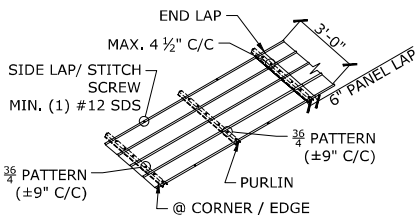


SCOPE OF WORK

- TO PROVIDE STRUCTURAL DESIGN FOR THE PRE-FAB METAL BUILDING PER THE SPECIFIED DESIGN LOADS, AND APPLICABLE BUILDING CODES. ANY DISCREPANCIES IN DESIGN LOADS SHALL BE BROUGHT TO THE ATTN. OF THE ENGINEER OF RECORD.
- DOES NOT PROVIDE** ANY ARCHITECTURAL, SITE, ZONING, HVAC, ELEC, MECH DESIGN OR REQUIREMENTS. THESE ITEMS MUST BE ADDRESSED BY THEIR RESPECTIVE PROFESSIONALS IN CHARGE.

STRUCTURAL DESIGN CRITERIA

PREVAILING CODE:	UBC (IBC 2021)
USE GROUP:	S (STORAGE)
CONSTRUCTION TYPE:	II - B
RISK CATEGORY:	II
BUILDING FOOTAGE:	3840 SQ-FT
DEAD LOAD (D)	
COLLATERAL LOAD	2.00 PSF
ROOF LIVE LOAD	Lr = 20.00 PSF
SNOW LOAD (S)	
GROUND SNOW LOAD	Pg = 7.00 PSF
IMPORTANCE FACTOR	Is = 1.0
THERMAL FACTOR	Ct = 1.2
EXPOSURE FACTOR	Ce = 1.0
ROOF SLOPE FACTOR	Cs = 1.0
FLAT ROOF SNOW LOAD	Pf = 5.88 PSF
SLOPED ROOF SNOW LOAD	Ps = 5.88 PSF
WIND LOAD (W)	Vult = 95 MPH
DESIGN WIND SPEED	
EXPOSURE	C
SEISMIC LOAD (E)	
SS	1.420
S1	0.440
SDs	1.120
SD1	0.740
DESIGN CATEGORY	D
SITE CLASS	D (DEFAULT)
IMPORTANCE FACTOR	Ie = 1.0



SHEATHING FASTENER PATTERN
SCALE: 1/4" : 1'

STRUCTURAL DRAWING INDEX	
CODE	CONTENT
S-1	-SPECIFICATIONS
S-2	-END WALLS ELEVATIONS
S-3	-FRAME SECTIONS & DETAILS
S-4	-FOUNDATION PLAN
S-5	-SIDE WALLS ELEVATIONS & DETAILS
S-6	-FRAME LAYOUT PLAN
S-7	-FRAME END ELEVATIONS
S-8	-SIDE FRAME ELEVATIONS
S-8	-DETAILS

STRUCTURAL DESIGN NOTES

- ALL CONSTRUCTION SHALL BE PROVIDED IN ACCORDANCE WITH UBC 2021, IBC 2021, ASCE7-22, OSHA, AISC 360, AISI 100, AWS D1.3 CODES AND ALL APPLICABLE LOCAL REQUIREMENTS.
- BASE CONNECTIONS SHALL BE PROVIDED AS SHOWN ON FOUNDATIONS DETAILS SHEET.
- ALL MATERIALS IDENTIFIED BY A MANUFACTURER NAME MAY BE SUBSTITUTED WITH MATERIAL EQUAL OR EXCEEDING ORIGINAL.
- ALL SHOP CONNECTIONS SHALL BE WELDED CONNECTIONS. NO FIELD WELDING IS REQUIRED.
- ALL STRUCTURAL FIELD CONNECTIONS SHALL BE #12-14 x 1" SDS (ESR-2196) OR APPROVED EQUAL.
- STEEL SHEATHING SHALL BE 29GA. CORRUGATED GALV. OR PAINTED STEEL - MAIN RIB HT. 3/4" (FY=80 KSI) OR EQ.
- SHEATHING CONNECTIONS SHALL BE #12-14 x 3/4" SDS. NEOPRENE WASHERS ARE REQUIRED.
- ALL STRUCTURAL LIGHT GAUGE TUBING AND CHANNELS SHALL BE ASTM A653 (HSLA) GRADE 50 STEEL (FY = 50 KSI, Fu = 65 KSI) OR EQUAL.
- STRUCTURAL TUBE TS 2 1/2" x 2 1/2" x 14GA (0.083") IS EQUIVALENT TO TS 2 1/4" x 2 1/4" x 12GA (0.109") AND EITHER ONE MAY BE USED IN LIEU OF THE OTHER.
- 12GA IS DEFINED AS 0.109" THICKNESS. 14GA IS DEFINED AS 0.083" THICKNESS. 26GA IS DEFINED AS 0.019" THICKNESS, 29GA IS DEFINED AS 0.015" THICKNESS.
- GYPSUM BOARD OR DRYWALL FINISH OR ANY BRITTLE BASE MATERIAL IS NOT CONSIDERED OR ACCOUNTED FOR ON THE DESIGN CRITERIA OF THIS STRUCTURE, U.N.O.

LEGEND

- (WD) WALK-IN DOORS (REF. DOOR MFG)
- (WN) WINDOWS

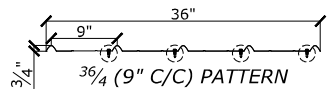
NOTE: ANY DOOR OR WINDOW DESIGN INFORMATION IS NOT COVERED IN THIS PLAN SET AND SHALL BE ADDRESSED BY OTHERS.

ASD LOAD COMBINATIONS:

- Strength (ASCE 2.4):
- D + (Lr or 0.7S)
 - D + 0.6W
 - D + 0.75 (Lr or 0.7S) + 0.75 (0.6W)
 - 0.6D + 0.6W
 - D + 0.7E_v + 0.7E_h
 - D + 0.525E_v + 0.525E_h + 0.1S
 - 0.6D - 0.7E_v + 0.7E_h
- Service:
- D + 0.5 (Lr or S) + W_s

SPECIAL INSPECTIONS:

- PERIODIC INSPECTION OF POST INSTALLED CONCRETE ANCHORS PER ICC-ESR OR BUILDING OFFICIAL REQUIREMENTS
- NO ADDITIONAL SPECIAL INSPECTIONS ARE REQUIRED FOR THIS STRUCTURE UNLESS EXPLICITLY REQUIRED BY THE BUILDING OFFICIAL.



