

ENERGY DESIGN CRITERIA:

NOTE: UNLESS OTHERWISE NOTED, ALL CODE REFERENCES BELOW ARE FROM THE 2015 IECC

CLIMATE ZONES: 4A AS SHOWN IN TABLE 301.1
FOR BUILDINGS WITH OVERALL WINDOWS AND GLAZED DOOR OPENINGS
TOTALING 10% OR LESS OF THE GROSS ABOVE-GRADE WALL AREA.

HEATING DEGREE DAYS: 4964 COOLING DEGREE DAYS: 1565

R-VALUES PROVIDED ARE AS REQUIRED TO PASS COMCHECK ENERGY COMPLIANCE SOFTWARE FOR THE 2015 IECC:
ROOF: ALL WOOD JOIST / TRUSS: R-30
WALL: WOOD FRAMED: R-19
FLOOR: ALL WOOD JOIST / TRUSS: R-30

U-FACTOR FOR WINDOWS: DUAL PANE/ LOW-E GLASS = 0.49
SHGC FOR WINDOWS: DUAL PANE/ LOW-E GLASS = 0.25
U-FACTOR FOR DOORS: STEEL DOOR = 0.20

LIGHTING CONTROLS: OCCUPANT SENSOR CONTROLS FOR INTERIOR LIGHTING.
PHOTOCELL CONTROLS FOR EXTERIOR LIGHTING

GENERAL LIGHTING: LED LIGHT WITH 4800 LUMEN LIGHT MODULE

EXTERIOR LIGHTING: WALL MOUNTED LED LIGHT MODULE ON PHOTOCELL

HVAC EFFICIENCY: WALL HUNG ELECTRIC HVAC UNITS: MIN. 9.0 EER

SYSTEM CONTROLS: PROGRAMMABLE THERMOSTAT WITH OCCUPANT OVERRIDE PER 503.2.4

OUTDOOR AIR VENTILATION RATE OF: 230.2 CFM PER EQUATION 4-1 AND TABLE 403.3.1.1 OF THE 2015 IMC

DUCT INSULATION: WHERE DUCTING IS USED, DUCTS SHALL BE SEPARATED FROM THE
BUILDING EXTERIOR BY A MINIMUM OF R-8 INSULATION.
(NOTE: DUCTING USED BY PALOMAR HAS A MINIMUM R-VALUE OF 5.6, AND
IS CONTAINED WITHIN THE BUILDING ENVELOPE.)

DUCT SEALING: DUCTS ARE TO BE SEALED IN ACCORDANCE WITH 503.2.7

ROOF: PAINTED METAL, ROOF SLOPE MUST EXCEED 2:12.

NOTES:

DATA PLATE(S) TO BE INSTALLED ON THE COVER OF THE ELECTRICAL DISTRIBUTION PANEL AS NOTED ON SHEET A-2.

DECALS TO BE INSTALLED ON THE REAR END, ON THE LOWER LEFT-HAND CORNER OF MODULES WITH METAL SIDING.
BUILDINGS WITH SIDINGS WHICH ARE TO BE PAINTED AS A PART OF ROUTINE MAINTENANCE, THE DECALS ARE TO BE
LOCATED ON THE REAR END WALL OF THE MODULE, NEAR THE MATELINE, ABOVE THE SUSPENDED CEILING TILE.
BUILDING WITH PAINTABLE SIDINGS AND HARD CEILINGS ARE TO HAVE THE DECALS LOCATED AS NOTED ON A-2.



PFS Corporation

Approval Limited to Factory-Built Portion Only

State: Missouri

Signature:

Mark Anderson

Title: Staff Plan Reviewer

Date: 06/23/2020

SPECIAL CONDITIONS

AND / OR LIMITATIONS:

NOTE:
MATERIALS WHICH EQUAL OR EXCEED THOSE SPECIFIED
MAY BE SUBSTITUTED.

NOTE:
BUILDING IS TO BE LOCATED A MINIMUM OF 10 FT.
FROM PROPERTY LINE OR ASSUMED PROPERTY LINE.

PORTABLE FIRE EXTINGUISHERS TO BE PROVIDED AND INSTALLED
BY OWNER

NOTE:
ACCESSIBLE DRINKING FOUNTAIN WILL BE PROVIDED ON SITE
BY OWNER.

NOTE:
SERVICE SINK TO BE PROVIDED IN ADJACENT BLDG.

NOTE:
BUILDING MUST BE LOCATED WITH IN 500 FT. OF AN EXISTING
BUILDING PROVIDING TOILET FACILITIES CAPABLE OF SERVICING
THE COMBINED OCCUPANT LOAD OF THE EXISTING BUILDING(S)
IN ADDITION TO THIS BUILDING.

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ACCESSIBILITY REQUIREMENTS:

NOTE:
HANDICAP ACCESSIBLE RAMP TO BE INSTALLED
BY OTHERS IN ACCORDANCE WITH THE A.D.A.
GUIDELINES.

DESIGN CRITERIA:

CODES: 2015 IBC
2015 IPC
2015 IMC
2014 NEC

2015 IECC
ANSI A 117.1 - 2009



By Yuri at 4:19:43 PM, 6/11/2020

OCCUPANCY CLASSIFICATION: E
OCCUPANCY CATEGORY: II
CONSTRUCTION TYPE: V-B
APPLIANCE FUEL TYPE: NONE

DESIGN LOADS:

ROOF LIVE LOAD: 20 PSF
FLOOR LIVE LOAD: 40 PSF
CONCENTRATED FLOOR LOAD: 1000 LBS

GROUND SNOW LOAD: 20 PSF
ROOF SNOW LOAD: 20 PSF
WIND SPEED Vult: 115 MPH
WIND SPEED asd: 89
EXPOSURE: B
SEISMIC DESIGN CATEGORY: B
BUILDING AREA: 1515 S.F.
OCCUPANT LOAD: 70
OCCUPANT AGE GROUP: ELEMENTARY 6-11 YEARS

DRAWING INDEX: SHEET

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DRY CLASSROOM BUILDING
S/N: 2279-2280

02/25/2021

MODULAR STRUCTURE CONSULTANTS LLC
TX. REG. # F-15892
9720 COIT RD. STE. 220-150
PLANO, TX. 75025-5833
TEL. (469) 896-5373

PALOMAR
MODULAR BUILDINGS LLC
505 NORTH I-35 E DESOTO, TX.
725115 Ph: 469-727-0727
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No.	DESCRIPTION	BY	Date

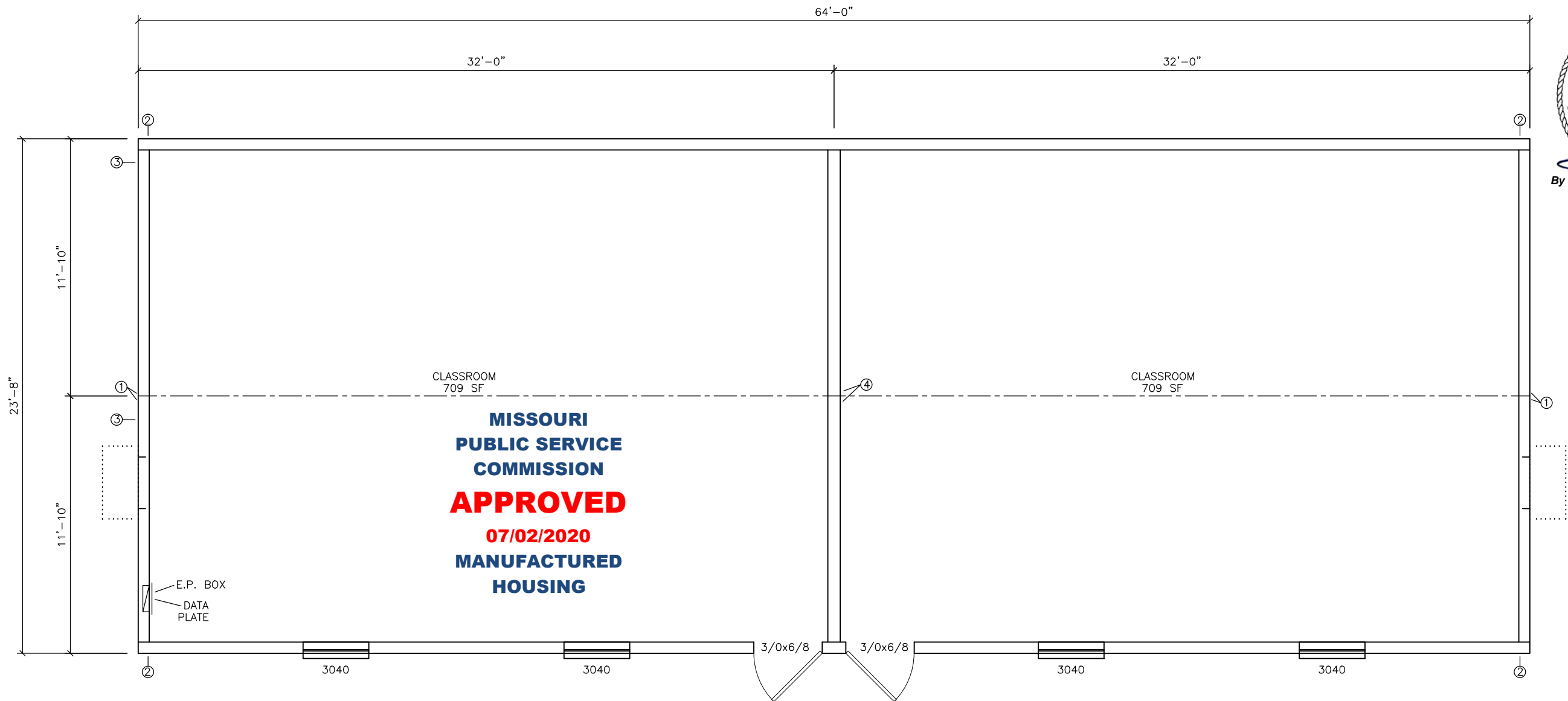
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SCALE:	N.T.S.
PLOT SCALE:	N.T.S.
DRAWN BY:	NM
CHECK BY:	

COVER SHEET / SPECIFICATIONS DRY CLASSROOM BUILDING LEE'S SUMMIT, MO Dwg No. 2464 Dry Classroom S/N: 2279-2280
--

SHEET No.

