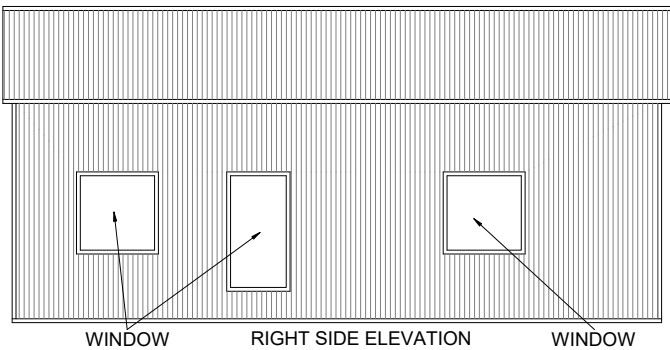
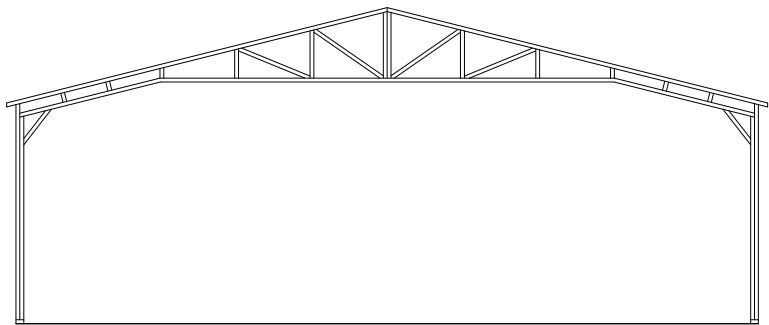


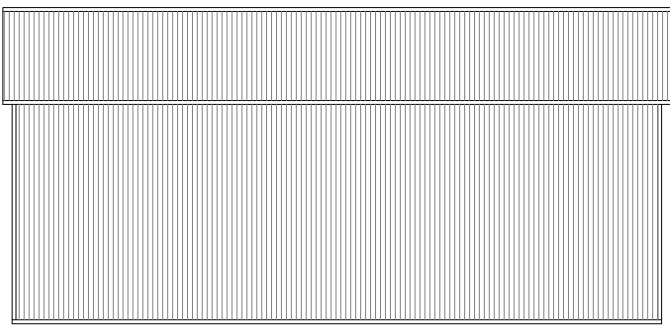
FRONT ELEVATION WINDOW



WINDOW RIGHT SIDE ELEVATION WINDOW



REAR ELEVATION



LEFT SIDE ELEVATION

PROPOSED METAL BUILDING FOUNDATION & SHELL STRUCTURAL DESIGN ONLY. ALL OTHER REQUIRED PERMITS TO BUILD OUT TO A HABITABLE LIVING SPACE ARE TO BE BY OTHERS/ PER SEPERATE CERTIFICATE. INCLUDING BUT NOT LIMITED TO, ELECTRICAL, PLUMBING, ENERGY CALCS., ETC. FOR MORE INFORMATION VISIT:  
<https://flengineeringllc.com/order/> OR SCAN QR CODE.

