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PROJECT DATA

LEGAL JURISDICTION:	--
ZONING CLASSIFICATION :	RPF
TAX MAP NO. :	18-02-34-00
LOT :	01900
OCCUPANCY :	E
BUILDING TYPE :	V-B
REMODELED AREA :	1425 SQ.FT.
RESIDENTIAL STRUCT. CODE:	O.R.S.C.-2023
COMMERCIAL STRUCT. CODE:	O.S.S.C.-2022
ACCESSIBILITY CODE:	ICCA117.1-2017
MECHANICAL CODE:	O.S.M.C.-2022
PLUMBING CODE:	O.P.S.C.-2023
ELECTRICAL CODE:	O.E.S.C.-2023
FIRE CODE:	O.F.C.-2019
ENERGY CODE:	O.E.E.S.C.-2021

PROJECT TEAM

ARCHITECTURAL CONSULTANT

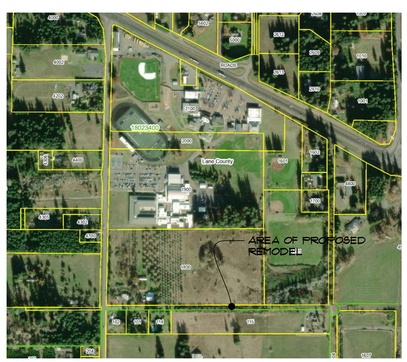
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VICINITY MAP



ARCHITECTURAL SYMBOLS

COLUMN GRID NOTATION
MATCH SIDE BREAK - MATCH LINE
Ø'-Ø" A.F.F. ELEVATION DATUM
DATUM POINT
XXX ROOM NAME
XXX ROOM NUMBER
12 SLOPE TAG
KEY NOTE
WINDOW TAG
DOOR TAG

SAND
GRAVEL
CONCRETE
GENERAL MASONRY
UNDISTURBED SOIL
WOOD
STEEL
REVISION TAG
REVISION CLOUD

DETAIL • / SHEET •
SECTION • / SHEET •
NORTH ARROW
REFERENCE ARROW
VIEW •
FG# DIRECTION OF VIEW
EXISTING WALL
DEMO WALL
NEW WALL

SOUND / THERMAL BATT INSULATION
RIGID INSULATION

ARCHITECTURAL ABBREVIATIONS

A.C. ACOUS.	ACOUSTICAL	FPRF.	FIREPROOF	PRCST.	PRE-CAST
A/C	AIR CONDITIONING	F.R.	FIRE RETARDANT	PL.	PLATE
A.D.	AREA DRAIN	F.S.	FULL SIZE	P.LAM.	PLASTIC LAMINATE
ADJ.	ADJUSTABLE	FT.	FOOT OR FEET	PLAS.	PLASTER
AGGR.	AGGREGATE	FTG.	FOOTING	PLYWD.	PLYWOOD
AL.	ALUMINUM	FURR.	FURRING	PR.	PAIR
ALT.	ALTERNATE	FUT.	FUTURE	PT.	POINT
APPROX.	APPROXIMATE	F.V.	FOUNDATION VENT	P.T.D.	PAPER TOWEL DISPENSER
ARCH.	ARCHITECT(URAL)			P.T.D/R	PAPER TOWEL DISPENSER/RECEPTACLE
ASB.	ASBESTOS	G.A.	GUAGE	PTN.	PARTITION
ASPH.	ASPHALT	GALV.	GALVANIZED	P.T.R.	PAPER TOWEL RECEPTACLE
A.B.	ANCHOR BOLT	GAL.	GALLON	P.T.	PRESSURE TREATED (WOLMINIZED)
A.H.	AIR HANDLER	G.B.	GRAB BAR	Q.T.	QUARRY TILE
A.S.U.	AIR SUPPLY UNIT	G.F.I.	GROUND FAULT INTERUPTOR		
ANOD.	ANODIZED	GL.	GLASS	R.	RISER
APPL.	APPLIANCE	GND.	GROUND	RD.	ROOF DRAIN
BD.	BOARD	GR.	GRADE	RFTR.	RAFTER
BITUM.	BITUMINOUS	GRT.	GROUT	RAD.	RADIUS
BLDG.	BUILDING	GYP. BD.	GYPSUM BOARD	RECT.	RECTANGULAR
BLK.	BLOCK	G.L.B.	GLUE-LAMINATED BEAM	RM.	ROOM
BLKG.	BLOCKING			REF.	REFERENCE
BM.	BEAM	HC.W.C.	HANDICAPPED WATER CLOSET	REFR.	REFRIGERATOR
BOT.	BOTTOM	HNGR.	HANGER HK. HOOK	RGTR.	REGISTER
BRNZ.	BRONZE	H.B.	HOSE BIBB	REINF.	REINFORCED
B.S.B.M.	BY STEEL BLDG. MANUF.	H.C.	HOLLOW CORE	REQ.	REQUIRED
B.U.R.	BUILT-UP-ROOFING	HDWD.	HARDWOOD	RESIL.	RESILIENT
		HDWE.	HARDWARE	RFG.	ROOFING
CAB.	CABINET	H.P.	HEAT PUMP	R.O. R/O	ROUGH OPENING
C.B.	CATCH BASIN	H.M.	HOLLOW METAL	RWD.	REDWOOD
C.D.F.	CONTROL DENSITY FILL	HORIZ.	HORIZONTAL	R.W.L.	RAIN WATER LEADER
CEM.	CEMENT CER. CERAMIC	H.R.	HOUR		
C.I.	CAST IRON	HGT.	HEIGHT	S.	SOUTH
CLG.	CEILING			S.C.	SOLID CORE
CLKG.	CAULKING	I.D.	INSIDE DIAMETER	S.C.D.	SEAT COVER DISPENSER
CLO.	CLOSET	INSUL.	INSULATION	S.D.	SOAP DISPENSER
CLR.	CLEAR	INT.	INTERIOR	SHT.	SHEET METAL
C.M.U.	CONCRETE MASONRY UNIT	INV.	INVERT ELEVATION	SCHED.	SCHEDULE
COMP.	COMPOSITION			SCRN.	SCREEN
COL.	COLUMN	JAN.	JANITOR	SECT.	SECTION
CONC.	CONCRETE	JT.	JOINT	SEIS.	SEISMIC
C.J.	CONTROL JOINT	JST.	JOIST	SH.	SHELF
CORR.	CORRIDOR			SHWR.	SHOWER
CPT.	CARPET (ED)	KIT.	KITCHEN	SHT.	SHEET
C.P.	CONCRETE PIPE	K.O.	KNOCK-OUT	SHTG.	SHEATHING
CTSK.	COUNTERSUNK			SIM.	SIMILAR
CNTR.	COUNTER	LAB.	LABORATORY	SPCG.	SPACING
CTR.	CENTER	L.S.	LAG SCREW	SPEC.	SPECIFICATION
CU.	CUBIC	LAT.	LATERAL	SQ.	SQUARE
		LAM.	LAMINATE	STGR.	STAGGER(ED)
DBL.	DOUBLE	LAV.	LAVATORY	SST.	STAINLESS STEEL
DEPT.	DEPARTMENT	LKR.	LOCKER	STIFF.	STIFFENER
D.F.	DRINKING FOUNTAIN	LT.	LIGHT	STRUCT.	STRUCTURAL
DET.	DETAIL	LT. WT.	LIGHT WEIGHT	S.SK.	SERVICE SINK
DIAG.	DIAGONAL			STA.	STATION
DIA.	DIAMETER	MATL.	MATERIAL	STD.	STANDARD
DIM.	DIMENSION	MAX.	MAXIMUM	STL.	STEEL
DISP.	DISPENSER	M.B.	MACHINE BOLT	STOR.	STORAGE
DN.	DOWN	MAS.	MASONRY	STRL.	STRUCTURAL
D.O.	DITTO	M.C.	MEDICINE CABINET	SUSP.	SUSPENDED
DR.	DOOR	MECH.	MECHANICAL	SYM.	SYMMETRICAL
DWR.	DRAWER	MEMB.	MEMBRANE		
D.S.	D/S DOWNSPOUT	MTL.	METAL	T.	TREAD
D.S.P.	DRY STANDPIPE	MFR.	MANUFACTURER	T.B.	TOWEL BAR
DWG.	DRAWING	MLDG (S)	MOULDING (S)	T.C.	TOP-OF-CURB
		M.H.	MANHOLE	T.&G	TONGUE AND GROOVE
E.	EAST	MIN.	MINIMUM	T.P.	TOP-OF-PAVEMENT
EA.	EACH	MIR.	MIRROR	T.P.D.	TOILET PAPER DISPENSER
E.J.	EXPANSION JOINT	MISC.	MISCELLANEOUS	TELE.	TELEPHONE
EL.	ELEVATION	M.O.	MASONRY OPENING	TERR.	TERRAZZO
ELECT.	ELECTRICAL	M.R.	MOISTURE RESISTANT	THK.	THICK
ELEV.	ELEVATOR	MTD.	MOUNTED	T.O.	TOP OF
EMER.	EMERGENCY	MUL.	MULLION	TRTD.	TREATED
ENCL.	ENCLOSURE			T.W.	TOP-OF-WALL
E.O.S.	EDGE OF SLAB	(N.)	NEW	TYP.	TYPICAL
E.P.	ELECTRICAL PANELBOARD	N.	NORTH		
EQ.	EQUAL	NAT.	NATURAL	UTIL.	UTILITY
EQPT.	EQUIPMENT	NO. •	NUMBER	UNF.	UNFINISHED
EQV.	EQUIVALENT	NOM.	NOMINAL	U.O.N.	UNLESS OTHERWISE NOTED
E.W.C.	ELECTRICAL WATER COOLER	N.T.S.	NOT-TO-SCALE	U.O.S.	UNLESS OTHERWISE SHOWN
(E.)	EXISTING	N.P.T.	NATIONAL PIPE THREAD	UR.	URINAL
EXP.	EXPANSION				
EXT.	EXTERIOR	O.A.	OVERALL	VB	VAPOR BARRIER
		OBS.	OBSCURE	VERT.	VERTICAL
F.A.	FIRE ALARM	O.C. O/C	ON CENTER	VEST.	VESTIBULE
F.A.U.	FORCED AIR UNIT	O.D.	OUTSIDE DIAMETER	VEN.	VENEER
F.B.	FLAT BAR	O.F.C.I.	OWNER FURNISHED,CONTRACTOR INSTALLED	V.T.O.	VENT-TO-OUTSIDE
F.D.	FLOOR DRAIN	O.F.O.I.	OWNER FURNISHED,OWNER INSTALLED	V.T.R.	VENT-TO-ROOF
F.L.	FLOW LINE	OFF.	OFFICE	VOL.	VOLUME
F.G.	FINISH GRADE	OPNG.	OPENING		
FND.	FOUNDATION	OPP.	OPPOSITE	W.	WEST
F.E.	FIRE EXTINGUISHER	OPT.	OPTIONAL	W/	WITH
F.H.C.	FIRE HOSE CABINET FIN. FINISH	O.S.A.	OUTSIDE AIR	W.C.	WATER CLOSET
FLR.	FLOOR	O.S.B.	ORIENTED STRAND BOARD	WD.	WOOD
FLSH.	FLASH OR FLASHING			WDW	WINDOW
FLUOR.	FLUORESCENT	PNL(S).	PANEL(S)	W/O	WITHOUT
F.O.A.	FACE-OF-BLOCK	PART. BD.	PARTICLE BOARD	WP.	WATERPROOF
F.O.C.	FACE-OF-CONCRETE	PEN.	PENETRATION	WSCT.	WAINSCOT
F.O.F.	FACE-OF-FINISH			WT.	WEIGHT
F.O.S.	FACE-OF-STUDS			W.W.F.	WELDED WIRE FABRIC
				WM.	WIRE MESH

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FOREST BUILDING REMODEL

DISTRICT 1 PLEASANT HILL FORESTRY BUILDING

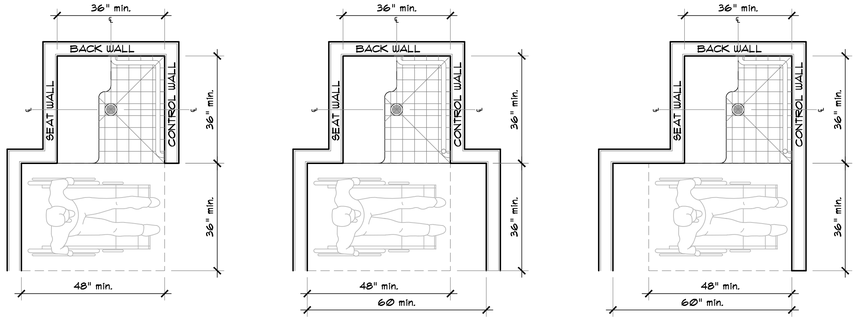
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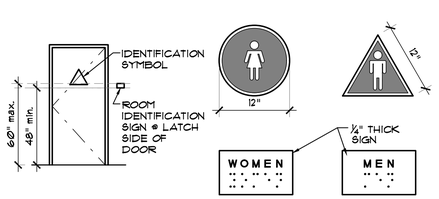
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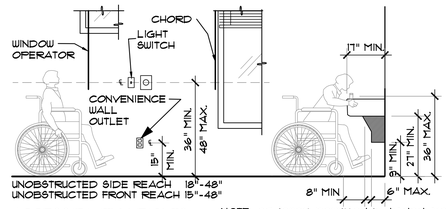
TRANSFER SHOWERS

1. 36" IN WIDTH AND DEPTH DIMENSIONS ARE AN ABSOLUTE REQUIREMENT AND ARE NOT A "MINIMUM" OR "MAXIMUM" DIMENSION
2. 36"x48" CLEAR FLOOR SPACE IS REQUIRED TO ALLOW A PERSON IN A WHEEL CHAIR TO WORK THE CONTROLS AND ADJUST THE WATER FLOW AND TEMPERATURE WHILE OUT-SIDE OF THE SHOWER
3. A TRANSFER SHOWER HAS THE OPTION OF A FIXED OR FOLDING SEAT. MOST TRANSFER SHOWERS HAVE FOLDING SEATS SO THAT STANDING PERSONS CAN HAVE USE OF THE SHOWER



INTERIOR SIGNAGE

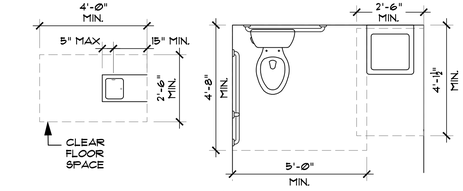
1. WHERE PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS AND SPACES, SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR AND BE CENTERED 60" ABOVE THE FINISHED FLOOR. WHERE THERE IS NO WALL SPACE TO THE LATCH SIDE OF THE DOOR, INCLUDING AT DOUBLE-LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL. MOUNTING LOCATION FOR SUCH SIGNAGE SHALL BE SO THAT A PERSON MAY APPROACH WITHIN 3" OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR.
2. THE CHARACTER AND BACKGROUND OF INTERIOR SIGNS SHALL BE EGGSHELL, MATTE, OR OTHER NON-GLARE FINISH. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND. EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND ARE ACCEPTABLE.
3. LETTERS & NUMBERS ON SIGNS SHALL HAVE A WIDTH-TO-HEIGHT RATIO BETWEEN 3:5 AND 1:1 AND A STROKE-WIDTH-TO-HEIGHT RATIO BETWEEN 1:5 AND 1:10. CHARACTERS AND NUMBERS ON SIGNS SHALL BE SIZED ACCORDING TO THE VIEWING DISTANCE FROM WHICH THEY ARE TO BE READ. THE MINIMUM CHARACTER HEIGHT FOR SIGNS SUSPENDED OR PROJECTED OVERHEAD IS 3" FOR UPPERCASE LETTERS. LOWERCASE LETTERS ARE PERMITTED.
4. LETTERS AND NUMERALS SHALL BE RAISED NOT LESS THAN ⅛" & NOT BE UPPERCASE, SIMPLE TYPEFACES AND BE ACCOMPANIED WITH GRADE 2 BRAILLE. RAISED CHARACTERS SHALL BE NOT LESS THAN ⅜" OR MORE THAN 2" HIGH. ANY PICTOGRAMS SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE BORDER DIMENSION OF THE PICTOGRAM SHALL BE AT LEAST 6" HIGH.



ACCESSIBILITY HEIGHTS:

NOTE: equipment permitted in shaded area

1. MANUALLY OPERATED SWITCHES AND CONTROLS FOR LIGHTS, POWER HEAT, VENTILATION, WINDOWS, DRAPERIES, DOORS AND SIMILAR CONTROLS OF FREQUENT AND ESSENTIAL USE ARE TO BE CENTERED BETWEEN 36" AND 48" FROM FLOOR.
2. ELECTRICAL CONVENIENCE WALL OUTLETS ARE TO BE A MINIMUM 15" FROM THE FLOOR. ELECTRICAL CONVENIENCE FLOOR OUTLETS AND BASEBOARD ELECTRICAL OUTLETS USED IN MOVABLE PARTITIONS OR WINDOW WALLS ARE NOT SUBJECT TO THE MINIMUM HEIGHT REQUIREMENTS.
3. DRINKING FOUNTAINS LOCATED WITHIN ALCOVES OR POSITIONED SO AS NOT TO BE IN CORRIDOR OR WALK, SHALL COMPLY WITH ABOVE.
4. THE BUBBLER CAN BE ACTIVATED BY HAND OPERATED LEVER WITHIN 6" OF THE FRONT, PUSH BAR ALONG FRONT OR BY ANOTHER APPROVED CONTROL EASILY OPERATED BY A HANDICAPPED PERSON.
5. WATER STREAM IS TO BE PARALLEL TO THE FRONT SIDE OF THE FOUNTAIN.



ACCESSIBILITY CLEARANCES:

1. FLOOR DRAINS SHALL NOT BE LOCATED WITHIN THE CLEAR FLOOR SPACE AT A LAVATORY, WATER CLOSET, URINAL, OR BATHTUB OR SHOWER. FLOORS SHALL NOT SLOPE IN EXCESS OF 1 UNIT VERTICAL IN 50 UNITS HORIZONTAL (2% SLOPE).
2. WHEN DOOR IS LOCATED IN CORRIDOR SIDEWALL AND SWINGS INTO THE CORRIDOR, MINIMUM WIDTH OF CORRIDOR SHALL BE 60" UNLESS OTHER STATE OR LOCAL BUILDING CODES ALLOW LESSER CORRIDOR WIDTH.
3. AN UNOBSTRUCTED FLOOR SPACE SHALL BE PROVIDED WITHIN BATHROOMS, TOILET ROOMS, BATHING FACILITIES AND SHOWER ROOMS OF SUFFICIENT SIZE TO INSCRIBE A CIRCLE WITH A DIAMETER NOT LESS THAN 60" OR A "T"-TURN DOORS IN ANY POSITION MAY ENCROACH INTO THIS SPACE BY NOT MORE THAN 12", BUT SHALL NOT SWING INTO THE CLEAR FLOOR SPACE OF ANY FIXTURE. THE CLEAR FLOOR SPACES AT FIXTURES, THE ACCESSIBLE ROUTE AND THE UNOBSTRUCTED FLOOR SPACE MAY OVERLAP.
4. FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC AND BE MOUNTED FOR USE FROM THE WIDE SIDE OF THE WATER CLOSET AREA AND NOT MORE THAN 44" ABOVE THE FLOOR. CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH THE WRIST OR ARM AND NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 POUNDS-FORCE.

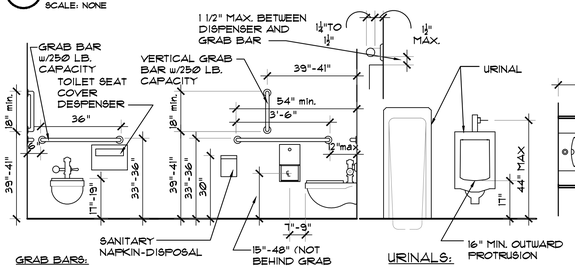
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1 TRANSFER SHOWERS

SCALE: NONE



GRAB BARS:

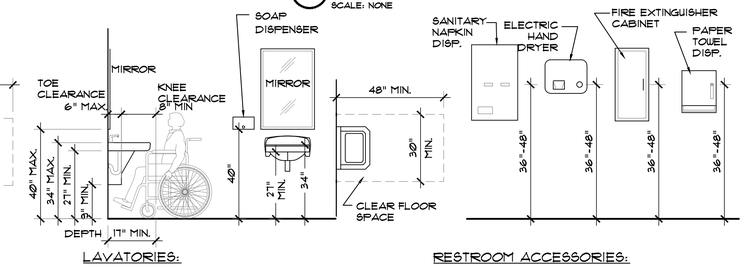
1. LOCATE GRAB BARS ON EACH SIDE OR ONE SIDE AND AT THE BACK OF TOILET, 33" ABOVE AND PARALLEL TO THE FLOOR, EXCEPT WITH A TANK-TYPE TOILET WHICH OBSTRUCTS PLACEMENT, THE GRAB BAR MAY BE AS HIGH AS 36". GRAB BARS AT SIDE TO BE 42" LONG AND WITH FRONT END 24" IN FRONT OF TOILET. BARS IN BACK TO BE 36" LONG. DIAMETER OR WIDTH OF GRIPPING SURFACE IS REQUIRED TO BE 1¼" TO 1½", OR SHAPE IS TO PROVIDE AN EQUIVALENT GRIPPING SURFACE.
2. IF GRAB BARS ARE MOUNTED ADJACENT TO WALL, THE SPACE BETWEEN WALL AND BAR IS TO BE 1½".
3. GRAB BARS SHALL NOT ROTATE.
4. GRAB BARS AND ANY SURFACE ADJACENT TO THEM CANNOT HAVE ANY SHARP OR ABRASIVE ELEMENTS. EDGES ARE TO HAVE A MINIMUM RADIUS OF ⅛".
5. GRAB BARS AND MOUNTINGS SHALL WITHSTAND 250 LBS/SIDE 500 LBS. WEIGHT/MIDDLE.

URINALS:

1. PROVIDE STALL-TYPE OR WALL HUNG URINALS WITH AN ELONGATED RIM AT MAXIMUM HEIGHT 17". FLUSH CONTROLS TO BE HAND OPERATED AND MEET SAME REQUIREMENTS AS FLUSH CONTROLS OF TOILET AND TO BE NO MORE THAN 44" ABOVE FLOOR.
2. ALTHOUGH NOT EMPHASIZED IN REGULATIONS, THE ACCESSIBLE WALL HUNG URINAL SHOULD BE MAXIMUM ELONGATED RIM AVAILABLE.
3. WHERE URINALS ARE PROVIDED AT LEAST ONE SHALL HAVE A CLEAR SPACE IN FRONT OF URINAL 30"X48".

3 INTERIOR SIGNAGE

SCALE: NONE



LAVATORIES:

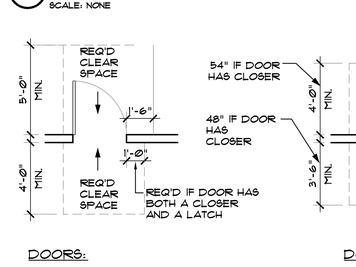
1. PROVIDE A CLEAR SPACE 30"X48" IN FRONT OF THE LAVATORY. THE CLEAR SPACE MAY EXTEND INTO KNEE AND TOE SPACE UNDER LAVATORY.
2. INSULATE OR COVER HOT WATER AND DRAIN PIPES UNDER LAVATORIES. NO SHARP OR ABRASIVE SURFACES ARE ALLOWED UNDER LAVATORIES.
3. FAUCET CONTROLS AND OPERATING MECHANISMS ARE REQUIRED TO BE OPERABLE WITH ONE HAND AND CANNOT REQUIRE GRASPING, PITCHING, OR TWISTING OF WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS IS NOT TO EXCEED 5 LBS. PER FT. LEVER OPERATED, PUSH TYPE AND ELECTRONICALLY CONTROLLED MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGN.
4. SELF CLOSING VALVES ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS.

RESTROOM ACCESSORIES:

1. THE HIGHEST OPERABLE PART OF ENVIRONMENTAL AND OTHER CONTROLS, DISPENSERS, ELECTRICAL AND COMMUNICATION SYSTEM RECEPTACLES ON WALLS AND OTHER OPERABLE EQUIPMENT SHALL BE A MAXIMUM HIGH FORWARD OF 48" AND SHALL NOT BE LESS THAN 36" ABOVE THE FLOOR.
2. MOUNT MIRRORS WITH BOTTOM EDGE NO MORE THAN 40" FROM FLOOR.

4 ACCESSIBILITY HEIGHTS

SCALE: NONE



DOORS:

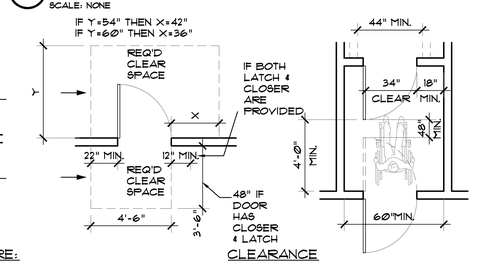
1. WHERE DOORWAYS HAVE TWO INDEPENDENTLY OPERATED DOOR LEAVES, THEN AT LEAST ONE LEAF SHALL COMPLY WITH REQUIRED DOOR SIZE, CONTROLS, ETC.
2. UNINTERRUPTED KICK AT BOTTOM OF DOOR SHALL BE 10".
3. THRESHOLDS AT DOORWAYS SHALL NOT EXCEED ½" IN HEIGHT AT EXTERIOR DOORS. RAISED THRESHOLDS AND FLOOR LEVEL CHANGES ACCESSIBLE DOORWAYS SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1 UNIT VERTICAL IN 2 UNITS HORIZONTAL (50% SLOPE).
4. EXIT DOORS SHALL BE OPERABLE FROM INSIDE WITHOUT USE OF KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.

DOOR HARDWARE:

1. IT SHALL BE OPERABLE FROM SINGLE EFFORT, NO GRASPING OR WRIST MOVEMENT (LEVERS, PUSH-PULLS OR PANIC DEVICES).
2. IT SHALL BE MOUNTED AT 36"-48" HIGH.
3. IT SHALL BE OPERABLE FROM INSIDE WITHOUT USE OF KEY OR SPECIAL KNOWLEDGE OR EFFORT.

5 ACCESSIBILITY CLEARANCES

SCALE: NONE



CLEARANCE

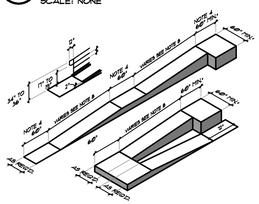
1. SPACE IS NECESSARY TO ALLOW BACKING AND TURNING SPACE FOR A WHEELCHAIR IN ORDER TO CLEAR "IN" SWINGING DOOR

ALLOWABLE CLOSURE PRESSURE:

1. INTERIOR DOOR = 5 POUNDS
2. EXTERIOR DOOR = 8.5 POUNDS
3. WHERE ENVIRONMENTAL CONDITIONS REQUIRE GREATER CLOSING PRESSURE, POWER-OPERATING DOORS SHALL BE USED WITHIN THE ACCESSIBLE ROUTE.

