GENERAL NOTES

0. APPLICABLE CODES, REGULATIONS, & STANDARDS
   A. THE 2020 FLORIDA BUILDING CODE, 7TH EDITION
   B. ASCE 7-16
   C. ACI318 CONCRETE REFRENCE MANUAL

1. 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.

2. 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.

3. 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.

4. 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.

5. ALL STEEL TUBING SHALL BE 50 KSI GALVANIZED STEEL. ALL FASTENERS SHALL BE ZINC COATED HARDWARE.

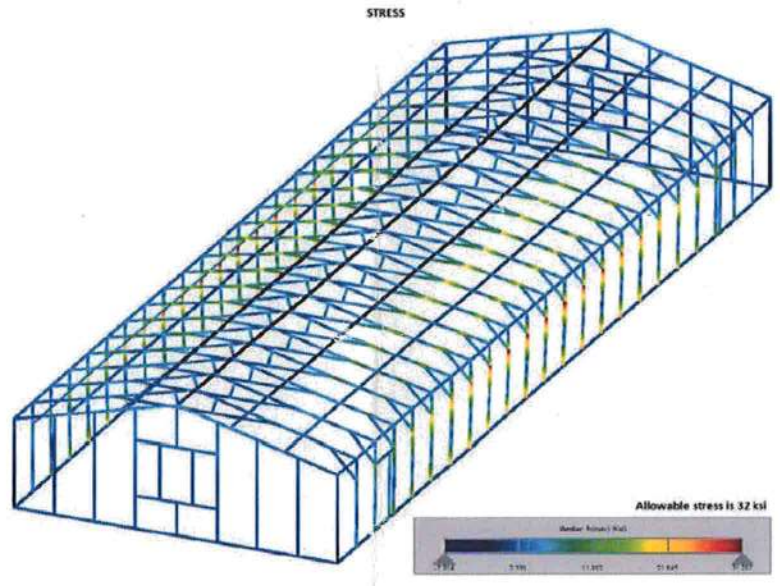
6. SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/2" x 2 1/2" - 14 GAUGE TUBE STEEL (TS) FRAMING MEMBERS FOR VERTICAL PANELS, 29 GAUGE METAL PANELS SHALL BE FASTENED TO 18 GAUGE HAT CHANNELS (UNLESS OTHERWISE NOTED).

7. 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.

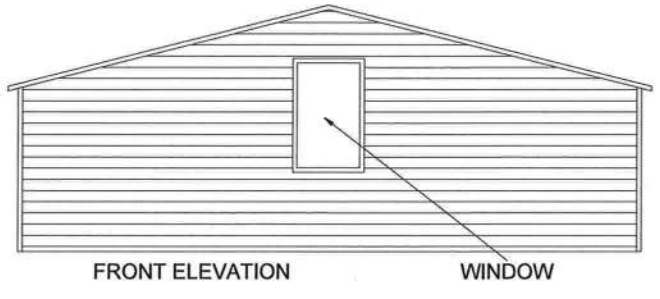
8. AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR PURLINS, AND POSTS, INTERIOR = 9" OR END = 6", (MAX.).

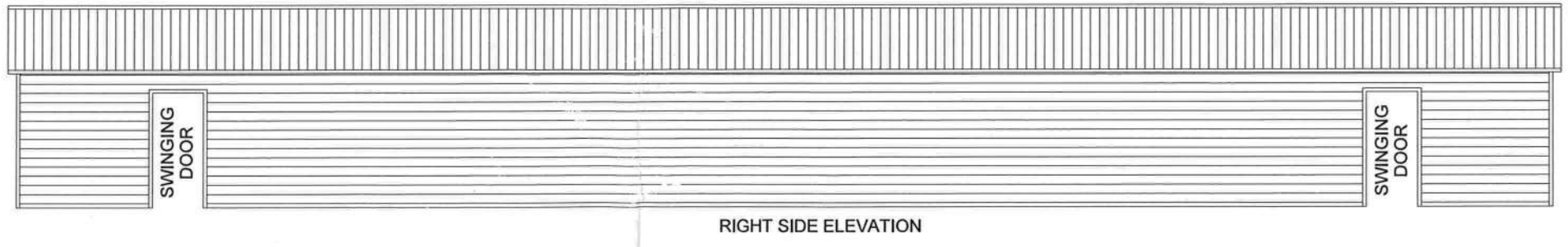
9. WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE:
   SOIL SITE CLASS = D
   RISK CATEGORY I/II/III
   R = 3.25 Ie = 1.0
   Sds = 0.087 g V = CsW
   Sdi = 0.084 g

