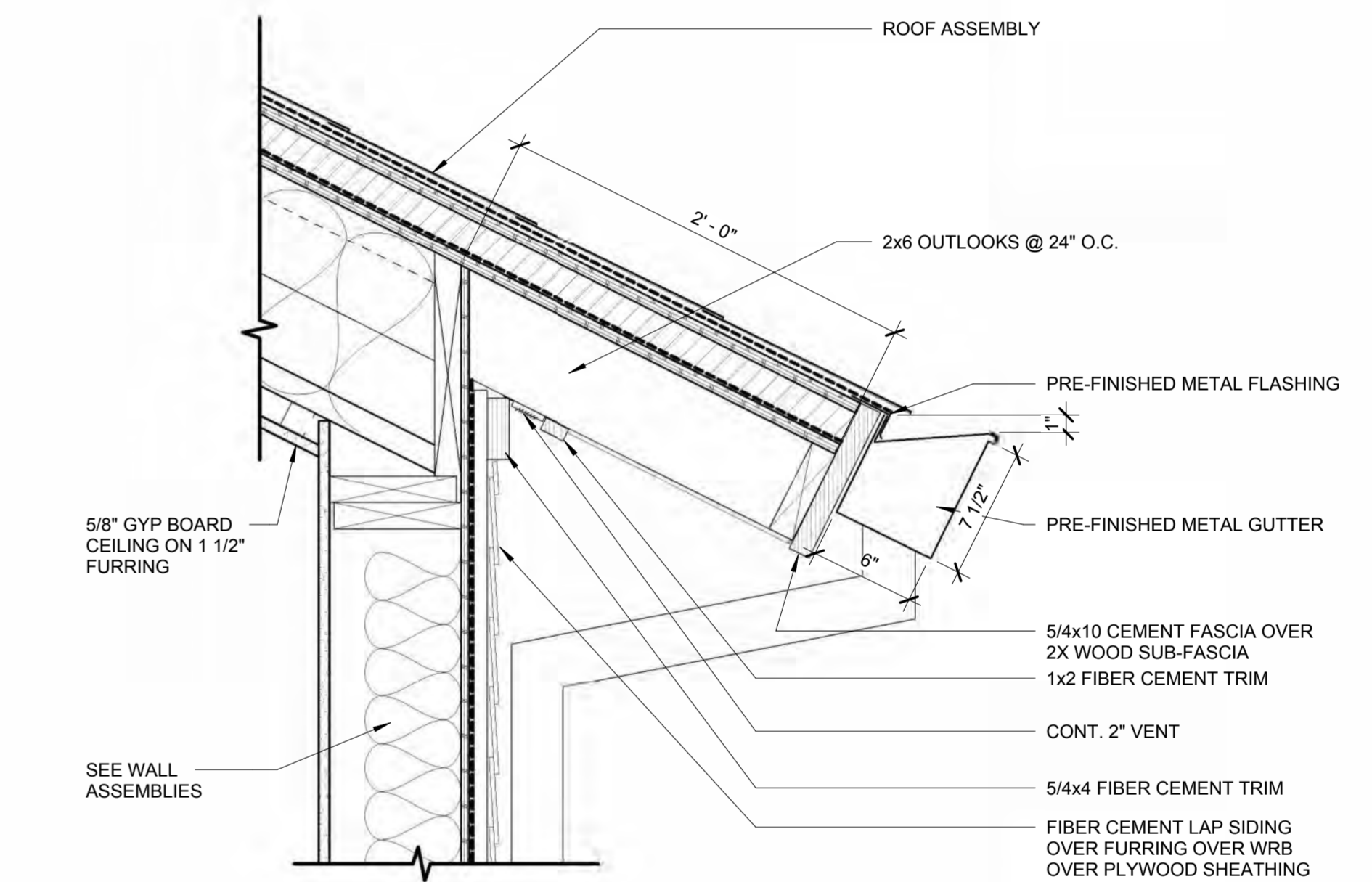
3 SLOPE CHANGE DETAIL
1 1/2" = 1'-0"



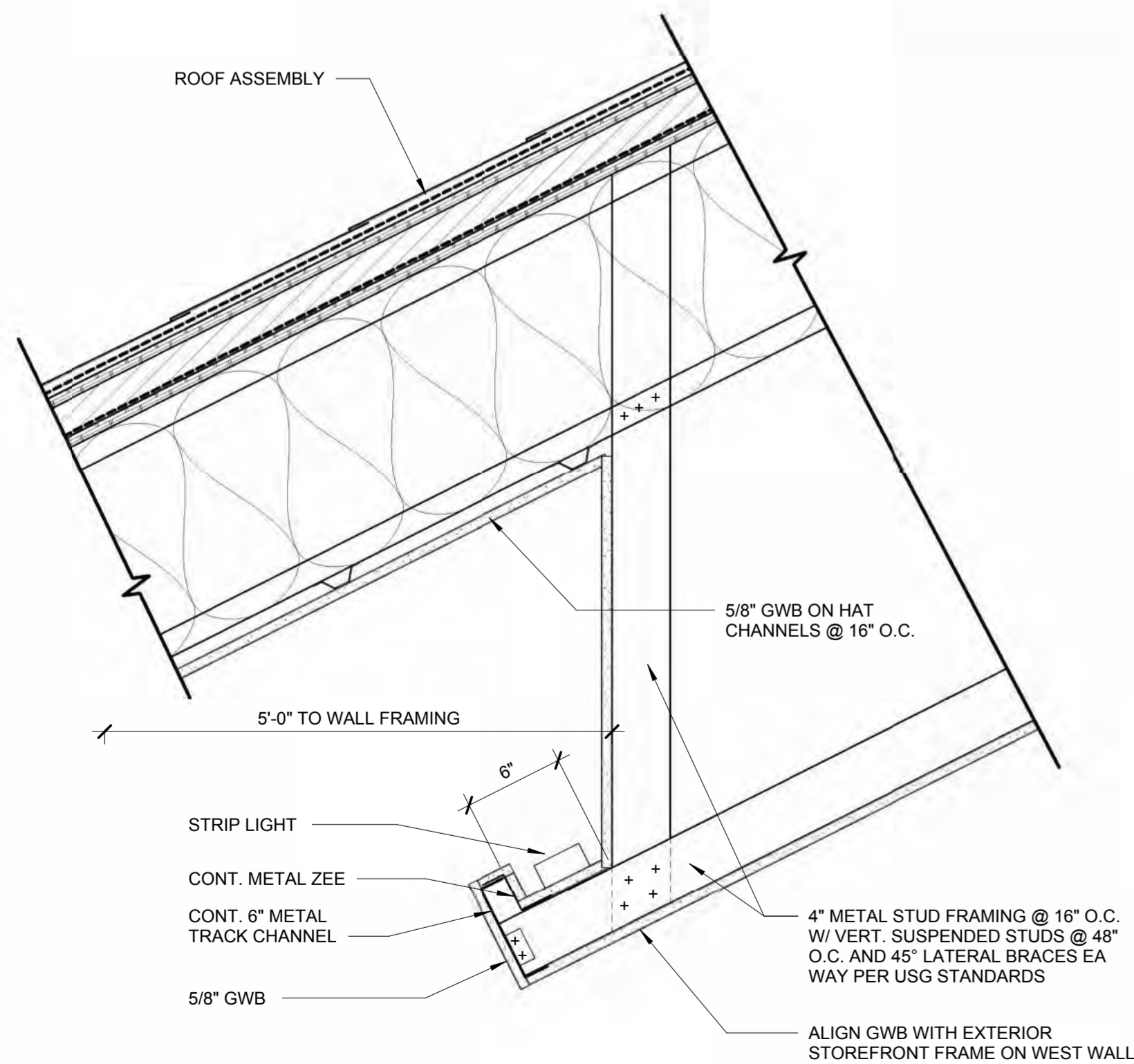
4 SOFFIT FRAMING DOOR HEADER DETAIL
1 1/2" = 1'-0"



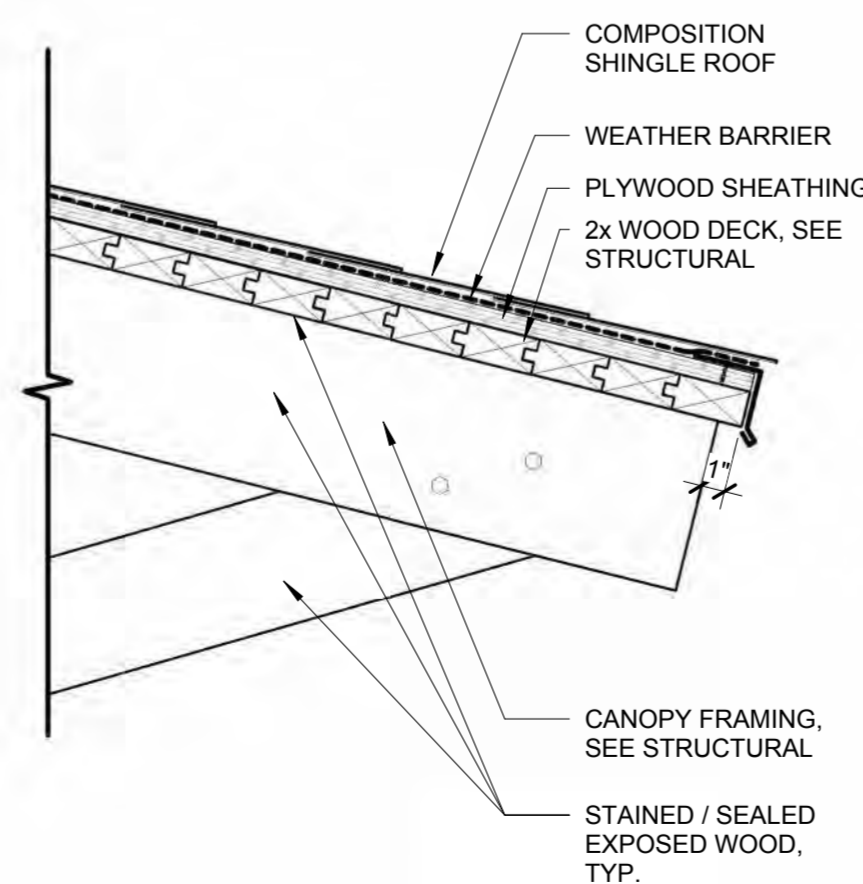
6 RAKE DETAIL
1 1/2" = 1'-0"



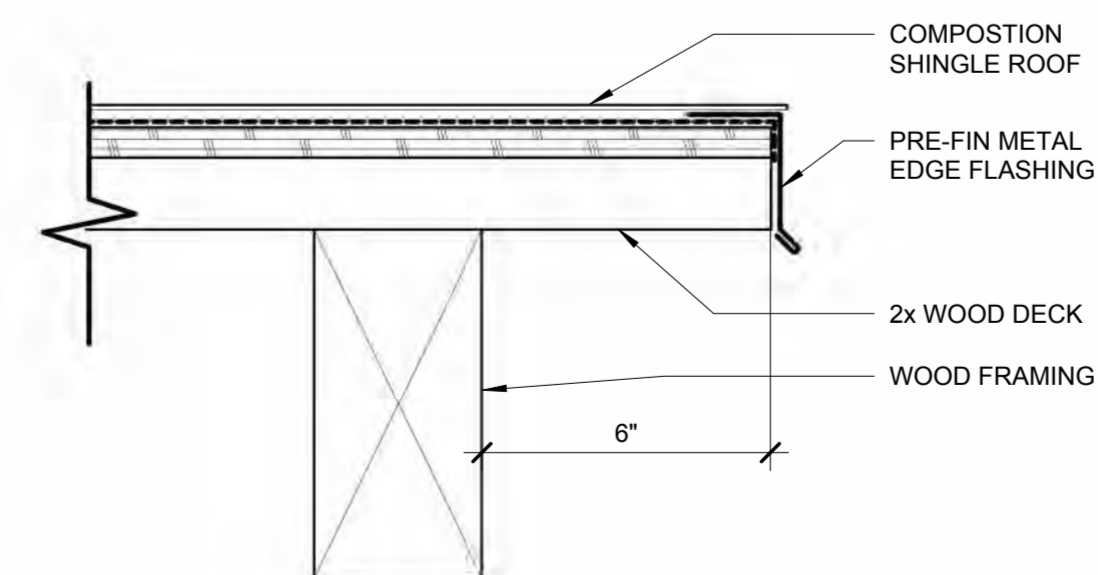
7 SOFFIT FRAMING DETAIL
1 1/2" = 1'-0"



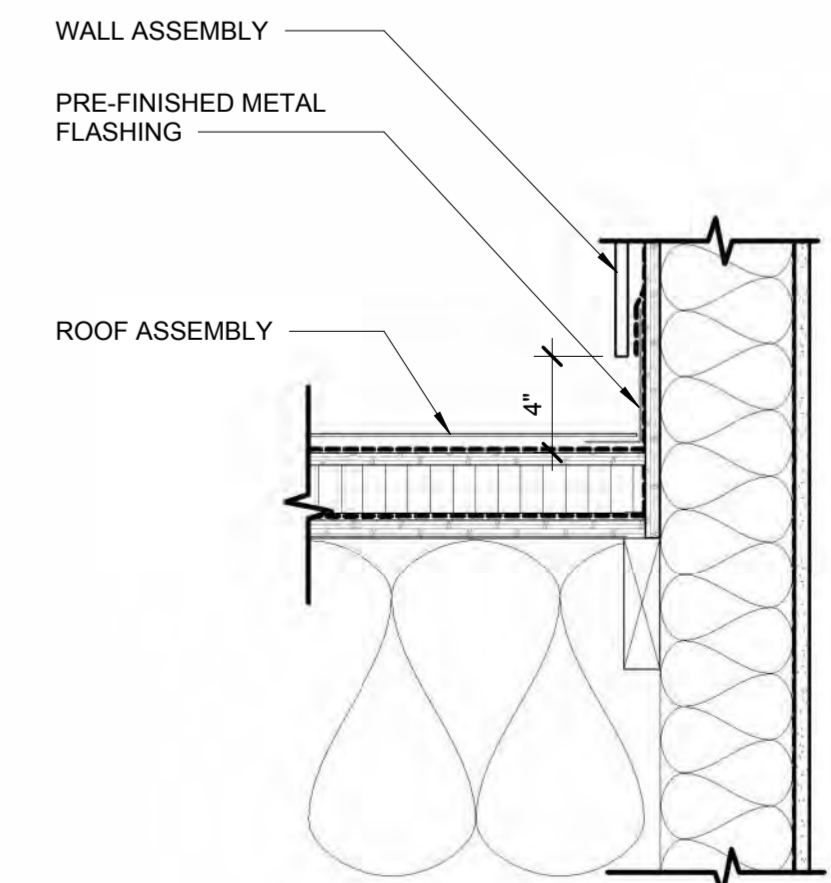
9 SOFFIT COVE DETAIL
1 1/2" = 1'-0"



10 CANOPY GUTTER
1 1/2" = 1'-0"

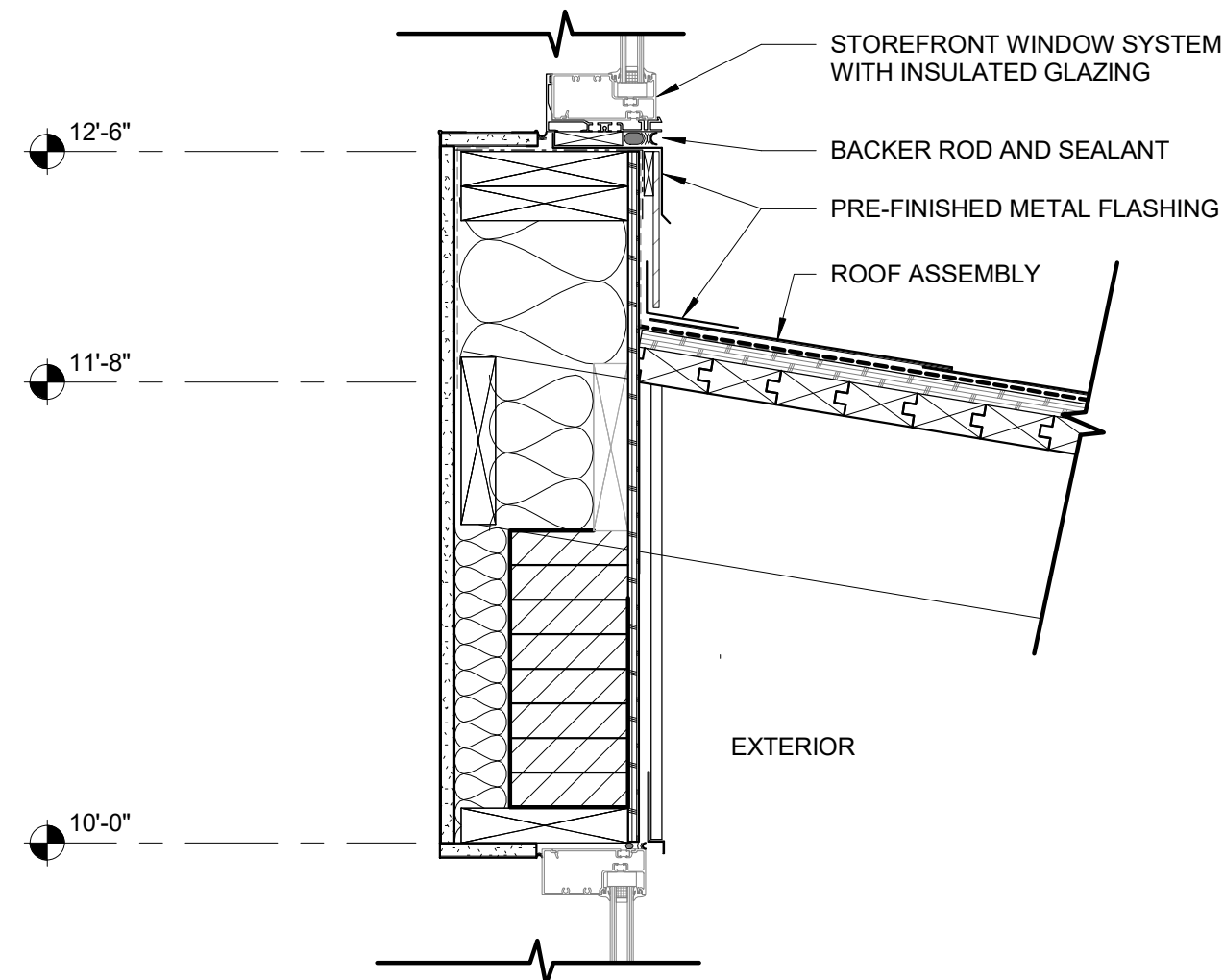


11 CANOPY RAKE EDGE
3" = 1'-0"

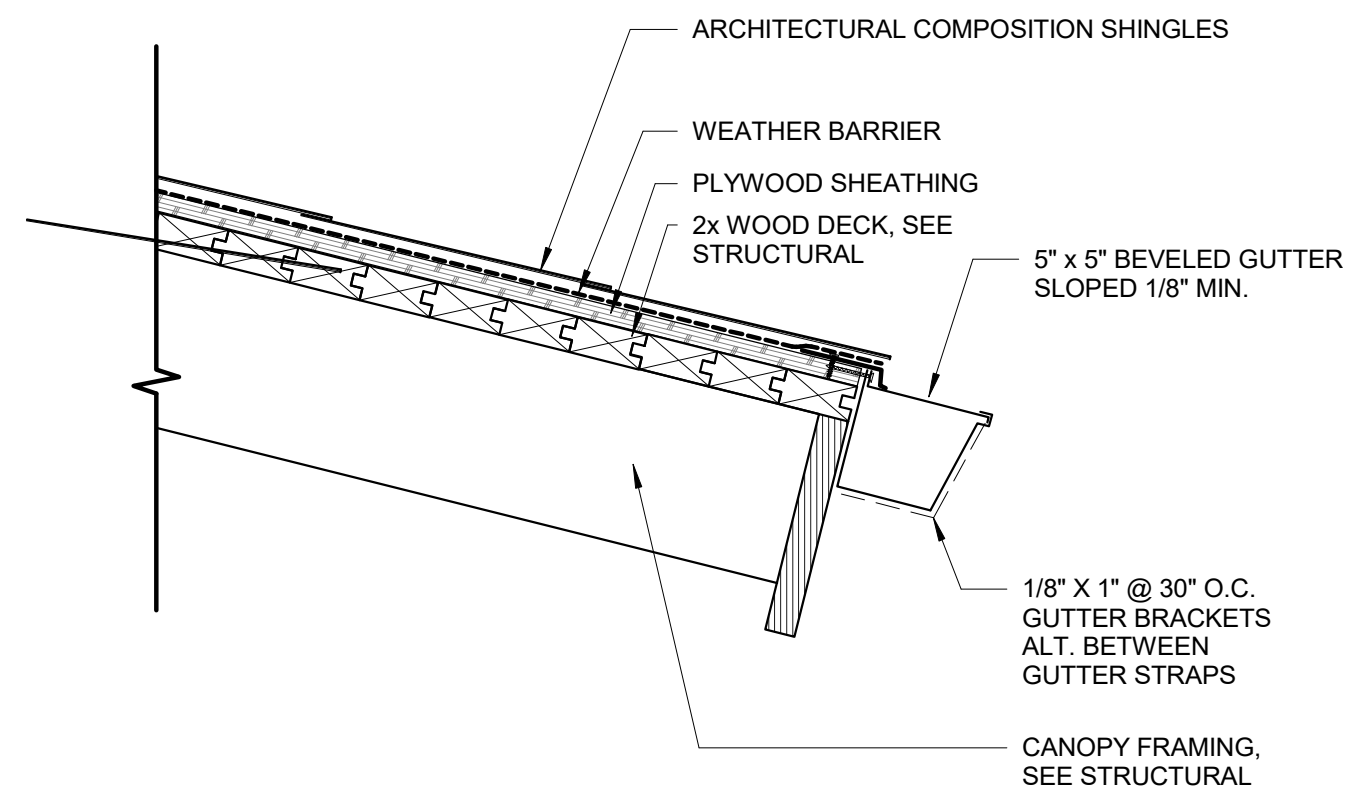


12 ROOF - WALL FLASHING
1 1/2" = 1'-0"

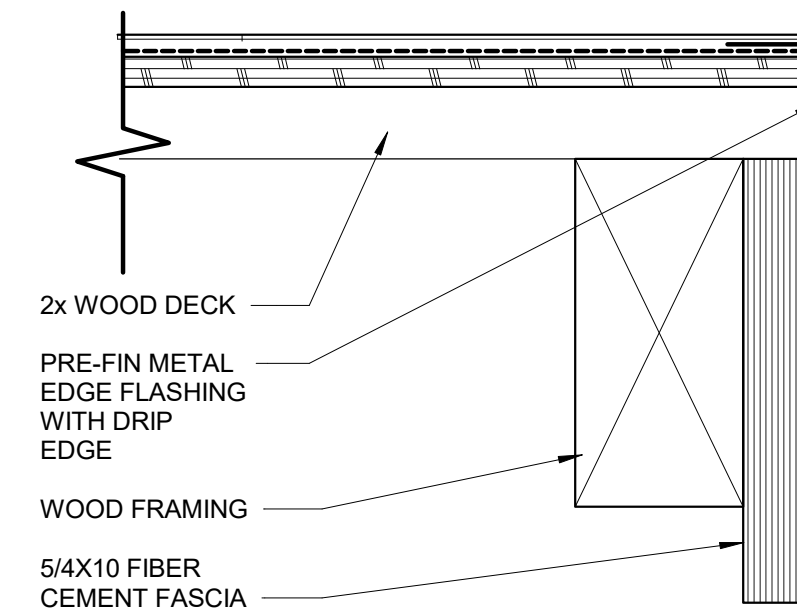
PROJECT #	22048
DATE	12/27/2023
DATE	2023.12.27
DESCRIPTION	BID SET



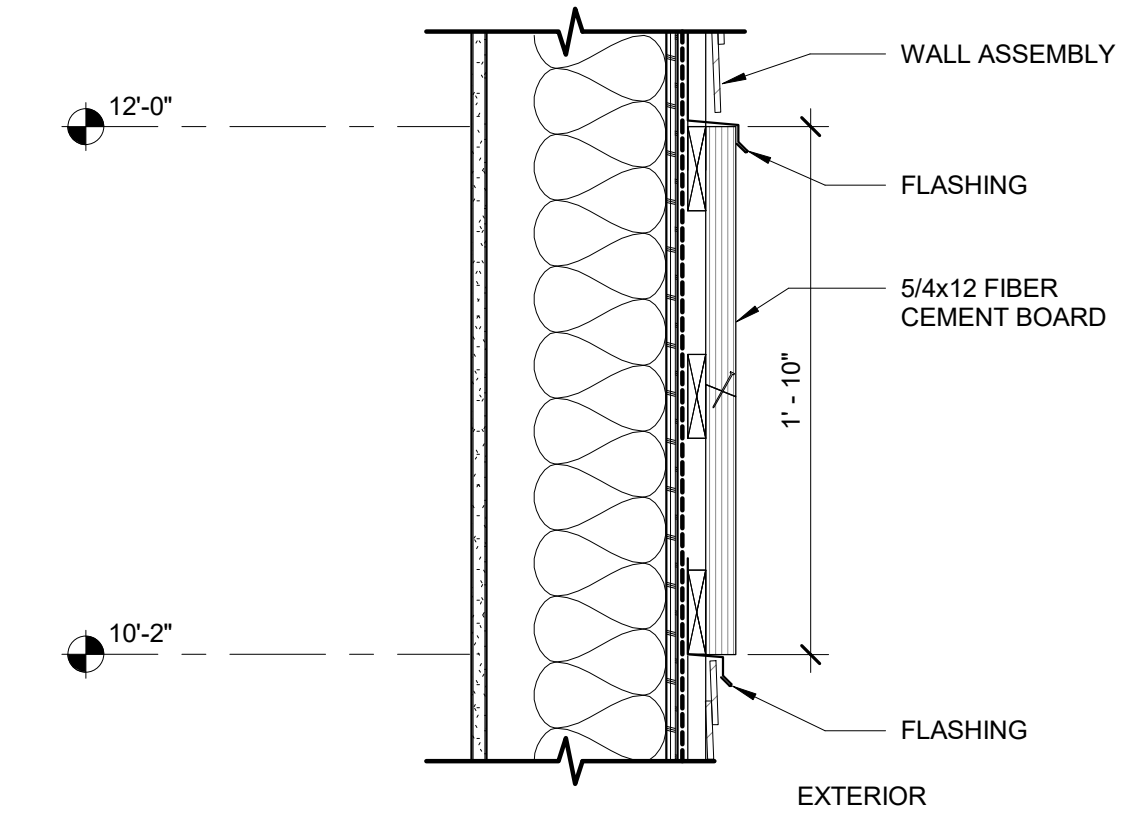
1 FRAMING DETAIL
1 1/2" = 1'-0"



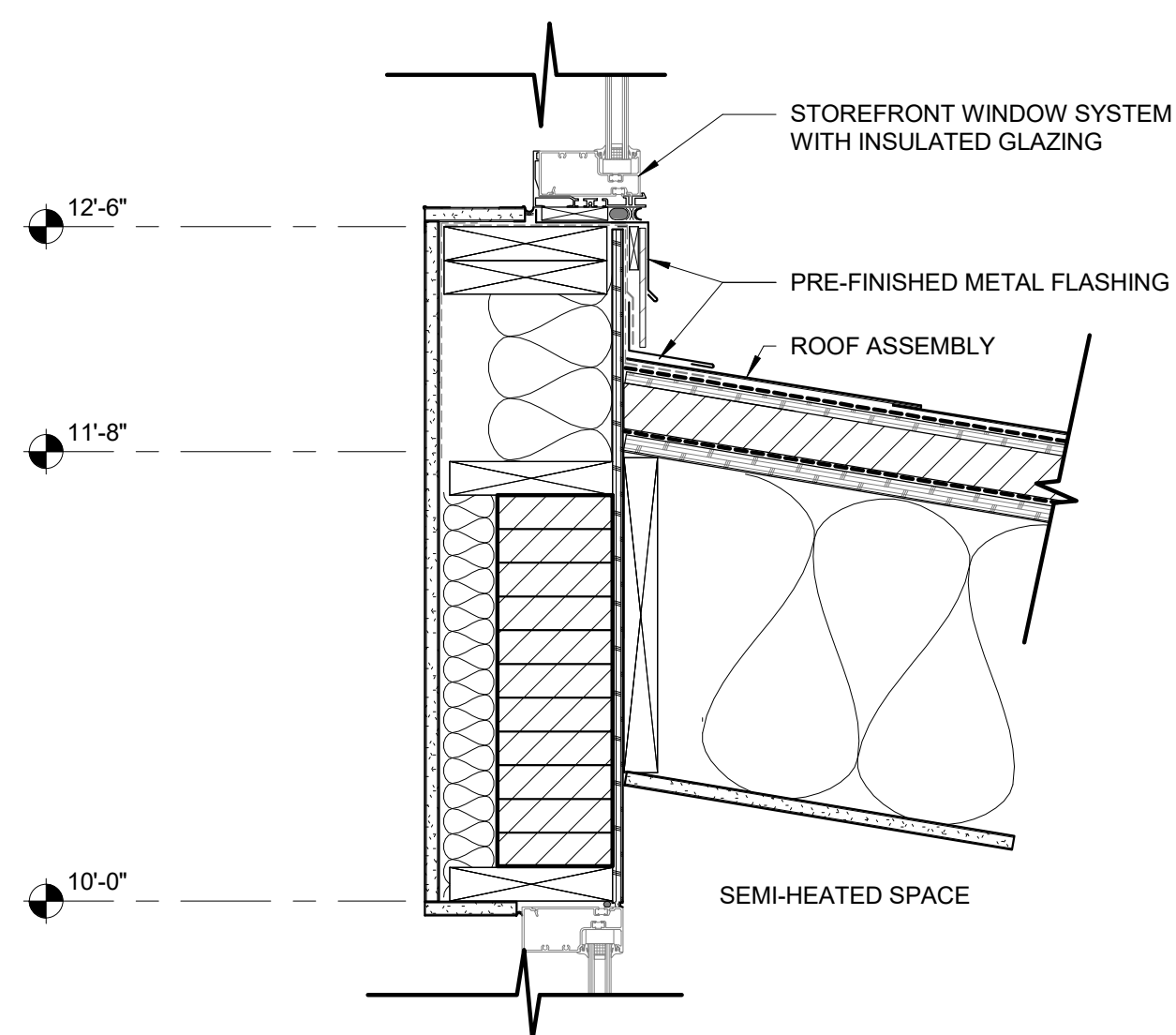
2 CANOPY GUTTER
1 1/2" = 1'-0"



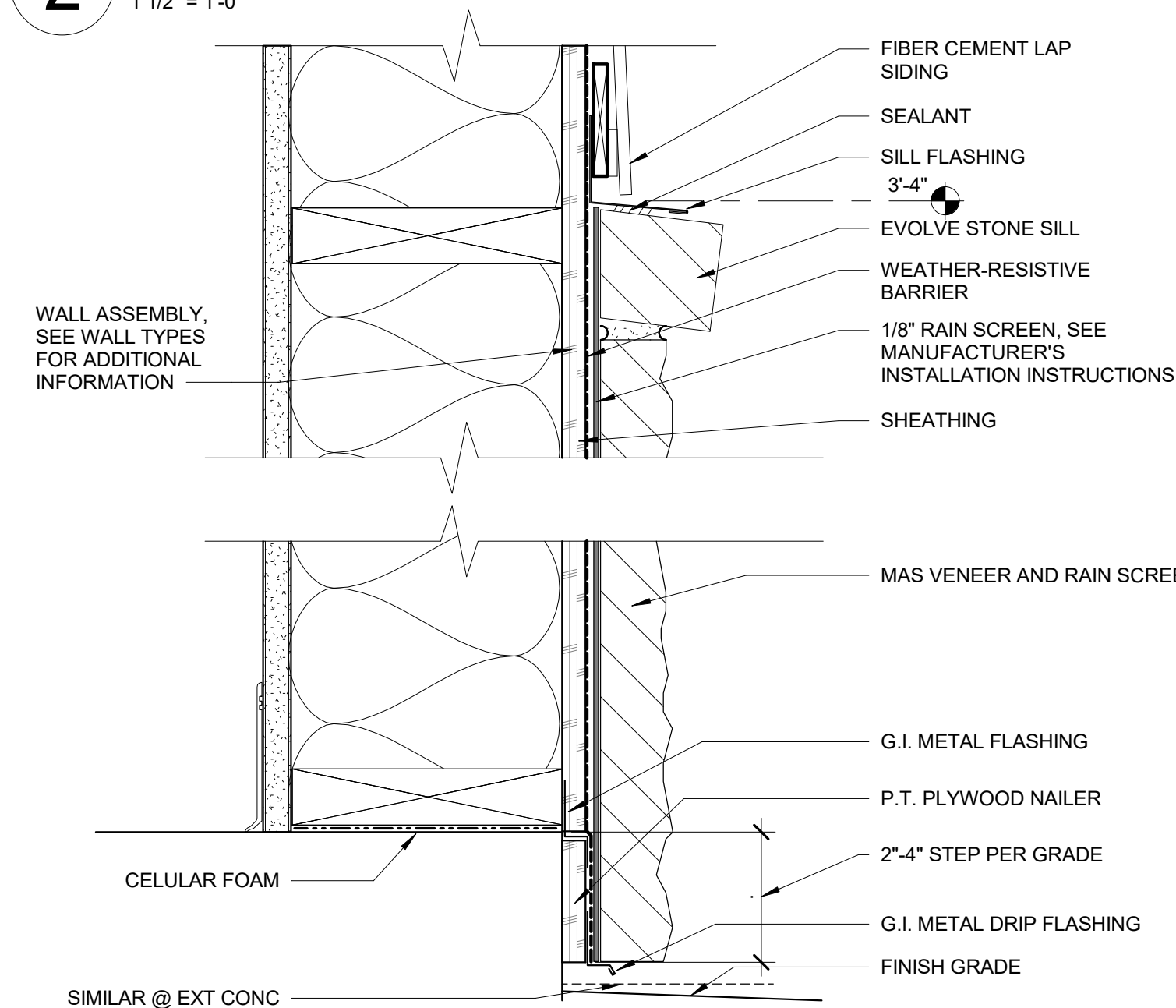
3 CANOPY RAKE EDGE
3" = 1'-0"



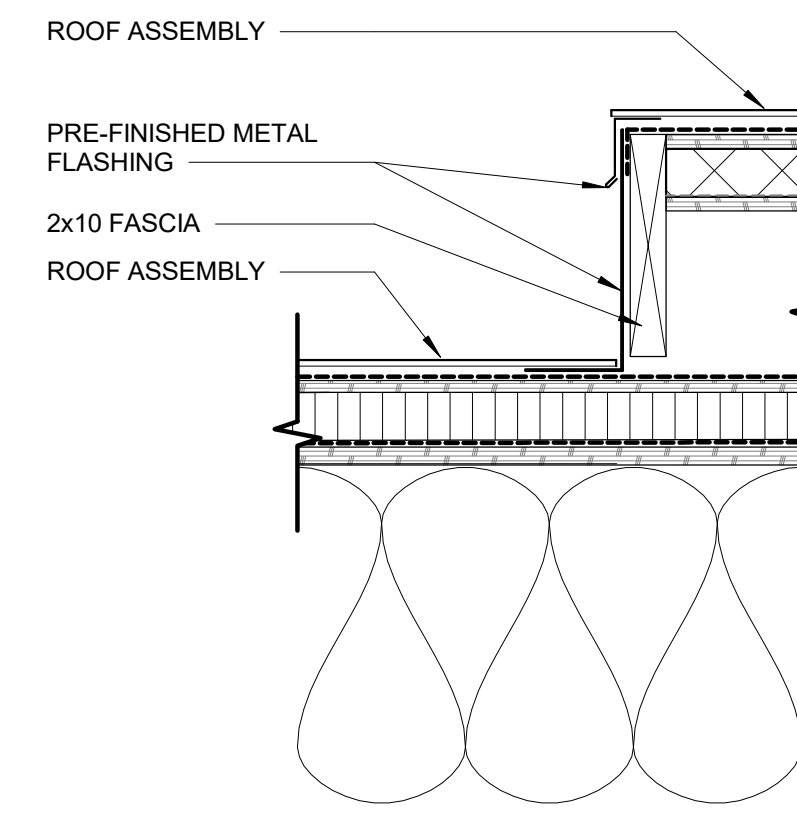
4 BAND DETAIL
1 1/2" = 1'-0"



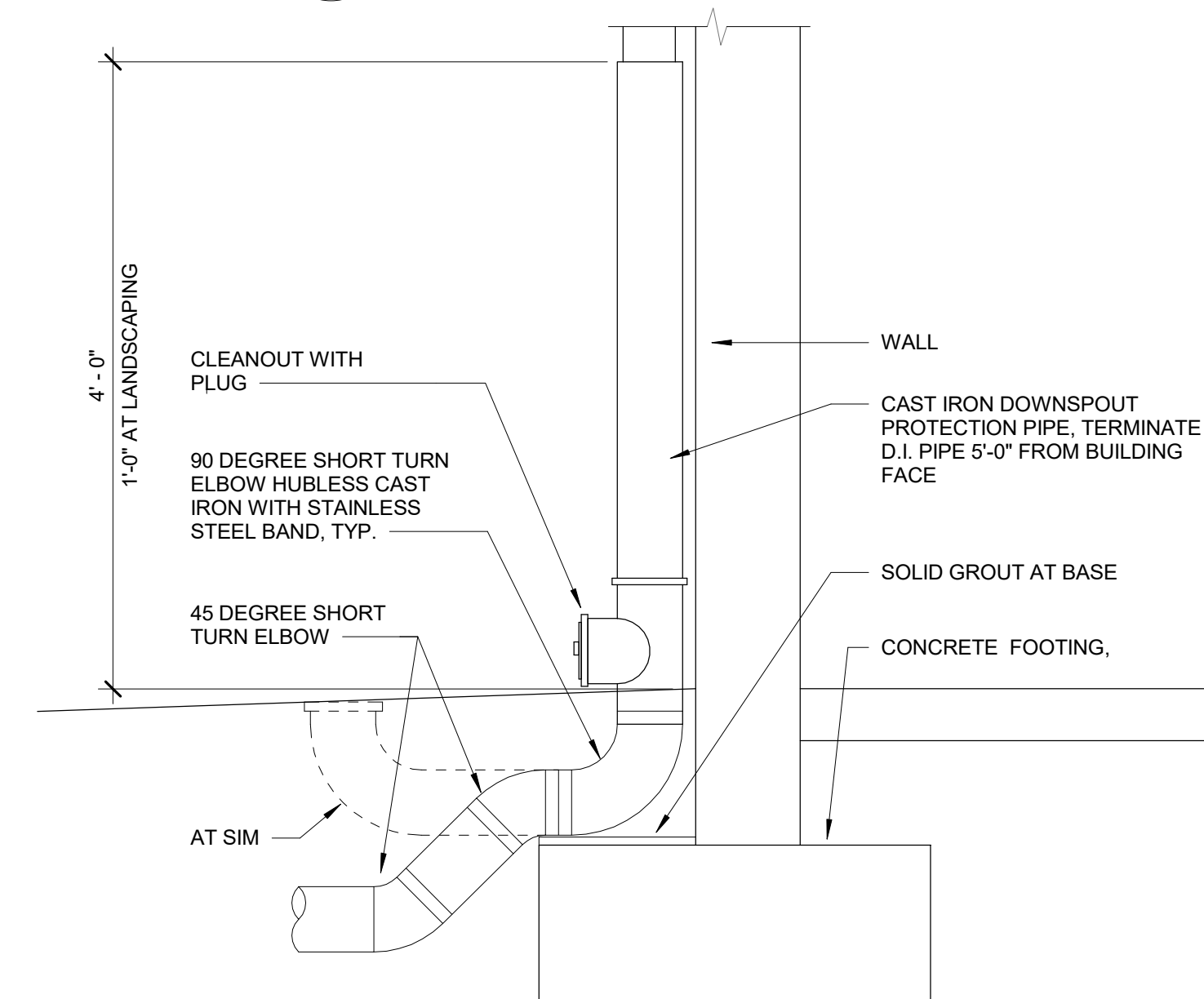
5 PORCH TO WALL FRAMING DETAIL
1 1/2" = 1'-0"



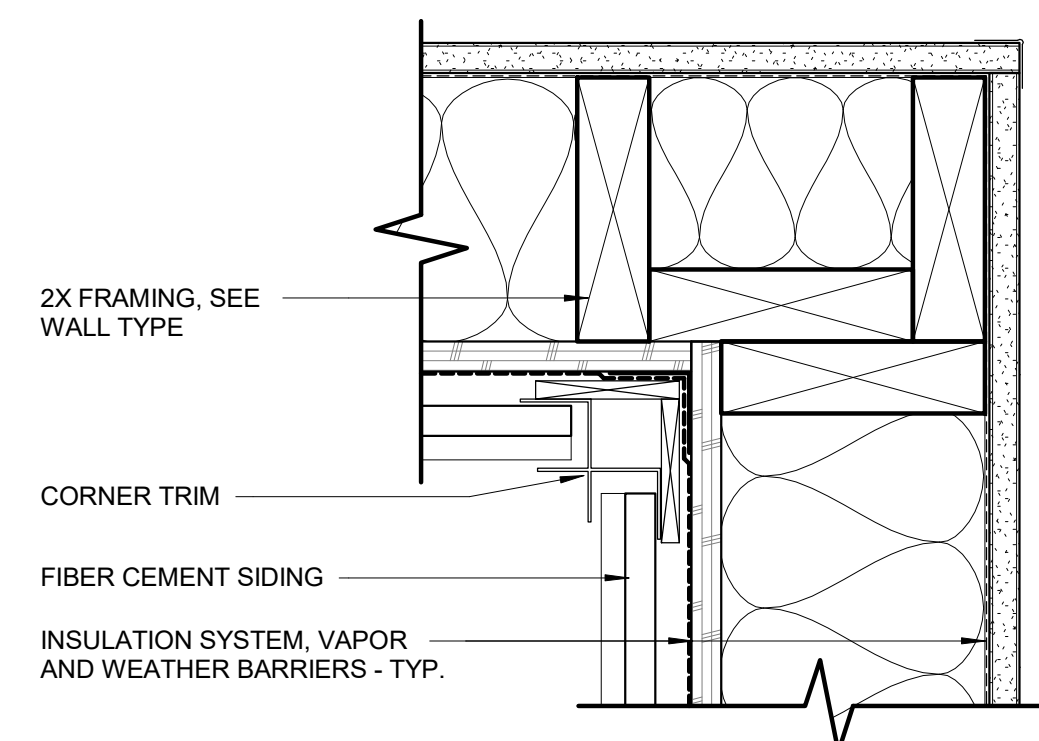
6 VENEER / WALL FLASHING
3" = 1'-0"



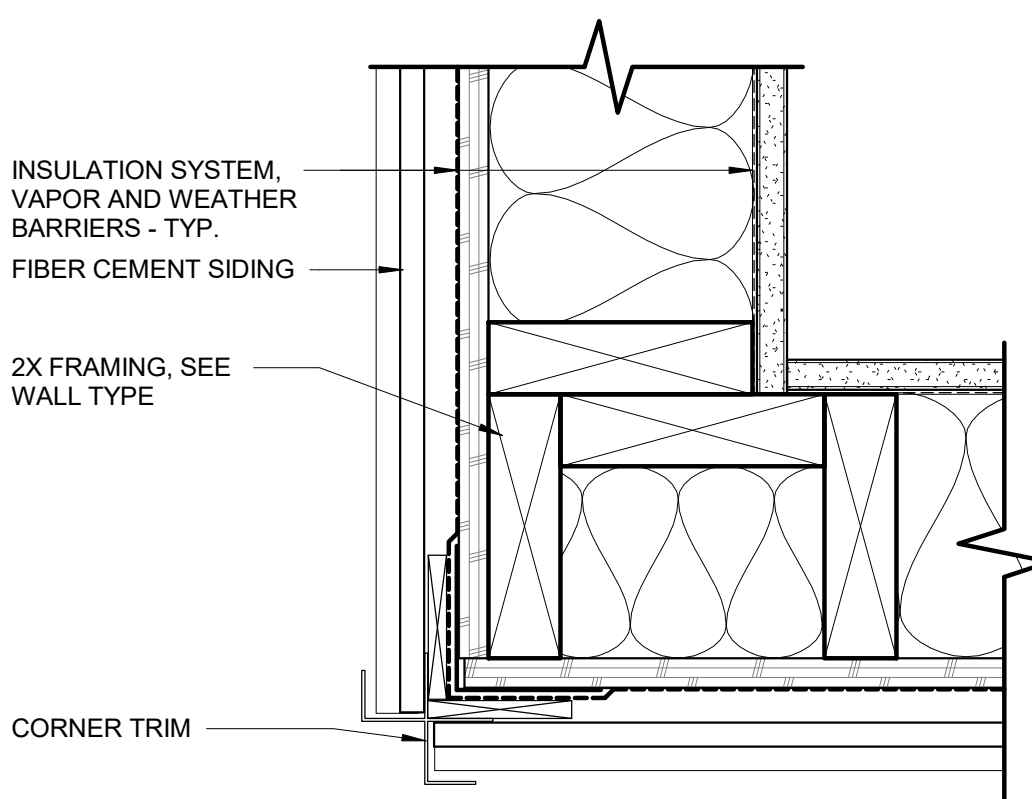
7 ROOF FLASHING DETAIL
1 1/2" = 1'-0"



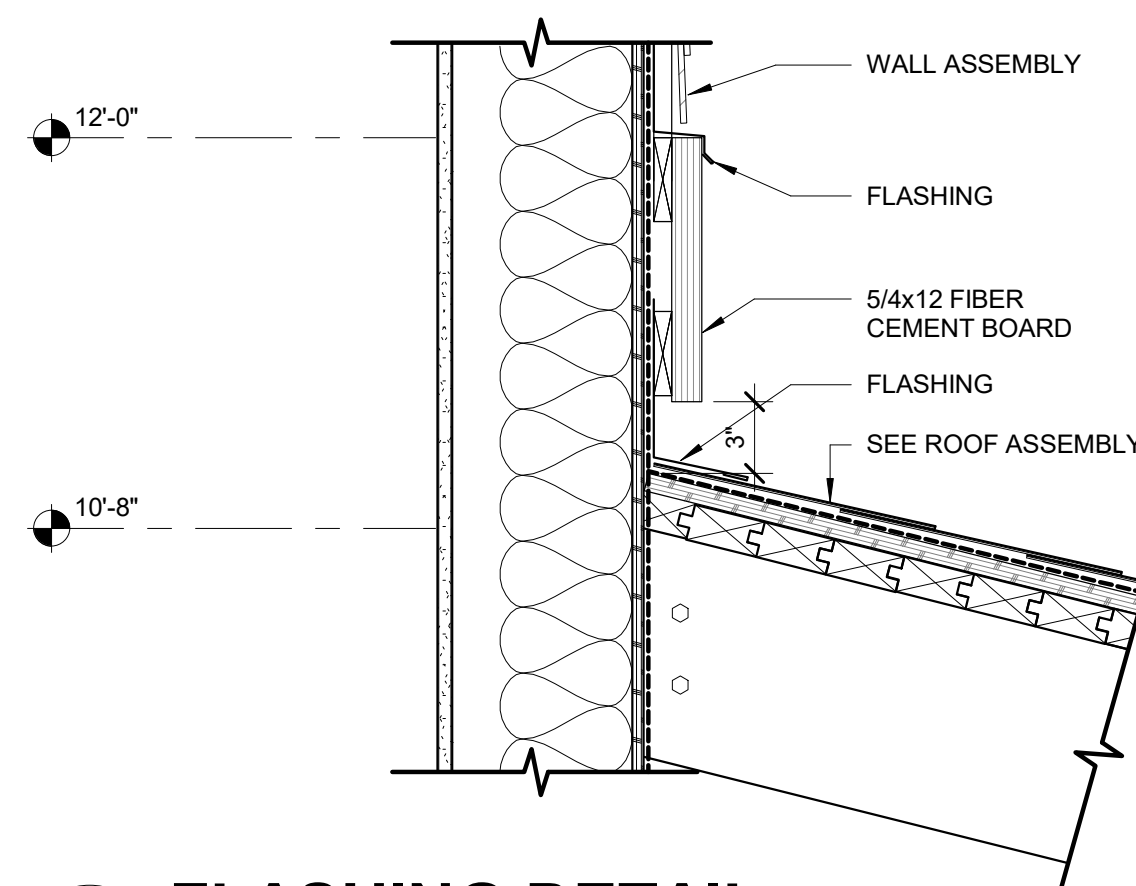
8 DOWNSPOUT CONNECTION
1" = 1'-0"



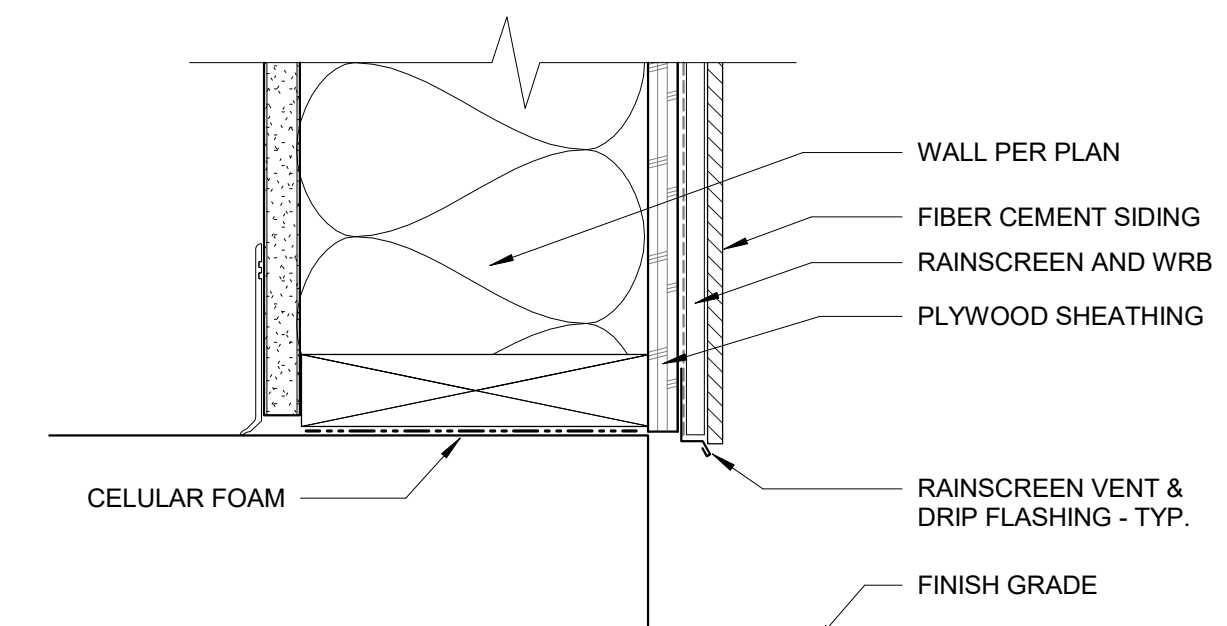
9 INSIDE CORNER (LAP)
3" = 1'-0"



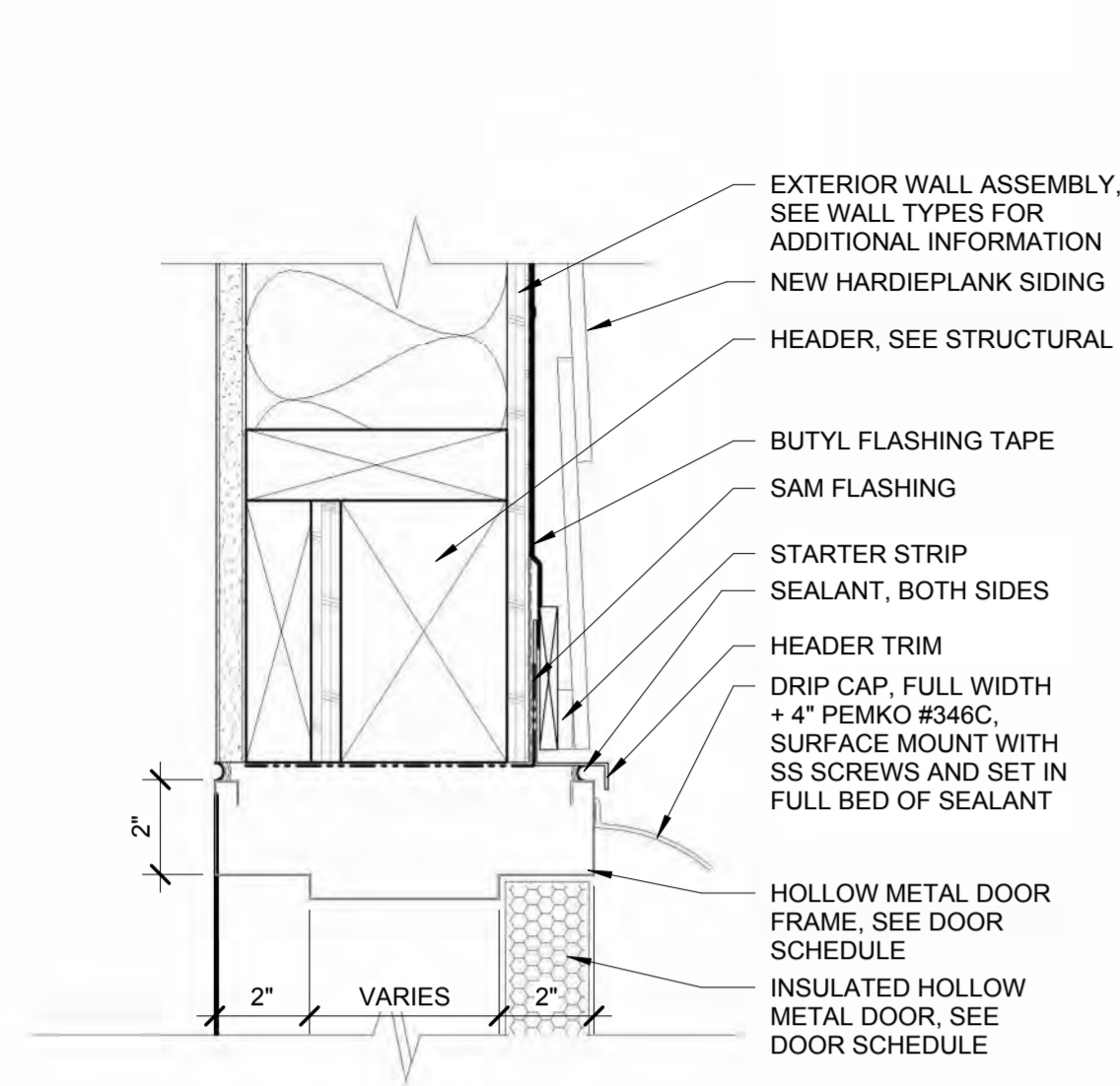
10 OUTSIDE CORNER (LAP)
3" = 1'-0"



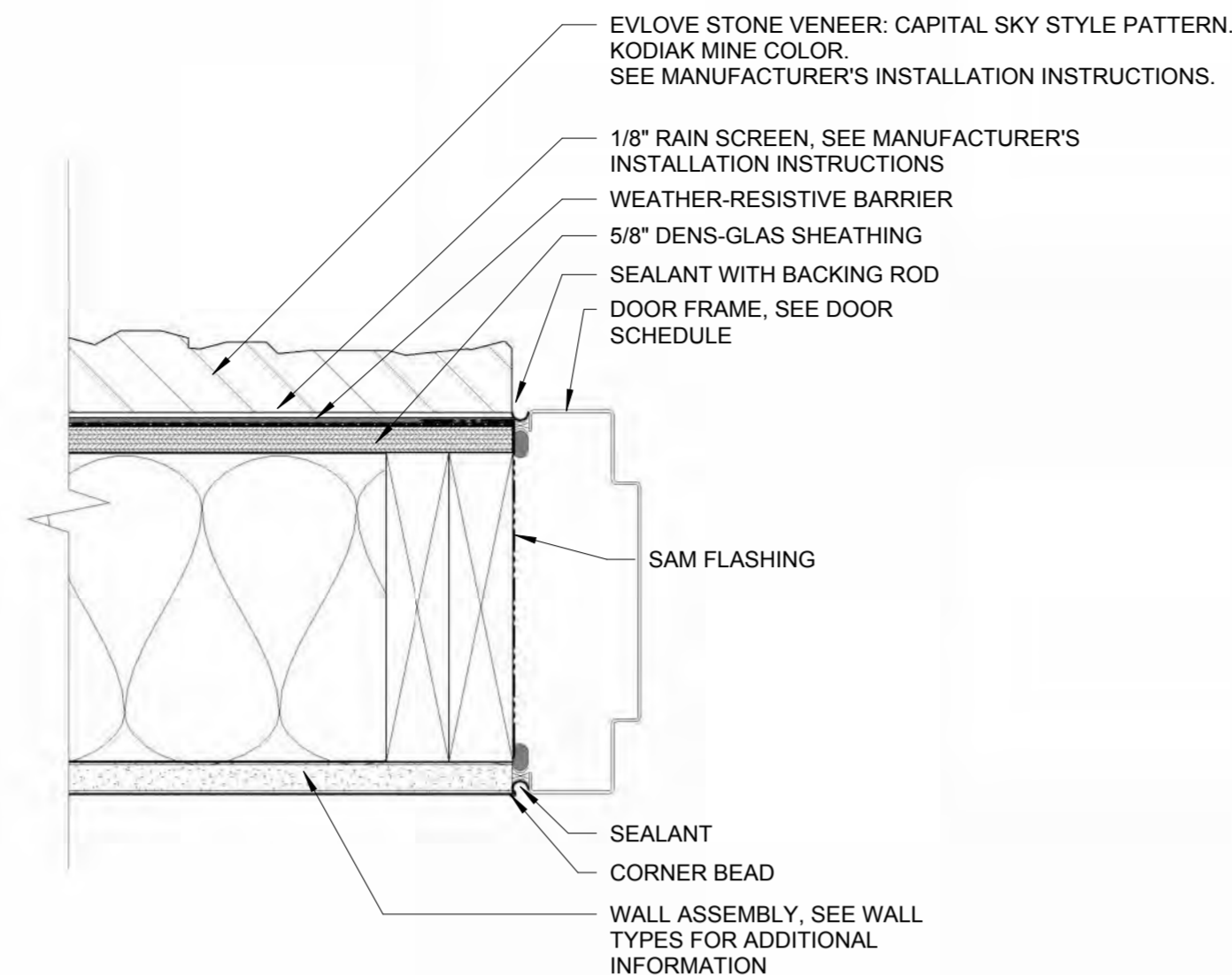
11 FLASHING DETAIL
1 1/2" = 1'-0"



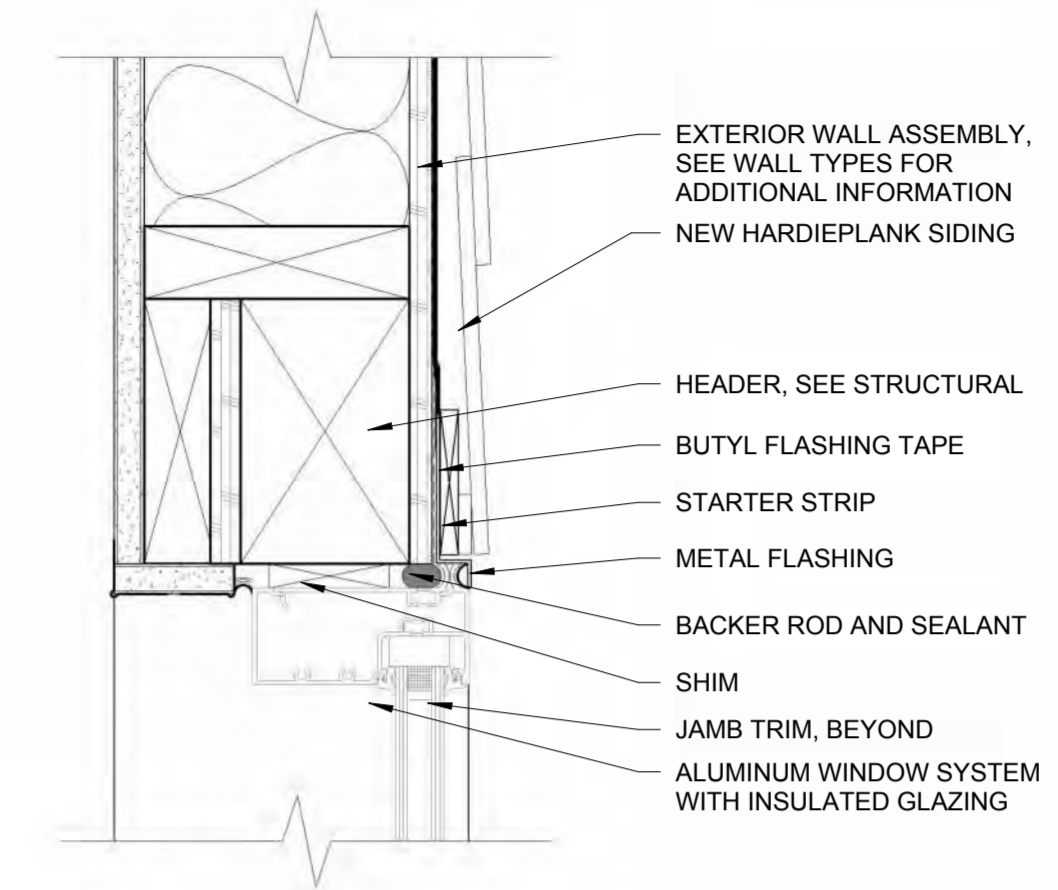
12 EXT SIDING @ GRADE
3" = 1'-0"



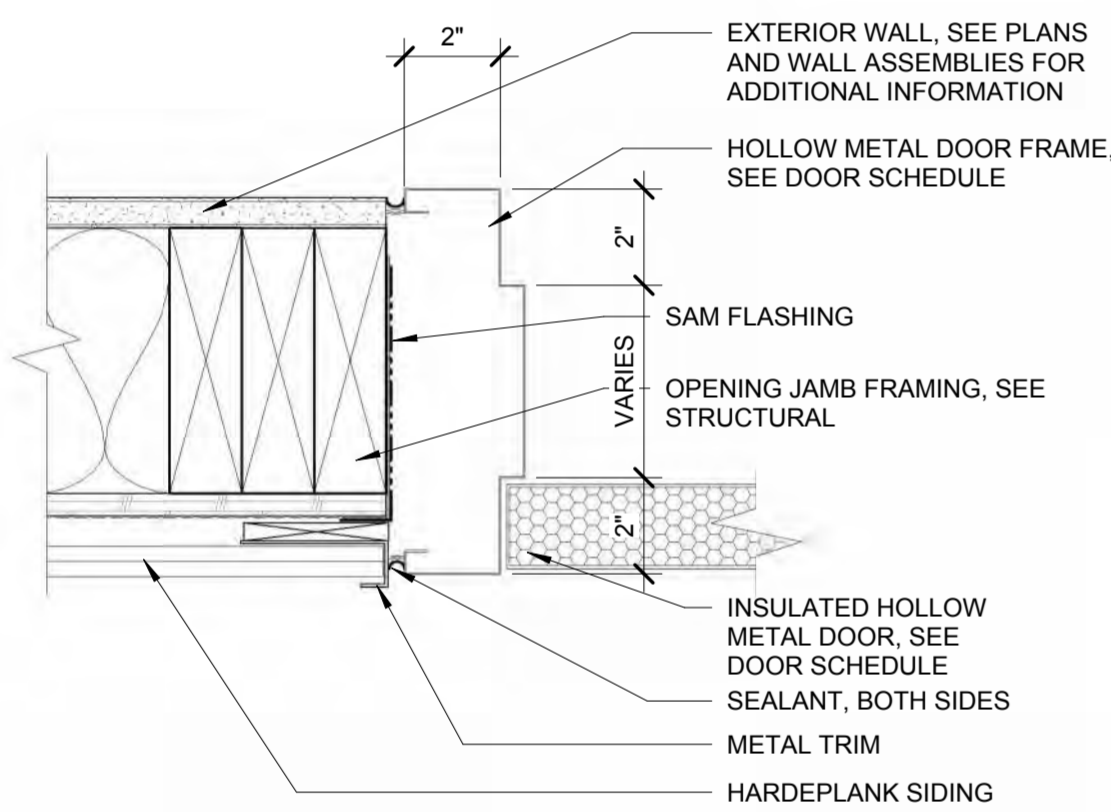
1 H.M. DOOR HEAD
3" = 1'-0"



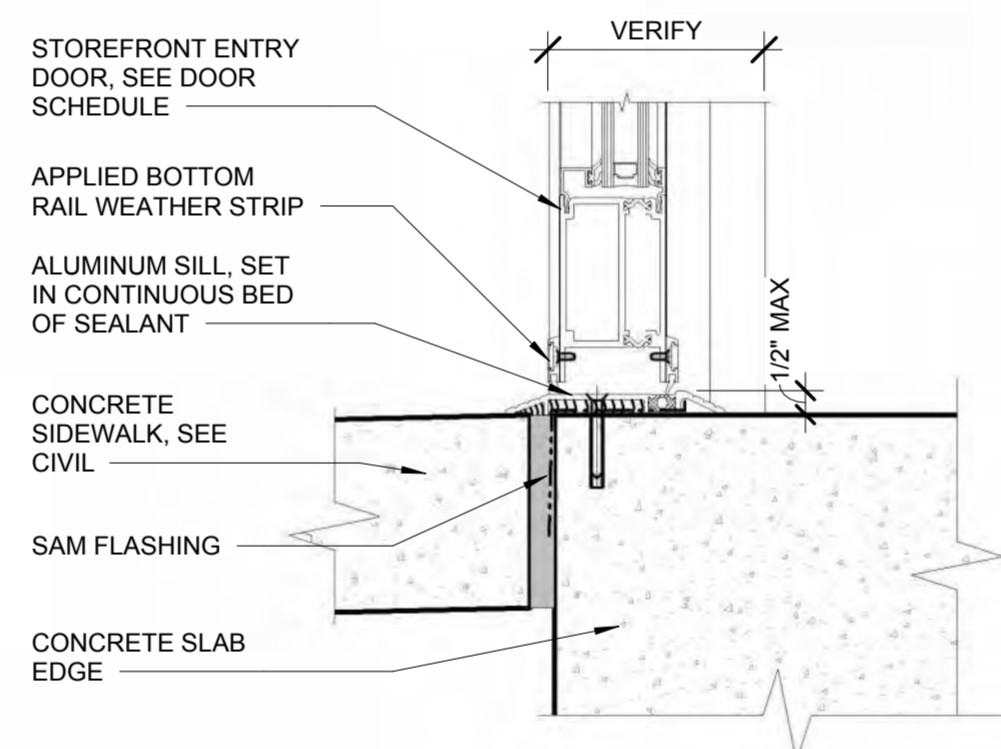
2 H.M. JAMB-EVLOVE STONE VENEER
3" = 1'-0"



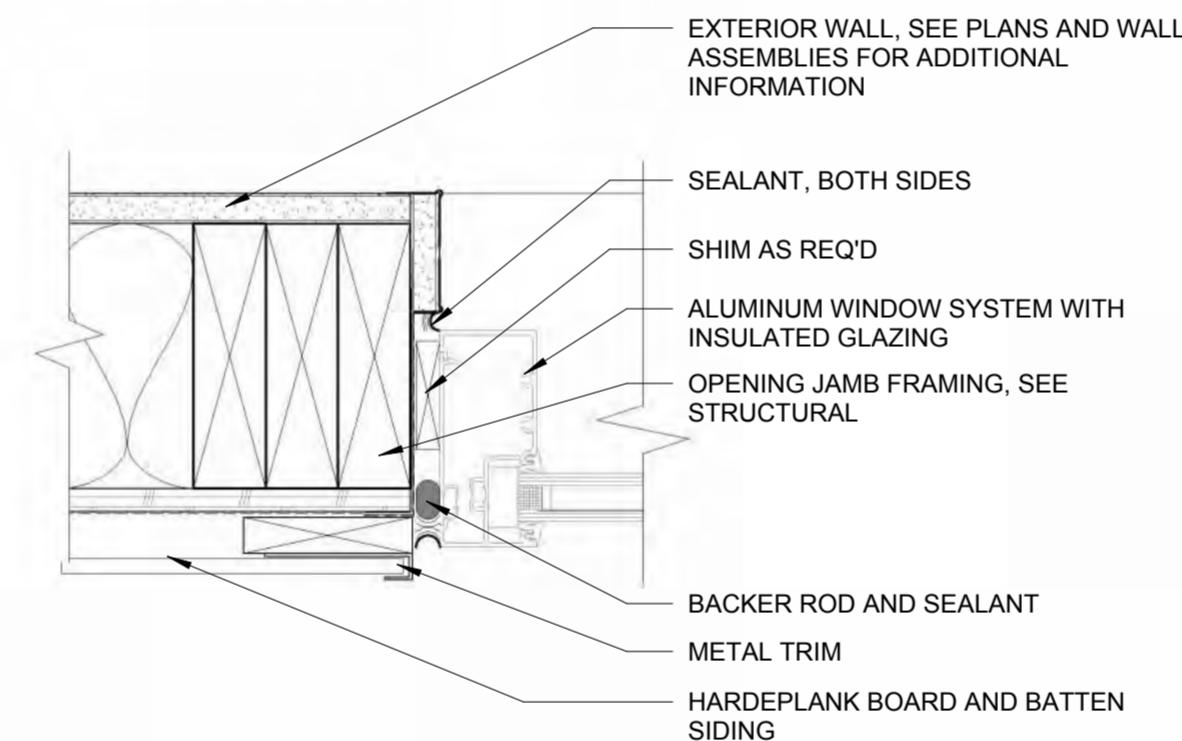
4 STOREFRONT WINDOW HEAD
3" = 1'-0"



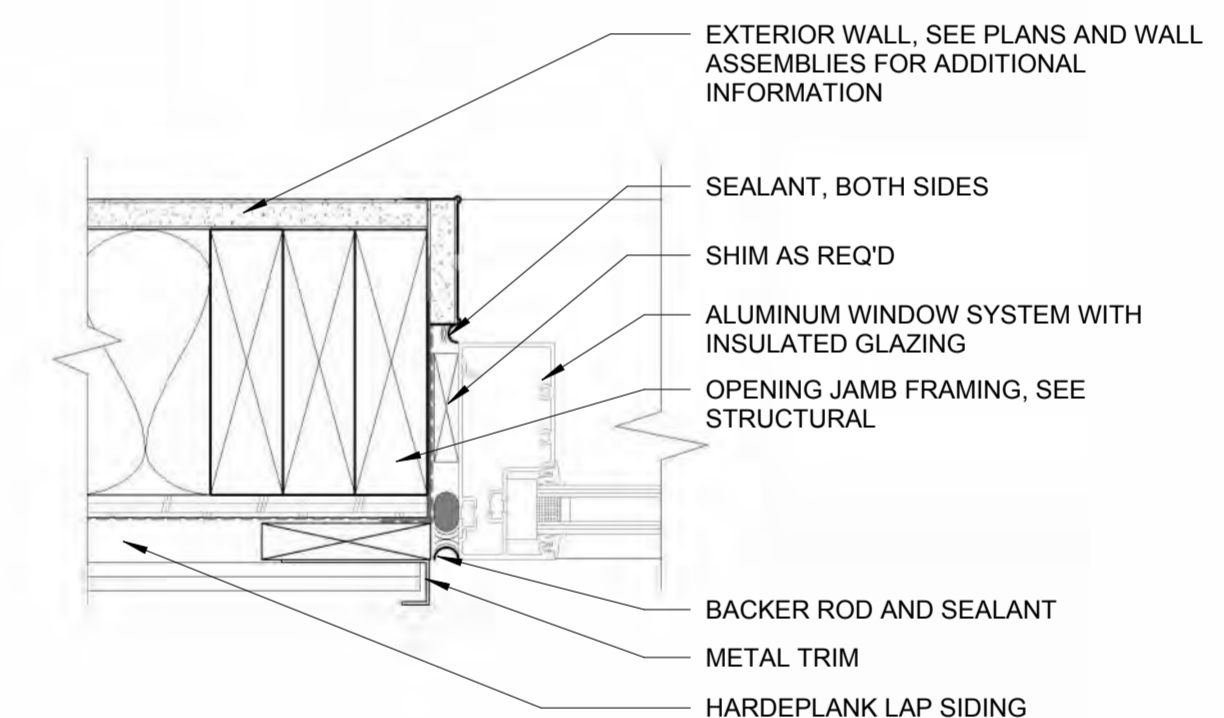
5 H.M. DOOR JAMB
3" = 1'-0"



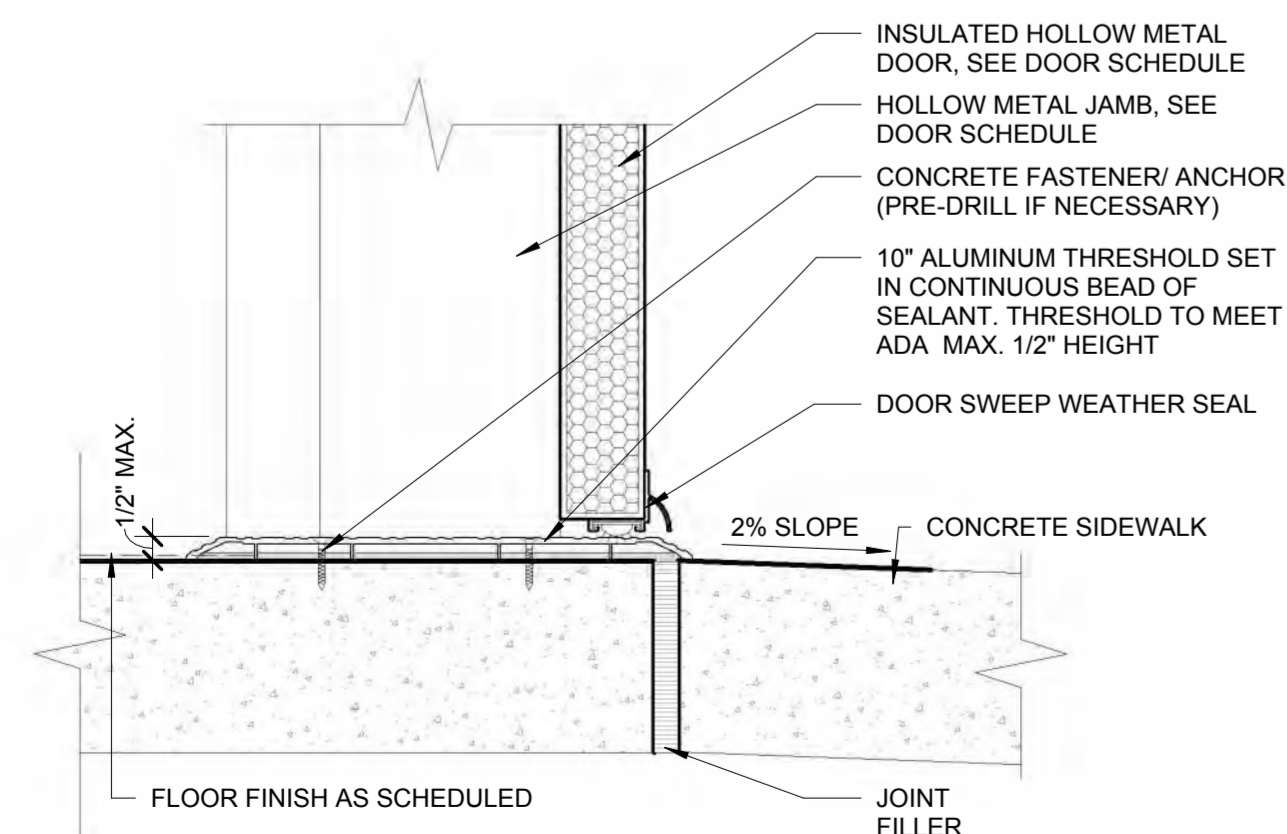
6 STOREFRONT DOOR THRESHOLD
3" = 1'-0"



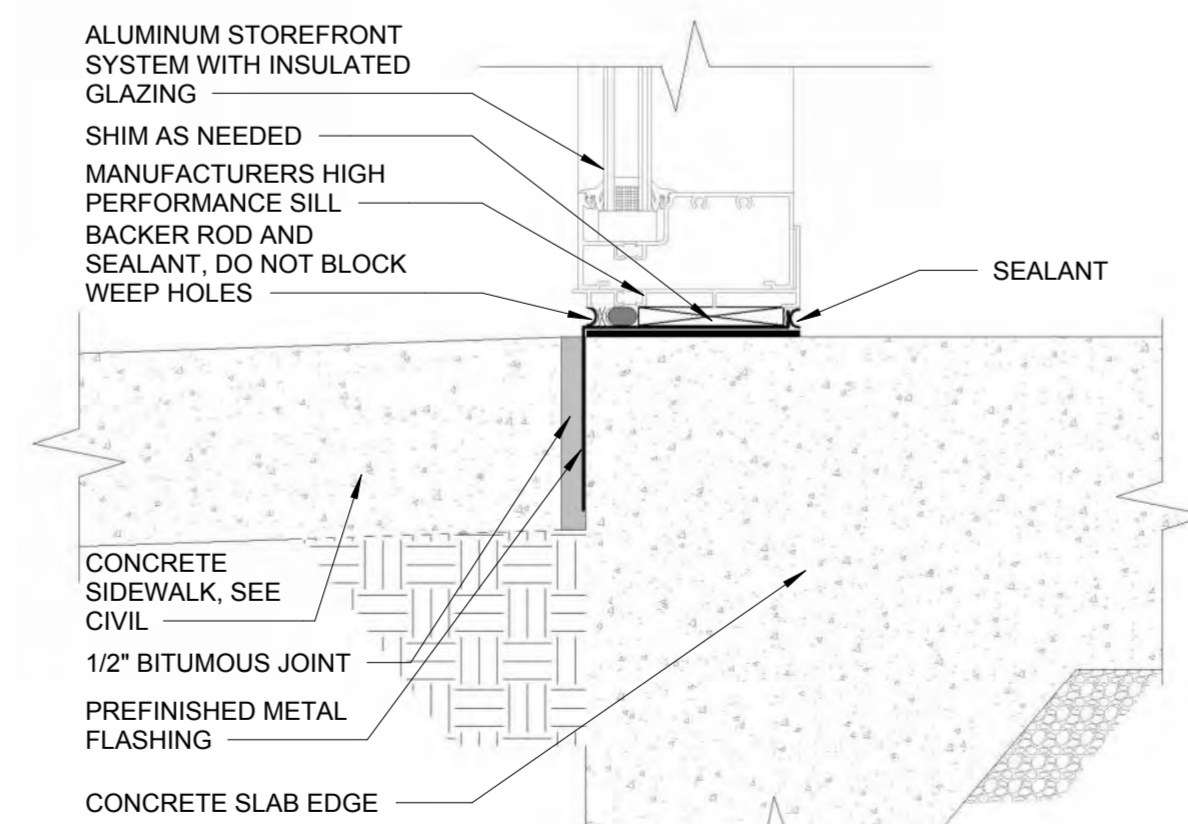
7 STOREFRONT WINDOW JAMB
3" = 1'-0"