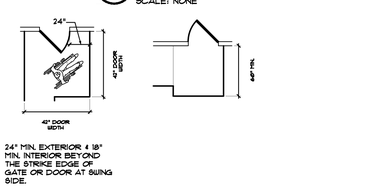
6 TOILET ACCESSORIES

SCALE: NONE



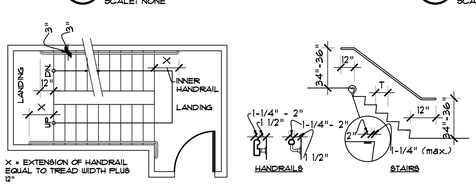
7 URINALS

SCALE: NONE



8 LAVATORIES

SCALE: NONE

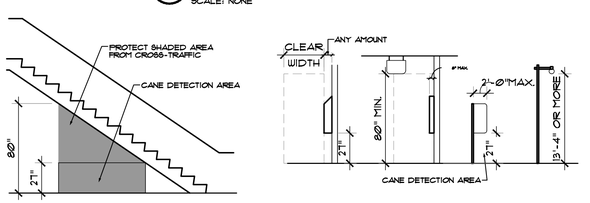


9 RESTROOM ACCESSORIES

SCALE: NONE

10 DOORS

SCALE: NONE



11 RAMPS

SCALE: NONE

RAMP NOTES:

1. MAXIMUM ALLOWABLE SLOPE OF RAMP IS 1:12.
2. MAXIMUM CROSS SLOPE OF 1:50.
3. LANDINGS ARE REQUIRED AT TOP AND BOTTOM OF EVERY RAMP.
4. INTERMEDIATE LANDINGS ARE REQUIRED AT INTERVALS NOT EXCEEDING 30" OF VERTICAL RISE AND AT EACH CHANGE OF DIRECTION.
5. LANDINGS SHALL BE MINIMUM 60" LONG, OR WIDTH OF RAMP IF GREATER IN DIRECTION OF TRAVEL.
6. PEDESTRIAN RAMPS SERVING PRIMARY ENTRANCES TO BUILDINGS WITH OCCUPANCY LOAD OF 300 OR MORE WILL REQUIRE 60" CLEAR WIDTH. RAMPS WITH OCCUPANCY LOAD OF LESS THAN 50 MAY BE 36" WIDE (HOTELS, APARTMENT HOUSES, CONVENTS, MONASTERIES, DWELLINGS).
7. HANDRAILS WILL BE REQUIRED ON EACH SIDE OF RAMP, CONTINUOUS FOR FULL LENGTH OF RAMP (SLOPES EXCEEDING 1:20).
8. RAMPS WITH SLOPES OF 1:20 OR GREATER WILL REQUIRE SLIP RESISTANT FINISH.

12 STAIRS

SCALE: NONE

STAIRS:

1. MARK UPPER APPROACH AND THE LOWER TREAD OF EACH FLIGHT OF EACH STAIR BY A STRIP 2" WIDE PLACED PARALLEL TO AND NOT MORE THAN 1" FROM NOSE OF STEP OF LANDING TO ALERT THE VISUALLY IMPAIRED. THE STRIP IS REQUIRED TO BE OF MATERIALS AT LEAST AS SLIP RESISTANT AS THE OTHER TREADS OF STAIRS AND TO BE OF A CLEARLY CONTRASTING COLOR. A PAINTED STRIP IS ACCEPTABLE (INTERIOR).
2. 80" CLEAR IS REQUIRED FOR HEADROOM IN WALKS, HALLS, CORRIDORS, PASSAGEWAYS, AISLES AND OTHER CIRCULATION SPACES.
3. WHERE STAIRWAYS OCCUR OUTSIDE A BUILDING, THE UPPER APPROACH AND ALL TREADS SHALL BE MARKED WITH A 2" STRIP.
4. BRAILLE IDENTIFICATION INDICATING FLOOR AND TRAVEL DIRECTION LOCATED AT THE TOP AND BOTTOM OF EACH STAIR RUN.
5. RISE AND RUN: THE RUN OF EVERY STEP IS REQUIRED TO BE NOT LESS THAN 11" AS MEASURED HORIZONTALLY BETWEEN VERTICAL PLANES OF THE FURTHERMOST PROJECTION OF ADJACENT TREADS.
6. TREADS: THE RISE OF EVERY STEP MUST BE BETWEEN 4"-7" WITH THE GREATEST DIFFERENCE BE LESS THAN ⅜". IN STAIRS THAT MAY BE USED BY A DISABLED PERSON, THE TREADS ARE REQUIRED TO BE SMOOTH, ROUNDED OR CHAMFERED WITHOUT ABRUPT EDGES AT THE LOWER FRONT EDGE OF NOSING.
7. NOSING: SHALL NOT PROJECT MORE THAN 1 1/2" PAST FACE OF RISER.
8. CLOSED RISERS: SHALL BE SUFFICIENTLY SOLID TO PREVENT PASSAGE OF OBJECTS LARGER THAN 1/4" MAXIMUM DIMENSION.

13 HAZARDS

SCALE: NONE

EXTERIOR HAZARDS:

WARNING CURB AT ABRUPT CHANGES IN LEVEL EXCEEDING 4" IN A VERTICAL DIMENSION, SUCH AS THE PLANTERS OR FOUNDATIONS LOCATED IN OR ADJACENT TO WALKS, SIDEWALKS OR OTHER PEDESTRIAN WAYS, SHALL BE IDENTIFIED BY CURBS AT LEAST 6" HIGH TO WARN THE BLIND OF A POTENTIAL DROP-OFF. NO CURB IS REQUIRED IF GUARDRAIL IS PROVIDED CENTERED 3" PLUS OR MINUS 1" ABOVE SURFACE OF WALK OR SIDEWALK.

OBSTRUCTIONS:

1. ANY OBSTRUCTION THAT OVERHANGS A ROUTE BY WHICH A PEDESTRIAN MAY PASS IS REQUIRED TO BE AT LEAST 80" ABOVE WALKING SURFACE AS MEASURED TO BOTTOM OF OBSTRUCTION.
2. OBJECTS WITH THEIR LEADING EDGES BETWEEN 27" AND 80" FROM WALK CANNOT PROTRUDE MORE THAN 4" INTO WALKS AND HALLS.
3. OBJECTS WITH THEIR LEADING EDGES WITHIN 27" OF WALK MAY PROTRUDE ANY DISTANCE, BUT MAY NOT REDUCE THE REQUIRED CLEAR SPACE.
4. FREE STANDING OBJECTS ON POSTS OR PYLONS MAY OVERHANG 12".
5. WALKS, HALLS, CORRIDORS, PASSAGEWAYS, AISLES OR OTHER CIRCULATION SPACE SHALL HAVE 80" MINIMUM CLEAR HEAD ROOM.

FLOOR:

1. BUILDING SHALL BE ONE COMMON FLOOR LEVEL THROUGHOUT, UNLESS VARYING LEVELS ARE PROVIDED WITH CONFORMING RAMPS OR LIFTS.
2. ALL FLOORS SHALL BE SLIP RESISTANT.

GRATING:

1. WALKS, SIDEWALKS AND PEDESTRIAN WAYS SHOULD NOT HAVE GRATINGS.
2. WHERE GRATINGS OCCUR IN THE PATH OF TRAVEL, THE GRID OPENINGS ARE REQUIRED TO BE NO GREATER THAN 1/2" IN THE DIRECTION OF TRAFFIC FLOW.

WALKS AND SIDEWALK:

1. PRIVATE WALKS OR SIDEWALKS ARE REQUIRED TO BE ACCESSIBLE IF THEY LEAD TO BUILDINGS AND FACILITIES REQUIRED TO BE ACCESSIBLE.
2. A MINIMUM OF 48" IS REQUIRED.
3. WALKS AND SIDEWALKS SHALL HAVE CONTINUOUS COMMON SURFACE, NOT INTERRUPTED BY STEPS OR BY ABRUPT CHANGES IN LEVEL EXCEEDING 1/2" AND SHALL BE A MINIMUM OF 48" WIDE.
4. SURFACES WITH SLOPE OF LESS THAN 6% GRADIENT SHALL BE SLIP RESISTANT.
5. SURFACE CROSS SLOPES SHALL NOT EXCEED 1/4"/FT.

TITLE: ADA (REFERENCE & GENERAL INFORMATION)

JOB#: 1520.05032023

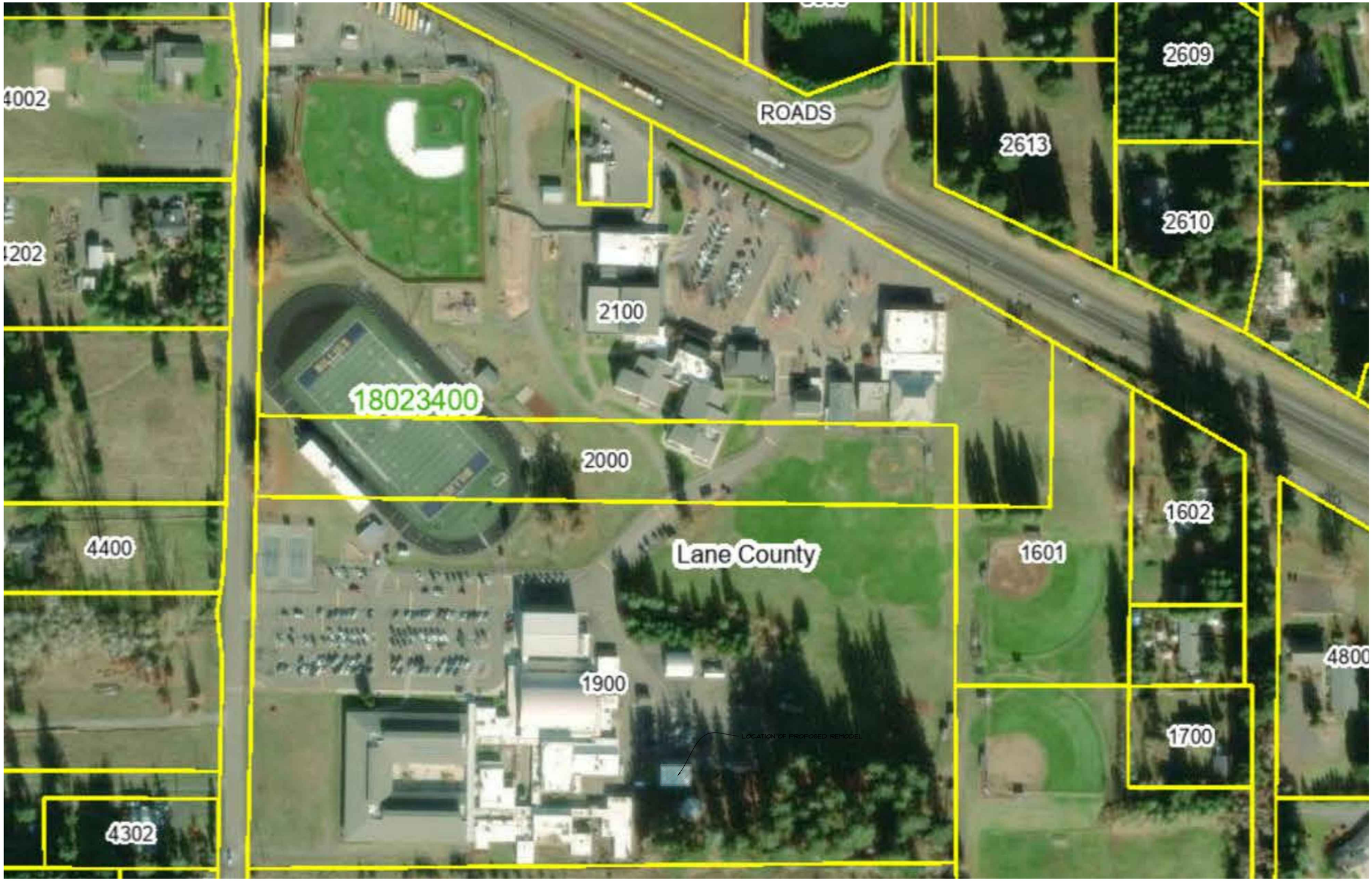
DRAWN BY: JSD

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ISSUE DATE: 2-2-2024

SCALE: VARIES

A0.2



ARCHITECTURAL SITE PLAN

SCALE: NONE

REGISTERED ARCHITECT
STATE OF OREGON
RODD E. HANSEN
EUGENE, OREGON
5173

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FORESTRY BUILDING REMODEL

DISTRICT 1 PLEASANT HILL
FORESTRY BUILDING

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PLEASANT HILL, OR.
97455

ARCHITECTURAL
TITLE: SITE PLAN

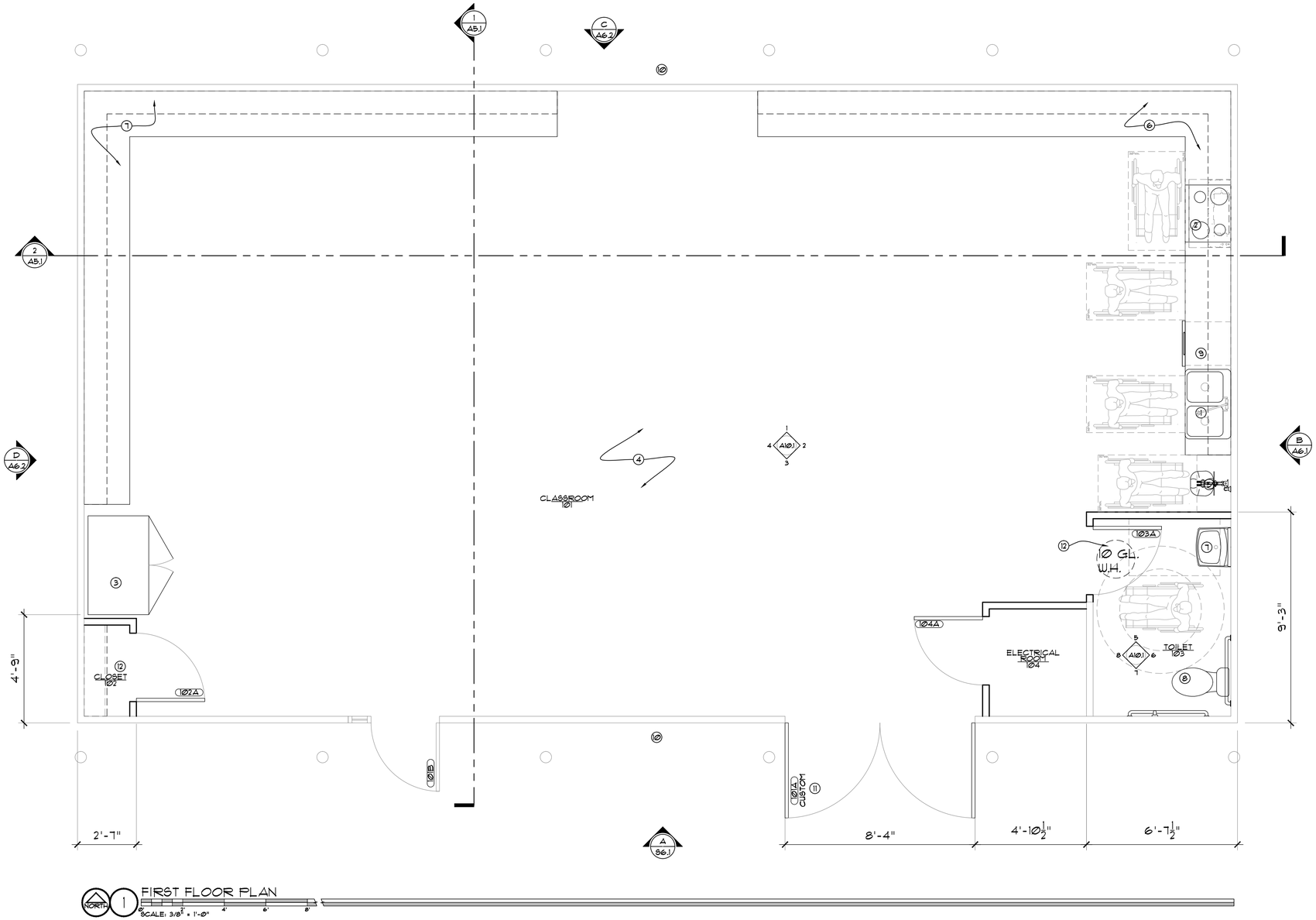
JOB#: 1520.05032023

DRAWN BY: JSD

ISSUE DATE: 2-2-2024

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

A1.1



FIRST FLOOR PLAN

NORTH

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

KEY NOTES: ⊙

1. DOUBLE SINK (ADA COMPLIANT)
2. RANGE (ADA COMPLIANT) & HOOD
3. LARGE COOLER
4. REFER TO A14.1 SHEET FOR CLASSROOM FURNITURE LAYOUT
5. WALL MOUNTED EMERGENCY EYE WASH (ADA COMP.)
6. UPPER AND LOWER COUNTERS w/ CUSTOM PULLOUT WORK STATIONS (ADA COMPLIANT) REFER TO A14.1 SHEET
7. SINK (ADA COMPLIANT)
8. TOILET (ADA COMPLIANT)
9. DISHWASHER
10. REFER TO A6.1-2 FOR UPPER WINDOW DEMOLITION, AND REPLACEMENT.
11. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS
12. 10 GALLON WATER HEATER ABOVE CEILING
13. CEILING ACCESS PANEL REFER TO A10.1 FOR LOCATION

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FORESTRY BUILDING REMODEL

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BASEMENT
TITLE: FLOOR PLAN

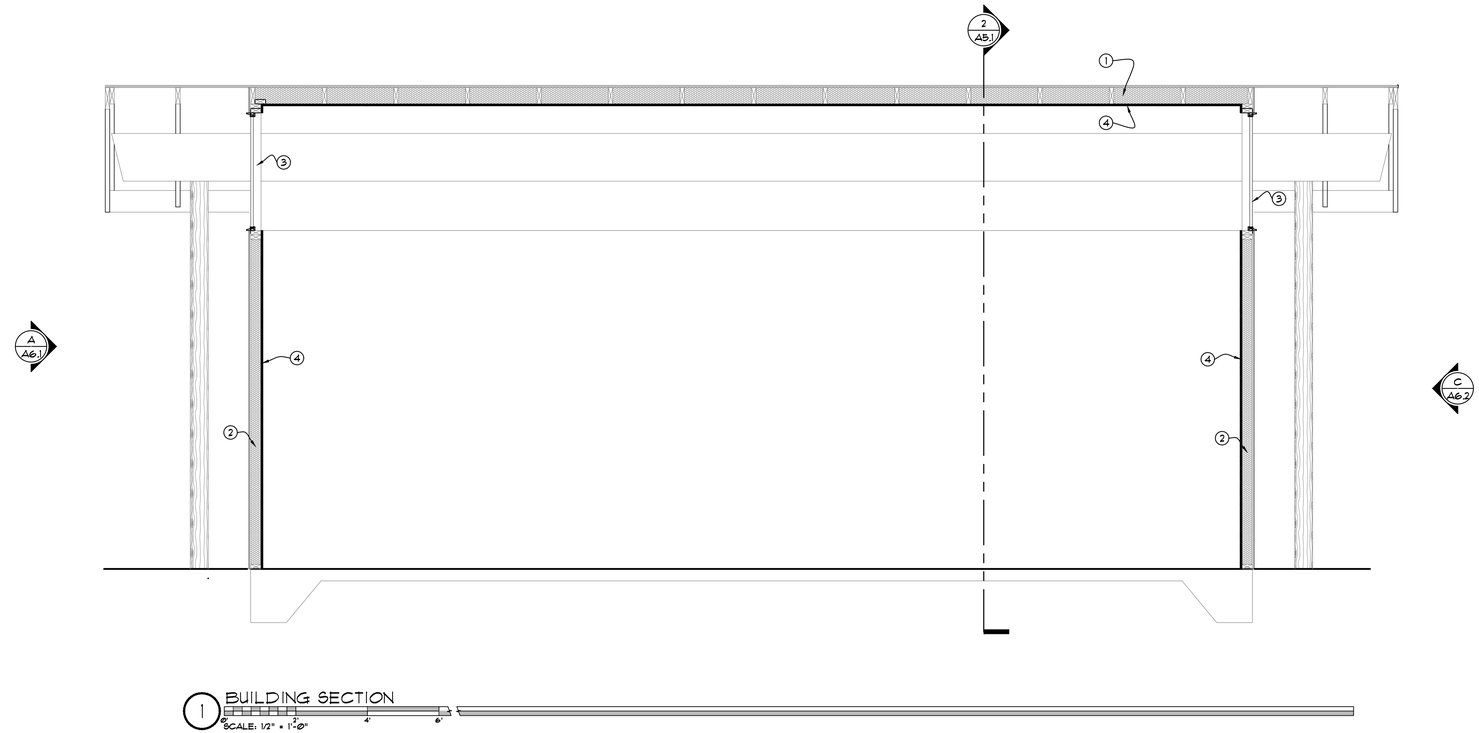
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ISSUE DATE: 2-2-2024

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

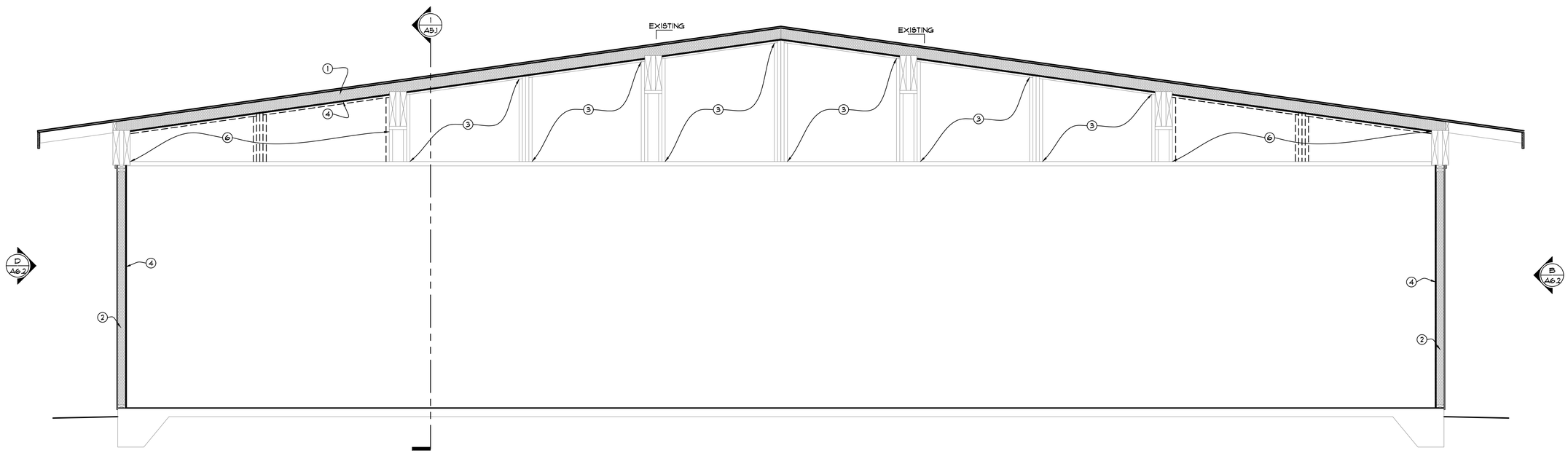
A3.1



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

KEY NOTES: ⊛

1. SPRAY FOAM INSULATION (R-49 RATING)
2. SPRAY FOAM INSULATION (R-21 RATING)
3. (N) GLAZING CONTRACTOR TO VERIFY SIZES) (REFER TO A6.1-2 FOR LOCATIONS)
4. 5/8" TYPE "X" GYP.BD.
5. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS (typ.)
6. GLAZING TO BE REMOVED AND IN-FILLED



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

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97455

TITLE: SECTIONS

JOB#: 1520.05032023

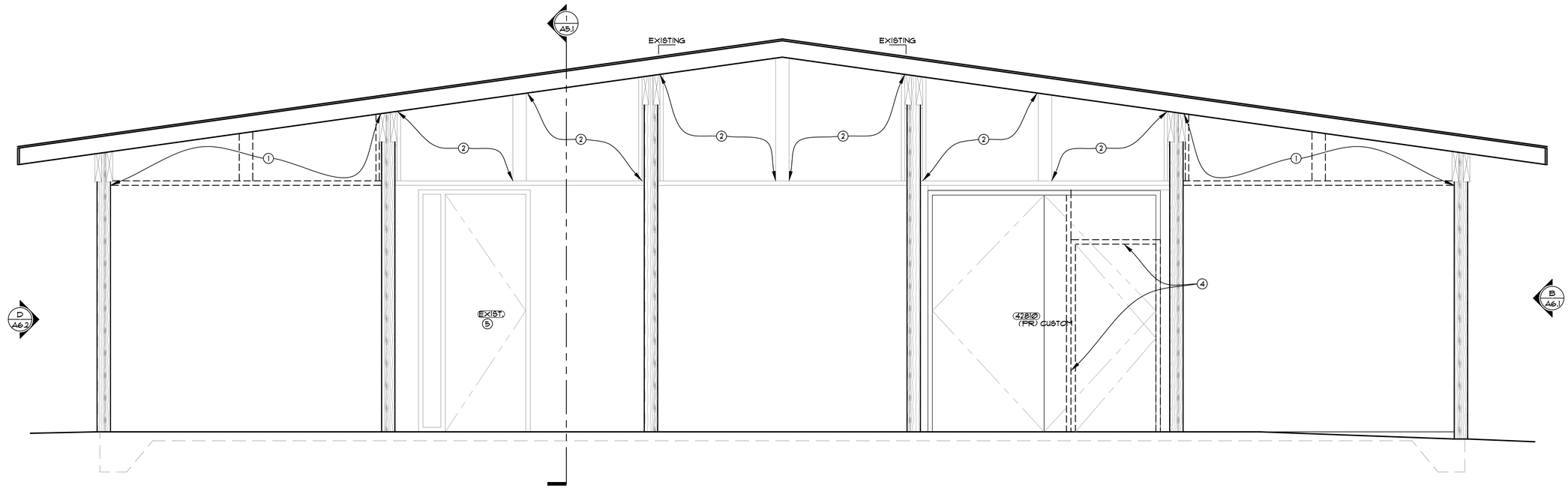
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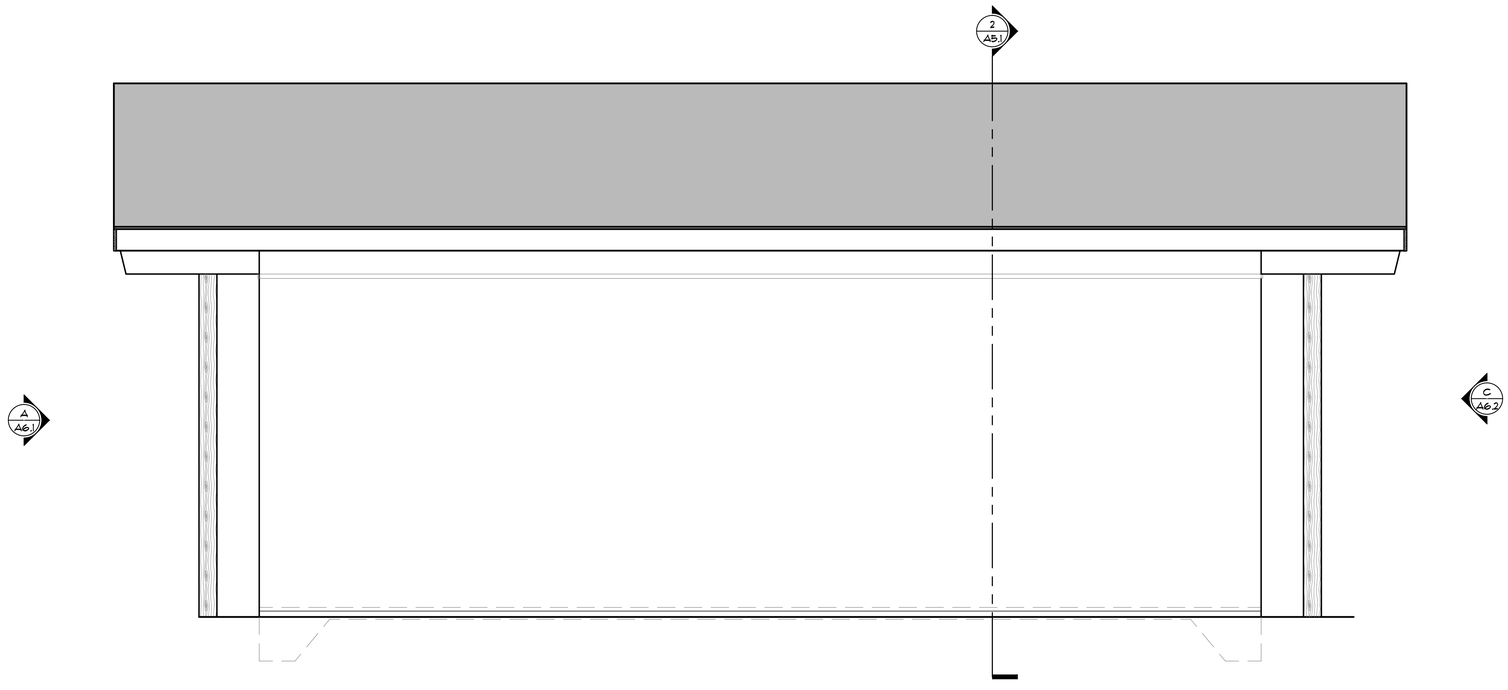
ISSUE DATE: 2-2-2024

