

OSU - LITTLE KITS

112' x 64' MODULAR CHILDCARE



GENERAL NOTES

- THE TERM IBC SHALL APPLY TO THE CURRENT EDITION OF THE INTERNATIONAL BUILDING CODE (IBC) AS AMENDED BY THE STATES OF OREGON AND WASHINGTON. FOR PROJECTS IN ALL OTHER STATES IT SHALL APPLY TO THE CURRENT EDITION OF THE UBC OR IBC AS ADOPTED BY THAT STATE.
- ALL CONTROLS AND HARDWARE SHALL BE ACCESSIBLE TO PERSONS WITH DISABILITIES.
- WHERE REQUIRED, PORTABLE FIRE EXTINGUISHERS SHALL BE INSTALLED IN ACCORDANCE WITH OFC/IFC SECTION 906
- PER OAR 918-674-0015, REQUIRED TOILET FACILITIES (INCLUDING DRINKING FOUNTAINS) MAY BE LOCATED IN AN ADJACENT FACILITY PER IBC CHAPTER 29, SECTION 2902.3.3 AND THE LOCAL JURISDICTION BUILDING OFFICIAL SHALL VERIFY THAT ADEQUATE FACILITIES ARE AVAILABLE BASED ON THE OVERALL OCCUPANT LOAD OF THE ENTIRE COMPLEX.
- IF APPLICABLE, FIRE ALARM SYSTEM TO BE FIELD INSTALLED (BY OTHERS) PER OSSC/IBC SECTION 907.2.3, GROUP E. ALARM SYSTEM DESIGN AND INSTALLATION OUTSIDE OF MANUFACTURER'S SCOPE OF WORK PER CONTRACT - ALARM SYSTEM DESIGN AND INSTALLATION TO BE REVIEWED, PERMITTED AND INSPECTED BY LOCAL JURISDICTION PRIOR TO ISSUING CERTIFICATE OF OCCUPANCY. SEE ELECTRICAL PLAN FOR DEVICE LOCATIONS.
- IF APPLICABLE, FIRE SAFETY AND EVACUATION PLANS SHALL BE PROVIDED BY OWNER PRIOR TO CERTIFICATE OF OCCUPANCY PER OFC/IFC SECTION 403
- AN ACCESSIBLE ROUTE SHALL BE PROVIDED TO THE BUILDING AREA AS REQUIRED IN OSSC/IBC SECTION 1104
- WHERE FLOOR LIVE LOAD EXCEEDS 50 PSF, A DURABLE SIGN SHALL BE CONSPICUOUSLY POSTED BY THE OWNER IN THE PART OF THE BUILDING WHERE THIS INCREASED FLOOR LIVE LOAD OCCURS PER OSSC/IBC SECTION 106.1
- SPECIAL INSPECTIONS TO BE PROVIDED BY E.O.R. (U.N.O.)

TYPICAL SYMBOLS LEGEND

- NORTH ARROW
- ELEVATION BUBBLE
- SECTION BUBBLE
- DETAIL BUBBLE
- DETAIL CALLOUT
- GRID BUBBLE
- ELEVATION LEVEL
- MODULE TAG
- WALL TAG
- DOOR TAG
- WINDOW TAG
- REVISION TAG
- CENTERLINE
- KEYNOTE

SHEET INDEX			
SHT. NO.	SHEET NAME	Current Rev.	Rev Issued By
A 0.0	COVER SHEET		
A 0.1	FIRE & LIFE SAFETY PLAN		
A 1.0	FLOOR PLAN		
A 1.1	ENLARGED PLANS		
A 1.2	REFLECTED CEILING PLAN		
A 1.3	SOLAR ROOF PLAN		
A 2.0	EXTERIOR ELEVATIONS		
A 3.0	FINISH NOTES & SCHEDULES		
A 4.0	INTERIOR ELEVATIONS		
A 5.0	DETAILS		
S 1.0	FOUNDATION PLAN & NOTES		
S 1.1	FOUNDATION DETAILS		
S 2.0	FLOOR FRAMING PLAN		
S 2.1	FLOOR FRAMING PLAN & DETAILS		
S 2.2	SUB-ROOF FRAMING PLAN		
S 2.3	ROOF FRAMING PLAN		
S 2.4	PORCH FRAMING PLAN & DETAILS		
S 3.0	BUILDING SECTIONS		
S 3.1	BUILDING SECTIONS		
S 4.0	DETAILS		
E 0.1	ELEC. PANELS & LOAD CALCS.		
E 1.0	ELECTRICAL PLAN		
E 2.0	LIGHTING PLAN		
M 1.0	HVAC PLAN & SCHEDULES		
M 1.1	ATTIC HVAC PLAN		
P 1.0	PLUMBING PLAN & NOTES		
P 1.1	PLUMBINGS SCHEMATICS		

DESIGN PROFESSIONAL

MICHAEL C. LEWIS P.E.
 MODERN BUILDING SYSTEMS, LLC
 9493 PORTER RD. SE AUMSVILLE, OR 97325
 503-749-4949
 Michael.Lewis@willscot.com

ENERGY CODE NOTES

- OREGON ENERGY COMPLIANCE IS PROVIDED PER OEESC AND ASHRAE 4.2.1.1(a)
- ALL BUILDING THERMAL ENVELOPE INSULATION SHALL BE MARKED IN ACCORDANCE WITH ASHRAE 5.8.1.1 AND DOCUMENTED PER ASHRAE 5.8.1.11
- WALL AND FLOOR INSULATION SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. FLOOR CAVITY INSULATION SHALL REMAIN IN CONTACT WITH UNDERSIDE OF FLOOR SHEATHING PER ASHRAE 5.8.1.5
- PENETRATIONS OF THE AIR BARRIER SHALL BE CAULKED, GASKETED OR SEALED PER ASHRAE 5.4.3.1.2
- OREGON AIR BARRIER COMPLIANCE: ALL AIR BARRIER MATERIALS SHALL BE ASTM E2178 RATED AS LISTED IN ASHRAE TABLE 5.8.3.1 FOOTNOTE (a) ITEMS 1-13
- ALL FENESTRATION ASSEMBLIES SHALL BE LABELED BY THE MANUFACTURER PER ASHRAE 5.8.2.2
- AIR ECONOMIZER SHALL BE CAPABLE OF PROVIDING 100% OUTSIDE AIR PER ASHRAE 6.5.1.1.1
- ECONOMIZER HIGH-LIMIT SHUTOFF CONTROL IS ELECTRONIC ENTHALPY PER MANUFACTURER'S SPECIFICATIONS, ASHRAE 6.5.1.1.3
- MECHANICAL VENTILATION SYSTEM SHALL HAVE THE CAPABILITY TO REDUCE THE OUTSIDE AIR SUPPLY TO THE MINIMUM REQUIRED PER ASHRAE 6.5.3.2.1 AND 6.5.3.7(a)
- OUTSIDE AIR AND EXHAUST AIR DAMPERS SHALL BE RATED PER ASHRAE TABLE 6.4.3.4.3 TO INCLUDE CLASS I MOTORIZED DAMPERS WITH MAXIMUM AIR LEAKAGE RATE OF 10 CFM/FT² (GRAVITY BACK-DRAFT DAMPER MAY BE USED FOR RESTROOM EXHAUST FANS WHEN AIR FLOW IS LESS THAN 300 CFM)
- COMPLIANCE WITH ASHRAE 5.4.3.3 VESTIBULES TO BE PER OEESC E301.2(b)

SYSTEM COMMISSIONING NOTES

- PRIOR TO CONSTRUCTION, A COMMISSIONING PLAN SHALL BE DEVELOPED TO INSURE PROPER INSTALLATION AND TESTING OF BUILDING SYSTEMS AS FOLLOWS:
 - A.) MECHANICAL SYSTEM PER ASHRAE 6.9.2 NOT REQUIRED (EXCEPTION #2, PER ASHRAE 4.2.5.2)
 - SERVICE WATER HEATING PER ASHRAE 7.9.2 NOT REQUIRED (EXCEPTION #2, PER ASHRAE 4.2.5.2)
 - LIGHTING AND CONTROLS PER ASHRAE 9.9.2 NOT REQUIRED (EXCEPTION #2, PER ASHRAE 4.2.5.2)
 - OTHER EQUIPMENT CONTROLS PER ASHRAE 10.9.2 NOT REQUIRED (EXCEPTION #2, PER ASHRAE 4.2.5.2)

SOLAR READINESS NOTES - OREGON

- THIS STRUCTURE IS DESIGNED FOR COMPLIANCE WITH THE REQUIREMENT TO MEET OSSC SECTION 3111 SOLAR ENERGY SYSTEMS.

(a.) SOLAR ENERGY SYSTEM PER OSSC 3111.3 AND 3111.3.1 (ITEM #1)

ABBREVIATIONS

A.B.	ANCHOR BOLT	FD	FLOOR DRAIN	MAX.	MAXIMUM	SC	SOLID CORE
ADJ.	ADJUSTABLE	FDN	FOUNDATION	MDO	MEDIUM DENSITY OVERLAY	SF	STOREFRONT
A.F.F.	ABOVE FINISH FLOOR	F.E.	FIRE EXTINGUISHER	MECH.	MECHANICAL	SH	SINGLE HUNG
AL	ALUMINUM	F.E.C.	FIRE EXTINGUISHER CABINET	MFR.	MANUFACTURER	SHT.	SHEET
BA	BRONZE ANODIZED	FCL	FIBERGLASS	MIN.	MINIMUM	SHTG.	SHEATHING
BD	BOARD	FLR	FLOOR	MISC.	MISCELLANEOUS	SIM.	SIMILAR
BLK.	BLOCK	FIN.	FINISH	M.L.	MARRIAGE LINE	SIMP.	SIMPSON
B.O.	BOTTOM OF	F.O.FIN.	FACE OF FINISH	MOD	MODULE	SQ.	SQUARE
BOT.	BOTTOM	F.O.FRM	FACE OF FRAMING	MPL	MAPLE	S.S.	STAINLESS STEEL
BRCH	BIRCH	FRT	FIRE-RESISTANT TREATED	MTL	METAL	STN.	STAIN
BY	BOTTOM VENT	FS	FLOOR SINK	MV	MIXING VALVE	STRUCT.	STRUCTURAL
CDR	CEDAR	FTAO	FORCE TRANSFER AROUND OPENINGS	N.I.C.	NOT IN CONTRACT	TIM.	TIMELY
CFCI	CONTRACTOR FURNISHED	GA.	GAUGE	NOM.	NOMINAL	TMP	TEMPERED SAFETY GLAZING
CJ	CONTRACTOR INSTALLED	GALV.	GALVANIZED	NRW	NARROW (LITE)	T.O.	TOP OF
CL	CENTERLINE	G.C.C.	GENERAL CONTRACTOR COORDINATE	NTS	NOT TO SCALE	TTP	TAPE, TEXTURE & PAINT
CLG	CEILING	GLB	GLULAM BEAM	ONS	OBSCURE	TYP.	TYPICAL
CLR	CLEAR	GYP.	GYP-SUM	O.C.	ON CENTER	U.N.O.	UNLESS NOTED OTHERWISE
CMU	CONCRETE MASONRY UNIT	HB	HOSE BIB	OCFI	OWNER FURNISHED CONTRACTOR INSTALLED	UR	URINAL
C.O.	CLEAN OUT	HC	HOLLOW CORE	OFOI	OWNER FURNISHED OWNER INSTALLED	VCT	VINYL COMPOSITION TILE
CONC.	CONCRETE	HF	HEM FIR	OPP.	OPPOSITE	V.C.	VINYL COATED
CONT.	CONTINUOUS	HM	HOLLOW METAL	OSA	OUTSIDE AIR	VVS	VINYL WRAP SURROUND
CPT	CARPET	HSS	HOLLOW STRUCTURAL SECTION	O.S.B.	ORIENTED STRAND BOARD	W/	WITH
DBL	DOUBLE	INFO.	INFORMATION	OVHNG	OVERHANG	WC	WATER CLOSET
DF	DRINKING FOUNTAIN	INSUL.	INSULATION	PF	PUNCH & DIMPLE	WD.	WOOD
DIA.	DIAMETER	INT.	INTERIOR	PNT	PAINT	WH	WATER HEATER
DIM.	DIMENSION	KD	KNOCK DOWN	PLAM	PLASTIC LAMINATE		
DS	DOWNSPOUT	L	LONG	PLCS	PLACES		
DTL	DETAIL	LAV	LAVATORY	PLYWD	PLYWOOD		
DW	DISHWASHER	LH	LEFT HAND	PNT	PAINT		
EA.	EACH	LHOS	LEFT HAND OUT SWING	P.T.	PRESSURE TREATED		
ELEC.	ELECTRICAL	LVL	LAMINATED VENEER LUMBER	REFRIG.	REFRIGERATOR		
ELEV.	ELEVATIONS			REQ'D	REQUIRED		
EQUIP.	EQUIPMENT			RH	RIGHT HAND		
EXIST.	EXISTING			RHOS	RIGHT HAND OUT SWING		
EXT.	EXTERIOR			R.O.	ROUGH OPENING		
E.W.	EACH WAY						

SANITARY PLUMBING WARNING & DISCLAIMER:
 Client has not provided THE NEEDED SPECIFIC SITE CIVIL UTILITIES information for existing sanitary sewer line hookup location, invert elevation, etc. Therefore, Modern shall not be responsible for additional costs and time delays relating to the connection of building sanitary lines to existing sanitary lines. Additional costs and time delays may be incurred by client IN REGARDS TO DESIGN, EXCAVATION, FOUNDATION, PLUMBING AS WELL AS OTHER ITEMS.

PRELIMINARY
 NOT FOR
 SUBMITTAL

REV.	DESCRIPTION	DATE	BY

REUSE OF DOCUMENTS THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN ARE THE PROPERTY OF MODERN BUILDING SYSTEMS, LLC AND ARE NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER USE OR PROJECT WITHOUT WRITTEN AUTHORIZATION.

MODERN BUILDING SYSTEMS, LLC
 TELEPHONE: (503) 766-8888 FAX: (503) 766-8890
 P.O. BOX 110, 9493 PORTER ROAD, AUMSVILLE, OR 97325
 CHECK OUT OUR WEB PAGE: www.modernbuilding.com

SHEET **COVER SHEET**

PROJ. 112' x 64' MODULAR CHILDCARE

OSU - LITTLE KITS

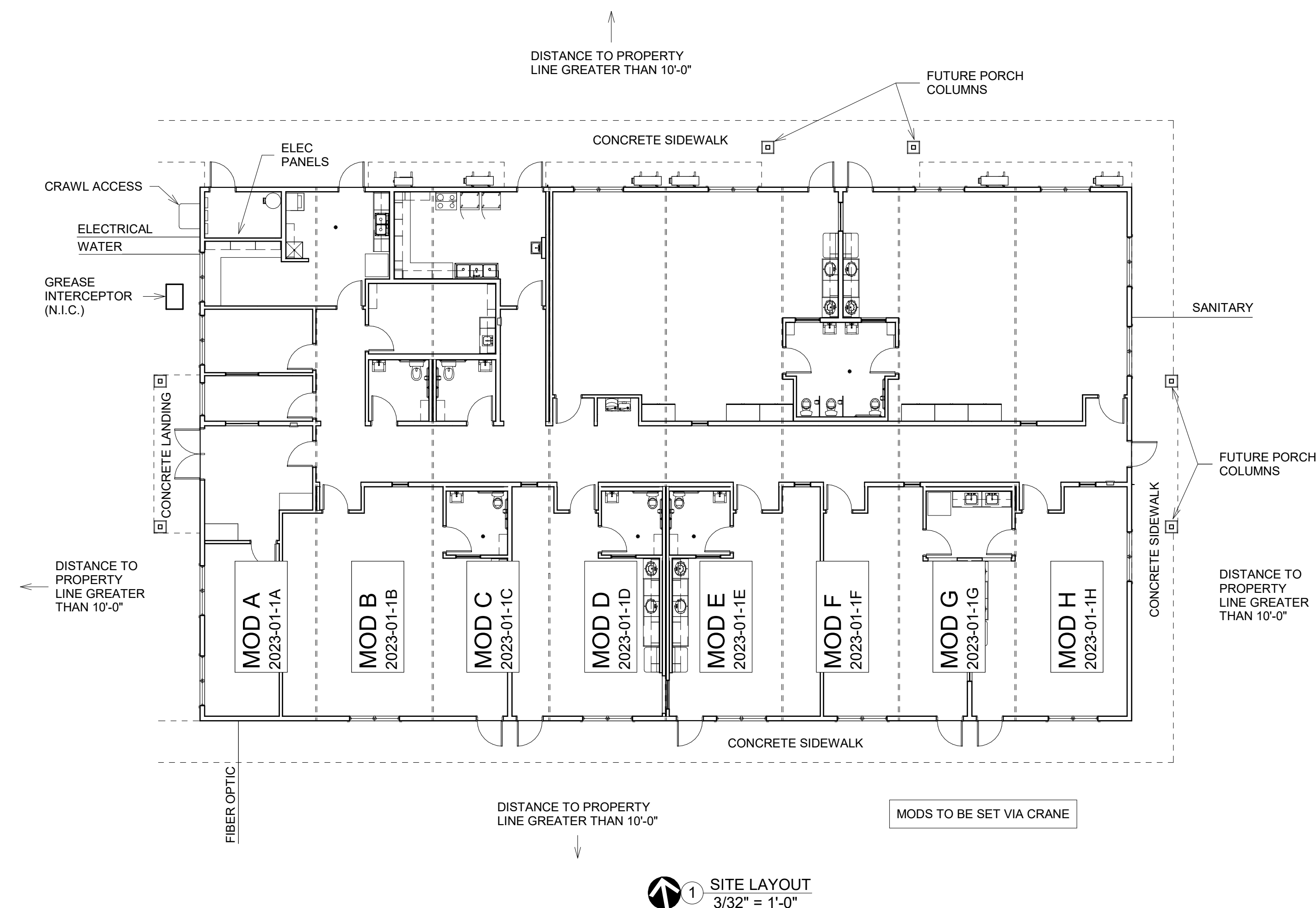
ADDRESS 1500 SW CHANDLER AVENUE BEND, OR 97702

DRW BJ

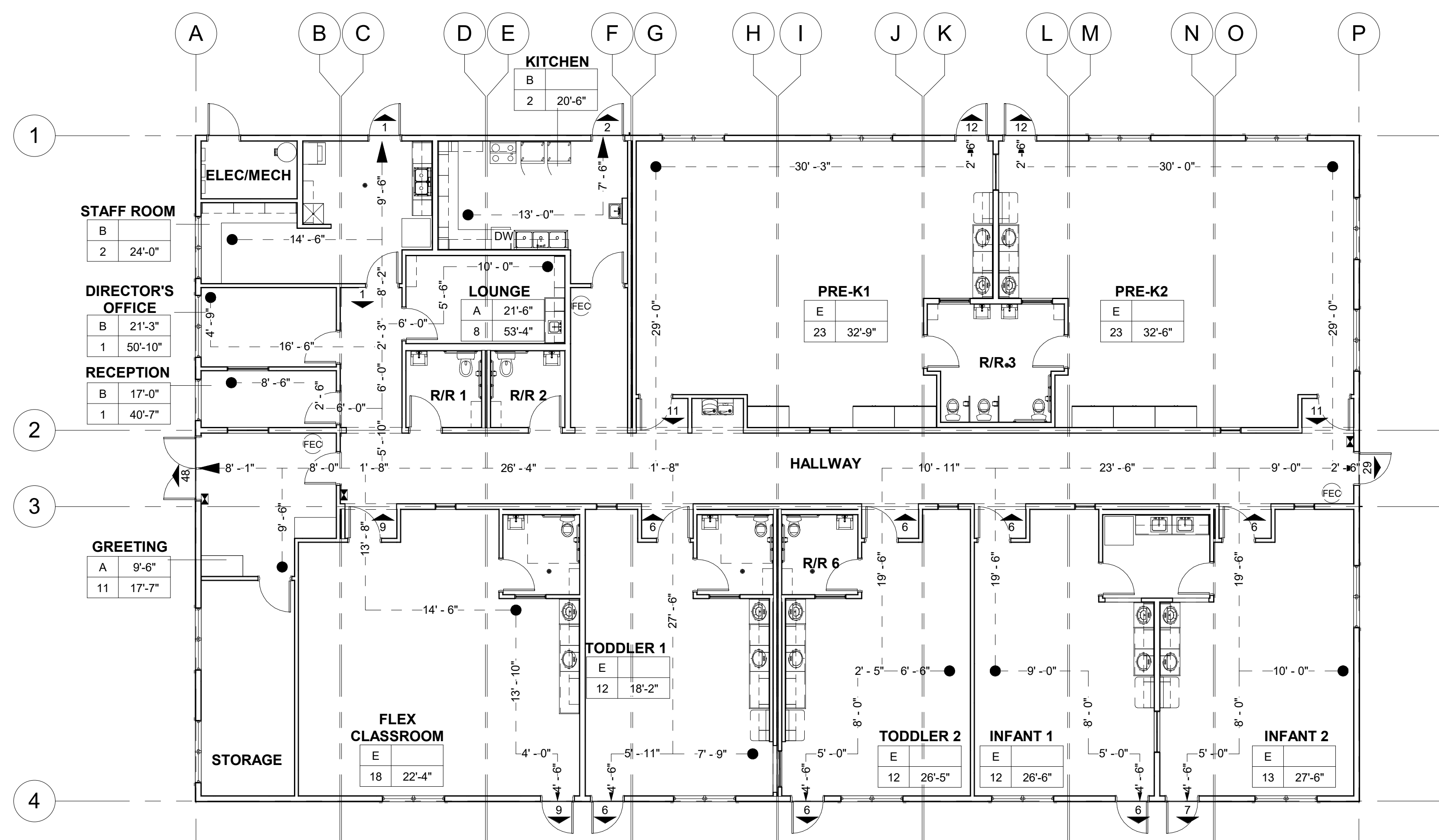
JOB# 2023-LB-01

SHEET # **A 0.0**

DATE 7/10/24 PRELIM



1 SITE LAYOUT
 3/32" = 1'-0"



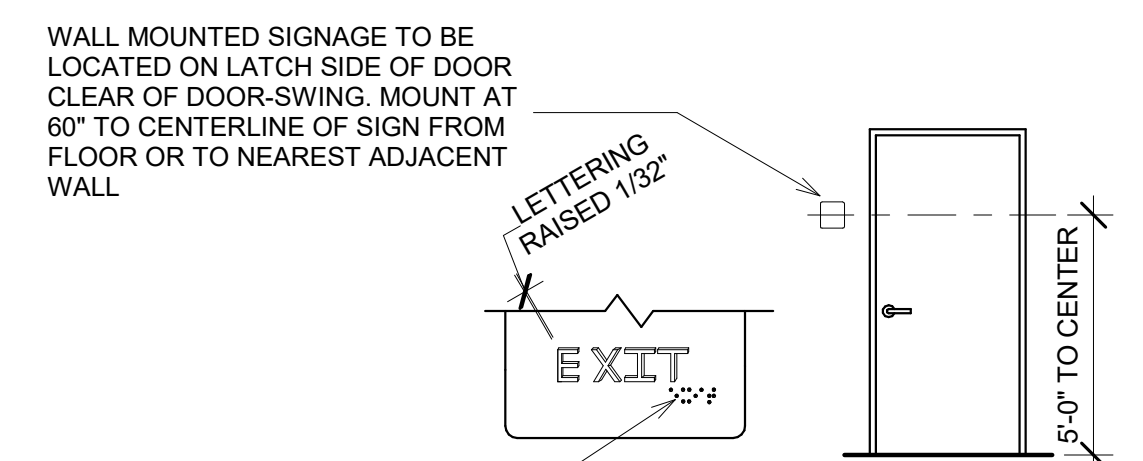
1 FIRE & LIFE SAFETY PLAN
1/8" = 1'-0"

DESIGN CRITERIA	
GENERAL:	
CONSTRUCTION TYPE	VB (NON-SPRINKLERED)
OCCUPANCY GROUP (IBC CH. 3)	E (DAYCARE/6 WEEKS - 5 YEARS)
BUILDING AREA / STORIES (IBC TABLE 504.4, 506.2)	ALLOWABLE: 9,500 SQ. FT. / (1) STORY, ACTUAL: 7,158 SQ. FT. / (1) STORY
DISTANCE TO PROPERTY LINE OR ASSUMED PROPERTY LINE	NORTH: 10' MIN. SOUTH: 10' MIN. EAST: 10' MIN. WEST: 10' MIN.
EXTERIOR WALL RATING (IBC TABLE 602)	FIRE SEPARATION DISTANCE 10' OR GREATER, NO RATING REQUIRED
OCCUPANCY LOAD (IBC TABLE 1004.5)	138 OCCUPANTS, SEE SUMMARY ON SHEET A 0.1
FIRE RESISTIVE RATING REQUIREMENTS	NONE REQUIRED
ATTIC DRAFTSTOPPING (IBC SEC. 718.4)	REQUIRED: SEE SUB-ROOF AND ROOF FRAMING PLAN FOR LOCATIONS
NUMBER OF EXITS (IBC SEC. 1006)	REQUIRED: (2), PROVIDED: (9)
COMMON PATH OF EGRESS (IBC TABLE 1006.2.1)	ALLOWABLE: 75 FEET, ACTUAL: 21' - 6" MAX.
TWO EXITS OR EXIT ACCESS DOORWAYS (IBC SEC. 1007)	ALLOWABLE EXIT SEPARATION DISTANCE NOT LESS THAN 1/2 DIAGONAL DISTANCE (IBC 1007.1.1), DIAGONAL DISTANCE = 124'-4" / 2 = 62'-2", ACTUAL EXIT SEPARATION DISTANCE = 111'-10"
EXIT ACCESS TRAVEL DISTANCE (IBC TABLE 1006.3.4(2), 1017.2)	ALLOWABLE: 200 FEET, ACTUAL: 53' - 4" MAX.
CORRIDOR CONSTRUCTION (IBC TABLE 1020.2)	FIRE RATING NOT REQUIRED, IBC SEC. 1020.2 EXCEPTION #1
CORRIDOR WIDTH (IBC TABLE 1020.3)	MINIMUM: 72", CORRIDOR WIDTH = 81"
ELECTRICAL:	
ELECTRICAL SERVICE LOAD	(3) 200A / 120/240V / 1 PH. 106.3 kVA
MECHANICAL:	
VENTILATION OCCUPANCY LOAD (IMC TABLE 403.3.1.1)	130 OCCUPANTS, SEE SUMMARY ON SHEET M 1.0
CLIMATE ZONE	5B
HEATING	SPV/HP
AIR-CONDITIONING	YES
DOMESTIC COOKING EXHAUST (IMC SEC. 505, TABLE 507.1.2)	RESIDENTIAL HOOD - BOILING, STEAMING AND WARMING PRECOOKED FOOD
PLUMBING:	
PLUMBING OCCUPANCY LOAD (IBC TABLE 1004.5, 2902.1)	138 (69 MALE / 69 FEMALE)
PLUMBING FIXTURES REQUIRED (IBC TABLE 2902.1)	WC: (3); LAV: (3); DF: (1)
PLUMBING FIXTURES PROVIDED	WC: (8); LAV: (6); DF: (1)
QUANTITY OF PLUMBING FIXTURES	(50)
STRUCTURAL:	
REQUIRED SPECIAL INSPECTIONS	SUSPENDED CEILING W/ BERG CLIPS
ROOF SNOW LOAD	25 PSF (+5 PSF SOLAR)
FLOOR LIVE LOAD	50 PSF, 100 PSF
WIND LOAD	Lambda = 1.00 Vult = 140 MPH (Vasd = 108 MPH) 3 SECOND GUST - EXP. B
SEISMIC	BEARING WALL SYSTEM: S _s = 1.500, F _a = 1.200 S _{us} = 1.00, (PER ASCE 7-16 SEC. 12.8.1.3) RISK CATEGORY II I _e = 1.0, SEISMIC DESIGN CATEGORY D, SITE CLASS D
THIS SET OF PLANS PREPARED AND SUBMITTED FOR APPROVAL UNDER THE FOLLOWING CODES:	
BUILDING	2022 OSSC
MECHANICAL	2022 OMSC
FIRE	2022 OFC
PLUMBING	2023 OPSC
ENERGY	2021 OESC
ELECTRICAL	2023 OEESC/ASHRAE 90.1-2019
ACCESSIBILITY	ICC A117.1-2017

OCCUPANT LOAD SCHEDULE				
Name	Function of Space	Area	Load Factor	Occupant Load
DIRECTOR'S OFFICE	BUSINESS	105 SF	150	1
FLEX CLASSROOM	EDUCATIONAL	618 SF	35	18
GREETING	ASSEMBLY (UNCONCENTRATED)	165 SF	15	11
INFANT 1	EDUCATIONAL	399 SF	35	12
INFANT 2	EDUCATIONAL	434 SF	35	13
KITCHEN	KITCHEN	219 SF	200	2
LOUNGE	ASSEMBLY (UNCONCENTRATED)	114 SF	15	8
PRE-K1	EDUCATIONAL	789 SF	35	23
PRE-K2	EDUCATIONAL	802 SF	35	23
RECEPTION	BUSINESS	78 SF	150	1
STAFF ROOM	BUSINESS	163 SF	150	2
STORAGE	STORAGE	192 SF	0	
TODDLER 1	EDUCATIONAL	386 SF	35	12
TODDLER 2	EDUCATIONAL	387 SF	35	12
Total				138

FIRE AND LIFE SAFETY SYMBOLS LEGEND

- OCC. GROUP → X X'-X" ← COMMON PATH DISTANCE
- OCC. LOAD → X X'-X" ← EXIT ACCESS DISTANCE
- 10 EXIT LOAD
- COMMON PATH OF EGRESS
- EGRESS START POINT
- ▲ EGRESS DIRECTION
- FE FIRE EXTINGUISHER (BY MODERN SUBCONTRACTOR)
- EXIT SIGNAGE, SEE DETAIL



TYP. EXIT SIGNAGE
NO SCALE

FIRE AND LIFE SAFETY PLAN NOTES

- FIRE DEPARTMENT KEY BOX AND LOCATION (BY OTHERS)
- FIRE EXTINGUISHERS TO BE 5LB 2A, 10BC
- BUILDING ADDRESS IDENTIFICATION AND LOCATION TO BE PROVIDED AND MAINTAINED BY OWNER

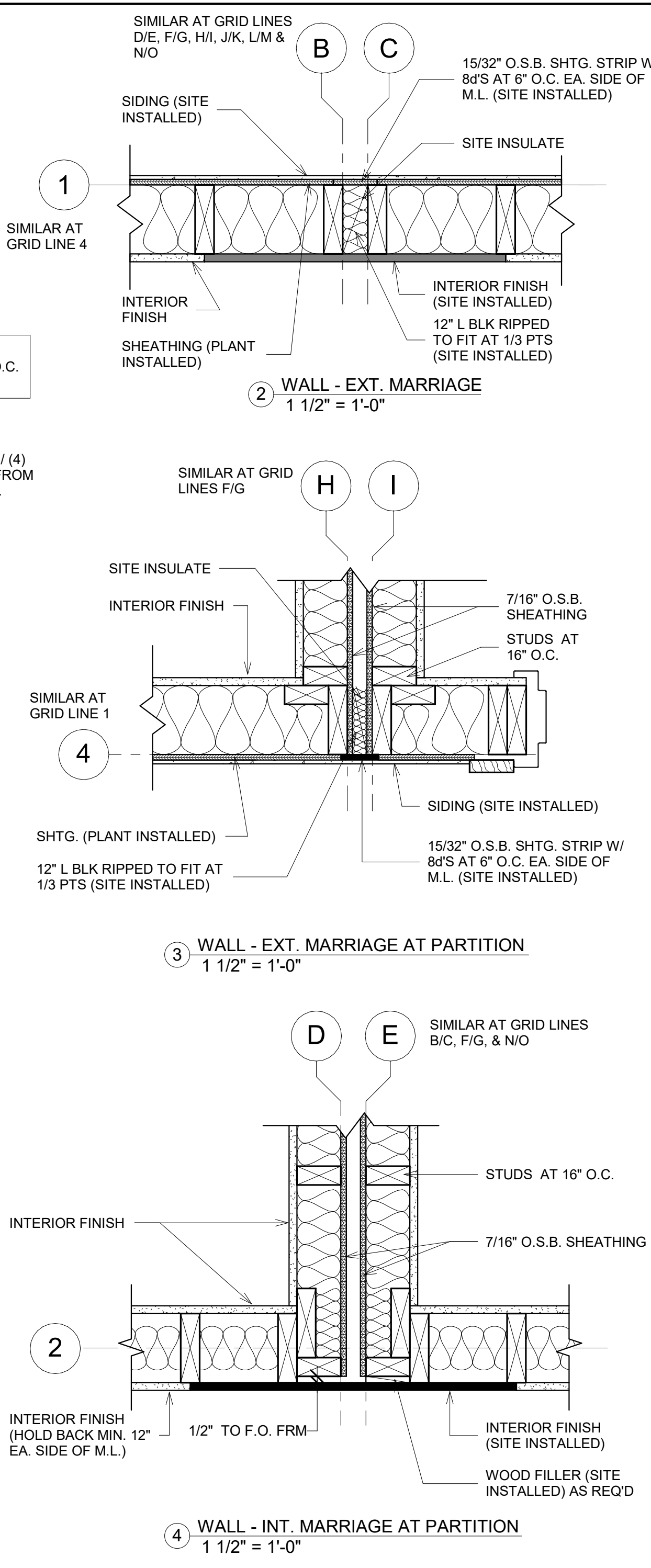
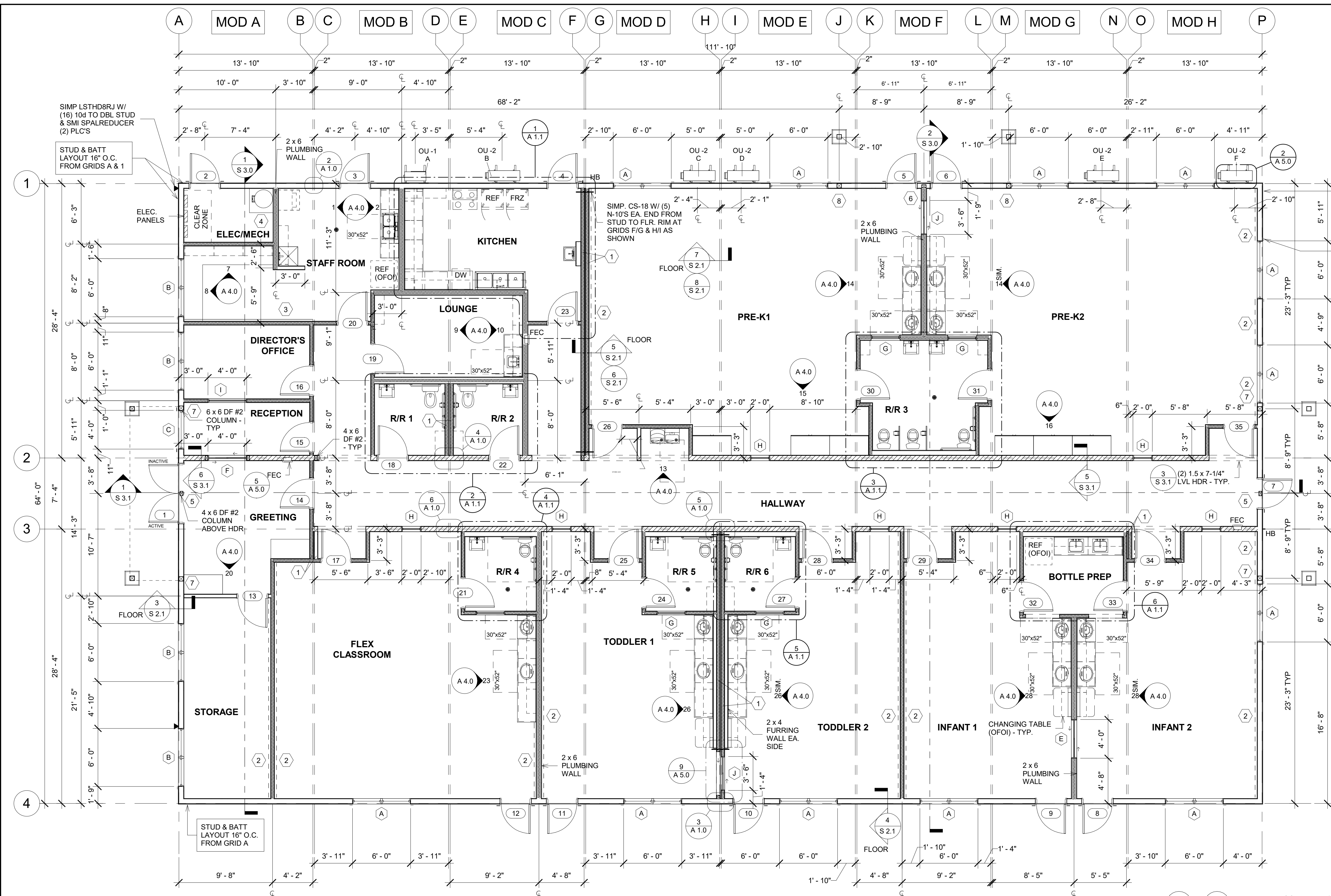
2 SIGNAGE - EXIT
NTS

USE CLASSIFICATION TABLE 2902.1	FUNCTION OF SPACE TABLE 1004.1.2	SUM OF OCC. LOAD
ASSEMBLY A-2	ASSEMBLY A-2 (19)	19
		0
BUSINESS/KITCHEN	BUSINESS (6)	6
EDUCATION	EDUCATION (113)	113
OCCUPANCY TOTAL		138

REQUIRED PLUMBING FIXTURES					
WATER CLOSET				LAVATORIES	
Men OCC.	Women OCC.	MEN W.C. FACTOR	MEN W.C. REQ'D	WOMEN W.C. FACTOR	WOMEN W.C. REQ'D
1 per 75	0.13	1 per 75	0.13	1 per 200	0.05
1 per 125	0.00	1 per 65	0.00	1 per 200	0.00
1/25 first 50 then 1/50	0.12	1/25 first 50 then 1/50	0.12	1/40 first 80 then 1/80	0.075
	1.13	1 per 50	1.13	1 per 50	1.13
FIXTURE SUB-TOTALS:		1.38	+	1.26	+
FIXTURE TOTALS:		3.00		3.00	

REV. DESCRIPTION	DATE	BY	REUSE OF DOCUMENTS THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN ARE THE PROPERTY OF MODERN BUILDING SYSTEMS LLC AND ARE NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER USE OR PROJECT WITHOUT WRITTEN AUTHORIZATION.		SHEET FIRE & LIFE SAFETY PLAN PROJ. 112' x 64' MODULAR CHILDCARE OSU - LITTLE KITS ADDRESS 1500 SW CHANDLER AVENUE BEND, OR 97702	JOB# 2023-LB-01 SHEET # A 0.1 DATE 7/10/24 PRELIM
------------------	------	----	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	--------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------

PRELIMINARY
NOT FOR
SUBMITTAL



FLOOR JOIST LAYOUT STARTED FROM GRID '1'. SEE SHEET S 2.0 & S 2.1 FOR PLUMBING BLOCK-OUT LOCATIONS

FLOOR PLAN LEGEND

	2 x 6 & 2 x 4 EXT./INT. WALLS
	2 x 6 INTERIOR LOAD BEARING WALL W/ SOUND INSULATION - FULL HEIGHT
	INTERIOR WALL W/ SOUND INSULATION

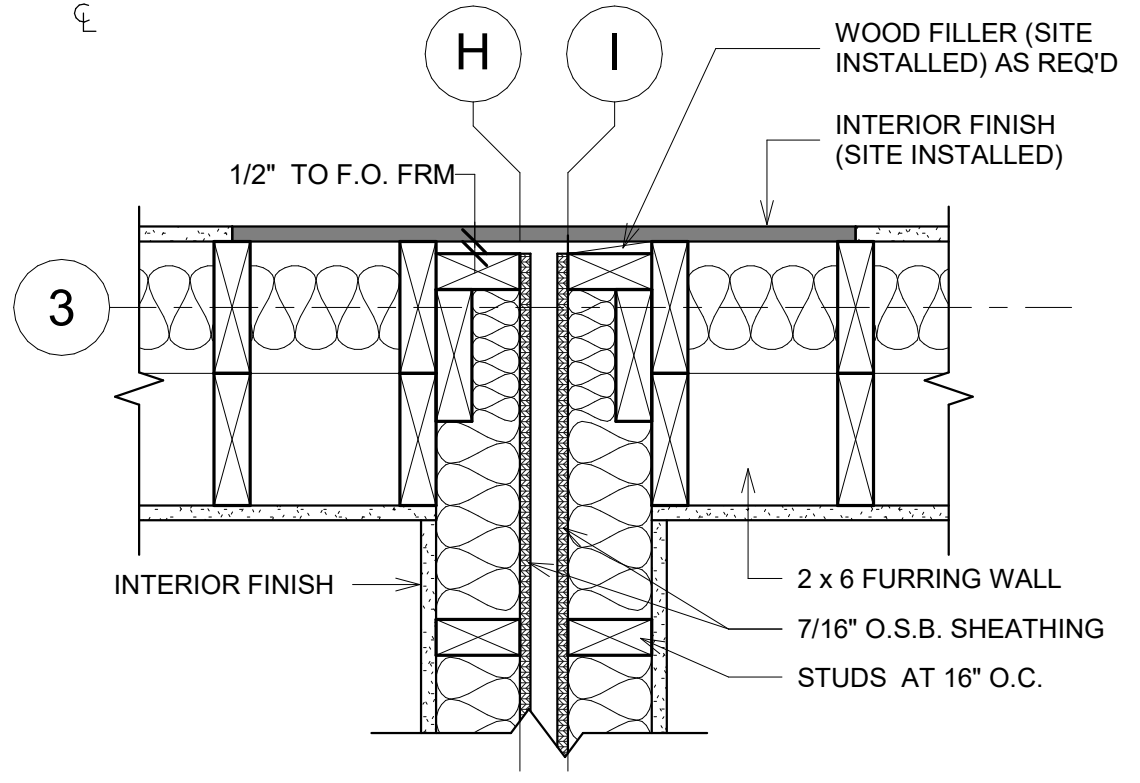
FLOOR PLAN NOTES

- SHEAR WALL TYPE IS BEARING WALL SYSTEM USING LIGHT-FRAME (WOOD) WALLS SHEATHED WITH WOOD STRUCTURAL PANELS. ALL EXTERIOR WALL PIERS WITH MAXIMUM ASPECT RATIO OF 2:1 ARE CONSIDERED AS ENGINEERED SHEAR WALLS
- FIRE BLOCKING SHALL BE PROVIDED IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES, AND PARALLEL ROWS OF STUDS OR STAGGERED STUDS, VERTICALLY AT CEILING AND FLOOR LEVELS, AND HORIZONTALLY AT INTERVALS NOT EXCEEDING TEN FEET

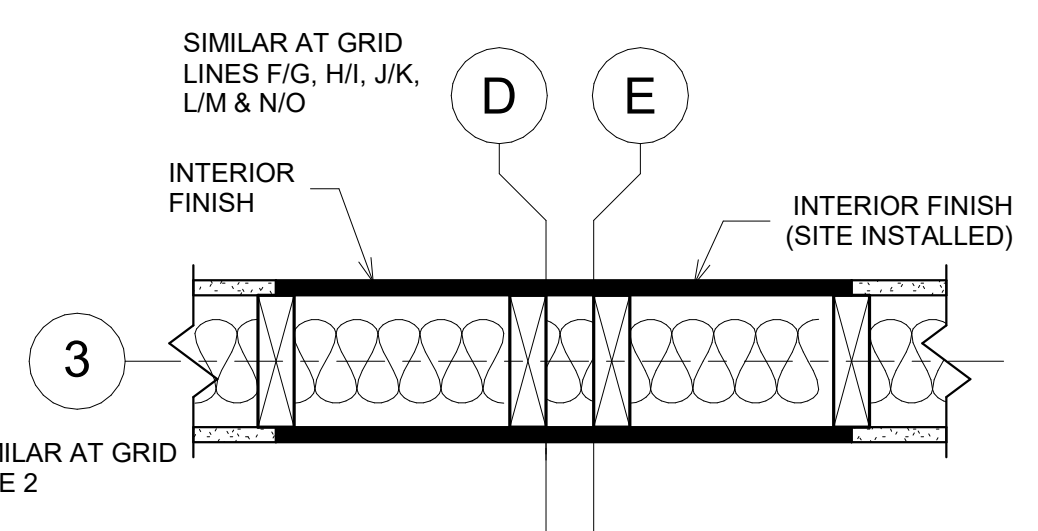
FLOOR PLAN KEYNOTES

- SHIPPING WALLS W/ 15/32" O.S.B. SHTG. W/ 8d AT 6" AND 8" O.C.
- 8'-0" HIGH 7/16" O.S.B. WALL BACKING BEHIND WALL FINISH
- 2 x WALL BLOCKING FROM 4'-0" A.F.F. TO 7'-0" A.F.F.
- 2'-6" W x 2'-6" L x 6'-0" T MELAMINE WH ENCLOSURE
- PORCH RIDGE GABLE TO WALL 1 CONNECTION
- PORCH RIDGE GABLE TO WALL 2 CONNECTION
- PORCH EAVE BEAM TO WALL 1 CONNECTION
- PORCH EAVE BEAM TO WALL 2 CONNECTION

1 FLOOR PLAN
3/16" = 1'-0"



3 WALL - INT. MARRIAGE AT PARTITION 2
1 1/2" = 1'-0"



6 WALL - INT. MARRIAGE
1 1/2" = 1'-0"

REV.	DESCRIPTION	DATE	BY

REUSE OF DOCUMENTS THIS DOCUMENT AND THE IDEAS AND DESIGN INCORPORATED HEREIN ARE THE PROPERTY OF MODERN BUILDING SYSTEMS, LLC AND ARE NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER USE OR PROJECT WITHOUT WRITTEN AUTHORIZATION.

MODERN BUILDING SYSTEMS, LLC
TELEPHONE: (503) 766-8844 FAX: (503) 766-8650
P.O. BOX 110, 9405 PORTER ROAD, JUMBLEVILLE, OR 97125
CHECK OUT OUR WEB PAGE: www.modernbuildingsystems.com
© MODERN BUILDING SYSTEMS, LLC 2024

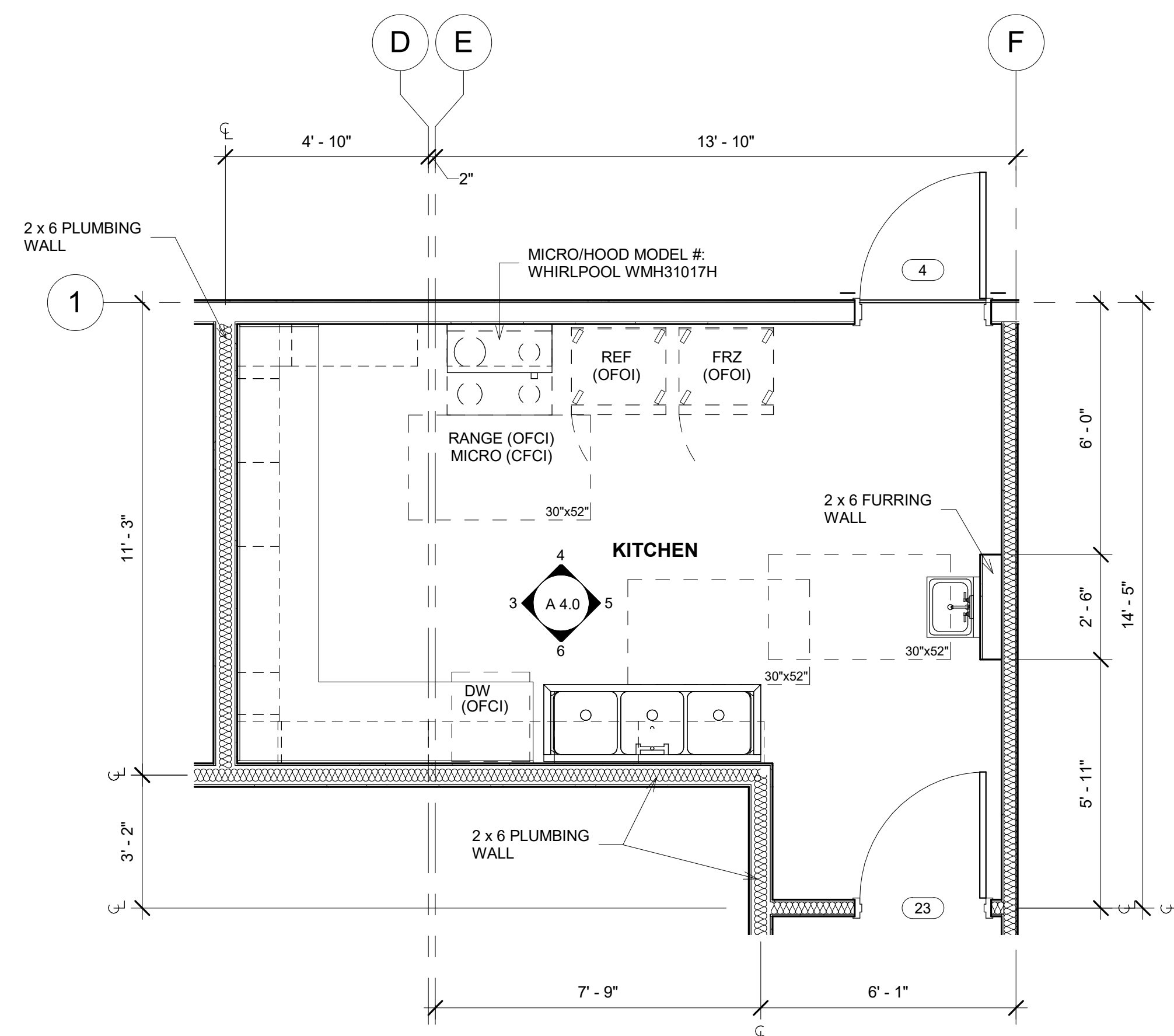
SHEET **FLOOR PLAN**
PROJ. **112' x 64' MODULAR CHILDCARE**
OSU - LITTLE KITS
ADDRESS **1500 SW CHANDLER AVENUE BEND, OR 97702**

JOB# **2023-LB-01**
SHEET # **A 1.0**
DATE **7/10/24 PRELIM**

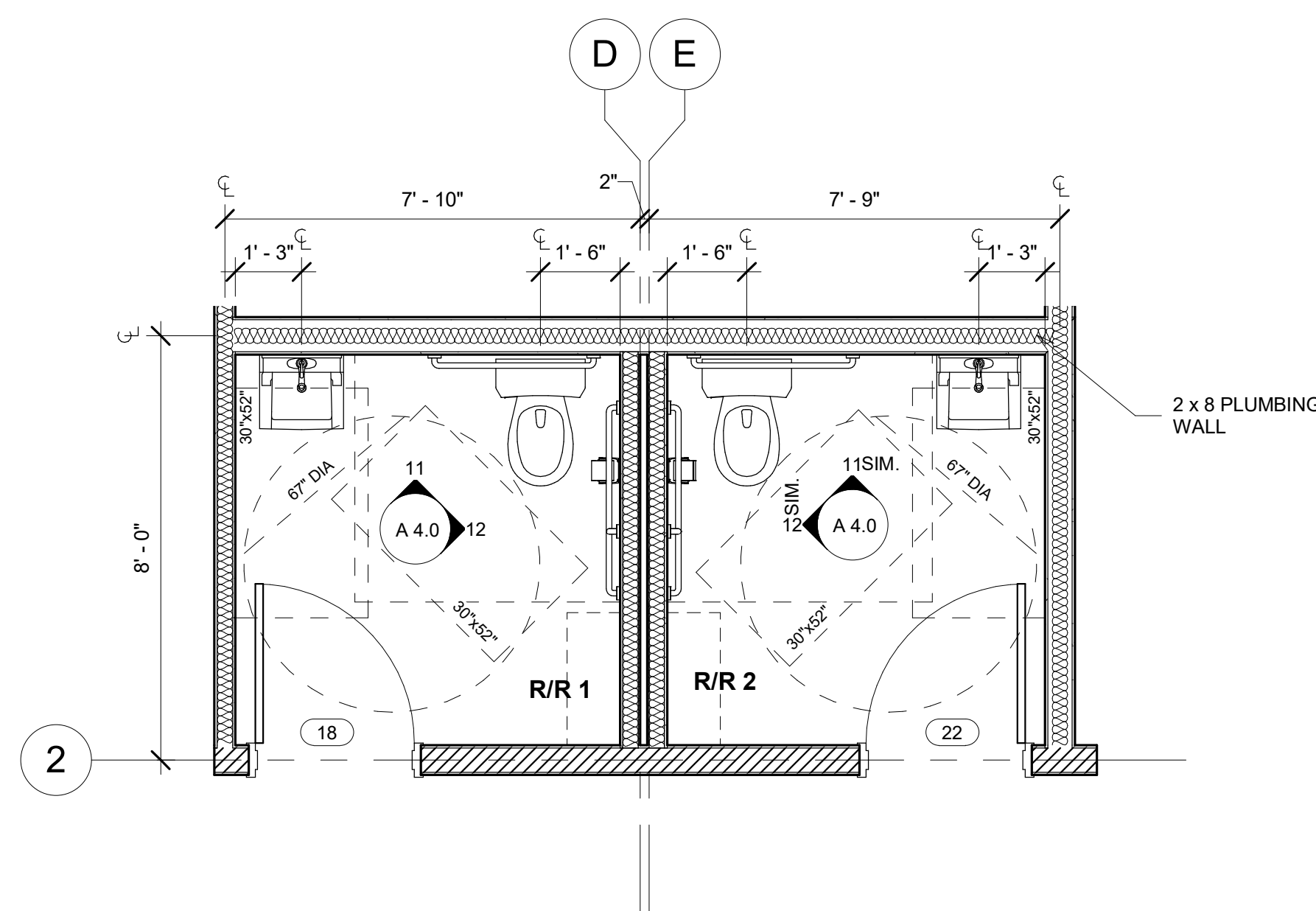
PRELIMINARY
NOT FOR
SUBMITTAL

ENLARGED PLAN NOTES

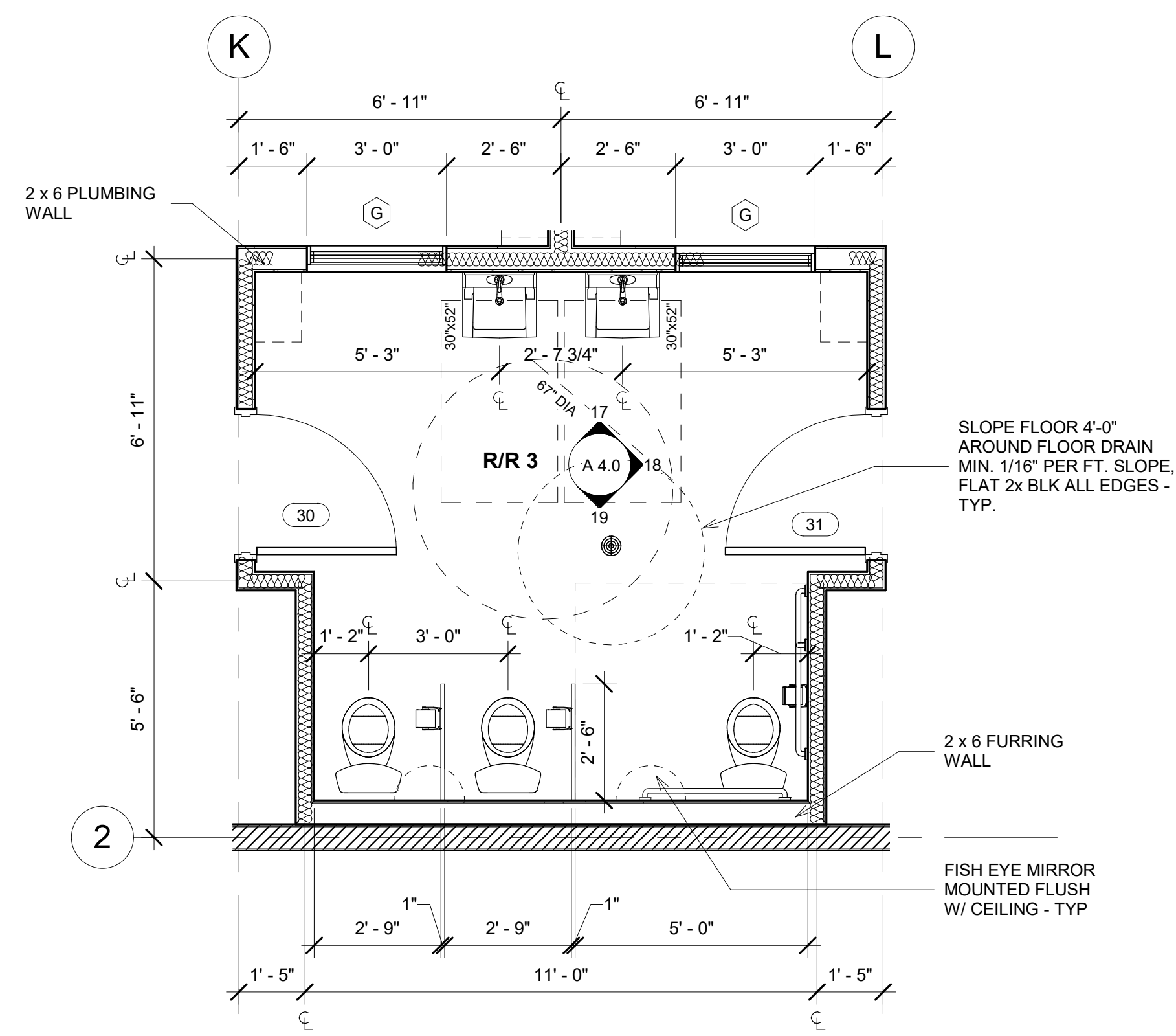
1. PLUMBING FIXTURE DIMENSIONS ARE FROM FACE OF FINISH (U.N.O.)