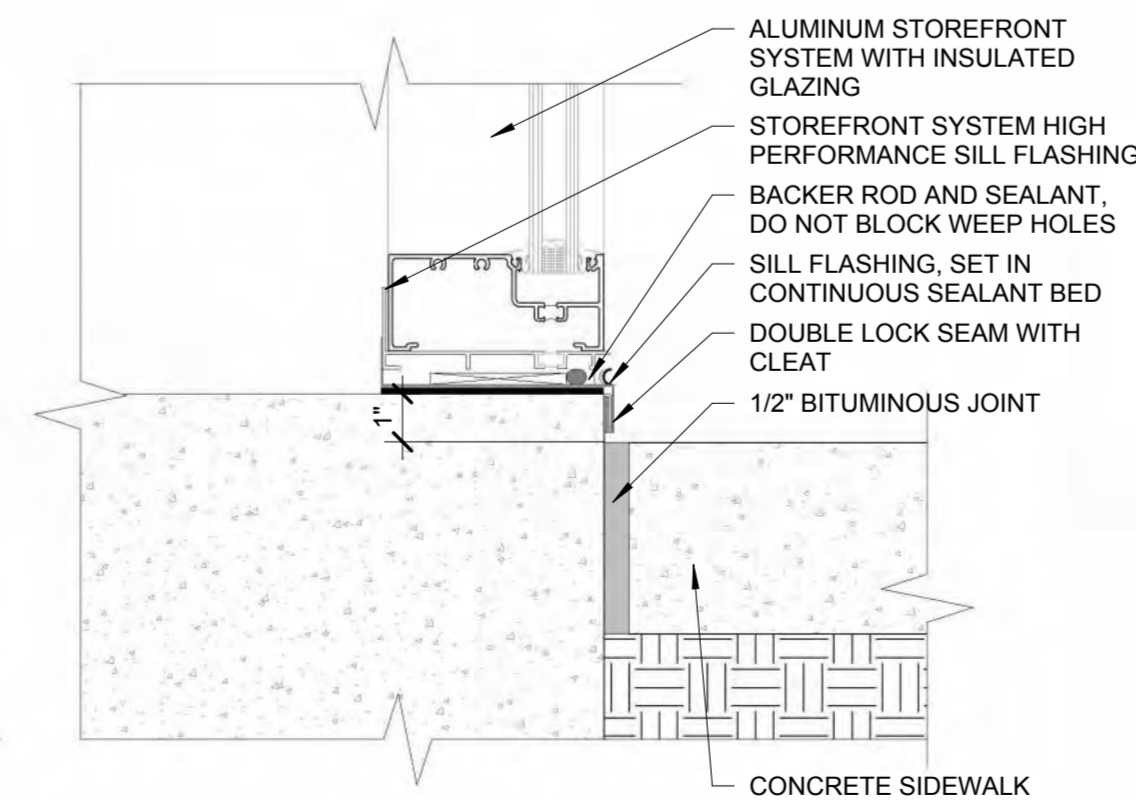
8 STOREFRONT WINDOW JAMB
3" = 1'-0"



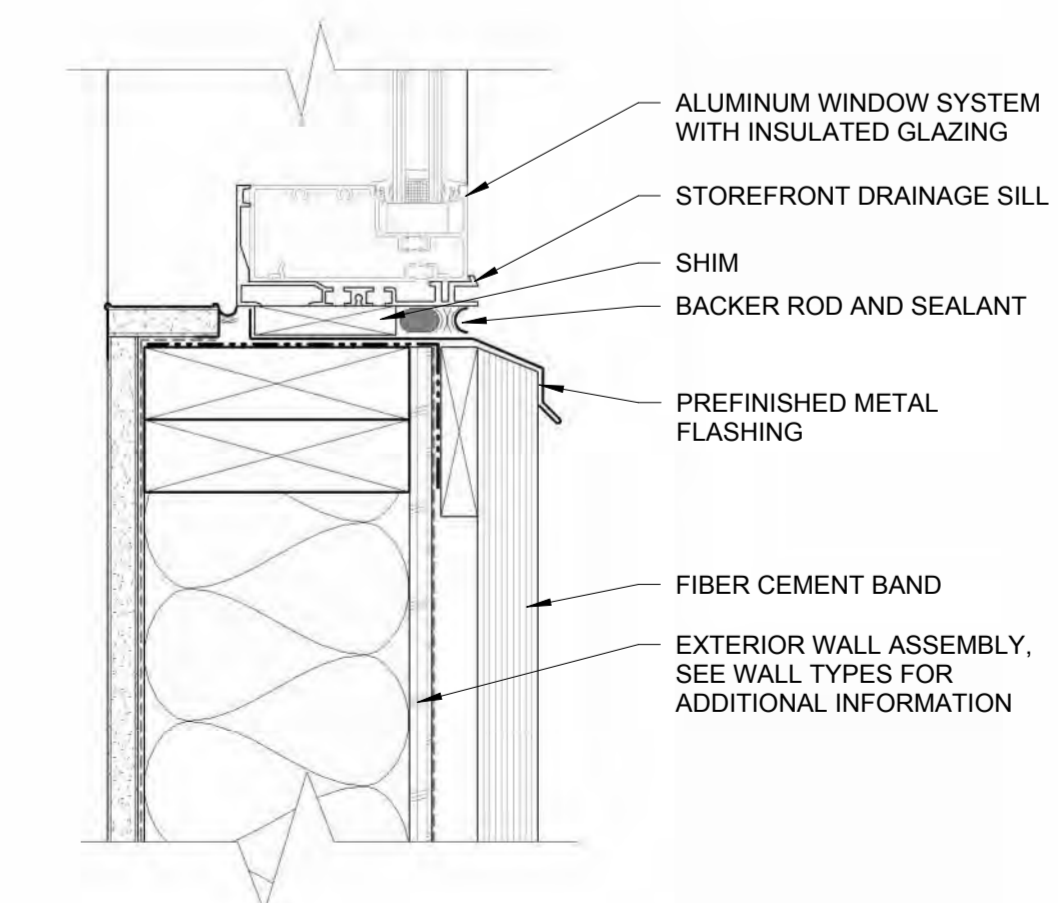
9 HM DOOR SILL
3" = 1'-0"



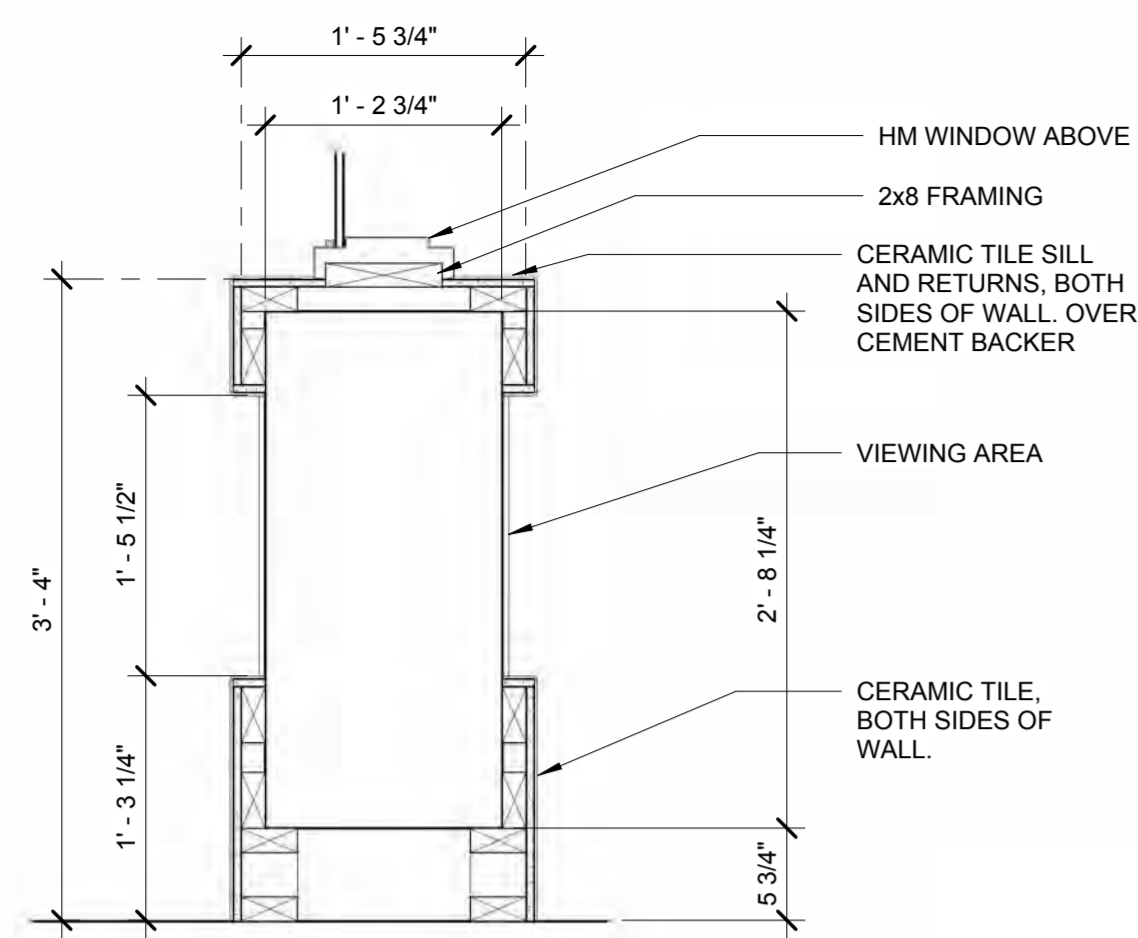
10 STOREFRONT SILL
3" = 1'-0"



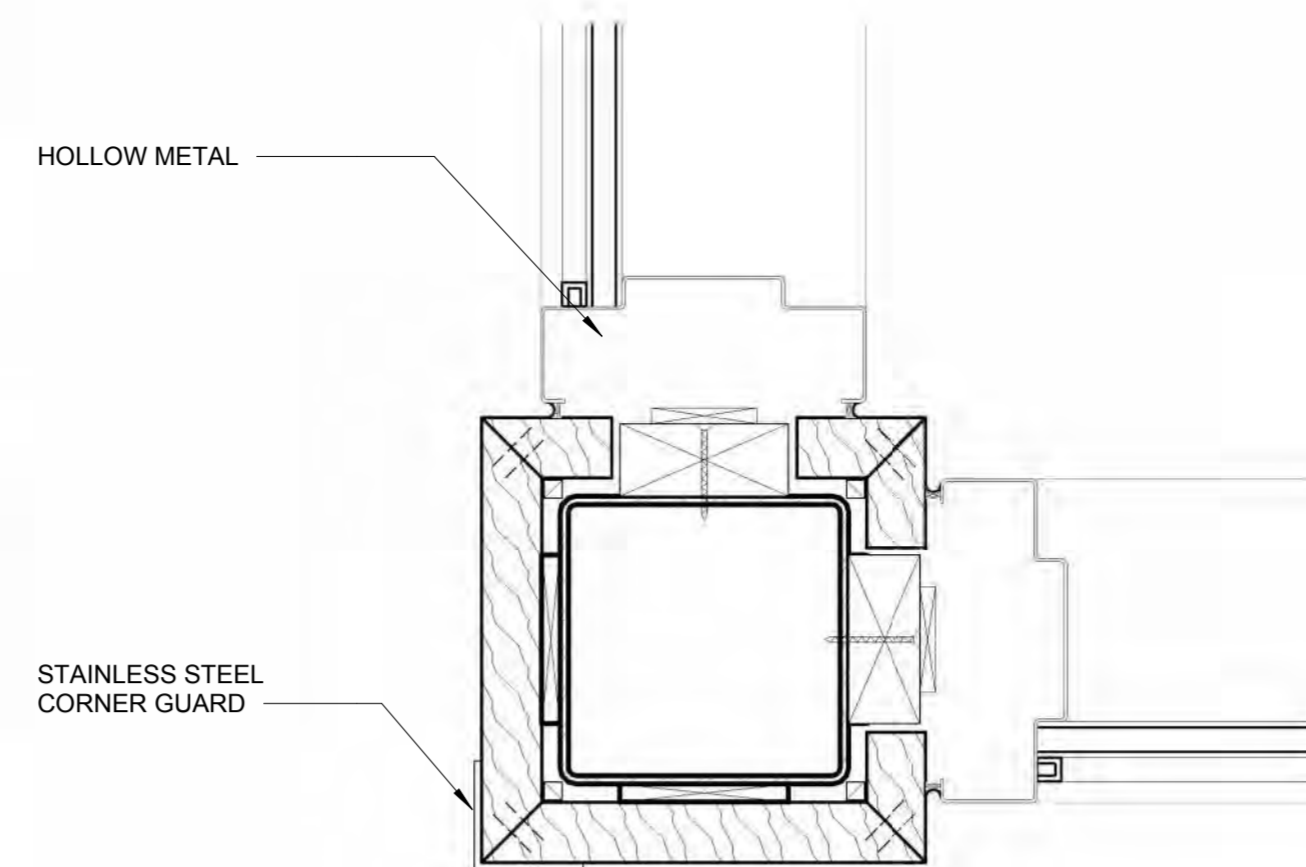
11 STOREFRONT SILL
3" = 1'-0"



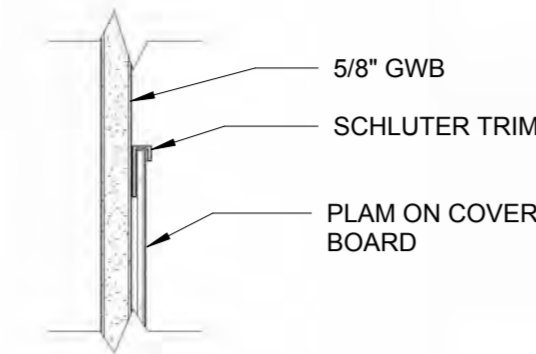
12 STOREFRONT WINDOW SILL
3" = 1'-0"



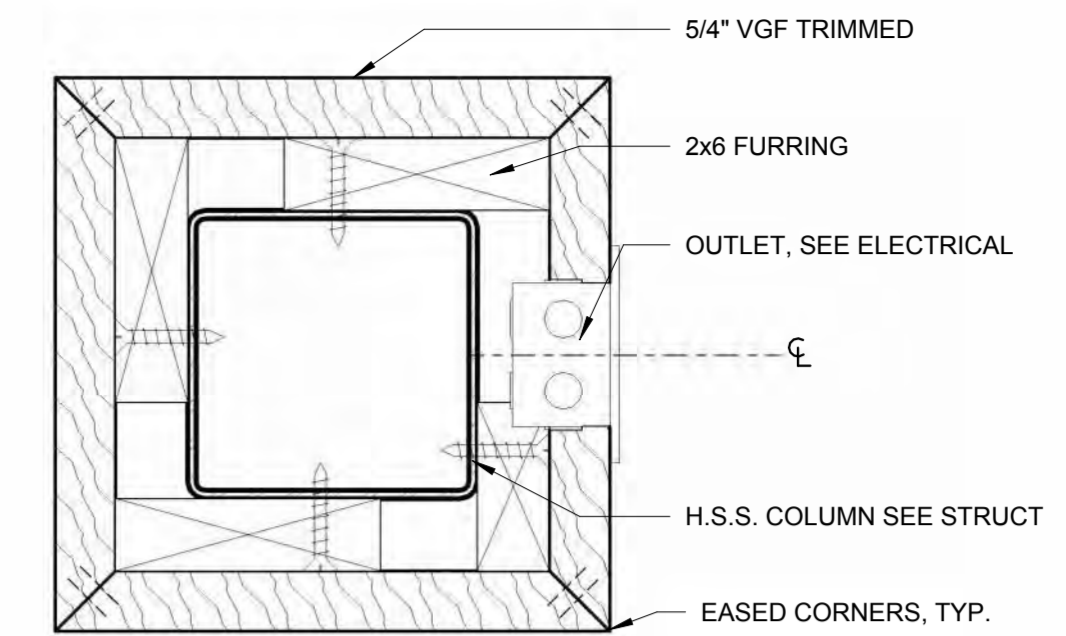
1 FIREPLACE SECTION
1" = 1'-0"



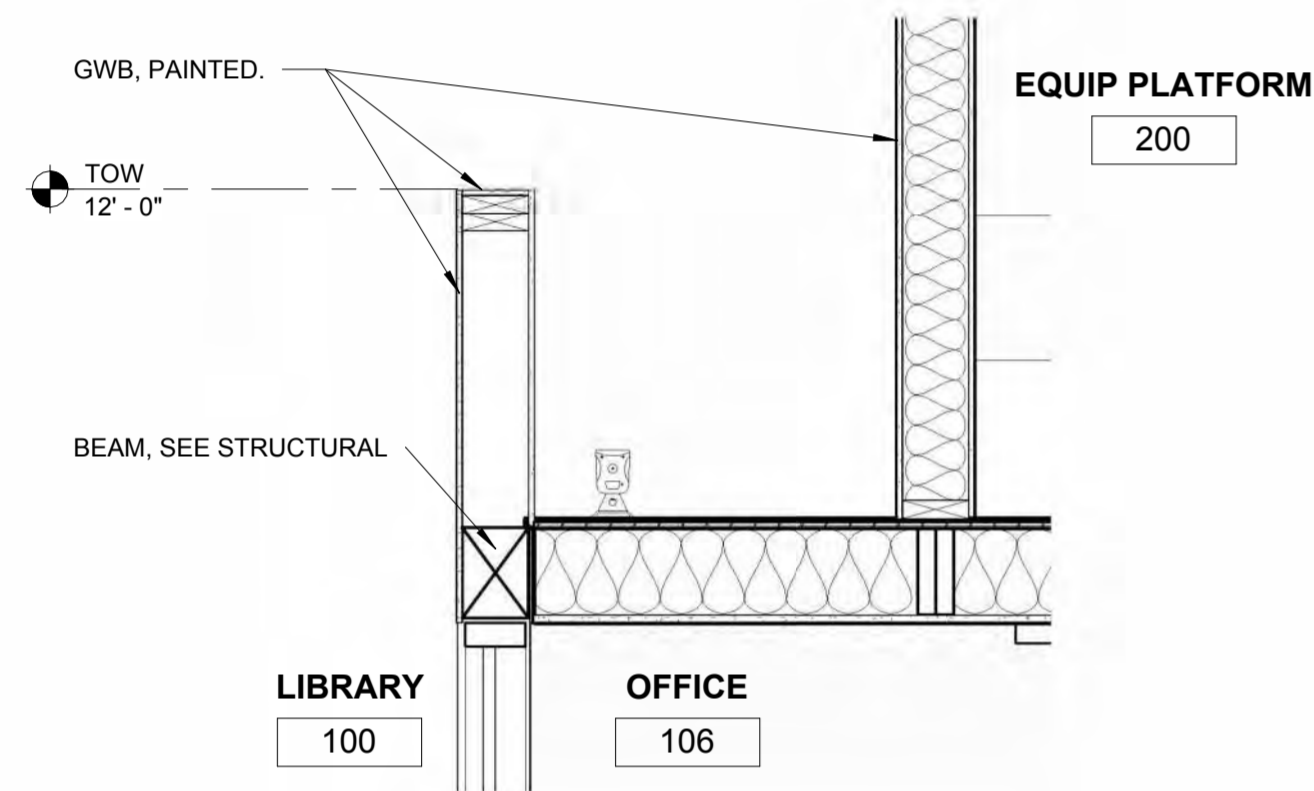
2 COLUMN CORNER OFFICE DETAIL
3" = 1'-0"



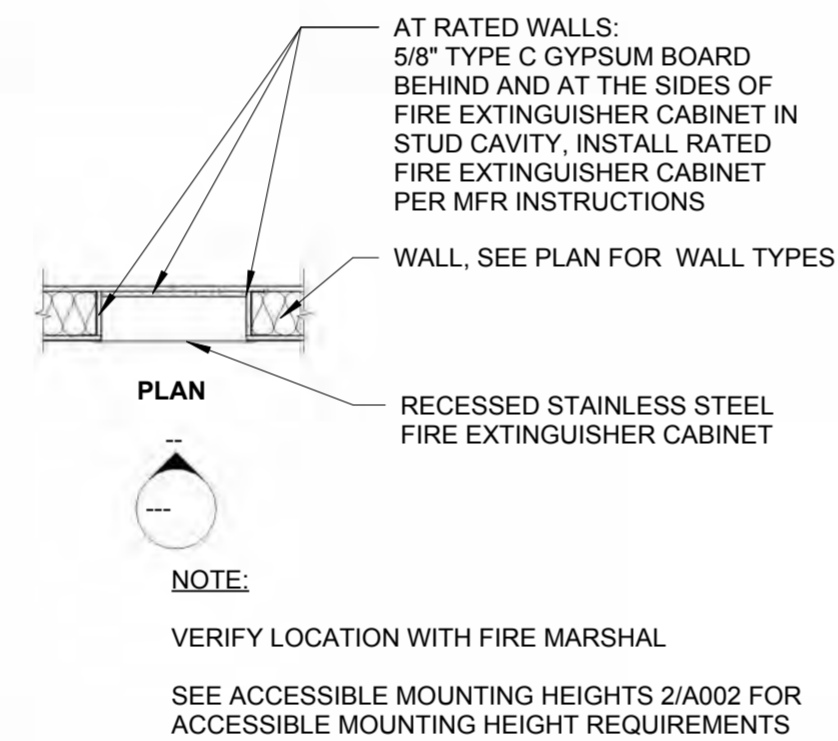
3 PLAM TRIM DETAIL
3" = 1'-0"



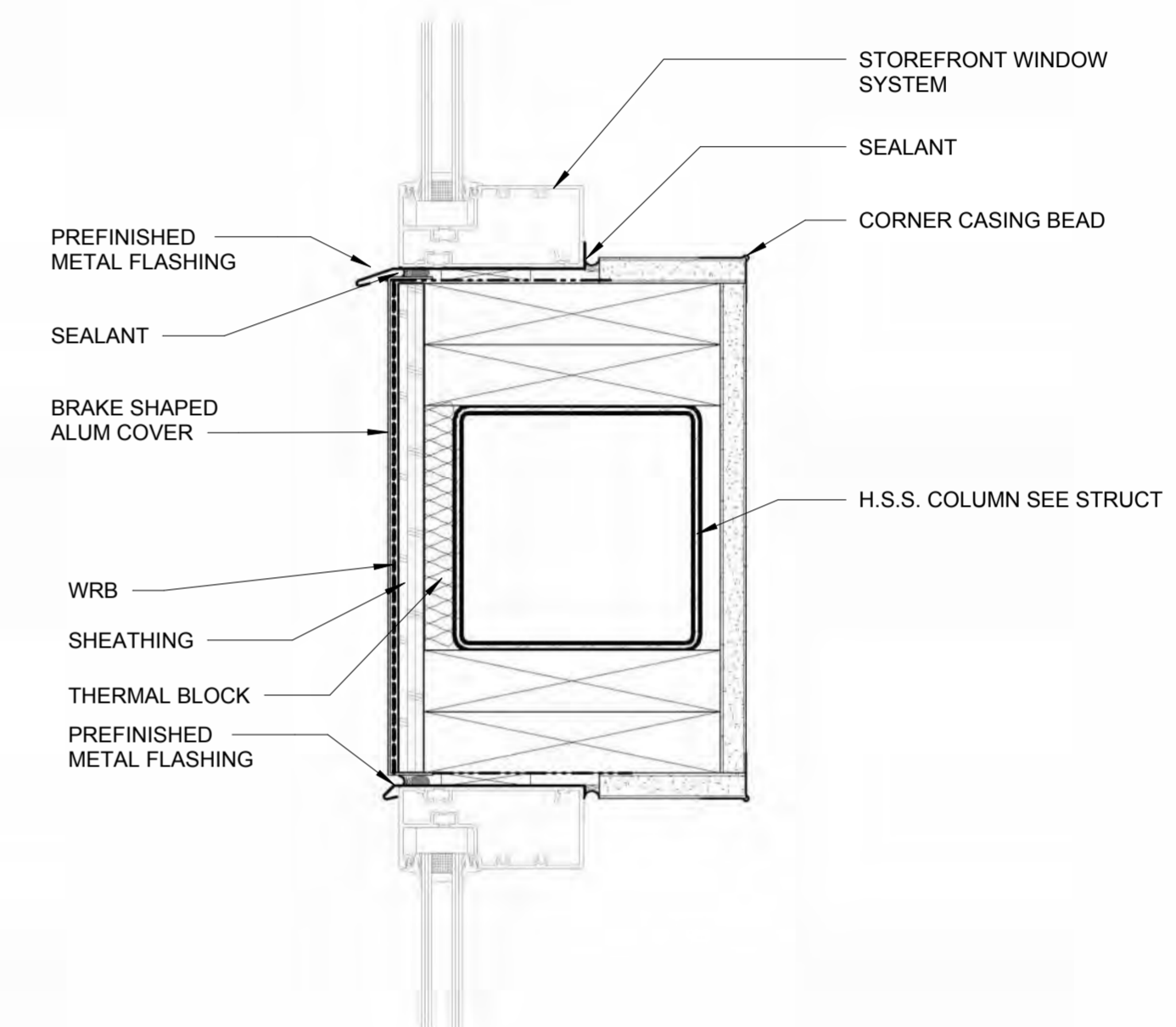
4 COLUMN TRIM DETAIL
3" = 1'-0"



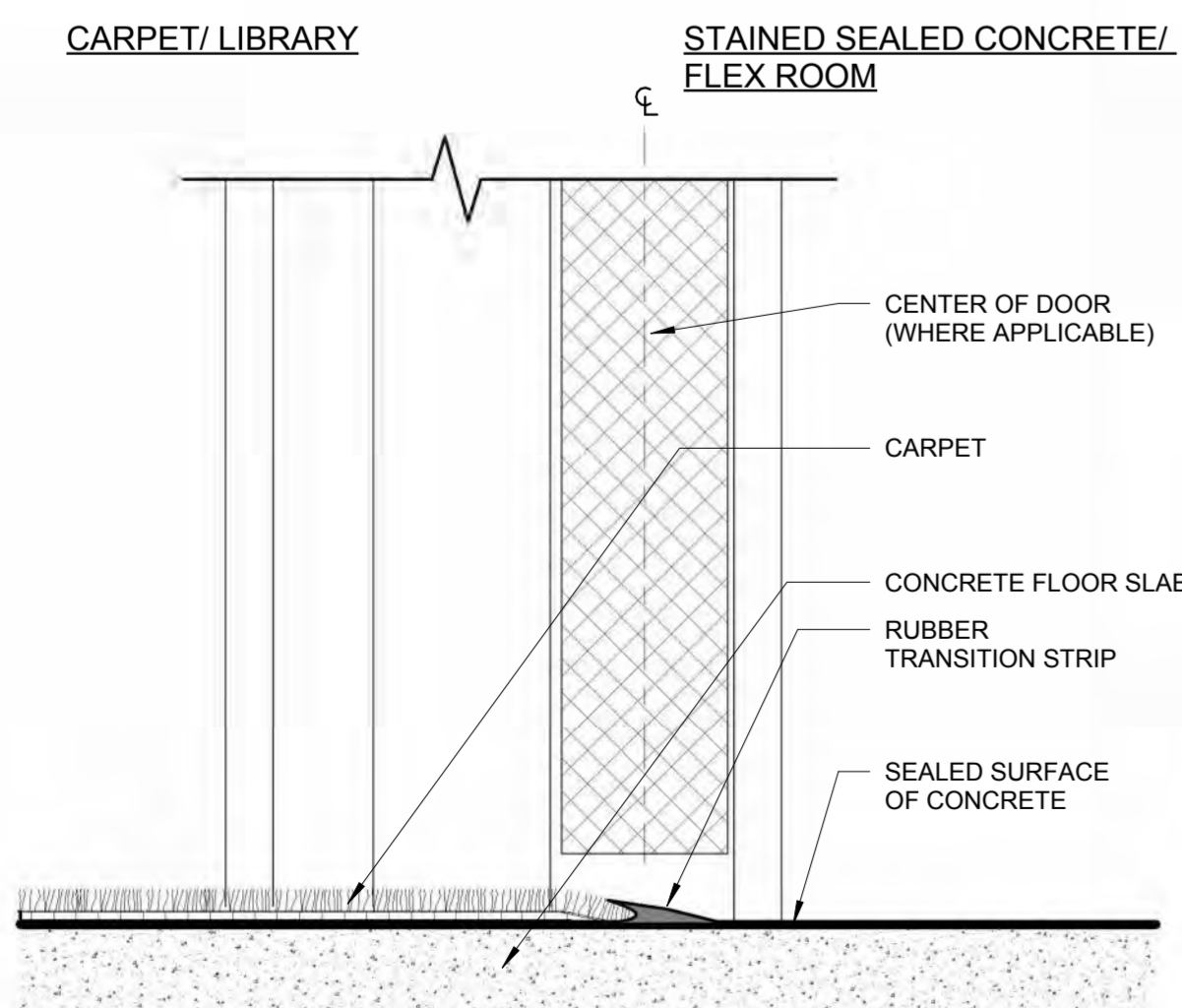
5 OFFICE CEILING SECTION DETAIL
3/4" = 1'-0"



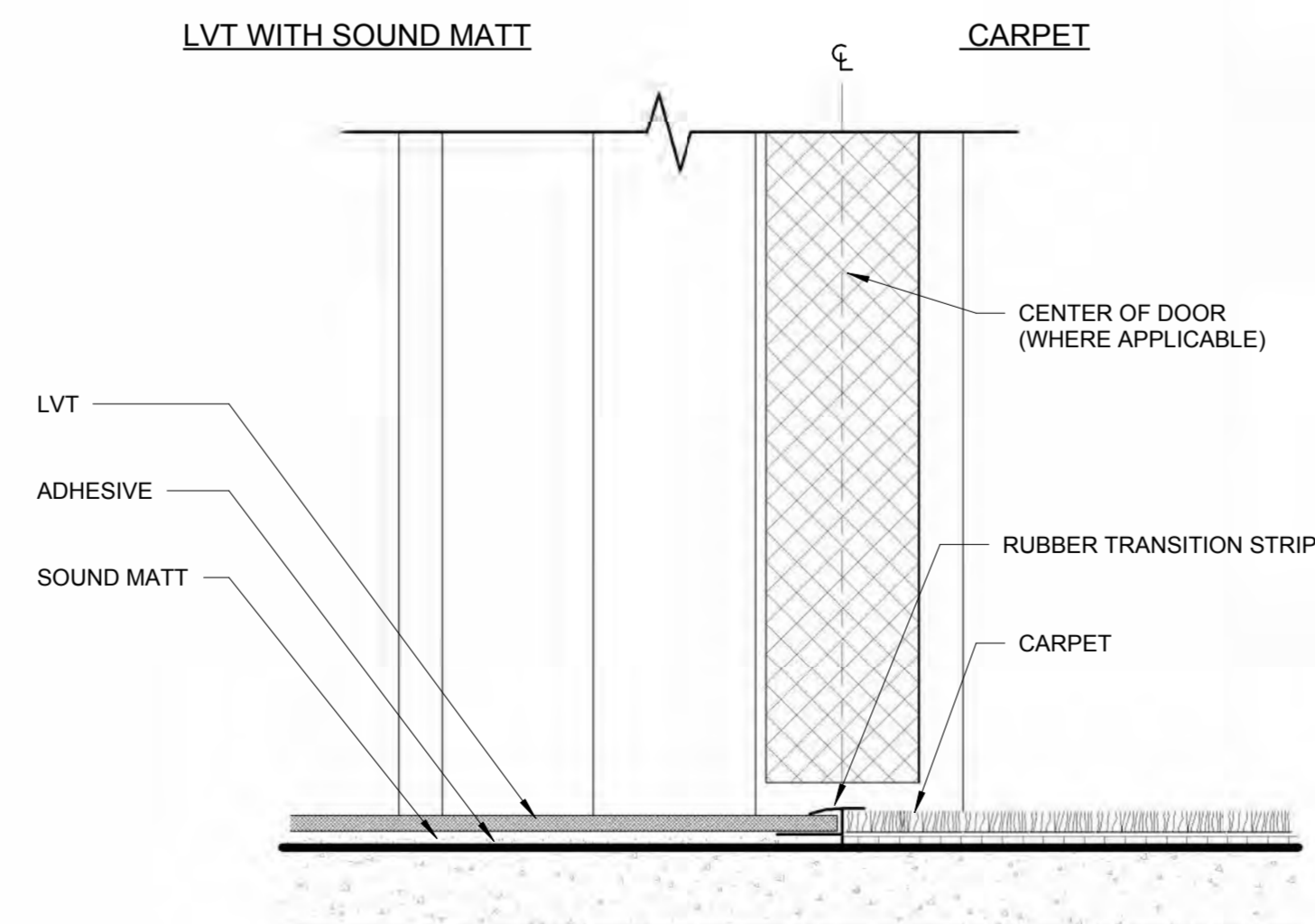
6 RECESSED FEC
1/2" = 1'-0"



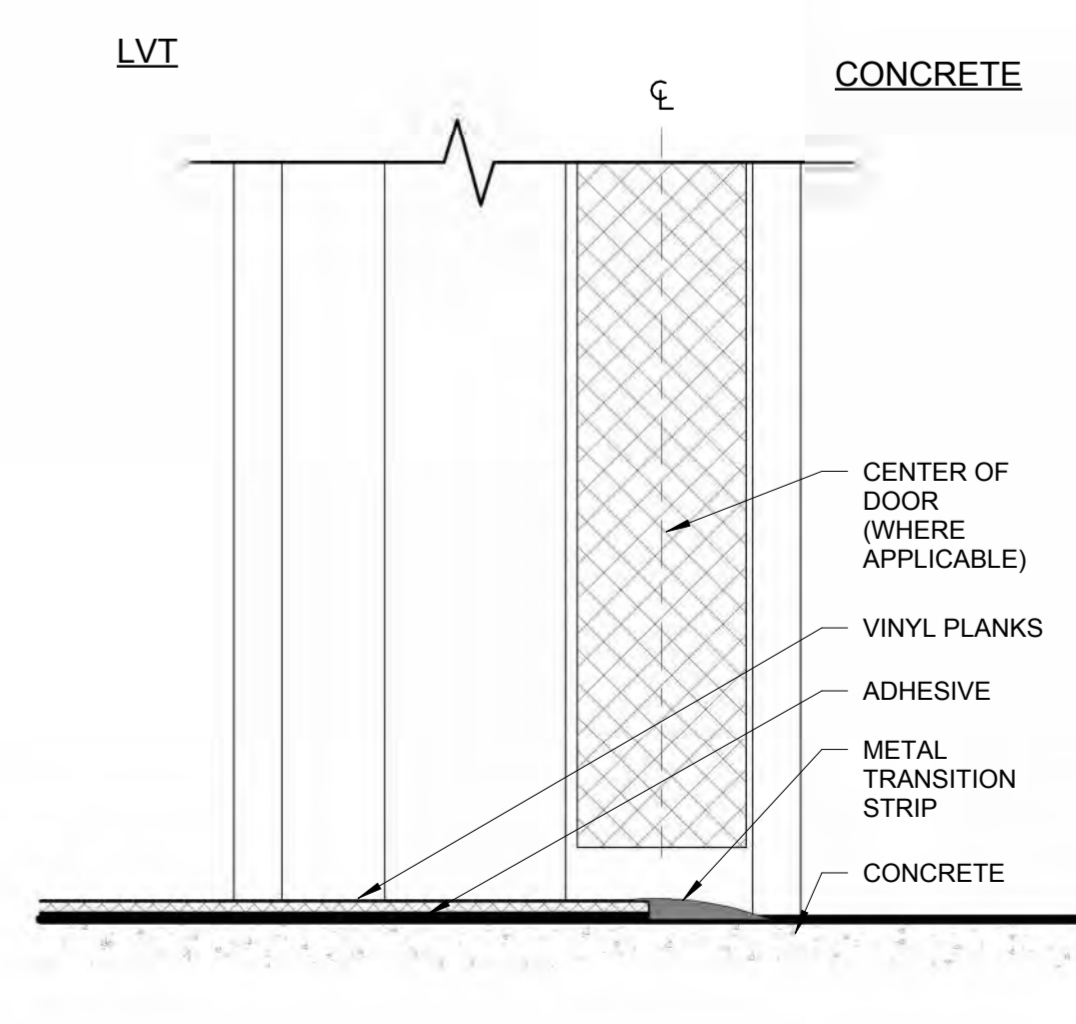
8 COL. STOREFRONT JAMB WINDOW DETAIL
3" = 1'-0"



9 FLOOR TRANSITION CPT TO CONC
6" = 1'-0"



10 FLOOR TRANSITION LVT TO CPT
6" = 1'-0"



11 FLOOR TRANSITION LVT TO CONCRETE
6" = 1'-0"

GENERAL NOTES

THESE GENERAL NOTES ARE TO BE USED AS A SUPPLEMENT TO THE SPECIFICATIONS. ANY DISCREPANCIES FOUND AMONG THE DRAWINGS, THE SPECIFICATIONS, THESE GENERAL NOTES AND THE SITE CONDITIONS SHALL BE REPORTED TO THE ARCHITECT, WHO SHALL CORRECT SUCH DISCREPANCY IN WRITING. ANY WORK DONE BY THE GENERAL CONTRACTOR AFTER DISCOVERY OF SUCH DISCREPANCY SHALL BE DONE AT THE GENERAL CONTRACTOR'S RISK. THE GENERAL CONTRACTOR SHALL VERIFY AND COORDINATE DIMENSIONS AMONG ALL DRAWINGS PRIOR TO PROCEEDING WITH ANY WORK OR FABRICATION. THE STRUCTURE HAS BEEN DESIGNED TO RESIST CODE SPECIFIED VERTICAL AND LATERAL FORCES AFTER THE CONSTRUCTION OF ALL STRUCTURAL ELEMENTS HAS BEEN COMPLETED. STABILITY OF THE STRUCTURE PRIOR TO COMPLETION IS THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THIS RESPONSIBILITY INCLUDES BUT IS NOT LIMITED TO JOB SITE SAFETY; ERECTION MEANS, METHODS, AND SEQUENCES; TEMPORARY SHORING, FORMWORK, BRACING; USE OF EQUIPMENT AND CONSTRUCTION PROCEDURES. PROVIDE ADEQUATE RESISTANCE TO LOADS ON THE STRUCTURES DURING CONSTRUCTION PER SEI/ASCE STANDARD NO. 37-14 "DESIGN LOADS ON STRUCTURES DURING CONSTRUCTION."

CONSTRUCTION OBSERVATION BY THE STRUCTURAL ENGINEER IS FOR GENERAL CONFORMANCE WITH DESIGN ASPECTS ONLY AND IS NOT INTENDED IN ANY WAY TO REVIEW THE CONTRACTOR'S CONSTRUCTION PROCEDURES.

STANDARDS

ALL METHODS, MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE 2018 INTERNATIONAL BUILDING CODE (IBC) AS AMENDED AND ADOPTED BY THE LOCAL BUILDING OFFICIAL OR APPLICABLE JURISDICTION.

CONTRACT DRAWINGS / DIMENSIONS

ARCHITECTURAL DRAWINGS ARE THE PRIME CONTRACT DRAWINGS. CONSULTANT DRAWINGS BY OTHER DISCIPLINES ARE SUPPLEMENTARY TO ARCHITECTURAL DRAWINGS. REPORT DIMENSIONAL OMISSIONS OR DISCREPANCIES BETWEEN ARCHITECTURAL DRAWINGS AND STRUCTURAL, MECHANICAL, ELECTRICAL OR CIVIL DRAWINGS TO ARCHITECT PRIOR TO PROCEEDING WITH WORK.

STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS. PRIMARY STRUCTURAL ELEMENTS ARE DIMENSIONED ON STRUCTURAL PLANS AND DETAILS AND OVERALL LAYOUT OF STRUCTURAL PORTION OF WORK. SOME SECONDARY ELEMENTS ARE NOT DIMENSIONED, SUCH AS WALL CONFIGURATIONS, INCLUDING EXACT DOOR AND WINDOW LOCATIONS, ALCOVES, SLAB SLOPES AND DEPRESSIONS, CURBS, ETC. VERTICAL DIMENSIONAL CONTROL IS DEFINED BY ARCHITECTURAL WALL SECTIONS AND BUILDING SECTIONS. STRUCTURAL DETAILS SHOW DIMENSIONAL RELATIONSHIPS TO CONTROL DIMENSIONS DEFINED BY ARCHITECTURAL DRAWINGS. DETAILING AND SHOP DRAWING PRODUCTION FOR STRUCTURAL ELEMENTS WILL REQUIRE DIMENSIONAL INFORMATION CONTAINED IN BOTH ARCHITECTURAL AND STRUCTURAL DRAWINGS.

DESIGN CRITERIA

VERTICAL LOADS

AREA	DESIGN DEAD LOAD	LIVE LOAD (2)	PARTITION LOAD	CONCENTRATED LOADS
ROOF	15 PSF +5 PSF SOLAR	58 PSF (1)		300#
MECHANICAL ROOM	15 PSF	40 PSF	+EQUIPMENT	

(1) DRIFT AND UNBALANCED SNOW LOAD PER ASCE 7-16, CHAPTER 7. FOR SNOW DRIFT MAP SEE ROOF PLAN

SNOW: (MINIMUM ROOF SNOW LOAD = 25 PSF)

Pg = 92 PSF = GROUND SNOW LOAD
 Pf = 0.7CeCtIsPg = FLAT ROOF SNOW LOAD
 Ps = CsPf = SLOPED ROOF SNOW LOAD
 Is = 1.0 Ce = 1.0, Ct = 1.0, Cs = VARIES

LATERAL FORCES

LATERAL FORCES ARE TRANSMITTED BY DIAPHRAGM ACTION OF ROOF AND FLOORS TO SHEAR WALLS. LOADS ARE THEN TRANSFERRED TO FOUNDATION BY SHEAR WALL ACTION WHERE ULTIMATE DISPLACEMENT IS RESISTED BY PASSIVE PRESSURE OF EARTH AND/OR SLIDING FRICTION. OVERTURNING IS RESISTED BY DEAD LOAD OF THE STRUCTURE.

WIND:

THE BUILDING MEETS THE CRITERIA TO USE THE "ENCLOSED, PARTIALLY ENCLOSED, AND OPEN BUILDING OF ALL HEIGHTS PROCEDURE" PER ASCE 7-16.

- EXPOSURE CATEGORY = C
- BASIC WIND SPEED, (3 SEC. GUST), V_{ULT} = 100 MPH; V_{ASD} = 85 MPH
- RISK CATEGORY PER IBC TABLE 1604.5 = II
- TOPOGRAPHIC FACTOR K_{zt} = 1.0
- INTERNAL PRESSURE COEFFICIENT (ENCLOSED) = ± 0.18
- COMPONENTS AND CLADDING LOADS, SEE THE FOLLOWING TABLES:

ROOF SURFACES 1							
EFFECTIVE WIND AREA	POSITIVE PRESSURES (PSF)	NEGATIVE PRESSURES (PSF)					
		ZONE 3					
		ALL ZONES	1	2e	2n	2r	3e
10 SF	16.0	-38.4	-38.4	-61.3	-61.3	-61.3	-71.5
20 SF	16.0	-38.4	-38.4	-53.7	-53.7	-53.7	-60.2
50 SF	16.0	-33.0	-33.0	-43.6	-43.6	-43.6	-45.3
100 SF	16.0	-28.9	-28.9	-36.0	-36.0	-36.0	-45.3

WALL SURFACES 1				
EFFECTIVE WIND AREA	POSITIVE PRESSURE (PSF)	NEGATIVE PRESSURE (PSF)		
	ZONE 2			
	4	5	4	5
10 SF	27.0	27.0	-29.3	-36.1
20 SF	25.8	25.8	-28.1	-33.7
50 SF	24.2	24.2	-26.5	-30.5
100 SF	22.9	22.9	-25.2	-28.1
500 SF	20.1	20.1	-22.4	-22.4

ROOF OVERHANGS 1						
EFFECTIVE WIND AREA	NEGATIVE PRESSURE (PSF)					
	ZONE 3					
	1	2e	2n	2r	3e	3r
10 SF	-45.7	-45.7	-68.6	-68.6	-82.3	-87.6
20 SF	-45.7	-45.7	-63.9	-63.9	-71.2	-72.5
50 SF	-44.2	-44.2	-57.7	-57.7	-56.5	-52.6
100 SF	-43.0	-43.0	-53.1	-53.1	-45.4	-52.6
500 SF	-42.3	-42.3	-50.3	-50.3	-38.9	-52.6

- VALUES SHOWN IN TABLE ARE GROSS ULTIMATE WIND PRESSURES.
- WALL ZONES ARE AS DEFINED BY FIGURE 30.3-1 IN ASCE 7-16 FOR LOW RISE BUILDINGS.
- ROOF ZONES ARE AS DEFINED BY FIGURES 30.3-2 THROUGH 30.3-7 IN ASCE 7-16 FOR LOW RISE BUILDINGS.

SEISMIC: (ASCE 7-16) V = CsW

WHERE $Cs = \frac{S_{DS}}{\left(\frac{R}{I_e}\right)}$; WITH

Cs MINIMUM = 0.044 S_{DS}I_e ≥ 0.01

OR
 Cs MINIMUM = $\frac{0.5S_1}{\left(\frac{R}{I_e}\right)}$ FOR S₁ > 0.6g

Cs MAXIMUM = $T \left(\frac{R}{I_e}\right)$ FOR T ≤ T_L

OR
 Cs MAXIMUM = $\frac{S_{D1}T_L}{T^2 \left(\frac{R}{I_e}\right)}$ FOR T > T_L

SEISMIC IMPORTANCE FACTOR, I_e = 1.0
 RISK CATEGORY OF BUILDING PER IBC TABLE 1604.5 = II
 SPECTRAL RESPONSE ACCELERATIONS S_s = 1.07 & S₁ = 0.32
 SITE CLASS PER TABLE 20.3-1 = D
 DESIGN SPECTRAL RESPONSE ACCELERATIONS S_{DS} = 0.856 & S_{D1} = 0.427
 SEISMIC DESIGN CATEGORY = D
 W = EFFECTIVE SEISMIC WEIGHT OF BUILDING = 144 KIPS
 ANALYSIS PROCEDURE USED = EQUIVALENT LATERAL FORCE PROCEDURE
 SEISMIC FORCE-RESISTING SYSTEM PER TABLE 12.2-1:
 PLYWOOD SHEAR WALL
 RESPONSE MODIFICATION FACTOR, R = 6.5
 OVERSTRENGTH FACTOR, Ω = 3.0
 Cs = 0.132
 DESIGN BASE SHEAR V = 19 KIPS
 REDUNDANCY FACTOR PER 12.3.4, ρ = 1.0

PIPES, DUCTS AND MECHANICAL EQUIPMENT SUPPORTED OR BRACED FROM STRUCTURE. CONFORM TO SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION, INC. PUBLICATION "SEISMIC RESTRAINT MANUAL: GUIDELINES FOR MECHANICAL SYSTEMS". SPRINKLER LINE ATTACHMENTS SHALL CONFORM TO NFPA PAMPHLET 13.

FOUNDATION DESIGN CRITERIA REFER TO GEOTECHNICAL REPORT BY COLUMBIA WEST ENGINEERING, INC.

ALLOWABLE SOIL BEARING PRESSURE: 2500 PSF *

- ACTIVE PRESSURE - RESTRAINED: 50 PCF +14H SEISMIC SURCHARGE (ASSUMED)
- ACTIVE PRESSURE - UNRESTRAINED: 35 PCF +6H SEISMIC SURCHARGE (ASSUMED)
- PASSIVE RESISTANCE: 350 PCF (INCLUDES F.O.S. ≥ 1.5)
- COEFFICIENT OF FRICTION: .35 (INCLUDES F.O.S. ≥ 1.5)
- *1/3 INCREASE ALLOWED FOR SEISMIC OR WIND LOADING
- STATIC DIFFERENTIAL SETTLEMENT: 1/2" MAX OVER 50 FEET PER GEO-TECHNICAL REPORT.

ALL FOOTINGS SHALL BEAR ON FIRM, UNDISTURBED EARTH OR "STRUCTURAL BACKFILL". NATIVE EARTH BEARING SHALL BE SURFACE COMPACTED. AREAS OVER-EXCAVATED SHALL BE BACKFILLED WITH LEAN CONCRETE (f_c = 2000 PSI) OR "STRUCTURAL BACKFILL". AREAS DESIGNATED "STRUCTURAL BACKFILL" SHALL BE FILLED WITH APPROVED WELL-GRADED BANKRUN MATERIAL. MAXIMUM SIZE OF ROCK 4". FROZEN SOIL, ORGANIC MATERIAL AND DELETERIOUS MATTER NOT ALLOWED. COMPACT TO AT LEAST 95% OF ITS MAXIMUM DENSITY AS DETERMINED BY ASTM D1557. CONTRACTOR SHALL EXERCISE EXTREME CARE DURING EXCAVATION TO AVOID DAMAGE TO BURIED LINES, TANKS, AND OTHER CONCEALED ITEMS. UPON DISCOVERY, DO NOT PROCEED WITH WORK UNTIL RECEIVING WRITTEN INSTRUCTIONS FROM ARCHITECT. A COMPETENT REPRESENTATIVE OF THE OWNER SHALL INSPECT ALL FOOTING EXCAVATIONS FOR SUITABILITY OF BEARING SURFACES PRIOR TO PLACEMENT OF REINFORCING STEEL. PROVIDE DRAINAGE AND DEWATERING AROUND ALL WORK TO AVOID WATER-SOFTENED FOOTINGS.

CONCRETE

CAST-IN-PLACE CONCRETE

CODES, SPECIFICATIONS, AND STANDARDS. CONCRETE WORK SHALL CONFORM TO THE FOLLOWING CODES, SPECIFICATIONS, AND STANDARDS, AND THE STANDARDS AND SPECIFICATIONS THEY REFERENCE. THE CONTRACTOR SHALL OBTAIN AND HAVE READILY AVAILABLE ON SITE THE LATEST VERSION OF THE "ACI MANUAL OF CONCRETE PRACTICE":

MIX DESIGNS: THE CONTRACTOR SHALL DESIGN CONCRETE MIXES THAT MEET OR EXCEED THE REQUIREMENTS OF THE CONCRETE MIX TABLE. ALL CONCRETE MIXES SHALL BE NORMAL WEIGHT, UNLESS NOTED OTHERWISE. THE MIX DESIGNS SHALL FACILITATE ANTICIPATED PLACEMENT METHODS, WEATHER, REBAR CONGESTION, ARCHITECTURAL FINISHES, CONSTRUCTION SEQUENCING, STRUCTURAL DETAILS, AND ALL OTHER FACTORS REQUIRED TO PROVIDE A STRUCTURALLY SOUND, AESTHETICALLY ACCEPTABLE FINISHED PRODUCT. WATER REDUCING ADMIXTURES WILL LIKELY BE REQUIRED TO MEET THESE REQUIREMENTS. CONCRETE MIX DESIGNS SHALL CLEARLY INDICATE THE TARGET SLUMP. SLUMP TOLERANCE SHALL BE ± 1-1/2 INCHES.

AGGREGATE: COARSE AND FINE AGGREGATE SHALL CONFORM TO ASTM C33

CEMENT: CEMENT SHALL CONFORM TO ASTM C150, TYPE II PORTLAND CEMENT OR ASTM C595 - TYPE IL PORTLAND LIMESTONE CEMENT, , UNLESS NOTED OTHERWISE.

FLYASH: SHALL CONFORM TO ASTM C618 CLASS C OR F, MAXIMUM LOSS OF IGNITION SHALL BE 1.0%.

SLAG: GROUND GRANULATED BLAST-FURNACE (GGBF) SLAG SHALL CONFORM TO ASTM C989 GRADE 100 OR 120.

ALTERNATE MIX DESIGNS: VARIATIONS TO THE MIX DESIGN PROPORTIONS MAY BE ACCEPTED IF SUBSTANTIATED IN ACCORDANCE WITH ACI 318, CHAPTER 19. PROVIDE SUBMITTALS A MINIMUM OF TWO WEEKS PRIOR TO BID FOR DETERMINATION OF ACCEPTABILITY.

ADMIXTURES: ADMIXTURES SHALL BE BY MASTER BUILDERS, W.R. GRACE, OR PRE-APPROVED EQUAL. ALL MANUFACTURER'S RECOMMENDATIONS SHALL BE FOLLOWED.

WATER: SHALL BE CLEAN AND POTABLE.

MAXIMUM CHLORIDE CONTENT: THE MAXIMUM WATER SOLUBLE CHLORIDE CONTENT SHALL NOT EXCEED 0.15% BY WEIGHT OF CEMENTITIOUS MATERIAL UNLESS NOTED OTHERWISE.

CONCRETE EXPOSED TO WEATHER: PROVIDE 5.0% TOTAL AIR CONTENT FOR ALL CONCRETE EXPOSED TO WEATHER. TOTAL AIR CONTENT IS THE SUM OF ENTRAINED AIR PROVIDED BY ADMIXTURES AND NATURALLY OCCURRING ENTRAPPED AIR. AIR CONTENT SHALL BE TESTED PRIOR TO BEING PLACED IN THE PUMP HOPPER OR BUCKET; IT IS NOT REQUIRED TO BE TESTED AT THE DISCHARGE END OF THE PUMP HOSE. THE TOLERANCE ON ENTRAPPED AIR SHALL BE +2.0% AND -1.5% WITH THE AVERAGE OF ALL TESTS NOT LESS THAN THE SPECIFIED AMOUNT.

TOTAL CEMENTITIOUS MATERIAL: THE SUM OF ALL CEMENT PLUS FLYASH AND SLAG. AT THE CONTRACTORS OPTION FLYASH OR SLAG MAY BE SUBSTITUTED FOR CEMENT BUT SHALL NOT EXCEED 25% BY WEIGHT OF TOTAL CEMENTITIOUS MATERIAL. IN NO CASE SHALL THE AMOUNT OF FLYASH OR SLAG BE LESS THAN REQUIRED BY THE CONCRETE MIX DESIGN TABLE. FOOTING MIXES SHALL CONTAIN NOT LESS THAN **5 SACKS** OF CEMENTITIOUS MATERIAL PER CUBIC YARD, ALL OTHER MIXES SHALL CONTAIN NOT LESS THAN **5-1/2 SACKS** OF CEMENTITIOUS MATERIAL PER CUBIC YARD, UNLESS NOTED OTHERWISE.

ITEM	DESIGN f _c (PSI) (AT 28 DAYS U.N.O.)	MAX. W/C RATIO	MIN. FLYASH OR SLAG (PCY)	AGGREGATE GRADING ASTM AASHTO	NOTES
SLAB ON GRADE - EXPOSED TO WEATHER	5000	0.40	100	57 OR 67	
SLABS ON GRADE - UNO	4000	0.45	100	57 OR 67	
ARCHITECTURALLY EXPOSED SLABS ON GRADE	4000	0.45	100	57 OR 67	1, 2.
FOUNDATIONS	3000	0.50	--	57 OR 67	
STEM WALLS AND OTHER WALLS EXPOSED TO EARTH OR WEATHER	4500	0.45	100	57 OR 67	
STEM WALLS AND OTHER WALLS - UNO	4000	0.50	100	57 OR 67	
ALL OTHER CONCRETE	4000	0.50	--	57 OR 67	

STRUCTURAL DRAWING INDEX	
SHEET NUMBER	SHEET DESCRIPTION
S001	GENERAL NOTES
S002	GENERAL NOTES
S003	GENERAL NOTES
S004	GENERAL NOTES
S100	PLAN NOTES
S202	FOUNDATION PLAN
S210	MEZZANINE/LOW ROOF FRAMING PLAN
S211	ROOF FRAMING PLAN
S301	FOUNDATION DETAILS
S302	FOUNDATION DETAILS
S303	FOUNDATION DETAILS
S304	FOUNDATION DETAILS
S401	WALL FRAMING DETAILS
S402	WALL FRAMING DETAILS
S403	WALL FRAMING DETAILS
S404	WALL FRAMING DETAILS
S501	FLOOR FRAMING DETAILS
S601	ROOF FRAMING DETAILS
S602	ROOF FRAMING DETAILS
Grand total: 19	



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GENERAL NOTES

PROJECT # 22048
 DATE 12/27/2023

REV #	DATE	DESCRIPTION



STATEMENT OF SPECIAL INSPECTIONS:

SPECIAL INSPECTION: SPECIAL INSPECTION SHALL BE PROVIDED PER THE REQUIREMENTS OF IBC SECTION 1704 AND 1705 AND AS NOTED HEREIN.

STRUCTURAL SYSTEM	VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	COMMENTS	REFERENCES	
SOILS	VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY		X		IBC 1705.6	
	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL		X			
	PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS		X			
	VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	X			IBC 1705.8	
	PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY		X			
	CONSTRUCTION OF AGGREGATE PIER	X				
STEEL CONSTRUCTION	MATERIAL VERIFICATION OF STRUCTURAL STEEL A. FOR STRUCTURAL STEEL, IDENTIFICATION MARKINGS TO CONFORM TO AISC 360 B. MANUFACTURER'S CERTIFIED MILL TEST REPORTS		X	MANUFACTURER TO PROVIDE CERTIFIED MILL TEST REPORTS	AISC 360 CHAPTER N5 AISC 341 CHAPTER J6	
	MATERIAL VERIFICATION OF WELD FILLER MATERIALS A. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATIONS LISTED IN GENERAL NOTES B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE		X	MANUFACTURER TO PROVIDE CERTIFICATE OF COMPLIANCE	AISC 360 CHAPTER N5	
	INSPECTION OF WELDING A. COMPLETE AND PARTIAL JOINT PENETRATION GROOVE WELDS B. MULTI-PASS FILLET WELDS C. SINGLE-PASS FILLET WELDS > 5/16" D. PLUG AND SLOT WELDS E. SINGLE-PASS FILLET WELDS ≤ 5/16"	X X X X		X	SPECIAL INSPECTIONS IN THIS SECTION MAY BE WAIVED WHERE FABRICATION IS PERFORMED ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED IN ACCORDANCE WITH IBC SECTION 1704.2.5 AND WITH APPROVAL OF THE BUILDING OFFICIAL.	AISC 360 CHAPTER N5 AISC 341 CHAPTER J6 AWS D1.1
	CONCRETE					
CONCRETE	INSPECT REINFORCEMENT, INCLUDING PRE-STRESSING TENDONS, AND VERIFY PLACEMENT		X		ACI 318: CH 20, 25.2, 25.3, 26.6-1 TO 26.6-3, IBC 1908.4	
	ANCHORS CAST IN CONCRETE-PRIOR TO AND DURING PLACEMENT OF CONCRETE		X		ACI 318: 17.8.2 AISC 360 SECTION N7	
	VERIFY USE OF REQUIRED DESIGN MIX		X		ACI 318, CH 19	
	PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X			ASTM C172, C31 ACI 318: 26.4, 26.12 IBC 1908.10	
	CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION	X			ACI 318: 26.5 IBC 1908.6, 1908.7, 1908.8	
	MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES		X		ACI 318: 26.5.3 TO 26.5.5 IBC 1908.9	
	ANCHORS POST-INSTALLED IN HARDENED CONCRETE (MECHANICAL ANCHORS INSTALLED IN ANY DIRECTION AND ADHESIVE ANCHORS INSTALLED DOWNWARD)		X		ACI 318: 17.8.2 MFR EVAL REPORT MFR PUBLISHED INSTALLATION INSTRUCTIONS	
	ANCHORS POST-INSTALLED IN HARDENED CONCRETE (ADHESIVE ANCHORS INSTALLED HORIZONTAL OR UPWARDLY INCLINED)	X			ACI 318: 17.8.2 MFR EVAL REPORT MFR PUBLISHED INSTALLATION INSTRUCTIONS	
	VERIFICATION OF IN-SITU CONCRETE STRENGTH PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS		X		ACI 318: 26.11.2	
	INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED		X		ACI 318: 26.11.1.2(b)	
TESTING OF MATERIALS		X		IBC 1705.3.2		
WOOD FRAMING	SHEAR WALL NAILING		X		IBC 1705.11.1, 1705.12.2, 1705.5	
	DIAPHRAGM NAILING		X		IBC 1705.11.1, 1705.12.2, 1705.5	
	NAILING, BOLTING, AND ANCHORAGE OF COMPONENTS THAT ARE PART OF DRAG STRUTS, BRACES AND HOLD-DOWNS THAT ARE PART OF THE SEISMIC RESISTING SYSTEM		X		IBC 1705.11.1, 1705.12.2	
SUSPENDED CEILINGS	ANCHORAGE AND SEISMIC BRACING		X			

TESTING AND SPECIAL INSPECTION REPORTS SHALL BE PREPARED FOR EACH INSPECTION ITEM ON A DAILY BASIS WHENEVER WORK IS PERFORMED ON THAT ITEM. REPORTS SHALL BE DISTRIBUTED TO OWNER, CONTRACTOR, BUILDING OFFICIAL, ARCHITECT AND STRUCTURAL ENGINEER OF RECORD.

STRUCTURAL OBSERVATIONS SHALL BE PERFORMED BY THE STRUCTURAL ENGINEER OF RECORD OR DESIGNATED REPRESENTATIVE IN ACCORDANCE WITH IBC 1704.6. STRUCTURAL OBSERVATION SHALL BE PERFORMED AS FOLLOWS:

- » PERIODIC VISUAL OBSERVATION OF STRUCTURAL SYSTEMS FOR GENERAL CONFORMANCE TO CONSTRUCTION DOCUMENTS AT SIGNIFICANT CONSTRUCTION STAGES.
- » REVIEW OF TESTING AND INSPECTION REPORTS.
- » REPORTS SHALL BE PREPARED FOR EACH SITE VISIT AND SHALL BE DISTRIBUTED TO ARCHITECT.

GENERAL CONTRACTOR SHALL SUBMIT A WRITTEN CONTRACTOR'S STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND OWNER PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL INCLUDE ACKNOWLEDGMENT OF AWARENESS OF THE SPECIAL INSPECTION REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTION.

ABBREVIATION LIST					
⊙	AT	EL.	ELEVATION	MTL	METAL
A.B.	ANCHOR BOLT	ELEV.	ELEVATOR	N.F.	NEAR FACE
ADD'L	ADDITIONAL	ENGR	ENGINEER	N.S.	NEAR SIDE
A.F.F.	ABOVE FINISH FLOOR	EQ.	EQUAL	NTS	NOT TO SCALE
ALT.	ALTERNATE	E.W.	EACH WAY	O.C.	ON CENTER
ARCH.	ARCHITECTURAL	EXP.	EXPANSION	OPN'G	OPENING
BLD'G	BUILDING	EXT.	EXTERIOR	OPP.	OPPOSITE
BLK'G	BLOCKING	FDN	FOUNDATION	P.A.F.	POWDER ACTUATED FASTENER
BM	BEAM	F.F.	FAR FACE	PERP.	PERPENDICULAR
B.O.F.	BOTTOM OF FOOTING	FLR	FLOOR	PL	PLATE
BOT.	BOTTOM	F.O.M.	FACE OF MASONRY	P.P.	PARTIAL PENETRATION
BRB	BUCKLING RESTRAINED BRACE	F.O.S.	FACE OF STUD	P.P.T.	PRESERVATIVE PRESSURE TREATED
BRG	BEARING	FRMG	FRAMING	P.S.F.	POUNDS PER SQUARE FOOT
BTWN	BETWEEN	F.R.T.	FIRE RETARDANT TREATED	PSL	PARALLAM
BU.	BUILT UP	F.S.	FAR SIDE	P.T.	POST TENSION
(C=)	CAMBER	FTG	FOOTING	PN.	PLYWOOD
CANT.	CANTILEVER	GA.	GAGE/GAUGE	REINF.	REINFORCEMENT
CFS	COLD-FORMED STEEL	GALV.	GALVANIZED	REQ'D	REQUIRED
C.J.	CONTROL/CONSTRUCTION JOINT	GL.	GLULAM	SCHED.	SCHEDULE
CL	CENTERLINE	GR.	GRADE	SCL	STRUCTURAL COMPOSITE LUMBER
CLR.	CLEARANCE	GWB	GYPSTUM WALL BOARD	SHT'G	SHEATHING
CMU	CONCRETE MASONRY UNIT	HDR	HEADER	SIM.	SIMILAR
COL.	COLUMN	HGR	HANGER	S.O.G.	SLAB ON GRADE
CONC.	CONCRETE	HORIZ.	HORIZONTAL	SQ.	SQUARE
CONN.	CONNECTION	HSS	HOLLOW STRUCTURAL SECTION	STD	STANDARD
CONST.	CONSTRUCTION	HT	HEIGHT	STIFF.	STIFFENER
CONT.	CONTINUOUS	INT.	INTERIOR	STL	STEEL
CONTR.	CONTRACTOR	JST	JOIST	STRUCT.	STRUCTURAL
COORD.	COORDINATE	JT	JOINT	T&B	TOP & BOTTOM
C.P.	COMPLETE PENETRATION	L	ANGLE	T&G	TONGUE AND GROOVE
CTR'D	CENTERED	L.F.R.S.	LATERAL FORCE-RESISTING SYSTEM	THR'D	THREADED
C.Y.	CUBIC YARD	L.L.	LIVE LOAD	T.O.F.	TOP OF FOOTING
DBL.	DOUBLE	LLH	LONG LEG HORIZONTAL	T.O.S.	TOP OF STEEL
DCW	DEMAND CRITICAL WELD	LLV	LONG LEG VERTICAL	TRT'D	TREATED
D.F.	DOUGLAS FIR	LOC.	LOCATION	TYP.	TYPICAL
DIA. OR Ø	DIAMETER	LSL	LAMINATED STRAND LUMBER	U.N.O.	UNLESS NOTED OTHERWISE
DIAG.	DIAGONAL	LVL	LAMINATED VENEER LUMBER	U.T.	ULTRASONIC TESTED
DIM.	DIMENSION	MAX.	MAXIMUM	VERT.	VERTICAL
D.L.	DEAD LOAD	M.B.	MACHINE BOLT	W	WITH
DWG	DRAWING	MECH.	MECHANICAL	W.P.	WORK POINT
DWL	DOWEL	MEZZ.	MEZZANINE	WT	WEIGHT
(E)	EXISTING	MFR	MANUFACTURER	W.W.R.	WELDED WIRE REINFORCING
EA.	EACH	MIN.	MINIMUM		
E.F.	EACH FACE	MISC.	MISCELLANEOUS		



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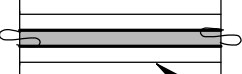

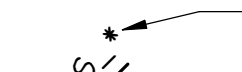
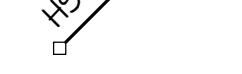
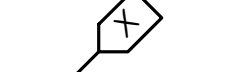
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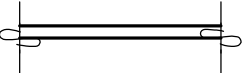
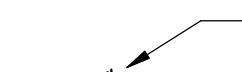

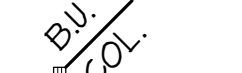



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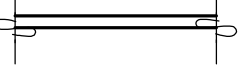
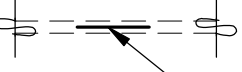






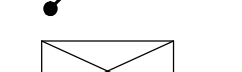
FOUNDATION

- COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS. FINISH FLOOR = 0'-0" ABOVE FINISH FLOOR UNLESS NOTED OTHERWISE.
-  INDICATES CONCRETE STEM WALL.
-  INDICATES CONCRETE WALL FOOTING 1'-6" WIDE UNLESS NOTED OTHERWISE - SEE 4/5303 FOR TYPICAL FOOTING DETAILS. TOP OF FOOTING IS -1'-0" UNLESS NOTED OTHERWISE.
- "F_" INDICATES CONCRETE SPREAD FOOTING - SEE 5/5302 FOR SCHEDULE.
-  INDICATES ANCHOR BOLTS THAT EXTEND TO WITHIN 3" OF BOTTOM OF FOOTING.
-  INDICATES HOLLOW STRUCTURAL SECTION COLUMNS ORIGINATING AT FOUNDATION - SEE 5/5302 TYPICAL UNLESS NOTED OTHERWISE.
-  INDICATES HOLDOWN - SEE 4/5302 FOR SCHEDULE.
- FOR TYPICAL PLACEMENT OF STEM WALL REINFORCEMENT, STEPS IN FOOTING AND FOUNDATION CONSTRUCTION JOINTS - SEE DETAILS 8/5301, 6/5301 AND 2/5302 RESPECTIVELY.
- FOR TYPICAL EXCAVATION LIMITATIONS IN THE PROXIMITY OF FOUNDATIONS - SEE 7/5301.
- FOR TYPICAL VERTICAL PIPE PENETRATIONS IN STEM WALLS - SEE 1/5302.

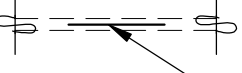
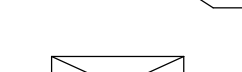
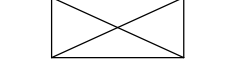
GRADE LEVEL FRAMING NOTES

- COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS. FINISH FLOOR = 0'-0" ABOVE FINISH FLOOR UNLESS NOTED OTHERWISE.
-  INDICATES WOOD STUD WALL. WOOD STUDS SHOULD ALIGN WITH TRUSS LAYOUT AND BE SPACED AT 16" ON CENTER, MAXIMUM UNLESS NOTED OTHERWISE. PROVIDE 15/32" WOOD SHEATHING AT ALL EXTERIOR WALLS NAILED WITH 10d AT 6" ON CENTER AT ALL PANEL EDGES (PROVIDE 2x BLOCKING AT UNSUPPORTED PANEL EDGES) AND 10d AT 12" ON CENTER AT INTERMEDIATE FRAMING TYPICAL UNLESS NOTED OTHERWISE - SEE NOTE #7 FOR ADDITIONAL SHEAR WALL NAILING.
-  INDICATES ANCHOR BOLTS THAT EXTEND TO WITHIN 3" OF BOTTOM OF FOOTING.
-  INDICATES HOLLOW STRUCTURAL SECTION COLUMNS ORIGINATING AT FINISH FLOOR - SEE 5/5302 TYPICAL UNLESS NOTED OTHERWISE.
-  INDICATES WOOD STUD BUILT-UP COLUMN - SEE 2/5401 FOR TYPICAL DETAIL.
- [X/X] INDICATES SPECIAL BUILT-UP WOOD STUD COLUMN REQUIREMENTS UNDER HEADER. FOR TYPICAL FRAMING REQUIREMENTS AT OPENING IN STRUCTURAL WALLS - SEE 1/5401 FOR TYPICAL DETAIL.
-  INDICATES SPECIAL WOOD STUD WALL TYPE - SEE 3/5401 AND FOR SCHEDULE. CALL OUT IS EFFECTIVE THE LENGTH OF THE HORIZONTAL PLANE.
-  INDICATES HOLDOWN - SEE 4/5302 FOR SCHEDULE.
-  INDICATES DEPRESSED OR SLOPED SLABS. FOR SLOPE AND EXACT LOCATION - SEE ARCHITECTURAL DRAWINGS, 1/5303.
- FOR TYPICAL CONCRETE SLAB-ON-GRADE DETAILS - SEE SHEETS 5301, 5302, 5303 AND 5304.
- NON-STRUCTURAL STUD WALLS ARE NOT SHOWN OR SHOWN SCREENED. FOR LOCATION - SEE ARCHITECTURAL DRAWINGS. FOR BRACING AT TOPS OF WALLS - SEE 3/5402.
- FOR HOUSEKEEPING PAD - SEE 3/5303. COORDINATE LOCATIONS WITH MECHANICAL ENGINEER.

WOOD FLOOR FRAMING NOTES

- COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
-  INDICATES WOOD STUD WALL. WOOD STUDS SHOULD ALIGN WITH TRUSS LAYOUT AND BE SPACED AT 16" ON CENTER MAXIMUM UNLESS NOTED OTHERWISE. PROVIDE 15/32" WOOD SHEATHING AT ALL EXTERIOR WALLS NAILED WITH 10d AT 6" ON CENTER AT ALL PANEL EDGES (PROVIDE 2x BLOCKING AT UNSUPPORTED PANEL EDGES) AND 10d AT 12" ON CENTER AT INTERMEDIATE FRAMING TYPICAL UNLESS NOTED OTHERWISE - SEE NOTE #11 FOR ADDITIONAL SHEAR WALL NAILING.
- NON-STRUCTURAL STUD WALLS ARE NOT SHOWN OR SHOWN SCREENED. FOR LOCATION - SEE ARCHITECTURAL DRAWINGS. FOR BRACING AT TOPS OF WALLS - SEE SHEET 5402.
-  INDICATES WALL EXTENDING TO FLOOR STRUCTURE.
-  INDICATES TYPICAL HEADER IN WALL BELOW - SEE 1/5401.
- "(C=)" INDICATES CAMBER FOR GLULAM BEAMS. C=0" UNLESS NOTED OTHERWISE.
-  INDICATES COLUMN ENDING AT FLOOR.
-  INDICATES TYPE OF CONTINUOUS COLUMN FROM LEVEL BELOW AND CONTINUING ON TO LEVEL ABOVE.
-  INDICATES WOOD STUD BUILT-UP COLUMN - SEE 2/5401 FOR TYPICAL DETAIL.
- [X/X] INDICATES SPECIAL BUILT-UP WOOD STUD COLUMN REQUIREMENTS UNDER HEADER. FOR TYPICAL FRAMING REQUIREMENTS AT OPENING IN STRUCTURAL WALLS - SEE 1/5401 FOR TYPICAL DETAIL.
-  INDICATES SPECIAL WOOD STUD WALL TYPE - SEE 3/5401 FOR SCHEDULE. - CALLOUT ARE EFFECTIVE FOR ALL WALL ALONG THE HORIZONTAL PLANE.
-  INDICATES HOLDOWN - SEE 4/5302 FOR SCHEDULE.
-  INDICATES PENETRATION IN FLOOR STRUCTURE.
- PROVIDE 23/32" TONGUE AND GROOVE PLYWOOD SHEATHING OVER ENTIRE FLOOR STRUCTURE. NAIL WOOD FLOOR SHEATHING WITH 10d AT 6" ON CENTER AT ALL SUPPORTED PANEL EDGES AND 10d AT 10" ON CENTER AT INTERMEDIATE FRAMING PER 2/5402. TYPICAL UNLESS NOTED OTHERWISE.
- FOR SUPPORT OF MISCELLANEOUS MECHANICAL EQUIPMENT AND PIPES FROM FLOOR STRUCTURE - SEE 1/5501 AND 2/5501.

WOOD ROOF FRAMING NOTES

- COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
-  INDICATES WALL EXTENDING TO ROOF STRUCTURE.
-  INDICATES TYPICAL HEADER IN WALL BELOW - SEE 1/5401.
-  INDICATES PENETRATION IN ROOF STRUCTURE.
- "(C=)" INDICATES CAMBER FOR GLULAM BEAMS. C=0" UNLESS NOTED OTHERWISE.
- PROVIDE 19/32" PLYWOOD SHEATHING OVER ENTIRE ROOF STRUCTURE UNLESS NOTED OTHERWISE. NAIL WOOD ROOF SHEATHING WITH 10d AT 6" ON CENTER AT ALL SUPPORTED PANEL EDGES AND 10d AT 10" ON CENTER AT INTERMEDIATE FRAMING. TYPICAL UNLESS NOTED OTHERWISE - SEE 2/5402.
- FOR SUPPORT OF MISCELLANEOUS MECHANICAL EQUIPMENT AND PIPES FROM ROOF STRUCTURE - SEE 1/5601 AND 2/5601.



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PROJECT # 22048
DATE 12/27/2023

REV #	DATE	DESCRIPTION

TIMBERLAND REGIONAL LIBRARY DIST.