29GA. - 3/4" RIB PROFILE
SCALE: 1" : 1'

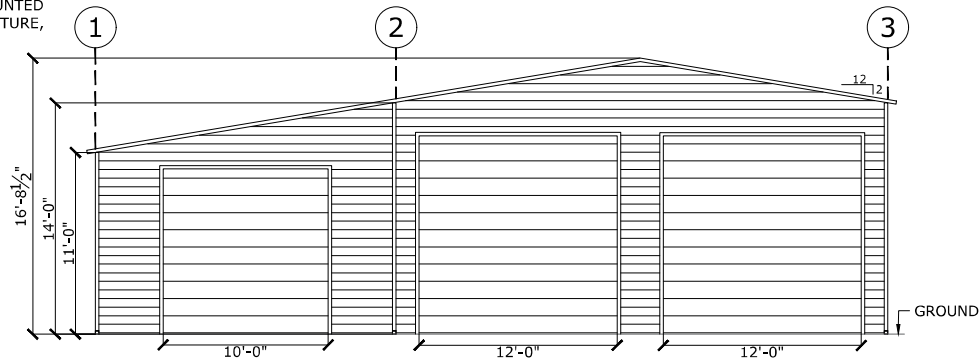
DESIGN NOTES

- THE INTENTION OF ELEVATIONS PROVIDED ON THIS SHEET IS TO INDICATE STRUCTURAL COMPONENTS, DIMENSIONS, AND BUILDING ORIENTATION ONLY.
- ARCHITECTURAL DESIGN REQUIREMENTS ARE NOT COVERED IN THIS PLAN SET. THESE DESIGN REQUIREMENTS SHALL BE ADDRESSED IN A SEPARATE ARCHITECTURAL SET BY RESPONSIBLE LICENSED PROFESSIONALS IN CHARGE, AS NEEDED.
- ALL EXT **WALL** SHEATHING SHALL BE: CLASS A RATED 29GA. 3/4" RIB HT - GALV OR PAINTED STEEL (FY=80 KSI) OR EQ.
- ALL EXT **ROOF** SHEATHING SHALL BE: CLASS A RATED 29GA. 3/4" RIB HT - GALV OR PAINTED STEEL (FY=80 KSI) OR EQ.
- LOC OF WALK-IN DOORS OR WINDOWS CAN BE DETERMINED ON SITE AS LONG AS THEY FALL BETWEEN BAYS (BETWEEN FULL FRAMES).
- PER IBC 1507.4.2 PROVIDE LAP SEALANTS PER MANUFACTURER'S INSTRUCTION AT ROOF SHEATHING LAPS.

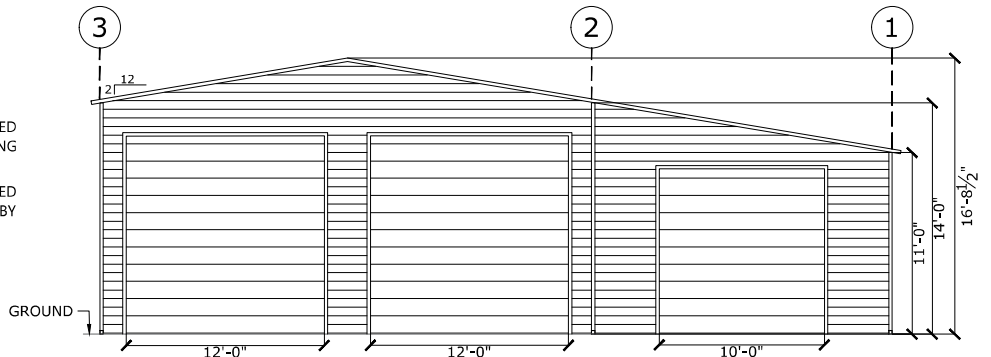
SHEATHING FASTENER SCHEDULE

LOCATION	CORNER PANEL	SIDE LAPS	EDGE LAPS	ELSEWHERE
SPACING	9" C/C	MIN. 1	4 1/2" C/C	9" C/C

FASTENER TYPE: #12-14 X 1" SELF-DRILL SCREWS (ESR-2196) W/ NEOPRENE/STEEL WASHER



FRONT END WALL ELEVATION
SCALE: 3/16" : 1'



REAR END WALL ELEVATION
SCALE: 3/16" : 1'

MEMBER PROPERTIES	
LOCATION	PROPERTY
MAIN BLDG. COLUMN POST	(2) 2 1/2" SQ. X 14GA TUBE - STITCH WELDED
MAIN BLDG. WALL END POST	(2) 2 1/2" SQ. X 14GA TUBE - STITCH WELDED
LEAN TO COLUMN POST	2 1/2" SQ. X 14GA TUBE
MAIN BLDG. ROOF MEMBER	2 1/2" SQ. X 14GA TUBE
LEAN TO ROOF MEMBER	(2) 2 1/2" SQ. X 14GA TUBE - STITCH WELDED
BASE RAIL	2 1/2" SQ. X 14GA TUBE
KNEE BRACE	2 1/2" SQ. X 14GA TUBE
CONNECTOR SLEEVE	2 1/4" SQ. X 12GA TUBE
PURLINS	4" X 1" X 14GA HAT CHANNEL
DIAGONAL BRACE	2" SQ. X 12GA TUBE
HORIZONTAL BRACE	2" SQ. X 12GA TUBE

METAL BUILDING MANUFACTURER

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SEAL BELOW

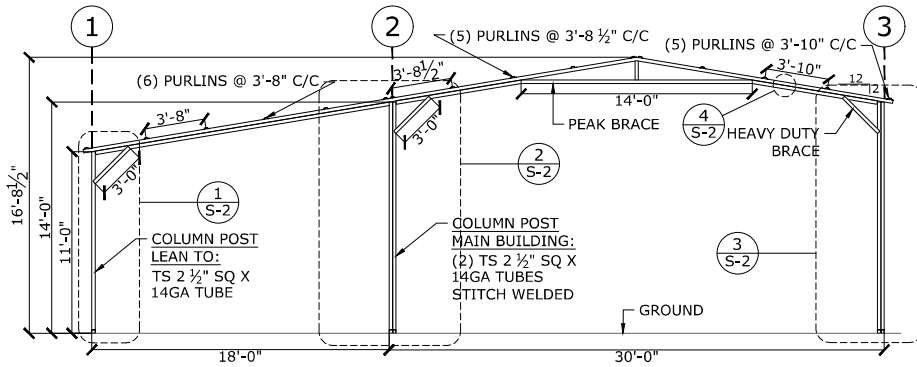
THE ENGINEERING SEAL COVERS STRUCTURAL DESIGN ELEMENTS PRESENTED IN THIS SET OF PLANS. IT DOES NOT PROVIDE ANY ARCHITECTURAL, SITE, ZONING, HVAC, ELEC, MECH DESIGN OR REQUIREMENTS. THESE ITEMS MUST BE ADDRESSED BY THEIR RESPECTIVE PROFESSIONALS IN CHARGE.