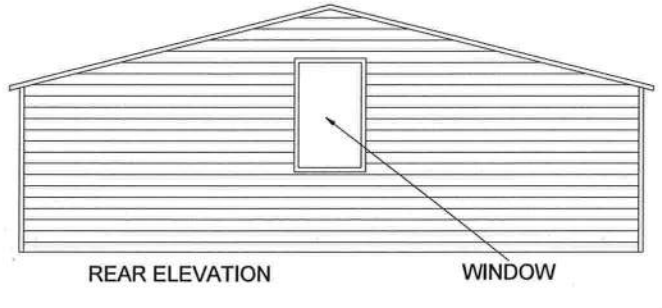
PRODUCT CATEGORY	SUB CATEGORY	MANUFACTURER	APPROVAL No. & DATE
STRUCTURAL COMPONENTS	ROOF DECK	CAPITAL METAL SUPPLY, INC. 29 GA. CAPITAL RIB ROOF PANEL	FL20147.2-R2 10/13/20
STRUCTURAL COMPONENTS	STRUCTURAL WALL	CAPITAL METAL SUPPLY, INC. 29 GA. CAPITAL RIB WALL PANEL	FL20148.2-R2 10/13/20
EXTERIOR DOORS	SWINGING	JELD-WEN A DESIGN PRO SMOOTH PRO STUDIO FIBERGLASS	FL16468.1-R17 12/15/20
WINDOWS	SINGLE HUNG	JELD-WEN WINDOW	FL1404.5