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

A5.1



A ELEVATIONS
SCALE: 1/2" = 1'-0"



B ELEVATIONS
SCALE: 1/2" = 1'-0"

KEY NOTES:

1. EXISTING GLAZING TO BE REMOVED AND IN-FILLED/EXTERIOR FINISH TO MATCH EXISTING CONDITIONS, CONTRACTOR TO FIELD VERIFY EXISTING CONDITION AND MATCH)
2. (N) GLAZING (CONTRACTOR TO VERIFY SIZES)
3. CONTRACTOR TO REPAIR ALL DAMAGES DUE TO DEMOLITION, (MATCH EXISTING CONDITIONS) (typ.)
4. EXISTING DOOR TO BE REMOVED
5. EXISTING TO REMAIN

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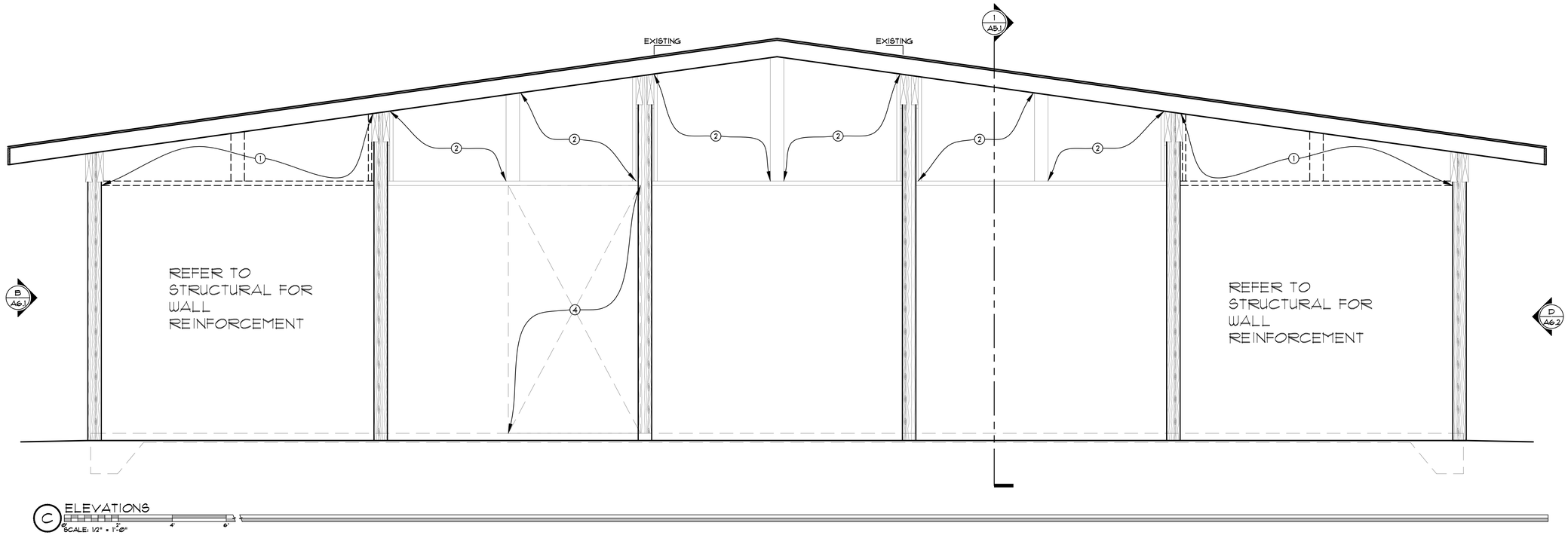
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EXTERIOR
TITLE: ELEVATIONS

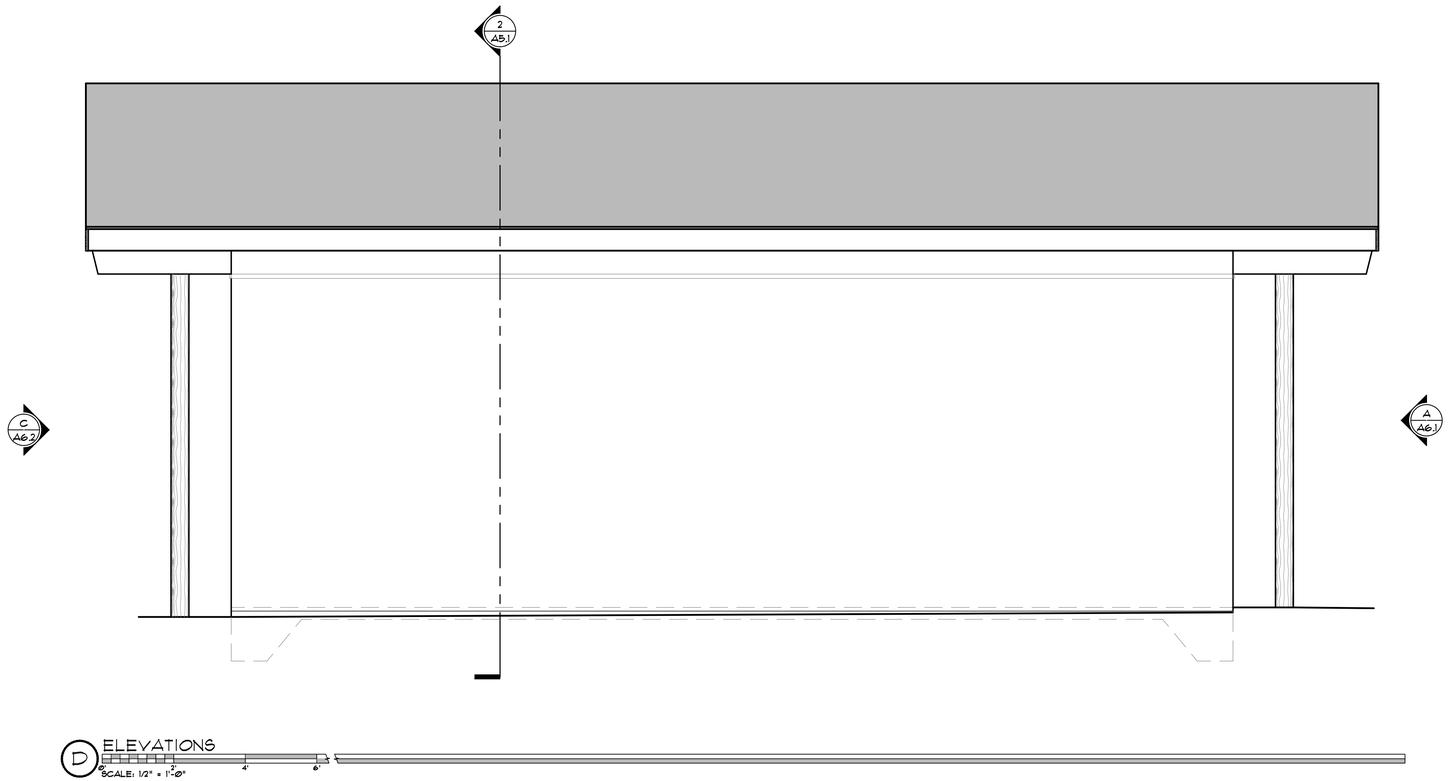
JOB#: 1520.05032023

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ISSUE DATE:	2-2-2024
SCALE:	1/2"=1'-0"

A6.1



C ELEVATIONS
SCALE: 1/2" = 1'-0"



D ELEVATIONS
SCALE: 1/2" = 1'-0"

KEY NOTES: ⊙

1. EXISTING GLAZING TO BE REMOVED AND IN-FILLED(EXTERIOR FINISH TO MATCH EXISTING CONDITIONS. CONTRACTOR TO FIELD VERIFY EXISTING CONDITION AND MATCH)
2. (N) GLAZING (CONTRACTOR TO VERIFY SIZES)
3. CONTRACTOR TO REPAIR ALL DAMAGES DUE TO DEMOLITION. (MATCH EXISTING CONDITIONS) (typ.)
4. EXISTING DOOR OPENING TO BE IN-FILLED

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FORESTRY BUILDING REMODEL

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EXTERIOR
TITLE: ELEVATIONS

JOB#: 1520.05032023

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ISSUE DATE: 2-2-2024

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

A6.2

DOOR SCHEDULE

TAG	TYP.	DOOR SIZE WD	DOOR SIZE HGT	DOOR SIZE THK	DOOR MATL	GLAZING	LOUVER WD	LOUVER HGT	FRAME MATL	DETAIL HEAD	DETAIL JAMB	DETAIL SILL	FIRE RATING LABEL	HARDWARE SET NO	HARDWARE KEYSIDE RM NO	NOTES	TAG
101A	2	4'-2"	8'-10"	1-3/4"	H.M.	--	--	--	MTL.	--	--	--	--	1	OUTSIDE	CUSTOM (PR)	101A
101B	1													3		EXISTING	101B
101C	3	3'-0"	2'-6"	3 1/2"		--	--	--	MTL.					3		CUSTOM (PR)	101C
102A	1	3'-0"	7'-0"	1-3/4"	H.M.	--	--	--	MTL.					3			102A
103A	1	3'-0"	7'-0"	1-3/4"	H.M.	--	--	--	MTL.					2			103A
104A	1	3'-0"	7'-0"	1-3/4"	H.M.	--	--	--	MTL.					3			104A

HARDWARE SCHEDULE

MANUFACTURES SPECIFIED:

PRODUCT SPECIFIED	MANUFACTURER SPECIFIED	SYMBOL SPECIFIED	APPROVED EQUAL
BUTTS	McKINNEY	MC	IVES
LOCKSETS	SCHLAGE	SCH	NONE
CYLINDERS	SCHLAGE	SCH	NONE
PANICS	VON DUPRIN	VD	NONE
CLOSERS	LCN	LCN	NONE
STOPS	IVES	I	NONE
SEALS	STEELCRAFT	STE	NONE

KEYING: PROVIDE CONSTRUCTION CYLINDERS ON EXTERIOR DOORS. KEY ALL NEW CYLINDERS INTO EXISTING GRAND?MASTER KEY SYSTEM. VERIFY KEYWAY WITH ARCHITECT AND OWNER

HARDWARE GROUPS:

GROUP 1

101A, 101B,

3	EA	BUTTS 5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	LOCKSET L9456P 06A	626	SCH
1	EA	KICKPLATE 8400 10 X2" LDW	630	IVE
1	EA	CLOSER 4111 S CUSH DA WMS	ALUM	LCN
1	EA	THRESHOLD VERIFY	ALUM	P
1	EA	DOOR BOTTOM 216AV	ALUM	P
1	EA	RAIN DRIP 346C	ALUM	P
1	EA	SEALS 944D 17FT	DKB	P

GROUP 2

103A

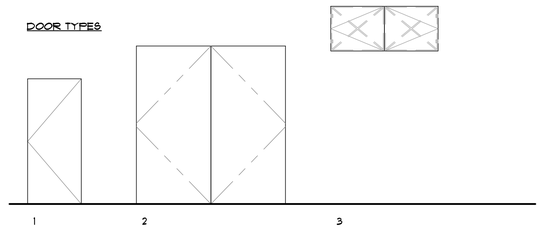
3	EA	BUTTS 5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	LOCKSET L9456P 06A L283-722	626	SCH
1	EA	WALLSTOP WS407CCV	630	IVE
1	EA	KICKPLATE 8400 10 X 2" LDW	630	IVE
1	EA	CLOSER 4111 S CUSH DA WMS	ALUM	LCN
1	EA	THRESHOLD VERIFY	ALUM	P
1	EA	DOOR BOTTOM 216AV	ALUM	P
1	EA	RAIN DRIP 346C		
1	EA	SEALS 944D 17FT	DKB	P
1	EA	PRIVACY INDICATOR		

GROUP 3

101C, 102A, 104A

3	EA	BUTTS 5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	LOCKSET L9456P 06A L283-722	626	SCH
1	EA	WALLSTOP WS407CCV	630	IVE
1	EA	KICKPLATE 8400 10 X 2" LDW	630	IVE
1	EA	CLOSER 4111 S CUSH DA WMS	ALUM	LCN
1	EA	THRESHOLD VERIFY	ALUM	P
1	EA	DOOR BOTTOM 216AV	ALUM	P
1	EA	RAIN DRIP 346C		
1	EA	SEALS 944D 17FT	DKB	P

DOOR TYPES



FINISH SCHEDULE

ROOM #	ROOM NAME	FLOOR MAT.	FLOOR FINISH	WALL MAT.	WALL BASE	WALL FINISH N	WALL FINISH W	WALL FINISH S	WALL FINISH E	CEILING MAT.	CEILING FINISH	CEILING HEIGHT	REMARKS	ROOM #
101	CLASSROOM	4	4	4, 5	8	5	5, 10	5	5		9	4		101
102	STORAGE	4	4	4, 5	8	5	5	5	5		9	4		102
103	TOILET	4	4	4, 5	8	5, 10	5, 10	5, 10	5		9	8'-0"		103
104	ELECTRICAL ROOM	4	4	4, 5	8	5	5	5	5		9	8'-0"		104

MATERIAL SCHEDULE

PAINT

1. LATEX ENAMEL COLOR TO SELECTED BY OWNER
2.

FLOOR SUBSTRATE

3. EXISTING

MISCELLANEOUS

4. EXISTING

WALL SUBSTRATE

5. 5/8" GYPSUM BOARD TYPE "X" (INTERIOR APPLICATION OVER WOOD FRAMING ONLY) NOTE: M.R. GYP.BD. TO BE USES BEHIND ALL WATER FIXTURES AND TO RUN 2'-0" PAST THE FIXTURE ON EITHER SIDE (typ.)
6. 5/8" "CDX" PLY.WD.
7. 2x6 WOOD STUD
8. 4" RUBBER BASE

CEILING FINISH

9. 5/8" GYPSUM BOARD TYPE "X" (INTERIOR CEILING AND PAINT AS SELECTED)

WALL FINISH

10. RESILIENT SHEET VINYL + 48" A.F.F.

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5173
STATE OF OREGON

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FORESTRY BUILDING REMODEL

DISTRICT 1 PLEASANT HILL
FORESTRY BUILDING

84455 N ENTERPRISE RD.
PLEASANT HILL, OR
97455

DOOR, WINDOW AND FINISH
TITLE: SCHEDULES

JOB#: 1520.05032023

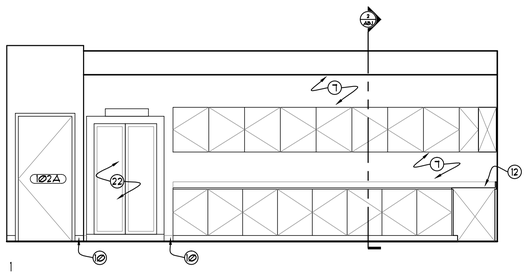
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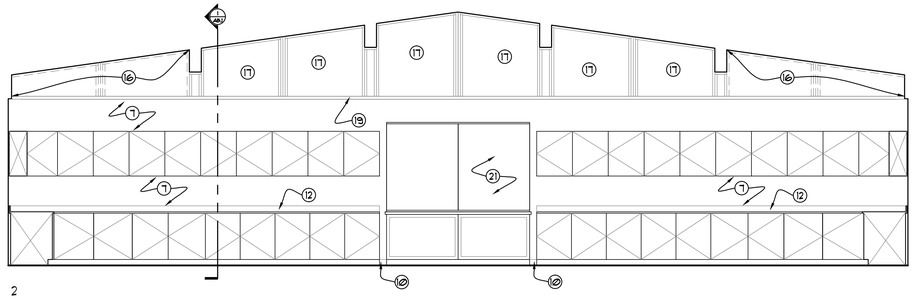
ISSUE DATE: 2-2-2024

SCALE: NONE

A9.1

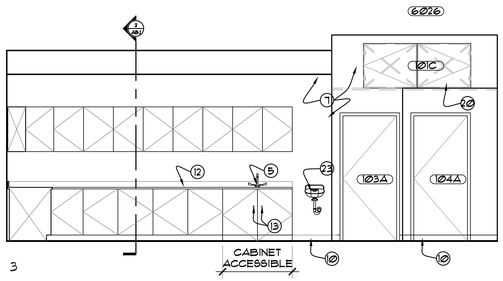


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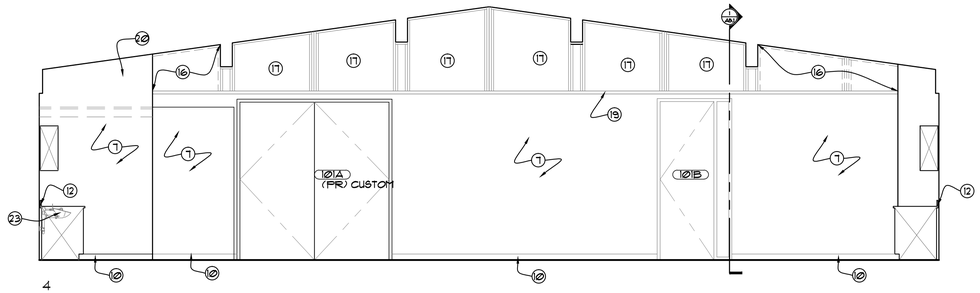


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INTERIOR ELEVATION

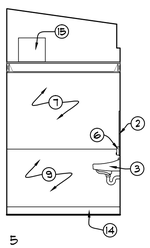


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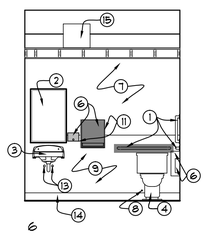


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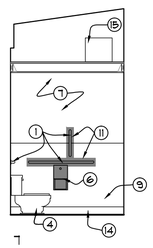
INTERIOR ELEVATION (cont.)



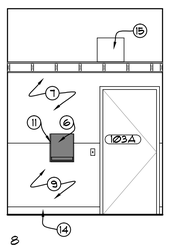
5



6



7



8

INTERIOR ELEVATION (101)

KEY NOTE ⊙

NOTE: SEE SHEET A02 FOR TYPICAL ADA INSTALLATION STANDARDS - (typ).

1. GRAB BAR
2. MIRROR 2'-0"x 3'-0"
3. SINK (ADA COMPLIANT) (REFER TO A0.)
4. TOILET
5. DOUBLE SINK (AS SELECTED)
6. HAND SOAP, TOILET PAPER, PAPER TOWEL DISPENSERS
7. PRIME AND PAINT w/ EPOXY PAINT COLOR TO BE SELECTED BY OWNER
8. WALL HYDRANT / PRIMER FOR FLOOR DRAIN
9. RESILIENT SHEET VINYL + 48" A.F.F.
10. 6" RUBBER BASE
11. SHADED AREA INDICATES BLOCKING (typ.)
12. 4" BACK SPLASH
13. HYDRANT H/C SUPPLY
14. 6" INTEGRAL VINYL COVE BASE
15. 10 GALLON WATER HEATER
16. EXISTING GLAZING TO BE REMOVED AND IN-FILLED (EXTERIOR FINISH TO MATCH EXISTING CONDITIONS. CONTRACTOR TO FIELD VERIFY EXISTING CONDITION)
17. (N) GLAZING (CONTRACTOR TO VERIFY SIZES)
18. CONTRACTOR TO REPAIR ALL DAMAGES DUE TO DEMOLITION. (MATCH EXISTING CONDITIONS) (typ.)
19. WD. TRIM
20. 6'-0"x30 ACCESS PANEL
21. DRY-ERASE BOARD / CABINET SUPPLIED BY OTHERS
22. REFRIGERATOR / COOLER SUPPLIED BY OTHERS
23. EYE WASH STATION (ADA COMPLIANT)

REGISTERED ARCHITECT
RODD E. HANSEN
EUGENE, OREGON
5173
STATE OF OREGON

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FORESTRY BUILDING REMODEL

DISTRICT 1 PLEASANT HILL FORESTRY BUILDING

84455 N ENTERPRISE RD.
PLEASANT HILL, OR
97455

TITLE: INTERIOR ELEVATIONS

JOB#: 1520.05032023

DRAWN BY: JSD

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3	--
4	--

ISSUE DATE: 2-2-2024

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

A10.1

GENERAL NOTES & DESIGN CRITERIA

1. GENERAL.
   A. These general structural notes and specifications supplement the project written technical specifications and the project structural drawings.
   B. The Contractor is responsible for all construction bracing, temporary shoring, and other site safety controls required during construction in accordance with all applicable Local, State and Federal regulations, to insure the stability and safety of all construction until it is completed and self-supporting.
   C. The Contractor is responsible for all water, both above and below ground, runoff and other environmental controls required during construction to insure the site is maintained in compliance with all applicable Local, State and Federal regulations.
   D. Details on these plans are intended to depict the general construction details and methods for this structure. Connection details and conditions not specifically shown that are similar in nature to those that are specified shall be assumed one and the same. If questions regarding the application of details are encountered, notify the Architect/Engineer for clarification or instruction.
   E. Prior to implementing any changes to these plans, the Architect/Engineer shall be notified in writing for their written approval. Changes implemented without the Architect/Engineers written approval shall relieve the Architect/Engineer of any claim or liability resulting from that portion of the structure changed or affected by the change.

2. CONTRACTOR RESPONSIBILITY FOR COORDINATION
   A. It is the Contractors Prime responsibility to coordinate the work shown on all of the Project Drawings, general, special and technical specifications.
   B. The Contractor is responsible to verify all existing construction material types dimensions, elevations and conditions.
   C. The Contractor shall verify and coordinate the dimensions among all drawings and in the field prior to proceeding with any work or fabrication, any discrepancy shall be immediately reported to the Architect/Engineer.
   D. It is the Contractor's responsibility to carefully study and coordinate the construction requirements shown on both the Architectural and the Structural Drawings. When conflicts or discrepancies are found between these plan sets and/or within these drawings, the Contractor shall report them immediately to the project Architect/Engineer for direction and/or clarification.
   E. Any construction work done by the Contractor before obtaining such clarification from the Project Architect/Engineer shall be at the Contractor's own risk and cost. Furthermore; any work required to correct, replace and/or restore the work as directed by the Architect/Engineer shall be at the Contractor's own risk and cost.

3. CODES.
   A. International Building Code, IBC Current Edition.
   B. Oregon Structural Specialty Code - OSSC Current Edition.
   C. Minimum Design Loads for Buildings and Other Structures, ASCE 7; current edition.
   D. American Concrete Institute, ACI 318, Building Code Requirements for Structural Concrete; current edition.
   E. American Concrete Institute, ACI 530, Building Code Requirements and Specifications for Masonry Structures; current edition.
   F. American Concrete Institute, ACI 301, Specifications for Structural Concrete.
   G. American Institute of Steel Construction, AISC 13th Edition, Steel Construction Manual.
   H. American Welding Society, AWS D1.1 current edition, Structural Welding Code.
   I. National Design Specifications, NDS For Wood Construction; current edition.
4. DESIGN CRITERIA.
   A. OCCUPANCY OR USE; IBC/OSSC Table 1607.1:
   B. LIVE LOADS:
      a. Minimum Roof Snow Load: 25 psf (snow)
      b. Ground Snow Load, Pg: 11 psf
      c. Unbalanced Snow per ASCE-7, Chapter 7
   C. DEAD LOADS
      a. ROOF DEAD LOAD: 20psf
   D. WIND:
      a. Basic Wind Speed: 120 mph (LRFD)
      b. RISK CATEGORY: III
      c. WIND SITE EXPOSURE: C
      d. INTERNAL PRESSURE COEFFICIENT: 0.18
      e. COMPONENT AND CLADDING DESIGN PRESSURES: WIND PRESSURE = 45psf
   E. SEISMIC:
      a. BASIC FORCE RESISTING SYSTEM: WOOD SHEAR WALLS
      b. DESIGN BASE SHEAR: 63.03 KIPS
      c. Earthquake Spectral Response Acceleration:
      d. Importance factor, Ie: 1.25
      e. Short Period, Ss: 73.0%
      f. 1-Second, S1: 33.0%
      g. SDS: .66
      h. SD1: .96
      i. SEISMIC RESPONSE COEFFICIENT: Cs = 0.127
      j. RESPONSE MODIFICATION FACTOR: R = 6.5
      k. ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORE
      l. Soil Class: D
      m. Seismic Use Group: III
      n. Seismic Design Category: D
   F. MECHANICAL:
      i. Refer to framing plans and mechanical equipment loads.

SPECIAL INSPECTIONS

1. Special inspections per IBC Chapter 17 are required for the following items listed below.
2. Special inspection will be provided by a certified or qualified inspector and associated testing will be performed by an approved/accredited agency. Inspectors shall be International Code Council (ICC) certified or otherwise approved by the building official.
3. The special inspector shall observe the indicated work for compliance with the approved contract documents and submit records of inspection. All discrepancies will be brought to the immediate attention of the contractor for correction.
4. Special inspection and associated testing reports will be submitted to the architect, engineer, contractor, building official, and owner within one week of inspection or within one week of test completion.
5. At the conclusion of construction, a final report documenting required special inspections and correction of previously noted discrepancies will be submitted to the parties identified in item "4" above.
6. Foundation and site preparation, including structural fills, shall be observed by the Geotechnical Engineer in accordance with the geotechnical investigation for this project.

SPECIAL INSPECTIONS CONTINUED

ITEM	FREQUENCY		SPECIAL NOTES
	CONTINUOUS	PERIODIC	
CONCRETE			
WOOD			
STEEL			
FABRICATION OF STRUCTURAL ELEMENTS		X	
MATERIAL VERIFICATION OF ANCHOR BOLTS		X	
SINGLE PASS FILLET WELDS > 5/16"	X		
WELDING IN THE SHOP OF AN APPROVED FABRICATOR SHALL NOT REQUIRE SPECIAL INSPECTION.			

*** ALL SPECIAL INSPECTIONS SHALL BE PERFORMED BY ICBO CERTIFIED INSPECTORS.

SUBMITTALS & DEFERRED SUBMITTALS

1. SUBMITTALS.
   A. Submit electronically product and material design information to the Architect/Engineer for review for the following items:
      a. NONE

2. DEFERRED SUBMITTALS.
   A. The following items to be designed by others are considered "Deferred Submittals". Upon review by the Engineer of all design documentation and shop drawings, Contractor must transmit to the local building official, for their review and approval, prior to fabrication and erection. Deferred submittals shall be accompanied by design drawings, shop drawings and structural calculations, stamped and signed by a Professional Engineer currently registered in the State of Oregon.
      a. NONE.

SHOP DRAWINGS

1. Submit required shop drawings to the Architect/Engineer for review prior to fabrication of the following items:
   A. NONE

FOUNDATIONS

1. All footings to be placed on firm undisturbed, inorganic material. Proof roll sub-grade prior to placing concrete where the material has been disturbed by the excavating equipment.
2. All piers and footings outside or at the perimeter of the structure, or in other unheated areas shall be set to a depth of at least 12-in. below finish grade, unless otherwise noted on the plans.
3. All foundations and retaining walls below finish grade shall receive an approved damp-proof coating. Foundation walls below maximum anticipated ground water levels shall receive an approved water-proof coating; extend water-proofing to a minimum of 1'-0" above the maximum anticipated ground water level.
4. Allowable bearing pressure for all footings Qa = 1,500 psf
5. Local areas of soft and/or unacceptable material encountered at bottom of footing elevations indicated on the plans must be over-excavated and brought up to design grade with compacted structural fill or lean concrete fill.
6. All structural fill and/or backfill shall be granular, free draining, material; Unified Soils Classification GW, GP, GM or SW; maximum aggregate size of 3-in. and no more than 7% passing a number 200 sieve. Material shall be placed in lifts no greater than 6-in. in depth and compacted to 95% of maximum density as determined per ASTM D1557.
7. Design for the mitigation of subsurface water flow and/or perched water tables shall be the responsibility of others.
8. The Engineer shall be notified in writing if any ground water, clay type soils, debris or unconsolidated materials are encountered during excavations for foundations.
9. GEOTECHNICAL REPORT - NOT AVAILABLE

LUMBER/MATERIALS/HARDWARE

1. LUMBER: Grading shall be to the Standard Grading Rules of the WWPA. Typical structural lumber shall be Number 2 Douglas-Fir/Larch or better. Members noted as wood beams, posts or columns shall be Number 1 Douglas-Fir/Larch or better. Studs for interior non-bearing walls may be stud grade lumber. Lumber to be left exposed, without other finish and lumber in contact with concrete shall be pressure treated.
2. TREATED LUMBER: Lumber, including wood sheathing, to be left exposed without other finish, located within 8" of finish grade, or in contact with concrete shall be pressure treated material. Contractor shall coordinate and verify that all steel items in contact with the treated material, including steel hangars, connectors and fasteners have a galvanized finish of sufficient thickness, or other type of protection, that is compatible with the specific treatment type selected.
3. EPOXY SET BOLTS & REBAR: Bolts and reinforcing steel bars noted on the plans as Epoxy or Construction Adhesive Set Bolts or Rebar shall be set in place utilizing the SIMPSON SET High Strength Epoxy system; size and embedment as noted on the drawings, installed per the manufacturers recommendations; or an approved equal.
4. BOLTS & LAG SCREWS FOR WOOD CONSTRUCTION: Conform to ANSI/ASME Standards B18.2.1-1981 and the National Design Specification for Wood Construction (NDS) 1991 Edition Part VIII for Bolts and Part IX for Screws.
5. WOOD SCREWS: Conform to ANSI/ASME Standards B18.6.1-1981 and the National Design Specification for Wood Construction (NDS) 1991 Edition Part XI.
6. NAILS & SPIKES: Conform to Federal Specification FF-N-105B and the National Design Specification (NDS) 1991 Edition Part XII.
7. NAILING: Where not otherwise specified on the plans, nailing shall conform to IBC Table 2304.9.1, Fastening Schedule. All nails shall be common wire nails or pneumatically driven nails with an equivalent cross-section and penetration, unless noted otherwise.
8. LUMBER HARDWARE: Wood construction connectors shall be as manufactured by Simpson Strong-Tie Company; current catalog, or an approved equal. Hardware exposed to weather or view, in unheated portions of the structure, or as indicated on the drawings or in the specifications shall be hot-dipped galvanized with galvanized fasteners.
9. ROOF SHEATHING: All roof sheathing shall be 5/8" nominal, Exterior APA rated Sheathing {32/16} installed with ply-clips.