A-1

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DOOR LEGEND					
CALLOUT	NOMINAL SIZE	MATERIAL	HARDWARE	GLAZING	NOTES
3/0x6/8	3'-0" x 6'-8"	18ga. STEEL DOOR	PULL / PANIC	6x27	CLOSER, WEATHERSTRIP, DRIP CAP
3/0 V	3'-0" x 6'-8"	PREFIN. SOLID CORE	LEVER / PRIVACY	NONE	
THRESHOLDS AT DOORS NOT TO EXCEED 1/2", AND ARE TO BE BEVELED IF IN EXCESS OF 1/4"					
ALL DOOR HARDWARE TO BE SARGENT					

WINDOW LEGEND							
CALLOUT	NOMINAL SIZE	LIGHT	VENT	MATERIAL	FINISH	STYLE	GLAZING
3040	36" x 48"	10.51	5.25	ALUMINUM	BRONZE	SINGLE HUNG	DUAL / CLEAR / LOW-E

- NOTES:
UNLESS NOTED OTHERWISE, ALL EXTERIOR WALLS ARE TO BE SHEATHED WITH OSB AND USED AS SHEAR WALLS.
- ① - DENOTES 3-EA. 2x6's AND 1-EA. 3" WIDE x 26ga. STRAP AT MATE-LINE FASTENED W/ 11 - 1 1/2" x .140 NAILS EACH END OF EACH STRAP.
- ② - DENOTES 2-EA. 2x4's AND 1-EA. 3" WIDE x 26ga. STRAP AT END OF EACH SIDEWALL FASTENED W/ 11 - 1 1/2" x .140 NAILS EACH END OF EACH STRAP. INSTALL 2x6's IN 2x6 WALLS.
- ③ - DENOTES TDLR LABEL LOCATION
- ④ - DENOTES 4-EA. #2 SYP MIN. 2x6's AND 1-EA. SIMPSON MSTC28 STRAP AT MATE-LINE AT RIDGE BEAM TO COLUMN, FASTENED WITH 18 - 16d SINKERS (0.148" x 3 1/4")

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICE
LEE'S SUMMIT, MISSOURI
02/25/2021

By Yuri at 4:19:46 PM, 6/11/2020

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DATE 6/23/20

PFS CORPORATION

Cottage Grove, WI

1

FLOOR PLAN
SCALE: 1/8" = 1'-0"

No.	DESCRIPTION	BY	DATE

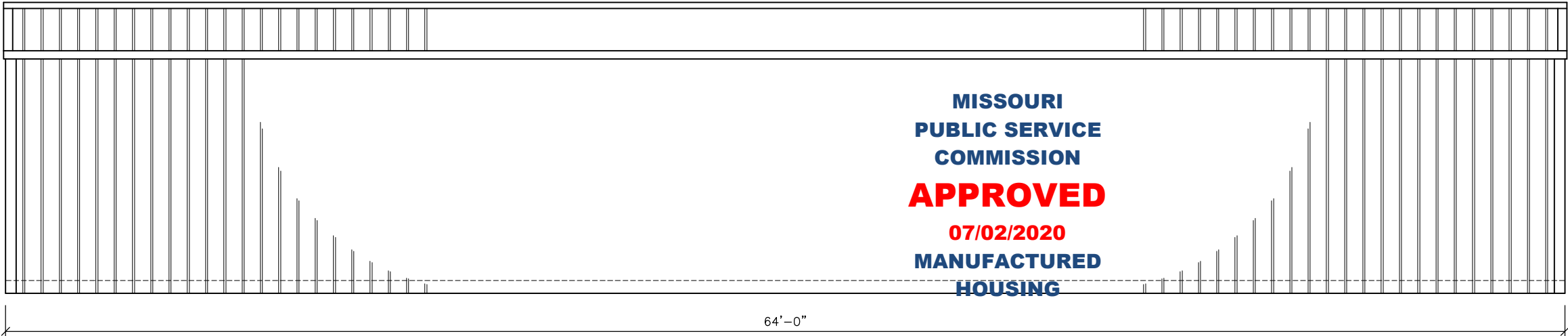
DATE:	6/9/2020
SCALE:	3/16" = 1'-0"
PLOT SCALE:	1:1
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DRY CLASSROOM BUILDING LEE'S SUMMIT, MO FLOOR PLAN 2464 DRY CLASSROOM SERIAL #: 2279-2280

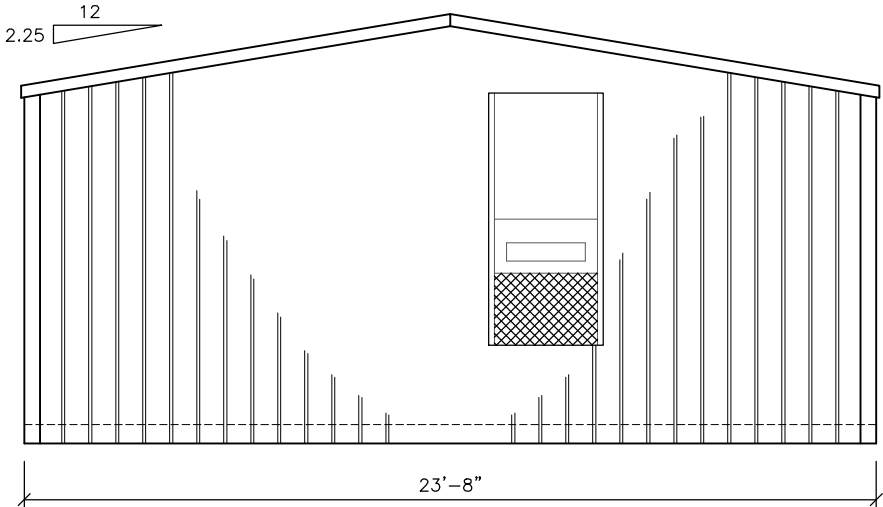
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A-2

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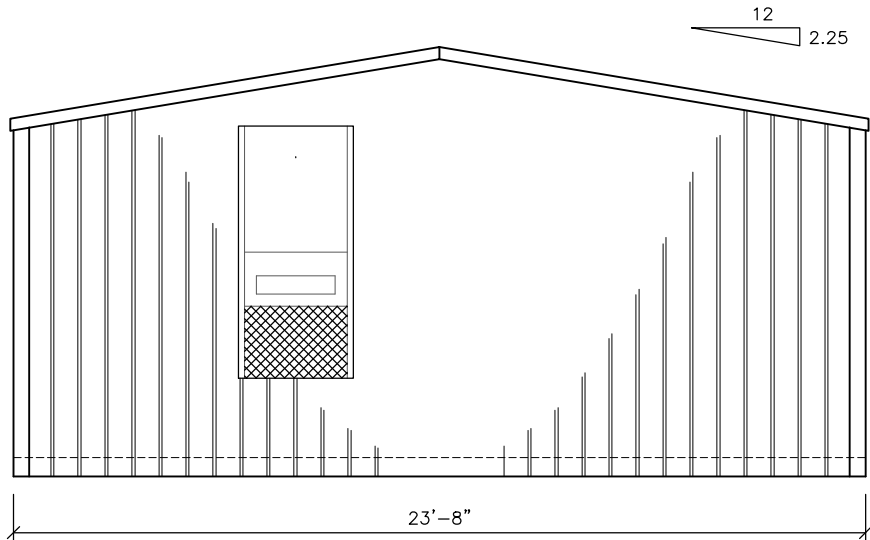


4 SOUTH ELEVATION
SCALE: 3/16" = 1'-0"

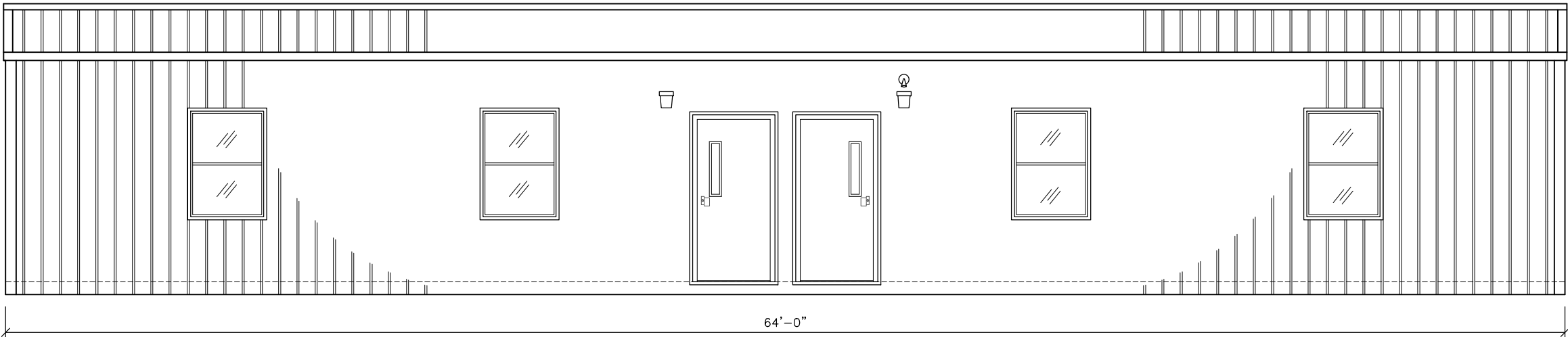


3 EAST ELEVATION
SCALE: 3/16" = 1'-0"

- NOTES:
- 1) STEEL SIDING PANELS ARE MIN. 0.0150" THICK BASE METAL CONFORMING TO TABLE 1405.2 OF THE 2015 IBC.
 - 2) PAINTED METAL ROOFING PANELS CONFORM TO THE REQUIREMENTS OF ASTM A 792 AZ 50 PER TABLE 1507.4.3(1) AND 1507.4.3(2) OF THE 2015 IBC. APPLY LAP SEALANT TO LAPPED SEAMS OF ROOF PANELS. FASTEN PER MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR HIGH WIND AREAS.



