

Fayette County Metal Building Generic Verses Site Specific Plan Requirements:

Generic Plans are not allowed if changes have been made to the plan adding awnings, doors, or windows, changes in building size, etc. Adding pages to the plans is not allowed; the Engineer must approve all changes of record.

Site-Specific Plans must include the following:

CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA – FAYETTE COUNTY GEORGIA										
GROUND SNOW LOAD	WIND SPEED (mph)	SEISMIC DESIGN CATEGORY	SUBJECT TO DAMAGE FROM			WINTER DESIGN TEMP	ICE BARRIER UNDERLAYMENT REQUIRED	FLOOD HAZARDS	AIR FREEZING INDEX	MEAN ANNUAL TEMP
			Weathering	Frost line depth	Termite					
5-psf	115 (3-second gust)	B (Site Class D)	Moderate	5-inches	Very Heavy	22° F	No	(a) June 12, 1983 (b) March 18, 1996 (c) Sept. 26, 2008	67° F-Days	62.2° F

- Fayette County Current Codes
- Name and address of installation
- **Georgia Engineer Seal and signature of the engineer on each sheet of plans.**
- All imposed design loads, both dead and live, including equipment load
- Seismic design data including seismic importance factor, SS and S1 values, spectral response coefficients SDS and SD1 seismic design category, seismic force-resisting system, and design base shear, response modification factor used (R), and analysis procedure used.
- Wind design data include essential wind speed, wind importance factor, wind exposure, internal pressure coefficient, components and cladding, and analysis procedure.
- ASTM number, yield stress, and allowable stress of all structural steel members.
- All loads imposed on the foundation, both vertical and lateral.
- Notation indicating all welding performed by welders qualified in accordance with AWS standards and all welds conformed to AISC standards
- All elevations; front, rear, and side, including the location of doors, windows, porches, openings, walls, etc.
- Framing details- all fenestrations must be correct and scaled to size
- Cross sections
- Wall sections
- Floor and roof details
- Define all members and connections for built-up sections
- Connections of all structural members (showing all welds and bolt sizes and locations)
- Types of construction materials

Special Inspections are required for high strength bolting, material verification of steel, an inspection of welding, and inspection of the steel frame details (such as bracing and stiffening member locations and application of joint details at each connection).

Where fabrication of structural load-bearing members and assemblies is being performed on the premises of a fabricator's shop, special inspection shall be required. Special inspections shall not be required where the fabricator is approved and audited by a nationally recognized accrediting authority such as AISC, IAS, etc. As noted above, special inspections are required for field assembly or erection of the steel building.



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Professional Certification.
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 49744, Expiration Date **8 8 22**

DRAWING INDEX

SHEET 1	FRONT SEAL COVER SHEET
SHEET 2	DRAWING INDEX
SHEET 3A	INSTALLATION NOTES AND SPECIFICATIONS
SHEET 3B	TYPICAL SIDE AND END ELEVATIONS
SHEET 3C	TYPICAL SIDE AND END ELEVATIONS
SHEET 4	TYPICAL RAFTER/COLUMN FRAME AND SIDE FRAMING SECTION (BOX EAVE STRUCTURE)
SHEET 4A	TYPICAL RAFTER/COLUMN FRAME AND SIDE FRAMING SECTION (BOX EAVE STRUCTURE)
SHEET 4B	TYPICAL RAFTER/COLUMN FRAME AND SIDE FRAMING SECTION (BOX EAVE STRUCTURE)
SHEET 4C	TYPICAL RAFTER/COLUMN FRAME AND SIDE FRAMING SECTION (BOX EAVE STRUCTURE)
SHEET 5	COLUMN CONNECTION DETAILS (BOX EAVE STRUCTURE)
SHEET 6	COLUMN CONNECTION DETAILS (BOX EAVE STRUCTURE)
SHEET 7	BASE RAIL ANCHORAGE OPTIONS
SHEET 7A	BASE RAIL ANCHORAGE OPTIONS
SHEET 8	TYPICAL END WALL AND SIDE WALL FRAMING SECTIONS
SHEET 8A	TYPICAL END WALL AND SIDE WALL FRAMING SECTIONS
SHEET 9	CONNECTION DETAILS
SHEET 10	CONNECTION DETAILS
SHEET 10A	CONNECTION DETAILS
SHEET 11	LEAN-TO OPTIONS
SHEET 11A	LEAN-TO OPTIONS
SHEET 11B	LEAN-TO OPTIONS
SHEET 12	VERTICAL ROOF/SIDING OPTION END AND SIDE ELEVATION AND SECTION
SHEET 12A	VERTICAL ROOF/SIDING OPTION END AND SIDE ELEVATION AND SECTION

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		SHT. 2	DWG. NO: SK-3	REV: 2
				18315S/19179S/

INSTALLATION NOTES AND SPECIFICATIONS

1. DESIGN IS FOR MAXIMUM 30'-0" WIDE x 16'-0" EAVE HEIGHT ENCLOSED STRUCTURES.
2. DESIGN WAS DONE IN ACCORDANCE WITH THE 2018 NORTH CAROLINA BUILDING CODE, 2009 INTERNATIONAL BUILDING CODE (IBC), 2012 IBC, 2015 IBC AND 2018 IBC.
3. DESIGN LOADS ARE AS FOLLOWS:
 - A) DEAD LOAD = 1.5 PSF
 - B) LIVE LOAD = 10 PSF
 - C) GROUND SNOW LOAD = 35 PSF
= 30 PSF @ 24'-0" WITH U-CHANNEL COLLAR TIE