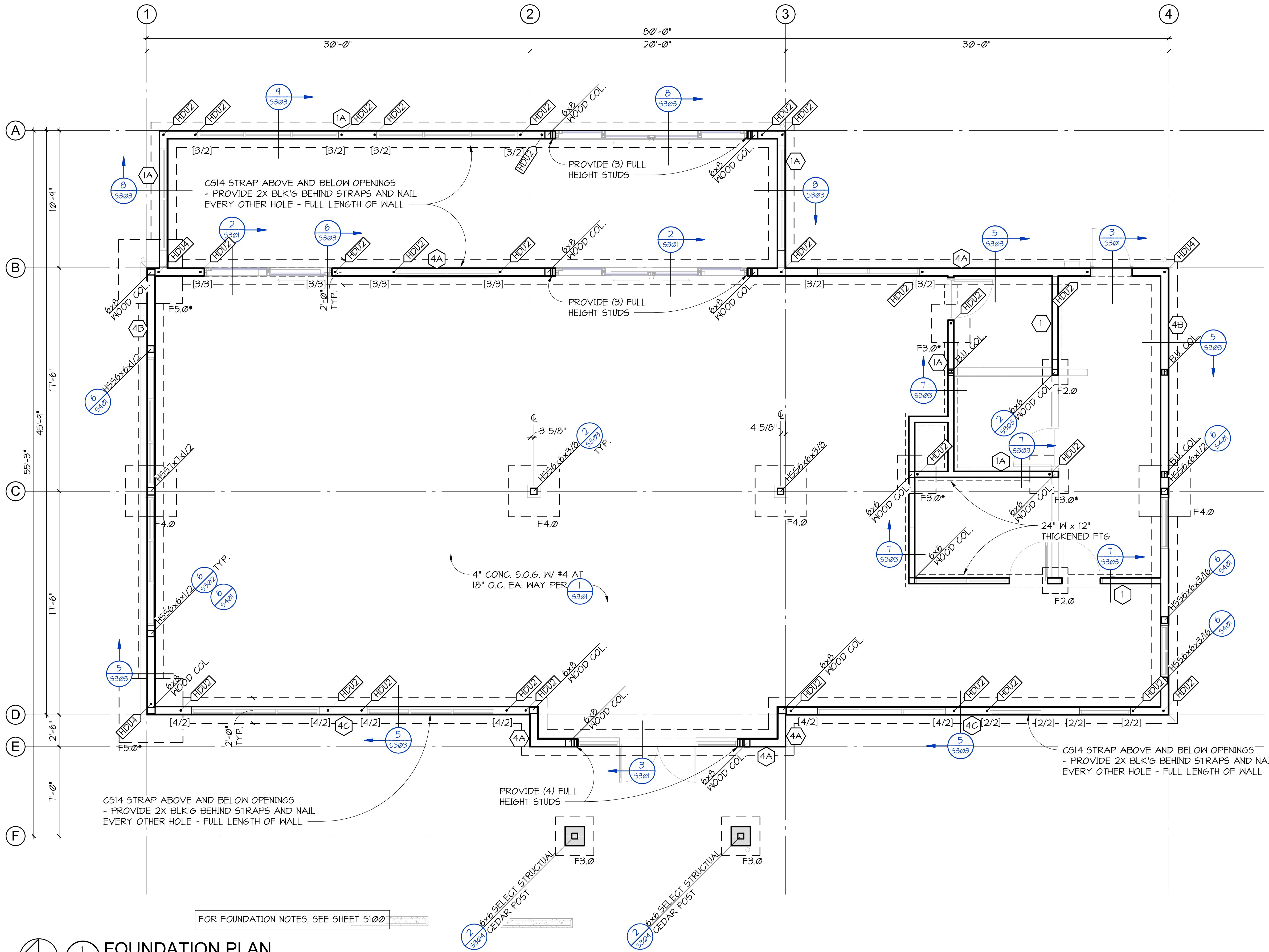
MOUNTAIN VIEW LIBRARY

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RANDLE, WA 98377

FOUNDATION
PLAN

PROJECT # 22048
DATE 12/27/2023

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FOR FOUNDATION NOTES, SEE SHEET S100

FOUNDATION PLAN
1/4" = 1'-0"

C:_Revit Models\23372 MOUNTAIN VIEW LIBRARY R24 (CENTRAL)_SOLELS 1965.rvt

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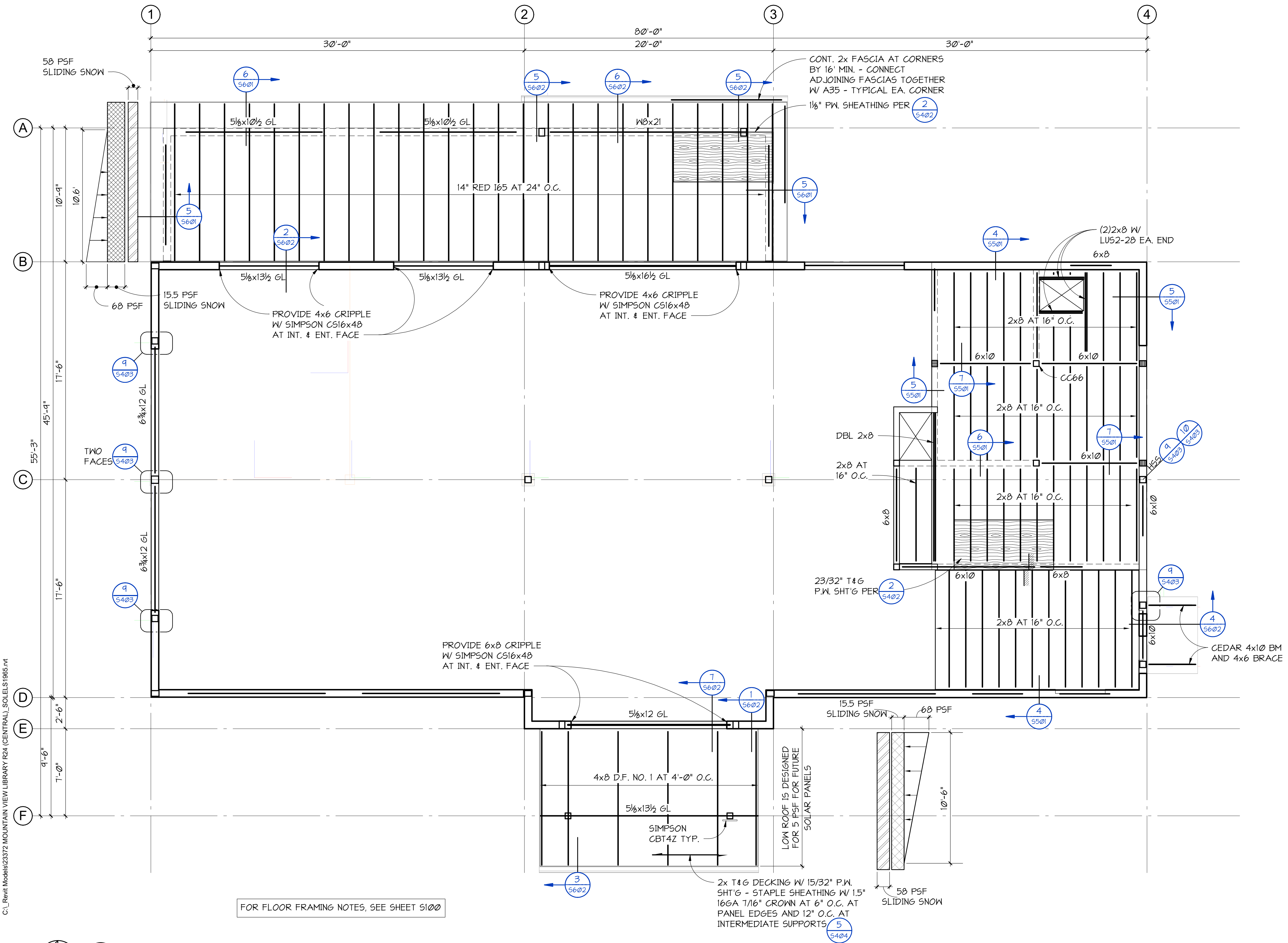
MOUNTAIN VIEW LIBRARY

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MEZZANINE/LOW
ROOF FRAMING
PLAN

PROJECT # 22048
DATE 12/27/2023

REV #	DATE	DESCRIPTION



FOR FLOOR FRAMING NOTES, SEE SHEET S100

C:_Revit Models\23372 MOUNTAIN VIEW LIBRARY R24 (CENTRAL)_SOLELS1965.rvt

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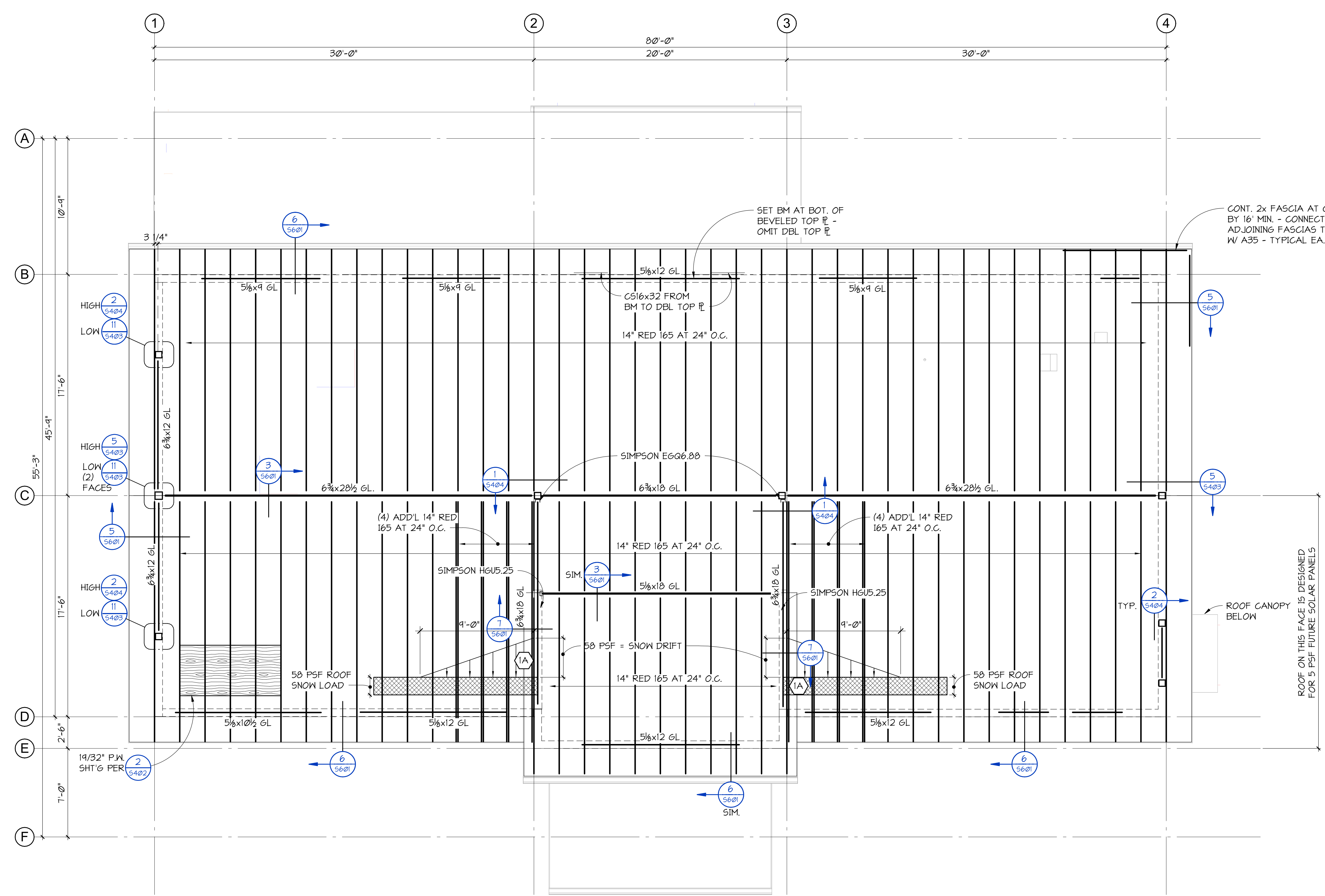
MEZZANINE/LOW ROOF FRAMING PLAN
1/4" = 1'-0"

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ROOF FRAMING PLAN

PROJECT # 22048
 DATE 12/27/2023

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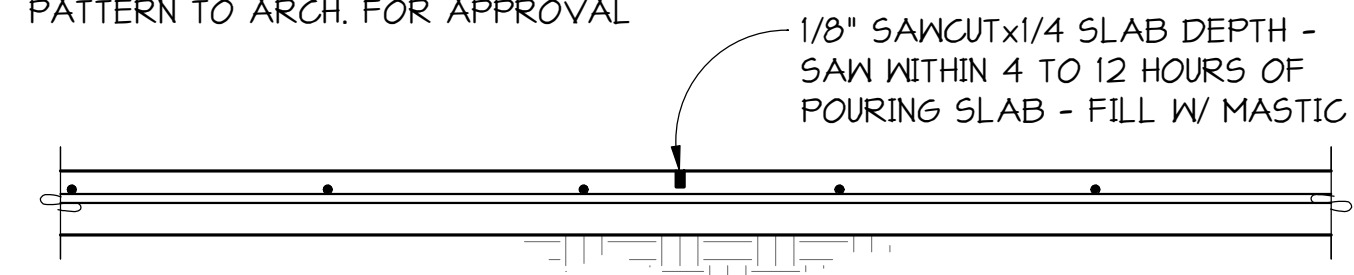


FOR ROOF FRAMING NOTES, SEE SHEET S100

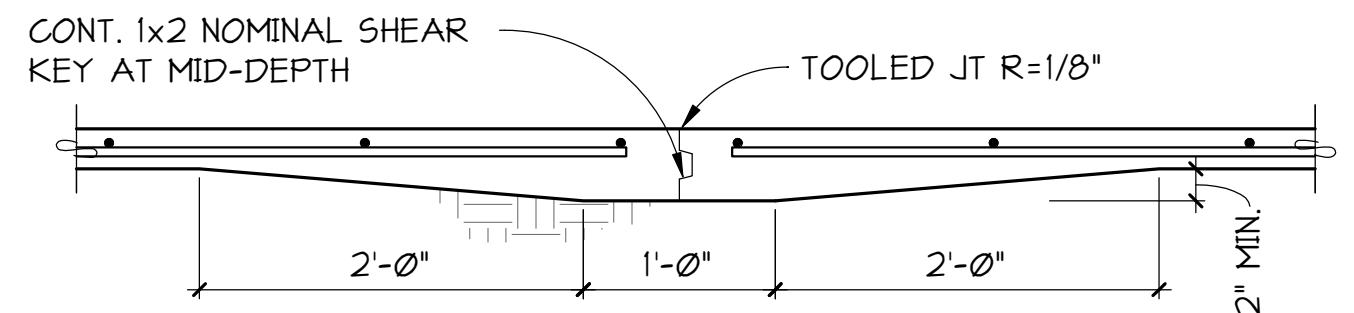
1 ROOF FRAMING PLAN
 1/4" = 1'-0"

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 C:_Revit Models\23372 MOUNTAIN VIEW LIBRARY R24 (CENTRAL)_SOLE'S 1965.rvt

NOTE: LOCATE JT'S AT NON-BEARING WALLS WHERE POSSIBLE - SUBMIT PATTERN TO ARCH. FOR APPROVAL



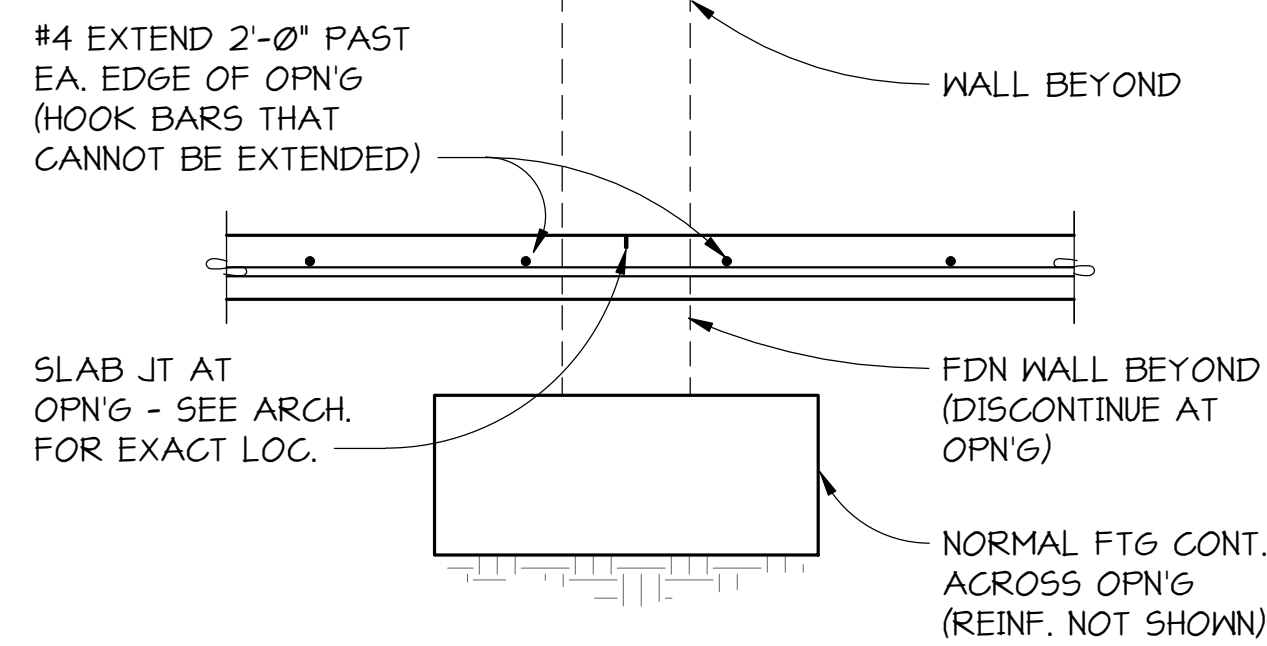
TYPICAL CONTROL JOINT FOR SLAB ON GRADE



TYPICAL CONSTRUCTION JOINT FOR SLAB ON GRADE

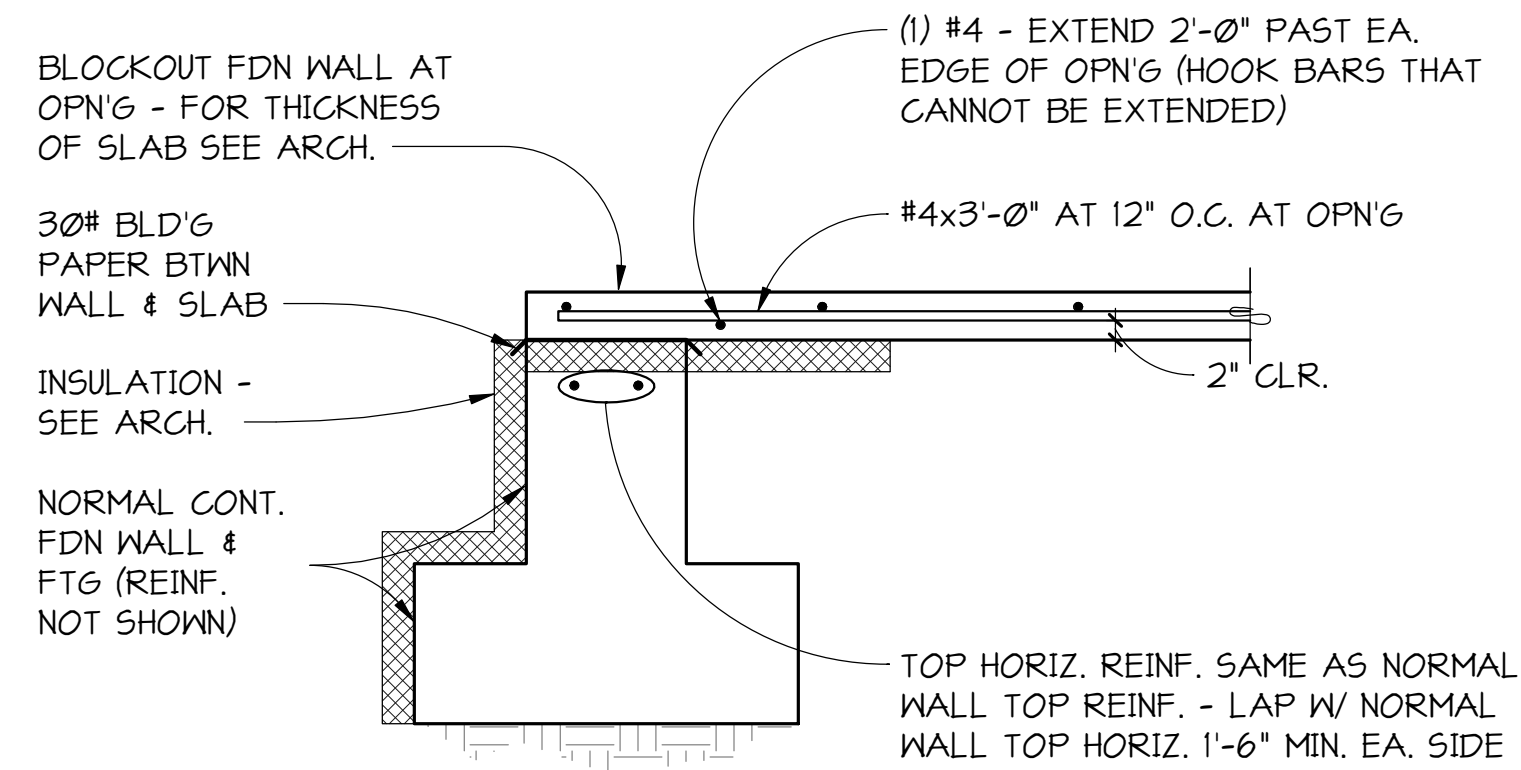
1 SECTION
5301 1" = 1'-0"

NOTE: ADD'L REINF. NOT REQ'D FOR T.O.F. \geq 18" A.F.F.



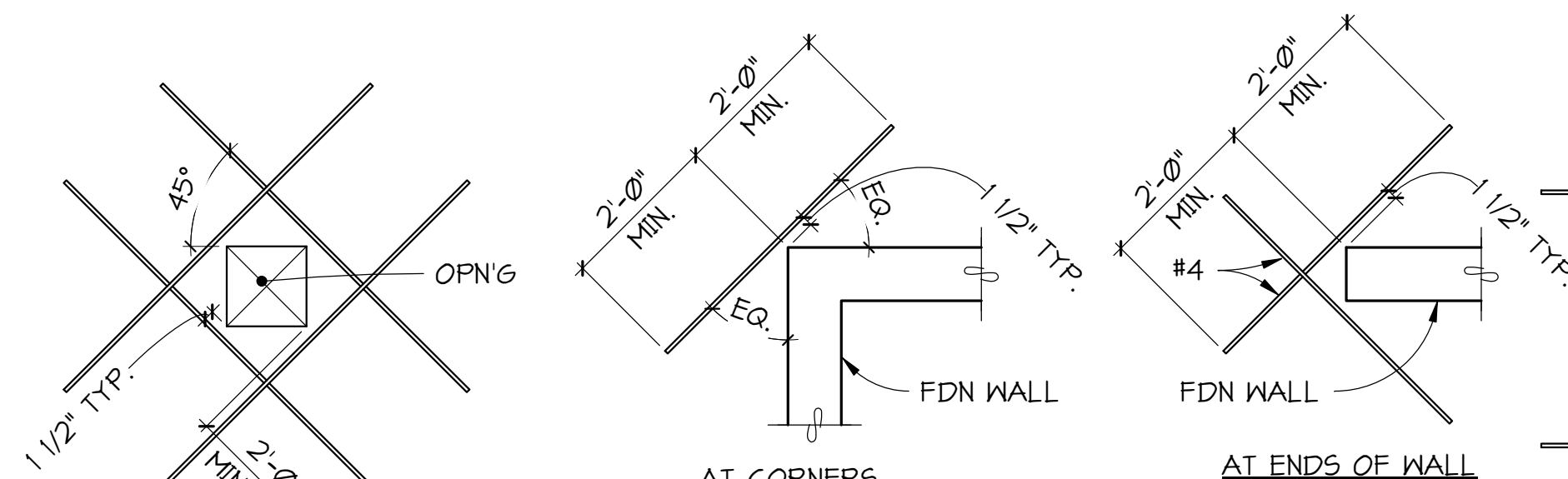
TYPICAL SLAB AT INTERIOR BEARING WALL OPENING

2 SECTION
5301 1" = 1'-0"



TYPICAL REINFORCED SLAB AT EXTERIOR OPENING

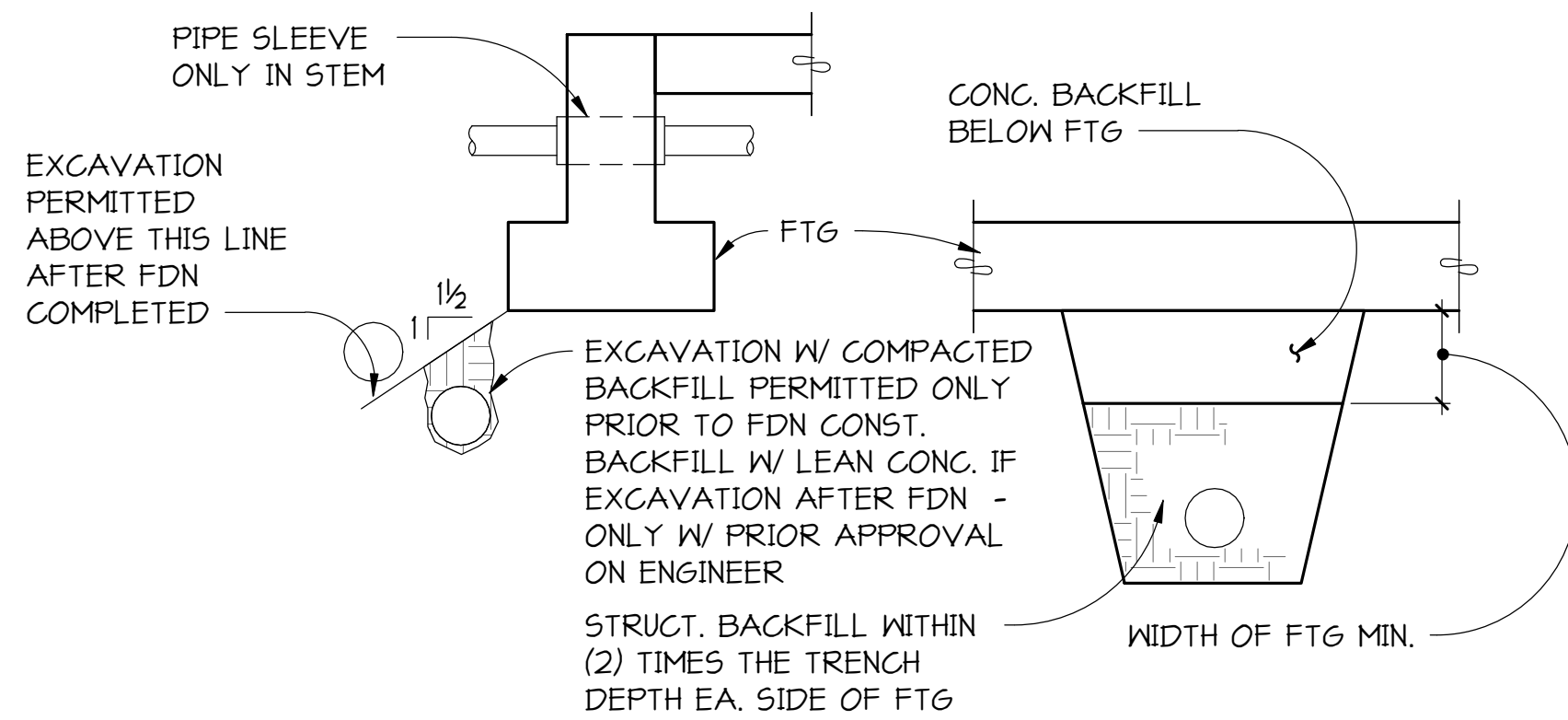
3 SECTION
5301 1" = 1'-0"



NOTES:
1. AROUND OPENINGS 6" ϕ OR LESS, NO ADD'L REINF. REQ'D
2. REINF. SHOWN IS #4 @ SLAB MID-DEPTH HOOK BARS THAT CANNOT BE EXTENDED

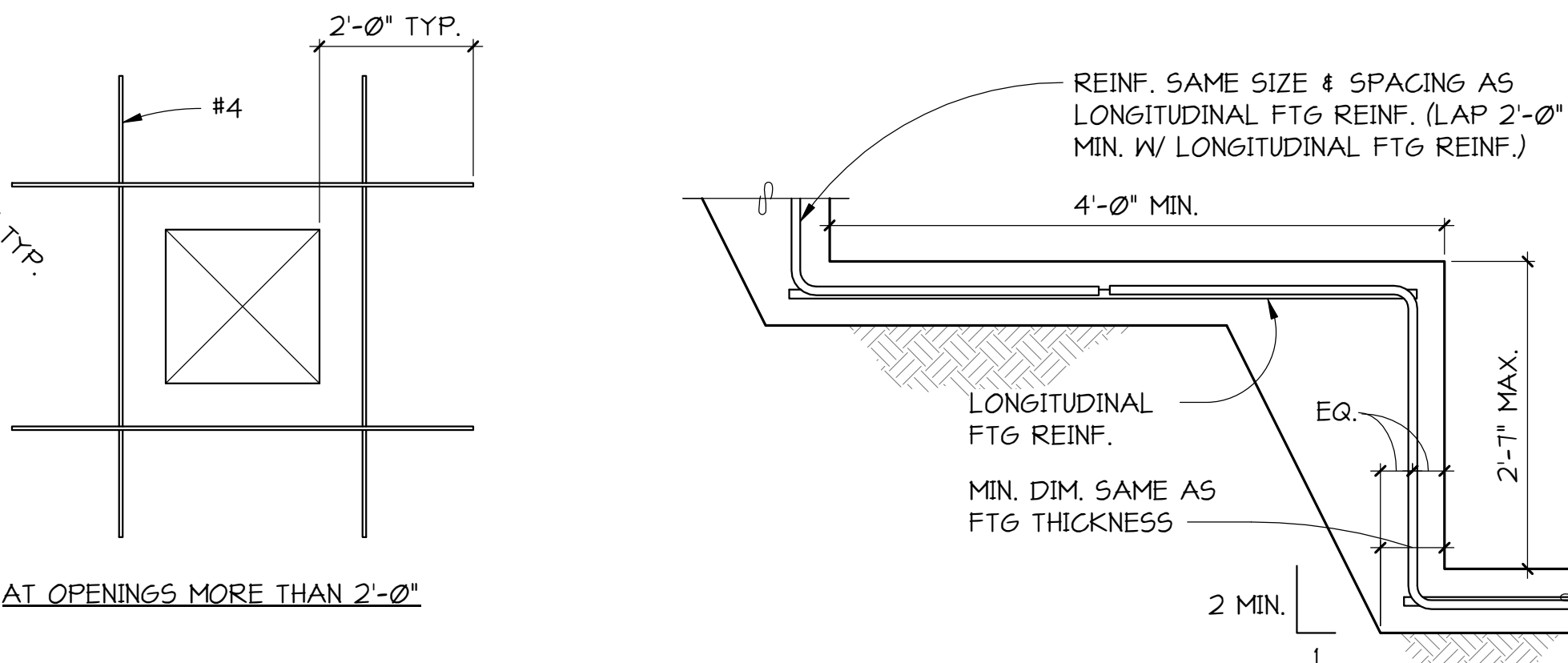
TYPICAL SLAB ON GRADE DISCONTINUITY REINFORCEMENT AT OPENINGS LESS THAN 2'-0"

5 PLAN DETAILS
5301 1/2" = 1'-0"



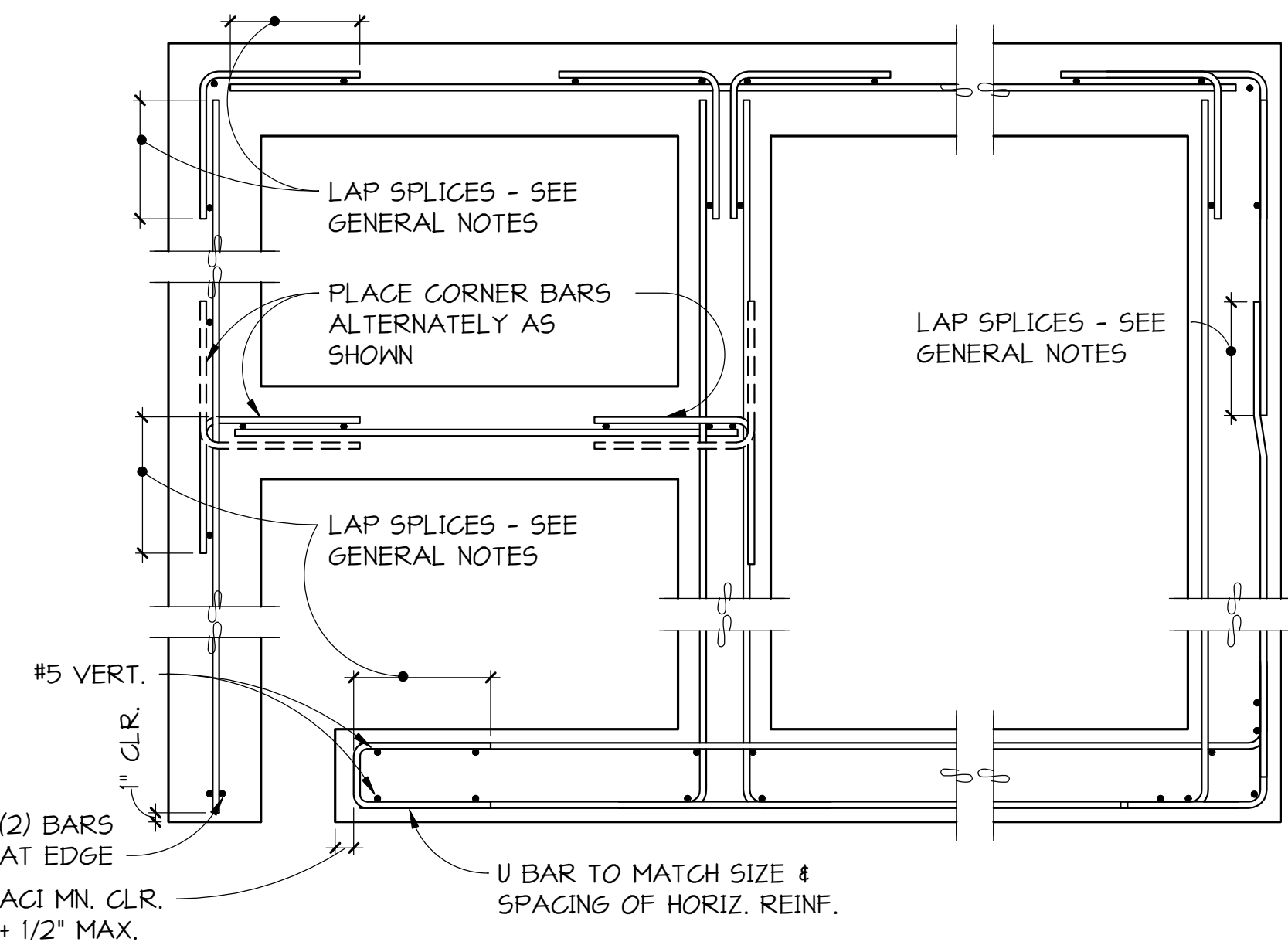
NOTES:
1. FOUNDATIONS SHALL NOT BE LOADED PRIOR TO COMPLETING STRUCTURAL BACKFILL UNDER & NEAR FOOTINGS.
2. CONCRETE BACKFILL SHALL BE USED UNDER FOOTINGS WHERE 95% COMPACTION CANNOT BE ACCOMPLISHED.
3. ALL STRUCTURAL BACKFILL NOTED SHALL BE COMPACTED TO 95% OF MAX. DENSITY PER ASTM.
4. A PIPE SLEEVE SHALL BE PROVIDED FOR SHALLOW PIPES CAST IN CONCRETE.
5. PIPES SHALL NOT BE PLACED IN THE FOOTING WITHOUT SPECIFIC APPROVAL FROM THE ENGINEER.
6. FOR VARIATIONS CONTACT ENGINEER.

7 SECTION
5301 1" = 1'-0"



TYPICAL STEPPED FOOTING

6 DETAIL
5301 1" = 1'-0"



TYPICAL REINFORCING PLACEMENT FOR CAST IN PLACE CONCRETE WALLS AND STEM WALLS

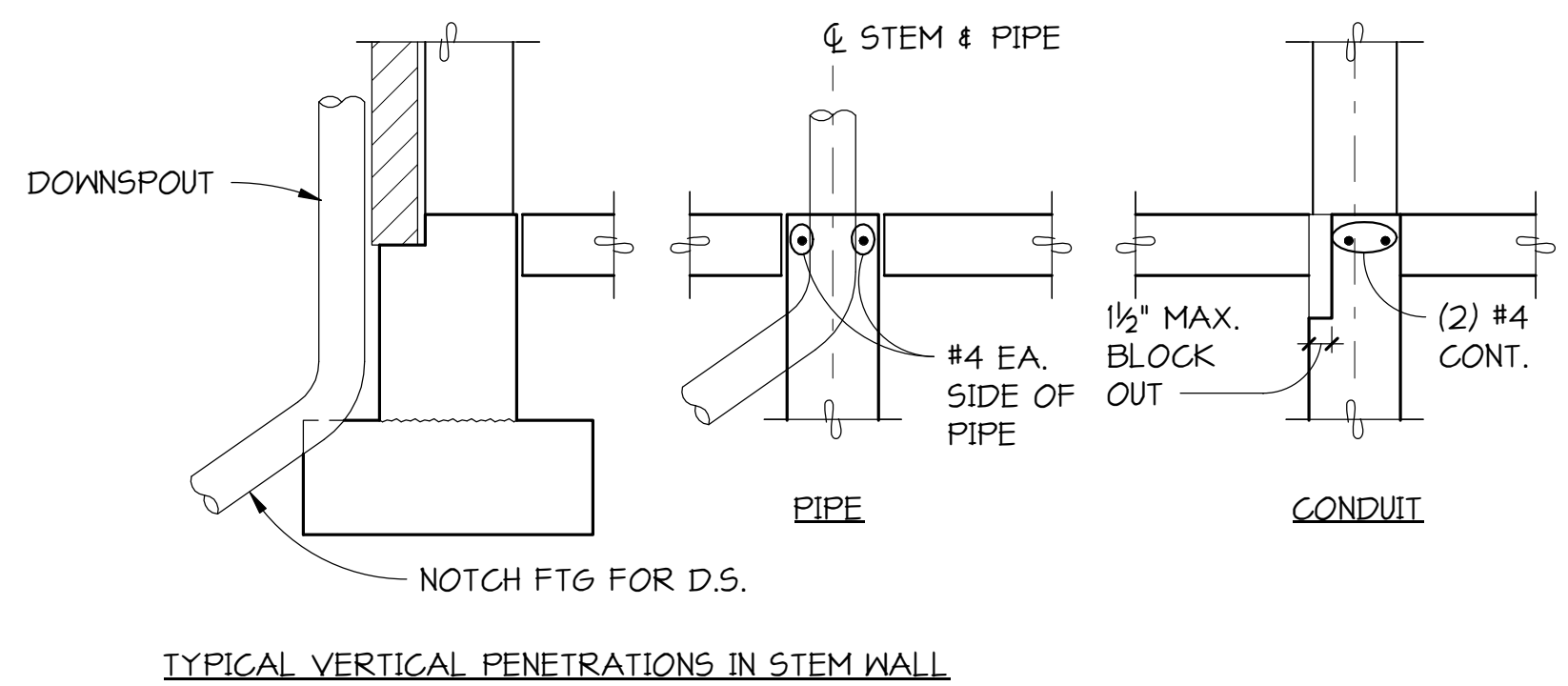
8 DETAIL
5301 3/4" = 1'-0"

NOTES:
1. VERT. REINF. SHOWN IS ADD'L IF NORMAL STEM WALL REINF. IS NOT IN PROPER LOCATION.
2. CORNER BARS ARE SAME SIZE & SPACING AS HORIZ. REINF.
3. 90 STD HOOK MAY BE SUBSTITUTED FOR CORNER BARS. SEE NOTE #5.
4. REINF. AT ALL CORNERS, ENDS, & INTERSECTIONS OF WALLS SHALL BE PLACED IN ACCORDANCE W/ APPROPRIATE DETAIL SHOWN.
5. USE 90 STD HOOK FOR EMBEDMENT LESS THAN 24" PAST FACE OF WALL.

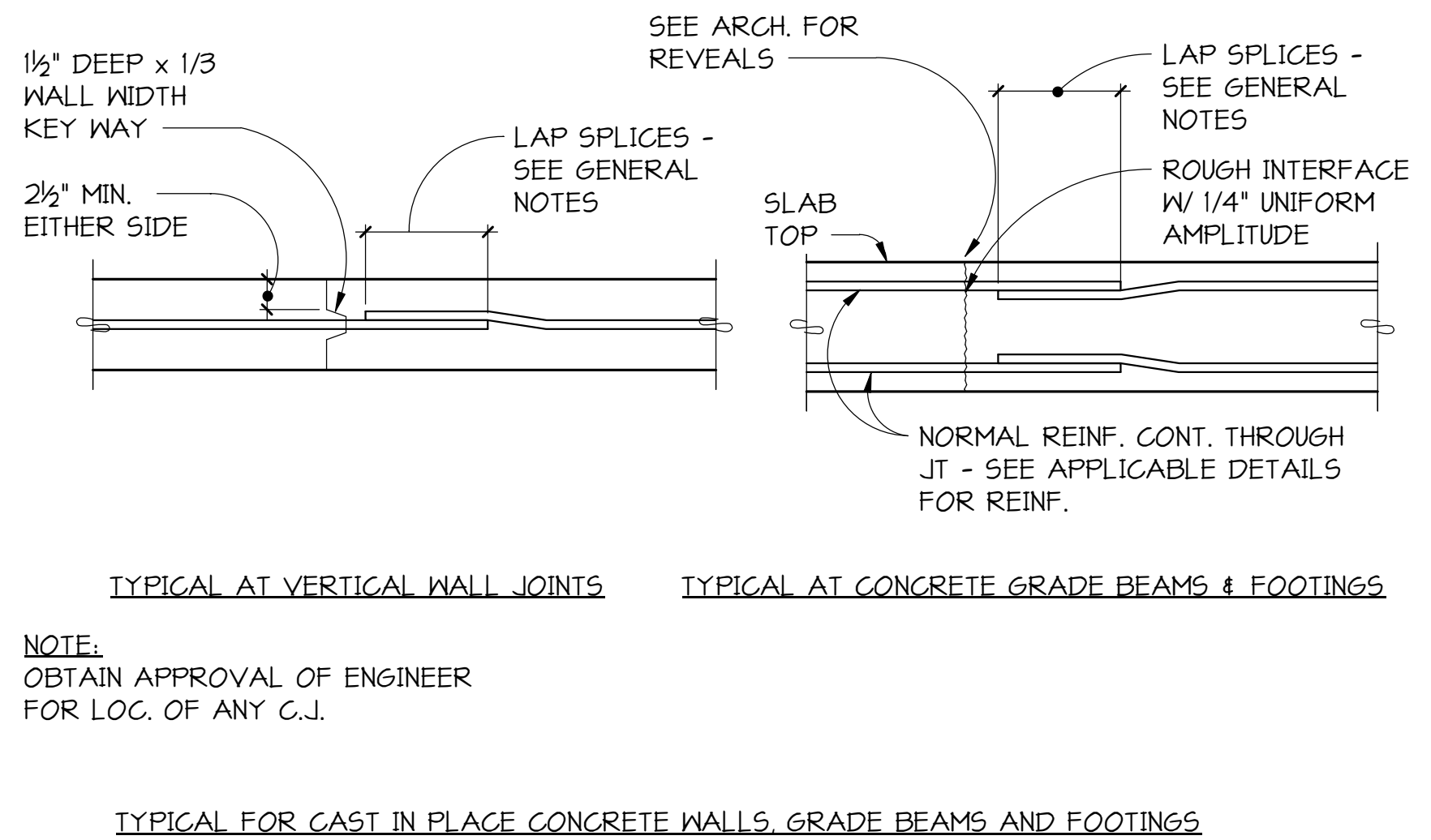
FOUNDATION
DETAILS

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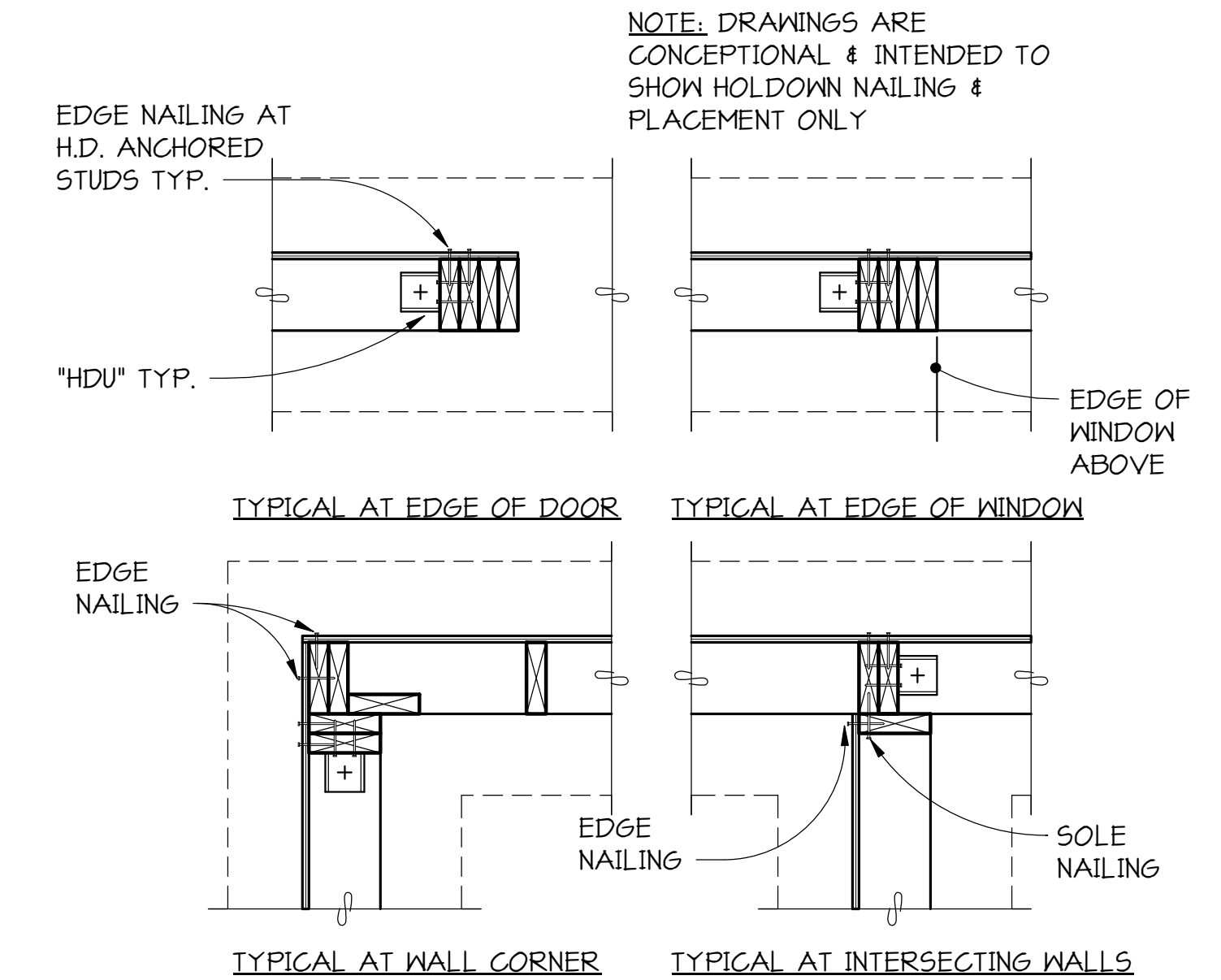
REV #	DATE	DESCRIPTION



1 DETAIL
5302 1" = 1'-0"



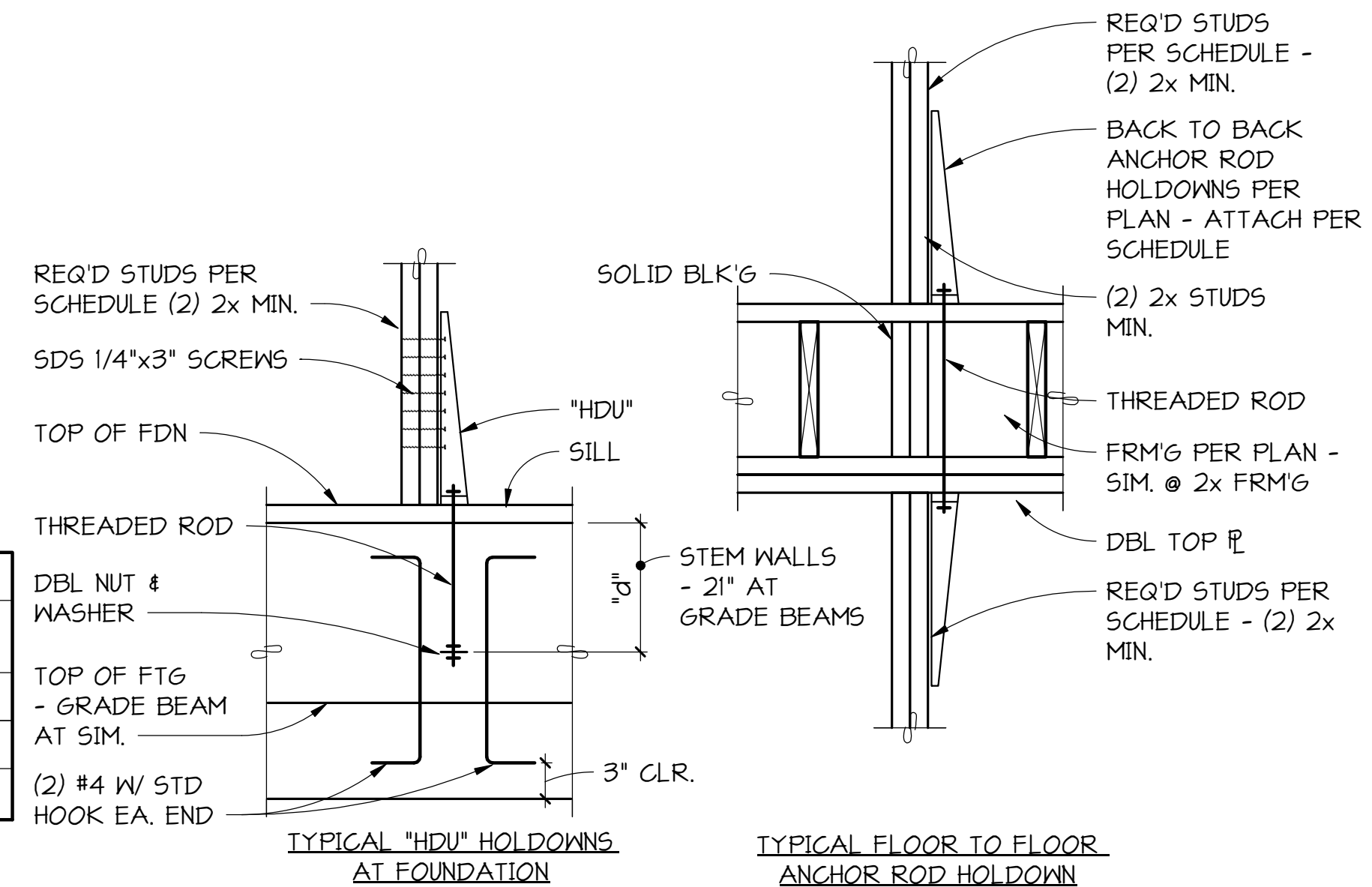
2 CONSTRUCTION JOINTS
5302 1" = 1'-0"



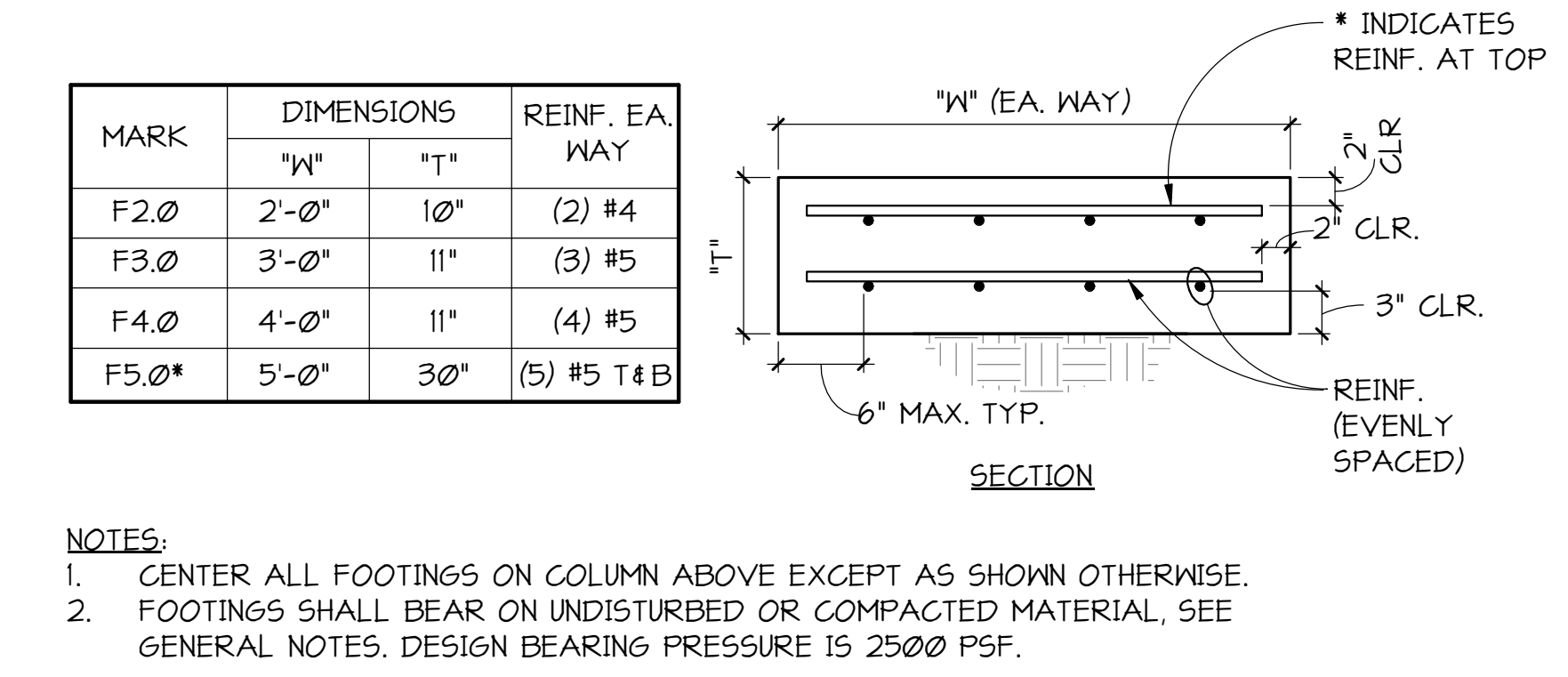
3 PLAN DETAIL
5302 1" = 1'-0"

- NOTES:**
- SEE FDN PLANS FOR HOLDOWN LOCATIONS.
 - ALL HOLDOWNS NOT OCCURRING AT A WALL CORNER SHALL BE LOCATED AT THE EDGE OF A WINDOW OR A DOOR. FOR ADD'L NAILING & PLACEMENT DETAILS SEE 3/5302.
 - STEP FOOTINGS AS REQ'D TO MEET EMBEDMENT REQUIREMENTS PER 6/5301.

TYPICAL ANCHOR ROD HOLDOWNS					
CALLOUT	SIZE	SDS 1/4"x2 1/2"	THREADED ROD Ø	"d"(4)	REQ'D STUDS
2	HDU2	(6)	5/8"Ø	1'-3"	(2) 2x
4	HDU4	(10)	5/8"Ø	1'-3"	(2) 2x
5	HDU5	(14)	5/8"Ø	1'-3"	(2) 2x

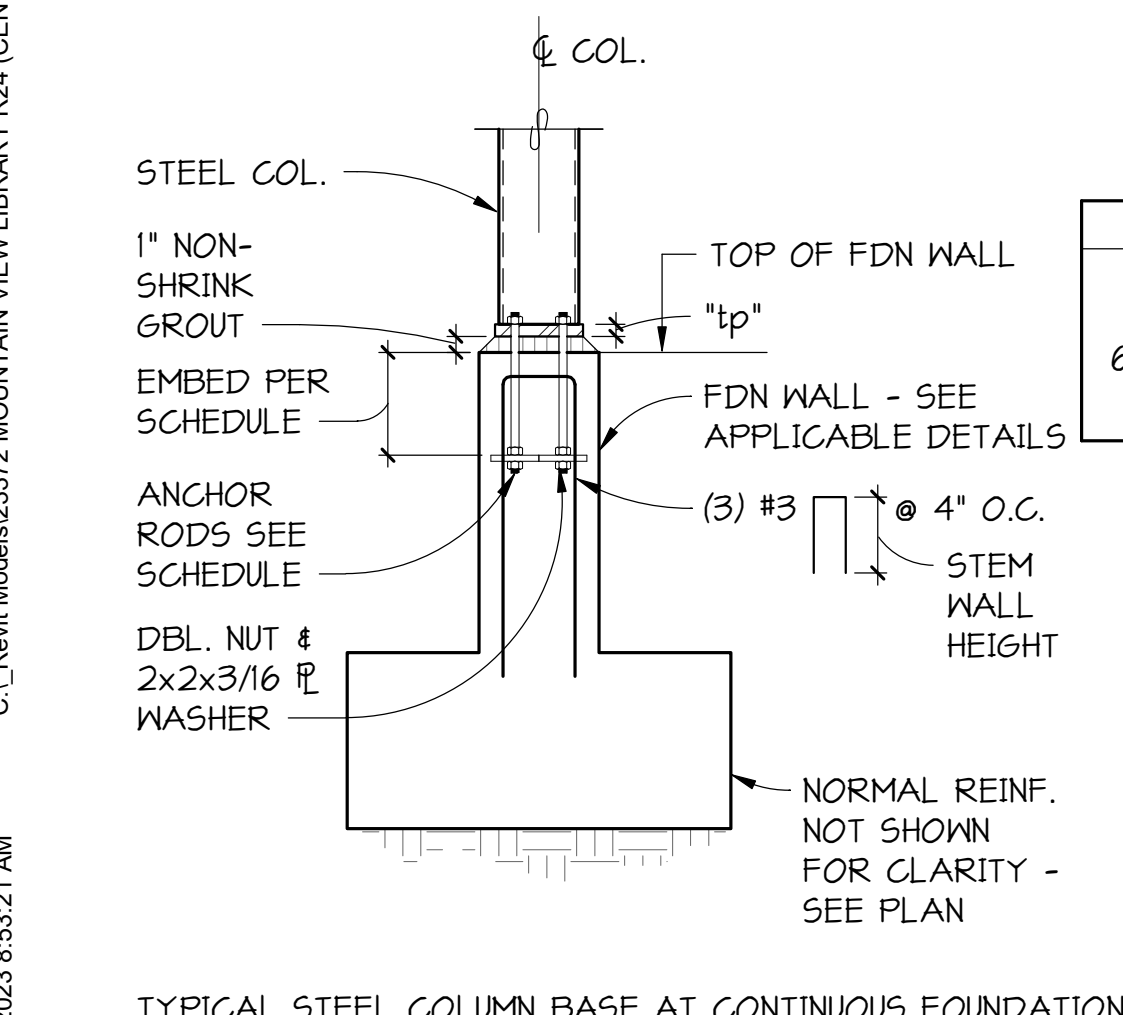


4 SECTION
5302 1" = 1'-0"

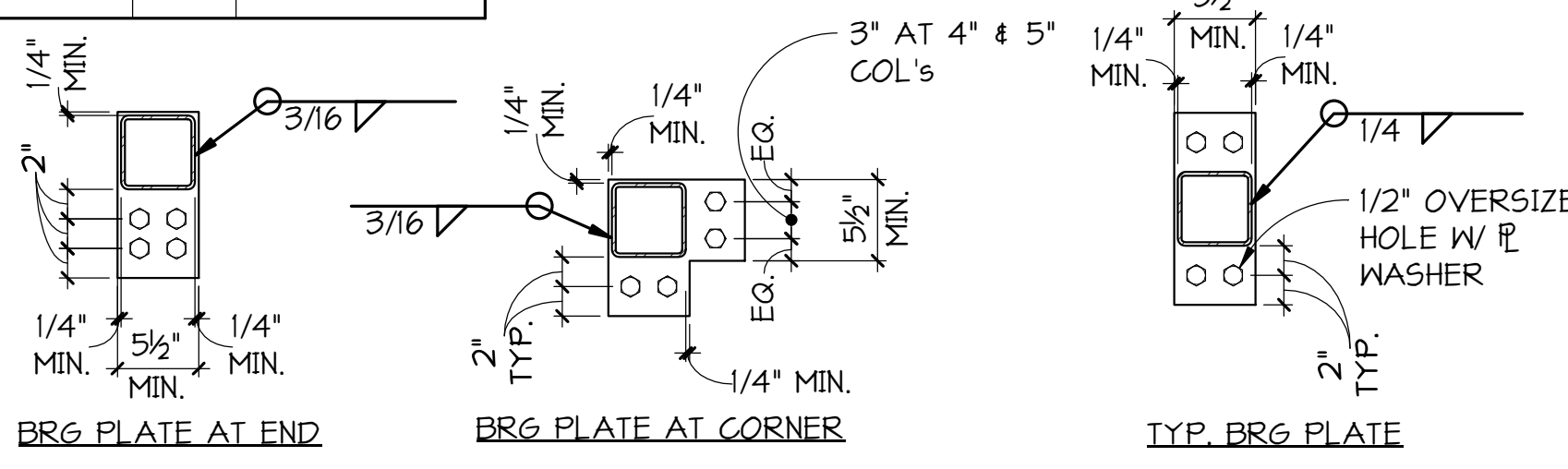


- NOTES:**
- CENTER ALL FOOTINGS ON COLUMN ABOVE EXCEPT AS SHOWN OTHERWISE.
 - FOOTINGS SHALL BEAR ON UNDISTURBED OR COMPACTED MATERIAL, SEE GENERAL NOTES. DESIGN BEARING PRESSURE IS 2500 PSF.

5 SECTION
5302 1" = 1'-0"



COL.	"tp"	A.B.
4", 5", 6", & 7"	3/4"	(4) 3/4" ANCHOR RODS - EMBED 7" MIN. U.N.O.



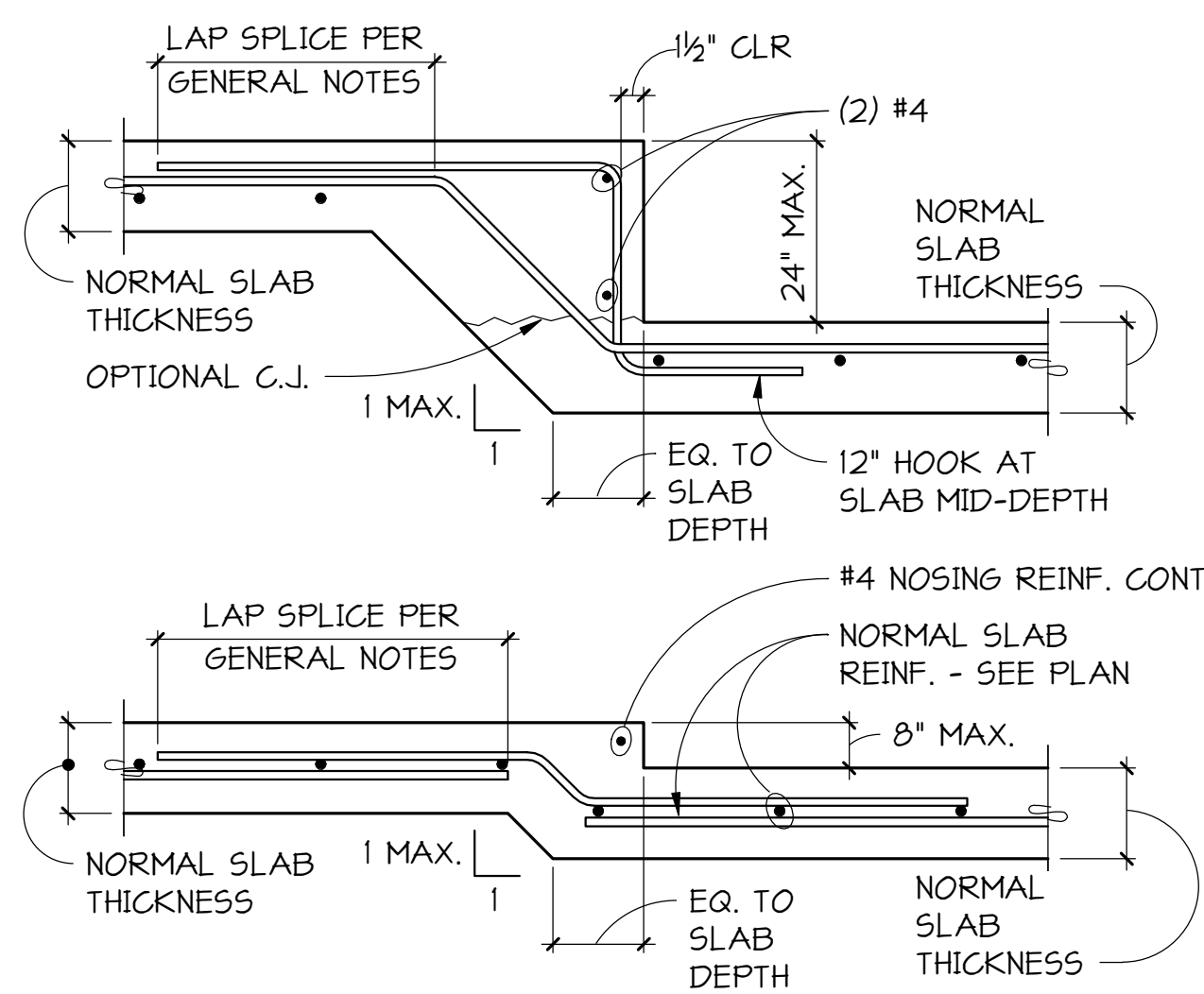
6 SECTION
5302 1" = 1'-0"

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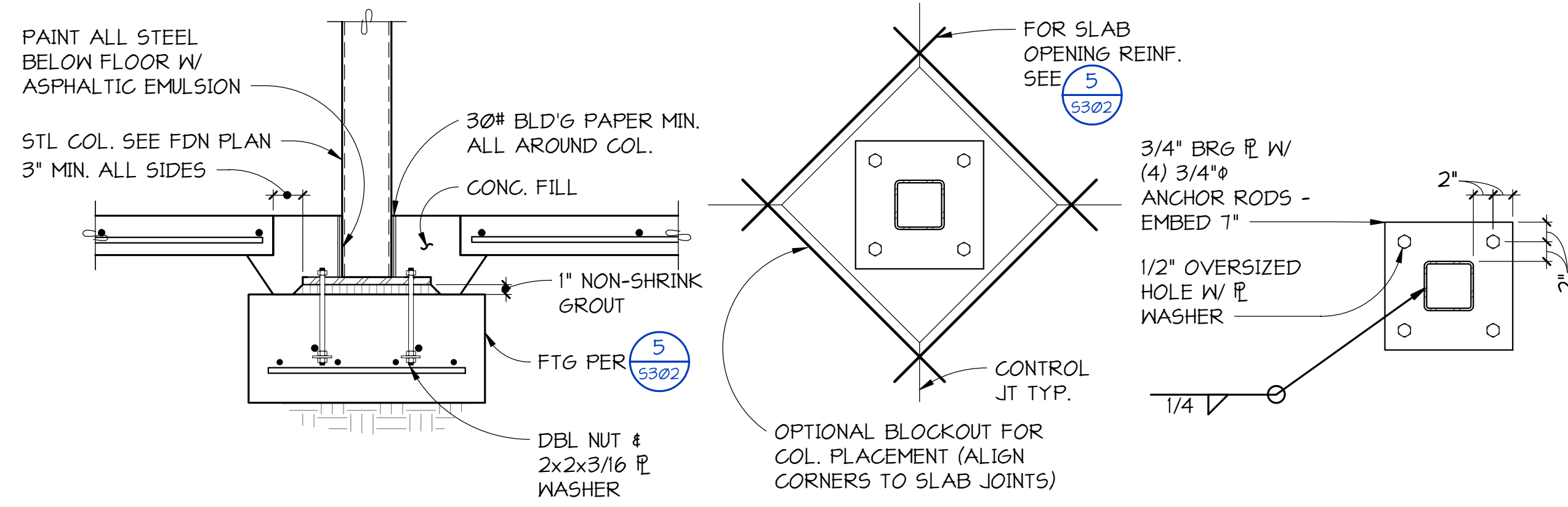
FOUNDATION DETAILS

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REV #	DATE	DESCRIPTION



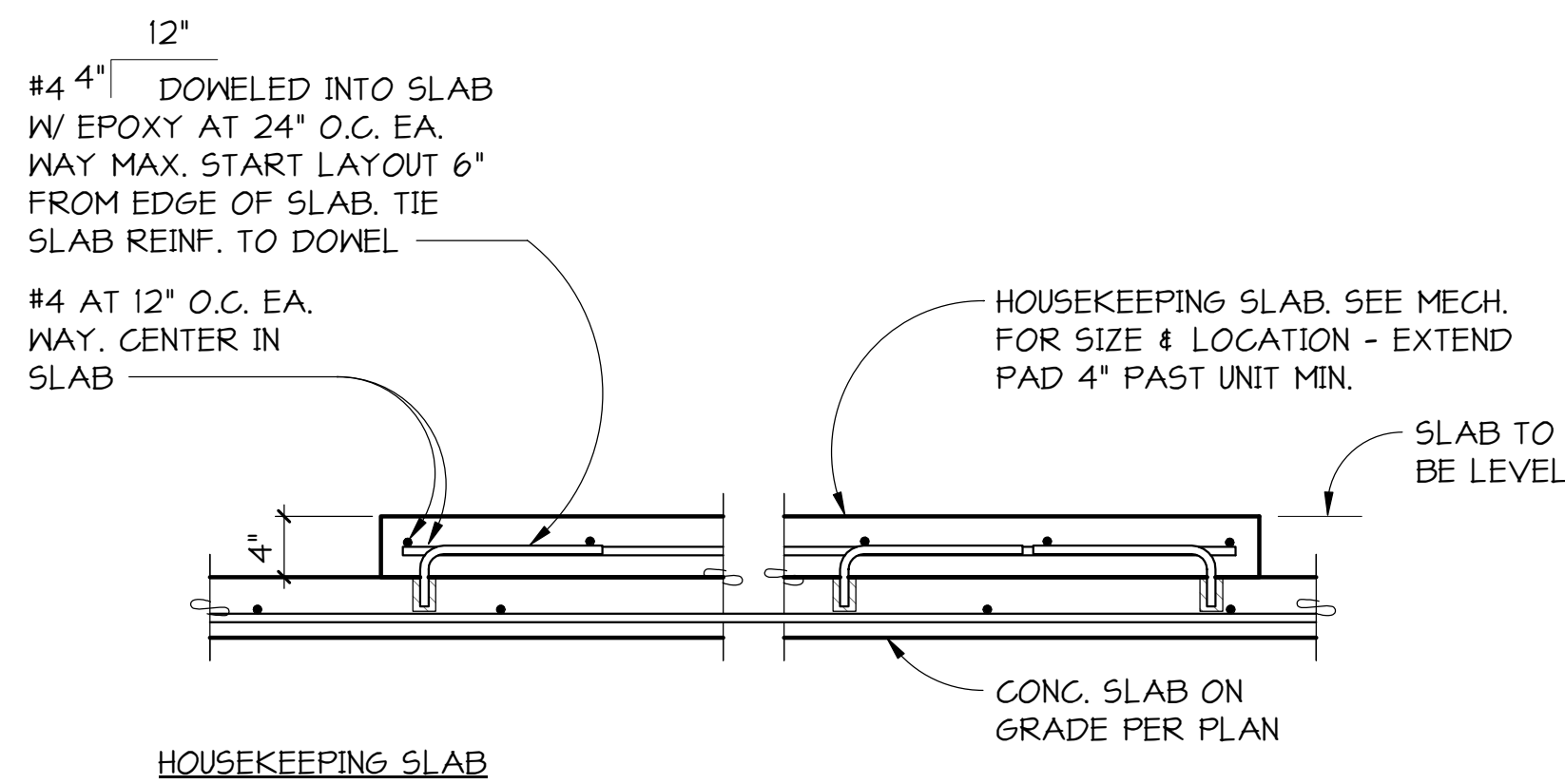
TYPICAL SLAB STEPS OR DEPRESSIONS



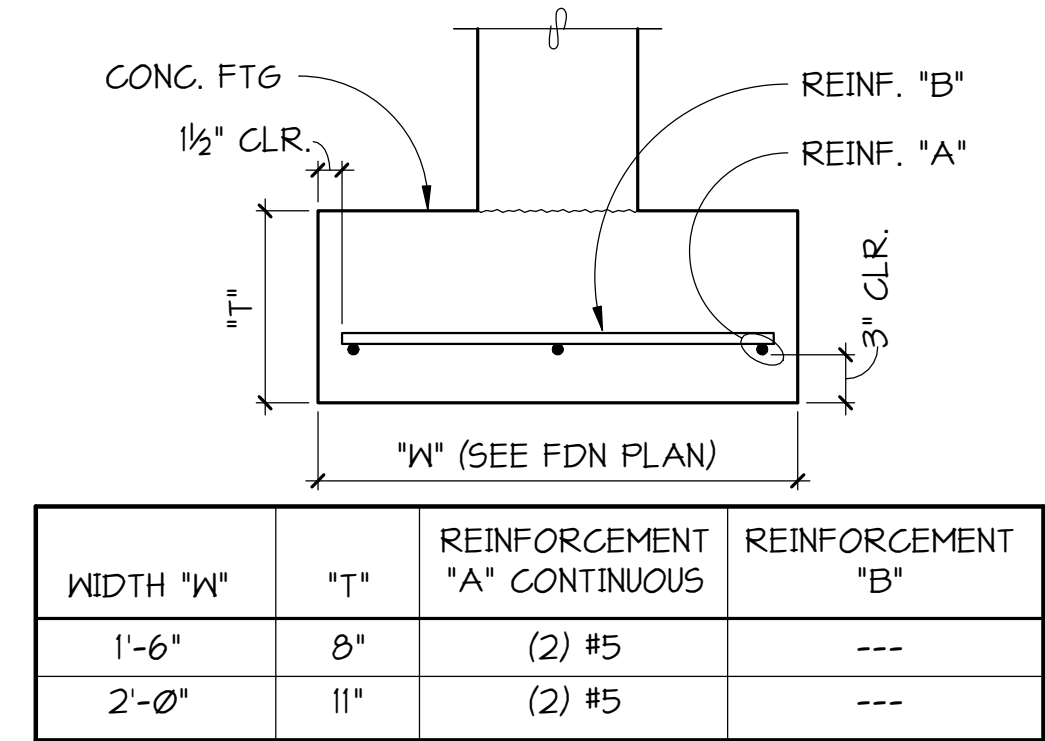
TYPICAL STEEL COLUMN AT SPREAD FOOTING

1 SECTION
5303 1" = 1'-0"

2 SECTION
5303 1" = 1'-0"



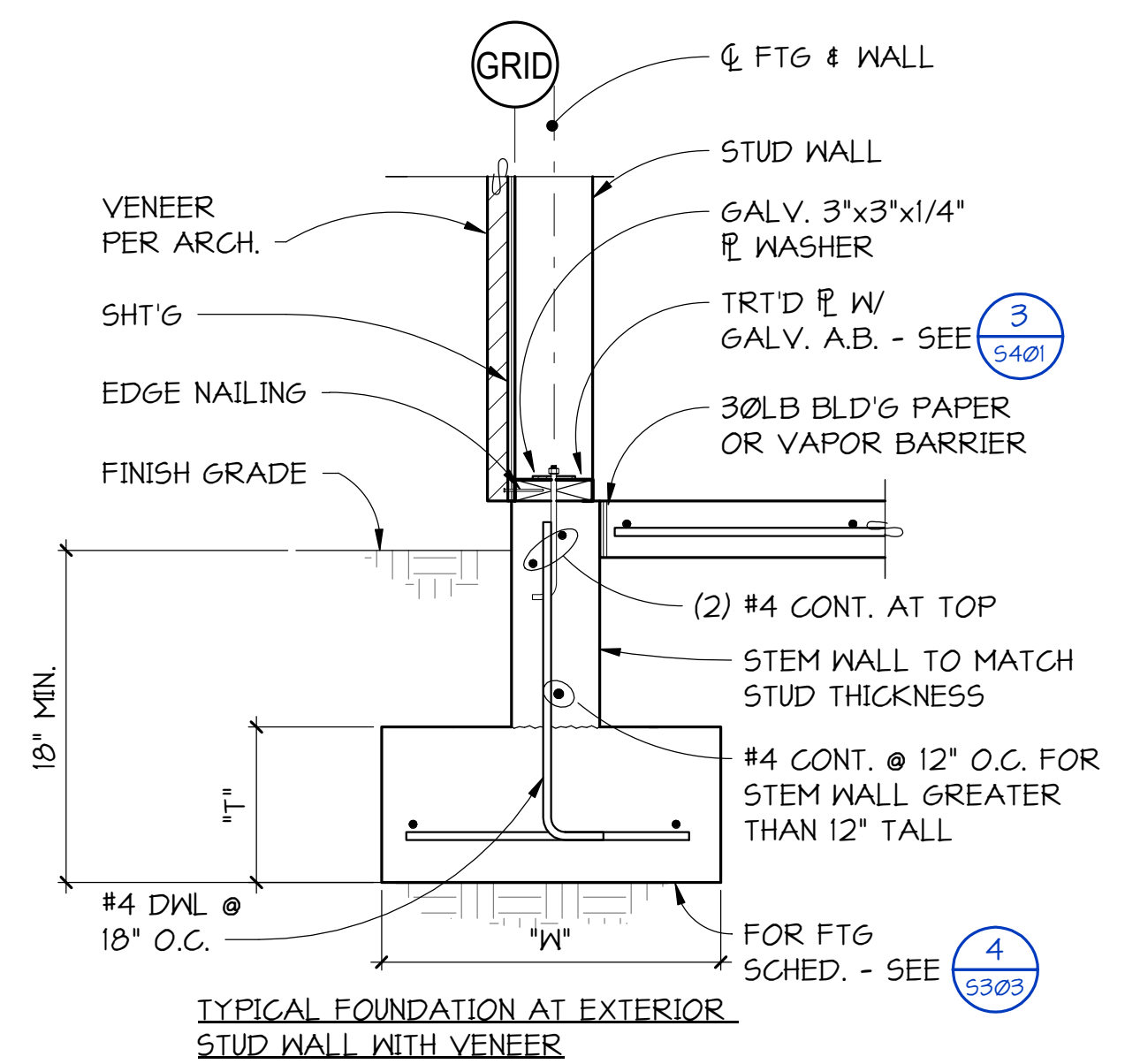
HOUSEKEEPING SLAB



WIDTH "W"	"T"	REINFORCEMENT "A" CONTINUOUS	REINFORCEMENT "B"
1'-6"	8"	(2) #5	---
2'-0"	11"	(2) #5	---

TYPICAL CONTINUOUS FOOTING DETAIL

- NOTES:
- FOOTINGS SHALL BEAR ON UNDISTURBED OR COMPACTED MATERIAL - SEE GENERAL NOTES.
 - EXTEND FOOTINGS 6" MINIMUM PAST ENDS OF WALL UNLESS OTHERWISE NOTED. WHERE FOOTINGS CHANGE WIDTHS LAP REINFORCING "A". "Ls" PER GENERAL NOTES.
 -

