PERMIT SET

12-20-2024



CLACKAMAS FIRE TRAINING WAREHOUSE

16170 SE 130th AVE CLACKAMAS, OR. 97015



GENERAL PROJECT NOTES PROJECT TEAM PROJECT SUMMARY SHEET INDEX SHEET # SHEET NAME REFER TO OWNER-CONTRACTOR AGREEMENT FOR GENERAL CONDITIONS. WHERE OWNER CLACKAMAS FIRE DISTRICT #1 THERE IS A CONFLICT BETWEEN THE CONTRACT AND NOTES HEREIN, THE CONTRACT 15800 SE 130th AVE PROJECT DESCRIPTION: RENOVATION AND ADDITION TO THE 1-STORY TAKES PRECEDENCE. CLACKAMAS, OR. 97015 PORTION OF THE CLACKAMAS FIRE DISTRICT **GENERAL** TRAINING WAREHOUSE TEL: 503-793-6158 CONTACT: Denise Toyooka GENERAL PROJECT INFORMATION G0.01 EMAIL: denise.toyooka@clackamasfire.com 10,400 S.F. EXISTING (FOOTPRINT) BUILDING GENERAL CONTRACTOR IS RESPONSIBLE FOR THE FULL SET OF CONSTRUCTION 995 S.F. 1-STORY ADDITION G1.01 **CODE SUMMARY** DOCUMENTS, INCLUDING BUT NOT LIMITED TO DRAWINGS, SPECIFICATIONS, AND SCOTT EDWARDS ARCHITECTURE, LLP ARCHITECT G1.02 FIRE LIFE SAFETY PLAN THE CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO 2525 E. BURNSIDE STREET ANY WORK AND SHALL BE RESPONSIBLE FOR ALL WORK AND MATERIALS INCLUDING PROJECT ADDRESS: 16170 SE 130th AVE. CLACKAMAS, OR. 97015 PORTLAND, OREGON 97214 THOSE FURNISHED BY SUBCONTRACTORS. TEL: 503.226.3617 ARCHITECTURAL DIMENSIONS TAKE PRECEDENCE OVER DRAWINGS: DO NOT SCALE DRAWINGS TO TAX LOT: #22E11D02325 CONTACT: BRANDON DOLE DETERMINE ANY LOCATIONS. THE ARCHITECT SHALL BE NOTIFIED OF ANY EMAIL: BDOLE@SEALLP.COM A0.01 ARCHITECTURAL GENERAL NOTES AND DIAGRAMS DISCREPANCY PRIOR TO CONTINUING WITH WORK. ZONING: CITY OF HAPPY VALLEY A0.10 WALL TYPES & GENERAL DIAGRAMS GENERAL CONTRACTOR SHALL KEEP THE CONSTRUCTION SITE IN A BROOM CLEAN INSTITUTIONAL AND PUBLIC USE DISTRICT (IPU) WDY STRUCTURAL ENGINEERS CONDITION AT ALL TIMES DURING THE PROJECT. CHAPTER 16.24.010 - SERVICE DISTRICT FUNCTIONS AND A1.01 SITE PLAN 6443 SW BEAVERTON-HILLDALE HWY, SUITE 210 **ENGINEER** THE CONTRACTOR SHALL REPORT TO THE ARCHITECT ANY ERRORS, INCONSISTENCIES OPERATIONS, INCLUDING BUT NOT LIMITED TO FIRE DISTRICT PORTLAND, OR. 97221 A2.11 DEMO FLOOR PLANS OR OMISSIONS HE OR SHE MAY DISCOVER. BRING UNFORSEEN CONDITIONS TO FACILITIES - PERMITTED TEL: 503-203-8111 ATTENTION OF ARCHITECT UPON DISCOVERY AT ANY POINT. THE MEANS OF A2.12 FLOOR PLANS CONTACT: DALE DILORETO, PE CORRECTING ANY ERROR OR UNFORSEEN CONDITION SHALL FIRST BE APPROVED BY EMAIL: DALE@WDYI.COM A2.13 THE ARCHITECT. ENLARGED TOILET ROOMS 6. ALL REQUIRED CITY AND/OR COUNTY LICENSE SHALL BE ACQUIRED AND PAID FOR BY A2.14 ROOF & RCP INTERFACE ENGINEERING, INC THE INDIVIDUAL TRADE. THE ARCHITECT WILL REVIEW SHOP DRAWINGS AND SAMPLES FOR CONFORMANCE **ENGINEER** 100 SW MAIN ST, SUITE 1600 A3.01 **EXTERIOR ELEVATIONS & SECTIONS** WITH THE DESIGN CONCEPT OF THE PROJECT. THE ARCHITECT'S REVIEW OF A PORTLAND, OR. 97204 A7.01 DETAILS SEPARATE ITEM SHALL NOT INDICATE APPROVAL OF AN ASSEMBLY IN WHICH THE ITEM TEL: 503-382-2266 CONTACT: MARK O'LEARY A8.01 INTERIOR ELEVATIONS IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY LOCATION OF ALL EMAIL: MARKO@INTERFACEENG.COM A10.01 EXISTING UTILITIES WHETHER SHOWN HEREIN OR NOT AND TO PROTECT THEM FROM DOOR SCHEDULE AND DOOR TYPES DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSES OF REPAIR OR A10.21 FINISH SCHEDULE AND LEGEND REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH THE EXECUTION OF THE WORK. CITY APPROVED PLANS SHALL BE KEPT IN A SECURE PLACE AND SHALL NOT BE USED SEPARATE PERMITS AND DEFERRED SUBMITTAL STRUCTURAL BY WORKERS. THE CONTRACTOR SHALL BE RESPONSIBLE THAT ALL SUBCONTRACTORS' CONSTRUCTION SETS REFLECT THE SAME INFORMATION. THE S0.01 STRUCTURAL NOTES & ABBREVIATIONS **BIDDER DESIGN ITEMS** CONTRACTOR SHALL ALSO MAINTAIN, IN GOOD CONDITION, ONE COMPLETE SET OF S0.02 STAMPED CITY APPROVED PLANS WITH ALL REVISIONS, ADDENDUMS, AND CHANGE SPECIAL INSPECTIONS & SCHEDULES ORDERS ON THE PREMISES AT ALL TIMES. THESE ARE TO BE UNDER THE CARE OF THE S2.12 FOUNDATION & MEZZANINE FRAMING PLANS JOB SUPERINTENDENT AND MUST BE MADE AVAILABLE TO BUILDING AND FIRE CONTRACTOR SHALL PROVIDE DESIGN, ENGINEERING, FURNISHING AND INSTALLATION OF A INSPECTIONS FOR REFERENCE DURING CONSTRUCTION. S4.01 DETAILS COMPLETE, FUNCTIONING SYSTEM(S) BASED ON THE SCHEMATIC LAYOUT SHOWN ON THE 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE ARCHITECTURAL DRAWINGS, DESCRIBED HEREIN AND IN COMPLIANCE WITH PREVAILING SITE WHILE THE JOB IS IN PROGRESS AND UNTIL JOB COMPLETION. CODE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL ORDERING OF ALL DEVICES 11. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO ENSURE THE AND FIXTURES TO ENSURE PROPER OPTIONS, ACCESSORIES AND CONFIGURATIONS. SAFETY OF THE OCCUPANTS AND WORKERS AT ALL TIMES. CONTRACTOR SHALL PROVIDE COMPLETE DESIGN AND DOCUMENTATION AS REQUIRED FOR 12. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS AND SUBMISSION TO, AND APPROVAL OF ARCHITECT, OWNER, AND GOVERNING BUILDING METHODS AND SHALL MAINTAIN THE STRUCTURAL INTEGRITY OF ANY CONSTRUCTION. DEPARTMENT. 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL REPLACE OR REMEDY ANY FAULTY, IMPROPER, OR INFERIOR MATERIALS OR WORKMANSHIP WHICH SHALL UPON COMPLETION OF REVIEW BY THE ARCHITECT OR ENGINEER OF RECORD, THE APPEAR WITHIN ONE (1) YEAR AFTER THE COMPLETION AND ACCEPTANCE OF THE CONTRACTOR SHALL BE RESPONSIBLE FOR ROUTING DOCUMENTS TO PERMIT AGENCY FOR WORK UNDER THIS CONTRACT. PLANS REVIEW AND PAYING ANY PLANS CHECK AND PERMIT FEES. 14. CONTRACTOR TO PROVIDE BACKING OR BLOCKING AS REQUIRED FOR MOUNTING ALL WALL MOUNTED SHELVES, EQUIPMENT, ACCESSORIES, CABINETS, ETC. 15. CONTRACTOR TO PROTECT ALL TREES AND ROOTS NOT SLATED FOR REMOVAL **DELEGATED / BIDDER DESIGN ITEMS:** DURING CONSTRUCTION. 16. GENERAL CONTRACTOR RESPONSIBLE FOR MAINTENANCE OF STAGING AREA AND TO 1. MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS ENSURE THAT MATERIALS DELIVERY AND STORAGE DOES NOT INTERFERE WITH DAILY 2. PRE-ENGINEERED METAL BUILDING, INSULATION, METAL PANEL SIDING, STANDING OPERATION OF ADJACENT PROPERTIES OR PUBLIC RIGHT OF WAY. SEAM METAL ROOFING 17. GENERAL CONTRACTOR RESPONSIBLE FOR CONSTRUCTION STAKING. 3. LIGHTING AND EMERGENCY LIGHTING 4. FIRE SPRINKLER SYSTEM 5. FIRE DETECTION AND ALARM SYSTEM STEEL LADDER AND MOUNTING TO WALL 7. STORM WATER CONNECTION FOR BUILDING ADDITION THE FOLLOWING DELEGATED ITEMS REQUIRE A DEFERRED SUBMITTAL TO JURISDICTION: 1. FIRE SPRINKLER SYSTEM 2. FIRE DETECTION AND ALARM SYSTEM HANGERS AND SUPPORT FOR HVAC VIBRATION AND SEISMIC CONTROLS FOR HVAC LATERAL BRACING AND ANCHORAGE OF MECHANICAL AND ELECTRICAL EQUIPMENT WEIGHING MORE THAN 75 LBS (EXCEPTIONS PER ASCE 7, SECTION 13.1.4) 7. ENGINEERING FOR PRE-FABRICATED METAL BUILDING STRUCTURE AND LATERAL SEE SPECIFICATIONS AND/OR DESIGN NARRATIVES FOR ADDITIONAL REQUIREMENTS NOT LISTED HERE AND ADDITIONAL BIDDER DESIGN ITEMS. **VICINITY MAP** 16170 SE 130th AVE



2525 E Burnside St. Portland, OR 97214

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CLACKAMAS FIRE TRAINING WAREHOUSE

Job Number:

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Drawing:

GENERAL PROJECT INFORMATION

12-20-2024

Date

Sheet No:

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BUILDING CODE SUMMARY

CONSTRUCTION TYPE TYPE V-B, SPRINKLERED

B, U, SEPARATED MIXED USE

CHAPTER 4: SPECIAL DETAILED REQUIREMENTS BASED ON OCCUPANCY AND USE: PRIVATE GARAGES

OCCUPANCY

2022 OREGON STRUCTURAL SPECIALTY CODE

PRIVATE GARAGES AND CARPORTS SHALL BE CLASSIFIED AS GROUP U OCCUPANCIES. EACH PRIVATE GARAGE SHALL SECTION 406.3.1 TABLE 803.13 INTERIOR WALL AND CEILING FINISH REQUIREMENTS (FLAME SPREAD RATING) BE NOT GREATER THAN 1,000 S.F. IN AREA. INTERIOR EXIT STAIRWAYS AND RAMPS AND EXIT PASSAGEWAYS N/A CORRIDORS AND ENCLOSURES FOR EXIT ACCESS STAIRWAYS AND RAMPS N/A **CHAPTER 5: GENERAL BUILDING HEIGHTS AND AREAS** ROOMS AND ENCLOSED SPACES ALLOWABLE HEIGHT / STORIES / U: 60 FT / 2 STORY / 22000 SF **TABLE 504.4** AREA FACTOR B: 60 FT / 3 STORY / 27000 SF **CHAPTER 9: FIRE PROTECTION SYSTEMS** TABLE 506.2 MODIFICATIONS SECTION 903.3.1.1 NFPA 13 **BUILDING AREA** SECTION 506.2.2 Aa = At + (NS x lf) Mixed Occupancy = 22000 SF + (0 SF x 0) $= 27000 \text{ SF} + (0 \text{ SF} \times 0)$ = 22000 SF PER STORY 27000 SF PER STORY **CHAPTER 10: MEANS OF EGRESS** 110 SECTION 1004 OCCUPANT LOAD (OL) STAIRWAY EGRESS CAPACITY FACTOR SECTION 1005.3.1 N/A SECTION 1005.3.2 OTHER EGRESS CAPACITY FACTOR SECTION 506.3 FRONTAGE INCREASE 1 LF / 1 LF = 100 % FRONTAGE > 20' TABLE 1006.2.1 SPACES WITH ONE EXIT OR EXIT ACCESS DOORWAY Width = 20 FTMAX OCCUPANT LOAD 49 Occupants 49 Occupants FRONTAGE INCREASE NOT USED TABLE 506.3.3 If = 0MAX COMMON PATH OF EGRESS TRAVEL 100 FT 75 FT ACTUAL HEIGHT / STORIES 21' - 2" / 2 STORY TABLE 1006.3.3 MINIMUM NUMBER OF EXITS OR ACCESS TO EXITS PER STORY ACTUAL BUILDING AREA 11395 SF OCCUPANT LOAD PER STORY 1-500 MIN NUMBER OF EXITS FOR STORY MIXED OCCUPANCY ACCESSORY SECTION 508.2 : N/A TABLE 1006.3.4(1) STORIES WITH ONE EXIT FOR R-2 NOT APPLICABLE SECTION 508.3 NON-SEPARATED TABLE 1006.3.4(2) STORIES WITH ONE EXIT FOR OTHER OCCUPANCIES FIRST STORY ABOVE/BELOW GRADE PLANE 49 / 75 FT 49 / 75 FT SECTION 508.4 SEPARATED B, U 1-HOUR SECOND STORY ABOVE GRADE PLANE 29 / 75 FT 49 / 75 FT First Floor = .44 NOT PERMITTED NOT PERMITTED THIRD STORY AND HIGHER Second Floor = .05 **SECTION 1009.1** NUMBER OF ACCESSIBLE MEANS OF EGRESS REQUIRED SECTION 1009.2.1 ELEVATOR AS ACCESSIBLE MEANS OF EGRESS NOT REQUIRED SECTION 509 INCIDENTAL USE PER TABLE 509.1 ACCESSIBLE STAIRWAY WIDTH 36" PER 1011.2] SECTION 1009.3.2 NOT REQUIRED SECTION 1009.3.3 AREA OF REFUGE **CHAPTER 6: TYPES OF CONSTRUCTION SECTION 1011.2** MINIMUM STAIR WIDTH TABLE 601 FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS TABLE 1017.2 EXIT ACCESS TRAVEL DISTANCE 117 FT BUILDING ELEMENT FIRE RATING * TABLE 1020.2 CORRIDOR FIRE-RESISTANCE RATING 0 HR 0 HOUR PRIMARY STRUCTURAL FRAME **BEARING WALLS** TABLE 1020.3 MINIMUM CORRIDOR WIDTH 44 INCHES 0 HOUR **EXTERIOR** *[36" MIN WHERE OCCUPANT LOAD < 50] 0 HOUR INTERIOR NON BEARING WALLS AND PARTITIONS - EXTERIOR PER TABLE 705.5 DEAD ENDS SECTION 1020.5 50 FEET 0 HOUR NON BEARING WALLS AND PARTITIONS - INTERIOR *LENGTH IS NOT LIMITED WHERE LENGTH < 2.5x WIDTH FLOOR CONSTRUCTION AND SECONDARY MEMBERS 0 HOUR ROOF CONSTRUCTION AND SECONDARY MEMBERS * NOT LESS THAN FIRE-RESISTANCE RATING REQUIRED BY OTHER SECTIONS OF THIS CODE **CHAPTER 11: ACCESSIBILITY** CHAPTER 7: FIRE AND SMOKE PROTECTION FEATURES APPLICABLE CODES ANSI ICC A117.1 - 2017 MINIMUM DISTANCE OF PROJECTION PER TABLE 705.2 TABLE 705.2 **CHAPTER 13: ENERGY EFFICIENCY** 2021 OREGON ENERGY EFFICIENCY SPECIALTY CODE (OEESC) **TABLE 705.5** FIRE RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE FIRE SEPARATION DISTANCE FIRE RATING CLIMATE ZONE 4C X < 5' 1 HOUR 1 HOUR 5' <= X < 10' OPAQUE ELEMENTS REQUIRED PROVIDED 10' <= X < 30' 0 HOUR ASSEMBLY MAX. MIN. R-VALUE X >= 30' 0 HOUR ROOFS INSULATION ENTIRELY ABOVE U-0.032 R-30 CI TABLE 705.8 MAXIMUM AREA OF WALL OPENINGS BASED ON FSD AND OPENING PROTECTION DECK UNPROTECTED, SPRINKLERED (NFPA 13) PROTECTED R-19 + R-11 Ls METAL BUILDINGS U-0.037 R-19 + R-11 Ls 0 TO LESS THAN 3' NOT ALLOWED NOT ALLOWED ATTIC AND OTHER U-0.021 R-49 3 TO LESS THAN 5' 15% 15% WALLS (ABOVE GRADE) 25% 25% 5 TO LESS THAN 10' U-0.104 R-9.5 CI 10 TO LESS THAN 15' 45% R-0 +R-15.8 CI METAL BUILDINGS U-0.060 R-25 15 TO LESS THAN 20' 75% 75% STEEL-FRAMED U-0.064 R-13 +R-7.5 CI NO LIMIT 20 TO LESS THAN 25' NO LIMIT WOOD-FRAMED / OTHER U-0.064 R-13 + R-3.8 Cl or R-20 25 TO LESS THAN 30' NO LIMIT NO LIMIT WALLS (BELOW GRADE) C-0.119 R-7.5 CI NOT REQUIRED NOT REQURIED 30' OR GREATER **FLOORS** R-14.6 CI MASS U-0.057 **SECTION 705.11** PARAPETS STEEL JOIST U-0.038 U-0.038 R-30 WOOD FRAMED / OTHER U-0.064 TABLE 706.4 FIRE WALL FIRE RESISTANCE SLAB-ON-GRADE FLOORS HEATED F-0.843 R-20 SECTION 707 FIRE BARRIERS UNHEATED F-0.520 R-15 R-15 **OPAQUE DOORS** 707.3.1 SHAFT ENCLOSURES PER 713.4 SWINGING U-0.370 707.3.2 PER 1023.1 INTERIOR EXIT STAIR / RAMP NON-SWINGING U-0.310 707.3.3 EXIT ACCESS STAIR PER 713.4 707.3.4 EXIT PASSAGEWAY PER 1024.3 FENESTRATION REQUIRED PROVIDED 707.3.5 HORIZONTAL EXIT PER 1026.1 MIN VTI/SHGC MAX SHGC MIN VTI/SHGC MAX U MAX SHGC MAX U 707.3.7 INCIDENTAL USES PER TABLE 509.1 VERTICAL (0% - 40% OF WALL ALLOWED) 707.3.9 SEPARATED OCCUPANCIES PER TABLE 508.4 = 1-HOUR FIXED 0.36 1.10 707.3.10 FIRE BARRIER ASSEMBLIES AND PER TABLE 707.3.10 HOUR OPERABLE U-0.45 0.33 1.10 HORIZONTAL ASSEMBLIES BTWN **ENTRANCE DR** U-0.63 0.33 1.10 FIRE AREAS SECTION 708 FIRE PARTITIONS SKYLIGHT (0% - 3% OF ROOF ALLOWED) U-0.50 0.40 NR SECTION 709 SMOKE BARRIERS NOT REQUIRED CI = CONTINUOUS INSULATION FC = FILLED CAVITY NR = NO REQUIREMENT NA = NOT APPLICABLE SECTION 711 FLOOR AND ROOF ASSEMBLIES (SUPPORTING CONSTRUCTION PER 711.2.3) **CHAPTER 29: PLUMBING FIXTURES** 711.2.4.1 SEPARATING MIXED OCCUPANCIES PER SECTION 508.4 711.2.4.2 SEPARATING FIRE AREAS PLUMBING FIXTURE SUMMARY 711.2.4.3 DWELLING / SLEEPING UNITS **OCCUPANTS** WATER CLOSETS LAVATORIES DRINKING 711.2.4.4 SEPARATING SMOKE COMPARTMENTS FUNCTION (CH. 10) TOTAL MALE **FEMALE FEMALE** MALE **FEMALE** FOUNTAINS MALE SEPARATING INCIDENTAL USES 2.520 711.2.4.5 BUSINESS 2.520 1.8 1.8 711.2.4.6 OTHER SEPARATIONS UTILITY .040 .040 .040 .040 SECTION 713 SHAFT ENCLOSURES NOT LESS THAN 1 HOUR CONNECTING LESS THAN 4 STORIES REQUIRED NOT LESS THAN 2 HOUR CONNECTING 4 STORIES OR MORE GENDER NEUTRAL FIXTURES PROVIDED

CHAPTER 8: INTERIOR FINISHES



2525 E Burnside St. Portland, OR 97214

CHAPTER 34: EXISTING BUILDINGS

SECTION 3405.6 NO CHANGE OF OCCUPANCY IS PROPOSED

THE OTHER PORTION OF THE BUILDING IS A 2-STORY WOOD FRAMED BUILDING.

