APPLICABLE CODES AND STANDARDS

- 1. 2020 FLORIDA BUILDING CODE (7TH EDITION)
- 2. 2018 INTERNATIONAL BUILDING CODE
- 3. ASCE 7-16: MINIMUM DESIGN LOADS ON BUILDINGS AND OTHER STRUCTURES
- 4. AISC STEEL CONSTRUCTION MANUAL (15TH EDITION)
- 5. ACI 318-14: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
- 6. TMS 402-16: BUILDING CODE REQUIREMENTS FOR MASONRY
- 7. AWS D1.1: STRUCTURAL WELDING

DESIGN LOADS

- 1. DEAD LOAD = 5 PSF
- 2. LIVE LOAD = 10 PSF
- 3. WIND LOAD

A. RISK CATEGORY = I

- B. WIND EXPOSURE CATEGORY = C
- C. ULTIMATE WIND SPEED = 110 MPH

NOMINAL WIND SPEED = 86 MPH

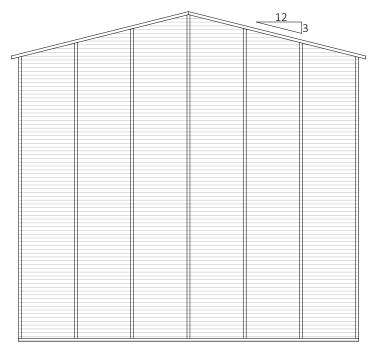
INSTALLATION NOTES AND SPECIFICATIONS

- 1. END WALL COLUMNS (POST) AND SIDE WALL COLUMNS ARE EQUIVALENT IN SIZE AND SPACING U.N.O.
- 2. SPECIFICATIONS APPLICABLE TO 29 GA METAL PANELS FASTENED DIRECTLY TO 2.5"X2.5"X14 GA TUBE STEEL (TS) FRAMING MEMBERS FOR VERTICAL PANELS. 29 GA METAL PANELS SHALL BE FASTENED DIRECTLY TO 18 GA HAT CHANNELS U.N.O.
- 3. AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR PURLINS, AND POSTS, INTERIOR = 9" AND END = 6" MAX.
- 4. FASTENERS CONSIST OF #12-14X3/4" SELF-DRILLING SCREWS (SDS), USE CONTROL SEAL WASHER WITH EXTERIOR FASTENERS. SPECIFICATIONS APPLICABLE ONLY FOR MEAN ROOF HEIGHT OF 20'-0" OR LESS, ANF ROOF SLOPES OF 14° (3:12 PITCH) OR LESS. SPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY VARY.
- 5. ANCHORS SHALL BE INSTALLED THROUGH THE BASE RAIL WITHIN 6" OF EACH RAFTER COLUMN ALONG SIDES AND ENDS.
- 6. STANDARD GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 REBARS WITH WELDED NUT X 30" LONG AND MAY BE USED IN SUITABLE SOILS. OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USED IN UNSUITABLE SOILS AS NOTED. SOIL NAILS MAY BE USED FOR WIND SPEEDS LESS THAN OR EQUAL TO 145 MPH.

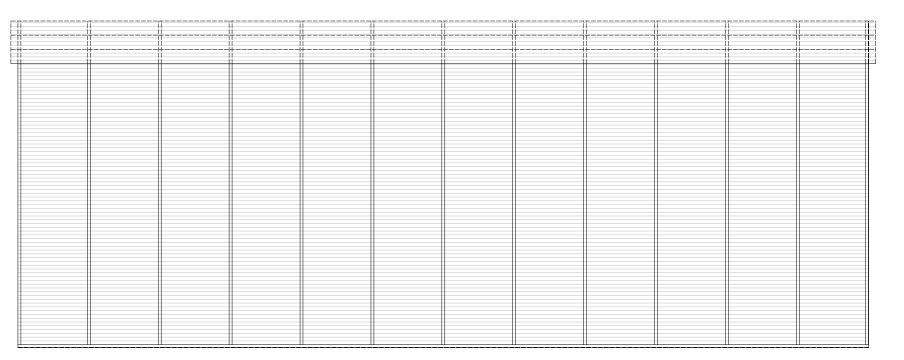
DRAWING INDEX

PAGE NO.	DESCRIPTION
1	NOTES AND SPECIFICATIONS
2	ROOF AND TRUSS LAYOUT
3	CONNECTION DETAILS (1-3)
4	BASE RAIL AND FOUNDATION ANCHORAGE
5	END WALL, SIDE WALL AND OPENING FRAMING
6	VERTICAL ROOF/SIDING OPTION
7	LEAN-TO OPTIONS
8	CONNECTION DETAILS (15-18)