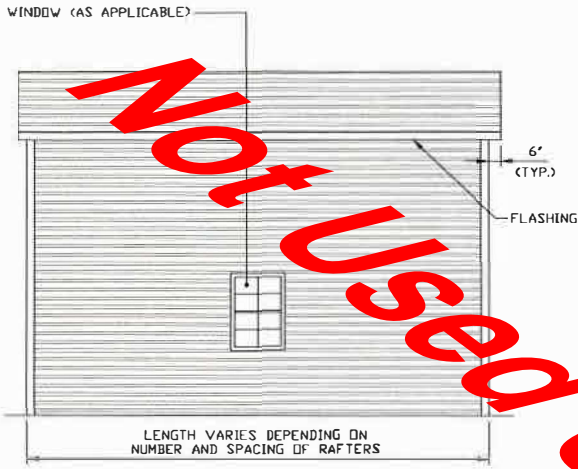
NOT UNBALANCED SNOW LOADS DUE TO DRIFTING HAVE NOT BEEN EVALUATED.
4. 3-SECOND GUST ULTIMATE WIND SPEED (V₃) 105 TO 145 MPH (NOMINAL WIND SPEED 82 TO 112 MPH).
5. MAXIMUM RAFTER/COLUMN AND END COLUMN SPACING = 5.0 FEET (UNLESS NOTED OTHERWISE).
6. SIDEWALL COLUMNS AND ENDWALL COLUMNS ARE SIMILAR IN SIZE, UNLESS NOTED OTHERWISE.
7. RISK CATEGORY I.
8. WIND EXPOSURE CATEGORY B.
9. SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/2" x 2 1/2" - 14 GAUGE TUBE STEEL (TS) FRAMING MEMBERS (UNLESS NOTED OTHERWISE).
10. AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR HAT CHANNELS, AND COLUMNS (INTERIOR OR END) = 9 INCHES.
11. FASTENERS CONSIST OF #12-14x3/4" SELF-DRILLING FASTENER (SDF), USE CONTROL SEAL WASHER WITH EXTERIOR FASTENERS. SPECIFICATIONS APPLICABLE ONLY FOR MEAN ROOF HEIGHT OF 16 FEET OR LESS AND ROOF SLOPES OF 14° (3:12 PITCH) OR LESS SPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY VARY.
12. ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6" OF EACH COLUMN.
13. STANDARD GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 REBAR W/WELDED 18" LONG SOIL NAILS MAY BE USED FOR WIND SPEEDS < 145 MPH AND IN SUITABLE SOIL CONDITIONS. OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USED FOR WIND SPEEDS > 145 MPH AND/OR IN SUITABLE SOILS AS NOTED.
14. WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE:
 - SOIL SITE CLASS = D
 - RISK CATEGORY I
 - R= 3.25
 - S_{ps}= 2.039
 - S_{pl}= 1.258

Not Approved

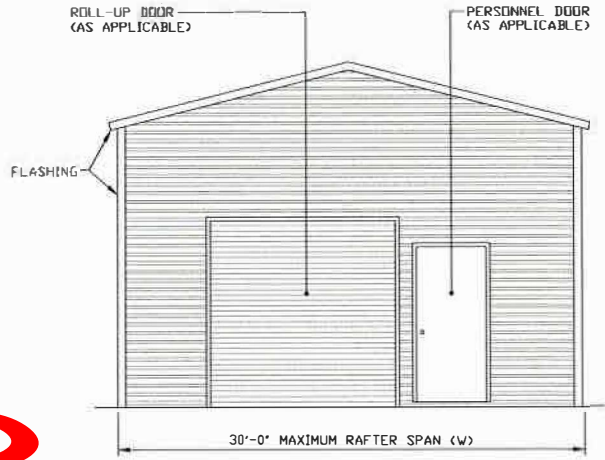
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SAMPLE GENERIC PLANS- NO ALTERATIONS ALLOWED UNLESS APPROVED BY ENGINEER OF RECORD

BOX EAVE FRAME RAFTER STRUCTURE



TYPICAL SIDE ELEVATION
SCALE: NTS



TYPICAL END ELEVATION
SCALE: NTS

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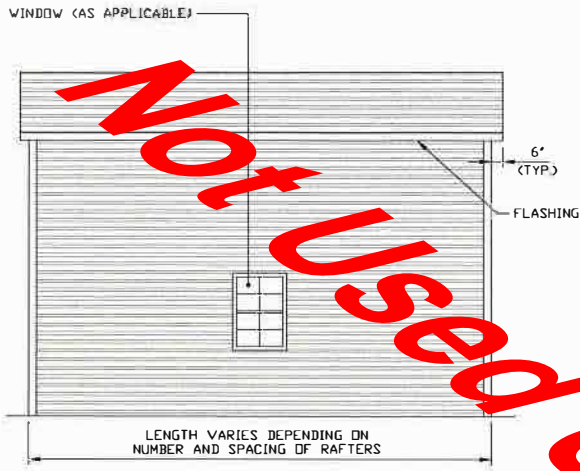
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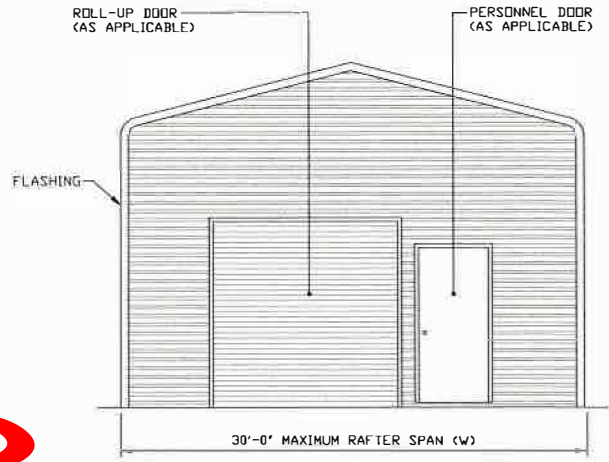
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SAMPLE GENERIC PLANS- NO ALTERATIONS ALLOWED UNLESS APPROVED BY ENGINEER OF RECORD

BOW EAVE FRAME RAFTER STRUCTURE



TYPICAL SIDE ELEVATION
SCALE: NTS



TYPICAL END ELEVATION
SCALE: NTS

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30'-0"x16'-0" ENCLOSED STRUCTURE

