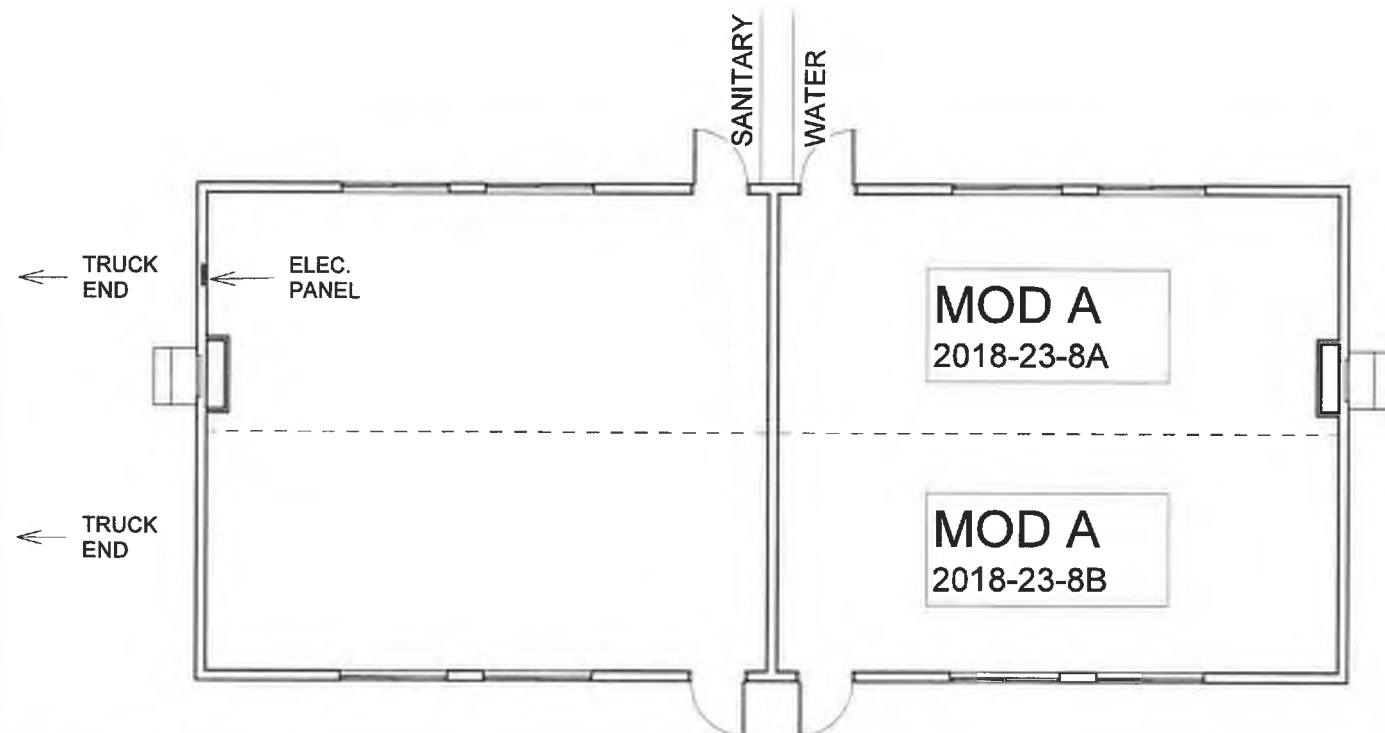
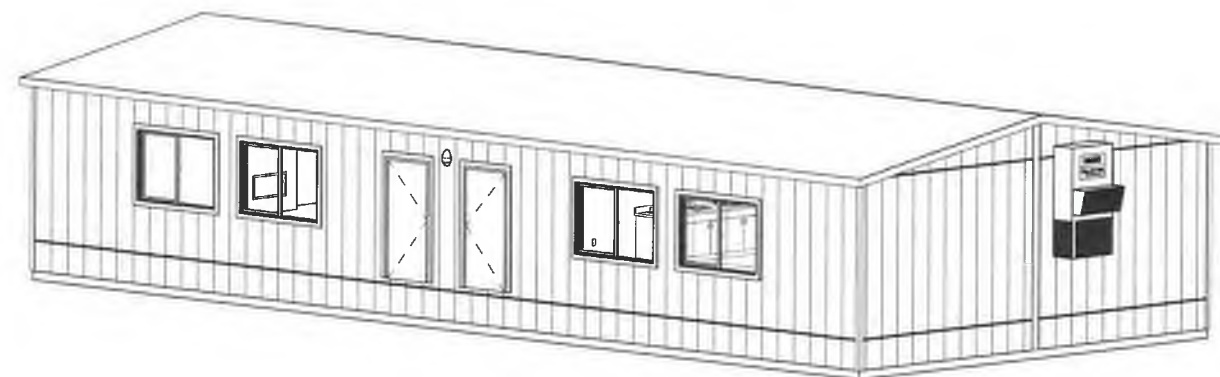


SUMNER SD II

28' x 64' MODULAR CLASSROOM



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M 1.0	HVAC PLAN		
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REV.

DESCRIPTION

DATE

BY

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BUILDING SYSTEMS

MODERN BUILDING SYSTEMS, INC.

TELEPHONE: (503) 749-4949 FAX: (503) 749-4950

P.O. BOX 110, 9493 PORTER ROAD, AUMSVILLE, OR 97325

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SHEET

COVER SHEET

PROJ.

28' x 64' MODULAR CLASSROOM
SUMNER SD II (BLDG #8)

ADDRESS

1707 MAIN ST. SUMNER, WA 98390

DRW

SR

JOB#

2018-RN-23-8

DMP: 2016 OR/WA ADD #7

SHEET #

A 0.0

DATE

4/3/18

EXPIRES: 12/31/18

GENERAL NOTES

1. 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.
2. ALL CONTROLS AND HARDWARE SHALL BE ACCESSIBLE TO PERSONS WITH DISABILITIES.
3. LOCAL JURISDICTION TO DETERMINE COMPLIANCE WITH IBC CHAPTER 29 (WITH REGARD TO ADJACENT FACILITIES) IN ACCORDANCE WITH THEIR CURRENTLY ADOPTED EDITION OF THE IBC.
4. WHERE REQUIRED, PORTABLE FIRE EXTINGUISHERS SHALL BE INSTALLED IN ACCORDANCE WITH 2015 IFC SECTION 906
5. PER WAC 296-150F-0605 REQUIRES TOILET FACILITIES LOCATED IN AN ADJACENT FACILITY TO BE NOTED ON THE PLAN SUBMITTAL AND THAT THE REQUIREMENTS OF IBC CHAPTER 29, SECTION 2902, TABLE 2902.1 OF THE STATE BUILDING CODE MUST BE VERIFIED BY THE LOCAL JURISDICTION BUILDING OFFICIAL AND SHOWN ON THE NLEA.
6. IF APPLICABLE, SPECIAL INSPECTION REQUIRED IN ACCORDANCE WITH IBC CHAPTER 17, SECTION 1705. FOR THIS PROJECT ALL APPLICABLE CRITERIA IS RELATED TO WELDING. THE P.E. CAN PERFORM THE INSPECTION.
7. IF APPLICABLE, PERIODIC SPECIAL INSPECTION OF WOOD SHEAR WALLS WITH FASTENER SPACING OF 4" OR LESS WILL BE PERFORMED BY THE ENGINEER OF RECORD OR ALTERNATE. A REPORT SHALL BE SUBMITTED TO THE DEPARTMENT AND PLACED INTO THE APPROVED SET.
8. IF APPLICABLE, FIRE ALARM SYSTEM TO BE FIELD INSTALLED (BY OTHERS) PER 2015 IBC SECTION 907.1.2. SEE ELECTRICAL PLAN FOR DEVICE LOCATIONS. FIRE ALARM INSPECTION AND APPROVAL PER LOCAL AUTHORITY HAVING JURISDICTION.
9. IF APPLICABLE, FIRE SAFETY AND EVACUATION PLANS SHALL BE PROVIDED BY OWNER PRIOR TO CERTIFICATE OF OCCUPANCY PER 2015 IFC SECTION 403
10. THIS SET OF PLANS PREPARED AND SUBMITTED FOR APPROVAL UNDER THE FOLLOWING CODES:

	OREGON	WASHINGTON
BUILDING	2015 IBC	2015 IBC/WAC 51-50
MECHANICAL	2015 IMC	2015 IMC/WAC 51-52
FIRE	2015 IFC	2015 IFC/WAC 51-54A
PLUMBING	2017 OPSC	2015 UPC/WAC 51-56
ENERGY	2014 OEESC	2015 WSEC/WAC 51-11C
ELECTRICAL	2017 OESC	2017 NEC

DESIGN CRITERIA

GENERAL:

CONSTRUCTION TYPE	VB (NON-SPRINKLERED)
OCCUPANCY GROUP	E
OCCUPANCY LOAD	84
DISTANCE TO PROPERTY LINE OR ASSUMED PROPERTY LINE	FRONT: 10' MIN. REAR: 10' MIN. LEFT: 10' MIN. RIGHT: 10' MIN.

ELECTRICAL:

ELECTRICAL SERVICE LOAD	225A / 120/240V / 1 PH. 50.0 kVA
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MECHANICAL:

VENTILATION OCCUPANCY LOAD	58
CLIMATE ZONE	4C/5B
HEATING	SPV/HP
AIR-CONDITIONING	YES

PLUMBING:

PLUMBING OCCUPANCY LOAD	OR - 78 (39 MALE/39 FEMALE) / WA = 1771sf / 100 = 18 (9 MALE/9 FEMALE)
QUANTITY OF PLUMBING FIXTURES	OR = 7 / WA = 6

STRUCTURAL:

ROOF SNOW LOAD	30 PSF
FLOOR LIVE LOAD	50 PSF
WIND LOAD	Lambda = 1.0 Vult = 140 MPH (Vasd = 108 MPH) 3 SECOND GUST - EXP. B
SEISMIC	BEARING WALL SYSTEM: S _s = 1.500, F _a = 1.000 S _{DS} = 1.000, RISK CATEGORY II I _e = 1.0, SEISMIC DESIGN CATEGORY D, SITE CLASS D



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ENERGY CODE NOTES

1. ALL BUILDING THERMAL ENVELOPE INSULATION SHALL BE MARKED IN ACCORDANCE WITH OEESC 303.1.1 AND WSEC C303.1.1 AND INSTALLED PER OEESC 303.1.2 AND WSEC C303.1.2
2. BLOWN-IN INSULATION SHALL BE INSTALLED AND CERTIFIED PER OEESC 303.1.1.1 AND WSEC C303.1.1.1
3. ALL AIR BARRIER MATERIALS SHALL BE ASTM E2178 RATED OR AS LISTED IN OEESC 502.4.1.2.1 AND WSEC C402.5.1.1
4. AIR BARRIER COMPLIANCE OPTIONS:
CONTINUOUS AIR BARRIER FOR THE OPAQUE BUILDING ENVELOPE SHALL COMPLY WITH OEESC 502.4.1.2.1

AIR BARRIER TESTING AND REPORTING TO BE CONDUCTED PER WSEC C402.5.1.2 FOR THE STATE OF WASHINGTON
5. PENETRATIONS OF THE AIR BARRIER SHALL BE CAULKED, GASKETED OR SEALED PER OEESC 502.4.2 AND WSEC C402.5.1.1
6. ALL FENESTRATION ASSEMBLIES SHALL BE LABELED BY THE MANUFACTURER PER OEESC 303.1.3 AND 502.4.1 AND WSEC C303.1.3 AND C402.4.3
7. AIR ECONOMIZER SHALL BE CAPABLE OF PROVIDING 100% OUTSIDE AIR PER OEESC 503.3.1 AND WSEC C403.3.3.1
8. ECONOMIZER HIGH-LIMIT SHUTOFF CONTROL IS ELECTRONIC ENTHALPY PER MANUFACTURER'S SPECIFICATIONS AND WSEC C403.3.3.3
9. MECHANICAL VENTILATION SYSTEM SHALL HAVE THE CAPABILITY TO REDUCE THE OUTSIDE AIR SUPPLY TO THE MINIMUM REQUIRED PER OEESC 503.2.5 AND WSEC C403.5
10. OUTSIDE AIR AND EXHAUST AIR DAMPERS SHALL BE RATED PER OEESC 502.4.4 AND 503.2.4.5 AND WSEC C402.5.5 AND C403.2.4
11. THIS PROJECT PROVIDES TWO ADDITIONAL EFFICIENCY PACKAGE OPTIONS PER 2015 WSEC, SECTION C406.

A. ENERGY ADD OPTION #1 IS WSEC C406.1 (ITEM #2); C406.3 REDUCED LIGHTING POWER DENSITY. INSTALLED LIGHTING WATTAGE IS LESS THAN 75% OF ALLOWED INTERIOR LIGHTING WATTAGE WSEC C405.4.2(1) OR C404.4.2(2)

B. ENERGY ADD OPTION #2 IS WSCE C406.1 (ITEM #3); C406.4 ENHANCED LIGHTING CONTROLS. NO LESS THAN 90% OF ALL INTERIOR LIGHTING IS CONTROLLED WITH CONTINUOUS DIMMING ALONG WITH EXCEPTION #3 OF WSEC 406.4
12. THIS PROJECT MEETS DEDICATED OUTDOOR AIR SYSTEM REQUIREMENTS PER WSEC C403.6, EXCEPTION #1, NATURAL VENTILATION AREAS AT WINDOWS IS GREATER THAN 4% OF FLOOR AREA (OPEN WINDOW AREA = 82.4 SQ. FT. ≥ 70.8 SQ. FT. = 4% (1771 SQ. FT. FLOOR AREA)

SYSTEM COMMISSIONING NOTES

1. PRIOR TO CONSTRUCTION, A COMMISSIONING PLAN SHALL BE DEVELOPED PER WSEC C408.1.2. THE COMMISSIONING PLAN SHALL BE USED DURING CONSTRUCTION TO INSURE PROPER INSTALLATION, TESTING AND BALANCING OF BUILDING SYSTEMS AS FOLLOWS:

MECHANICAL SYSTEM PER WSEC C408.2NOT REQUIRED (EXCEPTION)

LIGHTING AND CONTROLS PER WSEC C408.3NOT REQUIRED (EXCEPTION #1 AND #2)

SERVICE WATER HEATING PER WSEC C408.4NOT REQUIRED (EXCEPTION #1)