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



1 NORTH ELEVATION
SCALE: 3/16" = 1'-0"



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DRY CLASSROOM BUILDING
LEE'S SUMMIT, MO
EXTERIOR ELEVATIONS
2464 DRY CLASSROOM
SERIAL #: 2279-2280

SHEET No.
A-3

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By Yuri at 4:19:50 PM, 6/11/2020

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SCALE:	1/4" = 1'-0"
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DRY CLASSROOM BUILDING
LEE'S SUMMIT, MO
CROSS SECTION
2464 DRY CLASSROOM
SERIAL #: 2279-2280

GENERAL NOTES

- 1 STANDARD PAD ON GRADE, ABS BASE WITH CMU BLOCK

2 M12x11.8 FRAME RAILS CONFORMING TO ASTM A529-50

3 WOVEN POLYETHYLENE BOTTOM BOARD

4 SKIRTING INSTALLED ON SITE AFTER UNIT ASSEMBLY

5 2-2x8 #3 SYP MIN. FLOOR RIM JOISTS

6 R-30 INSULATION IN FLOOR CAVITY (COMPRESSED TO R-25)

7 2x8 # 2 SYP MIN. FLOOR JOISTS AT 16"o.c.

8 3/4" MIN. T&G ADVANTECH DECKING

9 VINYL COMPOSITION FLOOR TILE &/OR COMMERCIAL GRADE CARPET (TO BE INSTALLED BY OWNER)

10 SIDEWALL STRAPPED TO FLOOR WITH 1 1/2" x 30ga GALVANIZED STRAPS AT 48"o.c. FASTENED WITH 6-16ga STAPLES EACH END OF EACH STRAP.

11 2x6 #3 SYP MIN. BOTTOM PLATE

12 R-19 INSULATION IN EXTERIOR WALLS (COMPRESSED TO R-18)

13 2x6 #2 SYP MIN. STUDS AT 16"o.c.
- 14 7/16" RATED SHEATHING OSB UNDER A WEATHER-RESISTIVE BARRIER CONFORMING TO 1404.2 OF THE 2015 IBC, FASTENED WITH 8d NAILS AT 6"o.c. AT EDGES AND 12"o.c. IN THE FIELD

15 STEEL SIDING PANELS CONFORMING TO TABLE 1405.2 OF THE 2015 IBC

16 R-11 INSULATION IN INTERIOR WALLS

17 2x6 #2 SYP MIN. AT 16"o.c. INTERIOR WALLS

18 2-2x6 #3 SYP MIN. EXTERIOR WALL TOP PLATES

19 VINYL CLAD 5/8" TYPE 'X' GYPSUM WALLBOARD.

20 SUSPENDED GRID ACOUSTIC CEILING

21 POLY NETTING ON BOTTOM OF RAFTERS

22 NOT USED

23 ROOF STRAPPED TO SIDEWALL WITH 1 1/2" x 30ga GALV. STRAPS AT 48"o.c. FASTENED WITH 6-16ga STAPLES EACH END OF EACH STRAP

24 2x10 #2 SYP MIN. ROOF RIM JOIST

25 R-30 INSULATION IN RAFTER CAVITY
- 26 2x10 #2 SYP MIN RAFTERS AT 24"o.c.

27 FOUR LAYER SOLID PLYWOOD RIDGE BEAM, EACH LAYER OF 3/4", 5-LAYER, 5-PLY GROUP 1 SPECIES PLYWOOD. BEAM IS CONSTRUCTED PER THE APA "DESIGN AND FABRICATION OF ALL-PLYWOOD BEAMS" SUPPLEMENT 5

28 RAFTERS STRAPPED TO RIDGE BEAM WITH 1 1/2" x 30ga STRAP FASTENED WITH 6-16ga STAPLES EACH END OF EACH STRAP.

29 7/16" SHEATHING RATED OSB, FASTENED W/ 8d NAILS AT 4"o.c. EDGES AND 8"o.c. FIELD, OVER 15# FELT PAPER

30 GALVALUME ROOFING PANELS CONFORMING TO ASTM A 792 AZ50 PER TABLES 1507.4.3(1) OF THE 2015 IBC

31 2x4 LEDGER FASTENED TO RIDGE BEAM W/3-16d NAILS EACH RAFTER LOCATION OR SIMPSON MMLU-26 JOIST HANGER FASTENED WITH 4-1 1/2" x 10d NAILS TO BEAM AND 2-1 1/2" x 8d NAILS TO RAFTER

32 UNITS FASTENED TOGETHER AT FLOOR AND RIDGE BEAM WITH 3/8" x 6" LAG BOLTS AT 32"o.c. STAGGERED

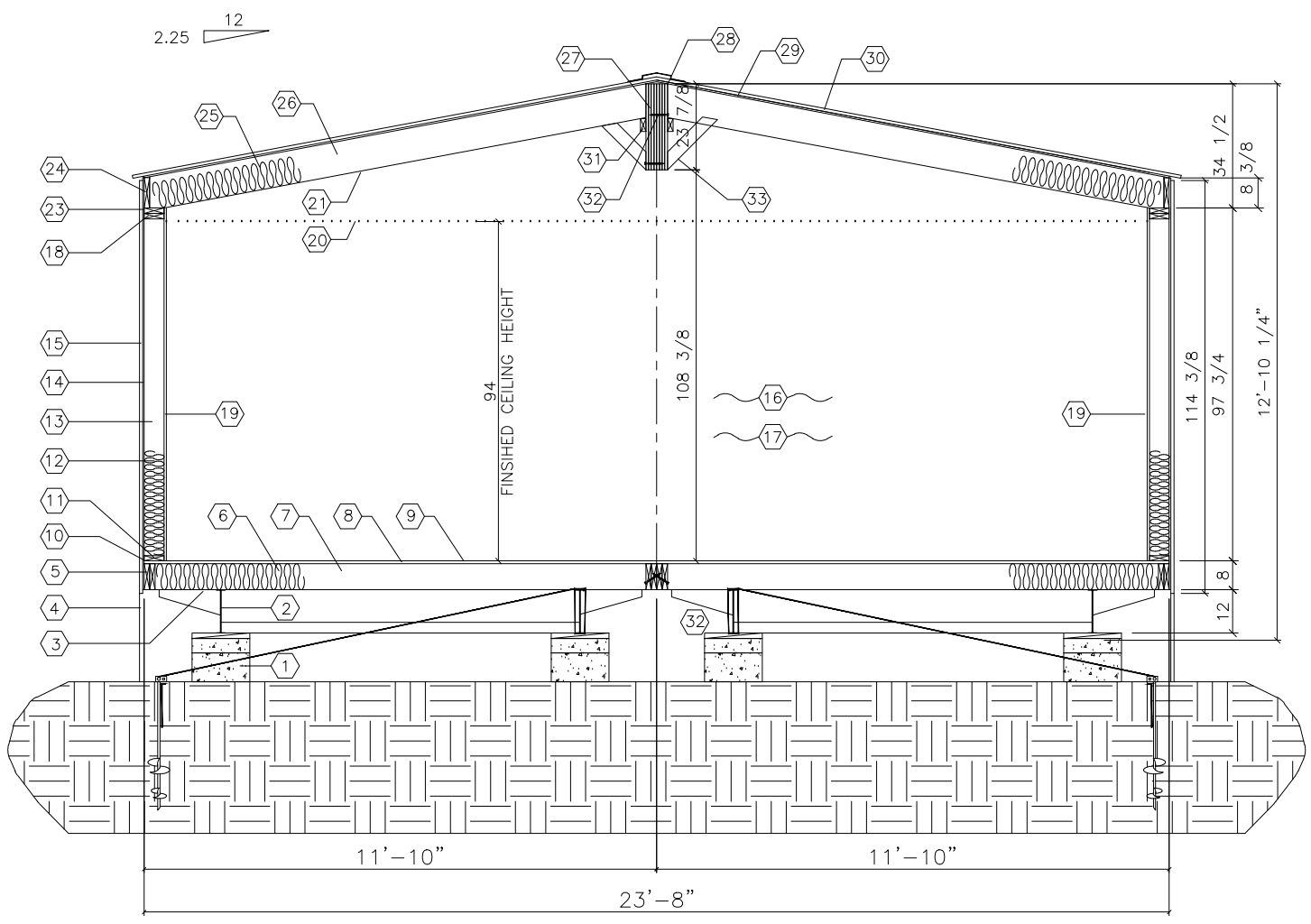
33 INSTALL BRACING WITHIN 48" OF INTERIOR COLUMN AND 12'-0"o.c. MAX. THROUGHOUT OPEN SPANS