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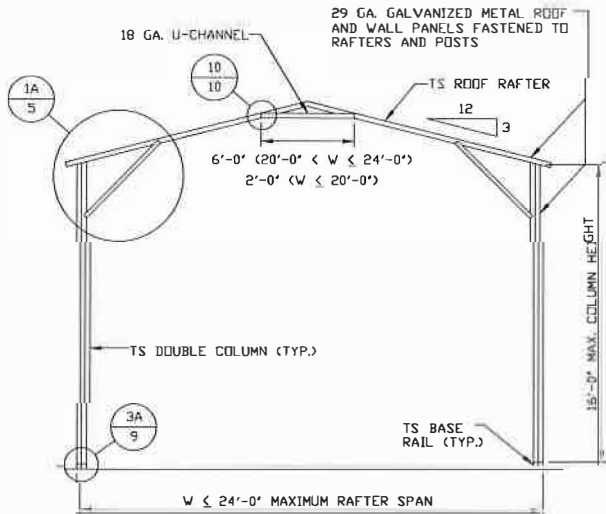
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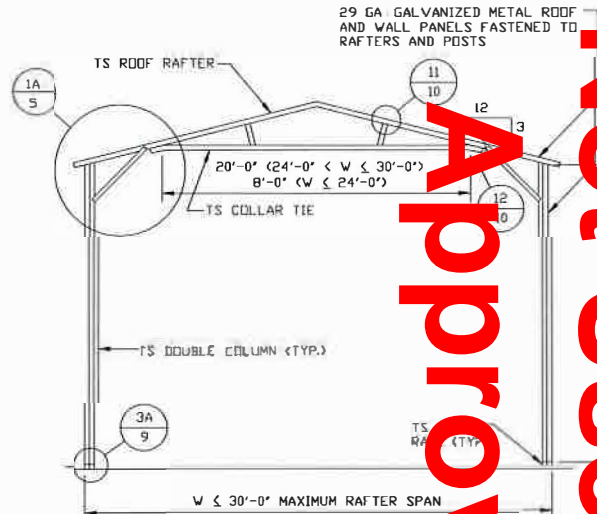
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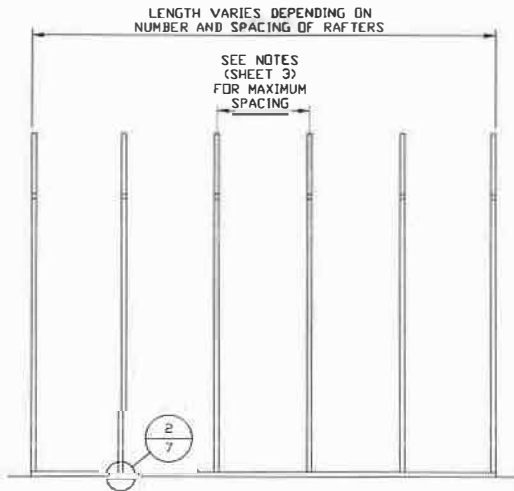
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TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS



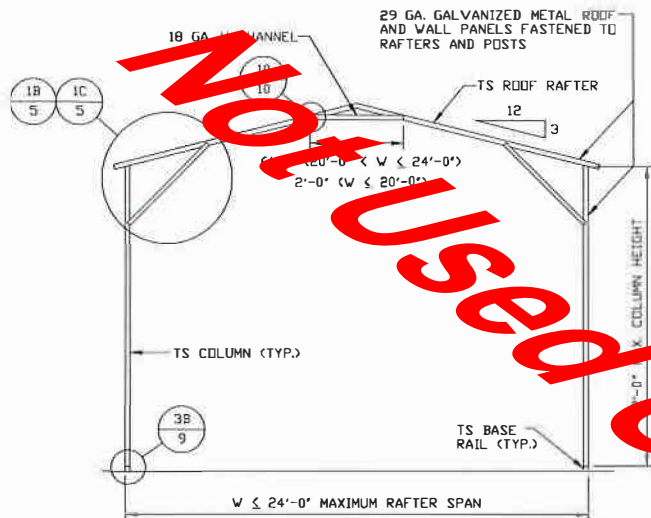
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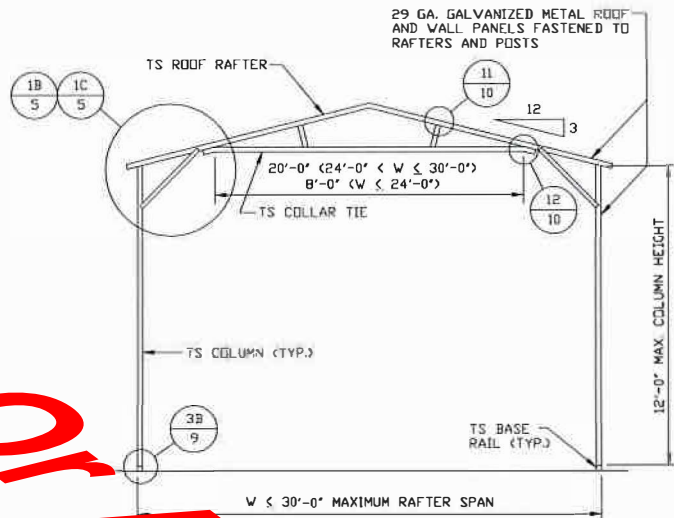
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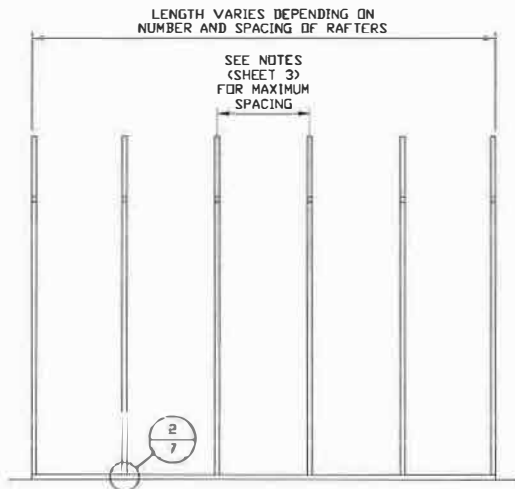
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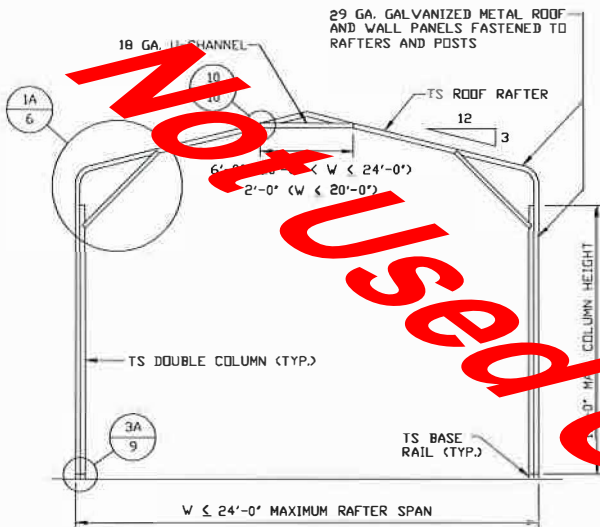