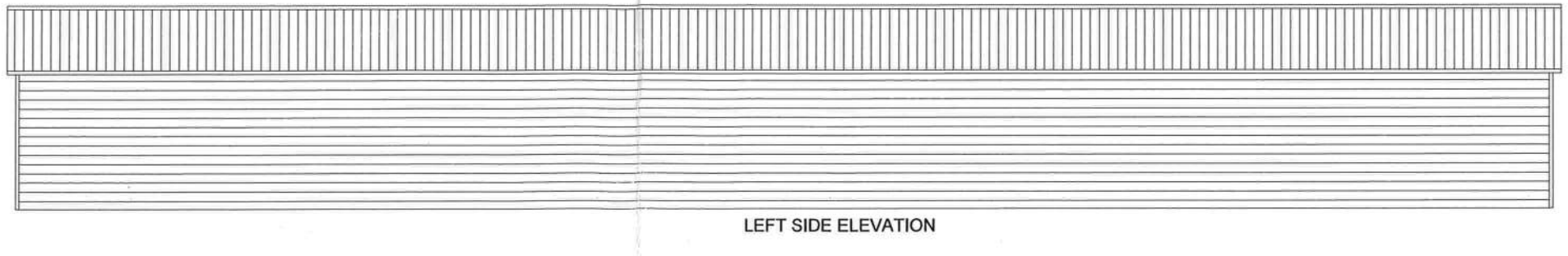


RISK CATEGORY:	II
ULTIMATE WIND SPEED (MPH):	120
NOMINAL DESIGN WIND SPEED (MPH):	93
WIND EXPOSURE CATEGORY:	B
BUILDING ENCLOSURE TYPE:	ENCLOSED
ROOF ANGLE (DEGREES):	14.0
MEAN ROOF HEIGHT (FEET):	9.875
DESIGN PRESSURES (PSF):	
ROOF:	
ZONE 1:	+9.0 / -14.2
ZONE 2:	+9.0 / -24.8
ZONE 3:	+9.0 / -36.6
DESIGN ROOF PRESSURES:	+9.0 / -19.1
WALLS:	
ZONE 4:	+15.5 / -16.9
ZONE 5:	+15.5 / -20.8
DESIGN WALL PRESSURES:	+15.5 / -17.7
SWINGING DOOR:	+14.9 / -16.1
WINDOW:	+15.5 / -16.9









COLUMBIA COUNTY BUILDING DEPARTMENT
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EXAMINER

CRAIG E. GUNDERSON ☆ LICENSE No. 60102 ☆ STATE OF FLORIDA ☆ PROFESSIONAL ENGINEER

Craig E. Gunderson, P.E. #60102
DATE: AUG 0 4 2021

FLORIDA ENGINEERING LLC
4161 TAMIAMI TRAIL, UNIT 101
PORT CHARLOTTE, FLORIDA 33952
(941) 391-5980
www.flengineeringllc.com
CA CERT. #30782