NO STRUCTURAL UPGRADES ARE PROPOSED FOR THE EXISTING BUILDING.

FIRE DETECTION SYSTEMS WILL ALL MEET OR EXCEED CODE MINIMUMS.

ALTERATION, ADDITION OR CHANGE OF OCCUPANCY COMPLIANCE METHOD = PRESCRIPTIVE

PRESCRIPTIVE METHOD, REFER TO SECTION 3405

THE PROPOSED PROJECT IS A RENOVATION AND ADDITION TO AN EXISTING 10,400 S.F BUILDING.

THE STRUCTURE FOR THE ADDITION WILL MEET OR EXCEED ALL GRAVITY, WIND AND LATERAL

RESISTANCE REQUIRMENTS AND BE SEISMICALLY ISOLATED FROM THE EXISTING BUILDING.

THE BUIDLING ADDITION WILL MEET OR EXEED THE 2021 OEESC MINIMUM STANDARDS. NO ENERGY EFFICENCY UPGRADES ARE PROPOSED FOR THE EXISTING BUILDING.

A PORTION OF THE EXISTING BUILDING IS A 1-STORY PRE-ENGINEERED STEEL FRAMED BUILDING,

SECTION 3403.1.3

SECTION 3403.1.3.1

SCOPE OF WORK NARRATIVE

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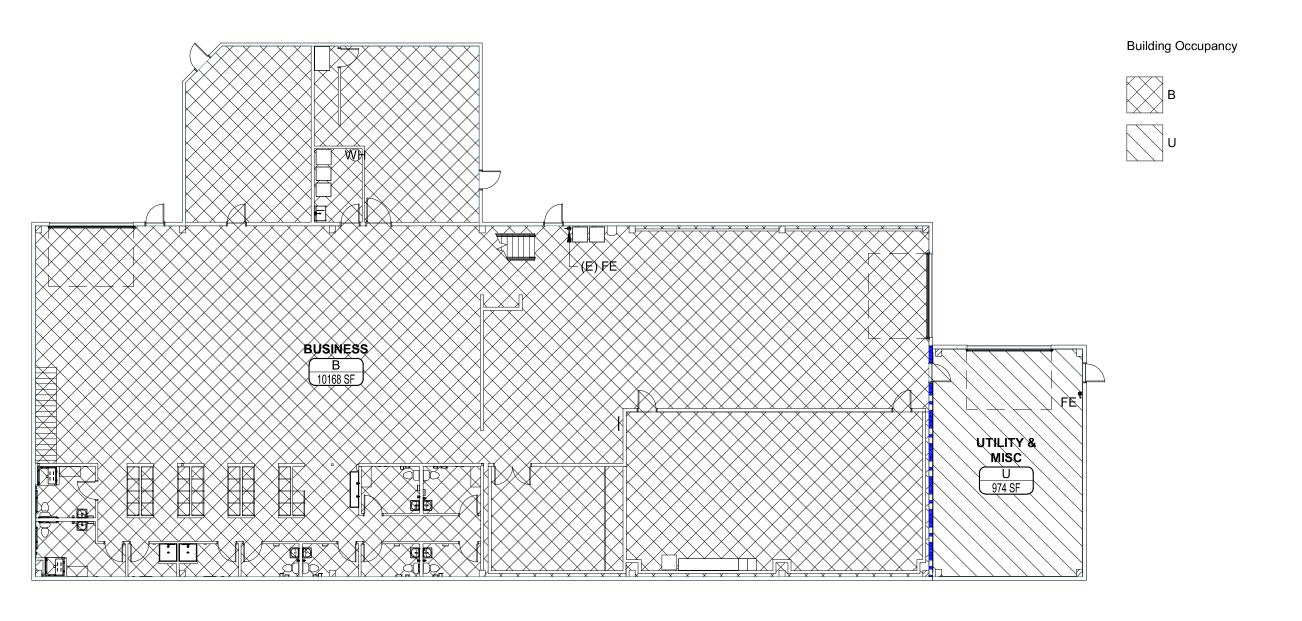
CODE SUMMARY

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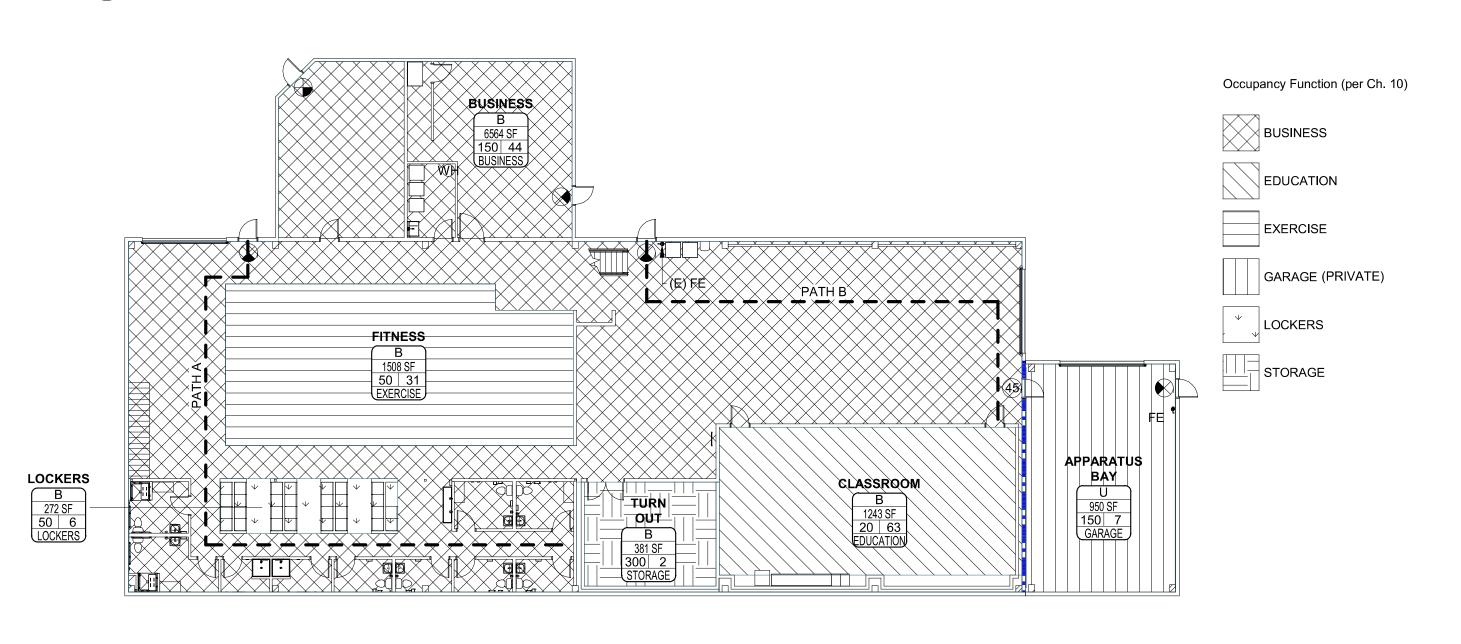
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1 BUILDING OCCUPANCY PLAN (CHAPTER 3) 1/16" = 1'-0"



2 LIFE SAFETY PLAN (CHAPTER 10) 1/16" = 1'-0"

EXIT ACCESS TRAVEL DISTANCE							
EGRESS PATH NAME	EGRESS PATH LENGTH						
PATH A	117' - 0"						
PATH B	88' - 3"						

LIFE SAFETY OCCUPANT LOAD SCHEDULE								
		TABLE 1004.5						
		FUNCTION OF	OCCUPANT	OCCUPANT				
AREA NAME	AREA (SF)	SPACE	LOAD FACTOR	LOAD				
FIRST FLOOR								
APPARATUS BAY	950 SF	GARAGE	150	7				
BUSINESS	6564 SF	BUSINESS	150	44				
CLASSROOM	1243 SF	EDUCATION	20	63				
FITNESS	1508 SF	EXERCISE	50	31				
LOCKERS	272 SF	LOCKERS	50	6				
TURN OUT	381 SF	STORAGE	300	2				
				153				

*THE BUILDING IS PRIMARILY UTILIZED FOR THE TRAINING OF FIRE FIGHTER CADETS AND THE TOOLS, EQUIPEMENT AND GEAR NEEDED FOR TRAINING. THE TRAINING PROGRAM IS LIMITED TO A MAXIMUM OF 24 CADETS AT AT TIME WITH 4 TRAINING STAFF. ADDITIONALLY, THE BUILDING IS ALSO USED FOR ADMINISTRATIVE DUTIES WITH 6 STAFF. THOUGH THE LOAD SCHEDULE CITES 153 OCCUPANTS, THE ACTUAL NUMBER OF OCCUPANTS IS 34 MAXIMUM.

CODE SUMMARY LEGEND

1 HOUR RATED FIRE BARRIER WALL RATINGS TO CONTINUE ABOVE / BELOW ALL DOORS, RELITES, ETC.

- AREA NAME OCCUPANCY (CH. 3) - AREA (SF) OCCUPANT LOAD FACTOR / NUMBER OF OCCUPANTS -FUNCTION (CH. 10) EXIT SIGN SHADE INDICATES ILLUMINATE FACE. CHEVRON INDICATES DIRECTION TO EXIT

-PATH A 100' - 0" → DOOR RATING (IN MINUTES)

EXIT ACCESS PATH

MULTI-PURPOSE FIRE EXTINGUISHER (FE) ON
BRACKET. VERIFY EXACT
LOCATIONS AND QUANTITY
WITH FIRE DEPARTMENT. Scott

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PLAN

Drawing: FIRE LIFE SAFETY

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THESE DRAWINGS ARE THE ORIGINAL UNPUBLISHED WORK OF THE ARCHITECT AND MAY NOT BE DUPLICATED OR USED WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT.

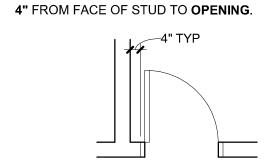
<u> </u>	POUND OR NUMBER	EXT	EXTERIOR	MTL	METAL	SYM	SYMMETRICAL
D	AT	EXI	EXTERIOR	MULL	METAL MULLION	SYIVI	STIMIMETRICAL
) L	CENTERLINE	FA	FIRE ALARM			Т	TREAD OR TILE
	ANGLE	FC	FIBER CEMENT	(N)	NEW	T&G	TONGUE AND GROOVE
i	DIAMETER OR ROUND	FD	FLOOR DRAIN	N	NORTH	T/M	TO MATCH
		FDN	FOUNDATION	NIC	NOT IN CONCRACT	TC	TOP OF CURB
λB	ANCHOR BOLT	FE	FIRE EXTINGUISER	NO	NUMBER	TEL	TELEPHONE
νC	ASPHALTIC CONCRETE	FEC	FIRE EXTINGUISHER CABINET	NOM	NOMINAL	TEMP	TEMPERATURE
CT	ACOUSTIC CEILING TILE	FG	FIBERGLASS	NTS	NOT TO SCALE	TER	TERRAZZO
' D	AREA DRAIN	FIN	FINISH			THK	THICK / THICKNESS
vDJ	ADJUSTABLE	FLASH	FLASHING	OBS	OBSCURE	TJ	TOOL JOINT
\FF	ABOVE FINISH FLOOR	FLR	FLOOR	OC	ON CENTER	TLT	TOILET
vFG	ABOVE FINISH GRADE	FLUOR	FLUORESCENT	OD	OUTSIDE DIAMETER	TO	TOP OF CONCRETE
LT	ALTERNATE	FOC	FACE OF CONCRETE	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED	TOC	TOP OF CONCRETE
LUM NOD	ALUMINUM ANODIZED	FOF FOS	FACE OF FINISH FACE OF STUD	OFOI	OWNER FURNISHED OWNER	TOP TOS	TOP OF PARAPET TOP OF STEEL
APPROX	APPROXIMATE /	FRP	FIBERGLASS REINFORCED	01 01	INSTALLED	TOSF	TOP OF STEEL TOP OF SUB-FLOOR
II I KOX	APPROXIMATELY	110	PLASTIC	OPNG	OPENING	TOW	TOP OF WALL
RCH	ARCHITECTURAL /	FRT	FIRE RETARDANT TREATED	OPP	OPPOSITE	TP	TOP
	ARCHITECT	FRZ	FREEZER	OTS	OPEN TO STRUCTURE	TS	TUBE STEEL
SPH	ASPHALT	FT	FOOT / FEET			TV	TELEVISION
		FTG	FOOTING	Р	PANTRY	TYP	TYPICAL
BC	BOTTOM OF CURB	FURR	FURRING	PC	PRECAST		
BD	BOARD	FUT	FUTURE	PIP	POURED IN PLACE	UL	UNDERWRITER'S
BITUM	BITUMINOUS	_		PL	PLATE OR PROPERTY LINE		LABORATORY
BLDG	BUILDING	GA	GAUGE	PLAM	PLASTIC LAMINATE	UNF	UNFINISHED
BLKC	BLOCKING	GALV	GALVANIZED	PLAS	PLASTIC PLANCOD	UNO	UNLESS NOTED OTHERW
BLKG BLW	BLOCKING BELOW	GC	GENERAL CONTRACTOR	PLYWD PNT	PLYWOOD PAINT	UR	URINAL
BO	BOTTOM OF	GI	GALVANIZED IRON	PN1 PSF	PAIN I POUNDS PER SQUARE FOOT	\	\/ADOD D
BOT	BOTTOM OF	GL	GLULAM	PSF PSI	POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH	VB VCT	VAPOR BARRIER
BRG	BEARING	GND GR	GROUND GRADE	PT PT	PRESSURE TREATED	VCT VERT	VINYL COMPOSITION TILE VERTICAL
BTWN	BETWEEN	GK GWB	GYPSUM BOARD	PTD	PAINTED	VERT	VERIICAL VERIIFY
BUR	BUILT UP ROOF	GYP	GYPSUM BOARD GYPSUM	PVC	POLYVINYL CHLORIDE	VF1 VG	VERTICAL GRAIN
,010	Boilt of Roof	GYP BD	GYPSUM BOARD	1 00	T GET VIIVTE GITEGINIBE	VG VIF	VERTICAL GRAIN VERIFY IN FIELD
CAB	CABINET	GIPBD	GTPSUM BOARD	QT	QUARRY TILE	VIF VP	VENT PIPE
B	CATCH BASIN	НВ	HOSE BIB	Q,	QO/WWW NEE	VP VR	VAPOR RETARDER
FM	CUBIC FEET PER MINUTE	HC	HOLLOW CORE	R	RADIUS OR RISER	VIX	VALORINETARDER
Cl	CAST IRON	HDR	HEADER	RA	RETURN AIR	W	WEST
IP .	CAST IN PLACE	HDWD	HARDWOOD	RB	RESILIENT BASE	W	WATT
J	CONTROL JOINT	HDWR	HARDWARE	RD	ROOF DRAIN	W/	WITH
L	CENTERLINE	НМ	HOLLOW METAL	REC	RECOMMENDATION	W/O	WITHOUT
CLG	CEILING	HNDCP	HANDICAP	REF	REFERENCE	WC	WATER CLOSET
LR	CLEAR	HORIZ	HORIZONTAL	REFR	REFRIGERATOR	WD	WOOD
CMU	CONCRETE MASONRY UN	IT _{HP}	HORSE POWER	REINF	REINFORCE(MENT)	WDW	WINDOW
O	CLEAN OUT	HPL	HIGH PRESSURE LAMINATE	REQ'D	REQUIRED	WF	WIDE FLANGE
O	CLEAN OUT	HR	HOUR	RESIL	RESILIENT	WI	WROUGHT IRON
OL	COLUMN	HSS	HOLLOW STRUCTURAL STEEL	REV	REVISIONS	WO	WHERE OCCURS
ONC	CONCRETE	HT	HEIGHT	RF	RESILIENT FLOOR	WP	WATERPROOF
ONN	CONNECTION	HVAC	HEATING VENTILATING AIR	RH	RIGHT HAND	WR	WATER RESISTANT
CONT	CONTINUOUS	1.15.47	CONDITIONING	RM	ROOM	WRB	WATER RESISTANT BARR
PT	CARPET	HW	HOT WATER	RO	ROUGH OPENING	WSCT	WAINSCOT
SMT	CASEMENT CERAMIC THE	ID	INCIDE DIAMETED	ROW RWL	RIGHT OF WAY	WT	WEIGHT
T TSK	CERAMIC TILE COUNTERSUNK	ID IE	INSIDE DIAMETER INVERT ELEVATION	RVVL	RAIN WATER LEADER	WWF	WELDED WIRE FABRIC
) ISK CW	COUNTERSONK COLD WATER	IN IN	INCHES	S	SOUTH		
WD	CLAD WOOD	INSUL	INSULATION	SA	SUPPLY AIR		
,,,,,	CEAB WOOD	INT	INTERIOR	SAM	SELF ADHERED MEMBRANE		
BL	DOUBLE	1141	INTERIOR	SC	SOLID CORE		
EG	DEGREE	JB	JUNCTION BOX	SCHED	SCHEDULE		
)EMO	DEMOLISH/ DEMOLITION	JH	JOIST HANGER	SEC	SECTION		
EPT	DEPARTMENT	JST	JOIST	SF	SQUARE FOOT		
)ET	DETAIL	JT	JOINT	SHT	SHEET		
F	DOUGLAS FIR			SHTHG	SHEATHING		
Н	DOUBLE HUNG	KD	KILN DRIED	SHWR	SHOWER		
NΑ	DIAMETER	KIT	KITCHEN	SIM	SIMILAR		
IAG	DIAGONAL	KW	KILOWATT	SM	SHEET METAL		
MIC	DIMENSION			SP	SOLID PIPE		
ISP	GARBAGE DISPOSAL	LAM	LAMINATED	SPEC	SPECIFICATIONS		
N	DOWN	LAV	LAVATORY	SPK	SPEAKER		
00	DOOR OPENING	LB	LEADER BOX	SQ	SQUARE		
)P	DAMP PROOF	LH	LEFT HAND	SS	STAINLESS STEEL		
)R	DOOR	LKR	LOCKER	SSK	SERVICE SINK		
)S Ned	DOWNSPOUT	LTMT	LIGHT	SSM	SOLID SURFACE MATERIAL		
)SP	DRY STANDPIPE	LTWT	LIGHTWEIGHT	STA	STATION STANDARD		
)TL	DETAIL	NAAT	MATERIAL	STD	STANDARD STEEL		
)WC	DISHWASHER	MAT	MATERIAL MAYIMI IM	STL	STEEL STAIN		
)WG)WR	DRAWING DRAWER	MAX MB	MAXIMUM MACHINE BOLT	STN STR	STAIN STRUCTURAL		
/ V V T\	DIMWER	MC MB	MACHINE BOLT MEDICINE CABINET	STRUCT	STRUCTURAL		
=)	EXISTING	MECH	MECHANICAL	STRUCT	STRUCTURAL SUSPENDED		
E)	EXISTING EAST	MECH MFR	MECHANICAL MANUFACTURER	3037	SUSPENDED		
: :A	EACH	MFR MH	MANHOLE				
:A :J	EXPANSION JOINT	MIN	MINIMUM				
LEC	ELECTRICAL	MIR	MIRROR				
ELEV	ELECTRICAL ELEVATION	MISC	MISCELLANEOUS				
MER	EMERGENCY	MO	MASONRY OPENING				
NCL	ENCLOSURE	MRGWB	MOISTURE RESISTANT GWB				
EQ	EQUAL	MTD	MOUNTED				
:QUIP	EQUIPMENT						
	EXISTING						
XIST	EXIOTING						