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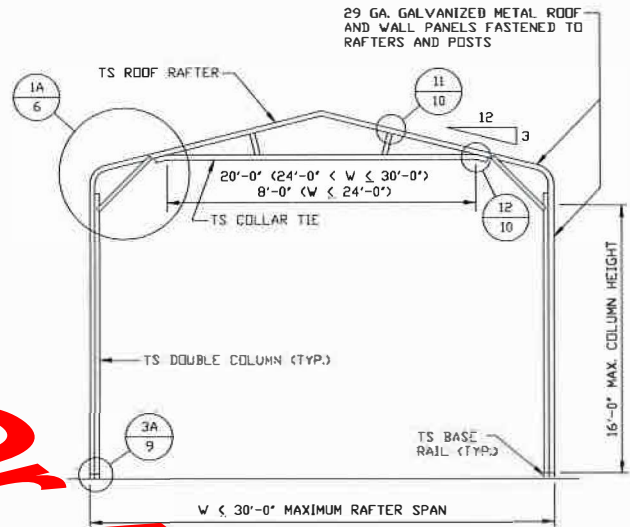


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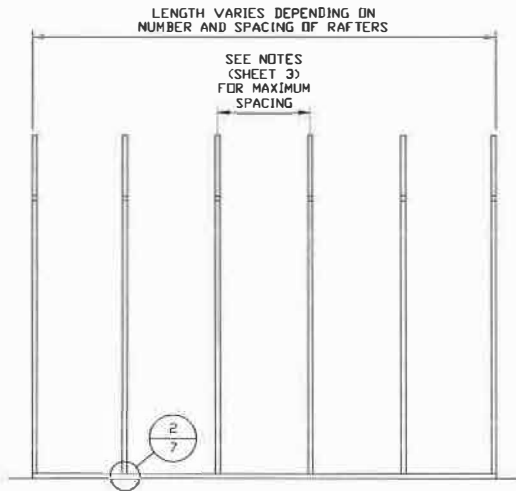
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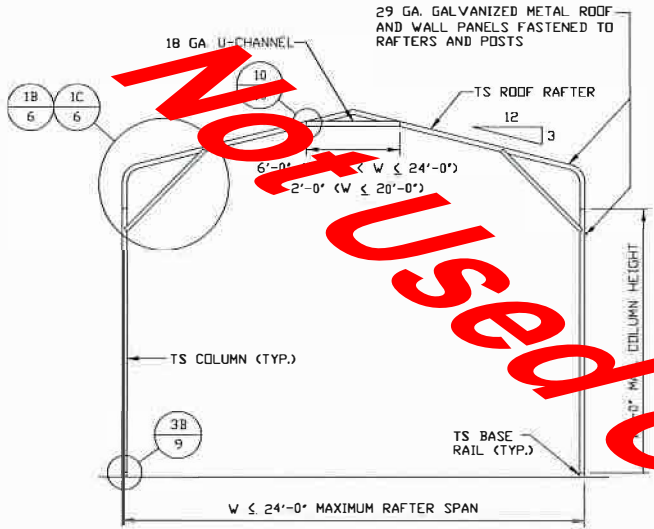


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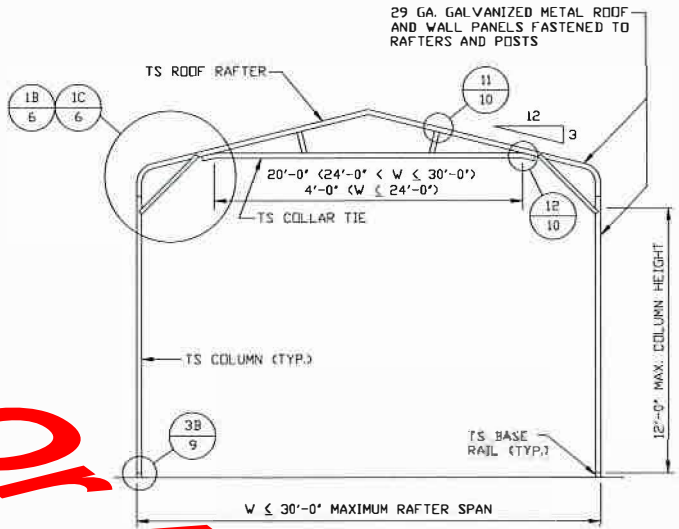