PROJECT TITLE: PROJECT LOCATION:

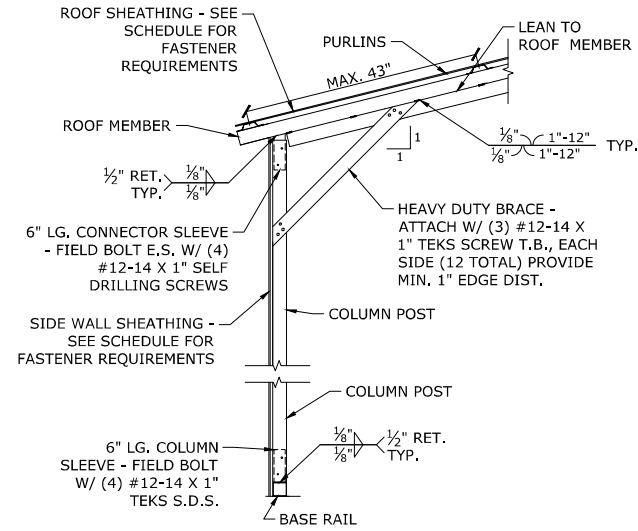
NICHOLAS STEVENS
4585 PACE LN.,
VACAVILLE, CA, 95688

REVISIONS		
MARK	COMMENT	DATED
-	ISSUED FOR PERMIT & CONSTRUCTION	11/04/2022

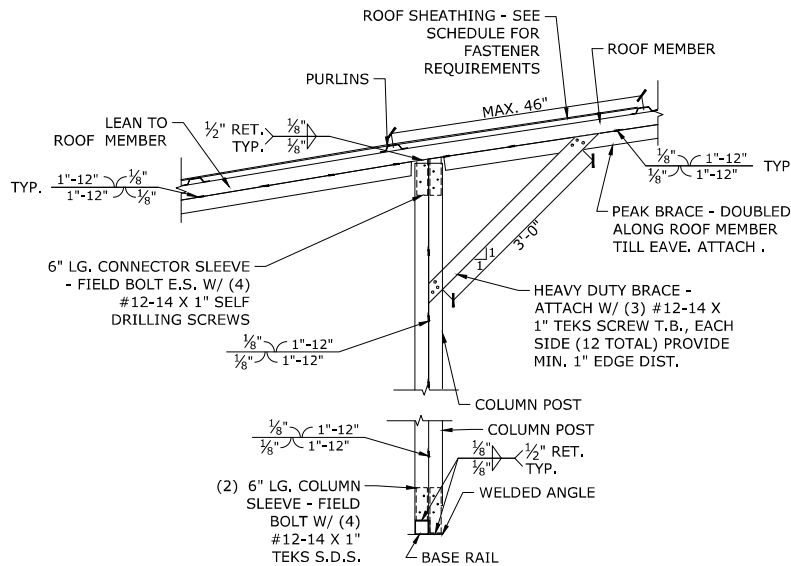
DRAWN BY: NAM GUEVARA DATED: 12/14/2023
 CHECKED BY: NAM GUEVARA DATED: 12/14/2023
 SHEET TITLE: SPECIFICATIONS END WALLS ELEVATIONS
 SHEET NUMBER: S - 1



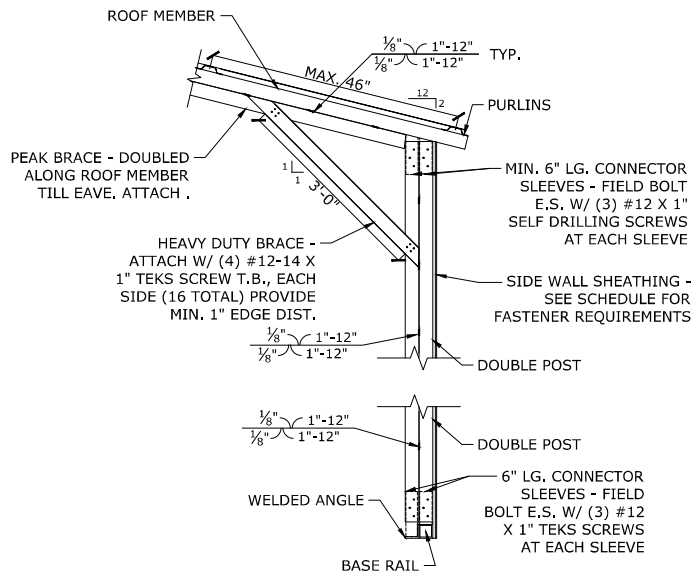
FRAME SECTION
SCALE: 3/16" : 1'



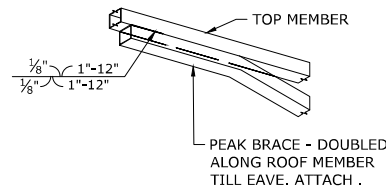
1 LEAN TO FRAME DETAIL
SCALE: 3/4" : 1'



2 FRAME DETAIL
SCALE: 3/4" : 1'



3 MAIN BLDG. FRAME DETAIL
SCALE: 3/4" : 1'



4 PEAK BRACE DETAIL
SCALE: 3/4" : 1'

METAL BUILDING MANUFACTURER



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PROJECT TITLE PROJECT LOCATION

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4585 PACE LN.,
VACAVILLE, CA, 95688

REVISIONS

MARK	COMMENT	DATED
-	ISSUED FOR PERMIT CONSTRUCTION	11/04/2022
△		

DRAWN BY: NANI GUEVARA DATED: 12/14/2023
CHECKED BY: NANI GUEVARA DATED: 12/14/2023
SHEET TITLE: FRAME SECTIONS & DETAILS
SHEET NUMBER:

FRAME SECTIONS & DETAILS

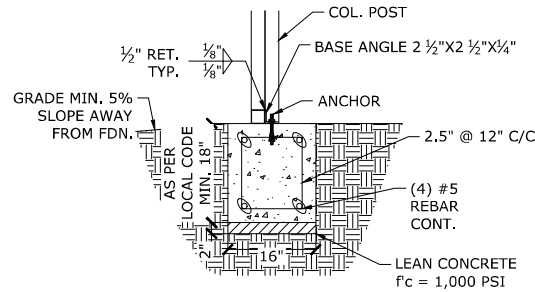
S - 2

FOUNDATION NOTES:

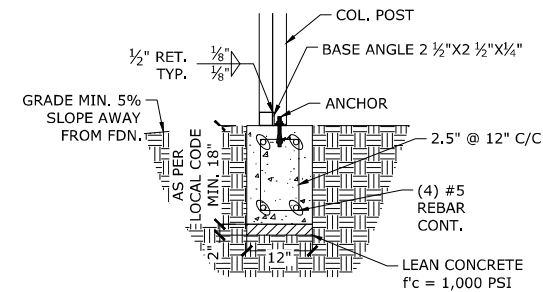
1. CONCRETE ANCHORS SHALL BE LOCATED AS SHOWN ON THE FOUNDATION PLAN WITH A MINIMUM OF (1) ANCHOR PER POST.
2. DEPTH OF FOOTINGS SHALL EXTEND INTO UNDISTURBED SOIL OR COMPACTED ENGINEERING FILL.
3. ASSUMED SOIL BEARING CAPACITY IS TO BE A MIN. OF 1500 PSF.
4. CONCRETE STRENGTH TO BE A MIN OF 3000 PSI @ 28 DAYS. SPECIAL INSPECTION IS NOT REQUIRED AS ALL CONCRETE FOUNDATION DESIGN IS BASED ON A MAX COMPRESSIVE STRENGTH OF 3000 PSI @ 28 DAYS.

REINFORCEMENT NOTES:

1. REINFORCING STEEL: DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60, WITH A MINIMUM YIELD OF 60 KSI FOR ALL BARS UNLESS OTHERWISE INDICATED ON DRAWINGS.
2. CLEAR DISTANCE BETWEEN BARS SHALL BE NOT LESS THAN 1-1/2 TIMES THE MAXIMUM SIZE OF COARSE AGGREGATE UNLESS NOTED OTHERWISE.
3. CONCRETE PROTECTION OF REINFORCING SHALL BE NOT LESS THAN THE FOLLOWING:
 - 3.1. CONCRETE POURED AGAINST AND PERMANENTLY EXPOSED TO GROUND: 3"
 - 3.2. EXTERIOR FACE (EXPOSED TO WEATHER BUT NOT IN CONTACT WITH GROUND): 2"

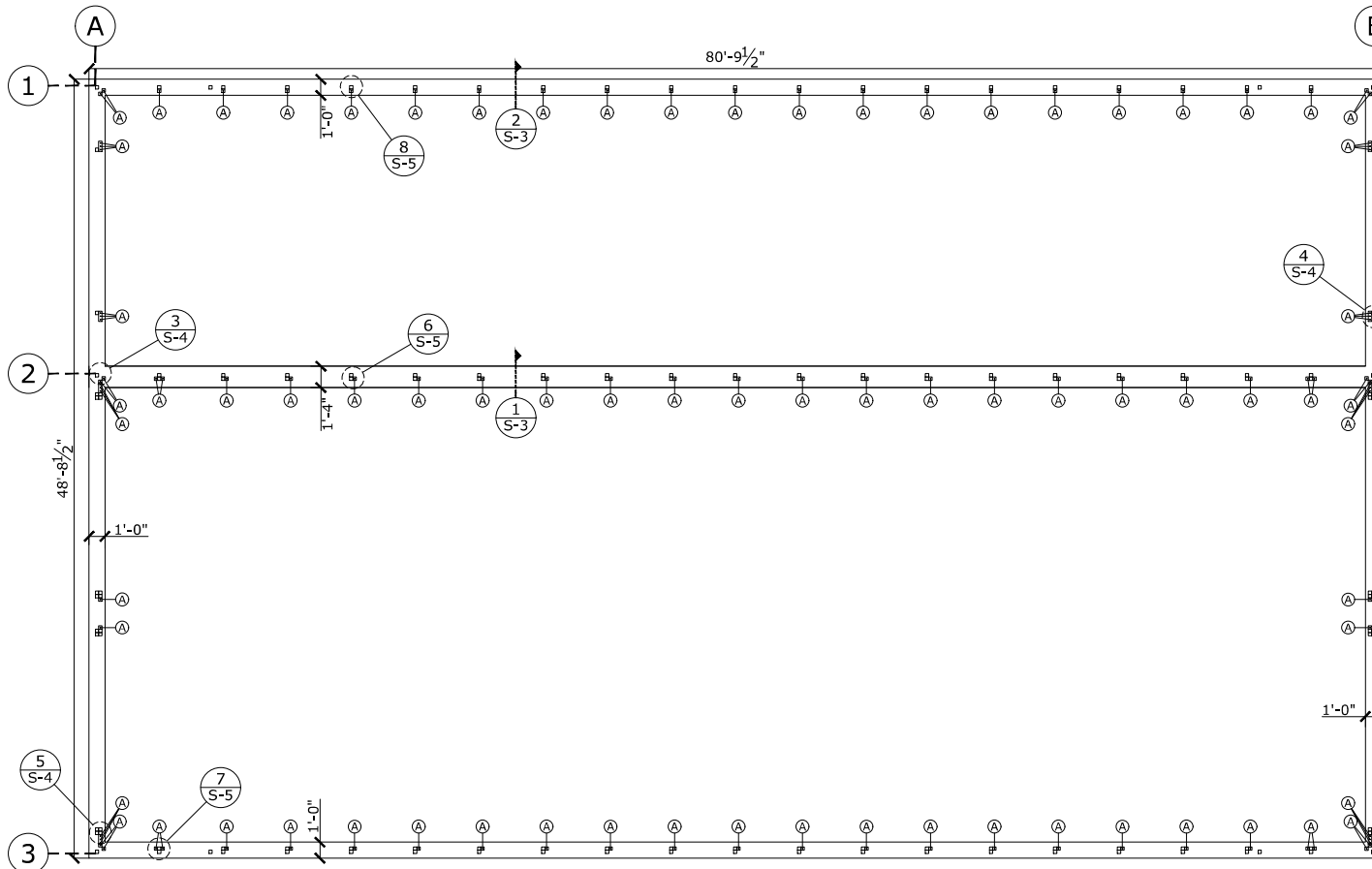


1 FOUNDATION DETAIL
SCALE: 3/4" : 1'

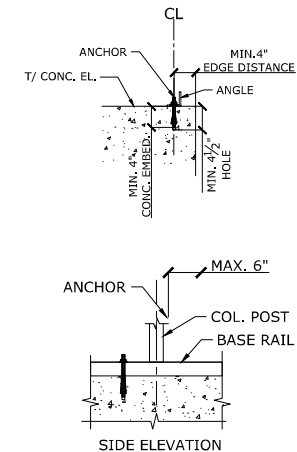


2 FOUNDATION DETAIL
SCALE: 3/4" : 1'

CONCRETE ANCHORAGE	
ANCHOR	1/2" Ø X 7" LG. TITEN HD SCREW ANCHOR (PER ESR 2713)