ENERGY METERING PER WSEC C408.6NOT REQUIRED (PER C409.1)
2. UPON COMPLETION OF CONSTRUCTION, A PRELIMINARY COMMISSIONING REPORT SHALL BE COMPLETED AND CERTIFIED AND PROVIDED TO THE BUILDING OWNER PER WSEC C408.1.4.1.
3. OPERATING AND MAINTENANCE MANUALS FOR ALL COMMISSIONED BUILDING SYSTEMS SHALL BE PROVIDED TO THE BUILDING OWNER PER OEESC 503.2.9.2 AND WSEC C103.6.2.
4. DOCUMENTS, MANUALS AND REPORTS REQUIRED BY WSEC C103.6.3 SHALL BE PROVIDED TO THE BUILDING OWNER WITHIN 180 DAYS OF RECEIVING THE CERTIFICATE OF OCCUPANCY.
5. A FINAL COMMISSIONING REPORT SHALL BE PROVIDED TO THE BUILDING OWNER PER WSEC C408.1.3.
6. THE BUILDING OWNER SHALL BE TRAINED IN PROPER OPERATION AND MAINTENANCE OF ALL COMMISSIONED BUILDING SYSTEMS PER WSEC C103.6.4





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					PROJ. 28' x 64' MODULAR CLASSROOM SUMNER SD II (BLDG #8)	SHEET # A 0.2
					ADDRESS 1707 MAIN ST. SUMNER, WA 98390	DATE 4/3/18
					DRW SR	

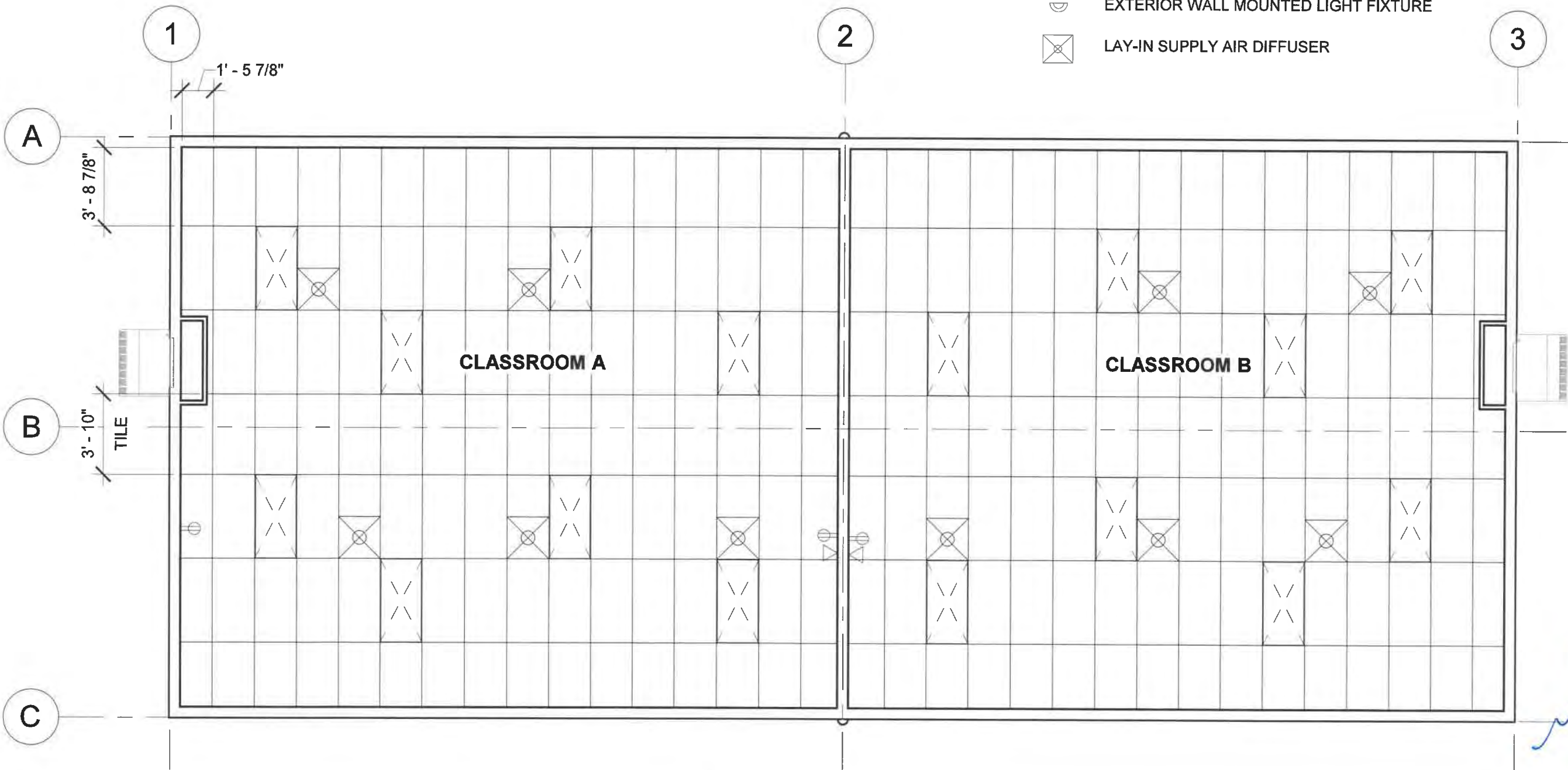


REFLECTED CEILING PLAN NOTES

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


REFLECTED CEILING SYMBOL LEGEND

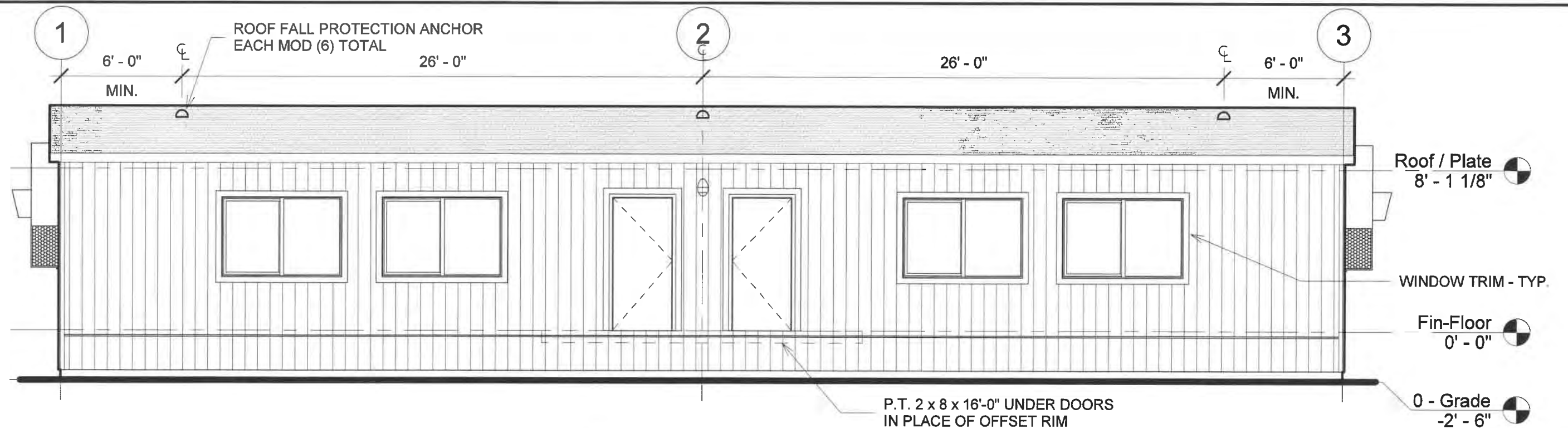
-  LAY-IN LIGHT FIXTURE
-  SURFACE MOUNTED LIGHT FIXTURE
-  EXTERIOR WALL MOUNTED LIGHT FIXTURE
-  LAY-IN SUPPLY AIR DIFFUSER



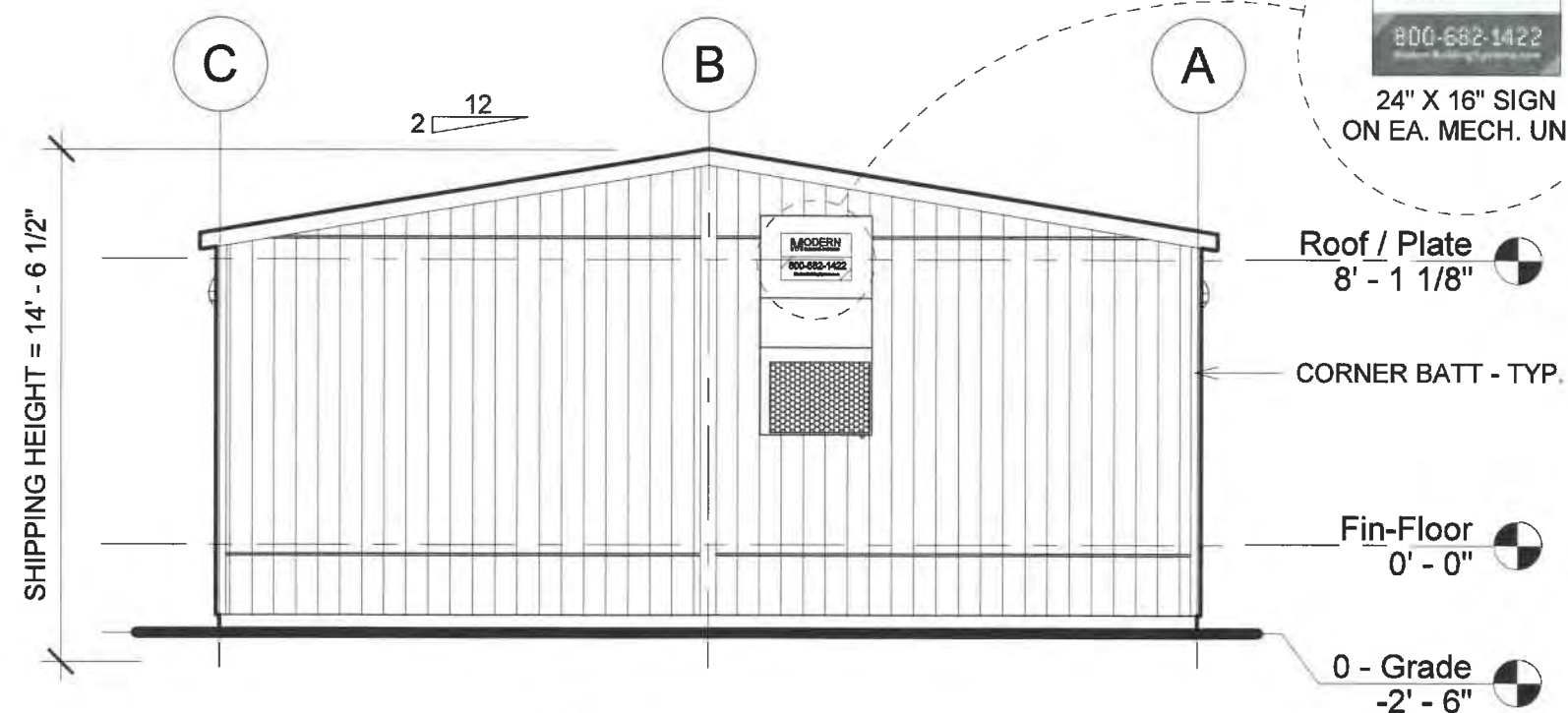
1 REFLECTED CEILING PLAN
3/16" = 1'-0"



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					PROJ. 28' x 64' MODULAR CLASSROOM SUMNER SD II (BLDG #8)	SHEET # A 1.1	
					ADDRESS 1707 MAIN ST. SUMNER, WA 98390	DRW SR DATE 4/3/18	



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

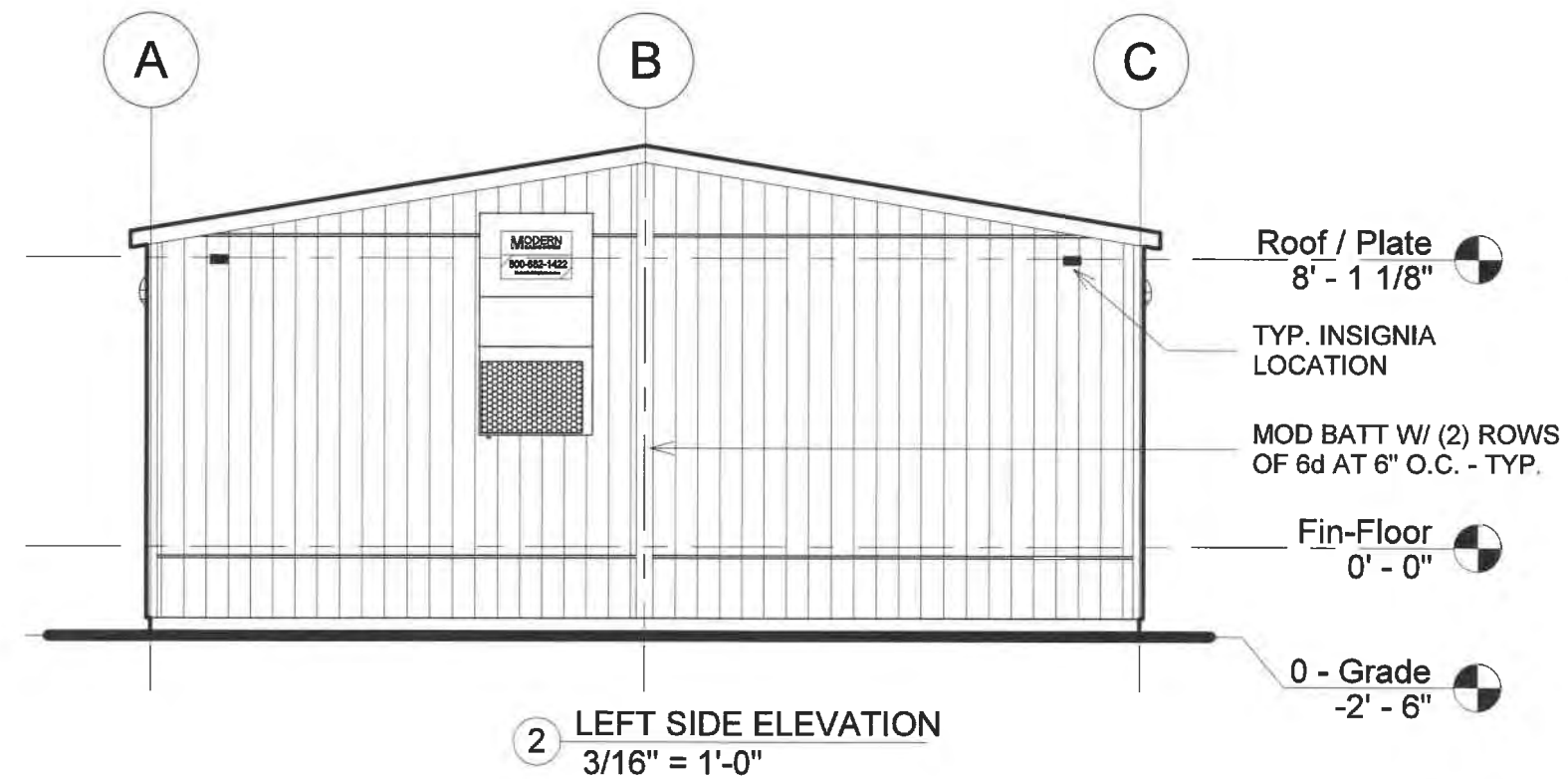
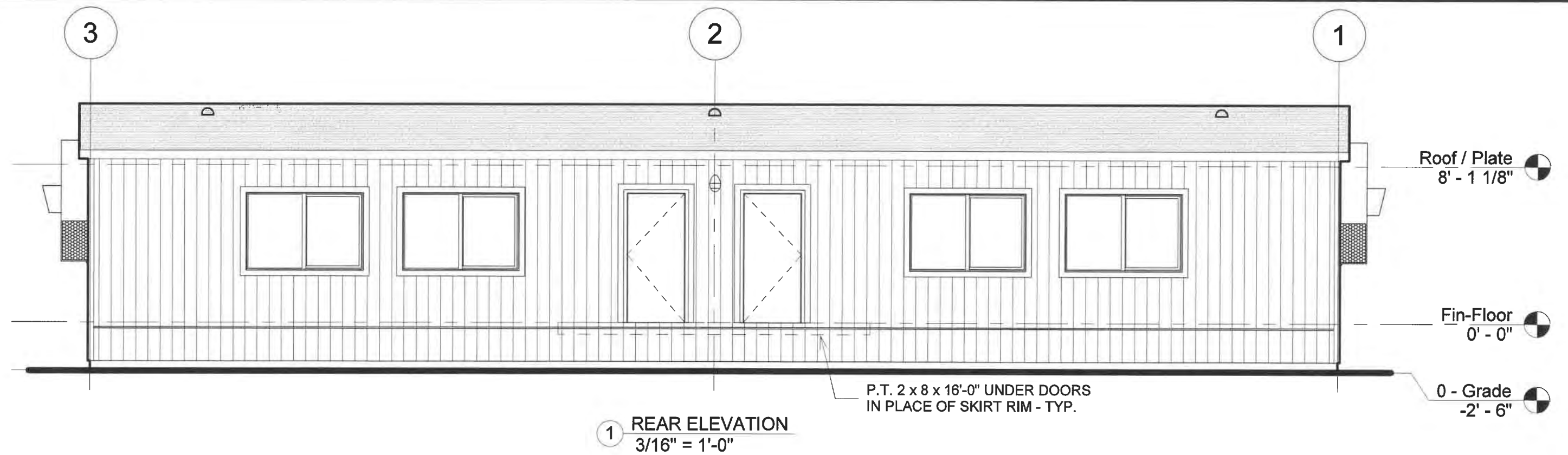