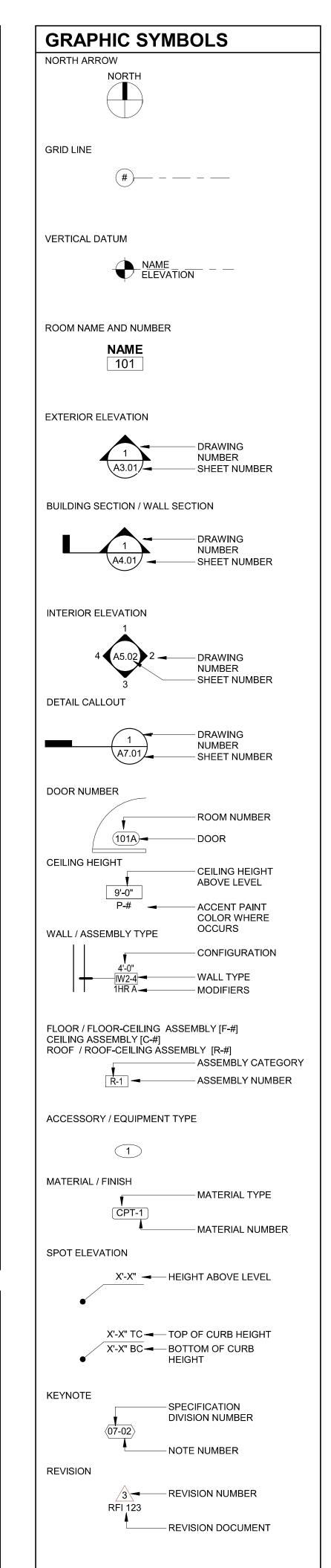
DIMENSIONS

A. DIMENSIONS ARE INDICATED IN THE DOCUMENTS. THE DRAWINGS SHALL NOT BE SCALED FOR

DIMENSIONS. NOTIFY ARCHITECT IF ADDITIONAL DIMENSIONS ARE NECESSARY.

- B. IN MANY INSTANCES THE ACTUAL DIMENSIONS MAY BE LESS IMPORTANT THAN IF ELEMENTS ARE TO BE EQUALLY SPACED OR ALIGNED. IN THESE CASES, THE NOTATION "EQ" OR "ALIGN" IS USED IN LIEU OF A DIMENSION.
- C. DETAILS WILL GOVERN ALL DIMENSIONS NOT SHOWN ON PLANS. REFERENCE INDICATED DIMENSION
- D. DIMENSIONS SHOWN ARE TO GRIDLINE, CENTERLINE OF COLUMN, OR FACE OF STUD / MASONRY, UNLESS NOTED OTHERWISE.
- E. INTERIOR WALLS WHICH ARE EQUALLY SPACED ARE DIMENSIONED TO CENTERLINE OF WALL.
- F. DOORS NOT LOCATED BY DIMENSION SHALL BE CENTERED IN WALLS AS SHOWN ON PLANS OR LOCATED







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Issue Date

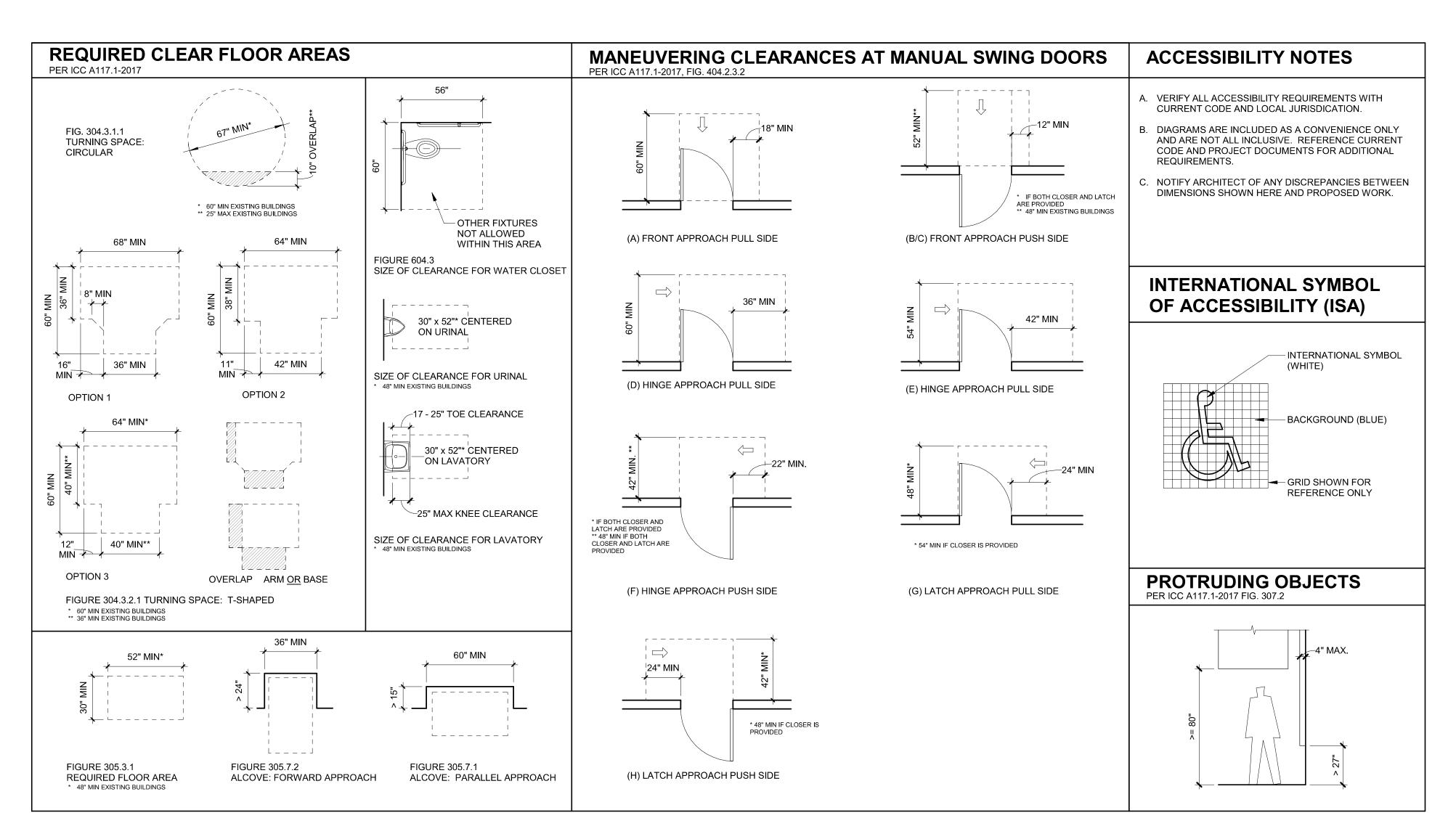
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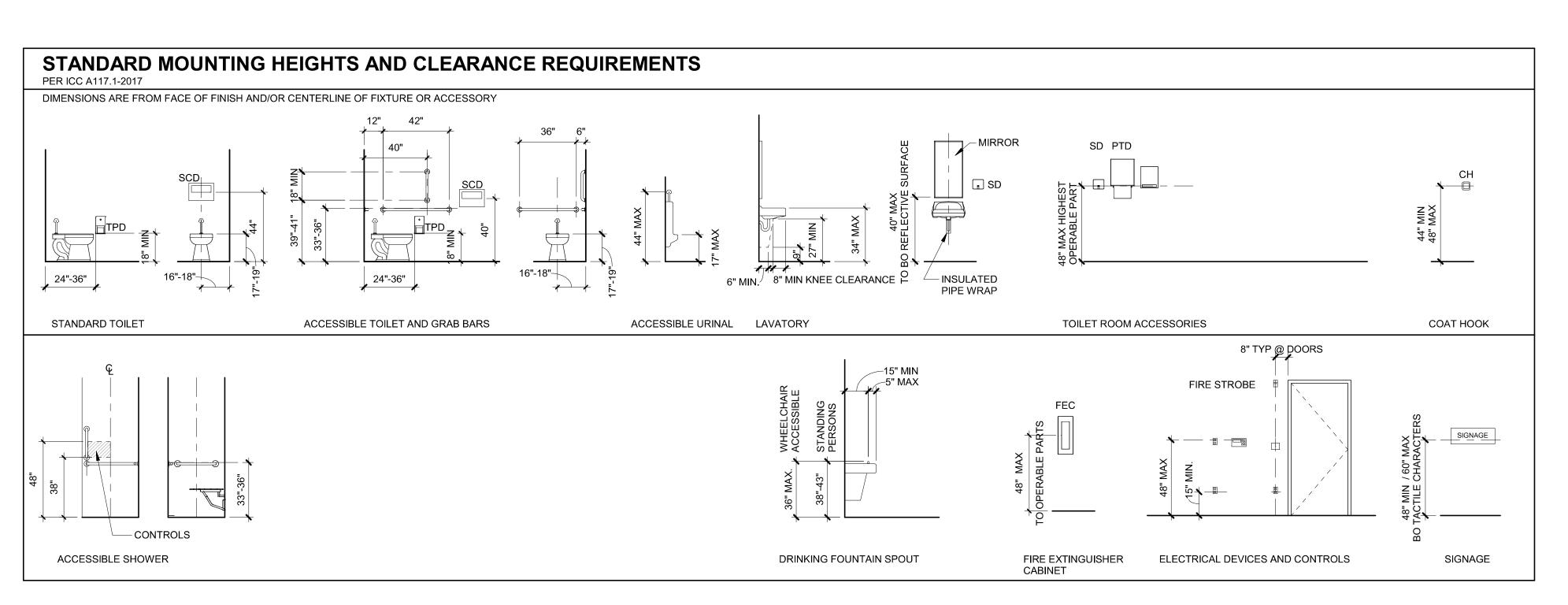
ARCHITECTURAL
GENERAL NOTES

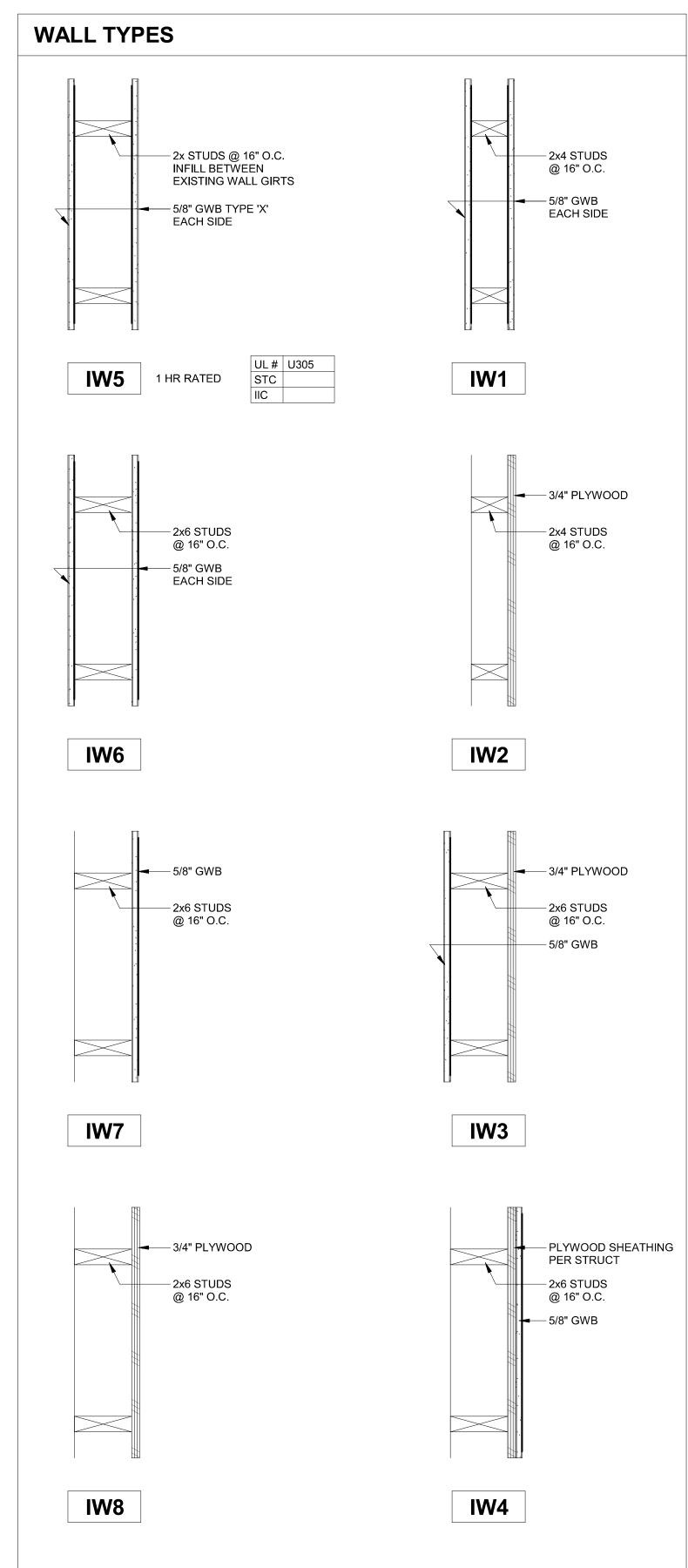
GENERAL NOTES AND DIAGRAMS

Sheet No:

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Drawing:

WALL TYPES & GENERAL DIAGRAMS

Date

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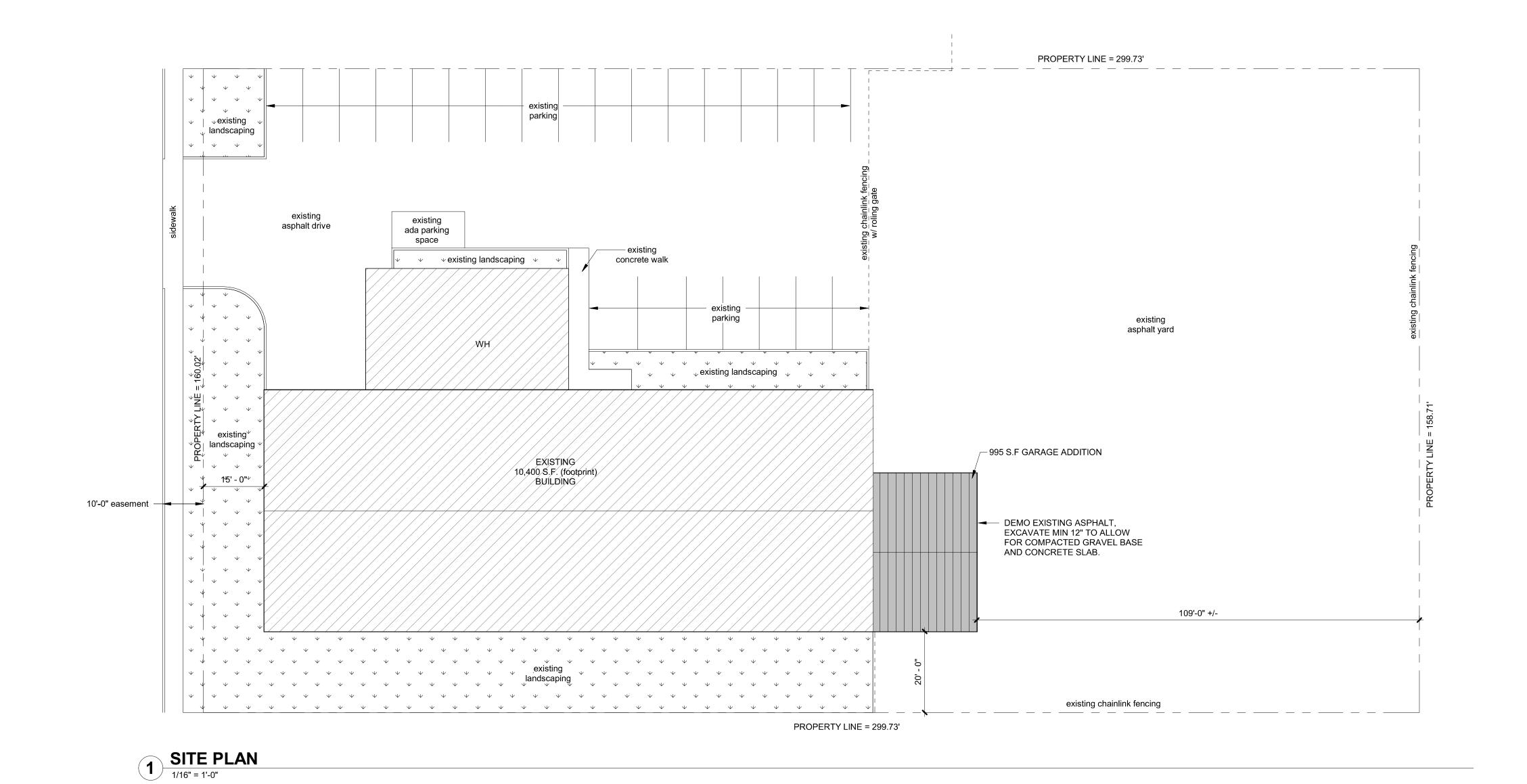


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Job Number:

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PERMIT SET

Drawing: SITE PLAN

Sheet No:

12-20-2024

KEYNOTES

DEMO PLUMBING FIXTURES, TOILET PARTIONS, ASSESSORIES, ETC 02-02 PARTIALLY REMOVE METAL SIDING TO ALLOW FOR NEW ADDITION 02-03 DEMO 8'-0" +/- TALL WOOD FRAMED

PARTITION 02-04 DEMO ELECTRIC WATER HEATER

02-05 DEMO 8'-0" +/- TALL CHAIN LINK FENCING 02-06 DEMO GUARDRAIL

02-07 SALVAGE LOCKERS 02-08 SALVAGE HOOKS AND TURN OVER TO OWNER, DEMO WOOD RAILS 02-09 SALVAGE WASHER, DRYER, EXTRACTOR 02-10 SALVAGE COUNTERTOP AND CASEWORK

02-11 SALVAGE REFRIGERATOR 02-12 SALVAGE AXE DISPLAY, TURN OVER TO 02-13 DEMO SINK AND CASEWORK

02-14 DEMO VINYL SLIDING GLASS DOORS 02-15 SALVAGE RUBBER FLOORING, TURN OVER TO OWNER 02-16 DEMO VCT FLOORING AND RUBBER BASE 02-17 DEMO RUBBER BASE 02-18 SALVAGE MOP RACK, TURN OVER TO

OWNER 02-19 SALVAGE LIQUID DETERGENT DISPENSERS

02-20 SALVAGE LIQUID CLEANING DISPENSERS, TURN OVER TO OWNER DEMO WALL MOUNTED WOOD RAILS 02-21 SALVAGE WHITE BOARD(S), TURN OVER 02-22 TO OWNER

WALL MOUNTED ROPE HOLDER, (2) MIRRORS, TURN OVER TO OWNER SALVAGE UTILITY SINK AND CABINET

SALVGE (2) TV'S AND WALL MOUNTS,

LEGEND - DEMO FLOOR PLAN

02-23

EXISTING TO REMAIN

DEMO ITEMS

GENERAL DEMO NOTES

- A. COMPLY WITH ALL APPLICABLE LOCAL CODES AND ORDINANCES CONCERNING DEMOLITION OPERATIONS, RECYCLING, AND RESTRICTIVE
- B. LIMITS OF DEMOLITION SHOWN IS FOR GENERAL GUIDANCE ONLY. CONTRACTOR SHALL ASCERTAIN THE FULL EXTENT OF DEMOLITION REQUIRED TO ACCOMMODATE THE NEW WORK AND PRODUCE A CONSISTENT APPEARANCE. C. PROVIDE TEMPORARY EXITING AS REQUIRED AND
- APPROVED BY LOCAL FIRE MARSHALL. D. COORDINATE ALL DEMOLITION AND SALVAGE WITH OWNER. OWNER TO COORDINATE REMOVAL OF EXISTING FURNISHINGS, FIXTURES AND
- **EQUIPMENT UNLESS NOTED OTHERWISE** E. CONTRACTOR SHALL BE RESPONSIBLE FOR SHORING OF EXISTING STRUCTURE AS REQUIRED. F. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND NOTIFY ARCHITECT
- IMMEDIATELY OF DISCREPANCIES. G. IF EXISTING BUILDING IS TO REMAIN OCCUPIED DURING CONSTRUCTION, CARE IS TO BE TAKEN TO MINIMIZE NOISE, DUST, ODOR AND DISRUPTION OF OCCUPANTS AND UTILITIES. ALL BUILDING **OUTAGES REQUIRED FOR COMPLETION OF WORK** TO BE SCHEDULED WITH OWNER WITH 48 HOUR
- ADVANCE NOTIFICATION. H. REFER TO M/E/P DESIGN NARRATIVE FOR
- ADDITIONAL DEMO INFORMATION REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL DEMO INFORMATION.

DEMO FLOOR FINISH NOTES

REFER TO KEYNOTES 02-06, 02-15, 02-16; REMOVE FLOORING, BACKING, ADHESIVE, ETC DOWN TO CONCRETE IN PREPARATION FOR NEW FLOORING OR CONCRETE SEAL.

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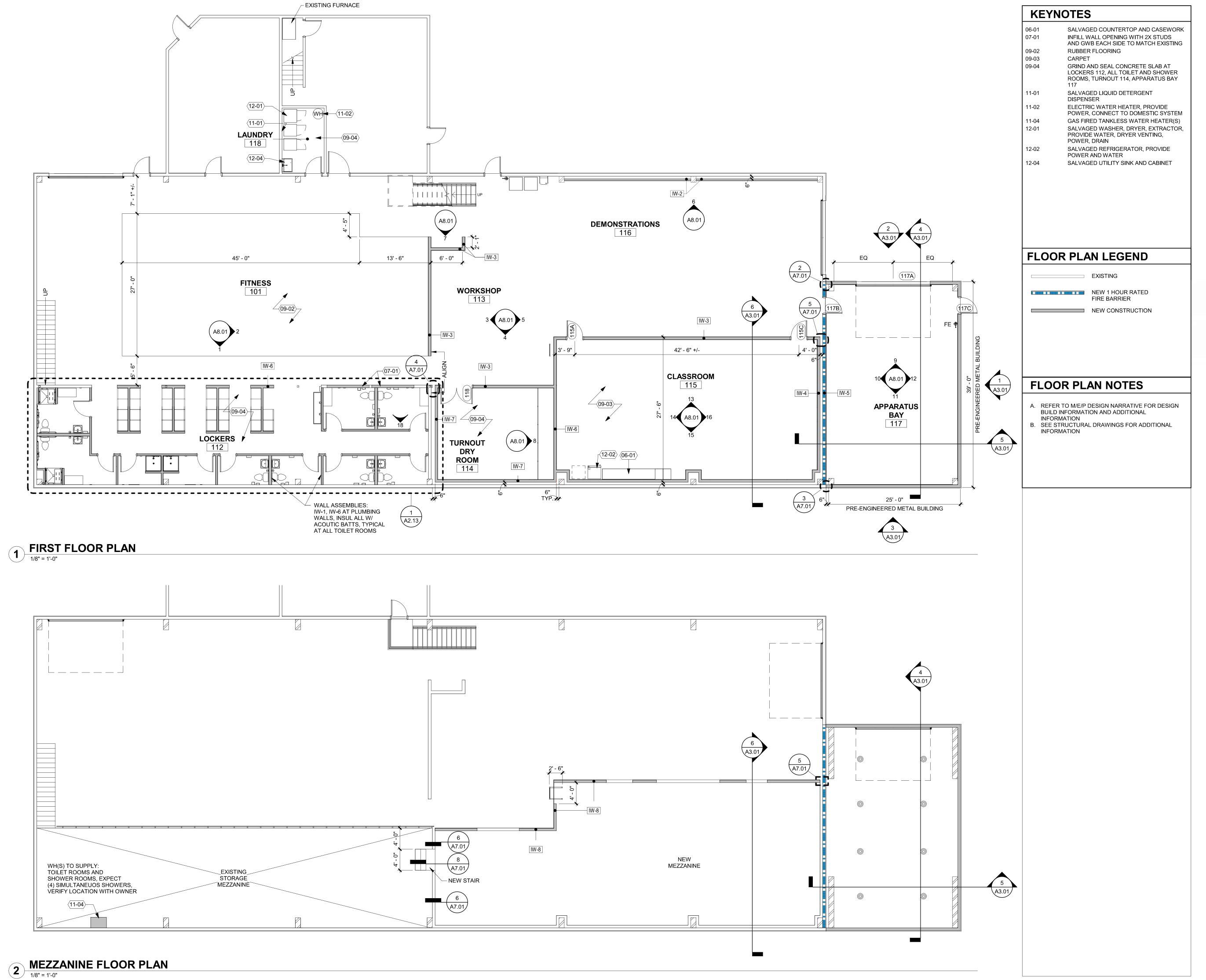
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Drawing:

DEMO FLOOR PLANS

12-20-2024

Date



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SIDNEY I SCOTT STAND, OREGON OF ORECO

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PERMIT SET

Issue

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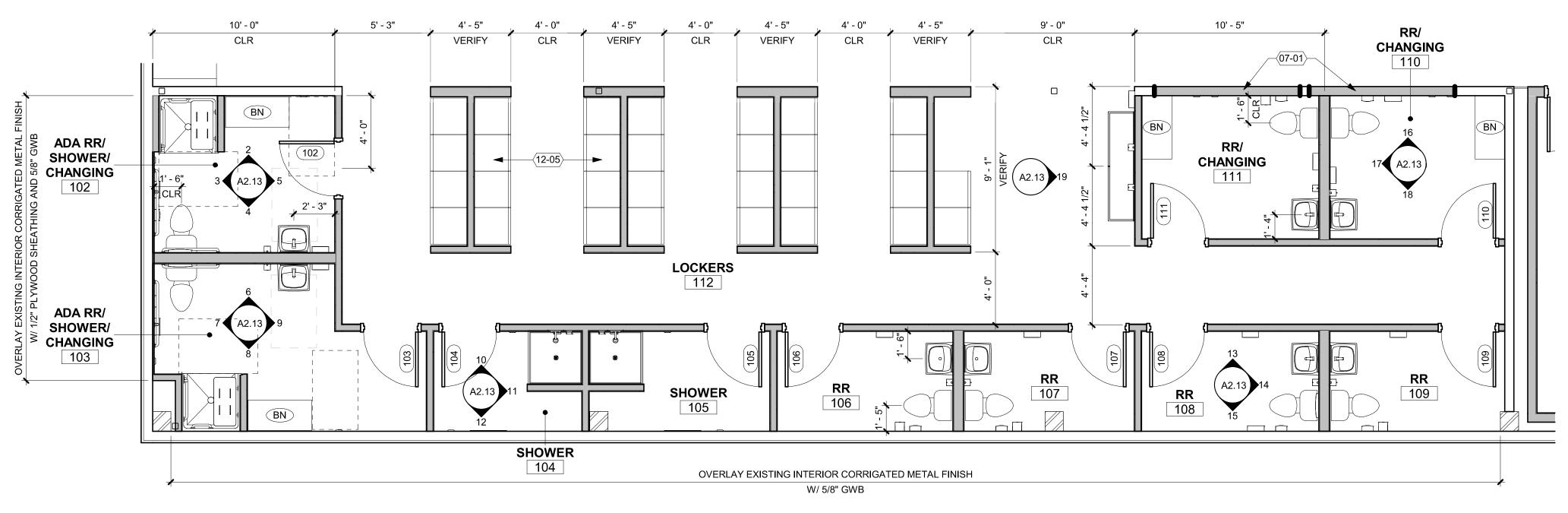
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FLOOR PLANS

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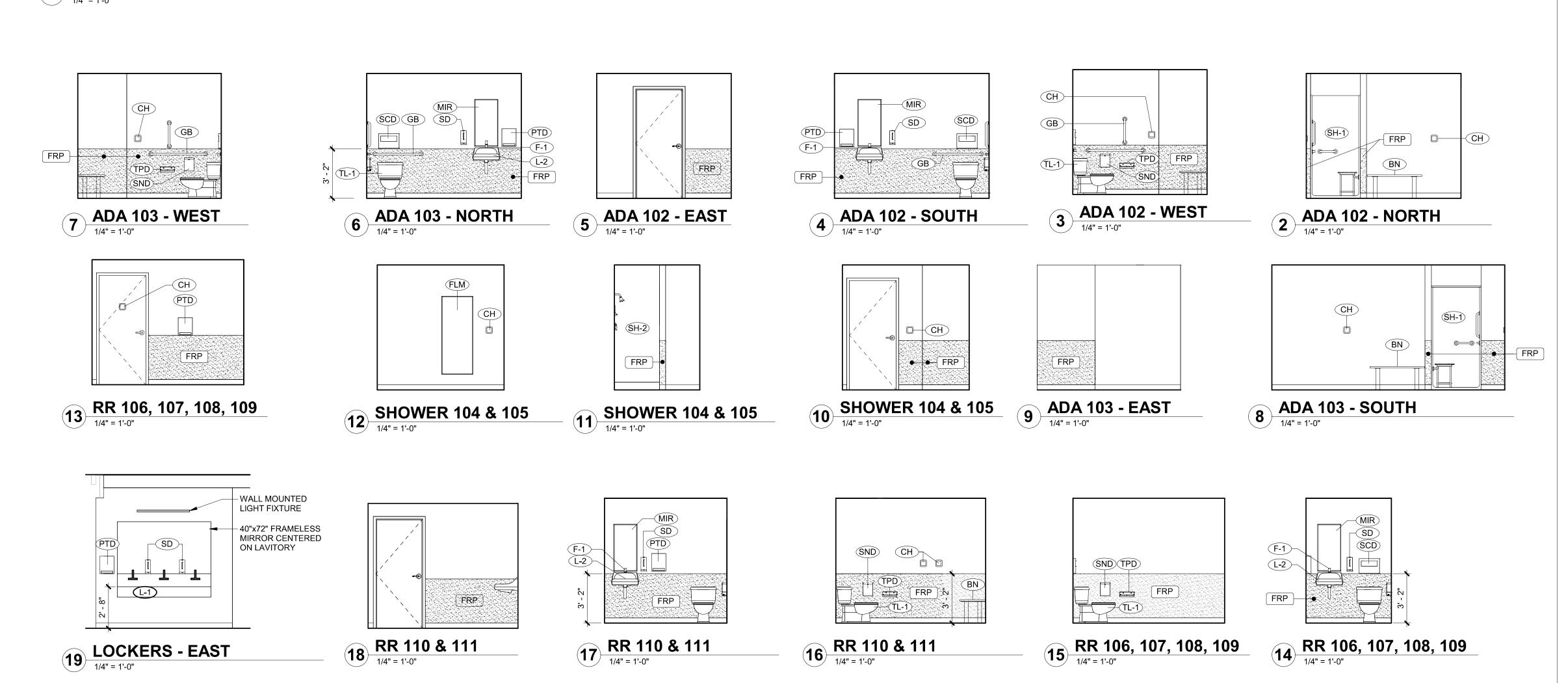
A2.12





FLOOR PLAN - ENLARGED TOILET ROOMS

1/4" = 1'-0"



KEYNOTES

INFILL WALL OPENING WITH 2X STUDS
AND GWB EACH SIDE TO MATCH

12-05 SALVAGED LOCKERS

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Issue

Drawing:

ENLARGED TOILET ROOMS

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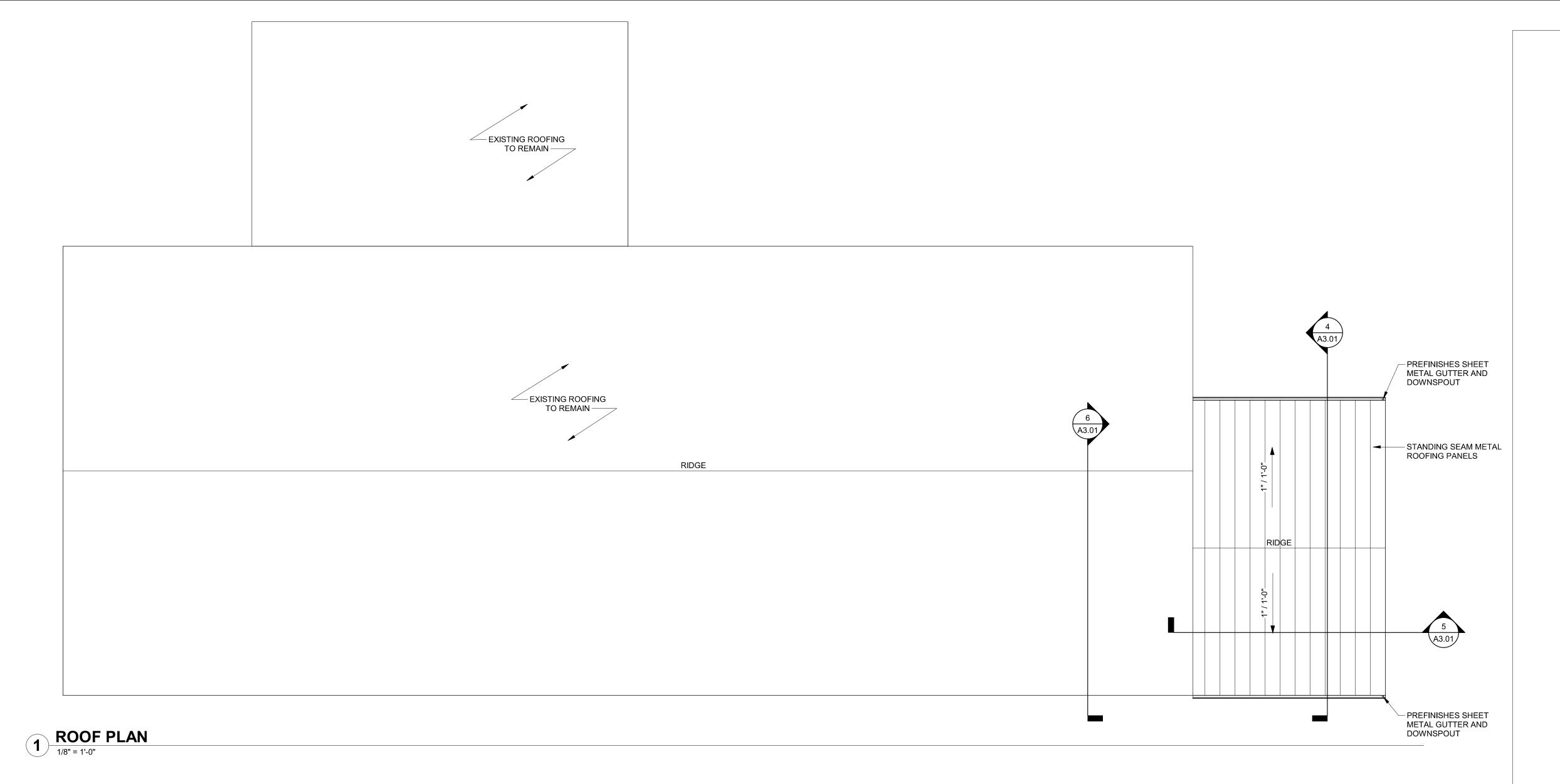
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REFLECTED CEILING PLAN

1/8" = 1'-0"





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RCP NOTES

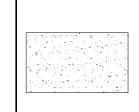
- A. ALL FINISHED CEILING HEIGHTS ARE FROM
- TOP OF CONCRETE. B. CEILING GRIDS ARE TO BE CENTERED IN ROOMS AS SHOWN OR LOCATED PER INDICATED DIMENSIONS. AVOID LAYOUTS THAT RESULT IN CEILING TILES LESS THAN ONE HALF OF FULL TILE
- C. CEILING MOUNTED DEVICES TO BE CENTERED IN CEILING GRIDS AND ALIGNED WITH OTHER
- DEVICES.
- DEVICES.

 D. CENTER LIGHTS IN ROOMS OR SPACES UNLESS DIMENSIONED OTHERWISE.

 E. THE FIRE SPRINKLER SYSTEM, HEADS AND CEILING MOUNTED DEVICES ARE DEISIGN BUILD. DEVICES ARE NOT SHOWN. CONTRACTOR TO SATISFY THE REQUIREMENTS OF THE LOCAL JURISDICTION FOR OUTSTAND LOCATION OF DEVICES.
- QUANTITY AND LOCATION OF DEVICES.