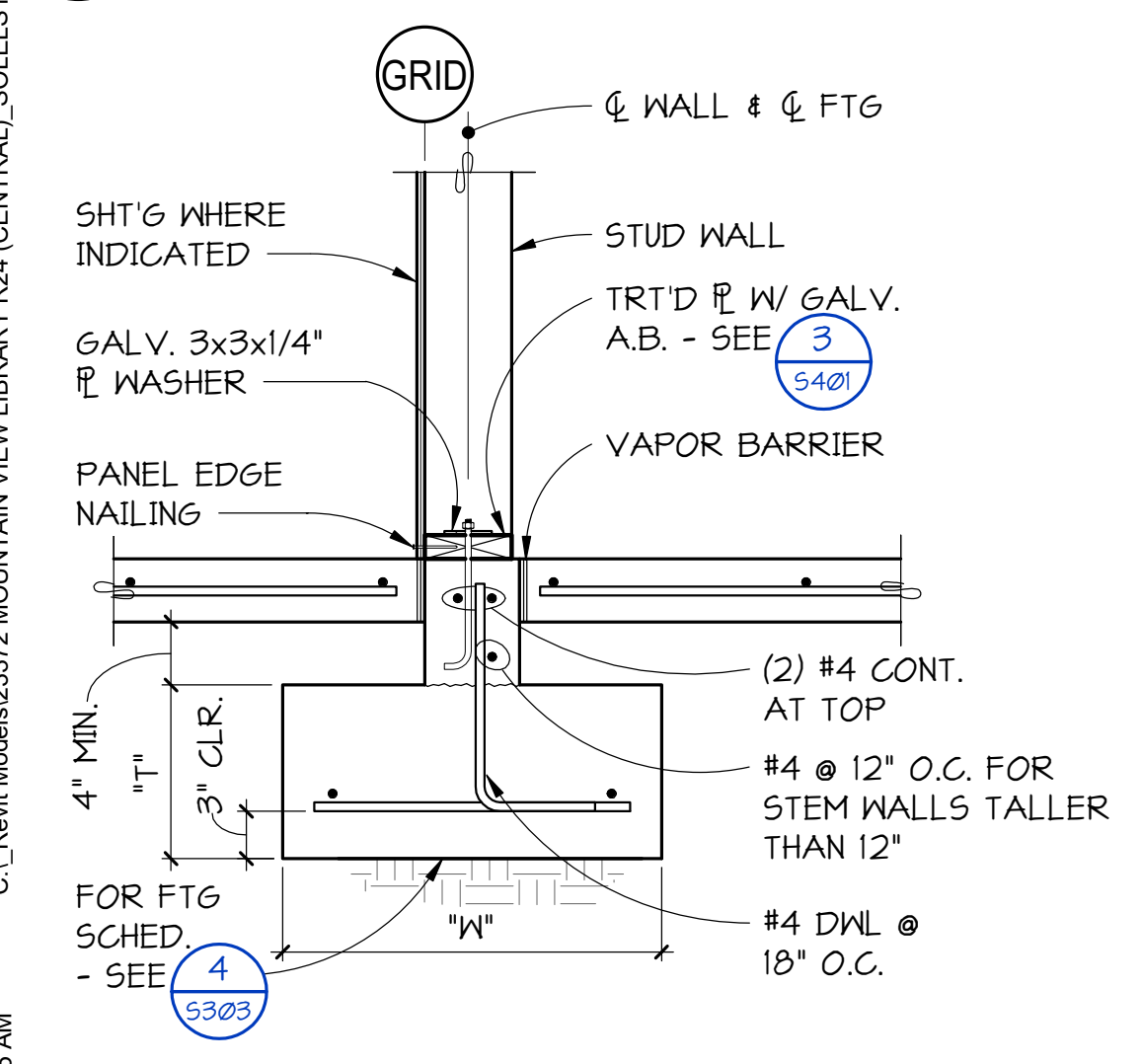


TYPICAL FOUNDATION AT EXTERIOR STUD WALL WITH VENEER

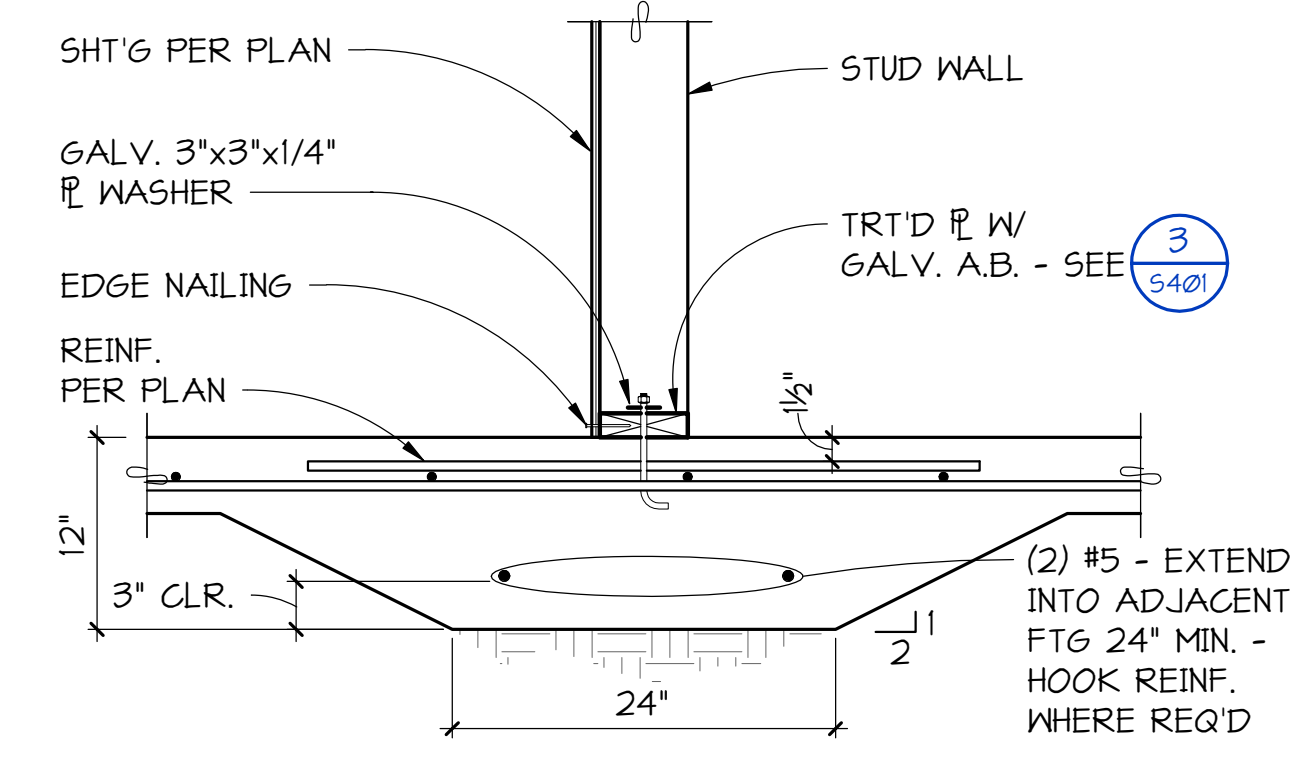
3 SECTION
5303 1" = 1'-0"

4 SECTION
5303 1" = 1'-0"

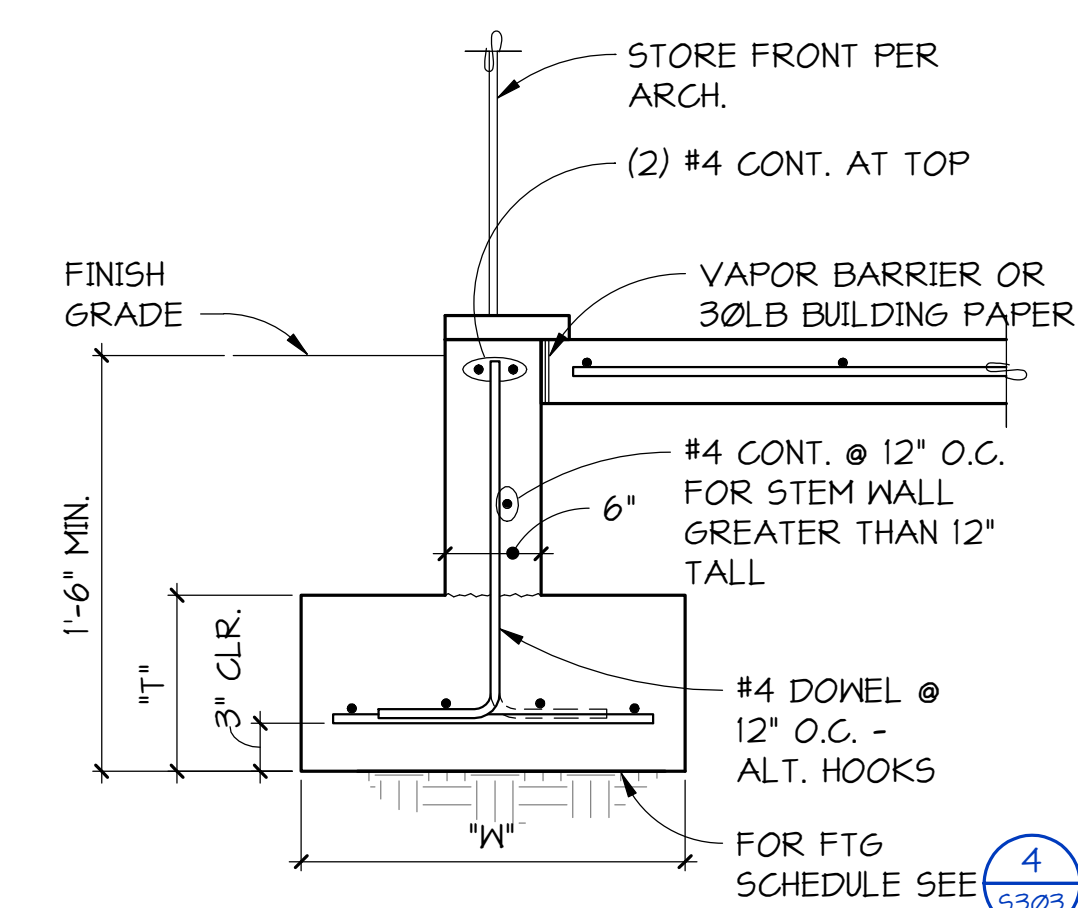
5 SECTION
5303 1" = 1'-0"



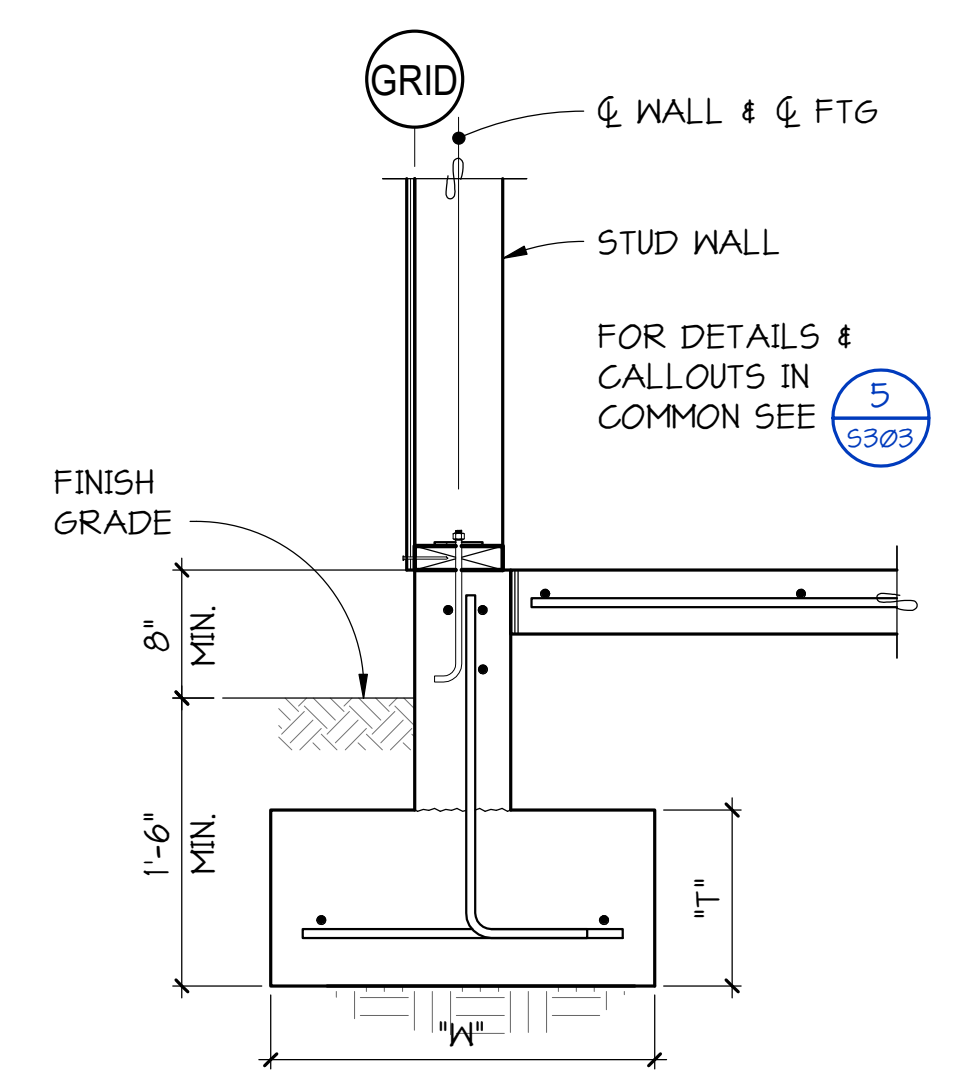
TYPICAL FOUNDATION AT INTERIOR BEARING STUD WALL



TYPICAL THICKENED SLAB FOR NON-BEARING SHEAR WALL



TYPICAL FOUNDATION AT STOREFRONT WINDOW



TYPICAL FOUNDATION AT EXTERIOR BEARING STUD WALL

6 SECTION
5303 1" = 1'-0"

7 SECTION
5303 1" = 1'-0"

8 SECTION
5303 1" = 1'-0"

9 SECTION
5303 1" = 1'-0"

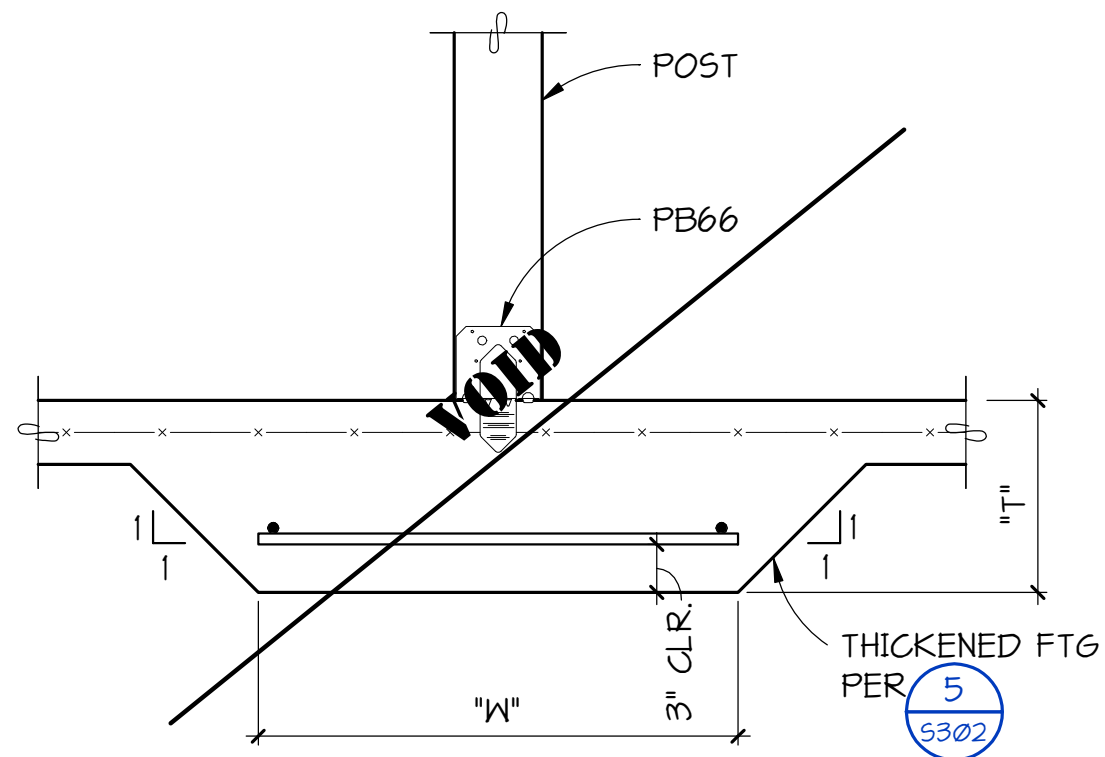
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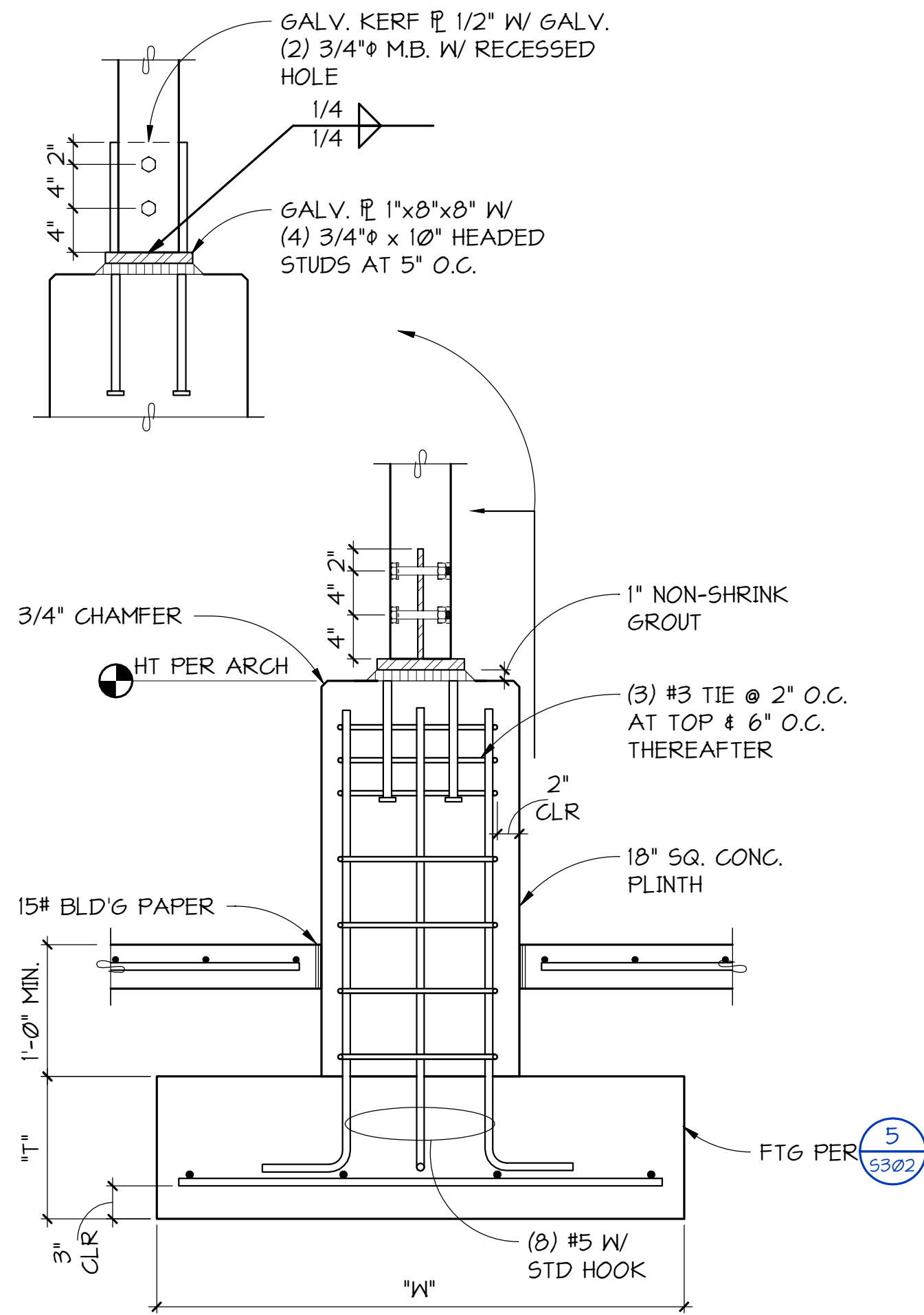
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1
5304 1" = 1'-0"



2
5304 1" = 1'-0"

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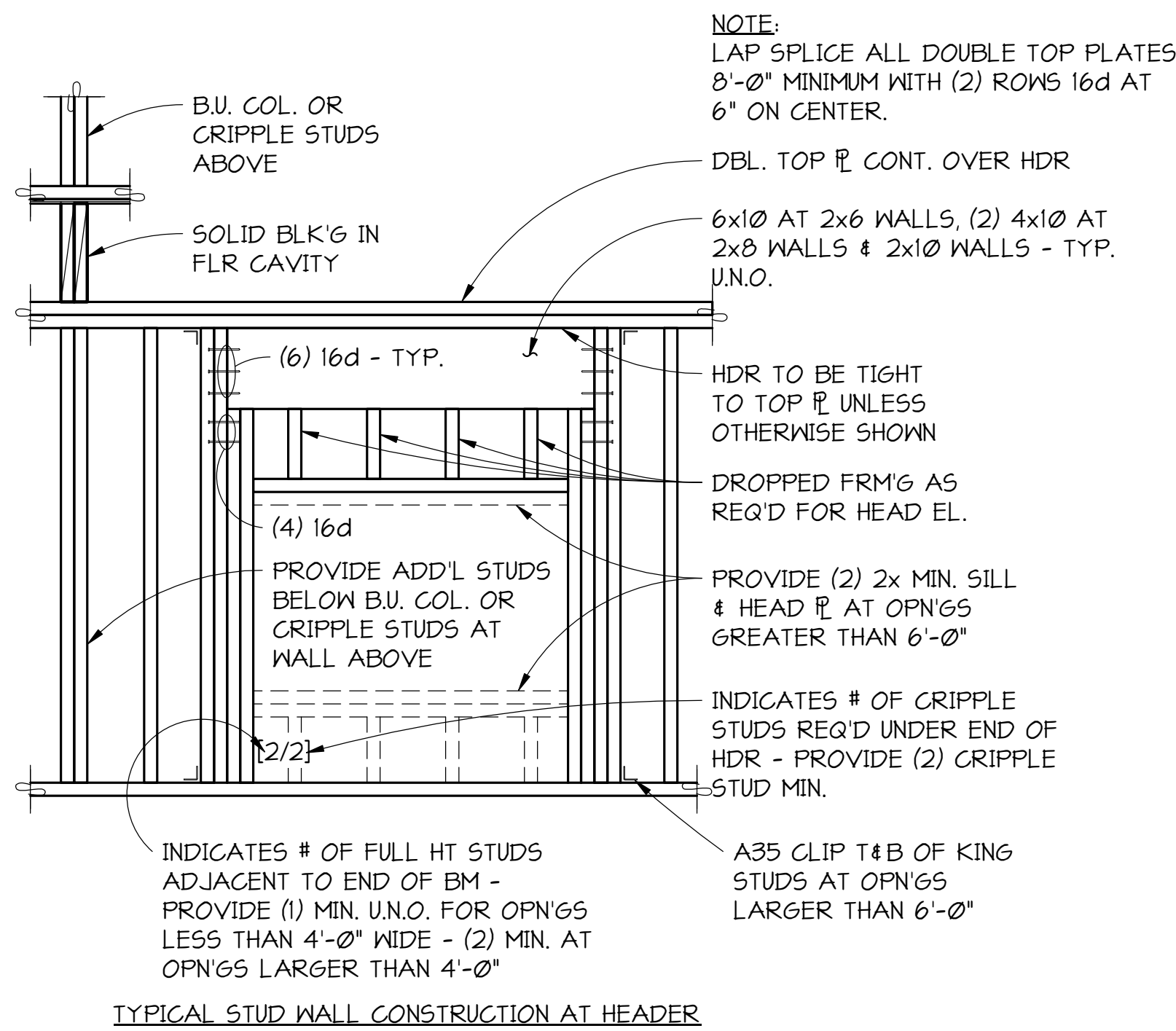
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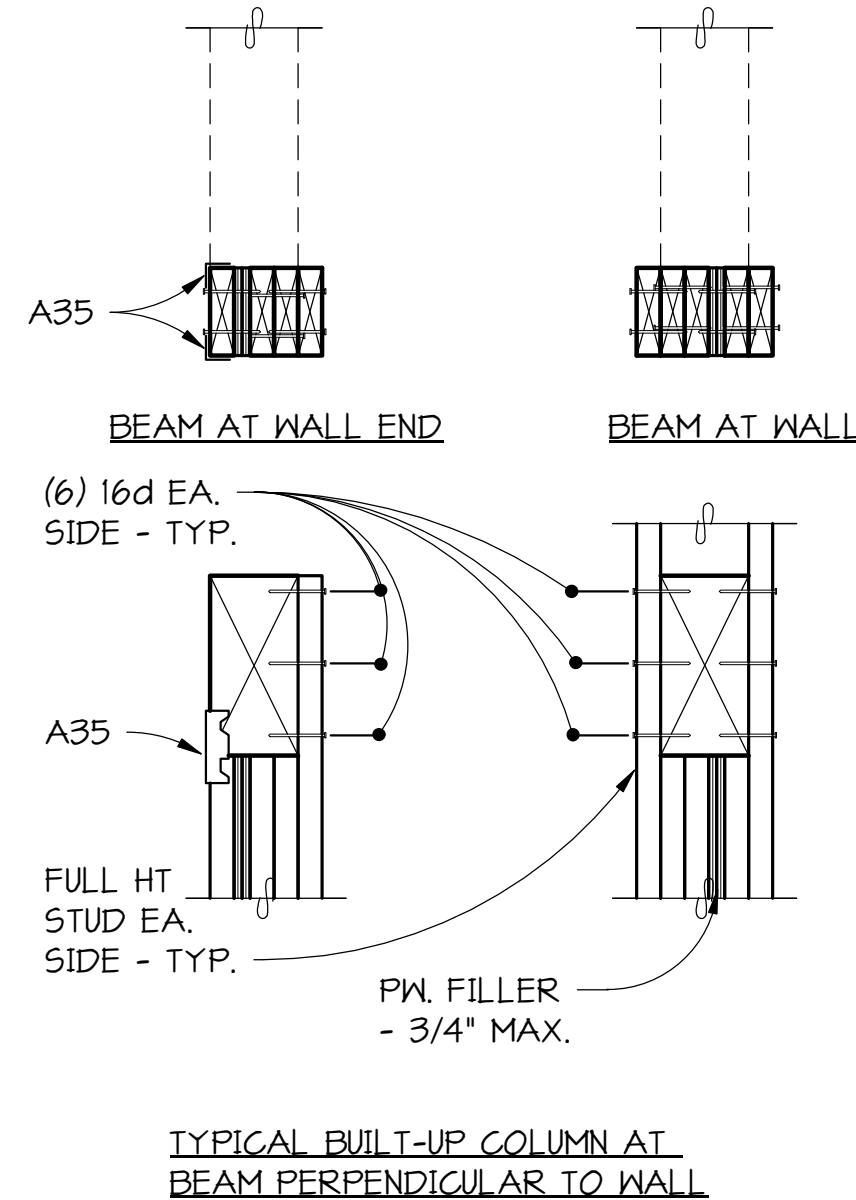
REV #	DATE	DESCRIPTION



TYPICAL STUD WALL CONSTRUCTION AT HEADER

1 SECTION
5/4/01 3/4" = 1'-0"

NOTE:
LAP SPLICE ALL DOUBLE TOP PLATES
8'-0" MINIMUM WITH (2) ROWS 16d AT
6" ON CENTER.



2 DETAIL
5/4/01 1" = 1'-0"

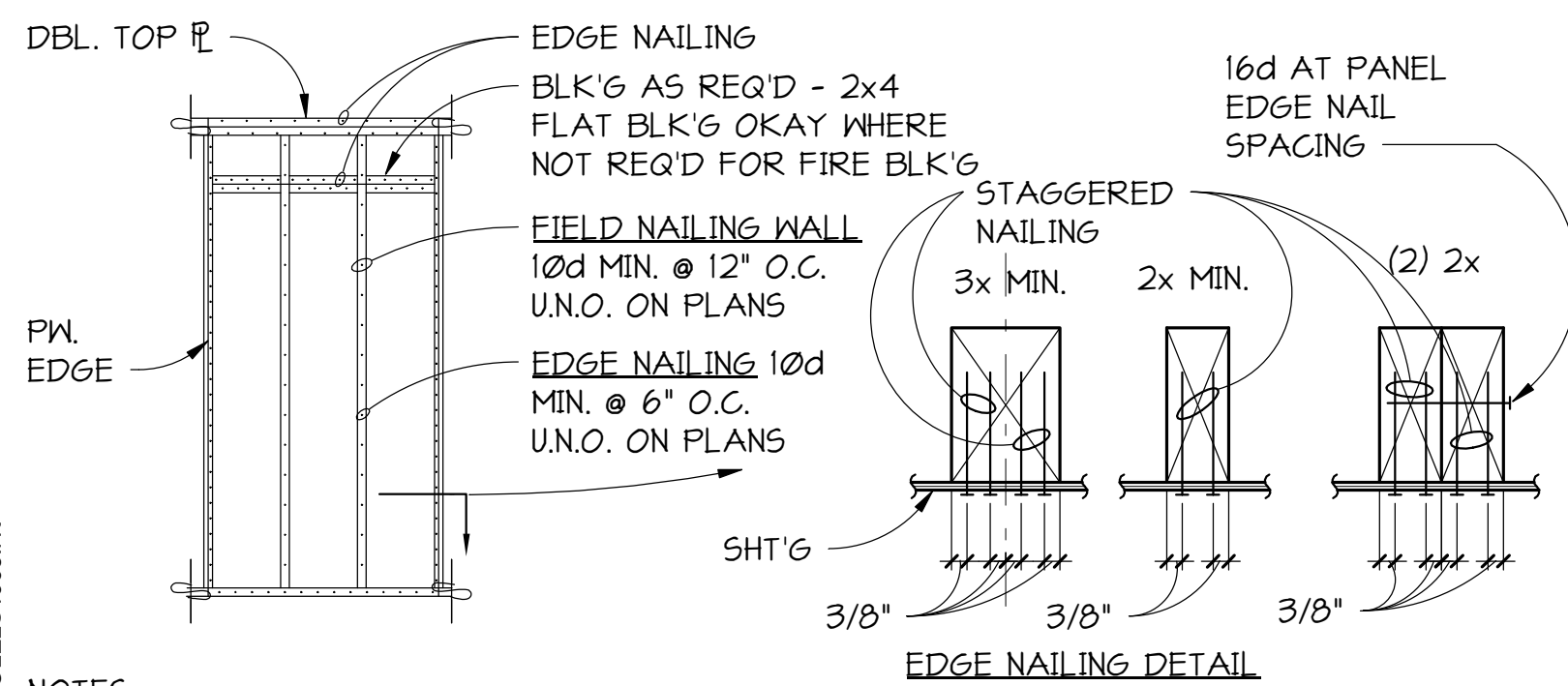
STUD WALL CONSTRUCTION SCHEDULE				
SHEAR WALL REQUIREMENTS				
MARK	SHEATHING REQUIREMENTS	EDGE NAILING	FIELD NAILING	GALVANIZED 3/4" ANCHOR BOLT SPACING
(A)	15/32" SHT'G - ONE SIDE	10d @ 6" O.C.	10d @ 12" O.C.	4'-0" O.C.
(B) 10	15/32" SHT'G - ONE SIDE	10d @ 4" O.C.	10d @ 12" O.C.	4'-0" O.C.
(C) 10	15/32" SHT'G - ONE SIDE	10d @ 3" O.C.	10d @ 12" O.C.	3'-0" O.C.
(D) 10	15/32" SHT'G - TWO SIDES	10d @ 4" O.C.	10d @ 12" O.C.	2'-8" O.C.

NOTES:

- (xx) INDICATES SPECIAL STRUCTURAL WALL TYPE. ALL WALLS SHOWN ON STRUCTURAL DRAWINGS ARE 2x6 AT 16" ON CENTER UNLESS DESIGNATED SPECIAL. STUD LAYOUT SHALL MATCH FRAMING MEMBER LAYOUT ABOVE WHERE APPLICABLE. ALL EXTERIOR WALLS SHALL HAVE 15/32" WOOD SHEATHING AND BE NAILED WITH 10d AT 6" ON CENTER AT EDGES AND 12" ON CENTER IN FIELD UNLESS DESIGNATED SPECIAL.
- ALL EXTERIOR WALLS AND ALL DESIGNATED SHEAR WALLS SHALL BE BLOCKED AT ALL SHEATHING EDGES. EDGE NAILING APPLIES TO ALL TOP AND BOTTOM PLATES, VERTICAL JOINTS, HORIZONTAL BLOCKED JOINTS, WALL CORNERS AND HOLD-DOWN ANCHORED STUDS - SEE 4/5401.
- FOR BEAMS OR HEADERS FRAMED INTO WALLS AND A COLUMN IS NOT CALLED OUT, PROVIDE BUILT-UP COLUMN PER 2/5401 FOR BEAM PERPENDICULAR TO WALL.
- [X/X] INDICATES BUILT-UP STUD COLUMNS AT HEADERS IN WALLS - SEE 1/5401 FOR BEAM PARALLEL TO WALL.
- ALL ANCHOR BOLTS SHALL HAVE A GALVANIZED 3"x3"x1/4" PLATE WASHER. A BOLT SHALL BE LOCATED NO MORE THAN 12" NOR LESS THAN 6" FROM ENDS OF EACH PLATE PER 5/5401. EMBED ALL ANCHOR BOLTS 7" MINIMUM UNLESS NOTED OTHERWISE. PROVIDE GALVANIZED 3/4" DIAMETER ANCHOR BOLTS AT 4'-0" ON CENTER MINIMUM AT WALLS THAT DON'T REQUIRE SHEATHING.
- PROVIDE ADDITIONAL BLOCKING IN JOIST SPACE TO MATCH BEARING STUDS WHERE NOT ALIGNED WITH FLOOR FRAMING.
- SOLE PLATE NAILING SHALL BE 16d AT PANEL EDGE NAILING SPACING.
- FOR PENETRATION IN DOUBLE TOP PLATE - SEE 1/5402.
- FOR ALLOWABLE PENETRATION THROUGH STUDS - SEE 1/5402.
- PROVIDE 3x TREATED SILL PLATE AT FOUNDATION WITH (2) 2x STUDS FACE NAILED WITH 16d AT PANEL EDGE NAILING SPACING OR A 3x STUD AT ABUTTING PANEL EDGES. PROVIDE HORIZONTAL BLOCKING AT ABUTTING PANEL EDGES.
- THE STUD WALL SCHEDULE ABOVE INDICATES MINIMUM MATERIAL PROPERTIES. LVL OR SCL STUDS MAY BE USED IN LIEU OF SOLID SAWN STUDS WHERE LENGTH CANNOT BE OBTAINED.

3 SCHEDULE
5/4/01 1" = 1'-0"

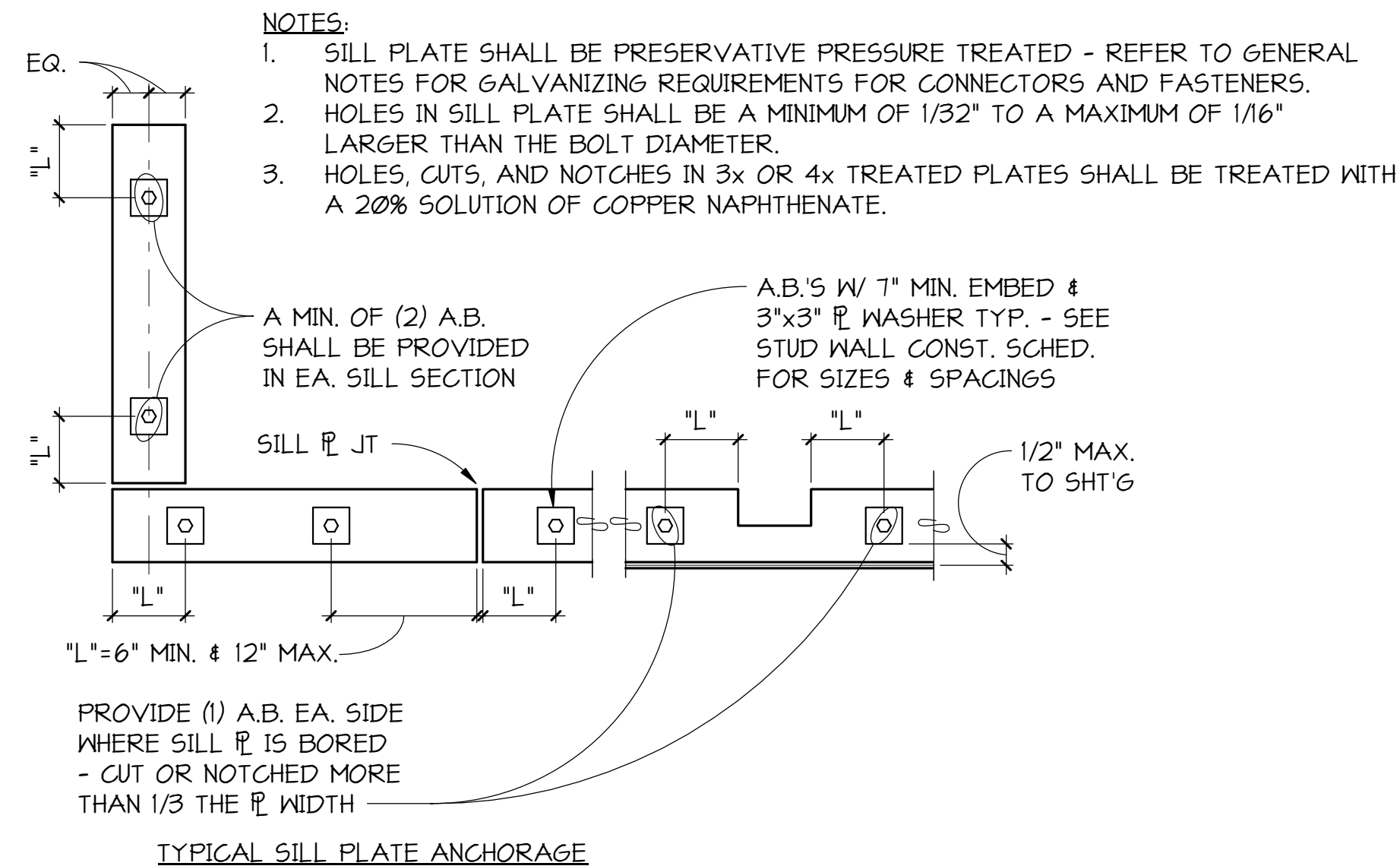
SPECIAL STUD SPACING REQUIREMENTS		
MARK	STUD SIZE AND SPACING	NUMBER STUDS REQUIRED AT MEMBER BEARING
(1)	2x6 @ 16" O.C.	(1) 2x6
(2)	2x6 @ 12" O.C.	(1) 2x6
(3)	2x8 @ 16" O.C.	(1) 2x8
(4)	2x8 @ 12" O.C.	(1) 2x8



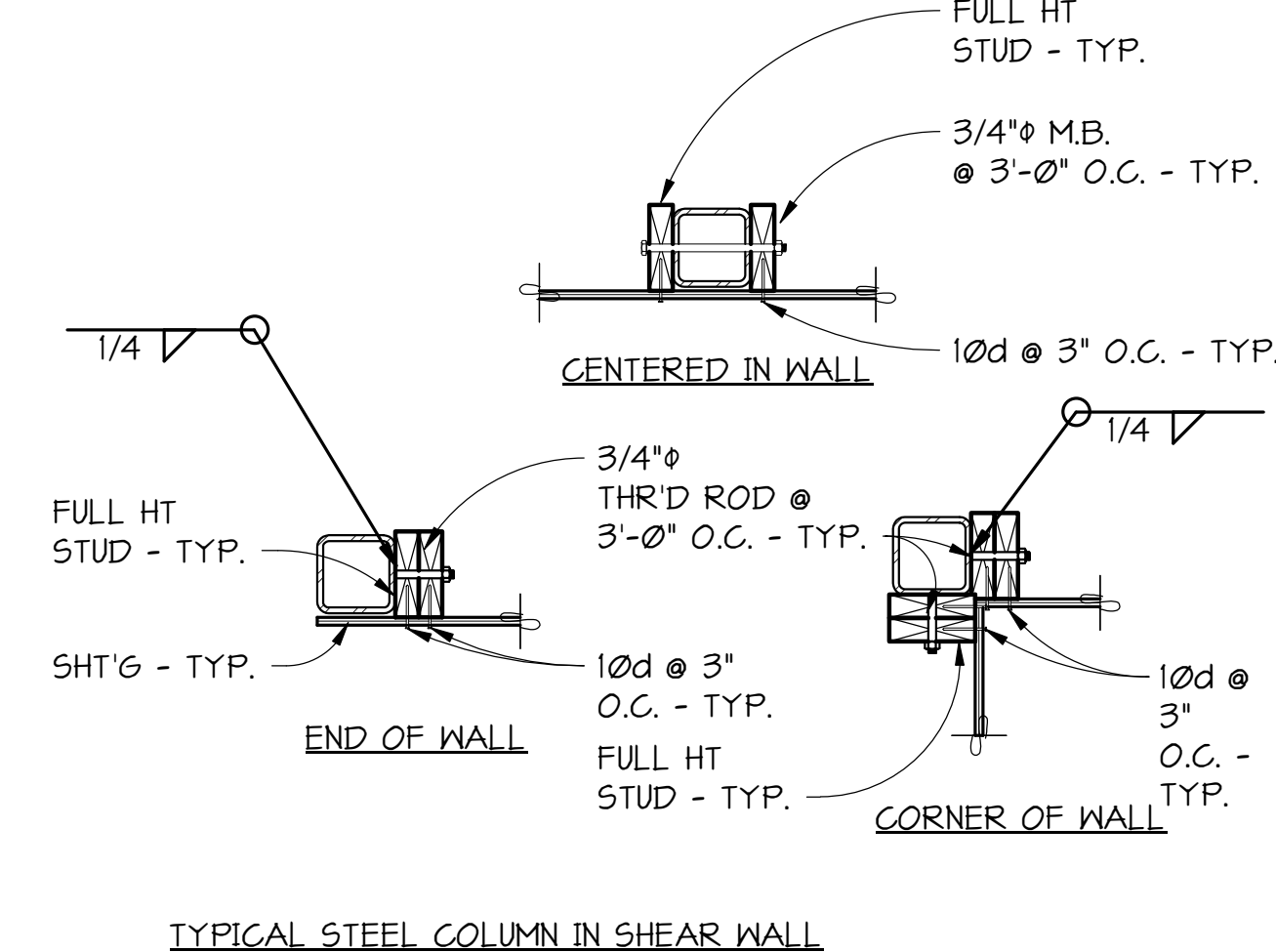
TYPICAL SHEAR WALL NAILING

4 DETAIL
5/4/01 1" = 1'-0"

- NOTES:
- PANEL EDGE NAILING AND PLATE NAILING SHALL BE STAGGERED IN ALL CASES.
 - SHEATHING JOINT SHALL OCCUR AT COMMON MEMBER.
 - EDGE NAILING AS CALLED FOR ON PLANS AND DETAILS APPLIES TO AREAS INDICATED AND AT HOLD-DOWN ANCHORED STUDS.



5 DETAIL
5/4/01 1" = 1'-0"

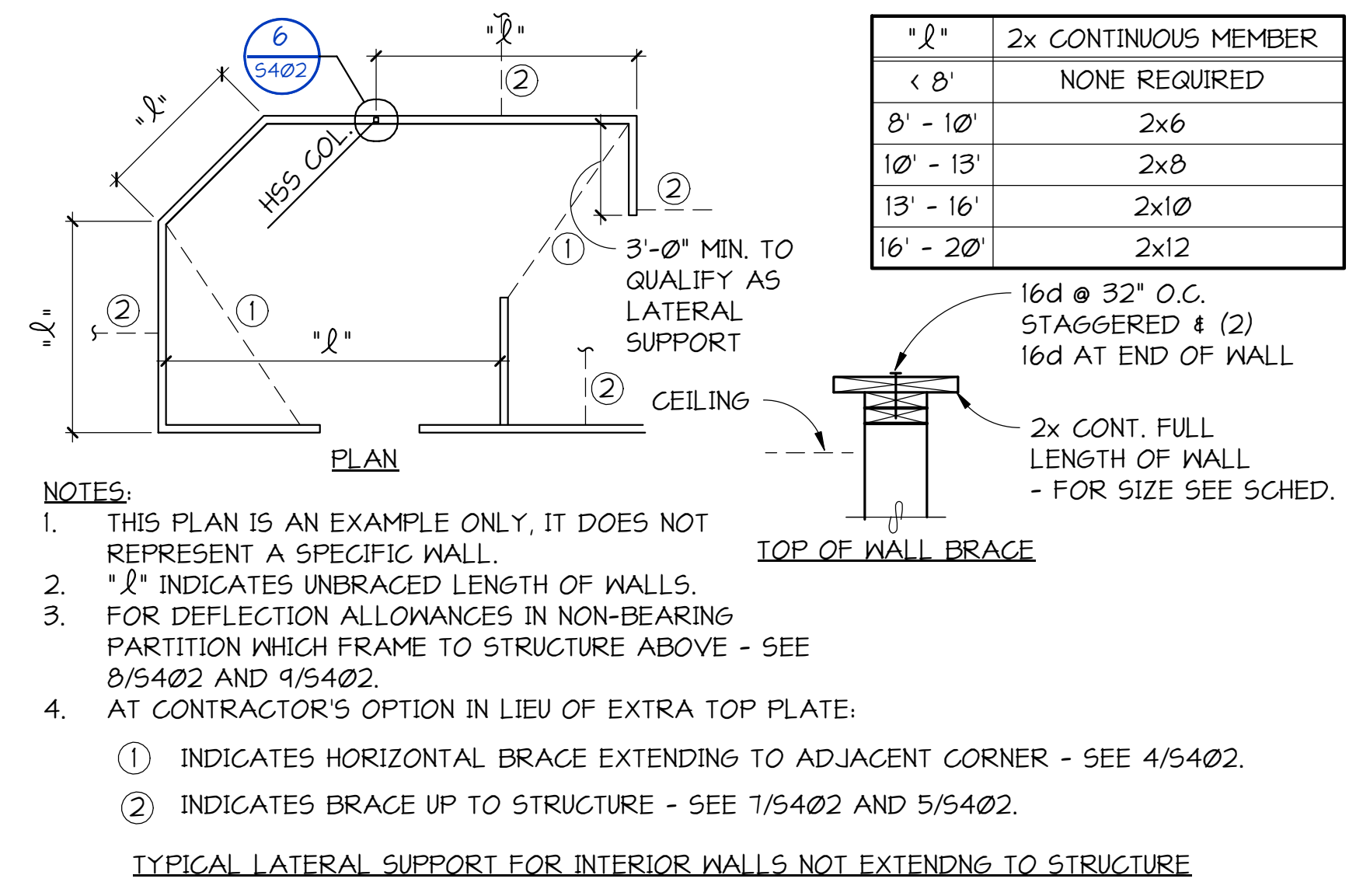
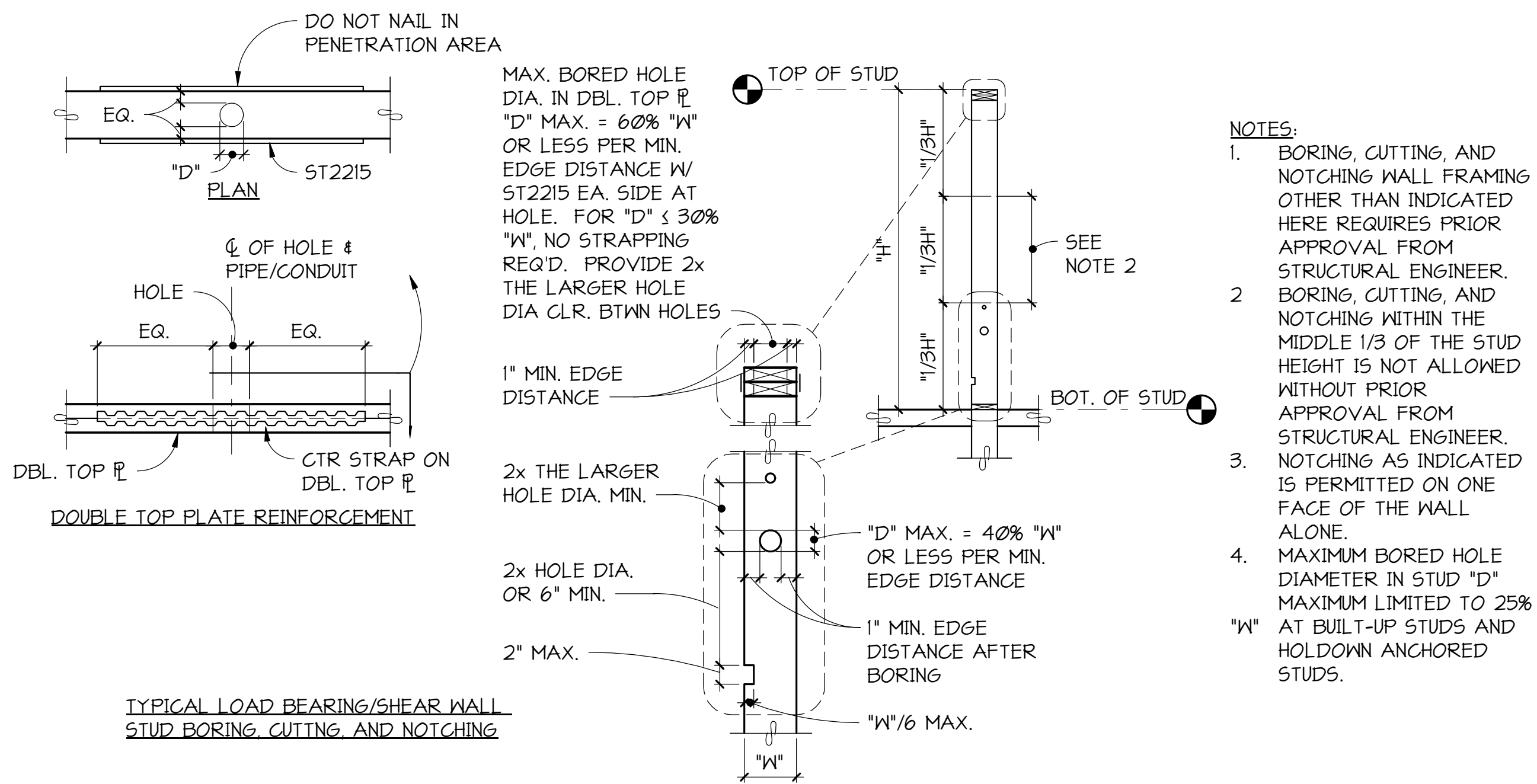


6 PLAN DETAIL
5/4/01 1" = 1'-0"

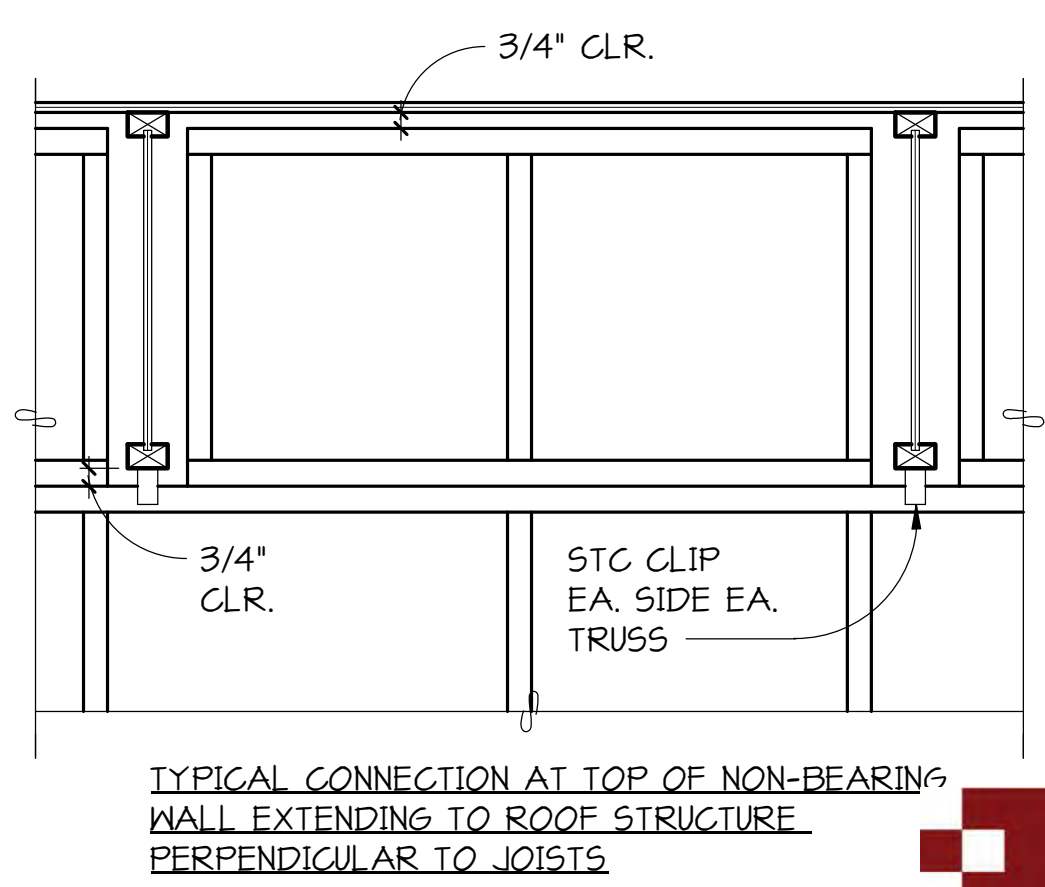
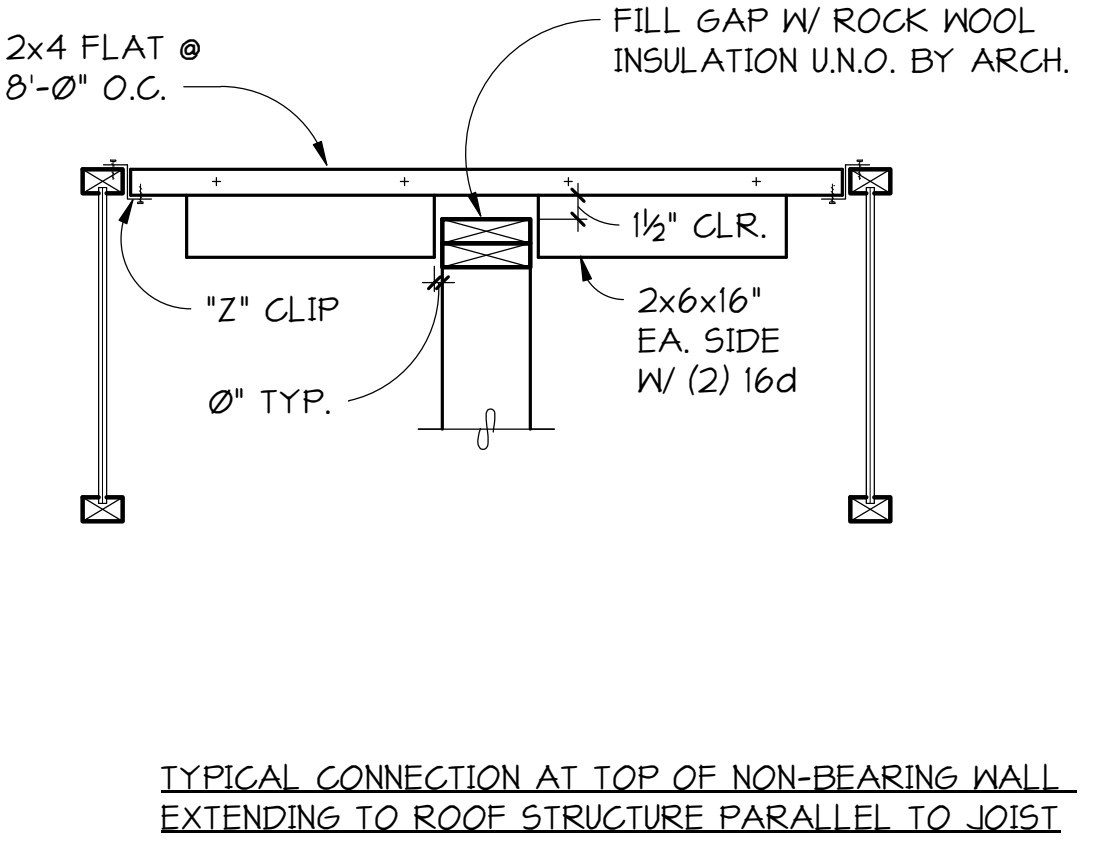
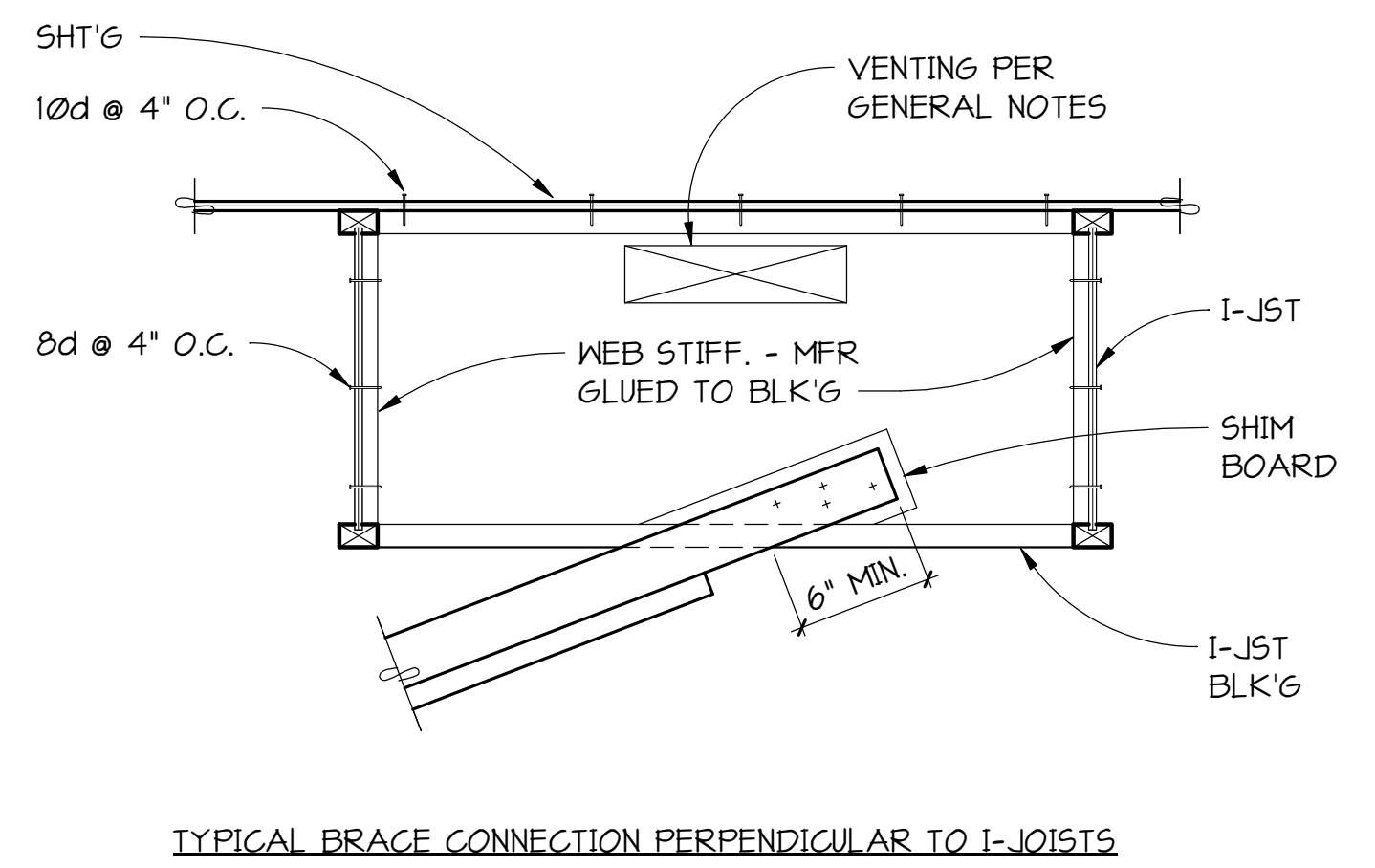
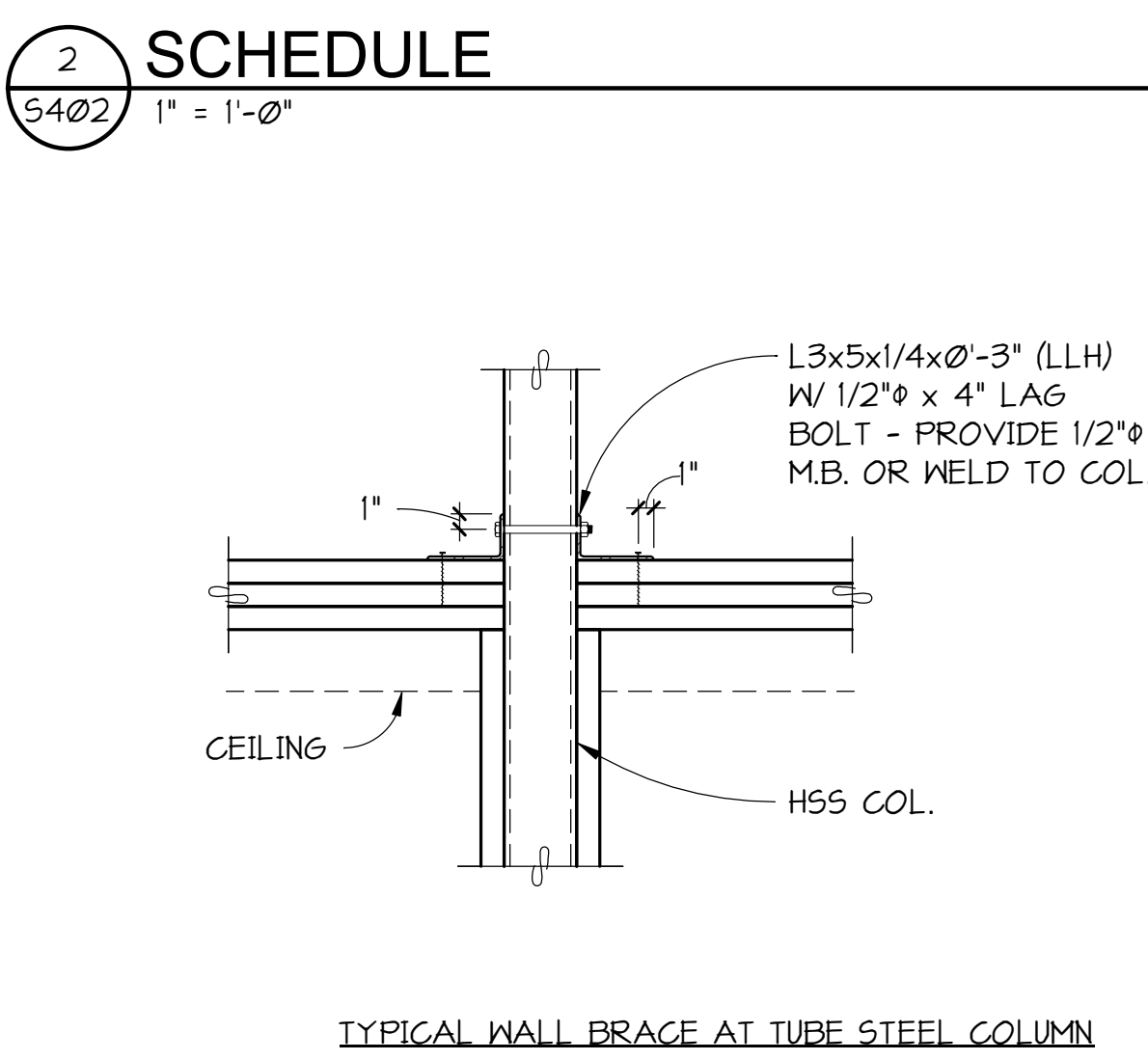
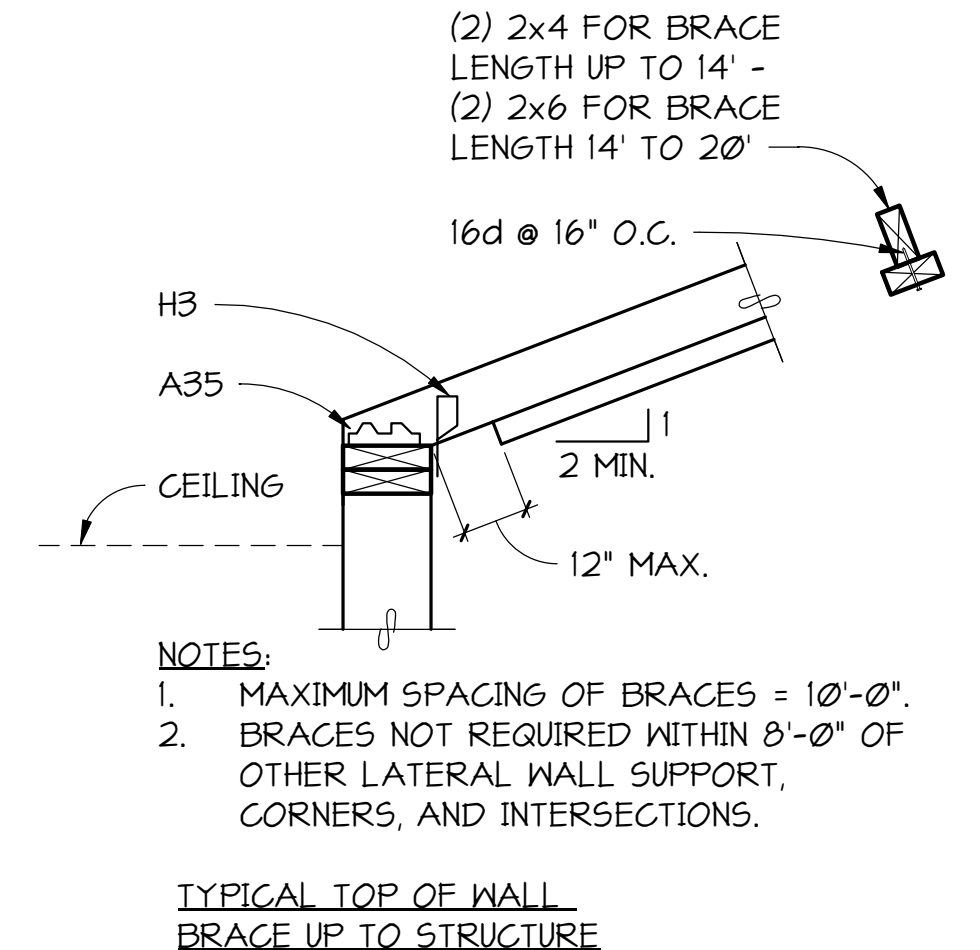
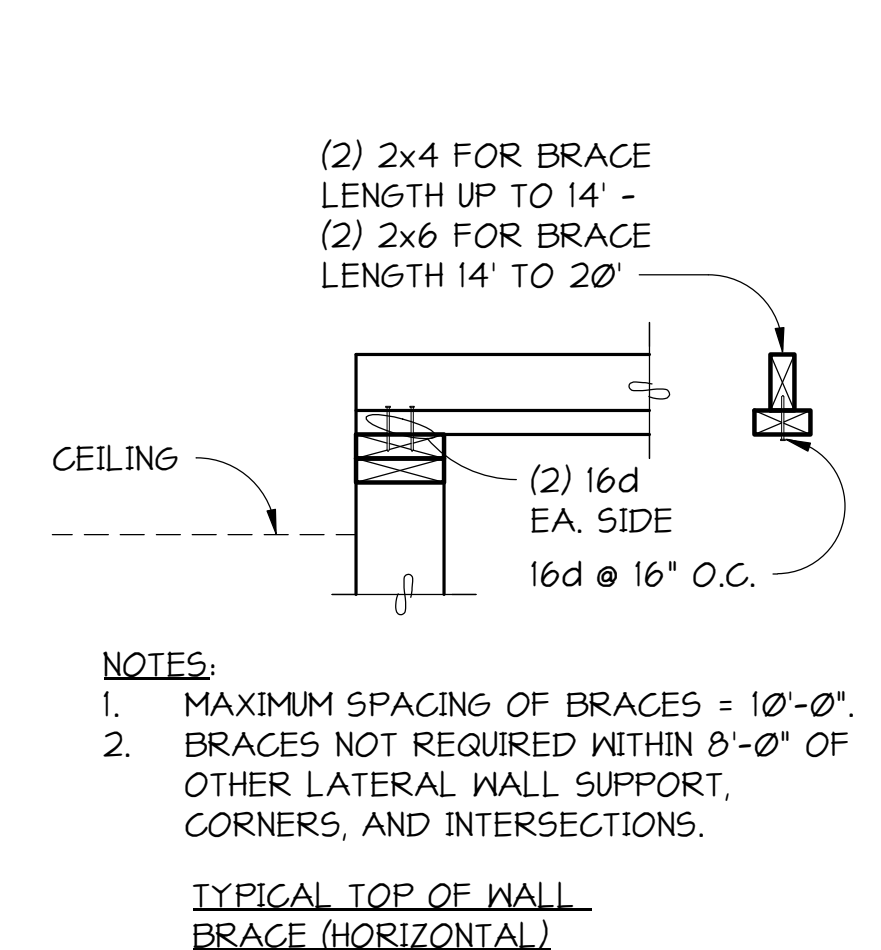
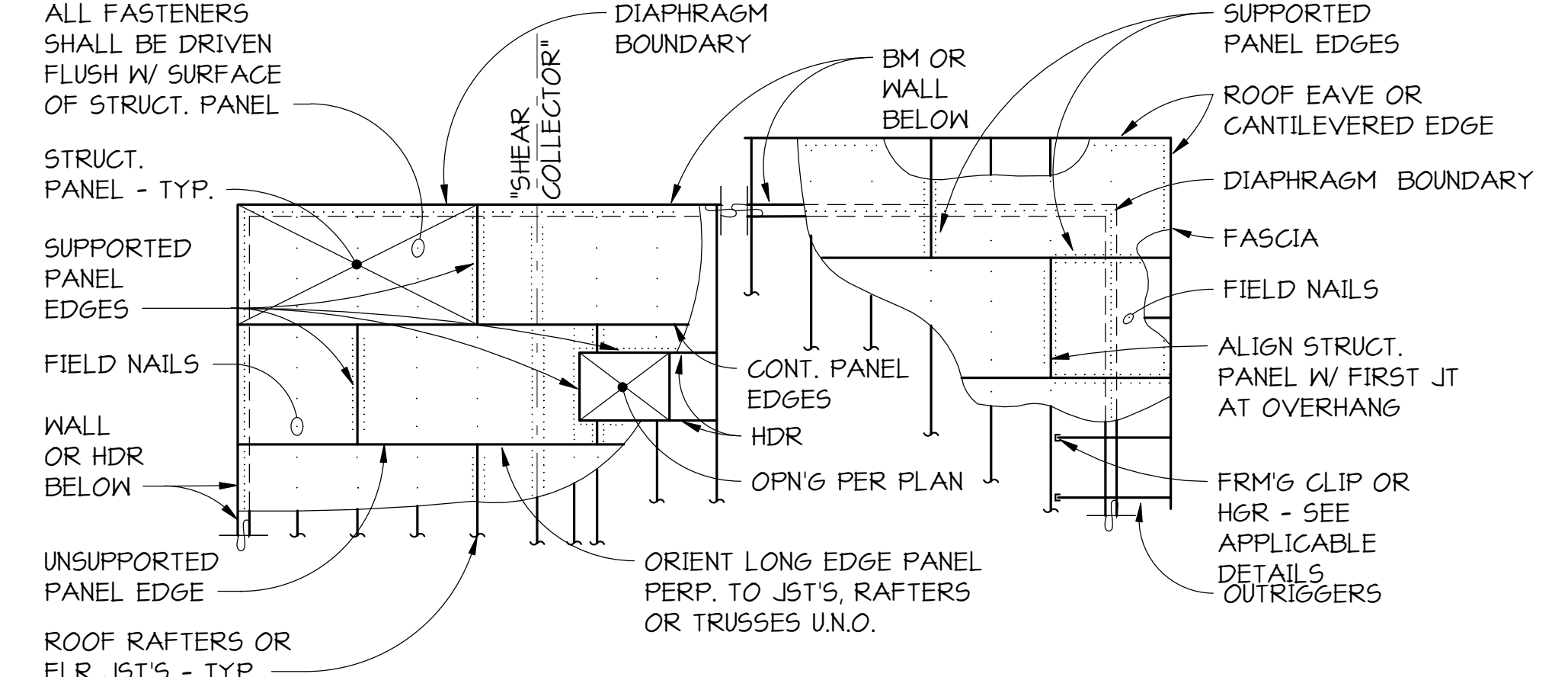
WALL FRAMING DETAILS

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DIAPHRAGM NAILING SCHEDULE			
DIAPHRAGM TYPE	LOCATION	NAILES	SPACING
FLOOR 23/32" TONGUE AND GROOVE PLYWOOD	DIAPHRAGM BOUNDARY	10d	6" O.C.
	FIELD NAILS	10d	10" O.C.
	SUPPORTED PANEL EDGES	10d	6" O.C.
ROOF DIAPHRAGM 19/32" P.W. OR 1-1/8" P.W. TONGUE AND GROOVE SHEATHING WHERE NOTED	DIAPHRAGM BOUNDARY	10d	6" O.C.
	FIELD NAILS	10d	10" O.C.
	SUPPORTED PANEL EDGES	10d	6" O.C.