ENCLOSED METAL BUILDING DESIGN MAXIMUM 40'-0" WIDE X 20'-0" EAVE HEIGHT BOX EAVE FRAME



BOX EAVE END WALL - ELEVATION



LOAD-BEARING WALL - ELEVATION



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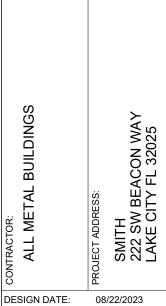
FLORIDA ENGINEERING LLC 4161 TAMIAMI TRAIL, UNIT 101 PORT CHARLOTTE, FLORIDA 33952 (941) 391-5980

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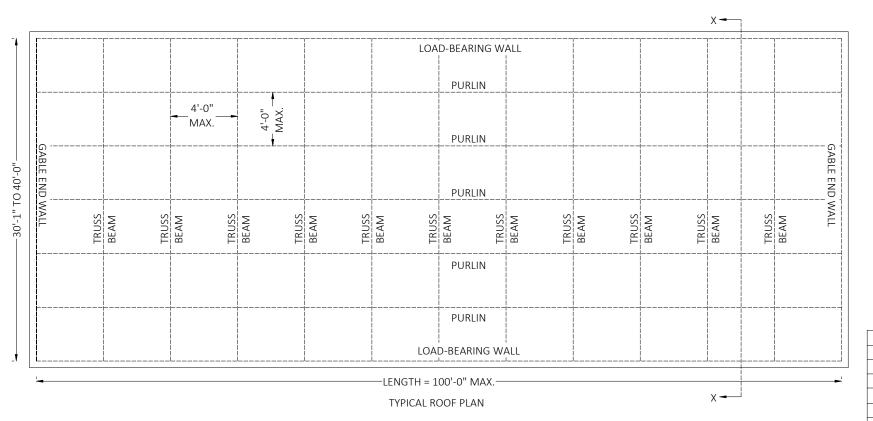
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REVISION 2:

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SCALE:



MEMBER LEGEND:

- 1. ALL GABLE WALL MEMBERS = 2.5"X2.5"X14GA TUBE
- 2. ALL NON-GABLE WALL POSTS = PER TRUSS SECTIONS SHOWN
- 3. PURLIN = 1.5"X18GA HAT CHANNEL
- 4. TRUSS BEAMS = 2.5"X2.5"X14GA TUBE
- 5. TS-BRACE = 2.5"X2.5"X14GA TUBE

This item has been electronically signed and sealed by Kashish H. Vig. P. E. on date below using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on amelectronic copies.

Digitally signed by Kashish Harish Vig Date: STATE OF STATE CORIDA NEW STATE OF STAT 2023.08.22 14:21:54 -04'00'

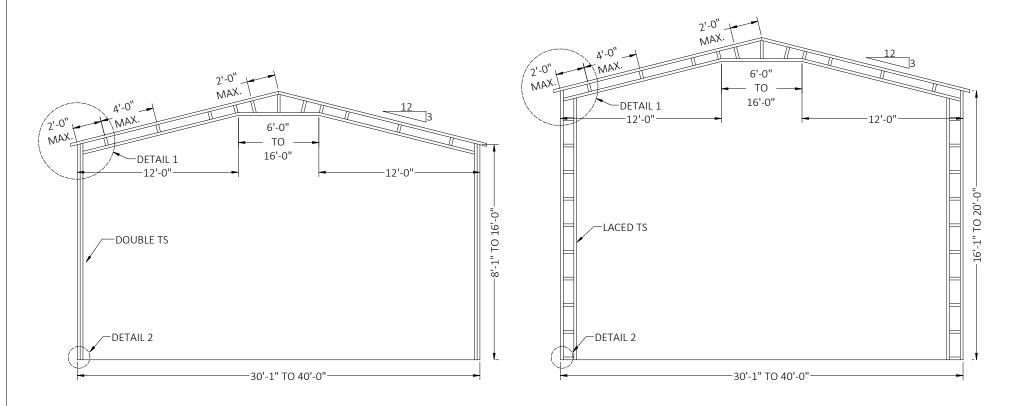
NOTE:

EXTERIOR WINDOWS AND GLASS DOORS SHALL BEAR AN APPROVED LABEL IDENTIFYING THE MANUFACTURER, PERFORMANCE CHARACTERISTICS AND APPROVED PRODUCT EVALUATION ENTITY TO INDICATE COMPLIANCE WITH THE FOLLOWING TABLE. TABLE 1 LISTS THE TYPICAL PRODUCT PREFERENCES FOR THE ENCLOSED BUILDINGS AS SHOWN. APPLICABILITY OF THESE PRODUCTS TO A SPECIFIC BUILDING LAYOUT IS SUBJECT TO THE DESIGN PRESSURES IN TABLE 2.

TABLE 1

MANUFACTURER	PRODUCT	MODEL/SERIES	APPROVAL NO.
USA STEEL BUILDINGS, INC.	ROOF DECKING	36-R PANEL	FL 13364.1-R5
ASTA INDUSTRIES, INC.	ROLL-UP DOOR	MODEL 203	FL 8888.1-R5
ELIXAR DOOR AND METAL CO.	WALK-IN DOOR	SERIES 2500	FL 17996.5-R2
ASSURA WINDOWS AND DOORS	WINDOWS	SERIES 407	FL 21857.2-R4
JANUS INTERNATIONAL CORP.	ROLL-UP DOOR	750 SERIES	FL 12765-R6
CRAWL SPACE DOOR SYSTEMS, INC.	FLOOD VENTS	CSBA816	FL 29622.1-R1
POCAHONTAS ALUMINUM COMPANY, INC.	WALK-IN DOOR	DD 100	FL 12903.1-R5
POCAHONTAS ALUMINUM COMPANY, INC.	WINDOWS	100 VS	FL 12940.1-R6

ROOF PRESSURES IN EXPOSURE B



WIND SPEED (MPH)	PSF		WIND SPEED (MPH)	PSF
110	18.65		110	21.11
120	19.25		120	21.95
130	20.38		130	23.53
140	21.65		140	25.31
150	23.00		150	27.20
160	24.43		160	29.20
170	26.00		170	31.40
		1		
WALL PRESSURES IN EXPOSURE B		WALL PRESSURES IN EXPOSURE C		
WIND SPEED (MPH)	PSF		WIND SPEED (MPH)	PSF
110	23.60		110	28.04

TABLE 2

ROOF PRESSURES IN EXPOSURE C

140	21.65	140	25.31	
150	23.00	150	27.20	
160	24.43	160	29.20	
170	26.00	170	31.40	
WALL PRESSURES IN EXPOSURE B		WALL PRESSURES IN EXPOSURE C		
WIND SPEED (MPH)	PSF	WIND SPEED (MPH)	PSF	
110	23.60	110	28.04	
120	24.58	120	29.41	
130	26.75	130	32.45	
140	29.00	140	35.60	
150	31.40	150	38.96	
160	34.03	160	42.64	
170	36.80	170	46.52	

1 TAMIAMI TRAIL, UNIT 101 (T CHARLOTTE, FLORIDA 33952 (941) 391-5980 FLEng.com Orders@FLEng.com FLORIDA ENGINEERING LLC 101 PORT 161

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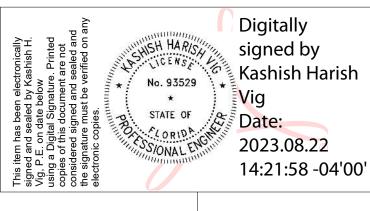