WOOD SHEATHED DIAPHRAGM CONSTRUCTION REQUIREMENTS

1. WOOD SHEATHED ROOF DIAPHRAGMS:
   A. Unless otherwise noted on the drawings, orient roof sheathing with face-grain perpendicular to supporting members, with joints in adjacent rows staggered 1/2 panel length.
   B. Provide 2x4 flat blocking at unsupported panel edges in areas noted as "Blocked Roof Diaphragm".
   C. Nail roof sheathing to all supporting members and blocking as follows:
      a. 10d nails @ 6-in. o.c. at all diaphragm boundaries.
      b. 10d nails @ 6-in. o.c. at all panel edges.
      c. 10d nails @ 12-in. o.c. to intermediate framing members.

REGISTERED PROFESSIONAL ENGINEER
86391
OREGON
MAY 5, 2012
DEREK A HOWARD

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E-Mail: dhoward@cbse.us

PLEASANT HILL FORESTRY BUILDING

PLEASANT HILL, OR

TITLE:

JOB#: 24-001

DRAWN BY: DAH

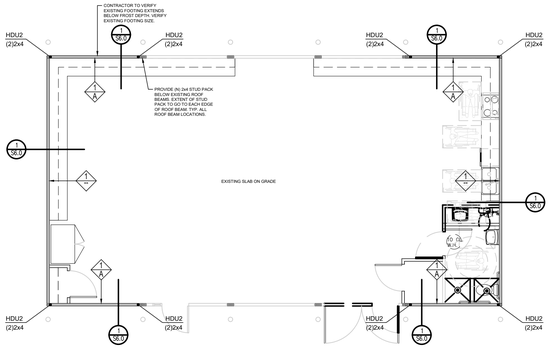
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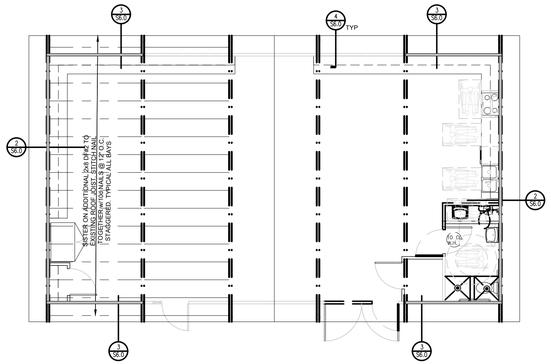
ISSUE DATE: 02FEB2024

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FULL SIZE SET

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STRUCTURAL NOTES



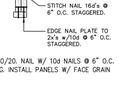


FOUNDATION/ROOF PLAN

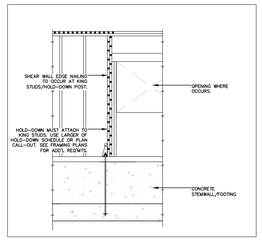
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GENERAL FRAMING PLAN NOTES

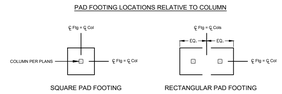
1. DETAILS ON THESE PLANS ARE INTENDED TO DEPICT THE GENERAL CONSTRUCTION METHODS FOR THIS STRUCTURE. CONNECTIONS, DETAILS AND CONDITIONS NOT SPECIFICALLY SHOWN THAT ARE SIMILAR TO THOSE THAT ARE SPECIFIED SHALL BE ASSUMED ONE AND THE SAME.IF QUESTIONS REGARDING THE APPLICATION OF DETAILS ARE ENCOUNTERED, NOTIFY THE ARCHITECT/ENGINEER FOR CLARIFICATION IN A TIMELY MANNER PRIOR TO BID OPENING.
2. SEE SHEETS S-2.0 (FOUNDATION PLAN) FOR SHEARWALL AND HOLD DOWN LOCATIONS/REQUIREMENTS
3. ALL EXTERIOR AND LOAD BEARING WALL STUDS ARE 2x6 DF#2 STUDS AT 16" O.C. EXCEPT AS NOTED ON PLANS. SEE ARCH. FOR ADDN'L INFO.
4. CONTRACTOR IS TO COORDINATE WEIGHTS & LOCATIONS OF MECH. UNITS, DUCTS,...ETC W/ TRUSS MANUFACTURER.
5. SEE SHEET S-5.1 FOR TYPICAL ROOF SHEATHING DIAPHRAGM DETAIL
6. TYPICAL HEADER SUPPORTS SHALL BE AS FOLLOWS:
   FOR ALL EXTERIOR OPENINGS < 4'-6":
   (1) 2x6 DF #2 TRIMMER STUD, TYPICAL U.N.O.
   (1) 2x6 DF #2 KING STUD, TYPICAL U.N.O.
   FOR ALL EXTERIOR OPENINGS 4'-6" ≤ L < 8'-0":
   (2) 2x6 DF #2 TRIMMER STUD, TYPICAL U.N.O.: NAIL STUDS w/16d NAILS @ 6" O.C.
   (2) 2x6 DF #2 KING STUD, TYPICAL U.N.O.: NAIL STUDS W/16D NAILS @ 6" O.C.
   FOR ALL EXTERIOR OPENINGS 8'-0" ≤ L < 10'-0":
   (3) 2x6 DF #2 TRIMMER STUD, TYPICAL U.N.O.: NAIL STUDS W/16D NAILS @ 6" O.C.
   (3) 2x6 DF #2 KING STUD, TYPICAL U.N.O.: NAIL STUDS W/16D NAILS @ 6" O.C.
   FOR ALL EXTERIOR OPENINGS 10'-0" ≤ L < 12'-0":
   (3) 2x6 DF #2 TRIMMER STUD, TYPICAL U.N.O.: NAIL STUDS W/16D NAILS @ 6" O.C.
   (4) 2x6 DF #2 KING STUD, TYPICAL U.N.O.: NAIL STUDS W/16D NAILS @ 6" O.C.
7. TYPICAL INTERIOR NON-BEARING HEADER SIZES SHALL BE AS FOLLOWS:
   FOR ALL INTERIOR OPENINGS < 6'-0"
   (2) 2x6 DF#2 STITCH NAILED TOGETHER NAIL STUDS W/16D NAILS @ 6" O.C.
   FOR ALL INTERIOR OPENINGS FOR 6'-0" ≤ L < 8'-0"
   (2) 2x8 DF#2 STITCH NAILED TOGETHER NAIL STUDS W/16D NAILS @ 6" O.C.
   FOR ALL INTERIOR OPENINGS WHERE 8'-0" ≤ 12'-0"
   (2) 2x12 DF#1 STITCH NAILED TOGETHER NAIL STUDS W/16D NAILS @ 6" O.C.



8. ROOF SHEATHING SHALL BE 19/32" SHEATHING (5/8 NOMINAL), APA INDEX 40/20. NAIL W/ 10d NAILS @ 6" O.C. ALONG SUPPORTED PANEL EDGES AND 12" O.C. ALONG INTERMEDIATE FRAMING. INSTALL PANELS W/ FACE GRAIN PERPENDICULAR TO JOIST FRAMING AND STAGGER PANEL END JOINTS.
9. FLOOR SHEATHING SHALL BE 2" APA RATED STURD-I-FLOOR (48 o.c.). NAIL W/ 10d x 3" NAILS @ 4" O.C. ALONG SUPPORTED PANEL EDGES AND 12" O.C. ALONG INTERMEDIATE FRAMING. INSTALL PANELS W/ FACE GRAIN PERPENDICULAR TO JOIST FRAMING AND STAGGER PANEL END JOINTS.
10. ALL HEADER GRADES SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:
    4x -> DF#2
    6x -> DF#1
    GL -> 24F-V4 - UNO
    GL -> 24F-V8 - BALANCED CONDITION
    1¾" VERSA-LAM -> 1.7 - 2400 DF
    3½" VERSA-LAM -> 1.7 - 2650 DF



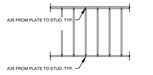
PAD FOOTING LOCATIONS RELATIVE TO COLUMN



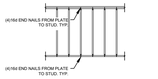
FOOTING CALLOUT



STUD TO PLATE CONNECTIONS 16ft WALLS



STUD TO PLATE CONNECTIONS 10ft WALLS



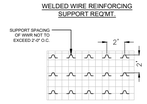
FASTENERS IN CONTACT w/PRESSURE TREATED LUMBER

ALL FASTENERS IN CONTACT w/PRESSURE TREATED LUMBER SHALL BE HOT-DIP GALVANIZED. FASTENERS INCLUDE BUT ARE NOT LIMITED TO:

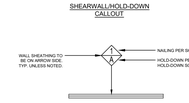
- NAILS
- SILL PLATE ANCHOR BOLTS & WASHERS
- HOLD-DOWN's (UNLESS PERMITTED TO BE HELD ABOVE PLATE)
- HOLD-DOWN ANCHOR RODS

*** NOTE: ELECTROPLATED/ELECTRO GALVANIZED AND MECHANICAL GALVANIZED COATINGS ARE NOT CONSIDERED HOT-DIP GALVANIZED.

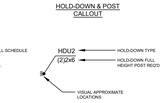
WELDED WIRE REINFORCING SUPPORT REQ'MT.



SHEARWALL/HOLD-DOWN CALLOUT



HOLD-DOWN & POST CALLOUT



Shear Wall Schedule

TYPE	SHEATING	APA RATING	NAIL SIZE	EDGE NAIL	FIELD NAIL	BLOCKING	SHEAR WALL TYPE	SIL PLATE ANCHORAGE	FLOOR TO FLOOR ANCHORAGE FOR MULTI-STORY CONDITION	TRUSS BLK'G TO DBL TOP PLATE
1	3/8" CDX PLYWOOD OR OSB ONE SIDE ONLY.	24/16	8d	6" o.c.	12" o.c.	BLOCKED	SEGMENTED	*SMP. MAS MUD SILL ANCHORS @ 32" O.C. OR 5/8" DIA.x10" A.B. @ 32" O.C.	16d NAILS @ 6" O.C. FROM SIL TO RIM. SMP. LTP4 @ 24" O.C. FROM BLK'G TO DBL TOP PL	SIMP. A35 @ 24" or SIMP. LTP4's @ 24" O.C.

NOTES:

1. EXTERIOR WALLS NOT INDICATED/SHADED AS SHEAR WALLS ARE TO BE SHEATHED, NAILED AND ANCHORED PER SHEAR WALL TYPE 1 ABOVE. TYPICAL.
2. SEE HOLD DOWN SCHEDULE FOR RELATED INFORMATION.
3. BLOCK ALL PANEL EDGES, TYP. UNLESS OTHERWISE NOTED.
4. DO NOT USE WALL SHEATHING LESS THAN 24" WIDE AT SHEARWALLS.
5. SIMP. TITEN HD's MAY BE SUBSTITUTED FOR CAST-IN-PLACE ANCHORS FOR RETROFIT CONDITIONS. MIN. 8" EMBED REQUIRED.

* SIMP. 5/8"ø x 8" TITEN H.D.'s MAY BE USED IN LIEU OF ANCHOR BOLTS.
** 3x SILL PLATE, 3x PANEL EDGE MEMBERS, 3x BLK'G REQUIRED

HOLD DOWN SCHEDULE

	Type	Required Post Size @		Anchor Rod Attachment	Post Stitch Nailing Requirements		
		2x4 Wall	2x6 Wall				
-	NO HOLD DOWN REQ'D.						
A	SIMPSON HDU2 W/(6) ¾"x2½" SDS SCREWS POST	(2) 2x4 MIN.	(2) 2x6 MIN.	⅝"ø F1554 ALL THREAD w/SIMP. SET EPOXY AND 12" EMBED.	10d x 3" NAILS @ 4" O.C. STAGGERED.		

NOTE:
1. SEE SHEAR WALL SCHEDULE FOR RELATED INFORMATION.
2. DOUBLE STUDS THAT HOLD DOWNS ATTACH TO MUST BE FULL HEIGHT WALL STUDS FROM SILL PLATE TO DBL. TOP PLATE.
3. WHERE HOLD DOWN ANCHOR EMBEDMENT IS DEEPER THAN FOOTING, THICKEN FOOTING AS REQ'D TO PROVIDE 3" CLR TO BTM OF FTG AND EXTEND FTG 12" MIN. BEYOND EA. END OF ANCHOR. TYP. WHERE OCCURS
4. SISTER ALL MULTI-PLY HOLD-DOWN POSTS TOGETHER w/(2) ROWS OF 16d NAILS @ 6" O.C..



REGISTERED PROFESSIONAL ENGINEER
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OREGON
MAY 5, 2012
DEREK A HOWARD

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PLEASANT HILL FORESTRY BUILDING

PLEASANT HILL, OR

TITLE:

JOB#: 24-001

DRAWN BY: DAH

1 xxx

ISSUE DATE: 02FEB2024

SCALE:

FULL SIZE SET

S2.0
BLDG #01
FDN PLAN

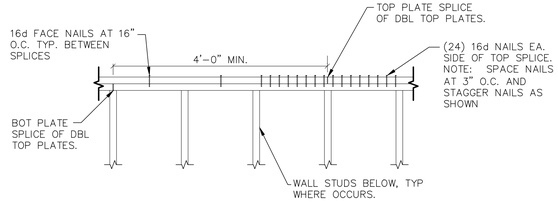
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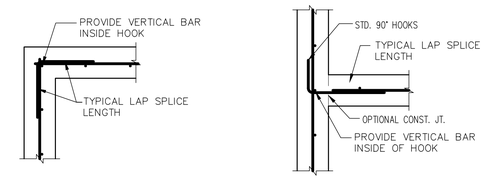
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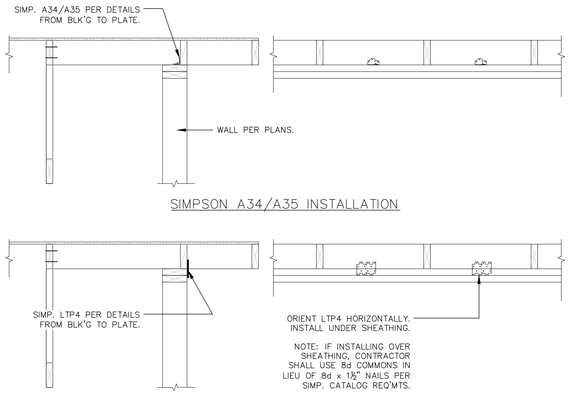
CBSE, LLC
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A Reinforcment Lap Lengths
SCALE: N.T.S.



NOTES:
1. CORNER & INTERSECTION BARS TO MATCH SIZE & SPACING OF HORIZ. BARS.
2. CENTER VERTICAL BARS IN WALL UNLESS NOTED OTHERWISE.
3. REFER TO OTHER DETAILS FOR REQUIRED BAR SIZE AND SPACING.

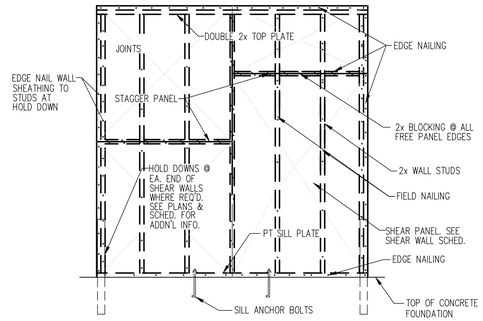
B Reinforcement Hook Requirements
SCALE: N.T.S.



C Reinforcement Stirrup/Tie Requirements
SCALE: N.T.S.

NOT USED

D TYPICAL DBL TOP PL SPLICE
SCALE: N.T.S.



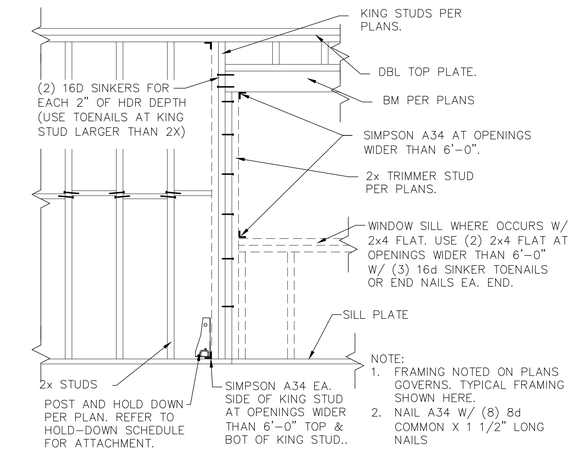
NOTES:
1) STAGGER JOINTS AS SHOWN
2) MIN. SIZE OF SHEET SHALL BE 24" X 24" UNLESS ALL EDGES ARE SUPPORTED WITH MIN 2x4 BLKG. OR FRAMING MEMBER.
3) NAILS SHALL BE DRIVEN TIGHT BUT SHALL NOT FRACTURE SURFACE OF SHEATHING.
4) TOLERANCE ON NAILING SHALL BE ; 3/4" WITH THE AVERAGE NAIL SPACING OVER ANY 4 FOOT LENGTH BEING AT LEAST THAT NOTED ON THE PLAN.

E Typical Concrete Wall Intersection Wall w/ One Layer Of Reinforcing
SCALE: N.T.S.

F
SCALE: N.T.S.

G Site Concrete to Structural Concrete
SCALE: N.T.S.

H TYPICAL WOOD SHEATHING LAYOUT
SCALE: N.T.S.



L TYPICAL WINDOW OPENING.
SCALE: N.T.S.

NOT USED

NOT USED

NOT USED

I TYPICAL ROOF SHEATHING
SCALE: N.T.S.

J TYPICAL ROOF OVERFRAMING
SCALE: N.T.S.

K Perforated Shear Wall
SCALE: N.T.S.

PLEASANT HILL FORESTRY BUILDING

PLEASANT HILL, OR

TITLE:

JOB#: 24-001

DRAWN BY: DAH

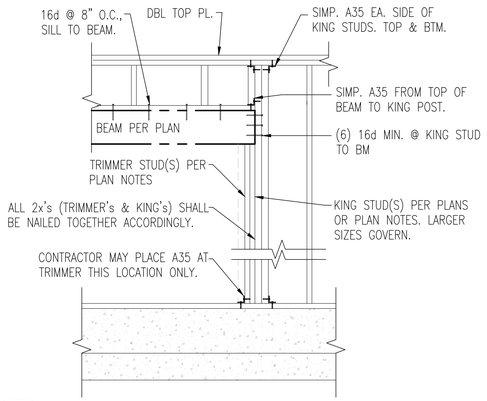
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ISSUE DATE: 02FEB2024

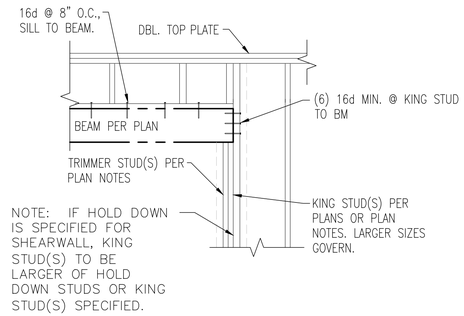
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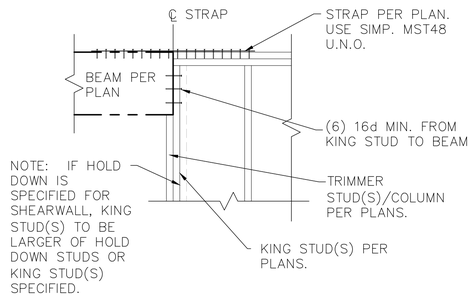
S5.0
GENERAL STRUCTURAL DETAILS



M OPENINGS ≥ 8'-0"
SCALE: N.T.S.



N DROPPED HEADER
SCALE: N.T.S.



O BEAM SUPPORT FLUSH W/ TOP PLATE
SCALE: N.T.S.

NOT USED

P TYPICAL BEAM POCKET
SCALE: N.T.S.

NOT USED

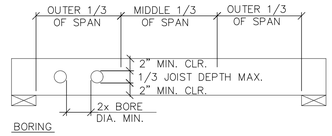
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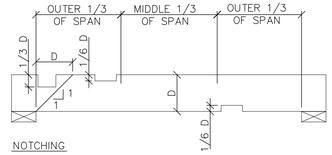
NOT USED

Q TYPICAL BEAM POCKET w/DBL TP PL BREAK
SCALE: N.T.S.

R Blocking @ Posts Between Floors
SCALE: N.T.S.

SCHEDULE IS APPLICABLE TO 2x SOLID SAWN FRAMING ONLY.



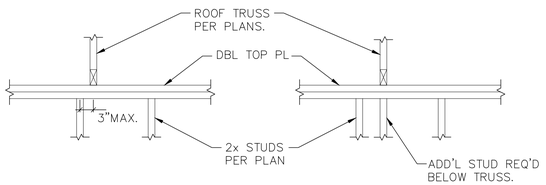


NOTE:
1. NOTCH MAX. 1/3D WITHIN D OF SUPPORT ON TOP SURFACE ONLY.
2. NOTCH MAX. 1/6D WITHIN OUTER 1/3 OF SPAN.
3. NO NOTCHES OR BORINGS MAY BE MADE WITHIN MIDDLE 1/3 OF SPAN.
4. BOTH TOP AND BOT SURFACES MAY NOT BE NOTCHED WITHIN THE SAME 1/3 OF SPAN.

NOTCH OR BORE FRACTION OF JST.	2x6	2x8	2x10	2x12	2x14
1/6 D	⅞"	1⅛"	1½"	1⅞"	2⅛"
1/3 D	1¼"	2⅜"	3"	3¾"	4⅜"

S 2x Framing Boring & Notching
SCALE: N.T.S.

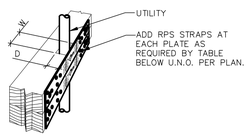
T Typical Ridge / Hip Blocking
SCALE: N.T.S.



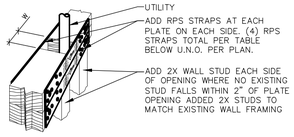
CONDITION A:
IF THE CENTERLINE OF THE TRUSS IS A MAXIMUM OF 3" AWAY FROM THE CENTERLINE OF THE CLOSEST ADJACENT STUD, THEN NO ADDED REINFORCING IS REQUIRED.

CONDITION B:
IF THE CENTERLINE OF THE TRUSS IS GREATER THAN 3" AWAY FROM THE CENTERLINE OF THE CLOSEST ADJACENT STUD, THEN ADDITIONAL REINFORCING IS REQUIRED.

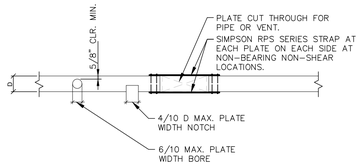
U Truss Bearing Stud Reinforcement @ Top Plate
SCALE: N.T.S.



NOTE:
1) REFER TO CONDITION "C" TO THE RIGHT FOR MAXIMUM ALLOWABLE NOTCH DIMENSIONS WITHOUT ADDITIONAL REINFORCEMENT.
2) FOR 'D' AND 'W' DIMENSIONS EXCEEDING THOSE LISTED, REFER TO CONDITION 'B'.
3) PER TABLE BELOW.
4) NOTIFY STRUCTURAL ENGINEER IF "W" EXCEEDS 12"



NOTE:
1) NOTIFY STRUCTURAL ENGINEER IF "W" EXCEEDS 12"



NOTE:
NAIL RPS STRAP W/(8) 16d SINKER OR (8) 10d COMMON NAILS AT EACH END.

Ⓐ CONDITION "A" – PLATE NOTCH

PLATE WIDTH	D	W	PROVIDE
2X4	1⅜" to 2" MAX.	5" MAX	(2) RPS22
2X4	1⅜" to 2" MAX.	5" to 12" MAX.	(2) RPS22
2X6	2⅛" to 3¼" MAX.	5" MAX	(2) RPS22
2X6	2⅛" to 3¼" MAX.	5" to 12" MAX.	(2) RPS28

Ⓑ CONDITION "B" – PLATE BREAK

PLATE WIDTH	W	PROVIDE
2X4	5" MAX.	(4) RPS18
2X4	5" TO 12" MAX.	(4) RPS22
2X6	5" MAX.	(4) RPS28
2X6	5" TO 12" MAX.	(4) RPS28

Ⓒ MAXIMUM NOTCH OR BORE w/OUT STRUCTURAL REINFOREMENT

		2x4	2x6	2x8
NOTCH	4/10 D	1 3/8"	2 1/8"	3"
BORE	6/10 D	2"	3 1/4"	4 1/4"

V Top Plates - Notch or Bore @ Utilities
SCALE: N.T.S.

NOT USED

W Blocking @ Posts Between Floors
SCALE: N.T.S.