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WALL FRAMING DETAILS

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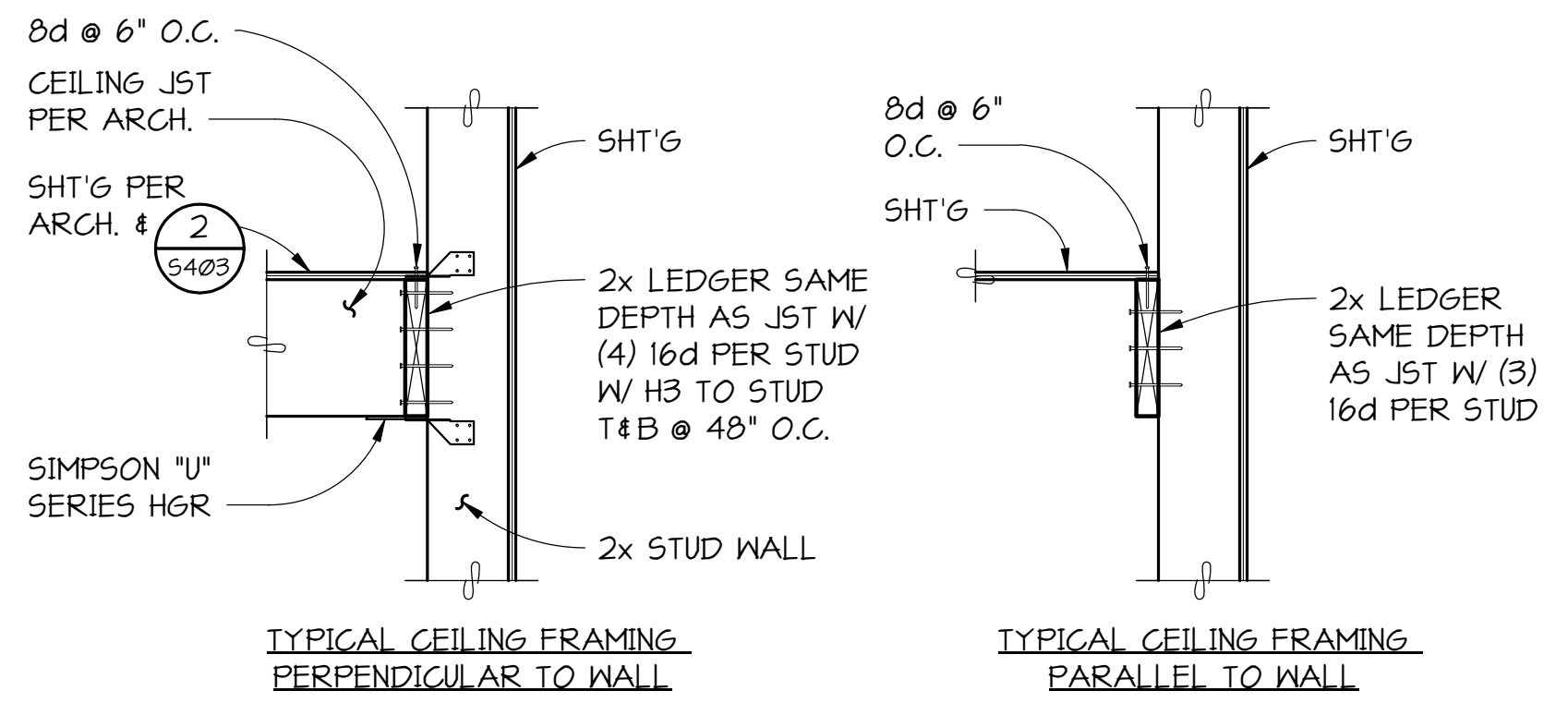
WALL FRAMING DETAILS

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REV #	DATE	DESCRIPTION

CEILING SPAN	FRAMING
0'-0" TO 7'-0"	2x4 @ 16" O.C.
7'-1" TO 11'-0"	2x6 @ 16" O.C.
11'-1" TO 15'-0"	2x8 @ 16" O.C. (1)
15'-1" TO 19'-0"	2x10 @ 16" O.C. (1)
19'-1" TO 22'-0"	2x12 @ 16" O.C. (1)

- NOTES:**
- PROVIDE 2x4 FLAT CONTINUOUS AT 7'-0" ON CENTER MAXIMUM WITH (2) 16d AT EACH JOIST PERPENDICULAR TO THE JOISTS.
 - PROVIDE 2x LEDGER WITH (3) 16d EACH STUD FOR WALLS THAT EXTEND TO THE ROOF/FLOOR STRUCTURE. USE "U" SERIES JOIST HANGERS.
 - COORDINATE CEILING HEIGHTS AND LOCATIONS OF CEILING FRAMING WITH THE ARCHITECT - SEE 1/5403.
 - FOR CONSTRUCTION OF CEILING FRAMING - SEE 3/5403.

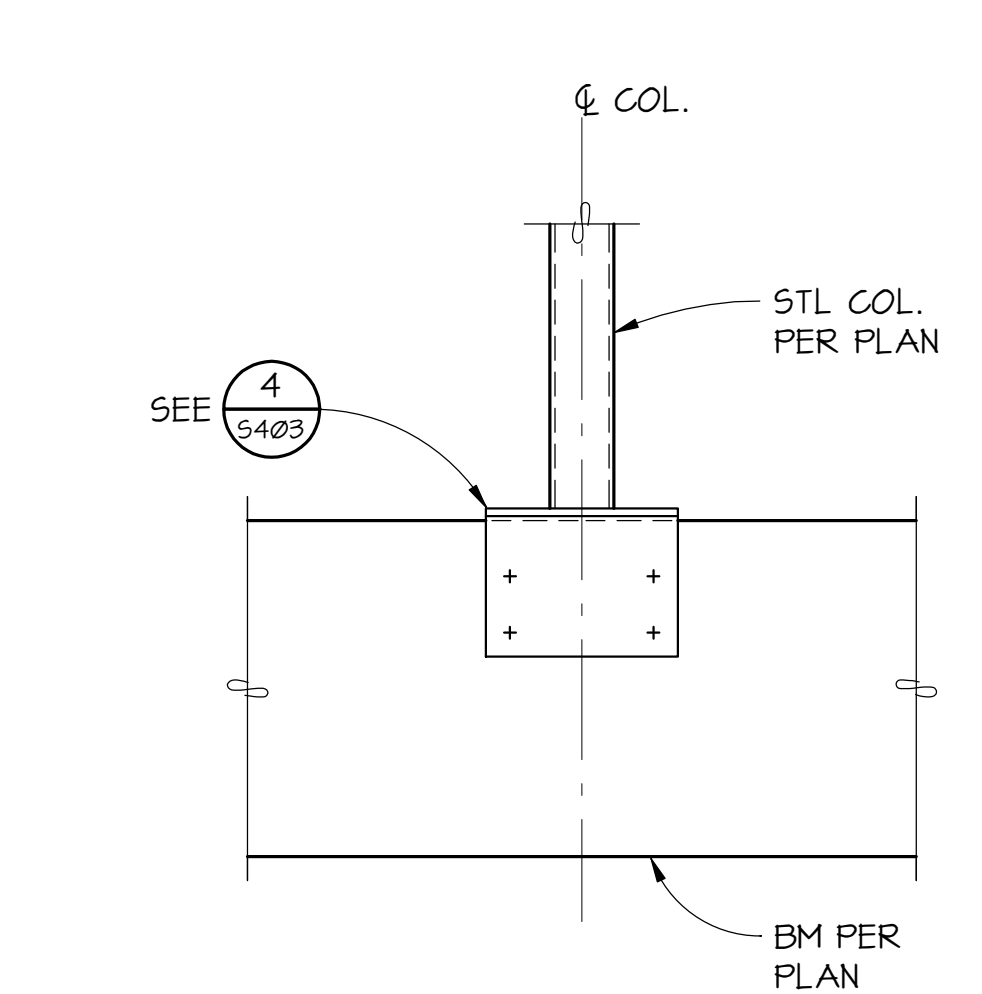
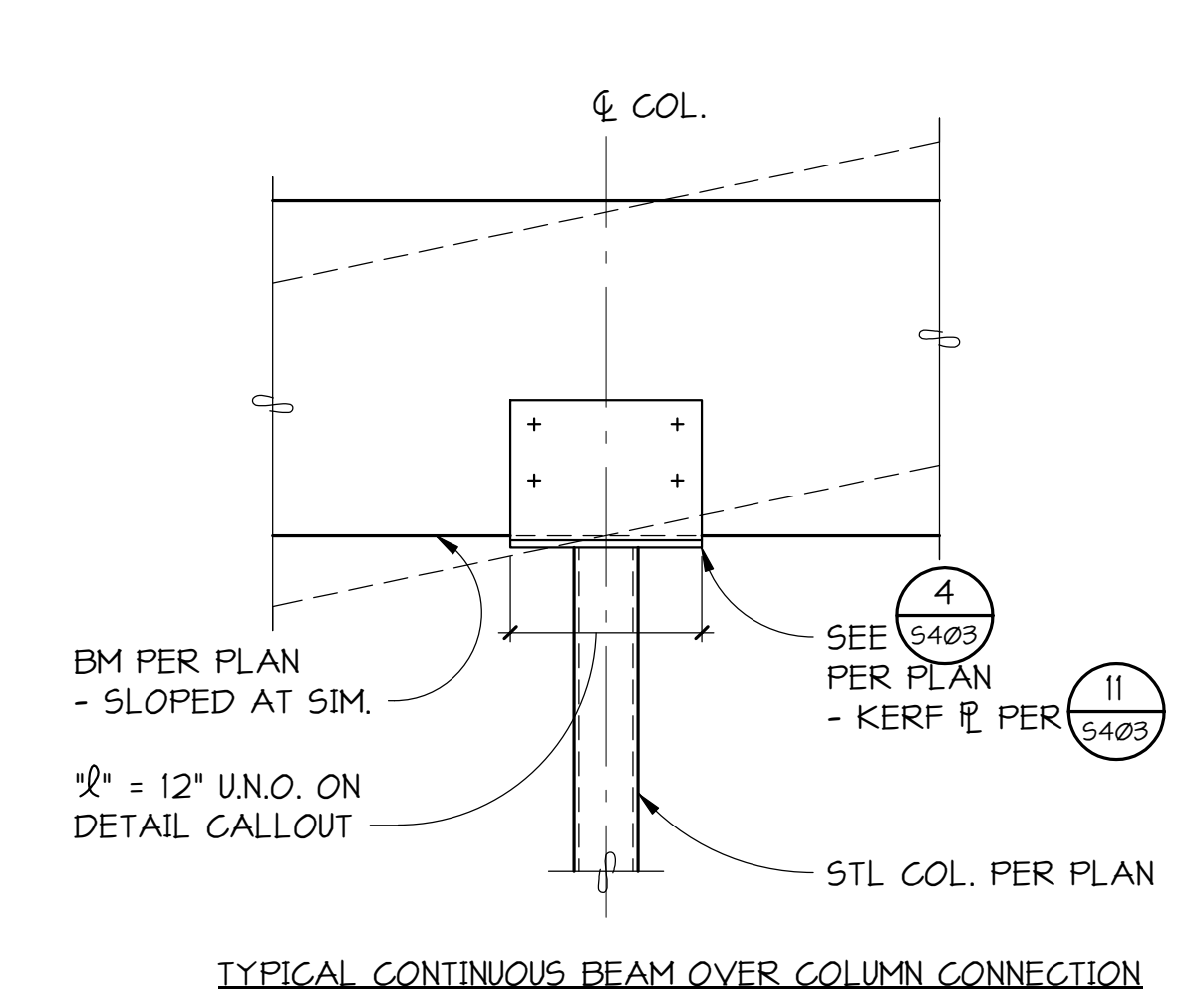
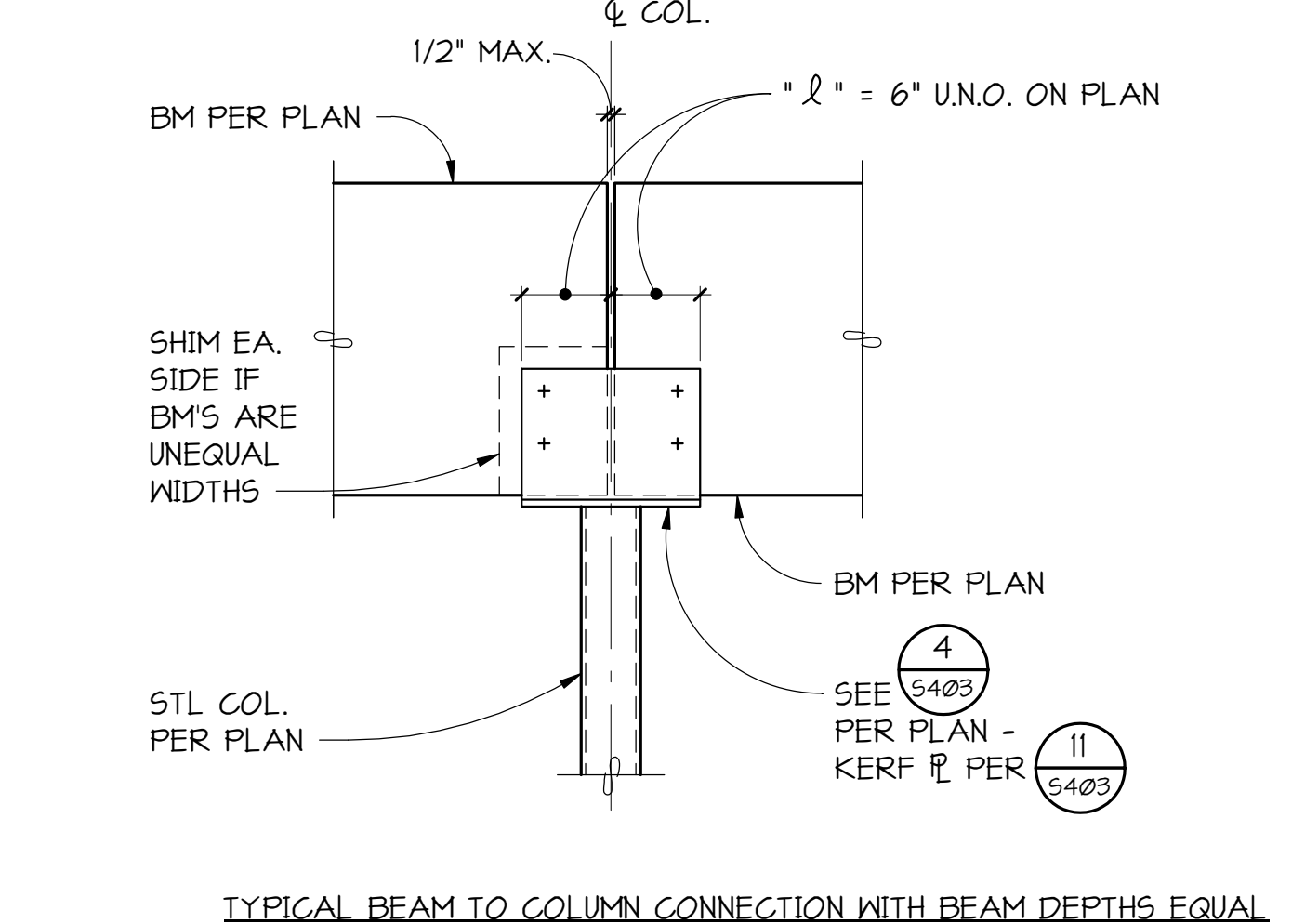
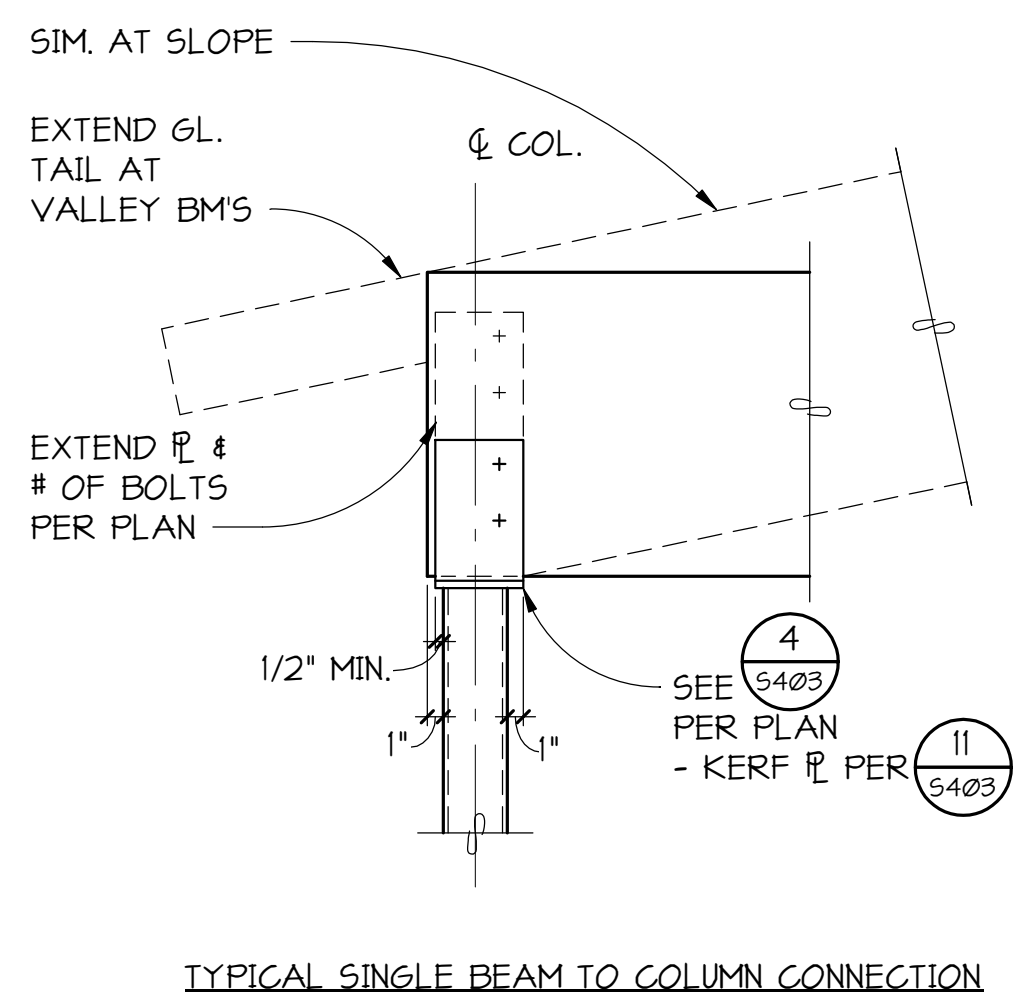


1 SECTION
 5403 1" = 1'-0"

2 SCHEDULE
 5403 1" = 1'-0"

3 SECTION
 5403 1" = 1'-0"

4 DETAIL
 5403 1" = 1'-0"

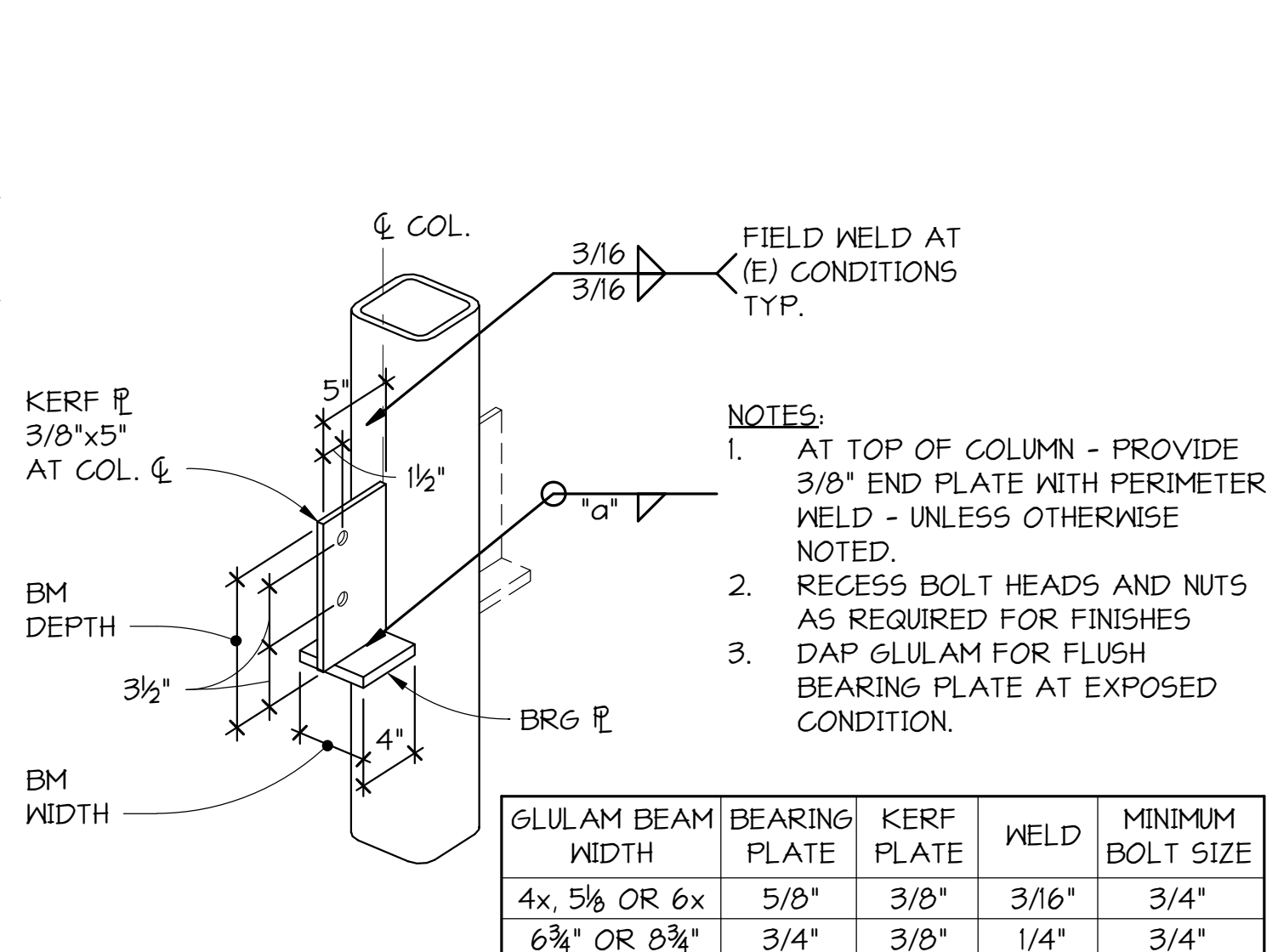


5 SECTION
 5403 1" = 1'-0"

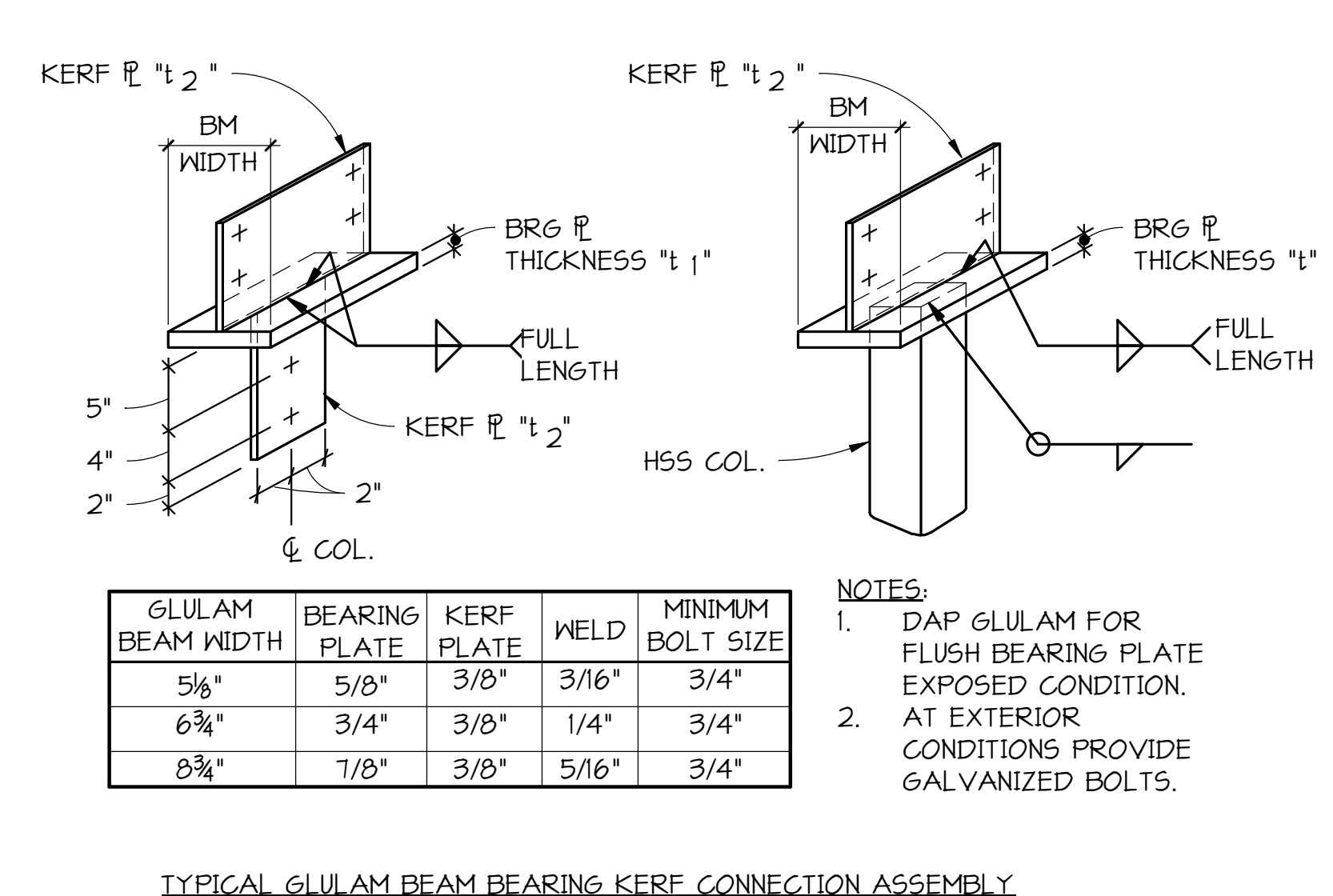
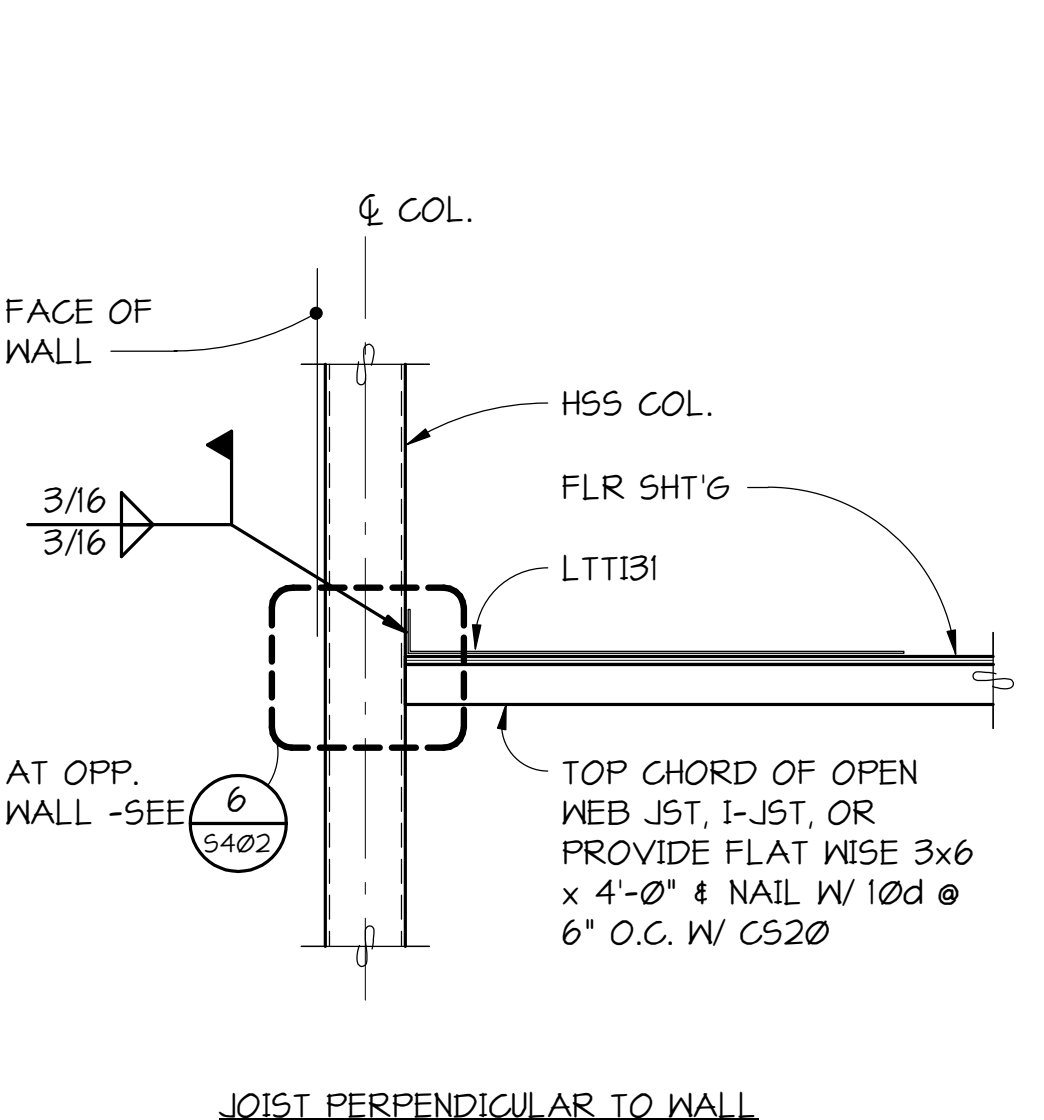
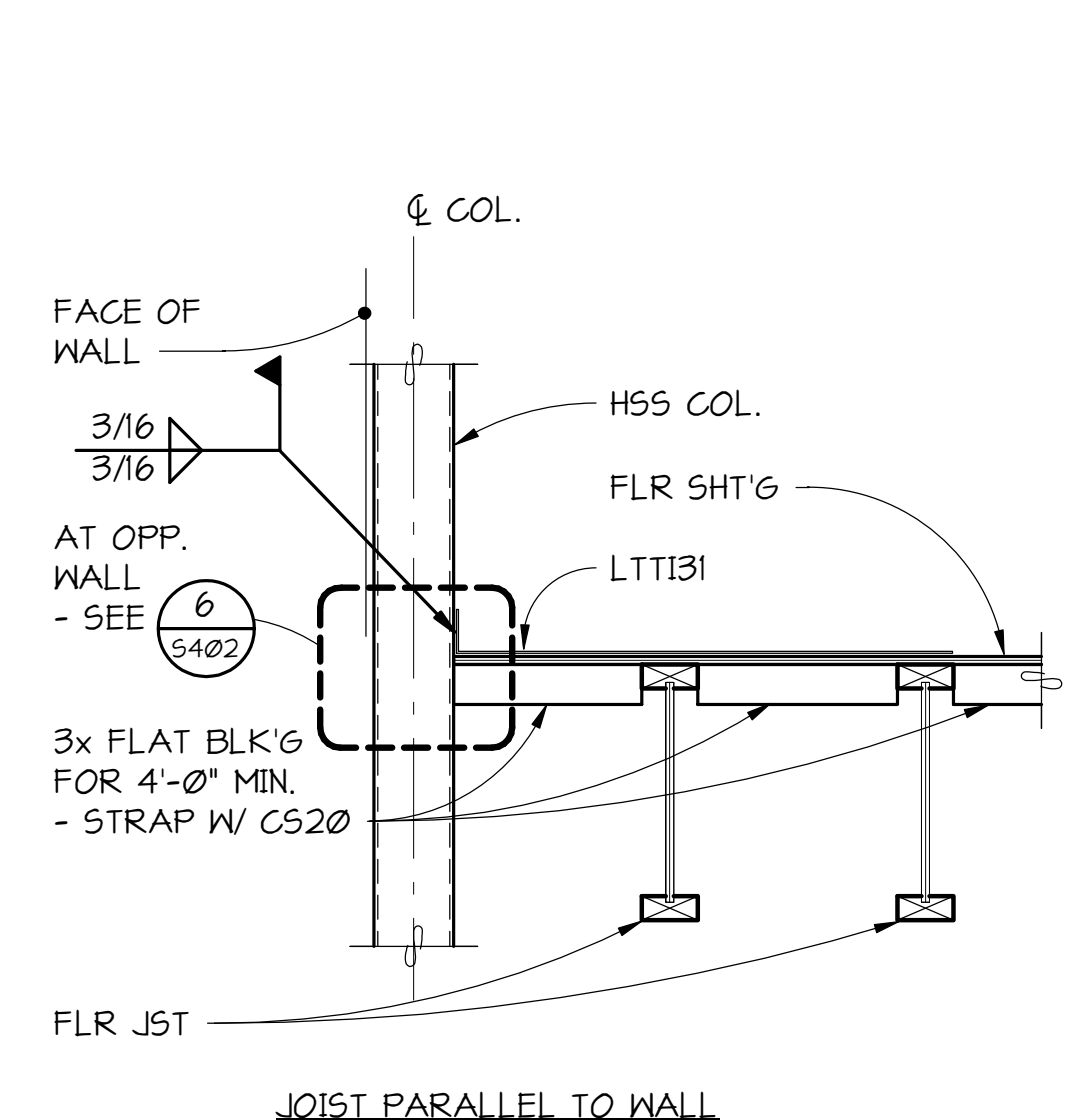
6 SECTION
 5403 1" = 1'-0"

7 SECTION
 5403 1" = 1'-0"

8 SECTION
 5403 1" = 1'-0"



GLULAM BEAM WIDTH	BEARING PLATE	KERF PLATE	WELD	MINIMUM BOLT SIZE
4x, 5 1/8" OR 6x	5/8"	3/8"	3/16"	3/4"
6 3/4" OR 8 3/4"	3/4"	3/8"	1/4"	3/4"



GLULAM BEAM WIDTH	BEARING PLATE	KERF PLATE	WELD	MINIMUM BOLT SIZE
5 1/8"	5/8"	3/8"	3/16"	3/4"
6 3/4"	3/4"	3/8"	1/4"	3/4"
8 3/4"	7/8"	3/8"	5/16"	3/4"

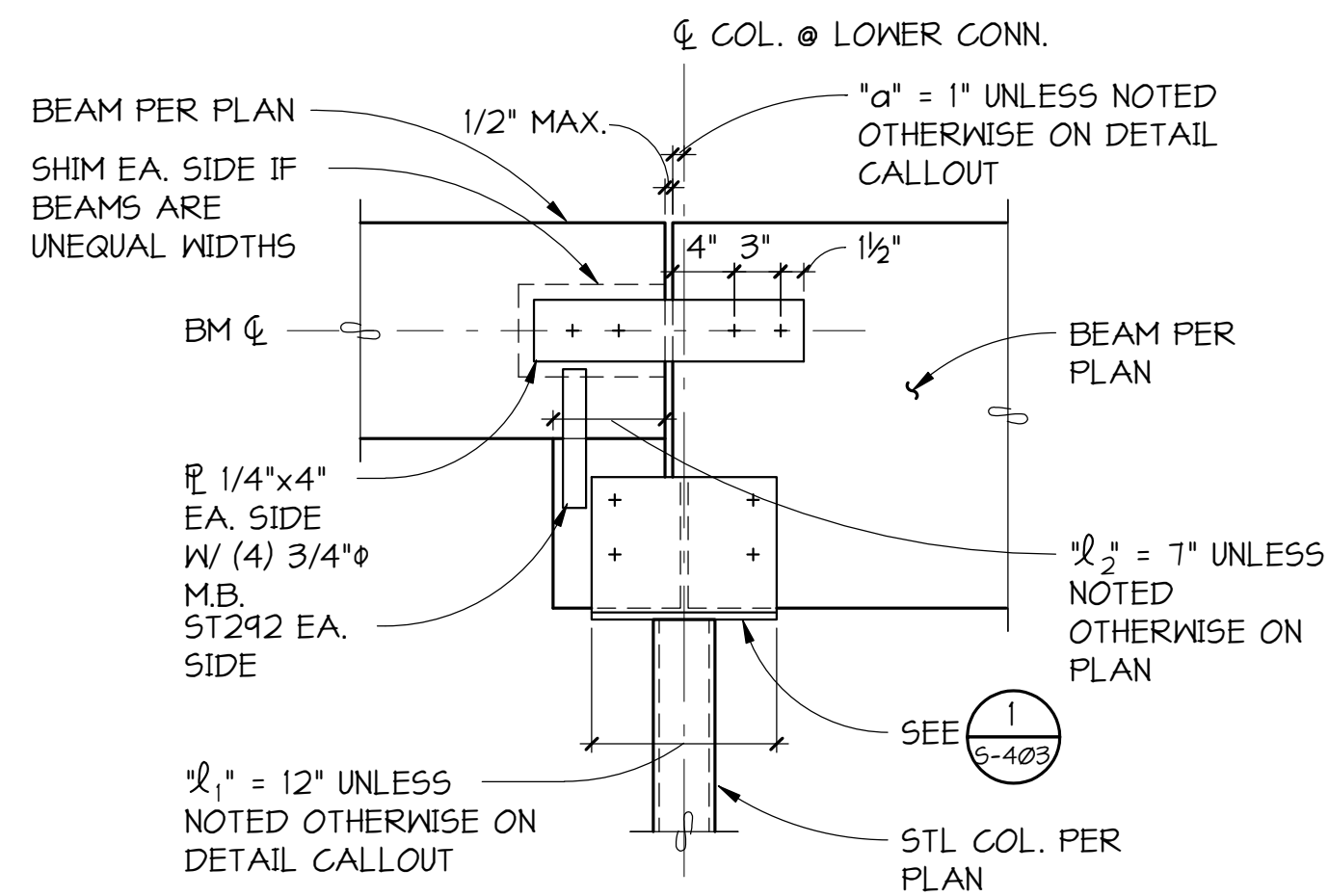
- NOTES:**
- DAP GLULAM FOR FLUSH BEARING PLATE EXPOSED CONDITION.
 - AT EXTERIOR CONDITIONS PROVIDE GALVANIZED BOLTS.

9 SECTION
 5403 1 1/2" = 1'-0"

10 SECTION
 5403 1" = 1'-0"

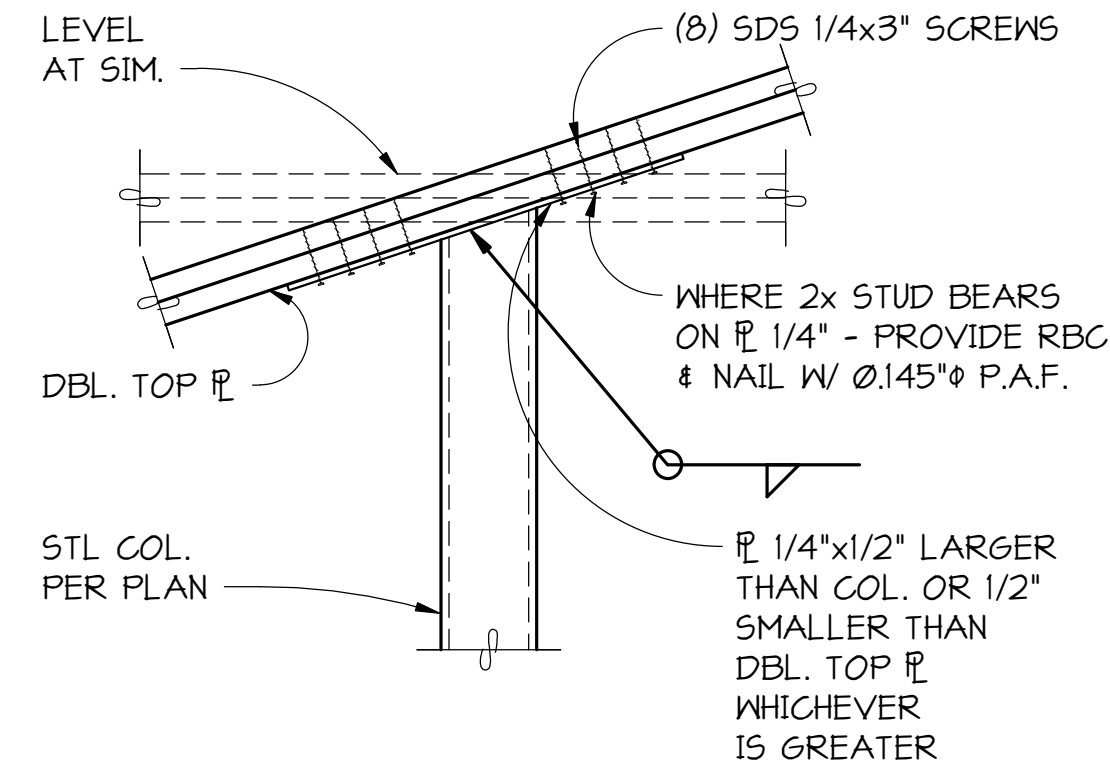
11 SECTION
 5403 1" = 1'-0"

CL_Revit Model: 23372 MOUNTAIN VIEW LIBRARY R24 (CENTRAL)_SOLELS 1965.rvt
 12/20/2023 8:53:39 AM



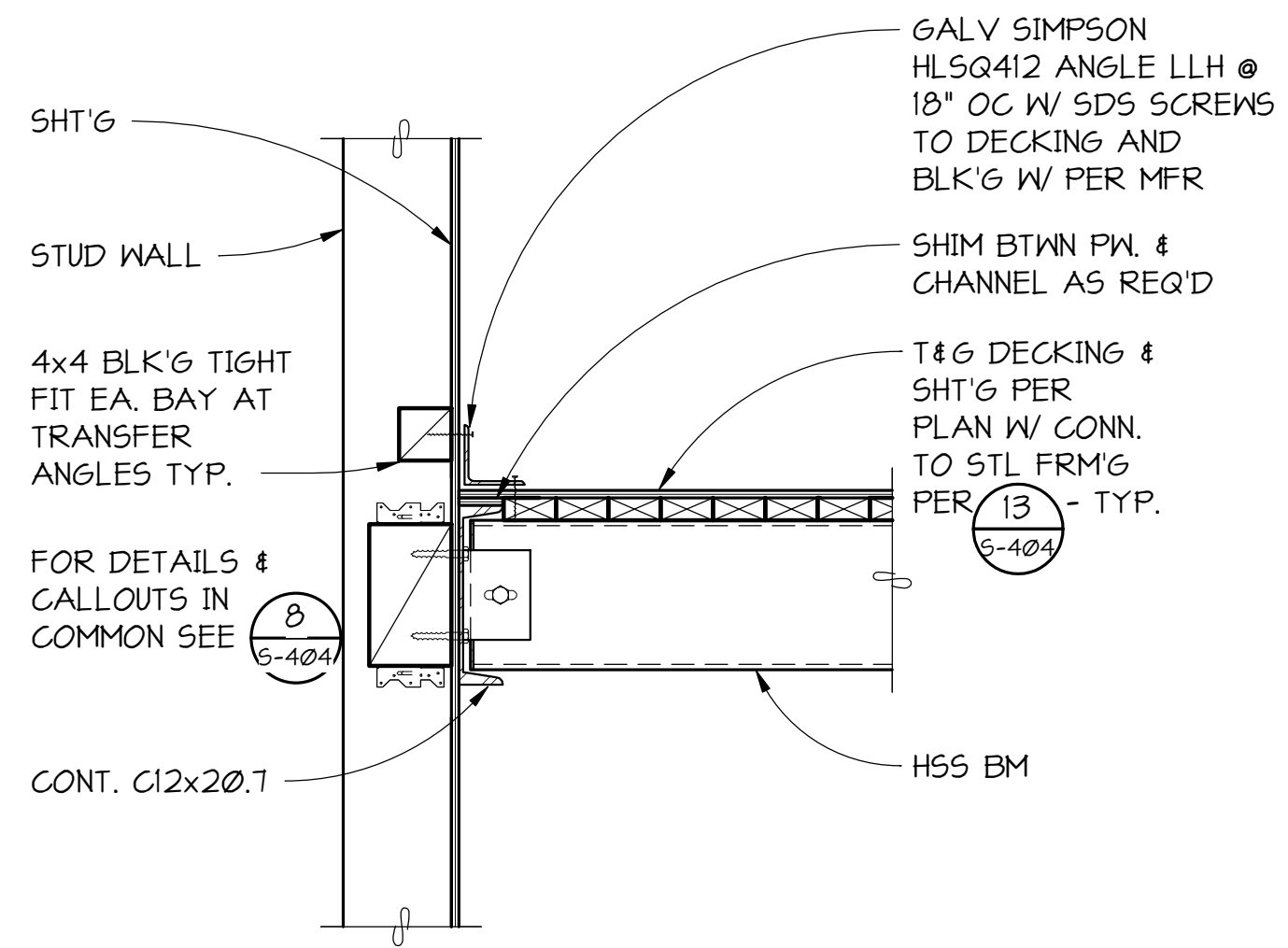
TYPICAL BEAM TO COLUMN CONNECTION WITH BEAM DEPTHS UNEQUAL BY GREATER THAN 1/2"

1 SECTION
 5404 1" = 1'-0"



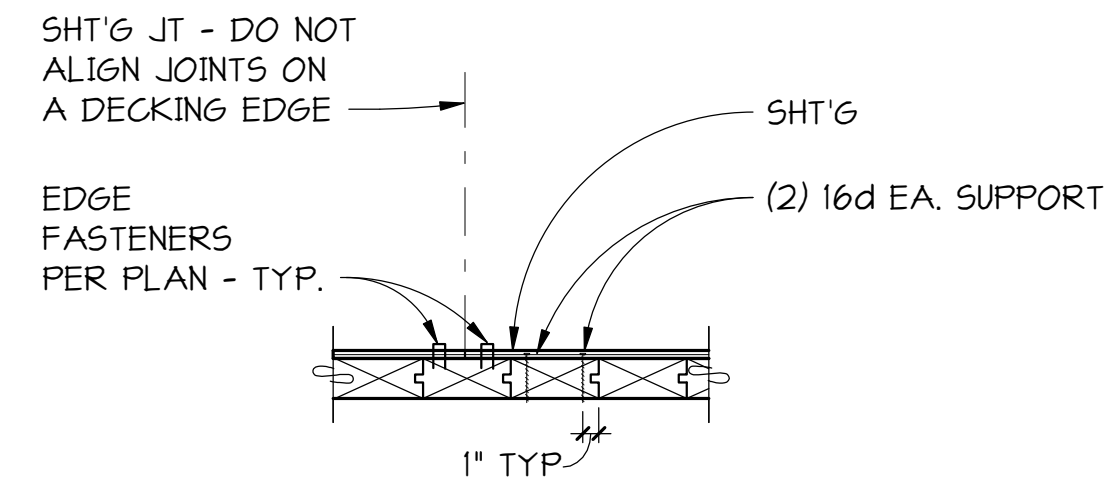
TYPICAL FOLDING WALL SUPPORT AT WOOD BEAM

3 SECTION
 5404 1" = 1'-0"



TYPICAL ROOF DECKING LAYUP AND FASTENERS

4 SECTION
 5404 1" = 1'-0"



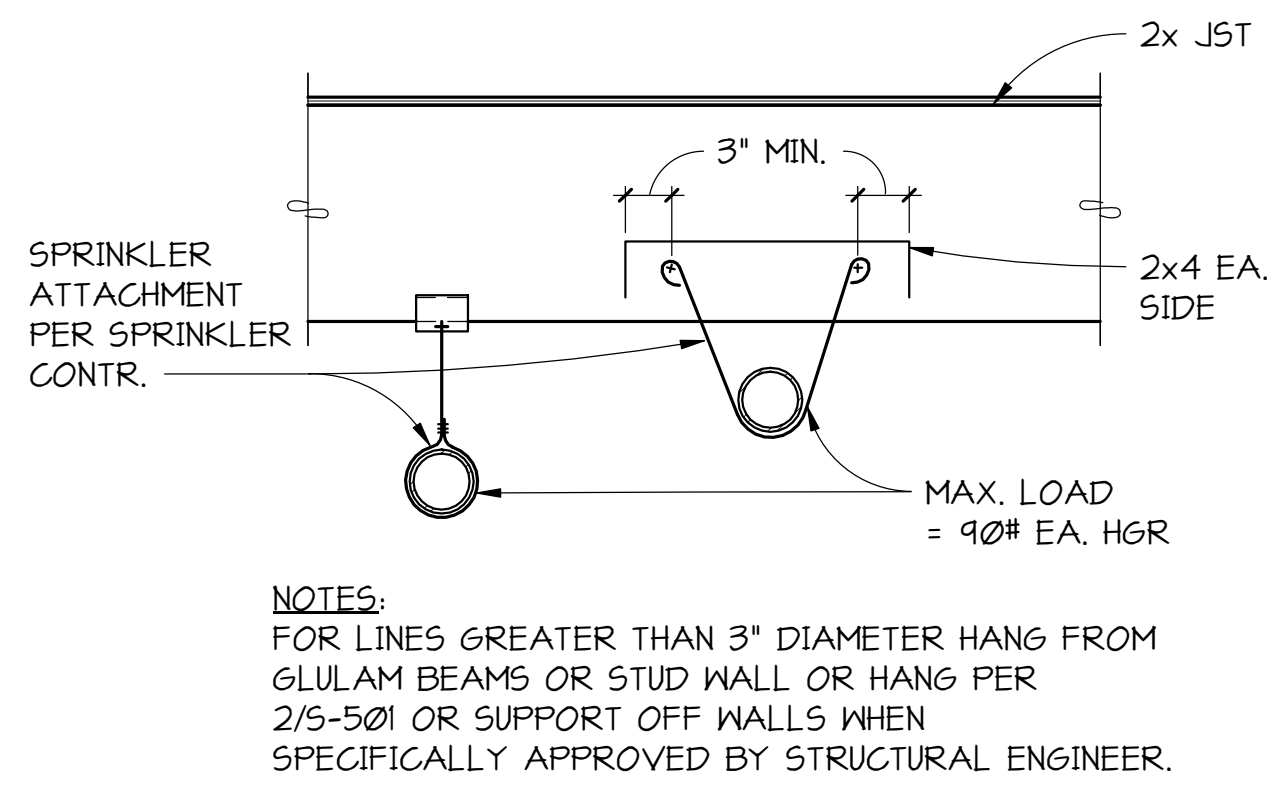
5 DETAIL
 5404 1" = 1'-0"

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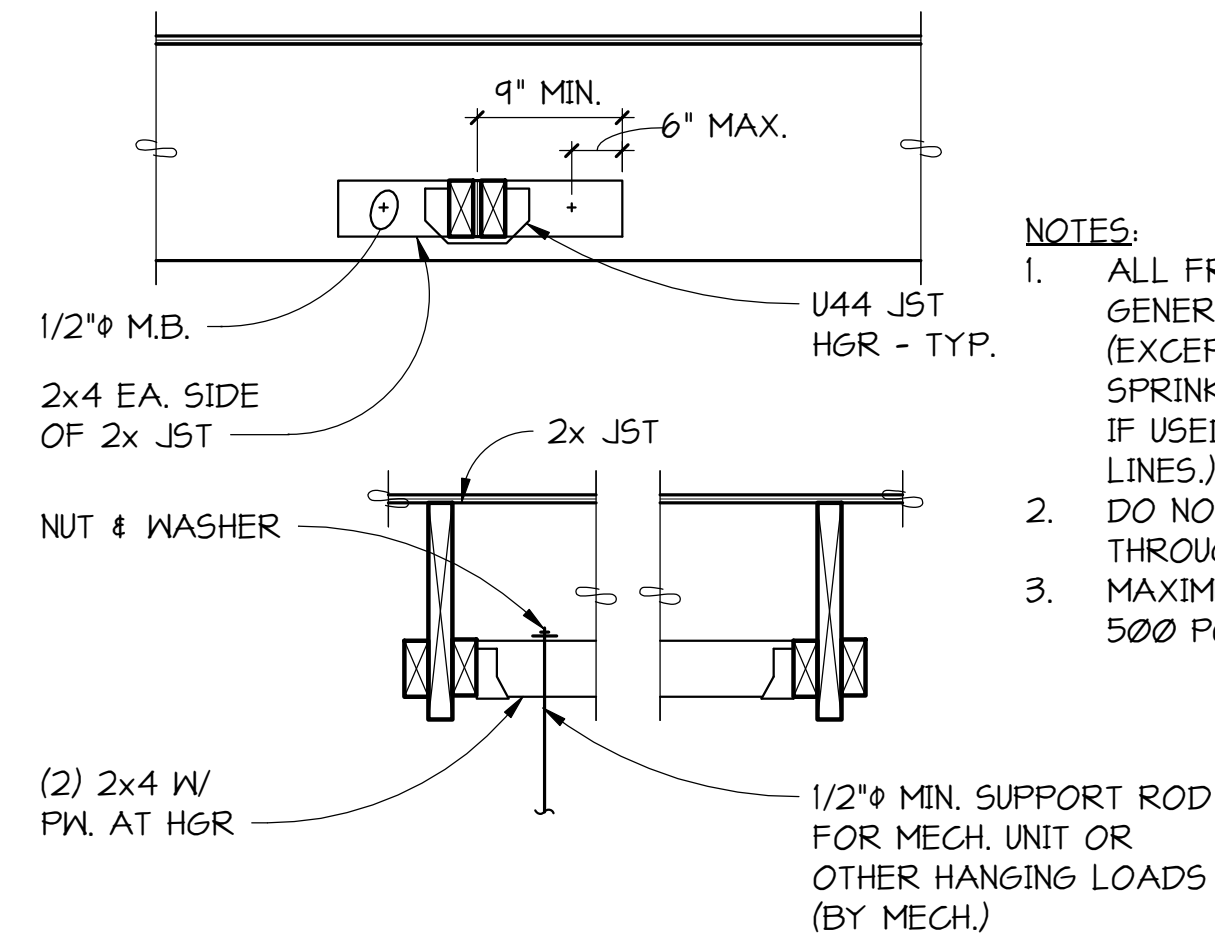
WALL FRAMING
 DETAILS

PROJECT # 22048
 DATE 12/27/2023

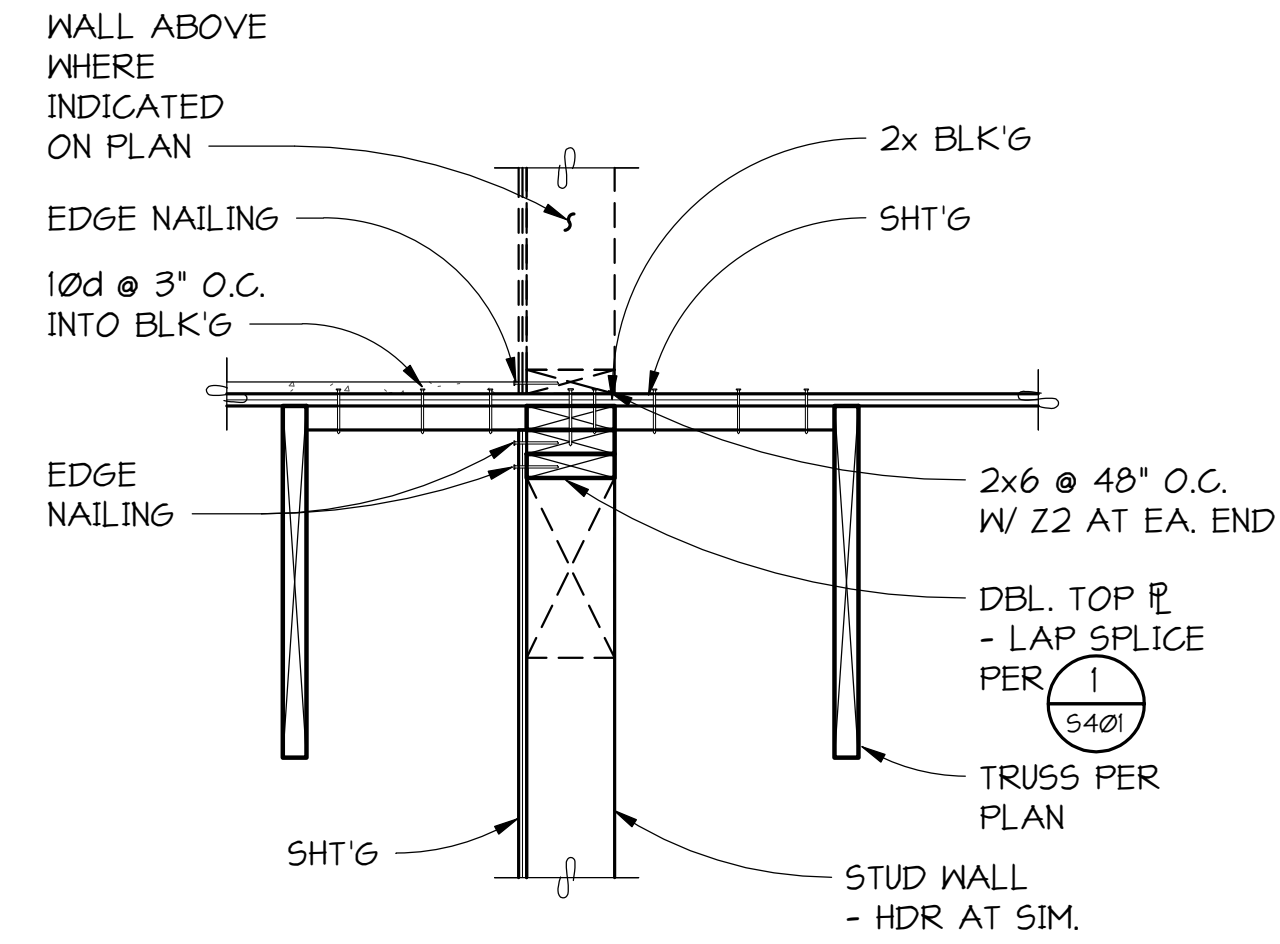
REV #	DATE	DESCRIPTION



TYPICAL SPRINKLER LINE ATTACHMENT FOR LINES 3" DIAMETER OR SMALLER

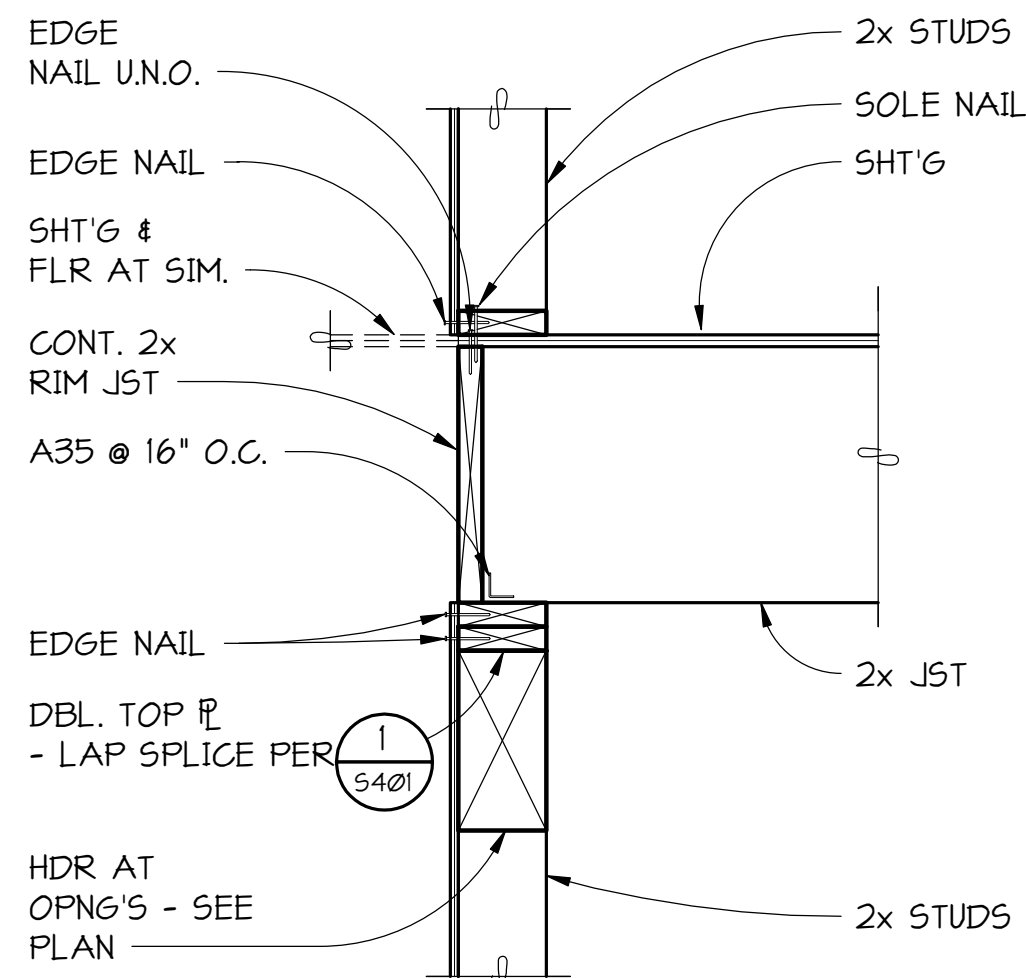


TYPICAL DETAIL FOR HANGING LOADS FROM 2x JOIST (ALL HEAT PUMPS, R FANS OR E FANS OVER 90 POUNDS)



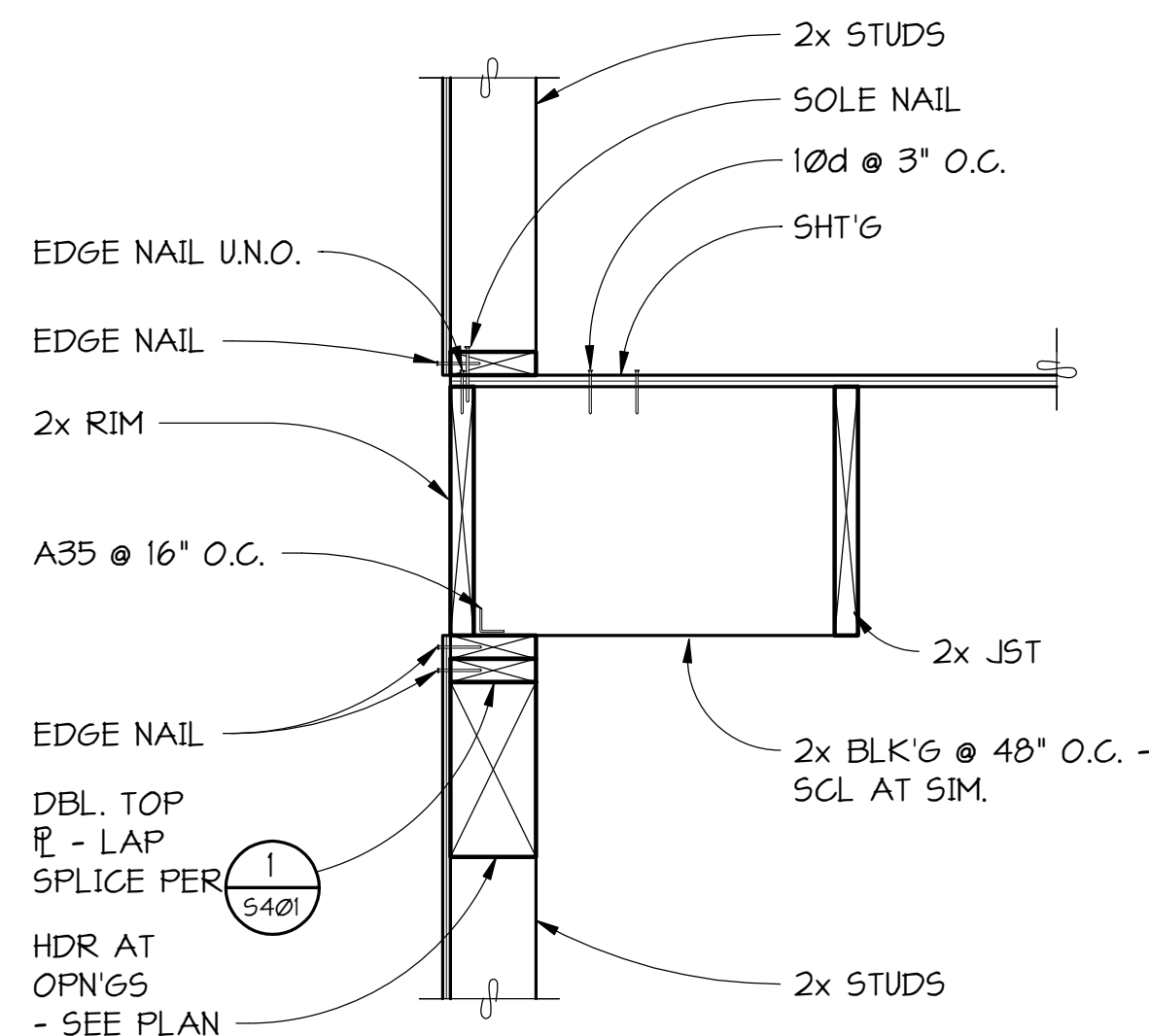
SECTION 3
5501 1" = 1'-0"

SECTION 1
5501 1" = 1'-0"



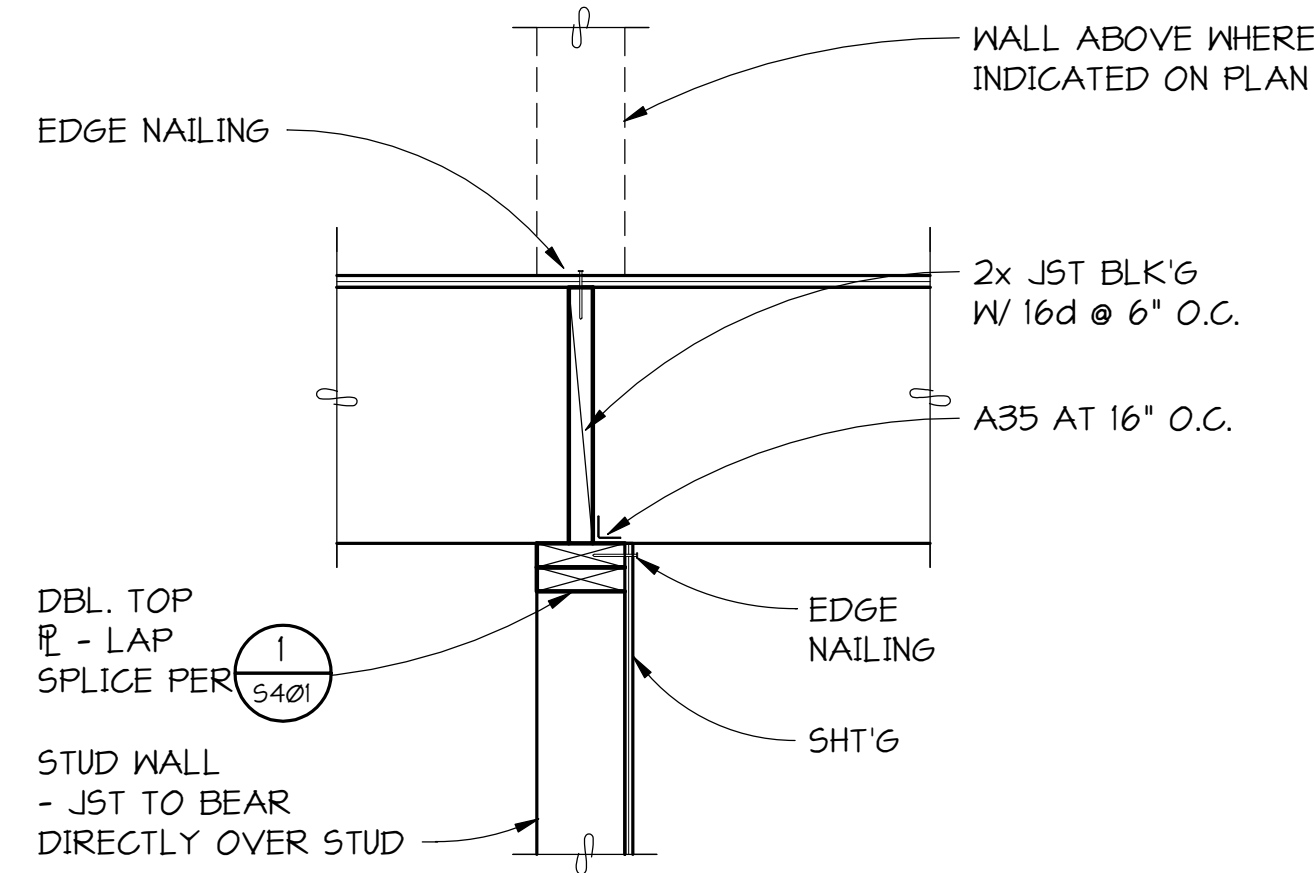
TYPICAL I-JOIST BEARING AT WALL

SECTION 4
5501 1" = 1'-0"



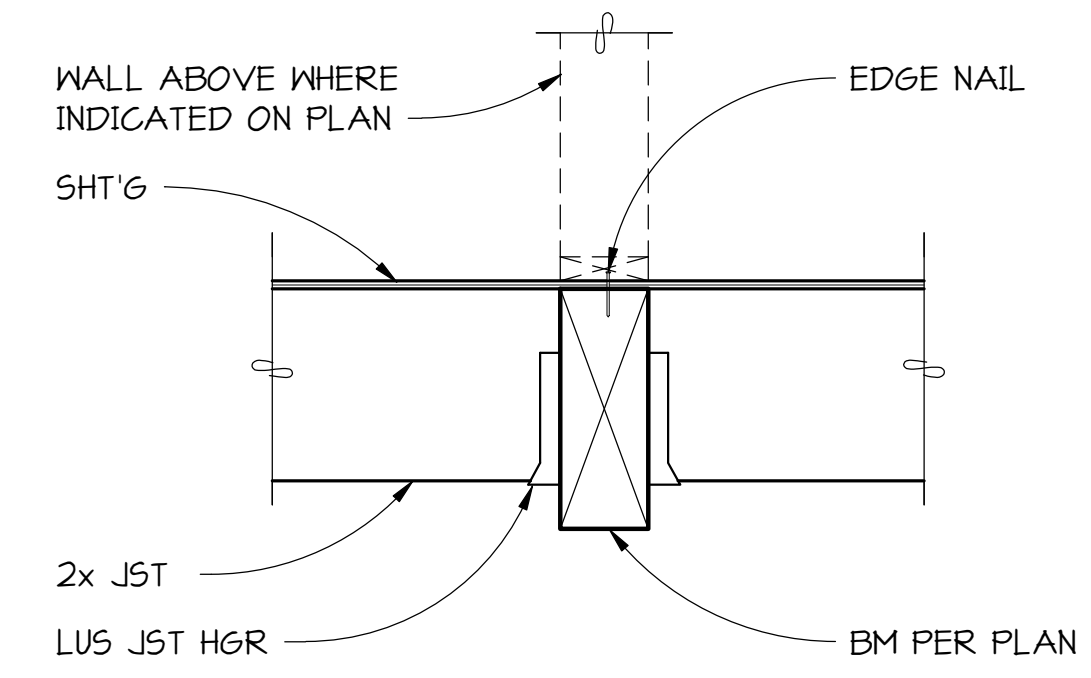
TYPICAL I-JOIST PARALLEL TO WALL

SECTION 5
5501 1" = 1'-0"



TYPICAL I-JOIST AT BEARING STUD WALL

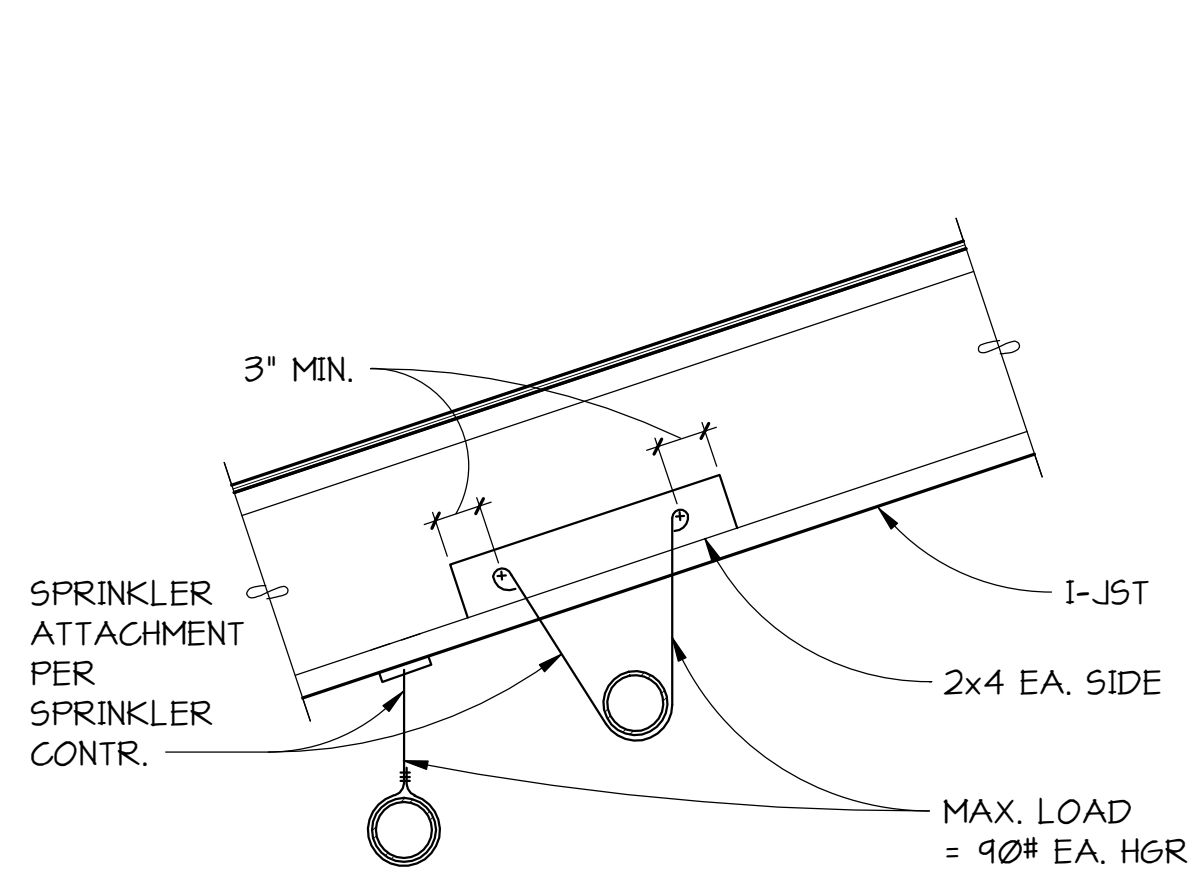
SECTION 6
5501 1" = 1'-0"



TYPICAL I-JOIST BEARING AT BEAM (EACH SIDE)

SECTION 7
5501 1" = 1'-0"

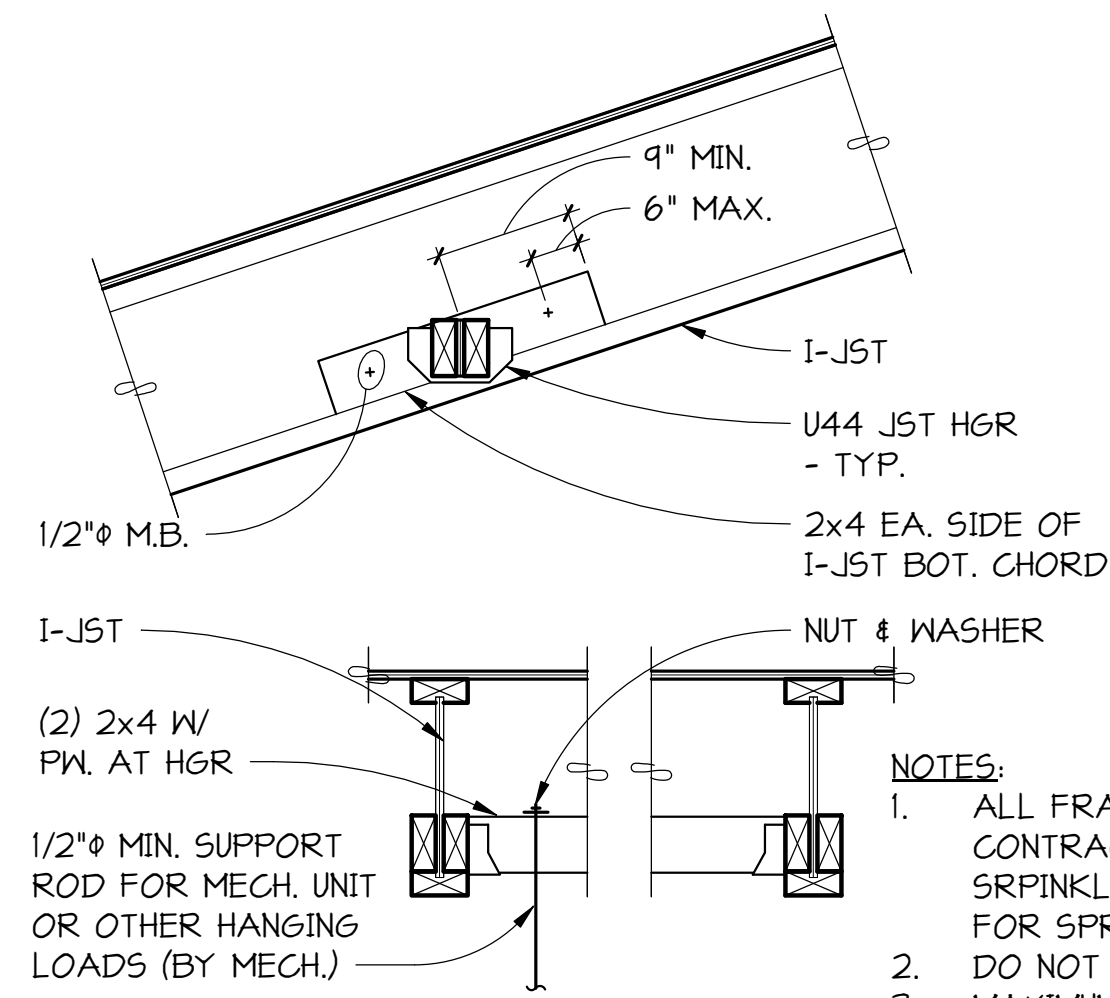
REV #	DATE	DESCRIPTION



NOTES:
FOR LINES GREATER THAN 3" DIAMETER HANG FROM GLULAM BEAMS OR STUD WALL OR HANG PER 2/5-601 OR SUPPORT OFF WALLS WHEN SPECIFICALLY APPROVED BY STRUCTURAL ENGINEER.