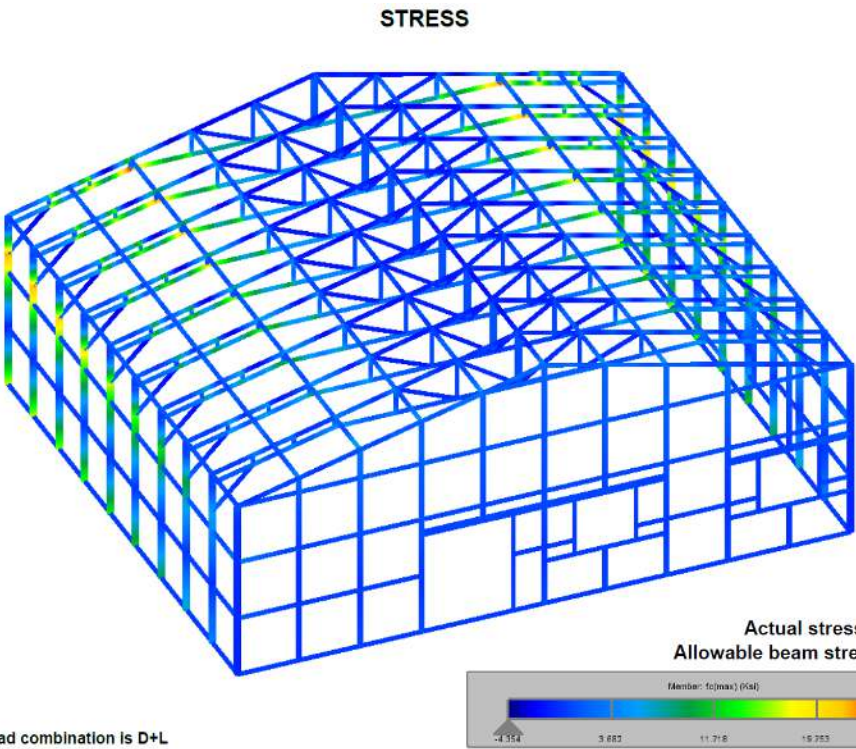


GENERAL NOTES

- APPLICABLE CODES, REGULATIONS, & STANDARDS
  - THE 2020 FLORIDA BUILDING CODE, 7TH EDITION
  - ASCE 7-16 & SEI 7
  - ACI318 CONCRETE REFERENCE MANUAL
- THESE PLANS BELONG EXCLUSIVELY TO THE STRUCTURE, INCLUDING MAIN WIND FORCE RESISTING SYSTEM (MWFRS), COMPONENTS AND CLADDING (C&C), AND BASE RAIL ANCHORAGE. OTHER DESIGN ISSUES, INCLUDING BUT NOT LIMITED TO PROPERTY SET-BACKS, ELECTRICAL, PLUMBING, INGRESS/EGRESS, FINISH FLOOR SLOPES AND ELEVATIONS, OR OTHER LOCAL ZONING REQUIREMENTS ARE THE LIABILITY OF OTHERS.
- THESE STRUCTURES ARE ENGINEERED AS (RISK CATEGORY 2) CAPABLE OF SUPPORTING DEAD LOAD OF THE STRUCTURE AND LIVE AND WIND LOADS. UPGRADES NOT SPECIFICALLY ADDRESSED HEREIN, SUCH AS WINDOWS, DOORS, OR ANOTHER COMPONENT NOT LISTED IN THE FLORIDA BUILDING CODE APROVED PRODUCT LIST, AND NOT PROVIDED AND INSTALLED BY TUBULAR BUILDING SYSTEMS, WHICH CAUSE ADDITIONAL LOADS ON THE STRUCTURE SHALL BE AT THE OWNER'S RISK. FLORIDA ENGINEERING LLC, SHALL NOT BE RESPONSIBLE FOR FAILURE OR STRUCTURAL DAMAGE DUE TO THE EXTRA LOAD.
- LOW ULTIMATE WIND SPEED 105 TO 140 MPH (NOMINAL WIND SPEED 81 TO 108 MPH): MAXIMUM RAFTER/POST AND END POST SPACING = 5.0 FEET.
- HIGH ULTIMATE WIND SPEED 141 TO 170 MPH (NOMINAL WIND SPEED 109 TO 132 MPH): MAXIMUM RAFTER/POST AND END POST SPACING = 4.0 FEET.
- ALL STEEL TUBING SHALL BE 50 KSI GALVANIZED STEEL. ALL FASTENERS SHALL BE ZINC COATED HARDWARE.
- SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/2" x 2 1/2" - 14 GAUGE TUBE STEEL (TS) FRAMING MEMBERS FOR VERTICAL PANELS, 29 GAUGE METAL PANELS SHALL BE FASTENED TO 18 GAUGE HAT CHANNELS (UNLESS OTHERWISE NOTED).
- FASTENERS CONSIST OF #12-14 x 3/4" SELF DRILLING FASTENER (SDF), USE CONTROL SEAL WASHER WITH EXTERIOR FASTENERS SPECIFICATIONS APPLICABLE ONLY FOR MEAN ROOF HEIGHT OF 20 FEET OR LESS, AND ROOF SLOPES OF 14° (3:12 PITCH) OR LESS SPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY VARY.
- AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR PURLINS, AND POSTS, INTERIOR = 9" OR END = 6", (MAX.).
- WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE:  
SOIL SITE CLASS = D  
RISK CATEGORY I/II/III  
R = 3.25      Ie = 1.0  
Sds = 0.087 g      V = CsW  
Sdi = 0.084 g
- GROUND ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6" OF EACH RAFTER COLUMN ALONG SIDES.
- GROUND ANCHOR (SOIL NAILS) CONSIST OF #5 REBAR W/ WELDED NUT X 30" LONG IN SUITABLE SOIL CONDITIONS MAY BE USED FOR LOW (≤ 108 MPH NOMINAL) WIND SPEEDS ONLY. OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USE IN UNSUITABLE SOILS AS NOTED.
- MIN. LAP REQUIREMENT FOR REBAR IN FOOTER IS 25".
- SOIL TO BE COMPACTED TO 95% OF ITS MAXIMUM DRY DENSITY, AT OPTIMUM MOISTURE CONTENT, IN ACCORDANCE WITH ASTM D1557-93
- PRIOR TO PLACING CONCRETE, TREAT THE ENTIRE SUBSURFACE AREA FOR TERMITES IN COMPLIANCE WITH THE FBC. FOR RISK CATEGORY II, III, & IV STRUCTURES ONLY.
- ALL OPEN AREAS OF CONCRETE OUTSIDE OF THE PROPOSED STRUCTURE SHALL BE DESIGNED TO SLOPE AWAY FROM THE STRUCTURE.
- A LANDING OF MIN. 36" WIDTH IN THE DIRECTION OF TRAVEL SHALL BE PROVIDED AT THE EXTERIOR DOORS. SLOPE OF LANDING NOT TO EXCEED 1/4"-1". LANDING LEVEL NOT TO BE LOWER THAN 1-1/2" (FOR EGRESS DOORS) & 7-3/4" (FOR OTHER EXTERIOR DOORS) BELOW THE TOP OF THRESHOLD.