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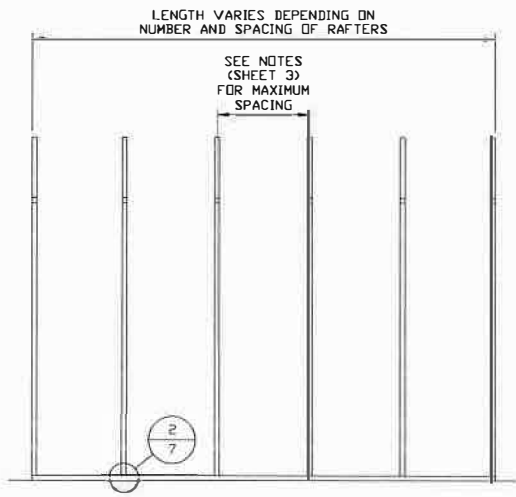
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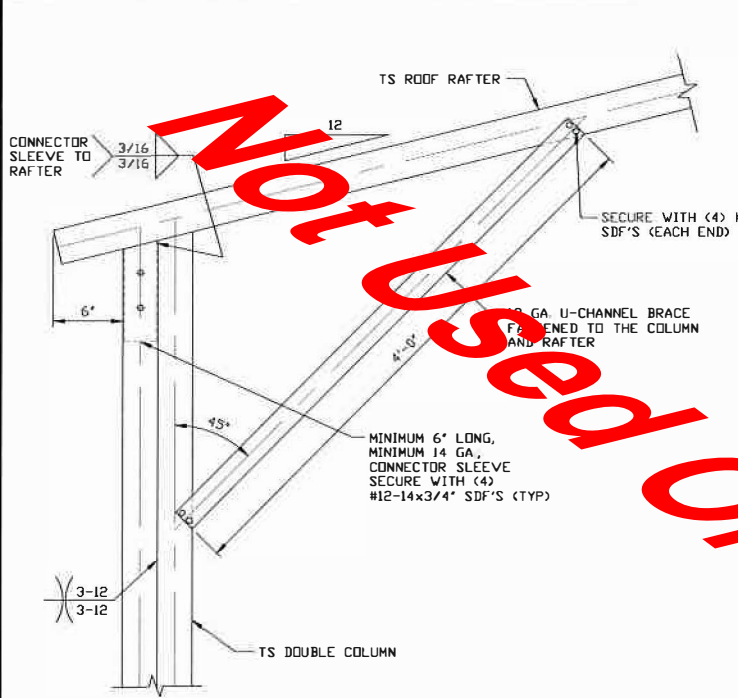
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TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
SCALE: NTS

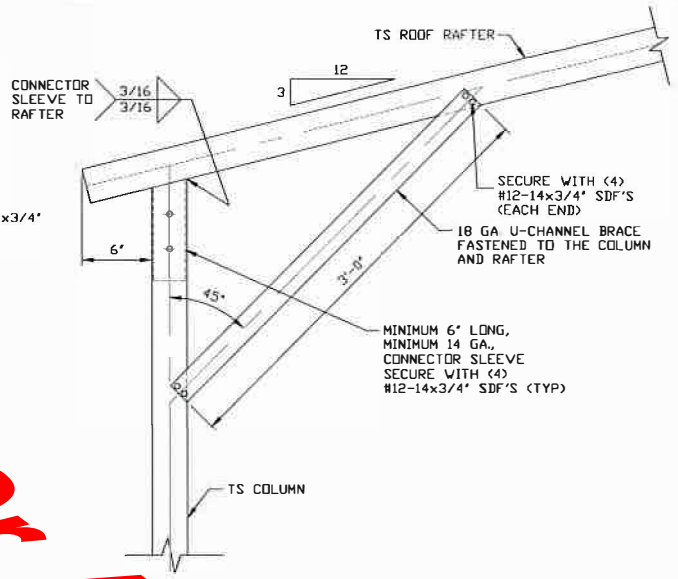
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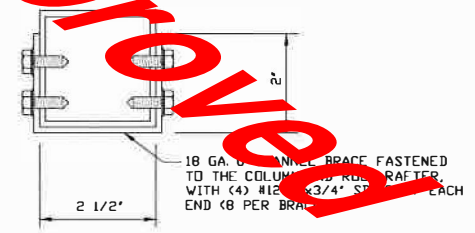


1A

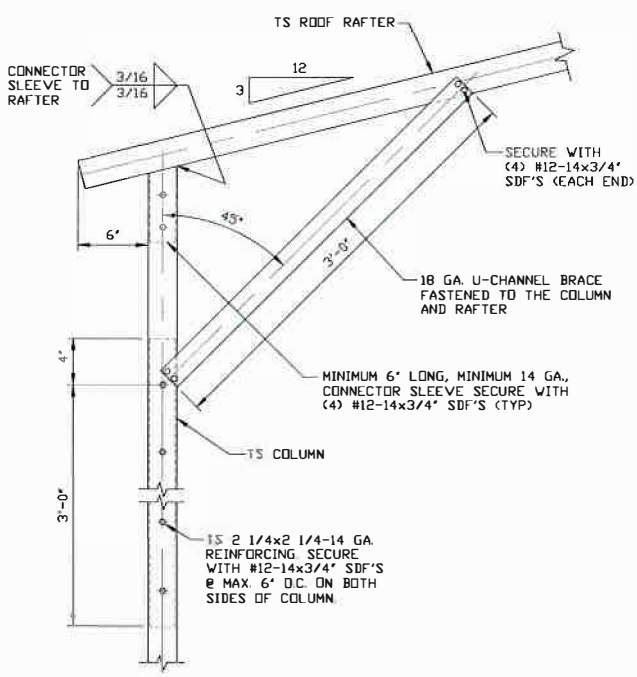
BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 12'-0" < TO <= 16'-0"
SCALE: NTS



BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS <= 10'-0"
SCALE: NTS

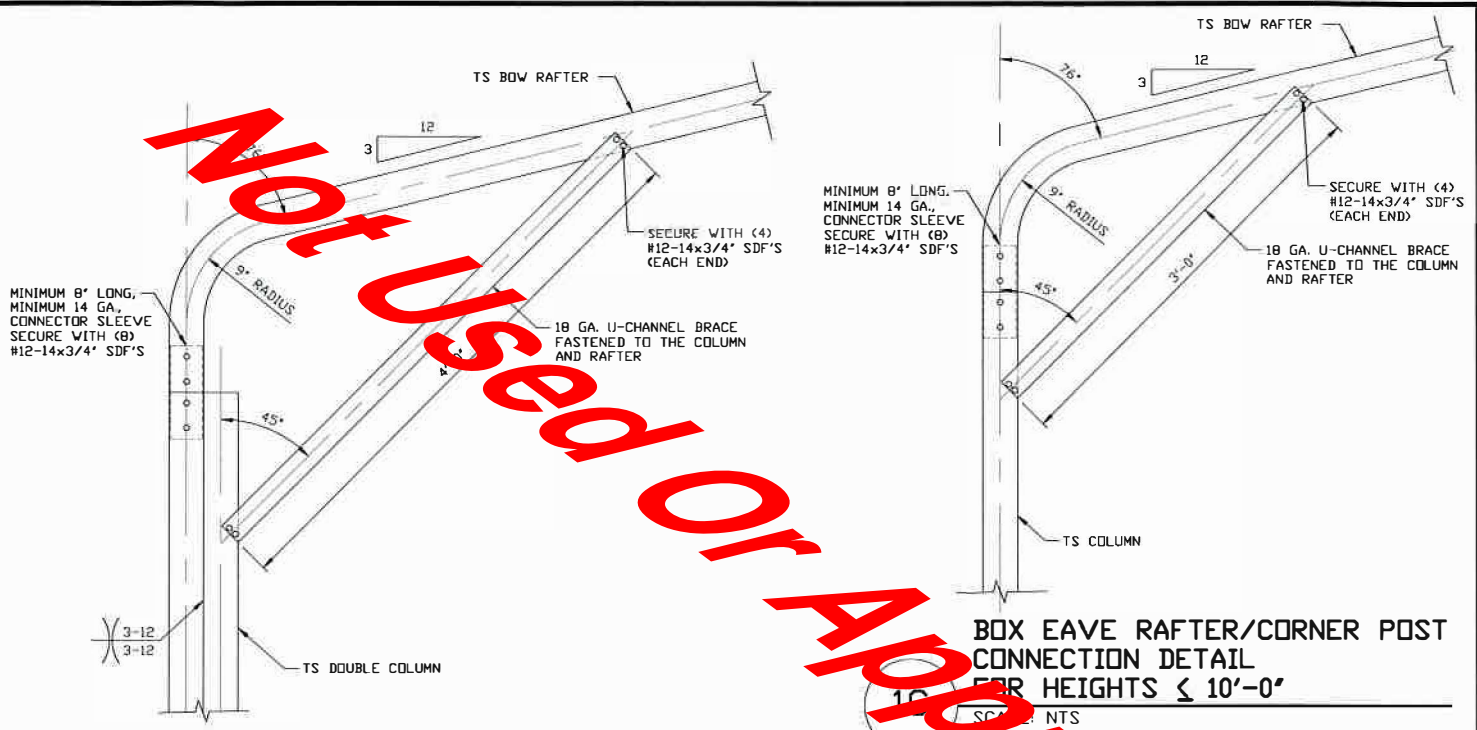


BRACE SECTION
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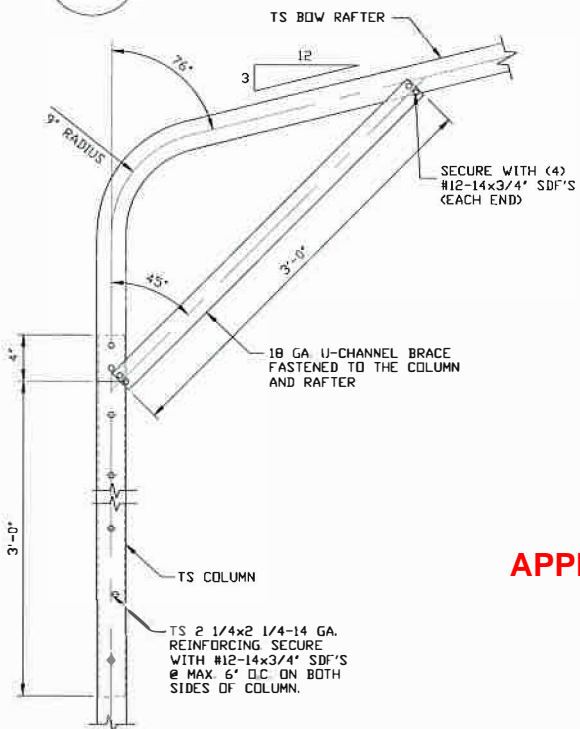


BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 10'-0" < TO <= 12'-0"
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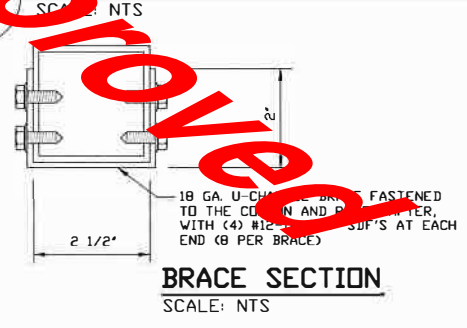