2 RIGHT SIDE ELEVATION
3/16" = 1'-0"



EXPIRES 12/31/18

REV.	DESCRIPTION	DATE	BY				SHEET	EXTERIOR ELEVATIONS		JOB#	2018-RN-23-8
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							ADDRESS	1707 MAIN ST. SUMNER, WA 98390		DATE	4/3/18
							DRW	SR			



REV.	DESCRIPTION	DATE	BY		SHEET	EXTERIOR ELEVATIONS	JOB# 2018-RN-23-8
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				MODERN BUILDING SYSTEMS INC.	ADDRESS	1707 MAIN ST. SUMNER, WA 98390	SHEET # A 2.1
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DOOR SCHEDULE

Mark	Width	Height	Thickness	Swing	Core	Lite Size	Lite Glass	Face	Door Finish	Frame Type	Frame Finish	Throat	R.O. Type	Hdw Group	Fire Rating	Door Header	U-Value	Remarks
1	3' - 0"	6' - 8"	1 3/4"	LHOS	HM	-	-	MTL	PT	HM	PT	6 3/4"	G	1		(2) 2 x 8 DF #2	.22	
2	3' - 0"	6' - 8"	1 3/4"	RHOS	HM	-	-	MTL	PT	HM	PT	6 3/4"	G	1		(2) 2 x 8 DF #2	.22	
3	3' - 0"	6' - 8"	1 3/4"	LHOS	HM	-	-	MTL	PT	HM	PT	6 3/4"	G	1		(2) 2 x 8 DF #2	.22	
4	3' - 0"	6' - 8"	1 3/4"	RHOS	HM	-	-	MTL	PT	HM	PT	6 3/4"	G	1		(2) 2 x 8 DF #2	.22	

- NOTES:
- 1. CAULK AND SEAL ALL EXTERIOR DOORS
 - 2. ALL EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT (U.N.O.)
 - 3. ALL DOOR LEADS 4-1/2" (U.N.O.)
 - 4. ALL DOORS TO HAVE A OPENING FORCE NOT EXCEED 5 POUNDS

WINDOW SCHEDULE

Mark	Count	Width	Height	Type	Frame	Glass	SHGC	U-VAL	Air Leakage	Ext. Trim	Int. Trim	Window Header	Comments
A	8	6' - 0"	4' - 0"	XO	VINYL	DUAL / LOW E / TMP	0.30	0.34	.18 CFM/SF	1x4	VWS	(2) 2 x 8 DF #2	

- NOTES:
- 1. CAULK AND SEAL ALL EXTERIOR WINDOWS

HARDWARE SCHEDULE

GROUP #1	GROUP #2	GROUP #3	GROUP #4	GROUP #5	GROUP #6	GROUP #7
1-1/2 PAIR BUTTS LEVER/LEVER W/ LOCK CLOSER WEATHER-STRIP DOOR BOTTOM 1/2" MAX. ACCESSIBLE THRESHOLD						

ABBREVIATIONS

AL ALUMINUM	CLR CLEAR	HC HOLLOW CORE	LHR LEFT HAND REV.	RH RIGHT HAND	TMP TEMPERED
AFF ABOVE FIN. FLR.	CS CAULK AND SEAL	HF HEM FIR	MTL METAL	RHR RIGHT HAND REV.	TTP TAPE, TEXTURE, PT
BA BRONZE ANODIZED	FGL FIBERGLASS	HM HOLLOW METAL	NRW NARROW (LITE)	SC SOLID CORE	VWS VINYL WRAP SURR.
BV BOTTOM VENT	FP FACTORY PRIMED	INS INSULATED	P&D PUNCH & DIMPLE	SF STOREFRONT	WD WOOD
CDR CEDAR	FPT FIELD PAINTED	KD KNOCK DOWN	PF PREFINISHED	STN STAIN	WLD WELDED
CH COASTAL HEMLOCK	HB HARDBOARD	LH LEFT HAND	PT PAINT	TIM TIMELY FRAME	



EXPIRES 12/31/19

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DOOR ROUGH OPENING SCHEDULE

EXTERIOR DOORS		
A	METAL DOORS W/ HOLLOW METAL FRAME (WELDED)	
	R.O. WIDTH	CALL SIZE + 4-1/2"
	R.O. HEIGHT	CALL SIZE + 2-1/8"
B	DBL. METAL DOORS W/ HOLLOW METAL FRAME (WELDED)	
	R.O. WIDTH	CALL SIZE + 4-1/2"
	R.O. HEIGHT	CALL SIZE + 2-1/8"
C	STOREFRONT DOOR	
	R.O. WIDTH	CALL SIZE + 4-1/2"
	R.O. HEIGHT	CALL SIZE + 2-1/8"
D	TIMELY SPLIT MEDIA DOOR	
	R.O. WIDTH	CALL SIZE + 1-1/4"
	R.O. HEIGHT	CALL SIZE + 1"
E1	METAL DOOR W/ WOOD FRAME (PEASE AND STANLEY) (IN swing)	
	R.O. WIDTH	CALL SIZE + 2"
	R.O. HEIGHT	CALL SIZE + 2"
E2	METAL DOOR W/ WOOD FRAME (PEASE AND STANLEY) (OUT swing)	
	R.O. WIDTH	CALL SIZE + 2"
	R.O. HEIGHT	CALL SIZE + 1-9/16"
F	STOCKER DOOR	
	R.O. WIDTH	CALL SIZE + 1-1/4"
	R.O. HEIGHT	CALL SIZE + 1"
G	METAL DOOR W/ HOLLOW METAL FRAME (KNOCK-DOWN)	
	R.O. WIDTH	CALL SIZE + 2"
	R.O. HEIGHT	CALL SIZE + 1"
INTERIOR DOORS		
1	HOLLOW / SOLID WOOD DOOR W/ WOOD FRAME	
	R.O. WIDTH	CALL SIZE + 2"
	R.O. HEIGHT	CALL SIZE + 2-1/8"
2	TIMELY FRAME	
	R.O. WIDTH	CALL SIZE + 1-1/4"
	R.O. HEIGHT	CALL SIZE + 1"
3	POCKET DOOR	
	R.O. WIDTH	2x CALL SIZE + 2"
	R.O. HEIGHT	CALL SIZE + 4"
4	BI-PASS DOOR	
	R.O. WIDTH	CALL SIZE
	R.O. HEIGHT	CALL SIZE + 2-1/8"
5	BI-FOLD DOOR	
	R.O. WIDTH	CALL SIZE
	R.O. HEIGHT	CALL SIZE + 5/8"

NOTE: ALL TRIMMER HEIGHTS = R.O. CALL SIZE MINUS 1-1/2"

AREA SCHEDULE (Gross Building)

AREA TYPE	NO. MODS	AREA
Gross Building Area	2	1771 SF

ROOF SCHEDULE

DESCRIPTION	AREA
ROOFING	1889 SF

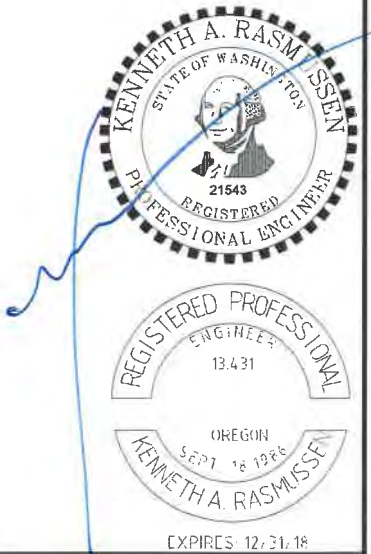
WALL SCHEDULE

DESCRIPTION	LENGTH
EXTERIOR 2x6	181' - 6"
EXTERIOR 2x SKIRTWALL	183' - 0"
INTERIOR 2x3	13' - 7"
INTERIOR 2x6	27' - 2"

OCCUPANT LOAD SCHEDULE

FUNCTION OF SPACE	Area	LOAD FACTOR	OCCUPANT LOAD
CLASSROOM A	830 SF	20	42
CLASSROOM B	829 SF	20	42
Total			84

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					PROJ. 28' x 64' MODULAR CLASSROOM SUMNER SD II (BLDG #8)		SHEET # A 3.3	
					ADDRESS 1707 MAIN ST. SUMNER, WA 98390		DRW SR	DATE 4/3/18

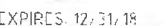


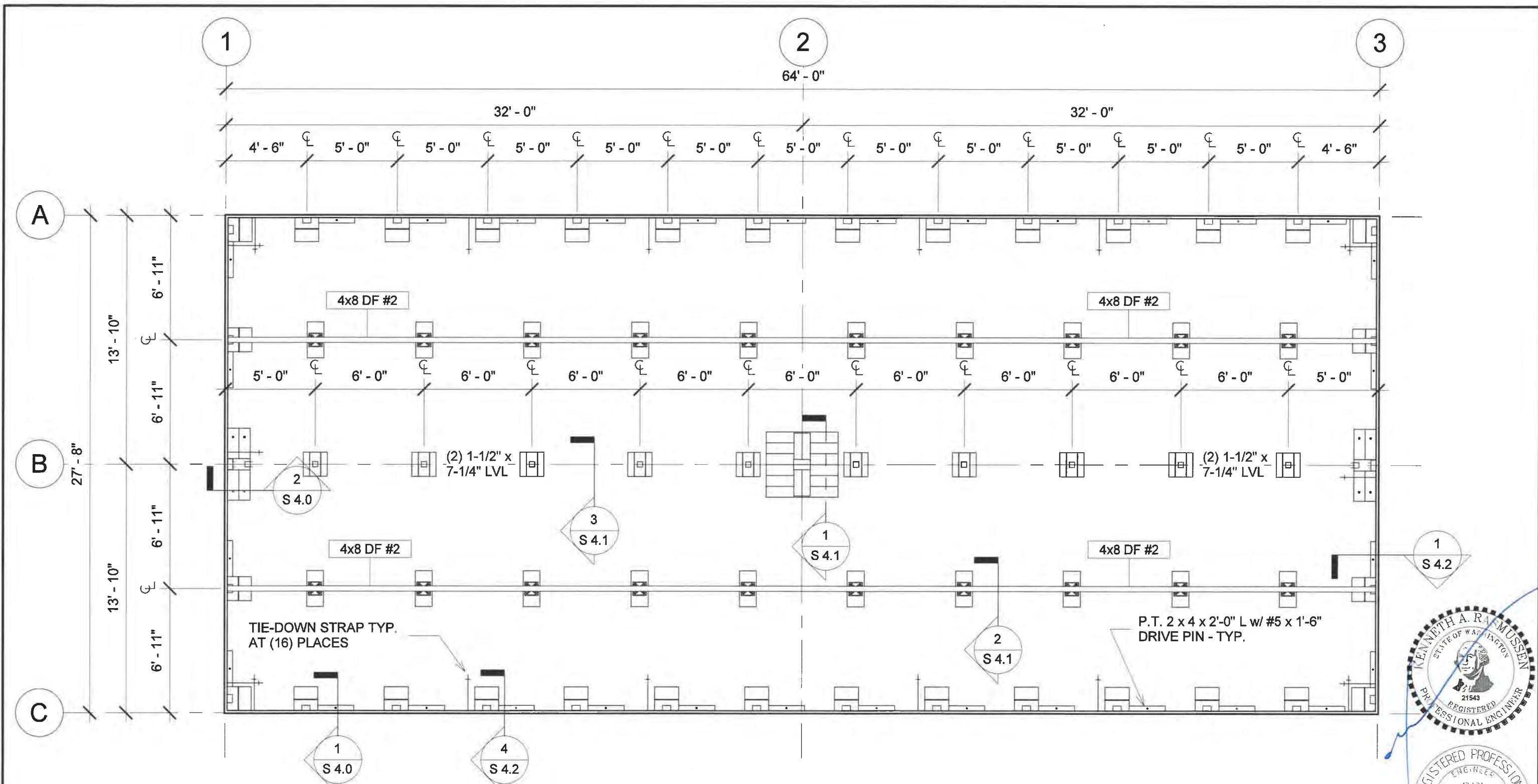


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[illegible]