RISK CATEGORY:	II
MAXIMUM DISPLACEMENT :	L/240
ULTIMATE WIND SPEED (MPH):	120
NOMINAL DESIGN WIND SPEED (MPH):	93
WIND EXPOSURE CATEGORY:	C
BUILDING ENCLOSURE TYPE:	ENCLOSED
ROOF ANGLE (DEGREES):	14.0
MEAN ROOF HEIGHT (FEET):	14.5
DEAD LOAD	6.56 KIP
LIVE LOAD	20.0 PSF
DESIGN PRESSURES (PSF):	
ROOF:	
ZONE 1:	+10.9 / -17.2
ZONE 2:	+10.9 / -30.0
ZONE 3:	+10.9 / -44.4
DESIGN ROOF PRESSURES:	+10.9 / -24.2
WALLS:	
ZONE 4:	+18.8 / -20.4
ZONE 5:	+18.8 / -25.2
DESIGN WALL PRESSURES:	+18.8 / -21.4
SWINGING DOOR:	+18.1 / -19.6
WINDOW:	+18.8 / -20.4

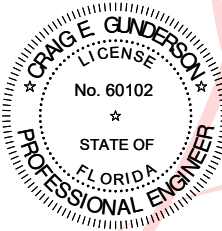
3-D FINITE ELEMENT ANALYSIS PERFORMED  
STRUCTURE COMPLIES W/ FBC 2020 7th EDITION



PRODUCT CATEGORY	SUB CATEGORY	MANUFACTURER	APPROVAL No. & DATE
STRUCTURAL COMPONENTS	ROOF DECK	CAPITAL METAL SUPPLY, INC. 29 GA. CAPITAL RIB ROOF PANEL	FL20147.2-R2 10/13/20
EXTERIOR DOORS	SWINGING	PLASTPRO INC. / NANYA PLASTICS CORP. I. SMOOTH/WOOD GRAIN/ RUSTIC/MAHOGANY SERIES N FIBERGLASS DOOR	FL15220.9-R4 10/11/22
WINDOWS	SINGLE HUNG	SIMONTON 43-06 / 43-17	FL5414.4-R33 11/03/22

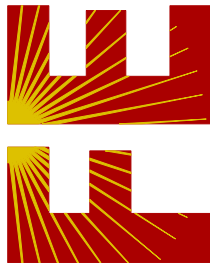
CTP = CONTRACTOR TO PROVIDE APPROVED PRODUCTS THAT MEET OR EXCEED WIND DESIGN PRESSURES.