1A
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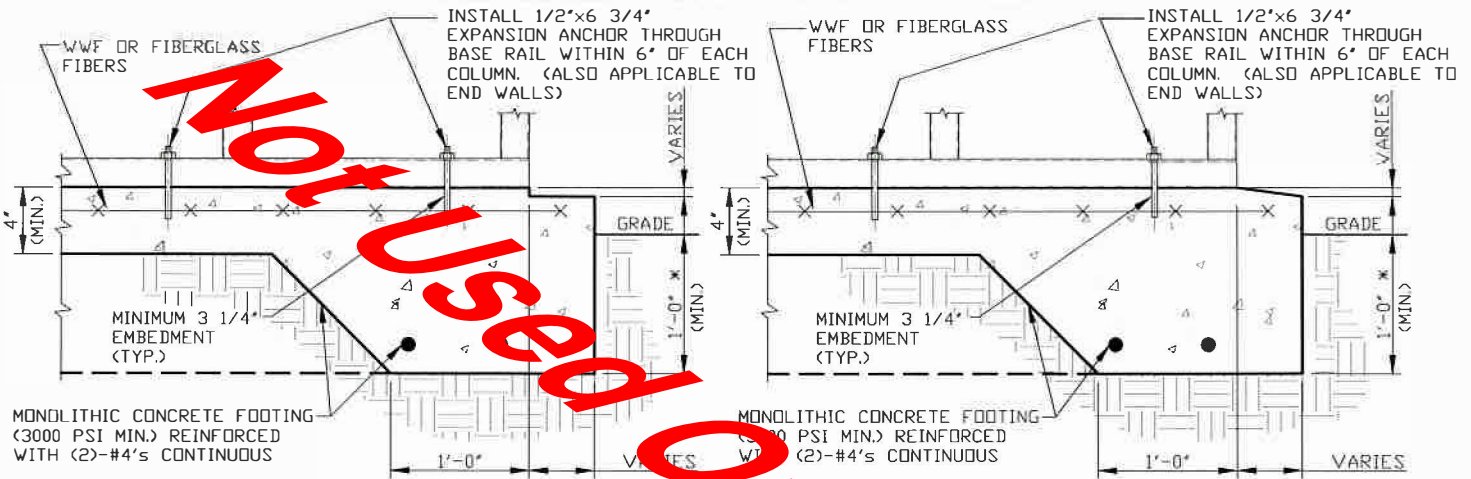
BOW RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 10'-0" < TO ≤ 12'-0"
 SCALE: NTS

BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS ≤ 10'-0"
 SCALE: NTS



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BASE RAIL ANCHORAGE OPTIONS



2A

CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

SCALE: NTS
MINIMUM ANCHOR EDGE DISTANCE IS 4".
* COORDINATE WITH LOCAL BUILDING CODE AND/OR DGD REGARDING MINIMUM FROST DEPTH (LENGTH).

2B

CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

SCALE: NTS
MINIMUM ANCHOR EDGE DISTANCE IS 4".
* COORDINATE WITH LOCAL BUILDING CODE AND/OR DGD REGARDING MINIMUM FROST DEPTH (LENGTH).

GENERAL NOTES

NOTE: CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 1,500 PSF.

CONCRETE:

CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS.

COVER OVER REINFORCING STEEL:

FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318:
3" IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH OR WEATHER, AND 1 1/2" ELSEWHERE.

REINFORCING STEEL:

THE TURNDOWN REINFORCING 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 SHOP OR THE FIELD PROVIDED:

1. REINFORCEMENT IS BENT COLD.
2. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS.
3. 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, USE MINIMUM (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINGLE 6" HELIX WITH MINIMUM 50" EMBEDMENT.
2. FOR CORAL USE MINIMUM (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINGLE 6" HELIX WITH MINIMUM 50" EMBEDMENT.
3. FOR MEDIUM DENSE COARSE SANDS, SANDY GRAVELS, VERY STIFF SILTS, AND CLAYS USE MINIMUM (2) 4" HELICES WITH MINIMUM 30 INCH EMBEDMENT OR SINGLE 6" HELIX WITH MINIMUM 50" EMBEDMENT.
4. FOR LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS ALLUVIAL FILL, USE MINIMUM (2) 6" HELICES WITH MINIMUM 50" EMBEDMENT.
5. FOR VERY LOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER CLAYS AND SILTS, ALLUVIAL FILL, USE MINIMUM (2) 8" HELICES WITH MINIMUM 60" EMBEDMENT.

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30'-0" x 16'-0" ENCLOSED STRUCTURE

DATE: 7-2-20

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18315S/19179S/
JOB NO: 20176S

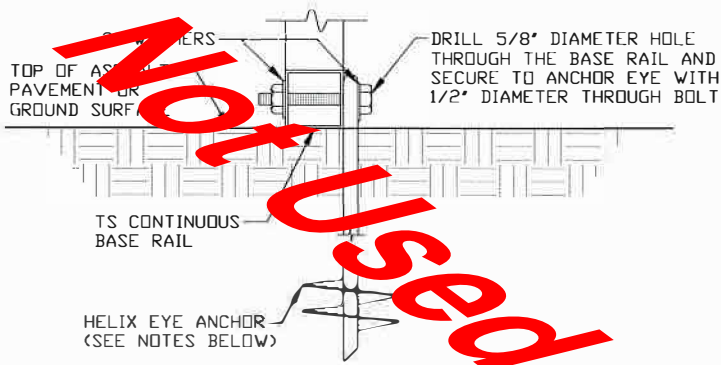
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REV: 2