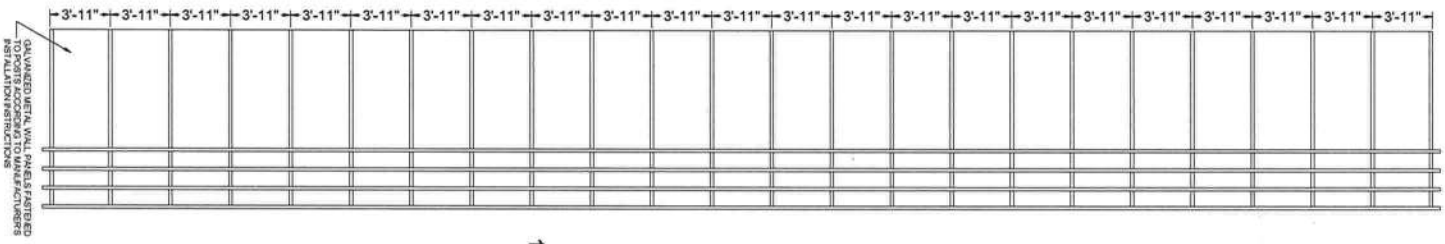
PROJECT NO. 21207106

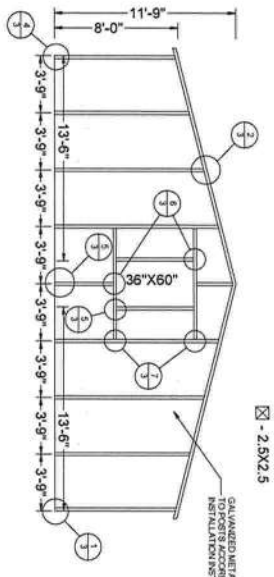
CONTRACTOR: TUBULAR BUILDING SYSTEMS

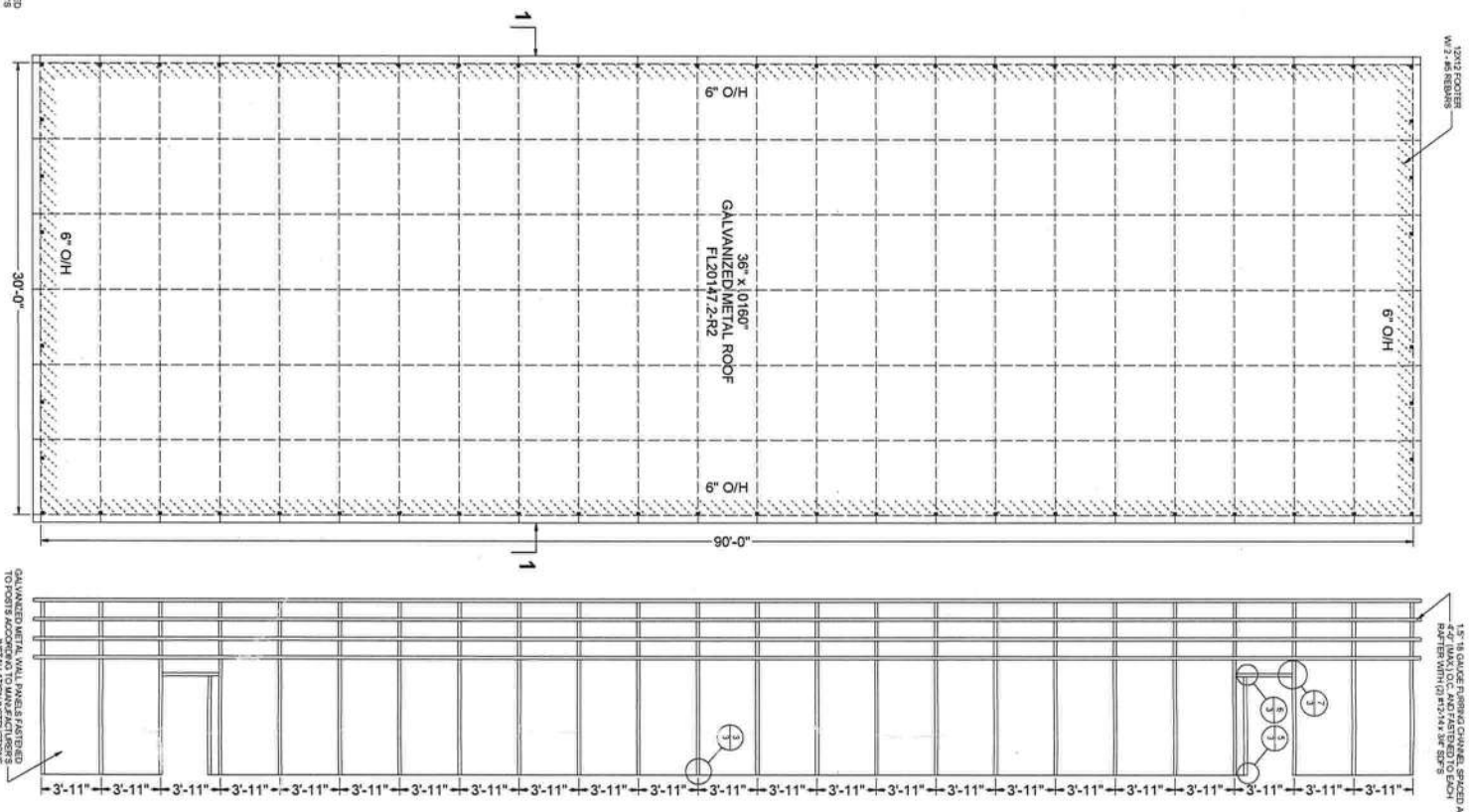
PROJECT ADDRESS:
COLLAR
359 SE SEAWOLF WAY
HIGH SPRINGS, FL

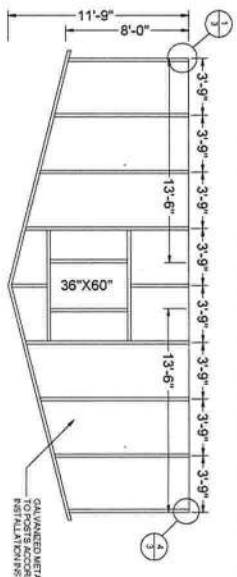
DESIGN DATE:	07/29/2021
REVISION 1:	DATE
REVISION 2:	DATE
DRAWN BY:	TCP
SCALE:	NTS