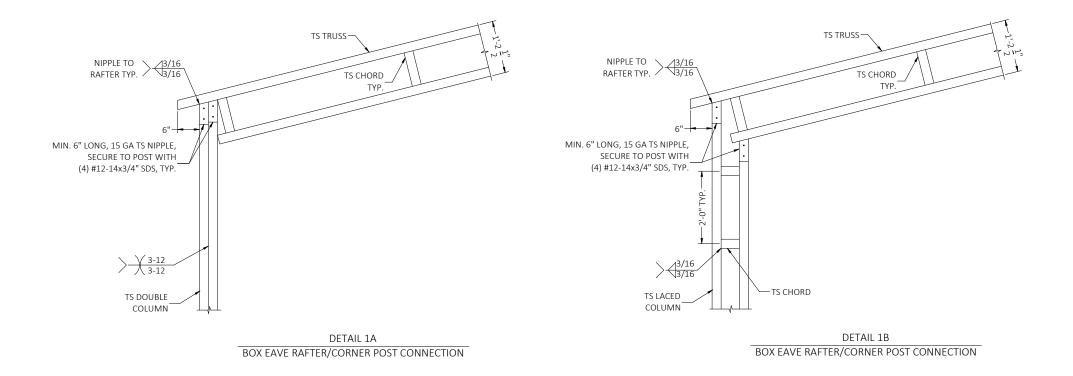


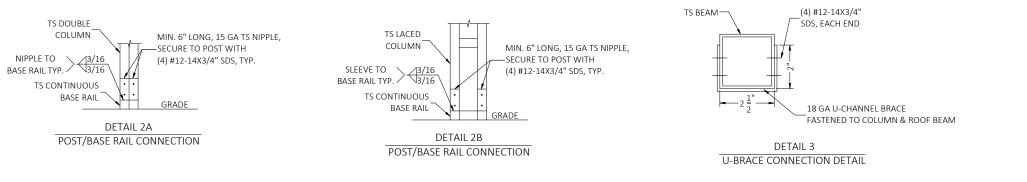
SMITH 222 SW BEACON WAY LAKE CITY FL 32025 ALL METAL BUILDINGS PROJECT ADDRESS:

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CONTRACTOR







FLORIDA ENGINEERING LLC
4161 TAMIAMI TRAIL, UNIT 101
PORT CHARLOTTE, FLORIDA 33952
(941) 391-5980
FLEng.com
Orders@FLEng.com 2323368 PROJECT NO.

CONTRACTOR: ALL METAL BUILDINGS	PROJECT ADDRESS:	222 SW BEACON WAY LAKE CITY FL 32025	
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CONCRETE MONOLITHIC SLAB DESIGN IS BASED ON A MINIMUM SOIL BEARING CAPACITY OF 1500 PSF.

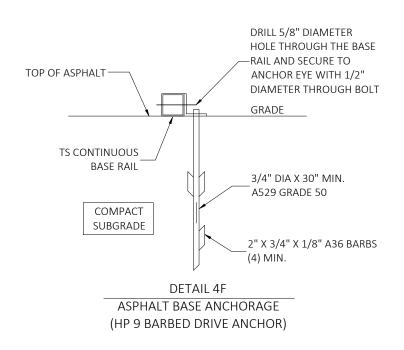
MINIMUM 28-DAY SPECIFIED COMPRESSIVE STRENGTH = 3000 PSI

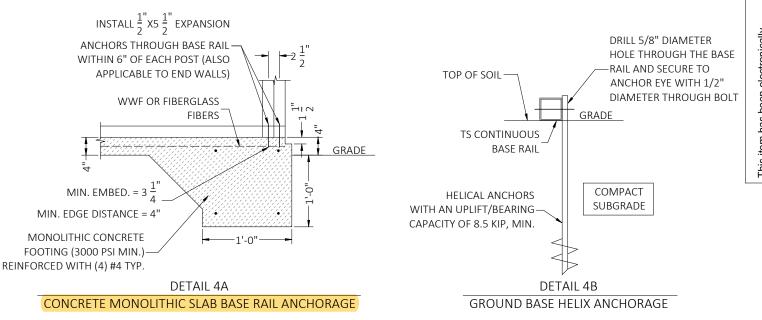
REINFORCING STEEL

- 1. TURNDOWN REINFORCING STEEL = ASTM A615 GRADE 60
- 2. SLAB REINFORCEMENT = WELDED WIRE FABRIC PER ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT
- 3. REINFORCING STEEL COVER = 3" WHERE CASE AGAINST AND PERMENENTLY EXPOSED TO SOIL OR WATER, 1.5" EVERYWHERE ELSE.
- 4. REINFORCEMENT IS BENT COLD.
- 5. MINIMUM INSIDE DIAMETER OF BEND = (6) BAR DIAMETERS
- 6. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.