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



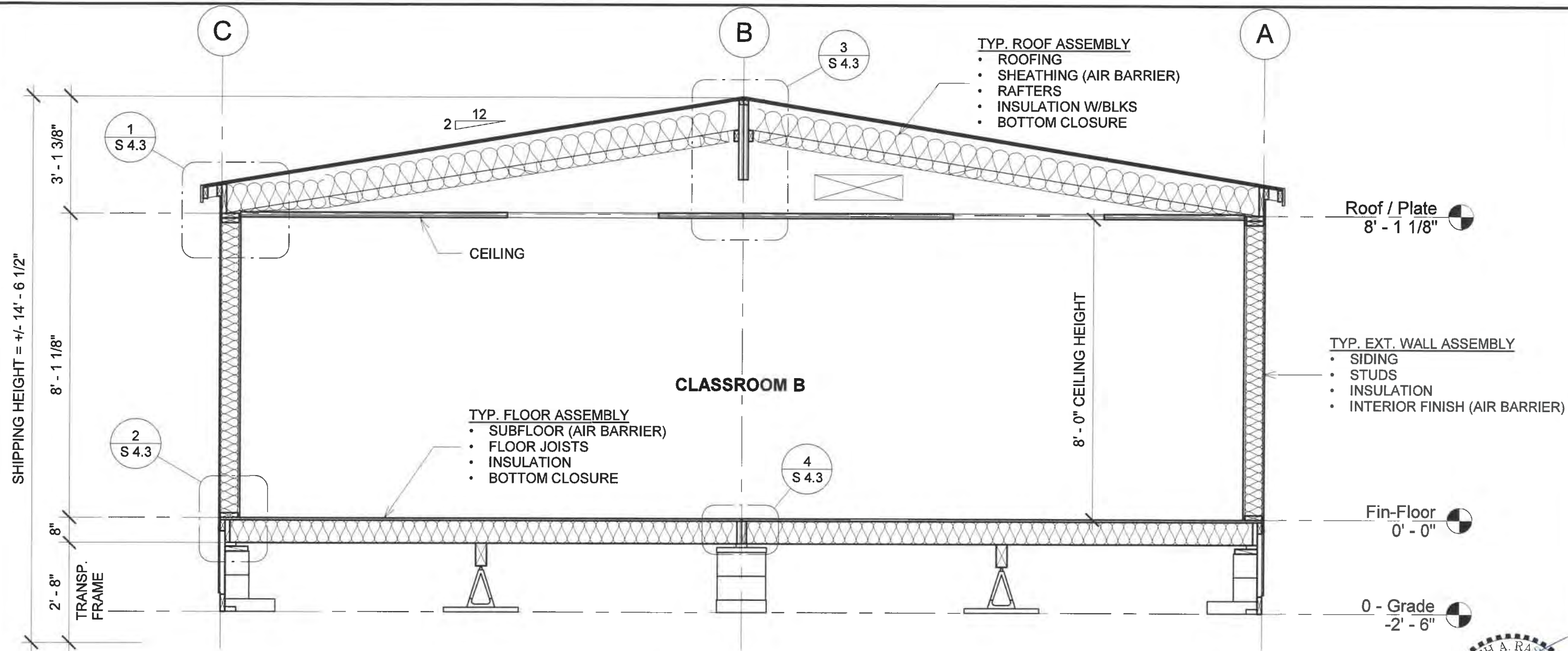
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SHEET	FOUNDATION PLAN
PROJ.	28' x 64' MODULAR CLASSROOM SUMNER SD II (BLDG #8)
ADDRESS	1707 MAIN ST. SUMNER, WA 98390
DRW	SR

JOB#	2018-RN-23-8 DMP: 2016 OR/WA ADD #7
SHEET #	S 1.0
DATE	4/3/18



NOTES:
 PER WSEC C402.5.1.2 BUILDING TEST. THE COMPLETED BUILDING SHALL BE TESTED AND AIR LEAKAGE RATE OF THE BUILDING ENVELOPE SHALL NOT EXCEED 0.40 CFM/SQ. FT. AT A PRESSURE DIFFERENTIAL OF 0.3 INCHES OF WATER GAUGE IN ACCORDANCE WITH ASTM E 779 OR AN EQUIVALENT METHOD APPROVED BY THE CODE OFFICIAL.

THE AIR BARRIER SHALL BE CONTINUOUS FOR THE THERMAL ENVELOPE AND ACROSS THE JOINTS AND ASSEMBLIES. JOINTS AND SEAMS SHALL BE SEALED, INCLUDING SEALING TRANSITIONS IN PLACES AND CHANGES IN MATERIALS. PENETRATIONS OF THE AIR BARRIER AND PATHS OF AIR LEAKAGE SHALL BE CAULKED, GASKETED, OR OTHERWISE SEALED IN A MANNER COMPATIBLE WITH THE CONSTRUCTION MATERIALS AND LOCATION

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



REV.	DESCRIPTION	DATE	BY				SHEET	BUILDING SECTIONS		JOB#	2018-RN-23-8
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							ADDRESS	1707 MAIN ST. SUMNER, WA 98390		SHEET #	S 3.0
							DRW	SR		DATE	4/3/18

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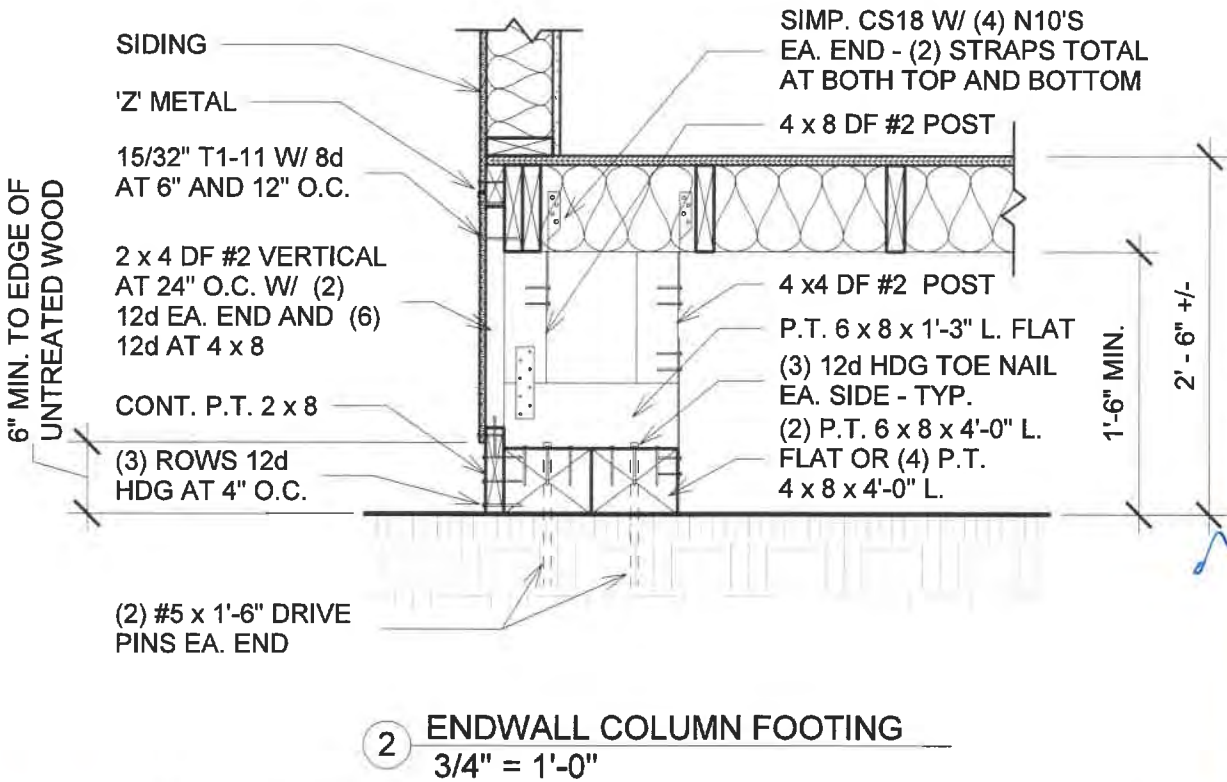
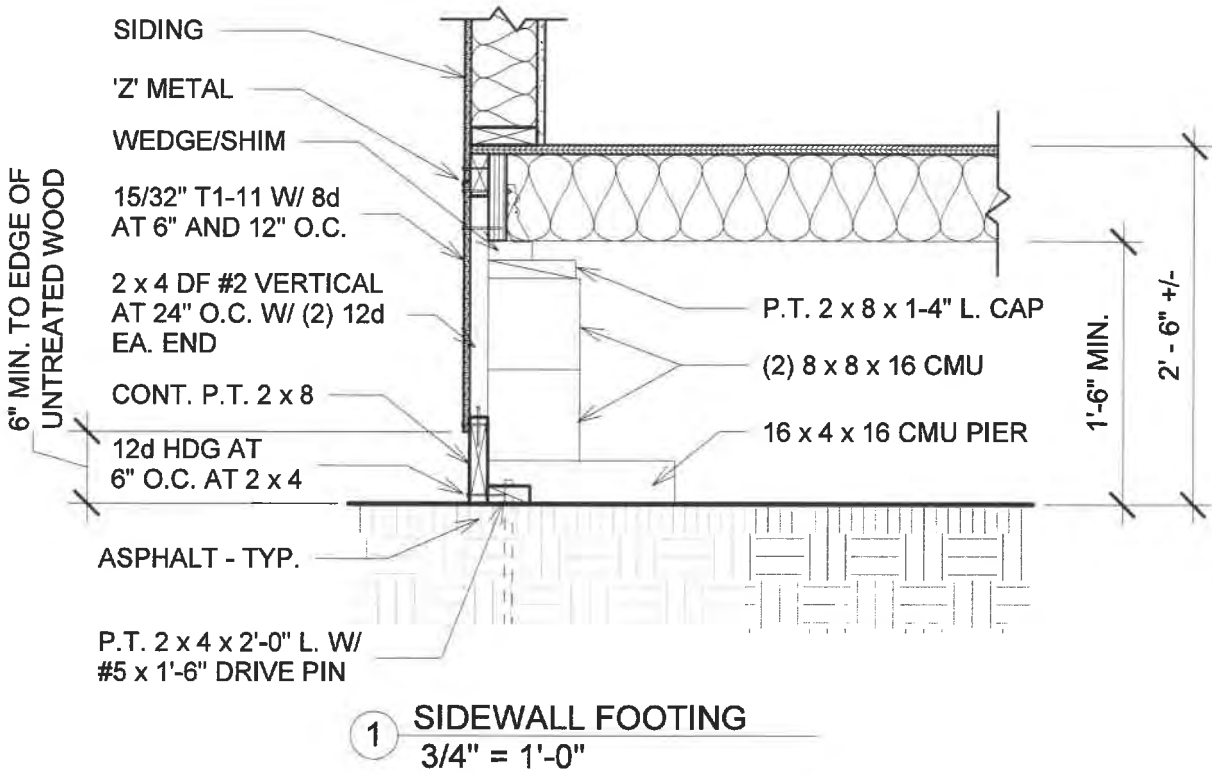
FOUNDATION NOTES

1. 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.

2. DESIGN LOADS:

ROOF DEAD LOAD	12 PSF
ROOF SNOW LOAD	25 PSF
FLOOR DEAD LOAD	10 PSF
FLOOR LIVE LOAD	50 PSF
WIND LOAD	Lambda = 1.0 Vult = 140 MPH (Vasd = 108 MPH) 3 SECOND GUST - EXP. B
SEISMIC	BEARING WALL SYSTEM: S _s = 1.500, F _a = 1.000 S _{Ds} = 1.000, RISK CATEGORY II I _e = 1.0, SEISMIC DESIGN CATEGORY D, SITE CLASS D
ALLOWABLE BEARING CAPACITY	1,500 PSF AT SOIL

3. 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.
4. ALL FASTENERS TO BE HOT DIPPED GALVANIZED OR EQUAL AT P.T. MEMBERS.
5. VENT CRAWL SPACE w/ (6) 15" SQ. METAL VENTS (MODERN STANDARD). INSTALL 6 MIL. VAPOR BARRIER ON GROUND IN ENTIRE CRAWL SPACE. LAP VAPOR BARRIER JOINTS MIN 12". (VAPOR BARRIER NOT REQUIRED AT ASPHALT OR CONCRETE IF OCCURS)
6. CONNECT STORM WATER FROM ROOF GUTTERS AND DOWNSPOUTS AND DIRECT AWAY FROM BUILDING PAD TO AN APPROVED DRAINAGE SYSTEM.
7. 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.



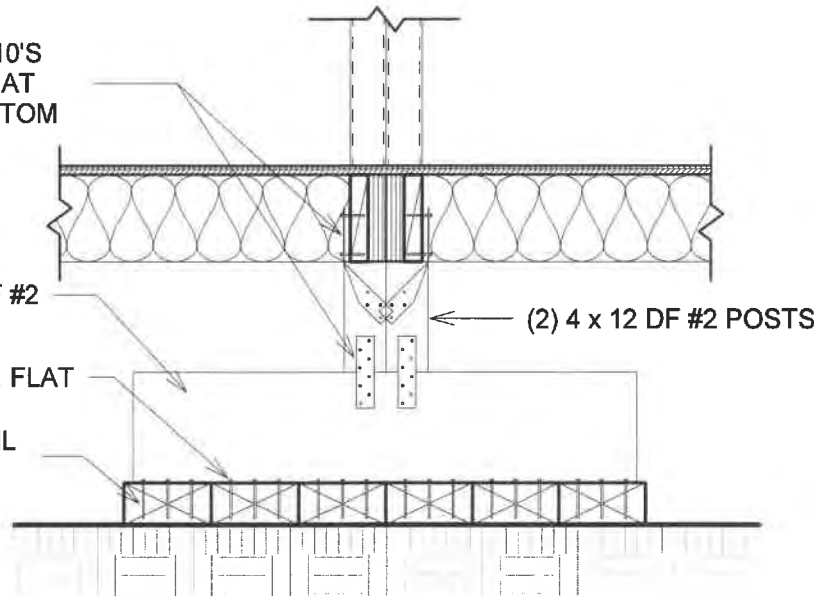
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SIMP. CS18 W/ (4) N10'S
EA. END - (4) TOTAL AT
BOTH TOP AND BOTTOM

(2) 6 x 10 x 3'-6" L. DF #2

(6) P.T. 4 x 8 x 4'-0" L. FLAT

(3) 12d HDG TOE NAIL
EA. SIDE - TYP.



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

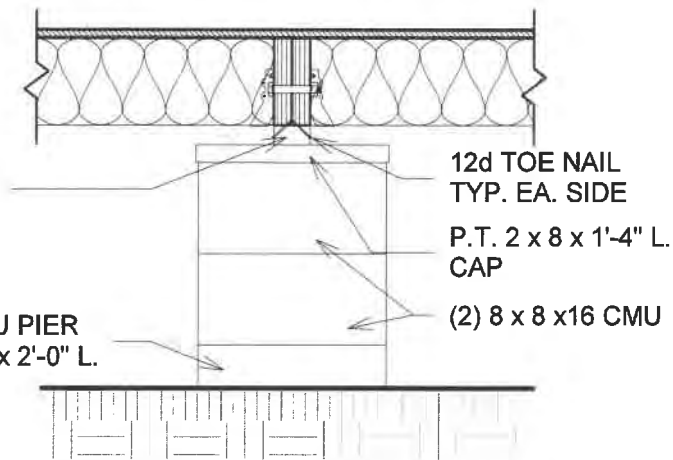
WEDGE/ SHIM

16 x 4 x 16 CMU PIER
OR P.T. 2 x 12 x 2'-0" L.