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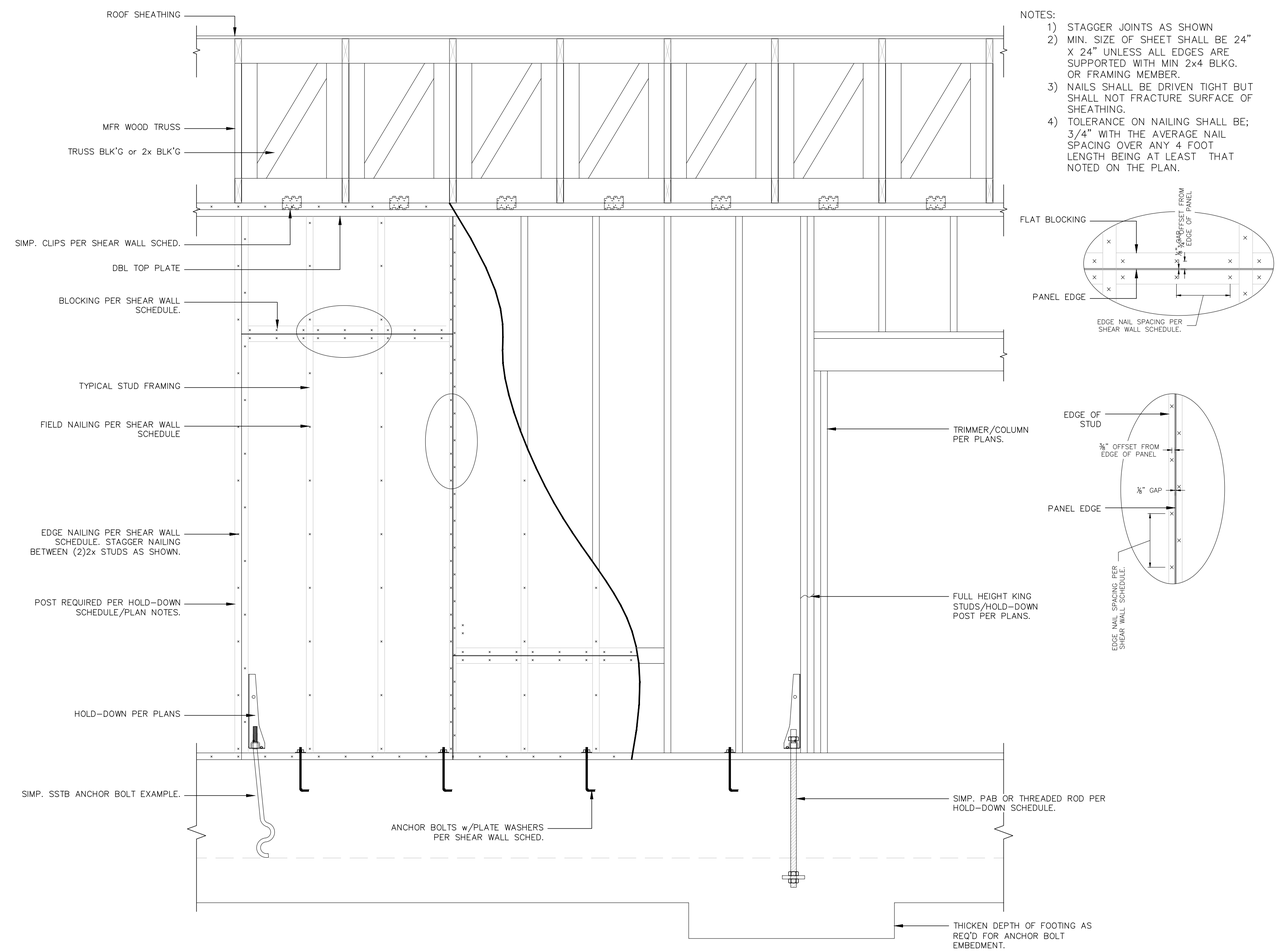
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PLEASANT HILL FORESTRY BUILDING
PLEASANT HILL, OR

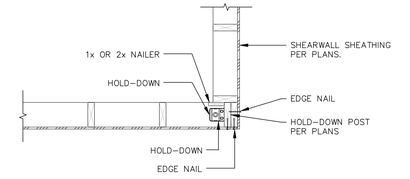
TITLE:
JOB#: 24-001
DRAWN BY: DAH
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ISSUE DATE: 02FEB2024
SCALE:
FULL SIZE SET

S5.1
GENERAL STRUCTURAL DETAILS

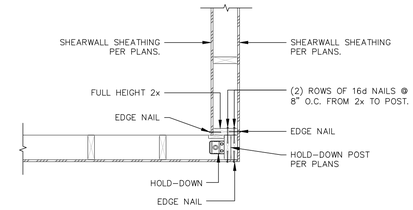


X Typical Shear Wall Layout

SCALE: 3/4" = 1'-0"



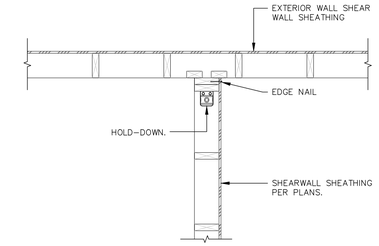
SHEATHING ONE SIDE OF WALL



SHEATHING BOTH SIDES OF WALL

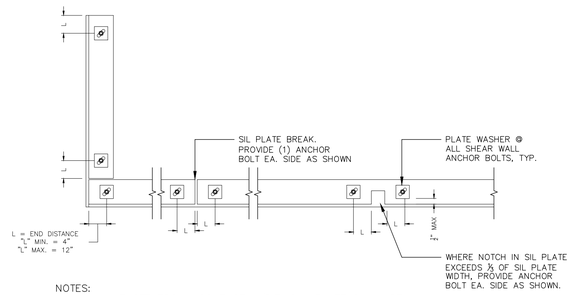
Y Typical Exterior Shearwall/Hold-Down @ Corner

SCALE: 3/4" = 1'-0"



Z Typical Interior Wall Hold-Down @ Exterior Foundation

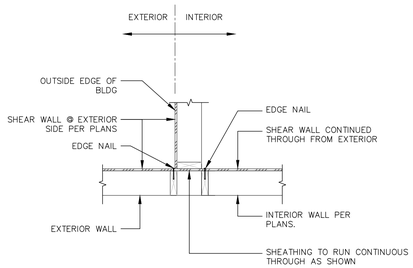
SCALE: 3/4" = 1'-0"



NOTES:
1. ALL FASTENERS IN CONTACT w/P.T. SILL PLATE SHALL BE GALVANZIED.
2. ALL SILL PLATES SHALL BE PRESSURE TREATED D.F. OF WIDTH EQUAL TO DEPTH OF STUDS.
3. ALL OVERSIZED BOLT HOLES (HOLES > 1/16" + A.B. Ø) SHALL BE FILLED w/ EPOXY FOR TIGHT FIT.
4. LOCATE BOLTS CLEAR OF STUDS AND POSTS.
5. PROVIDE A MINIMUM OF TWO BOLTS PER SILL PIECE.
6. WHERE SHEATHING OCCURS ON BOTH FACES, ALTERNATE LOCATIONS OF PLATE WASHERS BETWEEN FACES.

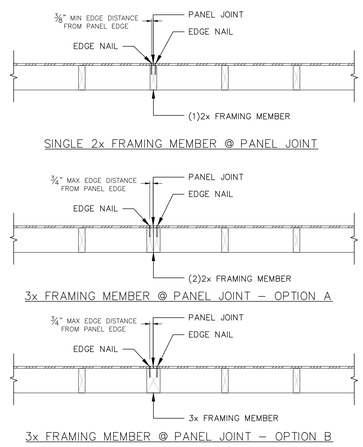
AD Sill Plate Bolt Requirements

SCALE: 3/4" = 1'-0"



AA Exterior Shear Wall Pass Thru to Interior Wall

SCALE: 3/4" = 1'-0"



SINGLE 2x FRAMING MEMBER @ PANEL JOINT

3x FRAMING MEMBER @ PANEL JOINT – OPTION A

3x FRAMING MEMBER @ PANEL JOINT – OPTION B

AB Shearwall Panel Joint @ Stud

SCALE: 3/4" = 1'-0"

NOT USED

AC Exterior Shear Wall Pass Thru to Interior Wall

SCALE: 3/4" = 1'-0"

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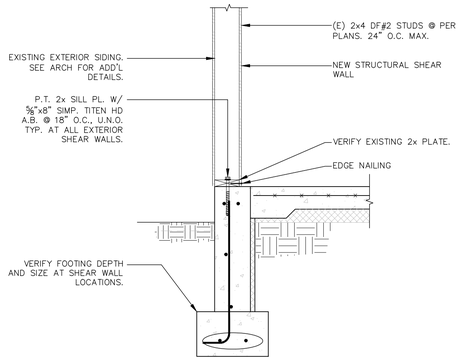
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ISSUE DATE: 02FEB2024

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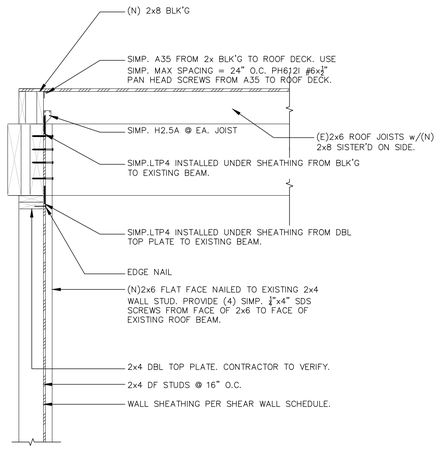
FULL SIZE SET

S5.2
GENERAL STRUCTURAL DETAILS



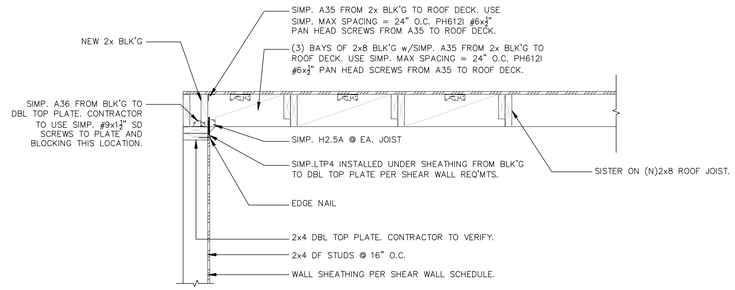
1 EXTERIOR WALL TO FOUNDATION

SCALE: 3/4" = 1'-0"



2 SHEAR WALL AT JOIST BEARING

SCALE: 3/4" = 1'-0"



3 SHEAR WALL AT JOIST PARALLEL

SCALE: 3/4" = 1'-0"

4 NOT USED

SCALE: 3/4" = 1'-0"

5 NEW COLUMN BELOW BEAM

SCALE: 3/4" = 1'-0"

6 NOT USED

SCALE: 3/4" = 1'-0"

7 NOT USED

SCALE: 3/4" = 1'-0"

8 NOT USED

SCALE: 3/4" = 1'-0"

9 NOT USED

SCALE: 3/4" = 1'-0"

10 NOT USED

SCALE: 3/4" = 1'-0"

11 NOT USED

SCALE: 3/4" = 1'-0"

12 NOT USED

SCALE: 3/4" = 1'-0"

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TITLE:

JOB#: 24-001

DRAWN BY: DAH

△ xxx

ISSUE DATE: 02FEB2024

SCALE:

FULL SIZE SET

S6.0
STRUCTURAL DETAILS

ELECTRIC TANK TYPE WATER HEATER

TAG	MANUFACTURER	MODEL	NOMINAL CAPACITY (GAL)	RATED STORAGE VOLUME (GAL)	RECOVERY @ 90°F TEMP. RISE (GPH)	ELECTRICAL	ELEMENT WATTAGE (STANDARD)	BREAKER SIZE	WEIGHT (LBS)	NOTES
EWH-1	A.O. SMITH	EJCS-20	19	17	11	120V / 1 PH	2,500	SEE ELECTRICAL	70	[1] [2] [3] [4]

NOTES:
[1] WEIGHT INDICATED IS SHIPPING WEIGHT (DRY).
[2] WEIGHT OF UNIT AT RATED STORAGE VOLUME: 17 X 8.34 LBS. / GALLON = 142 LBS. + 70 = 212 LBS.
[3] MEETS THERMAL EFFICIENCY AND STANDBY LOSS REQUIREMENTS OF THE U.S. DEPARTMENT OF ENERGY AND CURRENT EDITION OF ASHRAE/IES 90.1.
[3] UNIT DIMENSIONS: 24-3/4" H x 18" DIA.
[4] REFER TO MOUNTING & PIPING DETAIL, 1/P201.

PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE TYPE	DESCRIPTION	CONNECTION				
			WASTE	VENT	HW	CW	NOTES
WC-1	WATER CLOSET	FLOOR MOUNT, TANK TYPE - 1.28 GPF	3"	2"	-	1/2"	[1] [2]
L-1	LAVATORY	WALL MOUNT - 1.5 GPM FAUCET. PROVIDE WITH ASSE 1070 APPROVED POINT OF USE MIXING VALVE OR FAUCET WITH APPROVED TEMPERATURE LIMIT STOP, WITH METAL DRAIN & TAILPIECE, STOPS & SUPPLIES & WASTE AND PIPING ISULATION COVERS.	1-1/2"	1-1/2"	1/2"	1/2"	[1] [2]
KS-1	KITCHEN SINK	18 GA. STAINLESS STEEL, DOUBLE COMPARTMENT W/ DISPOSAL, SINGLE HANDLE HIGH ARC PULLDOWN FAUCET, 1.5 GPM. PROVIDE CONNECTIONS, PIPING, FITTINGS, AND ACCESSORIES FOR A COMPLETE DISHWASHER INSTALLATION.	1-1/2"	1-1/2"	1/2"	1/2"	[1] [2]
DW-1	DISHWASHER	OWNER PROVIDED, CONTRACTOR INSTALLED	1-1/2"	1-1/2"	3/4"	-	[1] [2]
EW-1	EYE WASH	BRADLEY #S19224 - WALL MOUNTED, STAINLESS STEEL BOWL, HIGH VISIBLE PUSH BLADE HANDLE, INTEGRAL 30-90 PSI FLOW CONTROL. PROVIDE BRADLEY S19-2000 THERMOSTATIC MIXING VALVE OPTION. UL CLASSIFIED TO ANSI Z358.1	1-1/2"	-	1/2"	1/2"	[1] [3]
FS-1	FLOOR SINK	12"x12"x8" DEEP, 3" DRAIN W/ SPLIT HALF GRATE.	3"	1-1/2"	-	-	[1] [3] [4]
FD-1	FLOOR DRAIN	SIOUX CHIEF 833-2ANR FLOOR DRAIN W/ NICKEL/BRONZE STRAINER.	2"	1-1/2"	-	-	[1] [3] [4]
TP-1	TRAP PRIMER	PRECISION PLUMBING PRODUCTS MODEL #PO-500 MAY BE PROVIDED WITH DISTRIBUTION UNIT MODEL DU-U TO PRIME UP TO FOUR FLOOR DRAINS. INSTALL PER MAUFACTURERS INSTRUCTIONS.	-	-	-	1/2"	[1] [3]
FCO	FLOOR CLEANOUT	SIUOX CHIEF 834 SERIES W/ ROUND NICKEL/BRONZE TOP (SIZE PER LINE SERVED).	-	-	-	-	[1] [3]
COTG	CLEANOUT TO GRADE	BROOKS 1RT BOX W/ CAST IRON CLEANOUT LID (SIZE PER LINE SERVED).	-	-	-	-	[1] [3]

NOTES:
[1] OWNER FURNISHED / CONTRACTOR INSTALLED.
[2] DESCRIPTION IS FOR GENERAL MINIMUM FIXTURE REQUIREMENTS - VERIFY TYPE AND FEATURES PROVIDED W/ OWNER.
[3] DESCRIPTION IS SUGGESTED MANUFACTURER AND FEATURES PROVIDED - VERIFY W/ OWNER.
[4] PROVIDE TRAP PRIMER - SEE DETAIL 3/P201.

DRAINAGE FIXTURE UNITS (DFU'S)

FIXTURE QTY.	DESCRIPTION		2021 OPSC TABLE 702.1 DFU UNIT VALUE		TOTAL DFU	NOTES
			PRIVATE	PUBLIC		
1	WATER CLOSET	WC-1	-	4.0	4.0	
1	LAVATORY	L-1	-	1.0	1.0	
1	KITCHEN SINK	KS-1	-	2.0	2.0	
1	FLOOR DRAIN	FD-1	-	2.0	2.0	
1	FLOOR SINK	FS-1	-	2.0	2.0	
	TOTAL DFU'S				11.0	[1] [2]

[1] PER 2021 OPSC TABLE 703.2, 3" PIPE HAS MAXIMUM LOADING OF 35 DFU's (HORIZONTAL).
[2] BASED ON SLOPE OF WASTE PIPING AT 1/4" PER FOOT, VERIFY EXISTING WASTE PIPE SIZE AND SLOPE IN FIELD.

WATER SUPPLY FIXTURE UNITS (WSFU) SCHEDULE

FIXTURE		QTY X WSFU (CW)	TOTAL WSFU (CW)	TOTAL WSFU (HW) (CW X 0.75)
WATER CLOSET	WC-1	1 @ 2.5	2.5	...
LAVATORY	L-1	1 @ 1.0	1.0	0.75
KITCHEN SINK	S-1	1 @ 1.5	1.5	1.13
		TOTAL F.U.	5.0	1.88

NOTE: (E) CW SERVICE IS 1" (VERIFY). 1" CW BUILDING SUPPLY FIXTURE UNITS IS 36 @ MAXIMUM ALLOWABLE LENGTH OF 80 FT. AT 46 - 60 PSI PRESSURE RANGE PER 2021 OPSC (UPC) TABLE 610.4.

WATER PIPING SIZING

FIXTURE		QTY X WSFU (CW)	TOTAL WSFU (CW)	TOTAL WSFU (HW) (CW X 0.75)
WATER CLOSET	WC-1	1 @ 2.5	2.5	...
LAVATORY	L-1	1 @ 1.0	1.0	0.75
KITCHEN SINK	KS-1	1 @ 1.5	1.5	...
		TOTAL F.U.	5.0	0.75
		TOTAL EQUIVALENT LENGTH (FT.)	20	...

	COLD WATER	HOT WATER
TOTAL WATER FIXTURE UNITS (WFU TABLE A-103.1)	5.0	0.75
TOTAL FLOW IN GPM FOR LISTED FIXTURES (CHART A-103.1(2))	5	2
GRAND TOTAL BLDG. DEMAND GPM:	5	2
A. SERVICE PRESSURE (DOWNSTEAM OF SITE BFP / REGULATOR) - PSI	60	
B. STATIC HEAD LOSS (.434 X 3)	1.3	
PRESSURE AVAILABLE FOR FRICTION LOSS - PSI (A-B)	58.7	
TOTAL EQUIVALENT PIPE LINE FROM METER TO FURTHEST FIXTURE: (WC-1 IN RESTROOM - INCLUDES MULTIPLIER OF 1.2 FOR FITTINGS / VALVES)	20	
SERVICE SIZE FROM 5 FT, OUTSIDE BUILDING @ 5 GPM (5 WSFU'S) DEMAND (CHART A 103.1(2)): FROM OPSC TABLE 610.4, MAXIMUM ALLOWABLE LENGTH: 60 FT. @ 1" BLDG. SUPPLY & 1" METER - PRESSURE RANGE - 46-60 PSI: **39 WSFU'S**		1" (WATER SERVICE - VERIFY)

LEGEND

MARK	DESCRIPTION
———	WASTE PIPING
- - - - - - - - -	WASTE VENT PIPING
—— — ——	COLD WATER PIPING
——— - - ———	HOT WATER PIPING
═══ - - ═══	HOT WATER PIPING W/ HEAT TRACE TAPE
(E)	EXISTING
(N)	NEW
I.E.	INVERT ELEVATION
FCO	FLOOR CLEAN-OUT
WCO	WALL CLEAN-OUT
COTG	CLEAN-OUT TO GRADE
VTR	VENT THRU ROOF
DN.	DOWN
RPB	REDUCED PRESSURE BACKFLOW ASSEMBLY
WSFU	WATER SUPPLY FIXTURE UNITS
DFU	DRAINAGE FIXTURE UNITS
DW	DOMESTIC WATER
CW	COLD WATER
HW	HOT WATER
W.	WASTE
SS	SANITARY SEWER
V.	VENT
WC	WATER CLOSET
L	LAVATORY
FD	FLOOR DRAIN
FC	FLOOR SINK
MS	MOP SINK
HS	HAND SINK
RS	RINSE SINK
PRS	PRE-RINSE SINK

ENERGY COMPLIANCE NOTES

1. PROVIDE TEMPERATURE CONTROLS ON SERVICE WATER HEATING SYSTEMS TO LIMIT MAXIMUM HOT WATER TEMPERATURE TO <= 120 DEG. F. (ASHRAE STD. 90.1 7.4.4.1).
2. PROVIDE AUTOMATIC TIME SWITCH(ES) TO AUTOMATICALLY SWITCH OFF RECIRCULATING HOT WATER SYSTEMS OR HEAT TRACE TAPE (ASHRAE STD. 90.1 7.4.4.2).
3. PROVIDE HEAT TRAPS ON NON-CIRCULATING STORAGE WATER TANKS (ASHRAE STD. 90.1 7.4.6).
4. PROVIDE TEMPERATURE CONTROLLING MEANS TO LIMIT THE MAXIMUM TEMPERATURE OF WATER DELIVERED FROM LAVATORY FAUCETS IN PUBLIC FACILITY RESTROOMS TO 110 DEG. F. (ASHRAE STD. 90.1 7.4.4.3).
5. INSULATE HOT WATER IN ACCORDANCE WITH 2018 IECC 404.4 & TABLE C403.11.3 AND / OR ASHRAE STD. 90.1 7.4.3 & TABLE 6.8.3-1.
6. INSULATE HEAT TRACED OR EXTERNALLY HEATED PIPING IN ACCORDANCE WITH ASHRAE STD. 90.1 7.4.3. & TABLE 6.8.3-1.

GENERAL NOTES

1. COMPLY WITH CURRENT APPLICABLE STATE OF OREGON, COUNTY, AND CITY BUILDING CODES.
2. COORDINATE PLUMBING INSTALLATION WITH MECHANICAL, ELECTRICAL, AND FIRE PROTECTION CONTRACTORS PRIOR TO CONSTRUCTION.
3. EQUIPMENT AND FIXTURE LOCATIONS TO BE VERIFIED WITH OWNER PRIOR TO ANY WORK BEING DONE.
4. PLUMBING CONTRACTOR IS RESPONSIBLE FOR TESTING AND INSPECTIONS REQUIRED. ANY INSTALLATION DEFICIENCIES ARE TO BE CORRECTED PRIOR TO COVER.
5. COORDINATE PLUMBING INSTALLATION WITH SITE UTILITIES INDICATED ON THE SITE PLAN AND CIVIL DRAWINGS. COORDINATE REQUIRED CONNECTION POINTS AND PIPING MATERIALS TO BE CONNECTED TO SITE UTILITIES – REFER TO CIVIL SITE UTILITIES DRAWINGS.
6. PROVIDE OFFSETS AND ASSOCIATED FITTINGS NOT INDICATED ON DRAWINGS AS REQUIRED.
7. PROVIDE CLEAN-OUTS AS REQUIRED PER 2021 OPSC SECTION 707.0.
8. INSULATE CONDENSATE DRAINS FOR HVAC EQUIPMENT LOCATED INSIDE BUILDING ENVELOPE. DRAIN TO NEAREST APPROVED RECEPTOR OR WHERE INDICATED ON DRAWINGS.
9. SLOPE HORIZONTAL WASTE PIPING AT 2% MINIMUM, UNLESS NOTED OTHERWISE.
10. USE OF PEX PIPING LIMITED TO RUN-OUTS AND DROPS TO FIXTURES.
11. HOT AND COLD WATER RUN-OUTS AND DROPS TO FIXTURES 1/2" UNLESS OTHERWISE NOTED ON DRAWINGS.
12. PROVIDE ISOLATION SHUT-OFF VALVES AT WATER LINE DROPS FROM ABOVE CEILING INSTALLED IN A MANNER AS TO ALLOW WATER TO BE SHUT OFF IN THE EVENT OF A LEAK OR FAILURE.
13. SEISMICALLY BRACE WASTE, VENT, WATER, AND GAS PIPING PER SMACNA STANDARDS, CURRENT EDITION, AS APPLICABLE
14. EXISTING PLUMBING FIXTURES AND EQUIPMENT DEMOLITION UNDER GENERAL CONTRACT SCOPE – REFER TO ARCHITECTURAL DRAWINGS FOR INFORMATION.

GENERAL PIPING MATERIALS NOTES

(REFER TO SPECIFICATION SECTION 22 10 05 FOR ADDITIONAL INFORMATION)

DOMESTIC WATER:
ASTM B88 TYPE L ABOVE GRADE, TYPE K BELOW GRADE W/ WROUGHT COPPER SOLDER TYPE FITTINGS (150 PSI SERVICE), TIN / ANTIMONY SOLDER (ASTM B32-95TA)

PEX PLASTIC TUBING AND JOINTS ALLOWED FOR FINAL CONNECTIONS TO FIXTURES

MATERIALS AND FITTINGS SHALL COMPLY WITH 2021 OPSC SECTION 604.0 AND TABLE 604.1.

DRAIN, SANITARY SEWER, & VENT
SCHEDULE 40 ABS (ASTM D3965 & F628 CELLULAR CORE) ASTM D3965 & D2661 DWV FITTINGS & ASTM D2235 SOLVENT CEMENT (UNLESS NOTED OTHERWISE)

MATERIALS AND FITTINGS SHALL COMPLY WITH 2021 OPSC SECTION 701.0 AND TABLE 701.2.

SHEET INDEX

P001	PLUMBING LEGEND, NOTES & SCHEDULES
P002	PLUMBING / MECHANICAL CODE COMPLIANCE NOTES
P101	PLUMBING FLOOR PLAN - WASTE & VENT
P102	PLUMBING FLOOR PLAN - DOMESTIC WATER
P201	PLUMBING DETAILS

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SHEET TITLE:
PLUMBING LEGEND, NOTES & SCHEDULES

ISSSUE / REVISIONS:
DESCRP. DATE

ISSUE DATE: 02-01-2024

P001

22 00 00 PLUMBING GENERAL

1. CODES:

OSSC	2022 - OREGON STRUCTURAL SPECIALTY CODE
ASCR/SEI	AMERICAN SOCIETY OF CIVIL ENGINEERS/STRUCTURAL ENGINEERING INSTITUTE
OMSC	2022 - OREGON MECHANICAL SPECIALTY CODE
OPSC	2021 - OREGON PLUMBING SPECIALTY CODE
OEESC	2021- OREGON ENERGY EFFICIENCY SPECIALTY CODE
ASHRAE	2019 - STANDARD 90.1

2. STANDARDS OF ORGANIZATIONS:

AABC	ASSOCIATED AIR BALANCE COUNCIL
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR CONDITIONING ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AABC	ASSOCIATED AIR BALANCE COUNCIL
MSS	MANUFACTURERS STANDARDIZATION SOCIETY
NEBB	NATIONAL ENVIRONMENTAL BALANCING BUREAU
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIOSH	NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION
UL	UNDERWRITERS LABORATORIES

PIPING GENERAL

1. PROVIDE PIPING SUPPORTS AT INTERVALS EQUAL TO OR LESS THAN THE SPACING LISTED IN PIPING SUPPORT TABLE 313.3 ACCORDING TO THE MATERIAL (OPSC 313.0, MSS SP-60).

2. PROVIDE PIPING SYSTEM SUPPORT TO PREVENT UNDUE STRAIN ON CONNECTED EQUIPMENT. EACH PIPING SYSTEM TO BE SUPPORTED WITH HANGERS SELECTED FOR THE SPECIFIC PIPING SYSTEM (OR GROUP OF PIPING SYSTEMS WHERE TRAPEZE TYPE HANGERS ARE USED). SUPPORT MATERIALS IN DIRECT CONTACT WITH PIPING SELECTED FOR COMPATIBILITY WITH THE PIPING MATERIAL (WILL NOT PROMOTE GALVANIC ACTION). SUPPORTS TO BE ANCHORED TO APPROVED BUILDING STRUCTURAL MEMBERS (OPSC 313.0).

PIPING INSULATION

1. INSULATION MATERIALS MEET REQUIREMENTS OF NFPA 255 AND UL 723 NOT EXCEEDING 25 FLAME SPREAD RATING OR 50 SMOKE DEVELOPED RATING.

PIPING:

1. PIPING INSULATION IN ACCORDANCE WITH 2018 IEEC TABLE C403.11.3. INSULATION EXPOSED TO WEATHER IS TO BE PROTECTED FROM DAMAGE AND PROVIDED WITH SHIELDING FROM SOLAR RADIATION. (ASHRAE STD. 90.1 - 2019 6.4.4.1.3, 7.4.3).

TABLE 313.3

PIPING SUPPORT SPACING TABLE (OPSC TABLE 313.3) [1]

PIPING MATERIAL	SIZE RANGE	MAX. HORIZ. SPACING	MAX. VERT. SPACING	NOTES
COPPER/COPPER ALLOY TUBING	< OR = TO 1-1/2"	6' - 0"	SEE NOTE [2]	[8]
COPPER/COPPER ALLOY TUBING	> OR = TO 2"	10' - 0"	SEE NOTE [2]	[8]
PEX TUBING	1" OR SMALLER	2' - 8"	SEE NOTE [3]	[9]
PEX TUBING	1-1/4" AND LARGER	3' - 0"	SEE NOTE [3]	[9]
CPVC PIPE	1" OR SMALLER	3' - 0"	SEE NOTE [3]	[10]
CPVC PIPE	1-1/4" AND LARGER	4' - 0"	SEE NOTE [3]	[10]
STEEL PIPE FOR WATER OR DWV	3/4" AND SMALLER	10' - 0"	SEE NOTE [4]	[11]
STEEL PIPE FOR WATER OR DWV	1" AND LARGER	12' - 0"	SEE NOTE [4]	[11]
SCH 40 PVC AND ABS DWV	SEE NOTE [5]	SEE NOTE [5]	SEE NOTE [6]	[10]
STEEL PIPE FOR GAS	1/2"	6'-0"	6'-0"	[11]
STEEL PIPE FOR GAS	3/4" & 1"	8'-0"	8'-0"	[11]
STEEL PIPE FOR GAS	1-1/4" AND LARGER	10'-0"	SEE NOTE [7]	[11]

NOTES:
[1] REFER TO OPSC TABLE FOR ADDITIONAL MATERIALS AND INFORMATION.
[2] EACH FLOOR, NOT TO EXCEED 10 FEET.
[3] BASE AND EACH FLOOR, PROVIDE MID-STORY GUIDES.
[4] EVERY OTHER FLOOR, NOT TO EXCEED 25 FEET.
[5] ALL SIZES, 4'-0"; ALLOW FOR EXPANSION EVERY 30 FEET.
[6] BASE AND EACH FLOOR; PROVIDE MID-STORY GUIDES; PROVIDE FOR EXPANSION EVERY 30 FEET.
[7] 1-1/4" AND LARGER: EVERY FLOOR LEVEL.
[8] SOLDERED, BRAZED, THREADED OR MECHANICAL JOINTS.
[9] COLD EXPANSION, INSERT AND COMPRESSION JOINTS.
[10] SOLVENT CEMENTED JOINTS.
[11] THREADED OR WELDED JOINTS.