 F. MECHANICAL SYSTEMS, ELECTRICAL SYSTEMS
 AND LIGHTING FIXTURES ARE DESIGN BUILD.

RCP LEGEND



GYPSUM BOARD PAINT P-1 UNLESS NOTED OTHERWISE

LINEAR RECESSED

ROUND PENDANT

6" RECESSED

LINEAR STRIP PENDANT

Sheet No:

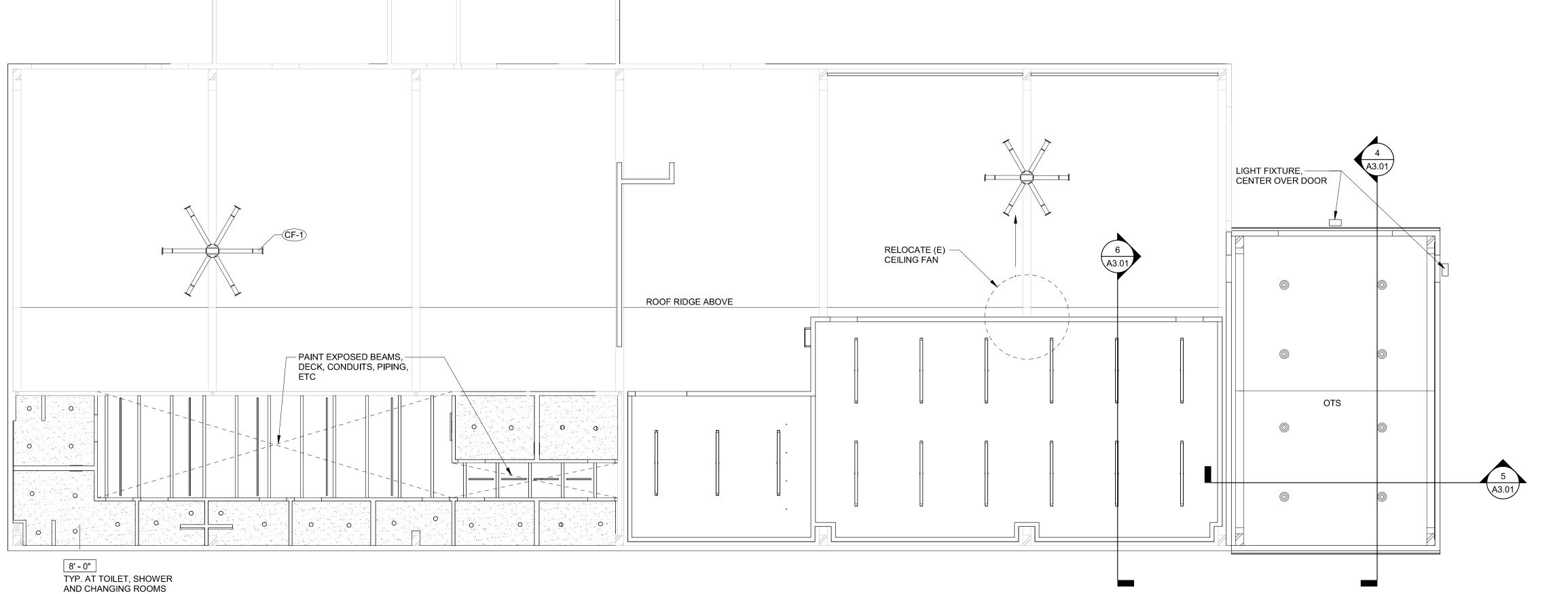
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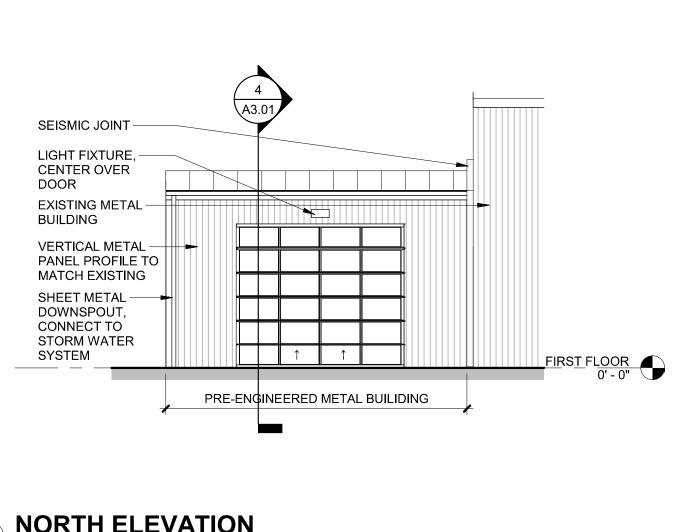
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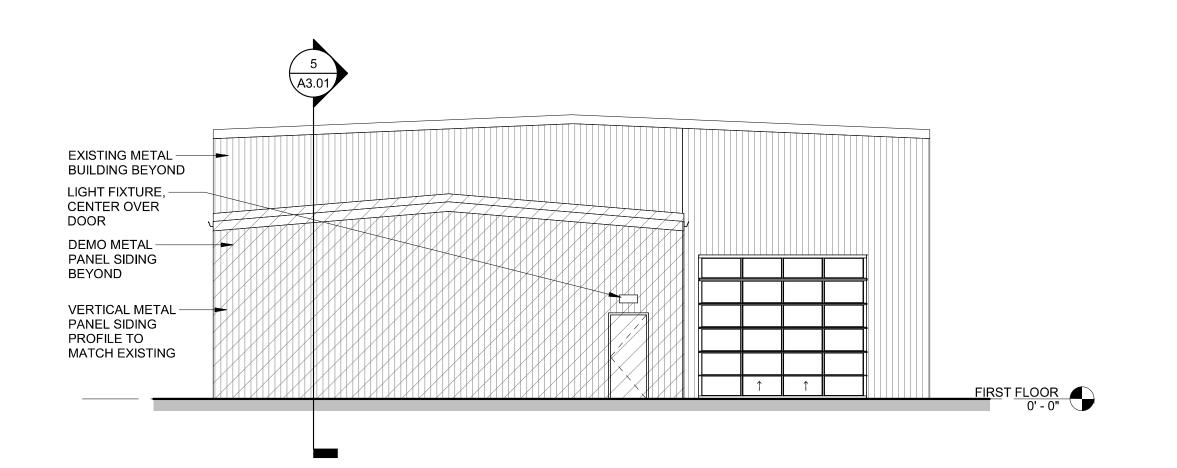
Drawing:

ROOF & RCP

12-20-2024

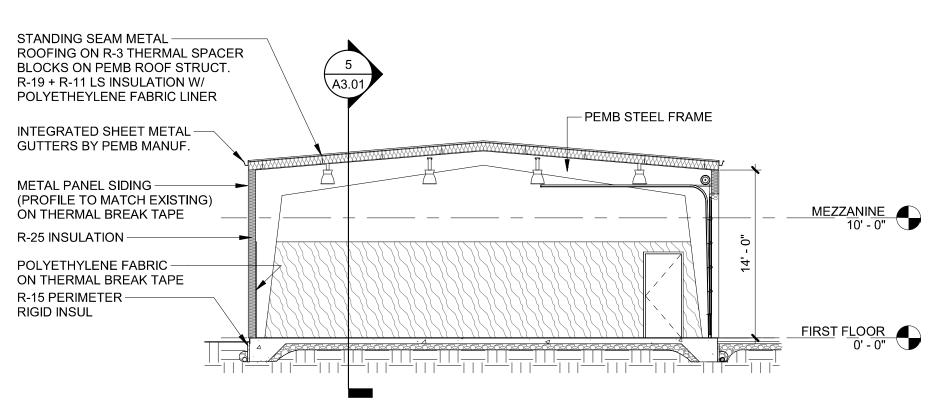


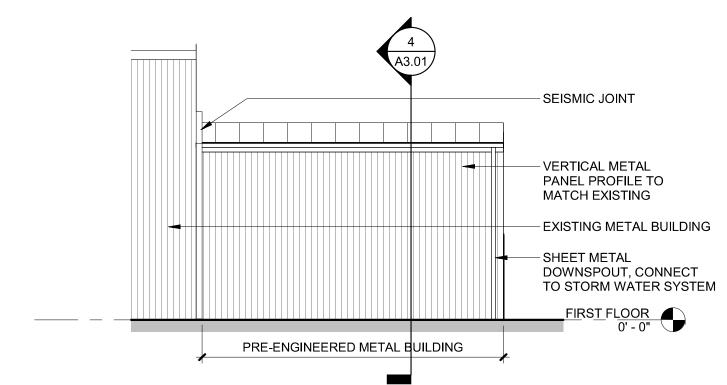






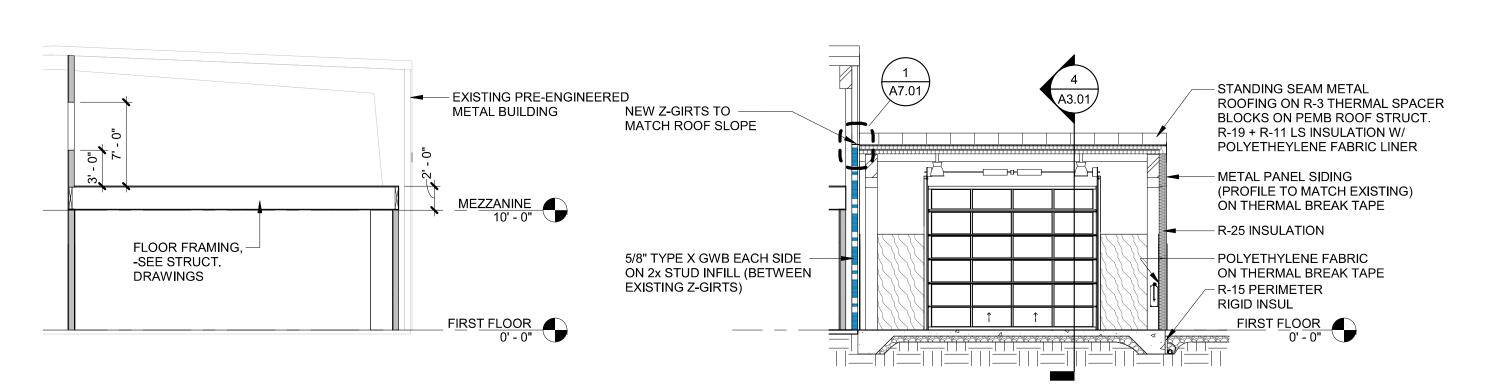












6 NEW MEZZANINE SECTION

1/8" = 1'-0"

BUILDING SECTION1/8" = 1'-0"



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CLACKAMAS FIRE TRAINING **WAREHOUSE**

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Issue

Drawing:

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Date

EXTERIOR ELEVATIONS & SECTIONS

Sheet No:

A3.01

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LAY-IN ACOUSTIC PANELS OR DIRECT (SCREW) ATTACHED **CEILING TYPE:** 5/8" GYPSUM WALL BOARD. LOAD CRITERIA:

 VERTICAL: LATERAL: OSSC SEISMIC ZONE D DUTY CLASSIFICATION: HEAVY-DUTY PER ASTM C-635-00 CROSS RUNNER DEFLECTION: L/360 MAX OSSC T1604.5 RISK CATEGORY:

GRID LIMITATIONS: MAXIMUM GRID SPACING:

 INTERSTITIAL SPACE HEIGHT: 15' MAXIMUM • INTERIOR NON-BEARING PARTITIONS: INDEPENDENTLY SUPPORTED AND BRACED - SEE DETAILS

REFERENCE SOURCES (PER STATEWIDE INTERPRETATION NO. 10-01, ii., e.): 2022 OREGON STRUCTURAL SPECIALITY CODE (OSSC), 808.1, 1613.1 AND 1613.4.11 • NWCB FIELD TECHINCIAL INFORMATION BULLETIN 401 - REVISED 3/22

 ASTM C635, ASTM C636, ASTM E580 CEILINGS AND INTERIOR SYSTEMS CONSTRUCTION (CISCA)

SUSPENSION WIRE: #12 SWG GALVANIZED WIRE

MANUFACTURER'S RECOMMENDATIONS SHOULD BE FOLLOWED WHERE APPLICABLE

A. SYSTEM COMPONENTS:

ASCE 7-10, SECTION 13.5.6

1-1/2" COLD FORMED STEEL 'C' CHANNEL, OR PROPRIETARY 'T' SECTION MAIN RUNNERS: MEETING DUTY RATING SPECIFIED ABOVE; AT 48" OC

7/8" X 2-5/8" X 25GA CARBON SHEET STEEL HAT CHANNELS, OR PROPRIETARY CROSS RUNNERS:

'T' SECTION MEETING DUTY RATING SPECIFIED ABOVE; AT 2' OC

#18 SWG GALVANIZED WIRE - DOUBLE STRAND TIE WIRE:

ANCHORS: 200# MIN EA 1/4"X3" SCREW EYES WOOD: STEEL DECK: CMI DC1 OR DC 2-1/4" METAL DECK SCREW EYES CONCRETE: EMBEDS OR HILTI X-U FASTENERS AT HANGER

B. LATERAL BRACING - CEILINGS OVER 144 SF:

• LATERAL SUPPORT POINTS SHALL BE PLACED 12' OC IN EACH DIRECTION WITH THE FIRST POINT

WIRES AND KWIK-HUS EZ AT SPLAY WIRES

- WITHIN 4' FROM EACH WALL. • PROVIDE 4 WIRES OF MINIMUM NO. 12 GAUGE IN 4 DIRECTIONS 90° APART AND CONNECTED TO THE MAIN RUNNER WITHIN 2" OF THE CROSS RUNNER AND TO THE STRUCTURE ABOVE AT AN ANGLE NOT TO EXCEED 45° FROM THE PLANE OF THE CEILING.
- LOCATE COMPRESSION STRUT AT, AND CENTERED ON, ALL LATERAL SPLAY WIRE LOCATIONS NOTED ABOVE. ATTACH RIGIDLY FROM MAIN RUNNER TO STRUCTURE ABOVE.

STRUT	MAX LENGTH
1/2" Ø EMT CONDUIT	5'-10"
3/4" Ø EMT CONDUIT	7'-8"
1" Ø EMT CONDUIT	9'-9"
(1) 1 5/8" X 20 GA METAL STUD	12'-0"
(2) BACK TO BACK 1 5/8" X 20 GA METAL STUDS	15'-0"

C. PERIMETER ANGLE - LAY-IN ACOUSTIC PANEL CEILINGS OVER 144 SF:

- PERIMETER SUPPORT ANGLE SHALL BE ATTACHED TO WALL FRAMING WITH MINIMUM #6 SCREW @ 24" OC MAX, AND ANGLE SHALL HAVE A MINIMUM 2" HORIZONTAL LEG. MFR PERIMETER CLIPS MAY BE USED IN LIEU OF 2" CLOSURE ANGLE WHEN SUBSTANTIATING DOCUMENTATION IS AVAILABLE. REF SPECIFICATIONS.
- ONE END OF GRID SHALL BE ATTACHED TO THE PERIMETER ANGLE AT EACH OF TWO ADJACENT WALLS W/ RIVETS. THE OPPOSITE END OF THE GRID IN EACH HORIZONTAL DIRECTION WILL REST FREE UPON THE SUPPORT ANGLE W/ 3/4" CLEARANCE BETWEEN GRID **END AND WALL**

D. STABILIZER BARS - LAY-IN ACOUSTIC PANEL CEILINGS OVER 144 SF:

• GRID MEMBERS PERPENDICULAR TO THE WALL AT THE UNATTACHED SIDES OF THE GRID SHALL BE TIED TOGETHER (STABILIZED) AT A POINT NOT MORE THAN 8" FROM AND PARALLEL TO THE WALL, TO PREVENT THEIR SPREADING.

E. VERTICAL SUPPORT:

- MAIN RUNNERS SHALL BE HUNG USING SPECIFIED WIRE AT MINUMUM 4" O.C. CROSS RUNNERS AND MAIN RUNNERS SHALL BE SUPPORTED WITH ADDITIONAL HANGER WIRES WITHIN 8" OF ANY
- DISCONTINUOUS END, INCLUDING PERIMETER SUPPORT ANGLES. HANGERS SHALL NOT PRESS AGAINST PIPER OR DUCTS. HANGERS MORE THAN 1:6 OUT OF PLUMB SHALL HAVE COUNTERSLOPING WIRES ADDED. COUNTERSLOPING HANGERS SHALL BE INSTALLED WITH A MINIMUM 45 DEGREE ANGLE FROM HORIZONTAL.
- PROVIDE A TRAPEZE MADE OF MAIN RUNNER STOCK WHERE OBSTRUCTIONS TO STRUCTURE REQUIRE DIRECT ATTACHMENT.
- HANGER WIRES SHALL ATTACH TO RUNNERS AND SUPPORT ABOVE WITH A MINIMUM OF THREE FULL TURNS WITHIN A 3 INCH LENGTH.

F. FIXTURE SUPPORT

- LIGHTING FIXTURES AND AIR DIFFUSERS SHALL BE SUPPORTED DIRECTLY BY 12GA WIRES TO THE
- STRUCTURE ABOVE BY A MINIMUM OF 4 HANGERS, ONE AT EACH CORNER. EXCEPTION: FIXTURES NOT OVER 56 LBS IN WEIGHT BUT MORE THAN 20 LBS IN WEIGHT MAY BE SUPPORTED AND ATTACHED DIRECTLY TO THE CEILING SYSTEM RUNNERS WITHIN 3" OF GRID INTERSECTIONS BY A POSITIVE ATTACHMENT SUCH AS SCREWS OR BOLTS, AND SHALL HAVE (2) # 12GA HANGERS DIRECTLY FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE. THESE MAY BE
- FIXTURES WHICH WEIGH NOT MORE THAN 20 LBS AND WHICH RECEIVE NO TRIBUTARY LOADING FROM DUCT WORK MAY BE POSITIVELY ATTACHED TO AND SUPPORTED BY THE CEILING RUNNERS ALONE.

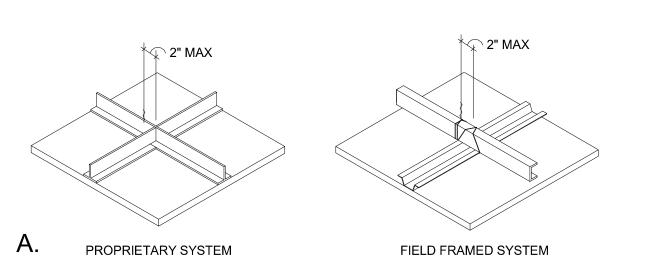
G. PENETRATIONS:

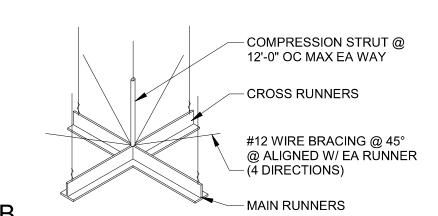
PROVIDE 1" CLEAR ON ALL SIDES OF PENETRATIONS.