FOUNDATION PLAN
SCALE: 3/16" : 1'



ANCHORAGE DETAIL
SCALE: 3/4" : 1'

METAL BUILDING MANUFACTURER



STEEL STRUCTURES
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MARK	COMMENT	DATED
-	ISSUED FOR PERMIT A CONSTRUCTION	11/04/2022
△		

DRAWN BY	DATED
NAM GUEVARA	12/14/2023
CHECKED BY	DATED
YAN GUEVARA	12/14/2023

SHEET TITLE

FOUNDATION PLAN

SHEET NUMBER

S - 3

METAL BUILDING MANUFACTURER



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NICHOLAS STEVENS
4585 PACE LN.,
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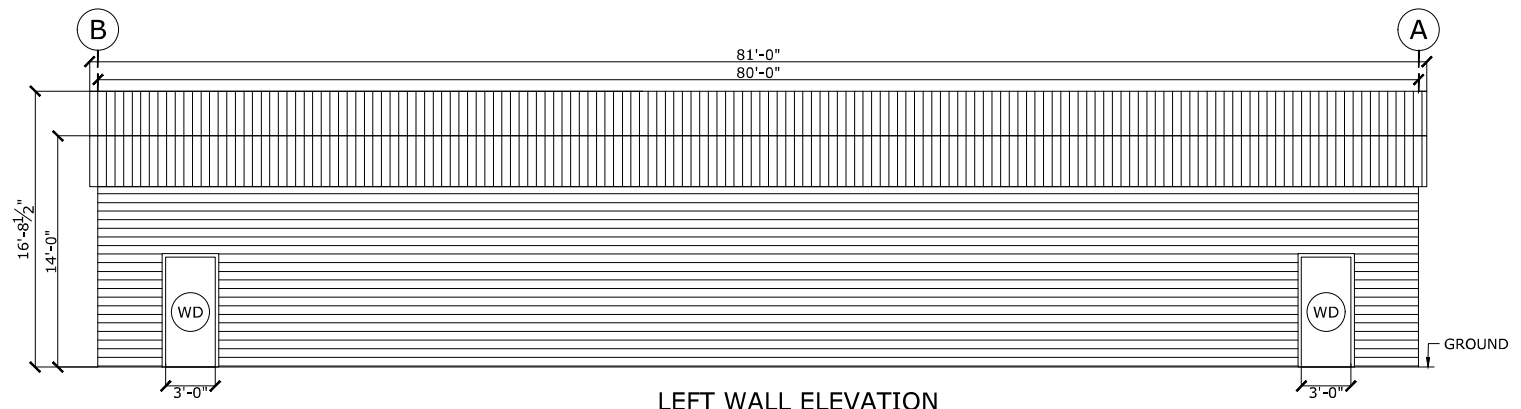
MARK	REVISIONS COMMENT	DATED
△	ISSUED FOR PERMIT CONSTRUCTION	11/04/2022

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 CHECKED BY: **NAJIB GUEVARA** DATED: 12/14/2023
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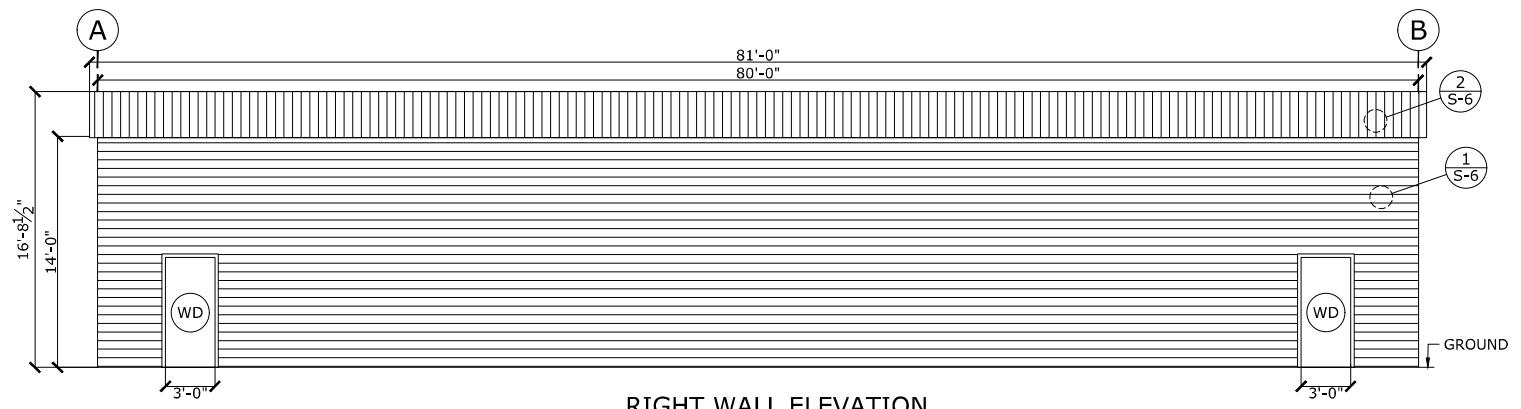
SIDE WALLS ELEVATIONS & DETAILS

SHEET NUMBER

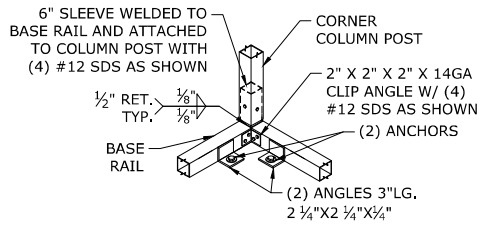
S - 4



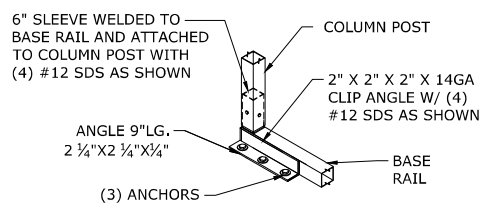
LEFT WALL ELEVATION
SCALE: 3/16" : 1'