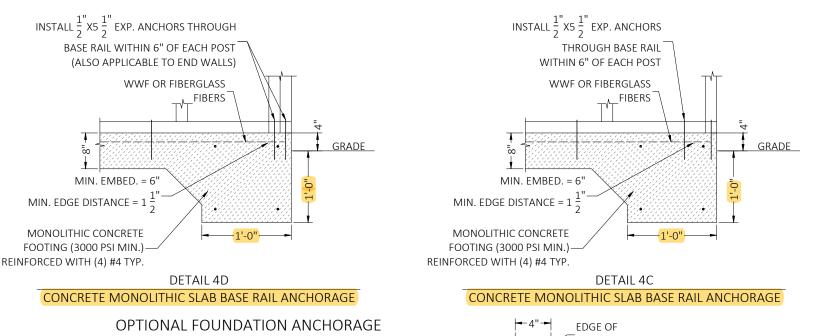
HELIX ANCHOR NOTES

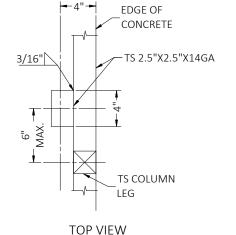
- 1. FOR VERY DENSE AND/OR CEMENTED SANDS, COARSE GRAVEL AND COBBLES, CALICHE, PRELOADED SILTS AND CLAYS, CORALS, MEDIUM DENSE COARSE SANDS, SANDY GRAVELS, VERY STIFF SILTS AND CLAYS, USE MINIMUM (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT EVERY 10'
- 2. FOR MEDIUM TO VERY LOOSE DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS, ALLUVIAL FILL, USE MINIMUM (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT EVERY 5' OR EVERY POST (LEG)
- 3. THE UPLIFT/BEARING CAPACITY OF EACH ANCHOR MUST BE EQUAL TO OR GREATER THAN 8.5 KIPS





BASE RAIL ANCHORAGE OPTIONS





TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE

EDGE OF

SECTION

CONCRETE

BASE RAIL ANCHORAGE OPTION

EXPANSION

ANCHORS

SHISH HARISA Digitally signed by Kashish Harish Vig Date: CORIDA ONE 2023.08.22 14:22:03 -04'00'

No. 93529

STATE OF

TAMIAMI TRAIL, UNIT 101
T CHARLOTTE, FLORIDA 33952
(941) 391-5980
FLEng.com
Orders@FLEng.com ENGINEERING FLORIDA 161