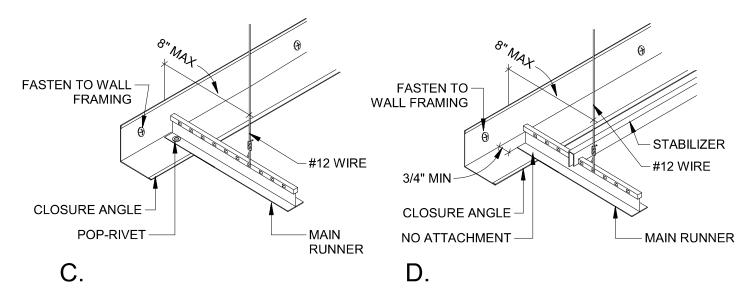
H. SEISMIC JOINTS:

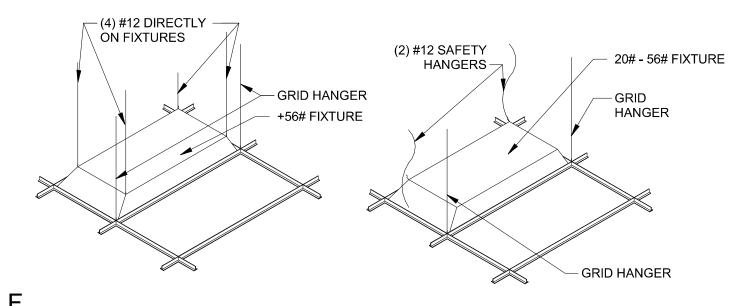
 PROVIDE MANUFACTURER'S STANDARD SEISMIC JOINT CLIP AT CEILING AREAS GREATER THAN 2500 SF

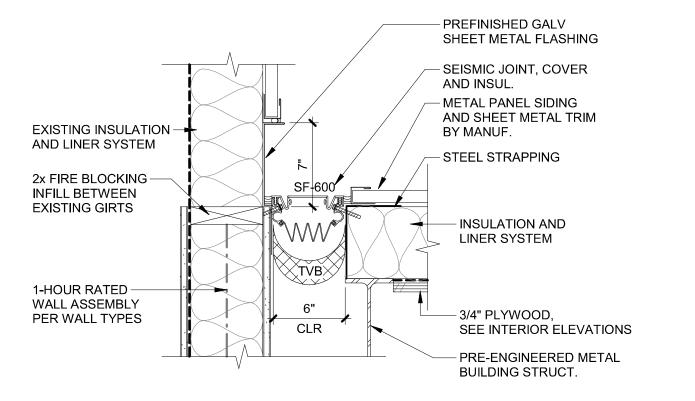
SUSPENDED CEILING REQUIREMENTS



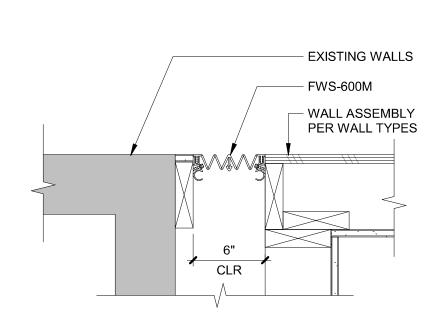




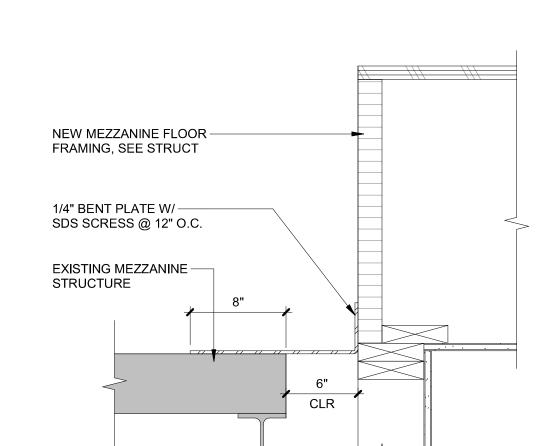




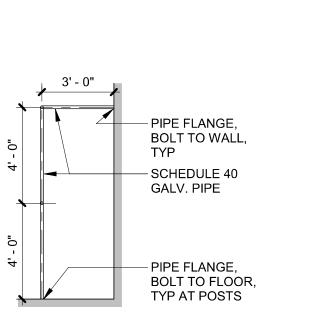
SEISMIC JOINT - WALL



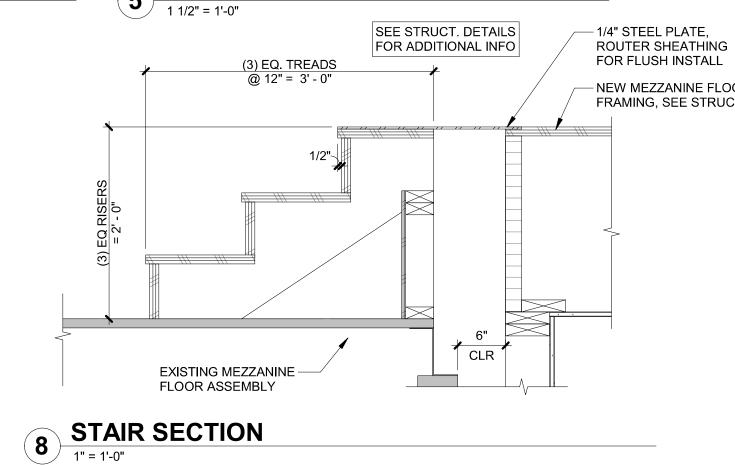
SEISMIC JOINT - INTERIOR WALL

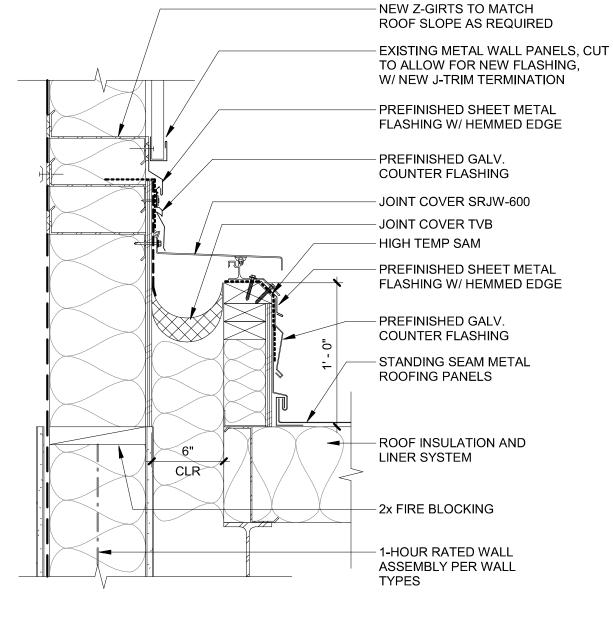


MEZZANINE JOINT DETAIL

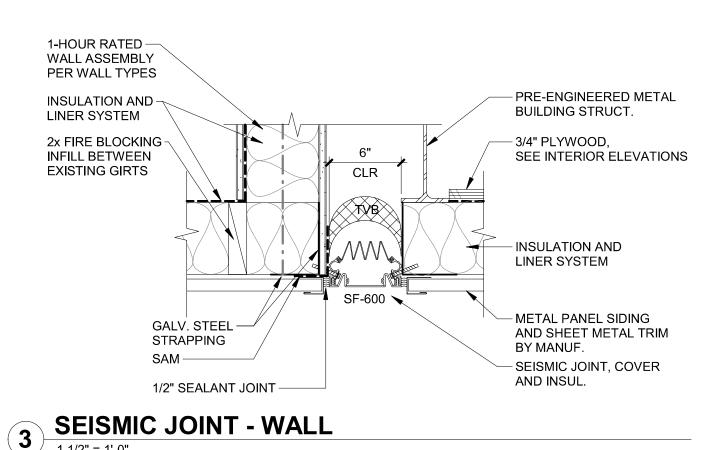


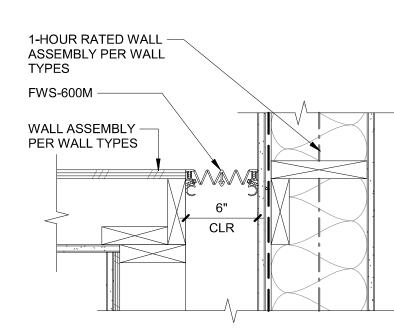




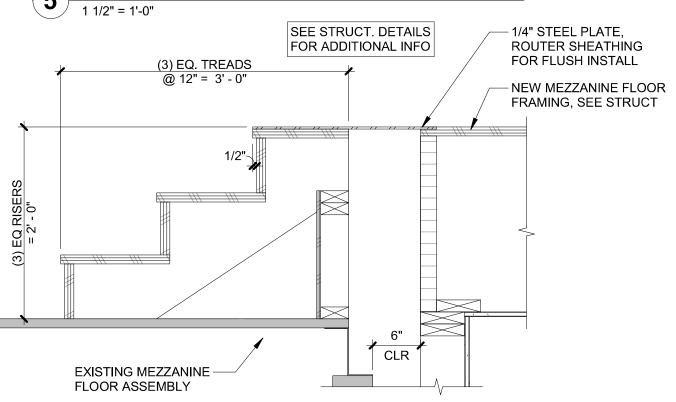


SEISMIC JOINT - ROOF TO WALL





5 SEISMIC JOINT - INTERIOR WALL



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CLACKAMAS

FIRE TRAINING

WAREHOUSE

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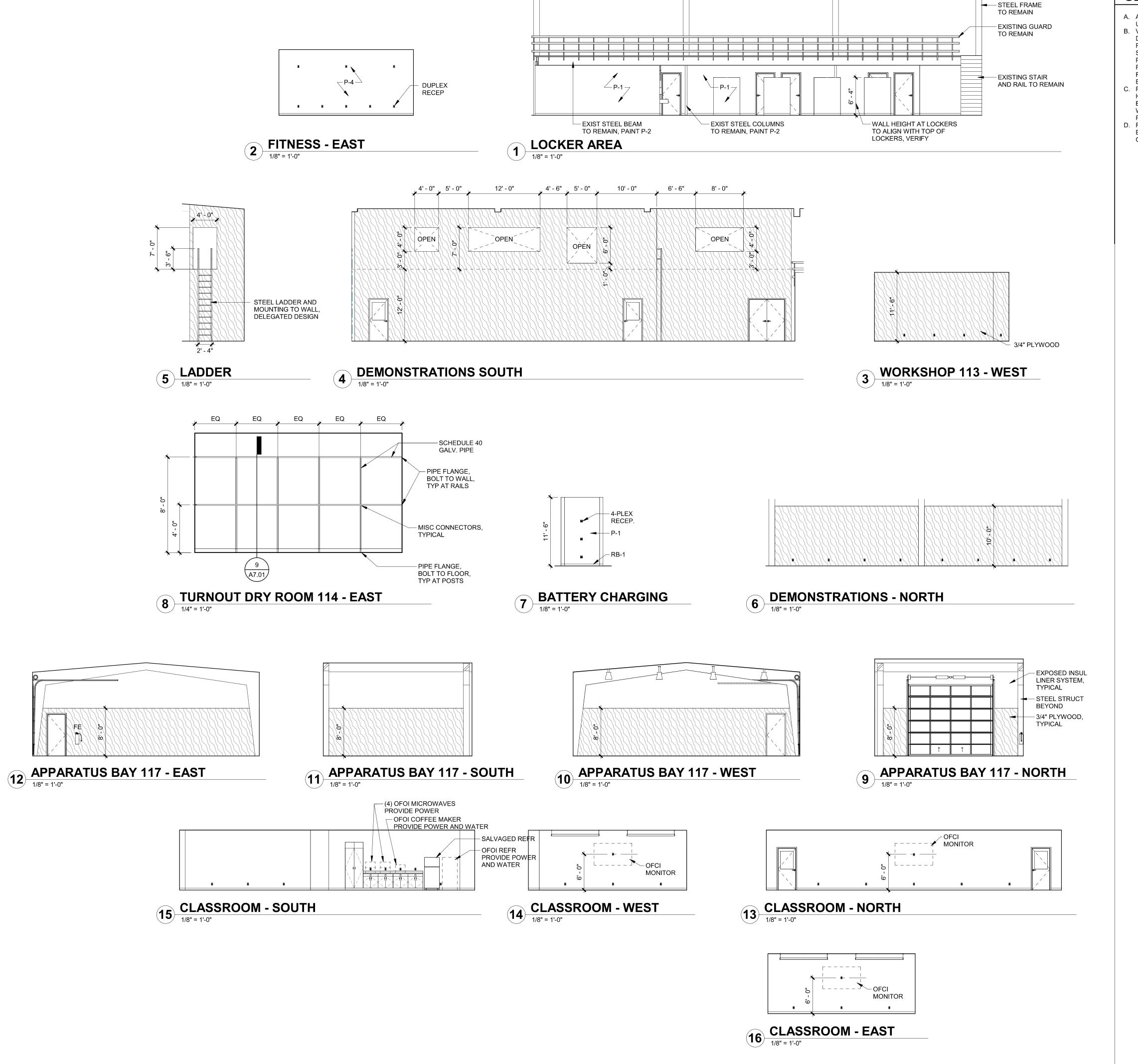
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12-20-2024 Date Issue

Drawing: **DETAILS**



GENERAL SHEET NOTES

A. ALL GYPSUM BOARD WALLS TO BE PAINTED P-1, UNLESS NOTED OTHERWISE.

B. VERIFY ALL EQUIPMENT AND FURNISHINGS DIMENSIONS AND MOUNTING / BACKING REQUIREMENTS PER MANUFACTURER'S SPECIFICATIONS. COORDINATE WORK TO ENSURE PROPER AND ADEQUATE PROVISIONS OF ALL REQUIRED UTILITY SIZING AND LOCATION, AND FOR INSTALLATION AND ANCHORAGE OF EQUIPMENT.

C. PROVIDE BACKING AT UPPER CABINETS, FULL HEIGHT CABINETS, ACCESSORIES, VISUAL DISPLAY BOARDS, WALL MOUNTED SHELVING AND ANY WALL-MOUNTED EQUIPMENT INCLUDING THOSE PROVIDED BY OWNER. D. FIELD VERIFY ALL DIMENSIONS AND REQUIRED

EQUIPMENT CLEARANCES PRIOR TO FABRICATION OF CABINETRY.

Scott

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CLACKAMAS FIRE TRAINING **WAREHOUSE**

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Issue

Drawing:

INTERIOR ELEVATIONS

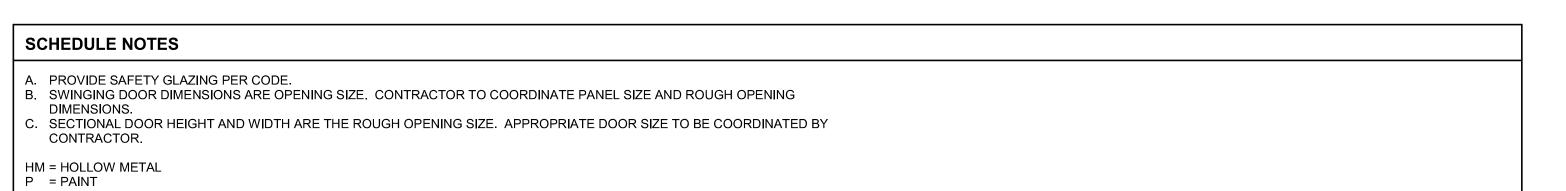
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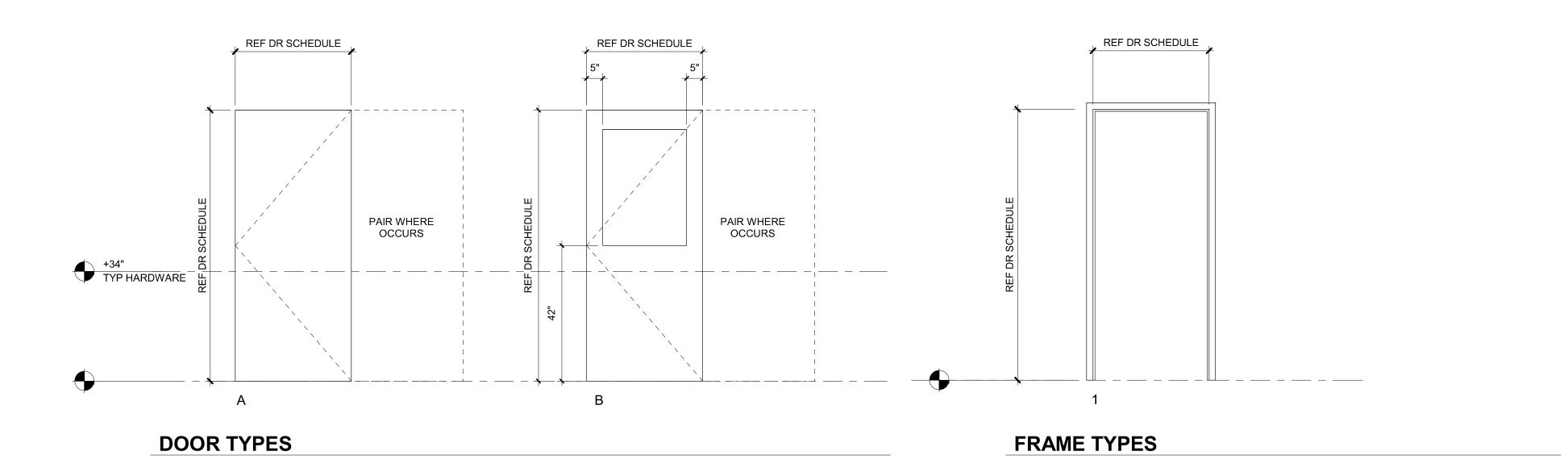
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				_						-		DOOR SCH	IEDULE				
				DOOR					FRAME	Ē		DETAILS					
DOOR NUMBER	ТҮРЕ	WIDTH	НЕІСНТ	THICKNESS	PAIR	CONSTRUCTION	FINISH	TYPE	CONSTRUCTION	FINISH	SILL	JAMB	НЕАD	GLAZING	FIRE RATING	HARDWARE	NOTES
FIRST FLOOR																	
102	Α	3' - 0"	7' - 0"	1 3/4"		HM	P	1	HM	Р						1	
103	A		7' - 0"	1 3/4"		HM	P	1	HM	Р						1	
104	A	3' - 0"	7' - 0"	1 3/4"		HM	P	1	HM	Р						2	
105	A	3' - 0"	7' - 0"	1 3/4"		HM	P	1	HM	Р						2	
106	A	3' - 0"	7' - 0"	1 3/4"		HM	Р	1	HM	Р						1	
107	Α	3' - 0"	7' - 0"	1 3/4"		HM	Р	1	HM	Р						1	
108	Α	3' - 0"	7' - 0"	1 3/4"		HM	P	1	HM	Р						1	
109	Α	3' - 0"	7' - 0"	1 3/4"		HM	Р	1	HM	Р						1	
110	Α	3' - 0"	7' - 0"	1 3/4"		HM	Р	1	HM	Ρ						1	
111	Α	3' - 0"	7' - 0"	1 3/4"		НМ	Р	1	НМ	Р						1	
115A	В	3' - 0"	7' - 0"	1 3/4"		НМ	Р	1	НМ	Р						3	
115C	В	3' - 0"	7' - 0"	1 3/4"		НМ	Р	1	HM	Р						3	
117A		14' - 0"	12' - 0"	2 1/8"												4	INSULATED OVERHEAD SECTIONAL DOOR
117B	Α	3' - 0"	7' - 0"	1 3/4"		НМ	Р	1	НМ	Р					45	5	
117C	Α	3' - 0"	7' - 0"	1 3/4"		НМ	Р	1	НМ	Р						6	
118	A	6' - 0"	7' - 0"	1 3/4"	PR	НМ	Р	1	НМ	Р						7	







2525 E Burnside St. Portland, OR 97214



CLACKAMAS FIRE TRAINING **WAREHOUSE**

Job Number:

16170 SE 130th AVE CLACKAMAS, OR. 97015



PERMIT SET

Drawing:

DOOR SCHEDULE

AND DOOR TYPES

12-20-2024

Sheet No:

A10.01

	ROOM FINISH SCHEDULE										
					W	ALLS	CEIL		.ING		
				NORTH	EAST	SOUTH	WEST				
No.	ROOM NAME	FLOOR	BASE	FINISH	FINISH	FINISH	FINISH	MATERIAL	FINISH	COMMENTS	
FIRST I	RST FLOOR										
101	FITNESS	RF-1	RB-1		P-4						
102	ADA RR/ SHOWER/ CHANGING	CONC-1	RB-1	P-1	P-1	P-1	P-1	GYP	P-1	EPOXY PAINT, FRP	
103	ADA RR/ SHOWER/ CHANGING	CONC-1	RB-1	P-1	P-1	P-1	P-1	GYP	P-1	EPOXY PAINT, FRP	
104	SHOWER	CONC-1	RB-1	P-1	P-1	P-1	P-1	GYP	P-1	EPOXY PAINT, FRP	
105	SHOWER	CONC-1	RB-1	P-1	P-1	P-1	P-1	GYP	P-1	EPOXY PAINT, FRP	
106	RR	CONC-1	RB-1	P-1	P-1	P-1	P-1	GYP	P-1	FRP, SEE INTERIOR ELEVATIONS	
107	RR	CONC-1	RB-1	P-1	P-1	P-1	P-1	GYP	P-1	FRP, SEE INTERIOR ELEVATIONS	
108	RR	CONC-1	RB-1	P-1	P-1	P-1	P-1	GYP	P-1	FRP, SEE INTERIOR ELEVATIONS	
109	RR	CONC-1	RB-1	P-1	P-1	P-1	P-1	GYP	P-1	FRP, SEE INTERIOR ELEVATIONS	
110	RR/ CHANGING	CONC-1	RB-1	P-1	P-1	P-1	P-1	GYP	P-1	FRP, SEE INTERIOR ELEVATIONS	
111	RR/ CHANGING	CONC-1	RB-1	P-1	P-1	P-1	P-1	GYP	P-1	FRP, SEE INTERIOR ELEVATIONS	
112	LOCKERS	CONC-1	RB-1	P-1	P-1	P-1	P-1		P-1		
113	WORKSHOP	CONC-1	RB-1								
114	TURNOUT DRY ROOM	CONC-1	RB-1	P-1	P-3	P-1	P-1	GYP	P-1	EPOXY PAINT	
115	CLASSROOM	CPT-1	RB-1	P-1	P-1	P-1	P-1	GYP	P-1		
116	DEMONSTRATIONS	CONC-1	RB-1								
117	APPARATUS BAY	CONC-1									
118	LAUNDRY		RB-1	P-1	P-1	P-1	P-1	(E)			

APER TOWEL DISPENSER 8"x36" MIRROR DILET PAPER DISPENSER ANITARY NAPKIN DISPOSAL	GEORGIA-PACIFIC BOBRICK BOBRICK	ENMOTION 59488A B-290	BLACK STAINLESS	
DILET PAPER DISPENSER			STAINLESS	
	BOBRICK	D 540		
ANITARY NAPKIN DISPOSAL		B-540	STAINLESS	
	BOBRICK	B-35139	STAINLESS	
DAP DISPENSER	GEORGIA-PACIFIC	ENMOTION 52057	BLACK	
EAT COVER DISPENSER	BRADLEY	583	STAINLESS	
JLL LENGTH MIRROR	BOBRICK	B-165 2460	STAINLESS	
DAT HOOK	BOBRICK	B-9541	STAINLESS	
RAB BARS	BOBRICK	B-5806	STAINLESS	1 1/4"dia; 18", 36", 4
ENCH	SALSBURY	77771-ADA	ALUMINUM	
AV	REGENCY	600HSMSF1872	STAINLESS	3
AV	AMERICAN STANDARD	9024.001EC	WHITE	
AUCET	MOEN	9419	CHROME	
AUCET	MOEN	T8346EP15, 8371HD Valve (verify)	BRUSHED NICKLE	@ EACH SHOWEI
DILET	KOHLER	K-31620-0	WHITE	SOFT CLOSE SEA
DA SHOWER	EVERFAB	S3838RFA1LP	WHITE	1
HOWER	EVERFAB	S3838RFA1LP	WHITE	2
EILING FAN	BIGASSFANS	12' dia HIGH VOLUME, LOW SPEED	BLACK	OR EQUAL
	LL LENGTH MIRROR AT HOOK AB BARS NCH / / JCET JCET JLET A SHOWER OWER	LL LENGTH MIRROR BOBRICK BOBRICK BOBRICK BOBRICK BOBRICK SALSBURY V REGENCY V AMERICAN STANDARD JCET MOEN JCET MOEN KOHLER A SHOWER EVERFAB EVERFAB	AT HOOK BOBRICK B-9541 BBARS BOBRICK B-5806 NCH SALSBURY 77771-ADA V REGENCY 600HSMSF1872 V AMERICAN STANDARD 9024.001EC UCET MOEN HOEN T8346EP15, 8371HD Valve (verify) ILET KOHLER SASSBURY K-31620-0 SS838RFA1LP OWER BOBRICK B-9541 B	LL LENGTH MIRROR BOBRICK B-9541 STAINLESS AB BARS BOBRICK B-5806 STAINLESS NCH SALSBURY 77771-ADA ALUMINUM REGENCY G00HSMSF1872 STAINLESS V AMERICAN STANDARD 9024.001EC WHITE UCET MOEN MOEN T8346EP15, 8371HD Valve (verify) BRUSHED NICKLE ILET KOHLER A SHOWER EVERFAB S3838RFA1LP WHITE WHITE

NOTES

A. CONTRACTOR TO PROVIDE BLOCKING AS REQUIRED FOR ALL ACCESSORIES.

B. CONTRACTOR TO ROUTE UTILITES IN WALL TO AVOID ALL RECESSED ACCESSORIES.

C. SEE TYPICAL MOUNTING HEIGHT DIAGRAMS AND INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.

BASE		RUBBER	FLOORING
RB-1 MFR PRODUCT COLOR SIZE	RUBBER WALL BASE TARKETT VINYL BASE W/ TOE TBD 4"	RF-1 MFR PRODUCT COLOR SIZE THICKNESS	RUBBER FLOORING ZANDUR TECHNE RUBBER TN3902 MALLET INTERLOCK 24"x24" 9 MM
CARPET		WALL PR	OTECTION
CPT-1 MFR COLLECTION PATTERN COLOR SIZE INSTALL	CARPET TILE INTERFACE NIGHT LIGHTS COLLECTION AGLOW POPPY 25CM X 1M ASHLAR	RFP MFR PRODUCT COLOR TRIM	FIBER REINFORCED PLASTIC MARLITE SMOOTH 100G WHITE ALUM CAP AND BASE TRIM, PVC TRIM AL OTHERS
		SOLID SU	IRFACE
PAINT		SSM-1 MFR PRODUCT COLOR	COUNTER/ BACKSPLASH CORIAN SOLID SURFACE WILLOW
PAINT SHEE WALLS - EGG CEILINGS - F	GSHELL, UNLESS NOTED OTHERWISE	FINISH THICKNESS	.5"
P-1 MFR COLOR	TYPICAL PAINT SHERWIN WILLIAMS LINEN WHITE	SSM-2 MFR PRODUCT COLOR FINISH THICKNESS	SLOAN SINK/ COUNTER CORIAN SOLID SURFACE CARBON AGGREGATE 5"
P-2 MFR COLOR	ACCENT PAINT SHERWIN WILLIAMS GRAY SCREEN, SW 7071	THE	
		T-1	WALL TILE
P-3 MFR COLOR	ACCENT PAINT SHERWIN WILLIAMS TEMPE STAR, SW 6229	MFR PRODUCT COLOR SIZE INSTALL	DAL TILE COLOR WHEEL LINEAR ARTIC WHITE 0190 3X6 RUNNING BOND
P-4 MFR COLOR	ACCENT PAINT SHERWIN WILLIAMS PEPPERCORN, SW 7674	T-2 MFR PRODUCT COLOR SIZE TRIM	COVE BASE DAL TILE COLOR WHEEL CLASSIS ARTIC WHITE 0190 6X6 S3619TN
		FLOORIN	G TRANSITIONS
PLASTIC	LAMINATE		O INSTALL PROFILES APPROPRIATE FOR YPE AND APPLICATION
PL-1 MFR PATTERN COLOR DIRECTION	PLASTIC LAMINATE WILSONART BEIGEWOOD 7850 - GRAIN DIRECTION TO RUN VERTICALLY		SITIONS TO BE LOCATED AT CENTERLINE LESS OTHERWISE NOTED.



2525 E Burnside St. Portland, OR 97214 503.226.36 seallp.co



CLACKAMAS FIRE TRAINING WAREHOUSE

Job Number:

16170 SE 130th AVE CLACKAMAS, OR. 97015



PERMIT SET

Issue

Drawing:

12-20-2024

FINISH SCHEDULE AND LEGEND

Sheet No:

A10.21

A.B.

ANCHOR BOLT

U.O.N.

V.I.F.

W.J.

W/

W/O

W.W.F.

VERT

UNLESS OTHERWISE NOTED

VERIFY IN FIELD

WELDED WIRE FABRIC

POUNDS or NUMBER PLUS or MINUS

VERTICAL

WET JOINT

WITHOUT

STRUCTURAL NOTES

01.0 GENERAL NOTES

1. These notes set minimum standards for construction. The drawings govern over the Structural Notes to

the extent shown. 2. Contractor shall verify all dimensions and conditions on drawings and in field. Coordinate locations of openings through floors, roofs and walls with architectural, mechanical and electrical plans. Notify owner's representative of any discrepancies.

3. Construction means, methods and all necessary temporary support prior to completion of vertical and lateral load systems is the sole responsibility of the contractor.

4. Compliance with all safety and OSHA requirements is the sole responsibility of the contractor. 5. All work shall be in compliance with 2022 edition of the "Oregon Structural Specialty Code- (OSSC) 2018 edition of the "International Building Code" (IBC) as amended by all other state and local codes, permits, and building department requirements that apply.

6. Where reference is made to ASTM, AISC, ACI or other standards, Code referenced issue shall apply. 7. Special inspection shall be provided as required by the OSSC and outlined in the special inspection

section of the structural drawings. 8. Design Criteria:

	Design Criteria			
Table 1604.5	Risk Catogory	II (Mezzanine), IV (PEMB)		
Roofs (PEMB)	Snow load (minimum)	20 psf x I _S + 5 psf rain on snow per OSSC 1608.2.3		
	Ground snow load, P _g (for drift calculations)	9 psf		
	Flat-roof snow load, P _f	9.07 psf		
	Snow exposure factor, C _e	1.0		
	Snow importance factor, l _s	1.2		
	Thermal factor, C _t	1.0		
Floors	Dead load	15 psf		
(Mezzanine)	Live load	100 psf		
Wind	Ultimate wind speed	109 mph, 3-sec gust		
(PEMB)	Wind exposure	B, N-S; B, E-W		
	Internal pressure coeff, GC _{pi}	+/- 0.18		
	Components and cladding	Per ASCE 7, Chpt 30		
Seismic	Mapped spectral response, S _S and S ₁	0.829 and 0.366		
	Site class	D		
	Seismic importance factor, I _E	1.0 (Mezzanine), 1.5 (PEMB)		
	Spectral response coeff., S _{DS}	0.663		
	Seismic design category	D		

9. Details shown on the drawings are intended to apply at all similar conditions and locations.

Do not scale information from drawings.

02.0 FOUNDATIONS

1. Design soil bearing pressure is 1500 psf for Dead Load + Live Load, per the presumptive values of OSSC 2022 Table 1806.2.

2. All footings shall bear on firm, undisturbed soil or approved compacted fill. Footings shall bear at a minimum of 18 inches below final grade. Remove all organic material or soft areas in footing excavations. Provide and install structural fill as necessary. Notify owner's representative before proceeding if any unusual conditions are encountered in the footing excavations.

3. Use smooth edged backhoe bucket without teeth to excavate footing trenches, and clean all footing excavations of loose material by hand.

4. Excavations may be made under continuous footings for pipes. Back fill with 3/4-inch minus crushed rock compacted in 8 inch lifts to 95 percent modified Proctor maximum dry density per ASTM D1557 or AASHTO

5. Base material immediately under slab shall be a 6-inch layer of clean 3/4-inch minus crushed rock compacted to at least 92 percent modified Proctor maximum dry density in accordance with ASTM D1557 or AASHTO T-180.

03.0 CONCRETE

1. Strength: Average concrete strength as determined by job cast, lab cured cylinder shall be per the table below plus increase depending upon the plant's standard deviation as specified in ACI 318. Four (4) test cylinders meeting ACI 318 Section 26.12 shall be taken at each pour. One (1) cylinder shall be tested at 7 days and three (3) cylinders shall be tested at 28 days. Test reports are to include minimum and maximum cure box temperatures.

Use	At 28	Days	Non AE	AE	Aggregate	CLASS ²			
PEMB Foundations	3,5	00		0.46	1"	F1			
Uses indicated are for concrete elements identified on the structural drawings.									
Total Air Content for Co Cycles of Freezing	•		Minimur		ious Material Co Floors	ntent for			
Nominal Maximum	Target Air Content		Nominal	Maximum	Minimum Cerr	entitious			

Strength, f'c psi Max W/C ratio

Aggregate Size, in

MINIMUM Mix Requirements: a. Slabs-on-grade and beams poured integral with floor slabs shall have a minimum cementitious material content as noted in the table based on nominal maximum size of aggregate used.

4.5%

 c. Add supplementary cementitious material to slab on grade and exposed wall concrete mixes. Supplementary cementitious material to be slag or fly ash. Do not add fly ash to air entrained mixes without making adjustments for potential loss of air. Limits on maximum percentage of total cementitious material by mass to be 20% for fly ash conforming to ASTM C618 with loss on ignition of 3% or less and 50% for slag conforming to ASTM C989 and added per ASTM C595. Include supplementary cementitious material in the water cement ratio. Supplementary cementitious material may be added to other concrete mixes and included in the water cement ratio but is not to be used as part of the minimum cement content. Contractor to consider late strength development and finishing for mixes with supplementary cementitious material. d. Design slump: Minimum 3", maximum 9". Field variation from design slump +1/2 inch to -1 inch. When concrete is to be pumped add plasticizers and provide a new mix design to increase slump to a pumpable mix. Do not add water at the jobsite unless authorized by the concrete supplier.

e. Air Entrainment: For mix designs subject to freezing-and-thawing exposure classes F1, F2 and F3 shall be air entrained per the table. Where $fc \ge 5000$ psi, reduction of air content per the table by 1.0 percentage point is permitted.

f. Admix: Water reducing admix (Pozzolith/Polyheed/Rheobuild or equal). g. All admixtures are to be from the same manufacturer unless evidence is submitted verifying compatibility

of multiple source admixtures 2. Place and cure all concrete per ACI codes and standards 3. Sleeves, pipes or conduits of aluminum shall not be embedded in structural concrete unless effectively

coated. 4. Provide control joints in all slabs on grade. Joints are to be installed at 14 to 16 feet on center each way maximum unless shown otherwise on the drawings. All saw-cut joints in concrete slabs to be made with an early cut saw as soon as possible after placing but no later than one hour after finishing. 5. Provide 1/4-inch premolded expansion joint material between slabs and walls that are not doweled

03.1 REINFORCING (CONCRETE)

together, and around columns that do not have slab blockouts.

1. All reinforcing steel shall be ASTM A615, Grade 60. 2. Fabricate reinforcing steel according to ACI 315, Details and Detailing of Concrete Reinforcement. Install reinforcing per CRSI MSP-1, ACI 301 and ACI 318.

3. Lap all bars in intersecting footings 2'-0" or 45 diameters, whichever is greater.

03.2 CONCRETE ANCHORS

1. Epoxy Anchors: Simpson SET-3G.

a. Unless noted, install threaded rods into clean, dry holes to embed depth as shown on drawings. Comply with manufacturer's ICC-ES report for hole diameter and rod material. If embed depths are not shown, use manufacturer's minimum depths. Fill hole with enough epoxy to fill all void spaces and insert rod with clockwise twisting motion.

b. Do not place when epoxy or concrete is less the 50 degrees Fahrenheit, unless special products for cold weather are used: Simpson AT-3G, Hilti HIT HY 200 or DeWalt AC200+.

c. Do not cut main reinforcing or break out back surface when drilling holes. 3. Screw Anchors: Simpson Titen HD.

a. Install to clean, dry holes to embed depth +1/2" as shown on drawings. Comply with manufacturer's ICC ES report for hole diameter. If embed depths are not shown, use manufacturer's minimum depths. b. Do not cut main reinforcing or break out back surface when drilling holes.

c. Tighten the anchor into the base material until the head contacts the fixture. d. Provide standard washer under heads in contact with wood.

e. Special inspection of holes is required prior to installing screw anchors. See the Special Inspection section of these notes.

05.0 STRUCTURAL AND MISCELLANEOUS STEEL

1. Detailing, fabrication and erection shall conform to the Steel Construction Manual of AISC. 2. The contractor shall be solely responsible for all OSHA requirements for safety and erection including, but not limited to, erection bolts, bracing, fall protection, guard rails, etc. 3. All threaded rods shall be ASTM A36, unless otherwise noted.

05.4 LIGHT GAUGE METAL FRAMING

1. All light gauge steel shapes shall be 33 ksi material per ASTM A1003, Grade 33 Type H for 18 gage and lighter, and 50 ksi per ASTM A1003 Grade 50 Type H for 16 gage and heavier, unless noted otherwise. Shapes shown are per Steel Stud Manufacturers' Association. Manufacturer's shapes with equal or greater A. I. S. and R factors may be substituted provided they have ICC-ES research reports. Studs and blocking shall be punched 'C' studs of 20 gage (minimum) material with 1-3/8 inch wide (minimum) stiffened flanges, unless otherwise noted.

2. Design of framing members shall comply with AISI Cold Formed Steel Design Manual. 3. Screws for connecting steel framing members shall be self-drilling, self-tapping screws with minimum fy = 33 ksi.

05.6 MANUFACTURED METAL BUILDINGS

1. All metal building components shall be designed and fabricated per AISC and AWS specifications for the

following design loads: a. Roof Snow Load Per Section 01.0 Design Criteria

Roof Dead Load As calculated by manufacturer plus 5 psf collateral load

b. Wind Per Section 01.0 Design Criteria c. Seismic Per Section 01.0 Design Criteria and loads noted in details

d. Calculated horizontal drift for seismic (Δs) and wind loading shall be limited to h/100. 'h' shall be defined

as the eave height above finish grade. 2. The building system shall include all the structural framing, secondary framing, roofing, siding, bracing, fasteners, sealants, and any other component parts of the metal building above the concrete slab and foundation. This includes fasteners to the concrete slab and foundation.

3. The connection of the building columns to the foundation shall be modeled and designed as a pinned connection.

4. The building width and length shall be measured from the outside face and shown as such on the metal building shop drawings.

5. Metal building manufacturer shall submit the following to the architect for review by the structural engineer of record and the local jurisdiction.

a. Shop drawings, stamped by a professional engineer registered in the State of Oregon, of the proposed structure showing plan view layouts of all members and anchor bolts including connection details for all framing members. List design loads used in design of the building and any special components. b. Structural calculations, stamped by a professional engineer registered in the State of Oregon, showing design loads and calculations for all components of the building including a summary of column reactions for all load combinations.