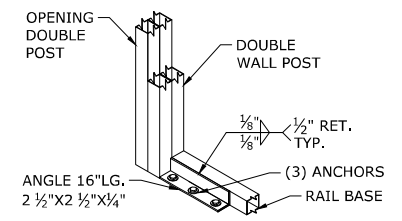
RIGHT WALL ELEVATION
SCALE: 3/16" : 1'



3 BASE DETAIL
SCALE: 3/4" : 1'



4 BASE DETAIL
SCALE: 3/4" : 1'



5 BASE DETAIL
SCALE: 3/4" : 1'

METAL BUILDING MANUFACTURER



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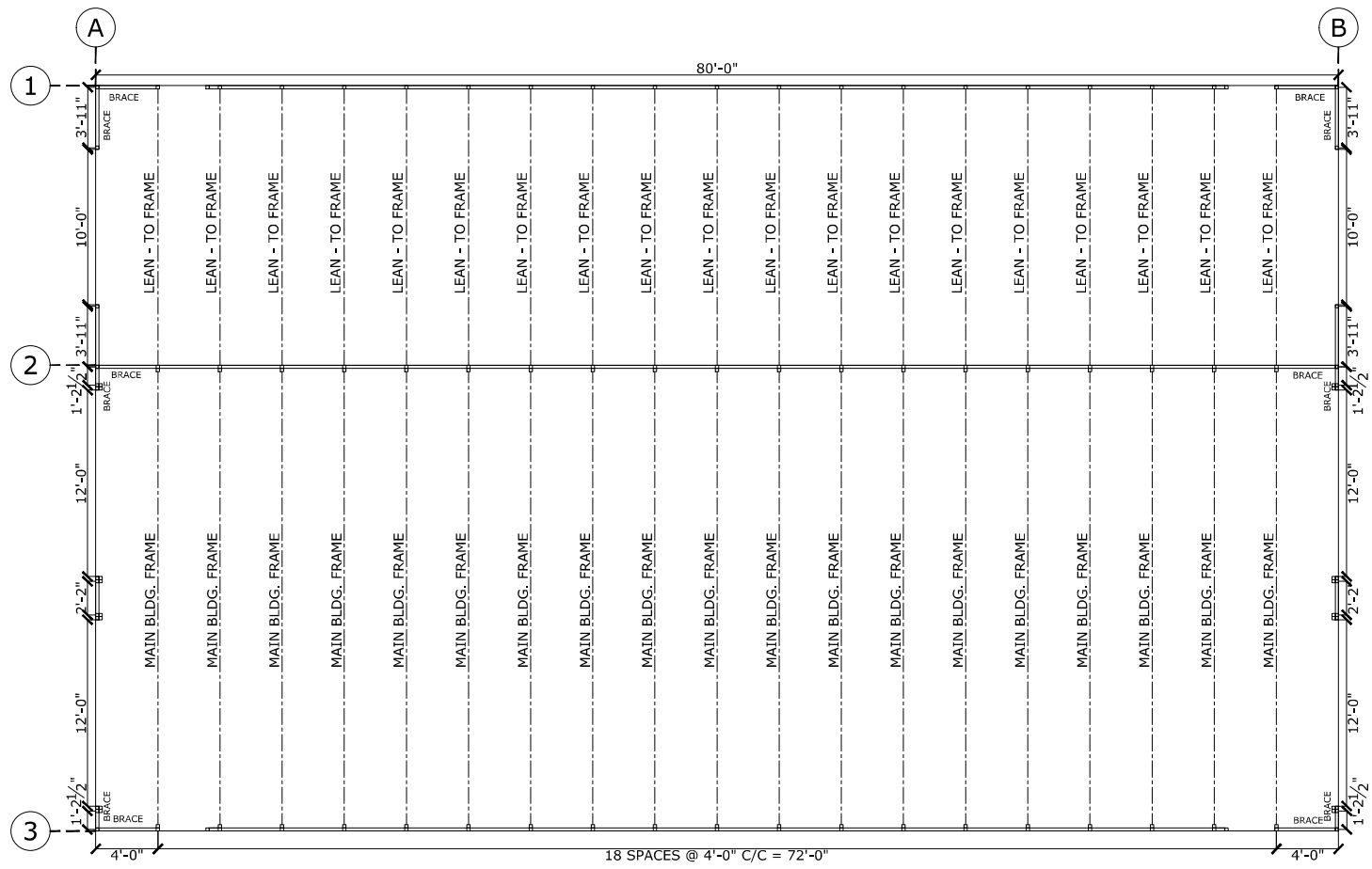
MARK	COMMENT	DATED
-	ISSUED FOR PERMIT A CONSTRUCTION	11/04/2022
△		

DRAWN BY NANU GUEVARA	DATED 12/14/2023
CHECKED BY NANU GUEVARA	DATED 12/14/2023
SHEET TITLE	

FRAME LAYOUT PLAN

SHEET NUMBER

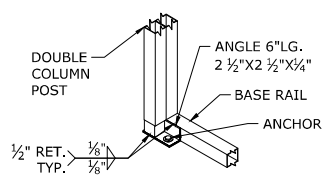
S - 5



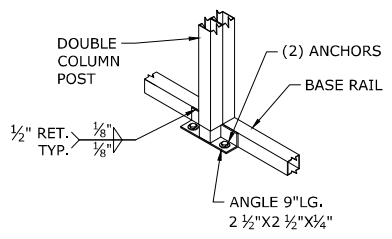
18 SPACES @ 4'-0" C/C = 72'-0"

FRAME LAYOUT PLAN

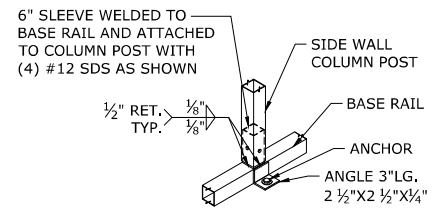
SCALE: 3/16" : 1'