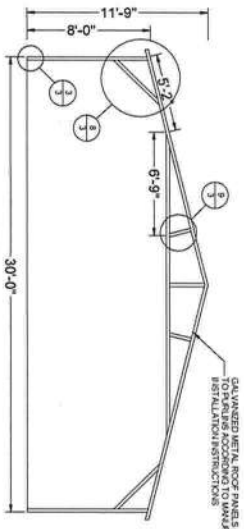
SHEET: 01



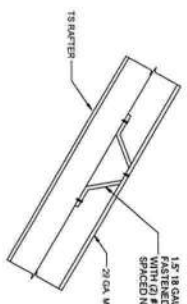




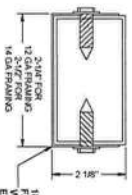




SECTION 1 - 1



ROOF PANEL ATTACHMENT
SCALE: NTS



BEAM CROSS SECTION
SCALE: NTS

SCALE:	NTS
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DESIGN DATE:	07/29/2021
SHEET:	02

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CRAIG E. GUNDERSON
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STATE OF
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PROFESSIONAL ENGINEER

Craig E. Gunderson, P.E. #60102
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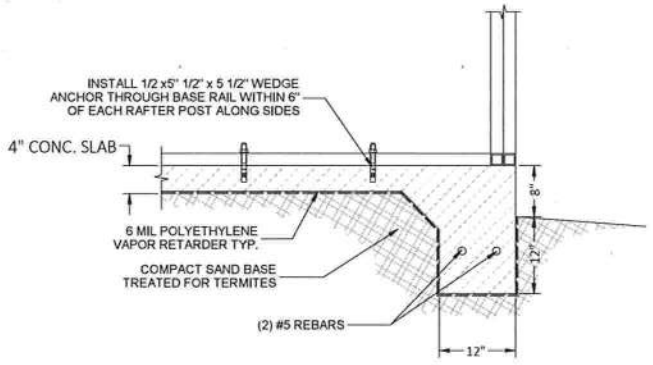


1	CONCRETE MONO SLAB BASE RAIL ANCHORAGE SCALE: NTS

GENERAL NOTES

CONCRETE:

CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.

COVERAGE OF THE REINFORCED STEEL:

FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318: 3 INCHES WHERE THE CONCRETE IS POURED AGAINST AND TEMPORARY IN CONTACT WITH THE EARTH OR UNPROTECTED FROM THE EARTH OR WEATHER, OTHERWISE 1-1/2 INCHES.

CONCRETE NOTE:

ALL OPEN AREAS OF CONCRETE OUTSIDE OF THE PROPOSED STRUCTURE SHALL BE DESIGNED TO SLOPE AWAY FROM THE STRUCTURE

REINFORCING STEEL:

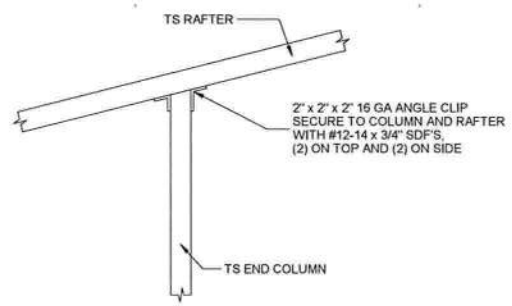
THE TURNDOWN REINFORSING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

REINFORCEMENT MAY BE BENT IN THE FIELD OR SHOP AS LONG AS:

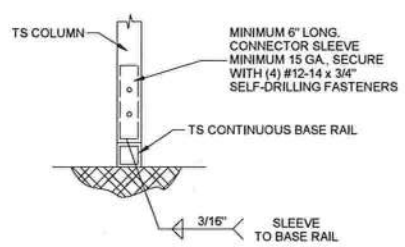
1. IT IS BENT COLD;

2. REINFRCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT;

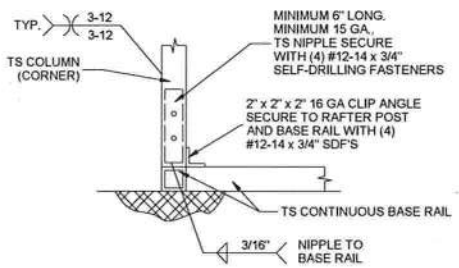
3. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS.