12d TOE NAIL
TYP. EA. SIDE

P.T. 2 x 8 x 1'-4" L.
CAP

(2) 8 x 8 x 16 CMU



3 MARRIAGE LINE FOOTING
3/4" = 1'-0"

12d TOE NAIL
EA. SIDE

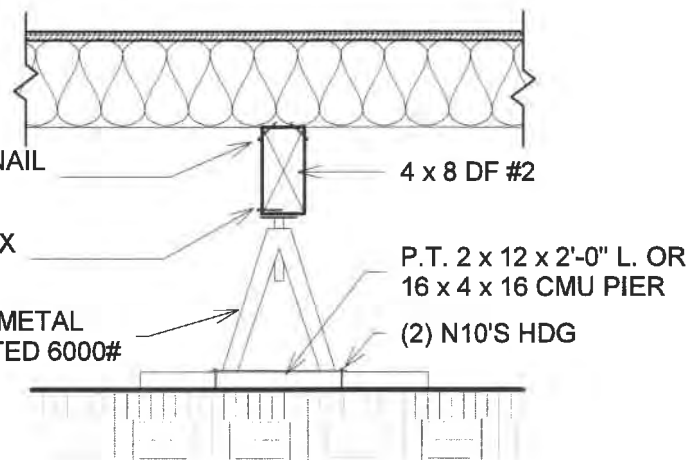
6d DUPLEX
OR N10

PRE-FAB METAL
PIER, RATED 6000#

4 x 8 DF #2

P.T. 2 x 12 x 2'-0" L. OR
16 x 4 x 16 CMU PIER

(2) N10'S HDG



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

(2) 12d TOE NAIL
EA. SIDE - TYP.

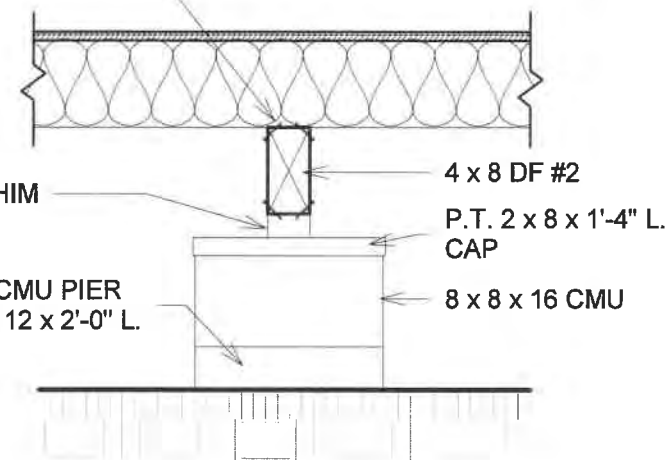
WEDGE/ SHIM

16 x 4 x 16 CMU PIER
OR P.T. 2 x 12 x 2'-0" L.

4 x 8 DF #2

P.T. 2 x 8 x 1'-4" L.
CAP

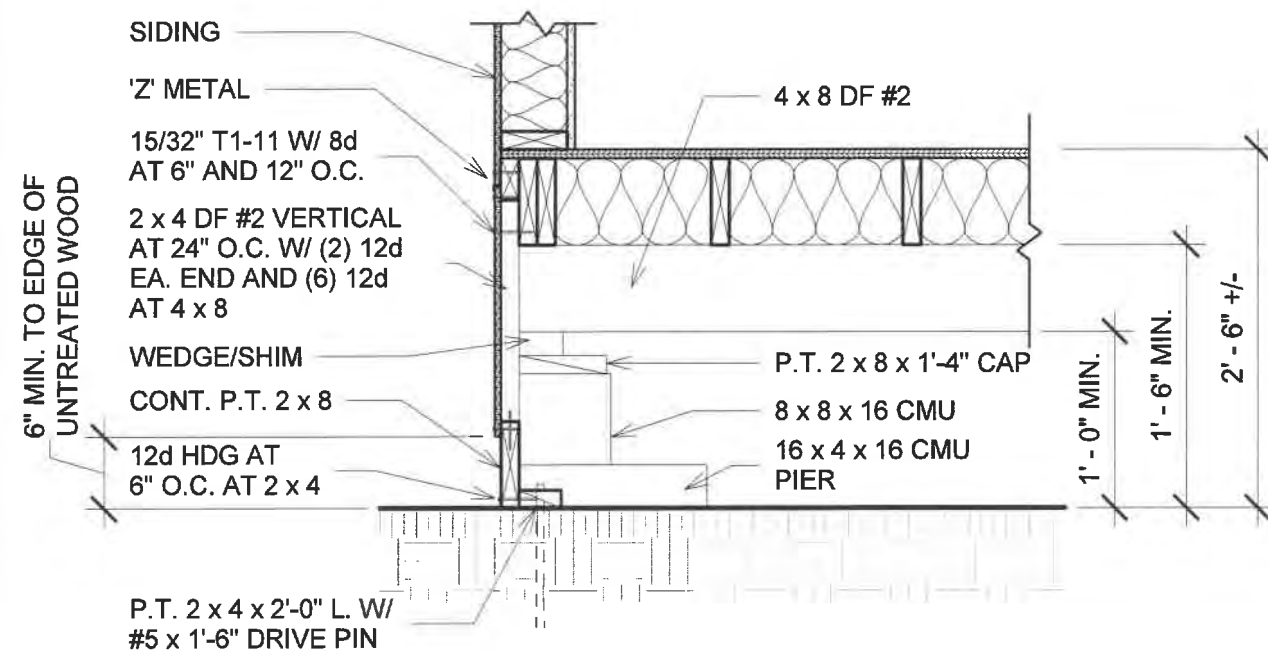
8 x 8 x 16 CMU



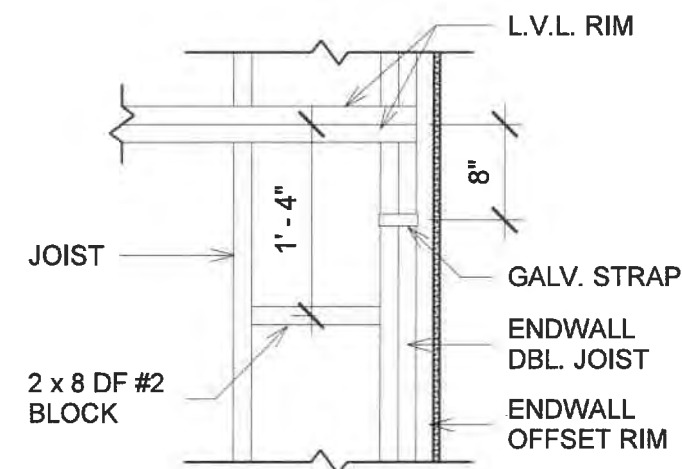
4 MID-SPAN FOOTING - ALTERNATE
3/4" = 1'-0"



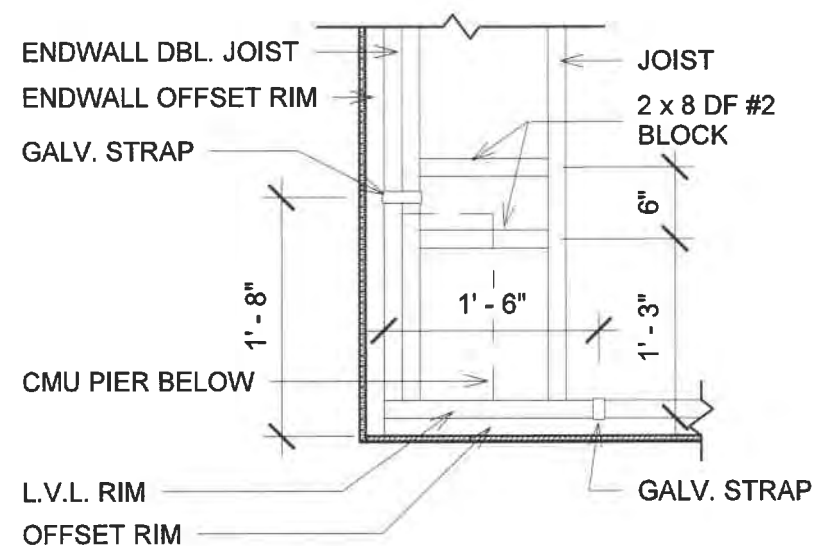
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					PROJ. 28' x 64' MODULAR CLASSROOM SUMNER SD II (BLDG #8)	SHEET # S 4.1	
					ADDRESS 1707 MAIN ST. SUMNER, WA 98390	DRW SR DATE 4/3/18	



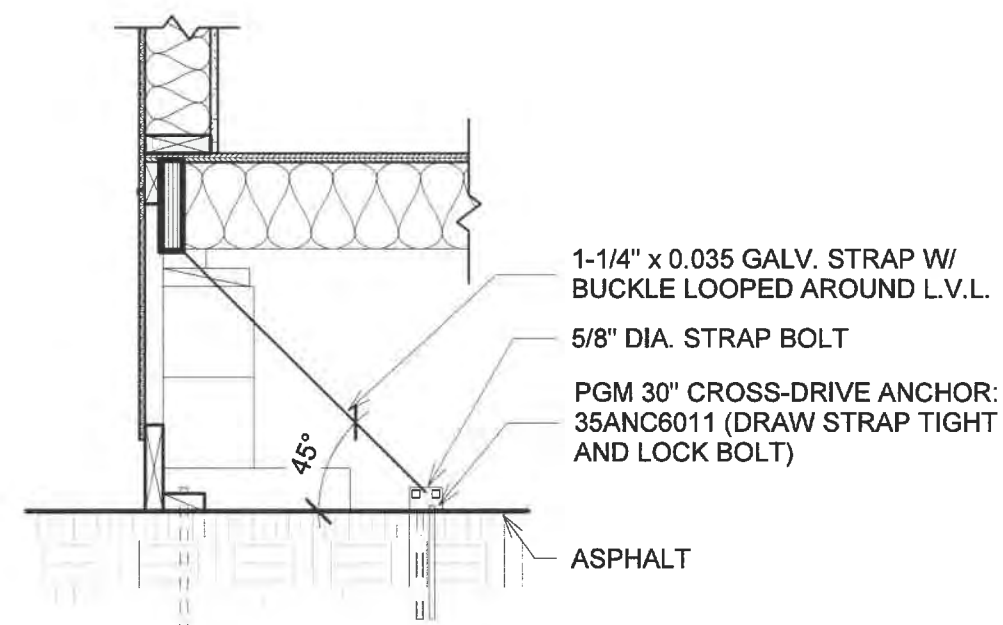
1 ENDWALL FOOTING AT BEAM
3/4" = 1'-0"



3 TIE-DOWN AT MARRIAGE
3/4" = 1'-0"



2 TIE-DOWN AT CORNER
3/4" = 1'-0"



4 TIE-DOWN STRAP
3/4" = 1'-0"



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					DRW	SR		DATE	4/3/18

ROOF SHEATHING, (2) LAYERS
AT EXPOSED

(2) 1-1/2" DIA. VENT HOLES
SCREENED PER RAFTER BAY

2 x 4 RIMS W/ 4 x 4 OUTLOOKERS
AT 4'-0" W/ (4) 12d END NAIL EA.
END

DRIP EDGE

12d SCREWSHANK AT 8" O.C.

FASCIA

1 x 2 TRIM

2 x RIM JOIST W/ (3) 12d
END NAIL TO EA. RAFTER

4'-0" MIN. PLATE SPLICE
W/ (12) 12d EA. END - TYP.

'Z' METAL AND BLOCKING AT SIDING
JOINTS (WHERE OCCURS)

STUD W/ INSULATION
SIDING

SIMP. CS18 W/ (5) N10'S OR
(5) 10d'S EA. END AT 4'-0" O.C.

ROOFING

INSULATION W/ FS-25

2x INSUL. BLOCK

CEILING

BEVEL BLOCK

12d AT 24" O.C.

12d AT 6" O.C.

INTERIOR FINISH

1 SIDEWALL EAVE
1" = 1'-0"

SIDING
STUDS W/
INSULATION

'Z' METAL

LIP BARRIER WRAP
8" BELOW EDGE OF
SIDING

OFFSET RIM

RIM JOIST

INTERIOR FINISH

SUBFLOOR

INSULATION W/ FS-25

SIMP. LU26 W/(6) N10'S
TO RIM AND (4) N10'S TO JOIST

2 SIDEWALL FLOOR
1" = 1'-0"

RIDGE VENT

2 x 2 FILLER x 9" L. AT
24" O.C. W/ 12d EA. END

ROOFING
RAFTERS

HOLD PLYWOOD AND ROOFING 7/8"
BACK FROM EA. SIDE OF RIDGE
CONT. BUTYL STRIP

INSULATION W/
FS-25

2x INSUL. BLOCK

(6) 5/8" DIA. M.B.'s OR
THR'D ROD W/ NUTS
AND WASHERS AS SHOWN
ON FLOOR PLAN

2 x 4 LEDGER W/ (5) 12d AT EA.
RAFTER AND (3) 12d EA. END
AT BUTT JOINTS- TYP.