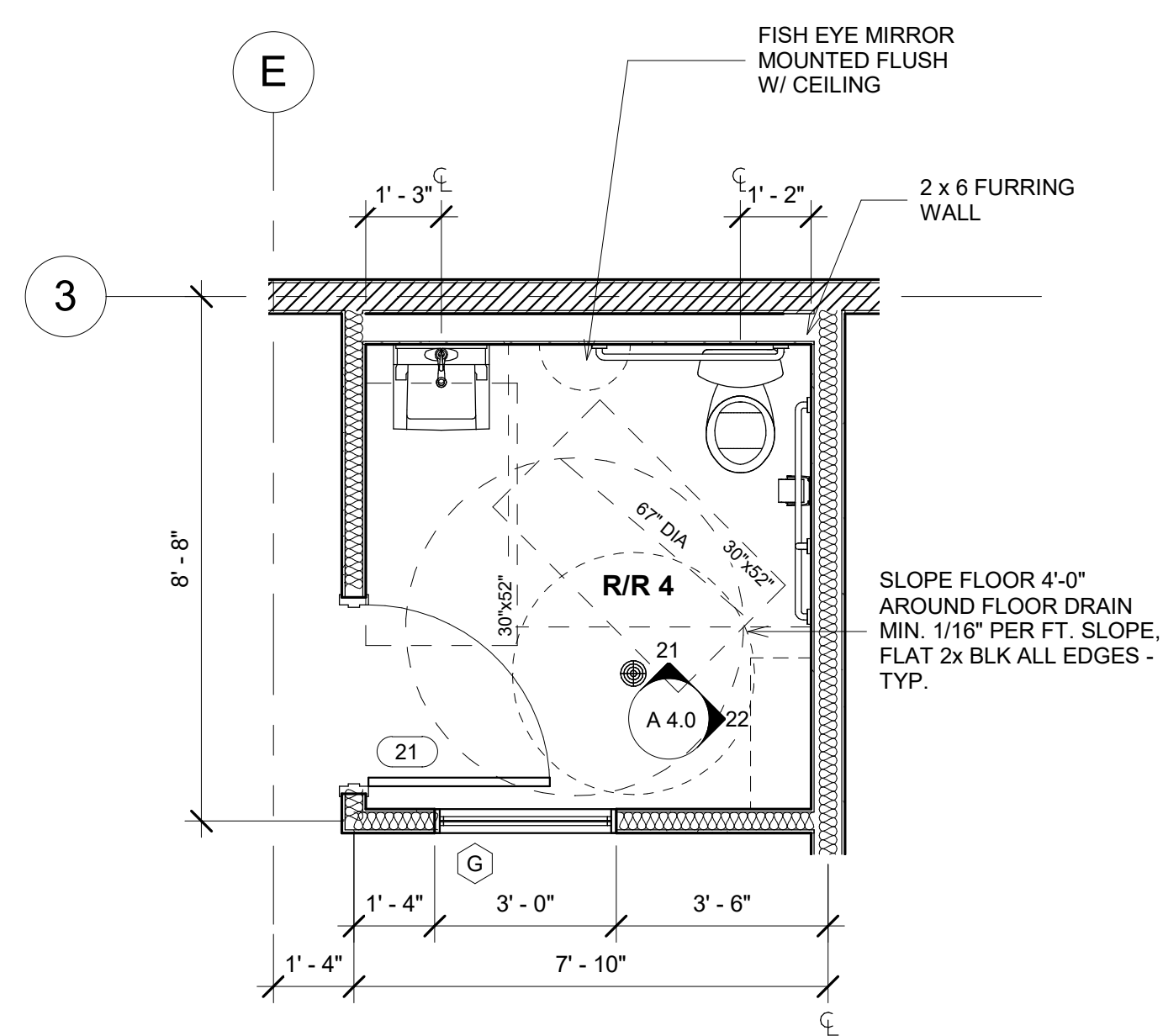
1 ENLARGED FLOOR PLAN - KITCHEN
3/8" = 1'-0"



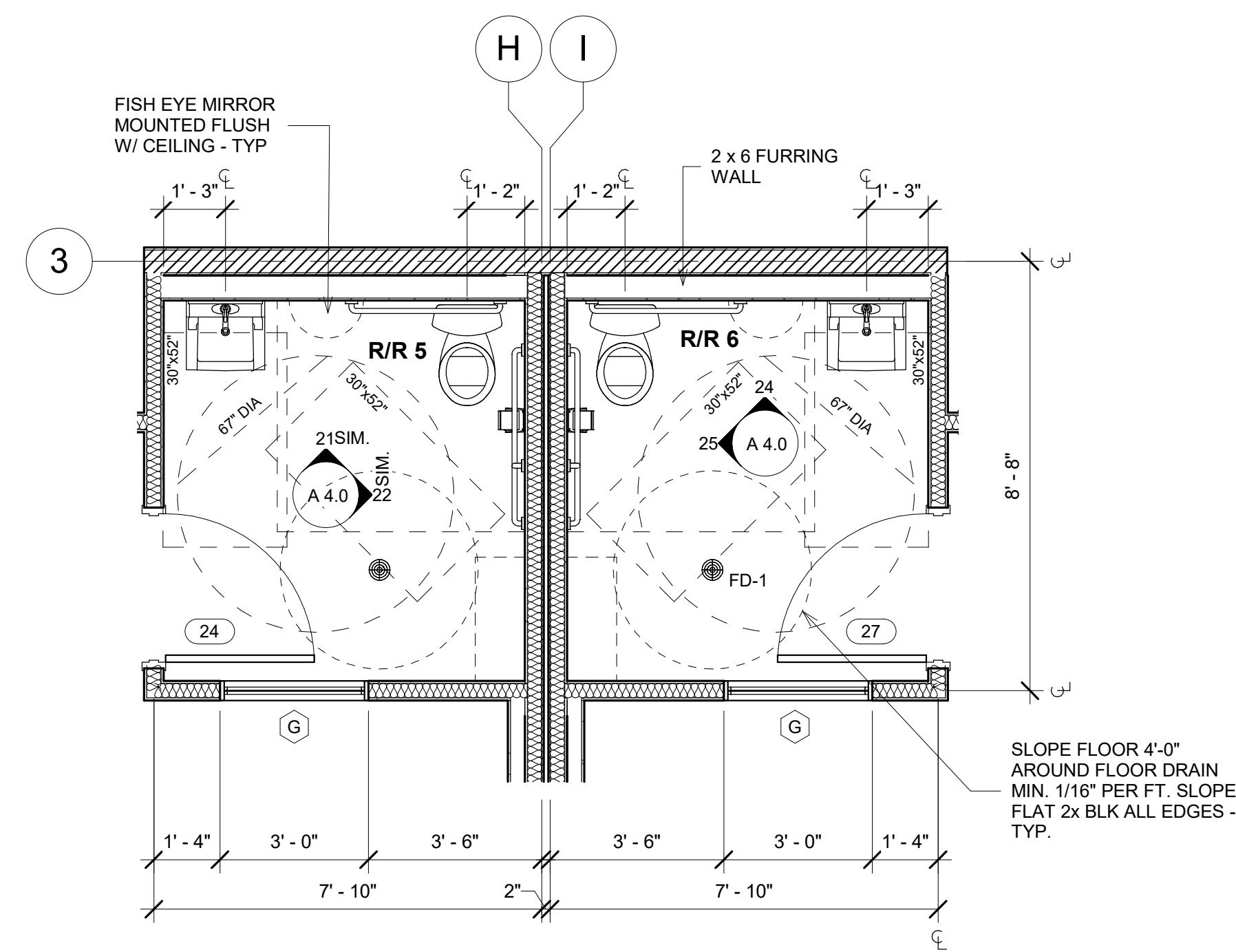
2 ENLARGED FLOOR PLAN - R/R 1 & 2
3/8" = 1'-0"



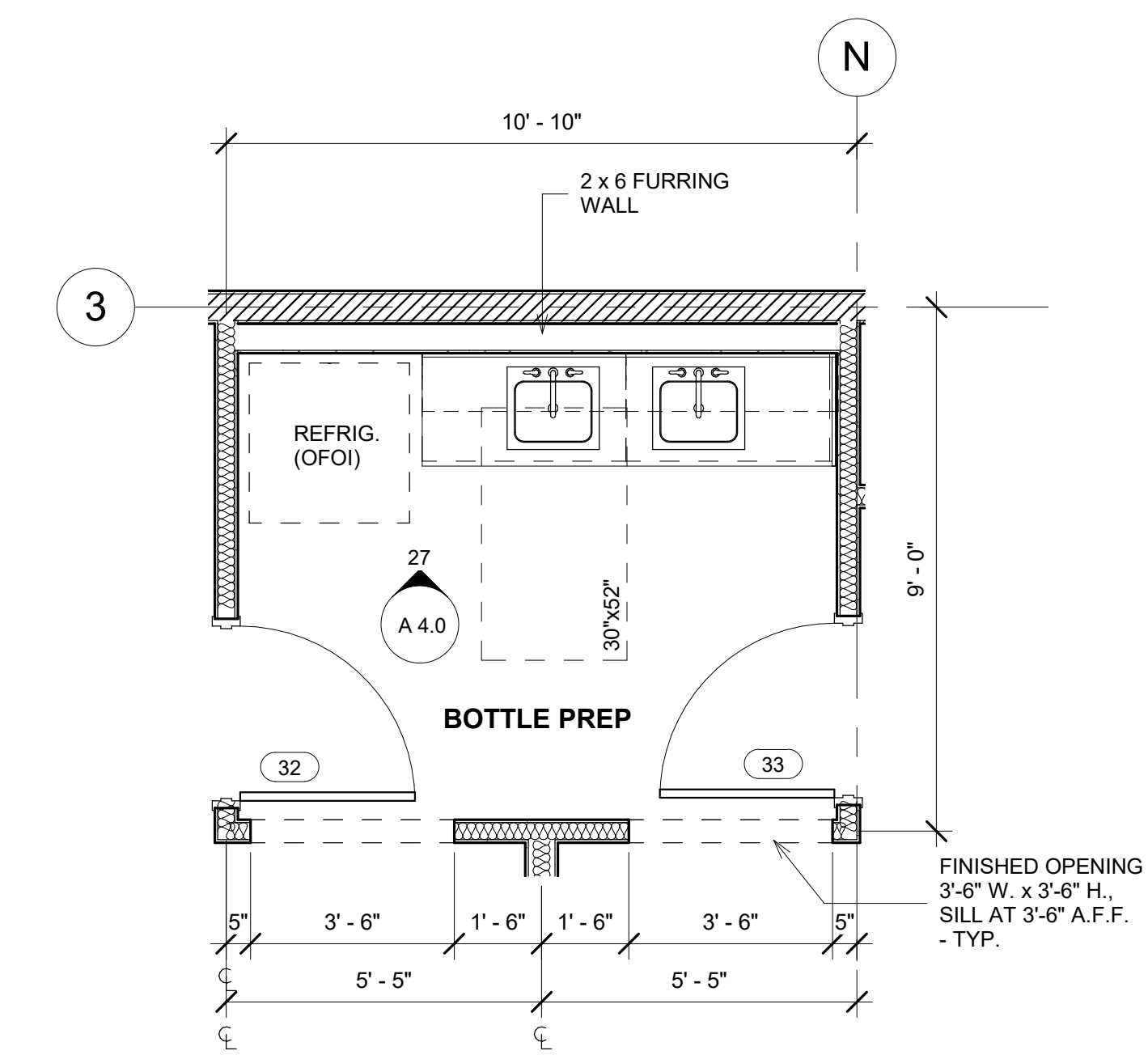
3 ENLARGED FLOOR PLAN - R/R 3
3/8" = 1'-0"



4 ENLARGED FLOOR PLAN - R/R 4
3/8" = 1'-0"



5 ENLARGED FLOOR PLAN - R/R 5 & R/R 6
3/8" = 1'-0"



6 ENLARGED FLOOR PLAN - BOTTLE PREP
3/8" = 1'-0"

PRELIMINARY
NOT FOR
SUBMITTAL

REV.	DESCRIPTION	DATE	BY	SHEET ENLARGED PLANS		JOB#
				PROJ. 112' x 64' MODULAR CHILDCARE		2023-LB-01
				OSU - LITTLE KITS		SHEET # A 1.1
				ADDRESS 1500 SW CHANDLER AVENUE BEND, OR 97702		DATE 7/10/24 PRELIM

REUSE OF DOCUMENTS THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN ARE THE PROPERTY OF MODERN BUILDING SYSTEMS, LLC AND ARE NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER USE OR PROJECT WITHOUT WRITTEN AUTHORIZATION.

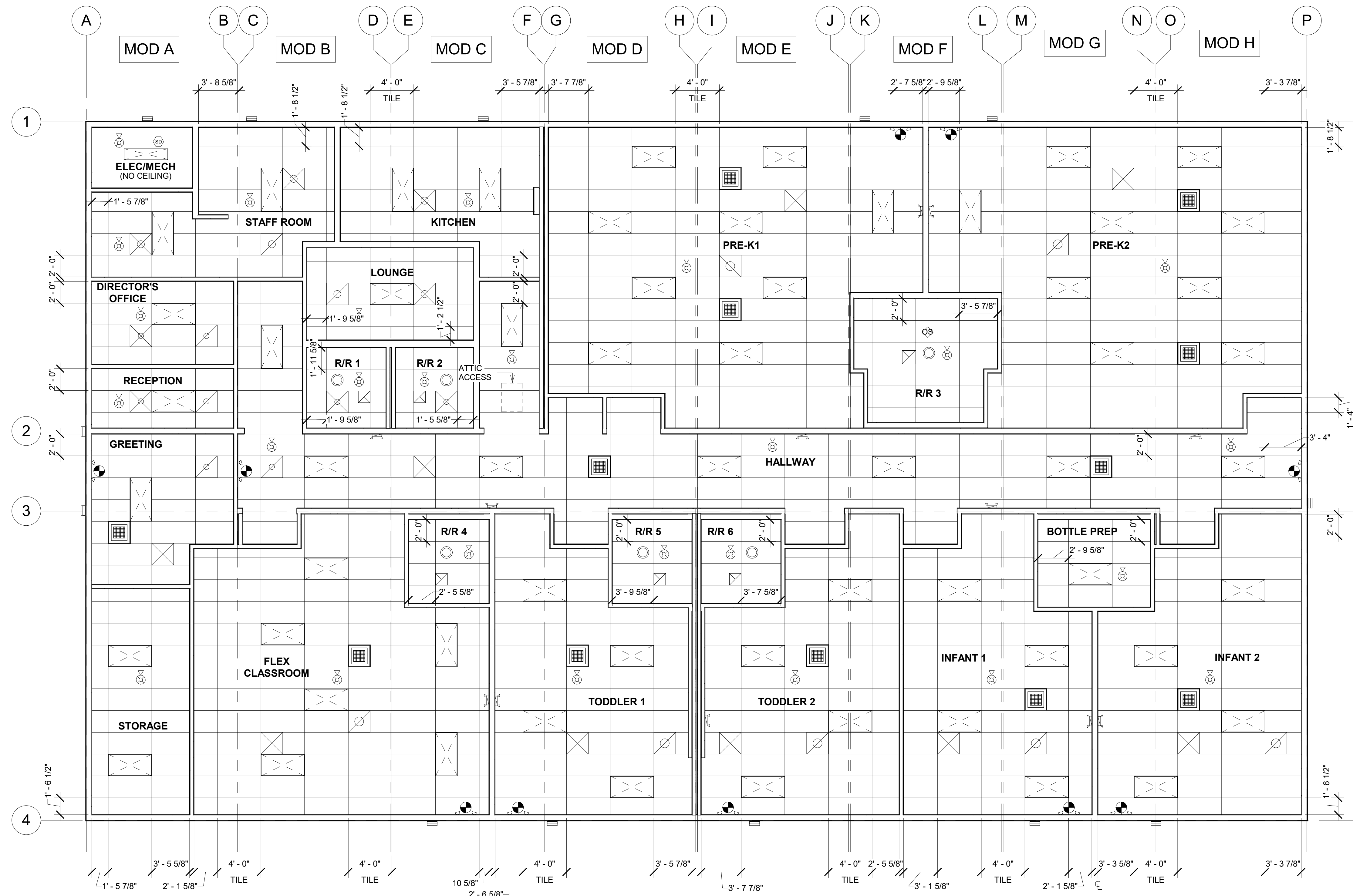
MODERN
BUILDING SYSTEMS
MODERN BUILDING SYSTEMS, LLC
TELEPHONE: (503) 766-8888 FAX: (503) 766-8900
P.O. BOX 110, 9405 PORTER ROAD, JUMBLEVILLE, OR 97125
CHECK OUT OUR WEBSITE: WWW.MODERNBUILDINGSYSTEMS.COM
© MODERN BUILDING SYSTEMS, LLC 2024

DRW BJ

REFLECTED CEILING PLAN NOTES

1. DIMENSIONS TO FLOOR, WALLS AND CEILING ARE TO FACE OF FINISH (U.N.O.)

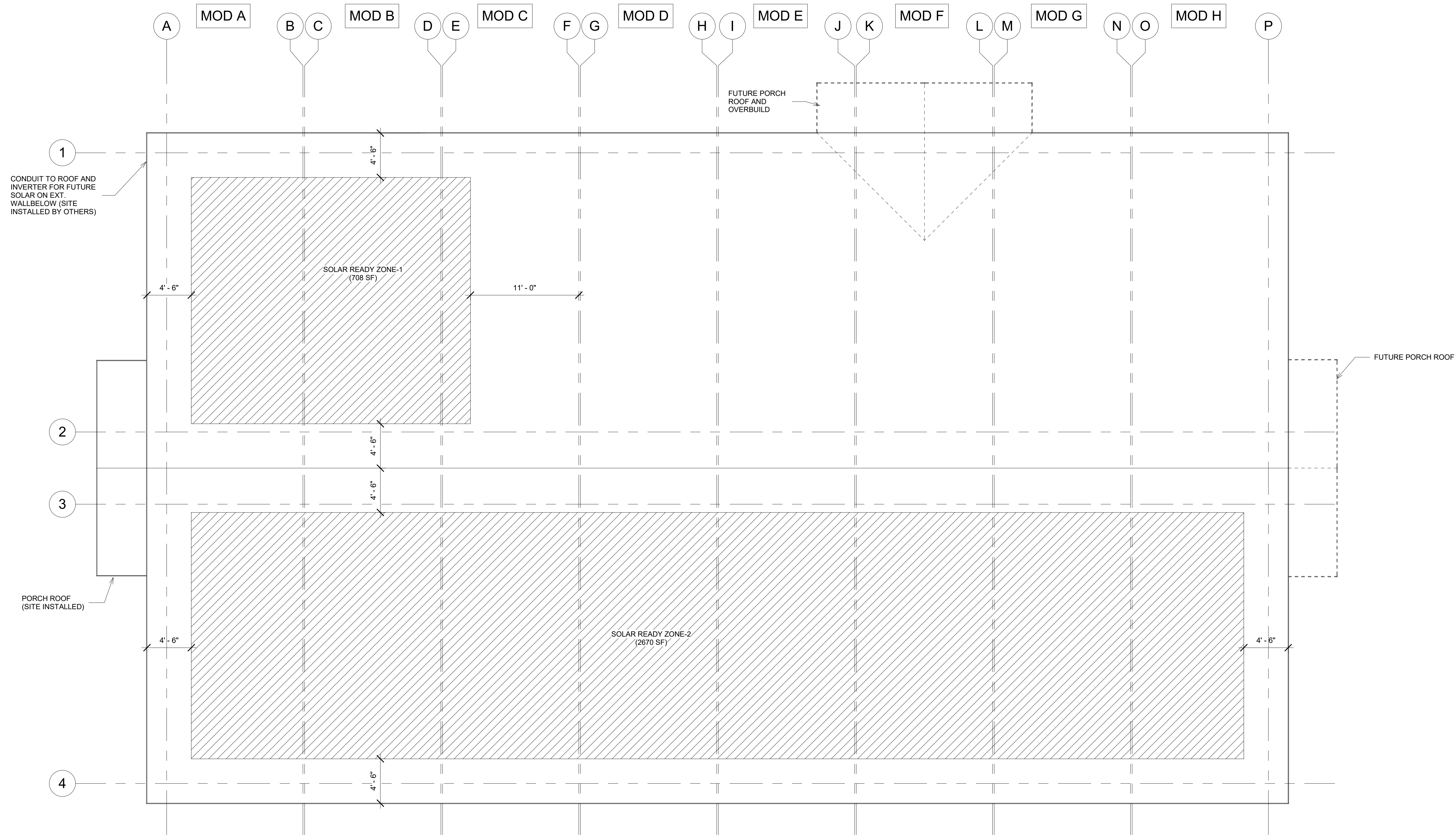
REFLECTED CEILING SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
	LAY-IN FIXTURE
	SURFACE MOUNT FIXTURE
	EXTERIOR EMERGENCY WALL MOUNTED LIGHT FIXTURE
	EXIT/EMERGENCY LIGHT
	EMERGENCY LIGHT
	OCCUPANCY SENSOR
	LAY-IN SUPPLY DIFFUSER
	LAY-IN RETURN GRILLE
	EXHAUST FAN
	CEILING MOUNTED INDOOR UNIT
	AUDIO/VISUAL FIRE ALARM (BY OTHERS)
	SMOKE DETECTOR (BY OTHERS)



1 REFLECTED CEILING PLAN
3/16" = 1'-0"

PRELIMINARY
NOT FOR
SUBMITTAL

REV.	DESCRIPTION	DATE	BY	MODERN BUILDING SYSTEMS		SHEET	REFLECTED CEILING PLAN	JOB#	2023-LB-01
				<small>REUSE OF DOCUMENTS THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN ARE THE PROPERTY OF MODERN BUILDING SYSTEMS, LLC AND ARE NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER USE OR PROJECT WITHOUT WRITTEN AUTHORIZATION.</small>		PROJ.	112' x 64' MODULAR CHILDCARE	SHEET #	A 1.2
				<small>MODERN BUILDING SYSTEMS, LLC TELEPHONE: (503) 766-8889 FAX: (503) 766-8950 P.O. BOX 110, 9405 PORTER ROAD, JUMBLEVILLE, OR 97125 CHECK OUT OUR WEBSITE: WWW.MODERNBUILDINGSYSTEMS.COM © MODERN BUILDING SYSTEMS, LLC 2024</small>		ADDRESS	1500 SW CHANDLER AVENUE BEND, OR 97702	DRW	BJ
								DATE	7/10/24 PRELIM



NOTE: FUTURE SOLAR PANEL INSTALLATION AS REQ'D PER MANUFACTURES SPECIFICATIONS. DRAWING SHOWS APPROXIMATE LOCATION ONLY

ROOF SOLAR READY AREA		
Area	40% Of Roof Area (Required)	Solar Roof Area (Provided)
8069 SF	3228 SF	3378 SF

1 SOLAR ROOF PLAN
3/16" = 1'-0"

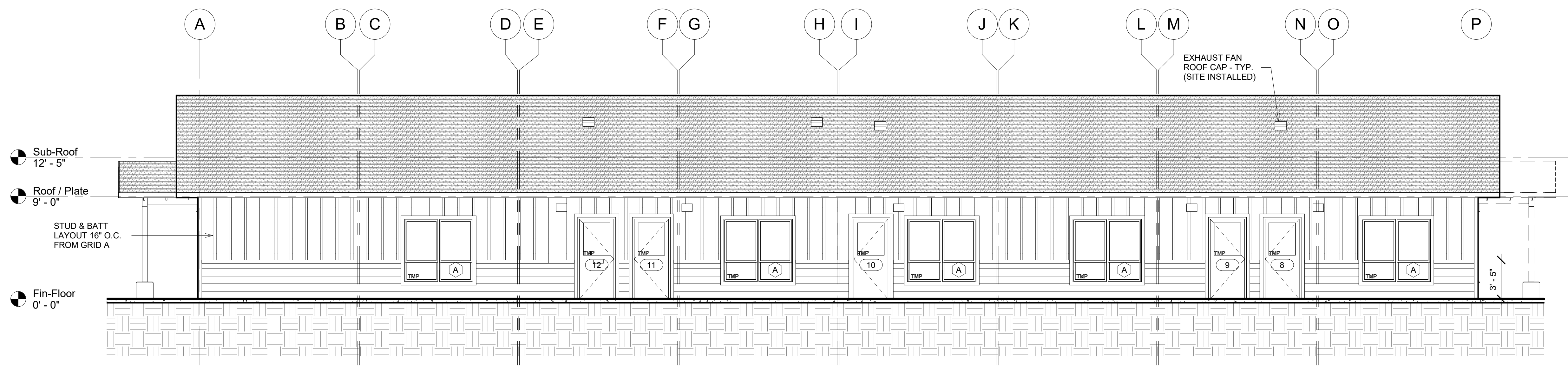
PRELIMINARY
NOT FOR
SUBMITTAL

REV.	DESCRIPTION	DATE	BY	SHEET SOLAR ROOF PLAN		JOB#
				PROJ. 112' x 64' MODULAR CHILDCARE		2023-LB-01
				OSU - LITTLE KITS		SHEET # A 1.3
				ADDRESS 1500 SW CHANDLER AVENUE BEND, OR 97702		DATE 7/10/24 PRELIM

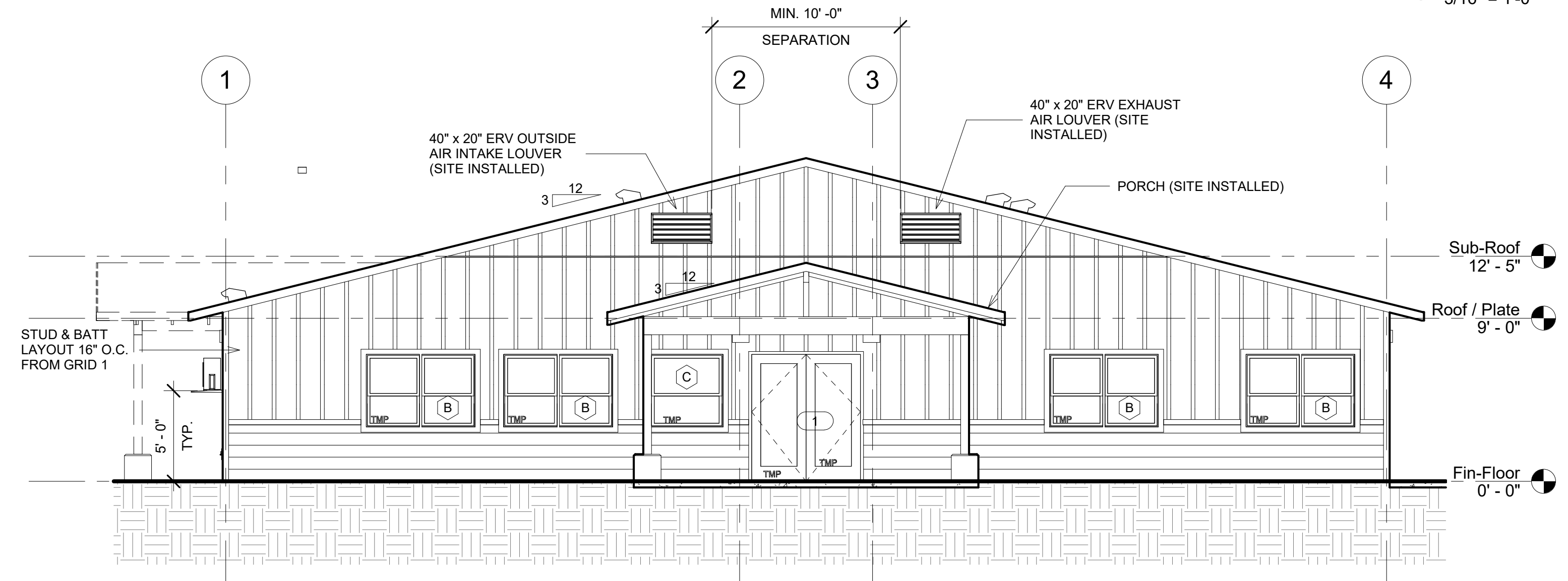
REUSE OF DOCUMENTS THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN ARE THE PROPERTY OF MODERN BUILDING SYSTEMS LLC AND ARE NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER USE OR PROJECT WITHOUT WRITTEN AUTHORIZATION.



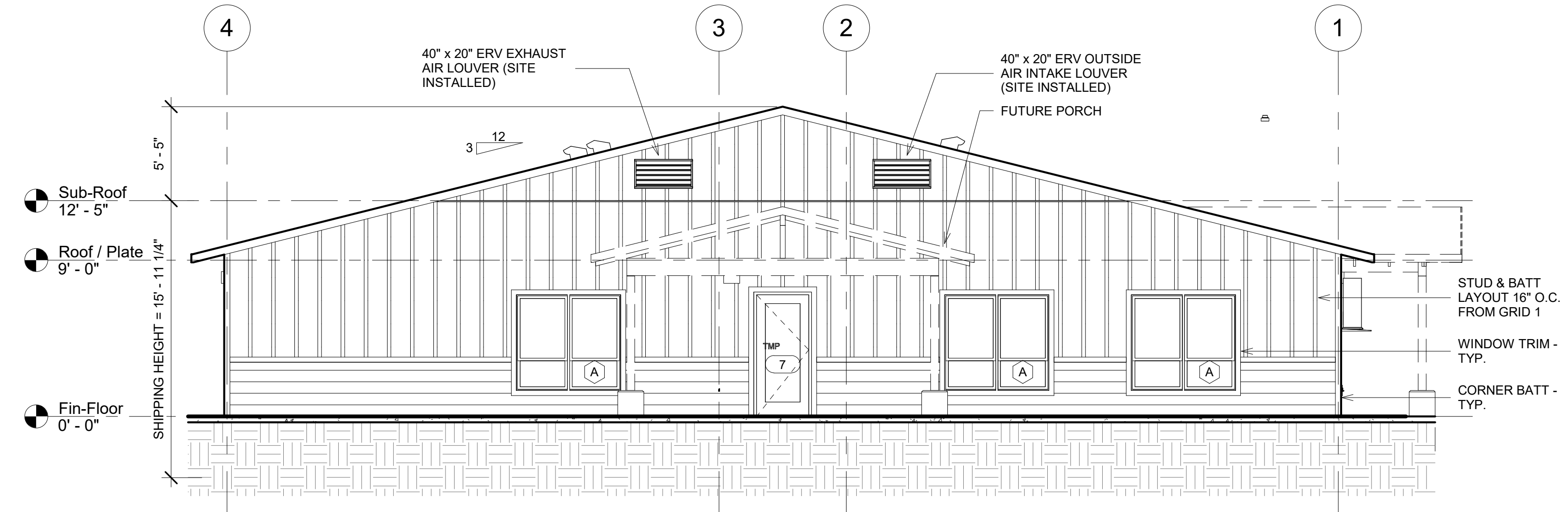
MODERN BUILDING SYSTEMS, LLC
TELEPHONE (503) 766-8889 FAX (503) 766-8920
P.O. BOX 110, 9405 PORTER ROAD, JAMESVILLE, OR 97125
CHECK OUT OUR WEBSITE: www.modernbuilding.com
© MODERN BUILDING SYSTEMS, LLC 2024



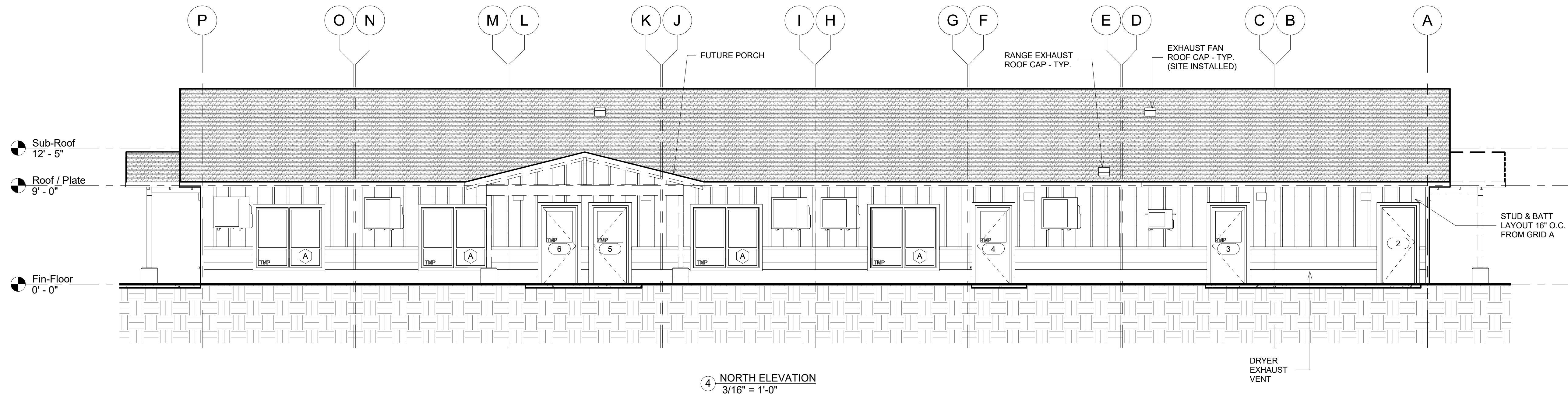
1 SOUTH ELEVATION
3/16" = 1'-0"



2 WEST ELEVATION
3/16" = 1'-0"



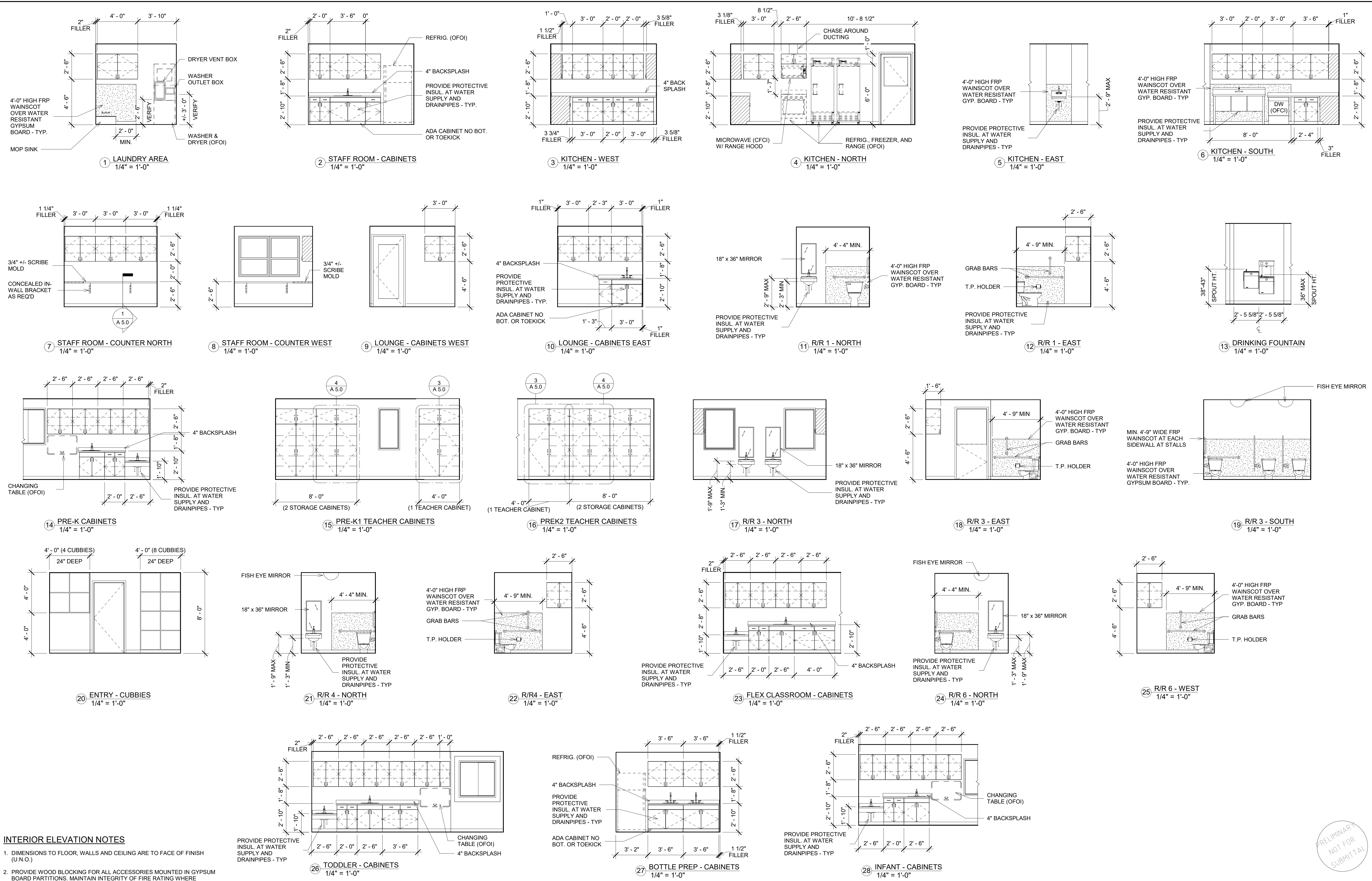
3 EAST ELEVATION
3/16" = 1'-0"



4 NORTH ELEVATION
3/16" = 1'-0"

PRELIMINARY
NOT FOR
SUBMITTAL

REV.	DESCRIPTION	DATE	BY	MODERN BUILDING SYSTEMS		SHEET	EXTERIOR ELEVATIONS	JOB#	2023-LB-01
				<small>REUSE OF DOCUMENTS THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN ARE THE PROPERTY OF MODERN BUILDING SYSTEMS, LLC AND ARE NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER USE OR PROJECT WITHOUT WRITTEN AUTHORIZATION.</small>		PROJ.	112' x 64' MODULAR CHILDCARE	SHEET #	
				<small>MODERN BUILDING SYSTEMS, LLC TELEPHONE: (503) 766-8849 FAX: (503) 766-8920 P.O. BOX 110, 9405 PORTER ROAD, JUMBLEVILLE, OR 97225 CHECK OUT OUR WEB PAGE: WWW.MODERNBUILDINGSYSTEMS.COM © MODERN BUILDING SYSTEMS, LLC 2024</small>		OSU - LITTLE KITS		A 2.0	
				<small>ADDRESS 1500 SW CHANDLER AVENUE BEND, OR 97702</small>		DRW	BJ	DATE 7/10/24 PRELIM	



INTERIOR ELEVATION NOTES

- DIMENSIONS TO FLOOR, WALLS AND CEILING ARE TO FACE OF FINISH (U.O.)
- PROVIDE WOOD BLOCKING FOR ALL ACCESSORIES MOUNTED IN GYPSUM BOARD PARTITIONS. MAINTAIN INTEGRITY OF FIRE RATING WHERE ACCESSORIES ARE IN RATED WALLS.
- SEE DETAILS FOR ADA RESTROOM ACCESSORIES AND MOUNTING HEIGHTS.
- MIN. 9" TOE CLEARANCE AT PARTITIONS. URINAL PARTIONS MOUNTED WITH BOT. AT 12" FROM FINISHED FLOOR AND TOP AT NO MORE THAN 60" FROM FINISHED FLOOR ANT NOT TO EXTEND FROM WALL MORE THAN 18".

PROVIDE WOOD WALL BLOCKING AS NEEDED FOR ALL ACCESSORIES, PARTITIONS, PLUMBING FIXTURES, EQUIPMENT AND DOOR WALL STOPS

PRELIMINARY
NOT FOR
SUBMITTAL

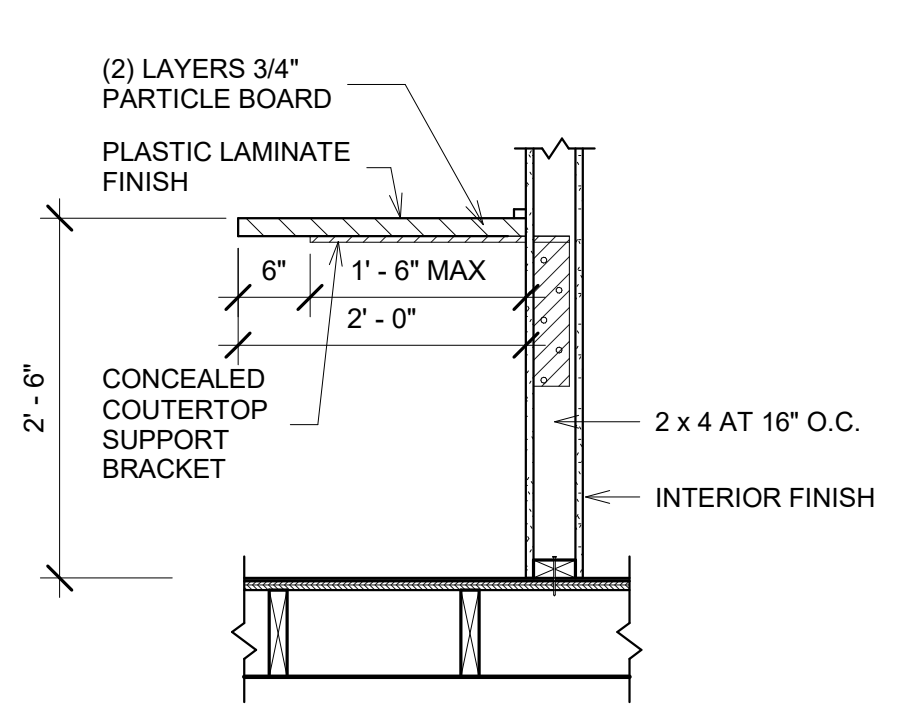
REV.	DESCRIPTION	DATE	BY

REUSE OF DOCUMENTS THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN ARE THE PROPERTY OF MODERN BUILDING SYSTEMS, LLC AND ARE NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER USE OR PROJECT WITHOUT WRITTEN AUTHORIZATION.

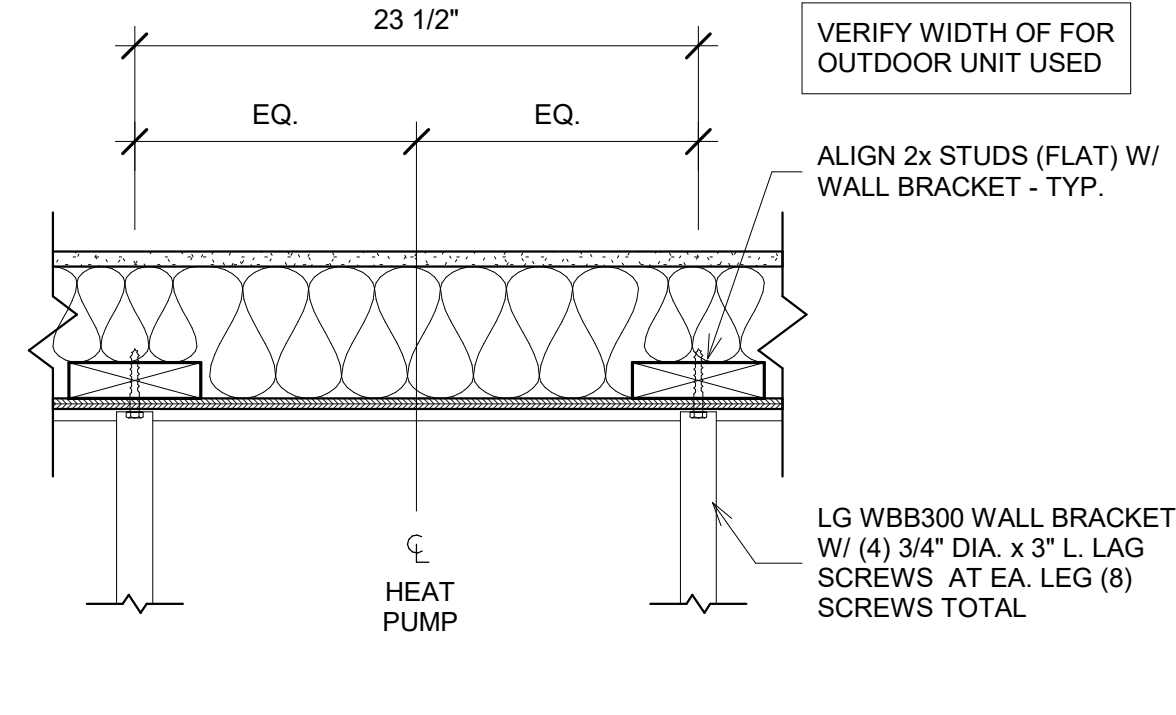
MODERN BUILDING SYSTEMS, LLC
TELEPHONE: (503) 768-8888 FAX: (503) 768-8600
P.O. BOX 110, 9405 PORTER ROAD, JUMBLEVILLE, OR 97225
CHECK OUT OUR WEB PAGE: www.modernbuilding.com

SHEET INTERIOR ELEVATIONS
PROJ. 112' x 64' MODULAR CHILDCARE
OSU - LITTLE KITS
ADDRESS 1500 SW CHANDLER AVENUE BEND, OR 97702
DRW BJ DATE 7/10/24 PRELIM

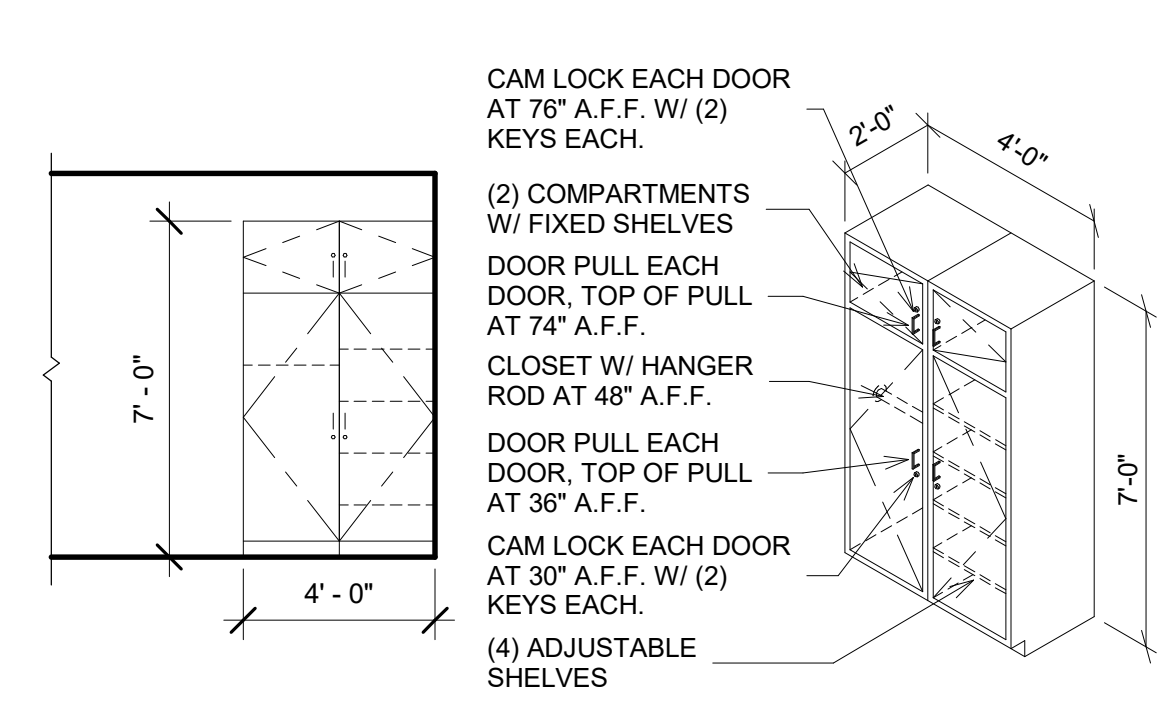
JOB# 2023-LB-01
SHEET # **A 4.0**



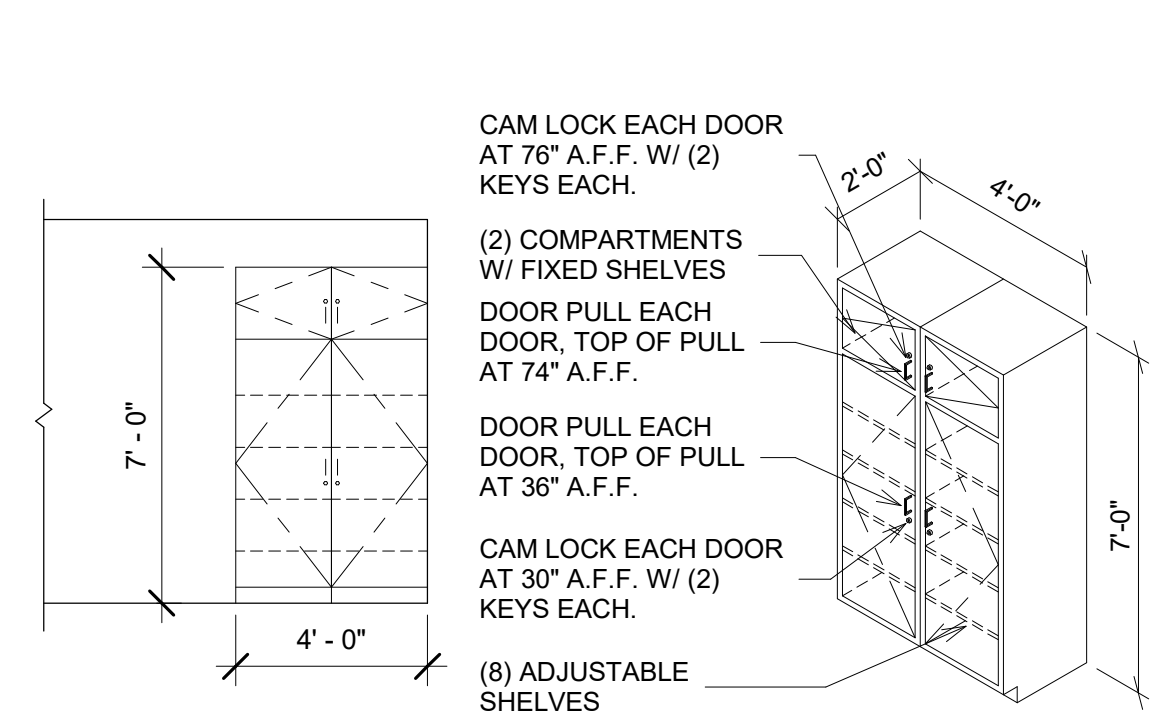
1 CASEWORK - COUNTER BRACKET TYP.
3/4" = 1'-0"



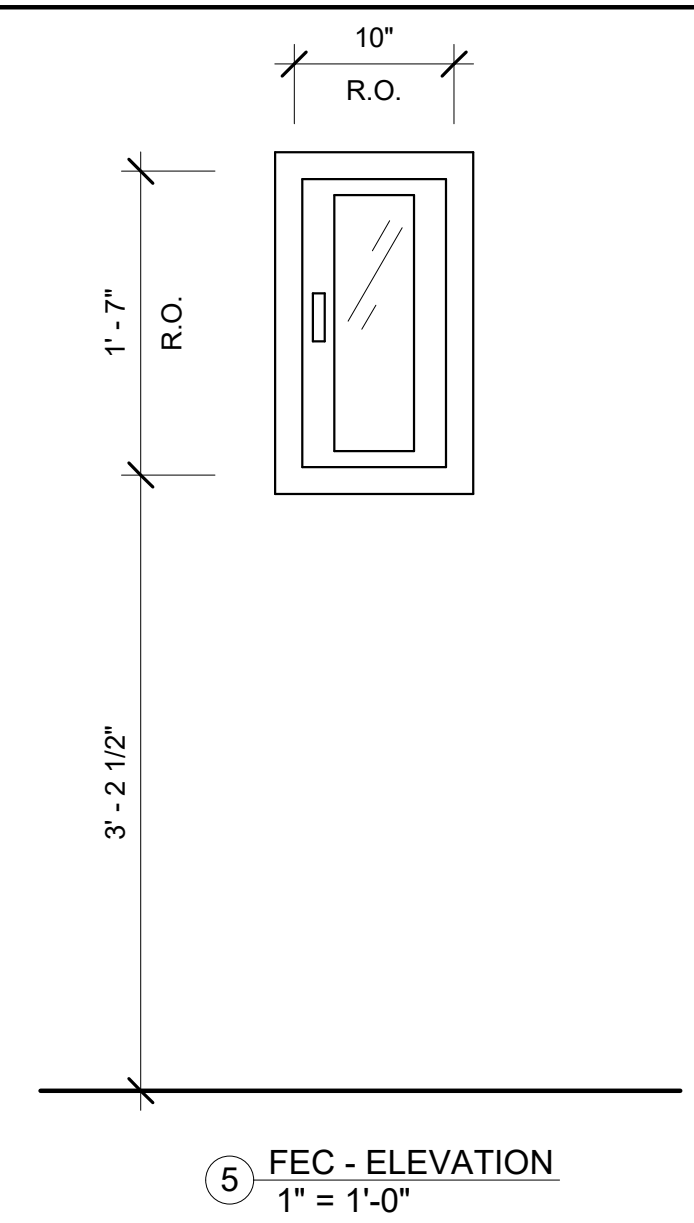
2 WALL - HEAT PUMP MOUNTING
1 1/2" = 1'-0"