6. Special inspection of all shop and field welding is to be performed by an approved independent testing laboratory (a list of independent testing laboratories registered with the Oregon Building Officials Association is available on the OBOA website). The tests shall include visual inspection of all welds, ultra-sound inspection of full penetration welds and during the installation of high strength bolts. 7. Foundations for manufactured metal buildings shall not be formed until column reactions from the building manufacturer's engineer have been submitted to, reviewed and returned by WDY. 8. The metal building manufacturer is to inspect the building after all building components have been installed and submit a certificate to owner, architect, structural engineer, contractor, and building official that the inspection was made and that all components are in acceptable condition and meet with the design and installation requirements of the project and the manufacturer.

06.0 WOOD FRAMING

EXP

520

Aggregate Size, in material content, lb/yd3

1. All lumber species and grade to be as follows:

Joists, beams and stringers (2x & 4x)	DF #2-19 percent M.C.
Bucks, blocking, bridging and misc.	DF #3 or better
Structural 2x studs	DF #2-19 percent M.C.
Plates, sills and headers for wall framing	DF #2 K.D 15 percent M.C.
Posts	DF #1 - 19 percent M.C.
Sills, ledgers, plates, etc embedded in or in contact with concrete, not exposed to weather	Pressure treated Hem Fir #2 AWPA UC2 (ACZA Not Allowed)

Where moisture content is provided, do not install framing if members exceed noted moisture content

3. All engineered wood to meet the following criteria:

All engineered wood to meet the following chteria.				
M aterial	Grade	Fb	F۷	Е
Laminated Veneer Lumber (LVL)	2.0E	2,600 psi	285 psi	2.0 x 10 ⁶ psi
Laminated Strand Lumber (LSL)	1.55E	2,325 psi	310 psi	1.55 x 10 ⁶ psi

Approved manufacturers: RedBuilt LLC, LP Building Products or iLevel, a Weyerhaeuser business. 4. Sheathing shall be APA Rated plywood sheathing or Sturd-I-Floor, C-D grade, Exposure 1 with Performance Category and Span Rating as noted below. Each sheet shall bear an APA stamp. Install roof and floor sheathing with face grain perpendicular to supports and stagger end joints. Install wall sheathing either horizontal or vertical, and block all edges of sheathing with 2x4 or thicker blocking. Block roof and floor sheathing where noted on drawings and where plywood widths are less than 12 inches wide. Glue floor sheathing to all supports. Protect all sheathing from weather damage and moisture. Replace all buckled or soft sheets. Do not cover sheathing with permanent roofing or finishes until sheathing has a

noisture content of less than 19%.		
ocation	Performance Category	Span Rating
Nalls .	15/32	32/16
Floors	23/32 T&G	24 oc

5. Framing anchors, joist hangers, post caps, etc., shall be by 'Simpson Strong-Tie'. Install per manufacturer's recommendations for tabulated maximum capacities with fasteners installed in all holes. Framing anchors attaching to pressure treated lumber shall be Z Max coated or hot dipped galvanized and attached with hot dipped galvanized (2.0 oz per square foot) or stainless steel nails or screws. Framing anchors installed at exterior locations exposed to weather are to be stainless steel with stainless steel

6. All nailing shall be per IBC Table 2304.10.2. Nails called for on the drawings shall be common for plywood nailing; box nails for framing; and type recommended by manufacturer for maximum capacity of hangers and connectors. Nail heads shall not penetrate the face veneer of plywood panels.

7. Nails, bolts or lags in pressure treated lumber shall be hot dipped galvanized or stainless steel. 8. Cutting and notching of joists not allowed. A one-inch (1") diameter hole may be drilled in the center 1/3 of width of member depth. All other holes shall be approved.

9. Studs may be notched in the lower 1/5 of the height of stud for electrical and plumbing pipes, but no part of the notch is to be deeper than 25 percent of width of stud. Holes of diameters up to 1/3 of width of stud may be drilled in stud but not in center 1/3 of height. The edges of drilled holes are to be at least 5/8 inch from the face of the stud.

10. Provide deflection space over all non-bearing walls located under open-web and plate connected wood

11. Lag bolts shall be installed in lead holes as follows:

a. The lead hole for the shank shall have the same diameter as the shank and the same depth as the length of the unthreaded shank.

b. The lead hole for the threaded portion shall have a diameter equal to 70 percent of the shank diameter and a length equal to at least the length of the threaded portion.

c. The threaded portion or the screw shall be inserted in its lead hole by turning with a wrench, not by driving with a hammer. Soap or other lubricants may be used on the screws or in the lead hole to facilitate insertion and prevent damage to the screw.

06.12 WOOD I-JOISTS

1. All wood I-joists shall be manufactured and designed by Red Built, LLC or a prior approved joist manufacturer. Manufacture joists to the load requirements noted in Section 01.0 of these structural notes and the following:

a. Allowable increase in wood roof member stresses due to duration of loading per NDS for wood construction.

b. I-joist chords shall be LVL material meeting the requirements noted in Section 06.0 of these notes. 2. Substitute joist manufacturers shall meet or exceed strength and stiffness of Red Built products shown and/or noted. Do not change spacing, layout or depth without written approval. 3. Location and number of joists shown are diagrammatic only. Additional joists or multiple joists may be

required depending upon design or bearing requirements. 4. Provide additional joists as necessary to support mechanical units and sprinkler lines. Coordinate all

loads and locations with mechanical drawings. 5. All bridging, bearing hardware, blocking, hangers, etc., that connects to the joists shall be designed and provided by the joist manufacturer to fit the condition. Use sloped seat hangers and beveled plates as

required. Provide load transfer blocks at multiple members. 6. Holes through joist webs shall follow the written recommendations of the joist manufacturer. Do not cut or drill joist chords.

7. Design and installation of temporary erection bracing is the sole responsibility of the contractor. If temporary loads are to be imposed on permanent walls, floors or structural elements, redesign permanent structure to support temporary loads.

8. Joist erector shall erect and brace joists per the requirements of the joist manufacturer, contractors bracing design, and all applicable codes and government agencies. 9. Shop drawings shall be submitted and stamped by a professional engineer registered in the State of

Oregon. Submit an ICC-ES report, and comply with all the requirements of the report. 10. Joist manufacturer shall inspect all joists after they have been erected and sheathing, bridging, blocking, etc., has been installed. Manufacturer shall submit a certificate to architect, engineer, contractor, owner and building official that the inspection was made and that the joists are in acceptable condition and meet with the manufacturers' design and installation requirements.

Deferred submittal items per OSSC 107.3.4.1 shall be submitted to the Engineer of Record. All deferred submittals shall include calculations and erection drawings and details and be stamped by a professional engineer registered in the State of Oregon (Specialty Engineer) and shall be the sole responsibility of the Specialty Engineer including, but not limited to, design, coordination, dimensions and intended purpose. Deferred submittal items shall include a quality assurance plan as required by Chapter 17 of the OSSC. Review by the Engineer of Record shall be for general conformance to the design loading criteria set forth on the drawings and specifications. The deferred submittal items shall not be fabricated or installed until the design and submittal documents have been reviewed by the Engineer of Record and approved by the building official. Deferred submittal components designed by others shall not induce torsional forces in engineering of record designed structural members. Torsional bracing shall designed by the deferred submittal specialty engineer and included in the deferred submittal. Transfer of lateral forces into the structural diaphragm for elements that are fastened to floor/roof framing shall be included in the deferred submittal.

Deferred Submittal List: i. Pre-engineered metal buildings (PEMB) ii. Wood I-Joists iii. Fall restraint apparatus & connection to structure IV. Guardrails V. Ship ladders

EXPIRES: 12-31-2025

2525 E Burnside St.

Portland, OR 97214

503.226.3617

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CLACKAMAS FIRE TRAINING **WAREHOUSE**

Job Number:

16170 SE 130th AVE CLACKAMAS, OR 97015



PERMIT SET

Issue

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STRUCTURAL NOTES &

SPECIAL INSPECTIONS &

FOUNDATION & MEZZANINE

ABBREVIATIONS

FRAMING PLANS

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DETAILS

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S4.01

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STRUCTURAL NOTES & ABBREVIATIONS

2024.12.20

Date

SHEAR WALL SCHEDULE					
MARK	SHEATHING 1,2,3,7	PANEL EDGE NAILING 4,5,6, 8,9	SILL ¹⁰	SILL PLATE 11,12 ANCHOR	RIM JOIST TO TOP PLATE ANCHOR
SW6	15/32" RATED SHEATH. ONE FACE	10d AT 6" O.C.	2x (U.O.N.)	5/8" DIA A.B.'s AT 32" O.C. OR 16d SINKERS AT 6" O.C. AT WOOD	SIMPSON A35 OR LTP4 AT 24" O.C.

SHEAR WALL NOTES:

- 1) SHEAR WALL SHEATHING SHOWN BY DARK LINE ON PLANS
- 2) BLOCK AND NAIL ALL PLYWOOD PANEL EDGES WITH 2x MIN. THICK BLOCKING
- 3) WHERE SHEATHING IS CALLED OUT EACH FACE, OR NAILING IS 4" O.C. OR LESS, OFFSET PANEL JOINT TO FALL ON DIFFERENT STUDS OR PROVIDE 3x OR THICKER STUDS WITH NAILS ON EACH SIDE STAGGERED. USE 3x BLOCKING.
- 4) FOR PLYWOOD. SHEATHING, USE COMMON NAILS, OF THE FOLLOWING SIZES: 8d: .131" DIA x 2 1/2" MIN.
- 5) NAIL HEADS ARE NOT TO PENETRATE FACE PLY OF SHEATHING.
- 6) EXTEND ALL SHEAR WALL SHEATHING TO THE TOP PLATE OF THE FLOOR FRAMING OR ROOF FRAMING LEVEL ABOVE AND TO END POSTS WITH HOLDOWNS.
- 7) FASTENER SPACING AT INTERMEDIATE FRAMING MEMBERS SHALL BE 12" O.C. FOR PLYWOOD.
- 8) EDGE NAIL PLYWOOD TO ALL POSTS WITH HOLDOWNS, TO TOP WALL PLATE AND SILL PLATE
- 8) WHERE SHEAR WALL SHEATHING OCCURS EACH FACE OR WHEN SHEATHING IS INSTALLED ONLY ON PART OF A WALL, ADD FURRING TO ENTIRE FACE OF WALL AS REQUIRED TO PROVIDE EVEN FINISHES.
- 9) USE PRESSURE TREATED (P.T.) SILL PLATES WHEN IN CONTACT WITH CONCRETE
- 10) SILL ANCHOR BOLTS TO BE HOT DIPPED GALVANIZED 5/8"DIAx6" TITEN HD SCREW ANCHORS WITH 4" MINIMUM EMBEDMENT INTO CONCRETE. INSTALL A MINIMUM OF (2) ANCHOR BOLTS PER PIECE OF SILL PLATE, WITH (1) ANCHOR BOLT LOCATED NOT MORE THAN 12" OR LESS THAN 4" FROM EACH
- 11) USE HOT DIPPED GALVANIZED 3"SQx1/4" PLATE WASHERS UNDER NUTS. INSTALL SQUARE TO WALL W/ WASHER PLACED 1/2" FROM FACE OF PLATE ON SHEATHING SIDE.

	HOLDOWN SCHEDULE				
IARK	HOLDOWN ^{2,3,5} AND POST	POST ANCHORS ¹	ANCHOR BOLT 4	STRAP END LENGTH	
2	SIMPSON HDU2-SDS2.5 W/ (2) 2x STUDS	(6) SDS 1/4 x 2 1/2	5/8"DIA F1554 GR. 36 THREADED ROD DRILLED AND EPXIED W/ ST-3G - 4" MIN EMBED	NA	

HOLDOWN NOTES:

- 1) "SDS" DESIGNATES "STRONG DRIVE SCREW" BY SIMPSON.
- FIRST DIMENSION LISTED IS MINIMUM WIDTH REQUIRED. UNLESS SHOWN OTHERWISE ON PLAN.
- 3) NAIL SHEATHING TO ALL HOLDOWN POSTS W/ EDGE NAIL SPACING PER SHEAR WALL SCHEDULE.
- 4) WHEN HOLDOWN POSTS CONSIST OF MULTIPLE 2x STUDS, NAIL ALL STUDS TOGETHER WITH PAIRS 16d AT 4" O.C. STAGGERED FOR FULL HEIGHT OF

CONSTRUCTION OBSERVATION, INSPECTION AND TESTING

A. GENERAL

- Independent testing lab to be retained by owner to provide inspections and special inspections as described herein.
- 2. Contractor is responsible to coordinate and provide on_site access to all required inspections and notify testing lab in time to make such inspections.
- 3. Do not cover work required to be inspected prior to inspection being made. If work is covered, uncover as necessary.
- 4. The contractor shall correct all deficiencies noted in the special inspection reports and/or the engineers field observations reports to bring the construction into compliance with the contract documents, addendum, RFI's and/or written instructions. The contractor is responsible to request summary reports from the special inspector and engineer of record at the time of the project substantial completion. Prior to requesting the Summary Structural Observation Report from the engineer of record the contractor shall submit to the architect and engineer of record a letter stating that all outstanding items noted on previous Structural Observation Reports have been completed in accordance with the contract documents, addendum, RFI's, and/or written instructions.

B.STRUCTURAL OBSERVATIONS

- Structural observations by the engineer of record or his representative shall be required at the following times during construction:
- As soon as the mezzanine ground level shear walls and mezzanine floor framing and sheathing are in place, prior to covering with any architectural finishes.
- 2. The contractor shall notify the engineer of record four (4) calendar days in advance of above times requiring site observation.

C. SPECIAL INSPECTIONS

Required special inspections shall be performed by an independent special inspector per Section 1703.1 of the Oregon Structural Specialty Code (OSSC) for the items listed in the following tables.

- 1. Items checked with X shall be inspected in accordance with OSSC Chapter 17 by certified special inspectors from a testing agency approved by the building official.
- Special inspection is not required for work performed by an approved fabricator meeting the requirements
- of OSSC Section 1704.2.5.1.

 3. The special inspector shall provide a copy of their report to the owner, architect, structural engineer,
- contractor and building official.

 4. Continuous special inspection means full-time observation of the work requiring special inspection by an approved special inspector present in the area where the work is being performed. Periodic special inspection means part time or intermittent observation of the work at intervals necessary to confirm that
- work requiring special inspection is in compliance.

 5. All bidder designed components where special inspections or tests are required by OSSC Section 1705 shall prepare a statement of special inspections in accordance with OSSC Section 1704.2.3.

Туре	Continuous	Periodic	Reference Standard	Code Ref
Inspect reinforcement, including prestressing tendons, and verify placement		Х	ACI 318: Ch. 20, 25.2, 25.3, 26.6.1-26.6.3	
2. Inspect anchors cast in concrete		Х	ACI 318: 17.2.5	
Inspect anchors post installed in hardened concrete members				
Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads	х		ACI 318: 17.2.5	
 b. Mechanical anchors and adhesive anchors not defined in 4.a. 		Х		
4. Verify use of required mix design		Х	ACI 318: Ch. 19, 26.4.3, 26.4.4	1904.1, 1904.2
5. Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine temperature of concrete	х		ASTM C31 ASTM C172 ACI 318: 26.5, 26.12	
6. Inspect concrete and shotcrete placement for proper application techniques	х		ACI 318: 26.5	
7. Verify maintenance of specified curing temperature and technique		Х	ACI 318: 26.5.3-26.5.5	
8. Inspect formwork for shape, location and dimensions of the concrete member being formed		х	ACI 318: 26.11.1.2.(b)	

1. Where 4x8-in cylinders are used for compressive strength testing, a multiplier of 0.94 shall be applied to the results to obtain average strength data.



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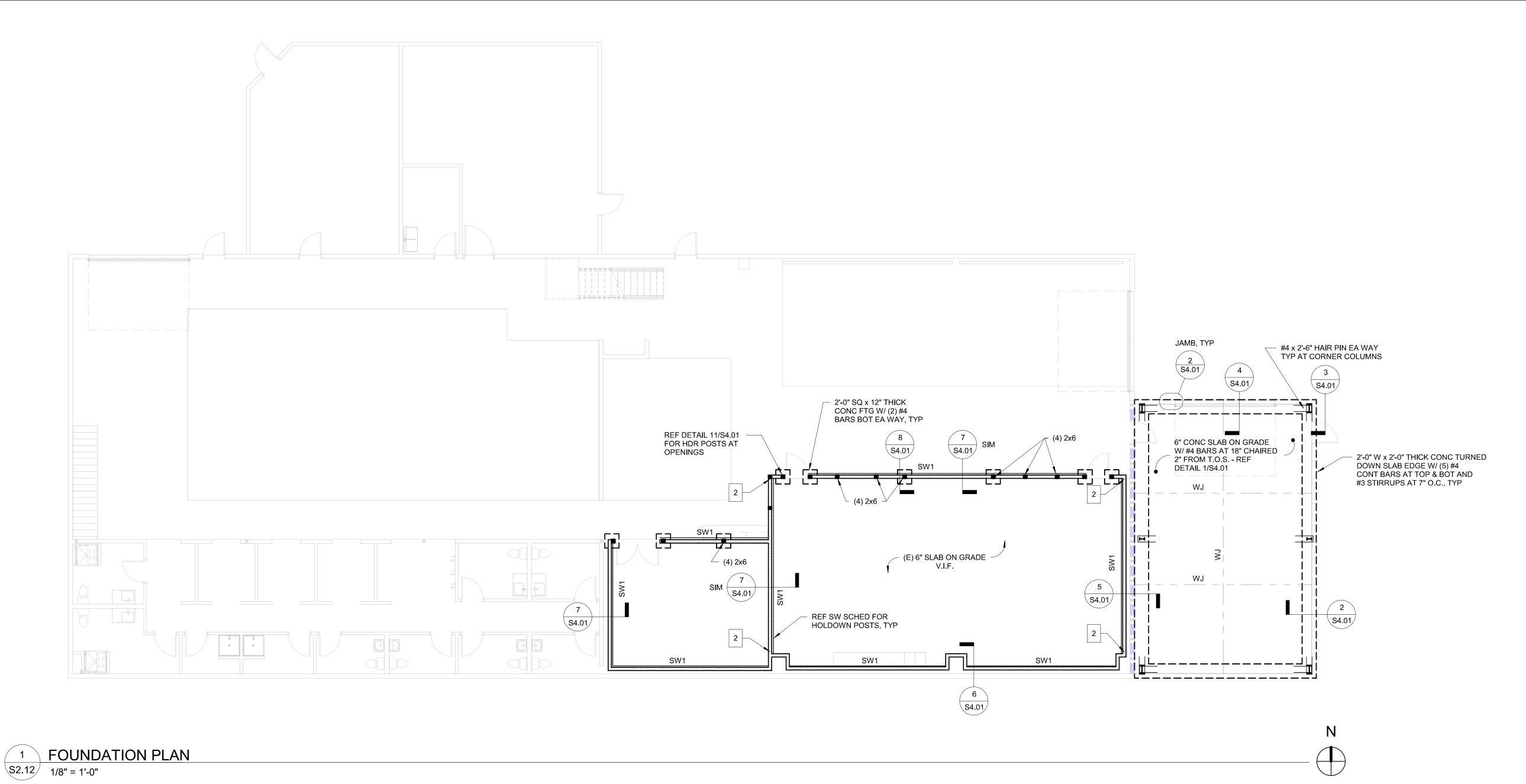
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SPECIAL INSPECTIONS & SCHEDULES

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Drawing:

PLANS

FOUNDATION &

S2.12

MEZZANINE FRAMING

12.20.2024