OPERATION AND MAINTENANCE

1. PROVIDE OPERATION AND MAINTENANCE MANUAL TO ARCHITECT IN PDF DIGITAL FORMAT AT THE COMPLETION OF THE PROJECT. INCLUDE THE FOLLOWING INFORMATION (ASHRAE STD. 90.1 - 2019 6.7.3.2):

   1.1 COVER SHEET WITH PROJECT NAME, DATE OF SUBSTANTIAL COMPLETION, AND PLUMBING CONTRACTOR CONTACT INFORMATION.

   1.2 EQUIPMENT CAPACITIES.

   1.3 MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS FOR PERIODIC AND ANNUAL MAINTENANCE.

CONDENSATE DISPOSAL

1. CONDENSATE FROM INDOOR COOLING COILS WILL BE COLLECTED VIA PIPING SYSTEM CONNECTION TO THE DRAIN PAN OUTLET (OMSC 307.2). VENTED TRAP TO BE PROVIDED AT THE CONNECTION TO THE PAN (OMSC 307.2.4). CONDENSATE TO BE PIPED TO THE NEAREST APPROVED RECEPTOR FOR DISCHARGE (OMSC 307.2.1, #1 OR #2).

2. CONDENSATE PIPING MATERIALS TO BE AS INDICATED ON DRAWINGS. PIPE SIZED MATCH EQUIPMENT DRAIN CONNECTION, BUT NOT SMALLER THAN NOMINAL $\frac{3}{4}$ INCH INSIDE DIAMETER. PIPING TO BE SLOPED MINIMUM 1% TO THE POINT OF DISCHARGE. MATERIAL APPLICATION IN ACCORDANCE WITH THE TEMPERATURE RATING FOR THE CONDENSATE FROM THE EQUIPMENT SERVED (OMSC 307.1. 307.2).

CONDENSATE DRAIN SIZING TABLE (OMSC 307.2.2)

EQUIPMENT CAPACITY	MINIMUM CONDENSATE PIPE DIAMETER
UP TO 20 TONS REFRIGERATION	3/4 INCH
> 20 THRU 40 TONS REFRIGERATION	1 INCH
> 40 THRU 90 TONS REFRIGERATION	1-1/4 INCH

3. CONDENSATE DRAIN PIPING TERMINATES AT AN APPROVED SANITARY PLUMBING FIXTURE, WHERE INDICATED. MINIMUM 1 INCH GAP PROVIDED BETWEEN DRAIN DISCHARGE AND FIXTURE FLOOD RIM (INDIRECT CONNECTION) (OMSC 307.2.1.1).

4. CONDENSATE PRODUCING EQUIPMENT LOCATED SUCH THAT CONDENSATE OVERFLOW WILL CAUSE DAMAGE TO BUILDING COMPONENTS SHALL BE PROVIDED WITH AUXILIARY PROTECTION AS FOLLOWS:

   4.1 SECONDARY CONDENSATE DRAIN LINE CONNECTED TO THE DRAIN PAN PROVIDED WITH THE EQUIPMENT AT A HIGHER LEVEL THAN THE PRIMARY DRAIN. DRAIN POINT TO TERMINATE SEPARATELY IN A CONSPICUOUS NORMALLY OCCUPIED LOCATION (OMSC 307.2.3.2).

   4.2 A UL 508 COMPLIANT DETECTION DEVICE PROVIDED TO MONITOR THE PRIMARY CONDENSATE DRAIN PAN/DRAIN LINE. DEVICE WIRED TO SHUT DOWN THE EQUIPMENT SERVED UPON DETECTION OF WATER LEVEL HIGHER THAN THE PRIMARY DRAIN OUTLET (OMSC 307.2.3.4).

   4.3 DUCTLESS MINI-SPLIT EQUIPMENT THAT PRODUCES CONDENSATE SHALL BE PROVIDED WITH AN INLINE CHECK VALVE LOCATED IN THE DRAIN LINE OR TRAP (OMSC 307.2.4.1).

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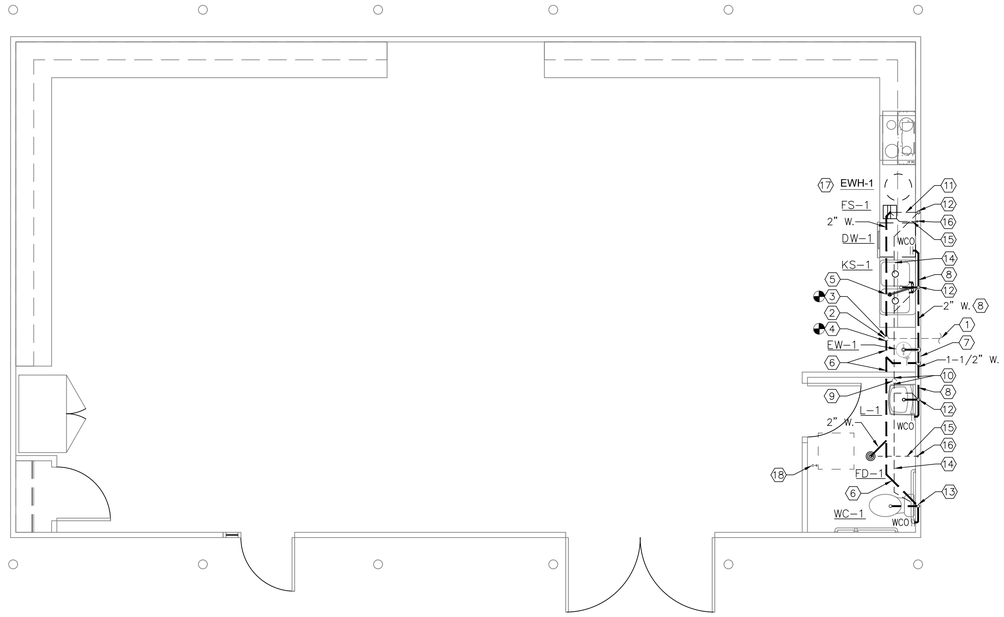
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PLUMBING / MECHANICAL CODE COMPLIANCE NOTES

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#	DESCRP.	DATE

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P003



1 P101 PLUMBING FLOOR PLAN - WASTE & VENT
SCALE: 1/4" = 1'-0"

NORTH

PLAN NOTES - WASTE & VENT

1. (E) BLDG. SANITARY SEWER (SS) BELOW GRADE – VERIFY LOCATION & SIZE.
2. (E) 3" WASTE WYE BELOW GRADE – VERIFY LOCATION & SIZE.
3. P.O.C. 2" W. TO (E) B;DG. SS – VERIFY INVERT ELEVATION.
4. P.O.C. 3" W. TO (E) BLDG. SS – VERIFY INVERT ELEVATION.
5. 2" W. PIPING BELOW GRADE.
6. 3" W. PIPING BELOW GRADE.
7. 2" W. DN. IN WALL TO BELOW FLOOR.
8. WASTE PIPING ROUTED IN WALL.
9. (E) 2" V. UP THRU ROOF – VERIFY SIZE & LOCATION.
10. P.O.C. TO (E) VTR.
11. 1–1/2" V. BELOW FLOOR.
12. 1–1/2" V. UP IN WALL TO ABOVE CEILING.
13. 2" V. UP IN WALL TO ABOVE CEILING.
14. VENT PIPING ABOVE CEILING (TYP.).
15. 1/2" CW BELOW FLOOR.
16. 1/2" CW UP IN WALL TO TRAP PRIMER – FOR CONTINUATION, SEE SHEET P102.
17. WATER HEATER MOUNTED UNDER COUNTER – REFER TO DETAILS 1 & 2/P201.
18. HVAC COOLING COIL MOUNTED ABOVE RESTROOM – CONDENSATE DRAIN TO BE RUN TO TAILPIECE AT LAVATORY. COORDINATE WITH HVAC CONTRACTOR.

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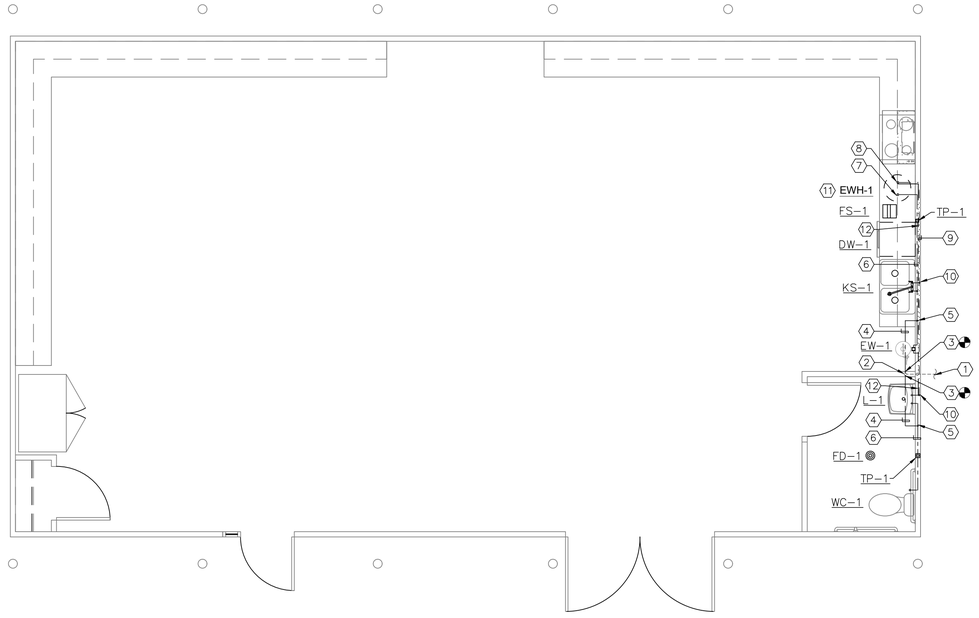
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PLUMBING FLOOR PLAN - WASTE & VENT

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#	DESCRP.	DATE

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P101



1 P102 PLUMBING FLOOR PLAN - DOMESTIC WATER
SCALE: 1/4" = 1'-0"

NORTH

SHEET NOTES

Ⓐ PROVIDE SELF-REGULATING HEATING CABLE ON HW SUPPLY AS SHOWN:
"BRISK-HEAT" OR EQUIVALENT
110-120v., 5 WATTS/FT. (VERIFY LENGTH)
W/ PRE-TERMINATED 3" LONG POWER CORD, STANDARD 3-PRONG GROUNDED PLUG (NEMA-5-15)

PLAN NOTES - DOMESTIC WATER

1. (E) BLDG. CW SERVICE – VERIFY LOCATION & SIZE.
2. (E) CW SERVICE IN WALL, EXTEND TO PROVIDE SERVICE TO FIXTURES AS REQUIRED – VERIFY LOCATION & SIZE.
3. P.O.C. TO CW SERVICE– VERIFY LOCATION AND CONNECTION REQ'TS. (TYP.).
4. 1/2" CW ROUTED ABOVE CEILING.
5. 1/2" CW DN. IN WALL.
6. 1/2" CW IN WALL (TYP.).
7. 1/2" CW TO CONNECTION AT EWH-1.
8. 3/4" HW SUPPLY CONNECTION AT EWH-1.
9. 3/4" HW IN WALL.
10. 1/2" HW DN. IN WALL.
11. WATER HEATER MOUNTED UNDER COUNTER – REFER TO DETAILS 1 & 2/P201.
12. PROVIDE HEAT TRACE TAPE ON MAIN PIPING RUN AS INDICATED – SEE SHEET NOTES.

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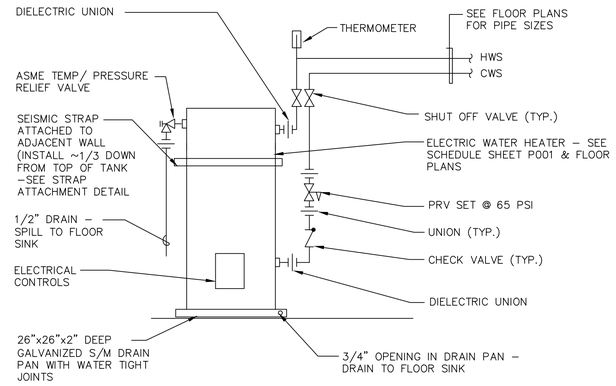
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PLUMBING FLOOR PLAN - DOMESTIC WATER

ISSSUE / REVISIONS:

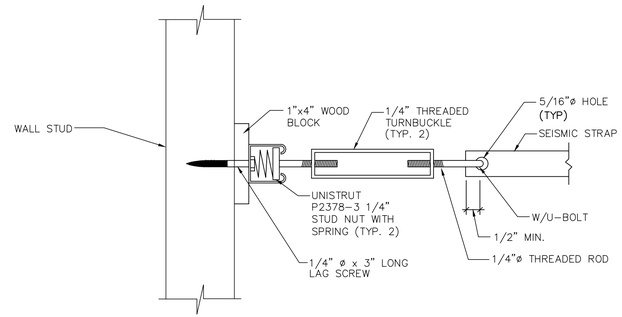
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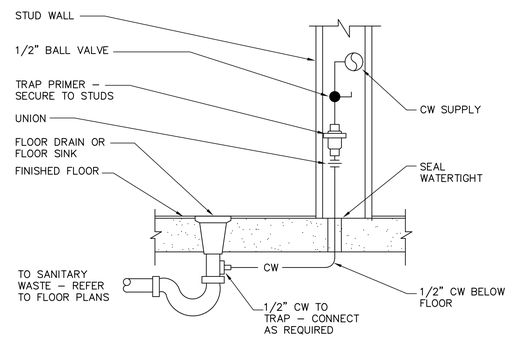
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SCALE		FLOOR MOUNTED WATER HEATER DETAIL	SCALE	
NONE	4		NONE	1



SCALE		SEISMIC STRAP ATTACHMENT DETAIL	SCALE	
NONE	5		NONE	2



SCALE		TRAP PRIMER TO FLOOR DRAIN OR SINK	SCALE	
NONE	6		NONE	3

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MARCH 10, 2006
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02-01-24

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PLEASANT HILL H.S.
FORESTRY CLASSROOM BLDG.

SCHOOL DIST. NO. 1
PLEASANT HILL, OREGON

DESIGNED BY:	BEJ
DRAWN BY:	BEJ
CHECKED BY:	BEJ

SHEET TITLE:
PLUMBING DETAILS

ISSSUE / REVISIONS:

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P201

OUTDOOR AIR VENTILATION SCHEDULE - NATURAL & MECHANICAL

UNIT	VENTILATION ZONE (ROOM NO.)	OCCUPANCY CLASSIFICATION FROM TABLE 403.3.3.1.1	PEOPLE OUTDOOR AIR RATE	AREA OUTDOOR AIR RATE	ZONE POPULATION PER TABLE 403.3.3.1.1	ZONE FLOOR AREA	BREATHING ZONE OUTDOOR AIRFLOW	COOLING		HEATING					MINIMUM REQUIRED NATURAL VENTILATION (SQ. FT. FREE AREA) Per OSSC Sec. 1202.5	ACTUAL NATURAL VENTILATION (Sq. Ft. free area provided)
								ZONE VENTILATION EFFICIENCY	ZONE OUTDOOR AIRFLOW	ZONE VENTILATION EFFICIENCY	ZONE OUTDOOR AIRFLOW	REQUIRED OUTDOOR AIR (CFM)	DESIGN OSA (CFM)	EXHAUST AIRFLOW RATE FROM TABLE 403.3.3.1.1		
			Rp	Ra	Pz	Az	Vbz	Ez	Voz	Ez	Voz	Vou	Vot			
			cfm/per person	cfm/ft2	People	ft2	cfm		cfm		cfm	cfm	cfm	cfm		
NAT. VENT.	Classroom	*Classrooms (age 9 and up)*	10	0.12	30	1,320	458	…	…	…	…	…	…		53	100.5 [1]
FC-1 [2]	Classroom	*Classrooms (ages 9 plus)*	10	0.12	0	1,320	158	1	158	0.8	198	198	200			
	TOTAL FC-1					**1,320**	**158**	**1**	**158**	**0.8**	**198**	**198**	**200**			
CEF-1 [3]	Restroom	*Toilet rooms and bathrooms*	0	0	0	52	…	…	…	…	…	…	…	70 [8]		

NOTES:
[1] BASED ON OPENABLE DOORS TO SPACE: (2) 4'-2" x 8'-10" HINGED DOORS (37 SQ. FT. EACH) AND (1) EXISTING 3'-0" x 8'-10" HINGED DOOR (26.5 SQ. FT.): (2) x 37 + 26.5 = **100.5 SQ. FT.**
[2] MECHANICAL OUTSIDE AIR PROVIDED THROUGH FC-1 AS SUPPLEMENTAL TO THE CODE COMPLIANT NATURAL VENTILATION INDICATED (BASED ON AREA OUTDOOR AIR RATE ONLY).
[3] CEILING EXHAUST FAN CEF-1 IS TO OPERATE INTERMITTENTLY WHILE SPACE IS OCCUPIED VIA INTERLOCK WITH OCCUPANCY CONTROLLED LIGHTS OR WALL SWITCH (COORDINATE WITH ELECTRICAL). CEF-1 PROVIDES **80 CFM** OF EXHAUST AIR. PER OMSC TABLE 403.3.1.1, REQUIRED SPACE EXHAUST AIR FLOW RATE IS **70 CFM**.

SPLIT-SYSTEM EQUIPMENT SCHEDULE

TAG	MANUFACTURER	MODEL	LOCATION	AREA SERVED	COOLING	HEATING	EER/SEER	COP 47/17	HSPF	VOLT/PH.	MCA/FUSE	DESIGN CFM	DESIGN OSA	WEIGHT	NOTES
HP-1	DAIKIN	RXTQ60TAVJU	ON GRADE	FORESTRY CLASSROOM	47,200	54,100	9.2 / 15.5	3.1 / 1.8	10.5	208/1	29.1 / 35	.....	.....	225	[1] [2] [3]
FC-1	DAIKIN	FTXQ54PAVJU	ABOVE RESTROOM CEILING	FORESTRY CLASSROOM	.....	.....	.....	.....	.....	208/1	8.0 / 15	1,800	250	170	[4][5] [6]

NOTES:
[1] VERIFY VOLTAGE AND PHASE BEFORE ORDERING EQUIPMENT
[2] COOLING CAPACITY IS @ 110 DEG. FDB OUTDOOR AMBIENT AIR TEMP. / 67 DEG. FWB INDOOR AIR TEMP.
[3] HEATING CAPACITY IS @ 17 DEG. FDB OUTDOOR AMBIENT AIR TEMP. / 70 DEG. FDB INDOOR AIR TEMP.
[4] AIRFLOW RANGE (CFM) INDICATED AT HIGH FAN SETTING.
[5] PROVIDE FILTER RACK W/ ACCESS PANEL AT RETURN AIR INLET W/ 20"x20"x2" DISPOSABLE FILTER
[6] PROVIDE CONDENSATE DRAIN PAN LEVEL SENSOR (AQUA-GUARD MODEL AG-1250, OR EQUIVALENT) TO DISABLE UNIT IN THE EVENT OF A STOPPAGE IN THE CONDENSATE DRAINAGE SYSTEM PER 2022 OMSC SECTION C307, ARTICLE C307.5 (EXCEPTION).

EXHAUST FAN SCHEDULE

TAG	MANUFACTURER	MODEL	TYPE	AREA SERVED	DRIVE	AIR FLOW(CFM)	ESP.(WC)	FAN RPM	VOLT/PH.	HP	AMPS / WATTS	OPER. WEIGHT (LBS.)	NOTES
CEF-1	GREENHECK	SP-B90	CEILING MOUNTED	PUBLIC RESTROOM	DIRECT	80	0.2	700	115 / 1	…	0.18 / 21	15	[1]

[1] INTERLOCK W/ LIGHTS OR OCCUPANCY SENSOR, PROVIDE W/ TIME DELAY SHUT-OFF.

GENERAL NOTES

1. ENTIRE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE 2022 OSSC, 2022 OMSC, 2021 OEESC, CITY & COUNTY CODES, AND OTHER APPLICABLE CODES AND REGULATIONS.
2. COORDINATE ENTIRE INSTALLATION OF THE H.V.A.C. SYSTEM WITH THE WORK OF OTHER TRADES PRIOR TO ANY FABRICATION OR INSTALLATION. PROVIDE FITTINGS, OFFSETS, AND TRANSITIONS AS REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
3. PLATFORMS, CURBS AND FLASHINGS FOR MECHANICAL EQUIPMENT SHALL BE AS INDICATED ON THE PLANS, UNLESS NOTED OTHERWISE.
4. EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. PROVIDE FITTINGS, TRANSITIONS, DAMPERS, VALVES, AND OTHER DEVICES REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
5. CONSTRUCT, ERECT AND TEST DUCTWORK IN ACCORDANCE WITH THE MOST RESTRICTIVE OF LOCAL REGULATIONS, 2022 OMSC, PROCEDURES DETAILED IN THE ASHRAE HANDBOOK OF FUNDAMENTALS OR THE APPLICABLE STANDARDS ADOPTED BY THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION. A COPY OF THE SMACNA STANDARDS SHALL BE KEPT AT THE JOB FOR REFERENCE BY THOSE REVIEWING THE WORK.
6. DUCT SIZES ARE NET INSIDE CLEAR DIMENSIONS (I.E. NOT INCLUDING LINER). DUCT JOINTS SHALL BE SEALED AIR TIGHT. PROVIDE STRAP, TRAPEZE, OR ROD HANGERS.
7. DUCT INSULATION AND LININGS, INCLUDING ADHESIVES WHEN USED, SHALL HAVE A FLAME SPREAD INDEX NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723..
8. DUCTWORK INSULATION SHALL HAVE THERMAL CONDUCTANCE OF 0.24 BTU PER SQ. IN./SQ. FT. PER DEG. F. PER HOUR AT A MEAN TEMPERATURE OF 75 DEG. F. AT 1-1/2 LB./CU. FT. DENSITY. LINER SHALL BE TREATED WITH A FIRE DAMAGE AND MILDEW RESISTANT SURFACE. FIBERGLASS DUCT WRAP BLANKET SHALL HAVE A THERMAL CONDUCTANCE OF 0.27 BTU PER IN./ SQ. FT. /DEG. F. PER HOUR AT A MEAN TEMPERATURE OF 75 DEG. F., AT 0.75 LB./CU. FT. DENSITY, WITH FSK FOIL REINFORCED FIRE-RESISTANT FACING AND A VAPOR BARRIER RATING OF 0.5 PERM.
9. DUCTWORK AND PLENUM INSULATION SHALL COMPLY WITH ASHRAE STD. 90.1 – 2019 SECTION 6.6.4.1.2 AND TABLE 6.8.2 REQUIREMENTS.
10. LOCATIONS SHOWN ON PLANS FOR THERMOSTATS, SENSORS, AND SWITCHES CONTROLLING HVAC EQUIPMENT ARE SUGGESTED AND ARE TO BE VERIFIED AND COORDINATED WITH ARCHITECTURAL DRAWINGS AND ELECTRICAL DEVICE LAYOUTS.
11. EXISTING MECHANICAL EQUIPMENT DEMOLITION UNDER GENERAL CONTRACT SCOPE – REFER TO ARCHITECTURAL DRAWINGS FOR INFORMATION.

LEGEND

MARK	DESCRIPTION	MARK	DESCRIPTION
UP / DN.	SUPPLY DUCTS		SUPPLY DIFFUSER
UP / DN.	RETURN DUCTS		RETURN GRILLE
UP / DN.	EXHAUST DUCTS		EXHAUST GRILLE
SA	SUPPLY AIR	T	THERMOSTAT
RA	RETURN AIR	S	SENSOR
EA	EXHAUST AIR	C	CONTROLLER
OSA	OUTSIDE AIR	OC	OCCUPANCY SENSOR
CFM	CUBIC FEET PER MIN.	CO2	CARBON DIOXIDE
CEF	CEILING EXHAUST FAN	AHU	AIR HANDLING UNIT
REF	ROOF EXHAUST FAN	EUH	ELECTRIC UNIT HEATER
RTU	ROOFTOP UNIT	FD	FIRE DAMPER
MUA	MAKE-UP AIR	FSD	FIRE/SMOKE DAMPER
O.C.	ON CENTER	BDD	BACKDRAFT DAMPER
SQ./FT.	SQUARE FOOT	CSD	CEILING SUPPLY DIFFUSER
CU./FT.	CUBIC FOOT	SWG	SIDEWALL SUPPLY GRILLE
LBS.	POUNDS	SRG	SIDEWALL RETURN GRILLE
ø	DIAMETER	SEG	SIDEWALL EXHAUST GRILLE
MVD	MANUAL VOL. DAMPER	RGC	RETURN GRILLE CEILING
G.C.	GENERAL CONTRACTOR	EGC	EXHAUST GRILLE CEILING
A.F.F.	ABOVE FINISHED FLOOR	EGC	EXHAUST GRILLE CEILING
TYP.	TYPICAL	STG	SIDEWALL TRANSFER GRILLE
EF	EXHAUST FAN	CTG	CEILING TRANSFER GRILLE

SHEET INDEX

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M002	MECHANICAL CODE COMPLIANCE NOTES
M101	HVAC FLOOR PLAN
M201	HVAC DETAILS

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HVAC LEGEND, NOTES & SCHEDULES

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M001

23 00 00 HVAC GENERAL

1. CODES:

OSSC	2022 - OREGON STRUCTURAL SPECIALTY CODE
ASCR/SEI	AMERICAN SOCIETY OF CIVIL ENGINEERING / STRUCTURAL ENGINEERING INSTITUTE
OMSC	2022 - OREGON MECHANICAL SPECIALTY CODE
OPSC	2021 - OREGON PLUMBING SPECIALTY CODE
OEESC	2021 - OREGON ENRGY EFFICIENCY SPECIALTY CODE
ASHRAE	2019 - STANDARD 90.1

2. STANDARDS OF ORGANIZATIONS:

AABC	ASSOCIATED AIR BALANCE COUNCIL
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR CONDITIONING ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
MSS	MANUFACTURERS STANDARDIZATION SOCIETY
NEBB	NATIONAL ENVIRONMENTAL BALANCING BUREAU
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIOSH	NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION
UL	UNDERWRITERS LABORATORIES

3. DESIGN CONDITIONS

3.1. LOCATION: PLEASANT HILL, OREGON

3.2. DESIGN HEATING:
OUTDOOR db 23° F. INDOOR db 68° F (OSSC 1203.1, OMSC 309.1).

DESIGN COOLING:
OUTDOOR db 95° F, wb 66° F. INDOOR db 73° F.

3.3. HEATING AND COOLING LOADS CALCULATED USING AN ASHRAE-METHODS BASED HVAC LOADS CALCULATION PROGRAM. PROCEDURES COMPLIANT WITH ASHRAE / ACCA STANDARD 183 OR THE ASHRAE HANDBOOK OF FUNDAMENTALS (ASHRAE STD. 90.1 - 2019 6.4.2.1, OMSC 310.1).