ALL METAL BUILDINGS

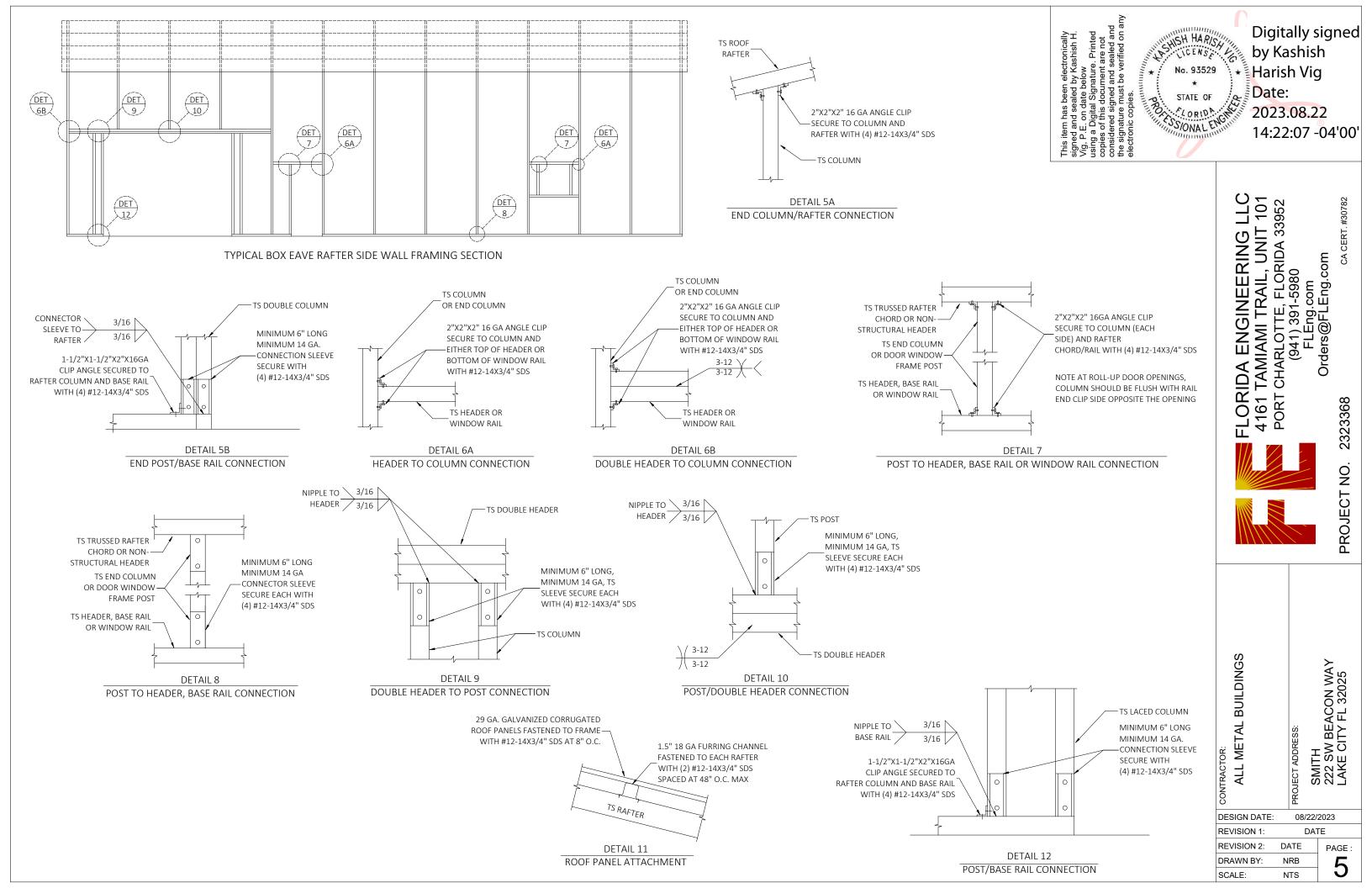
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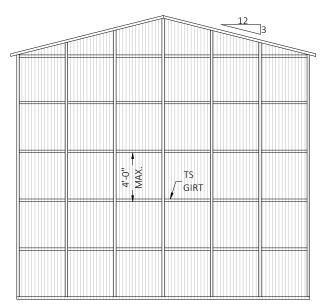
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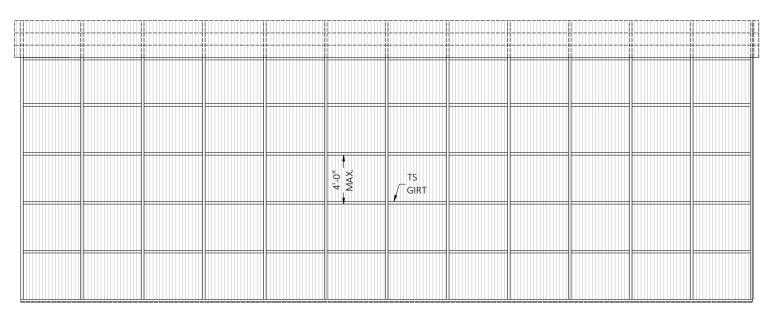
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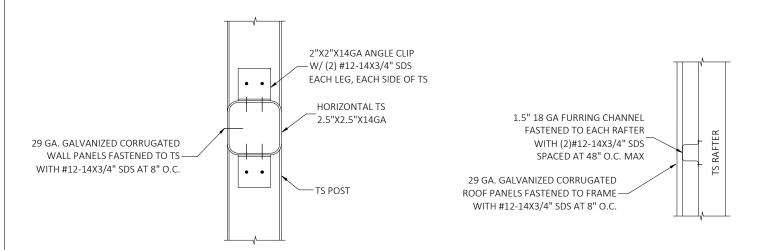




BOX EAVE END WALL - ELEVATION



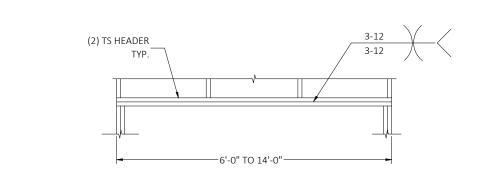
LOAD-BEARING WALL - ELEVATION

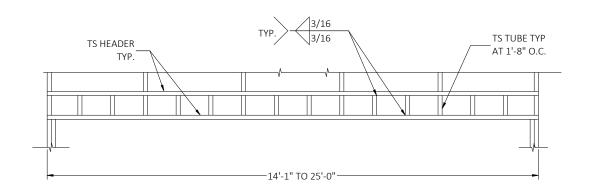


FLUSH TS HORIZONTAL OPTION

FURRING CHANNEL OPTION

DETAIL 13 VERTICAL PANEL WALL ATTACHMENT





OPENING HEADER OPTIONS





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