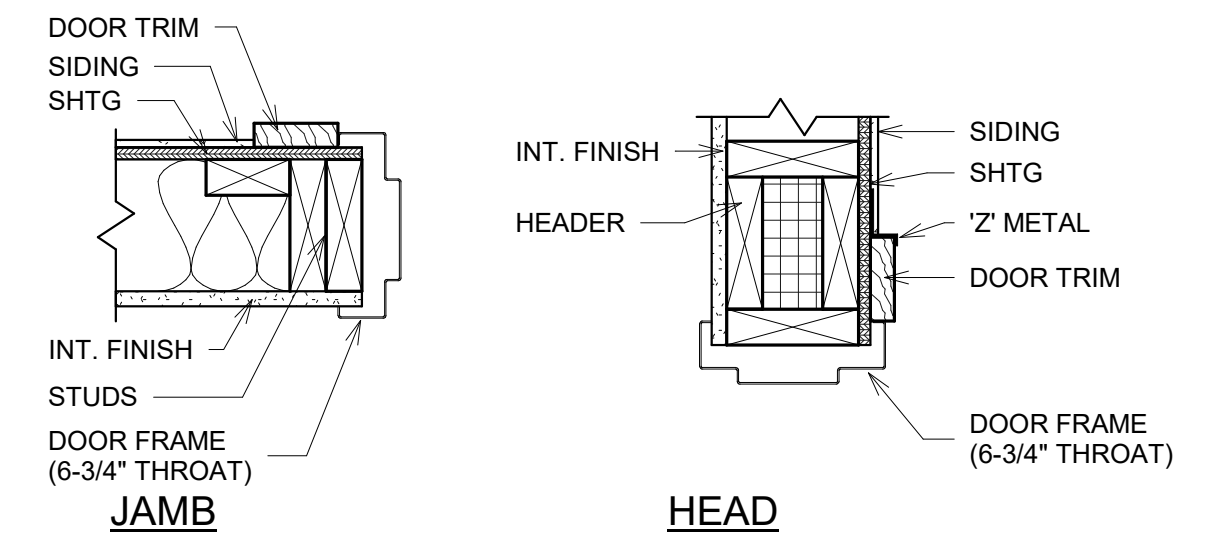
3 CASEWORK - TEACHER CABINET
1/4" = 1'-0"



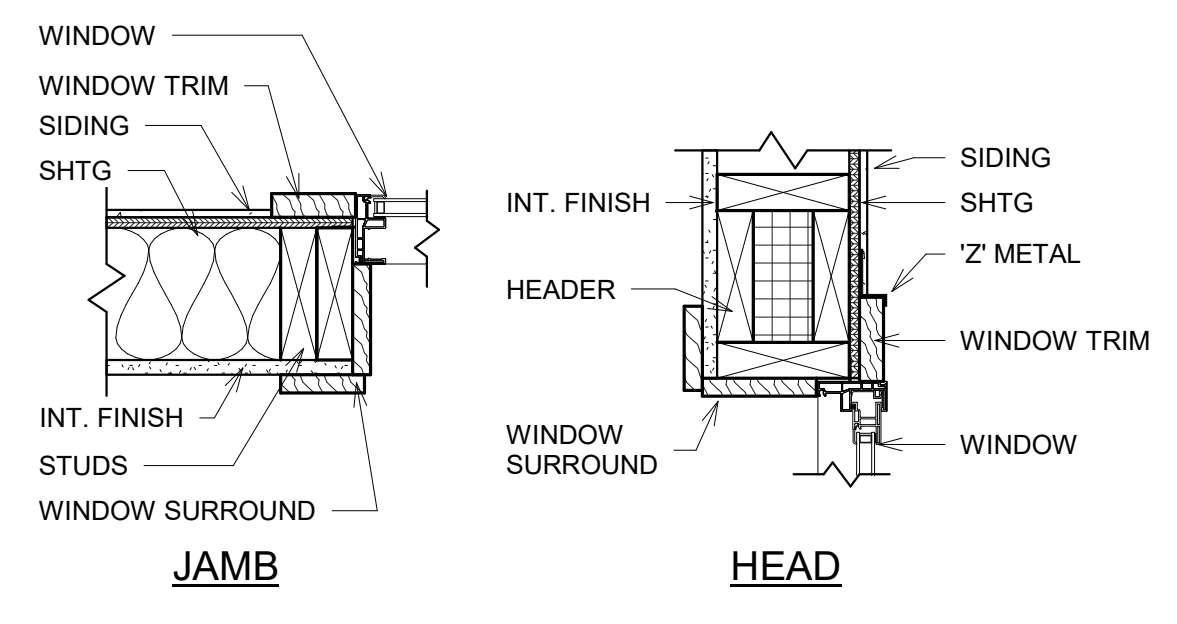
4 CASEWORK - STORAGE CABINET
1/4" = 1'-0"



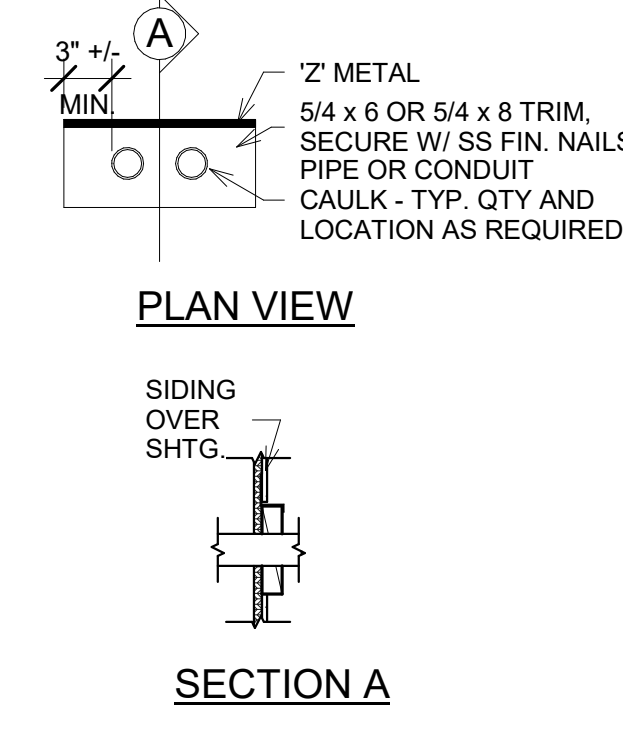
5 FEC - ELEVATION
1" = 1'-0"



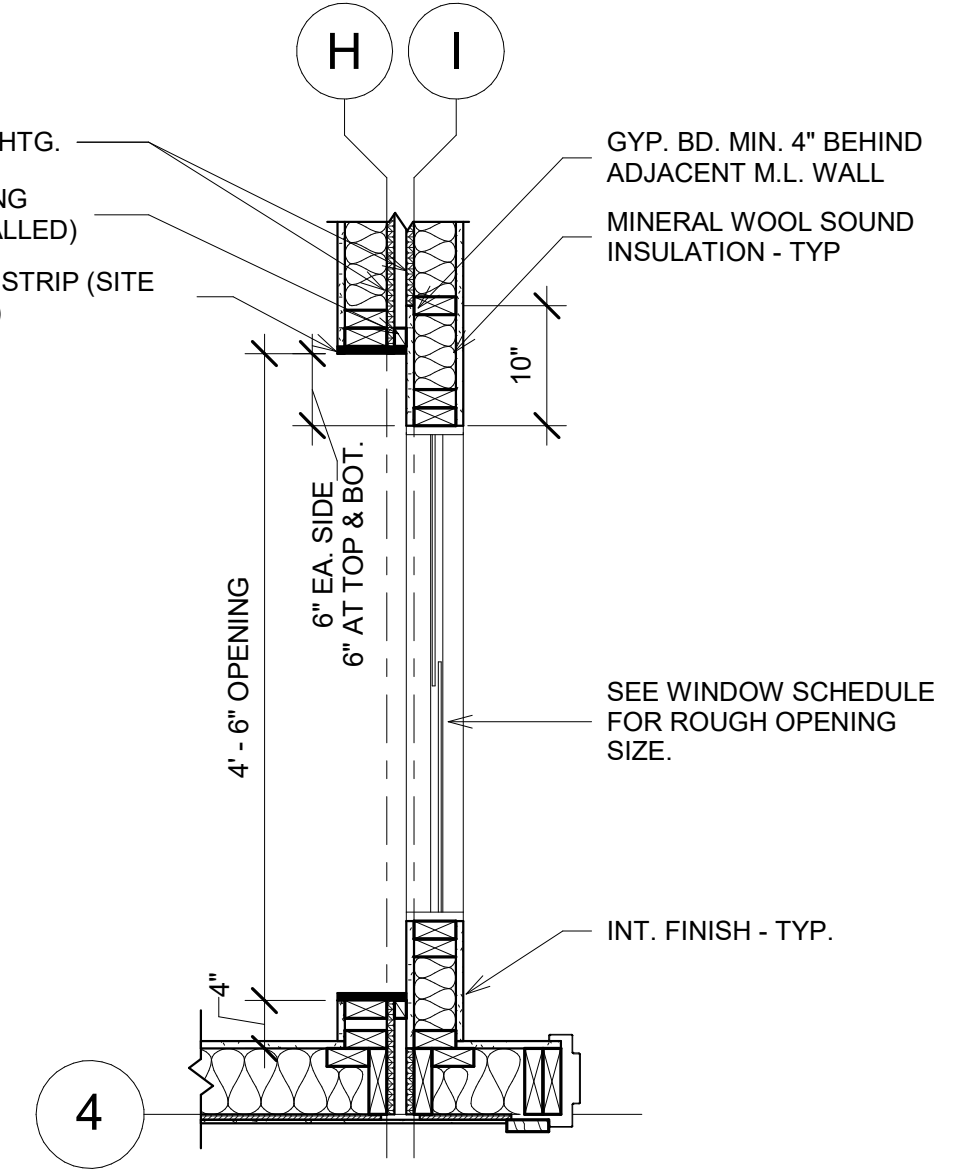
6 EXTERIOR DOOR DETAILS
1 1/2" = 1'-0"



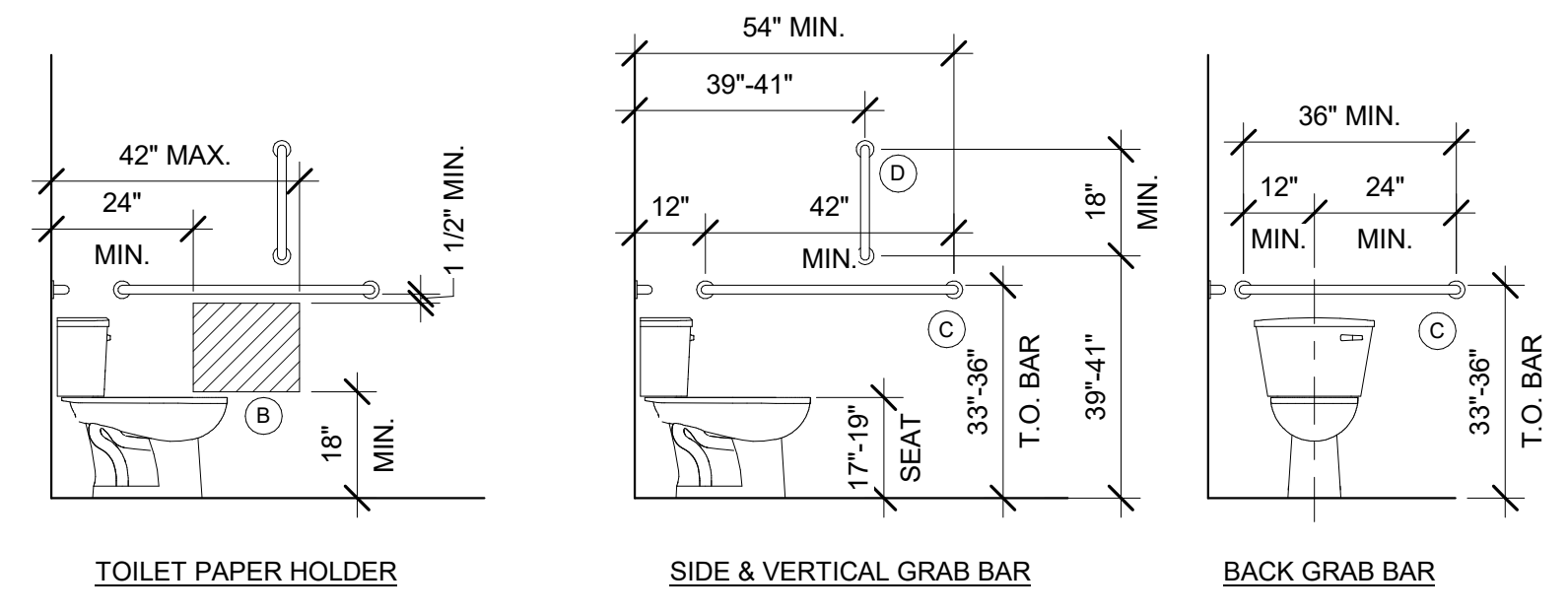
7 EXTERIOR WINDOW DETAILS
1 1/2" = 1'-0"



8 WALL - EXT. PENETRATION
1" = 1'-0"



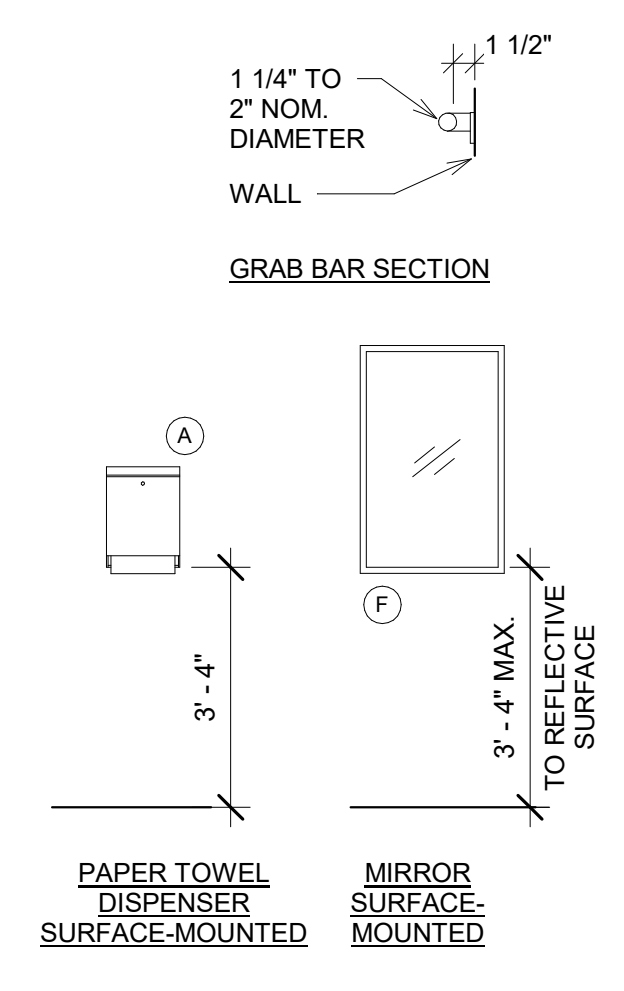
9 WALL - INT. MARRIAGE AT WINDOW
3/4" = 1'-0"



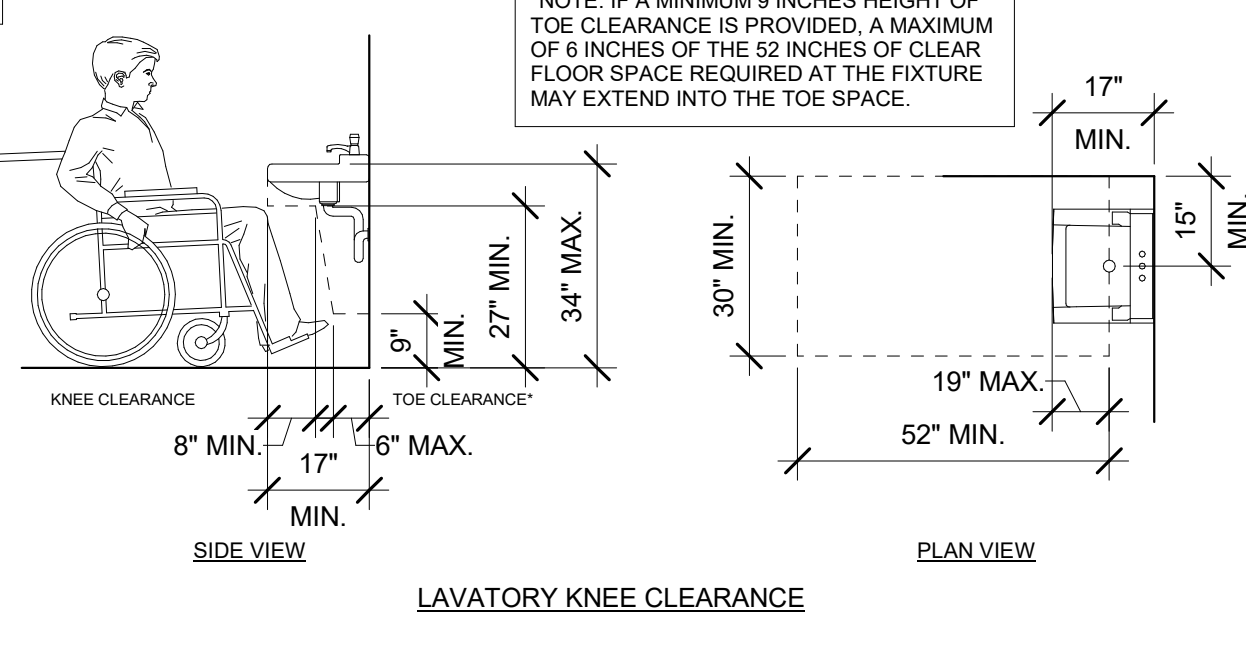
ID	ITEMS
A	PAPER TOWEL DISPENSER (N.I.C.)
B	TOILET PAPER HOLDER
C	HORIZONTAL GRAB BAR
D	VERTICAL GRAB BAR
E	SOAP DISPENSER (N.I.C.)
F	MIRROR
G	TOILET SEAT COVER DISPENSER (N.I.C.)
H	HOOK (N.I.C.)
I	SHOWER SEAT (N.I.C.)

NOTE:
1. DIMENSIONS TO FLOOR AND WALLS ARE TO FACE OF FINISH (U.N.O.)
2. NOT ALL ACCESSORIES MAY BE PRESENT IN THIS PARTICULAR BUILDING.

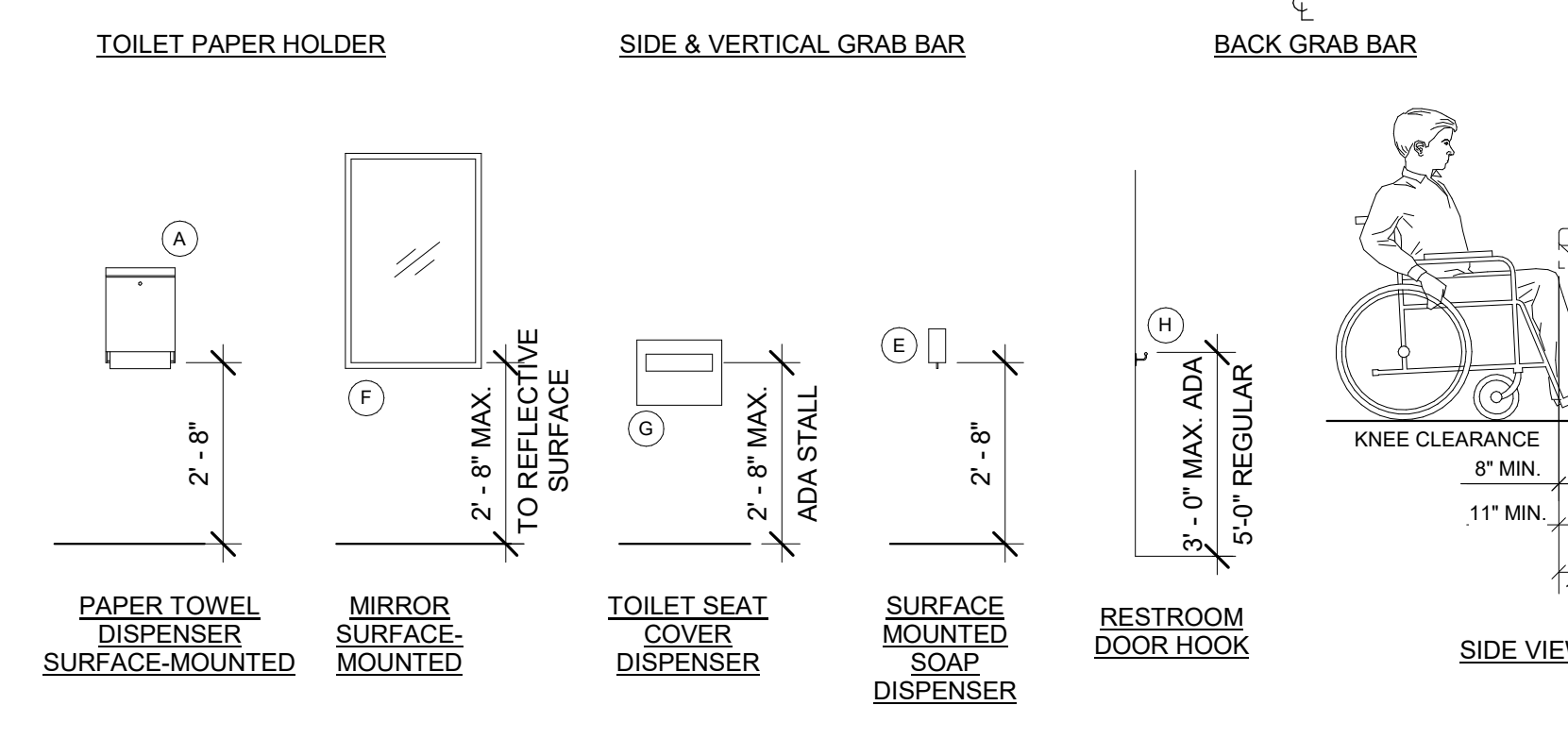
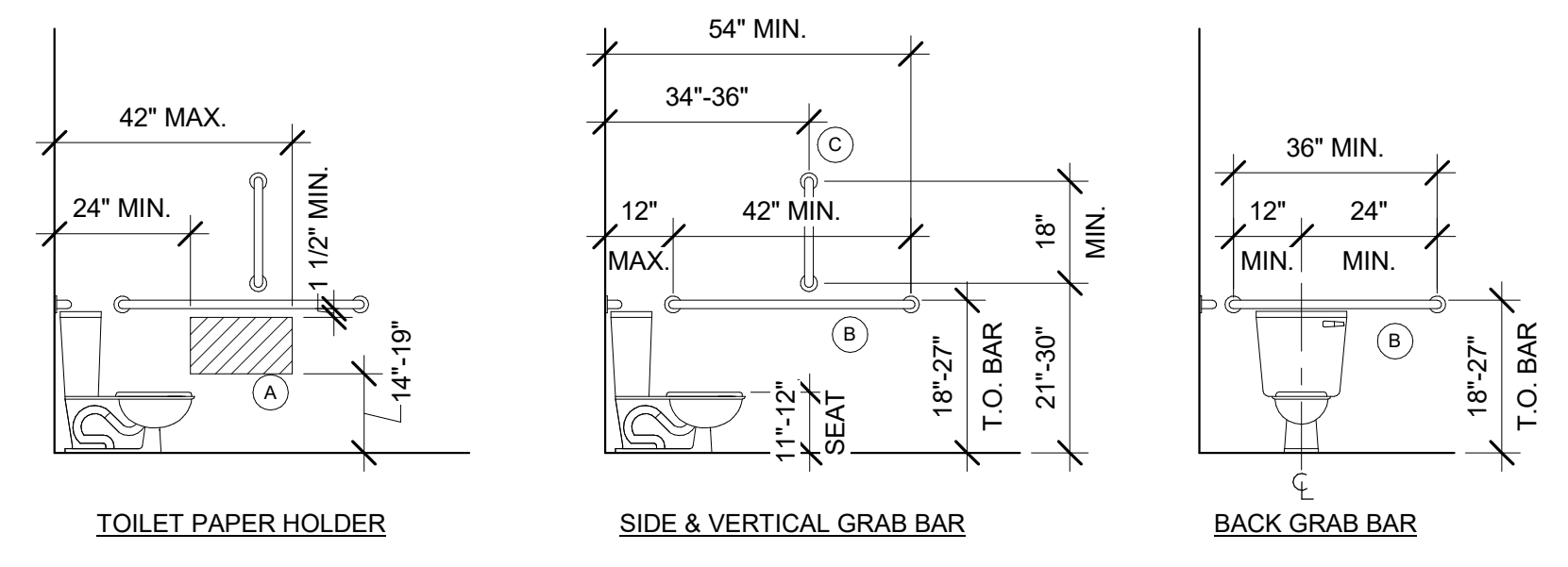
*NOTE: IF A MINIMUM 9 INCHES HEIGHT OF TOE CLEARANCE IS PROVIDED, A MAXIMUM OF 6 INCHES OF THE 52 INCHES OF CLEAR FLOOR SPACE REQUIRED AT THE FIXTURE MAY EXTEND INTO THE TOE SPACE.



10 ADA - MOUNTING HEIGHTS
3/8" = 1'-0"



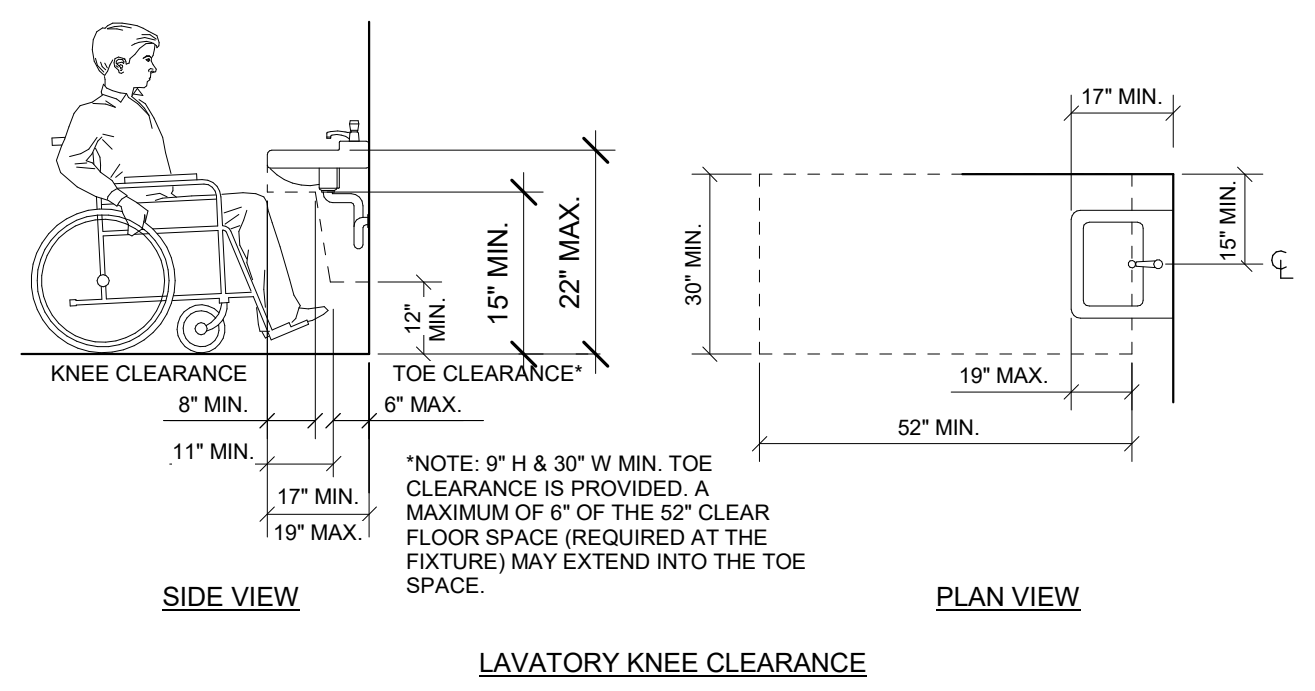
LAVATORY KNEE CLEARANCE



11 ADA MOUNTING HEIGHTS - AGES 3-4
3/8" = 1'-0"

ID	ITEMS
A	PAPER TOWEL DISPENSER (N.I.C.)
B	TOILET TISSUE DISPENSER
C	HORIZONTAL GRAB BAR
D	VERTICAL GRAB BAR
E	SOAP DISPENSER (N.I.C.)
F	MIRROR
G	TOILET SEAT COVER DISPENSER (N.I.C.)
H	HOOK (N.I.C.)
I	SHOWER SEAT (N.I.C.)

NOTE:
1. DIMENSIONS TO FLOOR AND WALLS ARE TO FACE OF FINISH (U.N.O.)
2. NOT ALL ACCESSORIES MAY BE PRESENT IN THIS PARTICULAR BUILDING.



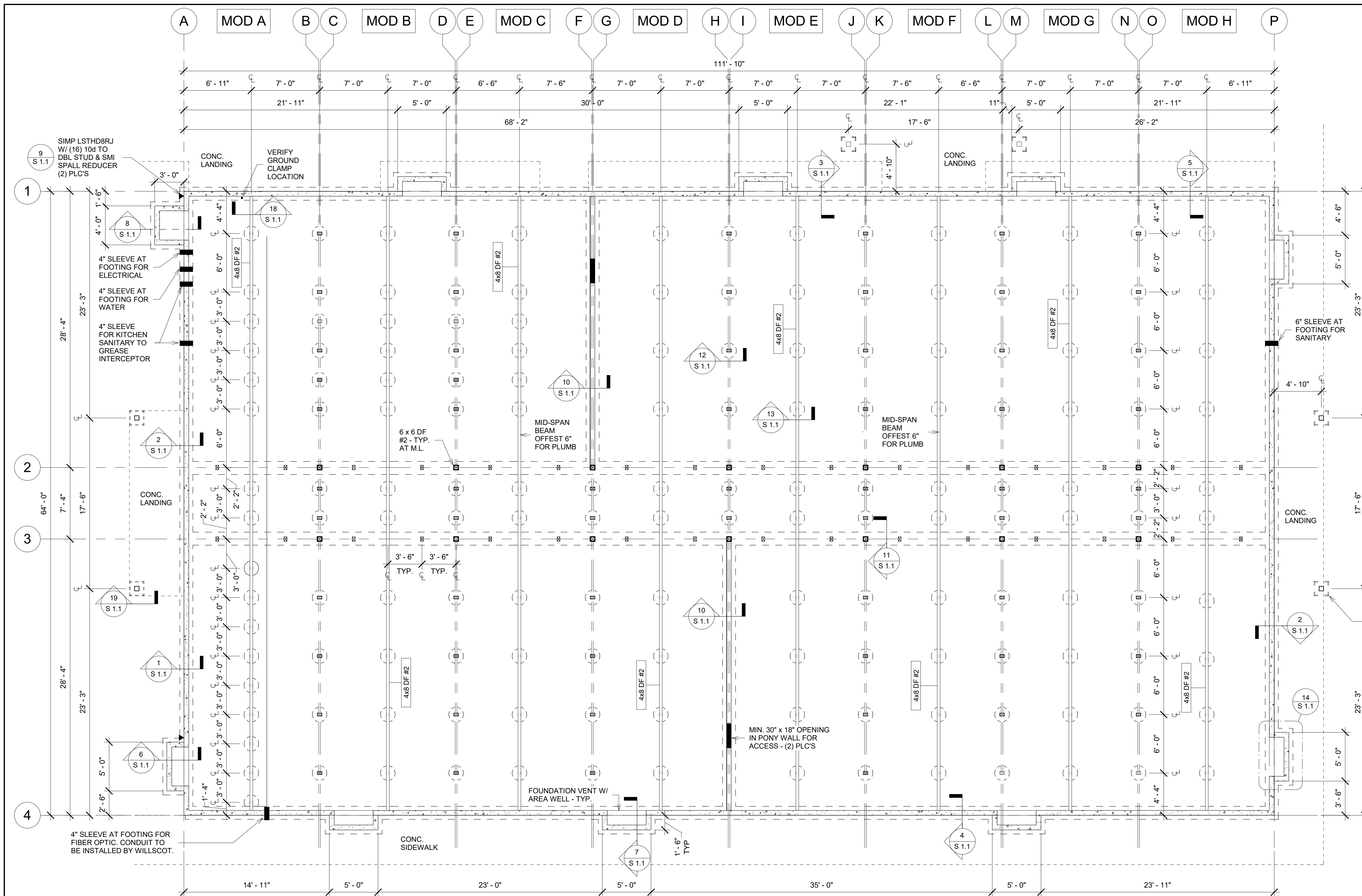
LAVATORY KNEE CLEARANCE

REV.	DESCRIPTION	DATE	BY	REUSE OF DOCUMENTS THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN ARE THE PROPERTY OF MODERN BUILDING SYSTEMS, LLC AND ARE NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER USE OR PROJECT WITHOUT WRITTEN AUTHORIZATION.	SHEET DETAILS	JOB#
					PROJ. 112' x 64' MODULAR CHILDCARE OSU - LITTLE KITS	2023-LB-01
					ADDRESS 1500 SW CHANDLER AVENUE BEND, OR 97702	
					DRW BJ	

PRELIMINARY
NOT FOR
SUBMITTAL

SHEET #
A 5.0

DATE 7/10/24 PRELIM



1 FOUNDATION PLAN
3/16" = 1'-0"

COORDINATE FOUNDATION SLEEVE LOCATIONS FOR UTILITIES, MECHANICAL SYSTEMS, DRAINS AND VENTING

FOUNDATION NOTES

- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS. THIS STRUCTURE SHALL BE ADEQUATELY BRACED FOR WIND OR EARTHQUAKE FORCES AND TEMPORARY FORCES DURING SETTING AND ERECTION UNTIL ALL UNITS HAVE BEEN PERMANENTLY ATTACHED THERETO. REMOVE ORGANIC / SOD UNDER ALL BEARING PADS.
- DESIGN LOADS:

ROOF DEAD LOAD	14 PSF
ROOF SNOW LOAD	25 PSF (+5 PSF SOLAR)
FLOOR DEAD LOAD	10 PSF
FLOOR LIVE LOAD	50 PSF, 100 PSF
WIND LOAD	Lambda = 1.0 Vult = 140 MPH (Vasd = 100 MPH) 3 SECOND GUST - EXP. B
SEISMIC	BEARING WALL SYSTEM: S _s = 1.500, F _a = 1.200 S _{DS} = 1.000 (PER ASCE 7-16 SEC. 12.8.1.3) RISK CATEGORY II I _e = 1.0, SEISMIC DESIGN CATEGORY D, SITE CLASS D
ALLOWABLE BEARING CAPACITY	1,500 PSF AT SOIL
- EXCEPT AS NOTED, DIMENSION LUMBER FOR FOUNDATION SHALL BE HEM-FIR, NO. 2 AND BETTER. TREATED LUMBER SHALL BE ACQ PRESSURE TREATED IN ACCORDANCE WITH AWPA STANDARD U1, USE CATEGORY UC4A, TO A MINIMUM RETENTION OF 0.40 PCF. AT PIECES IN CONTACT WITH GROUND, SAWN END GRAIN SHALL BE FIELD TREATED WITH 2% MIN. CONCENTRATION COPPER NAPHTHENATE. TREATED PLATE STOCK SHALL BE GOOD QUALITY AND SHALL NOT CONTAIN EXCESSIVE SPLITS, CHECKS OR WANE. 2 x 4 FRAMING SHALL BE HEM-FIR, STANDARD OR BETTER. TREATED 2 x 4 FRAMING SHALL MEET THE REQUIREMENTS SPECIFIED ABOVE.
- ALL FASTENERS TO BE HOT DIPPED GALVANIZED (HDG) OR EQUAL AT P.T. MEMBERS.
- VENT CRAWL SPACE AS SHOWN ON FOUNDATION PLAN. INSTALL 6 MIL. VAPOR BARRIER ON GROUND IN ENTIRE CRAWL SPACE. LAP VAPOR BARRIER JOINTS MIN 12".
- CONNECT STORM WATER FROM ROOF GUTTERS AND DOWNSPOUTS AND DIRECT AWAY FROM BUILDING PAD TO AN APPROVED DRAINAGE SYSTEM.
- FOUNDATION PLANS AND DETAILS ARE NOT REVIEWED BY BCD OR L&I, EXCEPT FOR THE SUITABILITY OF THE DESIGN TO SUPPORT THE MODULAR BUILDING. APPROVAL AND INSPECTION OF THE FOUNDATION SYSTEM IS THE JURISDICTION OF THE LOCAL BUILDING OFFICIAL.
- CONCRETE STRENGTH: F_c = 2,500 PSI AT FOUNDATION, 4,000 PSI AT FLATWORK
- REINFORCEMENT STEEL: GRADE 60, ASTM A615

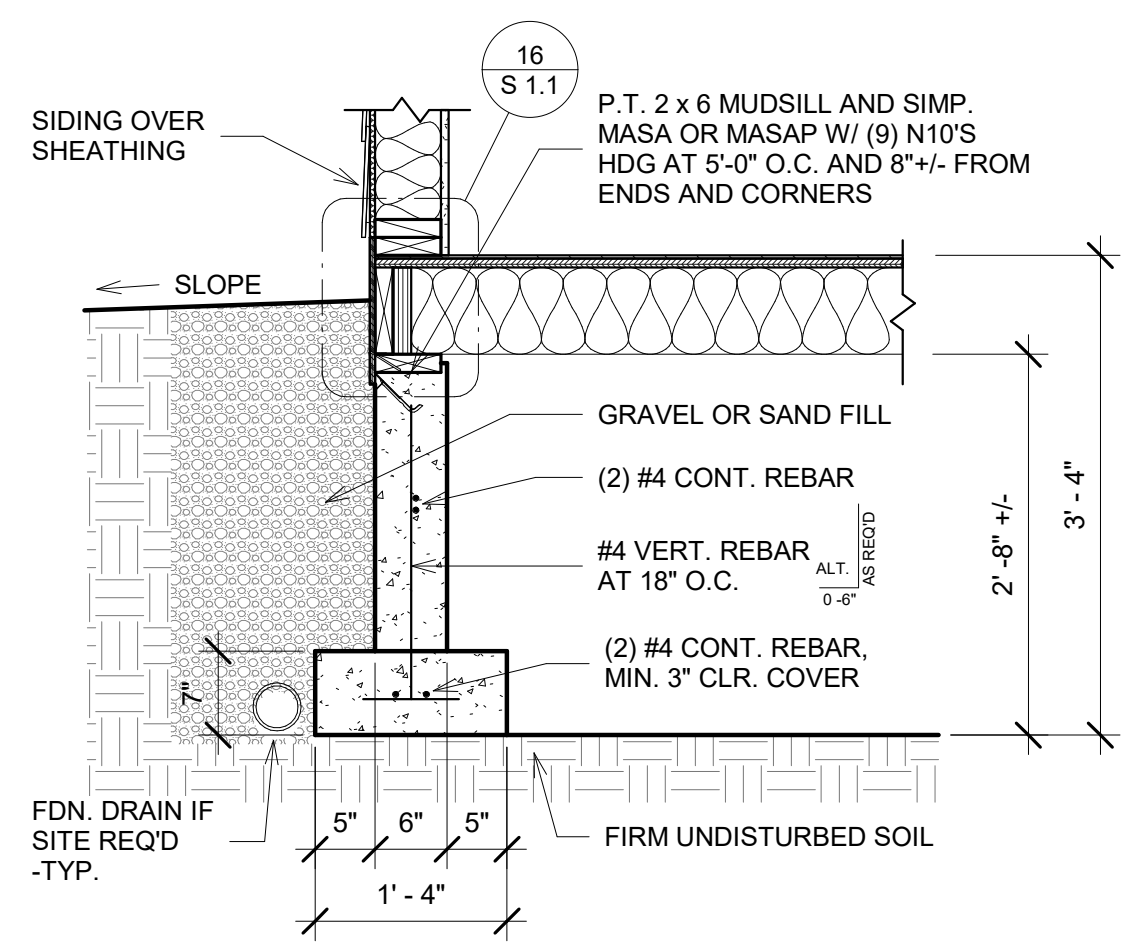
PRELIMINARY
NOT FOR
SUBMITTAL

REV.	DESCRIPTION	DATE	BY

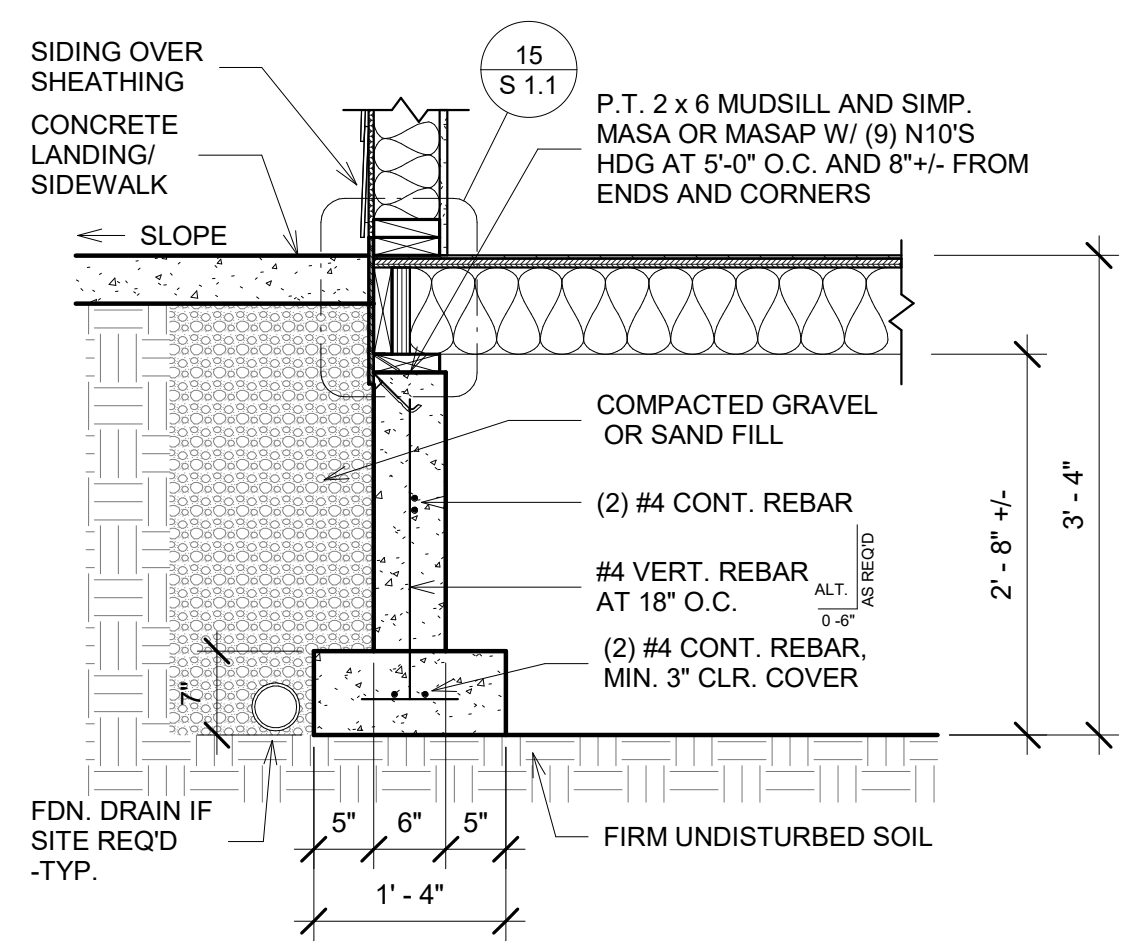
REUSE OF DOCUMENTS THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN ARE THE PROPERTY OF MODERN BUILDING SYSTEMS LLC AND ARE NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER USE OR PROJECT WITHOUT WRITTEN AUTHORIZATION.



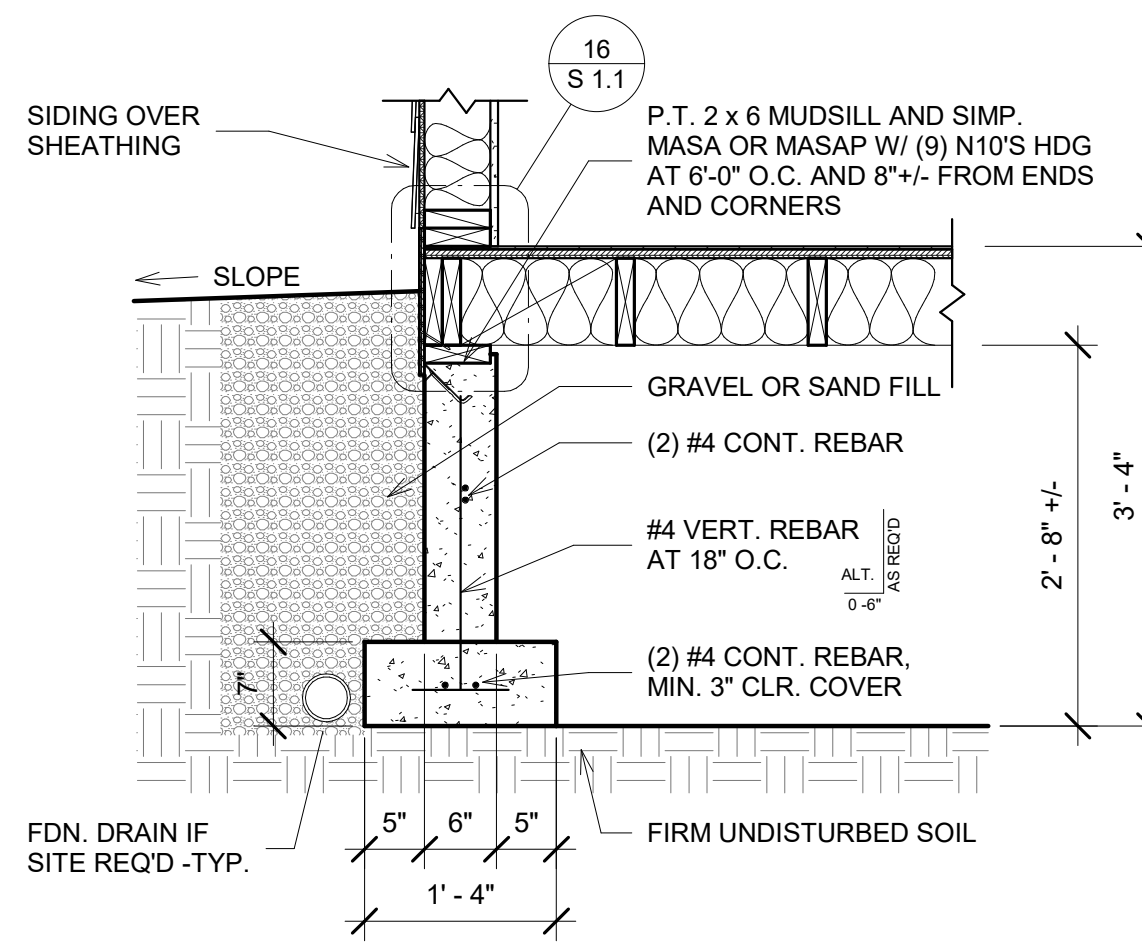
SHEET FOUNDATION PLAN & NOTES		JOB# 2023-LB-01
PROJ.	112' x 64' MODULAR CHILDCARE	SHEET # S 1.0
OSU - LITTLE KITS		DATE 7/10/24 PRELIM
ADDRESS 1500 SW CHANDLER AVENUE BEND, OR 97702		DRW BJ



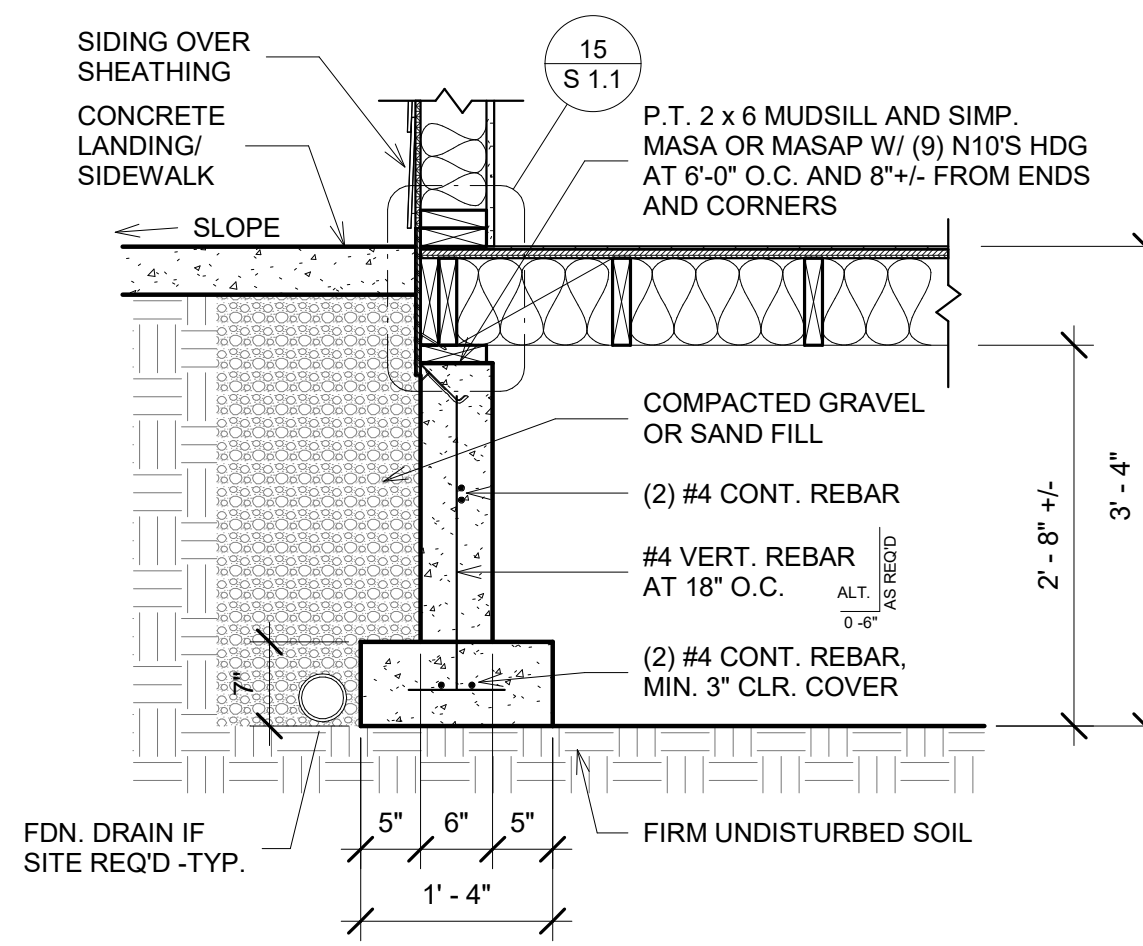
1 FOOTING - MOD SIDEWALL
3/4" = 1'-0"



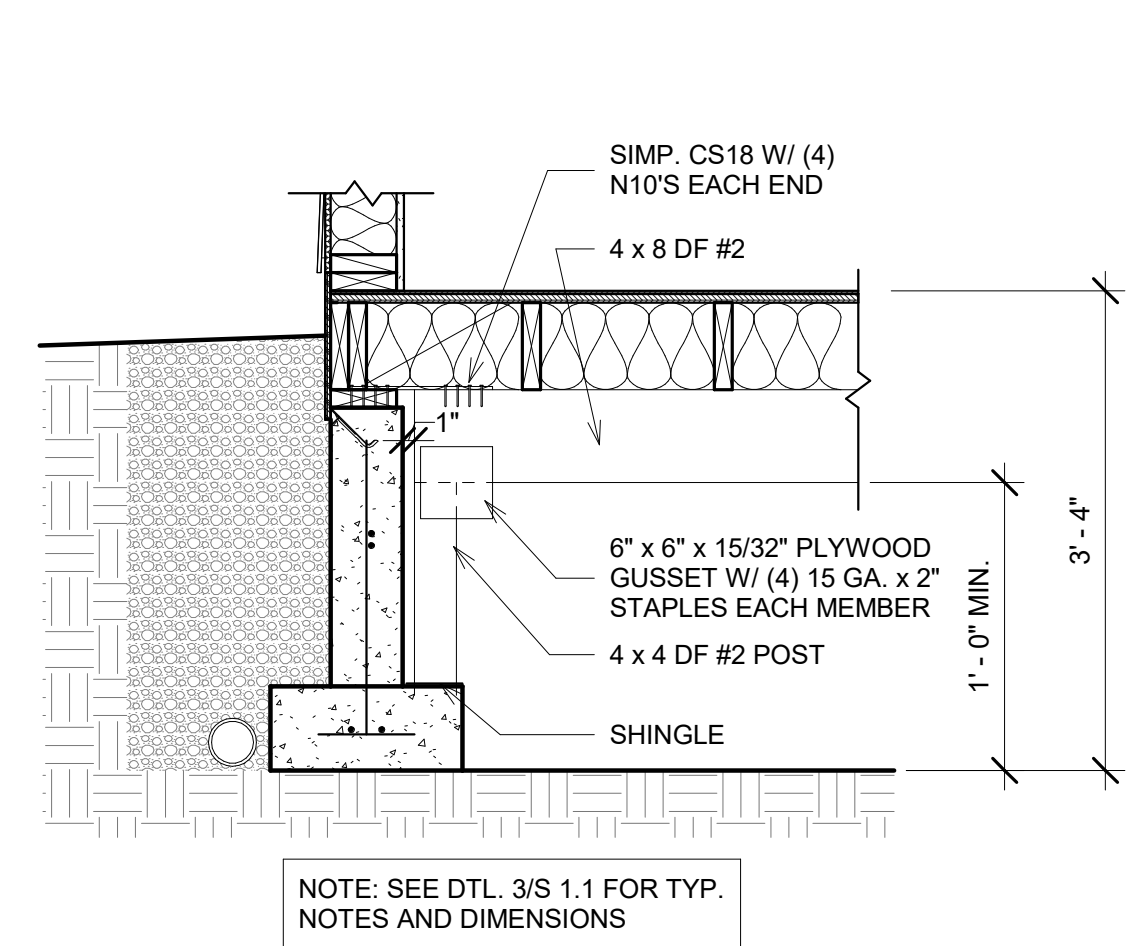
2 FOOTING - MOD SIDEWALL AT CONCRETE
3/4" = 1'-0"