- NOTES:
- CRAWL SPACE TO BE VENTILATED IN ACCORDANCE WITH 2015 INTERNATIONAL BUILDING CODE SECT. 1203.3.2. INSTALL SO AS TO PROVIDE CROSS-VENTILATION OF CRAWL SPACE. INSTALL MIN. 18" x 24" ACCESS PANEL IN SKIRTING.
 - BLOCK HEIGHTS SHOWN ARE TYPICAL. ANY BLOCK STACKS, OTHER THAN AT MATELINES, REQUIRING MORE THAN THREE 8" x 8" x 16" BLOCKS MUST BE DOUBLED. THIS DOES NOT CHANGE ANCHORING LOCATIONS OR QUANTITIES.
 - FRONT CROSS-MEMBER IS FULL DEPTH I-BEAM (SAME AS CHASSIS) HITCH / COUPLER IS VENTURE OR EQUIVALENT 30,000# MIN. RATED TIRES ARE 8 x 14.5, 8-ply, 2805# MIN LOAD RATING. FRAME PAINT IS EMULSION BASE PAINT. OUTRIGGERS AND U-CHANNEL CROSS-MEMBERS ARE 14 ga. MIN. OUTRIGGER SIZES: 11'-10" FLOOR - 7" x 16" OUTRIGGER
 - METAL ROOF AND WALL PANELS TO BE FASTENED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR THE APPROPRIATE WIND SPEED FOR THE BUILDINGS INSTALLATION LOCATION (SEE SHEET A-1).

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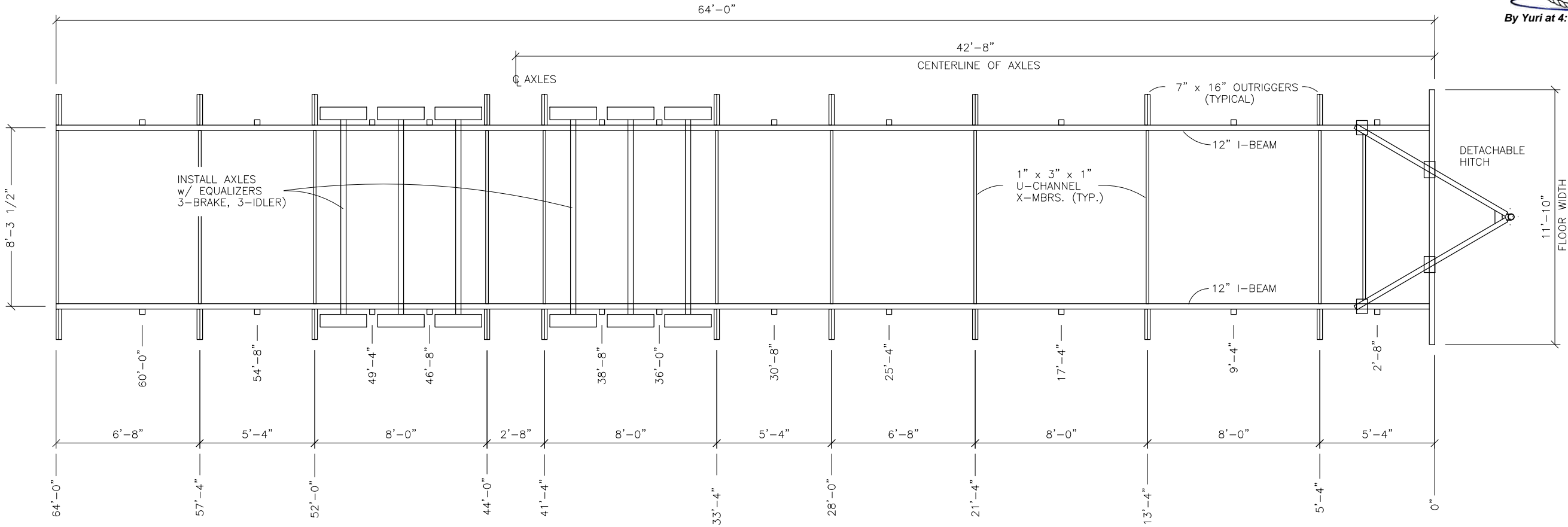
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DATE 6/23/20
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Cottage Grove, WI

PRODUCTION HEIGHT: 13'-7"
TRANSPORTATION HEIGHT: 14'-10"



1 **CROSS SECTION**
SCALE: 1/4" = 1'-0"

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NOTES:
FRONT CROSS-MEMBER IS FULL DEPTH I-BEAM (SAME AS CHASSIS)
HITCH / COUPLER IS VENTURE OR EQUIVALENT 30,000# MIN. RATED
TIRES ARE 8 x 14.5, 8-ply, 2805# MIN LOAD RATING
FRAME PAINT IS EMULSION BASE PAINT
OUTRIGGERS AND U-CHANNEL CROSS-MEMBERS ARE 14 ga. MIN.



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1 CHASSIS LAYOUT
SCALE: 3/16" = 1'-0"



By Yuri at 4:19:56 PM, 6/11/2020

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02/25/2021

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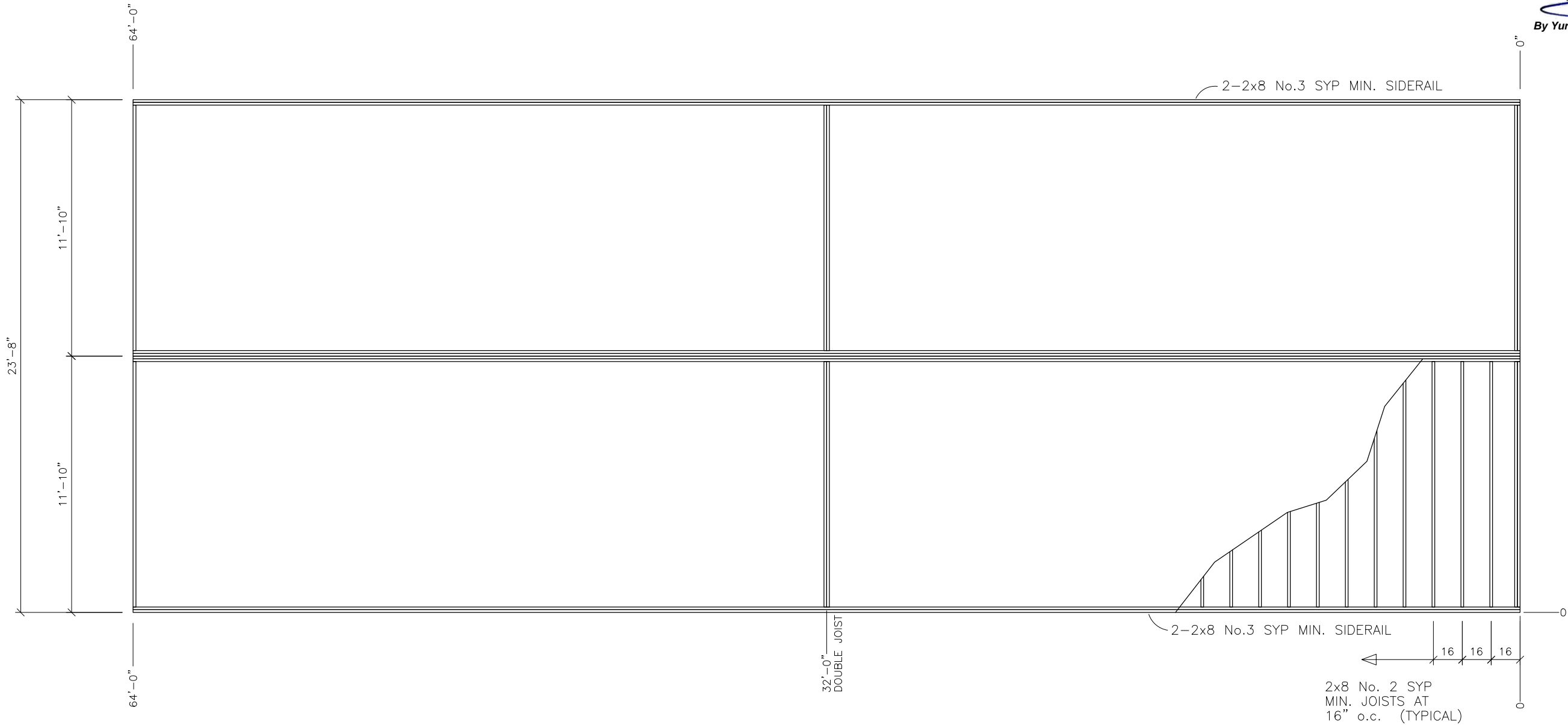
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DATE:	6/9/2020
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DRY CLASSROOM BUILDING
LEE'S SUMMIT, MO
CHASSIS LAYOUT
2464 DRY CLASSROOM
SERIAL #: 2279-2280

SHEET No.
S-2

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1 FLOOR FRAMING LAYOUT
SCALE: 3/16" = 1'-0"