6 BASE DETAIL
SCALE: 3/4" : 1'

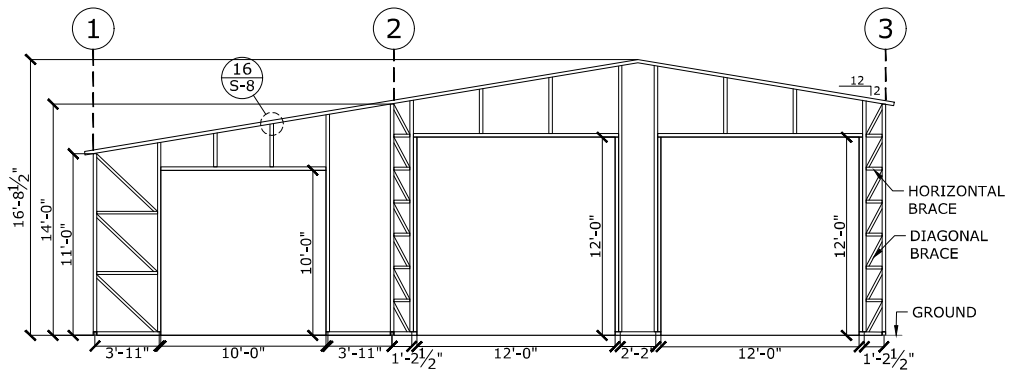


7 BASE DETAIL
SCALE: 3/4" : 1'

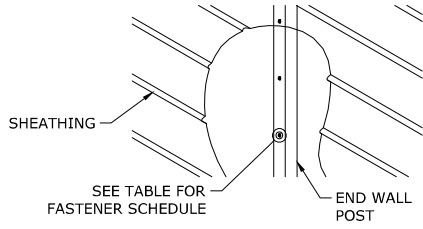


8 BASE DETAIL
SCALE: 3/4" : 1'

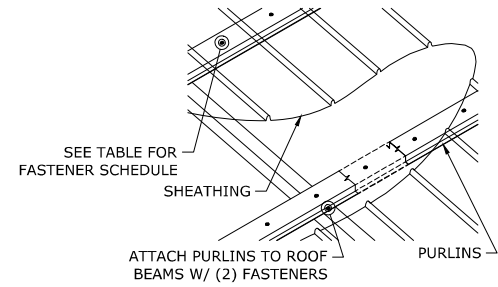
METAL BUILDING MANUFACTURER



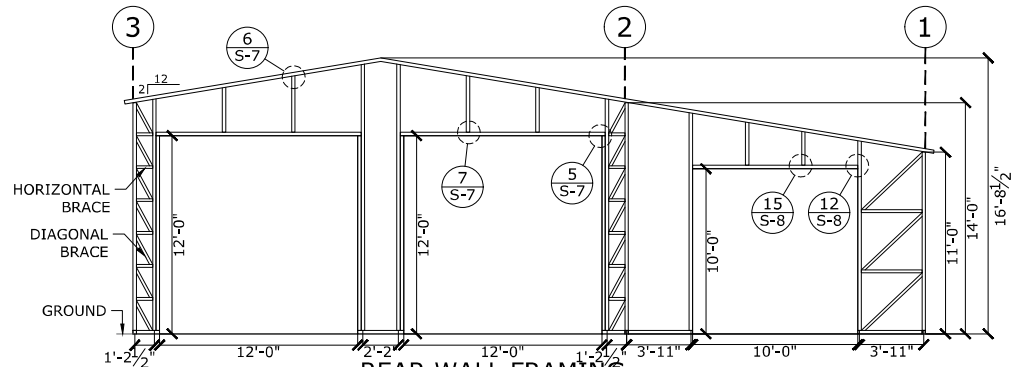
FRONT WALL FRAMING
SCALE: 3/16" : 1'



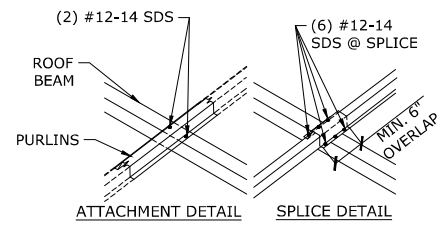
1 WALL SHEATHING DETAIL
SCALE: 3/4" : 1'



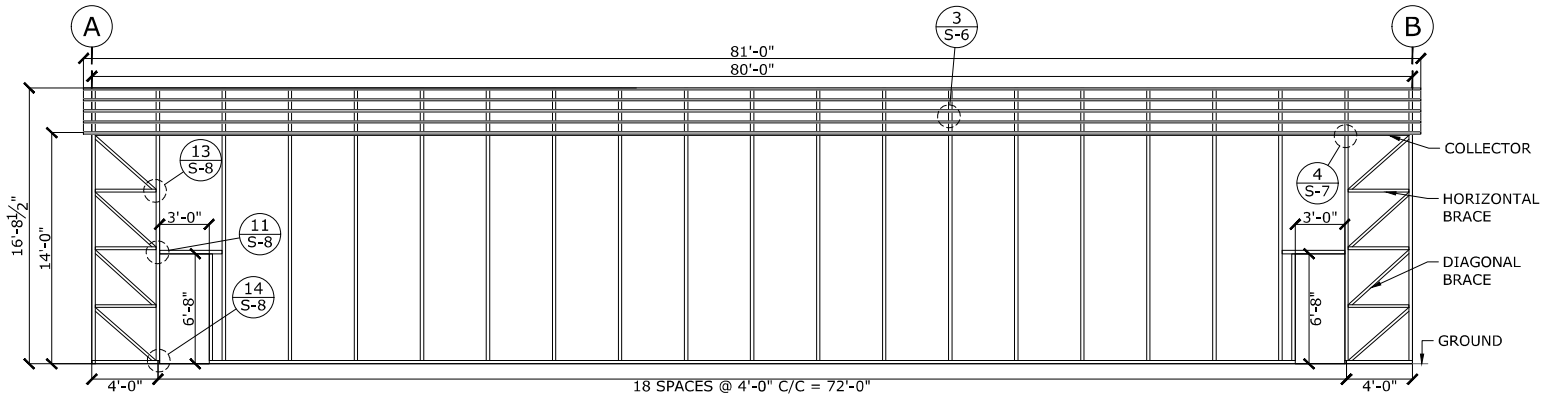
2 ROOF SHEATHING DETAIL
SCALE: 3/4" : 1'



REAR WALL FRAMING
SCALE: 3/16" : 1'



3 PURLIN CONNECTION DETAIL
SCALE: 3/4" : 1'



MAIN BLDG. RIGHT WALL FRAMING
SCALE: 3/16" : 1'



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SEAL BELOW



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PROJECT TITLE PROJECT LOCATION