RIDGE BEAM

FIELD INSTALL ACOUSTIC
CEILING THIS ROW ONLY

3 ROOF MARRIAGE
1" = 1'-0"

5/8" THREADED ROD W/
WASHERS AT 6'-0" O.C. AND
+/- 2'-0" FROM ENDS
(ADJUST SPACING AS
REQ'D TO AVOID JOISTS)

SUBFLOOR

FLOOR JOIST

INSULATION W/
FS-25

SIMP. LU26 W/ (6) N10'S
TO RIM AND (4) N10'S TO JOIST

RIM JOIST

4 FLOOR MARRIAGE
1" = 1'-0"

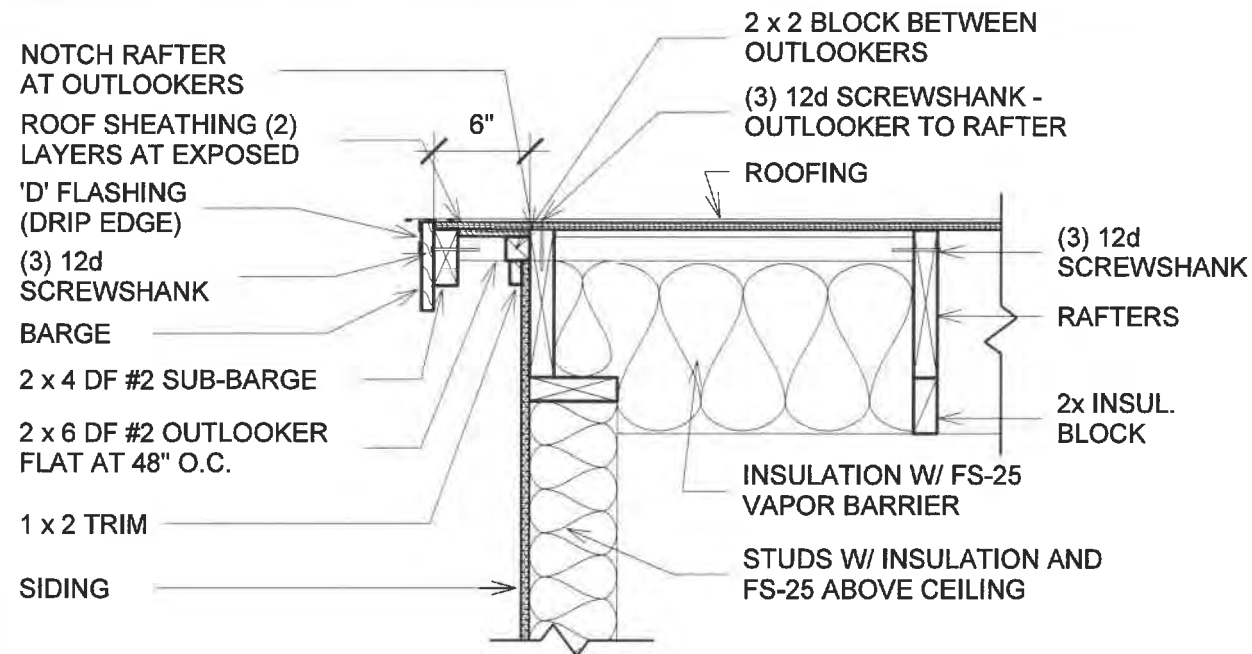


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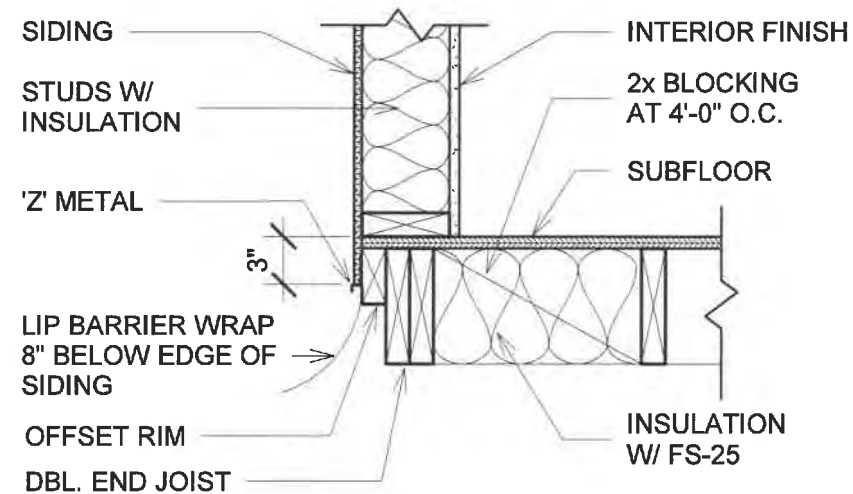
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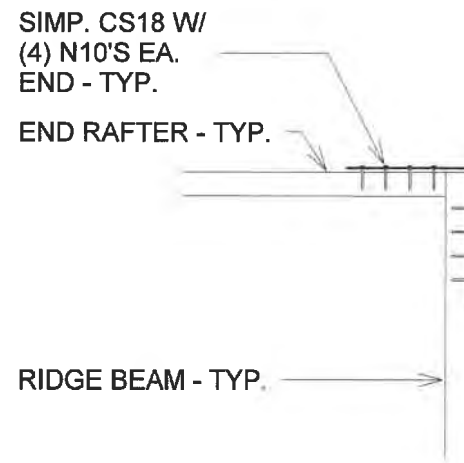
SHEET	DETAILS	JOB#	2018-RN-23-8
PROJ.	28' x 64' MODULAR CLASSROOM SUMNER SD II (BLDG #8)	DMP:	2016 OR/WA ADD #7
ADDRESS	1707 MAIN ST. SUMNER, WA 98390	SHEET #	S 4.3
DRW	SR	DATE	4/3/18



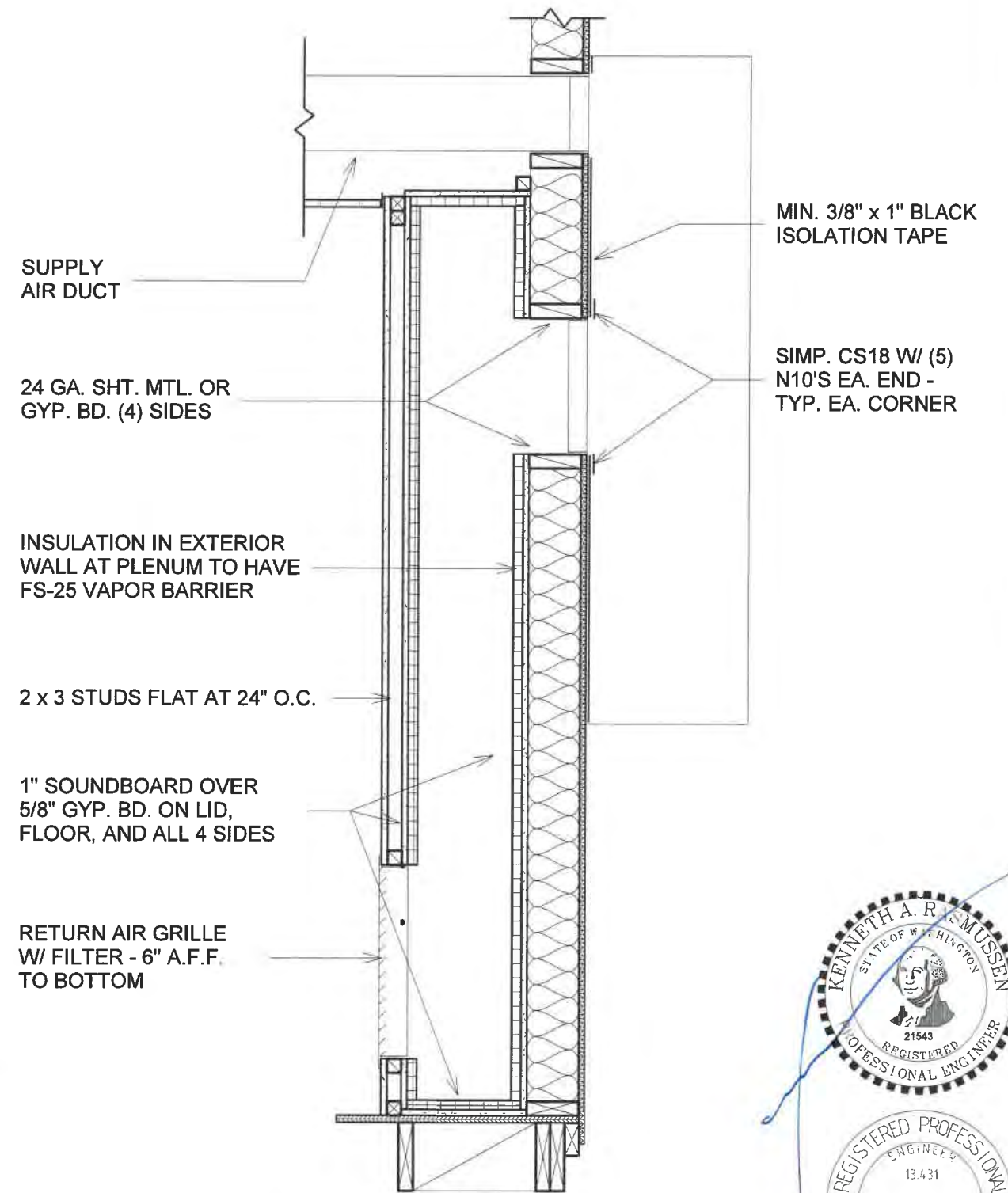
1 ENDWALL GABLE
 1" = 1'-0"