4. VENTILATION

4.1. MINUMUM OUTDOOR AIRFLOW RATES DETERMINED IN ACCORDANCE WITH OMSC 403.3.1 & 403.2. SYSTEMS ARE DESIGNED TO DELIVER THE REQUIRED RATE OF OUTDOOR AIRFLOW TO THE BREATHING ZONE WITHIN EACH OCCUPIABLE SPACE. REFER TO THE VENTILATION AIR COMPLIANCE SCHEDULE INCLUDED ON THE DRAWINGS FOR SPECIFIC CRITERIA, PROCEDURES, AND VENTILATION RATES.

4.2. COMBINED AIR CONDITIONING / VENTILATION SYSTEMS WILL BE CONTROLLED TO OPERATE DURING OCCUPIED PERIODS FOR THE SPACES SERVED (OMSC 405.1).

4.3. REQUIRED VENTILATION MAY BE PROVIDED THROUGH MECHANICAL OR NATURAL PATHWAYS. AREAS WITH OUTDOOR OPENINGS USED FOR NATURAL VENTILATION SHALL BE NOT LESS THAN 4 PERCENT OF THE FLOOR AREA SERVED (OSSC 1202.5.1, OMSC 402.1 & 402.2). REFER TO OUTSIDE AIR VENTILATION SCHEDULE FOR SPACE SPECIFIC COMPLIANCE APPROACH.

4.4. OPENINGS TO THE OUTDOORS UTILIZED FOR NATURAL VENTILATION INCLUDE: DOORS AND OPERABLE WINDOWS. OPERATIONAL CONTROLS AND/OR MECHANISMS FOR THESE OPENINGS ARE PROVIDED WITH READY ACCESS TO BUILDING OCCUPANTS (OSSC 1202.5, OMSC 402.1).

23 05 50 SEISMIC CONTROL

1. NEW DUCTWORK AND EQUIPMENT TO BE SUPPORTED AND BRACED IN ACCORDANCE WITH OMSC 301.15, OSSC CHAPTER 16 AND ASCE/SEI CHAPTER 7.
2. INSTALLED DUCTWORK ON THIS PROJECT HAS LESS THAN 6 SQ. FT. CROSS-SECTIONAL AREA (UNLESS INDICATED OTHERWISE).
3. INDIVIDUAL DUCT DISTRIBUTION SYSTEM COMPONENTS WEIGHT LESS THAN 75 LBS. AND THE DISTRIBUTION SYSTEM WEIGHS 5 LBS./FT. OR LESS (UNLESS INDICATED OTHERWISE).
4. INDIVIDUAL EQUIPMENT OPERATION WEIGHT IS LESS THAN 400 LBS. AND THE EQUIPMENT IS MOUNTED LESS THAN 4 FEET ABOVE THE ROOF (UNLESS INDICATED OTHERWISE).

23 07 00 INSULATION

1. INSULATION MATERIALS MEET REQUIREMENTS OF NFPA 255 AND UL 723 NOT EXCEEDING 25 FLAME SPREAD RATING OR 50 SMOKE DEVELOPED RATING.
2. OUTSIDE AIR, SUPPLY AIR AND RETURN AIR DUCTWORK LOCATED IN AN UNCONDITIONED SPACE INSULATED TO MINIMUM R-5. SUPPLY AIR AND RETURN AIR DUCTWORK LOCATED OUTSIDE OF THE BUILDING INSULATION ENVELOPE INSULATED TO MINIMUM R-8. OUTSIDE AIR, SUPPLY AIR AND RETURN AIR DUCTWORK LOCATED INSIDE THE BUILDING ENVELOPE AND CARRYING AIR MORE THAN 15° F. WARMER/COOLER THAN THE SURROUNDING AIR WILL BE INSULATED. (ASHRAE STD. 90.1 - 2019 6.4.4.1.2).
3. APPLICATION:

   OUTSIDE AIR INTAKE DUCT, UNCONDITIONED SPACE - DUCT WRAP, 1-1/2" THICKNESS, R-4.2.

   SUPPLY AIR DUCT, UNCONDITIONED SPACE - DUCT WRAP, 1-1/2" THICKNESS, R-4.2.

   RETURN AIR DUCT, UNCONDITIONED SPACE - DUCT WRAP, 1-1/2" THICKNESS, R-4.2.

   EXHAUST AIR DUCT (GENERAL EXHAUST) - UNINSULATED.

PIPING:

4. INSTALL HVAC PIPING INSULATION IN ACCORDANCE WITH ASHRAE STANDARD 90.1 - 6.4.4.1.3. INSULATION EXPOSED TO WEATHER IS TO BE PROTECTED FROM DAMAGE AND PROVIDED WITH SHIELDING FROM SOLAR RADIATION.

23 09 00 CONTROL FOR HVAC

1. HVAC SYSTEM CONTROL WILL BE PROVIDED THROUGH USE OF DISTRIBUTED INDIVIDUALLY PROGRAMMABLE THERMOSTATS. CAPABILITIES INCLUDE 7-DAY PROGRAMMING WITH UP TO 4 SET-POINT CHANGES PER DAY (OCCUPIED AND UNOCCUPIED HOURS), (3) HEATING AND (2) COOLING STAGES, AUTO CHANGE-OVER HEATING/COOLING, LOCAL SET-POINT ADJUSTMENT LIMITING, AND BATTERY BACKUP. MANUAL OVERRIDE FEATURE ALLOWS UP TO 2-HOURS OF OCCUPANT INITIATED OCCUPIED OPERATION (ADJUSTABLE). (ASHRAE STD. 90.1 - 2019 6.4.3).
2. LINE VOLTAGE ELECTRICAL BY OTHERS.
3. NEW HVAC SYSTEMS INCLUDE ONE TEMPERATURE CONTROL DEVICE PER ZONE RESPONDING TO TEMPERATURES WITHIN THE ZONE. (ASHRAE STD. 90.1 - 2019 6.4.3.1.1).
3. ZONE THERMOSTATS CAPABLE OF DEAD-BAND, OFF-HOUR, AND AUTOMATIC SET-BACK TEMPERATURE CONTROL. (ASHRAE STD. 90.1 - 2019 6.4.3.1.2, 6.4.3.3, 6.4.3.3.1).
4. DEAD-BAND: 5° F. (BETWEEN DUAL SET-POINTS FOR HEATING/COOLING). (ASHRAE STD. 90.1 - 2019 6.4.3.1.2).
5. OFF-HOUR SET-BACK: 55° F. HEATING, 85° F. COOLING (ASHRAE STD. 90.1 - 2019 6.4.3.3).
6. HVAC SYSTEM CONTROLS CAPABLE OF VARYING START TIME OF SYSTEM TO JUST MEET TEMPERATURE SET POINT AT TIME OF OCCUPANCY (ASHRAE STD. 90.1 - 2019 6.4.3.3.3).
7. DUCT MOUNTED OUTDOOR AIR, EXHAUST, AND RELIEF SHUT-OFF DAMPERS PROVIDED FOR AIR VOLUMES GREATER THAN 300 CFM. DAMPERS TO BE CLASS I, MOTORIZED, WITH LEAKAGE RATE OF NOT MORE THAN 10 CFM PER SQ. FT. AT 1.0" W.C. TESTED PER AMCA 500D, (ASHRAE STD. 90.1 - 2019 6.4.3.4.2, 6.4.3.4.3).
8. SETBACK CONTROLS TO ALLOW AUTOMATICRESTART AND TEMPORARY OPERATION AS REQUIRED FOR MAINTENANCE. (ASHRAE STD. 90.1 - 2019 6.4.3.3.2).

23 20 00 PIPING GENERAL

1. PROVIDE MECHANICAL PIPING SUPPORTS WILL BE PROVIDED AT INTERVALS EQUAL TO OR LESS THAN THE SPACING LISTED IN THE PIPING SUPPORT TABLE BELOW, ACCORDING TO THE MATERIAL (OMSC 305.4, MSS SP-60).

PIPING SUPPORT SPACING TABLE (OMSC 305.4, C415.1)

PIPING MATERIAL	SIZE RANGE	MAX. HORIZ. SPACING	MAX. VERT. SPACING	NOTES
COPPER/COPPER ALLOY TUBING	< OR = TO 1-1/4"	6' - 0"	10' - 0"	
COPPER/COPPER ALLOY TUBING	> OR = TO 1-1/2"	10' - 0"	10' - 0"	
PEX TUBING	3/4" TO 1-1/2"	2' - 8"	10' - 0"	W/ MID STORY GUIDE
PVC PIPE	3/4" TO 2"	4' - 0"	10' - 0"	W/ MID STORY GUIDE
STEEL PIPE	1/2"	6' - 0"	6' - 0"	
STEEL PIPE	3/4" OR 1"	8' - 0"	8' - 0"	
STEEL PIPE	1-1/4" OR LARGER	10' - 0"	SEE NOTE	EVERY FLOOR LEVEL

2. PROVIDE PIPING SYSTEM SUPPORT TO PREVENT UNDUE STRAIN ON CONNECTED EQUIPMENT. EACH PIPING SYSTEM TO BE SUPPORTED WITH HANGERS SELECTED FOR THE SPECIFIC PIPING SYSTEM (OR GROUP OF PIPING SYSTEMS WHERE TRAPEZE TYPE HANGERS ARE USED). SUPPORT MATERIALS IN DIRECT CONTACT WITH PIPING SELECTED FOR COMPATIBILITY WITH THE PIPING MATERIAL (WILL NOT PROMOTE GALVANIC ACTION). SUPPORTS TO BE ANCHORED TO APPROVED BUILDING STRUCTURAL MEMBERS (OMSC 305.2, 305.3).

23 70 00 HVAC EQUIPMENT

1. EQUIPMENT INSTALLATION WILL CONFORM TO THE MORE RESTRICTIVE OF: THE CONDITIONS AND REQUIREMENTS ASSOCIATED WITH APPROVAL AND LISTING FOR THE EQUIPMENT, THE MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND THE OMSC (OMSC 304.1, 304.2 - EXCEPTION).
2. NEW HVAC EQUIPMENT SELECTION FOR HEATING AND / OR COOLING CAPACITY MADE IN CONFORMANCE WITH IECC C403.3.1 & ASHRAE STD. 90.1 - 6.4.2.1. NEW HVAC PERFORMANCE REQUIREMENTS IN ACCORDANCE WITH IECC C403.3.2 & ASHRAE STD. 90.1 - 6.4.1.1. REFER TO EQUIPMENT SCHEDULES ON THE DRAWINGS FOR SPECIFIC PERFORMANCE ASSOCIATED WITH EACH UNIT.

CONDENSATE DISPOSAL

1. CONDENSATE FROM INDOOR COOLING COILS WILL BE COLLECTED VIA PIPING SYSTEM CONNECTION TO THE DRAIN PAN OUTLET (OMSC 307.2). VENTED TRAP TO BE PROVIDED AT THE CONNECTION TO THE PAN (OMSC 307.2.4). CONDENSATE TO BE PIPED TO THE NEAREST APPROVED RECEPTOR FOR DISCHARGE (OMSC 307.2.1, #1 OR #2).
2. CONDENSATE PIPING MATERIALS TO BE AS INDICATED ON DRAWINGS. PIPE SIZED MATCH EQUIPMENT DRAIN CONNECTION, BUT NOT SMALLER THAN NOMINAL $\frac{3}{4}$ INCH INSIDE DIAMETER. PIPING TO BE SLOPED MINIMUM 1% TO THE POINT OF DISCHARGE. MATERIAL APPLICATION IN ACCORDANCE WITH THE TEMPERATURE RATING FOR THE CONDENSATE FROM THE EQUIPMENT SERVED (OMSC 307.1. 307.2).

CONDENSATE DRAIN SIZING TABLE (OMSC 307.2.2)

EQUIPMENT CAPACITY	MINIMUM CONDENSATE PIPE DIAMETER
UP TO 20 TONS REFRIGERATION	3/4 INCH
> 20 THRU 40 TONS REFRIGERATION	1 INCH
> 40 THRU 90 TONS REFRIGERATION	1-1/4 INCH

3. CONDENSATE DRAIN PIPING TERMINATES AT AN APPROVED SANITARY PLUMBING FIXTURE, WHERE INDICATED. MINIMUM 1 INCH GAP PROVIDED BETWEEN DRAIN DISCHARGE AND FIXTURE FLOOD RIM (INDIRECT CONNECTION) (OMSC 307.2.1.1).
4. CONDENSATE PRODUCING EQUIPMENT LOCATED SUCH THAT CONDENSATE OVERFLOW WILL CAUSE DAMAGE TO BUILDING COMPONENTS SHALL BE PROVIDED WITH AUXILIARY PROTECTION AS FOLLOWS:

   4.1 SECONDARY CONDENSATE DRAIN LINE CONNECTED TO THE DRAIN PAN PROVIDED WITH THE EQUIPMENT AT A HIGHER LEVEL THAN THE PRIMARY DRAIN. DRAIN POINT TO TERMINATE SEPARATELY IN A CONSPICUOUS NORMALLY OCCUPIED LOCATION (OMSC 307.2.3.2).

   4.2 A UL 508 COMPLIANT DETECTION DEVICE PROVIDED TO MONITOR THE PRIMARY CONDENSATE DRAIN PAN/DRAIN LINE. DEVICE WIRED TO SHUT DOWN THE EQUIPMENT SERVED UPON DETECTION OF WATER LEVEL HIGHER THAN THE PRIMARY DRAIN OUTLET (OMSC 307.2.3.4).

   4.3 DUCTLESS MINI-SPLIT EQUIPMENT THAT PRODUCES CONDENSATE SHALL BE PROVIDED WITH AN INLINE CHECK VALVE LOCATED IN THE DRAIN LINE OR TRAP (OMSC 307.2.4.1).

23 95 00 TESTING, ADJUSTING AND BALANCING

1. NEW OR REMODELED HVAC SYSTEMS SHOWN ON THE DRAWINGS (SUPPLY,RETURN, RELIEF, EXHAUST, AND OUTSIDE AIR SYSTEMS) ARE TO BE TESTED AND BALANCED (TAB) BY AN INDEPENDENT TESTING AND BALANCING AGENCY. AGENCY TO HAVE CURRENT NEBB CERTIFICATION OR AABC CERTIFICATION. TAB TO BE SUPERVISED BY AGENCY'S CURRENTLY NEBB OR AABC CERTIFIED PERSONNEL. TAB AGENCY TO PROVIDE ALL INSTRUMENTS, LABOR AND MATERIALS NEEDED TO FULLY TEST AND BALANCE THE SYSTEMS FOR THE PROJECT INCLUDING SHEAVE ADJUSTMENT / CHANGE OUT.
2. HVAC SYSTEMS SHALL BE IN FULL OPERATION FOR TAB PROCESS, SYSTEMS SHALL BE BALANCED WITHIN +10% / -5% OF DESIGN REQUIREMENTS AND MAINTAINING PRESSURE RELATIONSHIPS AS DESIGNED (PRESSURE RELATIONSHIPS HAVE PRIORITY OVER TOLERANCE LISTED). VERIFY MINIMUM OUTSIDE AIR VOLUMES, AND ECONOMIZER CAPABILITIES. TAB PROCEDURES TO BE IN ACCORDANCE WITH NEBB MANUAL OF PRACTICE OR AABC RECOMMENDATIONS.
3. BEFORE BEGINNING TAB WORK ON SITE, SUBMIT A LIST OF PROCEDURES TO BE FOLLOWED BY TAB PERSONNEL FOR THE SPECIFIC TAB TASKS AND A TAB PLAN FOR THE PROJECT.
4. ONE (1) ELECTRONIC COPY IN PDF FORMAT OF THE PRELIMINARY TEST AND BALANCE REPORT TO BE PROVIDED TO INNOVATIVE AIR, INC. FOR REVIEW AND COMMENT. PROVIDE (1) ELECTRONIC COPY IN PDF FORMAT OF THE FINAL TEST AND BALANCE REPORT, UPDATED TO INCLUDE ANY SUBSEQUENT PERFORMANCE ADJUSTMENTS, TO INNOVATIVE AIR, INC.
5. TAB REPORT, AT A MINIMUM, TO INCLUDE THE FOLLOWING INFORMATION:

   - TITLE PAGE
   - TAB AGENCY NAME/ADDRESS/TELEPHONE NUMBER
   - PROJECT NAME
   - DATE OF REPORT
   - NEBB OR AABC CERTIFICATION STATEMENT
   - NAME / SIGNATURE AND CERTIFICATION OF TAB SUPERVISOR
   - TABLE OF CONTENTS
   - REPORT SUMMARY, INCLUDING ANY PERFORMANCE ISSUES WITH SUGGESTED RESOLUTIONS
   - INSTRUMENT LIST INCLUDING TYPE, MFR, MODEL, CALIBRATION DATE
   - TAB DATA LOGS, ORGANIZED BY SYSTEM, SHOWING INITIAL AND ADJUSTED CONDITIONS DELINEATED BY SYSTEM, BRANCH, AND TERMINAL.
   - SPECIFIC DATA TO INCLUDE SUPPLY AIRFLOW, RETURN AIRFLOW, EXHAUST AIRFLOW, OUTSIDE AIRFLOW (AT SYSTEMS MINIMUM AND MAXIMUM IF V.A.V.)
   - AIR HANDLER PERFORMANCE AT CLEAN FILTER PRESSURE DROP AND SIMULATED DIRTY FILTER DROP

23 95 10 OPERATION AND MAINTENANCE

1. PROVIDE OPERATION AND MAINTENANCE MANUAL TO ARCHITECT IN PDF DIGITAL FORMAT AT THE COMPLETION OF THE PROJECT. INCLUDE THE FOLLOWING INFORMATION (ASHRAE STD. 90.1 - 2019 6.7.3.2):

   1.1 COVER SHEET WITH PROJECT NAME, DATE OF SUBSTANTIAL COMPLETION, AND HVAC CONTRACTOR CONTACT INFORMATION.

   1.2 EQUIPMENT CAPACITIES (INPUT AND OUTPUT).

   1.3 MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS FOR PERIODIC AND ANNUAL MAINTENANCE.

   1.4 HVAC SYSTEM CONTROL MAINTENANCE AND CALIBRATION INFORMATION. THIS WILL INCLUDE SYSTEM SCHEMATICS, WIRING DIAGRAMS, AND CONTROL SEQUENCE DESCRIPTIONS.

   1.5 A RECORD OF FINAL OWNER DESIRED, OR FIELD DETERMINED, SET-POINTS.

   1.6 WRITTEN NARRATIVE OF HOW EACH HVAC SYSTEM IS INTENDED TO OPERATE.

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#81286PE
OREGON
MARCH 10, 2006
BRIAN E. JACOBY
RENEWS: 7/01/2025

02-01-24

PERMIT SET

PLEASANT HILL H.S.
FORESTRY CLASSROOM BLDG.

SCHOOL DIST. NO. 1
PLEASANT HILL, OREGON

DESIGNED BY:	BEJ
DRAWN BY:	BEJ
CHECKED BY:	BEJ

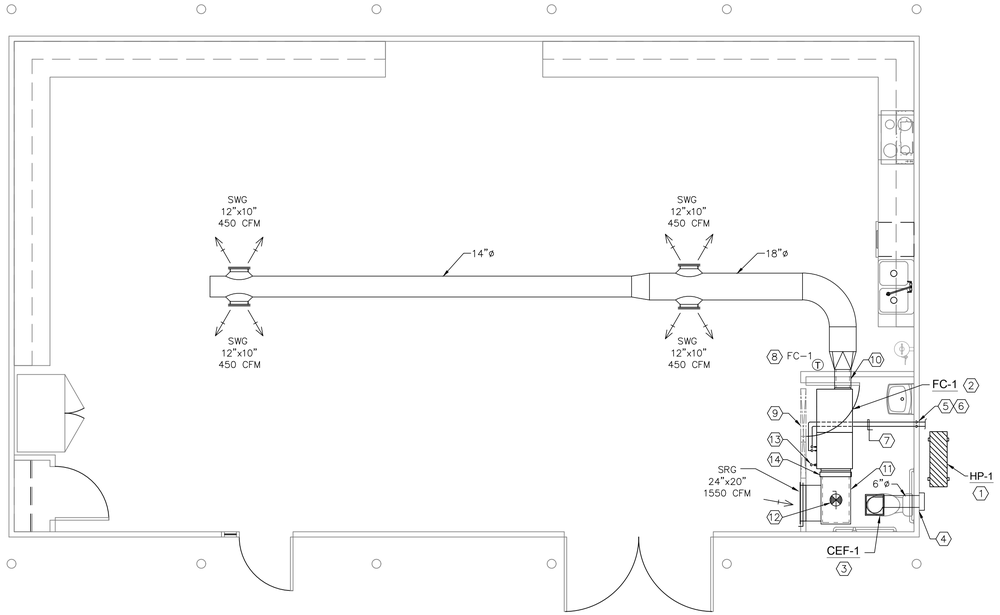
SHEET TITLE:
MECHANICAL CODE COMPLIANCE NOTES

ISSSUE / REVISIONS:

#	DESCRP.	DATE

ISSUE DATE: 02-01-2024

M002



1 M101 HVAC FLOOR PLAN
SCALE: 1/4" = 1'-0"

NORTH

PLAN NOTES

1. OUTDOOR HEAT PUMP UNIT MOUNTED ON GRADE – SEE DETAIL 1/M201.
2. INDOOR FAN COIL UNIT ABOVE CEILING – SEE DETAIL 2/M201.
3. CEILING EXHAUST FAN – SEE DETAIL 3/M201.
4. 6"ø E.A. DUCT THRU WALL WITH WATERPROOF PENETRATION AND WALL CAP.
5. REFRIGERANT PIPING (LIQUID & SUCTION) THRU WALL WITH WATERPROOF PENETRATION TO OUTDOOR UNIT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
6. REFRIGERANT PIPING (LIQUID & SUCTION) ROUTED IN WALL TO ABOVE CEILING.
7. REFRIGERANT PIPING (LIQUID & SUCTION) ROUTED ABOVE CEILING TO INDOOR UNIT CONNECTIONS.
8. WALL MTD. ZONE THERMOSTAT MOUNTED @ 48" (+/–) A.F.F. – COORDINATE LOCATION WITH ARCHITECT & OWNER.
9. MINIMUM 60"x30" WALL ACCESS PANEL – COORDINATE LOCATION WITH EQUIPMENT REQUIREMENTS, ARCHITECT & WALL FRAMING.
10. FULL SIZED LINED SUPPLY AIR PLENUM.
11. FULL SIZED LINED RETURN AIR PLENUM.
12. 8"ø OSA DUCT W/ MVD BALANCED TO 200 CFM UP THRU ROOF TO ROOF CAP OR GOOSENECK.
13. 3/4" CONDENSATE DRAIN RUN TO TAILPIECE AT LAVATORY – COORDINATE WITH PLUMBING CONTRACTOR.
14. FILTER RACK TO ACCEPT 20"x20"x2" PLEATED DISPOSABLE FILTER W/ ACCESS FOR FILTER INSPECTION & REPLACEMENT.

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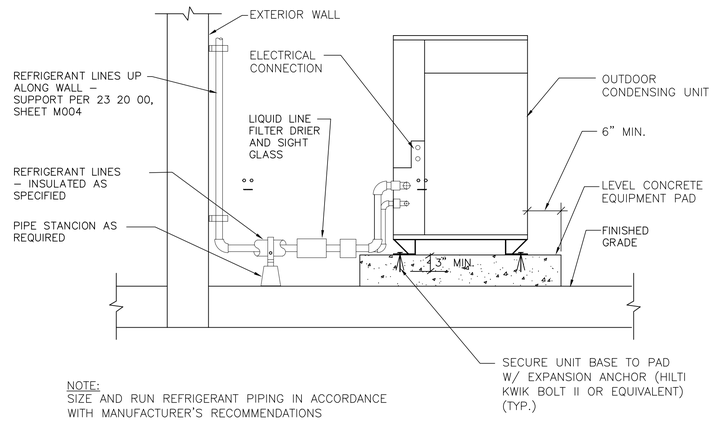
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HVAC FLOOR PLAN

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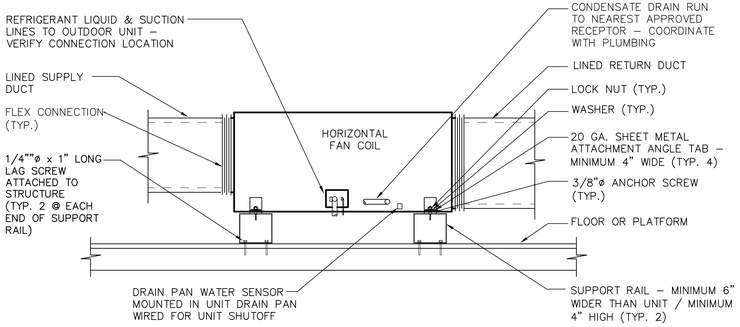
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M101



NOTE:
SIZE AND RUN REFRIGERANT PIPING IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS

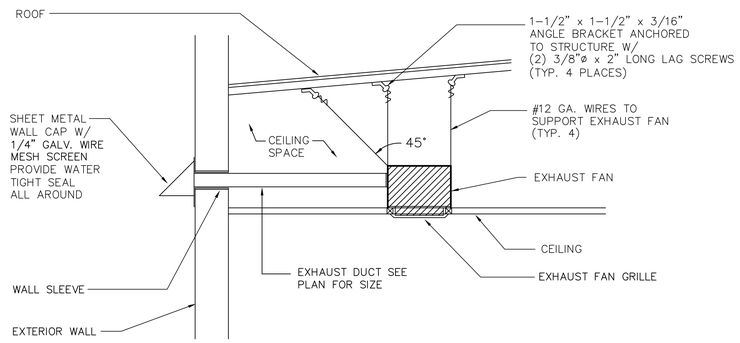
SCALE		GRADE MOUNTED HEAT PUMP UNIT	SCALE	
NONE	4		NONE	1



NOTE:

1. PROVIDE NEOPRENE PADS BENEATH UNIT AT SUPPORT RAIL CORNER POINTS (TYP. 4)
2. UNIT WEIGHT < 400 LBS. – SCHEDULE SHEET M001.

SCALE		PLATFORM MOUNTED FAN COIL UNIT	SCALE	
NONE	5		NONE	2



SCALE		CEILING MOUNTED EXHAUST FAN	SCALE	
NONE	6		NONE	3

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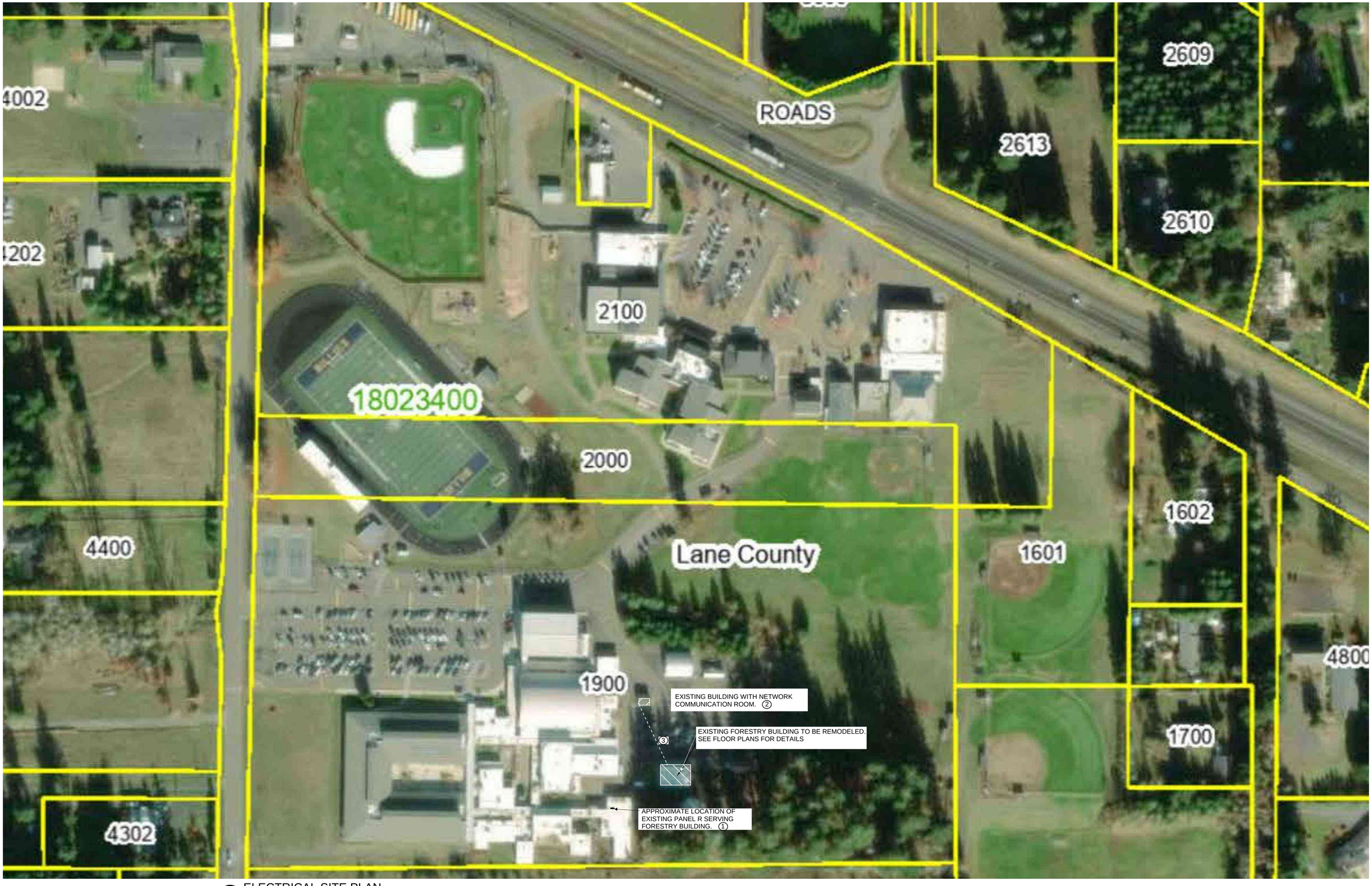
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HVAC DETAILS

ISSSUE / REVISIONS:

#	DESCRP.	DATE

ISSUE DATE: 02-01-2024

M201



ELECTRICAL SITE PLAN

NORTH

SCALE: NONE

PLAN NOTES

1. FORESTRY BUILDING IS CURRENTLY FED AT 480 VOLTS FROM 50/3 CIRCUIT BREAKER IN EXISTING PANEL R. EXISTING SERVICE TO REMAIN.