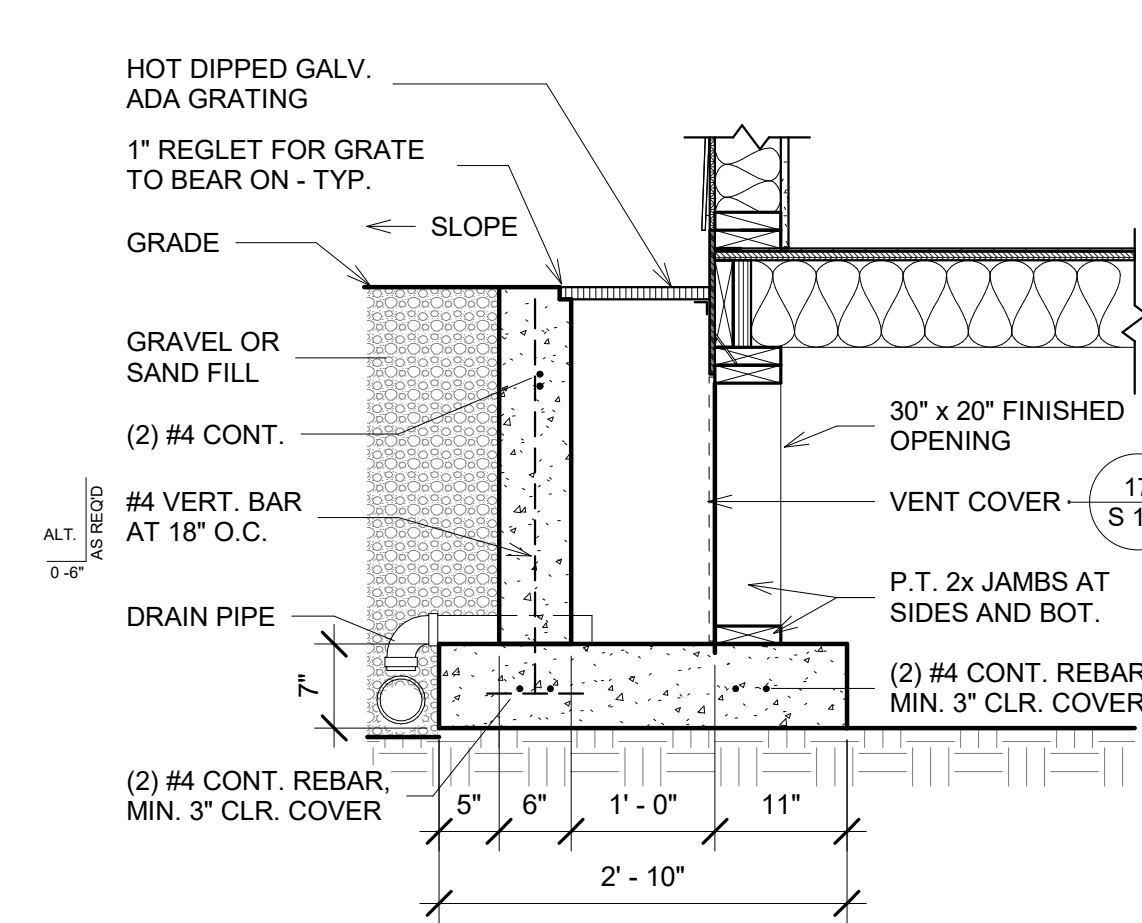
3 FOOTING - MOD ENDWALL
3/4" = 1'-0"



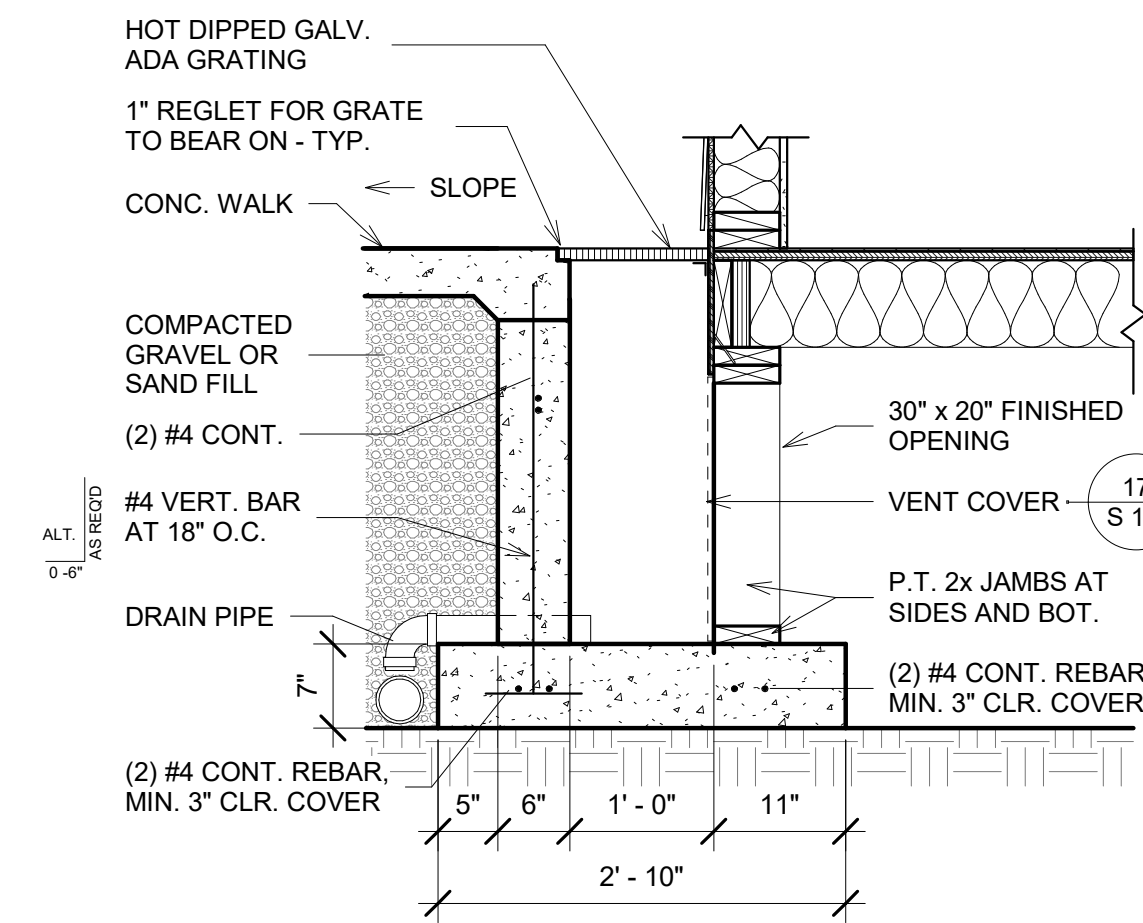
4 FOOTING - MOD ENDWALL AT CONCRETE
3/4" = 1'-0"



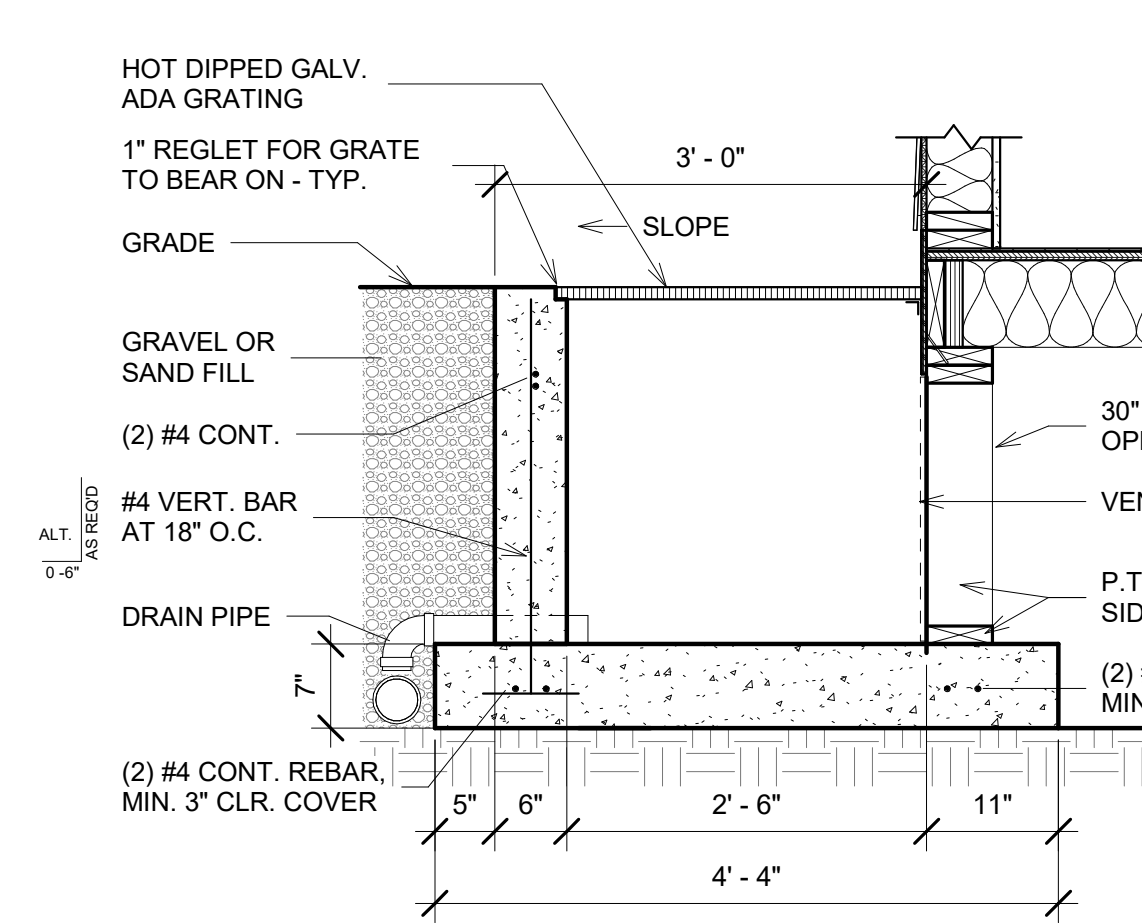
5 FOOTING - MOD ENDWALL AT BEAMS
3/4" = 1'-0"



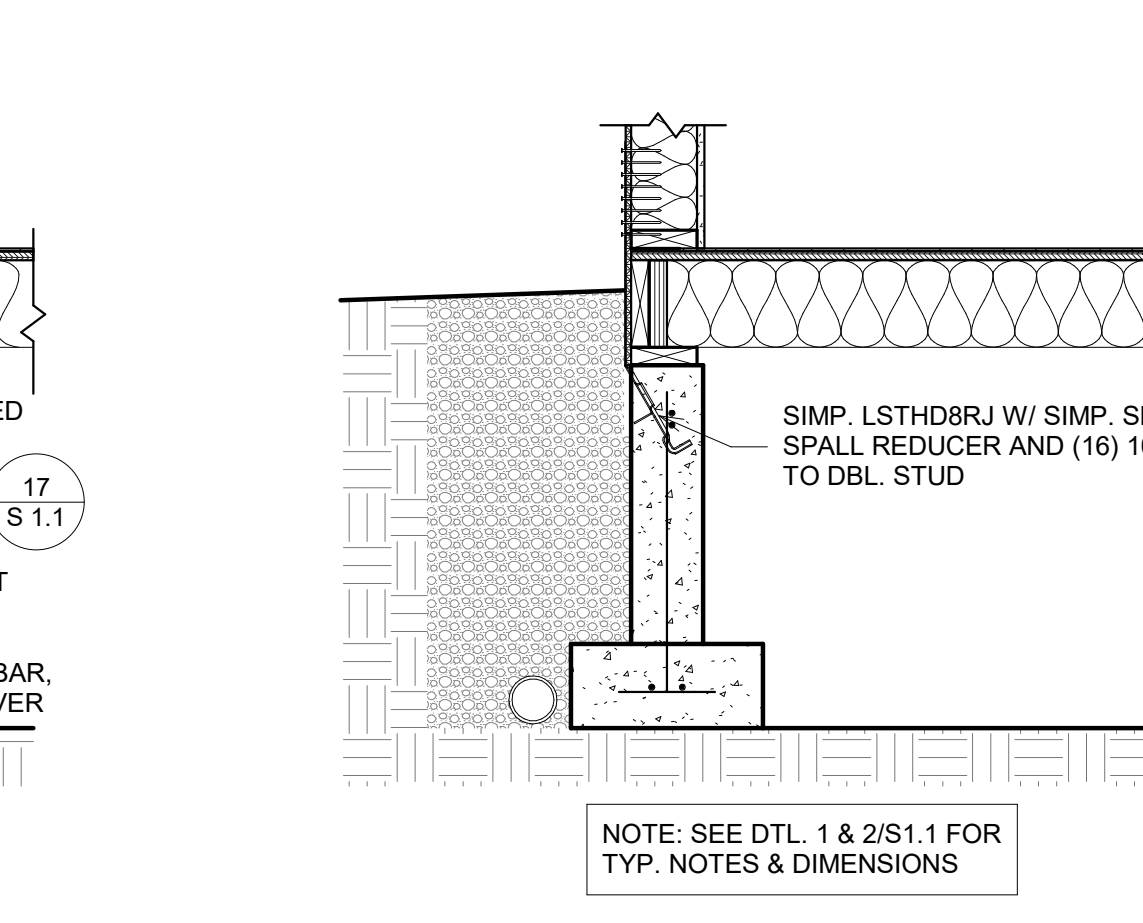
6 FOOTING - FOUNDATION VENT
3/4" = 1'-0"



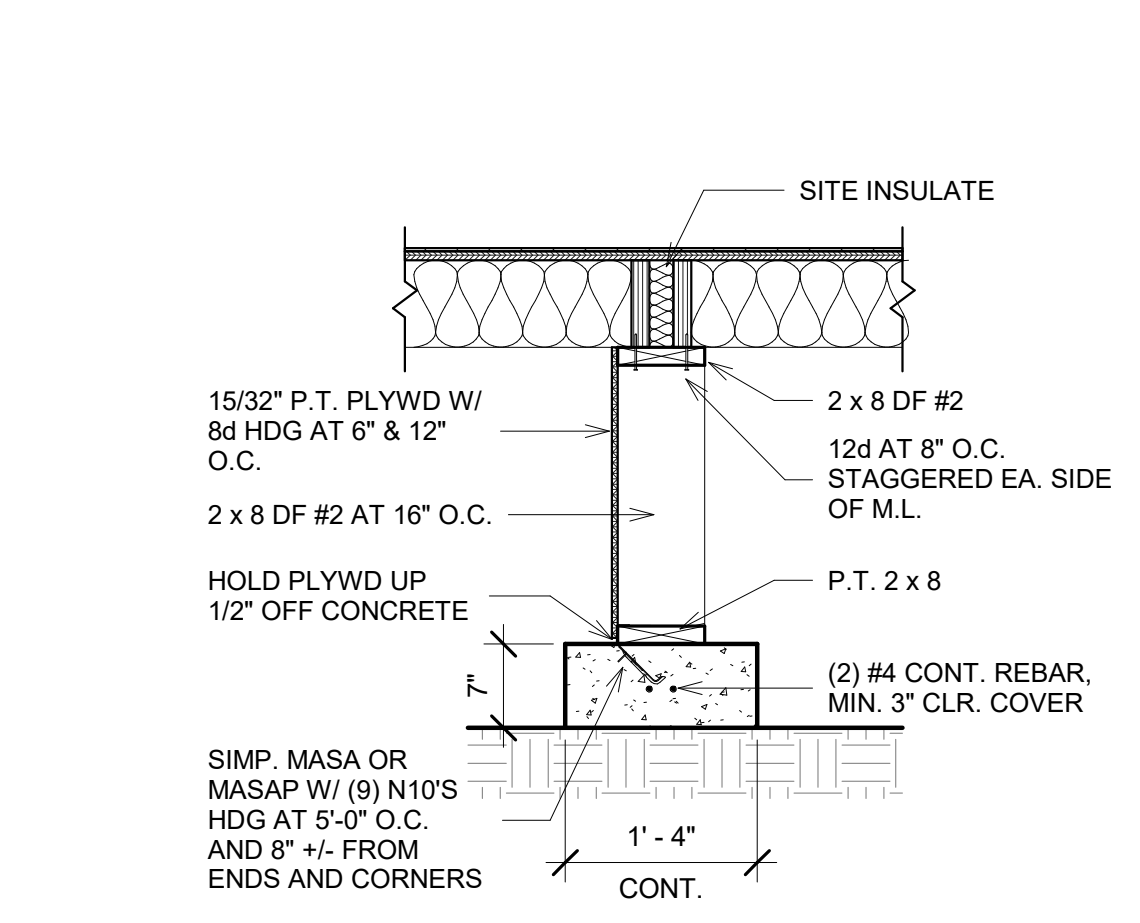
7 FOOTING - FOUNDATION VENT AT CONCRETE
3/4" = 1'-0"



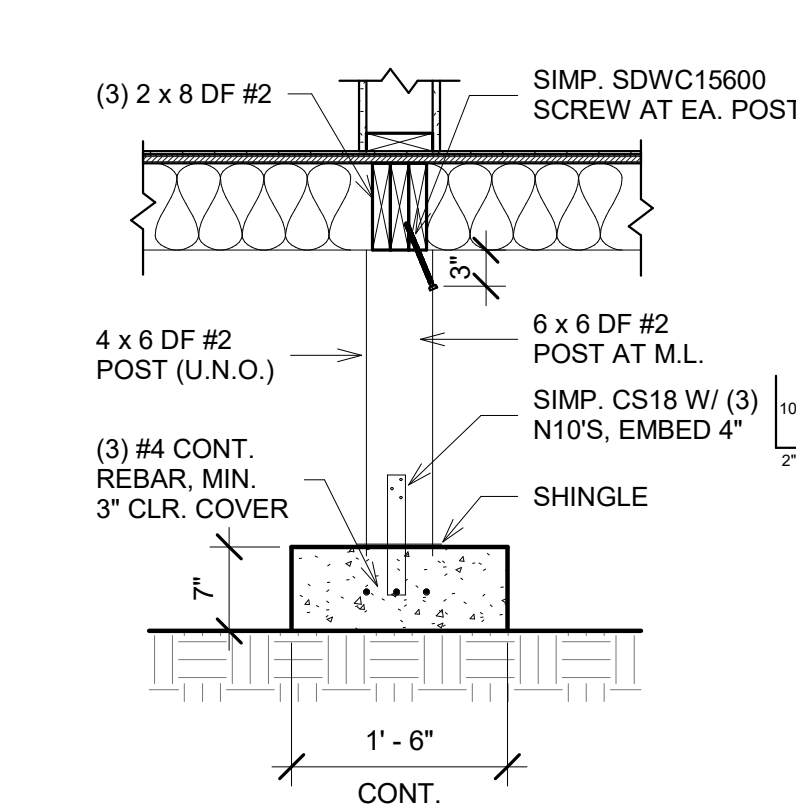
8 FOOTING - CRAWLSPACE ACCESS
3/4" = 1'-0"



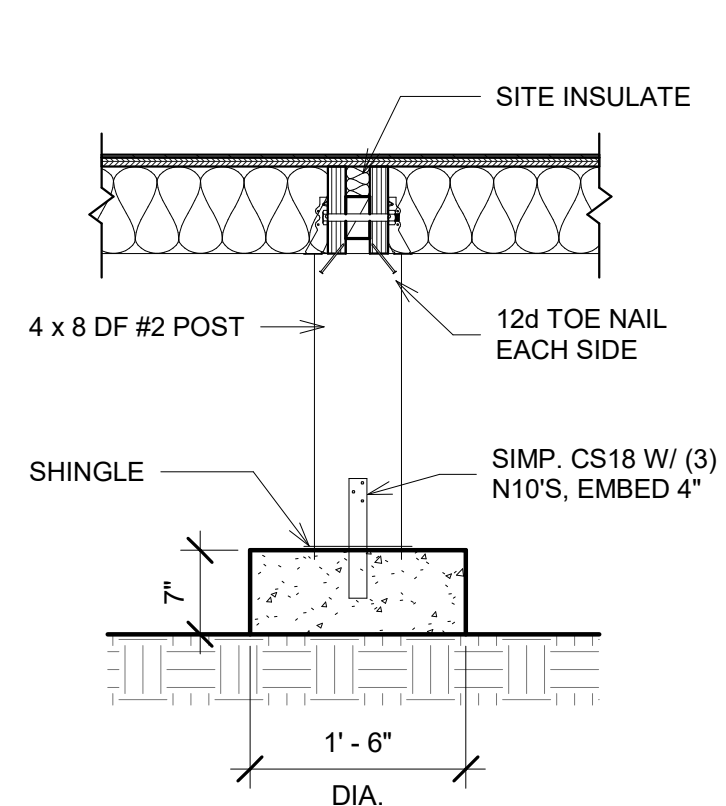
9 FOOTING - LSTHD HOLD DOWN
3/4" = 1'-0"



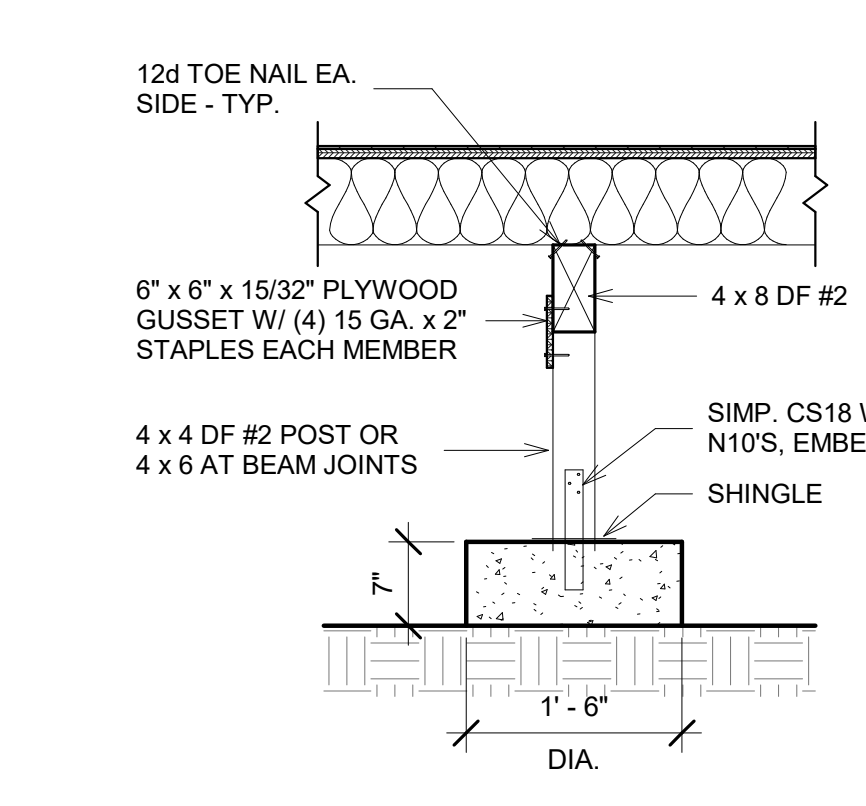
10 FOOTING - PONY WALL AT MARRIAGE (GRIDS F/G & H/I)
3/4" = 1'-0"



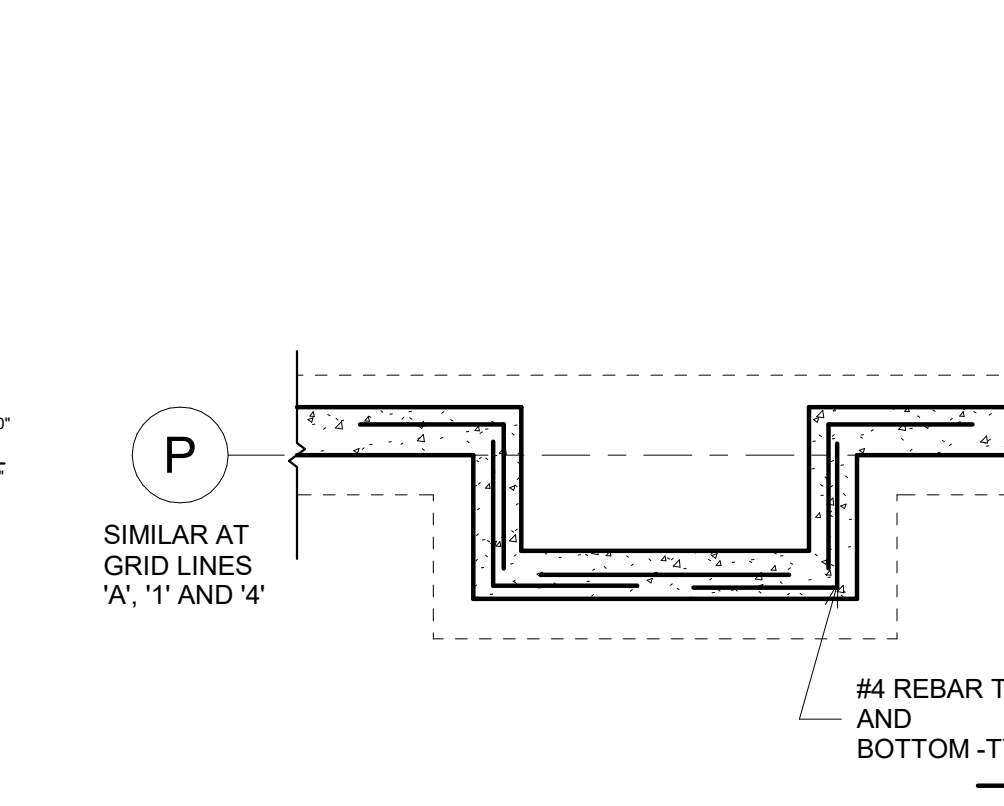
11 FOOTING - BEARING WALL
3/4" = 1'-0"



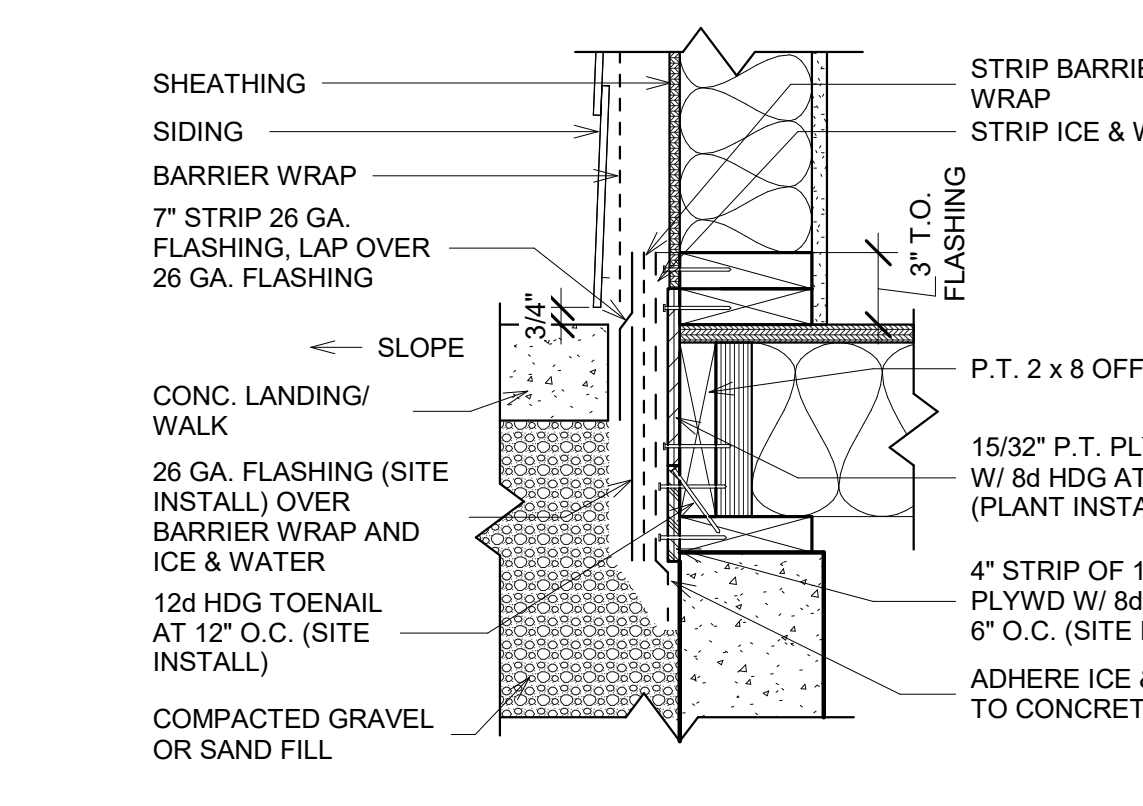
12 FOOTING - MOD MARRIAGE
3/4" = 1'-0"



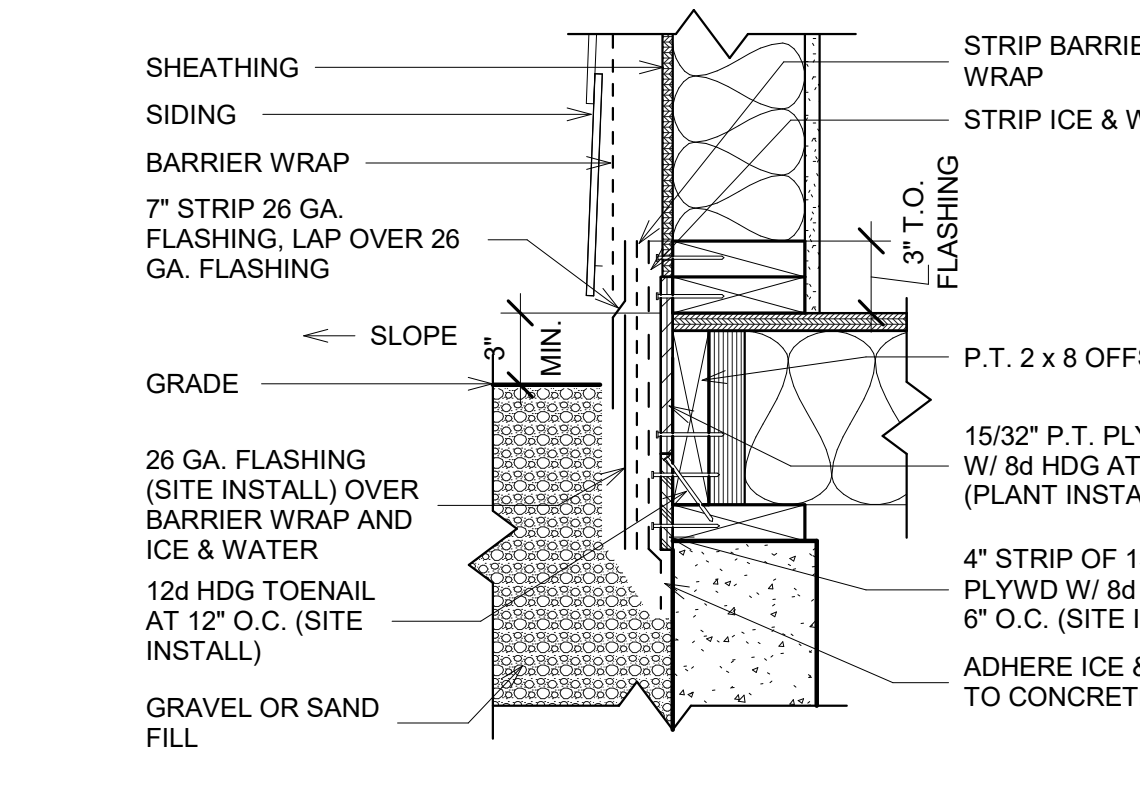
13 FOOTING - MID-SPAN
3/4" = 1'-0"



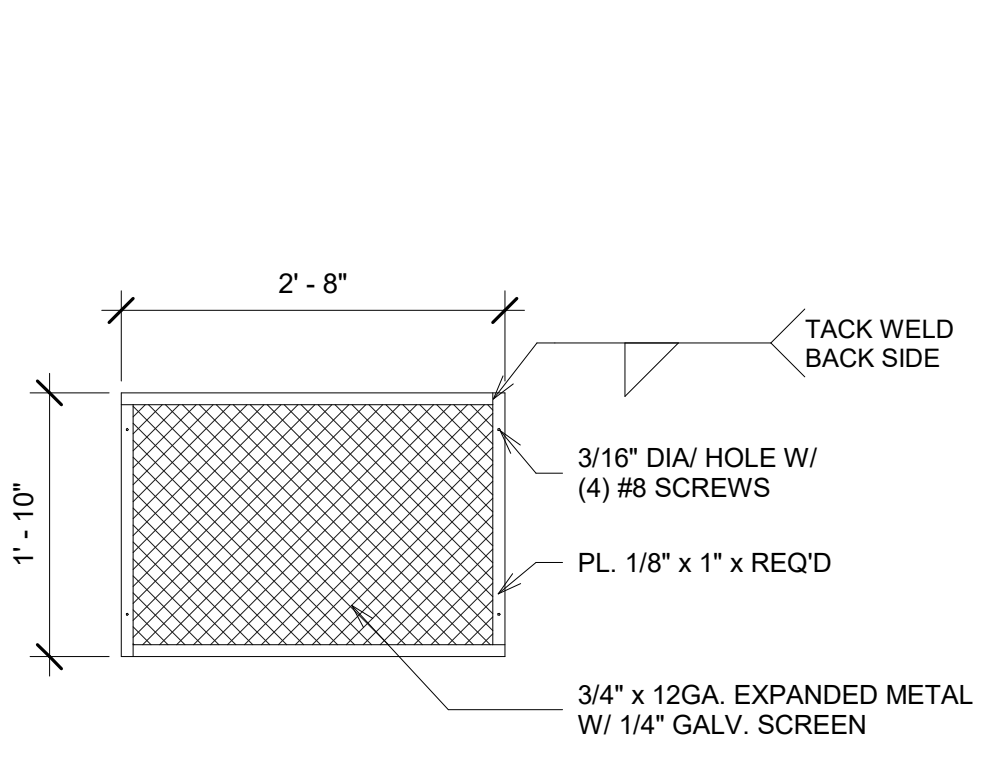
14 FOOTING - DOWEL BAR LAYOUT
1/2" = 1'-0"



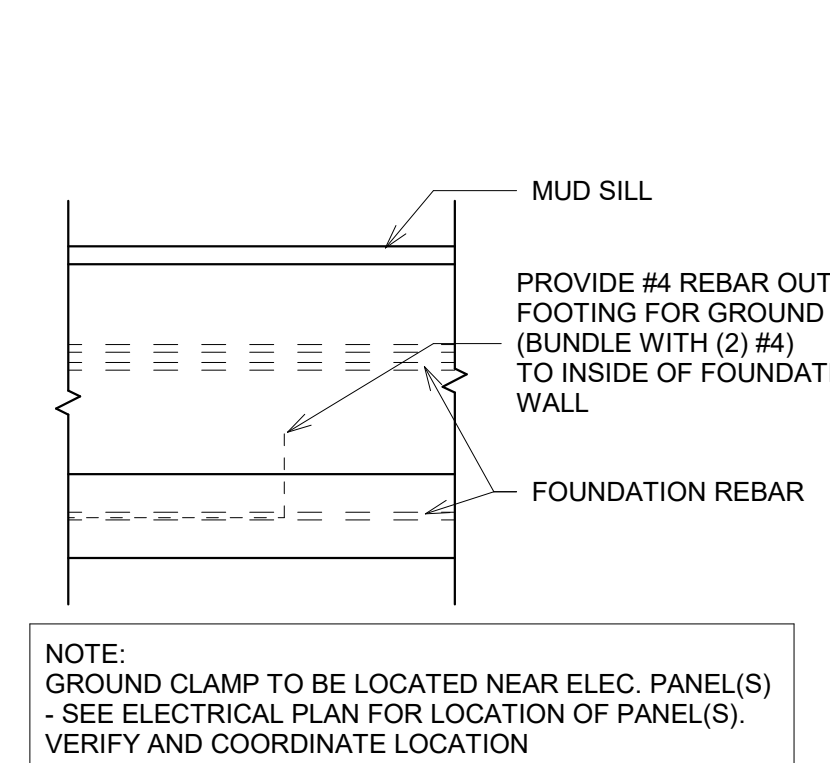
15 FDN - FLASHING AT LANDING
1 1/2" = 1'-0"



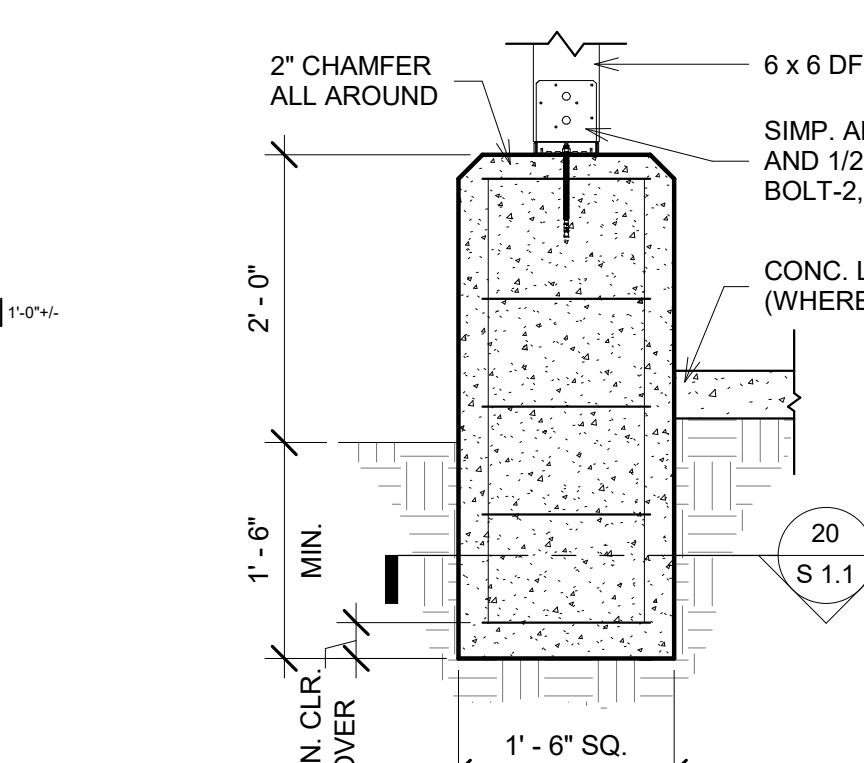
16 FDN - FLASHING AT GRADE
1 1/2" = 1'-0"



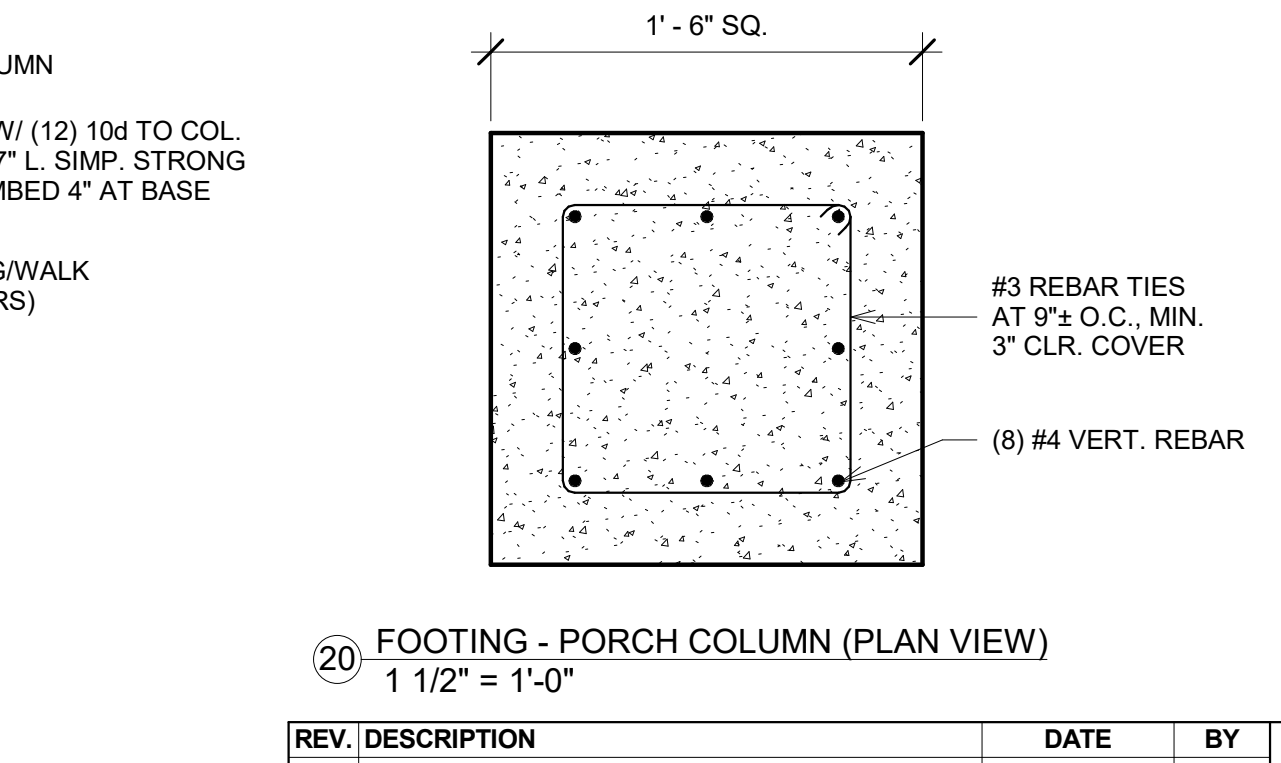
17 FDN - VENT COVER
3/4" = 1'-0"



18 FOOTING - GROUND CLAMP
3/4" = 1'-0"



19 FOOTING - PORCH COLUMN
3/4" = 1'-0"



20 FOOTING - PORCH COLUMN (PLAN VIEW)
1 1/2" = 1'-0"

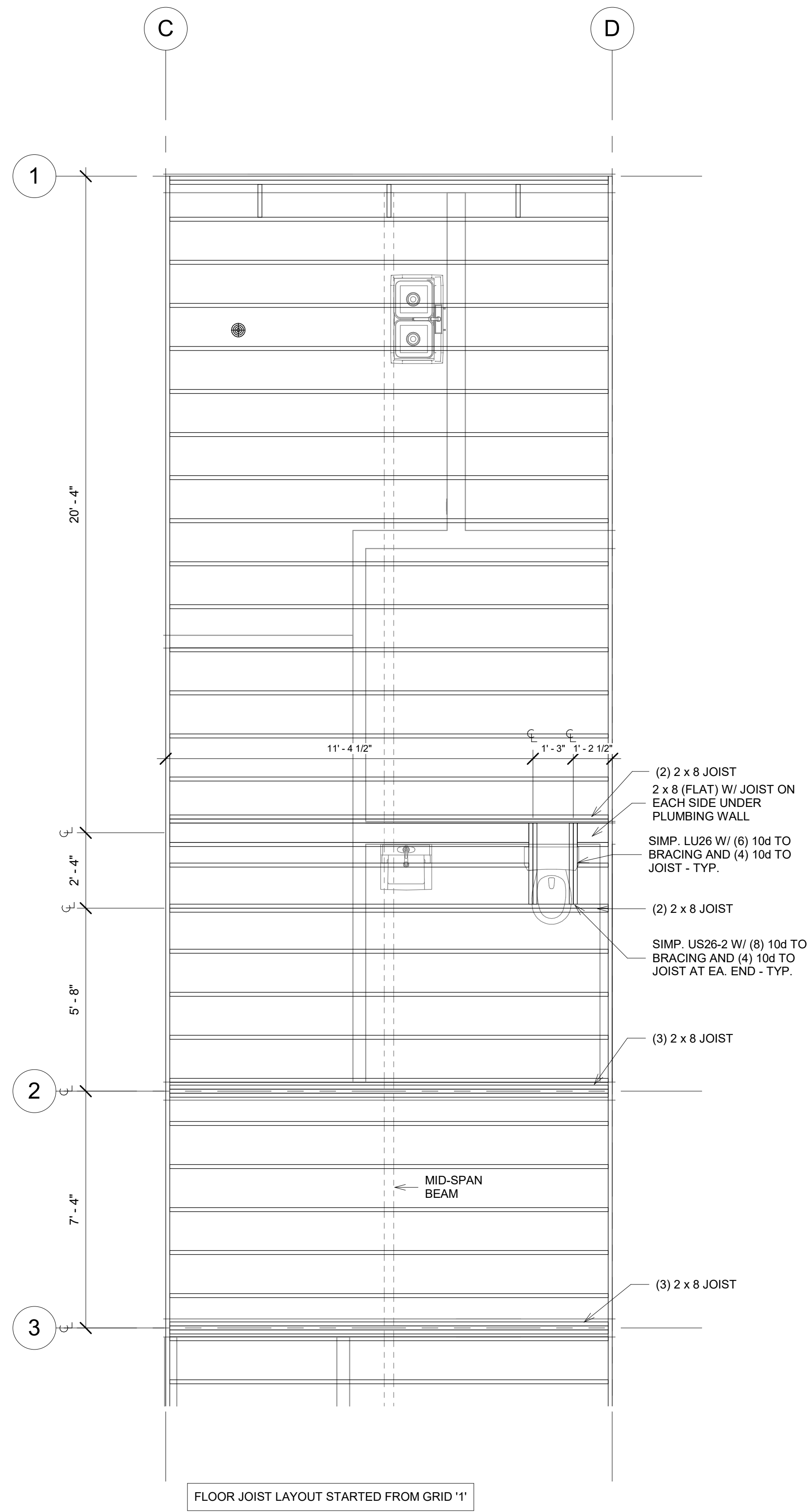
REV.	DESCRIPTION	DATE	BY

REUSE OF DOCUMENTS THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN ARE THE PROPERTY OF MODERN BUILDING SYSTEMS, LLC AND ARE NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER USE OR PROJECT WITHOUT WRITTEN AUTHORIZATION.

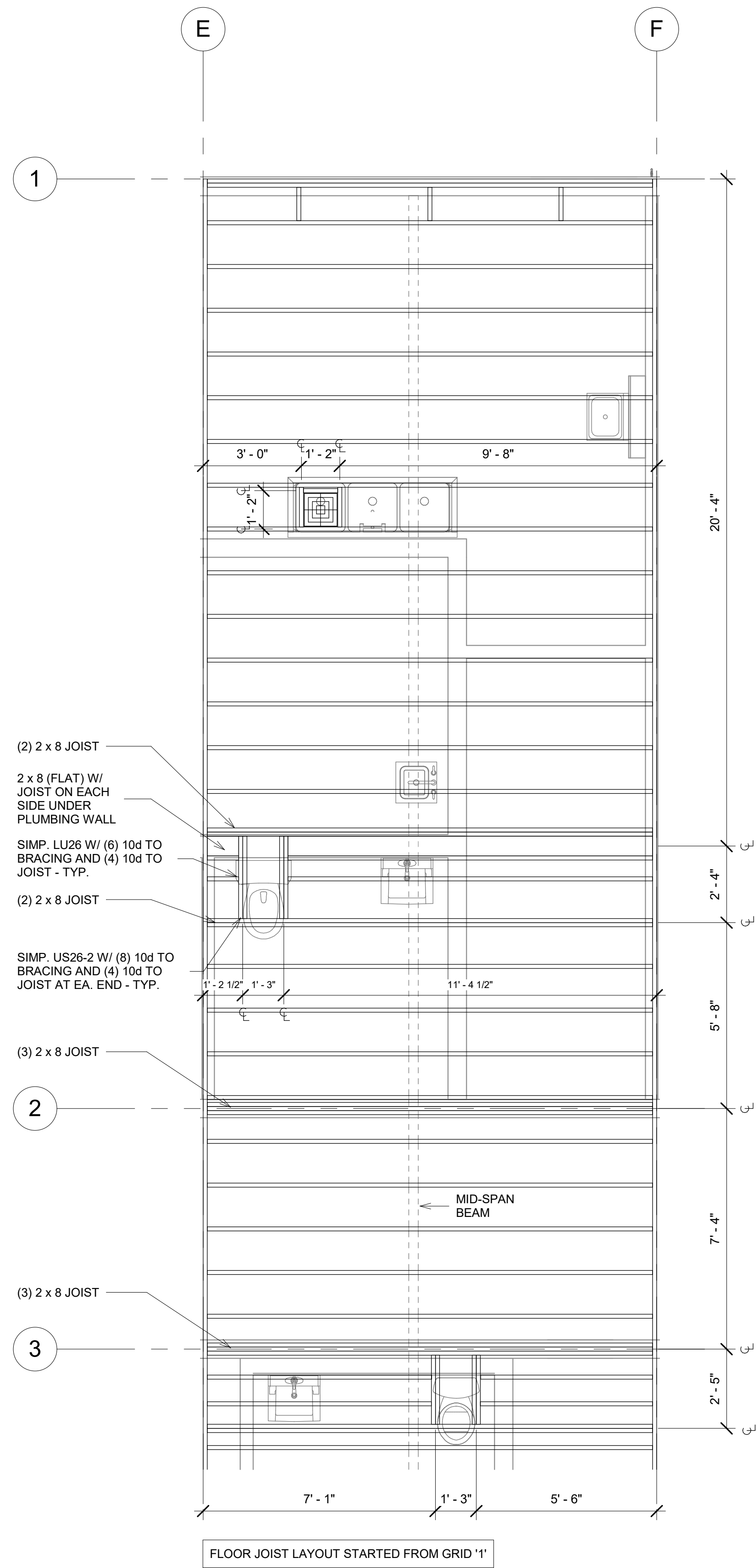


SHEET FOUNDATION DETAILS		JOB# 2023-LB-01
PROJ.	112' x 64' MODULAR CHILDCARE	SHEET # S 1.1
OSU - LITTLE KITS		DATE 7/10/24 PRELIM
ADDRESS	1500 SW CHANDLER AVENUE BEND, OR 97702	DRW BJ

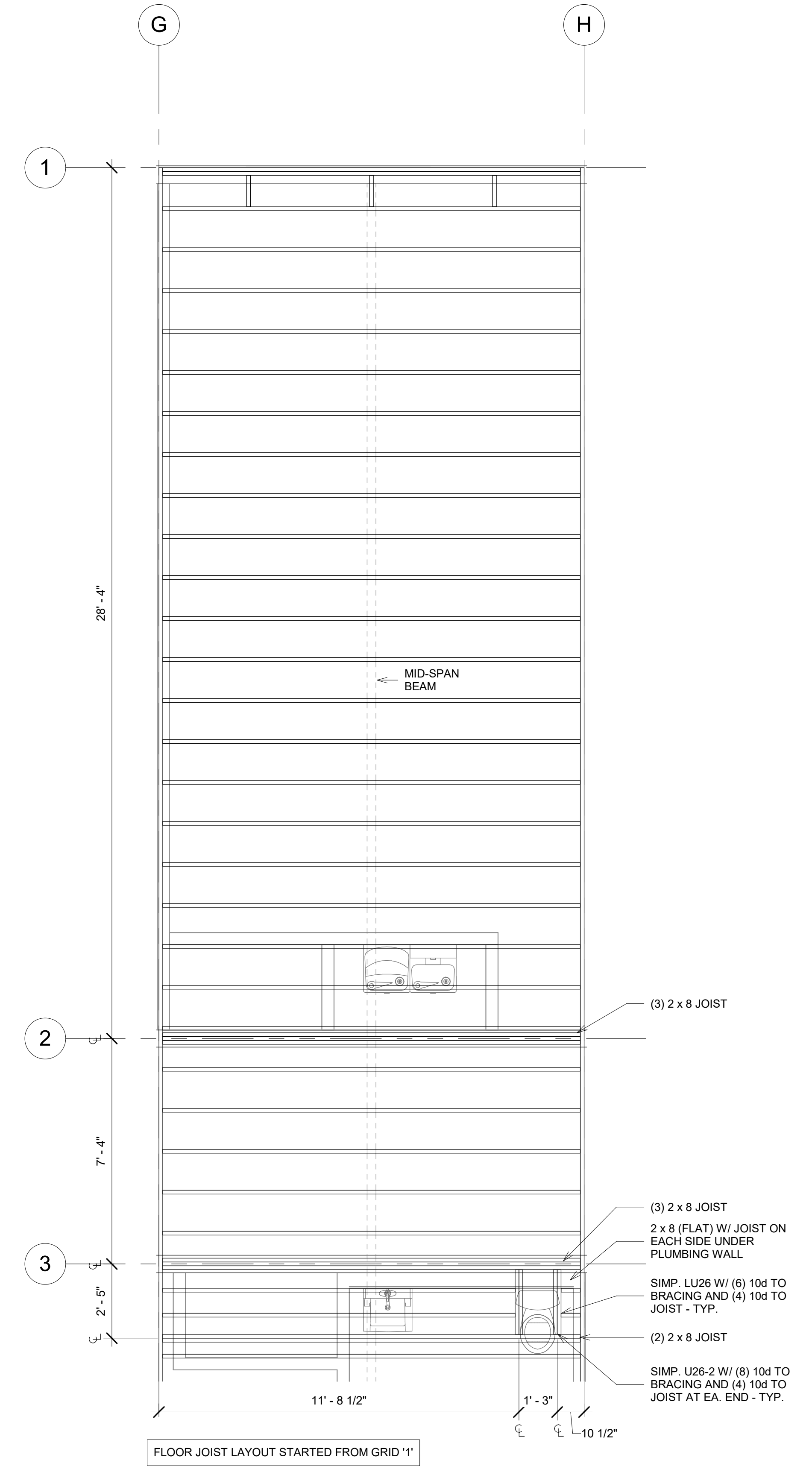
PRELIMINARY
NOT FOR
SUBMITTAL



1 FLOOR FRAMING PLAN (MOD B)
3/8" = 1'-0"



2 FLOOR FRAMING PLAN (MOD C)
3/8" = 1'-0"

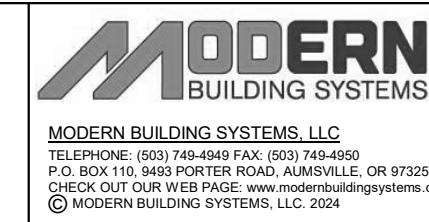


3 FLOOR FRAMING PLAN (MOD D)
3/8" = 1'-0"

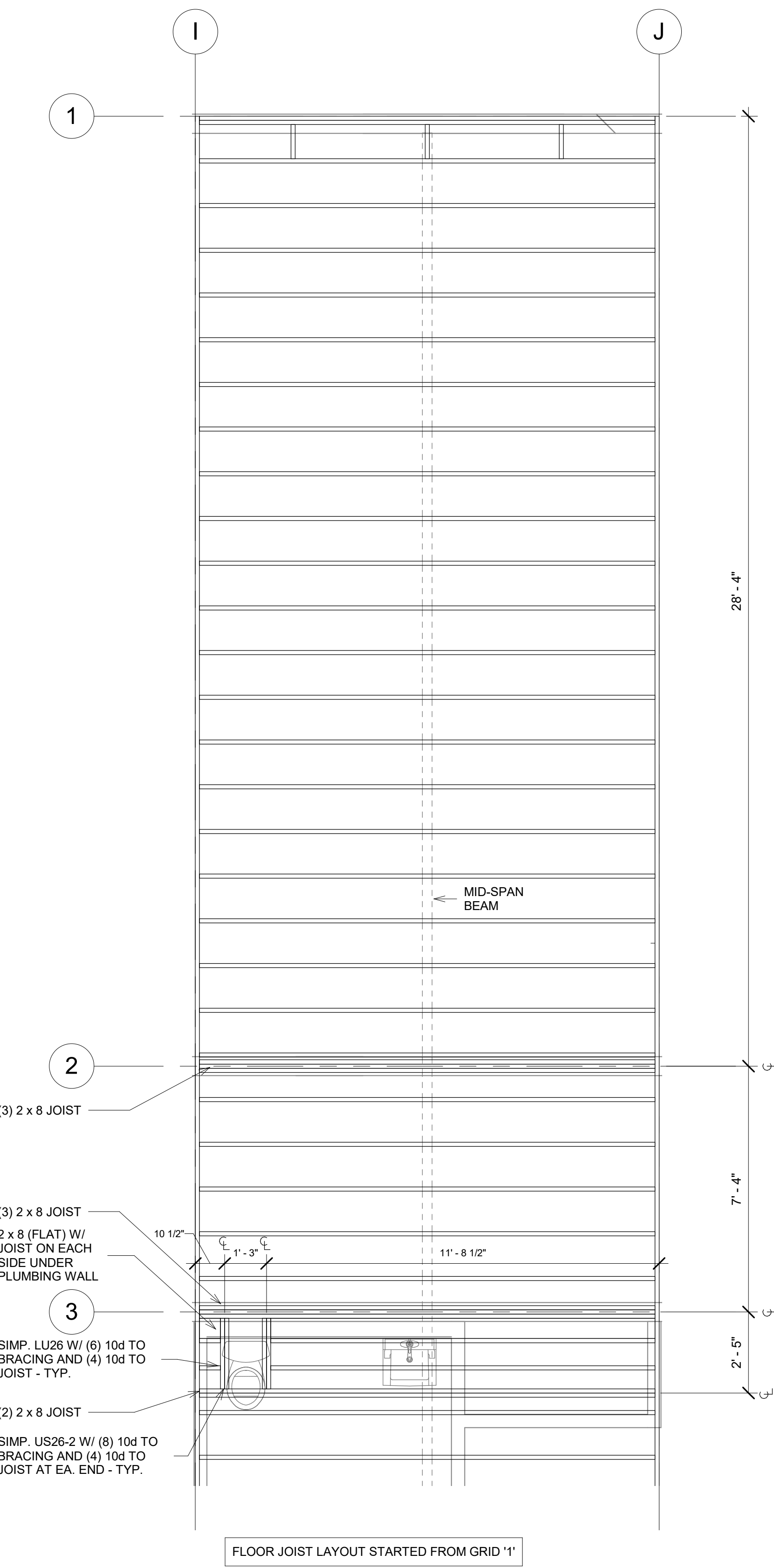
PRELIMINARY
NOT FOR
SUBMITTAL

REV.	DESCRIPTION	DATE	BY

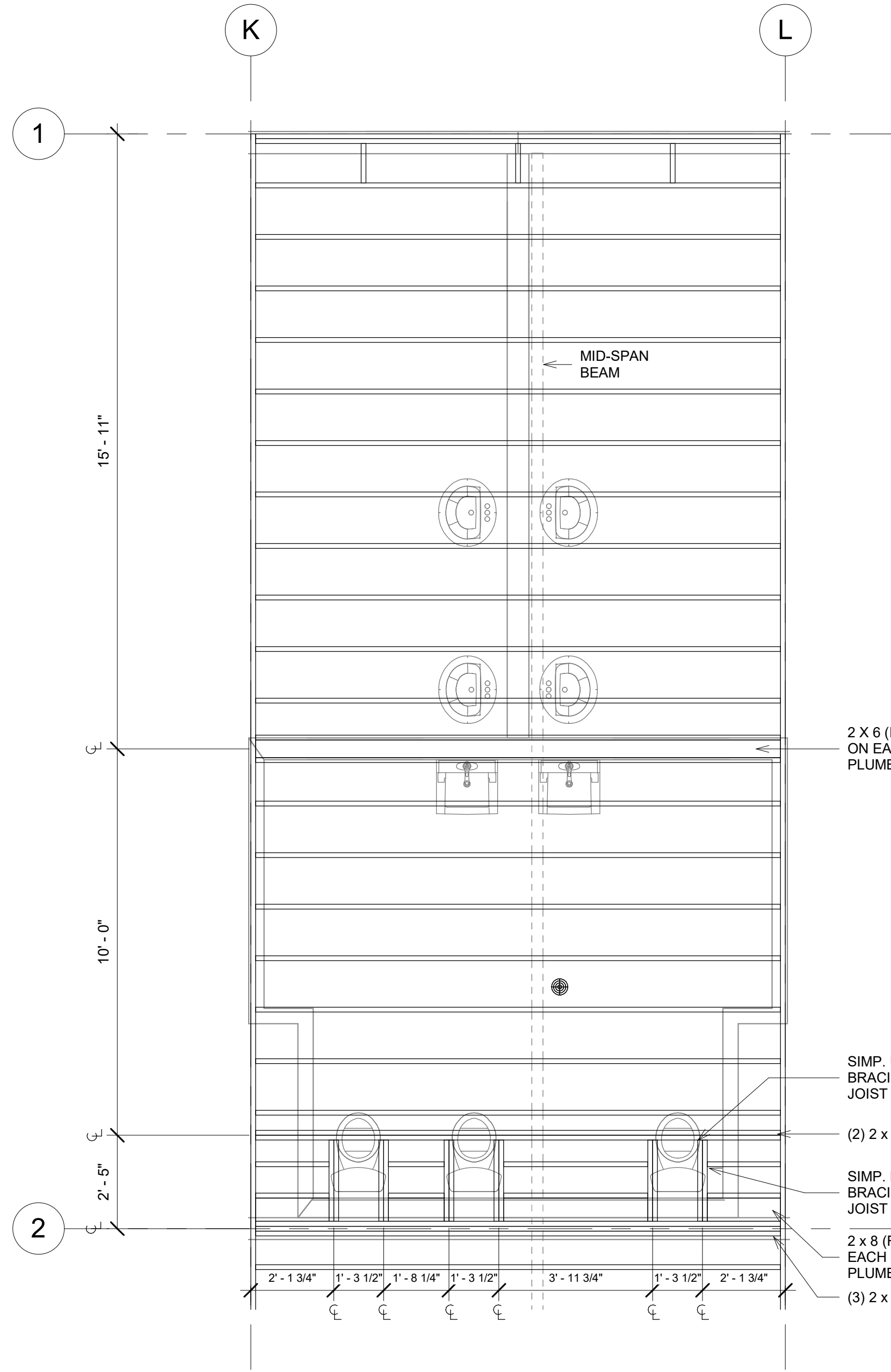
REUSE OF DOCUMENTS THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN ARE THE PROPERTY OF MODERN BUILDING SYSTEMS, LLC AND ARE NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER USE OR PROJECT WITHOUT WRITTEN AUTHORIZATION.