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PLOT SCALE:	1:1
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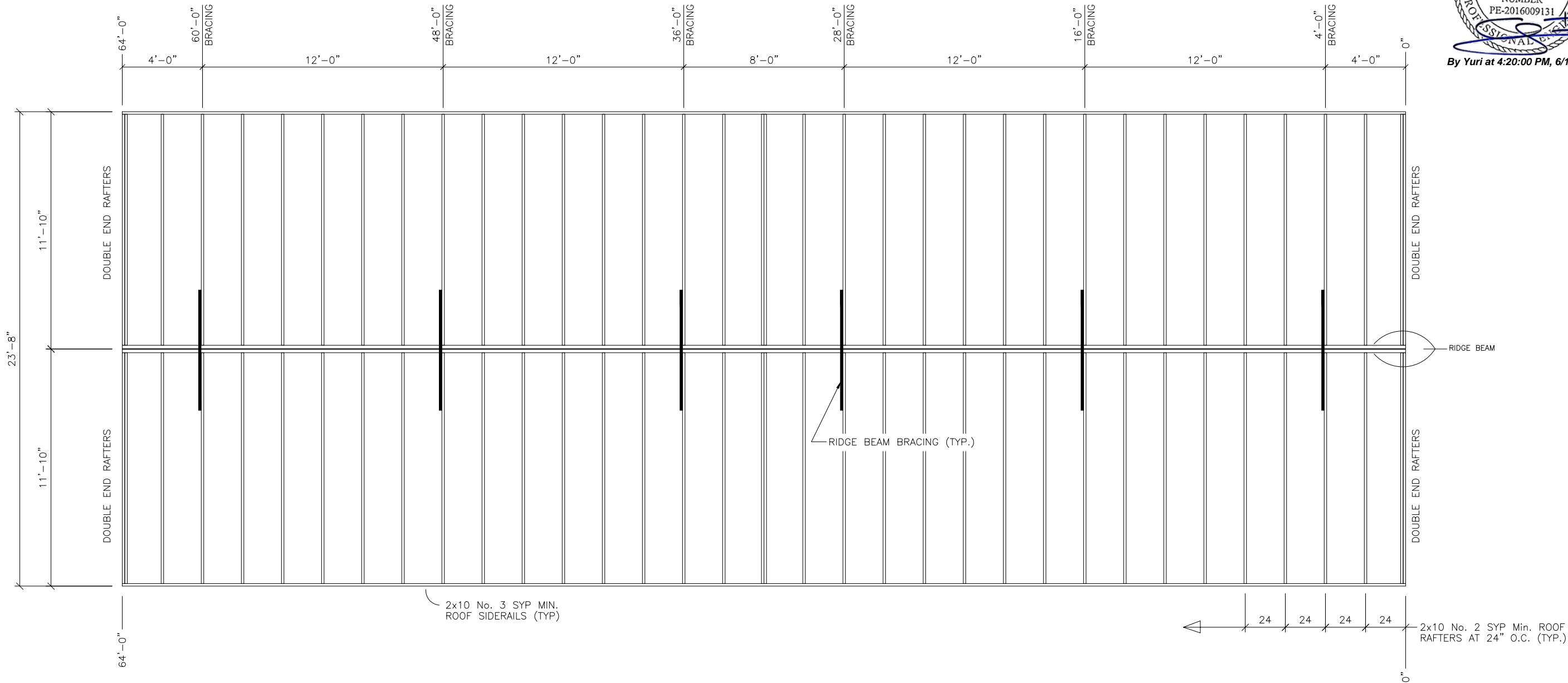
DRY CLASSROOM BUILDING
LEE'S SUMMIT, MO
FLOOR FRAMING LAYOUT
2464 DRY CLASSROOM
SERIAL #: 2279-2280

SHEET No.
S-3

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By Yuri at 4:20:00 PM, 6/11/2020

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DATE 6/23/20
PFS CORPORATION
Cottage Grove, WI

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1 ROOF FRAMING LAYOUT
SCALE: 1/8" = 1'-0"

No.	DESCRIPTION	BY	DATE

DATE:	6/9/2020
SCALE:	3/16" = 1'-0"
PLOT SCALE:	1:1
DRAWN BY:	NM
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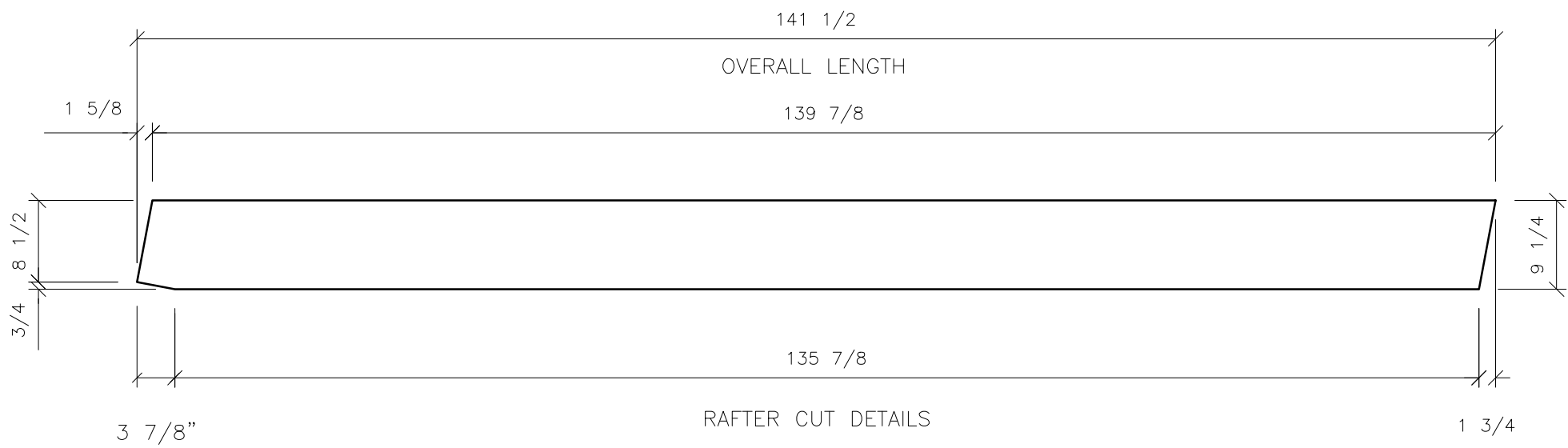
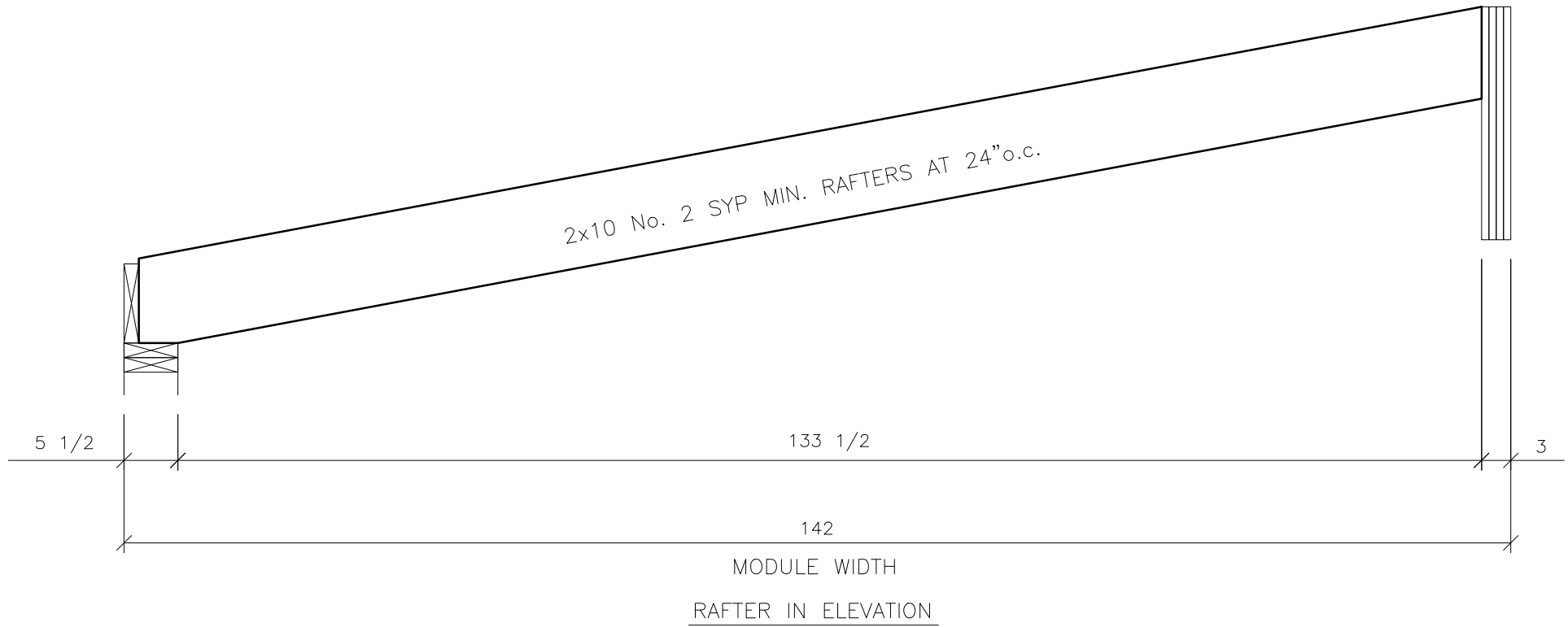
DRY CLASSROOM BUILDING LEE'S SUMMIT, MO ROOF FRAMING LAYOUT 2464 DRY CLASSROOM SERIAL #: 2279-2280
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SHEET No.
S-4