This item has been electronically signed and sealed by Craig E. Gunderson, 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 any electronic copies.



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by Craig E  
Gunderson  
Date:  
2023.02.17  
10:57:20 -05'00'

FLORIDA ENGINEERING LLC  
4161 TAMiami TRAIL, UNIT 101  
PORT CHARLOTTE, FLORIDA 33952  
(941) 391-5980  
FLEng.com  
Orders@FLEng.com



CA CERT. #30782

PROJECT NO. 2304454

CONTRACTOR:  
TUBULAR BUILDING SYSTEMS

PROJECT ADDRESS:  
CARC  
526 SW SISTERS WELCOME RD  
LAKE CITY, FL 32025

DESIGN DATE: 02/14/2023

REVISION 1: DATE

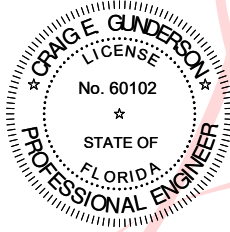
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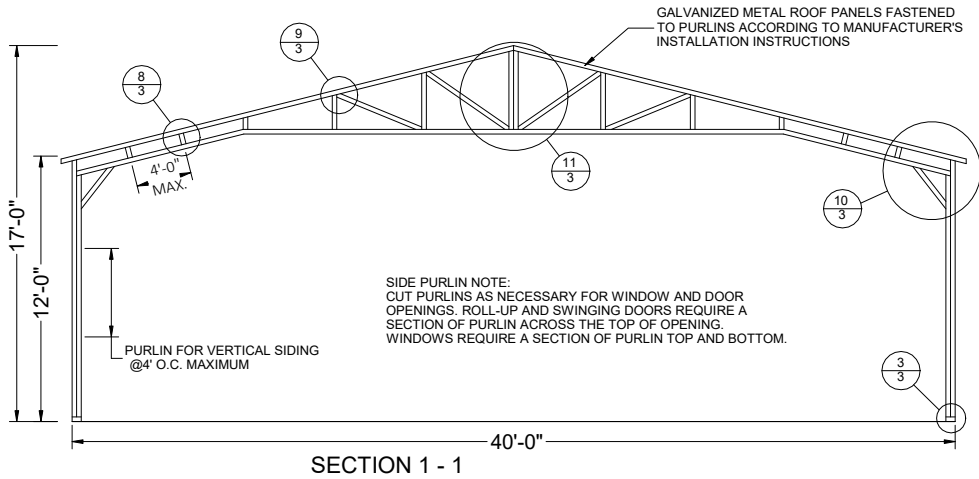
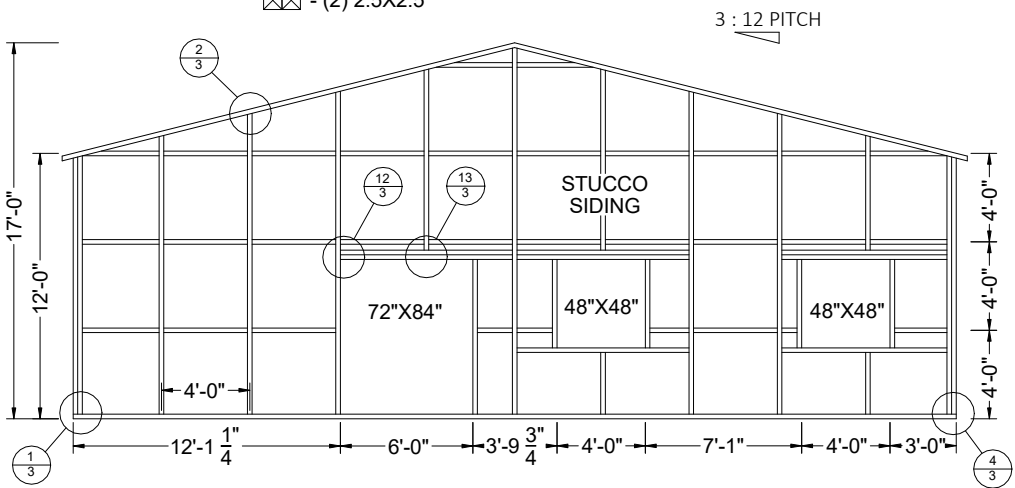
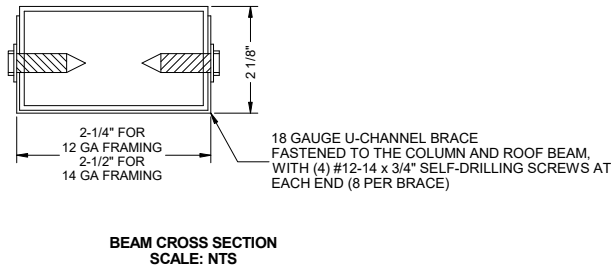
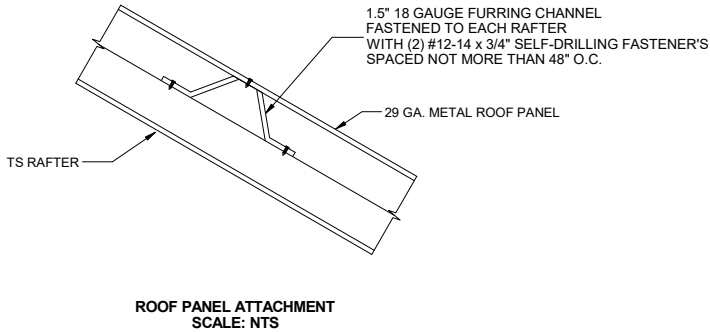
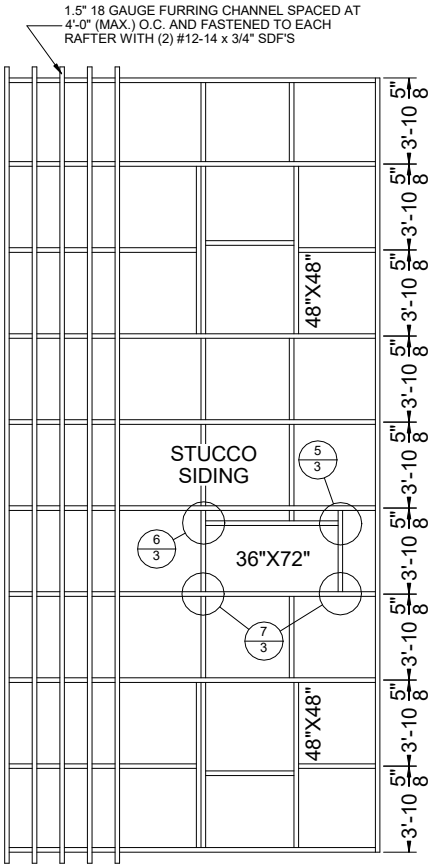
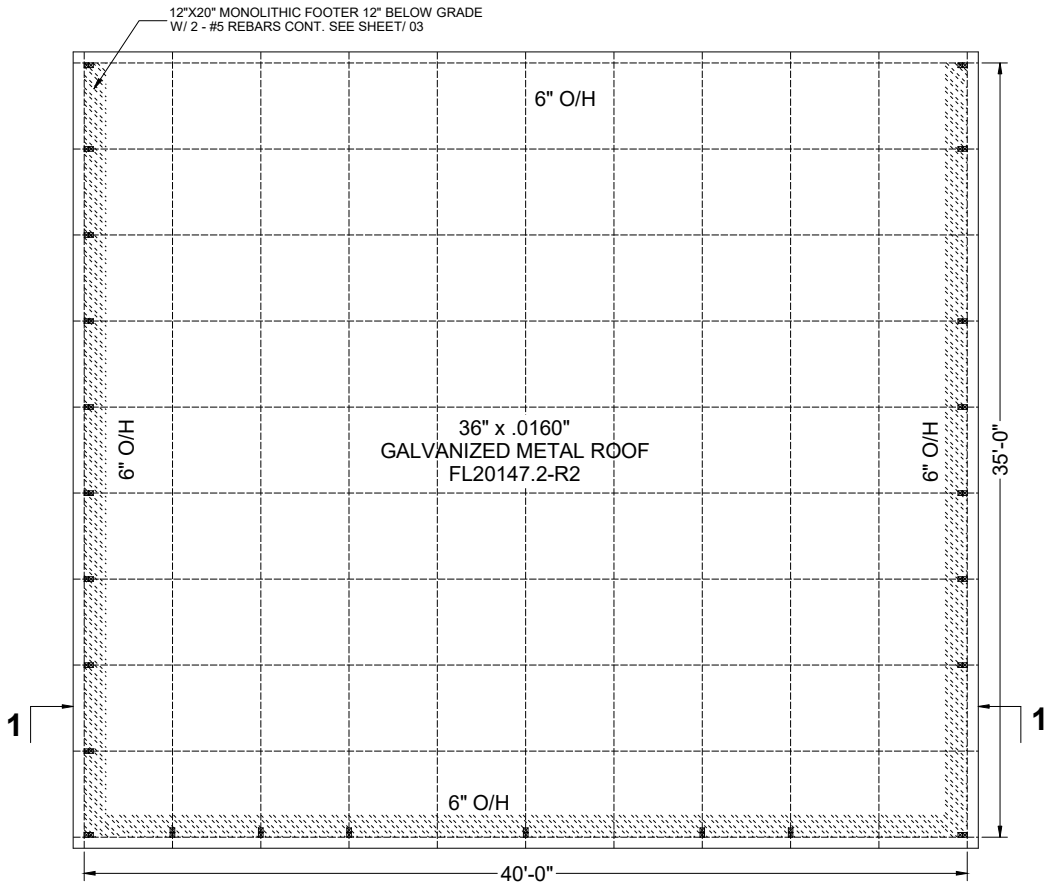
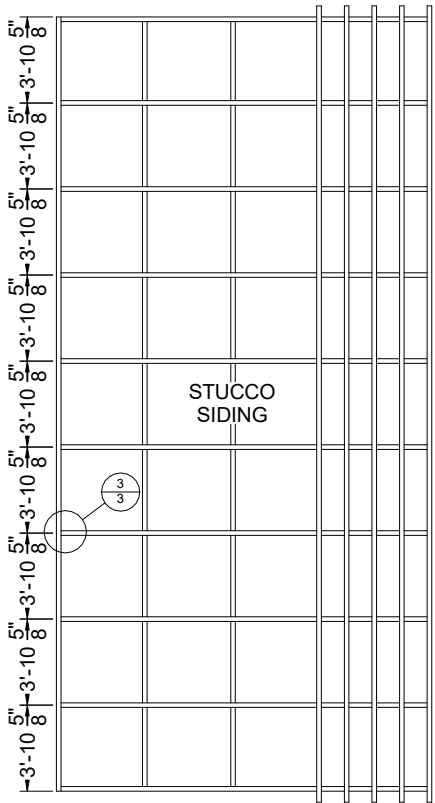
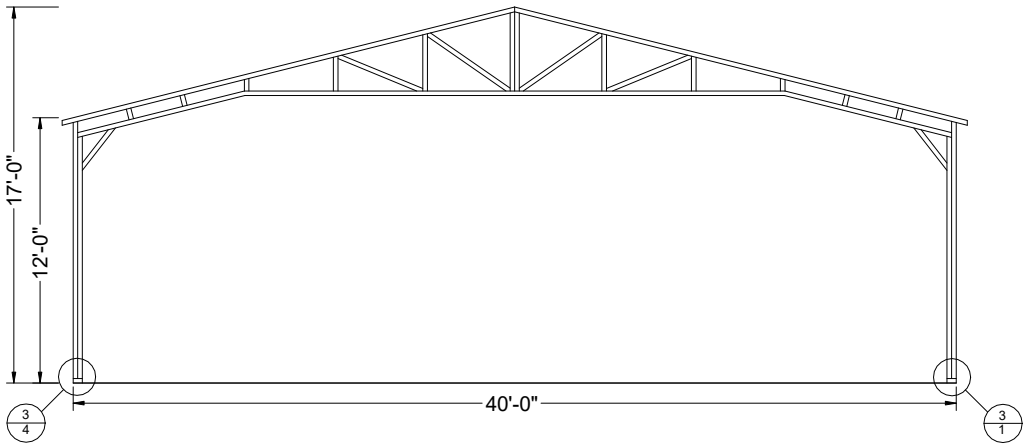
SCALE: NTS