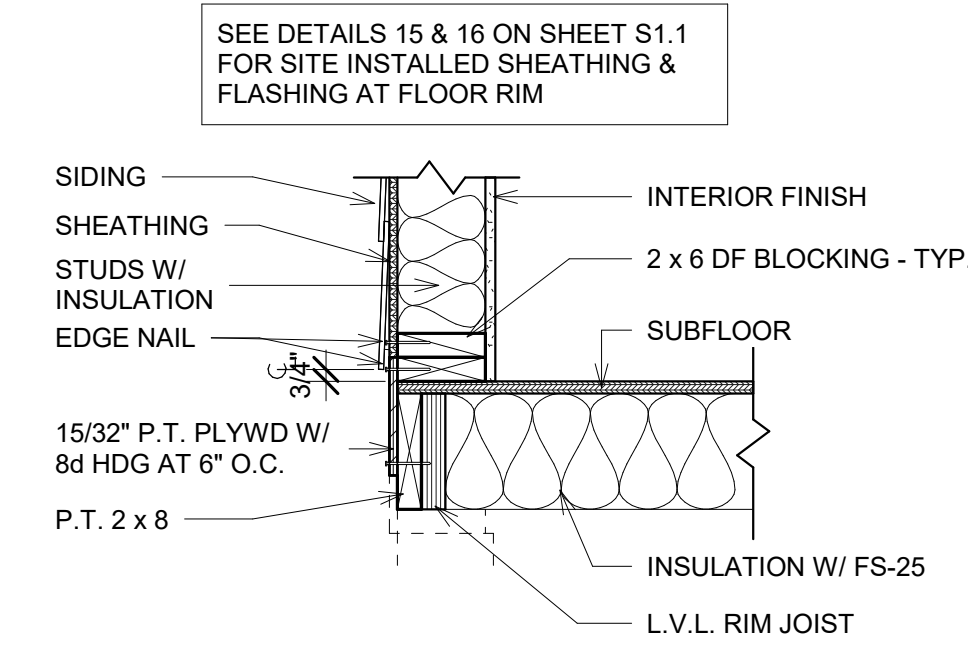
SHEET FLOOR FRAMING PLAN		JOB# 2023-LB-01
PROJ.	112' x 64' MODULAR CHILDCARE	SHEET #
OSU - LITTLE KITS		S 2.0
ADDRESS 1500 SW CHANDLER AVENUE BEND, OR 97702	DRW BJ	DATE 7/10/24 PRELIM



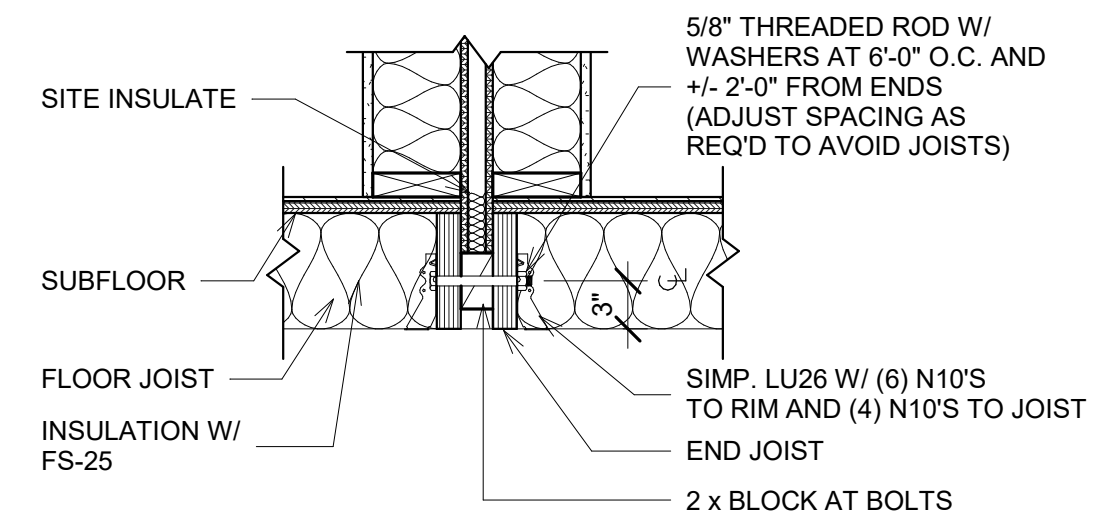
1 FLOOR FRAMING PLAN (MOD E)
3/8" = 1'-0"



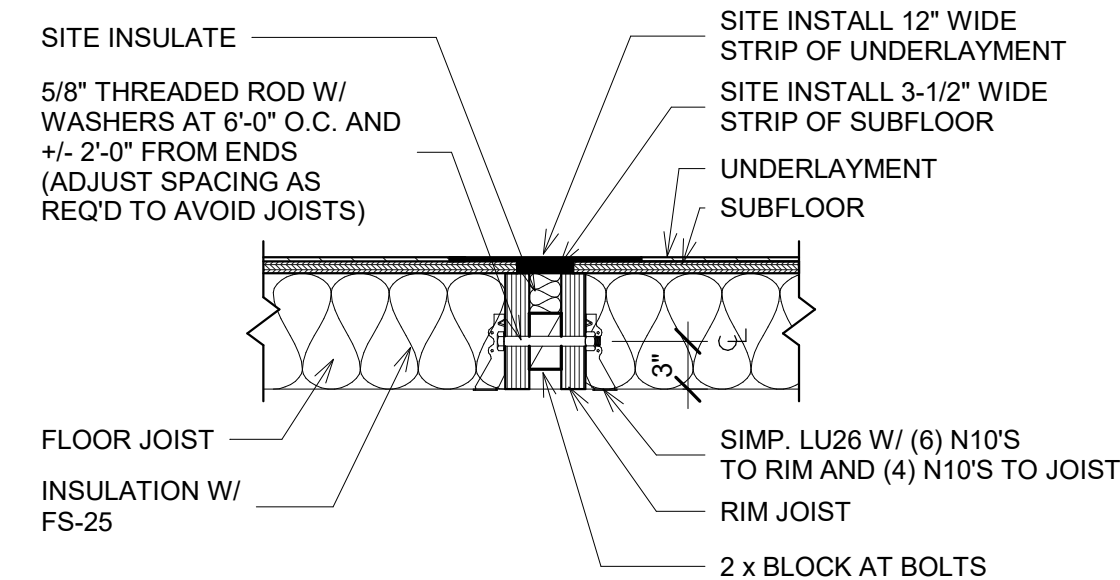
2 FLOOR FRAMING PLAN (MOD F)
3/8" = 1'-0"



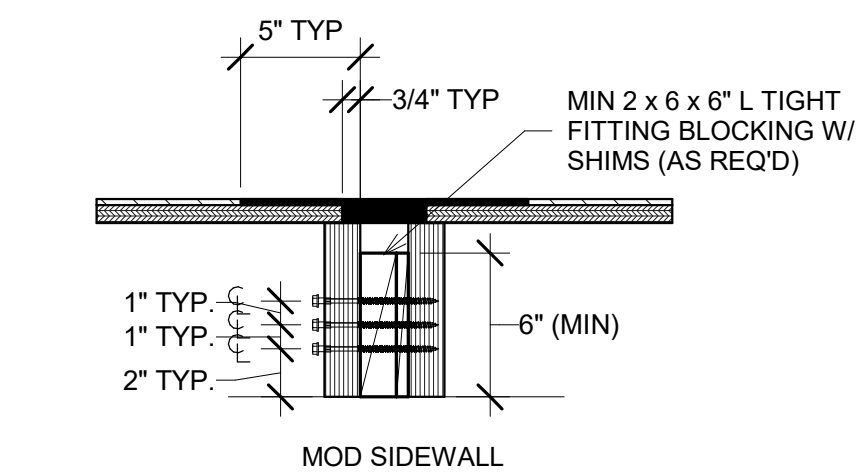
3 FLOOR - MOD SIDEWALL
1" = 1'-0"



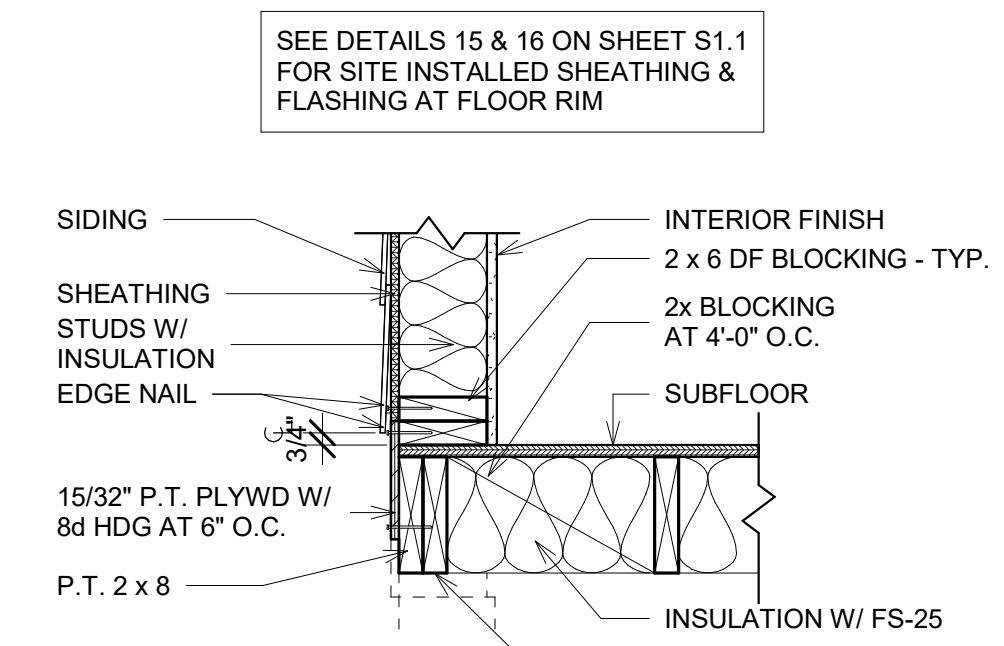
5 FLOOR - MOD SIDEWALL MARRIAGE
1" = 1'-0"



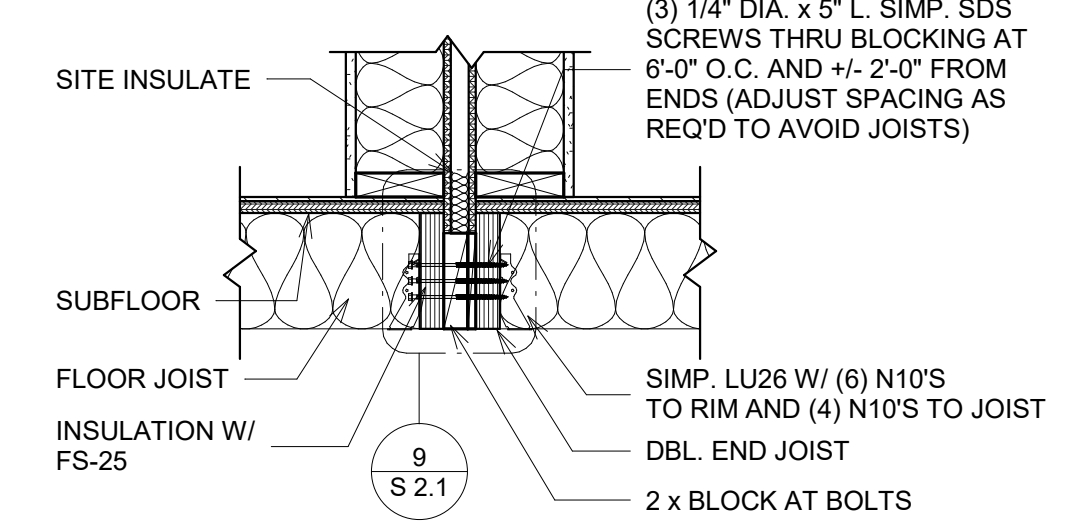
7 FLOOR - MOD SIDEWALL MARRIAGE 2
1" = 1'-0"



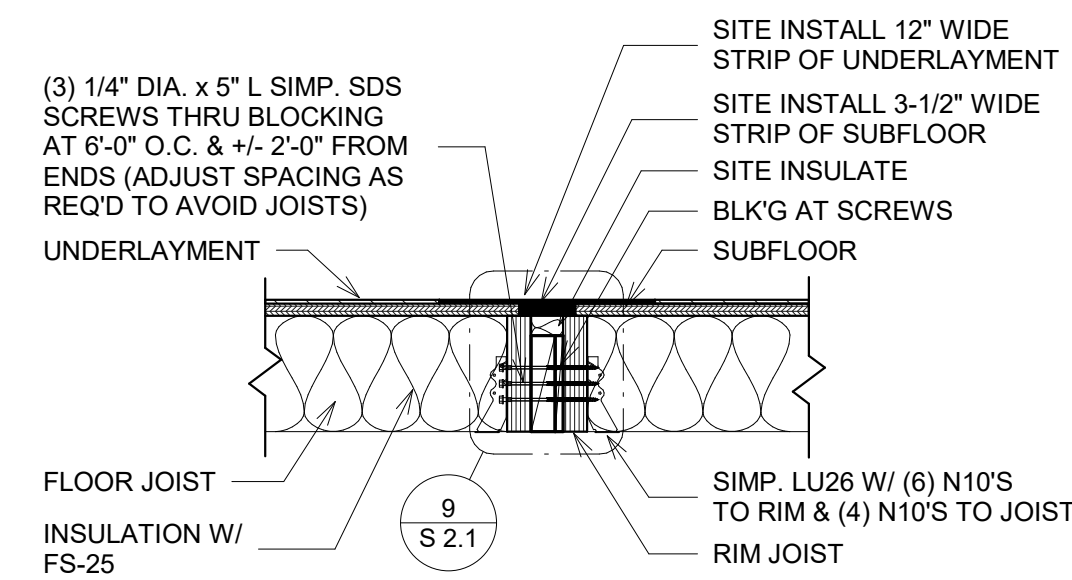
9 FLOOR - BLK'G & FASTENING AT RIM
1 1/2" = 1'-0"



4 FLOOR - MOD ENDWALL
1" = 1'-0"



6 FLOOR - MOD SIDEWALL MARRIAGE (ALTERNATE)
1" = 1'-0"



8 FLOOR - MOD SIDEWALL MARRIAGE 2 (ALTERNATE)
1" = 1'-0"

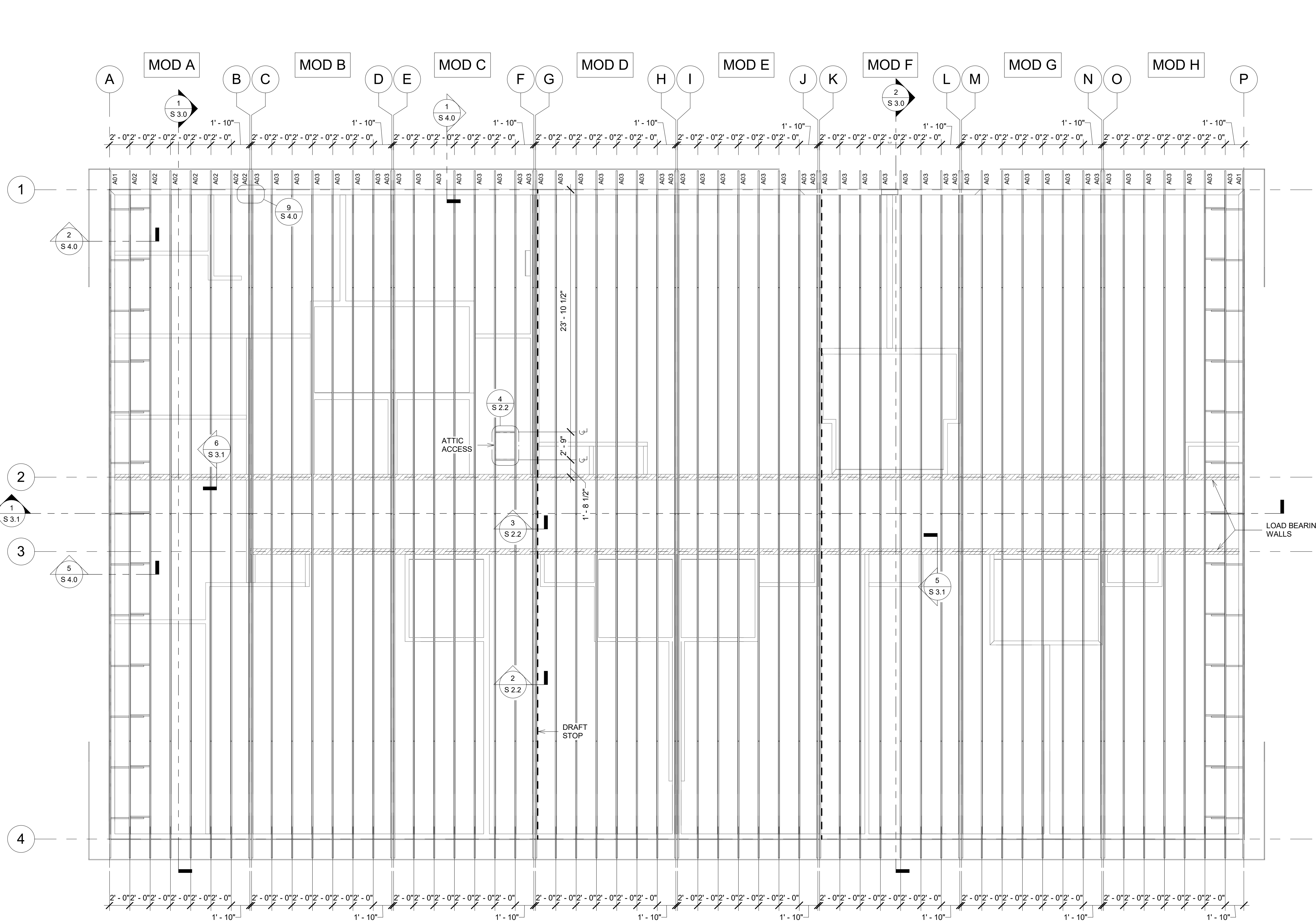
REV.	DESCRIPTION	DATE	BY

REUSE OF DOCUMENTS THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN ARE THE PROPERTY OF MODERN BUILDING SYSTEMS, LLC AND ARE NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER USE OR PROJECT WITHOUT WRITTEN AUTHORIZATION.

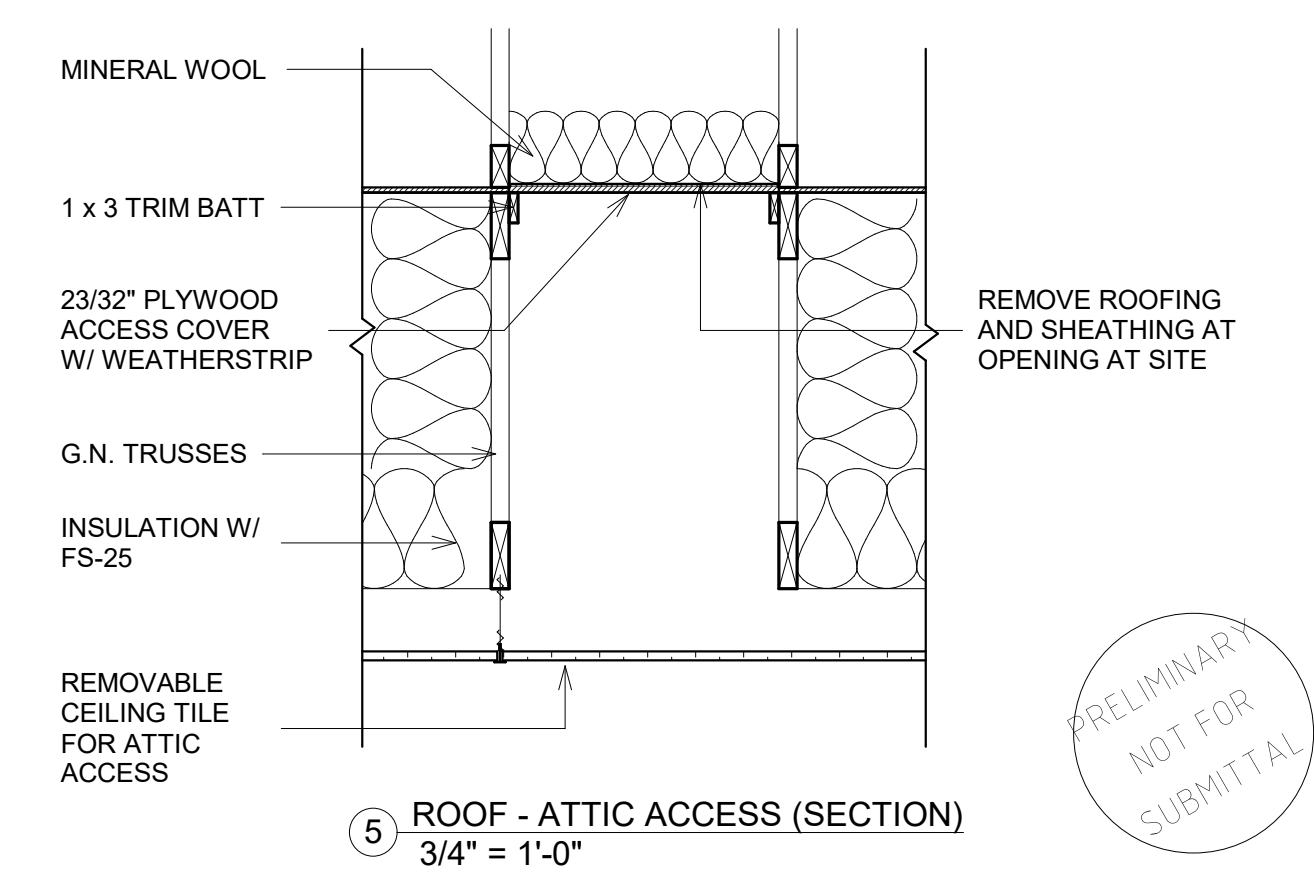
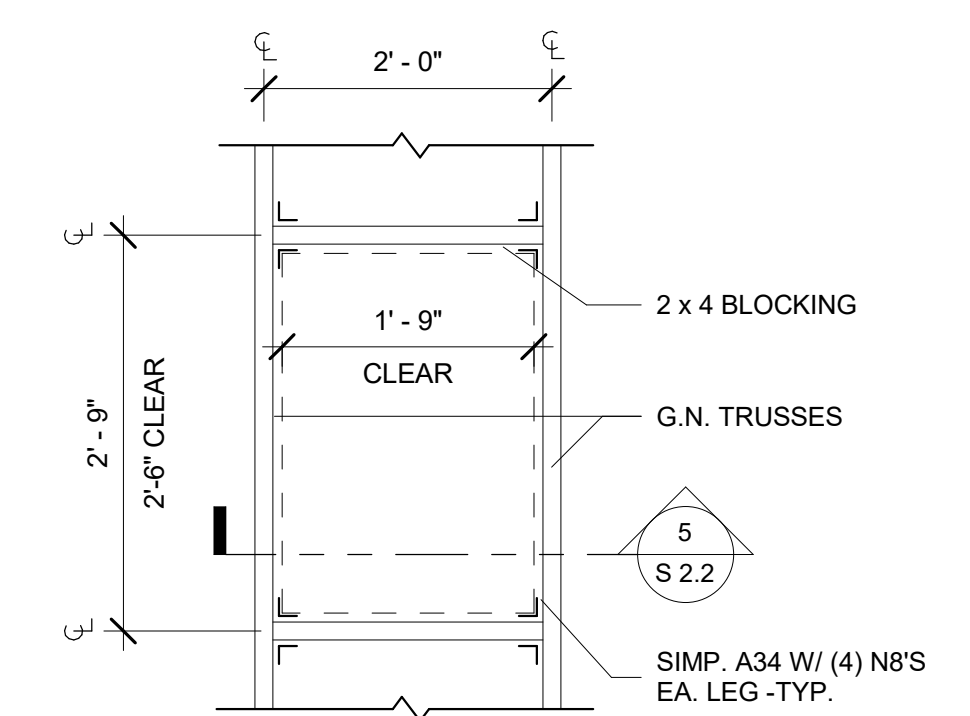
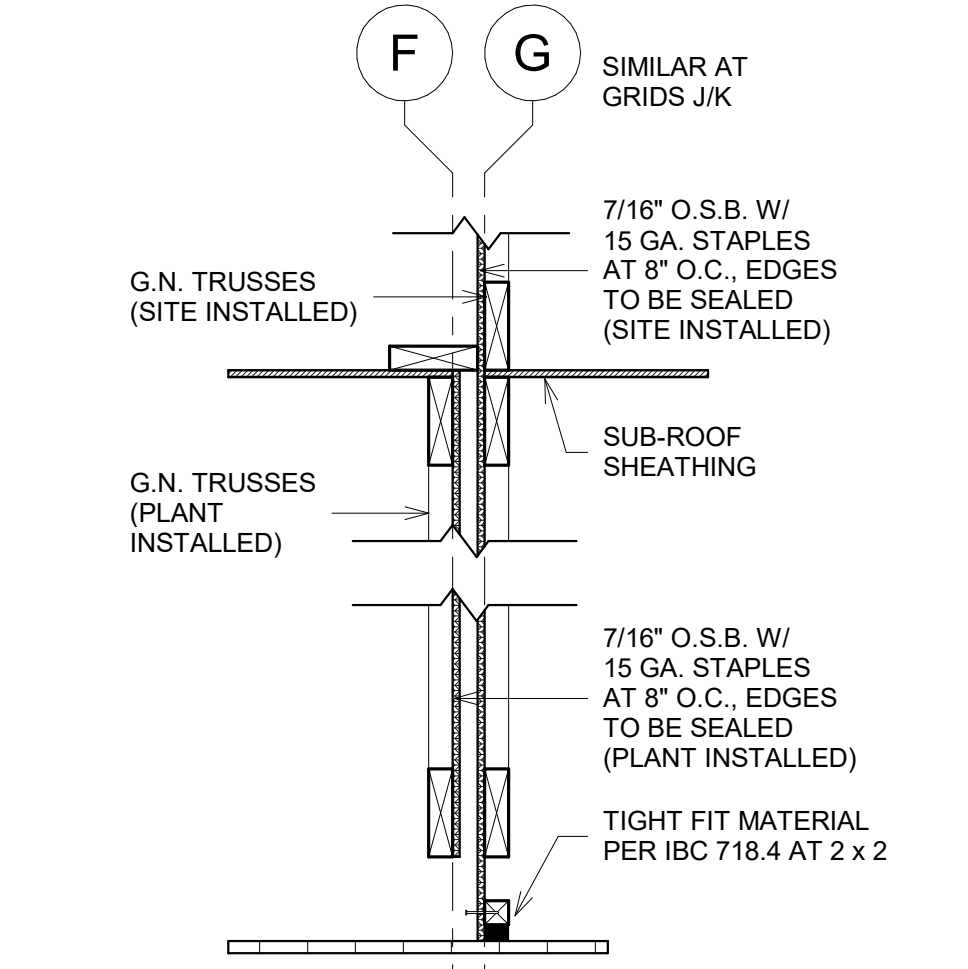
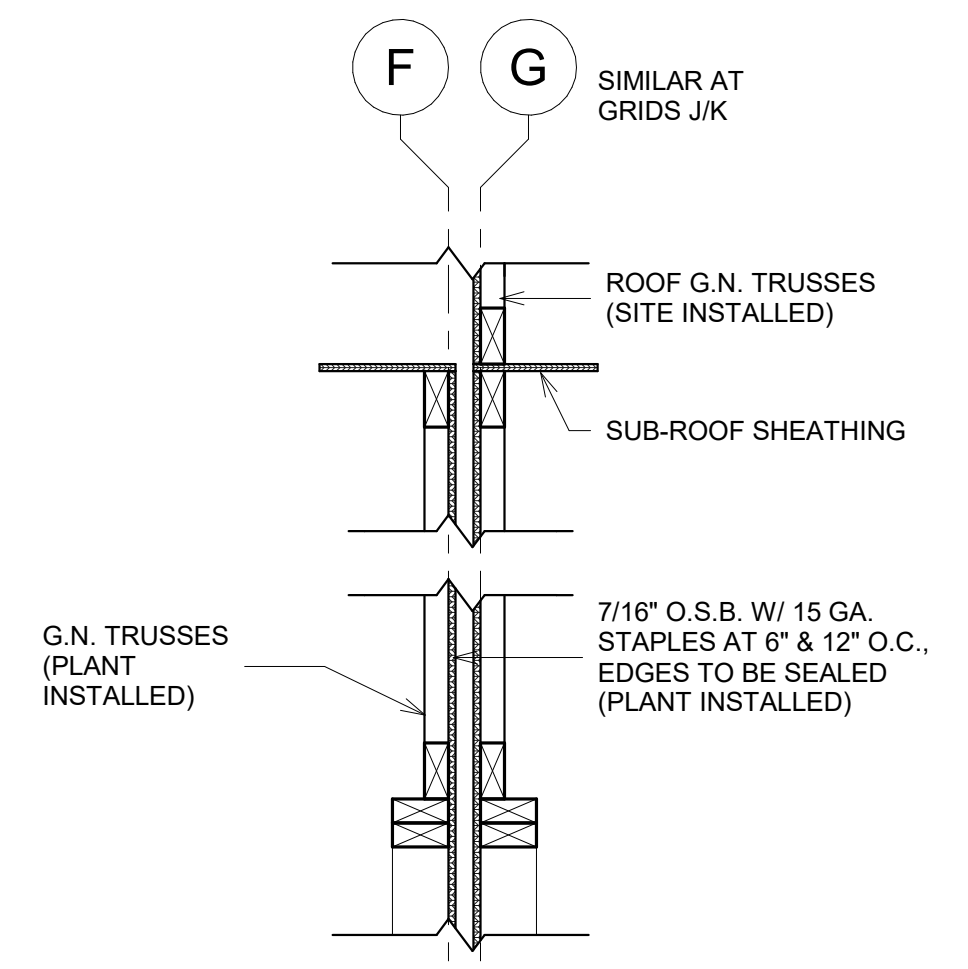
MODERN BUILDING SYSTEMS, LLC
 TELEPHONE: (503) 766-8888 FAX: (503) 766-8600
 P.O. BOX 110, 9405 PORTER ROAD, JUMBLEVILLE, OR 97125
 CHECK OUT OUR WEB PAGE: www.modernbuilding.com

SHEET **FLOOR FRAMING PLAN & DETAILS** JOB# 2023-LB-01
 PROJ. 112' x 64' MODULAR CHILDCARE SHEET #
OSU - LITTLE KITS S 2.1
 ADDRESS 1500 SW CHANDLER AVENUE BEND, OR 97702 DRW BJ DATE 7/10/24 PRELIM

PRELIMINARY
NOT FOR
SUBMITTAL



1 SUB-ROOF FRAMING PLAN
3/16" = 1'-0"



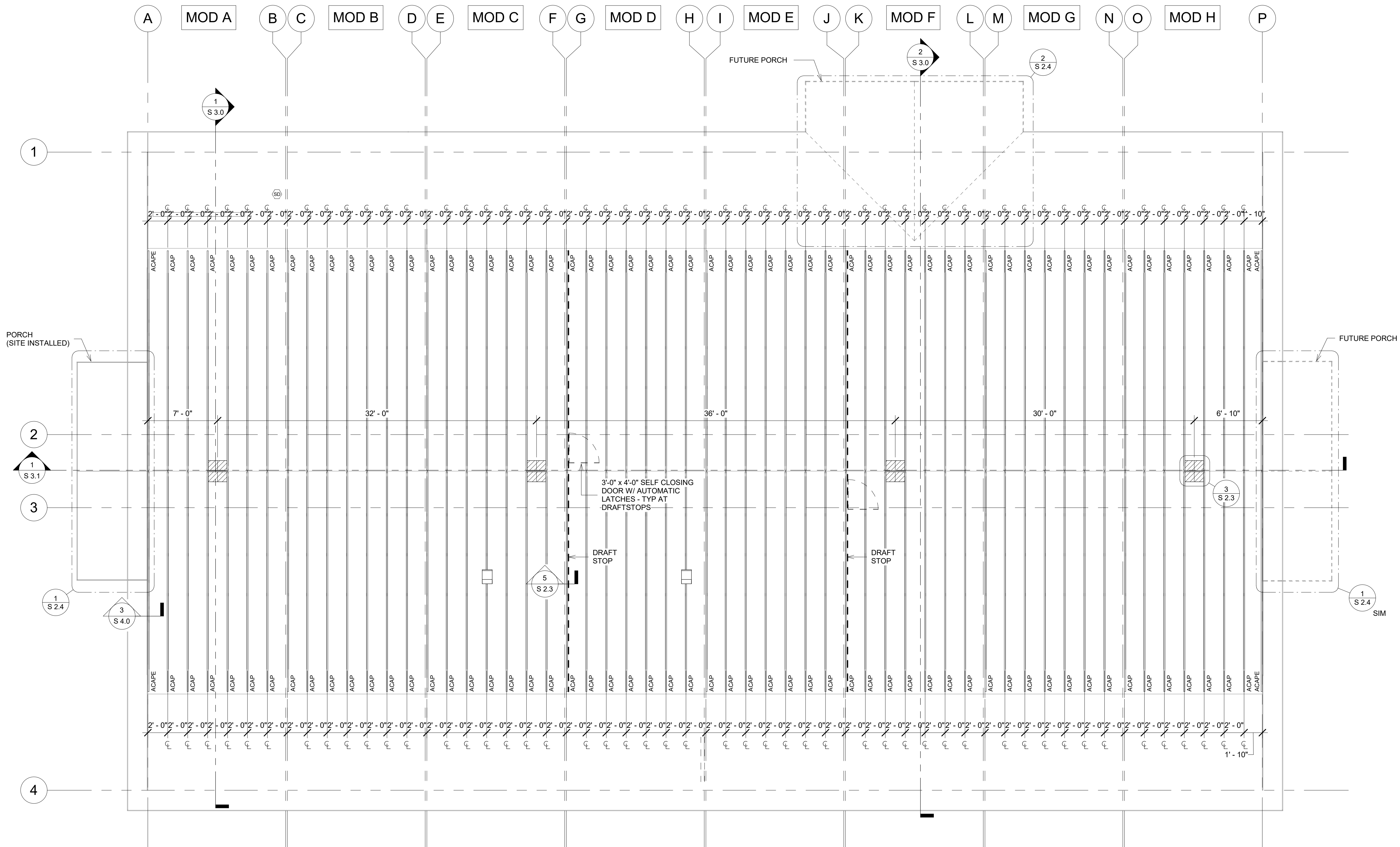
REV.	DESCRIPTION	DATE	BY

REUSE OF DOCUMENTS THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN ARE THE PROPERTY OF MODERN BUILDING SYSTEMS, LLC AND ARE NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER USE OR PROJECT WITHOUT WRITTEN AUTHORIZATION.

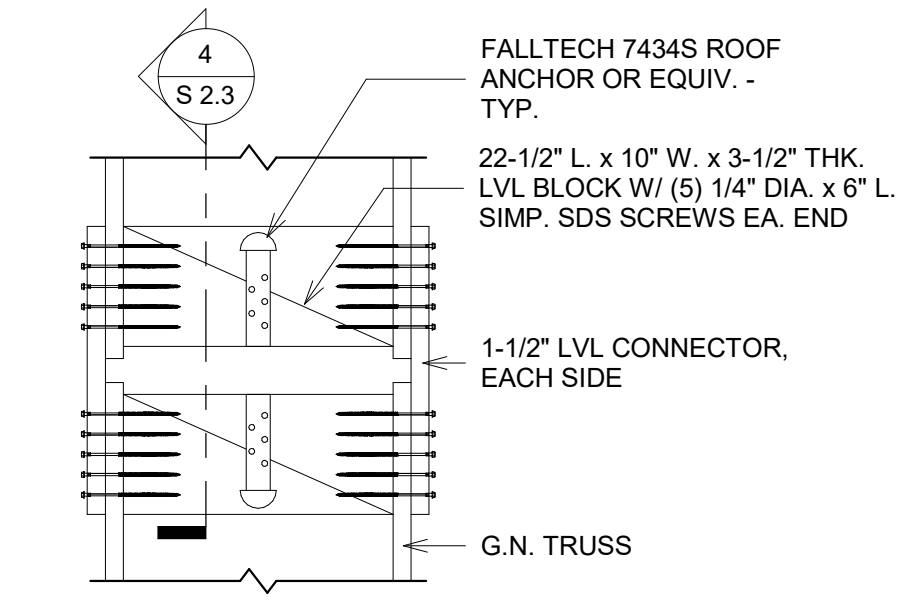
MODERN BUILDING SYSTEMS
 MODERN BUILDING SYSTEMS, LLC
 TELEPHONE: (503) 766-8844 FAX: (503) 766-8660
 P.O. BOX 110, 9405 PORTER ROAD, JUMBLEVILLE, OR 97125
 CHECK OUT OUR WEB PAGE: WWW.MODERNBUILDINGSYSTEMS.COM
 © MODERN BUILDING SYSTEMS, LLC 2024

SHEET	SUB-ROOF FRAMING PLAN	JOB#	2023-LB-01
PROJ.	112' x 64' MODULAR CHILDCARE	SHEET #	S 2.2
ADDRESS	1500 SW CHANDLER AVENUE BEND, OR 97702	DRW	BJ
DATE	7/10/24 PRELIM		

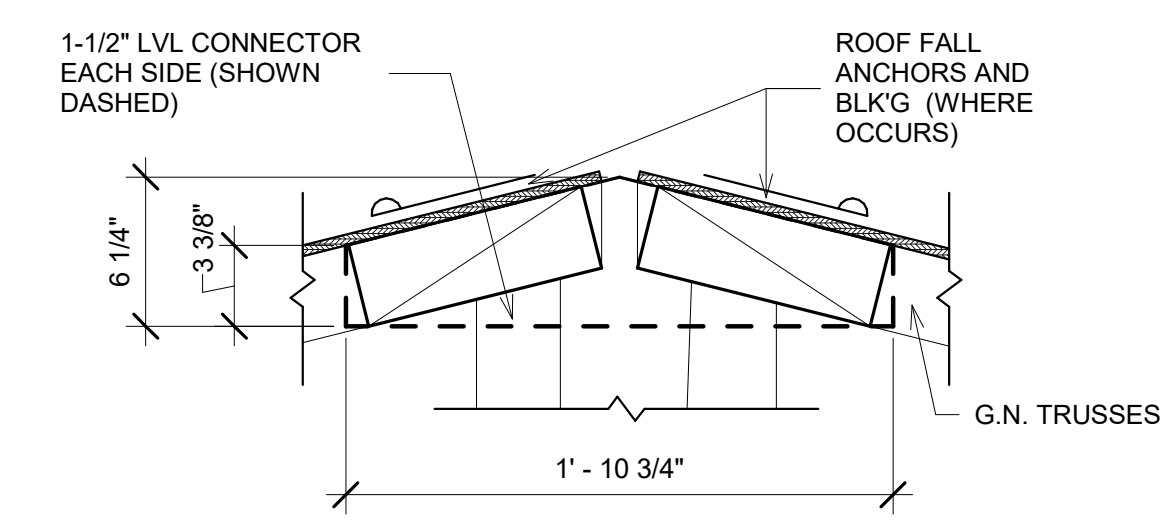
PRELIMINARY
NOT FOR
SUBMITTAL



NOTES:
 1. FALL PROTECTION ANCHOR FOR PFAS W/ MAX. ARRESTING FORCE OF 1800#
 2. STRUCTURE DESIGNED FOR 3100# LIVE LOAD PER 2022 IBC SEC. 1607.11.4

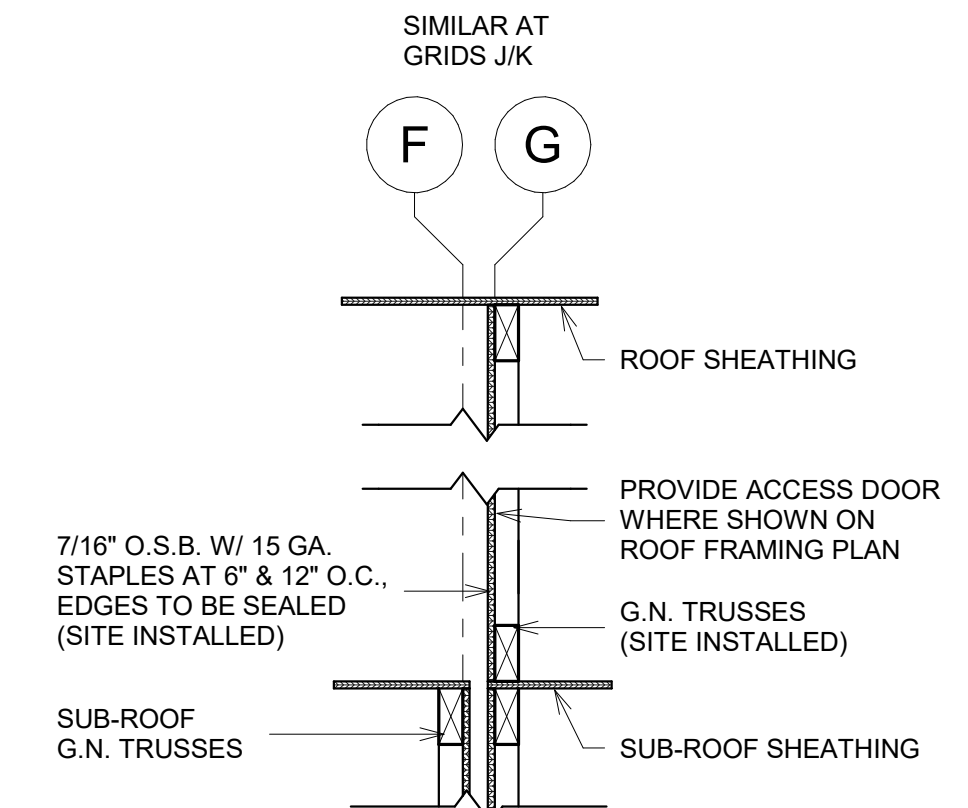


3 ROOF - FALL PROTECTION ANCHOR
 3/4" = 1'-0"



4 ROOF - FALL PROTECTION (SECTION)
 1 1/2" = 1'-0"

1 ROOF FRAMING PLAN
 3/16" = 1'-0"



5 ROOF - DRAFTSTOP
 1" = 1'-0"

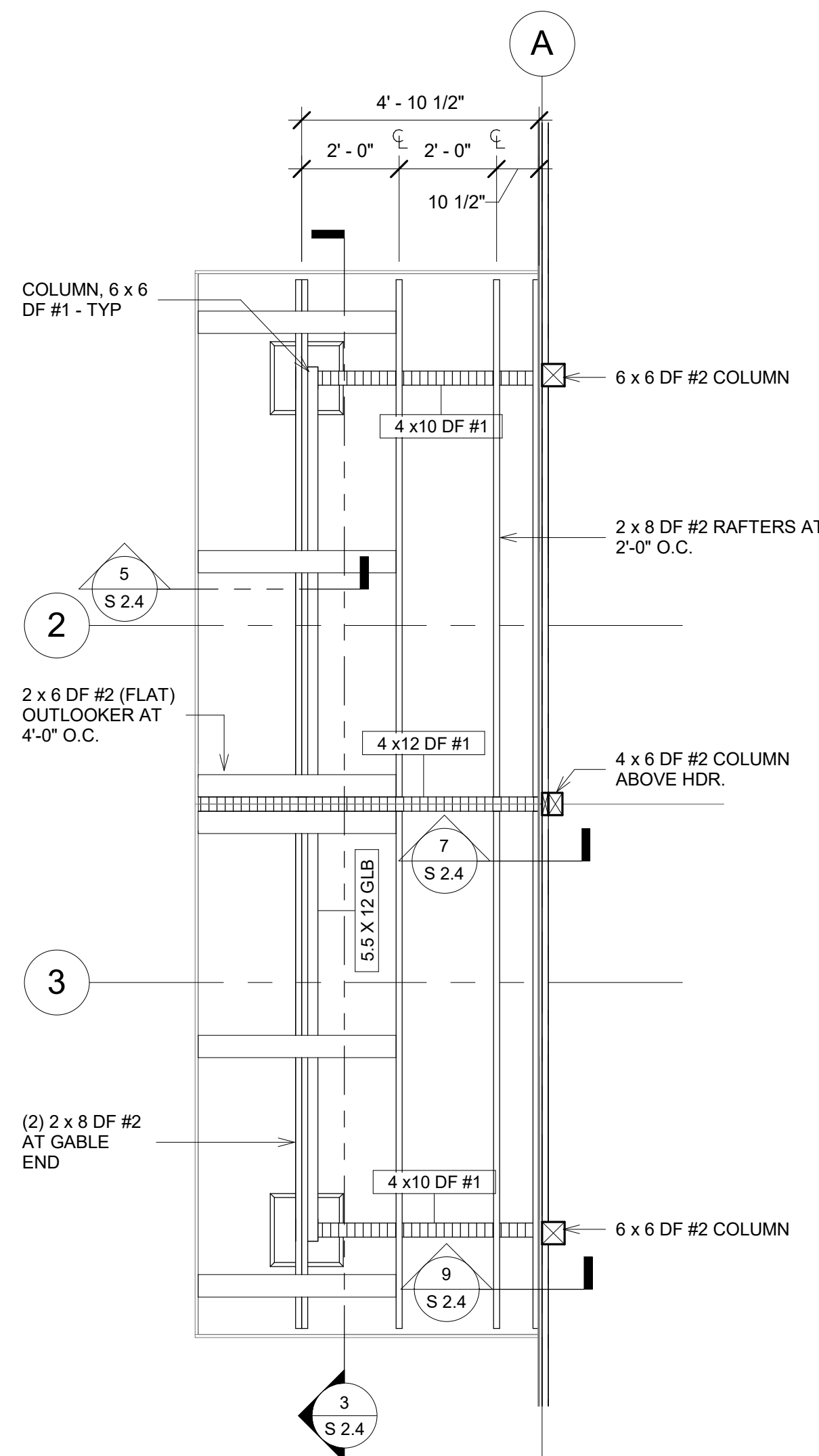
REV.	DESCRIPTION	DATE	BY

REUSE OF DOCUMENTS THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN ARE THE PROPERTY OF MODERN BUILDING SYSTEMS, LLC AND ARE NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER USE OR PROJECT WITHOUT WRITTEN AUTHORIZATION.