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02/25/2021

By Yuri at 4:20:01 PM, 6/11/2020

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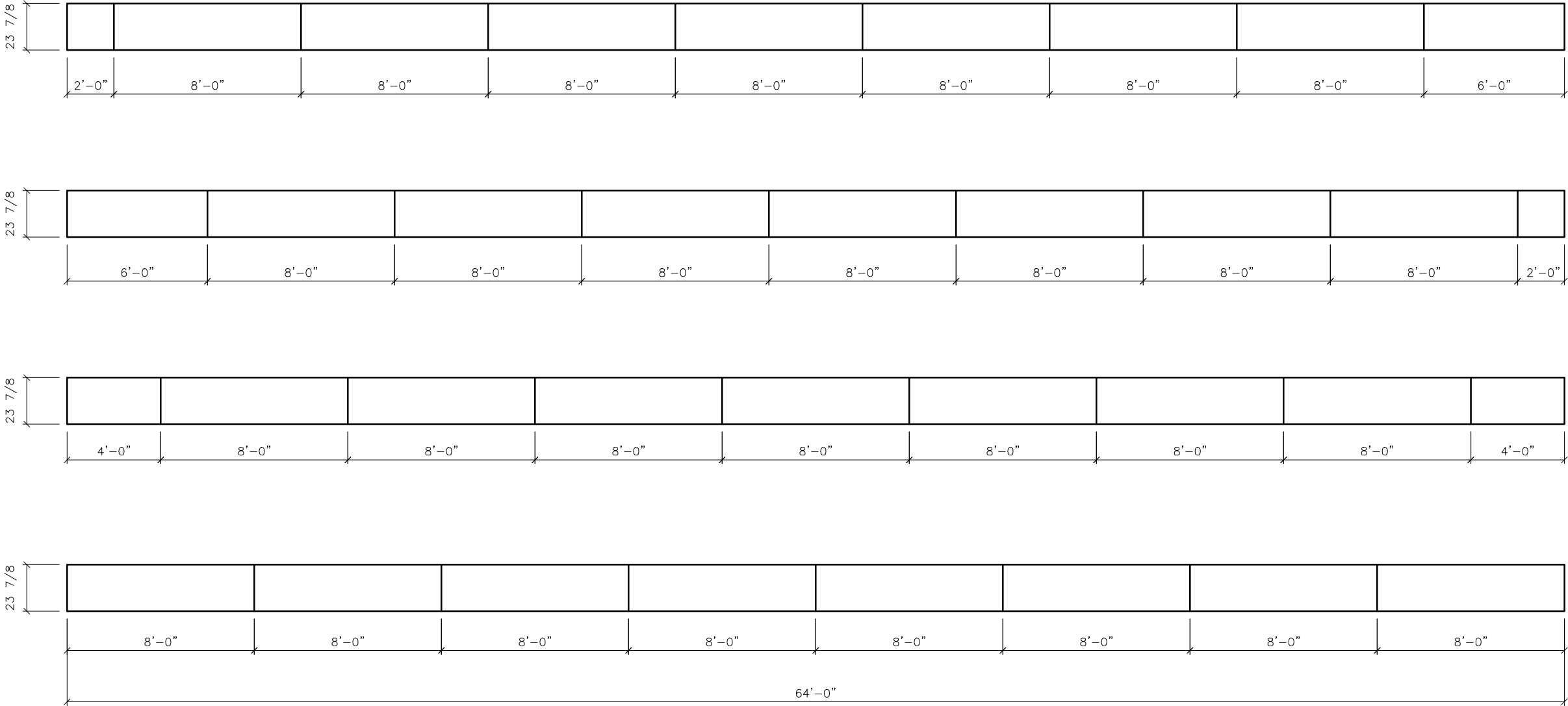
No.	DESCRIPTION	BY	DATE

DATE:	6/9/2020
SCALE:	3/4" = 1'-0"
PLOT SCALE:	1:1
DRAWN BY:	SGD
CHECKED BY:	

DRY CLASSROOM BUILDING
LEE'S SUMMIT, MO
RAFTER DETAILS
2464 DRY CLASSROOM
SERIAL #: 2279-2280

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- NOTES:
1. RIDGE BEAM CONSTRUCTION IS SAME FOR BOTH HALVES (MIRRORED)
 2. RIDGE BEAM CONSTRUCTION SHALL BE IN ACCORDANCE WITH APA PLYWOOD DESIGN SPECIFICATION, SUPPLEMENT 5, AND SECTION 9 OF THE DESIGN MANUAL, 2008 EDITION.
 3. RIDGE BEAM IS CONSTRUCTED WITH 3/4", 5-PLY, 5-LAYER GROUP 1 SPECIES PLYWOOD.



By Yuri at 4:20:03 PM, 6/11/2020

4th LAYER

3rd LAYER

2nd LAYER

1st LAYER

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TX. REGISTRATION # F-15892

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505 N. I-35E
DESOTO, LEE'S SUMMIT, MO 75115
PH: 469-727-0727

No.	DESCRIPTION	BY	DATE

DATE:	6/9/2020
SCALE:	3/16" = 1'-0"
PLOT SCALE:	1:1
DRAWN BY:	SGD
CHECKED BY:	

DRY CLASSROOM BUILDING
LEE'S SUMMIT, MO
RIDGE BEAM CONSTRUCTION
2464 DRY CLASSROOM
SERIAL #: 2279-2280

SHEET No.

S-6

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICE

LEE'S SUMMIT, MISSOURI

02/26/2021



YURIANTO
YURIANTO
NUMBER
PE-2016009131

By Yuri at 4:20:05 PM, 6/11/2020

(Structural Aspects Only)

MODULAR STRUCTURAL CONSULTANTS LLC
9720 COIT RD. STE. 220-503
PLANO, LEE'S SUMMIT, MO 75025
PHONE: 972-896-5373
TX. REGISTRATION # F-15892

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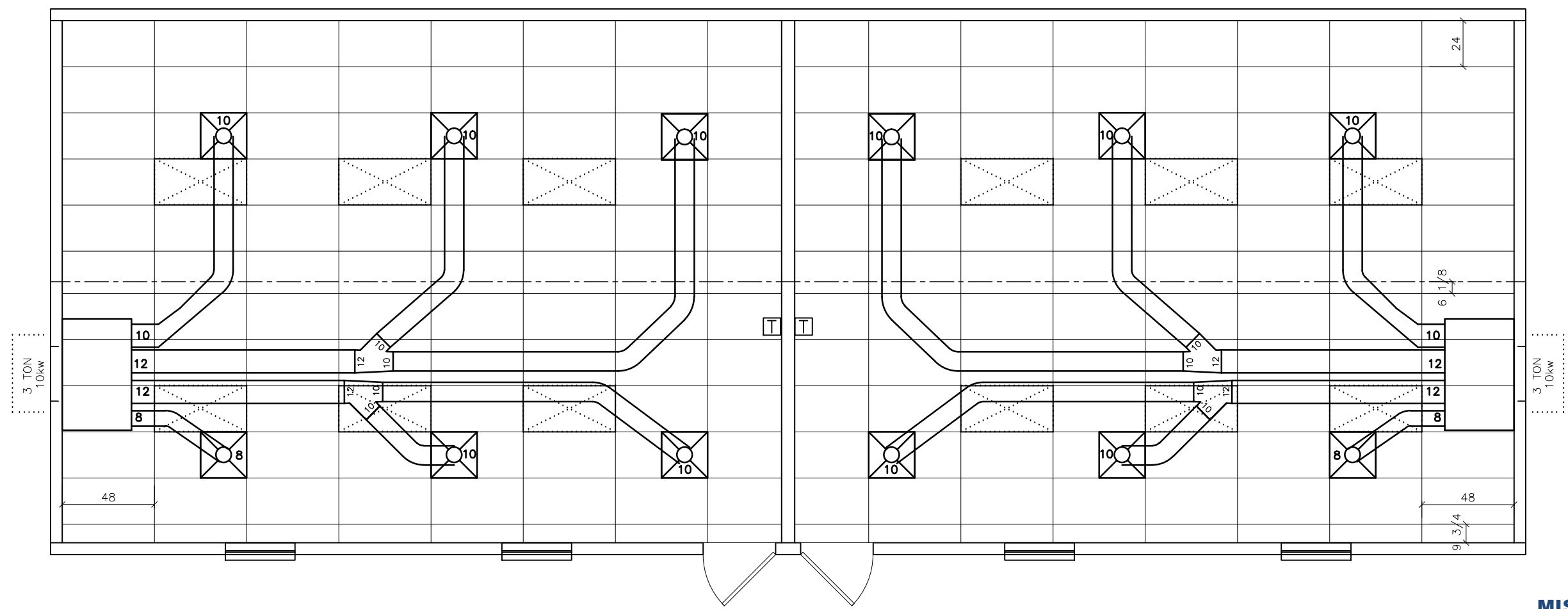
No.	DESCRIPTION	BY	DATE
		RR	2/7

DATE:	6/9/2020
SCALE:	1/8" = 1'-0"
PLOT SCALE:	1:1
DRAWN BY:	NM
CHECKED BY:	


DRY CLASSROOM BUILDING
LEE'S SUMMIT, MO
CEILING GRID / HVAC LAYOUT
2464 DRY CLASSROOM
SERIAL #: 2279-2280


SHEET No.


M-1



SYMBOL LEGEND

 2' x 4' LED LIGHT
(44 WATTS)

 24" x 24" SUPPLY
DIFFUSER

 PROGAMMMABLE THERMOSTAT

NOTE: DUCTING IS CLASS 1, U.L. 181 LISTED FLEXIBLE FIBERGLASS DUCTING.

NOTE: RETURN AIR IS DIRECT TO THE UNIT THROUGH THE WALL.