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01

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Gunderson  
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**FL**

PROJECT NO. 2304454

CA CERT. #30782

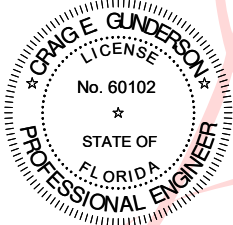
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526 SW SISTERS WELCOME RD  
LAKE CITY, FL 32025

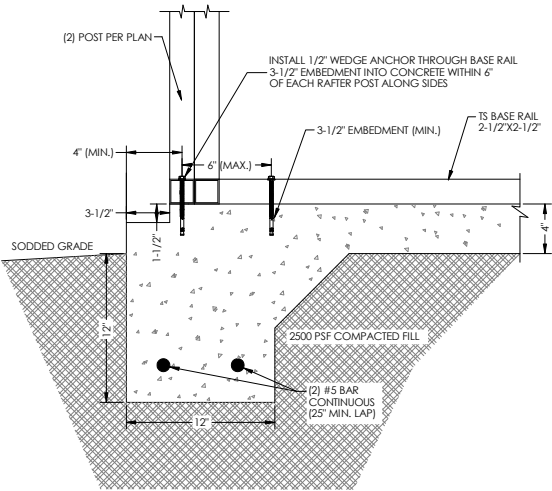
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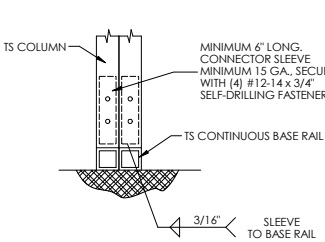
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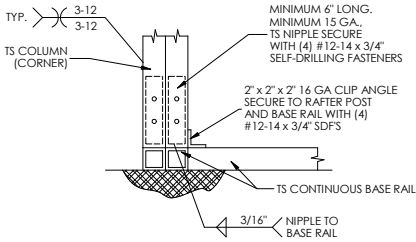
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Date: 2023.02.17  
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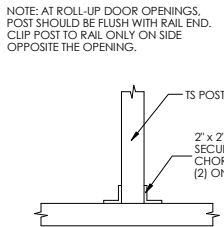
1 12"x20" MONO. FOOTER BASE RAIL ANCHORAGE  
SCALE: NTS



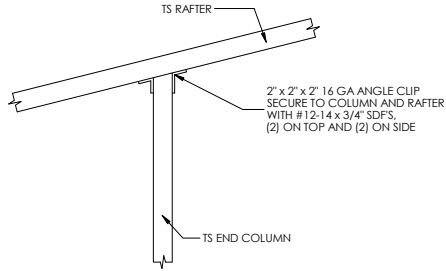
3 RAFTER POST/BASE RAIL  
CONNECTION DETAIL  
SCALE: NTS



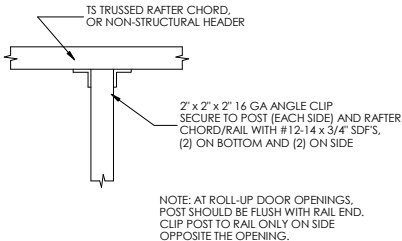
4 END POST/BASE RAIL  
CONNECTION DETAIL  
SCALE: NTS



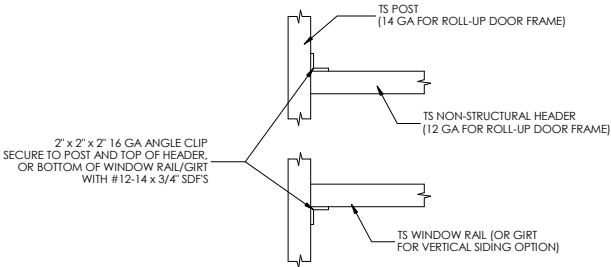
5 POST TO NON-STRUCTURAL HEADER, BASE,  
RAIL OR WINDOW RAIL CONNECTION DETAIL  
SCALE: NTS