2. AN EXISITNG NETWORK EQUIPMENT ROOM IS LOCATED IN REMOTE BUILDING. THIS ROOM HAS BEEN USED TO SERVE PORTABLE BUILDINGS IN THE PAST. (1) 4" CONDUIT AND (2) 2" SPARE CONDUITS CONNECT THIS ROOM TO THE CAMPUS NETWORK EQUIPMENT SYSTEM. INSTALL 24" X 24" X 4' PULL BOX ADJACENT TO EXISTING EXTERIOR PULL BOX AND RUN (1) 4" CONDUIT AND (2) 2" CONDUIT TO NEW NETWORK EQUIPMENT RACK IN FORESTRY BUILDING.

3. UNDER AN ALTERNATE BID INSTALL NEW UNDERGROUND COMMUNICATION CONDUIT BETWEEN EXISTING COMMUNICATION ROOM AND FORESTRY BUILDING. UNDER BASE BID CONDUIT WILL BE STUBBED OUT FROM FORESTRY BUILDING TO POINT 5' FROM BUILDING.

ELECTRICAL LEGEND

- DUPLEX RECEPTACLE
- FOURPLEX OUTLET
- GFCI OUTLET
- OUTLET WITH WEATHERPROOF COVER
- SINGLE POLE SWITCH
- DIMMER SWITCH
- DISCONNECT SWITCH
- NETWORK OUTLET BACKBOX
- PANELBOARD
- (E) EXISTING TO REMAIN
- (R) EXISTING TO BE REMOVED
- (RL) EXISTING TO BE RELOCATED
- FIRE ALARM PULL STATION
- FIRE ALARM HORN / STROBE
- JUNCTION BOX
- PENDANT / SURFACE LIGHT FIXTURE
- WALL MOUNTED LIGHT FIXTURE
- NOTE REFERENCE

REGISTERED PROFESSIONAL ENGINEER 12899 OREGON DEC. 21, 1984 JAMES P. KRUMSTICK
EXPIRES 6-30-2025

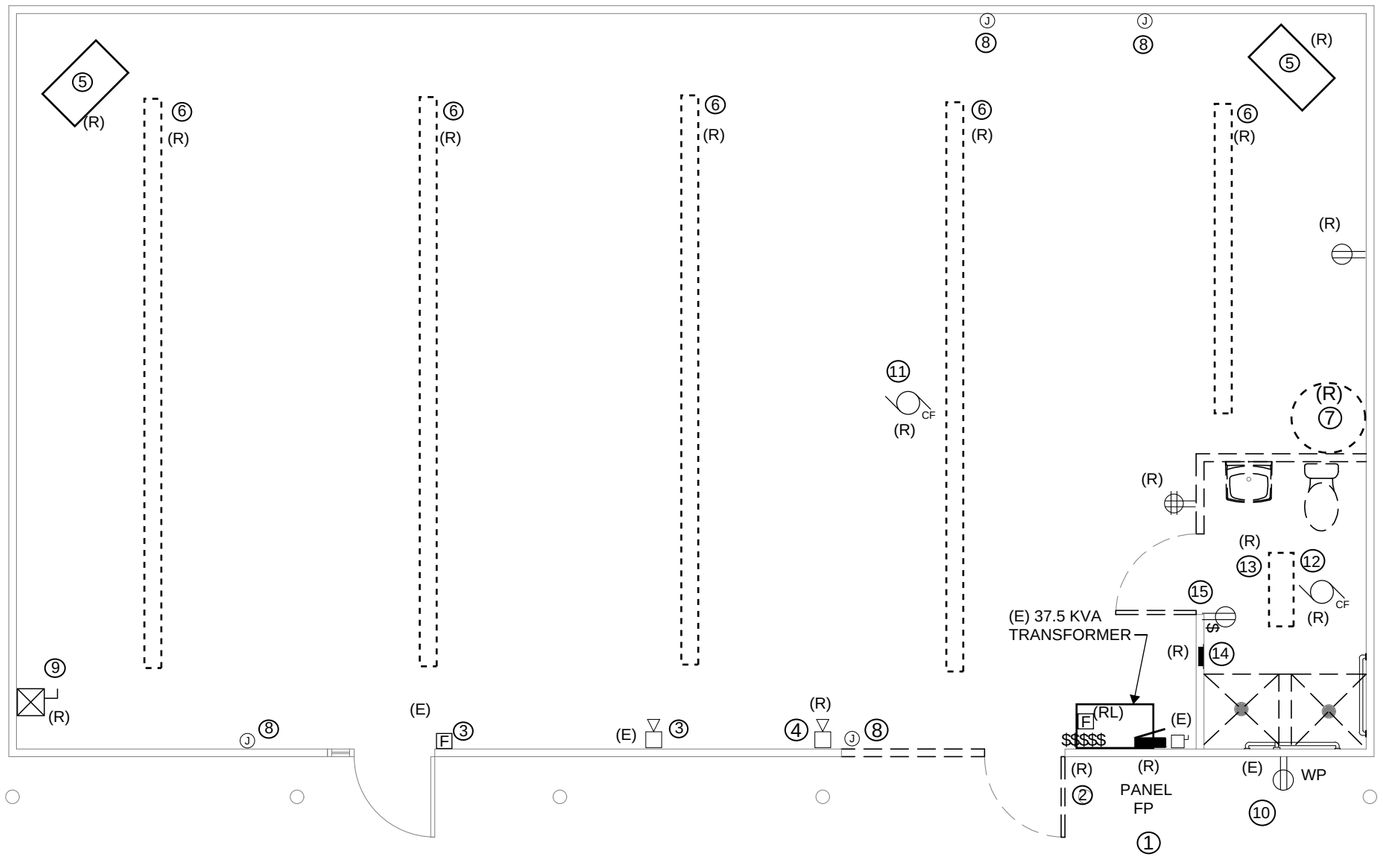
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97455

TITLE: SITE PLAN
JOB#: 1520.05032023
DRAWN BY:
ISSUE DATE:
SCALE:

E1.1



FIRST FLOOR DEMOLITION PLAN

NORTH 1

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

PLAN NOTES

1. REMOVE EXISTING 208Y/ 120 VOLT PANEL AND ASSOCIATED FEEDER FROM DRY TYPE TRANSFORMER EXTEND BRANCH CIRUITS TO NEW PANEL PER PANEL SCHEDULE AND NOTES 10 AND 15.
2. REPLACE (4) EXISTING SINGLE POLE SWITCHES,. WITH DIMMER SWITCHES. REMOVE FIFTH SWITCH. PROVIDE NEW SWITCH PLATE.
3. EXISTING FIRE ALARM PULL STATION AND HORN / STROBE WILL REMAIN IN USE.
4. REMOVE ABANDONED FIRE ALARM HORN PROVIDE NEW BLANK COVER.
5. DISCONNECT EXISTING 10 KW UNIT HEATER AND REMOVE BRANCH CIRCUIT CONDUCTORS AND CONDUIT.
6. REMOVE EXISTING PENDANT MOUNTED FLUORESCENT FIXTURES. REUSE EXISTING BRANCH CIRCUIT WIRING TO FEED NEW LIGHT FIXTURES AS IS FEASIBLE.
7. REMOVE BRANCH CIRCUIT WIRING TO EXISTING WATER HEATER.
8. REMOVE EXISTING JUNCTION BOX AND ANY EXISTING BRANCH CIRCUIT CONDUCTORS.
9. REMOVE EXISTING CONTACTOR AND ASSOCIATED BRANCH CIRCUIT CONDUCTORS.
10. REROUTE EXISTING RECEPTACLE CIRCUIT TO NEW PANEL LOCATION.
11. DISCONNECT EXISITNG EXHAUST FAN AND REMOVE BRANCH CIRCUIT CONDUCTORS.
12. DISCONNECT EXISTING EXHAUST FAN AND RECONNECT NEW
13. REMOVE EXISTING SURFACE MOUNTED LIGHT FIXTURE
14. REMOVE EXISTING ELECTRIC HEATER AND ASSOCIATED BRANCH CIRCUIT CONDUCTORS.
15. REROUTE EXISITNG RECEPTACLE AND LIGHTING BRANCH CIRCUIT CONDUCTORS TO NEW PANEL LOCATION.

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JAMES P. KRUMSICK
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97455

REV:

TITLE: FIRST FLOOR DEMO PLAN

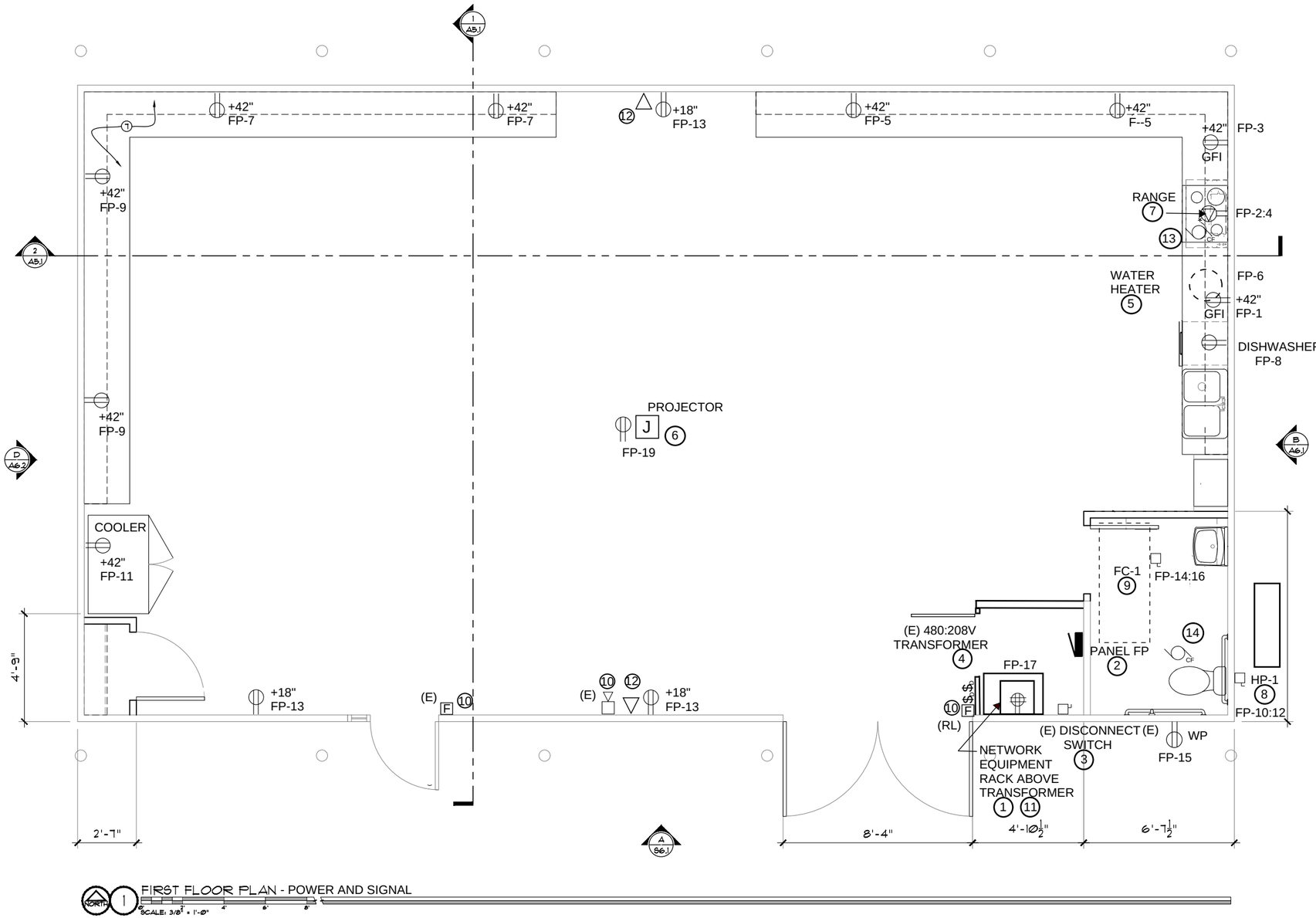
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ISSUE DATE:

SCALE:

E2.1



FIRST FLOOR PLAN - POWER AND SIGNAL

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

PLAN NOTES

1. INSTALL NEW NETWORK EQUIPMENT WALL RACK.. RUN 4" AND (2) " CONDUIT FROM THIS RACK ACROSS CEILING, DOWN WALL AND STUB TO 5' OUTSIDE BUILDING. UNDER ALTERNATE BID EXTEND TO EXISITNG COMMUNICATION ROOM AS DESCRIBED ON SITE PLAN, E1.1.

2 NEW FLUSH MOUNTED 125 MAIN BREAKER PANEL. CONNECT TO SECONDARY OF EXISTING TRANSFORMER PER ONE LINE DIAGRAM.

3. REUSE EXISTING 480 VOLT DISCONNECT SWITCH AND FEEDER TO 480 VOLT: 208Y/120 VOLT TRANSFORMER.

4. CONNECT NEW PANEL TO EXISTING DRY TYPE TRANSFORMER.

5. PROVIDE ELECTRICAL CONNECTION TO NEW WATER HEATER UNDER COUNTER. HOME RUN #10 CONDUCTORS TO PANEL FP.

6. PROVIDE 120 VOLT OUTLET AND SIGNAL JUNCTION BOX AT PROJECTOR LOCATION. VERIFY LOCATION. HOME RUN 1 1/4' CONDUIT TO NETWORK EQUIPMENT RACK.

7. PROVIDE NEMA 50R RECEPTACLE FOR NEW RANGE.

8. PROVIDE DISCONNECT SWITCH AND ELECTRICAL CONNECTION TO HP-1. HOME RUN #10 CONDUCTORS TO PANEL FP.

9. PROVIDE ELECTRICAL CONNECTION TO NEW FAN COIL UNIT LOCATED ON LID OF REST ROOM.

10. REUSE EXISTING FIRE ALARM DEVICE RELOCATE PULL STATION AS INDICATED.

11. STUB (3) 1" CONDUIT FROM EQUIPMENT RACK ABOVE LID OF EQUIPMENT ROOM FOR FUTURE WIRELESS ACCESS POINT AND A/V SPEAKERS.

12. PROVIDE NETWORK FACEPLATE BACKBOX AND HOME RUN 1" CONDUIT TO NETWORK EQUIPMENT RACK.

13. PROVIDE ELECTRICAL CONNECTION TO NEW HOOD FAN. CONNECT TO CIRCUIT FP-22.

14. PROVIDE ELECTRICAL CONNECTION TO NEW EXHAUST FAN CEF-1. CONNECT TO OCCUPANCY SENSOR CONTROLLED LIGHTING CIRCUIT.

REGISTERED PROFESSIONAL ENGINEER 12699 OREGON SEPT. 21, 1984 JAMES P. KRUMSICK
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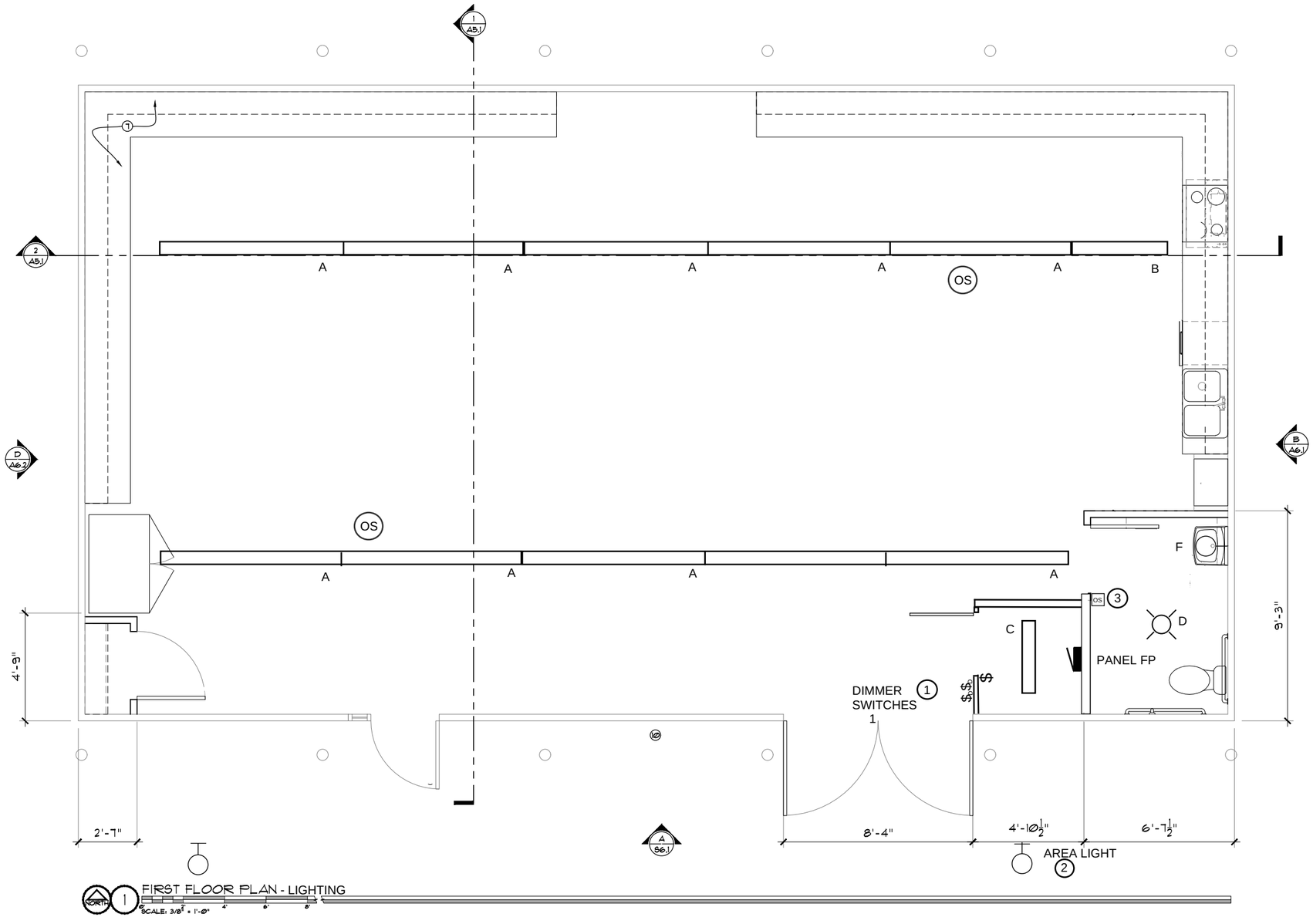
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FORESTRY BUILDING REMODEL
DISTRICT 1 PLEASANT HILL
FORESTRY BUILDING

8445 N ENTERPRISE RD.
PLEASANT HILL, OR
97455

TITLE: POWER AND SIGNAL PLAN
JOB#: 1520.05032023
DRAWN BY:
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ISSUE DATE:
SCALE:

E3.1



PLAN NOTES

1. INSTALL NEW DIMMER SWITCHES FOR OVERHEAD LIGHTING. PROVIDE SEPARATE DIMMER FOR SOUTH ROW AND NORTH ROW. CONNECT TO CIRCUIT FB-18. CONTROL CIRCUIT WITH ROOM OCCUPANCY SENSORS.

2. EXTEND EXISTING OUTDOOR LIGHTING CIRCUIT TO NEW PANEL, CIRCUIT FB-20. MAINTAIN EXISTING CONTROLS.

3. CONTROL EXHAUST FAN AND NEW ROOM LIGHT FIXTURES WITH OCCUPANCY SENSOR.

REGISTERED PROFESSIONAL ENGINEER
OREGON
SEPT. 21, 1984
JAMES P. KRUMSICK
12699

EXPIRES 6-30-2025

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PLEASANT HILL, OR
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TITLE: LIGHTING PLAN

JOB#: 1520.05032023

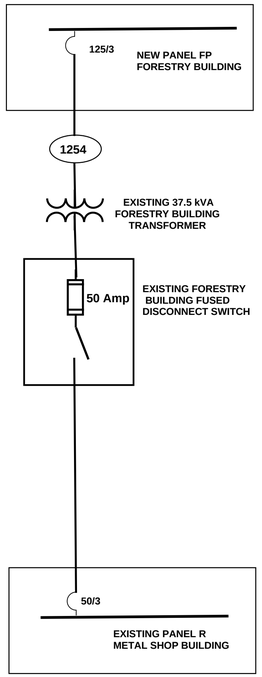
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E4.1



ONE LINE DIAGRAM

LOAD SUMMARY

EXISTING CONNTECTED LOAD:

LIGHTING:	5 kVA
HEATING:	25 kVA
RECEPTACLES:	.9 kVA
SUBTOTAL:	30.9 kVA

REVISED CONNTECTED LOAD:

LIGHTING:	1.2 kVA
MECHANICAL:	7.1 kVA
KITCHEN:	16.1 kVA
RECEPTACLES	4.8 kVA
SUBTOTAL:	29.2 kVA
	81 Amps

EXISTING 37.5 KVA TRANSFORMER
EXISTING 50 AMP 480 VOLT FEEDER
REVISED CONNECTED LOAD ON FEEDER: 35 AMPS

FEEDER SCHEDULE

Designation	Description	Conduit	Wire	Ground	Notes
125A	125 Amp, 208V 3 Phase 4 Wire	1 1/4"	4#1 Copper	#6	

EQUIPMENT SCHEDULE

TAG	Description	VOLT RATING	MCA	Circuit Breaker	Branch Circuit	Circuit Assignment
HP-1	Heat Pump Outdoor Unit	208/1	29.1	30/2	1/2"C, 2#12,, #12G	As Indicated
FC-1	Heat Pump Indoor Unit	208/1	8	20/2	1/2"C, 2#12,, #12G	As Indicated
CEF1	22W Ceiling Exhaust Fan	120	0.02	20/1	1/2"C, 2#12, #12G	As Indicated
WH-1	2.5 kW Electric Water Heater	120	26	30/1	3/4"C, 2#10	As Indicated
Cooler	Heat Pump Outdoor Unit	120	1/3 HP	20/1	1/2"C, 2#12,, #12G	As Indicated
Range	Electric Range	208/1	40	40/2	3/4"C,3#8,, #10G	As Indicated
Dishwasher	Electric	120	15	20/1	1/2"C, 2#12,, #12G	As Indicated

PANEL SCHEDULE

PANEL: FP
VOLTS: 120/208
LOCATION: 1st Floor Electrical Room
MOUNTING: Recessed
NOTES:

TYPE: Loadcenter **AMPS:** 125
PHASE: 3 **WIRE:** 4
MAIN: Main Breaker

DATE: November 22, 2023
PROJECT: Pleasant Hill Forestry

LOAD CLASS	Conn. VA	Demand Factor	Demand Load VA
LIGHTING	1200	125%	1500
OUTLETS	4780	******	7390
MECHANICAL LOADS	7140		7140
KITCHEN LOADS	16100	100%	16100

	Connected	Demand****
TOTAL VOLT-AMPS	29,220	32,130
MAXIMUM PHASE AMPS	81.2	89.3

BREAKER A	BREAKER P	DESCRIPTION	WATTS	CIR. NO.	PHASE	CIR. NO.	WATTS	DESCRIPTION	BREAKER P	BREAKER A
20	1	Countertop Receptacle	1500	1	A	2	3600	Range	2	40
20	1	Countertop Receptacle	1500	3	B	4	3600			
20	1	Counter Receptacle	360	5	C	6	2500	Water Heater	1	30
20	1	Counter Receptacle	360	7	A	8	1200	Dishwasher	1	20
20	1	Counter Receptacle	360	9	B	10	2800	HP-1	2	30
20	1	Cooler Receptacle	1000	11	C	12	2800			
20	1	Classrooom Receptacles	540	13	A	14	720	Fan Coil Unit	2	20
20	1	Utility Receptacle	360	15	B	16	720			
20	1	Receptacles - Network Rack	360	17	C	18	1000	Indoor Lighting	1	20
20	1	Projector Receptacle	180	19	A	20	200	Outdoor Lighting	1	20
20	1	Spare		21	B	22	100	Range Hood	1	20
20	1	Spare		23	C	24		Spare	1	20
20	1	Spare		25	A	26		Spare	1	20
20	1	Spare		27	B	28		Spare	1	20
		Space		29	C	30		Space		
		Space		31	A	32		Space		
		Space		33	B	34		Space		
		Space		35	C	36		Space		
		Space		37	A	38		Space		
		Space		39	B	40		Space		
		Space		41	C	42		Space		

PHASE TOTALS		A	B	C
	Connected VA	9400	10520	9300
	Connected Amps	78.3	87.7	77.5

***** 10kVA at 100%, remainder at 40%
** Demand Load per NEC 220.56

LIGHT FIXTURE SCHEDULE

FIXTURE TYPE	Description	Manufacturer Catalog Number	VOLT RATING	Light Source	Mounting	Notes
A	Pendant Mounted 8 foot - LED Strip with Lens Diffuser	Lithonia ZL1F L96 SMR 9000LM MDD 120 35K 90CRI WH	120	77 Watt , 9000 Lumen LED	Cable Hung	
B	Surface Mounted 4 foot - LED Strip with Lens Diffuser	Lithonia ZL1F L48 SMR 4500LM MDD 120 35K 90CRI WH	120	39Watt , 4500 Lumen LED	Cable Hung	
C	Surface Mounted 4 foot LED Strip	Lithonia CLX L48 3000LM 120 35K 80CRI WH	120	20 Watt , 1800 Lumen LED	Surface Mounted	
D	LED Surface Disk	Lithonia FMHDL 14 Z08 30	120	30 Watt LED	Flush Mount	
F	LED Surface Wall Mount	Lithonia FMV TRL 24 30K 90CRI BN	120	18 Watt LED	Above Mirror	

Pleasant Hill HS Forestry Building - Lighting Control Matrix

Area	Type of Controls	Control Functions	Product Basis For Design
Classroom	0-10 VDC Dimming	Two Dimming Zones	Wallbox Dimmers
Rest Rooms	Occupancy Sensor	Switch on / off with Wall Entry / Occupancy Sensor	Line voltate controls
New Electrical / Data Rooms	Manual Switch	Switch on / off	Line voltage controls
Exterior Security lighting	Photocell	Reuse Existing Controls	

REGISTERED PROFESSIONAL ENGINEER 12699 OREGON NOV. 21, 1997 JAMES P. KRUMSICK
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