 **APPROVED**

DATE 6/23/20

PFS CORPORATION

Cottage Grove, WI

MISSOURI
PUBLIC SERVICE
COMMISSION

APPROVED

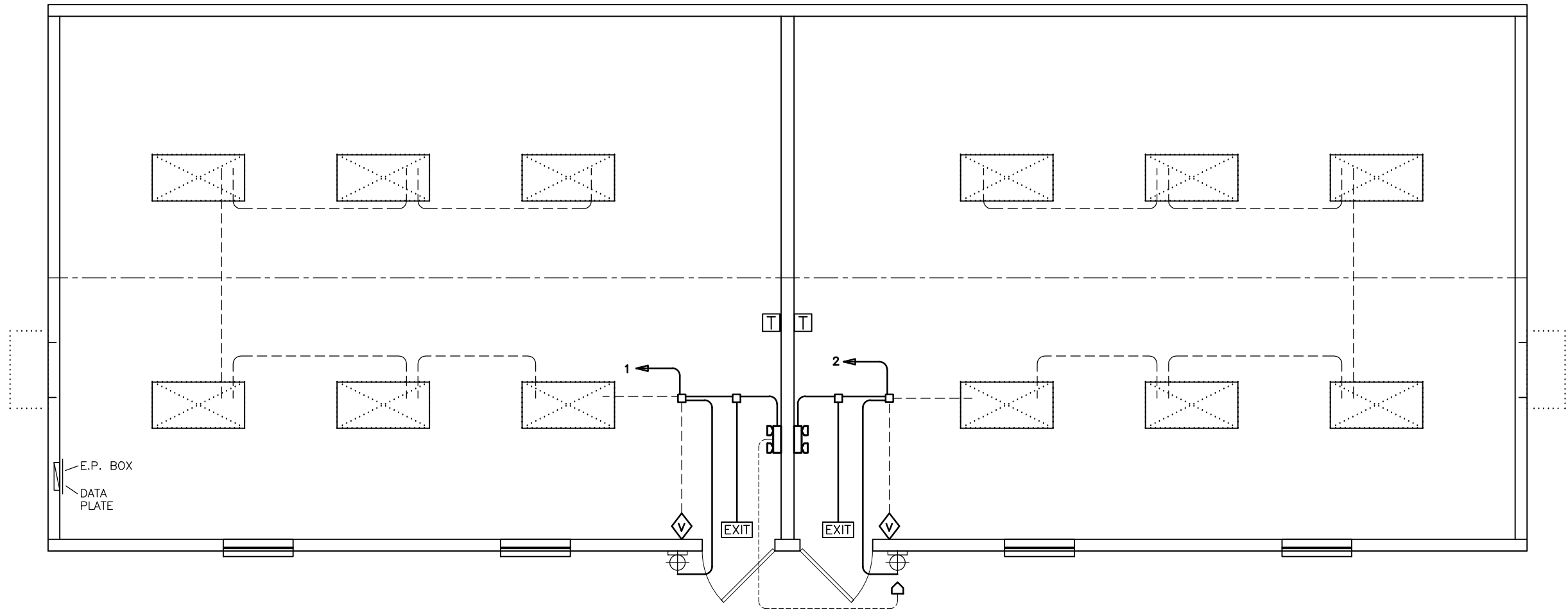
07/02/2020

**MANUFACTURED
HOUSING**

P:\PALOMAR\Drawings\2279-80 - Lees Summit\2464 DRY CLASSROOM 2.dwg, 6/11/2020 3:51:01 PM, NMiller

P:\PALOMAR\Drawings\2279-80 - Lees Summit\2464 DRY CLASSROOM 2.dwg, 6/11/2020 3:51:06 PM, NMiller

MISSOURI
PUBLIC SERVICE
COMMISSION
APPROVED
07/02/2020
MANUFACTURED
HOUSING



ELECTRICAL SYMBOL LEGEND			
	48" x 24" LED LIGHT (44w)		RECEPTACLE
	VANDAL-PROOF EXTERIOR LED LIGHT ON PHOTOCELL (22w)		GFI RECEPTACLE
			TAMPER-RESISTANT RECEPTACLE
			WEATHER-PROOF GFI RECEPTACLE
			7-DAY PROGRAMMABLE THERMOSTAT w/ OCCUPANT OVERRIDE
			OCCUPANCY SENSOR SWITCH IPV15
			PHONE / DATA STUB-IN
			JUNCTION BOX
			ELECTRICAL DIST. PANEL
			LED EXIT LIGHT w/ BATTERY BACK-UP
			EMERGENCY LIGHT w/ BATTERY BACK-UP & REMOTE HEAD
			EXTERIOR REMOTE HEAD



1 LIGHTING SCHEMATIC
SCALE: 1/8" = 1'-0"

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICE

LEE'S SUMMIT, MISSOURI

02/26/2021

By Yuri at 4:20:06 PM, 6/11/2020

(Structural Aspects Only)

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PH: 469-727-0727

No.	DESCRIPTION	BY	DATE

DATE:	6/9/2020
SCALE:	1/8" = 1'-0"
PLOT SCALE:	1:1
DRAWN BY:	NM
CHECKED BY:	

DRY CLASSROOM BUILDING
LEE'S SUMMIT, MO
LIGHTING SCHEMATIC
2464 DRY CLASSROOM
SERIAL #: 2279-2280

SHEET No.
E-1

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICE

LEE'S SUMMIT, MISSOURI

02/26/2021



YURIANTO
YURIANTO
NUMBER
PE-2016009131

By Yuri at 4:20:06 PM, 6/11/2020

(Structural Aspects Only)

MODULAR STRUCTURE CONSULTANTS LLC
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PLANO, LEE'S SUMMIT, MO 75085
PHONE: 972-896-5373
TX. REGISTRATION # F-15892

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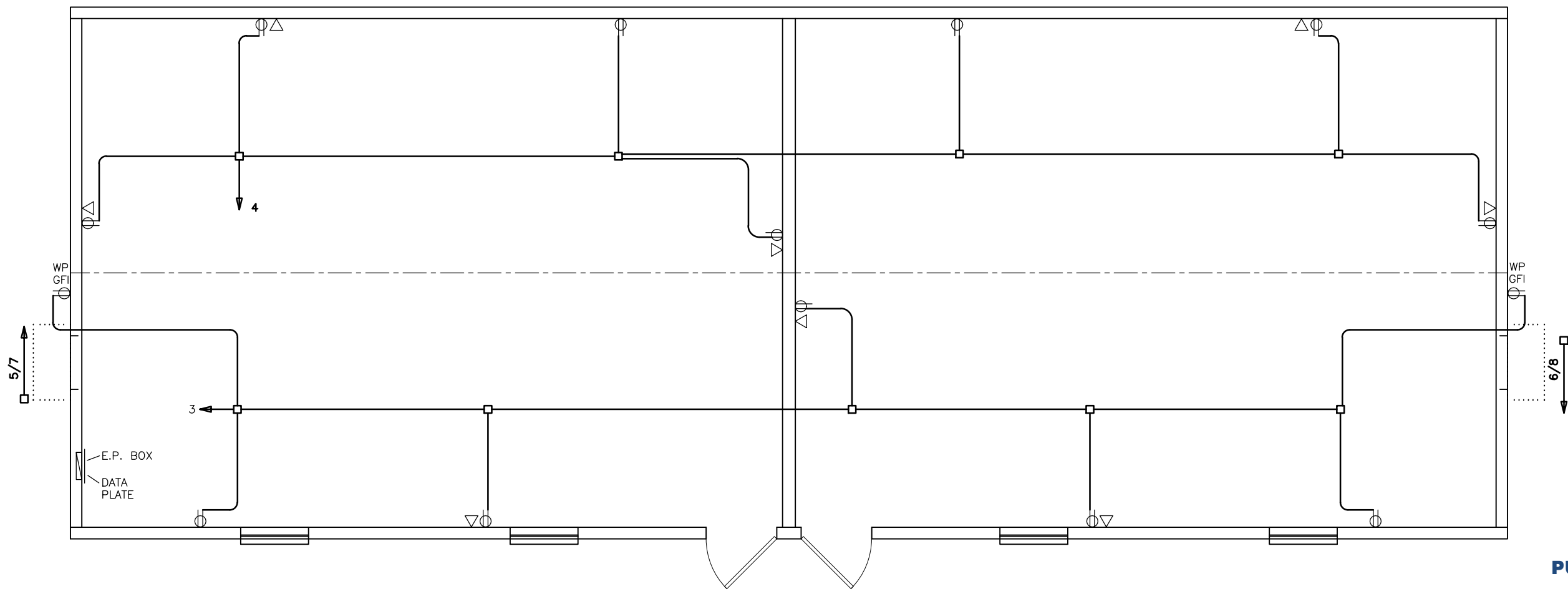
No.	DESCRIPTION	BY	DATE

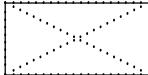













DATE:	6/9/2020
SCALE:	1/8" = 1'-0"
PLOT SCALE:	1:1
DRAWN BY:	NM
CHECKED BY:	

DRY CLASSROOM BUILDING
LEE'S SUMMIT, MO
POWER DISTRIBUTION SCHEMATIC
2464 DRY CLASSROOM
SERIAL #: 2279-2280

SHEET No.