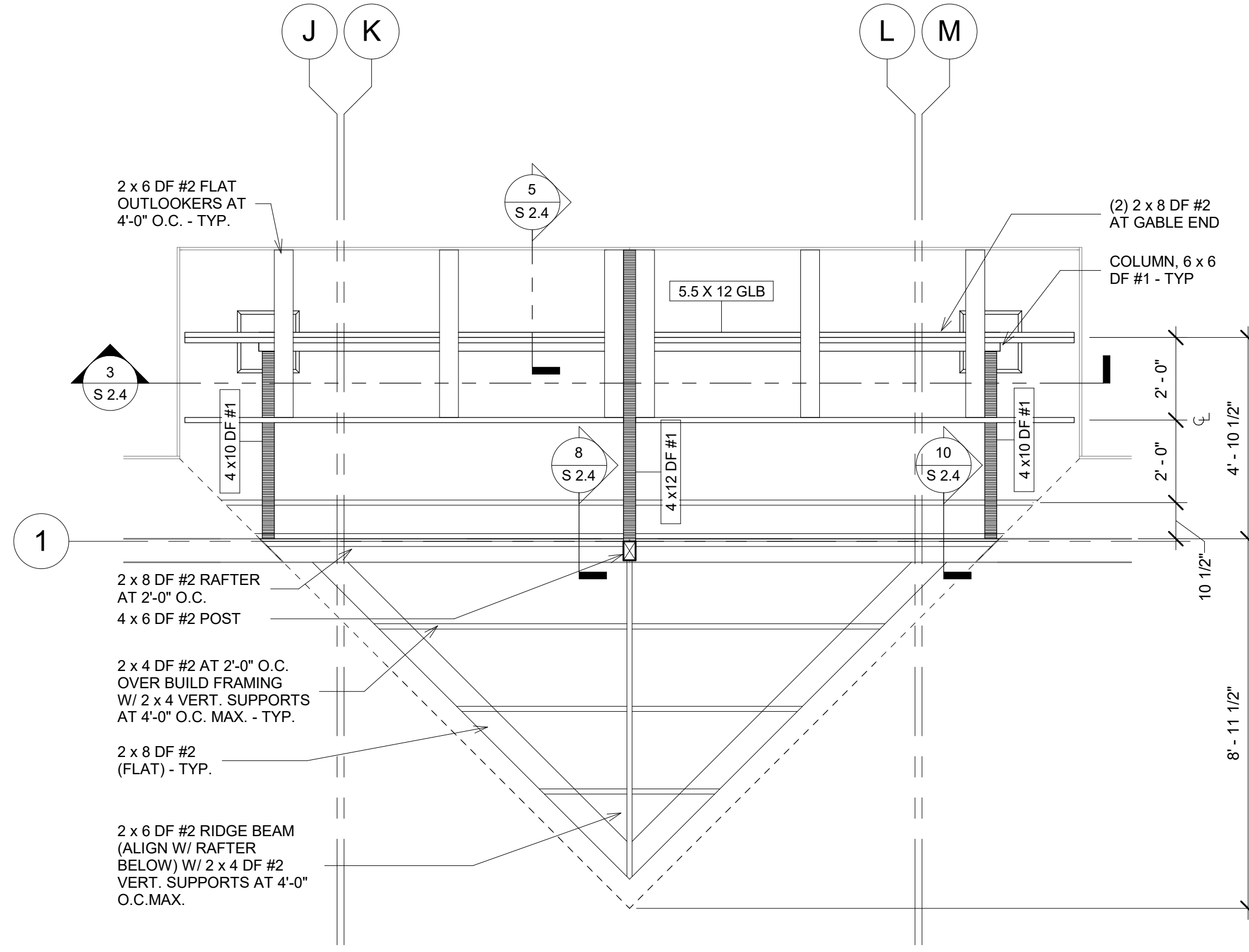


SHEET	ROOF FRAMING PLAN	JOB#	2023-LB-01
PROJ.	112' x 64' MODULAR CHILDCARE	SHEET #	S 2.3
	OSU - LITTLE KITS	DATE	7/10/24 PRELIM
ADDRESS	1500 SW CHANDLER AVENUE BEND, OR 97702	DRW	BJ

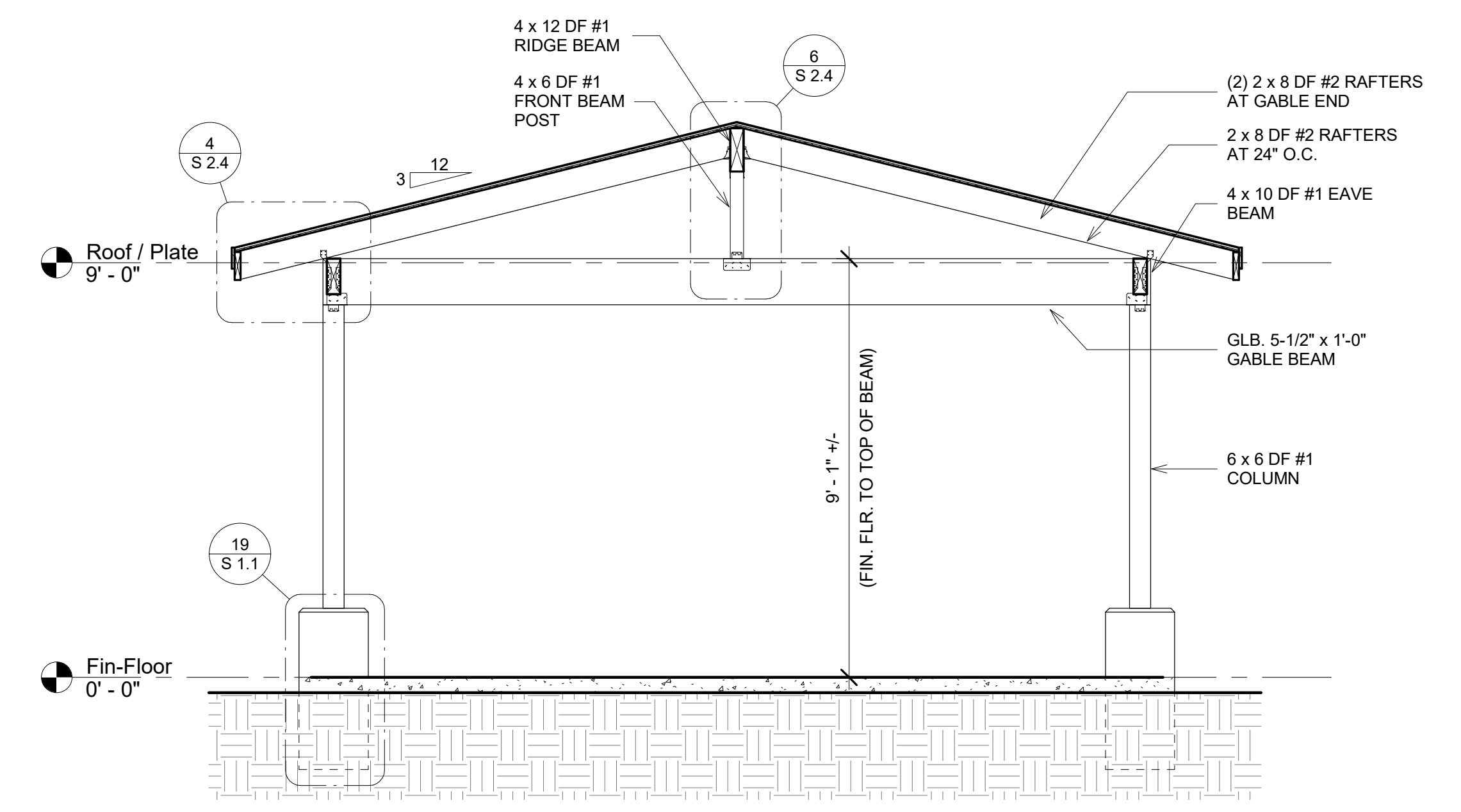
PRELIMINARY
 NOT FOR
 SUBMITTAL



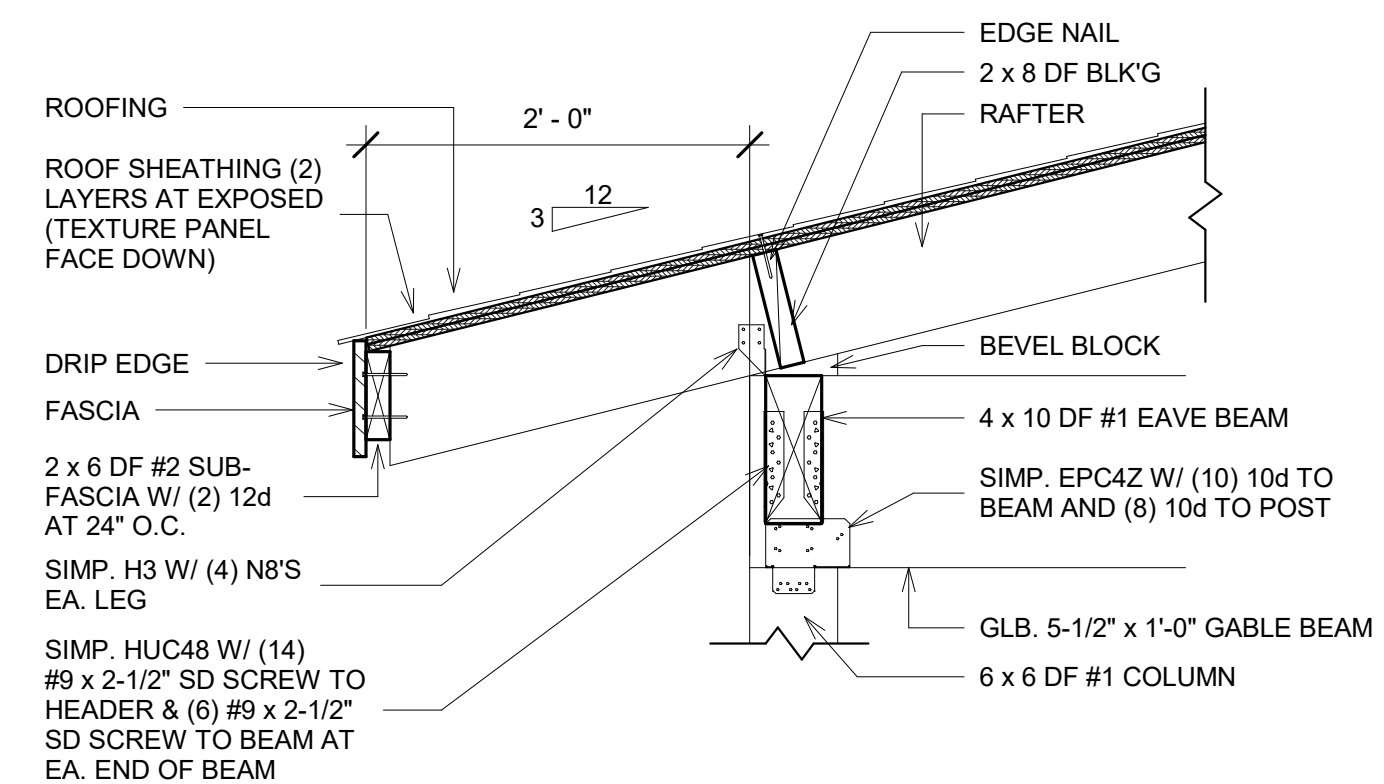
1 PORCH ROOF 1 - FRAMING PLAN
3/8" = 1'-0"



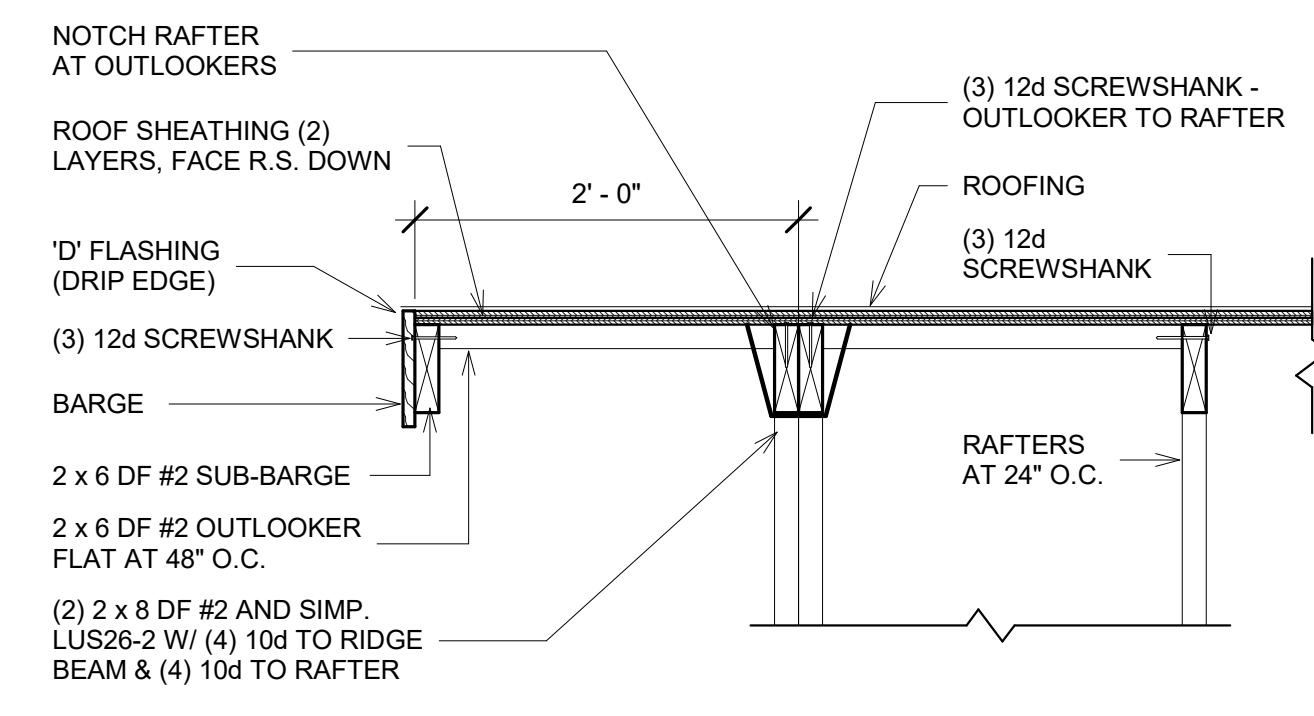
2 PORCH ROOF 2 - FRAMING PLAN
3/8" = 1'-0"



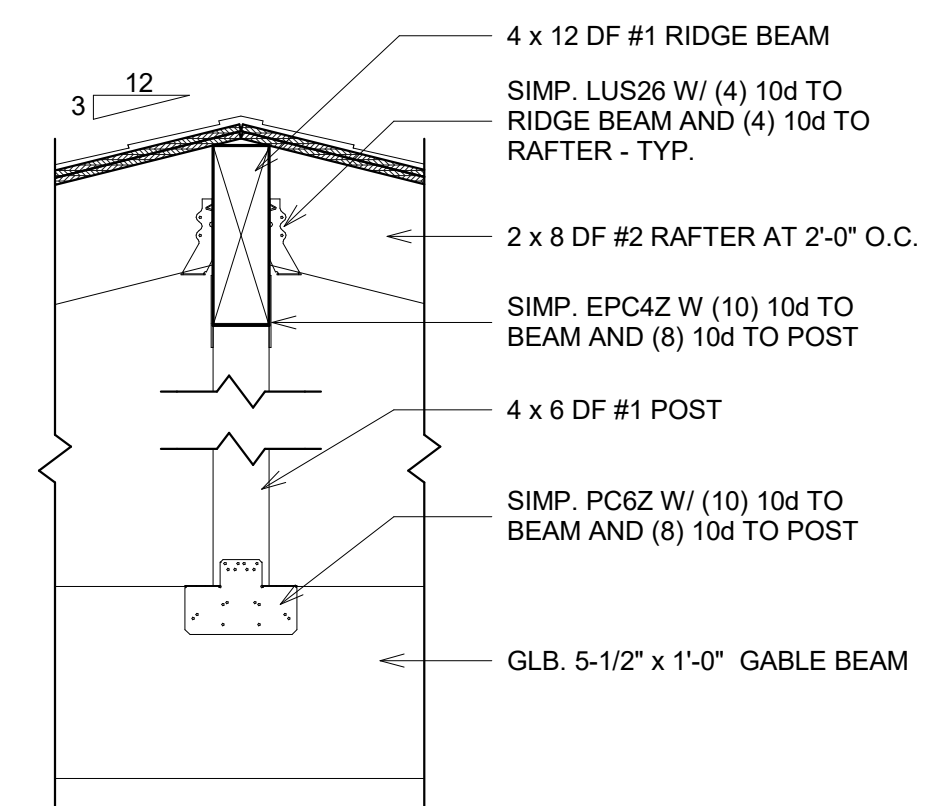
3 PORCH SECTION
3/8" = 1'-0"



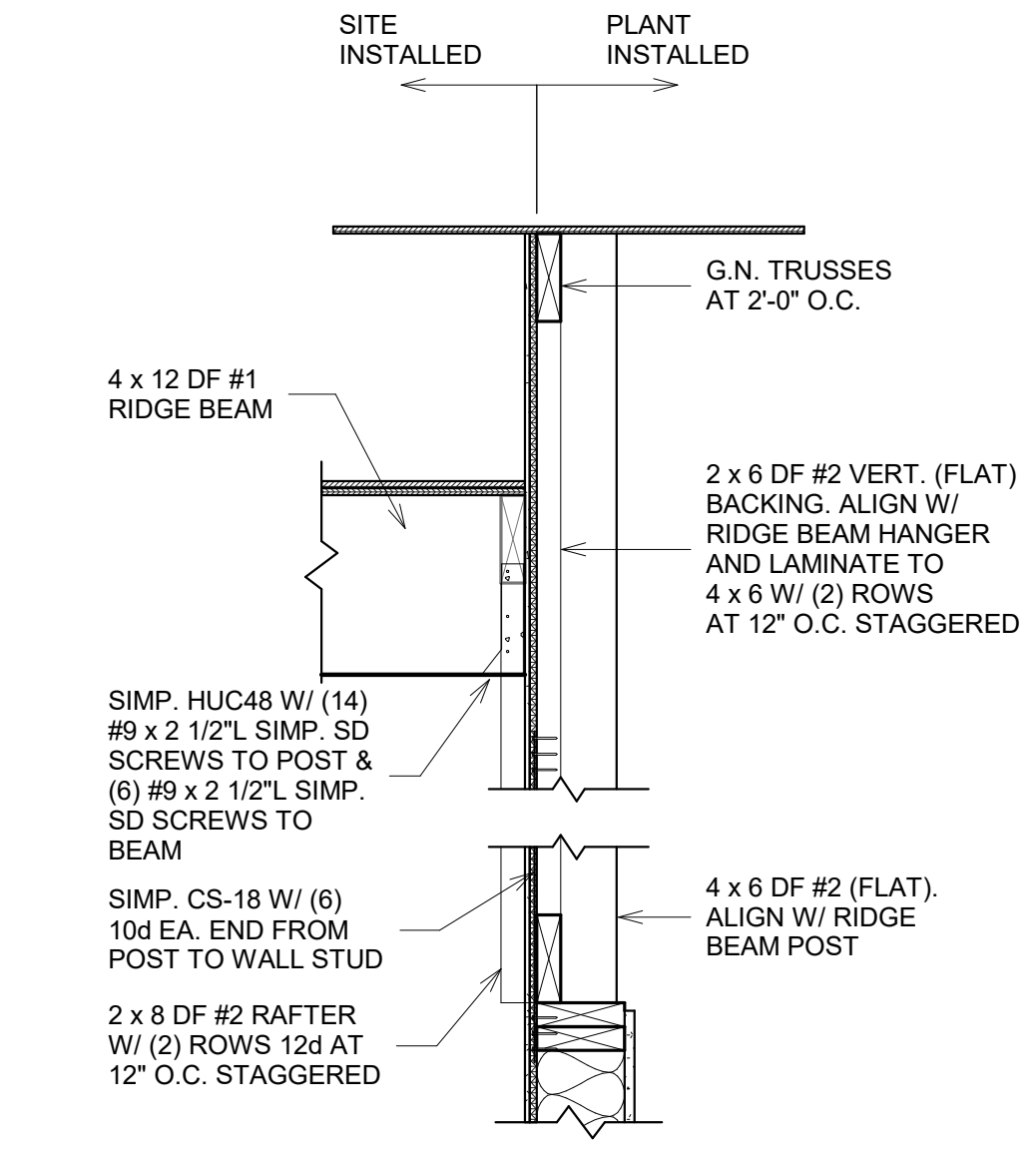
4 ROOF - PORCH EAVE
1" = 1'-0"



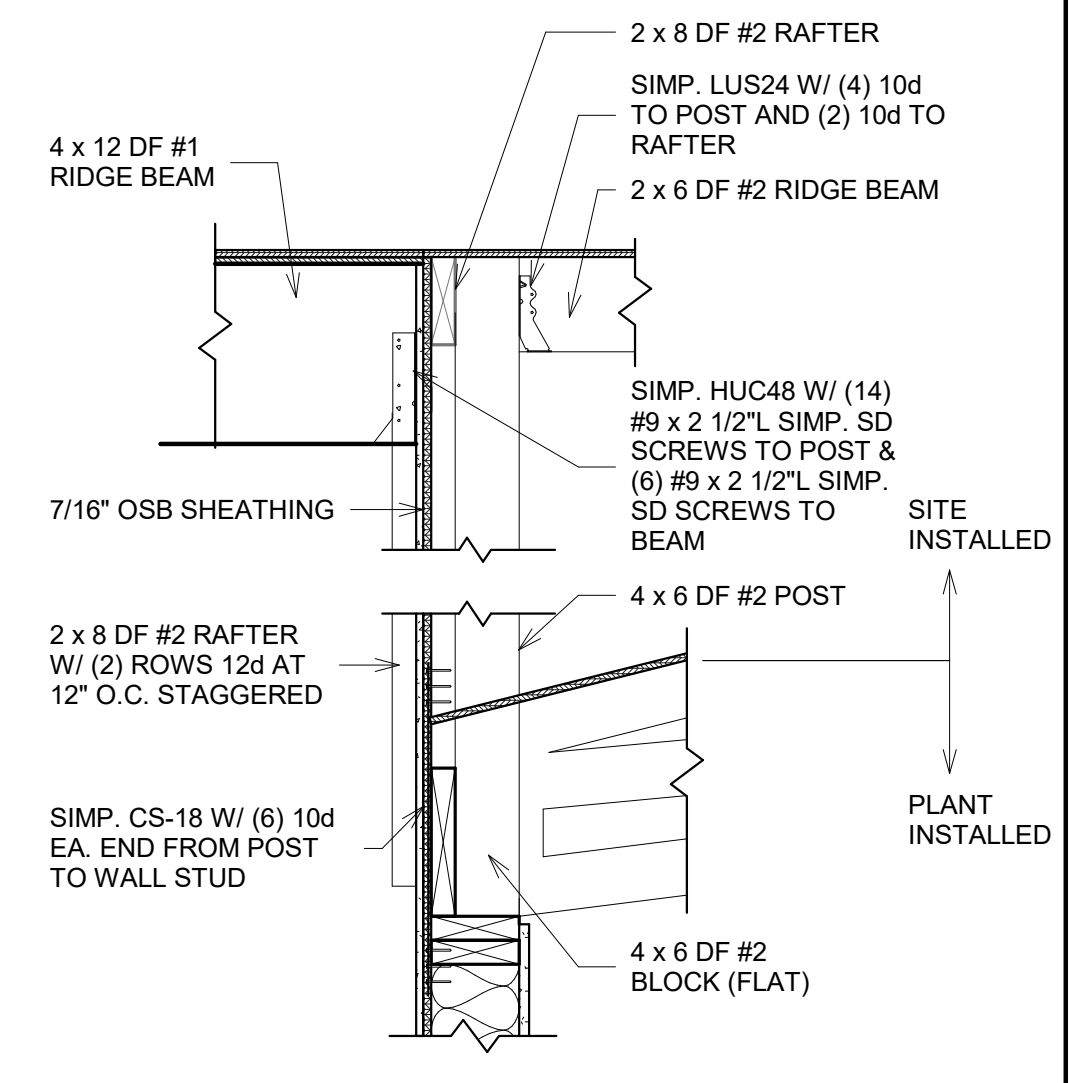
5 ROOF - PORCH GABLE
1" = 1'-0"



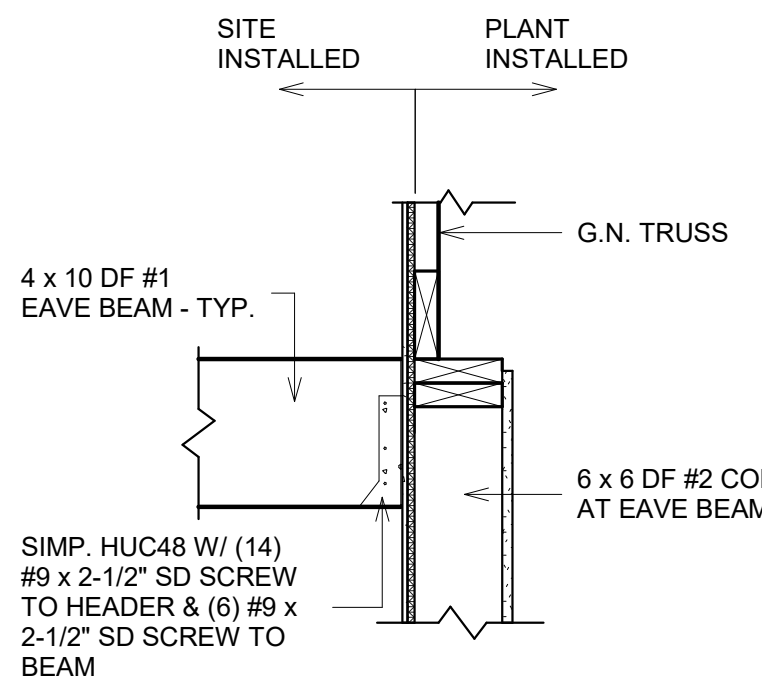
6 PORCH - RIDGE BEAM AND GABLE BEAM TO POST
1" = 1'-0"



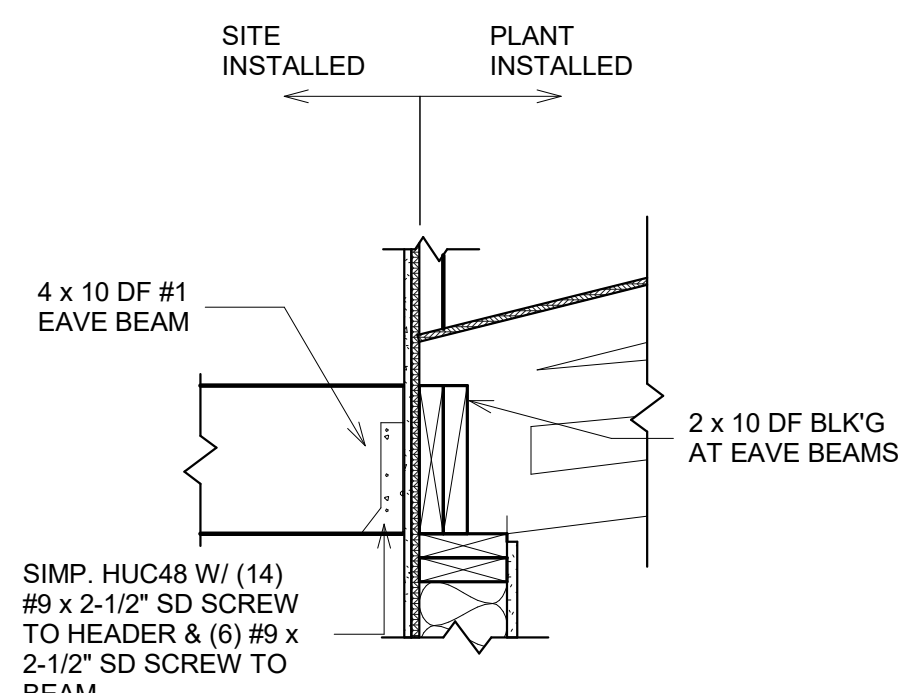
7 PORCH - BEAM TO WALL AT GABLE RIDGE 1
1" = 1'-0"



8 PORCH - BEAM TO WALL AT GABLE RIDGE 2
1" = 1'-0"



9 PORCH - BEAM TO WALL 1
1" = 1'-0"



10 PORCH - BEAM TO WALL 2
1" = 1'-0"

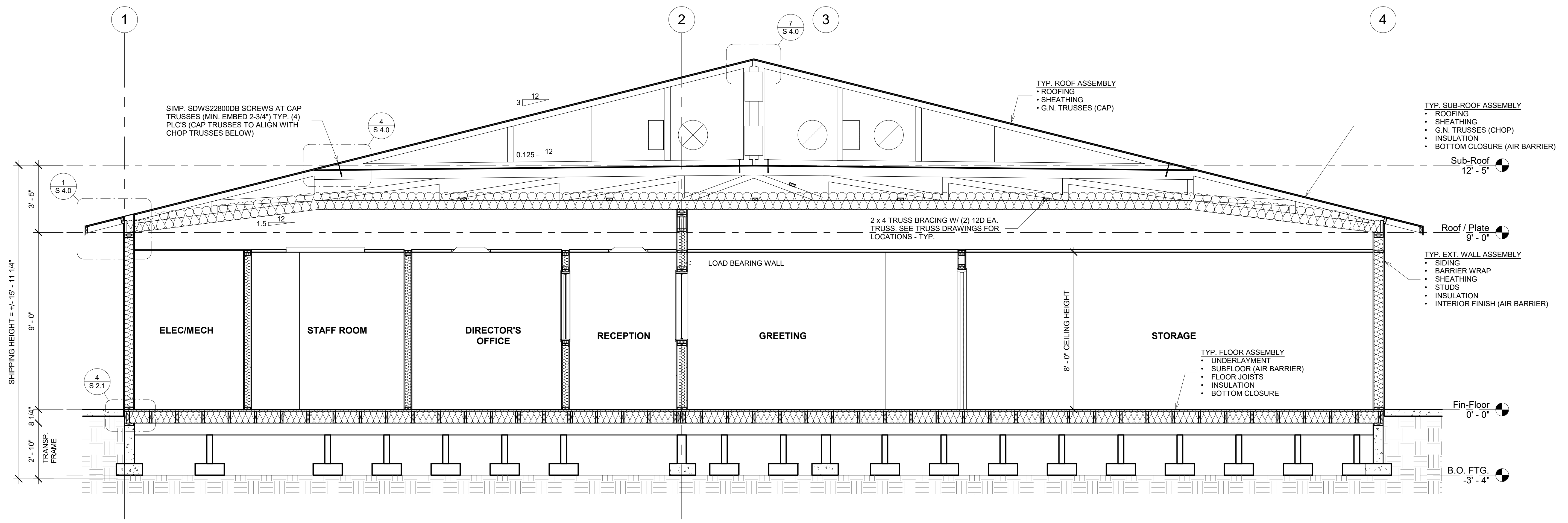
REV.	DESCRIPTION	DATE	BY

REUSE OF DOCUMENTS THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN ARE THE PROPERTY OF MODERN BUILDING SYSTEMS, LLC AND ARE NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER USE OR PROJECT WITHOUT WRITTEN AUTHORIZATION.

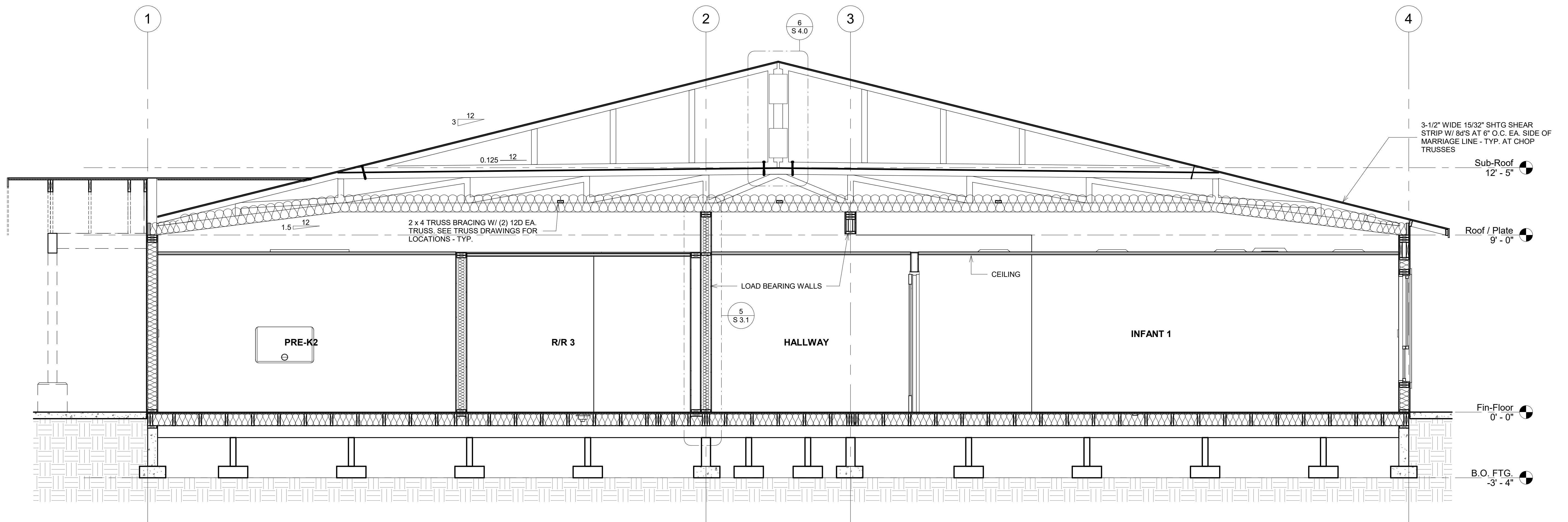
MODERN BUILDING SYSTEMS, LLC
 TELEPHONE: (503) 766-8889 FAX: (503) 766-8900
 P.O. BOX 110, 9405 PORTER ROAD, JUMBLEVILLE, OR 97125
 CHECK OUT OUR WEB PAGE: www.modernbuilding.com

SHEET **PORCH FRAMING PLAN & DETAILS** JOB# 2023-LB-01
 PROJ. 112' x 64' MODULAR CHILDCARE SHEET # **S 2.4**
OSU - LITTLE KITS
 ADDRESS 1500 SW CHANDLER AVENUE BEND, OR 97702 DRW BJ DATE 7/10/24 PRELIM

PRELIMINARY
NOT FOR
SUBMITTAL



1 BLDG TRANSVERSE SECTION - A
3/8" = 1'-0"



2 BLDG TRANSVERSE SECTION - B
3/8" = 1'-0"

REV.	DESCRIPTION	DATE	BY

REUSE OF DOCUMENTS THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN ARE THE PROPERTY OF MODERN BUILDING SYSTEMS, LLC AND ARE NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER USE OR PROJECT WITHOUT WRITTEN AUTHORIZATION.

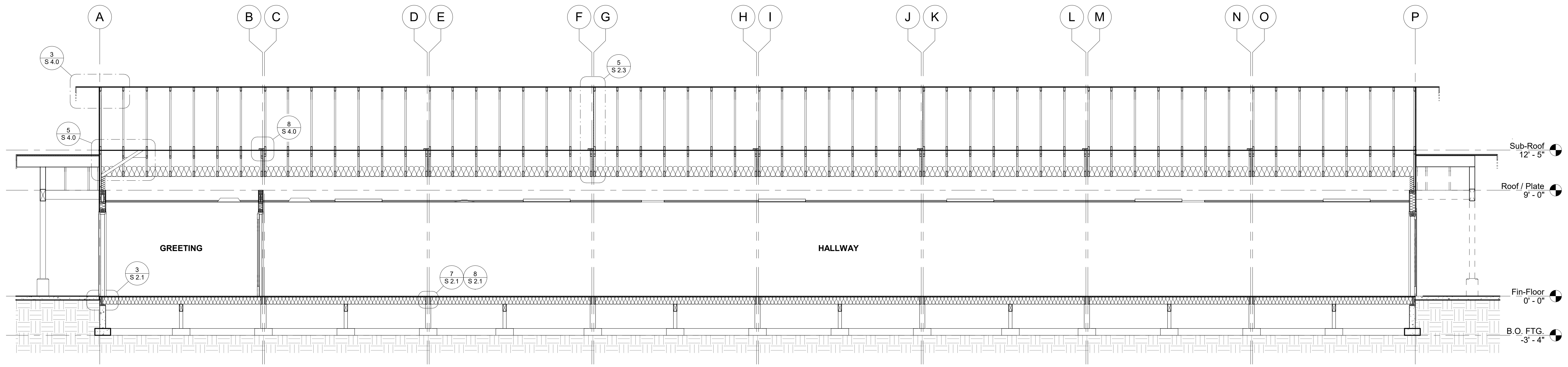
MODERN BUILDING SYSTEMS
 MODERN BUILDING SYSTEMS, LLC
 TELEPHONE: (503) 766-8844 FAX: (503) 766-8600
 P.O. BOX 110, 9405 PORTER ROAD, JUMBLEVILLE, OR 97025
 CHECK OUT OUR WEB PAGE: www.modernbuildingsystems.com
 © MODERN BUILDING SYSTEMS, LLC 2024

SHEET BUILDING SECTIONS
 PROJ. 112' x 64' MODULAR CHILDCARE
OSU - LITTLE KITS
 ADDRESS 1500 SW CHANDLER AVENUE BEND, OR 97702

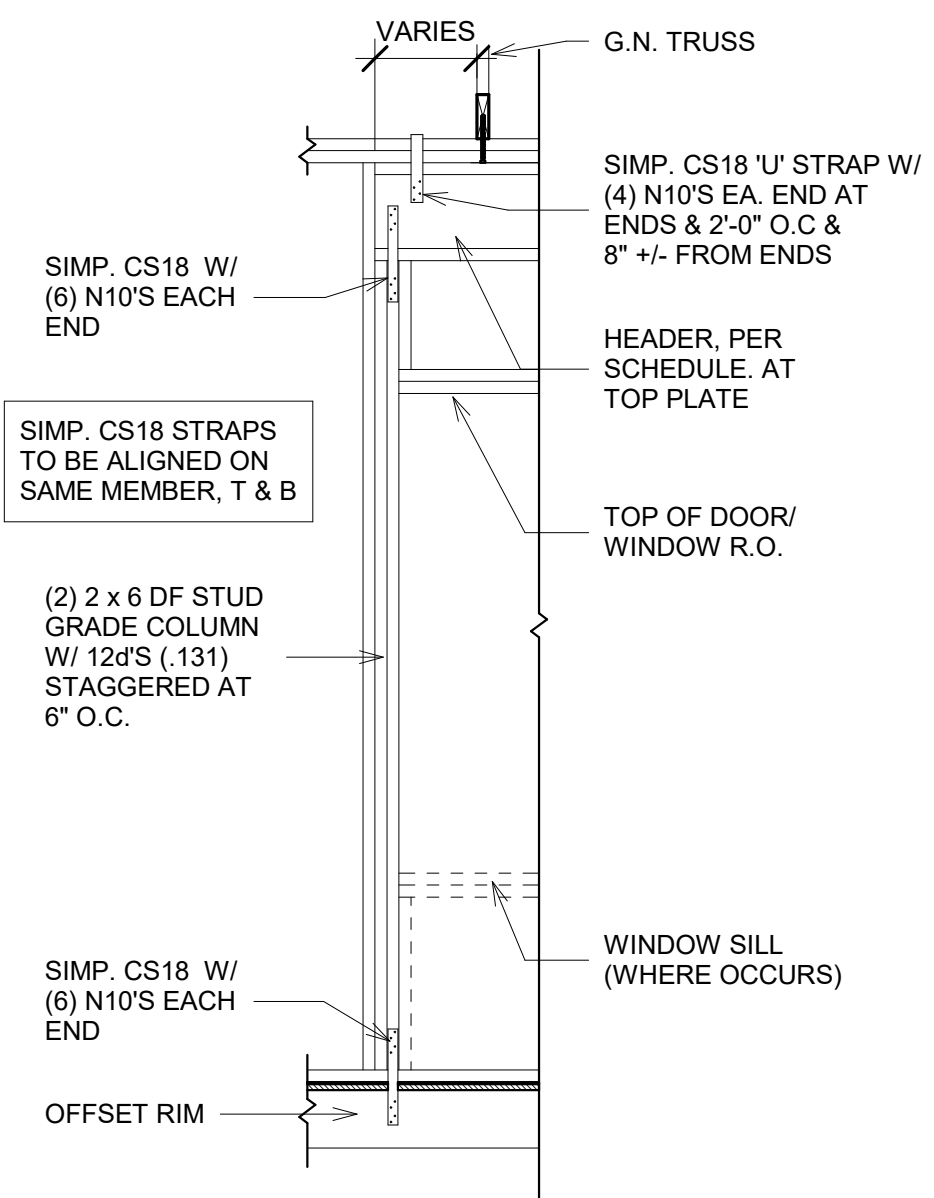
JOB# 2023-LB-01
 SHEET # **S 3.0**
 DATE 7/10/24 PRELIM

DRW BJ

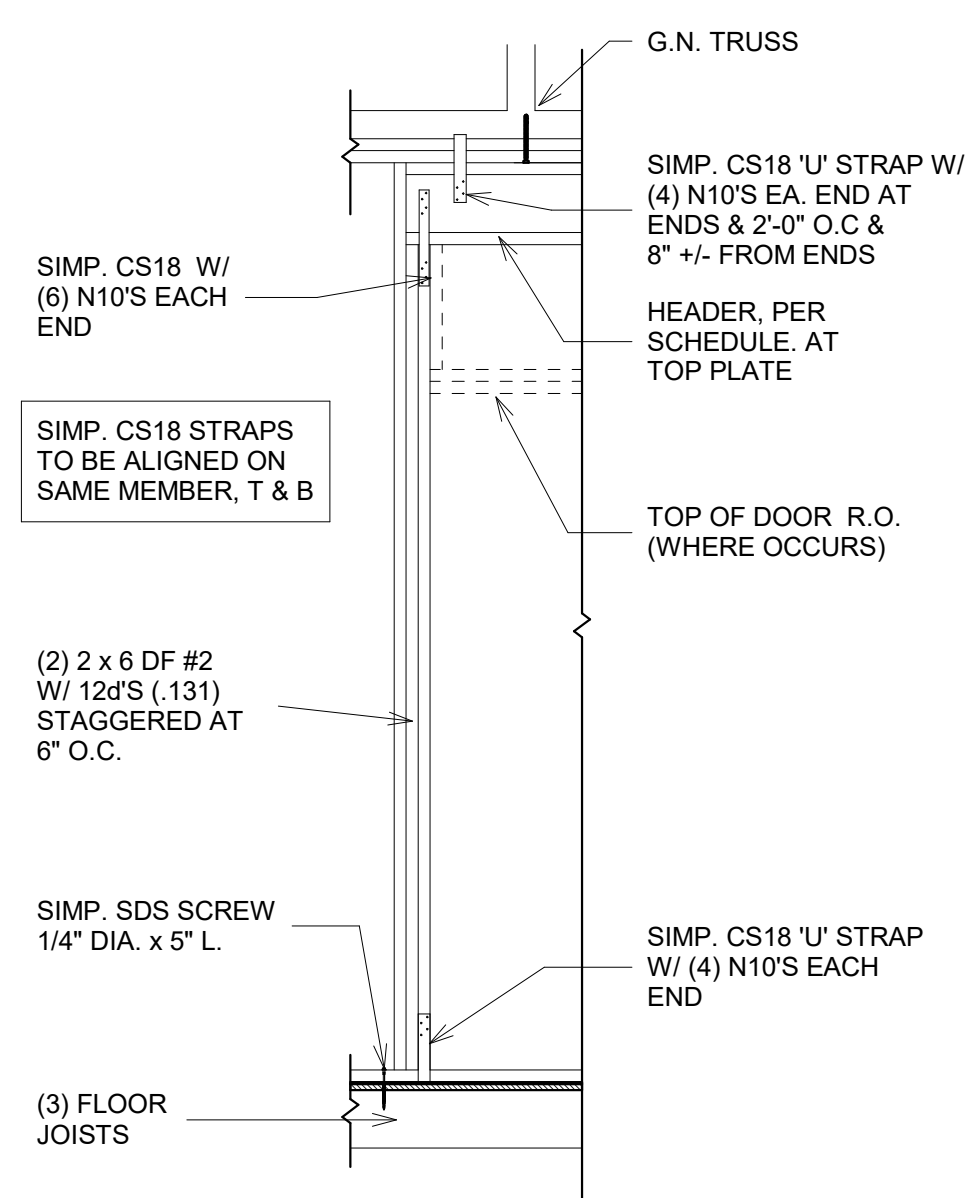
PRELIMINARY
NOT FOR
SUBMITTAL



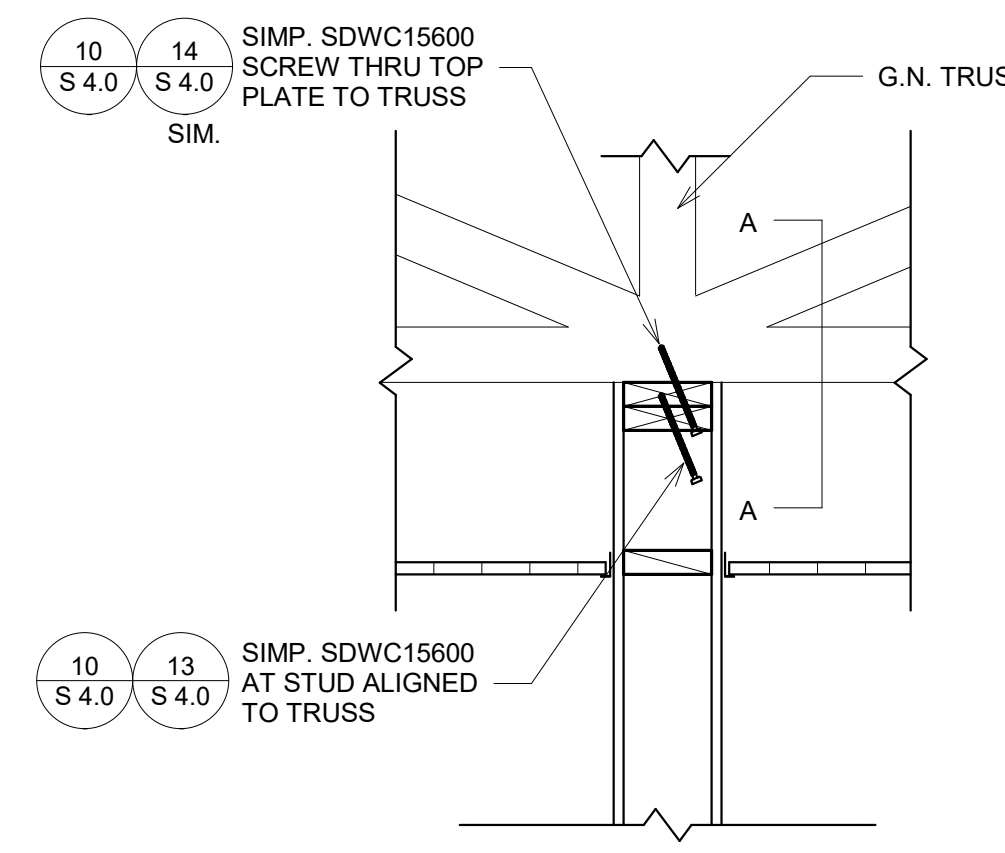
1 BLDG LONGITUDINAL SECTION
1/4" = 1'-0"



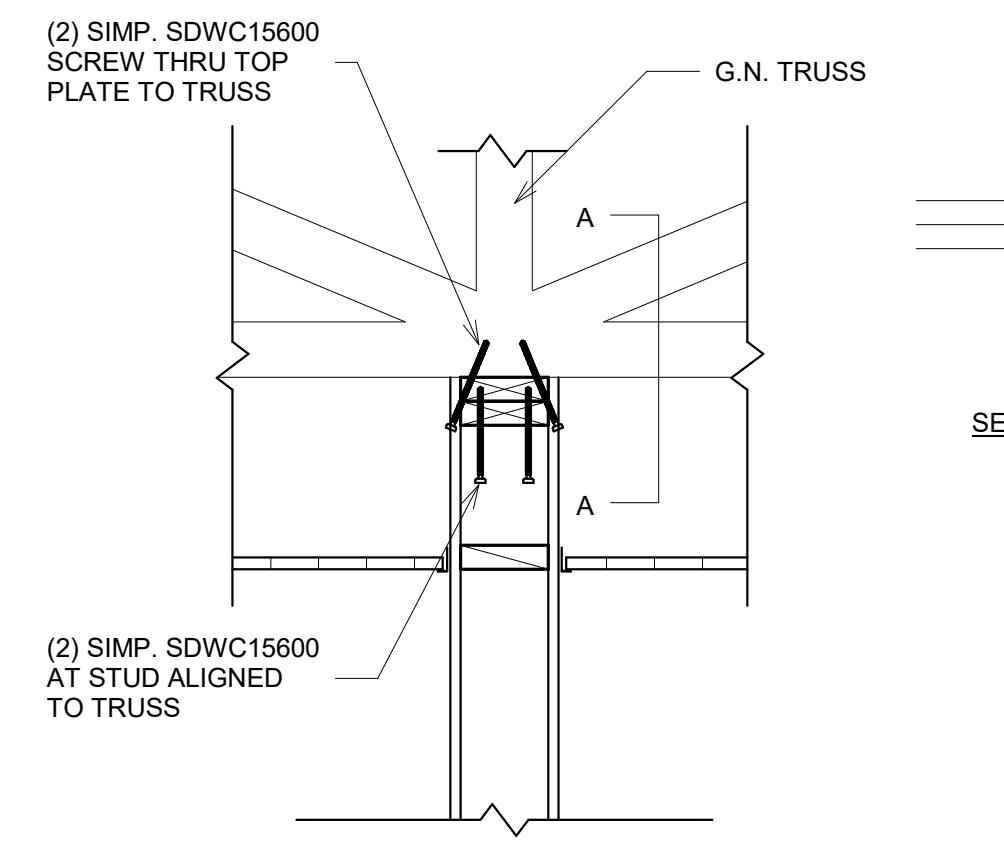
2 HEADER - EXT. WALL
1/2" = 1'-0"



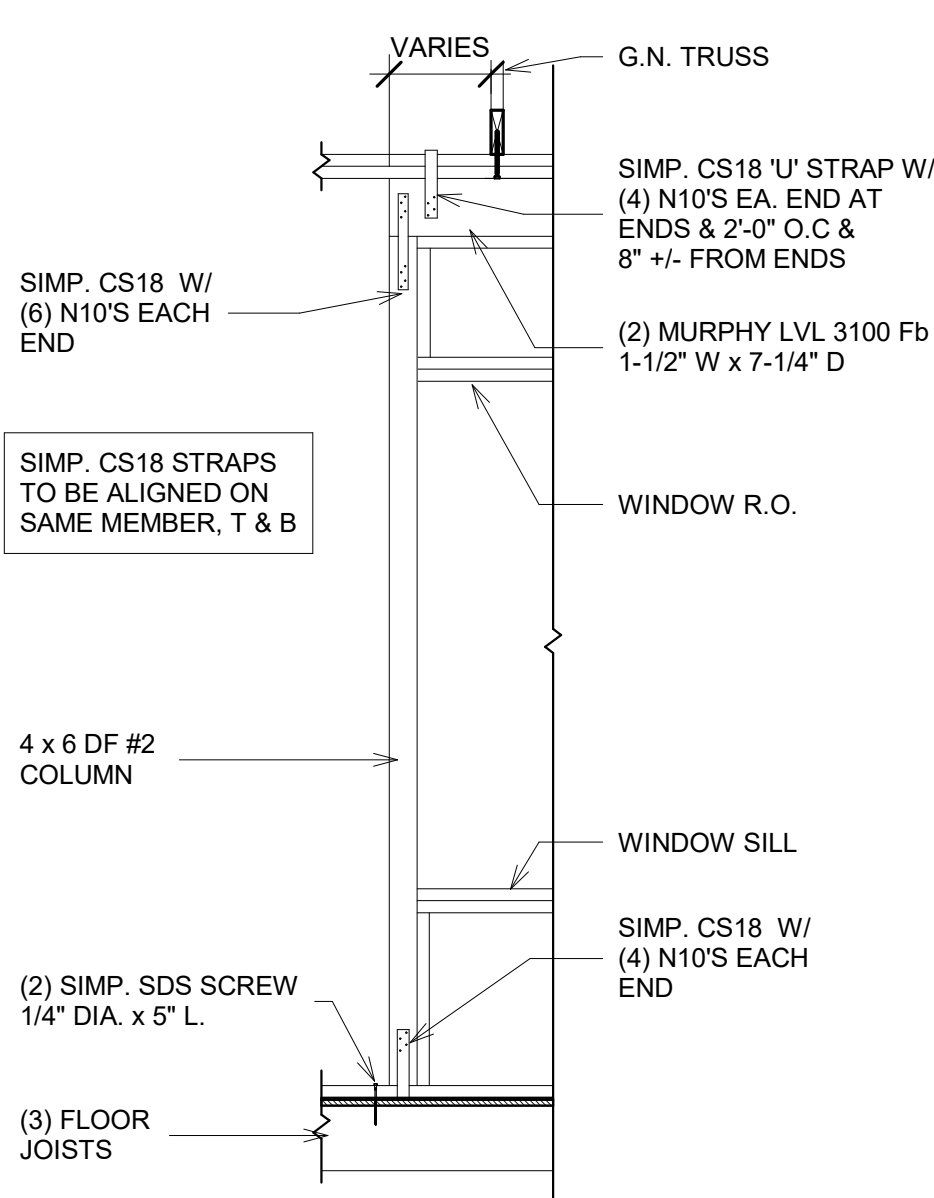
3 HEADER - INT. BEARING WALL
1/2" = 1'-0"



5 WALL - INTERIOR BEARING
1" = 1'-0"



6 WALL - INTERIOR BEARING (MOD 'A')
1" = 1'-0"



4 HEADER - INT. BEARING WALL (MOD 'A')
1/2" = 1'-0"

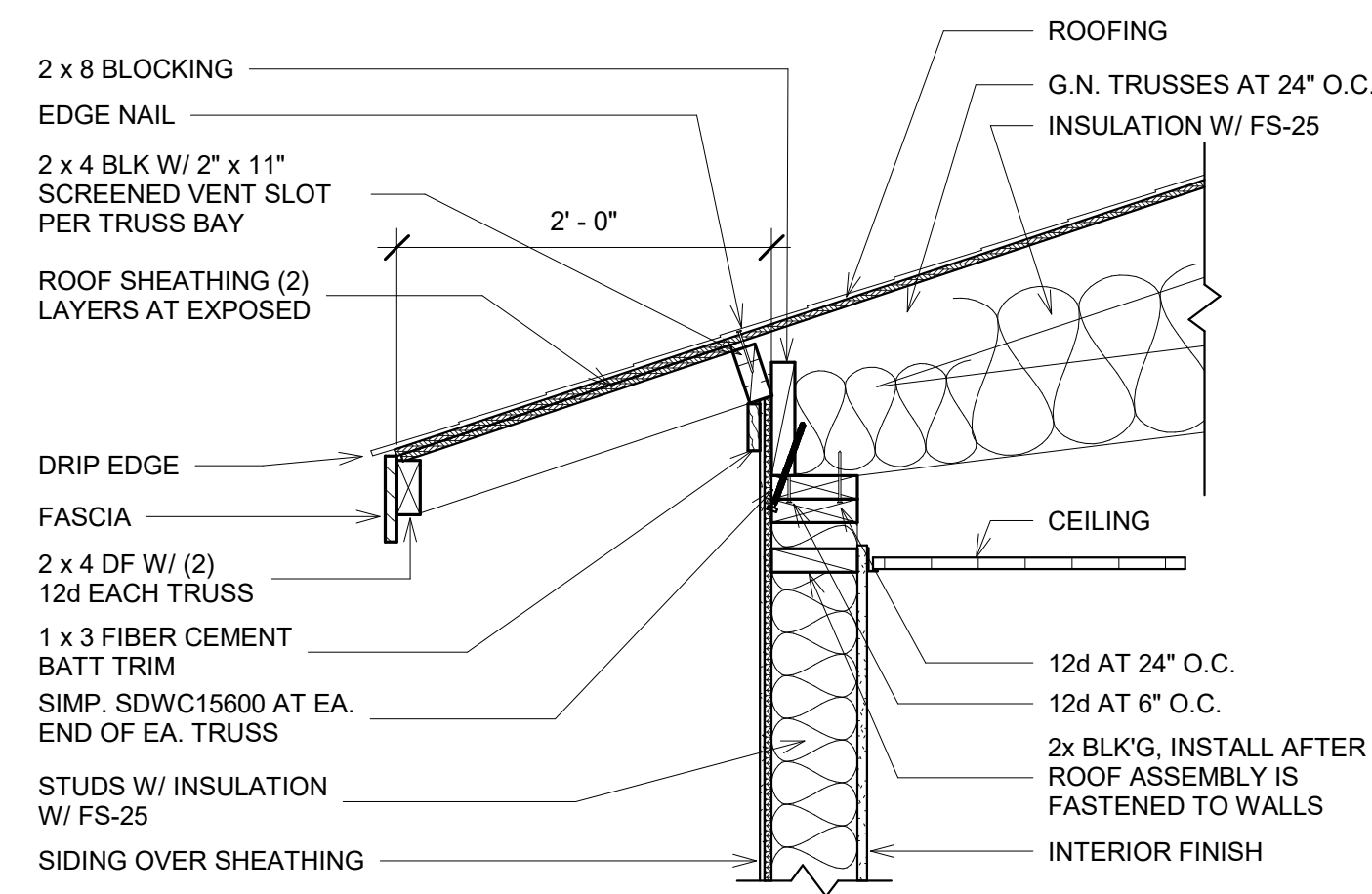
REV.	DESCRIPTION	DATE	BY

REUSE OF DOCUMENTS THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN ARE THE PROPERTY OF MODERN BUILDING SYSTEMS, LLC AND ARE NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER USE OR PROJECT WITHOUT WRITTEN AUTHORIZATION.