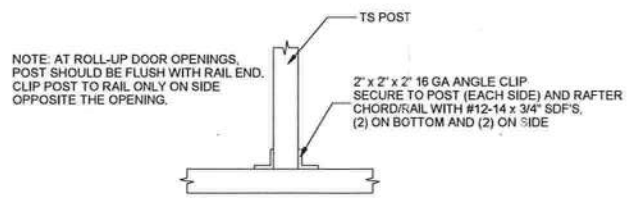
2	END POST/RAFTER CONNECTION DETAIL SCALE: NTS



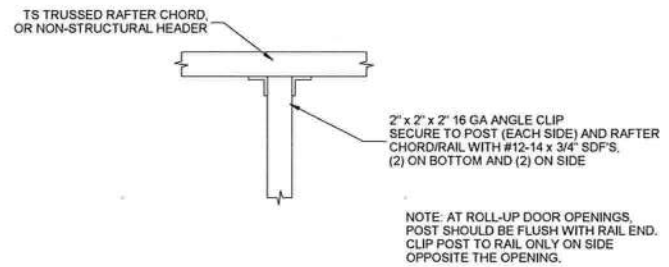
3	RAFTER POST/BASE RAIL CONNECTION DETAIL SCALE: NTS



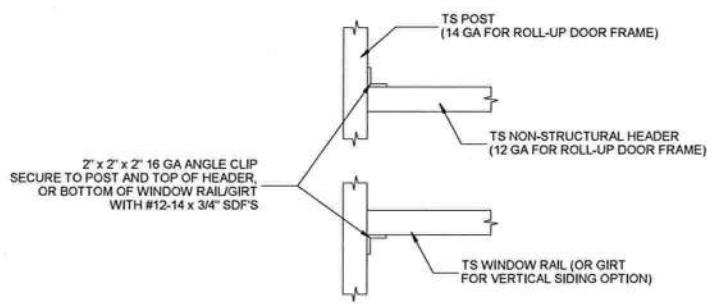
4	END POST/BASE RAIL CONNECTION DETAIL SCALE: NTS



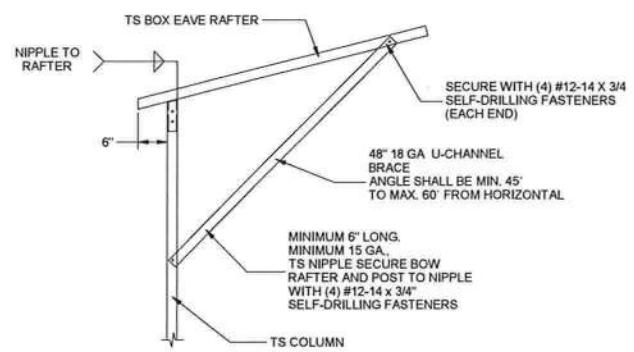
5	POST TO NON-STRUCTURAL HEADER, BASE, RAIL OR WINDOW RAIL CONNECTION DETAIL SCALE: NTS



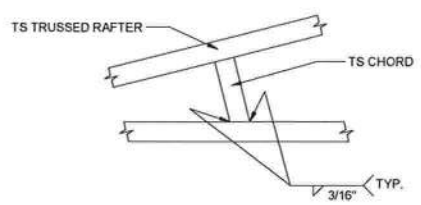
6	POST TO NON-STRUCTURAL HEADER, BASE, RAIL OR WINDOW RAIL CONNECTION DETAIL SCALE: NTS



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



8	BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL SCALE: NTS



9	CHORD/RAFTER CONNECTION DETAIL SCALE: NTS

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