2 ENDWALL FLOOR
 1" = 1'-0"



3 PLAN VIEW AT CHORD TIE
 1" = 1'-0"

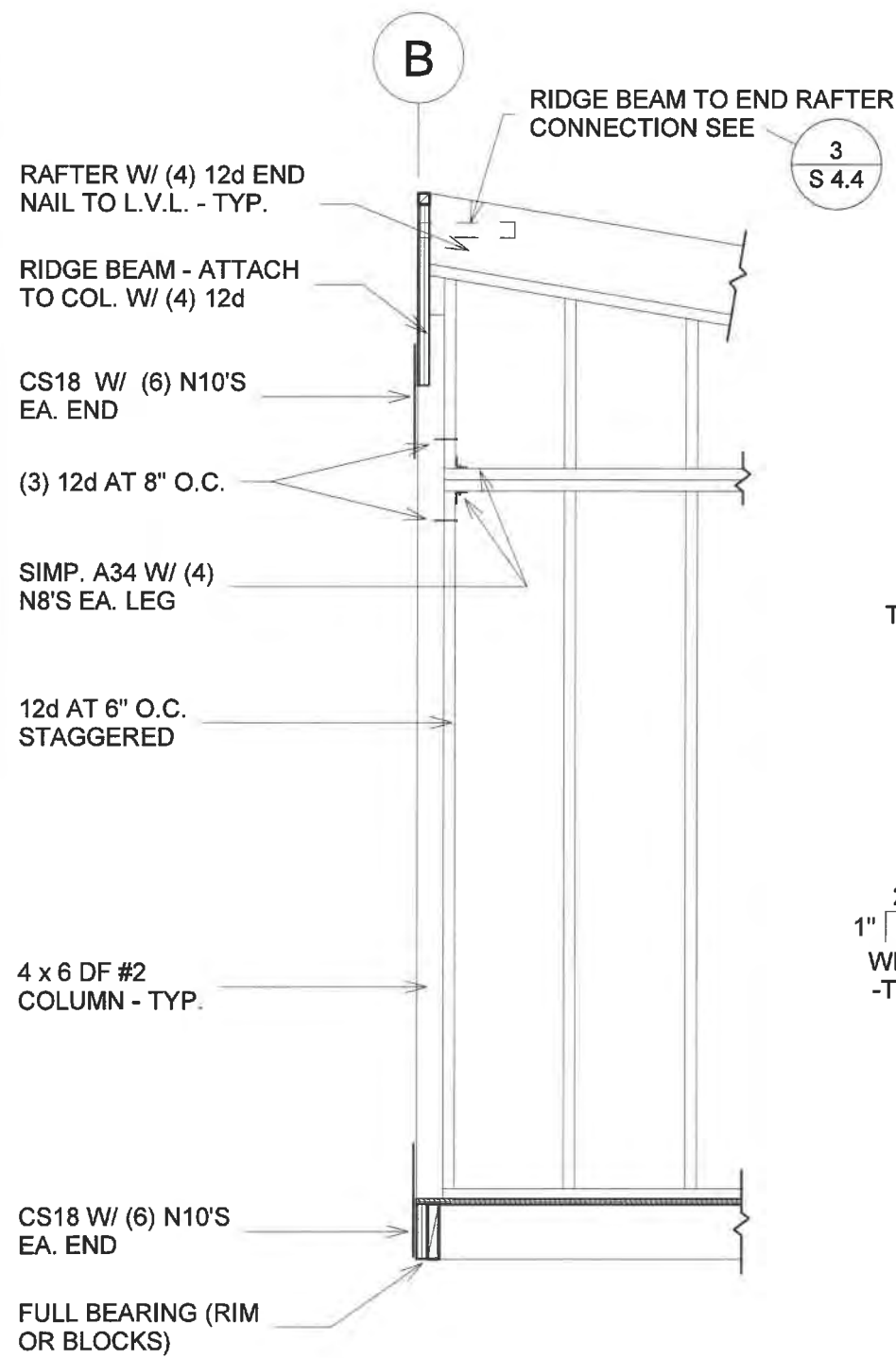


4 PLENUM SECTION
 3/4" = 1'-0"

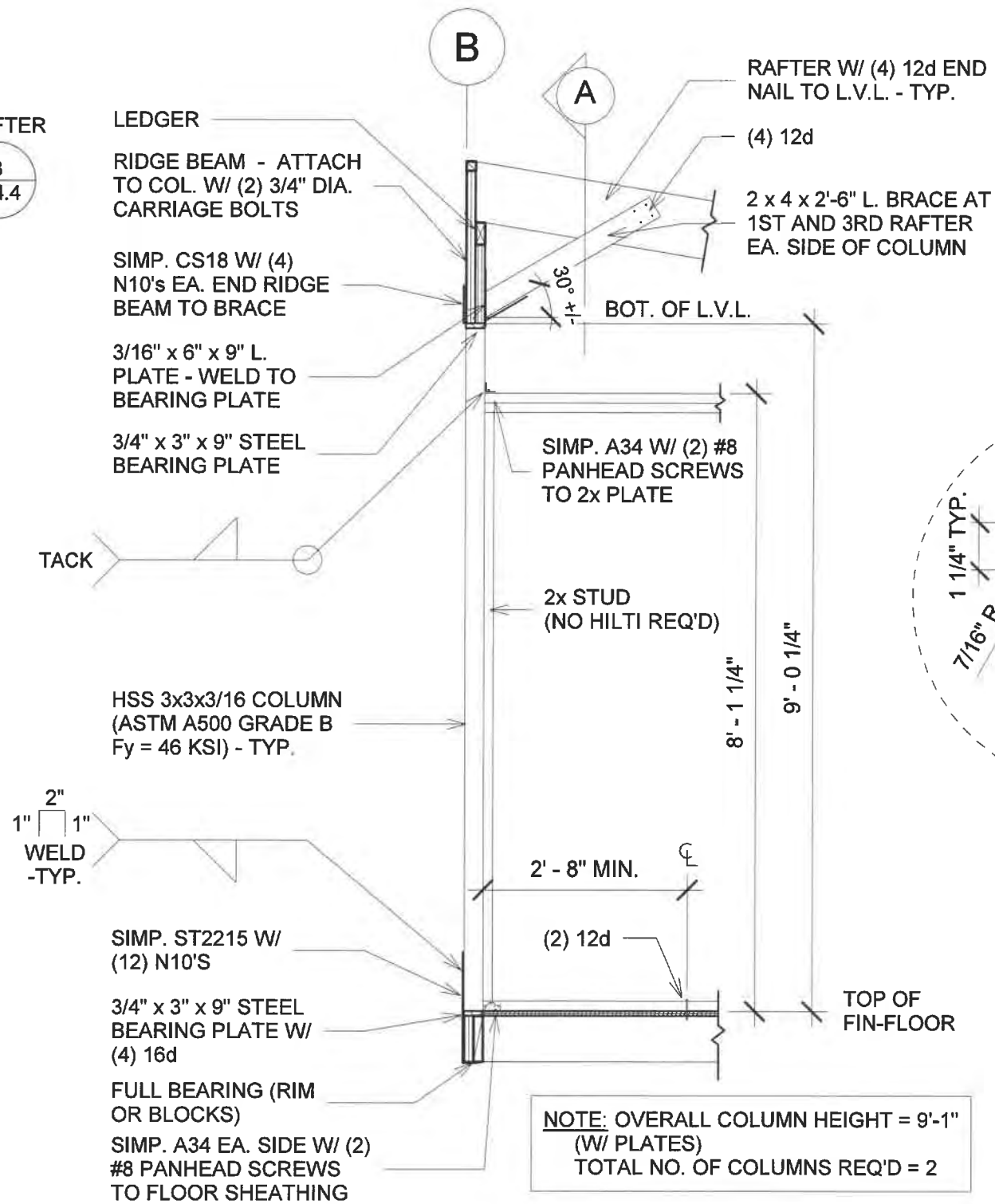


EXPIRES 12/31/18

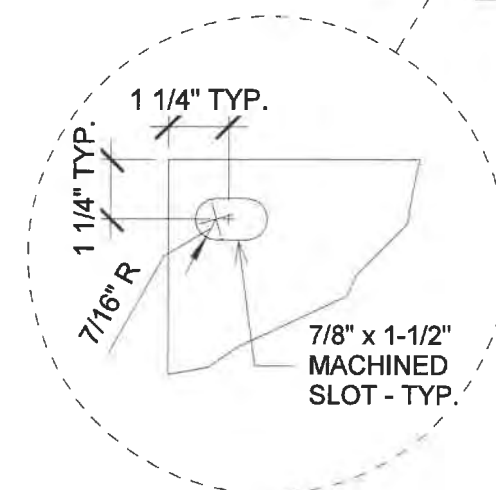
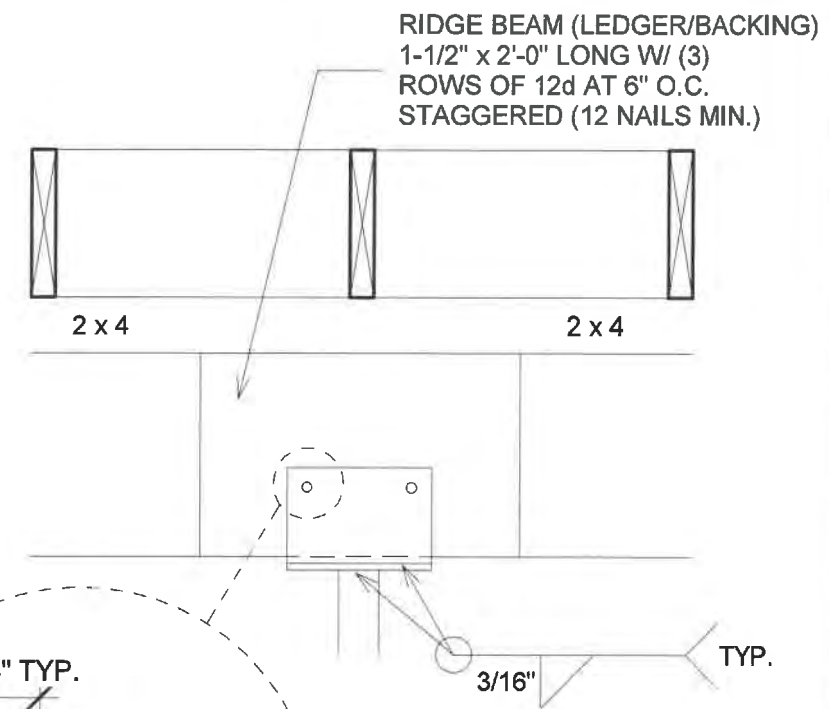
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					ADDRESS 1707 MAIN ST. SUMNER, WA 98390		DRW SR	DATE 4/3/18



1 END WALL COLUMN
1/2" = 1'-0"

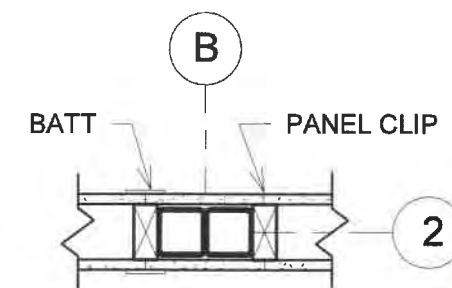


2 CENTER COLUMN
1/2" = 1'-0"



SECTION A

SCALE: 1" = 1'-0"



PLAN VIEW

SCALE: 1" = 1'-0"



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















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SHEET	DETAILS
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ADDRESS	1707 MAIN ST. SUMNER, WA 98390
DRW	SR

JOB#	2018-RN-23-8 DMP: 2016 OR/WA ADD #7
SHEET #	S 4.5
DATE	4/3/18

ELECTRICAL SYMBOLS LEGEND

	2' x 4' LED LAY-IN FIXTURE W/ INTEGRAL nLIGHT DAYLIGHT AND OCCUPANCY SENSORS
	2' x 4' LED LAY-IN FIXTURE - nLIGHT ENABLED
	13" LED SURFACE MOUNTED FIXTURE
	EXTERIOR LED WALL MOUNTED LIGHT FIXTURE +86" A.F.F. PC = PHOTOCELL WP = WEATHERPROOF E = EMERGENCY LIGHT W/ BATTERY BACKUP
	DUPLEX RECEPTACLE +17" A.F.F. (U.N.O.) GFCI = GROUND FAULT CIRCUIT INTERRUPTER WP = IN USE WEATHERPROOF COVER WR = WATER RESISTANT RECEPTACLE
	CONTROLLED DUPLEX RECEPTACLE +17" A.F.F. (U.N.O.) 50% OF RECEPTACLE CONTROLLED BY OCCUPANCY SENSOR AND VISIBLY DIFFERENTIATED PER WSEC 405.10
	CONTROLLED RECEPTACLE POWER PACK
	LIGHTING CONTROL WALL SWITCH
	JUNCTION BOX
	THERMOSTAT +48" A.F.F. TO TOP OF CONTROLS
	PHONE/DATA BOX - 3/4" CONDUIT UP (RACEWAY ONLY) +17" A.F.F. (U.N.O.)
	CLOCK RECEPTACLE (120V) +88" A.F.F.
	DISCONNECT
	AUDIO / VISUAL FIRE ALARM (RACEWAY ONLY) +86" TO CENTERLINE
	MANUAL PULL STATION (RACEWAY ONLY) +45" TO CENTERLINE
	VISUAL ALARM (RACEWAY ONLY) +82" TO CENTERLINE

ELECTRICAL NOTES

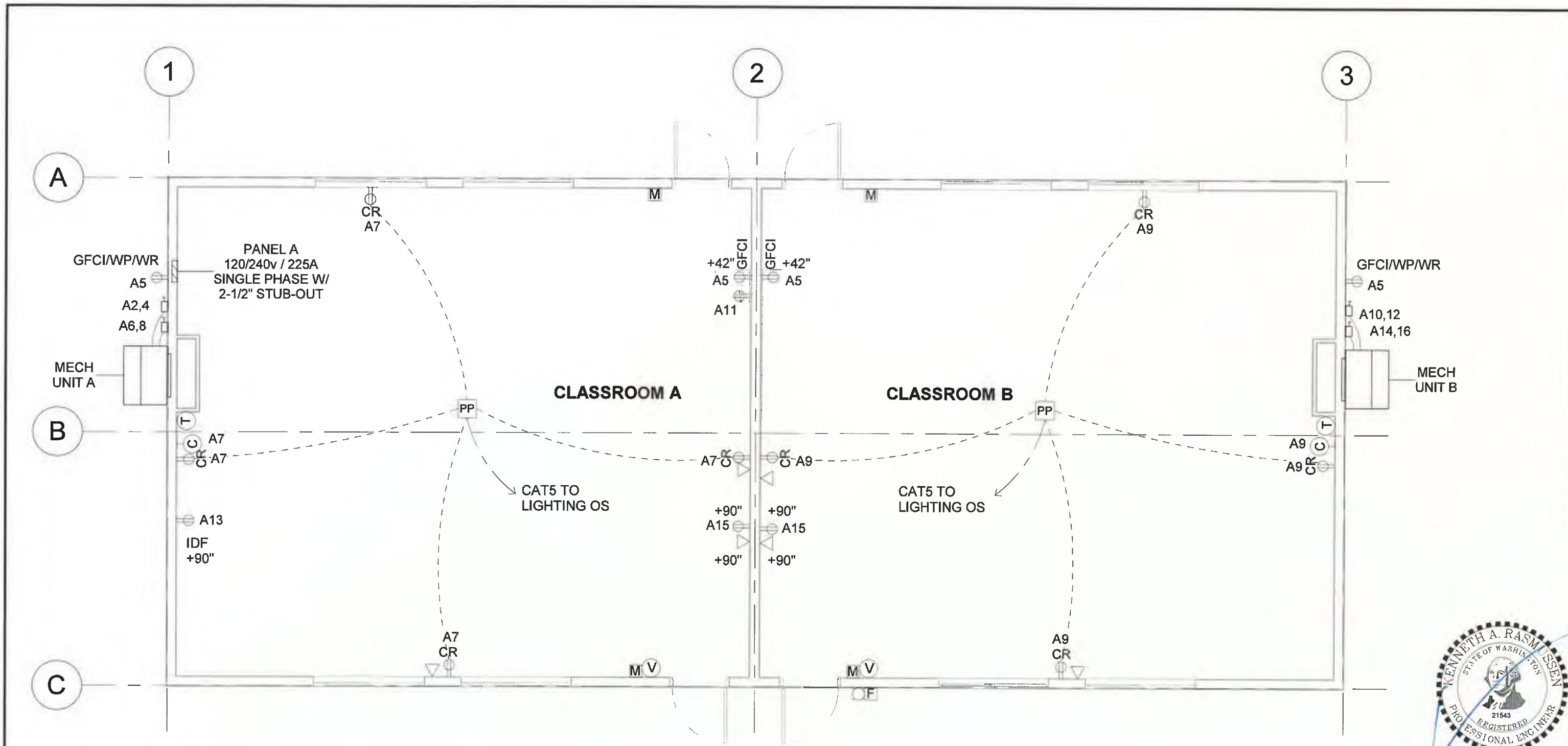
1. CONDUIT SHALL BE ELECTRICAL METALLIC TUBING AND METAL CLAD CABLE
2. EXTERIOR RECEPTACLES SHALL BE WEATHER RESISTANT TYPE W/ IN USE WEATHERPROOF COVER
3. FLUORESCENT LUMINAIRES WITH DOUBLE ENDED LAMPS THAT CAN BE SERVICED IN PLACE AND SHALL HAVE AN INTERNAL OR EXTERNAL DISCONNECT PER NEC 410.130G
4. BUILDING SERVICE SHALL BE SERVED BY ONLY ONE SERVICE OR FEEDER PER NEC 225.30 AND 230.2
5. SERVICE OR FEEDER DISCONNECT SHALL BE INSTALLED PER NEC 230.70. FOR BUILDINGS IN THE STATE OF WASHINGTON SERVICE OR FEEDER DISCONNECT SHALL BE INSTALLED PER WAC 296-46B-230
6. PERMANENT MEANS OF LOCKING OUT DISCONNECT TO MECHANICAL UNIT(S) SHALL BE PROVIDED PER NEC 424.19
7. PERMANENT MEANS OF LOCKING OUT DISCONNECT TO WATER HEATER(S) SHALL BE PROVIDED PER NEC 422.31(B)
8. GASKET ALL EXTERIOR WALL BOX PLATE COVERS
9. 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.
- 10.PER NEC 406.9(B)(1) 15 AND 20 AMP RECEPTACLES INSTALLED IN WET LOCATION SHALL HAVE AN ENCLOSURE THAT WEATHERPROOF 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.
- 11.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)
12. PER NFPA 72, NEC 760 AND WAC 296-46B-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.
13. PER NEC 110.22 AND WAC 296-46B-220-032 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

LIGHTING PLAN NOTES

1. THIS BUILDING PROVIDES LIGHTING "ADDITIONAL EFFICIENCY PACKAGE OPTIONS" PER C406.3 AND C406.4, TO INCLUDE WAC 51-11C, SECTION C406.4 #2, EXCEPTION #3
2. LIGHT LEVELS TO MEET WAC 246-366-115 TABLE 2
3. OCCUPANCY SENSOR(S) IN EACH ROOM WILL BE WIRED TO CONTROL ALL LIGHT FIXTURES IN THAT ROOM.
4. 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.
5. DAYLIGHTING AND OCCUPANCY SENSORS ARE INTEGRAL TO EACH LIGHT FIXTURE AS SHOWN AND PROGRAMMED TO COVER EACH DAYLIGHT ZONE. OCCUPANCY SENSORS ARE PROGRAMMED TO CONTROL ALL FIXTURES IN THE SPACE



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					PROJ. 28' x 64' MODULAR CLASSROOM SUMNER SD II (BLDG #8)	SHEET # E 0.1
					ADDRESS 1707 MAIN ST. SUMNER, WA 98390	DATE 4/3/18
					DRW SR	