TYPICAL SPRINKLER LINE ATTACHMENT FOR LINES 3" OR SMALLER

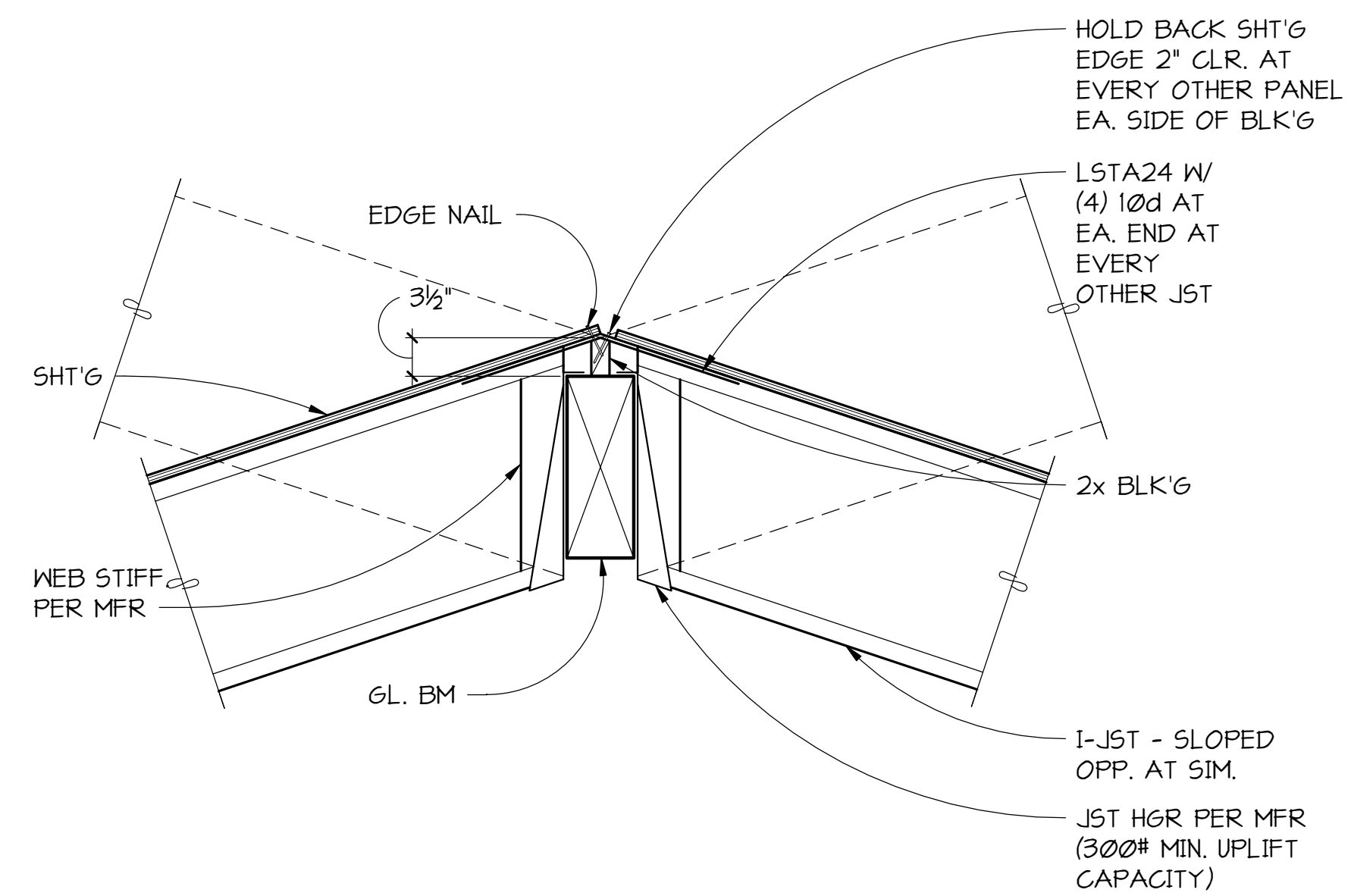
1 SECTION
S601 NO SCALE



NOTES:
1. ALL FRAMING SHOWN BY GENERAL CONTRACTOR (EXCEPT BY SRPINKLER CONTRACTOR IF USED FOR SPRINKLER LINES.)
2. DO NOT CUT OR DRILL THRU JOIST.
3. MAXIMUM SUPPORT LOAD 500 POUNDS.

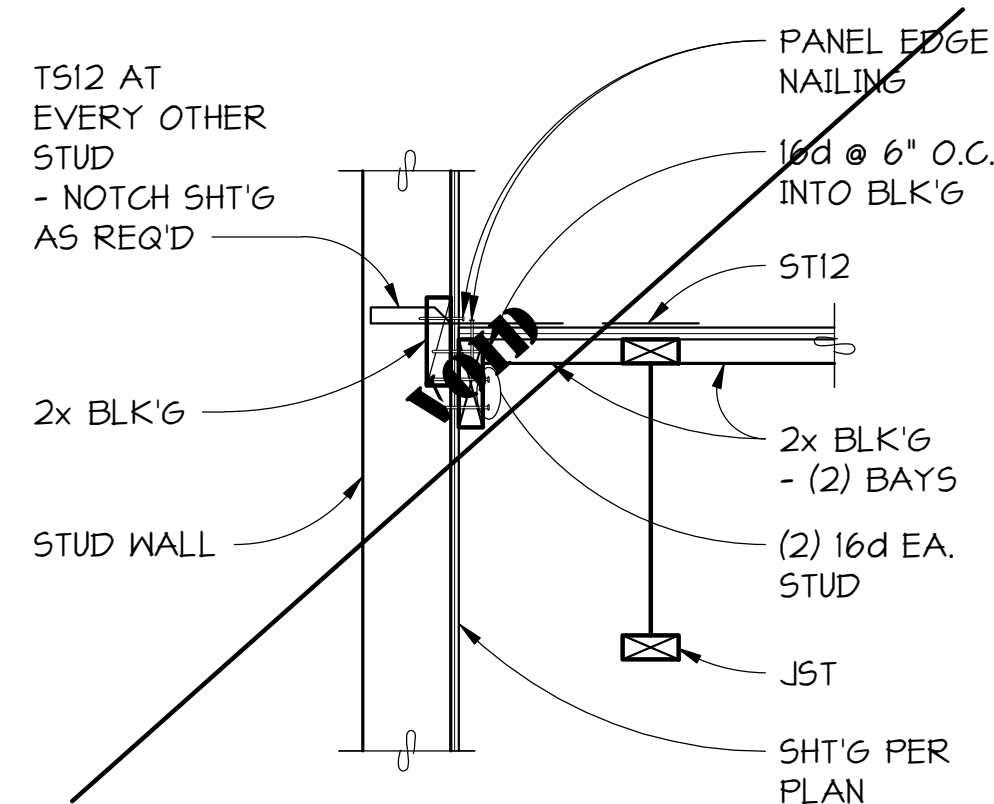
TYPICAL DETAIL FOR HANING LOADS FROM I-JOIST (ALL HEAT PUMPS, R FANS OR E FANS OVER 90 POUNDS)

2 SECTION
S601 NO SCALE

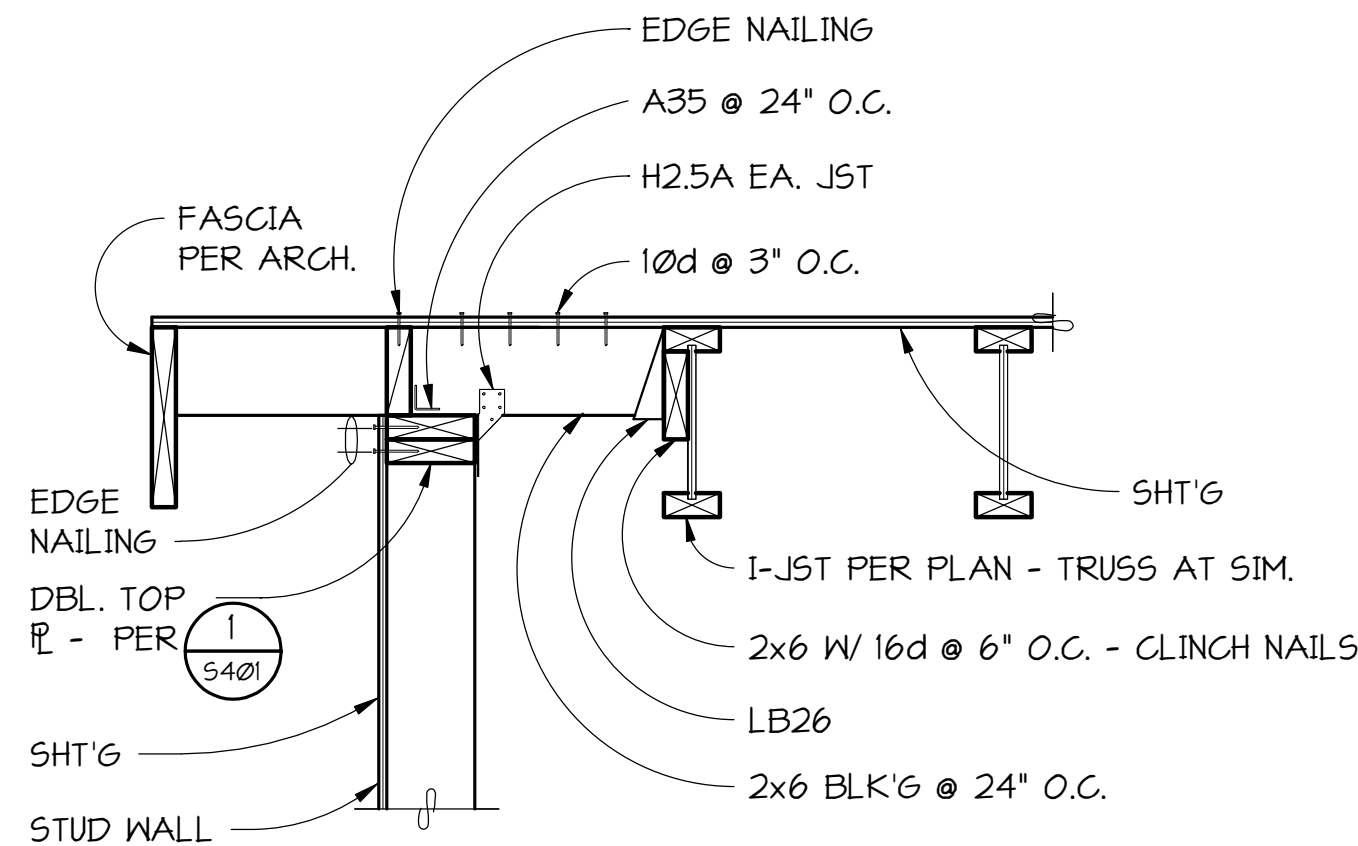


TYPICAL I-JOIST CONNECTION AT RIDGE BEAM

3 SECTION
S601 NO SCALE

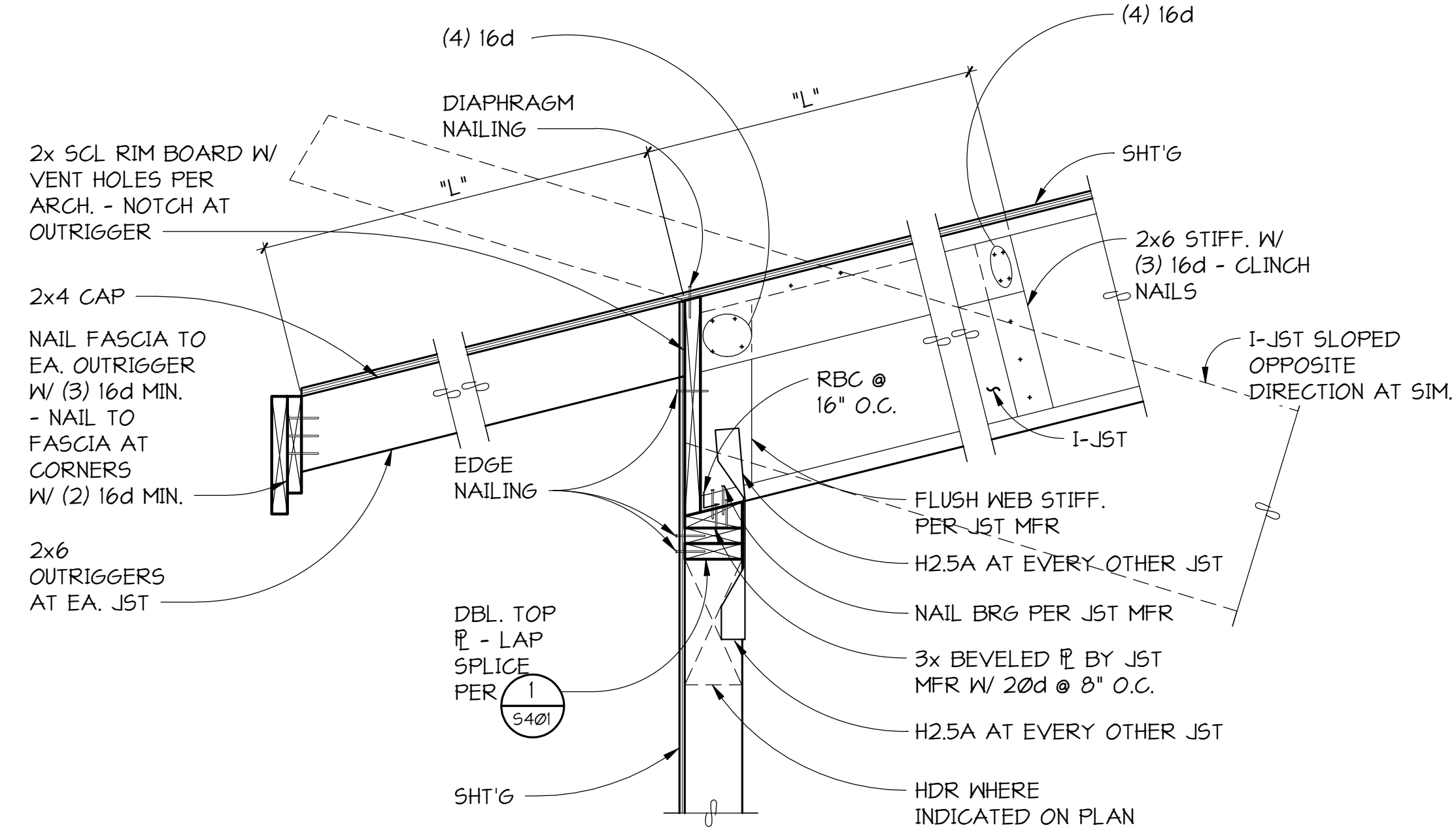


4 SECTION
S601 NO SCALE



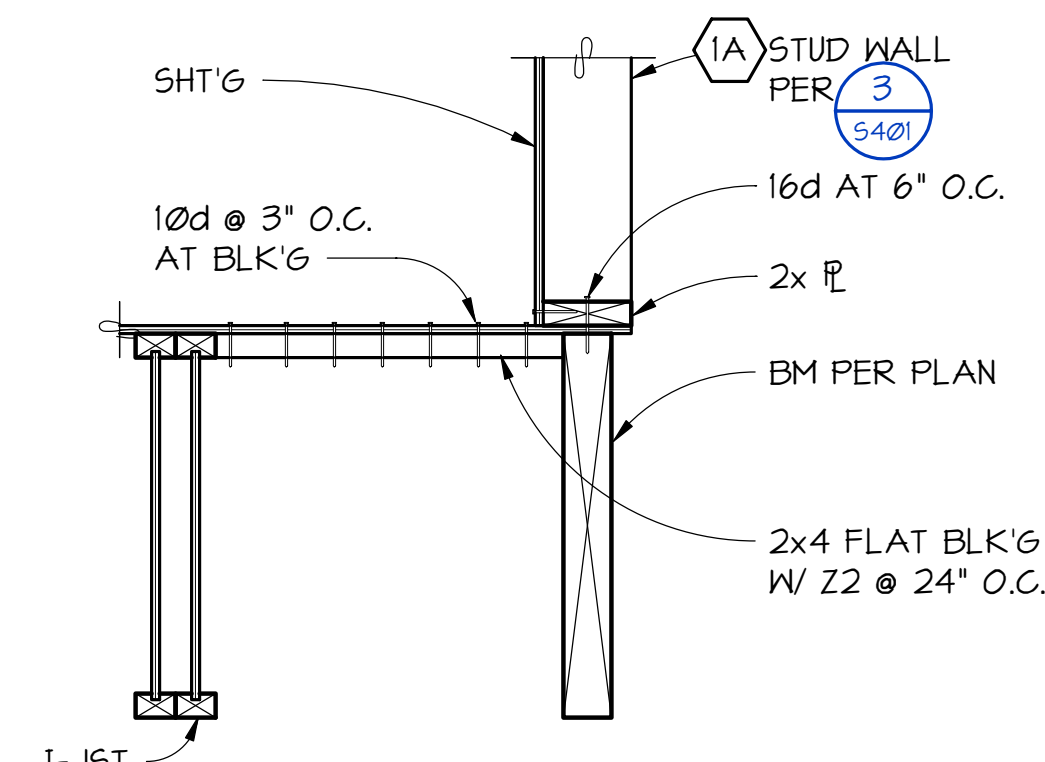
TYPICAL AT I-JOIST PARALLEL TO EXTERIOR WALL

5 SECTION
S601 NO SCALE



TYPICAL AT EXTERIOR WALL AT OUTRIGGERS

6 SECTION
S601 NO SCALE



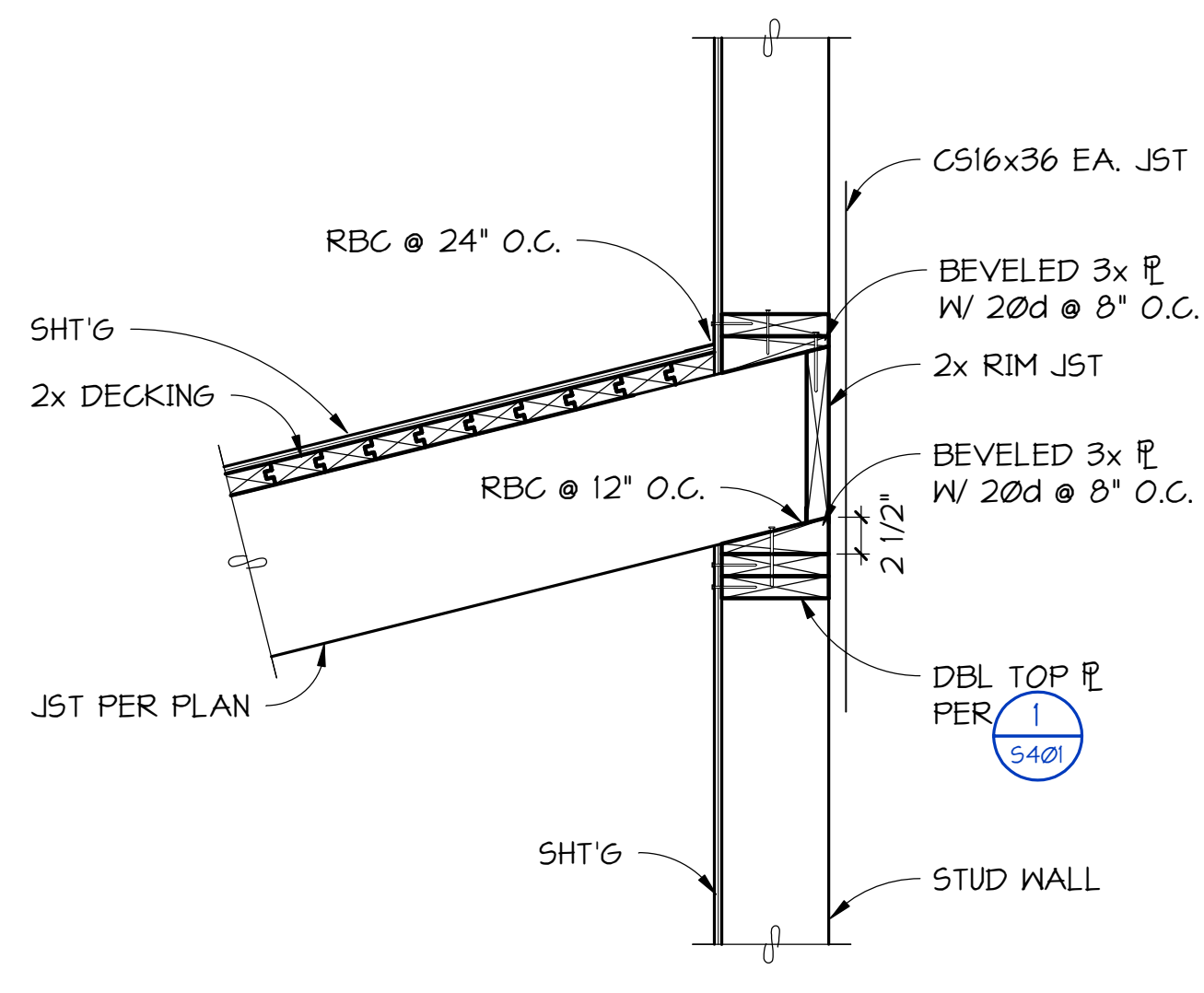
7 SECTION
S601 1" = 1'-0"

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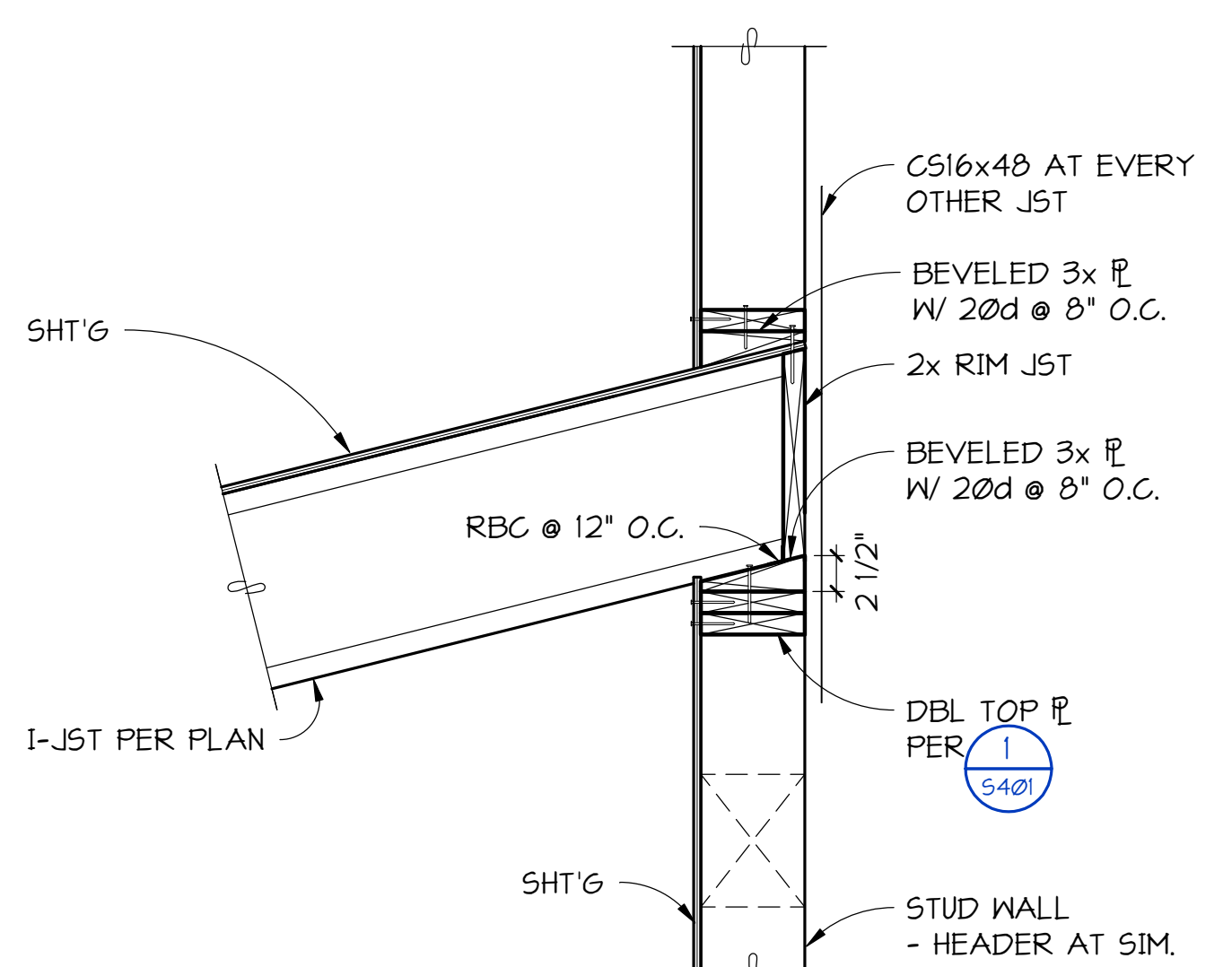
ROOF FRAMING
DETAILS

PROJECT # 22048
DATE 12/27/2023

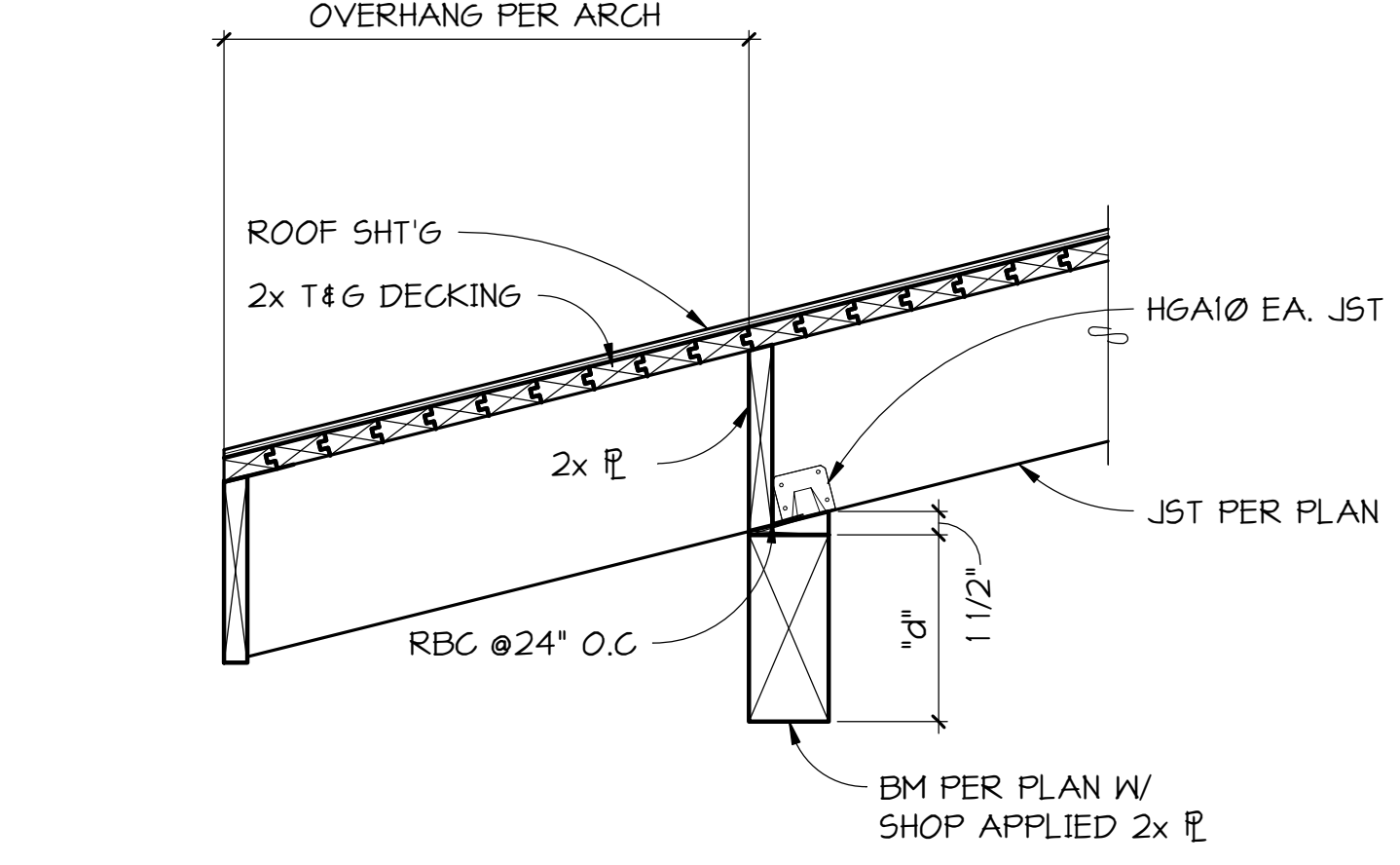
REV #	DATE	DESCRIPTION



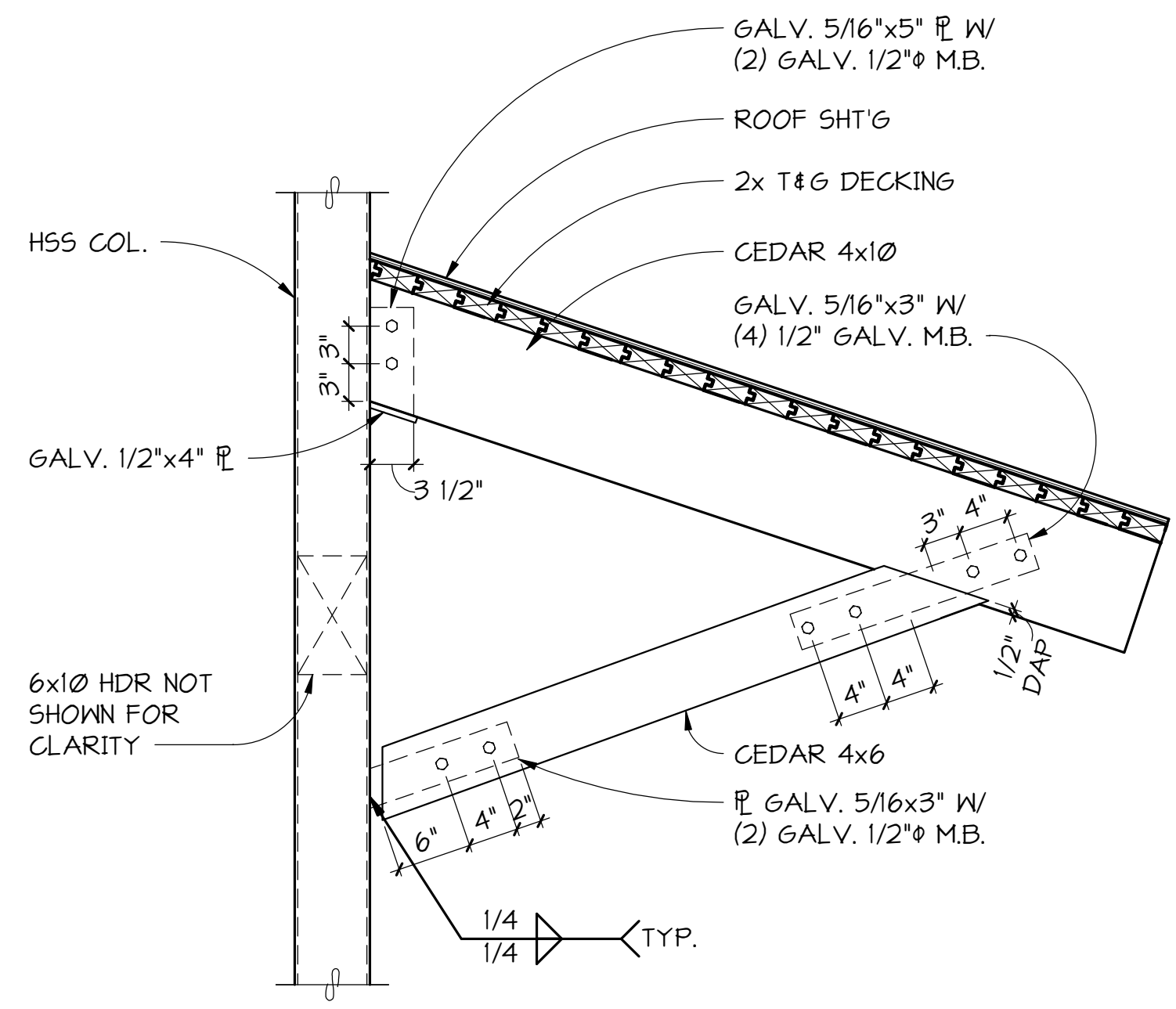
1 SECTION
5602 NO SCALE



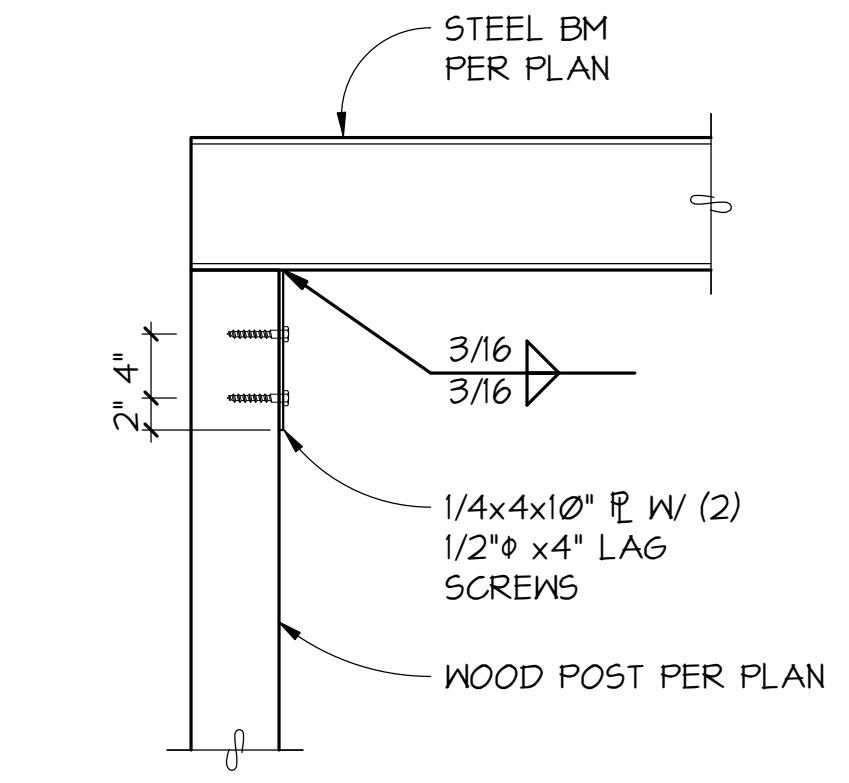
2 SECTION
5602 NO SCALE



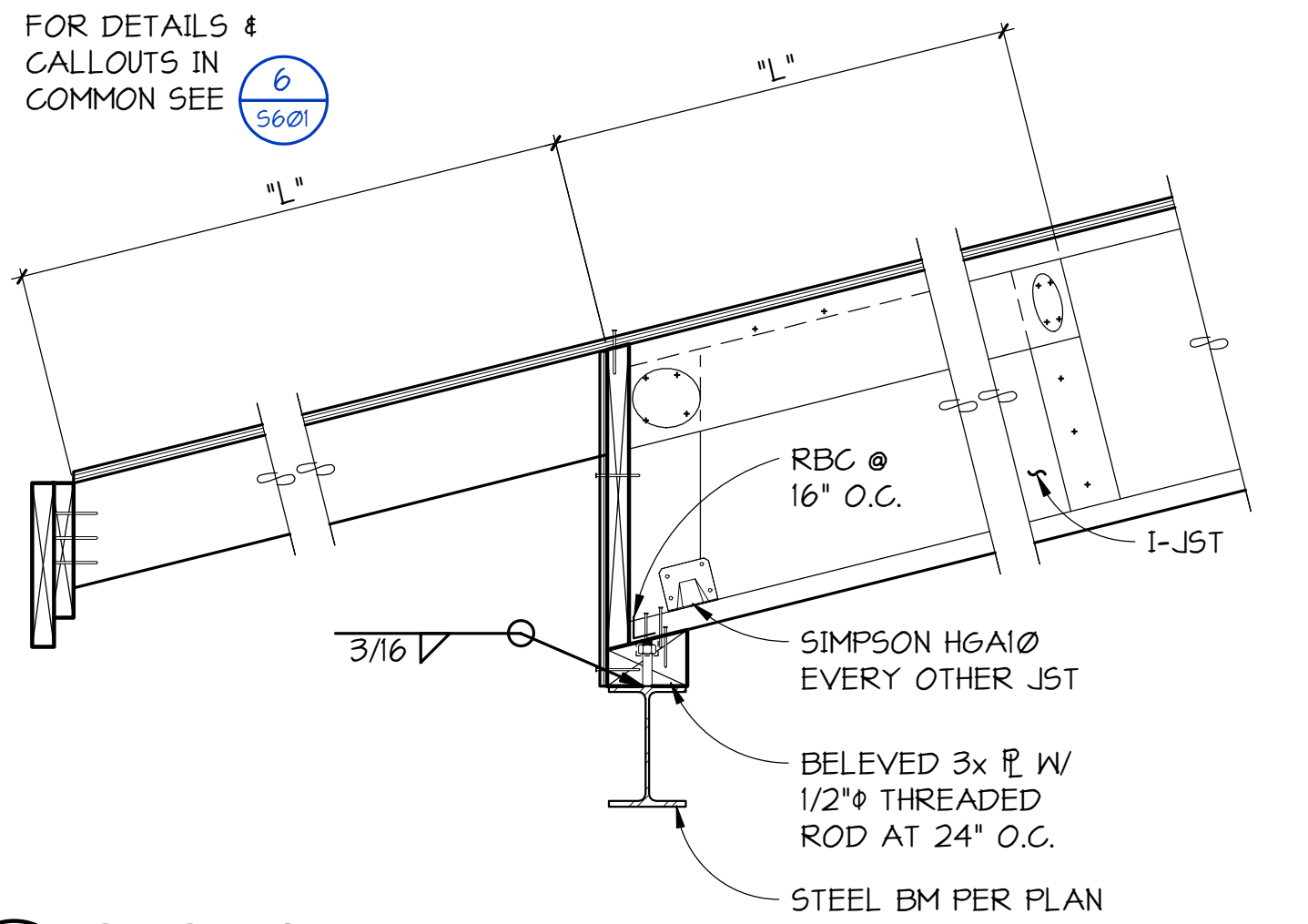
3 SECTION
5602 NO SCALE



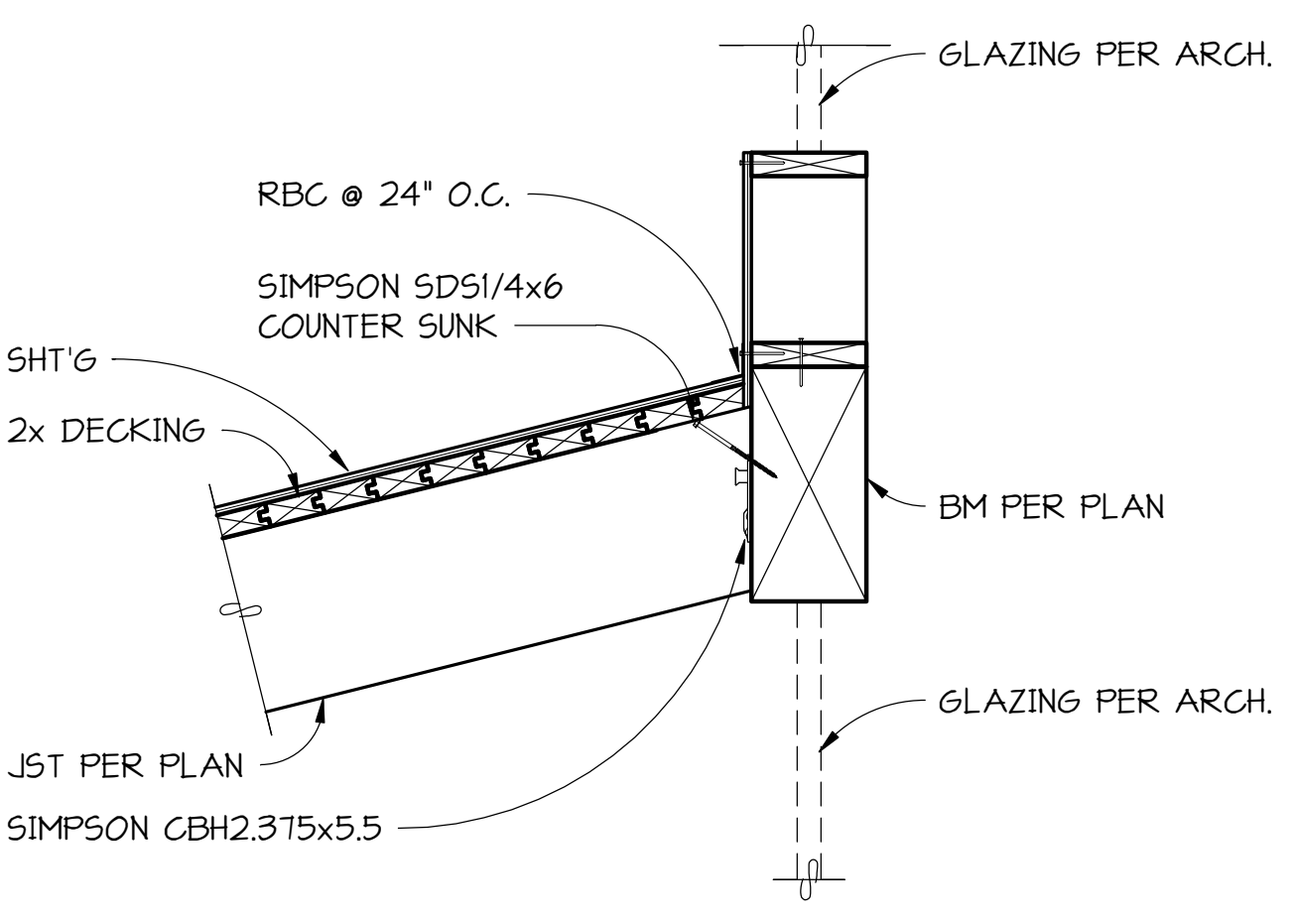
4 SECTION
5602 NO SCALE



5 SECTION
5602 NO SCALE



6 SECTION
5602 NO SCALE



7 SECTION
5602 NO SCALE

ROOF FRAMING
DETAILS

PROJECT # 22048
DATE 12/27/2023

REV #	DATE	DESCRIPTION

C:_Revit Models\23372 MOUNTAIN VIEW LIBRARY R24 (CENTRAL)_SOLEL51965.rvt 12/20/2023 8:53:52 AM

MECHANICAL SYMBOLS AND ABBREVIATIONS

SYMBOL	ABBREV.	DESCRIPTION
	W	SANITARY DRAIN (ABOVE GRADE DRAIN)
	W	SANITARY DRAIN (BELOW GRADE DRAIN)
	W	SANITARY DRAIN (PUMPED)
	SD	STORM DRAIN (ABOVE GRADE DRAIN)
	SD	STORM DRAIN (BELOW GRADE DRAIN)
	V	VENT
	CW	COLD WATER
	HW	HOT WATER
	HWR	HOT WATER RETURN
	G	NATURAL GAS
	F	FIRE PROTECTION
	S	STEAM (15 PSIG)
	C	CONDENSATE RETURN
	PC	CONDENSATE RETURN (PUMPED)
	HWS	HEATING WATER SUPPLY (LOW TEMP)
	HWR	HEATING WATER RETURN
	RL	REFRIGERANT LIQUID LINE
	RS	REFRIGERANT SUCTION LINE
	CHS	CHILLED WATER SUPPLY
	CHR	CHILLED WATER RETURN
	CWS	CONDENSING WATER SUPPLY
	CWR	CONDENSING WATER RETURN
	D	DRAIN (INDIRECT)
		TRIPLE DUTY VALVE
		BALL VALVE
		BUTTERFLY VALVE
		CHECK, SWING VALVE
		CHECK, SPRING VALVE
		BALANCING VALVE
		FLOW CONTROL VALVE
		FLOAT VALVE
		GATE VALVE
		GATE ANGLE VALVE
		GLOBE ANGLE VALVE
		PLUG VALVE
		SAFETY RELIEF VALVE
		GLOBE VALVE
		PRESSURE REDUCING VALVE
		SOLENOID VALVE
		2-WAY CONTROL VALVE
		3-WAY CONTROL VALVE
		HOSE BIB
	FD	FLOOR DRAIN
	FS	FLOOR SINK
	WCO	WALL CLEAN OUT
	CB	CATCH BASIN
		WALL HYDRANT / HOSE BIB
		FIRE DEPARTMENT CONNECTION
		FIRE HYDRANT
		WATER HAMMER ARRESTOR
	BFP	BACKFLOW PREVENTER, DOUBLE CHECK
	RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
		CAP
		UNION
		EXPANSION JOINT
		FLEXIBLE JOINT
		CONCENTRIC REDUCER
		ECCENTRIC REDUCER STRAIGHT INVERT
		ECCENTRIC REDUCER STRAIGHT CROWN
		STRAINERS/FILTERS Y-PATTERN W/ PLUG
		STRAINERS/FILTERS Y-PATTERN W/ BLOWOFF
		ANCHOR
		GUIDE
	AAV	AUTOMATIC AIR VENT
		PET'S PLUG
	MAV	MANUAL AIR VENT
		RISE
		TEE
		TEE, OUTLET UP
		TEE, OUTLET DOWN
		ELBOW
		ELBOW, OUTLET UP
		ELBOW, OUTLET DOWN
	/	AND/OR
	⌒	CENTER LINE
	∅	DIAMETER/PHASE
	#	NUMBER/POUNDS
	AD	ACCESS DOOR
	AF	AIR FOIL (FAN)
	AFF	ABOVE FINISHED FLOOR

MECHANICAL SYMBOLS AND ABBREVIATIONS

SYMBOL	ABBREV.	DESCRIPTION
	SA	SUPPLY DUCT TURN UP
	SA	SUPPLY DUCT TURN DOWN
	RA	RETURN AIR
	EXH	EXHAUST
	OSA	OUTSIDE AIR
	FSD	FIRE SMOKE DAMPER
	FD	FIRE DAMPER
	MVD	MANUAL VOLUME DAMPER
		MOTORIZED DAMPER
		BACKDRAFT DAMPER
		TEMPERATURE SENSOR
		WALL MOUNTED THERMOSTAT
		CEILING MOUNTED THERMOSTAT
		ACOUSTICAL LINER
		FLEXIBLE DUCT
		EQUIPMENT CONNECTION
		DUCT PRESSURE CLASS SYMBOL
		SUPPLY DIFFUSER/GRILLE
		RETURN DIFFUSER/GRILLE
		EXHAUST DIFFUSER/GRILLE
		LINEAR SLOT DIFFUSER
		SIDEWALL DIFFUSER/GRILLE
		DETAIL/SECTION NUMBER
		DETAIL/SECTION SYMBOL
		DRAWING WHERE DETAIL/SECTION APPEARS
		POINT OF CONNECTION TO (E)
		NEW EQUIPMENT IDENTIFICATION
		NEW EQUIPMENT MARK
		NEW EQUIPMENT NUMBER
		EXISTING EQUIPMENT IDENTIFICATION
		EXISTING EQUIPMENT MARK
		EXISTING EQUIPMENT NUMBER
		NECK SIZE (IN)
		DIFFUSER/GRILLE MARK
		CFM
	APD	AIR PRESSURE DROP
	AVG	AVERAGE
	BHP	BRAKE HORSEPOWER
	BI	BACKWARD INCLINED (FAN)
	BLDG	BUILDING
	BOD	BOTTOM OF DUCT
	BOP	BOTTOM OF PIPE
	BTU	BRITISH THERMAL UNIT
	BTUH	BTU PER HOUR
	CFM	CUBIC FEET PER MINUTE
	CI	CAST IRON
	CO	CLEAN OUT
	COTG	CLEAN OUT TO GRADE
	CONC	CONCRETE
	COND	CONDENS - (ER, ING, ATE)
	CONT	CONTINU - (E, ED, OUS, ATION)
	CU FT	CUBIC FEET
	dB	DECIBEL
	DB	DRY BULB
	DEG	DEGREE
	DIA	DIAMETER
	DN	DOWN
	DS	DOWNSPOUT
	EA	EACH
	EAT	ENTERING AIR TEMPERATURE
	EFF	EFFICIENCY
	ELEV	ELEVATION
	ELEC	ELECTRIC(AL)
	ENT	ENTERING
	EQUIP	EQUIPMENT
	ESP	EXTERNAL STATIC PRESSURE
	EWT	ENTERING WATER TEMPERATURE
	EXH	EXHAUST (AIR)
	EXIST	EXISTING
	F	FAHRENHEIT

MECHANICAL ABBREVIATIONS

ABBREV.	DESCRIPTION
FC	FORWARD CURVED (FAN)
FCO	FLOOR CLEAN OUT
FF	FINISHED FLOOR
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FA	FREE AREA
FT	FOOT OR FEET
GA	GAUGE
GAL	GALLON(S)
GALV	GALVANIZED
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HD	HEAD / HUB DRAIN
HG	MERCURY
HOA	HAND OFF AUTO
HP	HEAT PUMP / HORSEPOWER
HR	HOUR
HTG	HEATING
HZ	HERTZ (FREQUENCY)
IE	INVERT ELEVATION
IN	INCH(ES)
KW	KILOWATT
KWH	KILOWATT-HOUR
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LVG	LEAVING
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	BTU PER HOUR (THOUSANDS)
MECH	MECHANICAL
MIN	MINIMUM
N/A	NOT APPLICABLE
NC	NOISE CRITERIA / NORMALLY CLOSED
NIC	NOT IN CONTRACT
NIM	NOT IN MECHANICAL
NTS	NOT TO SCALE
OBD	OPPOSED BLADE DAMPER
OD	OUTSIDE DIAMETER / OVERFLOW DRAIN
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OSA	OUTSIDE AIR
PD	PRESSURE DROP/ DIFFERENCE
PH	PHASE
PPM	PARTS PER MILLION
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIA	PSI, ABSOLUTE
PSIG	PSI, GAUGE
P&T	PRESSURE & TEMPERATURE RELIEF VALVE
(R)	RELOCATE(D)
R	RADIUS
RA	RETURN (AIR)
RD	ROOF DRAIN
RECIRC	RECIRCULAT - (E, ING, OR)
REQ	REQUIRED
RH	RELATIVE HUMIDITY
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY (AIR)
SAT	SATURATION
SCFM	CFM, STANDARD CONDITIONS
SD	SMOKE DAMPER / STORM DRAIN
SEC	SECOND
SF	SQUARE FEET
SP	STATIC PRESSURE
SPEC	SPECIFICATION(S)
SQ FT	SQUARE FEET
SS	STAINLESS STEEL
STD	STANDARD
STRUCT	STRUCTURAL
SYS	SYSTEM
TEMP	TEMPERATURE
TONS	TONS OF REFRIGERATION
TSP	TOTAL STATIC PRESSURE
TSTAT	THERMOSTAT
TYP	TYPICAL
VD	VOLUME DAMPER
VEL	VELOCITY
VENT	VENTILATION
VFD	VARIABLE FREQUENCY DRIVE
VOL	VOLUME
VTR	VENT THROUGH ROOF
W	WITH
W	WASTE/WATT
WB	WET BULB
WPD	WATER PRESSURE DROP
WT	WEIGHT
ZD	ZONE DAMPER

DRAWING INDEX

SHEET NUMBER	SHEET NAME
MT01	MECHANICAL TITLE SHEET
P101	PLUMBING SCHEDULES
P201	PLUMBING PLAN - BELOW SLAB
P202	PLUMBING - MAIN LEVEL
P800	PLUMBING DETAILS
M100	MECHANICAL SCHEDULES
M202	MECHANICAL - MAIN LEVEL
M203	MECHANICAL LEVEL
M211	MECHANICAL ROOF PLAN
M601	MECHANICAL SECTIONS
M800	MECHANICAL DETAILS



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MECHANICAL TITLE SHEET

PROJECT # 22048
DATE 12/27/2023

REV #	DATE	DESCRIPTION



12/27/2023

6915 SW Macadam Ave.
Suite #200
Portland, Oregon, 97219
Phone: (503) 892-1188
Fax: (503) 892-1190
Contact: Kori Hansen
Since 1979



NOTE:
NOT ALL SYMBOLS AND ABBREVIATIONS MAY BE USED.

MT01

BID SET



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PLUMBING SCHEDULES

PROJECT # 22048
DATE 12/27/2023

REV #	DATE	DESCRIPTION

P101
BID SET

PLUMBING CONNECTION SCHEDULE										
SYMBOL MARK	FIXTURE TYPE	DESCRIPTION	MANUFACTURER (NOTE 1)	MODEL (NOTE 1)	TRIM / FITTINGS	W	V	CW	HW	COMMENTS
WC-1	WATER CLOSET	FLUSH VALVE, FLOOR MOUNT, ADA	AMERICAN STANDARD	3461.001 "MADERA"	FLUSH VALVE: SLOAN ROYAL #111, 1.28 GPF SEAT: OLSONITE #95 - SOLID WHITE PLASTIC, OPEN FRONT, WITHOUT COVER	3	2	1	-	
LV-1	LAVATORY	WALL HUNG, RECTANGULAR	AMERICAN STANDARD	0355.012 "LUCERNE"	TRIM: DELTA MODEL 523LF-HDF (OR EQUIVALENT BY SYMMONS, MOEN OR CHICAGO), SINGLE HANDLE, 4" CENTER SET, 0.5 GPM CARRIER: ASME A112.6.1, CAST IRON AND STEEL FRAME WITH TUBULAR LEGS, CONCEALED ARM SUPPORT MIXING VALVE: SYMMONS 7-210-CK, THERMOSTATIC, ASSE 1070 (OR EQUIVALENT BY DELTA, ACORN, SLOAN OR SPEAKMAN) LAVATORY INSULATION KIT: TRUEBRO LAVGUARD 2 ACCESSORIES: CHROME PLATED BRASS OPEN GRID DRAIN, TAILPIECE, P-TRAP AND ANGLE STOPS. RIGID SUPPLIES	1 1/2	1 1/4	1/2	1/2	
MS-1	MOP SINK	CORNER MOUNT	STERN-WILLIAMS	SBC-1700 "CORLOW"	TRIM: CAMBRIDGE/DELTA MODEL 28T9 (OR EQUIVALENT BY MOEN, CHICAGO OR SPEAKMAN), EXPOSED WITH CROSS HANDLES ACCESSORIES: VACUUM BREAKER, HOSE END SPOUT, INTEGRAL SCREWDRIVER STOPS, 5 FEET OF RUBBER HOSE WITH HOSE CLAMP HANGER AND MOP HANGER	3	2	1/2	1/2	
DF-1	DRINKING FOUNTAIN	WALL MOUNTED, DUAL HEIGHT, ADA, WITH BOTTLE FILLER	HAWES	MODEL 1119, 1920	CABINET: 18 GA. THICK, TYPE 304 STAINLESS STEEL WITH NO. 4 SATIN FINISH TRIM: MOUNTING PLATE HAWES 6700.4 AND MOUNTING BOLTS BOTTLE FILLER: VANDAL RESISTANT, TYPE 304 STAINLESS STEEL, WITH MOUNTING PLATE AND DRIP TRAY	1 1/2	1 1/4	1/2	-	
H-1	WALL HYDRANT	RECESSED BOX TYPE, FREEZE PROOF	WOODFORD	MODEL B67C	PROVIDE WITH INTEGRAL BACKFLOW PREVENTER	-	-	3/4	-	
FD-1	FLOOR DRAIN	FINISHED FLOOR	JAY R. SMITH	2005-A / 2005-B	ADJUSTABLE NICKEL BRONZE STRAINER TRAP PRIMER CONNECTION (PROVIDE TRAP PRIMER)	2	2	-	-	
CO-1	CLEANOUT	EXTERIOR, TO GRADE	JAY R. SMITH	4250	ROUND CAST NICKEL BRONZE ACCESS FRAME AND NON-SKID COVER	-	-	-	-	
CO-2	CLEANOUT	INTERIOR, TO FINISHED FLOOR	JAY R. SMITH	4000 SERIES	PROVIDE WITH ROUND GASKETED SCORED COVER IN SERVICE AREAS PROVIDE WITH ROUND GASKETED DEPRESSED COVER TO ACCEPT FLOOR FINISH IN FINISHED FLOOR AREAS	-	-	-	-	
CO-3	CLEANOUT	WALL TYPE	JAY R. SMITH	4000 SERIES	LAQUERED CAST IRON BODY AND ROUND EPOXY COATED GASKETED COVER STAINLESS STEEL ACCESS COVER SECURED WITH MACHINE SCREW	-	-	-	-	

NOTES:
1 EQUIVALENT MODELS BY ALTERNATE MANUFACTURERS ARE ALSO ACCEPTABLE. APPROVED MANUFACTURERS: AMERICAN STANDARD, KOHLER, TOTO, JUST, ELKAY, MOEN, FIBER-FAB, AQUAGLASS, LASCO, ELJER, STERN-WILLIAMS, HAWS, JAY R. SMITH, MIFAB, SIOUX CHIEF AND ZURN.

BRANCH PIPE SIZING CHART			
WATER PIPE SIZE	MAX SUPPLY FIXTURE UNITS PER 2021 WPC - NO FLUSH VALVES	MAX SUPPLY FIXTURE UNITS PER 2021 WPC - WITH FLUSH VALVES	MAX GPM
1/2"	2	-	2
3/4"	7.5	-	6
1"	15	-	12
1-1/4"	33	6	22
1-1/2"	55	15	32
2"	220	110	65

SIZING PER 2021 UPC APPENDIX A TABLE 103.1, CHARTS 103.1(1), 103.1(2), AND 105.1(1) AND THE BUILDING SUPPLY PRESSURE OF 60 PSIG AND PIPING MATERIALS OF TYPE L COPPER AND SMOOTH PIPE. A MAXIMUM PRESSURE DROP OF 4.0 PSI PER 100FT. A MAX VELOCITY OF 7FT/SEC.

ELECTRIC WATER HEATER											
SYMBOL MARK	DESCRIPTION	SERVICE	INPUT (KW)	VOLTAGE	PH.	UEF	FLA	STORAGE CAPACITY (GAL)	RECOVERY RATE AT 100° F (GPH)	WEIGHT (LBS)	COMMENTS
WH-1	TANK TYPE, LOW BOY	REST ROOMS, MOP SINK	4.5	120	1	0.94		28	21	335	1,2

NOTES:
1. DESIGN BASIS: AO SMITH ENJB-30
2. UNIT TO BE MOUNTED ON WALL HUNG PLATFORM.

WASTE SERVICE CALCULATION						
FIXTURE	PUBLIC USE		ASSEMBLY		TOTAL DFU	COMMENTS
	QUANTITY	FIXTURE UNITS (DFU)	QUANTITY	FIXTURE UNITS (DFU)		
WATER CLOSET (FLUSH VALVE)		4		6	0	
WATER CLOSET (FLUSH TANK)	2	4		6	8	
FLOOR DRAIN	2	2		2	4	
LAVATORY	2	1		1	2	
MOP SINK	1	3		3	3	
TOTAL DRAINAGE FIXTURE UNITS					17	
PIPE SLOPE (%)	1					
MAIN SIZE (IN)	4					

NOTES:
1. SIZED PER 2021 WPC TABLE 703.2
2. TOTAL DFU LOAD ALLOWED ON 4"W AT 1% SLOPE = 173.

WATER SERVICE CALCULATION							
FIXTURE	PUBLIC USE		ASSEMBLY		TOTAL WSFU	HOT WATER 0.75	COMMENTS
	QUANTITY	FIXTURE UNITS (WSFU)	QUANTITY	FIXTURE UNITS (WSFU)			
WATER CLOSET (FLUSH VALVE)	2	5		8	10	0	
HOSE BIBB	2	1		1	3.5	0	
LAVATORY	2	1		1	2	1.5	
MOP SINK	1	3		3	3	2.25	
TOTAL WSFU					18.5	3.75	
TOTAL GPM					35		

PRESSURE CALCULATIONS:	DISTANCE (FT)	PRESSURE (PSIG)	COMMENTS
A. MINIMUM STATIC WATER PRESSURE AT...	-	55	1
B. PRESSURE LOSS AT METER	-	10	
C. PRESSURE LOSS AT BACKFLOW PREVENTER	-	5	
D. PIPE DISTANCE FROM STREET TO RISER	150	-	2
E. FRICTION LOSS IN PIPING (4"/100' X .434 X D = PSIG)	-	4	3
F. ELEVATION PRESSURE LOSS FROM STREET TO RISER	1	0	4
G. PRESSURE AT RISER (A - B - C - E - F.)	-	36	
H. PIPE LENGTH FROM RISER TO REMOTE FIXTURE	18	-	3
I. FRICTION LOSS IN PIPING (4"/100' X .434 X H = PSIG)	-	0	3
J. ELEVATION PRESSURE LOSS FROM RISER TO REMOTE FIXTURE	-	0	4
K. PRESSURE AVAILABLE AT REMOTE FIXTURE (G - I - J.)	-	35	
L. MINIMUM PRESSURE AT REMOTE FIXTURE	-	40	

SERVICE SIZE (INCHES) = 2

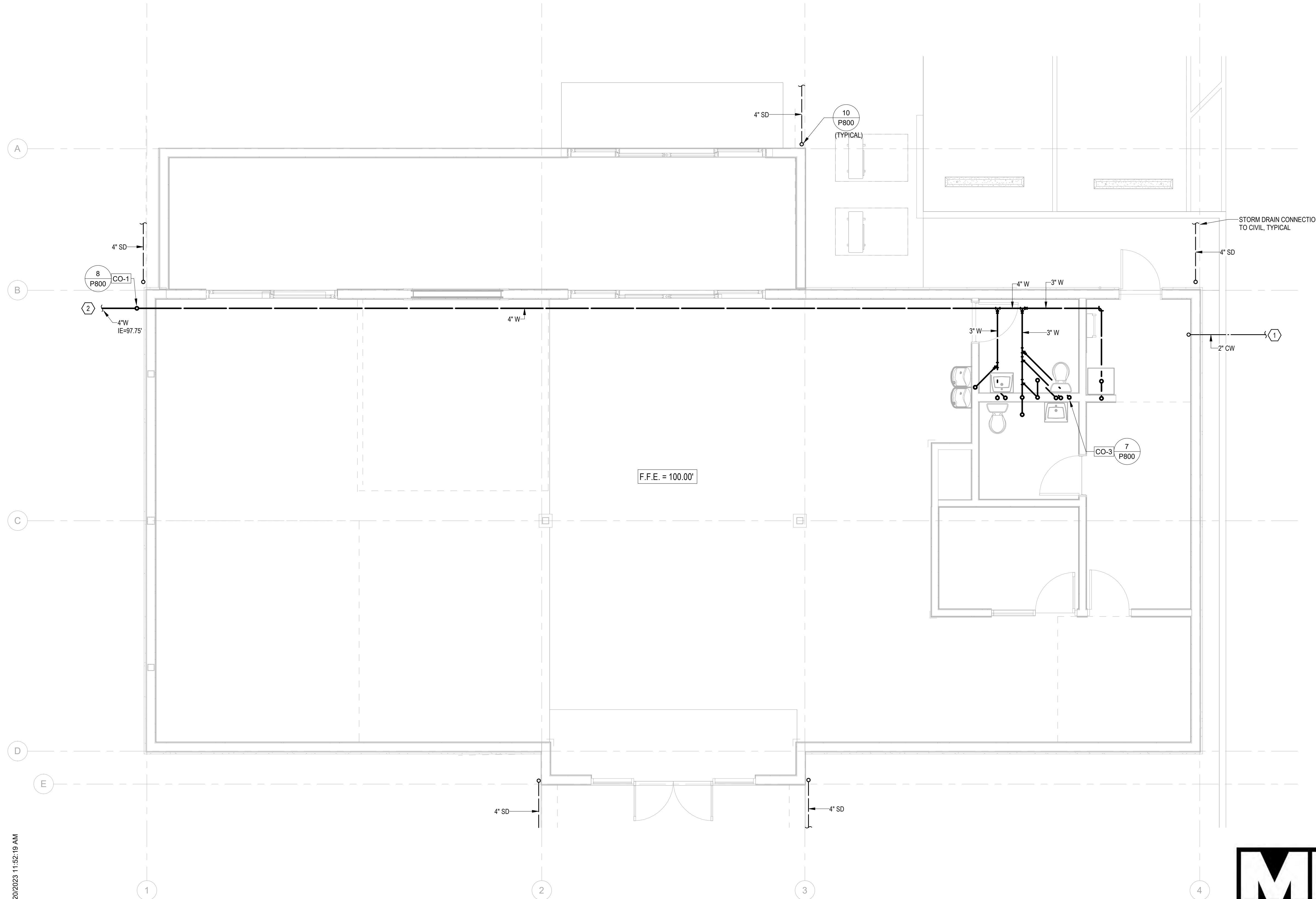
NOTES:
1 ASSUMED SITE WATER PRESSURE AT STREET LEVEL. PLUMBING CONTRACTOR TO VERIFY AND NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO START OF WORK.
2 ASSUMED PIPE DISTANCE FROM THE STREET. PLUMBING CONTRACTOR TO VERIFY AND NOTIFY ENGINEER OF DISCREPANCIES PRIOR OT START OF WORK.
3 TOTAL EQUIVALENT PIPE LENGTH = PIPE LENGTH X 1.5. ASSUME LOSS IN PIPE TO BE 4' OF HEAD PER 100' OF PIPE.
4 FT X .434 = PSIG

12/27/2023
6915 SW Macadam Ave.
Suite #200
Portland, Oregon, 97219
Phone: (503) 892-1188
Fax: (503) 892-1190
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KEYED NOTES

- 1 REFER TO CIVIL DRAWINGS FOR CONTINUATION.
- 2 SEE SEPTIC DRAWINGS FOR CONTINUATION.



F.F.E. = 100.00'

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**PLUMBING PLAN -
BELOW SLAB**

PROJECT # 22048
DATE 12/27/2023

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P201

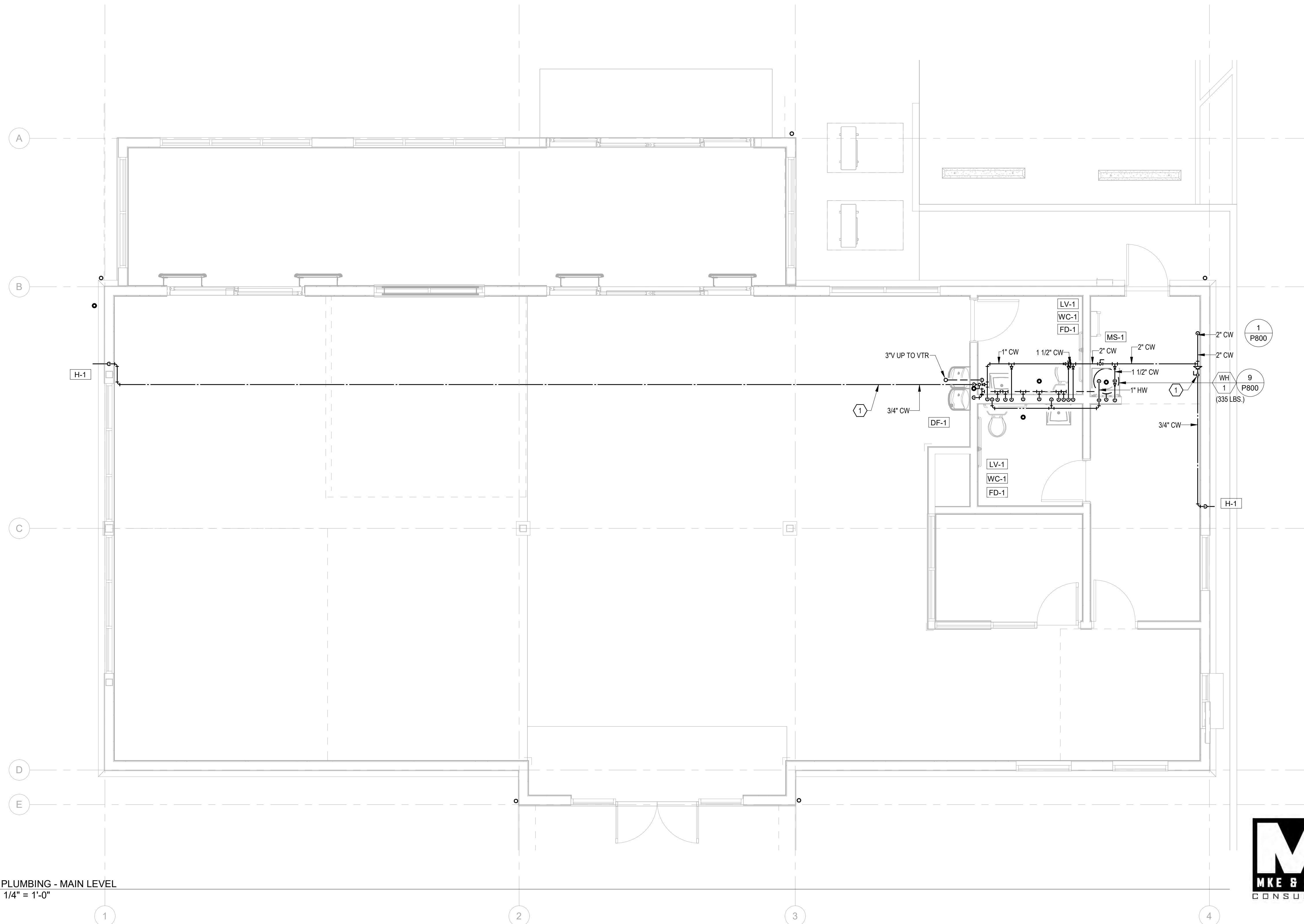
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1 PLUMBING - BELOW SLAB
1/4" = 1'-0"

KEYED NOTES

- 1 ROUTE CW PIPE UP HIGH, IN SOFFIT OR LEVEL ABOVE AS REQUIRED. PROVIDE SHUT OFF VALVE IN AN ACCESSIBLE LOCATION.



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PLUMBING - MAIN LEVEL

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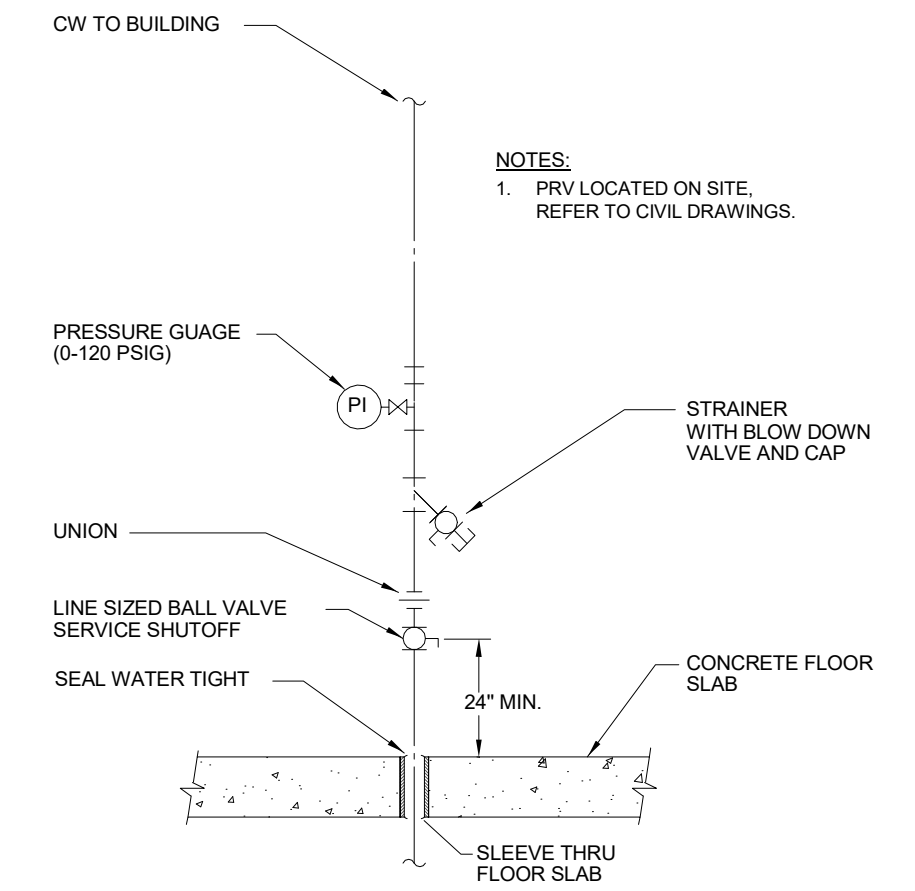


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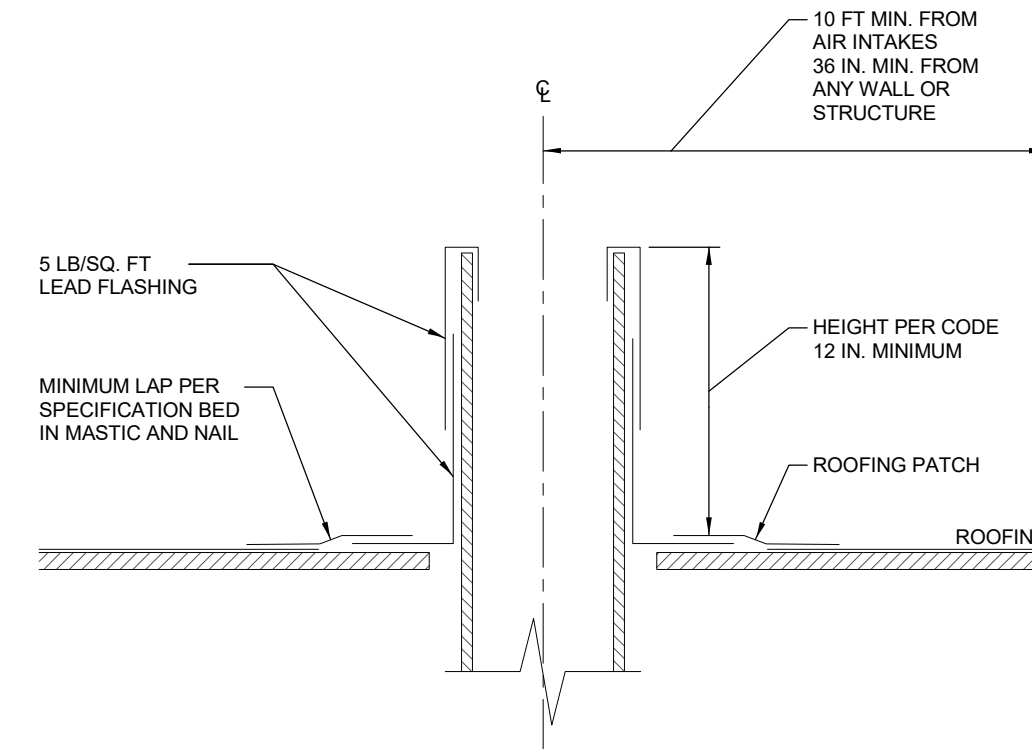
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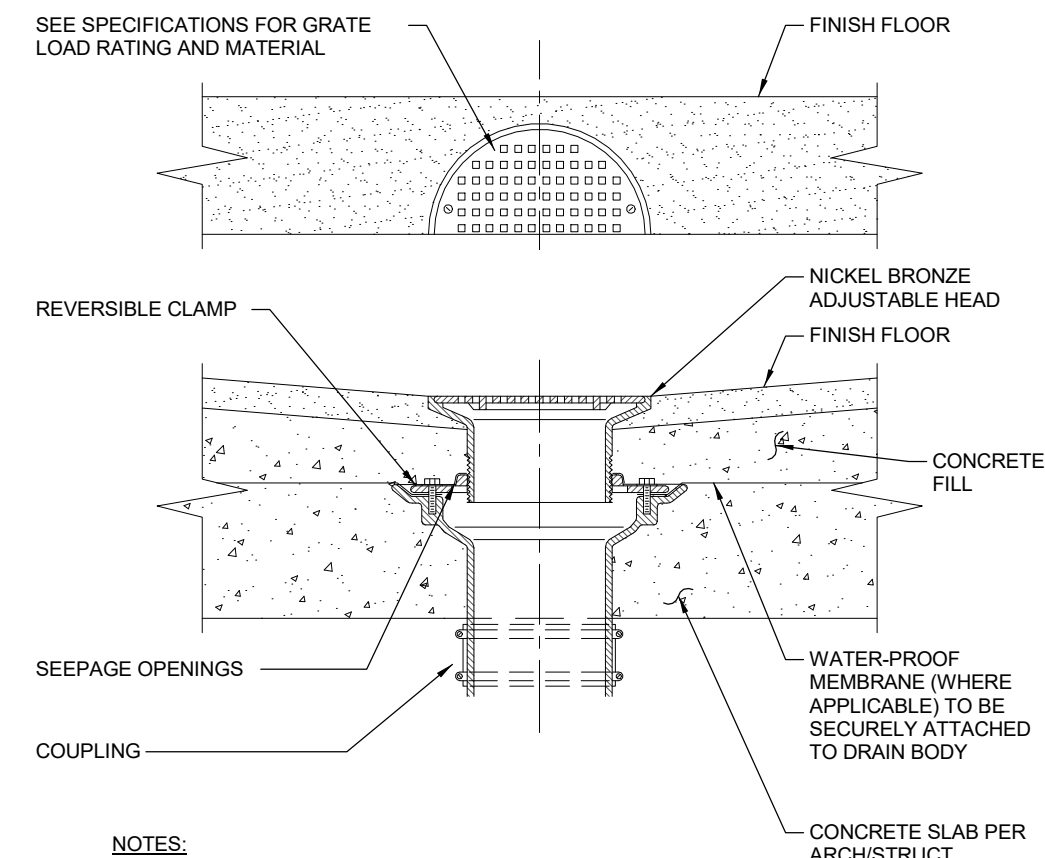
1 PLUMBING - MAIN LEVEL
1/4" = 1'-0"



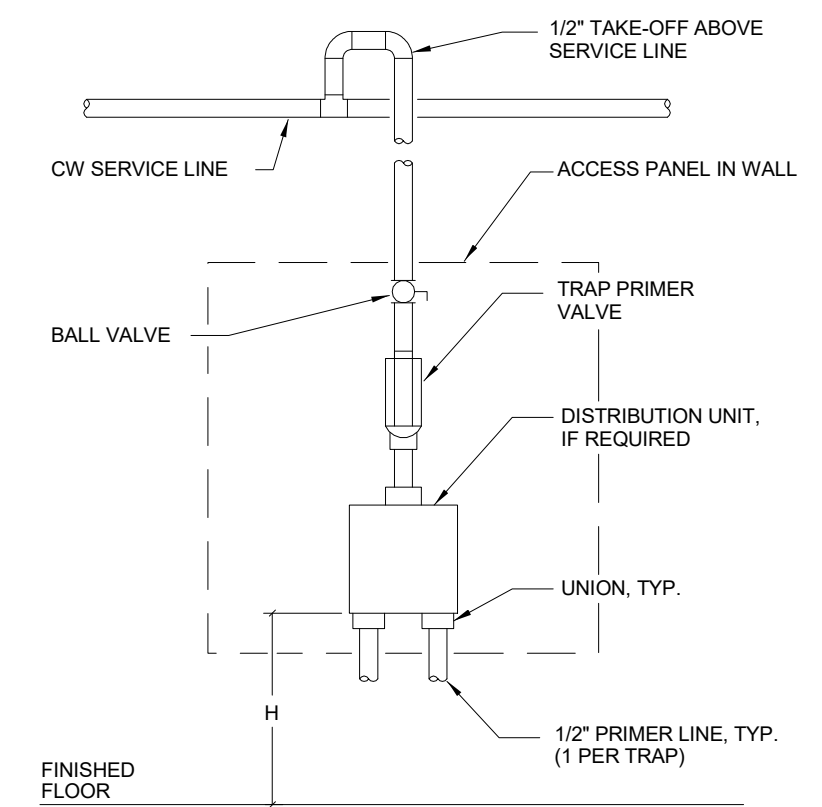
1 DETAIL - DOMESTIC CW SERVICE RISER
SCALE: N.T.S.