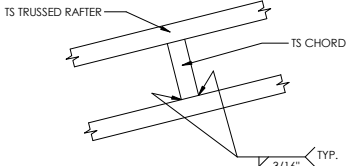
2 END POST/RAFTER  
CONNECTION DETAIL  
SCALE: NTS



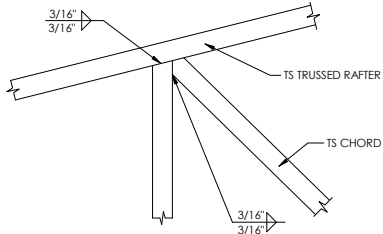
6 POST TO NON-STRUCTURAL HEADER, BASE,  
RAIL OR WINDOW RAIL CONNECTION DETAIL  
SCALE: NTS



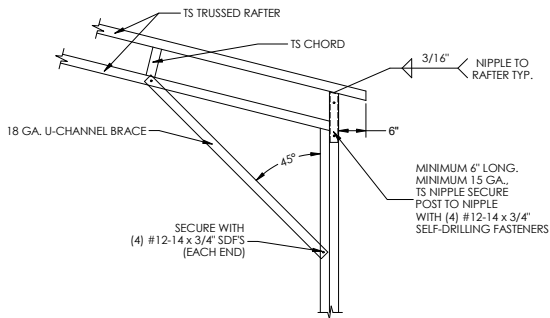
7 NON-STRUCTURAL HEADER OR WINDOW RAIL  
TO POST CONNECTION DETAIL  
SCALE: NTS



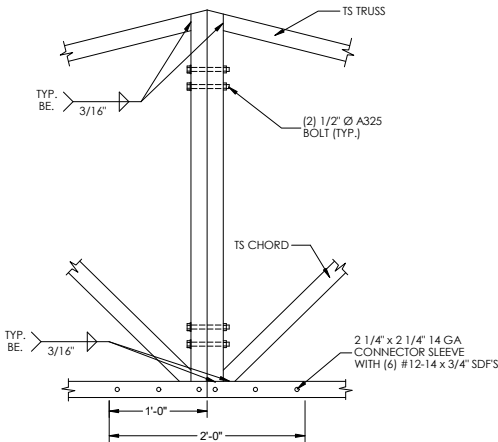
8 CHORD/RAFTER  
CONNECTION DETAIL  
SCALE: NTS



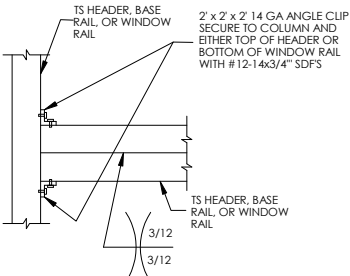
9 TRUSS POST AND CORD  
TO RAFTER CONNECTION DETAIL  
SCALE: NTS



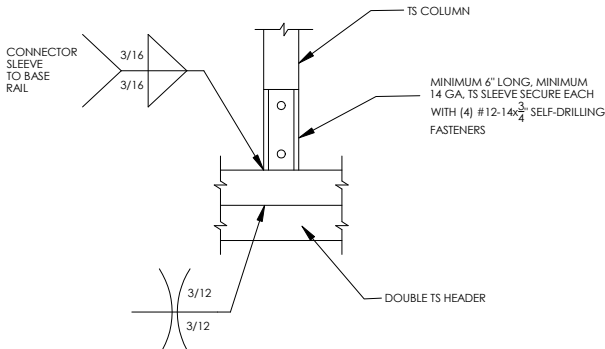
10 RAFTER/LEG ASSEMBLY  
CONNECTION DETAIL  
SCALE: NTS



11 SPLICE  
CONNECTION DETAIL  
SCALE: NTS

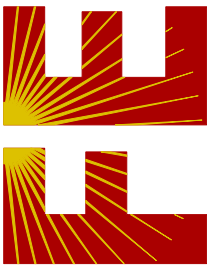


12 COLUMN OR WINDOW  
RAIL TO POST CONNECTION DETAIL  
SCALE: NTS



13 COLUMN/DOUBLE HEADER  
CONNECTION DETAIL  
SCALE: NTS

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03