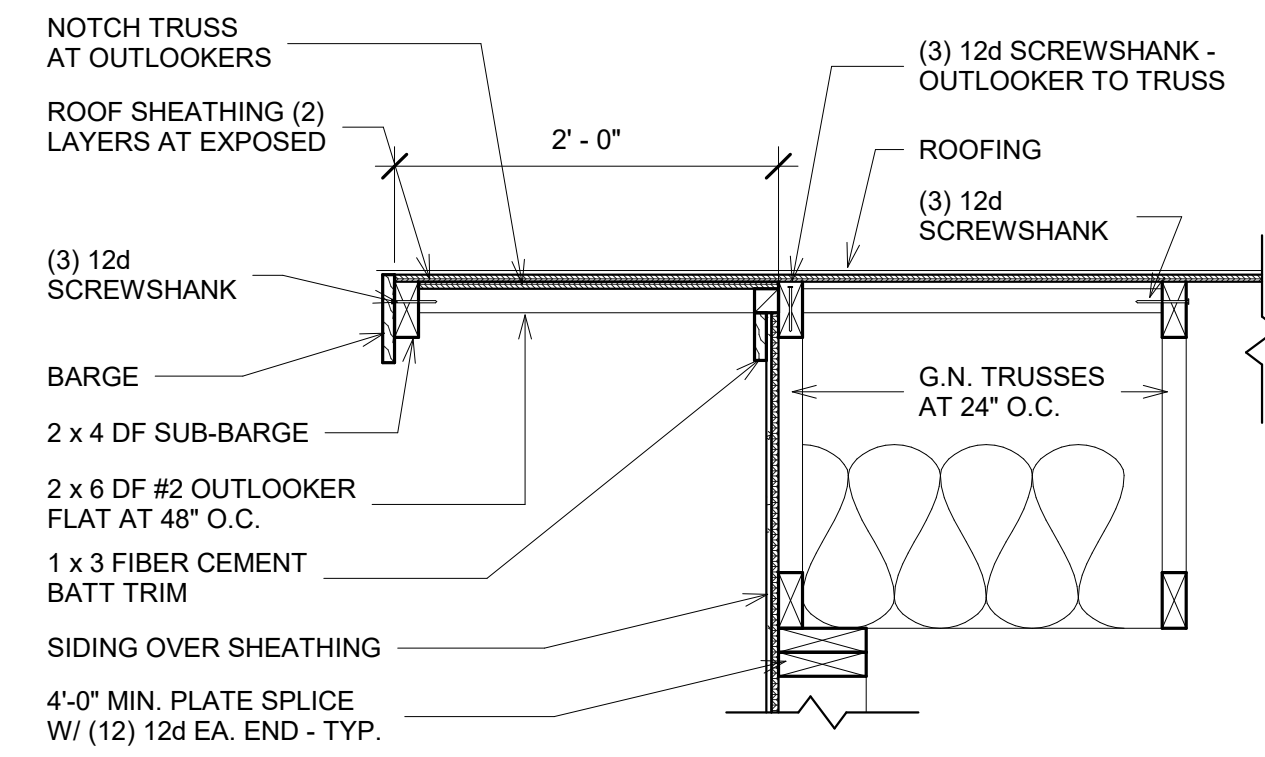


SHEET BUILDING SECTIONS		JOB# 2023-LB-01
PROJ.	112' x 64' MODULAR CHILDCARE	SHEET #
OSU - LITTLE KITS		S 3.1
ADDRESS	1500 SW CHANDLER AVENUE BEND, OR 97702	DATE 7/10/24 PRELIM

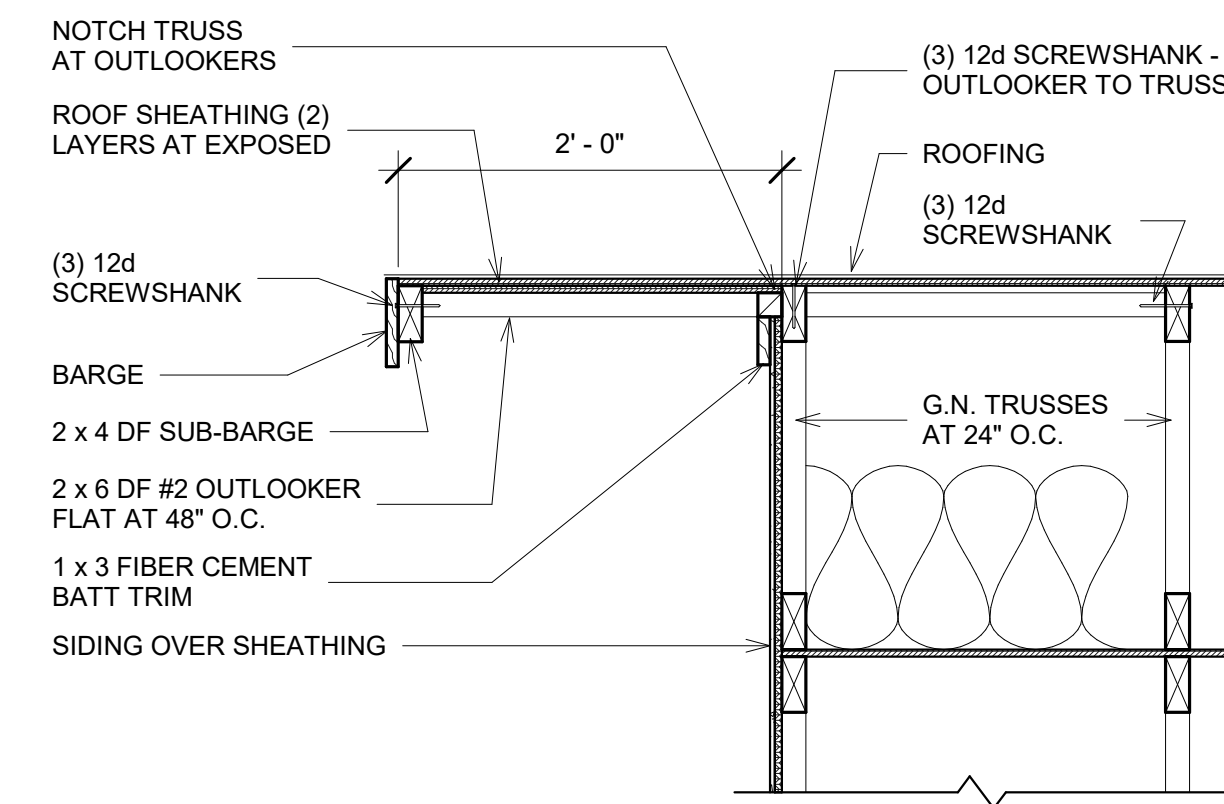
PRELIMINARY
NOT FOR
SUBMITTAL



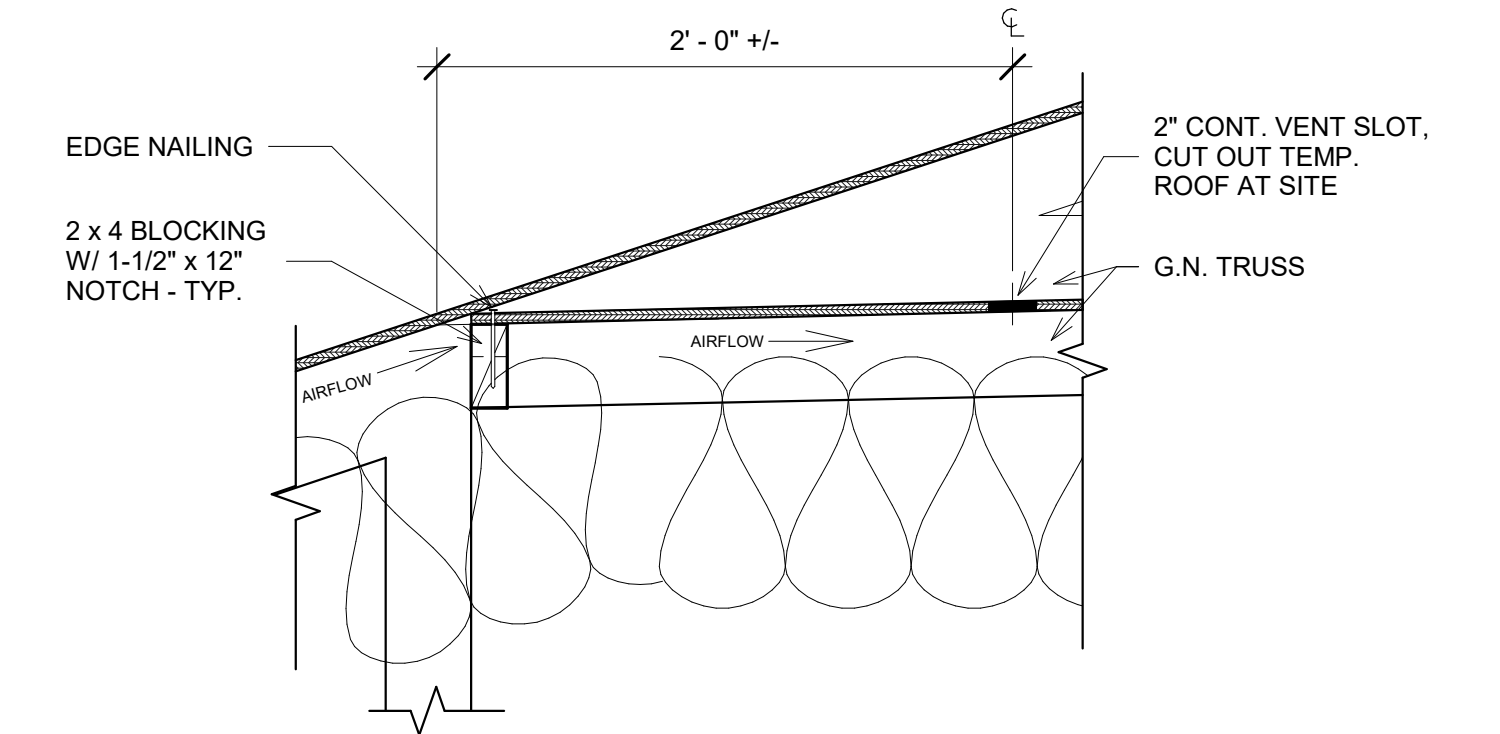
1 ROOF - MOD ENDWALL EAVE
1" = 1'-0"



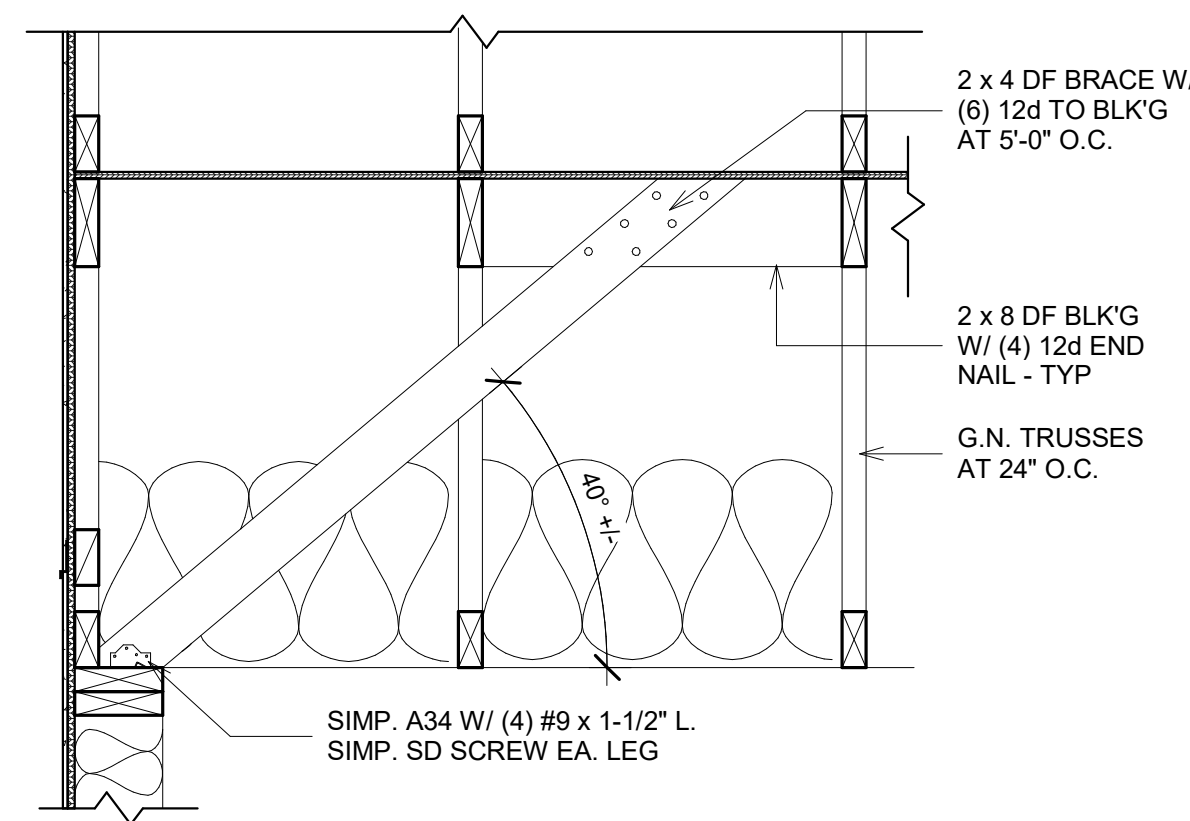
2 ROOF - MOD SIDEWALL GABLE AT SUB-ROOF
1" = 1'-0"



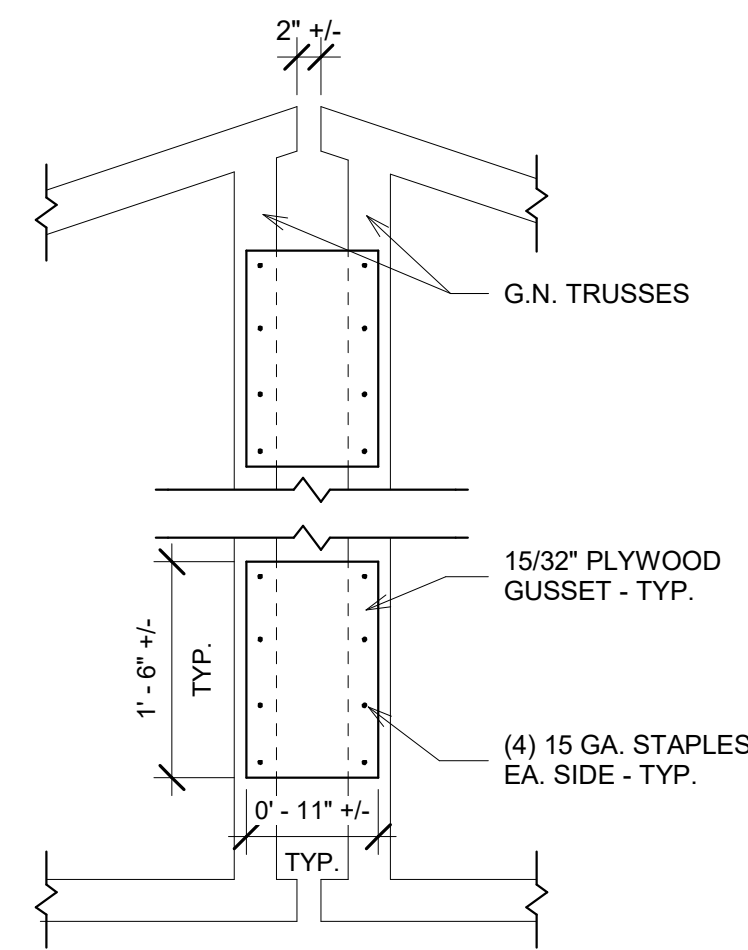
3 ROOF - MOD SIDEWALL GABLE
1" = 1'-0"



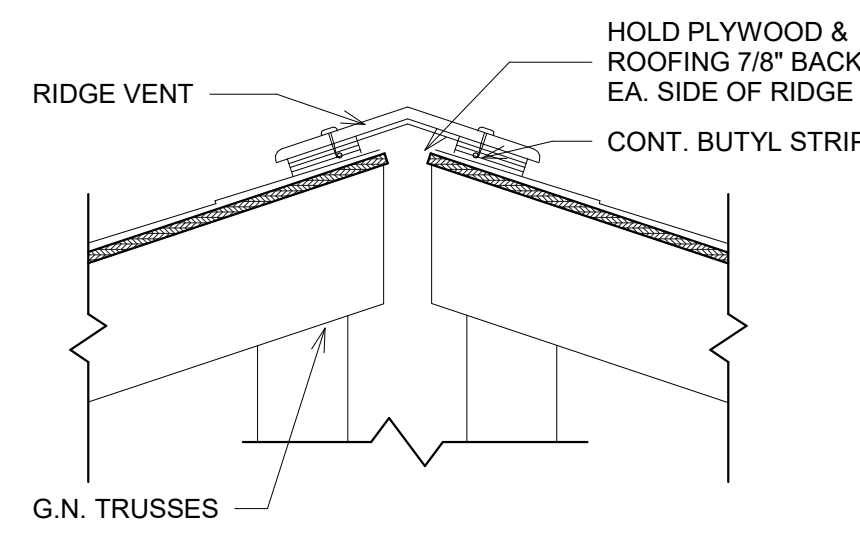
4 ROOF - VENTILATION AT SUB-ROOF
1 1/2" = 1'-0"



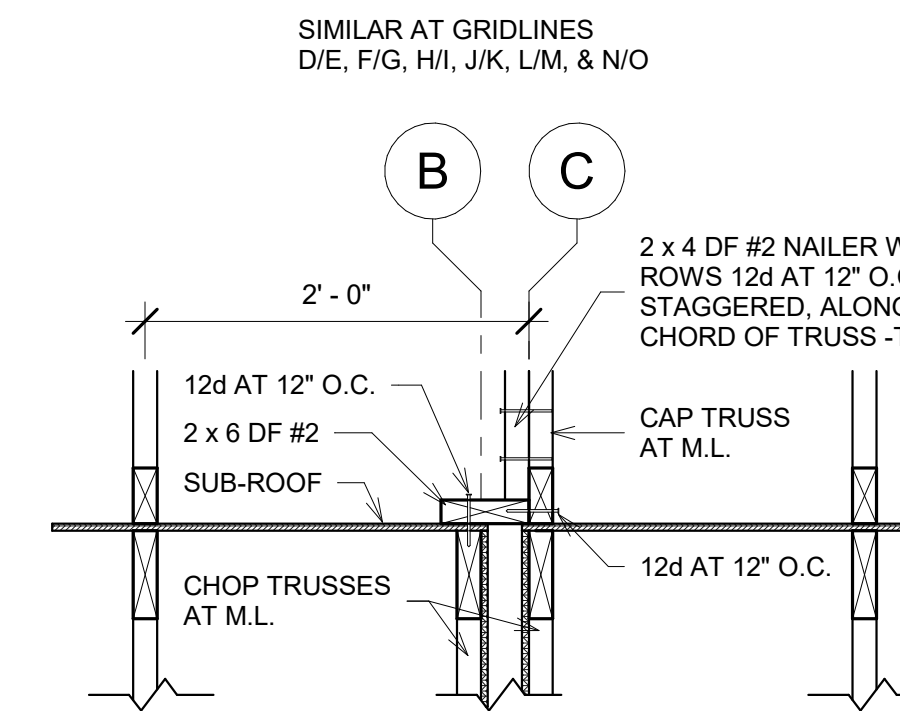
5 ROOF - GABLE TRUSS BRACING AT SUB-ROOF
1" = 1'-0"



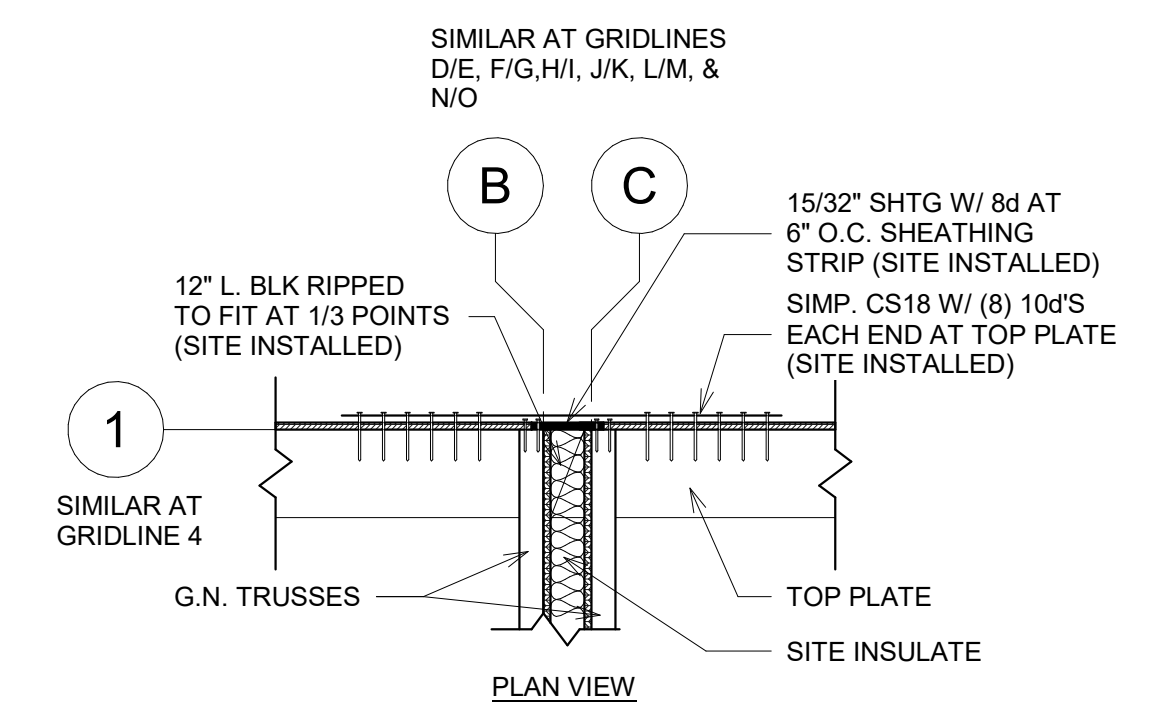
6 ROOF - TRUSS SPLICE
3/4" = 1'-0"



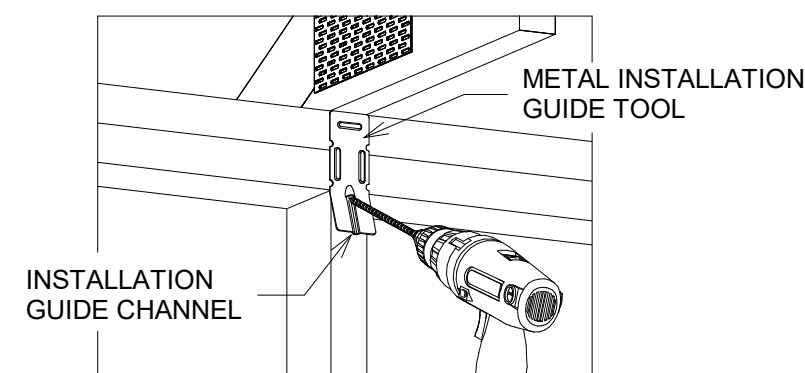
7 ROOF - RIDGE VENT
1 1/2" = 1'-0"



8 ROOF - MARRIAGE MOD SIDEWALL
1" = 1'-0"



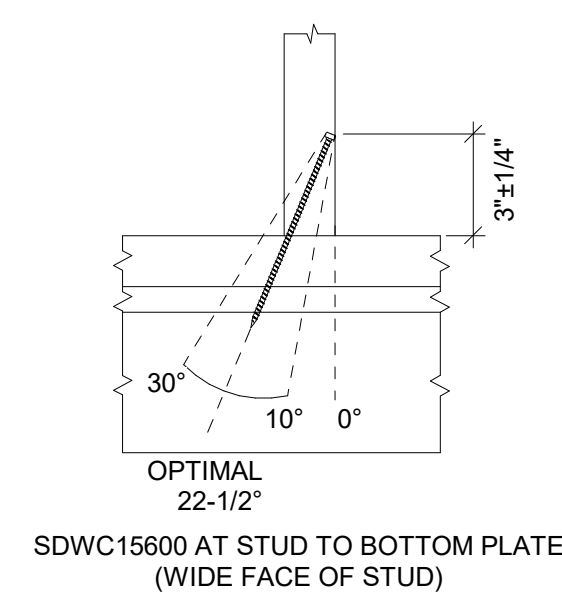
9 WALL - STRAP AT MARRIAGE
1" = 1'-0"



STEP 1 - ALIGN THE METAL INSTALLATION GUIDE TOOL (INCLUDED WITH THE TRUSS OR RAFTER, AND DRIVE THE TIP OF THE STRONG-DRIVE SDWC TO ENGAGE THE THREADS.

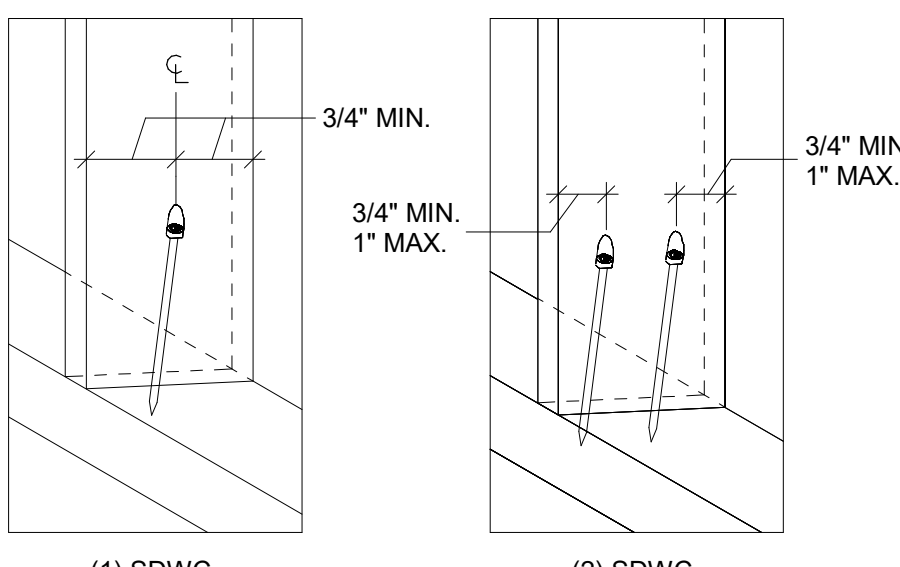
STEP 2 - WHILE CONTINUING TO DRIVE THE SDWC, "DROP" THE FASTENER HEAD INTO THE GUIDE CHANNEL TO ENSURE OPTIMAL INSTALLATION ANGLE OF 22.5°. THE INSTALLATION ANGLE RANGE IS 10° - 30° (SEE DETAIL). ONCE THE INSTALLATION ANGLE IS ESTABLISHED, THE METAL INSTALLATION GUIDE TOOL MAY BE REMOVED.

STEP 3 - DRIVE THE SDWC UNTIL THE HEAD OF THE FASTENER IS FULLY COUNTERSUNK INTO THE DOUBLE TOP PLATE. VERIFY THAT THE ENTIRE SHANK OF THE FASTENER IS INSTALLED INTO A WOOD MEMBER.



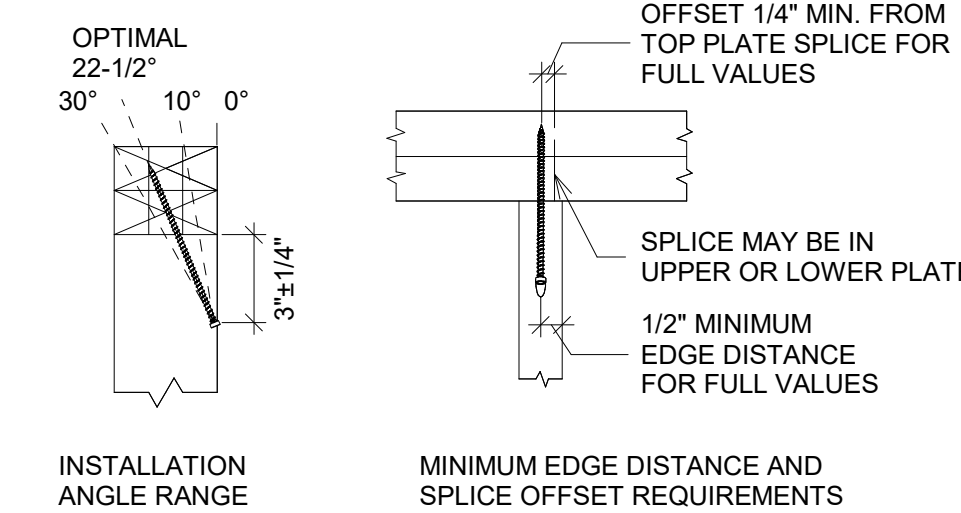
SDWC15600 AT STUD TO BOTTOM PLATE (WIDE FACE OF STUD)

10 SIMP. - SDWC INSTALLATION (ROOF TO WALL)
1/4" = 1'-0"

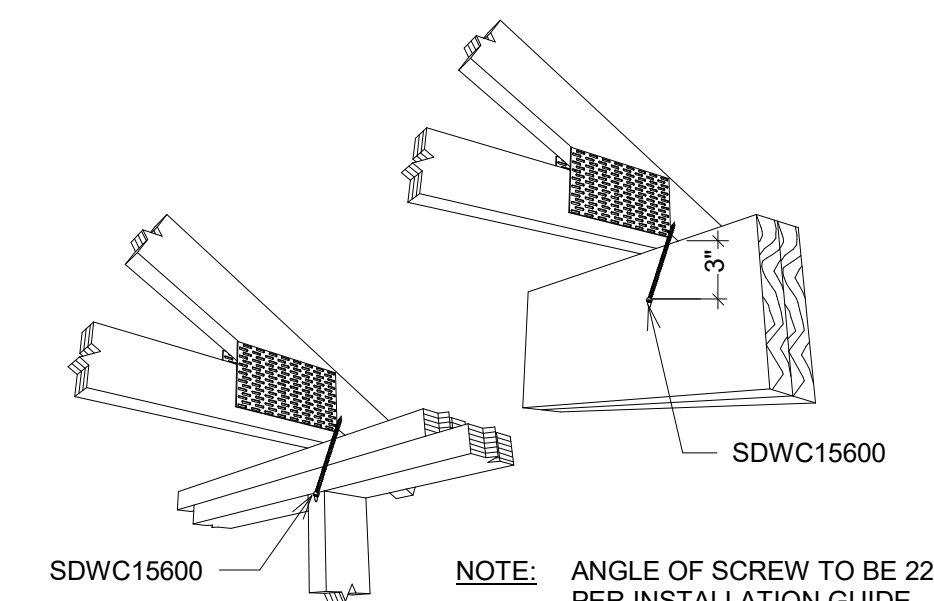


(1) SDWC (2) SDWC
NOTE: STUD - TO - BOTTOM PLATE SHOWN. ALL OTHER INSTALLATIONS SIMILAR

12 SIMP. - SDWC EDGE DISTANCE AND SPACING
1/4" = 1'-0"



13 SIMP. - NARROW FACE OF STUD TO TOP PLATE
1/4" = 1'-0"



14 SIMP. - SINGLE SDWC ROOF TO WALL OR BEAM
1/4" = 1'-0"

PRELIMINARY
NOT FOR
SUBMITTAL

REV.	DESCRIPTION	DATE	BY	REUSE OF DOCUMENTS THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN ARE THE PROPERTY OF MODERN BUILDING SYSTEMS, LLC AND ARE NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER USE OR PROJECT WITHOUT WRITTEN AUTHORIZATION.	MODERN BUILDING SYSTEMS, LLC TELEPHONE: (503) 766-8888 FAX: (503) 766-8900 P.O. BOX 110, 9405 PORTER ROAD, JUMBLEVILLE, OR 97025 CHECK OUT OUR WEB PAGE: WWW.MODERNBUILDINGSYSTEMS.COM © MODERN BUILDING SYSTEMS, LLC 2024	SHEET DETAILS	JOB#
						PROJ. 112' x 64' MODULAR CHILDCARE OSU - LITTLE KITS	2023-LB-01
						ADDRESS 1500 SW CHANDLER AVENUE BEND, OR 97702	SHEET # S 4.0
						DRW BJ DATE 7/10/24 PRELIM	

MAIN DISTRIBUTION PANEL PANEL A													
MOUNTING Surface													
PROJECT NO: 2023-LB-01													
DATE: 7/10/24 PRELIM													
Load Name	Rating	Circuit Number	Number of Poles	A	B	Number of Poles	Circuit Number	Rating	Load Name	Rating	Circuit Number	Number of Poles	Load Name
OU-1A	20 A	A1	2	2028 VA	3900 VA	2	A2	35 A	OU-2B	20 A	A3	2	2028 VA
--	--	A3	--	3900 VA	3900 VA	--	A4	--	--	--	A4	--	--
OU-2C	35 A	A5	2	3900 VA	3900 VA	2	A6	35 A	OU-2D	20 A	A7	2	3900 VA
--	--	A7	--	3900 VA	3900 VA	--	A8	--	--	--	A8	--	--
OU-2E	35 A	A9	2	3900 VA	3900 VA	2	A10	35 A	OU-2F	20 A	A9	2	3900 VA
--	--	A11	--	3900 VA	3900 VA	--	A12	--	--	--	A12	--	--
Exterior Receptacles	20 A	A13	1	720 VA	900 VA	1	A14	20 A	Exterior Receptacles	20 A	A13	1	720 VA
--	--	A15	--	1000 VA		--	A16	20 A	Fire Alarm	20 A	A15	1	1000 VA
--	--	A17	--			--	A18	--	--	--	A17	--	--
--	--	A19	--			--	A20	--	--	--	A19	--	--
--	--	A21	--			--	A22	--	--	--	A21	--	--
--	--	A23	--			--	A24	--	--	--	A23	--	--
--	--	A25	--			--	A26	--	--	--	A25	--	--
--	--	A27	--			--	A28	30 A	For Future Solar Electric	20 A	A27	2	0 VA
--	--	A29	--	0 VA		--	A30	--	--	--	A29	--	--
		TOTAL PANEL VA=		45676 VA				=TOTAL PANEL AMPS					190 A
BUSS SIZE		200 A				VOLTAGE		120/240 SINGLE					
MAIN BREAKER		200 A				PHASE		1					
ITEM	CONNECTED LOAD	DEMAND FACTOR	CALCULATED LOAD										
RECEPTACLE	1620 VA	100.00%	1620 W										
DED. RECEPTACLE			0 W										
MOTORS & COMPRESSORS													
LARGEST MOTOR													
HEATING & A/C (Per Mfg's Specs)													
TOTAL HEAT & A/C LOAD	43056 VA	100.00%	43056 W										
MISCELLANEOUS													
FIRE ALARM	1000 VA	100.00%	1000 W										
CONNECTED LOAD													
TOTAL VA =	45676 VA		TOTAL VA =	45676 VA									
TOTAL AMPS =	190 A		TOTAL AMPS =	190 A									

NOTE:
FIRE ALARM CIRCUIT
IDENTIFICATION AND
BREAKER LOCK ON
DEVICE AS PER NEC 760.41

MAIN DISTRIBUTION PANEL PANEL B													
MOUNTING Surface													
PROJECT NO: 2023-LB-01													
DATE: 7/10/24 PRELIM													
Load Name	Rating	Circuit Number	Number of Poles	A	B	Number of Poles	Circuit Number	Rating	Load Name	Rating	Circuit Number	Number of Poles	Load Name
ERV-3	20 A	B1	1	120 VA	192 VA	2	B2	20 A	ERV-1A	20 A	B1	1	120 VA
--	--	B3	--			--	B4	--	--	--	B3	--	--
ERV-1B	20 A	B5	2	192 VA	192 VA	2	B6	20 A	ERV-1C	20 A	B5	2	192 VA
--	--	B7	--	192 VA	192 VA	--	B8	--	--	--	B7	--	--
ERV-1D	20 A	B9	2	192 VA	192 VA	2	B10	20 A	ERV-1E	20 A	B9	2	192 VA
--	--	B11	--	192 VA	192 VA	--	B12	--	--	--	B11	--	--
ERV-2F	20 A	B13	2	468 VA	468 VA	2	B14	20 A	ERV-2G	20 A	B13	2	468 VA
--	--	B15	--	468 VA	468 VA	--	B16	--	--	--	B15	--	--
Dryer	30 A	B17	2	2500 VA	1500 VA	1	B18	40 A	Washer	20 A	B17	1	2500 VA
--	--	B19	--	2500 VA	7320 VA	1	B20	20 A	Dishwasher	20 A	B19	1	2500 VA
Range	50 A	B21	2	4000 VA	444 VA	1	B22	20 A	Kitchen Freezer	20 A	B21	1	4000 VA
--	--	B23	--	4000 VA	63 VA	1	B24	20 A	Hot Water Circulator	20 A	B23	1	4000 VA
Kitchen Refrigerator	20 A	B25	1	180 VA	1440 VA	1	B26	20 A	Service Receptacles	20 A	B25	1	180 VA
Water Heater	20 A	B27	2	2250 VA	0 VA	2	B28	30 A	For Future Solar Electric	20 A	B27	2	2250 VA
--	--	B29	--	2250 VA	0 VA	--	B30	--	--	--	B29	--	--
		TOTAL PANEL VA=		32359 VA				=TOTAL PANEL AMPS					135 A
BUSS SIZE		200 A				VOLTAGE		120/240 SINGLE					
MAIN BREAKER		200 A				PHASE		1					
ITEM	CONNECTED LOAD	DEMAND FACTOR	CALCULATED LOAD										
RECEPTACLE	1440 VA	100.00%	1440 W										
DED. RECEPTACLE			0 W										
MOTORS & COMPRESSORS													
LARGEST MOTOR													
HEATING & A/C (Per Mfg's Specs)													
TOTAL HEAT & A/C LOAD	3912 VA	100.00%	3912 W										
MISCELLANEOUS													
WATER HEATER	4500 VA	125.00%	5625 W										
HW RECIRCULATION...	63 VA	100.00%	63 W										
WASHER	1500 VA	100.00%	1500 W										
DRYER	5000 VA	100.00%	5000 W										
DISHWASHER	7320 VA	100.00%	7320 W										
RANGE	8000 VA	100.00%	8000 W										
REFRIGERATOR	180 VA	100.00%	180 W										
FREEZER	444 VA	100.00%	444 W										
CONNECTED LOAD													
TOTAL VA =	32359 VA		TOTAL VA =	33484 VA									
TOTAL AMPS =	135 A		TOTAL AMPS =	140 A									

ELECTRICAL LOAD SUMMARY

PANEL A: 45,676 VA
 PANEL B: 33,484 VA
 PANEL C: 27,183 VA
 TOTAL: 106,343 VA = 106.3 kVA
 106,343 / 240 = 443 A*

* NOTE:
ELECTRICAL LOAD HAS BEEN REDUCED TO
355 A PER THE ATTACHED OPTIONAL
CALCULATED DEMAND AS ALLOWED BY NEC
220.86

Oregon Lighting Load Reduction per the ASHRAE 90.1 Section 9.5.1

SF= 7,158 Reduced Demand Factor = 0.72

Step 1: Calculate the reduced lighting load

Reduced Demand Factor * Building Area = Reduced Lighting Load
 0.72 * 7,158.00 = 5154 VA

Optional Calculated Demand per the NEC 220.86

SF= 7,158 Total VA= 106,343

Voltage= 240 (208 or 240) Phase= 1 (1 or 3)

Step 1: Determine load per square footage

Total Calculated Demand / Square Footage = VA/ft²
 106,343 / 7,158 = 14.857 VA/ft²

Step 2: Calculate the demand load using Table 220.86

First 3 VA/ft² at 100%

3 x 100% = 3 VA/ft²

Next (VA/ft² for building) - 3 VA/ft²

14.857 - 3 = 11.857 VA/ft²

Next find remain VA/ft² at 75%

11.857 x 75% = 8.892 VA/ft²

Overall demand factor = (VA/ft² at 100%) + (VA/ft² at 75%)

3 + 8.892 = 11.892 VA/ft²

Step 3: Calculate reduced demand factor for School

Overall demand factor x square footage = New demand factor

11.892 x 7,158 = 85,126 VA

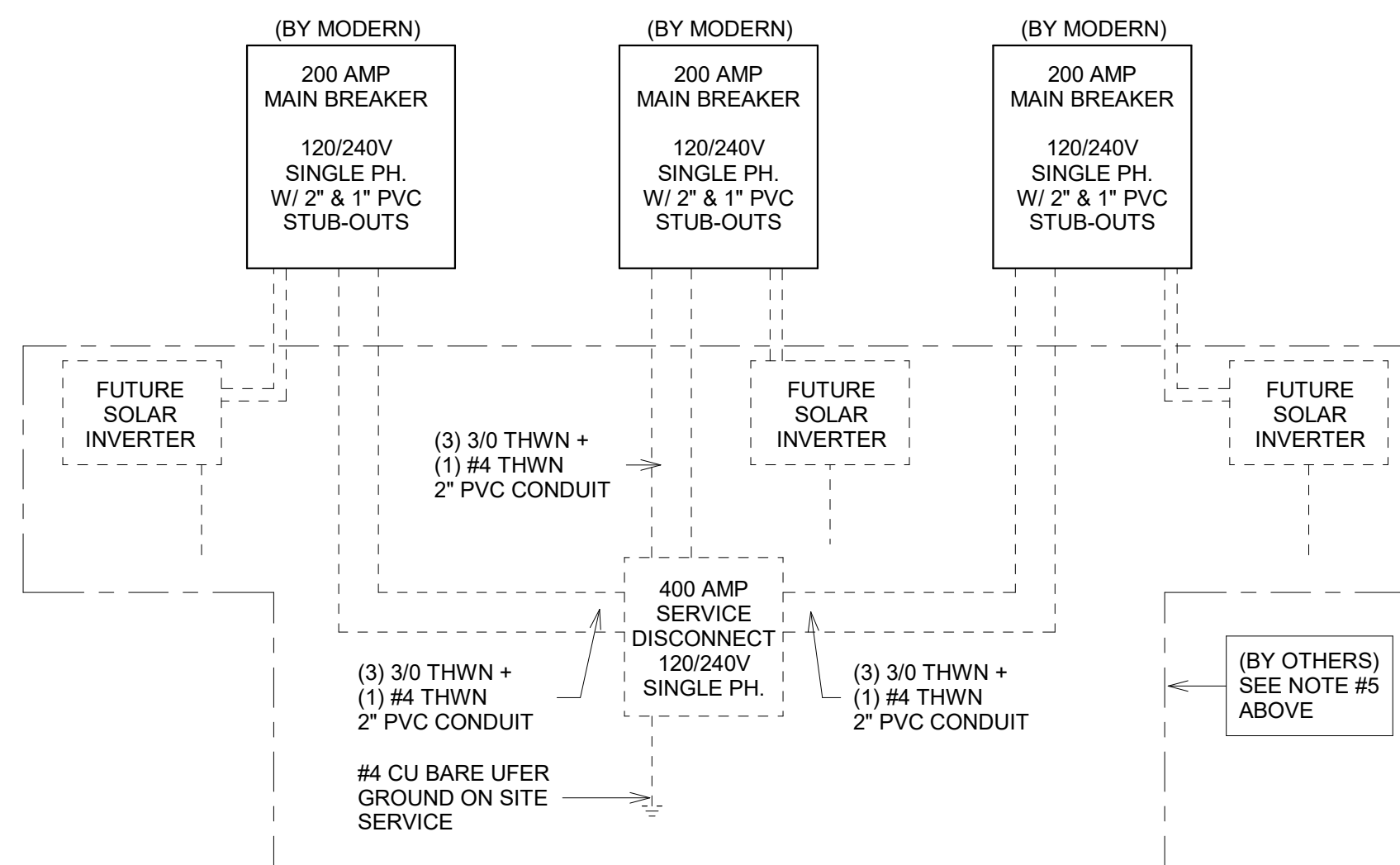
Convert to Amps

New Amps = New demand factor / building phase

85,126 / 240 = 355 A

ONE-LINE DIAGRAM NOTES

- EMT CONDUIT SHALL NOT BE USED WITH UNFUSED CONDUCTORS INSIDE BUILDING LINES
- FIELD VERIFY AIC RATING REQUIREMENTS
- N/A
- GROUNDING TO BE IN ACCORDANCE TO NEC 250
- SITE INSTALLED PORTION OF ELECTRICAL DISTRIBUTION SYSTEM DESIGN IS GENERIC SHALL BE INSTALLED IN ACCORDANCE WITH THESE APPROVED PLANS.



ONE-LINE DIAGRAM

NO SCALE

ELECTRICAL NOTES

- CONDUIT SHALL BE ELECTRICAL METALLIC TUBING AND METAL CLAD CABLE
- EXTERIOR RECEPTACLES SHALL BE WEATHER RESISTANT TYPE W/ IN USE WEATHERPROOF COVER
- BUILDING SERVICE SHALL BE SERVED BY ONLY ONE SERVICE OR FEEDER PER NEC 225.30 AND 230.2
- SERVICE OR FEEDER DISCONNECT SHALL BE INSTALLED PER NEC 230.70.
- PERMANENT MEANS OF LOCKING OUT DISCONNECT TO MECHANICAL UNIT(S) SHALL BE PROVIDED PER NEC 424.19
- PERMANENT MEANS OF LOCKING OUT DISCONNECT TO WATER HEATER(S) SHALL BE PROVIDED PER NEC 422.31(B)
- GASKET ALL EXTERIOR WALL BOX PLATE COVERS
- PER NEC 110.26D, ILLUMINATION FOR PANEL BOARDS, SWITCHBOARDS, AND SERVICE EQUIPMENT SHALL NOT BE CONTROLLED BY AUTOMATIC MEANS ONLY. A MANUAL MEANS TO BYPASS THE AUTOMATIC CONTROL IS REQUIRED.
- PER NEC 406.9(B)(1) 15 AND 20 AMP RECEPTACLES INSTALLED IN WET LOCATION SHALL HAVE AN ENCLOSURE THAT WEATHER-PROOF WHETHER OR NOT THE ATTACHMENT PLUG CAP IS INSERTED. AN OUTLET BOX HOOD INSTALLED FOR THIS PURPOSE SHALL BE LISTED AND SHALL BE IDENTIFIED AS EXTRA DUTY. RECEPTACLES SHALL BE LISTED AS WEATHER-RESISTANT TYPE.
- PER NEC 110.26, WORKING SPACE FOR EQUIPMENT OPERATING AT 600 VOLTS, NOMINAL, OR LESS TO GROUND AND LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE WHILE ENERGIZED SHALL COMPLY WITH THE DIMENSIONS OF 110.26(A)(1), (A)(2), AND (A)(3)
- PER NFPA 72, NEC 760 DEVICE AND JUNCTION BOXES FOR FIRE ALARM SYSTEMS OTHER THAN SURFACE RACEWAY TYPE MUST BE SUBSTANTIALLY RED IN COLOR BOTH INSIDE AND OUTSIDE. POWER LIMITED FIRE PROTECTIVE SIGNALING CIRCUIT CONDUCTORS MUST BE DURABLY AND PLAINLY MARKED IN OR ON JUNCTION BOXES OR OTHER ENCLOSURES TO INDICATE THAT IT IS POWER LIMITED FIRE PROTECTIVE SIGNALING CIRCUIT.
- PER NEC 110.22 IDENTIFICATION PLATES ON DISCONNECTING MEANS ARE TO SHOW DESIGNATION OF CIRCUIT SOURCE PANEL BOARD THAT SUPPLIES DISCONNECT AND IDENTIFY WHAT IT IS DISCONNECTING. MUST BE AN IDENTIFICATION PLATE
- PER NEC 406.3E, ALL NONLOCKING TYPE, 125 VA, 15 AMP, AND 20 AMP RECEPTACLES THAT ARE CONTROLLED BY AN AUTOMATIC CONTROL DEVICE, OR THAT INCORPORATE CONTROL FEATURES THAT REMOVE POWER FROM THE OUTLET FOR THE PURPOSE OF ENERGY MANAGEMENT OR BUILDING AUTOMATION, SHALL BE MARKED WITH THE SYMBOL SHOWN IN FIGURE 406.3E AND LOCATED ON THE CONTROLLED RECEPTACLE OUTLET WHERE VISIBLE AFTER INSTALLATION
- FIRE ALARM POWER SOURCE AND BRANCH CIRCUITS TO COMPLY WITH NEC 760.41(A)(8), THE FIRE ALARM CIRCUIT DISCONNECT SHALL BE PERMITTED TO BE SECURED IN THE "ON" POSITION. THE CIRCUIT DISCONNECTING MEANS SHALL HAVE RED IDENTIFICATION, SHALL BE ACCESSIBLE ONLY TO QUALIFIED PERSONNEL, AND SHALL BE IDENTIFIED AS "FIRE ALARM CIRCUIT".

REV.	DESCRIPTION	DATE	BY
	REUSE OF DOCUMENTS THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN ARE THE PROPERTY OF MODERN BUILDING SYSTEMS, LLC AND ARE NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER USE OR PROJECT WITHOUT WRITTEN AUTHORIZATION.		



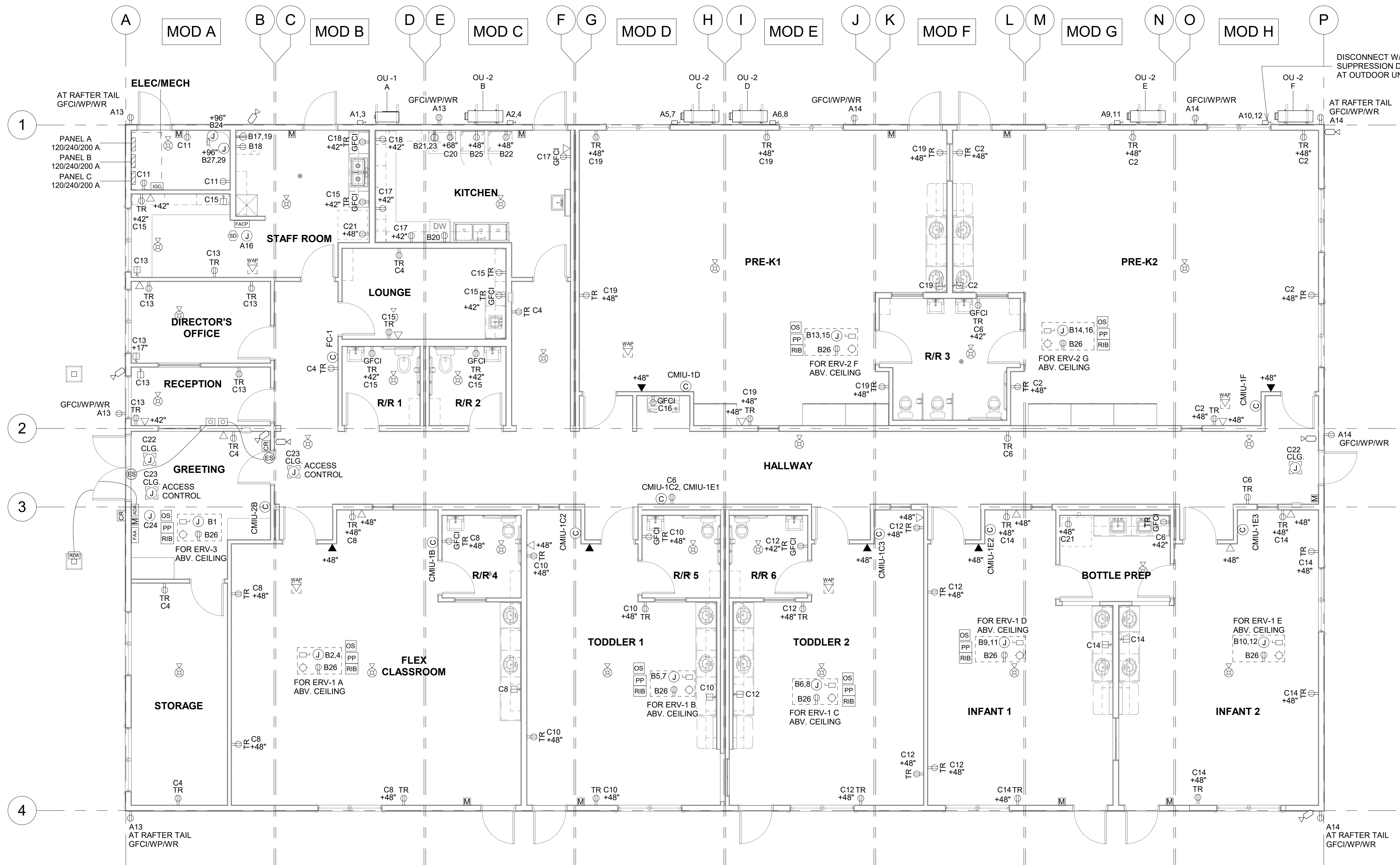
SHEET ELEC. PANELS & LOAD CALCS.
 PROJ. 112' x 64' MODULAR CHILDCARE
 OSU - LITTLE KITS
 ADDRESS 1500 SW CHANDLER AVENUE BEND, OR 97702

JOB# 2023-LB-01
 SHEET # E 0.1
 DATE 7/10/24 PRELIM

PRELIMINARY
 NOT FOR
 SUBMITTAL

ELECTRICAL SYMBOLS LEGEND		
SYMBOL	DESCRIPTION	HEIGHT € (U.N.O)
⊕	DUPLEX RECEPTACLE +17" A.F.F. (U.N.O.) GFCI = GROUND FAULT CIRCUIT INTERRUPTER WP = IN USE WEATHERPROOF COVER WR = WATER RESISTANT RECEPTACLE TR = TAMPER RESISTANT	+17"
⊕	220 RECEPTACLE	+17"
⊕	USB RECEPTACLE	+42"
▽	2-PLEX DATA BOX - 1" CONDUIT UP (RACEWAY ONLY)	+17"
▽	PHONE BOX - 1" CONDUIT UP (RACEWAY ONLY)	+17"
WAP	WIRELESS ACCESS POINT - BY OTHERS	CEILING
J	JUNCTION BOX	-
C	INDOOR UNIT CONTROLLER	+48" TOP
⊕	OCCUPANCY SENSOR	CEILING
⊕	DISCONNECT W/ SURGE SUPPRESSION DEVICE	-
⊕	EQUIPMENT SERVICE LIGHT W/ SWITCH	-
OS	ERV OCCUPANCY SENSOR	CEILING
PP	ERV POWER PACK	ATTIC
RIB	ERV RELAY IN BOX	ATTIC
IGC	IRRIGATION CONTROL UNIT - BY OTHERS	+48" TOP

ACCESS / SECURITY SYMBOLS		
SYMBOL	DESCRIPTION	HEIGHT € (U.N.O)
ES	ELECTRIC STRIKE: 3/4" CONDUIT FROM JUNCTION BOX IN CEILING TO DOOR FRAME FOR ELECTRIFIED PANIC HARDWARE	-
⊕	DOOR RELEASE PUSH BUTTON: 3/4" CONDUIT FROM ELECTRIC PANIC TO BUTTON	+42"
⊕	CCTV CAMERA BOX - 3/4" CONDUIT UP (RACEWAY ONLY)	+84"
CR	CARD READER (BY OTHERS) WALL BOX - 3/4" CONDUIT UP TO ABOVE CEILING (RACEWAY ONLY) BY WILLSCOT	+48" TOP
M	MANUAL PULL STATION (RACEWAY ONLY)	+45"
FACP	FIRE ALARM CONTROL PANEL (RACEWAY ONLY)	+72" TOP
FAA	FIRE ALARM ANNUNCIATOR (RACEWAY ONLY)	+72" TOP
⊕	AUDIO/VISUAL FIRE ALARM (BY OTHERS)	CEILING
SD	SMOKE DETECTOR (BY OTHERS)	CEILING
ADA	ADA DOOR OPENER BUTTON	+48" TOP



1 ELECTRICAL PLAN
3/16" = 1'-0"

PRELIMINARY
NOT FOR
SUBMITTAL

REV.	DESCRIPTION	DATE	BY	MODERN BUILDING SYSTEMS, LLC		SHEET ELECTRICAL PLAN		JOB#
				REUSE OF DOCUMENTS THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN ARE THE PROPERTY OF MODERN BUILDING SYSTEMS, LLC AND ARE NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER USE OR PROJECT WITHOUT WRITTEN AUTHORIZATION.		112' x 64' MODULAR CHILDCARE OSU - LITTLE KITS		2023-LB-01
				MODERN BUILDING SYSTEMS, LLC TELEPHONE: (503) 766-8889 FAX: (503) 766-8900 P.O. BOX 110, 9405 PORTER ROAD, JUMBLEVILLE, OR 97025 CHECK OUT OUR WEB PAGE: www.modernbuilding.com		SHEET # E 1.0		
				ADDRESS 1500 SW CHANDLER AVENUE BEND, OR 97702		DATE 7/10/24 PRELIM		DRW BJ

LIGHTING PLAN NOTES

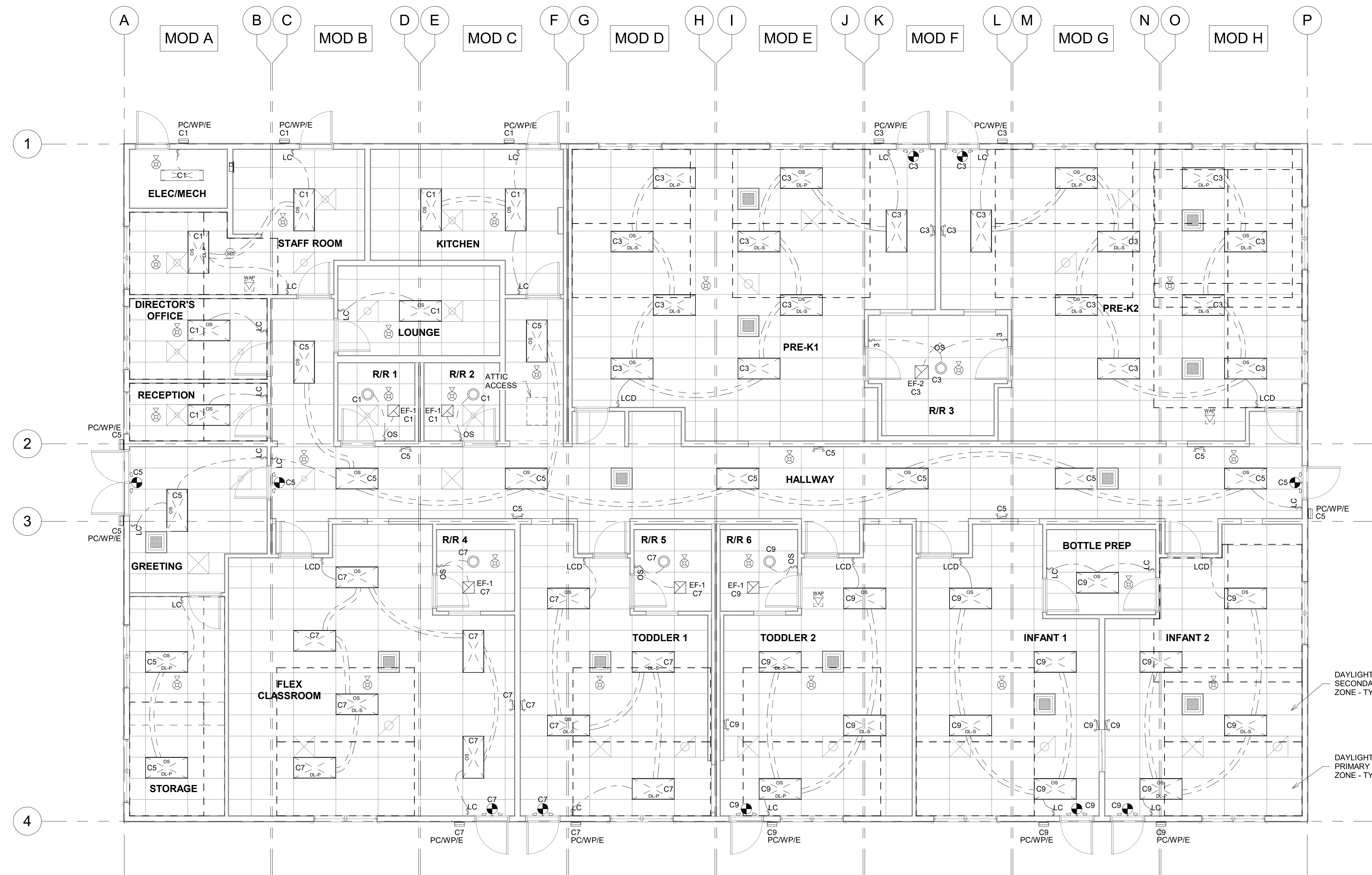
- CONTROLLED RECEPTACLES ARE NOT REQUIRED PER OESCC E301.3.b EXCEPTION #5C, AS EXCEPTIONS TO ASHRAE 9.4.2
- OCCUPANCY SENSOR(S) IN EACH ROOM WILL BE WIRED TO CONTROL ALL LIGHT FIXTURES IN THAT ROOM.
- LIGHT WIRING AS SHOWN IS FOR GENERAL CONTROL CLARIFICATION ONLY. ACTUAL WIRING FOR CONTROLS (I.E. SWITCHES, OCCUPANCY SENSORS AND DAYLIGHT SENSORS) SHALL BE PER CONTROL MANUFACTURER'S SPECIFICATIONS AND AS NECESSARY TO MEET THE CODE REQUIREMENTS FOR EACH CONTROL AND THE LIGHT FIXTURES CONNECTED TO IT.
- DAYLIGHT RESPONSIVE CONTROLS ARE NOT REQUIRED IN ZONES WITH LESS THAN 150 WATTS IN GENERAL PRIMARY SIDELIGHTING AREAS. DAYLIGHT ZONES INCLUDING BOTH PRIMARY AND SECONDARY SIDELIGHTED AREA LESS THAN 300 WATTS ARE NOT REQUIRED. WHEN REQUIRED, SIDELIGHTING AREAS SHALL BE CONTROLLED BY PHOTOCONTROLS, PER ASHRAE 9.4.1.1(e)
- BUILDING FACADE LIGHTING OTHER THAN ENTRY DOORS, SHALL HAVE CONTROLS PER ASHRAE 9.4.1.4(b) TO AUTOMATICALLY SHUT OFF FACADE LIGHTING BETWEEN MIDNIGHT OR BUSINESS CLOSING, WHICHEVER IS LATER, AND 6 A.M. OR BUSINESS OPENING, WHICHEVER COMES FIRST.