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



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LIGHT FIXTURE WIRING LEGEND

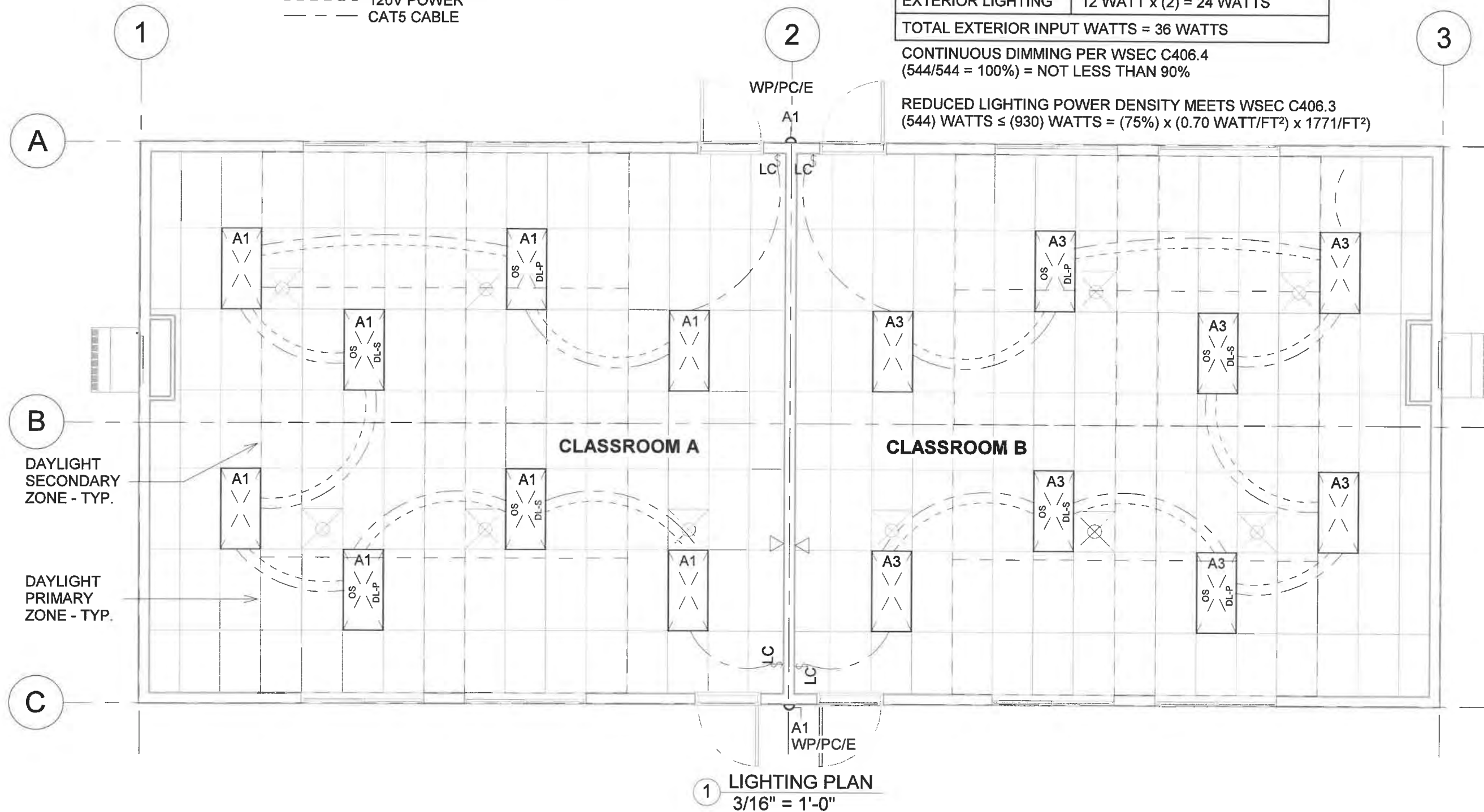
----- 120V POWER
 --- CAT5 CABLE

ELECTRICAL LIGHTING SUMMARY

CLASSROOMS	34 WATT x (16) = 544 WATTS
TOTAL INTERIOR INPUT WATTS = 544 WATTS	
EXTERIOR LIGHTING	12 WATT x (2) = 24 WATTS
TOTAL EXTERIOR INPUT WATTS = 36 WATTS	

CONTINUOUS DIMMING PER WSEC C406.4
 (544/544 = 100%) = NOT LESS THAN 90%

REDUCED LIGHTING POWER DENSITY MEETS WSEC C406.3
 (544) WATTS ≤ (930) WATTS = (75%) x (0.70 WATT/FT²) x 1771/FT²



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				PROJ. 28' x 64' MODULAR CLASSROOM SUMNER SD II (BLDG #8)		SHEET # E 2.0
				ADDRESS 1707 MAIN ST. SUMNER, WA 98390		DRW SR DATE 4/3/18

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MAIN DISTRIBUTION PANEL PANEL A
MOUNTING Recessed

PROJECT NO: 2018-RN-23-8
DATE: 4/3/18

Load Name	Rating	Circuit Number	Number of Poles	A		B		Number of Poles	Circuit Number	Rating	Load Name
Lighting/Fan Classroom A	20 A	A1	1	294 VA	6600 VA			2	A2	60 A	HVAC Classroom A
Lighting/Fan Classroom B	20 A	A3	1			272 VA	6600 VA	--	A4	--	--
Exterior Receptacles	20 A	A5	1	720 VA	3120 VA			2	A6	30 A	HVAC Classroom A
Receptacles Classroom A	20 A	A7	1			900 VA	3120 VA	--	A8	--	--
Receptacles Classroom B	20 A	A9	1	900 VA	6600 VA			2	A10	60 A	HVAC Classroom B
Water Heater	20 A	A11	1			1500 VA	6600 VA	--	A12	--	--
IDF Receptacle	20 A	A13	1	180 VA	3120 VA			2	A14	30 A	HVAC Classroom B
Projector Receptacles	20 A	A15	1			360 VA	3120 VA	--	A16	--	--
		A17							A18		
		A19							A20		
		A21							A22		
		A23							A24		
		A25							A26		
		A27							A28		
		A29							A30		

21534 VA

22472 VA

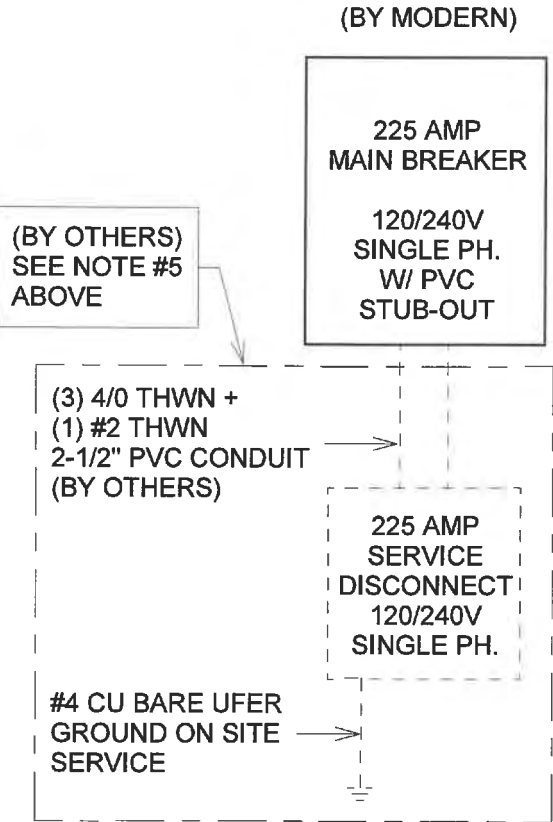
	TOTAL PANEL VA=	44006 VA	183 A	=TOTAL PANEL AMPS
BUSS SIZE	225 A		VOLTAGE	120/240 Single
MAIN BREAKER	225 A		PHASE	1

ITEM	CONNECTED LOAD	DEMAND FACTOR	CALCULATED LOAD
LIGHTS	5310 VA	125.00%	6638 W
SIGN CIRCUIT			0 W
RECEPTACLE	3060 VA	100.00%	3060 W
DED. RECEPTACLE			0 W
MOTORS & COMPRESSORS			
EXHAUST FAN			0 W
LARGEST MOTOR	0 VA	0.00%	0 VA
HEATING & A/C (Per Mfg's Specs)			
TOTAL HEAT & A/C LOAD			
	38880 VA	100.00%	38880 W
MISCELLANEOUS			
WATER HEATER	1500 VA	100.00%	1500 W
CONNECTED LOAD			
TOTAL VA =	48750 VA	TOTAL VA =	50078 VA
TOTAL AMPS =	203 A	TOTAL AMPS =	209 A

NOTE: CONNECTED LOAD FOR LIGHTS IS FROM NEC TABLE 220.12

ONE-LINE DIAGRAM NOTES

- EMT CONDUIT SHALL NOT BE USED WITH UNFUSED CONDUCTORS INSIDE BUILDING LINES
- FIELD VERIFY AIC RATING REQUIREMENTS
- BUILDING / SERVICE DISCONNECTING MEANS MUST BE LOCATED ON OR WITHIN 15 FEET OF THE BUILDING AND MUST HAVE LABEL IDENTIFYING IT'S FUNCTION AS THE BUILDING DISCONNECT PER WAC 296-46B-225
- GROUNDING TO BE IN ACCORDANCE TO NEC 250.52(A)(5)
- SITE INSTALLED PORTION OF ELECTRICAL DISTRIBUTION SYSTEM DESIGN IS GENERIC. SUBJECT TO APPROVAL OF ELECTRICAL LOCAL AUTHORITY HAVING JURISDICTION PLAN REVIEW AND/OR INSPECTION OF SITE INSTALLED ELECTRICAL DISTRIBUTION SYSTEM



ONE-LINE DIAGRAM

NO SCALE



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SHEET ELEC. PANELS & LOAD CALCS.
PROJ. 28' x 64' MODULAR CLASSROOM
SUMNER SD II (BLDG #8)

ADDRESS 1707 MAIN ST. SUMNER, WA 98390





DRW SR

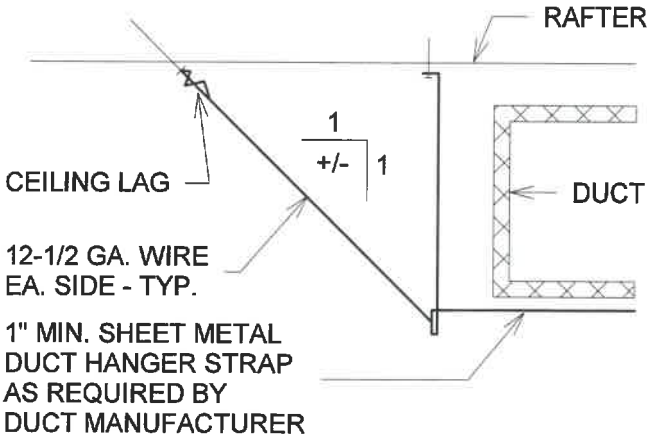
JOB# 2018-RN-23-8
DMP: 2016 OR/WA ADD #7
SHEET #
E 3.0
DATE 4/3/18

MECHANICAL NOTES

1. MECHANICAL UNIT:
(2) 3.0 TON WALL HUNG HEAT PUMP (230/208-1)
BARD W36HA (10.0 EER)
10 KW ELECTRICAL HEAT AND ECONOMIZER
2. EXHAUST FAN:
NONE
3. CONTROLS:
THERMOSTAT:
HONEYWELL TH8321R1001/U
4. 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 WSEC C403.2.8.1 AND C403.2.8.2
CONSTRUCTION:
DUCTWORK TO BE CONSTRUCTED AS
LOW PRESSURE DUCT SYSTEM PER
WSEC C403.2.8.3.1
5. VOLUME DAMPERS:
PROVIDE VOLUME DAMPERS TO CONTROL
AIRFLOW AT EACH TAKE-OFF
6. DESIGN MECHANICAL EQUIPMENT TO MEET NC-35
NOISE CRITERION AND MECHANICAL BACKGROUND
NOISE AT OR BELOW 45 DBA.
LOCATE BUILDINGS AWAY FROM NOISE AND
POLLUTION SOURCES

HVAC SYMBOL LEGEND

-  2' x 2' LAY-IN SUPPLY DIFFUSER
-  2' x 2' LAY-IN RETURN GRILLE
-  FLEX DUCT
-  THERMOSTAT +48" A.F.F. TO TOP OF CONTROLS




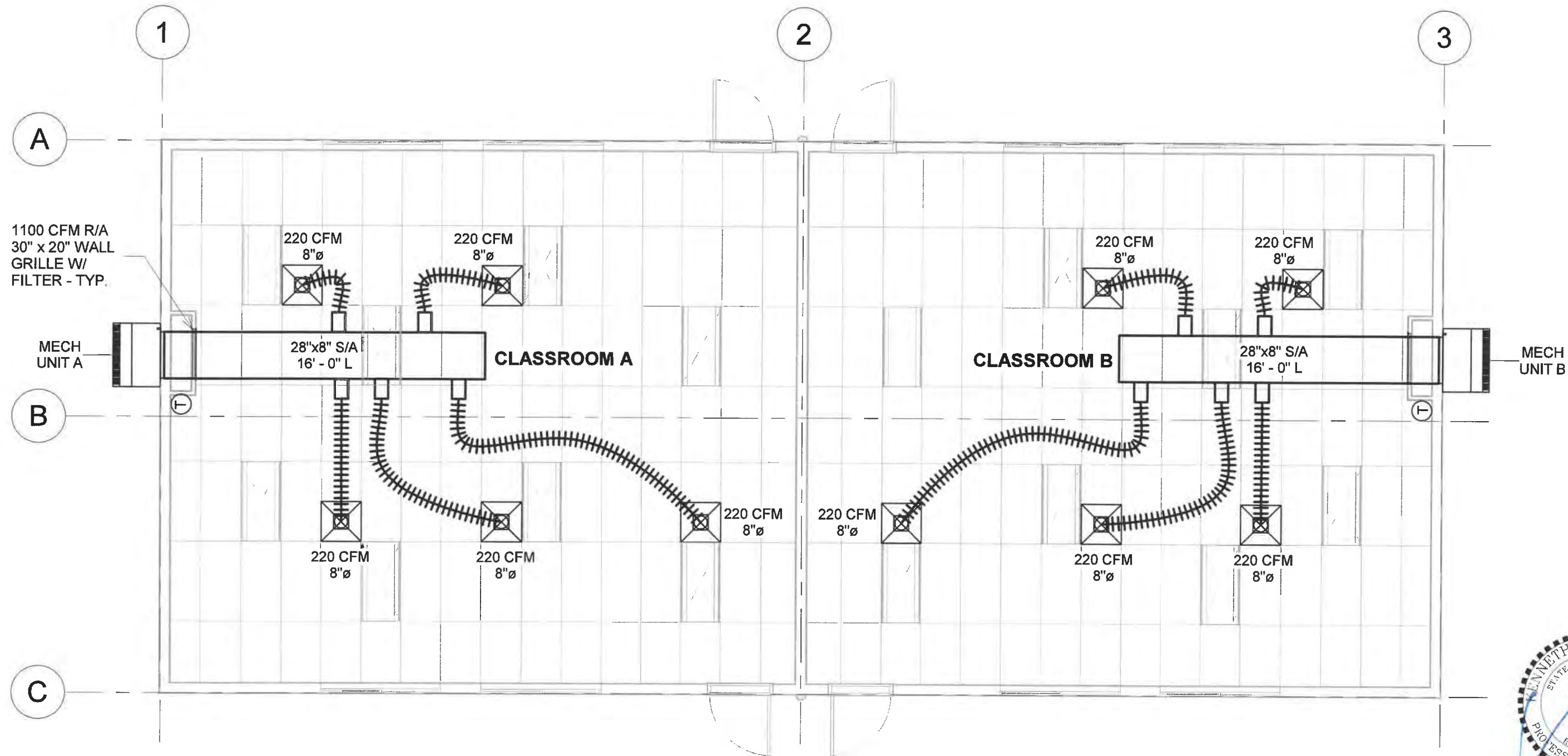
1 DUCT SUPPORT
1" = 1'-0"

OUTSIDE AIR CALCULATION

MECHANICAL UNIT A :			
CLASSROOM	(29 OCC)(10 CFM)	=	290
AREA FACTOR	<u>(830 SF)(.12 CFM)</u>	=	99
	TOTAL	=	389 CFM
MINIMUM OUTSIDE AIR FOR UNOCCUPIED BUILDING			= 99 CFM
MECHANICAL UNIT B :			
CLASSROOM	(29 OCC)(10 CFM)	=	290
AREA FACTOR	<u>(829 SF)(.12 CFM)</u>	=	99
	TOTAL	=	389 CFM
MINIMUM OUTSIDE AIR FOR UNOCCUPIED BUILDING			= 99 CFM



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



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