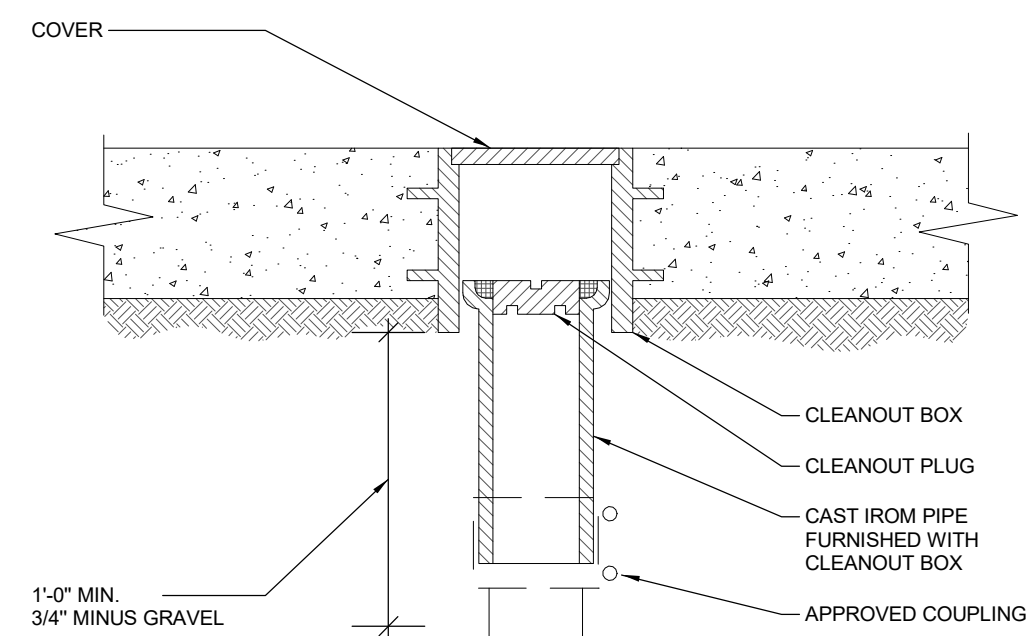
2 DETAIL - VENT THROUGH ROOF (VTR)
SCALE: N.T.S.



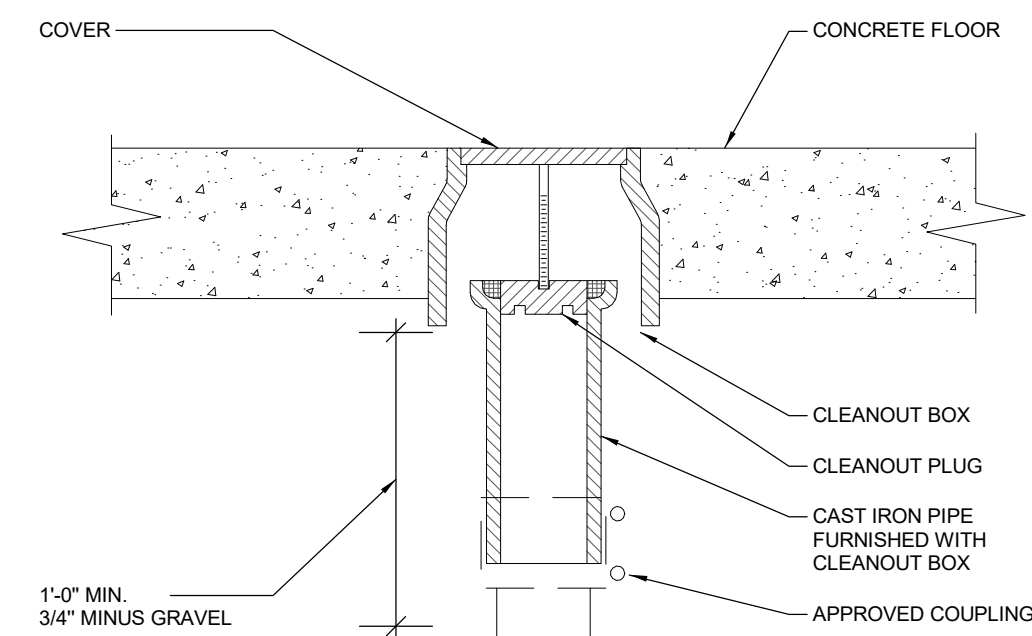
3 DETAIL - FLOOR DRAIN
SCALE: N.T.S.



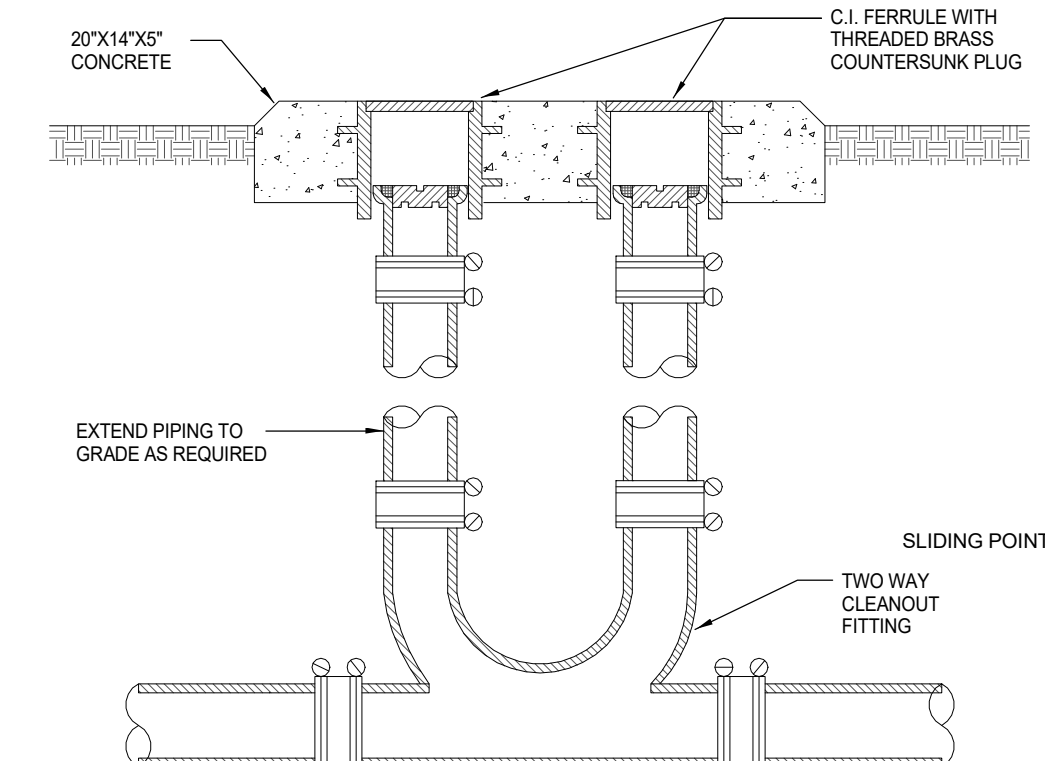
4 DETAIL - CONCEALED TRAP PRIMER
SCALE: N.T.S.



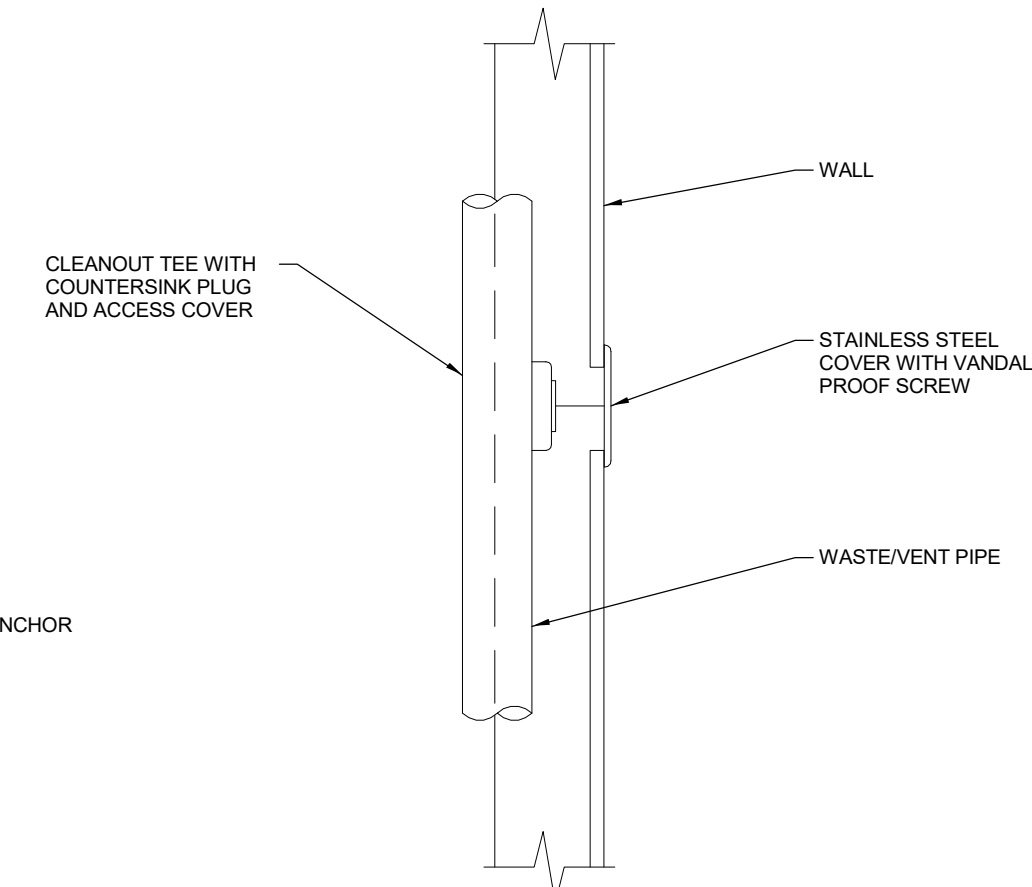
5 DETAIL - EXTERIOR CLEANOUT TO GRADE (CO-1)
SCALE: N.T.S.



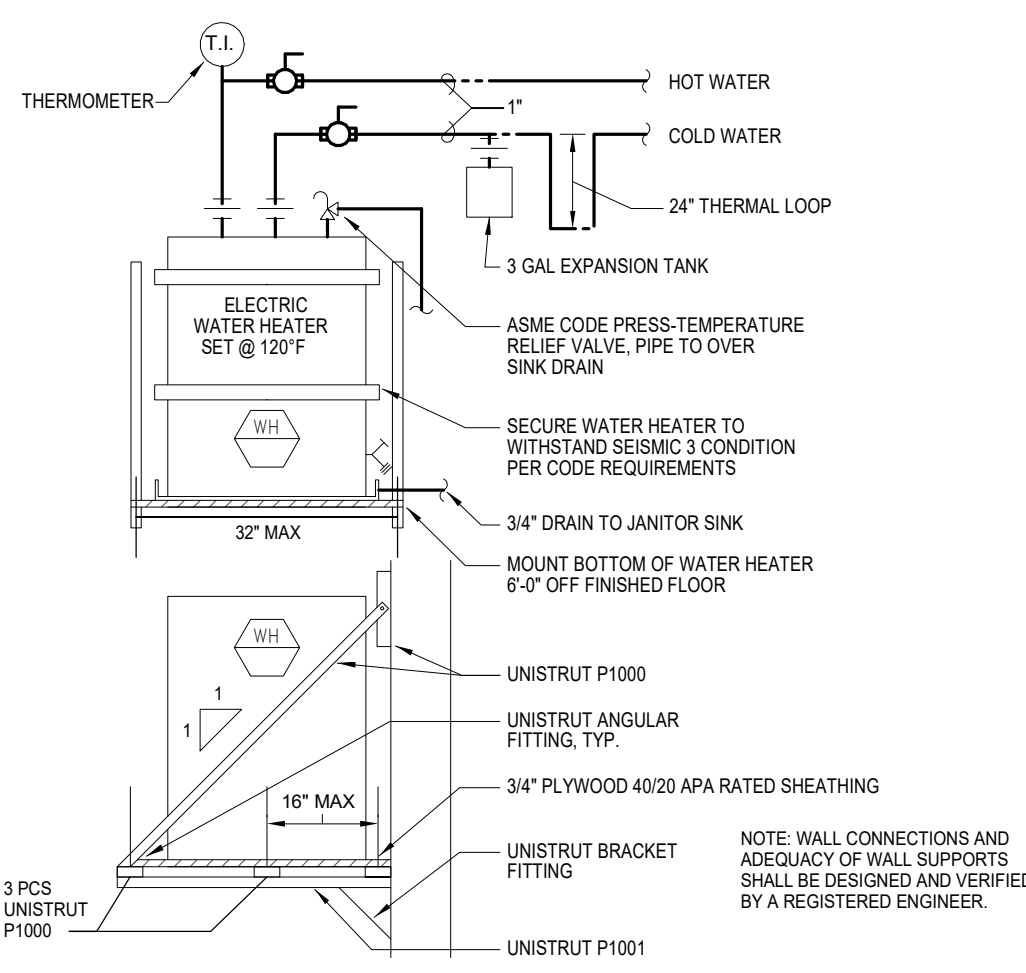
6 DETAIL - INTERIOR CLEANOUT TO GRADE (CO-2)
SCALE: N.T.S.



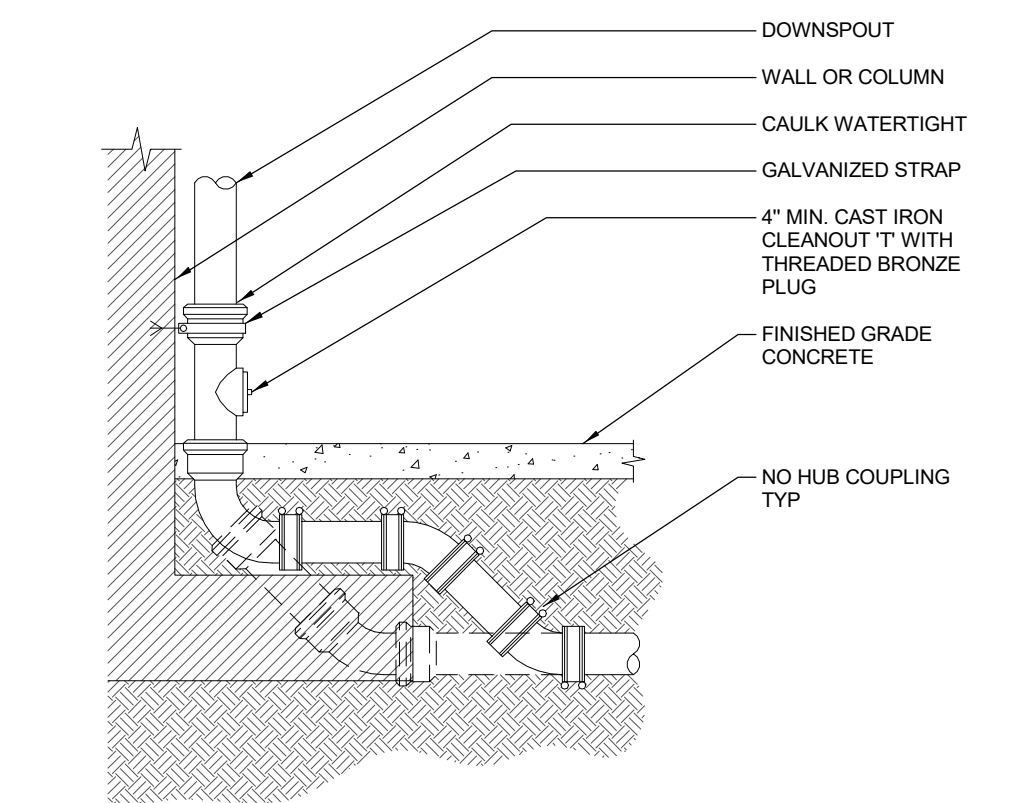
7 DETAIL - TWO-WAY EXTERIOR CLEANOUT
SCALE: N.T.S.



8 DETAIL - WALL CLEANOUT (CO-3)
SCALE: N.T.S.



9 DETAIL - ELECTRIC WATER HEATER
SCALE: N.T.S.



10 DETAIL - EXTERIOR DOWNSPOUT CONNECTION
SCALE: N.T.S.

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OUTSIDE AIR VENTILATION SINGLE ZONE SYSTEMS																		
ROOM DESCRIPTION	AZ ROOM AREA (SF)	OCCUPANCY CLASSIFICATION	OCCUPANT DENSITY (PEOPLE/1000 SF)	CODE MAX. OCCUPANCY (PEOPLE)	PZ ACTUAL OCCUPANCY (PEOPLE)	RP VENTILATION FACTOR (CFM/PERSON)	RA AREA OUTDOOR AIR RATE (CFM/SF)	VBZ BREATHING ZONE VENTILATION (CFM)	EZ AIR DISTRIBUTION EFFECTIVENESS	VOZ ZONE OUTDOOR AIRFLOW (CFM)	EXHAUST AIRFLOW RATE (CFM/SF)	EXHAUST AIRFLOW RATE (CFM/UNIT)	EXHAUST AIRFLOW (CFM)	NATURAL VENTILATION			COMMENTS	
														YES OR NO	AREA REQUIRED (SF)	AREA AVAILABLE (SF)		
LIBRARY/CHILDREN/TEEN FLEX	2,053	PUBLIC - LIBRARIES	10	21	21	5	0.12	352	1.0	352	0.00	0	0	NO	N/A	0		
RECEPTION	97	OFFICE - RECEPTION AREAS	30	3	3	5	0.06	21	1.0	21	0.00	0	0	NO	N/A	0		
OFFICE	85	OFFICE - OFFICE SPACE	5	1	1	5	0.06	11	1.0	11	0.00	0	0	NO	N/A	0		
WORK RM/STORAGE	126	OFFICE - OFFICE SPACE	5	1	1	5	0.06	13	1.0	13	0.00	0	0	NO	N/A	0		
RR	57	PUBLIC - TOILET ROOMS	0	0	0	0	0.00	0	1.0	0	0.00	50/70	0	NO	N/A	0		
RR	54	PUBLIC - TOILET ROOMS	0	0	0	0	0.00	0	1.0	0	0.00	50/70	0	NO	N/A	0		
MECH/ELECT	61	STORAGE - WAREHOUSE	0	0	0	10	0.06	4	1.0	4	0.00	0	0	NO	N/A	0		
3 SEASON	478	PUBLIC - LIBRARIES	10	5	5	5	0.12	83	1.0	83	0.00	0	0	NO	N/A	0		
SYSTEMS SERVING ROOMS:										OSA FLOW RATE (CFM) VOT :		484		EXH FLOW RATE (CFM):			0	
NOTES:																		
1 VENTILATION CALCULATION PERFORMED PER THE 2018 WASHINGTON STATE MECHANICAL CODE																		

HEAT PUMP - AIR TO AIR																						
SYMBOL MARK	DESCRIPTION	NOMINAL TONS	VOLTAGE	PH.	HP	MCA	MOP	COOLING								HEATING				SOUND RATING (dB(A))	WEIGHT (LBS)	COMMENTS
								TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	EWB (°F)	AMBIENT AIR (°F)	SEER MIN.	CAPACITY 47° F (MBH)	MIN COP 47° F (MBH)	CAPACITY 17° F (MBH)	MIN COP 17° F (MBH)	HSPF					
HP-1	OUTDOOR INVERTER, SERVE FC-1	4	208	1	-	36	40	48	48	-	80	16.5	54	3.3	39	1.8	11.0	54	278	1,2		
HP-2	OUTDOOR INVERTER, SERVE FC-2	4	208	1	-	36	40	48	48	-	80	16.5	54	3.3	39	1.8	11.0	54	278	1,2		
NOTES:																						
2. PROVIDE MANUFACTURER'S EQUIPMENT STAND, QUICK SLING QSMS2402M.																						
1. DESIGN BASIS: MITSUBISHI MXZ WHYPER HEAT																						

COLUMBIA HOLDINGS 2018 WSEC ENERGY EFFICIENCY CREDITS					
Area/Space	Area (SF)	Percentage of Building Area	Occupancy Classification	Credit Options from Table C406.1	Credit Total
FLEX	225	8.6%	B	1,3	7.0
TEEN	205	7.8%	B	1,3	7.0
CHILDREN	298	11.3%	B	1,3	7.0
LIBRARY	1,421	54.1%	B	1,3	7.0
RECEPTION	97	3.7%	B	1,3	7.0
OFFICE	85	3.2%	B	1,3	7.0
WORK/STORA...	126	4.8%	B	1,3	7.0
IT	61	2.3%	B	1,3	7.0
RR	54	2.1%	B	1,3	7.0
RR	57	2.2%	B	1,3	7.0
Notes:					
1 For credit option #3, please refer to electrical drawings					

ENERGY RECOVERY VENTILATOR																								
SYMBOL MARK	DESCRIPTION	SERVICE	SUPPLY FAN								EXHAUST FAN					EFFECTIVENESS (NOTE 1)			FILTERS TYPE	WEIGHT (LBS)	COMMENTS			
			CFM	VOLTAGE	PH.	W	MCA	FLA	ESP (IN WC)	DRIVE	CFM	VOLTAGE	PH.	W	MCA	FLA	ESP (IN WC)	DRIVE				WINTER TOTAL	SUMMER TOTAL	SENSIBLE
ERV-1	CROSS FLOW CORE, CEILING	BUILDING	605	208	1	515.0	5.2	-	0.50	DIRECT	605	208	1	515.0	5.2	-	0.50	DIRECT	64%	50%	67%	MERV 14	123	1,2,3,4,5
NOTES:																								
1 BASED ON AHRI 1060 STANDARD CONDITIONS.																								
2 PROVIDE UNIT WITH EC MOTORS. PROVIDE MOTORIZED DAMPERS AT OSA AND EXH. 5 PROVIDE MANUFACTURER'S CONTROLS, PZ-62DR-EA.																								
3 DESIGN BASIS: LOSSNAY LGH-F600																								
4 ELECTRICAL DATA IN SCHEDULE REPRESENTS SPECIFICATIONS FOR TOTAL UNIT																								

RADIANT HEATER-ELECTRIC						
SYMBOL MARK	DESCRIPTION	SERVICE	INPUT (KW)	OUTPUT (MBH)	WEIGHT (LBS)	COMMENTS
RH-1	WALL MOUNT, 3 ELEMENT	3 SEASON	3.75	3.75		1,2
RH-2	WALL MOUNT, 3 ELEMENT	3 SEASON	3.75	3.75		1,2
RH-3	WALL MOUNT, 3 ELEMENT	3 SEASON	3.75	3.75		1,2
RH-4	WALL MOUNT, 3 ELEMENT	3 SEASON	3.75	3.75		1,2
NOTES:						
1. DESIGN BASIS: DETROIT RADIANT MODEL ELX-33B3-208						
2. PROVIDE 33", 208V, MEDIUM WAVE ELEMENTS						

FAN COIL UNIT																						
SYMBOL MARK	DESCRIPTION	SERVICE	NOMINAL TONS	CFM	VOLTAGE	PH.	HP	MCA	FLA	ESP (IN WC)	RPM	CAPACITY TO MATCH	COOLING CAPACITY (MBH)	HP HEATING OUTPUT @ 47°F (MBH)	HP HEATING OUTPUT @ ... (MBH)	AUXILIARY HEAT (KW)	STEPS	MINIMUM OSA CFM	WEIGHT (LBS)	COMMENTS		
FCU-1	MULTI POSITION	LIBRARY, LOBBY, FLEX, CHILDRENS	4	1,400	208	1	-	5.6	15.0	0.80		HP-1	54	54	54	-	-	-	230	1,2,3,4		
FCU-2	MULTI POSITION	RECEPTION, OFFICE, LIBRARY	4	1,400	208	1	-	5.6	15.0	0.80		HP-2	54	54	54	-	-	-	230	1,2,3,4		
NOTES:																						
1. DESIGN BASIS: MITSUBISHI PVFY																						
2. OUTSIDE AIR PROVIDED BY ERV-1																						
3. PROVIDE MANUFACTURER'S ECONOMIZER																						
4. PROVIDE MANUFACTURER'S FAN STAND, MODEL...																						
5. PROVIDE MANUFACTURER'S CONTROLS, PAR-40.																						

DIFFUSER, REGISTER, AND GRILLE SCHEDULE							
SYMBOL	TYPE	FACE	FRAME	DAMPER	FINISH	MODEL #	COMMENTS
SR-1	SUPPLY	DOUBLE DEFLECTION	SURFACE	YES	WHITE	TITUS 300RL	
CD-1	SUPPLY	PERFORATED	SURFACE	NOTE 1	WHITE	TITUS PAS	
RD-1	RETURN	PERFORATED	SURFACE	NOTE 1	WHITE	TITUS PAR	
RG-1	RETURN	EGG CRATE	SURFACE	YES	WHITE	TITUS 50F	
NOTES:							
1 PROVIDE DAMPER IN DUCT BRANCH TO DIFFUSER							

HVLS - CEILING FAN															
SYMBOL MARK	DESCRIPTION	SERVICE	VOLTAGE	PH.	W	MCA	FLA	DRIVE	MAX SPEED RPM	CONTROL	DIA, (FT)	MOUNT HEIGHT (FT.)	DB(A)	WEIGHT (LBS)	COMMENTS
CF-1	CEILING FAN	LIBRARY	115	1	50	-	1.6	-	196	TOUCH SCREEN	5	12	29.0	86	1,2,3
CF-2	CEILING FAN	TEEN/CHILDREN	115	1	50	-	1.6	-	196	TOUCH SCREEN	5	12	29.0	86	1,2,3
NOTES:															
1. DESIGN BASIS: GREENHECK DC-5-5-3MV															
2. PROVIDE MANUFACTURER'S MOUNTING KIT															
3. PROVIDE MANUFACTURER'S ADVANCED WALL MOUNT TOUCH SCHREEN CONTROLS															

ELECTRIC DUCT HEATER														
SYMBOL MARK	DESCRIPTION	SERVICE	CFM	VOLTAGE	PH.	KW	MCA	FLA	TSP (IN WC)	EAT (°F)	LAT (°F)	STAGES	WEIGHT (LBS)	COMMENTS
EDH-1	IN LINE, SLIP IN CONSTRUCTION	ERV-1	500	230	1	6	26.1					1		1,2,3
NOTES:														
1. DESIGN BASIS: TUTCO E SERIES														
2. PROVIDE 24VAC FOR CONTROLS														
3. UNIT TO BE CONTROLLED BY ERV-1 CONTROLS														

LOUVER									
SYMBOL MARK	DESCRIPTION	SERVICE	CFM	WIDTH (IN)	HEIGHT (IN)	FREE AREA (SQ.FT)	VELOCITY (FPM)	WEIGHT (LBS)	COMMENTS
L-1	RELIEF	ERV-1	500	24	18	1.3	397		1
L-2	INTAKE	FC-2	1,400	34	26	3.0	467		1
L-3	RELIEF	LIBRARY	2,800	42	36	5.5	514		1
NOTES:									
1. DESIGN BASIS: RUSKIN ELF81S30									

TRANSFER FAN																	
SYMBOL MARK	DESCRIPTION	SERVICE	CFM	ESP (IN WC)	VOLTAGE	PH.	WATT	MCA	FLA	DRIVE	RPM	INTERLOCK	WHEEL TYPE	DISCHARGE	SONES	WEIGHT (LBS)	COMMENTS
TF-1	IN-WALL, 3 SEASON TO LIBRARY	3 SEASON	85	-	120	1	25	-			180	CONTINUOUS	-		1.2		1,2
NOTES:																	
1. DESIGN BASIS: TJERNLUND AIRESHARE AS2																	
2. UNIT MOUNTED LOW, BOTTOM OF GRILLE AT 6" AFF.																	

ROOF HOOD									
SYMBOL MARK	DESCRIPTION	SERVICE	CFM	THROAT SIZE WIDTH (IN)	THROAT SIZE LENGTH (IN)	THROAT VELOC... (FPM)	WEIGHT (LBS)	COMMENTS	
RH-1	INTAKE	ERV-1	500	12	12	500		1	
RH-2	INTAKE	FC-1	1,400	20	20	504		1	
NOTES:									
1. DESIGN BASIS: GREENHECK FGI									



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MECHANICAL SCHEDULES

PROJECT # 22048
DATE 12/27/2023

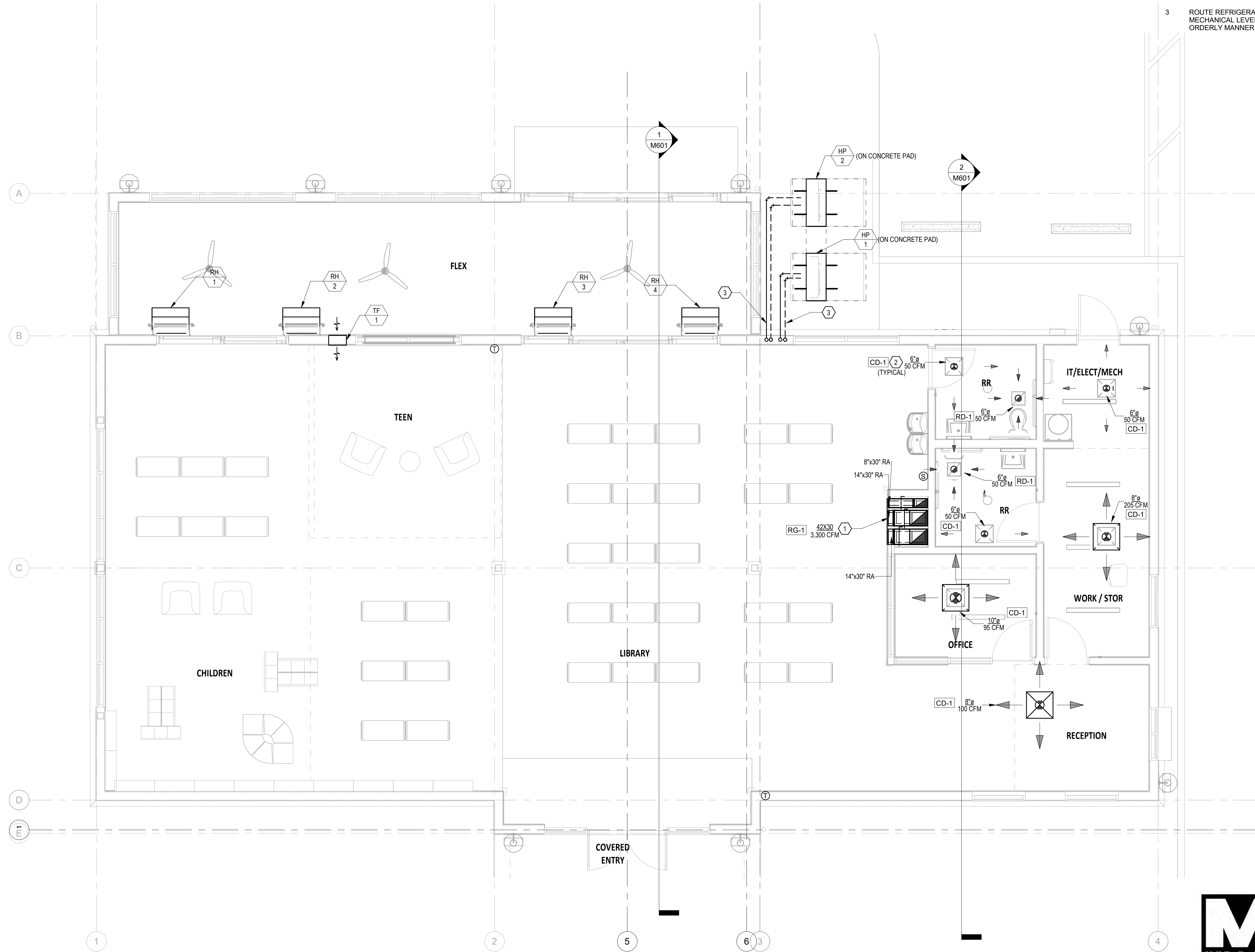
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BID SET

KEYED NOTES

- 1 PROVIDE GRILLE TO SERVE RETURN DUCTS FOR FC-1, FC-2, & ERV-1. LOCATE BOTTOM OF GRILLE 0'-6" AFF.
- 2 ROUTE DUCTWORK UP TO LEVEL ABOVE, REFER TO SHEET M203 FOR CONTINUATION.
- 3 ROUTE REFRIGERANT PIPING LINE SETS FROM UNIT. UP IN EXTERIOR WALL TO MECHANICAL LEVEL. PROVIDE COVERS & SUPPORTS AS REQUIRED & INSTALL IN AN ORDERLY MANNER.



TIMBERLAND REGIONAL LIBRARY DIST.
MOUNTAIN VIEW LIBRARY
10111 US HIGHWAY 12, WHITE PASS
RANDLE, WA 98377

MECHANICAL -
MAIN LEVEL

PROJECT # 22048
DATE 12/27/2023

REV #	DATE	DESCRIPTION



12/27/2023
6915 SW Macadam Ave.
Suite #200
Portland, Oregon, 97219
Phone: (503) 892-1188
Fax: (503) 892-1190
Contact: Kori Hansen
Since 1979



M202

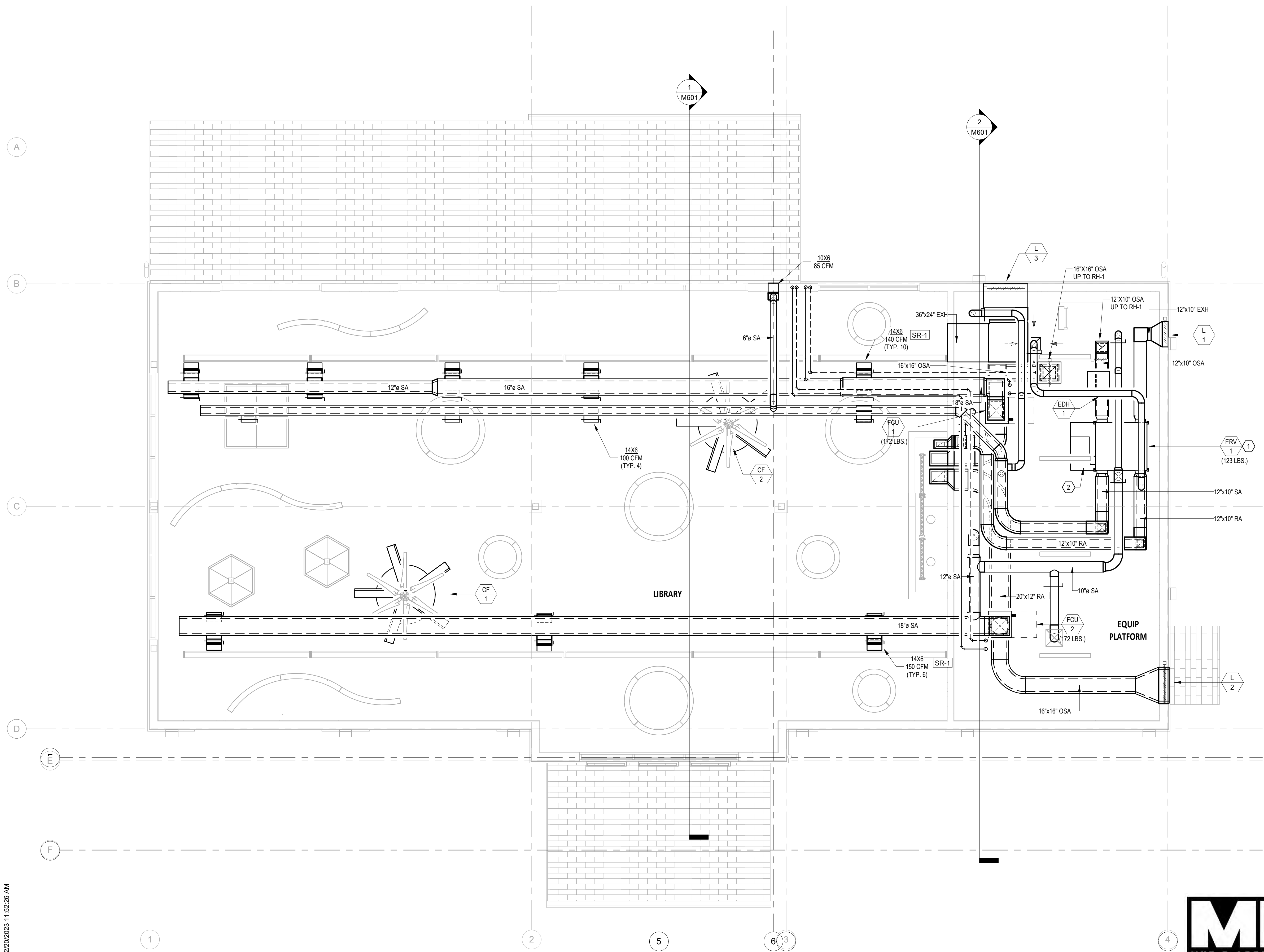
BID SET

12/20/2023 11:52:24 AM

1 HVAC - MAIN LEVEL
1/4" = 1'-0"

KEYED NOTES

- 1 EQUIPMENT LOCATED ON FLOOR OF MECHANICAL LEVEL. PROVIDE VIBRATION ISOLATION PAD
- 2 ERV-1 SERVICE CLEARANCE.



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MECHANICAL LEVEL

PROJECT # 22048
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REV #	DATE	DESCRIPTION



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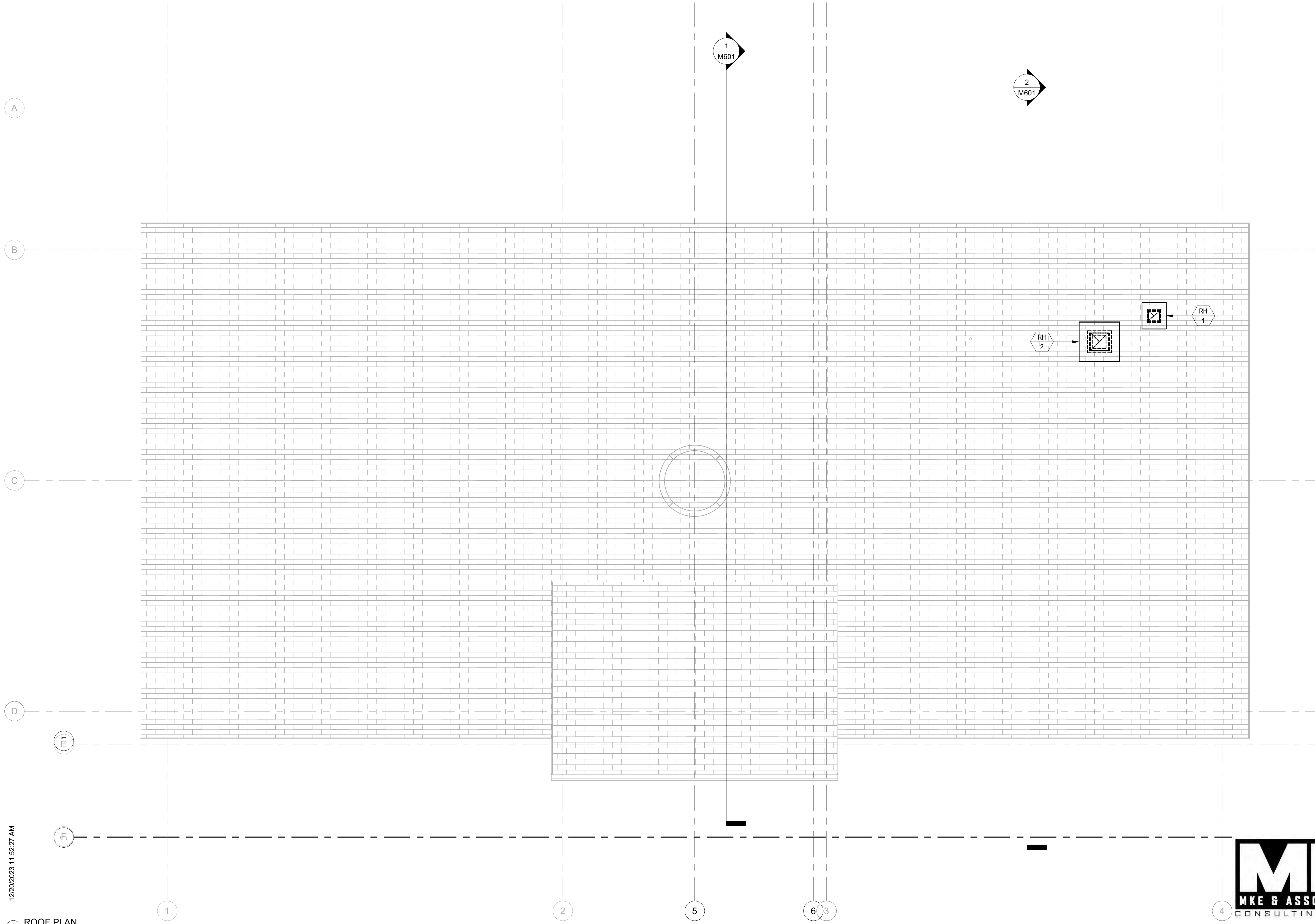


M203

BID SET

12/20/2023 11:52:26 AM

1 MECHANICAL EQUIPMENT LEVEL
1/4" = 1'-0"



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RANDLE, WA 98377

MECHANICAL
ROOF PLAN

PROJECT # 22048
DATE 12/27/2023

REV #	DATE	DESCRIPTION



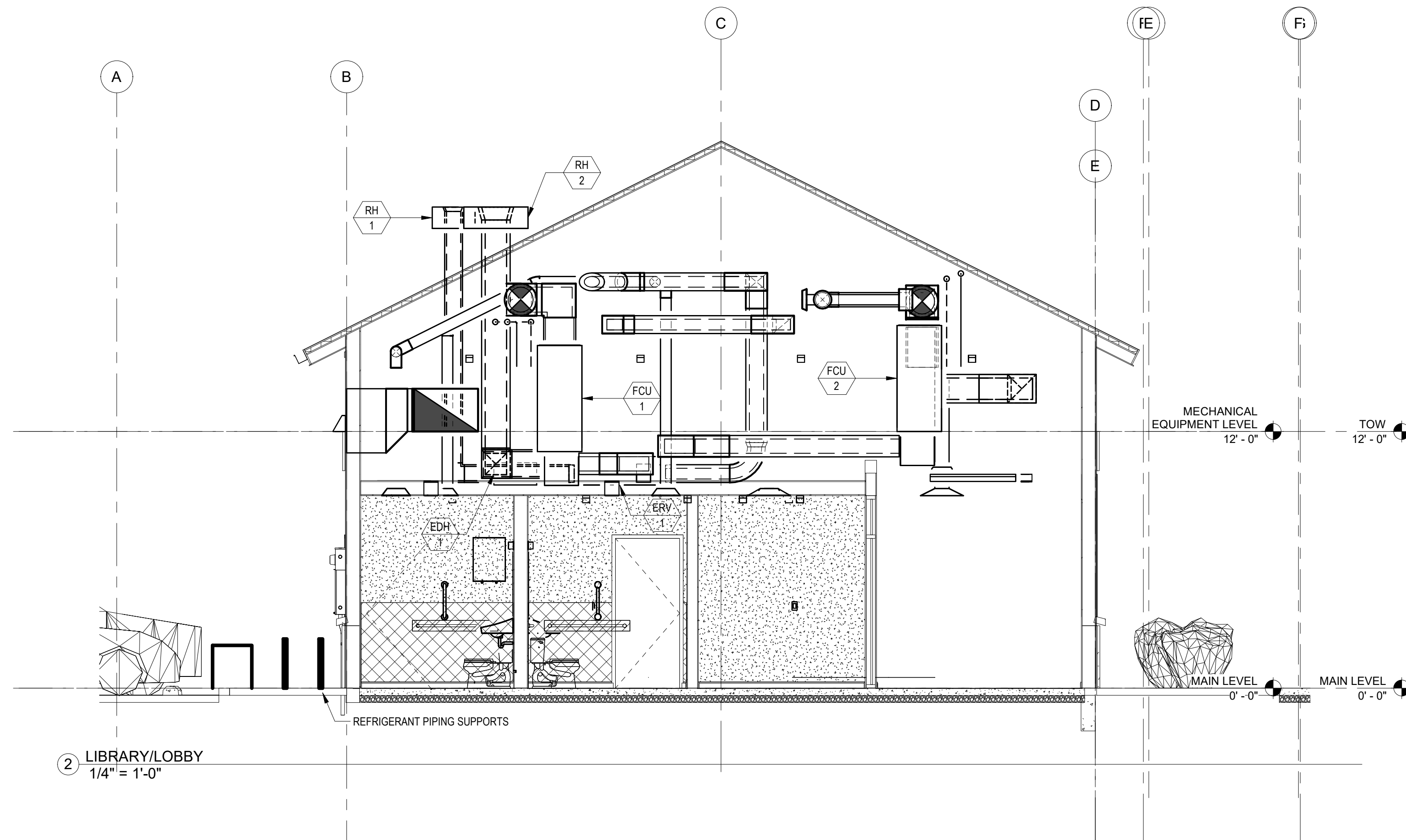
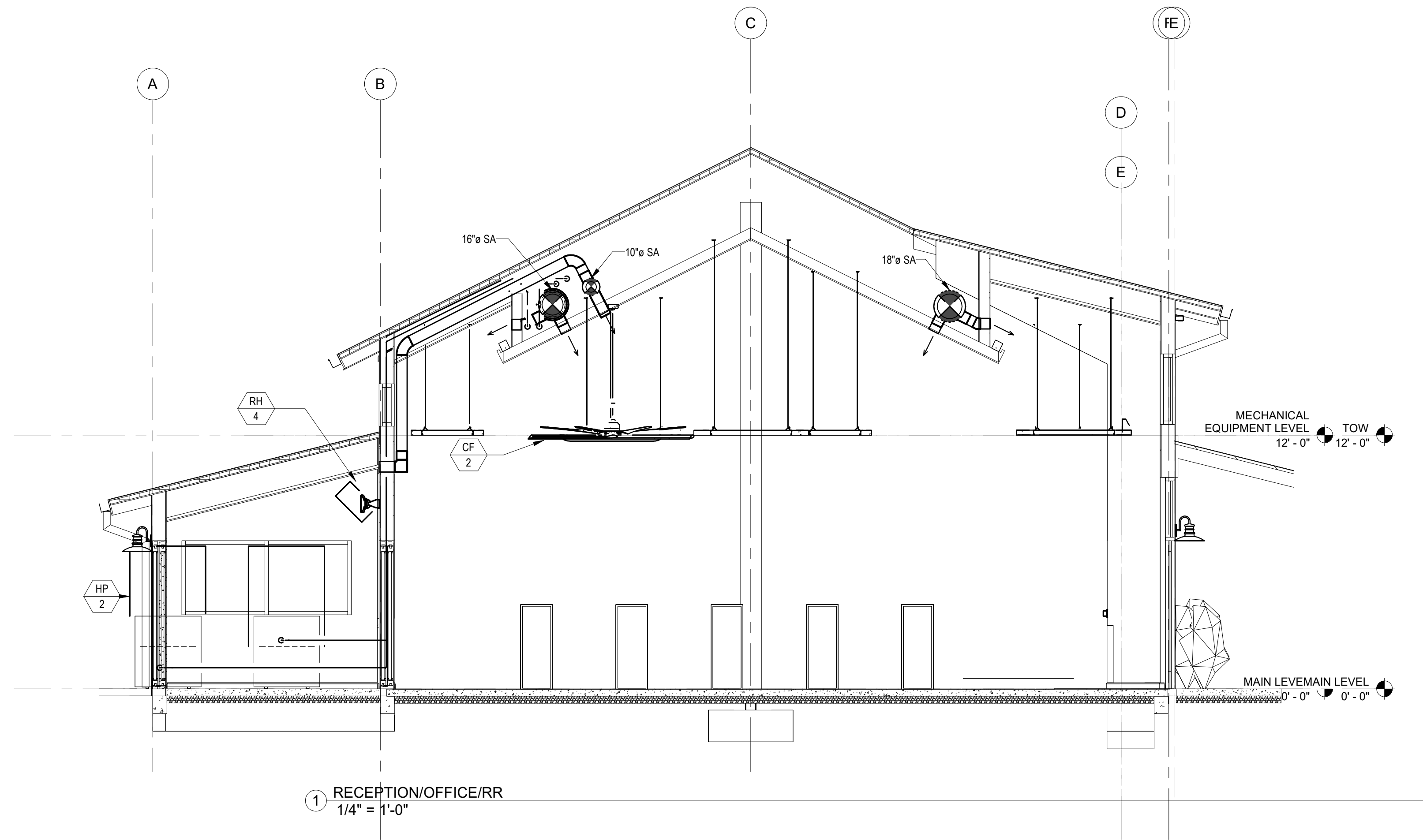
12/27/2023
6915 SW Macadam Ave.
Suite #200
Portland, Oregon, 97219
Phone: (503) 892-1188
Fax: (503) 892-1190
Contact: Kori Hansen
Since 1979



M211

BID SET

12/20/2023 11:52:27 AM



TIMBERLAND REGIONAL LIBRARY DIST.
MOUNTAIN VIEW LIBRARY
10111 US HIGHWAY 12, WHITE PASS
RANDLE, WA 98377

MECHANICAL SECTIONS

PROJECT # 22048
DATE 12/27/2023

REV #	DATE	DESCRIPTION



12/27/2023

6915 SW Macadam Ave.
Suite #200
Portland, Oregon, 97219
Phone: (503) 892-1188
Fax: (503) 892-1190
Contact: Kori Hansen
Since 1979



M601

BID SET

TIMBERLAND REGIONAL LIBRARY DIST.
MOUNTAIN VIEW LIBRARY
10111 US HIGHWAY 12, WHITE PASS
RANDLE, WA 98377

**MECHANICAL
DETAILS**

PROJECT # 22048
DATE 12/27/2023

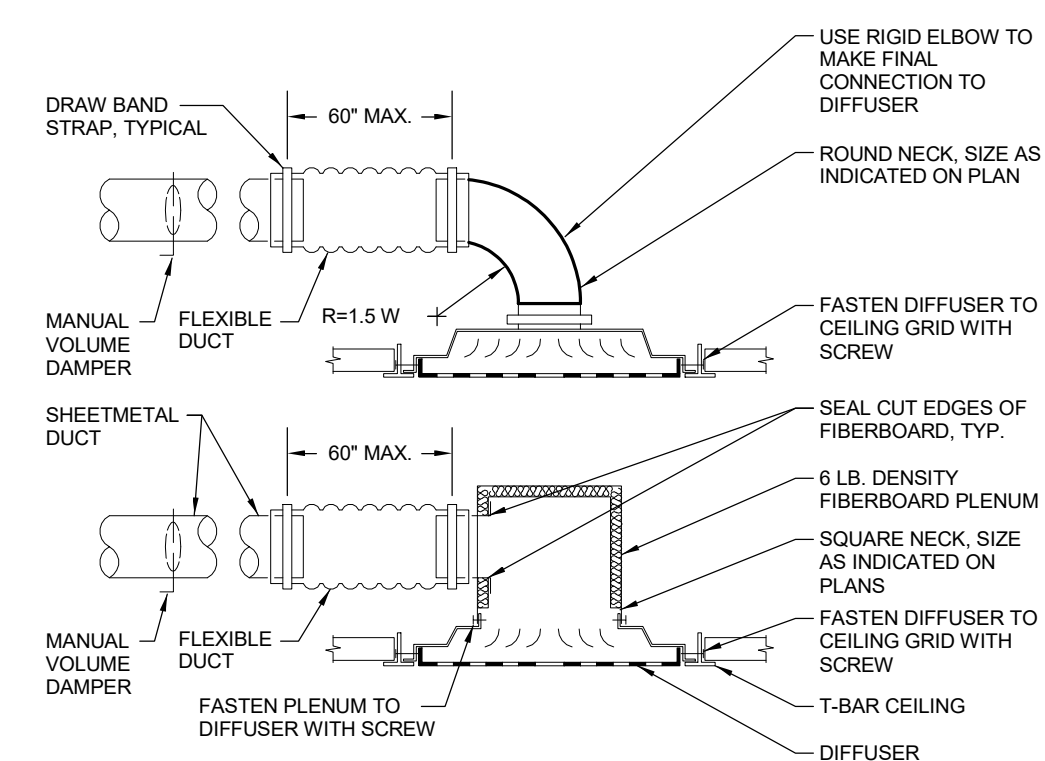
REV #	DATE	DESCRIPTION



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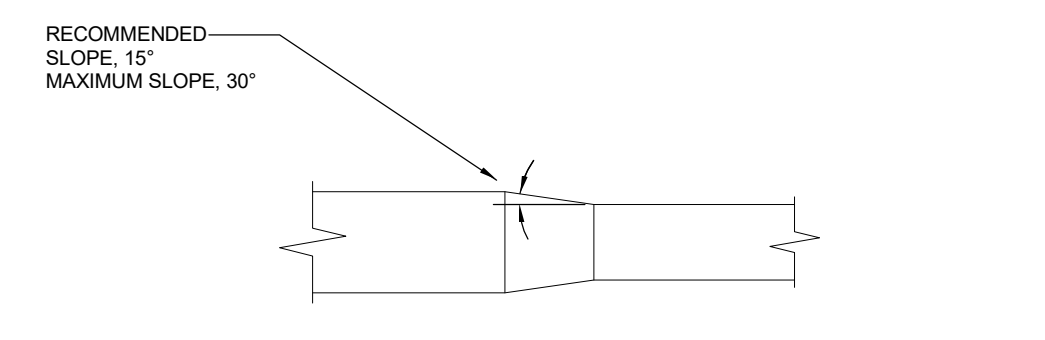


M800
BID SET

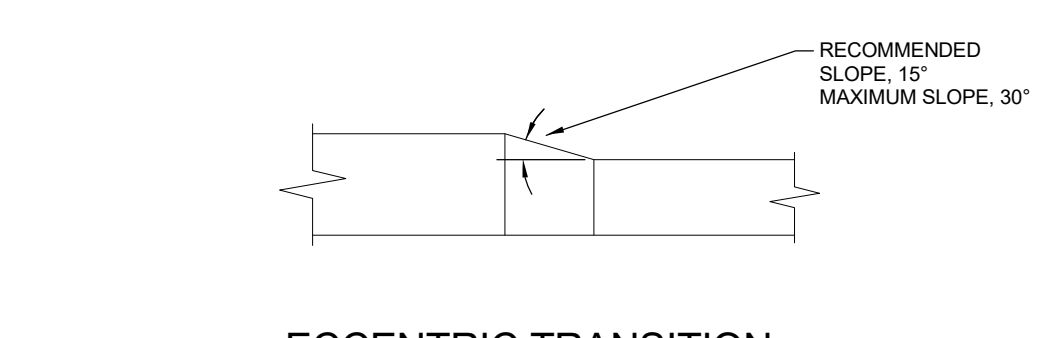


- NOTES:**
1. DIFFUSER FRAME SHALL MATCH ARCHITECTURAL CEILING TYPE.
 2. IN NON-LAY-IN CEILINGS, PROVIDE 18" X 18" MINIMUM ACCESS PANEL OR REMOTE OPERATOR FOR BALANCING DAMPER. COORDINATE LOCATION WITH ARCHITECT.
 3. IF DUCT SIZE IS DIFFERENT FROM DIFFUSER NECK SIZE, PROVIDE TRANSITION FITTING AT DIFFUSER NECK.

1 **DETAIL - CEILING SUPPLY DIFFUSER**
M800 SCALE: N.T.S.

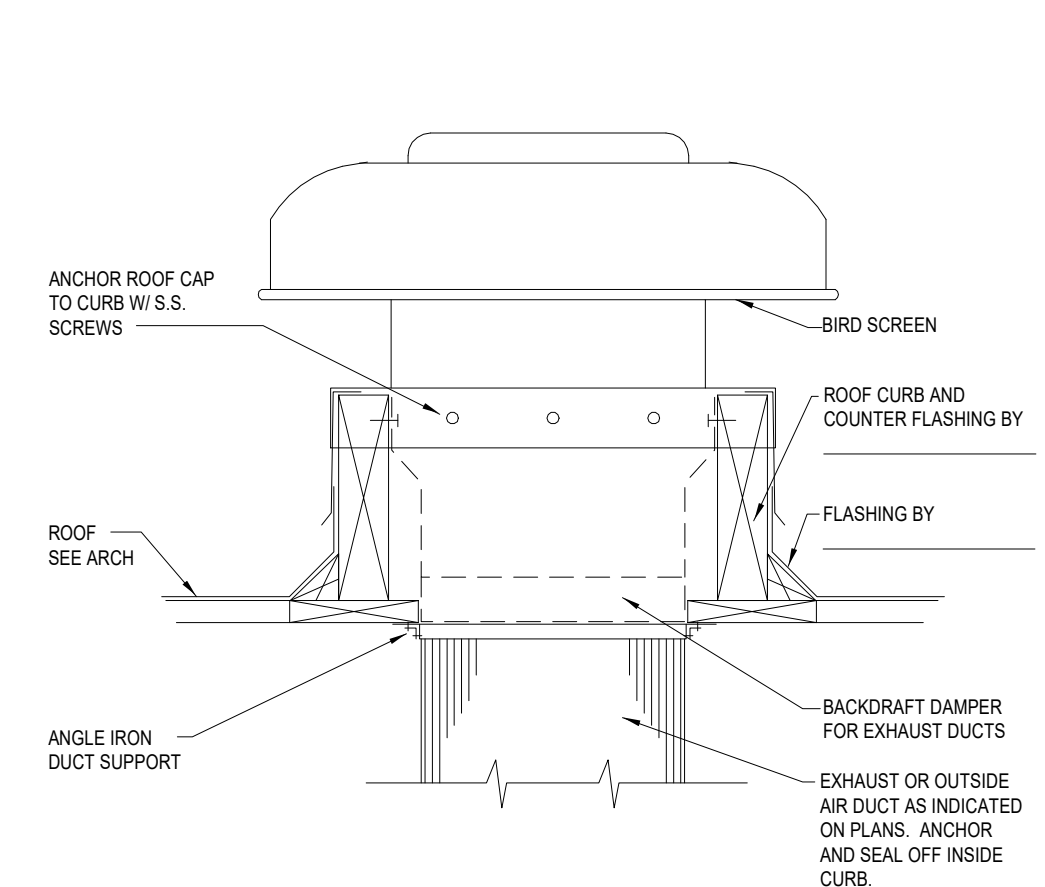


CONCENTRIC TRANSITION

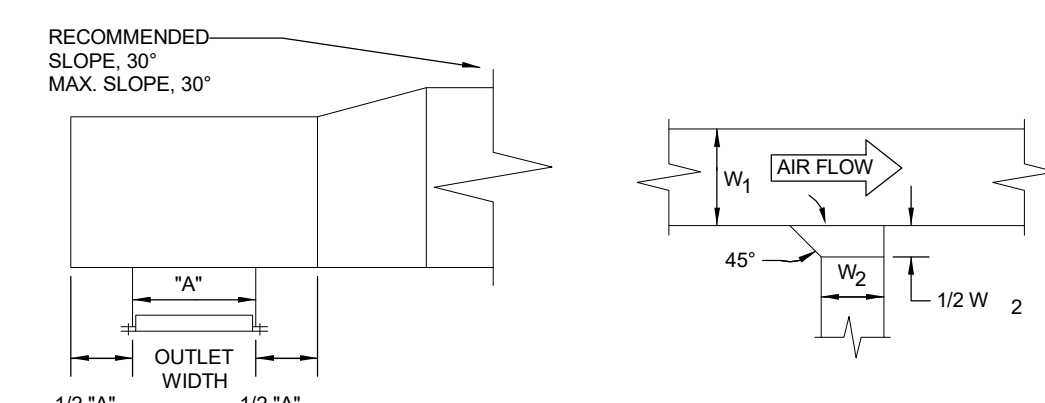


ECCENTRIC TRANSITION

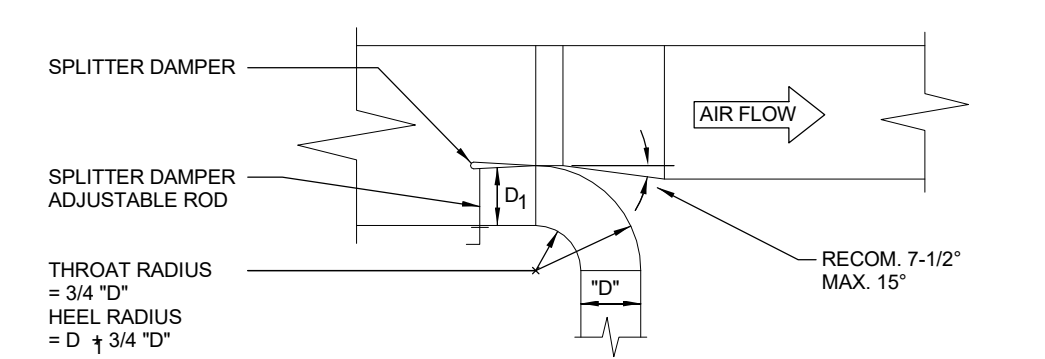
5 **DETAIL - DUCT TRANSITIONS**
M800 SCALE: N.T.S.



2 **DETAIL - ROOF HOOD**
M800 SCALE: N.T.S.

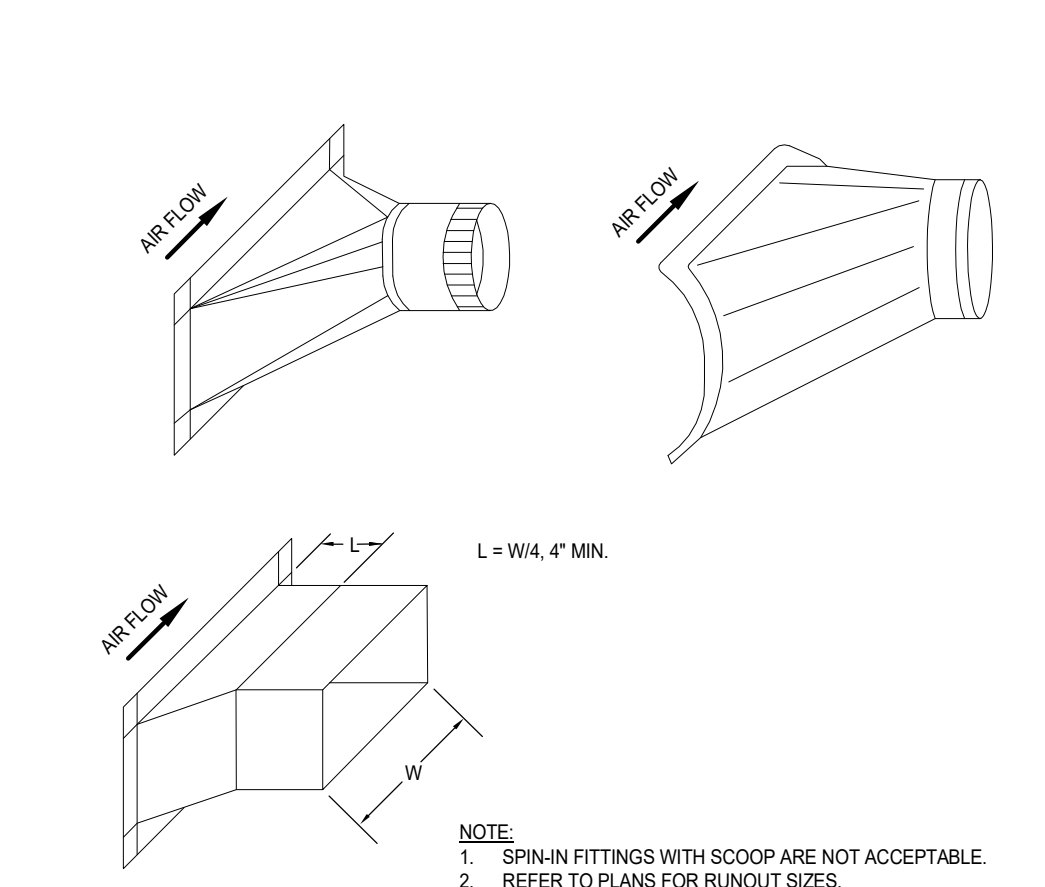


CUSHION HEAD DETAIL **90° TAKE-OFF**

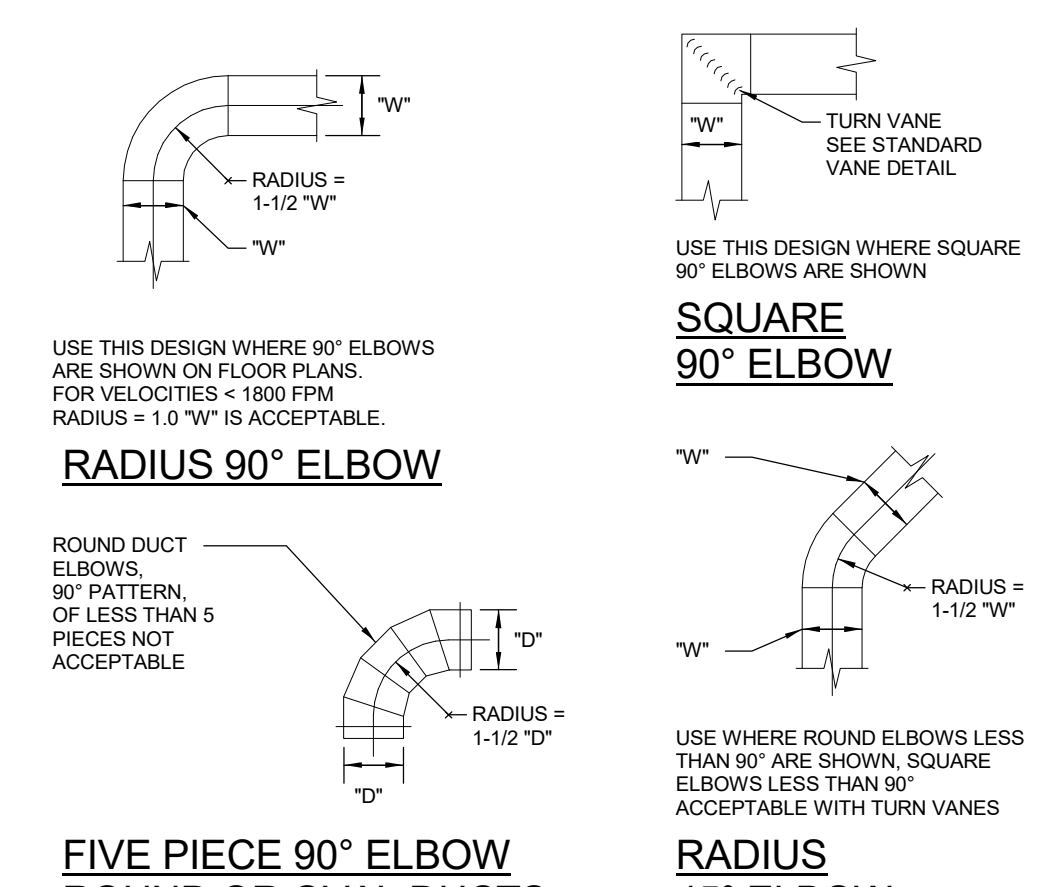


TYPICAL DUCT TAKE-OFF

6 **DETAIL - 90° TAKE-OFF AND SPLITTER**
M800 SCALE: N.T.S.



3 **DETAIL - BRANCH DUCT FITTING**
M800 SCALE: N.T.S.



4 **DETAIL - DUCT ELBOWS**
M800 SCALE: N.T.S.



TIMBERLAND REGIONAL LIBRARY DIST.
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ELECTRICAL COVER SHEET

PROJECT # 22048
DATE 12/27/2023

REV #	DATE	DESCRIPTION

E001
BID SET

DRAWING INDEX	
SHEET NUMBER	SHEET NAME
E001	ELECTRICAL COVER SHEET
E002	ELECTRICAL ONE-LINE DIAGRAM
E011	ELECTRICAL SCHEDULES
E012	ELECTRICAL SCHEDULES
E101	ELECTRICAL SITE PLAN
E201	POWER AND SIGNAL PLAN - LEVEL 1
E301	OVERALL LIGHTING PLAN
E302	DAYLIGHT ZONE PLAN - LEVEL 1
E401	ENLARGED ELECTRICAL PLANS
E501	ELECTRICAL DETAILS

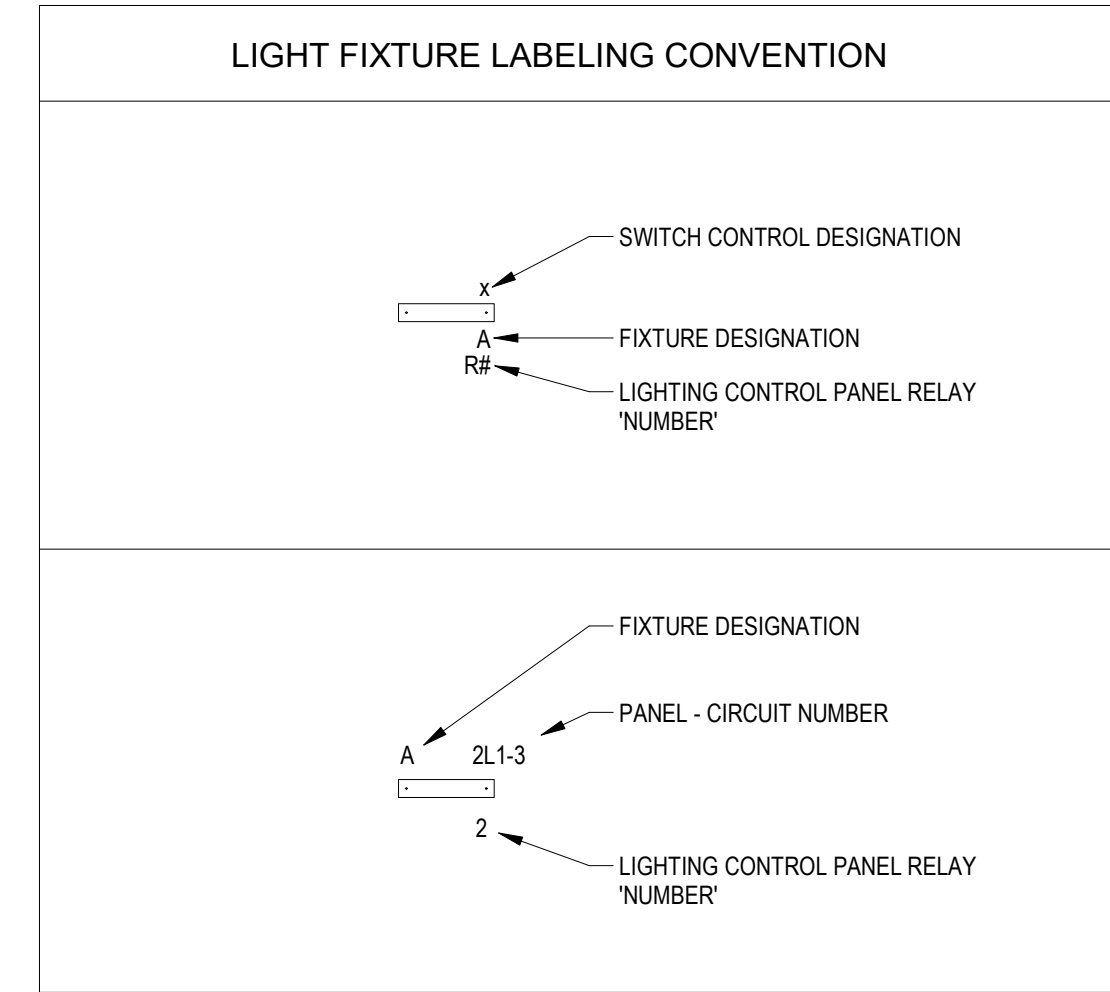
ABBREVIATIONS	
(E)	EXISTING TO REMAIN
(F)	FUTURE
(R)	EXISTING TO BE RELOCATED
(D)	EXISTING TO BE DEMOLISHED
AB	ABOVE COUNTER BACKSPLASH
AC	ALTERNATING CURRENT
A, AMP	AMPERES
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFI	ARC-FAULT CIRCUIT INTERRUPTER
AHJ	AUTHORITY HAVING JURISDICTION
AIC	EQUIPMENT SHORT CIRCUIT INTERRUPT RATING
AL	ALUMINUM
ALC	AUTOMATIC LIGHTING CONTROL
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CLG	CEILING
CT	CURRENT TRANSFORMER
CU	COPPER
DC	DIRECT CURRENT
DISC	DISCONNECT
DIA	DIAMETER
DIV	DIVISION
DP	DISTRIBUTION PANEL
DWG	DRAWING
EF	EXHAUST FAN
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
FA	FIRE ALARM
FAA	FIRE ALARM ANNUNCIATOR
FBO	FURNISHED BY OTHERS
FC	FOOT CANDLES
FLA	FULL LOAD AMPERES
FSD	FIRE/SMOKE DAMPER
GEN	GENERATOR
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
HP	HORSEPOWER
HTR	HEATER
IG	ISOLATED GROUND
KOMIL	THOUSAND CIRCULAR MILS
KW	KILOWATTS
KVA	KILOVOLT-AMPERES
LTG	LIGHTING
LCP	LIGHTING CONTROL PANEL
MAX	MAXIMUM
MB	MAIN BREAKER
MCA	MINIMUM CIRCUIT AMPERES
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MSP	MAIN SERVICE PANEL
MTD	MOUNTED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MFG'R'S ASSOCIATION.
NL	NIGHT LIGHT
NTS	NOT TO SCALE
OFCl	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OS	OCCUPANCY SENSOR
PH, Ø	PHASE
PNL	PANEL
SDP	SUB DISTRIBUTION PANEL
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TB	TERMINAL BOARD
TEL	TELEPHONE
TK	INSTALL TOE KICK
TYP	TYPICAL
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLTS
VA	VOLT-AMPERES
VFD	VARIABLE FREQUENCY DRIVE
VR	VANDAL RESISTANT
W	WATT
W	WITH
W/O	WITHOUT
WG	WIRE GUARD
WP	WEATHERPROOF
XFMR	TRANSFORMER

LIGHTING CONTROL DEVICES	
\$	SINGLE -POLE SWITCH [+45°]
\$ ²	TWO-POLE SWITCH [+45°]
\$ ³	THREE-WAY SWITCH [+45°]
\$ ⁴	FOUR-WAY SWITCH [+45°]
\$ ^K	SINGLE POLE KEYED SWITCH [+45°]
\$ ^{LV}	LOW-VOLTAGE SWITCH [+45°]
\$ ^D	DIMMER SWITCH [+45°]
\$ ^P	SINGLE-POLE SWITCH W/PILOT LIGHT [+45°]
\$ ^M	MOMENTARY LOW-VOLTAGE SWITCH [+45°]
\$ ^{MK}	MOMENTARY LOW-VOLTAGE KEYED SWITCH [+45°]
\$ ^S	SINGLE-POLE SWEEP SWITCH [+45°]
\$ ^{S3}	THREE-WAY SWEEP SWITCH [+45°]
\$ ^O	WALL MOUNT OCCUPANCY SENSOR SWITCH [+45°]
\$ ^{CRD}	CLASSROOM DIMMER SWITCH [+45°]
\$ ^{ADCK}	ADMIN DIMMER SWITCH [+45°]
\$ ^{CON}	CONFERENCE ROOM SWITCH [+45°]
\$ ^{CCD}	CULTURAL CLASSROOM SWITCH [+45°]
\$ ^{MPO}	MULTI-PURPOSE ROOM SWITCH [+45°]
EM	UL 924 EMERGENCY LOAD TRANSFER DEVICE
OS	OCCUPANCY SENSOR (CEILING OR WALL MOUNTED)
P	POWER PACK
R	RELAY / SLAVE PACK
RC1	SINGLE ZONE ROOM CONTROLLER
RC2	TWO ZONE ROOM CONTROLLER
RC3	THREE ZONE ROOM CONTROLLER
DS	DAYLIGHT SENSOR

LINETYPE LEGEND	
	ITEMS TO BE DEMOLISHED (TYPICAL)
	EXISTING ITEMS (TYPICAL)
	UNDERGROUND
	ABOVE GROUND, IN WALL, CEILING ETC.