LIGHTING SYMBOLS LEGEND

SYMBOL	DESCRIPTION	HEIGHT (U.N.O)
	2' x 4' LED LAY-IN FIXTURE	CEILING
	OS = INTEGRAL nLIGHT OCCUPANCY SENSOR	CEILING
	DL-X = INTEGRAL nLIGHT DAYLIGHT SENSOR	CEILING
	2' x 4' LED LAY-IN FIXTURE - nLIGHT ENABLED	CEILING
	1' x 4' LED SURFACE MOUNT FIXTURE	CEILING
	13" LED SURFACE MOUNT FIXTURE	CEILING
	EXTERIOR LED WALL MOUNT LIGHT FIXTURE 30W	+96"
	PC = PHOTOCELL	
	WP = WEATHERPROOF	
	E = EMERGENCY LIGHT W/ BATTERY BACKUP	
	EXIT LIGHT W/ EMERGENCY LIGHTS AND BATTERY BACK-UP (5 WATT MAX.)	-
	EMERGENCY LIGHT - W/ BATTERY BACK-UP	+86"
	OCCUPANCY SENSOR	CEILING
	SINGLE POLE SWITCH	+48" TOP
	OCCUPANCY SWITCH SENSOR - W/ MANUAL ON	+48" TOP
	LIGHTING CONTROL WALL SWITCH	+48" TOP
	LIGHTING CONTROL WALL SWITCH - DIMMABLE	+48" TOP
	WIRELESS ACCESS POINT - BY OTHERS	CEILING
	AUDIOVISUAL FIRE ALARM (BY OTHERS)	CEILING
	SMOKE DETECTOR (BY OTHERS)	CEILING

LIGHT FIXTURE WIRING LEGEND

- 120V POWER
- CAT5 CABLE



1 LIGHTING PLAN
3/16" = 1'-0"

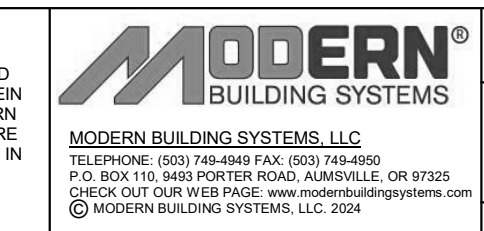
EXTERIOR LIGHTING SUMMARY

SUBSTITUTIONS WITH EQUAL OR BETTER PERFORMING PRODUCTS ALLOWED WITH APPROVAL FROM MODERN					
Description	Model	Quantity	Lamp	Wattage	Total Wattage
EMERGENCY WALL MOUNT FIXTURE	LITHONIA, WPX1 LED P1 40k MVOLT E4WH DDBXD M4	13	LED	12 W	156 W
Total		13			156 W

INTERIOR LIGHTING SUMMARY

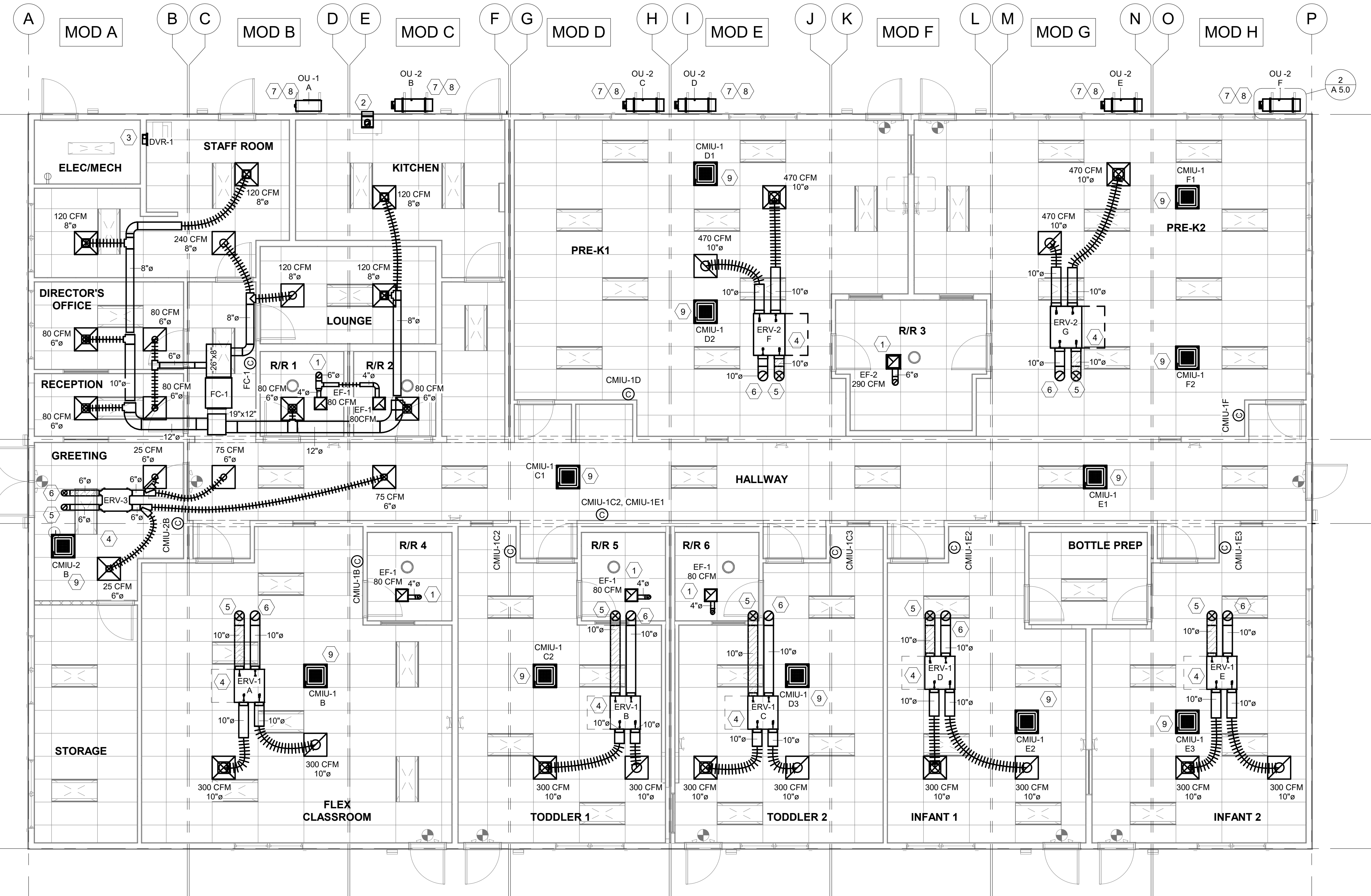
SUBSTITUTIONS WITH EQUAL OR BETTER PERFORMING PRODUCTS ALLOWED WITH APPROVAL FROM MODERN					
Description	Model	Quantity	Lamp	Wattage	Total Wattage
1'x4' SURFACE MOUNT FIXTURE	LITHONIA, LBL4	1	LED	41 W	41 W
2'x4' LAY-IN FIXTURE	LITHONIA, 2BLT4	58	LED	34 W	1972 W
13" DIA. SURFACE MOUNT FIXTURE	LITHONIA, FMML 13 840	1	LED	28 W	28 W
EMERGENCY WALL MOUNT FIXTURE	LITHONIA, ELM2 LED M12	12	LED	0 W	0 W
EXIT / EMERGENCY WALL MOUNT FIXTURE	COOPER/SURELITES, APC7R	10	LED	0 W	0 W
Total		82			2041 W

REV.	DESCRIPTION	DATE	BY



SHEET LIGHTING PLAN		JOB# 2023-LB-01
PROJ.	112' x 64' MODULAR CHILDCARE	SHEET #
	OSU - LITTLE KITS	E 2.0
ADDRESS	1500 SW CHANDLER AVENUE BEND, OR 97702	DRW BJ
		DATE 7/10/24 PRELIM

PRELIMINARY
NOT FOR
SUBMITTAL



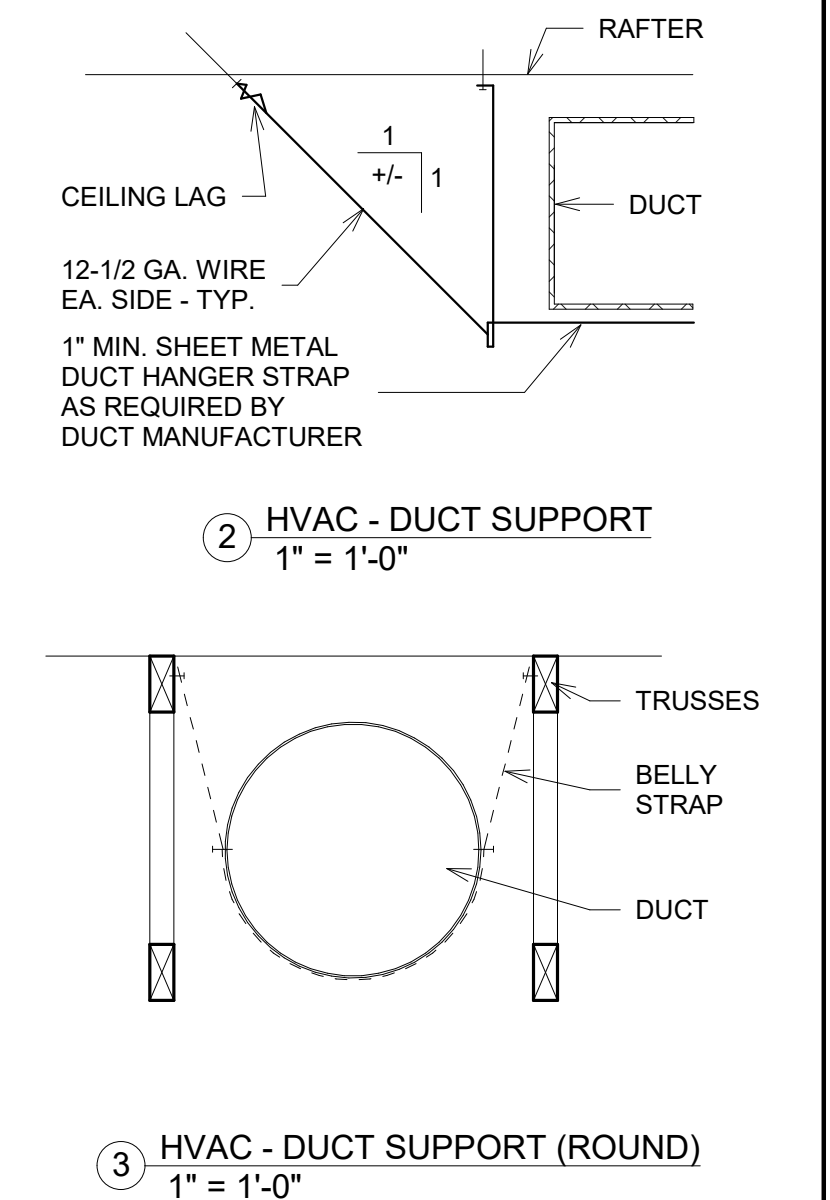
HVAC PLAN KEYNOTES

- EXHAUST FAN, DUCT ROUTED TO SUB-ROOF. COMPLETION OF DUCTING TO ROOF CAP TO BE DONE ON SITE
- RESIDENTIAL RANGE HOOD DUCT TO 6" ROOF CAP (RC-1). (PROVIDES 300 CFM OF EXHAUST AIR). 10'-0" SEPARATION FROM MECHANICAL EQUIPMENT AIR INTAKE
- DRYER VENT BOX VENTED TO OUTDOORS VIA DUCT DOWN TO CRAWLSPACE AND OVER TO FOUNDATION VENT
- PROVIDE MIN. 30" CLEAR SERVICE ACCESS ABOVE CEILING AT INDOOR CEILING UNITS
- ERV OUTSIDE AIR (O/A) DUCT ROUTED TO SUB-ROOF, W/ FSK INSULATION R-4.2. COMPLETION OF DUCTING IN ATTIC TO BE DONE ON-SITE.
- ERV EXHAUST AIR (E/A) DUCT ROUTED TO SUB-ROOF. COMPLETION OF DUCTING IN ATTIC TO BE DONE ON-SITE.
- RUN REFRIGERANT LINES TO INDOOR UNITS WITHIN EXTERIOR WALL AND ABOVE CEILING PER MANUFACTURER'S INSTRUCTIONS.
- 16 GA. PERFORATED SHIPPING STRAP (PRIME AND PAINT)
- GRAVITY DRAIN CONDENSATE FROM INDOOR CEILING UNITS ABOVE CEILING TO NEAREST EXTERIOR WALL

MECHANICAL NOTES

- CONTROLS:**
MINI-SPLIT CONTROLLER:
DAIKIN BRC1E73

WIRING ADAPTER:
DAIKIN KRP1C74 (DAIKIN RX24RMJU ONLY)
- DUCTWORK:**
MATERIAL:
1" FIBERGLASS (R-4.3) OR 24 GA. SHEET METAL W/ 26 GA. SHEET METAL ROUNDS AND FLEX DUCT ROUNDS AT DIFFUSERS
INSULATING AND SEALING:
DUCTWORK TO BE INSULATED AND SEALED PER IECC 403.11.1
CONSTRUCTION:
DUCTWORK TO BE CONSTRUCTED AS LOW PRESSURE DUCT SYSTEM PER IECC 403.11.2.1
EXHAUST OUTLETS:
FOR ENVIRONMENTAL AIR EXHAUST, A MINIMUM DISTANCE OF: 3 FEET FROM THE PROPERTY LINES; 3 FEET FROM OPERABLE OPENINGS INTO BUILDINGS, AND 10 FEET FROM MECHANICAL AIR INTAKES SHALL BE PROVIDED PER IMC 501.3.1.3
- VOLUME DAMPERS:**
PROVIDE VOLUME DAMPERS TO CONTROL AIRFLOW AT EACH TAKE-OFF
- PENETRATIONS:** THROUGH-WALL PENETRATIONS OF MECHANICAL EQUIPMENT PER C402.1.4.3. OPENING AREA TO BE LESS THAN 1% OF GROSS WALL AREA - NO ACTION REQUIRED



HVAC SYMBOLS LEGEND

SYMBOL	DESCRIPTION	HEIGHT (U.N.O.)
[Square with X]	2' x 2' LAY-IN SUPPLY DIFFUSER	CEILING
[Square with diagonal lines]	2' x 2' LAY-IN RETURN GRILLE	CEILING
[Square with horizontal lines]	12" x 12" LAY-IN SUPPLY DIFFUSER	CEILING
[Square with vertical lines]	12" x 12" LAY-IN RETURN GRILLE	CEILING
[Square with fan symbol]	EXHAUST FAN	CEILING
[Wavy line]	FLEX DUCT	ATTIC
[Circle with C]	INDOOR UNIT CONTROLLER	+48" TOP

HVAC PLAN
3/16" = 1'-0"

MIN. VENTILATION/EXHAUST RATES (OMSC/IMC SECTION 403.3)

Ez = 0.8 FOR SUPPLY/RETURN IN THE CEILING & Ez = 1.0 FOR RETURN IN THE FLOOR PER IMC TABLE 403.3.1.1.2

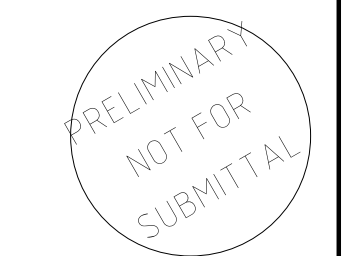
Name	Area (Az)	Occ. Density (#/1000 FT2)	People Airflow Rate (Rp) (CFM/Person)	Area Outdoor Airflow Rate (Ra) (CFM/FT2)	Exhaust Airflow Rate (CFM/FT2)	Qty. Flush Fixt.	Occ. Load (Pz)	Occ. Airflow (CFM)	Area Airflow (CFM)	Exhaust Airflow (CFM)	Air Flow Effectiveness (Ez)	Zone Outdoor Airflow Rate
BOTTLE PREP	82 SF	25	10	0.18	0	0	3	30	15	0	0.8	57
DIRECTOR'S OFFICE	99 SF	5	5	0.06	0	0	1	5	6	0	0.8	14
ELEC/MECH	51 SF	0	0	0	0	0	0	0	0	0	0	0
FLEX CLASSROOM	647 SF	25	10	0.18	0	0	17	170	117	0	0.8	359
GREETING	164 SF	10	5	0.06	0	0	2	10	10	0	0.8	25
HALLWAY	660 SF	0	0	0.06	0	0	0	0	40	0	0.8	50
INFANT 1	411 SF	25	10	0.18	0	0	11	110	75	0	0.8	232
INFANT 2	448 SF	25	10	0.18	0	0	12	120	81	0	0.8	252
KITCHEN	207 SF	20	7.5	0.12	0.7	0	5	38	25	0	0.8	79
LOUNGE	129 SF	5	5	0.06	0	0	1	5	8	0	0.8	17
PRE-K1	834 SF	25	10	0.18	0	0	21	210	151	0	0.8	452
PRE-K2	846 SF	25	10	0.18	0	0	22	220	153	0	0.8	467
R/R 1	53 SF	0	0	0	0	70	1	0	0	70	0	0
R/R 2	52 SF	0	0	0	0	70	1	0	0	70	0	0
R/R 3	137 SF	0	0	0	0	70	3	0	0	210	0	0
R/R 4	56 SF	0	0	0	0	70	1	0	0	70	0	0
R/R 5	56 SF	0	0	0	0	70	1	0	0	70	0	0
R/R 6	56 SF	0	0	0	0	70	1	0	0	70	0	0
RECEPTION	71 SF	5	5	0.06	0	0	1	5	5	0	0.8	13
STAFF ROOM	234 SF	50	5	0.06	0	0	12	60	15	0	0.8	94
STORAGE	186 SF	0	0	0	0	0	0	0	0	0	0	0
TODDLER 1	409 SF	25	10	0.18	0	0	11	110	74	0	0.8	230
TODDLER 2	410 SF	25	10	0.18	0	0	11	110	74	0	0.8	230
TOTALS								130	1,203	560		

HVAC EQUIPMENT SCHEDULE

SUBSTITUTIONS WITH EQUAL OR BETTER PERFORMING PRODUCTS ALLOWED WITH APPROVAL FROM MODERN

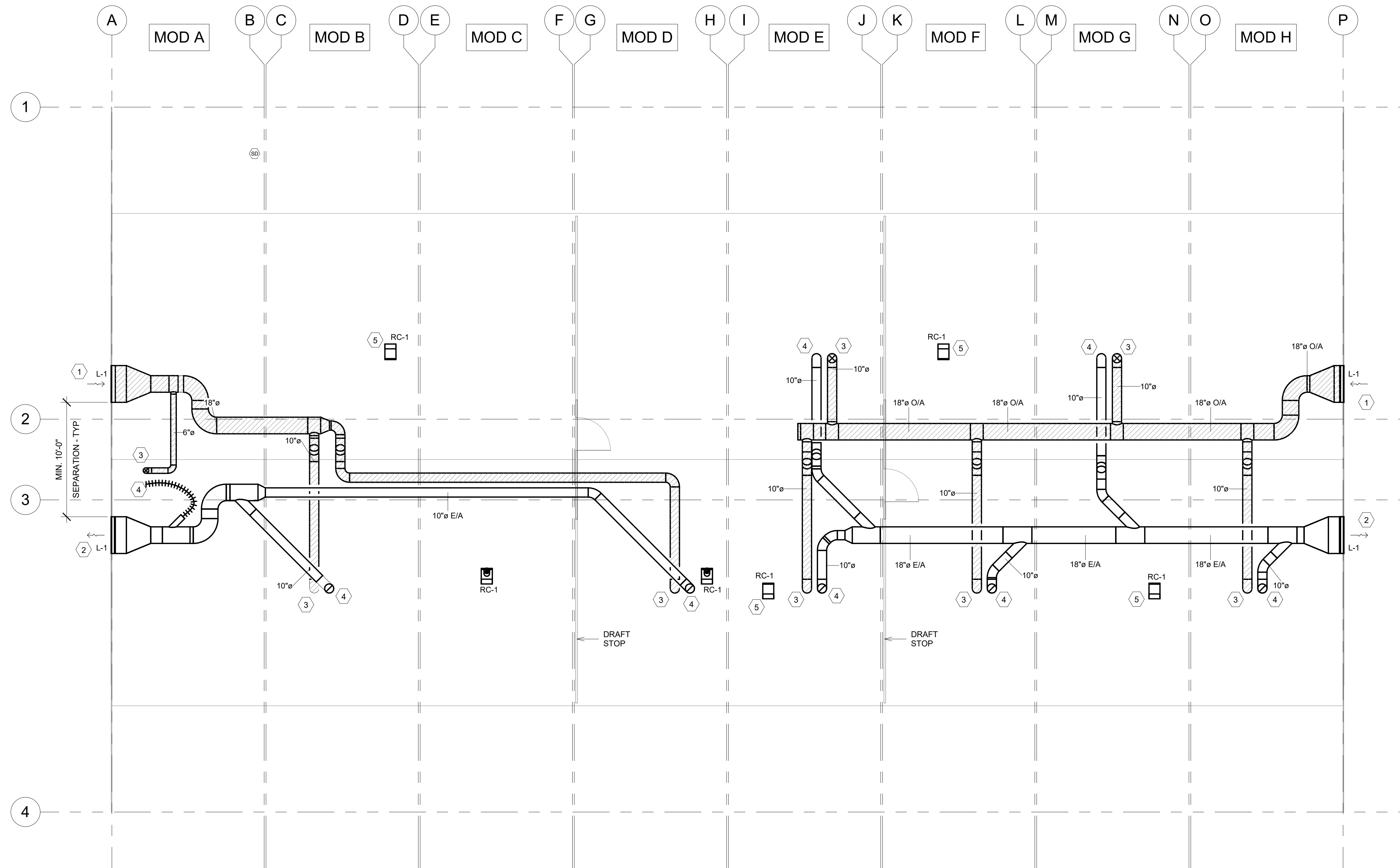
Mark	Count	Description	Manufacturer	Model	Heating Efficiency	Cooling Efficiency	Weight (LBS)	Heating Capacity (Btu/h)	Cooling Capacity (Btu/h)	CFM	MCA	MOP	Volts	Phase	Notes
OU-1	1	1 PORT, 2-TON OUTDOOR HEAT PUMP	DAIKIN	RX24RMJU	HSPF = 10.0	SEER = 18.6	108	24,000	21,800	-	16.9	20	230/60	1	PAIRED W/ CONCEALED CEILING FANCOIL
OU-2	5	4 PORT, 3-TON OUTDOOR HEAT PUMP	DAIKIN	4JMXL36TJU	HSPF = 11.2	SEER = 21.7	214	36,600	34,400	-	32.5	35	230/60	1	
CMUI-1	11	1.25-TON CEILING MOUNTED INDOOR UNIT	DAIKIN	FFO15Q2VJU	-	-	36	15,000	15,000	-	-	-	-	-	
CMUI-2	1	1.0-TON CEILING MOUNTED INDOOR UNIT	DAIKIN	FFO12Q2VJU	-	-	36	12,000	12,000	-	-	-	-	-	
FC-1	1	CONCEALED CEILING FANCOIL	DAIKIN	FDMQ24RVJU	-	-	82	-	-	-	16.9	20	230/60	1	USE WIRING ADAPTER
ERV-1	5	ENERGY RECOVERY VENTILATOR	DAIKIN	VAM300GVJU	-	-	71	-	-	300	1.6	15	230/60	1	
ERV-2	2	ENERGY RECOVERY VENTILATOR	DAIKIN	VAM470GVJU	-	-	121	-	-	470	3.9	15	230/60	1	
ERV-3	1	ENERGY RECOVERY VENTILATOR	PANASONIC	FV-10VE2	-	-	58	-	-	100	20	120/60	1		
EF-1	5	EXHAUST FAN	PANASONIC	FV-0511VQ1	-	-	8.82	-	-	80	27	20	120/60	1	
EF-2	1	EXHAUST FAN	PANASONIC	FV-30VQ3	-	-	8.82	-	-	290	53	20	120/60	1	
RC-1	7	ROOF CAP	FANTECH	RC6P	-	-	12	-	-	-	-	-	-	-	
L-1	4	STATIONARY LOUVER W/ INTEGRAL FLANGE	RUSKIN	L375D	-	-	-	-	-	-	-	-	-	-	40" x 20"
DVR-1	1	DRYER VENT BOX	DRYER BOX	DB-425	-	-	-	-	-	-	-	-	-	-	

REV. DESCRIPTION	DATE	BY	REUSE OF DOCUMENTS THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN ARE THE PROPERTY OF MODERN BUILDING SYSTEMS, LLC AND ARE NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER USE OR PROJECT WITHOUT WRITTEN AUTHORIZATION.	<p>MODERN BUILDING SYSTEMS, LLC TELEPHONE: (503) 366-8888 FAX: (503) 366-6660 P.O. BOX 110, 9405 PORTER ROAD, JAMUNVILLE, OR 97125 CHECK OUT OUR WEB PAGE: www.modernbuilding.com</p>	SHEET HVAC PLAN & SCHEDULES PROJ. 112' x 64' MODULAR CHILDCARE OSU - LITTLE KITS ADDRESS 1500 SW CHANDLER AVENUE BEND, OR 97702	JOB# 2023-LB-01 SHEET # M 1.0 DATE 7/10/24 PRELIM
					DRW BJ	



HVAC ATTIC PLAN KEYNOTES

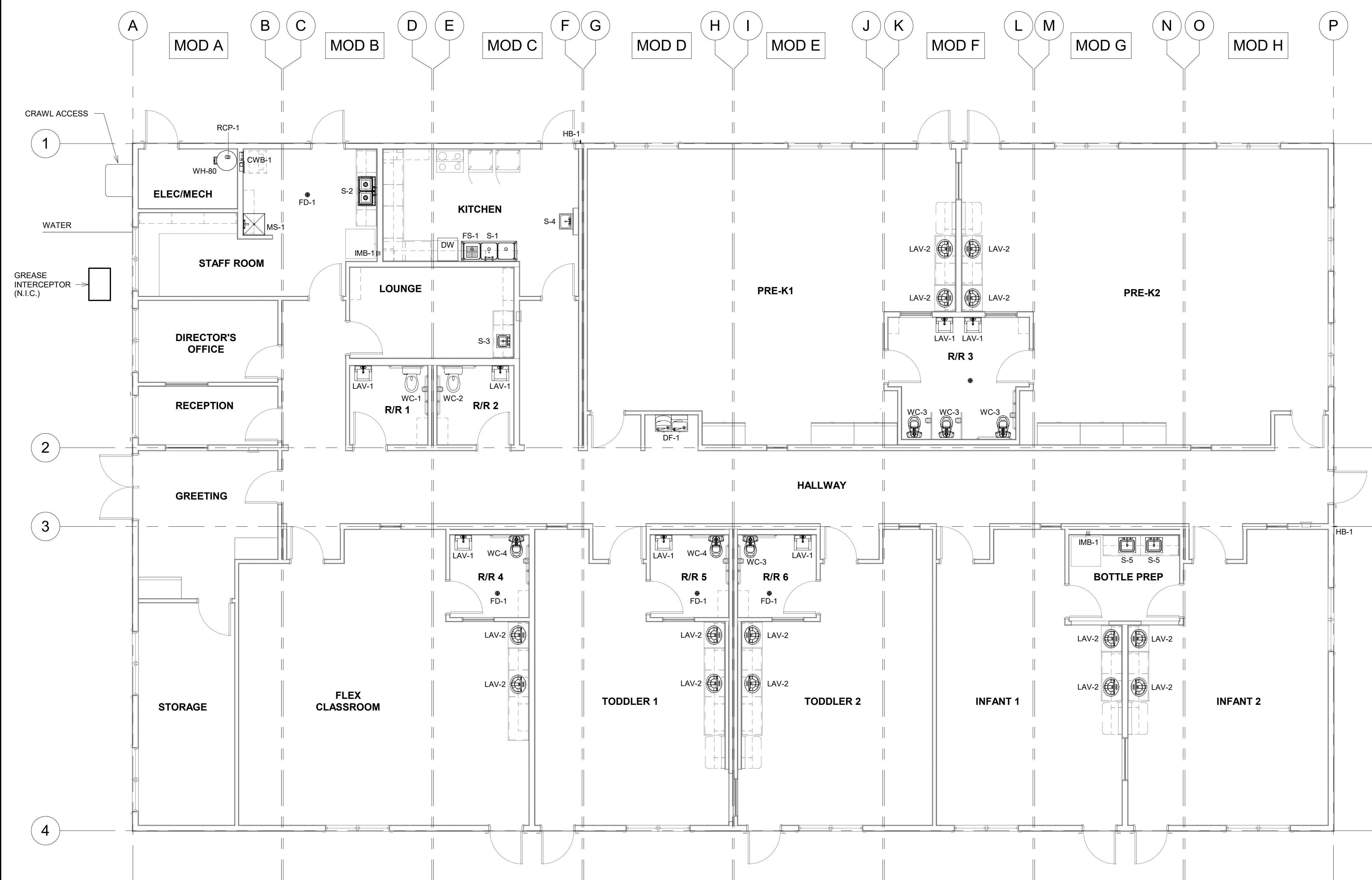
- 1 ERV OUTSIDE AIR (O/A) LOUVER, SEE HVAC EQUIPMENT SCHEDULE FOR SIZE
- 2 ERV EXHAUST AIR (E/A) LOUVER, SEE HVAC EQUIPMENT SCHEDULE FOR SIZE
- 3 ERV OUTSIDE AIR (O/A) DUCT DOWN TO CONNECT TO DUCT BELOW SUB-ROOF, INSULATE W/ FSK INSULATION R-8. COMPLETION OF DUCTING IN ATTIC TO BE DONE ON-SITE
- 4 ERV EXHAUST AIR (E/A) DUCT DOWN TO CONNECT TO DUCT BELOW SUB-ROOF
- 5 6" Ø EXHAUST AIR (E/A) DUCTED DOWN TO CONNECT TO DUCT BELOW SUB-ROOF



1 HVAC PLAN - ATTIC
3/16" = 1'-0"

PRELIMINARY
NOT FOR
SUBMITTAL

REV.	DESCRIPTION	DATE	BY	REUSE OF DOCUMENTS THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN ARE THE PROPERTY OF MODERN BUILDING SYSTEMS, LLC AND ARE NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER USE OR PROJECT WITHOUT WRITTEN AUTHORIZATION.	MODERN BUILDING SYSTEMS, LLC TELEPHONE: (503) 766-8889 FAX: (503) 766-8920 P.O. BOX 110, 9405 PORTER ROAD, JUMBLEVILLE, OR 97025 CHECK OUT OUR WEB PAGE: WWW.MODERNBUILDINGSYSTEMS.COM © MODERN BUILDING SYSTEMS, LLC 2024	SHEET #	ATTIC HVAC PLAN	JOB#	2023-LB-01
						PROJ.	112' x 64' MODULAR CHILDCARE		
							OSU - LITTLE KITS		SHEET #
									M 1.1
						ADDRESS	1500 SW CHANDLER AVENUE BEND, OR 97702	DRW	DATE
								BJ	7/10/24 PRELIM



1 PLUMBING PLAN
3/16" = 1'-0"

PLUMBING NOTES

- SUPPLY PIPING AND FITTINGS:
 - TYPE 'L' CU
 - CHLORINATED POLYVINYL CHLORIDE (CPVC) PLASTIC SCHED 40
 - CROSSLINKED POLYETHYLENE (PEX) PLASTIC - TYPE 'A' W/ WIRSBO FITTINGS
- SUPPLY PIPE SIZES BASED ON:
 - 100 FT. DEVELOPED LENGTH
 - 46 - 60 PSI
- WASTE PIPING:
 - ABS - DWV
- WASTE PIPE SIZES BASED ON:
 - 1/4" PER FOOT SLOPE
- FLOOR DRAINS:
 - FLOOR SHALL BE SLOPED TO FLOOR DRAINS PER OPSC/UPC 418.5
 - PROVIDE TRAP SEAL PROTECTION PER OPSC/UPC 1007
- TRAP PRIMERS TO BE MIN. 12" ABOVE FLOOR RIM PER OPSC 1007.4
- WATER HAMMER ARRESTER(S):
 - INSTALL AT FLUSHMETERS OR QUICK-ACTING VALVES PER OPSC
- SHOWERS:
 - WHEN PRESENT SHALL BE PROVIDED WITH A THERMOSTATIC BALANCE VALVE PER OPSC 408.3
 - A HAND SHOWER WITH A HOSE 59 INCHES MINIMUM IN LENGTH, THAT CAN BE USED BOTH AS A FIXED SHOWER HEAD AND AS A HAND SHOWER SHALL BE PROVIDED
- DISHWASHER: WHEN PRESENT SHALL BE PROVIDED WITH AIR GAP FITTING PER OPSC 807.3
- CLOTHES WASHER: WHEN PRESENT SHALL BE PROVIDED WITH A STANDPIPE PER OPSC 804
- EXPOSED PIPES AND SURFACES:
 - PER ICC A117.1 SECTION 606.6, WATER SUPPLY AND DRAINPIPES UNDER LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES AND SINKS
- WATER CLOSET SEATS:
 - PER OPSC/UPC 411.3, ADA COMPLIANT TOILET SEATS SHALL BE OF THE ELONGATED TYPE AND EITHER OF THE OPEN FRONT TYPE OR HAVE AN AUTOMATIC SEAT COVER DISPENSER. PLASTIC SEATS SHALL COMPLY WITH IAPMO Z124.5
- WATER CLOSETS:
 - PER OPSC/UPC 411.1, WATER CLOSET BOWLS FOR PUBLIC USE SHALL BE OF THE ELONGATED TYPE.
- FLUSH CONTROLS:
 - PER ICC A117.1 SECTION 604.11.6, FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC. HAND OPERATED FLUSH CONTROLS SHALL COMPLY WITH SECTION 309. FLUSH CONTROLS SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET.
- URINALS:
 - PER ICC A117.1 SECTION 605.2, URINALS SHALL BE OF THE STALL TYPE OR SHALL BE OF THE WALL HUNG TYPE WITH THE RIM AT 17 INCHES MAXIMUM ABOVE THE FLOOR. WALL HUNG URINALS SHALL BE 13-1/2 INCHES MINIMUM IN DEPTH MEASURED FROM THE OUTER FACE OF THE URINAL RIM TO THE WALL
- WATER HEATING:
 - SERVICE WATER HEATING EQUIPMENT SHALL BE PROVIDED WITH TEMPERATURE CONTROLS PER ASHRAE 7.4.4.1 AND 7.4.4.3
 - HOT WATER FROM PUBLIC-USE LAVATORIES SHALL ALSO BE CONTROLLED PER OPSC 407.3
 - WATER HEATING EQUIPMENT SHALL BE SUPPLIED WITH HEAT TRAPS PER ASHRAE 7.4.6
 - STRAP WATER HEATER TO WALL W/ 26 GA. x 1" SEISMIC STRAP W/ (1) #6 SMT TO TANK AND (1) #3 x 2" BUGLE HEAD SCREW TO WALL EACH END
 - HOT WATER PIPES TO BE INSULATED PER ASHRAE 7.4.3
 - NO PEX PIPING WITHIN 18" OF WATER HEATER PER OPSC 604.13
 - WATER HEATING EQUIPMENT SHALL HAVE NO LESS THAN THE ENERGY FACTOR EFFICIENCY PER ASHRAE TABLE 7.8
 - WATER HEATING EQUIPMENT SHALL BE SUPPLIED WITH DRAINAGE PER OPSC 507.4 507.5

PLUMBING FIXTURE SCHEDULE

Mark	Count	Description	Model	Style	GPM/GPF	WATTS
CWB-1	1	CLOTHES WASHER BOX	SIoux CHIEF, 696-G2303XF			
DF-1	1	DUAL HEIGHT DRINKING FOUNTAIN AND BOTTLE FILLING STATION	ELKAY, EZSTL8WSLK			
FD-1	5	FLOOR DRAIN	SIoux CHIEF, 822-2ANR			
FS-1	1	FLOOR SINK, 12x12x6	WATTS, FS-732-22			
HB-1	2	HOSE BIBB (FROST PROOF)	WOODFORD, 17CP-12-MH			
IMB-1	2	ICE MAKER BOX	SIoux CHIEF, 696-G2303XF			
LAV-1	7	WALL HUNG LAVATORY	GERBER, PLYMOUTH 12-314; FAUCET: OLYMPIA, 3LG161G	VITR. CHINA	0.5	
LAV-2	14	COUNTER LAVATORY	GERBER, MAXWELL G0012834CH; FAUCET: PIONEER, 3LG161G	VITR. CHINA	0.5	
MS-1	1	MOP SINK, 24x24	MUSTEE, 63M; FAUCET: CHICAGO, 897-CRCF	FIBERGLASS	2.5	
RCP-1	1	HOT WATER RECIRCULATION PUMP	GRUNDFOS, 3/4 INCH, UP15-29 SF			
S-1	1	TRIPLE BASIN SINK	ADVANCE TABCO, 9-3-54-24RL; FAUCET: T&B BRASS & BRONZE WORKS, B-0133B	SS	2	
S-2	1	DOUBLE BOWL KITCHEN SINK, 33x22	DAYTON, D233-193; FAUCET: DELTA, 100	SS	2	
S-3	1	BAR SINK, 15 X 15	DAYTON, OM1515-5-2; FAUCET: OLYMPIA, B-8160	SS	2.5	
S-4	1	SINGLE BOWL KITCHEN HAND WASH	ADVANCED TABCO, 7-PS-60 W/ SPLASH MOUNT GOOSENECK FAUCET	SS	2	
S-5	2	HOSPITALITY SINK, 17 X 19	DAYTON, D11719; FAUCET: DELTA, 100	SS	2	
WC-1	1	ADA WATER CLOSET	GERBER, MAXWELL MX21-928 (17" HIGH); TANK (LH): GERBER, MAXWELL 28-990; SEAT: CHURCH, 295CT	TANK	1.28	
WC-2	1	ADA WATER CLOSET	GERBER, MAXWELL MX21-928 (17" HIGH); TANK (RH): GERBER, MAXWELL 28-990-97; SEAT: CHURCH, 295CT	TANK	1.28	
WC-3	4	ADA CHILDREN'S WATER CLOSET	GERBER, HE-20-601-97 (12" HIGH-RIGHT)	TANK	1.28	
WC-4	2	ADA CHILDREN'S WATER CLOSET	GERBER, HE-20-601 (12" HIGH-LEFT)	TANK	1.28	
WH-80	1	WATER HEATER - 80 GAL. TANK	BRAFORD WHITE, SLE280T6-1SEVV; TEMPERING VALVE: CASH ACME, 24644	ELEC.		4500

REV.	DESCRIPTION	DATE	BY

REUSE OF DOCUMENTS THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN ARE THE PROPERTY OF MODERN BUILDING SYSTEMS, LLC AND ARE NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER USE OR PROJECT WITHOUT WRITTEN AUTHORIZATION.



SHEET PLUMBING PLAN & NOTES

PROJ. 112' x 64' MODULAR CHILDCARE

OSU - LITTLE KITS

ADDRESS 1500 SW CHANDLER AVENUE BEND, OR 97702

JOB# 2023-LB-01

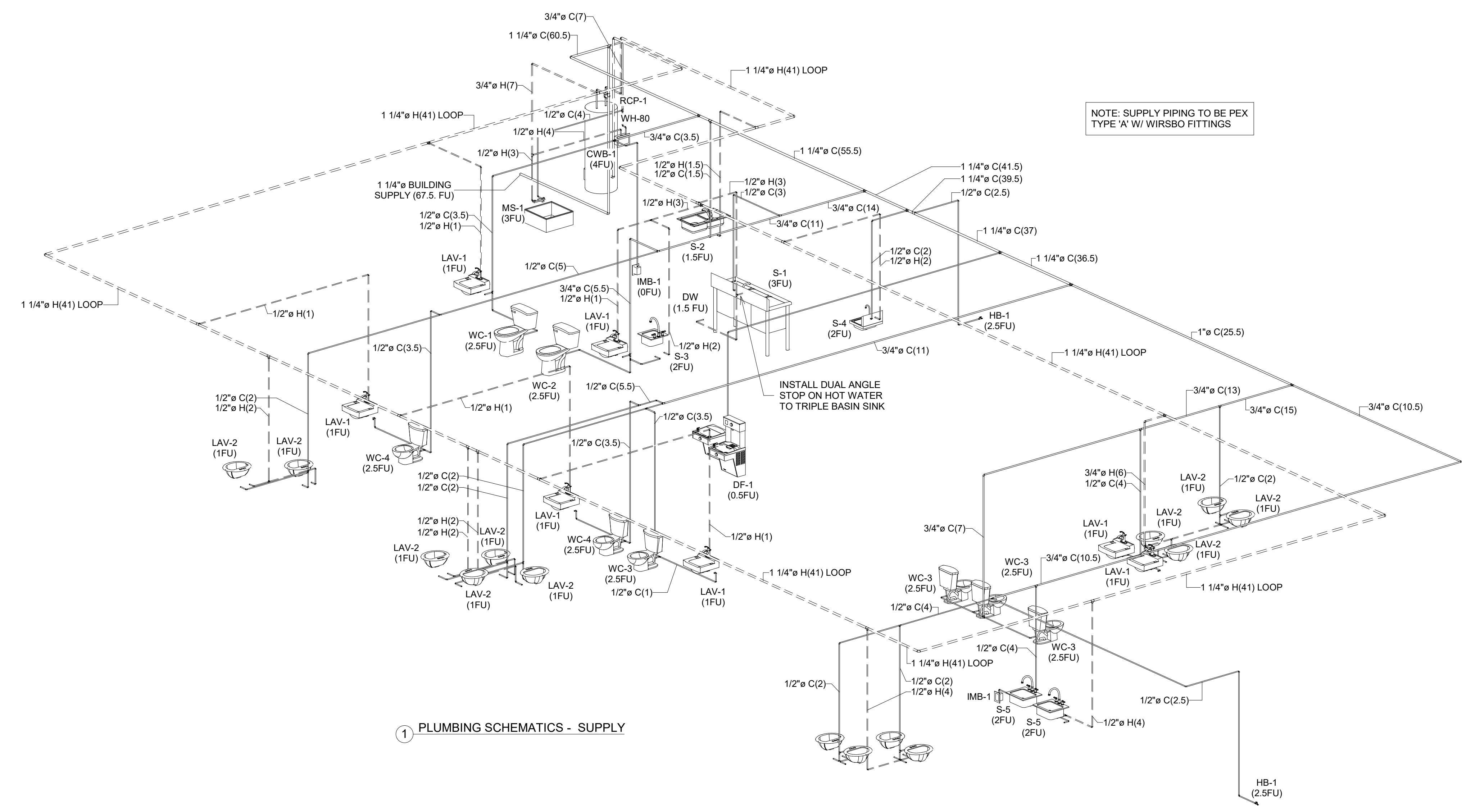
SHEET # **P 1.0**

DATE 7/10/24 PRELIM

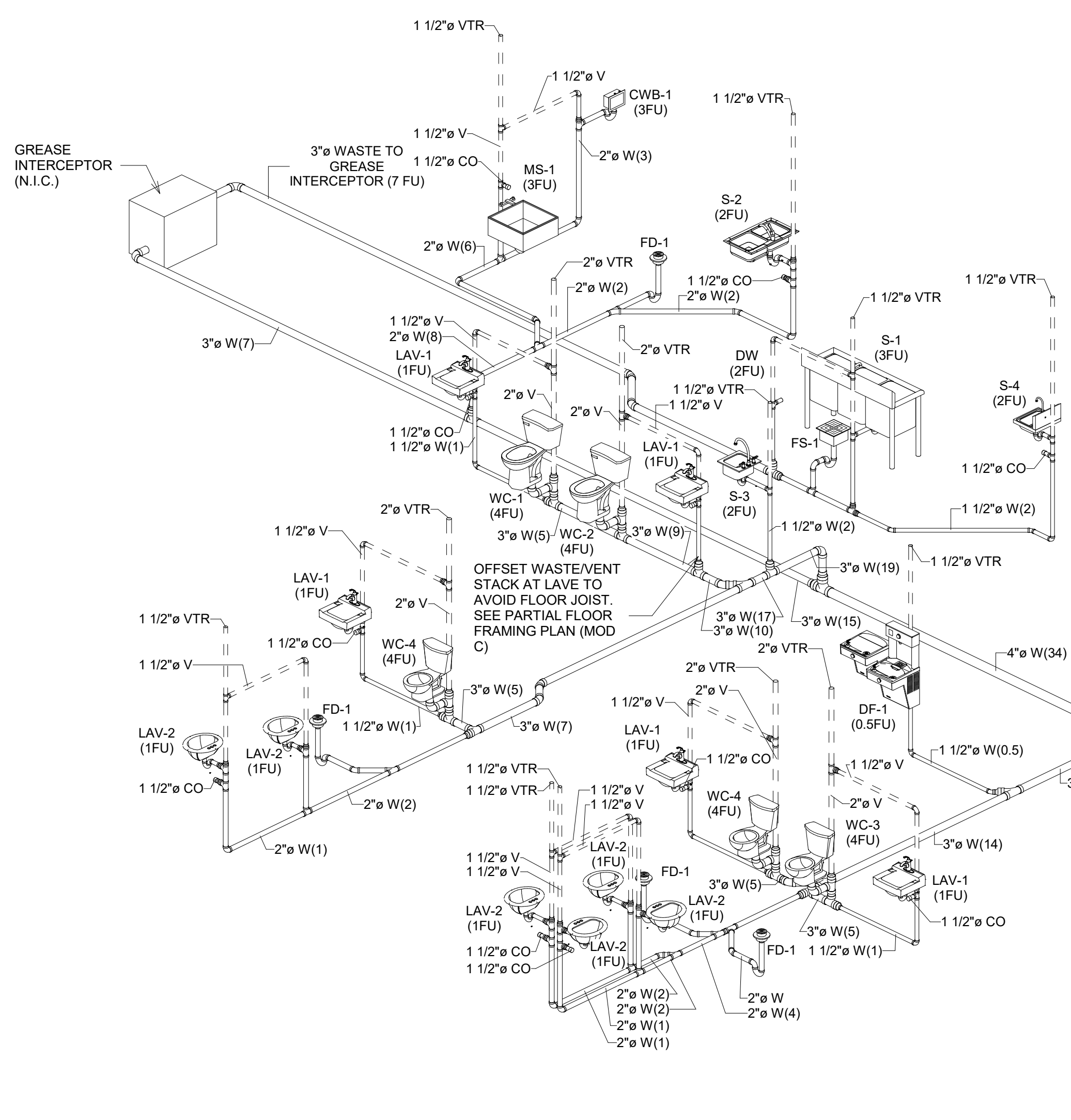
DRW BJ



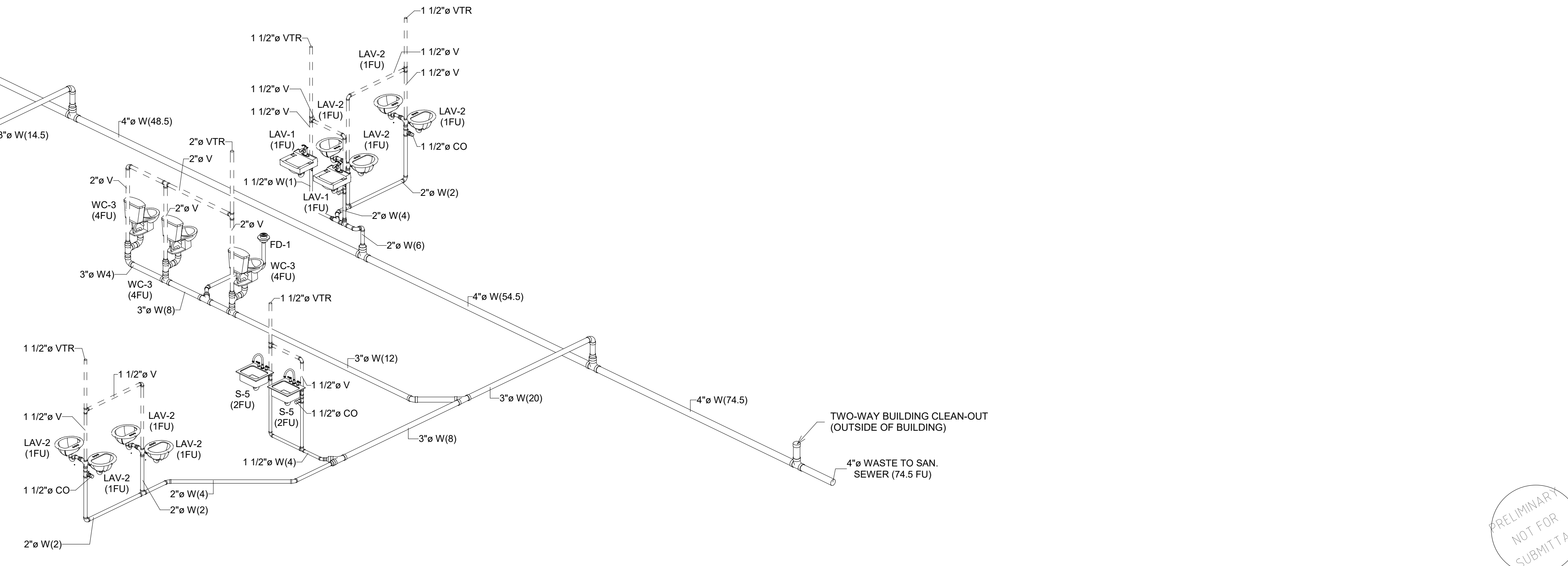
NOTE: SUPPLY PIPING TO BE PEX TYPE 'A' W/ WIRSBO FITTINGS



1 PLUMBING SCHEMATICS - SUPPLY



2 PLUMBING SCHEMATICS - DWV



REV.	DESCRIPTION	DATE	BY

REUSE OF DOCUMENTS THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN ARE THE PROPERTY OF MODERN BUILDING SYSTEMS, LLC AND ARE NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER USE OR PROJECT WITHOUT WRITTEN AUTHORIZATION.

MODERN BUILDING SYSTEMS
TELEPHONE: (503) 766-8889 FAX: (503) 766-8950
P.O. BOX 110, 9405 PORTER ROAD, ALBANY, OR 97007
CHECK OUT OUR WEB PAGE: WWW.MODERNBUILDINGSYSTEMS.COM
© MODERN BUILDING SYSTEMS, LLC 2024

SHEET PLUMBINGS SCHEMATICS
PROJ. 112' x 64' MODULAR CHILDCARE
OSU - LITTLE KITS
ADDRESS 1500 SW CHANDLER AVENUE BEND, OR 97702

JOB# 2023-LB-01
SHEET # **P 1.1**
DATE 7/10/24 PRELIM

PRELIMINARY
NOT FOR
SUBMITTAL