E-2



ELECTRICAL SYMBOL LEGEND			
	48" x 24" LED LIGHT (44w)		RECEPTACLE
	VANDAL-PROOF EXTERIOR LED LIGHT ON PHOTOCELL (22w)		GFI RECEPTACLE
			TAMPER-RESISTANT RECEPTACLE
			WEATHER-PROOF GFI RECEPTACLE
			7-DAY PROGRAMMABLE THERMOSTAT w/ OCCUPANT OVERRIDE
			OCCUPANCY SENSOR SWITCH IPV15
			PHONE / DATA STUB-IN
			JUNCTION BOX
			ELECTRICAL DIST. PANEL
			LED EXIT LIGHT w/ BATTERY BACK-UP
			EMERGENCY LIGHT w/ BATTERY BACK-UP & REMOTE HEAD
			EXTERIOR REMOTE HEAD

NOTE:
BUILDING IS: 120/240v 3-WIRE SINGLE PHASE
ELECTRICAL CONDUIT: ELECTRICAL NON-METALLIC TUBING
ELECTRICAL WIRING: MIN. #12 THHN COPPER WITH GROUND
GROUNDING ON SITE: PER 2014 NEC ARTICLE 250-50

 **APPROVED**

DATE 6/23/20

PFS CORPORATION

Cottage Grove, WI

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**MISSOURI
PUBLIC SERVICE
COMMISSION**

APPROVED

07/02/2020

**MANUFACTURED
HOUSING**

MIN WIRE SIZE		150 AMP SINGLE PHASE MAIN BREAKER				PANEL 'A'	MIN WIRE SIZE
12	LIGHTS: LEFT CLASSROOM	20	1	2	20	LIGHTS: RIGHT CLASSROOM	12
12	RECEPTS: LEFT CLASSROOM, EXTERIOR	20	3	4	20	RECEPTS: RIGHT CLASSROOM, EXTERIOR	12
6	HVAC UNIT: LEFT CLASSROOM 3-TON / 10 kw	60 2P	5	6	60 2P	HVAC UNIT: RIGHT CLASSROOM 3-TON / 10 kw	6
			7	8			
			9	10	20	FIRE ALARM CONTROL PANEL	12
			11	12			
			13	14			
			15	16			
			17	18			
			19	20			
			21	22			
			23	24			
			25	26			
			27	28			
			29	30			
			31	32			
			33	34			
			35	36			
			37	38			
			39	40			
			41	42			

NOTE:
WHERE LEFT OR RIGHT CLASSROOM IS CALLED OUT, THE CALLOUT IS AS VIEWED FROM THE EXTERIOR OF THE BUILDING
STANDING AT THE EXTERIOR DOORS.

LOAD CALC:		240 v	150 AMP
QTY	ITEM	WATTS	TOTAL
12	LED Troffer	x 44	660 watts
0	Compact Fluorescent	x 26	0 watts
0	Fluorescent 17w 2 Lamp	x 31	0 watts
2	Ext. CFL Light	x 84	210 watts
0	Exhaust Fan 80 cfm	x 84	0 watts
0	Appliance circuit	x 1920	0 watts
14	Recept Duplex	x 180	2520 watts
0	Recept Dedicated	x 1920	0 watts
0	Recepts Computers Ckts.	x 1500	0 watts
0	Recepts Heat Tape	x 1800	0 watts
0	Water Heater (240v)	x 3000	0 watts
0	Water Cooler	x 370	0 watts
0	Res. Microwave	x 1350	0 watts
0	Res. Microwave	x 1350	0 watts
0	Emergency Light	x 14.4	0 watts
2	Emergency Light	x 14.4	29 watts
2	Exit Sign	x 2.8	7 watts
1	Alarm Panel	x 144	180 watts
2	Bard 3Ton / 10kw (240v)	x 13920	27840 watts
	Air Handler 3 Ton / 10kw (240v)	x 12420	0 watts
Total Watts:			31446
Total Amps:			131.02

200

GROUND BAR

WIRE SIZE OF:

Service Conductors: 1/0

Service Ground: 6

NEUTRAL

TOTAL PANEL LOAD:

Total Watts: 31446 watts

Voltage: 240 v

Total Amps: 131.02 amps

Service Conduit Size for:	AWG #3/0	Conductors - 2 Phase and 1 Neutral
IMC, RMC or PVC	1 1/2 Inch	



By Yuri at 4:20:10 PM, 6/11/2020

RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

YURI YURIANTO
MODULAR STRUCTURE
CONSULTANTS LLC
TX. REG. #. F-18899
3720 COIT RD., STE. 220-
PLANO, TX. 75025-5881

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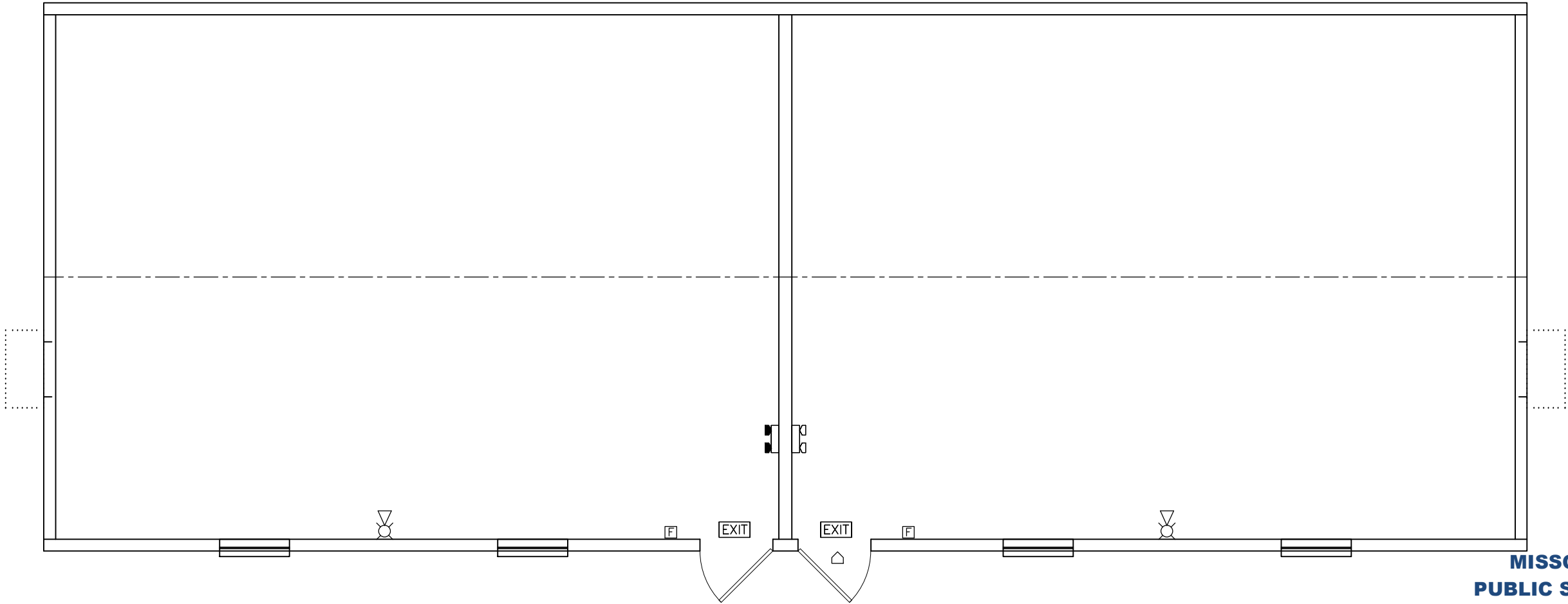
No.	DESCRIPTION	BY	Date

DATE: 6/9/2020
SCALE: N.T.S.
PLOT SCALE: N.T.S.
DRAWN BY: NM
CHECK BY:

ELECTRICAL CALCULATIONS
2464 DRY CLASSROOM BLDG
LEE'S SUMMIT, MO
Dwg. No. 2464 Dry Classroom
S/N: 2279-2280

SHEET No.
E-3

P:\PALOMAR\Drawings\2279-80 - Lees Summit\2464 DRY CLASSROOM 2.dwg, 6/11/2020 3:51:16 PM, NMiller



SYMBOL LEGEND	
	LIGHTED EXIT SIGN WITH BATTERY BACK-UP
	EMERGENCY LIGHT WITH BATTERY BACK-UP
	EMERGENCY LIGHT WITH BATTERY BACK-UP AND REMOTE HEAD
	EMERGENCY LIGHT REMOTE HEAD
	ALARM INITIATION DEVICE (PULL STATION) INSTALLED AT 48" A.F.F. TO TOP OF BOX
	ALARM NOTIFICATION APPLIANCE (HORN/STROBE) INSTALLED AT 80" AFF TO BOTTOM OF BOX
	ALARM NOTIFICATION APPLIANCE (HORN/STROBE) INSTALLED AT 80" AFF TO BOTTOM OF BOX

NOTE: FIRE ALARM APPLIANCES AND WIRING ARE NOT INSTALLED BY PALOMAR. BOXES AND CONDUIT ARE PROVIDED AT THE LOCATIONS SHOWN TO FACILITATE THEIR INSTALLATION BY A LICENSED ALARM INSTALLER.



MISSOURI
PUBLIC SERVICE
COMMISSION
APPROVED
07/02/2020
MANUFACTURED
HOUSING

STATE OF MISSOURI
YURIANTO
YURIANTO
NUMBER
PE-2016009131

By Yuri at 4:20:14 PM, 6/11/2020
(Structural Aspects Only)

02/25/2021

RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICE
LEE'S SUMMIT, MISSOURI

No.	DESCRIPTION	BY	DATE

DATE:	6/9/2020
SCALE:	3/16" = 1'-0"
PLOT SCALE:	1:1
DRAWN BY:	SGD
CHECKED BY:	

DRY CLASSROOM BUILDING LEE'S SUMMIT, MO FIRE ALARM LAYOUT 2464 DRY CLASSROOM SERIAL #: 2279-2280
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MODULAR STRUCTURAL
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9720 COIT RD. STE. 220-503
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TX. REGISTRATION # F-15892

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