NICHOLAS STEVENS
4585 PACE LN.,
VACAVILLE, CA, 95688

REVISIONS

MARK	COMMENT	DATED
-	ISSUED FOR PERMIT & CONSTRUCTION	11/04/2022
△		

DRAWN BY	DATED
RAM GUERRA	12/14/2023
CHECKED BY	DATED
RAM GUERRA	12/14/2023

FRAME END ELEVATIONS DETAILS

SHEET NUMBER

S - 6

METAL BUILDING MANUFACTURER



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REVISIONS

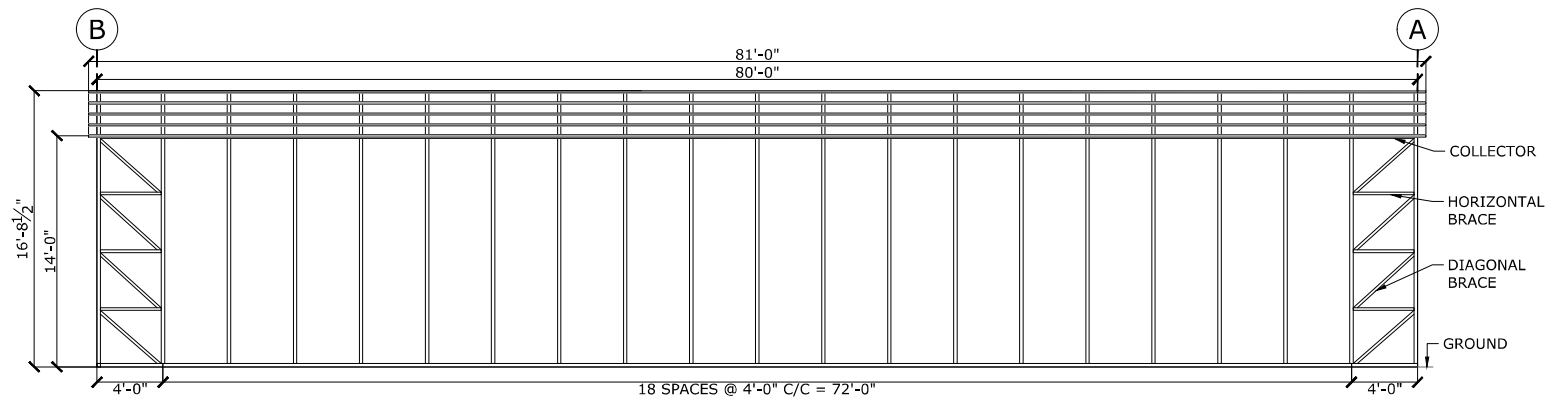
MARK	COMMENT	DATED
-	ISSUED FOR PERMIT & CONSTRUCTION	11/04/2022
△		

DRAWN BY	DATED
NAM GUEVARA	12/14/2023
CHECKED BY	DATED
NAM GUEVARA	12/14/2023
SHEET TITLE	

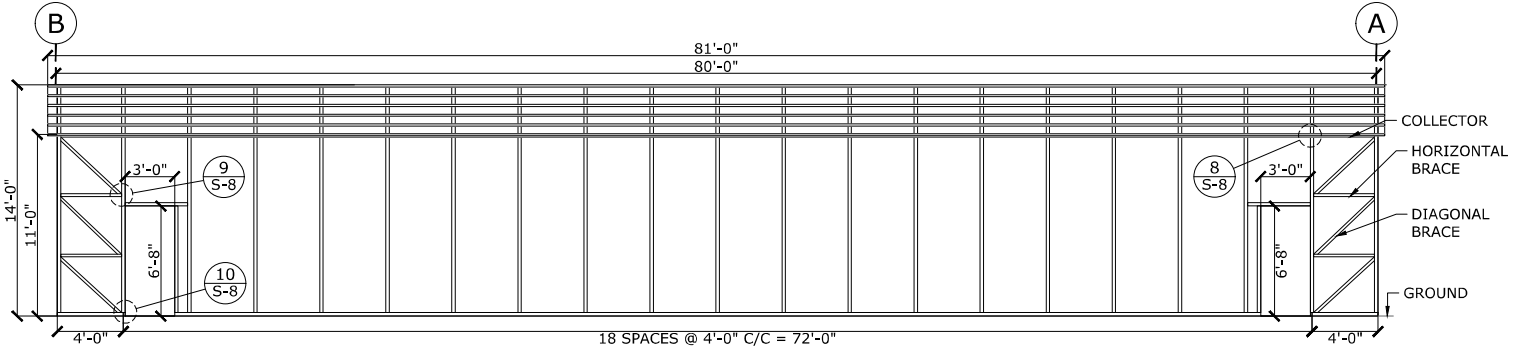
SIDE FRAME ELEVATIONS DETAILS

SHEET NUMBER

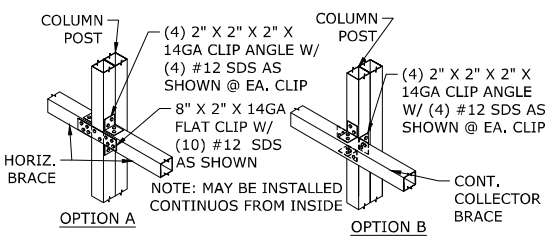
S - 7



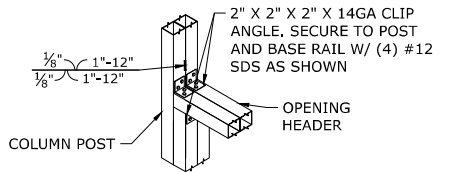
MAIN BLDG. LEFT WALL FRAMING
SCALE: 3/16" : 1'



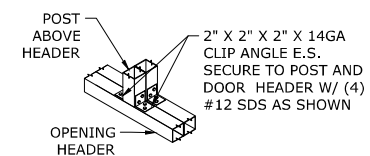
LEAN TO LEFT WALL FRAMING
SCALE: 3/16" : 1'



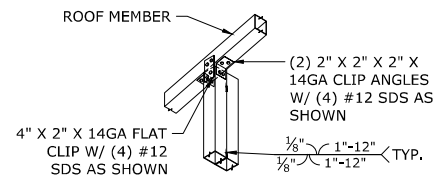
4 COLLECTOR DETAIL
SCALE: 3/4" : 1'



5 HEADER CONNECTION DETAIL
SCALE: 3/4" : 1'



7 ABOVE HEADER DETAIL
SCALE: 3/4" : 1'



6 ROOF MEMBER DETAIL
SCALE: 3/4" : 1'