TELECOMMUNICATION DEVICES	
▽	TELECOM OUTLET W/ (1) CAT6A DEVICES [+18"]
▽	TELECOM OUTLET W/ (2) CAT6A DEVICES [+18"]
▽	TELECOM OUTLET W/ (2) CAT6A DEVICES [ABOVE COUNTER]
▽	WALL PHONE W/ (1) CAT6A DEVICE [+44"]
▽	DATA OUTLET FOR WIRELESS NODE W/ (1) CAT6A [AT CEILING UNLESS NOTED OTHERWISE] (SEE PLANS)
▽	DATA OUTLET ON CEILING W/ (1) CAT 6A DEVICE

LIGHTING FIXTURES	
	SINGLE FACE / DOUBLE FACE CEILING MOUNTED EXIT SIGN
	SINGLE FACE / DOUBLE FACE MOUNTED PERPENDICULAR TO WALL EXIT SIGN
	SINGLE FACE SURFACE MOUNTED EXIT SIGN
	SURFACE MOUNTED LINEAR LIGHT FIXTURE [LENGTH AS SHOWN ON DRAWING]
	SURFACE LIGHT FIXTURE
	EMERGENCY SURFACE LIGHT FIXTURE
	RECESSED LIGHT FIXTURE
	EMERGENCY RECESSED LIGHT FIXTURE
	RECESSED LIGHT FIXTURE
	EMERGENCY RECESSED LIGHT FIXTURE
	STRIP LIGHT FIXTURE
	EMERGENCY STRIP LIGHT FIXTURE
	LINEAR PENDANT LIGHT FIXTURE
	EMERGENCY LINEAR PENDANT LIGHT FIXTURE
	LINEAR WALL MOUNT LIGHT FIXTURE
	EMERGENCY LINEAR WALL MOUNT LIGHT FIXTURE
	ADJUSTABLE 3-HEAD RECESSED LIGHT FIXTURE
	EMERGENCY ADJUSTABLE 3-HEAD RECESSED LIGHT FIXTURE
	ADJUSTABLE RECESSED LIGHT FIXTURE
	EMERGENCY ADJUSTABLE RECESSED LIGHT FIXTURE
	RECESSED DOWNLIGHT FIXTURE
	EMERGENCY RECESSED DOWNLIGHT FIXTURE
	WALL WASH RECESSED LIGHT FIXTURE
	EMERGENCY WALL WASH RECESSED LIGHT FIXTURE
	SURFACE DOWNLIGHT FIXTURE
	EMERGENCY SURFACE DOWNLIGHT FIXTURE
	IN-GRADE LIGHT FIXTURE
	EMERGENCY IN-GRADE LIGHT FIXTURE
	PENDANT LIGHT FIXTURE
	EMERGENCY PENDANT LIGHT FIXTURE
	WALL MOUNT LIGHT FIXTURE
	EMERGENCY WALL MOUNT LIGHT FIXTURE
	EMERGENCY EXTERIOR WALL MOUNT LIGHT FIXTURE
	EXTERIOR POLE MOUNTED LIGHT FIXTURE
	EXTERIOR POST TOP ROUND LIGHT FIXTURE
	EXTERIOR POST TOP SQUARE LIGHT FIXTURE



POWER DEVICES	
	SINGLE RECEPTACLE [+18"]
	DUPLEX RECEPTACLE [+18"]
	DUPLEX RECEPTACLE [ABOVE COUNTER]
	HALF-SWITCHED RECEPTACLE [+18"]
	OCCUPANCY SENSOR CONTROLLED DUPLEX RECEPTACLE [+18"]
	OCCUPANCY SENSOR CONTROLLED DUPLEX RECEPTACLE [ABOVE COUNTER]
	DOUBLE DUPLEX RECEPTACLE [+18"]
	DOUBLE DUPLEX RECEPTACLE [ABOVE COUNTER]
	HALF-SWITCHED DOUBLE DUPLEX RECEPTACLE [+18"]
	ISOLATED DOUBLE DUPLEX RECEPTACLE [+18"]
	DUPLEX RECEPTACLE IN CEILING
	DOUBLE DUPLEX RECEPTACLE IN CEILING
	SPECIAL PURPOSE POWER RECEPTACLE IN CEILING
	SPECIAL PURPOSE POWER RECEPTACLE [+18"]
	COMBINATION POWER/DATA/TELE FLUSH FLOOR BOX
	FLUSH DUPLEX RECEPTACLE FLOOR BOX
	ELECTRICAL EQUIPMENT CONNECTION
	ELECTRICAL MOTOR CONNECTION
	SINGLE-POINT ELECTRICAL CONNECTION
	EMERGENCY POWER OFF
	PUSH BUTTON CONTROL [+45°]
	UP/DOWN/STOP PUSH BUTTON CONTROL [+45°]
	SAFETY SWITCH
	FUSED SAFETY SWITCH
	MAGNETIC STARTER
	JUNCTION BOX [+18"]
	EMERGENCY POWER JUNCTION BOX [+18"]
	JUNCTION FLOOR BOX
	SURFACE MOUNT WIREWAY
	FLUSH AUTOMATIC DOOR ACTUATOR [+45°]

DISTRIBUTION & EQUIPMENT	
	FLUSH ELECTRICAL PANEL [MAX 6'-6" TO TOP] FOR RESIDENTIAL PROJECTS [48" TO TOP] FLUSH CONTROL PANEL [MAX 6'-6" TO TOP]
	SURFACE ELECTRICAL PANEL [MAX 6'-6" TO TOP] FOR RESIDENTIAL PROJECTS [48" TO TOP] SURFACE CONTROL PANEL [MAX 6'-6" TO TOP]

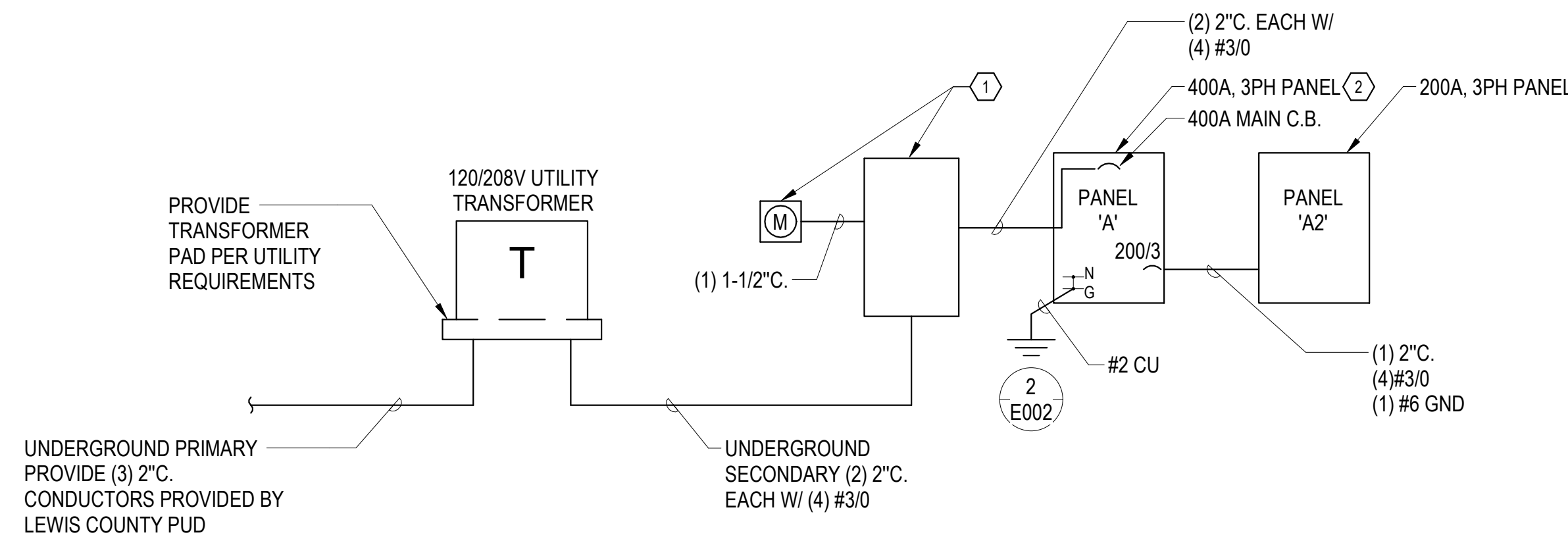
REFERENCE SYMBOLS & WIRING	
	CONDUIT WITH GROUND CONDUCTOR
	NEUTRAL CONDUCTOR
	PHASE CONDUCTOR
	HOMERUN ARROW
	SHEET REFERENCE MARK
	PLAN NOTE MARK
	MECHANICAL EQUIPMENT NOTE MARK
	FEEDER MARK
[+XX"]	STANDARD MOUNTING HEIGHT UNLESS OTHERWISE NOTED ON DWGS

NOTE: NOT ALL SYMBOLS MAY BE USED.

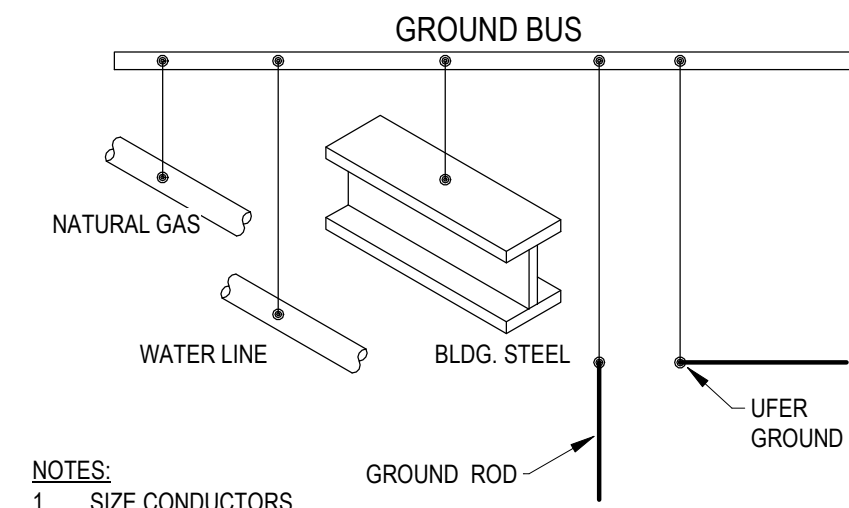
12/20/2023 3:07:49 PM

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6915 SW Macadam Ave.
Suite #200
Portland, Oregon, 97219
Phone: (503) 892-1188
Fax: (503) 892-1190
Contact: **Kori Hansen**
Since 1979





1 ONE- LINE DIAGRAM
120/208V, 3 PH, 4W



- NOTES:
1. SIZE CONDUCTORS PER NEC 250.
 2. CONDUCTORS TO BE COPPER.

2 SERVICE GROUNDING DETAIL
N.T.S.

GENERAL NOTES

1. ELECTRICAL DISTRIBUTION SYSTEM IS A "FULLY RATED" SYSTEM.
2. ELECTRICAL DISTRIBUTION SYSTEM EQUIPMENT SHALL MEET OR EXCEED 3-PHASE SYMMETRICAL FAULT CURRENT.
3. FEEDERS SERVING BRANCH CIRCUIT PANELS ARE SIZED SO THE VOLTAGE DROP ON THE FEEDER DOES NOT EXCEED 2%. FEEDERS AND BRANCH CIRCUITS ARE SIZED SO THE OVERALL VOLTAGE DROP TO CONNECTED LOADS DOES NOT EXCEED 5%. REFER TO PROJECT SPECIFICATIONS SECTION 26 05 19 FOR ADDITIONAL REQUIREMENTS TO ASSURE NEC VOLTAGE DROP REQUIREMENTS ARE ACHIEVED.

KEYNOTES

1. PROVIDE 120/208V, 400A, 3PH CT CAN AND ASSOCIATED METER SOCKET PER UTILITY REQUIREMENTS.
2. PROVIDE NEMA 3R, SERVICE ENTRANCE RATED PANELBOARD.

TIMBERLAND REGIONAL LIBRARY DIST.
MOUNTAIN VIEW LIBRARY
10111 US HIGHWAY 12, WHITE PASS
RANDLE, WA 98377

**ELECTRICAL
ONE-LINE
DIAGRAM**

PROJECT # 22048
DATE 12/27/2023

REV #	DATE	DESCRIPTION



12/27/2023

MKE
MKE & ASSOCIATES, INC.
CONSULTING ENGINEERS

6915 SW Macadam Ave.
Suite #200
Portland, Oregon, 97219
Phone: (503) 892-1188
Fax: (503) 892-1190
Contact: Kori Hansen
Since 1979

E002

BID SET

Service Branch Panel

PANEL: A
FED BY: UTILITY CT CAN
LOC: 120Y/208V,30,4W

MKE & ASSOCIATES, INC.

VOLTS: 120Y/208V,30,4W
PHASE: 3
WIRE: 4

MOUNTING: SURFACE
BUS/MAIN: 400 MCB

C	DESCRIPTION	A	P	No.	A	B	C	A	B	C	No.	P	A	DESCRIPTION	C
3	EDH-1	20	2	1	2715			--			2	1	--	SPACE	--
--	--	--	--	3		2715			--		4	1	--	--	--
6	HP-2	20	2	5			3744				6	1	--	--	--
--	--	--	--	7	3744			15931			8	3	225	PANEL A2	Spare:...
6	HP-1	20	2	9		3744			12757		10	--	--	--	--
--	--	--	--	11			3744			10671	12	--	--	--	--

LOAD CODE	TOTAL (VA)	FACTOR	CODE LOAD	PANEL TOTALS
1 LIGHTS:	3607 VA	125.00%	4509 VA	59764 TOTAL LOAD (VA)
2 RECEPTACLE: *	8280 VA	100.00%	8280 VA	68010 TOTAL DEMAND (VA)
3 HEATING:	21889 VA	125.00%	27361 VA	165.9 TOTAL LOAD (A)
4 KITCHEN:	0 VA	0.00%	0 VA	188.8 CODE DEMAND (A)
5 EQUIPMENT:	7500 VA	100.00%	7500 VA	
6 MOTORS: **	18488 VA	110.13%	20360 VA	
7 MISC:	0 VA	0.00%	0 VA	

Notes:
* FIRST 10 KVA +50% OF THE BALANCE
** 125% OF THE LARGEST MOTOR + THE BALANCE

EMERGENCY INVERTER SCHEDULE (EI)

Circuit	AREA SERVED	FIXTURE TYPE	VA	QTY	LOAD
1	30" DIAMETER DIRECT ONLY RING PENDANT	A3E	52	3	156
1	HEXAGON PENDANT MOUNT FIXTURE	B2E	89	1	89
1	48" LINEAR UP/DOWN PENDANT	H2E	22	1	22
1	EXIT SIGN	X1/X2	1	6	6
Circuit Total					273
2	12" HEAVY DUTY ARM MOUNTED FIXTURES	SAE	18	5	90
Circuit Total					90

NOTES: BASIS OF DESIGN: 1VA=1W (1.0 PF)	TOTAL LOAD
	363
	INVERTER SIZE (VA)
	550
	PERCENTAGE LOADED
	66.0%

Branch Panel

PANEL: A2
FED BY: A
LOC: IT/ELECT/MECH 108

MKE & ASSOCIATES, INC.

VOLTS: 120Y/208V,30,4W
PHASE: 3
WIRE: 4

MOUNTING: SURFACE
BUS/MAIN: 225 MLO

C	DESCRIPTION	A	P	No.	A	B	C	A	B	C	No.	P	A	DESCRIPTION	C
1	LTS - MIDDLE SECTION	20	1	1	764			369			2	1	20	LTS - EXTERIOR	1
6	CEILING FANS	20	1	3		100			997		4	1	20	LTS - NORTH SOUTH AND EAST	1
2	REC - DATA RACK	20	1	5			360				6	1	20	LTS - LEVEL 1 RECEPTION/OFFICE/BATHROOM/STOR	1
6	FC-2	20	2	7	583			583			8	2	20	FC-1	6
--	--	--	--	9		583			583		10	--	--	--	--
6	ERV-1	20	2	11			541				12	1	20	REC - MEZZANINE LEVEL	2
--	--	--	--	13	541			1250			14	3	20	RH-1	3
3	RH-2	20	3	15		1250			1250		16	--	--	--	--
--	--	--	--	17			1250			1250	18	--	--	--	--
--	--	--	--	19	1250			1250			20	3	20	RH-3	3
3	RH-4	20	3	21		1250			1250		22	--	--	--	--
--	--	--	--	23			1250			1250	24	--	--	--	--
--	--	--	--	25	1250			360			26	1	20	REC - EXTERIOR	2
2	REC - FLEX SPACE	20	1	27		720			720		28	1	20	REC - CHILDREN'S AREA	2
2	REC - TEEN AREA	20	1	29			900			360	30	1	20	REC - IT/ELECT/MECH	2
2	REC - RECEPTION	20	1	31	540			540			32	1	20	REC - 3 SEASONS	2
2	REC - MAIN LIBRARY AREA	20	1	33		720			75		34	1	20	LTS - 3 SEASONS	1;6
2	REC - FRONT DESK	20	1	35			540			0	36	2	40	PROVISIONS FOR FUTURE EV CHARGING	5
2	REC - OFFICE	20	1	37	540			0			38	--	--	--	--
2	REC - WORK/STOR, BATHROOMS	20	1	39		1080			0		40	2	40	PROVISIONS FOR FUTURE EV CHARGING	5
3	ELECTRIC FIREPLACE	20	1	41			1460			0	42	--	--	--	--
1	LTS - MEZZANINE AREA	20	1	43	112			4500			44	1	50	WH-1	5
1	EMERGENCY INVERTER 'EI'	20	1	45			500			180	46	1	20	WATER FOUNTAIN (NOTE 1)	2
1	LIGHTING RELAY PANEL 'LRP'	20	1	47			500			0	48	1	20	SPARE	--
5	SEPTIC SYSTEM CONNECTION	20	1	49	1500			0			50	1	20	SPARE	--
5	SEPTIC SYSTEM CONNECTION	20	1	51		1500			0		52	1	20	SPARE	--
--	SPARE	20	1	53			0			0	54	1	20	SPARE	--
--	SPARE	20	1	55	0			--			56	1	--	SPACE FOR FUTURE SOLAR	--
--	SPARE	20	1	57		0		--			58	1	--	--	--
--	SPARE	20	1	59			0			--	60	1	--	--	--

LOAD CODE	TOTAL (VA)	FACTOR	CODE LOAD	PANEL TOTALS
1 LIGHTS:	3607 VA	125.00%	4509 VA	39359 TOTAL LOAD (VA)
2 RECEPTACLE: *	8280 VA	100.00%	8280 VA	44667 TOTAL DEMAND (VA)
3 HEATING:	16460 VA	125.00%	20575 VA	109.2 TOTAL LOAD (A)
4 KITCHEN:	0 VA	0.00%	0 VA	124 CODE DEMAND (A)
5 EQUIPMENT:	7500 VA	100.00%	7500 VA	
6 MOTORS: **	3512 VA	108.29%	3803 VA	
7 MISC:	0 VA	0.00%	0 VA	

Notes: 1. GFCI CIRCUIT BREAKER
* FIRST 10 KVA +50% OF THE BALANCE
** 125% OF THE LARGEST MOTOR + THE BALANCE

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**ELECTRICAL
SCHEDULES**

PROJECT # 22048
DATE 12/27/2023

REV #	DATE	DESCRIPTION



12/27/2023

MKE & ASSOCIATES, INC.
CONSULTING ENGINEERS

6915 SW Macadam Ave.
Suite #200
Portland, Oregon, 97219
Phone: (503) 892-1188
Fax: (503) 892-1190
Contact: Kori Hansen
Since 1979

E011

BID SET

LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	CATALOG #	LOAD (VA)	Comments
A1	LED 60" DIAMETER DIRECT/INDIRECT PENDANT MOUNTED RING	AXIS LIGHTING	SKPE-10005-SL-60/40-CIR-1000-80-35-SO-W-UNV-DP-1-XX	165	
A2	SAME AS TYPE 'A1' EXCEPT 30" DIAMETER	AXIS LIGHTING	SKPE-10003-SL-60/40-CIR-1000-80-35-SO-W-UNV-DP-1-XX	75	
A3	SAME AS TYPE 'A2' EXCEPT ONLY DIRECT	AXIS LIGHTING	SKPE-10003-SL-0/100-CIR-500-80-35-SO-W-UNV-DP-1-XX	52	
A3E	SAME AS TYPE 'A3' EXCEPT EMERGENCY LIGHT	AXIS LIGHTING	SKPE-10003-SL-0/100-CIR-500-80-35-SO-W-UNV-DP-1-XX	52	
B1	SQUARE LED UP/DOWN LIGHT FIXTURE	AXIS LIGHTING	TB3DILEDPAT-S(4)-500-500-80-35-SO-EX-W-UNV-DP-1-XX	30	
B2	HEXAGON LED UP/DOWN LIGHT FIXTURE	AXIS LIGHTING	TB3DILEDPAT-FF(12)-HEXAGON-OPR(120)-500-500-80-35-BW-SO-W-UNV-DP-1-XX	89	
B2E	SAME AS TYPE 'B2' EXCEPT EMERGENCY LIGHT	AXIS LIGHTING	TB3DILEDPAT-FF(12)-HEXAGON-OPR(120)-500-500-80-35-BW-SO-W-UNV-DP-1-XX	89	
C	6" LED SWITCHABLE WHITE DOWNLIGHT	JUNO	WF6 SWW5 (3500K) 90CRI MB M6	13	
D	24" LED SQUARE VANITY LIGHT	LITHONIA	FMVTL 24IN MVOLT 30K 90CRI BN	26	OXYGEN FUSE SERIES, OR APPROVED EQUAL
F	48" LED STRIP LIGHT	LITHONIA	CSS L48 ALO3(3000LM) MVOLT 35K 80CRI	28	COOPER METALUX SNX SERIES, OR APPROVED EQUAL
G	48" LED LINEAR LOW PROFILE WRAPAROUND FIXTURE	LITHONIA	FMLWL 48 8 35 ZT MVOLT	42	COOPER METALUX NWS SERIES, OR APPROVED EQUAL
GE	SAME AS TYPE 'G' EXCEPT EMERGENCY LIGHT	LITHONIA	FMLWL 48 8 35 ZT MVOLT	42	COOPER METALUX NWS SERIES, OR APPROVED EQUAL
H1	SQUARE LED SURFACE MOUNTED LIGHT FIXTURE	AXIS LIGHTING	TB2SLEDPAT-S(4)-300-80-35-BW-SO-EX-W-UNV-DP-1-XX	22	
H2	SAME AS TYPE 'H1' EXCEPT 48" LINEAR	AXIS LIGHTING	TB2SLED-300-80-35-SO-4-W-UNV-DP-1-XX	22	
H2E	SAME AS TYPE 'H2' EXCEPT EMERGENCY	AXIS LIGHTING	TB2LED-300-80-35-SO-4-W-UNV-DP-1-XX	22	
K	3 ARCS EACH FROM 150" DIAMETER RING SECTION ONLY DOWNLIGHT	AXIS LIGHTING	SKPE-10013-SL-0/100-ARC-400-80-35-SO-W-UNV-DP-1-XX	51	
L	3 ARCS EACH FROM 150" DIAMETER RING SECTION W/ UP AND DOWNLIGHT	AXIS LIGHTING	SKPE-10013-SL-60/40-ARC-1000-80-35-SO-W-UNV-DP-1-XX	102	
M	LED LINEAR LOW PROFILE COVE LIGHT 4' OR 2' AS NECESSARY TO ACCOPLISH 62'	INSIGHT LIGHTING	PCM-5-35K-ASYU-SM-12 OR 48-UNV-DIM-MG (7 WATTS/FOOT)	945	PRUDENTIAL LIGHTING PRUCOVE SERIES, OR APPROVED EQUAL
N	LED SURFACE MOUNTED SHALLOW PROFILE FIXTURE	BEGA	33680+K35	15	PERFORMANCE IN LIGHTING BLIZ ROUND SERIES, OR APPROVED EQUAL
SA	12" LED HEAVY DUTY ARM MOUNTED FIXTURE	RLM	RH12 LED1835 MB FGG	18	LURALINE RLM SERIES, OR APPROVED EQUAL
SAE	SAME AS TYPE 'SA' EXCEPT EMERGENCY	RLM	RH12 LED1835 MB FGG	18	LURALINE RLM SERIES, OR APPROVED EQUAL
SB	LED WEDGE WALL SCONCE	LITHONIA	WDGE2 LED P4 35K 80CRI VW MVOLT SRM DBLXD	35	PERFORMANCE IN LIGHTING SHIELD+2 SERIES, OR APPROVED EQUAL
X1	LED RED EXIT SIGN CEILING MOUNTED SINGLE/DOUBLE SIDED SHOWN ON PLANS	LITHONIA	LQC W 1/2 R	1	EMERGI-LITE PRESTIGE SERIES, OR APPROVED EQUAL
X2	LED RED EXIT SIGN WALL MOUNTED SINGLE SIDED	LITHONIA	LQC W 1 R	1	EMERGI-LITE PRESTIGE SERIES, OR APPROVED EQUAL

NOTE: LIGHT FIXTURE SUBSTITUTIONS MAY BE SUBMITTED FOR REVIEW PER PROJECT SPECIFICATIONS.

MECHANICAL EQUIPMENT SCHEDULE

TAG	NUMBER	DESCRIPTION	VOLTAGE (V)	PHASE	LOAD (VA)	HP	MCA	FEEDER (CU)	PANEL	CIRCUIT	COMMENTS
CF	1	CEILING FAN	120	1	50 VA		0.5	(2) #12, (1) #12 GND	A2	3	
CF	2	CEILING FAN	120	1	50 VA		0.5	(2) #12, (1) #12 GND	A2	3	
EDH	1	ELECTRIC DUCT HEATER	208	1	5429 VA		26.1	(2) #10, (1) #10 GND	A	1,3	
ERV	1	ENERGY RECOVERY VENTILATOR	208	1	1082 VA		5.2	(2) #12, (1) #12 GND	A2	11,13	
FC	1	FAN COIL	208	1	1165 VA		5.6	(2) #12, (1) #12 GND	A2	8,10	
FC	2	FAN COIL	208	1	1165 VA		5.6	(2) #12, (1) #12 GND	A2	7,9	
HP	1	HEAT PUMP	208	1	7488 VA		36	(2) #8, (1) #10 GND	A	9,11	
HP	2	HEAT PUMP	208	1	7488 VA		36	(2) #8, (1) #10 GND	A	5,7	
RH	1	RADIANT HEATER	208	3	3750 VA		10.5	(3) #12, (1) #12 GND	A2	14,16,18	
RH	2	RADIANT HEATER	208	3	3750 VA		10.5	(3) #12, (1) #12 GND	A2	15,17,19	
RH	3	RADIANT HEATER	208	3	3750 VA		10.5	(3) #12, (1) #12 GND	A2	20,22,24	
RH	4	RADIANT HEATER	208	3	3750 VA		10.5	(3) #12, (1) #12 GND	A2	21,23,25	
WH	1	ELECTRIC WATER HEATER	120	1	4500 VA		38	(2) #8, (1) #10 GND	A2	44	

RELAY CONTROL PANEL						
PANEL #:			LRP		MOUNTING: SURFACE	
LOCATION:			IT/ELECT/MECH		# OF RELAYS: 32	
RELAY #	VOLTAGE	DIM/NON-DIM	PANEL	CIRCUIT	AREA CONTROLLED	NOTES
R1	120				SPARE	
R2	120	DIM	A2	6	WORK/STOR	3,4
R3	120	DIM	A2	6	OFFICE	3,4
R4	120	DIM	A2	6	RECEPTION	3,4
R5	120	DIM	A2	4	SOUTHEAST CORNER (RING)	3,4
R6	120	DIM	A2	4	NORTHWEST CORNER (3 ARC)	3,4
R7	120	DIM	A2	4	TEEN (ARC)	4
R8	120	DIM	A2	3	SOUTH & WEST EDGE OF PITCHED ROOF	3,4
R9	120	DIM	A2	3	NORTH & WEST EDGE OF PITCHED ROOF	3,4
R10	120	DIM	A2	3	MIDDLE OF LIBRARY	3,4
R11	120	DIM	A2	3	CHILDRENS AREA	3,4
R12	120	DIM	A2	3	TEEN (RING)	3,4
R13	120	DIM	A2	3	NORTH END OF LIBRARY (SQUARE)	3,4
R14	120	DIM	A2	34	3 SEASON AREA	3,4
R15	120	DIM	A2	4	UPLIGHTS	4
R16	120	DIM	A2	4	ALCOVE UPLIGHTS	4
R17	120	NON-DIM	A2	2	EXTERIOR LIGHTS	2
R18	120				SPARE	
R19	120				SPARE	
R20	120				SPARE	
EMERGENCY RELAYS						
RE1	120	NON-DIM	EI	1	IT/ELECT/MECH AREA	1
RE2	120	DIM	EI	1	WORK/STOR	4
RE3	120	DIM	EI	1	RECEPTION	3,4
RE4	120	DIM	EI	1	SOUTHEAST CORNER (RING)	3,4
RE5	120	DIM	EI	1	MAIN ENTRANCE	3,4
RE6	120	DIM	EI	1	BACK ENTRANCE	4
RE7	120	DIM	EI	1	CHILDRENS AREA (HEX)	3,4
RE8	120	NON-DIM	EI	2	EXTERIOR ENTRANCES/EXITS	2
RE9	120				SPARE	
RE10	120				SPARE	
RE11	120				SPARE	
RE12	120				SPARE	

NOTES:
1. NOT CONTROLLED BY TIME CLOCK
2. BUILDING EXTERIOR LIGHTS OFF BY TIME CLOCK AND PHOTOCCELL
3. LIGHTS DIMMER CONTROL BY DAYLIGHT SENSORS
4. LIGHTS DIMMER/ON/OFF CONTROL BY SWITCH
5. PROVIDE BARRIER BETWEEN NORMAL AND EMERGENCY POWER RELAYS
6. UL 624 LISTED EMERGENCY RELAYS SHALL DEFAULT TO 'FULL ON' UPON LOSS OF NORMAL POWER

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ELECTRICAL SCHEDULES

PROJECT # 22048
DATE 12/27/2023

REV #	DATE	DESCRIPTION



12/27/2023



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Suite #200
Portland, Oregon, 97219
Phone: (503) 892-1188
Fax: (503) 892-1190
Contact: Kori Hansen
Since 1979

E012

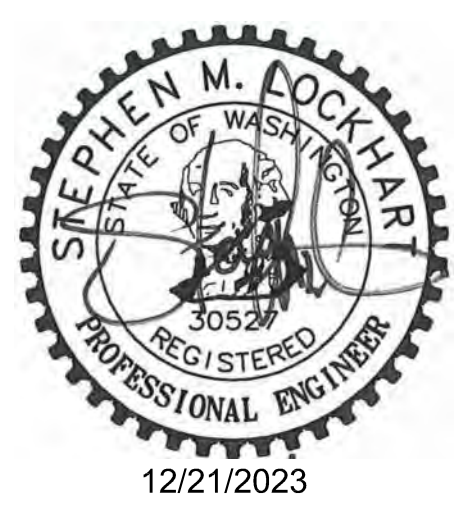
BID SET

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ELECTRICAL SITE PLAN

PROJECT # 22048
DATE 12/21/2023

REV #	DATE	DESCRIPTION



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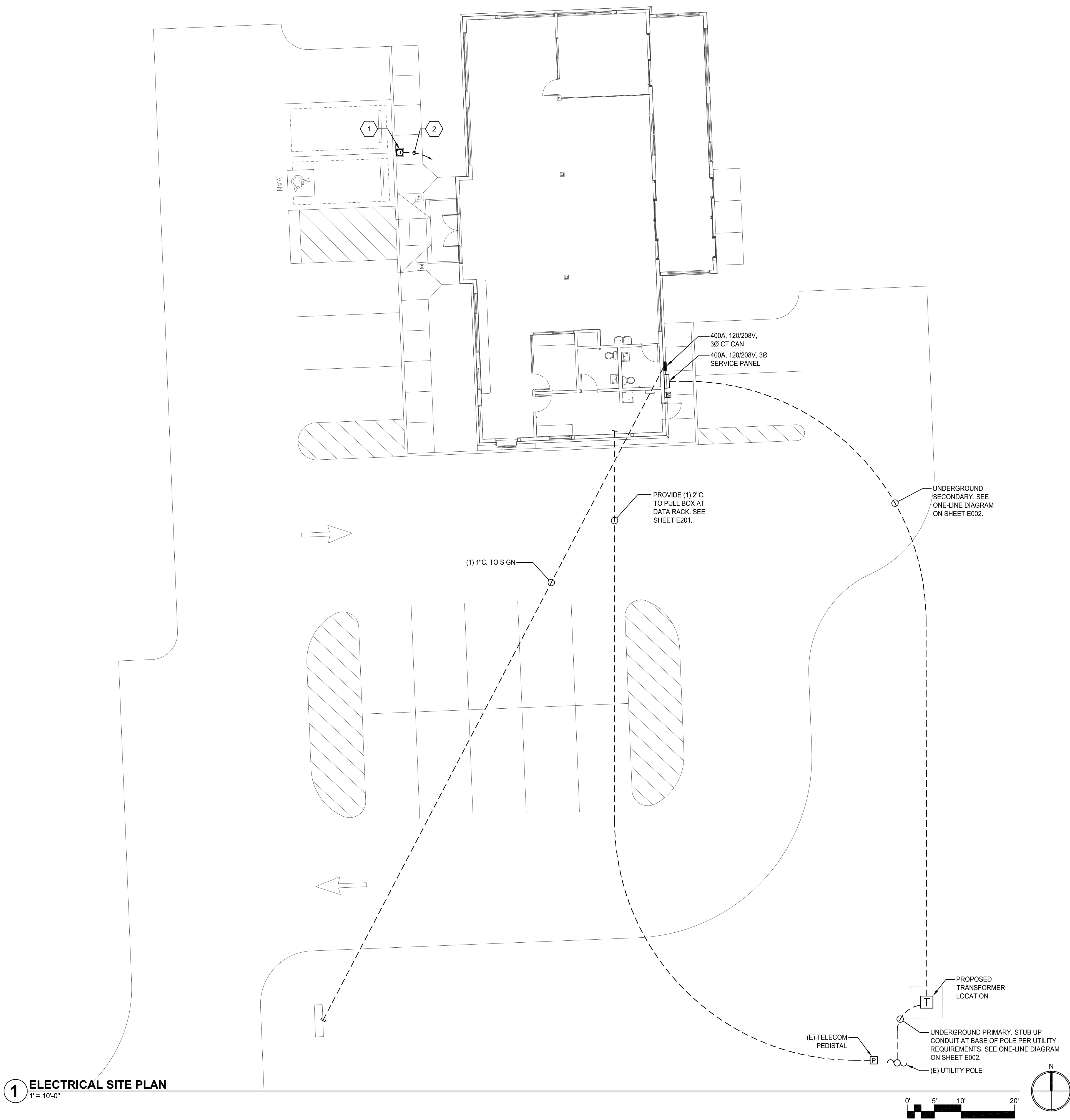
E101
BID SET

GENERAL NOTES:

- UNDERGROUND ELECTRICAL POWER CONDUIT SHALL BE MINIMUM 36" DEEP BURY. LOW VOLTAGE CONDUIT SHALL BE MINIMUM 24" DEEP BURY. USE MINIMUM 36" RADIUS ELLS FOR BENDS.
- REFER TO AND COORDINATE WITH ARCHITECTURAL, CIVIL AND LANDSCAPE DRAWINGS TO AVOID CONFLICTS WITH EXISTING UNDERGROUND AND OVERHEAD UTILITIES, INCLUDING BUT NOT LIMITED TO POWER, TELECOMMUNICATIONS, WATER AND SEWER.
- UNDERGROUND PVC CONDUIT SHALL BE TRANSITIONED TO GRC PRIOR TO BEING EXPOSED ABOVE GROUND.
- COORDINATE EXCAVATION AND PAVEMENT CUTS WITH ARCHITECTURAL AND CIVIL DRAWINGS AND OWNER PRIOR TO CONSTRUCTION.
- TRENCHED AREAS SHALL BE FULLY RESTORED TO PRE-PROJECT CONDITIONS OR BETTER.
- PROVIDE PULL STRING IN EMPTY CONDUIT.
- COORDINATE POWER UTILITY WORK WITH LEWIS COUNTY PUD. CONTACT: JOE ASH, JOEA@LCPUD.ORG.
- COORDINATED COMMUNICATION UTILITY WORK WITH FATBEAM. CONTACT: STACY@FATBEAM.COM, 208-758-7017.

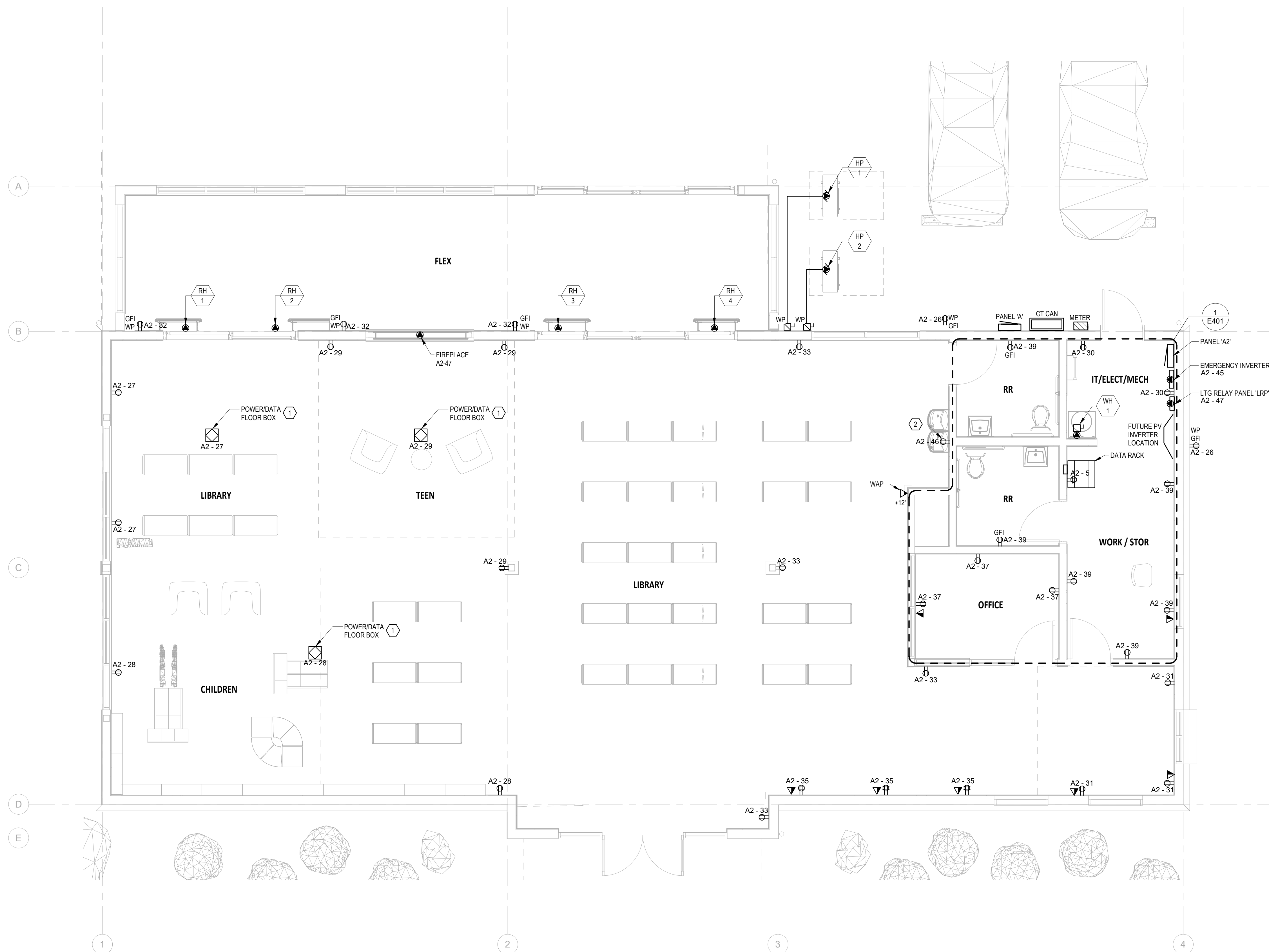
KEYED NOTES:

- PROVIDE 15"X10"X12" DEEP REINFORCED CONCRETE JUNCTION BOX FOR FUTURE VEHICLE CHARGING UNIT. ENGRAVE LABEL: "FUT EV" CHRISTY N09-R SERIES LID, OR APPROVED EQUAL.
- PROVIDE (1) 1-1/2" C. FROM PANEL 'A2' STUBBED UP IN BASE OF VAULT FOR FUTURE EV CHARGING CIRCUIT.



1 ELECTRICAL SITE PLAN
1" = 10'-0"

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GENERAL NOTES

- ELECTRICAL CONDUITS SHALL BE EITHER CONCEALED IN THE ROOM CEILING, WALLS, OR FLOOR. NO EXPOSED CONDUIT ALLOWED WITHOUT PRIOR APPROVAL OF ARCHITECT. FLEX CONDUIT ALLOWED ONLY WITH PRIOR APPROVAL OF ARCHITECT OR ENGINEER OF RECORD.
- COORDINATE EXACT LOCATION OF POWER, LOW VOLTAGE AND EQUIPMENT CONNECTIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS PRIOR TO ROUGH-IN.
- COORDINATE DESIGNATIONS "TIC MARKS" MAY NOT APPEAR ON THIS DRAWING. CONDUCTORS SHALL BE PROVIDED AS NECESSARY TO ACCOMPLISH THE INTENT OF THE CIRCUITING.
- SEE E011 FOR MECHANICAL EQUIPMENT SCHEDULE.

KEYNOTES

- PROVIDE COMBINATION POWER/DATA FLOOR BOX RATED FOR CONCRETE POUR. CAST ALUMINUM HOUSING AND ACTIVATION LID. BRUSHED ALUMINUM FINISH TRIM PLATE SUITABLE FOR FLOOR TYPE. COORDINATE WITH ARCHITECTURAL FINISH PLANS. PROVIDE WITH (2) DUPLEX RECEPTACLES AND (2) TERMINATED CAT 6 DATA CABLES. PROVIDE DECORA STYLE TRIM PLATES. LEGRAND WIREMOLD RFB4-CI-NA SERIES OR APPROVED EQUAL. ROUTE POWER CIRCUIT TO NEAREST RECEPTACLE OF SAME CIRCUIT NUMBER VIA 3/4" C. PROVIDE (1) 1" C. FROM FLOOR BOX TO MECHANICAL MEZZANINE.
- DEDICATED RECEPTACLE/CIRCUIT FOR DRINKING FOUNTAIN. CONNECT TO GFCI TYPE CIRCUIT BREAKER. VERIFY EXACT LOCATION WITH DRINKING FOUNTAIN INSTALLER PRIOR TO ROUGH-IN.

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POWER AND SIGNAL PLAN - LEVEL 1

PROJECT # 22048
DATE 12/27/2023

REV #	DATE	DESCRIPTION

1 ELECTRICAL POWER PLAN
1/4" = 1'-0"



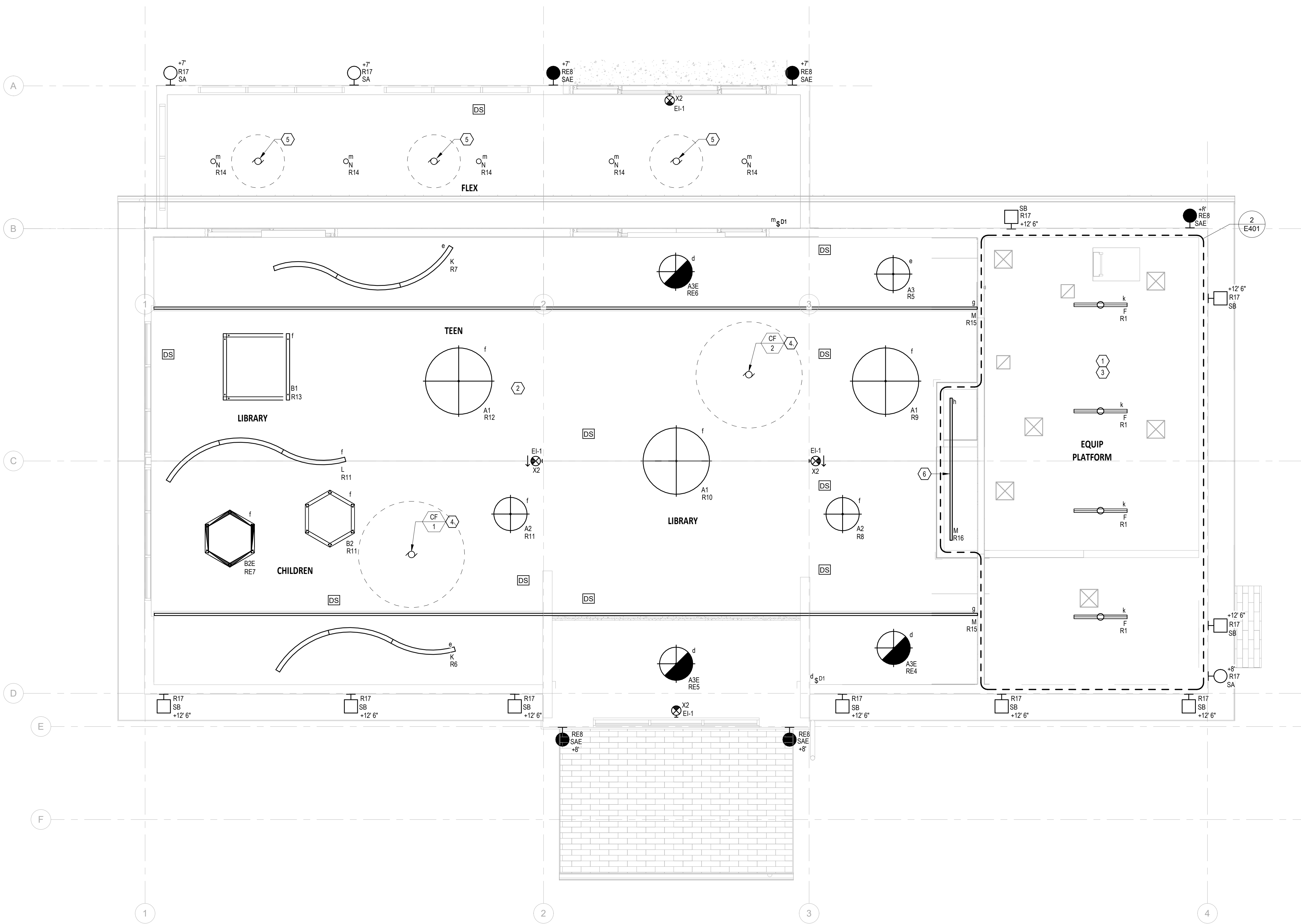
12/27/2023



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E201

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GENERAL NOTES

- FOR LOCATION OF SWITCHES CONTROLLING FIXTURES IN ZONES d, e, f, g, AND h SEE LEVEL 1 ENLARGED LIGHTING PLAN 2/E401.
- SEE RELAY PANEL SCHEDULE ON E011 FOR ELECTRICAL PANEL CIRCUIT NUMBERS.
- EXIT SIGNS SHALL BE CONNECTED TO UNSWITCHED LEG OF EMERGENCY LIGHTING CIRCUIT SERVING DESIGNATED EMERGENCY FIXTURES IN THE SAME AREA.
- ELECTRICAL CONDUITS SHALL BE EITHER CONCEALED IN THE ROOM CEILING, WALLS, OR FLOOR. NO EXPOSED CONDUIT ALLOWED WITHOUT PRIOR APPROVAL OF ARCHITECT. FLEX CONDUIT ALLOWED ONLY WITH PRIOR APPROVAL OF ARCHITECT OR ENGINEER OF RECORD.
- COORDINATE EXACT LOCATION OF LIGHT FIXTURES AND EQUIPMENT WITH ARCHITECTURAL AND MECHANICAL DRAWINGS PRIOR TO ROUGH-IN.
- SEE LIGHTING AND LIGHTING CONTROL PROGRAMMING OPERATION AND DOCUMENTATION NOTES ON E501 FOR ADDITIONAL REQUIREMENTS.
- CONDUCTOR DESIGNATIONS "TIC MARKS" MAY NOT APPEAR ON THIS DRAWING. CONDUCTORS SHALL BE PROVIDED AS NECESSARY TO ACCOMPLISH THE INTENT OF THE CIRCUITING.
- COORDINATE MOUNTING HEIGHT OF EXIT SIGNS WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN.

KEYNOTES

- CONTROLLED BY SWITCH NEXT TO LADDER IN ROOM BELOW. SEE 2/E401.
- PENDANT MOUNT LIGHT FIXTURES SUCH THAT BOTTOM OF FIXTURE IS 12'-0" AFF.
- CHAIN HANG TYPE 'F' FIXTURES AT APPROXIMATELY 8'-0" AFF. COORDINATE EXACT LOCATION WITH MECHANICAL DUCTWORK.
- PROVIDE ELECTRICAL CONNECTION TO CEILING FAN. PROVIDE RACEWAY AND CONDUCTOR NECESSARY FOR CONTROLS PER DIVISION 21.
- PROVIDE 120V ELECTRICAL CONNECTION TO CEILING FAN. COORDINATE CONTROL REQUIREMENTS WITH DIVISION 11.
- MOUNT FIXTURE ABOVE OFFICE CEILING. ORIENT TO UPLIGHT SOUTH WALL.

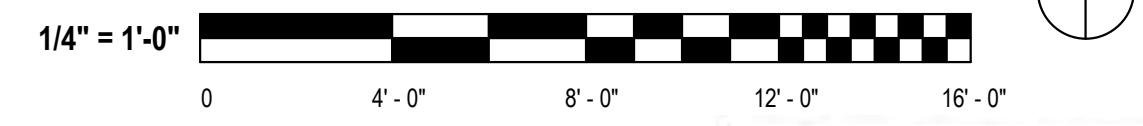
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OVERALL LIGHTING PLAN

PROJECT # 22048
DATE 12/27/2023

REV #	DATE	DESCRIPTION

1 OVERALL LIGHTING PLAN
1/4" = 1'-0"



12/27/2023



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DAYLIGHT ZONE
PLAN - LEVEL 1

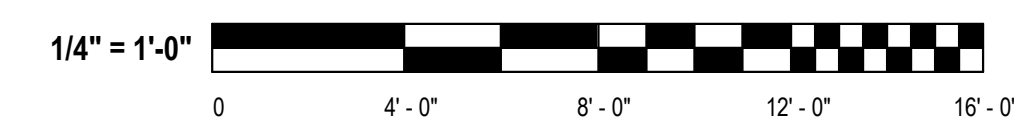
PROJECT # 22048
DATE 12/27/2023

REV #	DATE	DESCRIPTION

1 DAYLIGHTING ZONE PLAN
1/4" = 1'-0"

2 ENLARGED DAYLIGHTING PLAN - LEVEL 1
1/4" = 1'-0"

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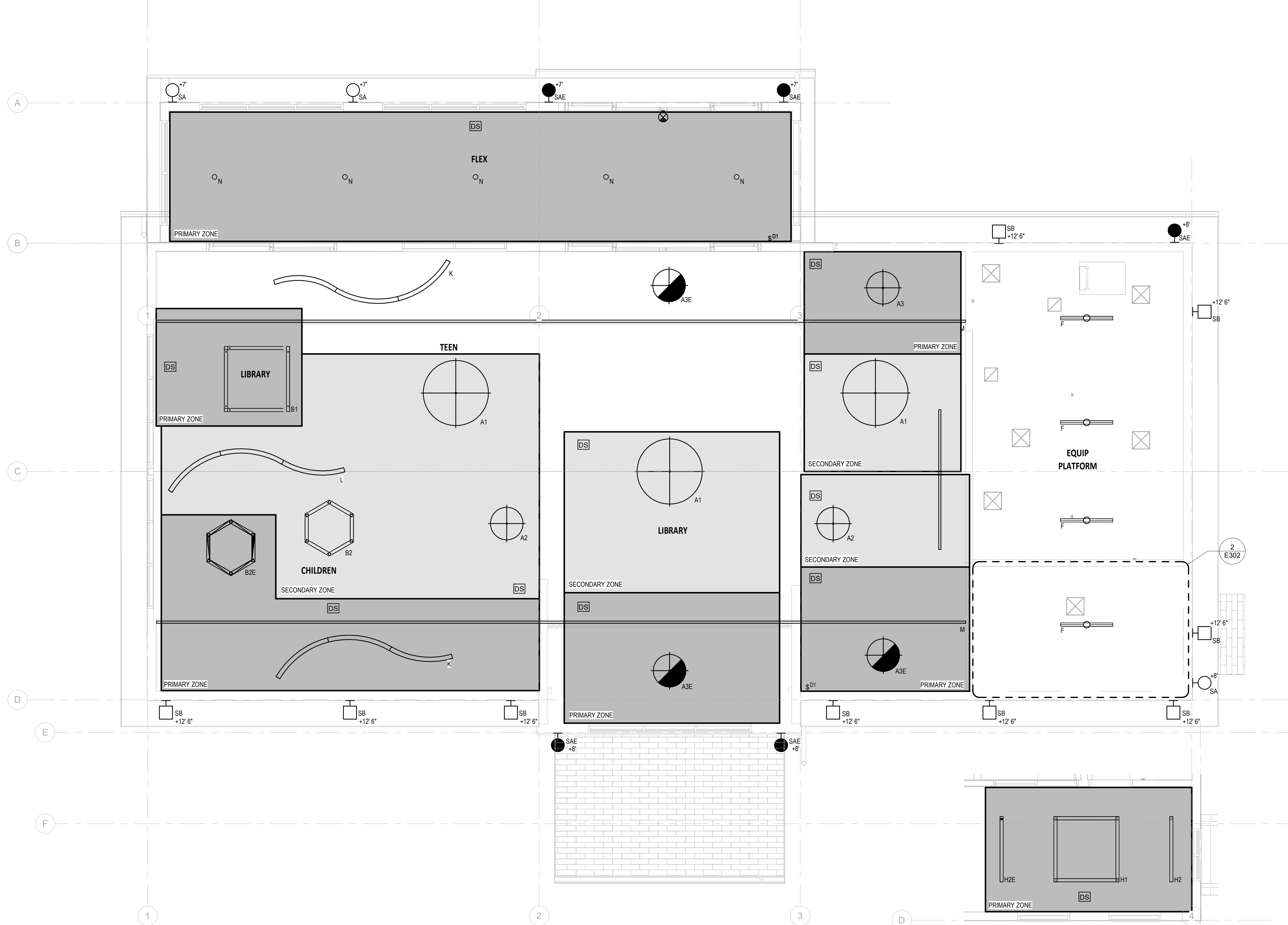


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ENLARGED
ELECTRICAL PLANS

PROJECT # 22048
DATE 12/27/2023

REV #	DATE	DESCRIPTION

E401

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12/27/2023

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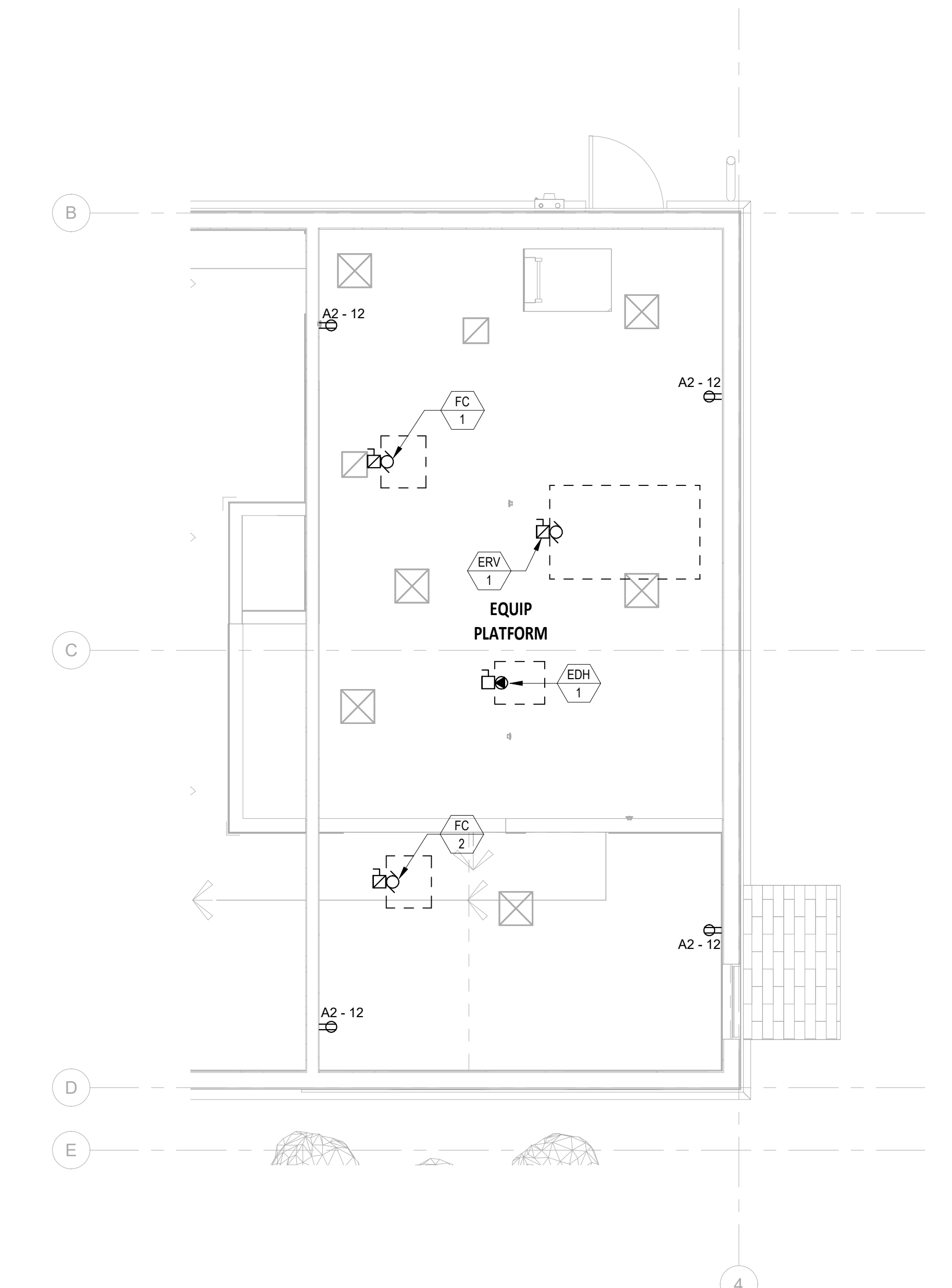


GENERAL NOTES

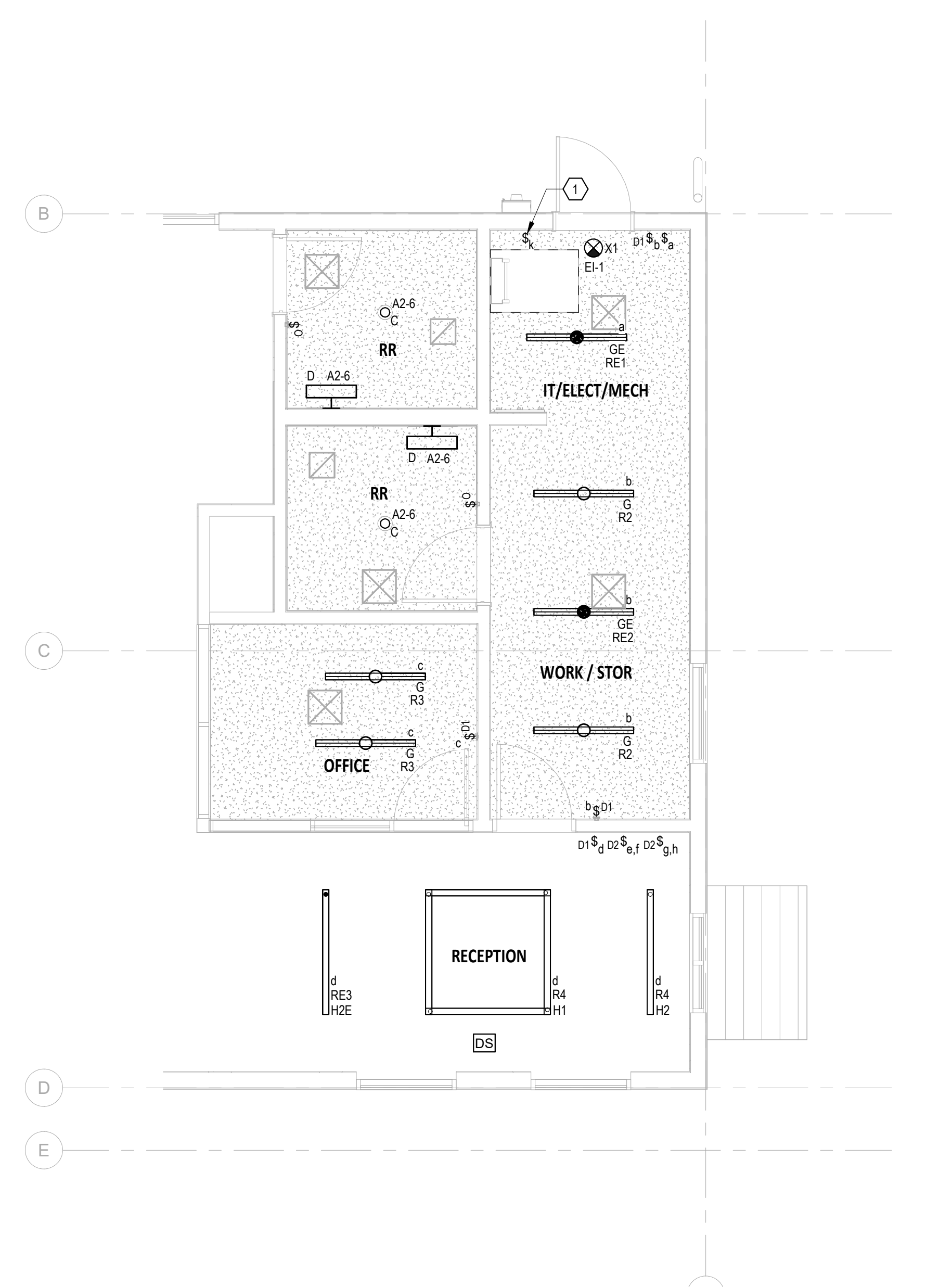
- ELECTRICAL CONDUITS SHALL BE EITHER CONCEALED IN THE ROOM CEILING, WALLS, FLOOR. NO EXPOSED CONDUIT ALLOWED WITHOUT PRIOR APPROVAL OF ARCHITECT. FLEX CONDUIT ALLOWED ONLY WITH PRIOR APPROVAL OF ARCHITECT OR ENGINEER OF RECORD.
- COORDINATE EXACT LOCATION OF POWER, LOW VOLTAGE, EQUIPMENT CONNECTIONS, AND LIGHT FIXTURES WITH ARCHITECTURAL AND MECHANICAL DRAWINGS PRIOR TO ROUGH-IN.
- CONDUCTOR DESIGNATIONS "TIC MARKS" MAY NOT APPEAR ON THIS DRAWING. CONDUCTORS SHALL BE PROVIDED AS NECESSARY TO ACCOMPLISH THE INTENT OF THE CIRCUITING.
- SEE LIGHTING AND LIGHTING CONTROL PROGRAMMING OPERATION AND DOCUMENTATION NOTES ON E501 FOR ADDITIONAL REQUIREMENTS.
- EXIT SIGNS SHALL BE CONNECTED TO UNSWITCHED LEG OF EMERGENCY LIGHTING CIRCUIT SERVING DESIGNATED EMERGENCY FIXTURES IN THE SAME AREA.
- COORDINATE MOUNTING HEIGHT OF EXIT SIGNS WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN
- SEE E011 FOR MECHANICAL EQUIPMENT SCHEDULE.

KEYNOTES

- SWITCH FOR MEZZANINE LIGHTS. SEE E301.



1 ENLARGED POWER PLAN - LEVEL 2
1/4" = 1'-0"

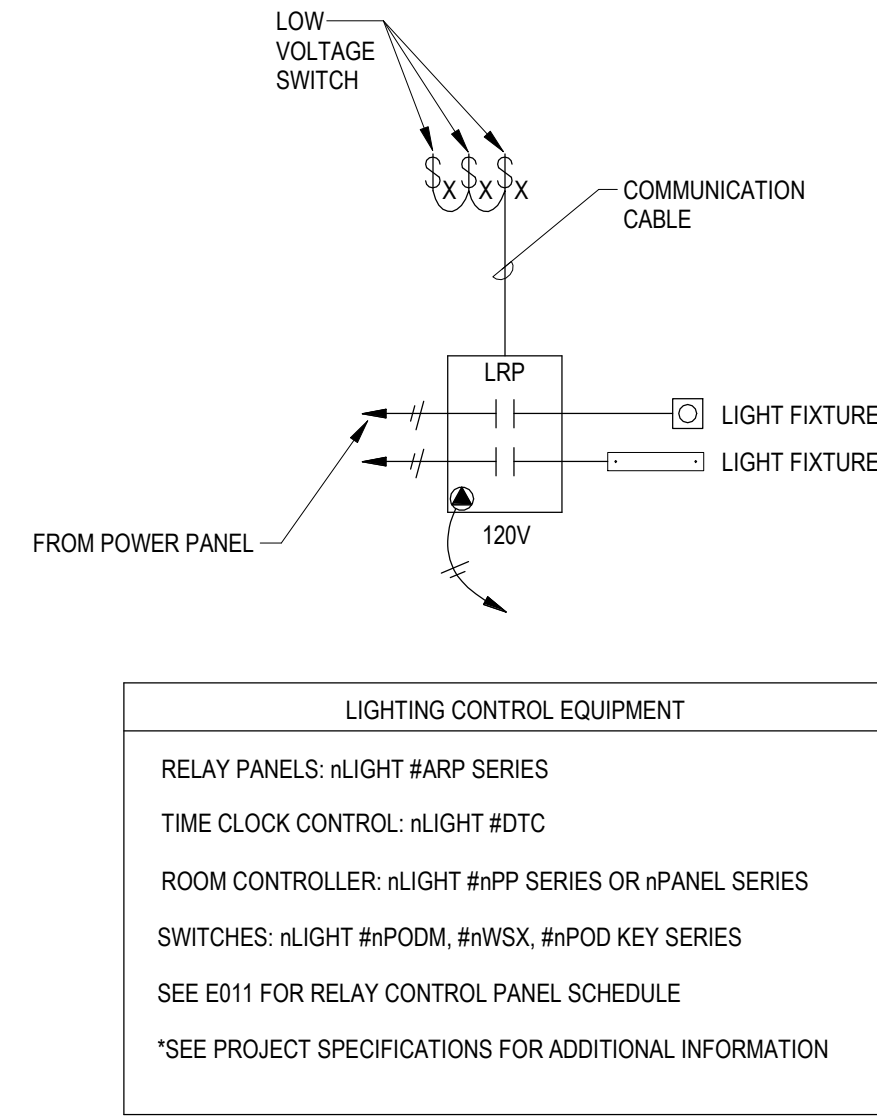


2 ENLARGED LIGHTING PLAN - LEVEL 1
1/4" = 1'-0"

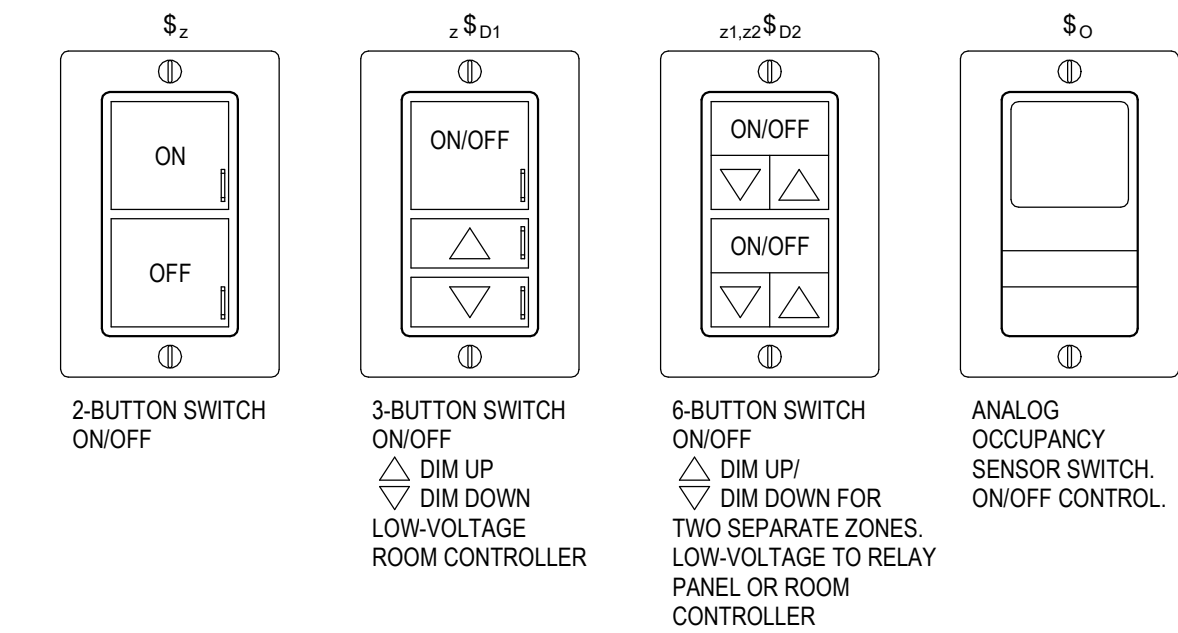


1. PROGRAM USER MANUAL DIMMING CONTROLS FOR CONTINUOUS DIMMING FROM 100% DOWN TO 10%.
 - a. SEE DETAIL 3/E501 FOR USER MANUAL CONTROL TYPES AND OPERATION.
2. OCCUPANCY SENSORS SHALL BE PROGRAMMED FOR "VACANCY" FUNCTION. LIGHT FIXTURES SHALL REMAIN ON FOR A MAXIMUM OF 20 MIN. THEN AUTOMATICALLY TURN LIGHTS OFF. LIGHTS TURNED ON BY LOCAL USER MANUAL CONTROL.
3. DAYLIGHT RESPONSIVE SENSORS SHALL BE PROGRAMED TO MAINTAIN THE FOLLOWING MINIMUM FOOT-CANDLE LIGHT LEVELS AT DESK HEIGHT (APPROXIMATELY 2.5' AFF)
 - a. LIBRARY & RECEPTION: 45 FC
4. LIBRARY, FLEX, CHILDREN, AND RECEPTION SPACES CONTROLLED BY TIME CLOCK. COORDINATE AUTOMATIC OFF TIME(S) WITH OWNER. LIGHTS TURNED ON BY LOCAL USER MANUAL CONTROL.
5. EXTERIOR LIGHT FIXTURES.
 - a. BUILDING MOUNTED LIGHTING (EXCLUDING SIGNAGE) SHALL BE AUTOMATICALLY TURNED OFF BY TIME CLOCK BETWEEN MIDNIGHT OR BUSINESS CLOSING WHICHEVER IS LATER AND 6:00AM OR BUSINESS OPENING, WHICHEVER COMES FIRST UNLESS OTHERWISE APPROVED BY THE AHJ.
6. THE DIGITAL LIGHTING CONTROL SYSTEM SHALL BE CAPABLE OF RESPONDING TO A LOAD SHEDDING INPUT SIGNAL TO TRIM LIGHT LEVELS TO A USER PROGRAMMABLE LEVEL. (CURRENTLY THERE ARE NO LOAD SHEDDING INPUT SIGNAL IS AVAILABLE FROM THE POWER UTILITY FOR THIS SITE)
7. OCCUPANCY SENSORS AND DAYLIGHT RESPONSIVE SENSORS SHALL BE CAPABLE OF BEING RECONFIGURED THROUGH THE DIGITAL LIGHTING CONTROL SYSTEM SOFTWARE.
8. THE CONTROL FUNCTIONS OF THE DIGITAL LIGHTING CONTROL SYSTEM INCLUDING BUT NOT LIMITED TO TIME CLOCK, RELAYS, OCCUPANCY SENSORS, DAYLIGHT RESPONSIVE SENSORS AND USER MANUAL CONTROLS SHALL BE COMMISSIONED PER STATE ENERGY CODE REQUIREMENTS WITH A REPRESENTATIVE FROM THE OWNER AND OWNER'S COMMISSIONING AGENT TO ENSURE THAT THE EQUIPMENT AND DEVICES ARE CALIBRATED, ADJUSTED AND OPERATE IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS. A COMPLETE REPORT OF COMMISSIONING PROCEDURES AND RESULTS, INCLUDING AS-BUILT SYSTEM SETUP AND PARAMETER INFORMATION SHALL BE PREPARED AND FILED WITH THE OWNER. SENSOR LOCATIONS ARE DIAGRAMMATIC AND SHALL BE COORDINATED WITH A SYSTEM MANUFACTURER REPRESENTATIVE AND BUILDING FEATURES FOR PROPER PLACEMENT PRIOR TO ROUGH-IN.
9. PROJECT CLOSEOUT DOCUMENTATION SHALL INCLUDE A COPY OF THE COMMISSIONING REPORT AND FINAL WASHINGTON STATE LIGHTING COMPLIANCE FORMS AND CALCULATIONS THAT DOCUMENT INTERIOR AND EXTERIOR LIGHTING AREA AND/OR SURFACE TYPES, LIGHTING POWER ALLOWANCES, AND INSTALLED WSF LIGHTING DENSITIES.

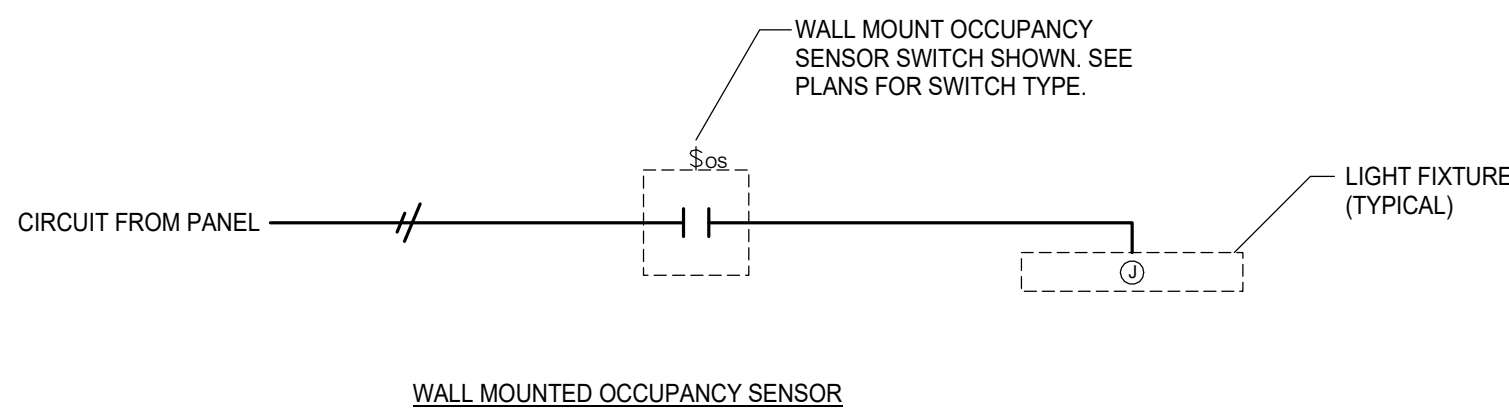
1 LIGHTING AND LIGHTING CONTROL PROGRAMMING NOTES
N.T.S.



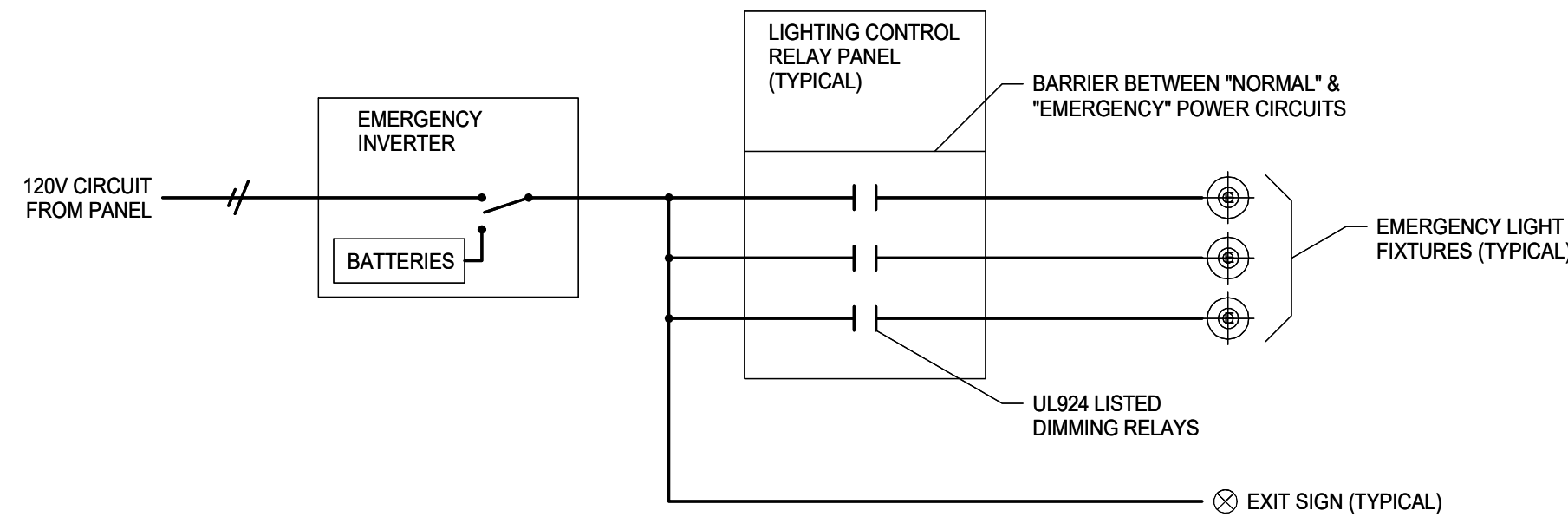
2 LOW VOLTAGE LIGHTING CONTROL DIAGRAM
N.T.S.



3 SWITCH DETAIL
N.T.S.



4 TYPICAL ANALOG LIGHTING CONTROL DIAGRAM
N.T.S.



5 TYPICAL EMERGENCY INVERTER ONE-LINE DIAGRAM
N.T.S.

**ELECTRICAL
DETAILS**

PROJECT # 22048
DATE 12/27/2023

REV #	DATE	DESCRIPTION



12/27/2023

MKE

MKE & ASSOCIATES, INC.

CONSULTING ENGINEERS

6915 SW Macadam Ave.
Suite #200
Portland, Oregon, 97219
Phone: (503) 892-1188
Fax: (503) 892-1190
Contact: Kori Hansen
Since 1979

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