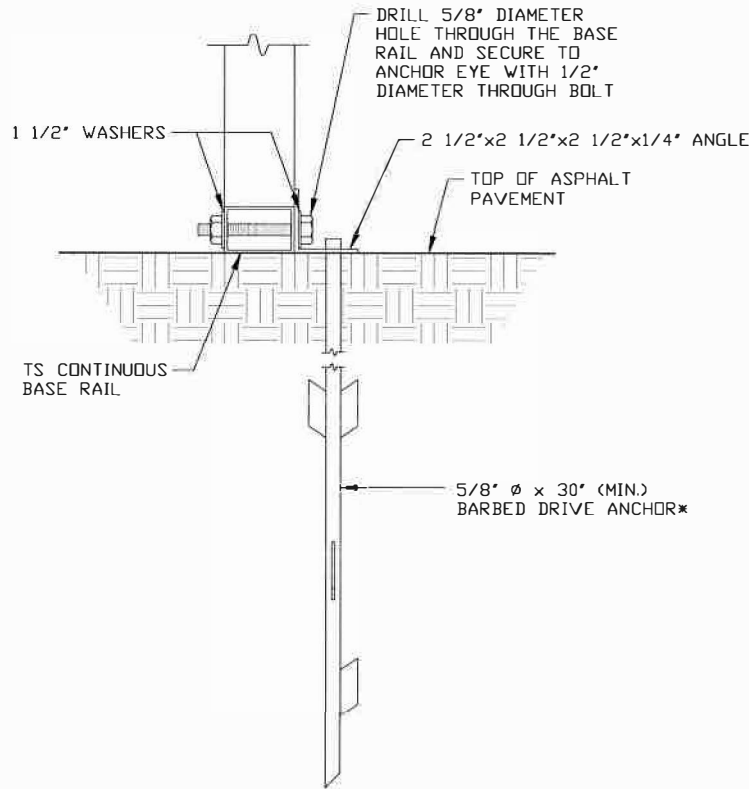
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BASE RAIL ANCHORAGE OPTIONS



2C GROUND BASE HELIX ANCHORAGE
SCALE: NTS
(CAN BE USED FOR ASPHALT)

* COORDINATE WITH LOCAL BUILDING CODE AND/OR D REGARDING MINIMUM FROST DEPTH (LENGTH).

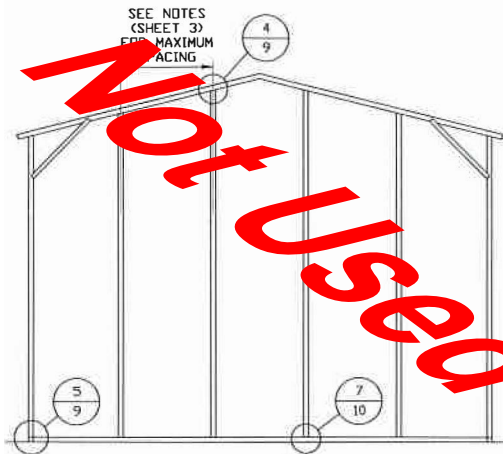


2D ASPHALT BASE ANCHORAGE
SCALE: NTS

* COORDINATE WITH LOCAL BUILDING CODE AND/OR D REGARDING MINIMUM FROST DEPTH (LENGTH).

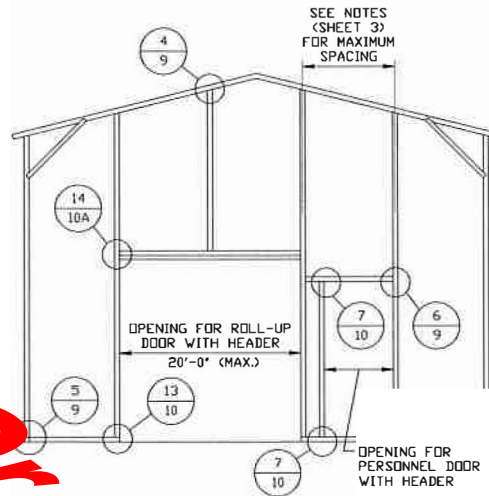
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BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



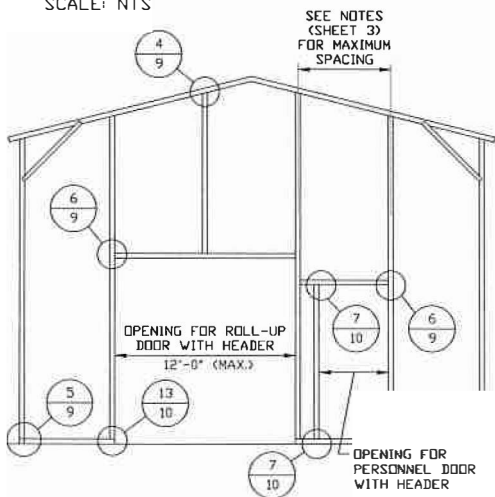
TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

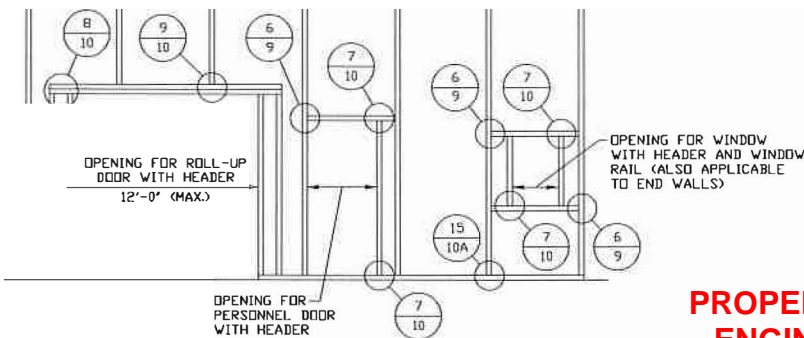
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TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS

TS ROOF RAFTER/
COLUMN ASSEMBLY

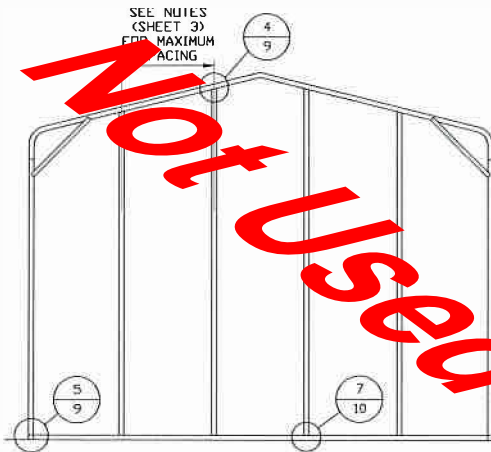


TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

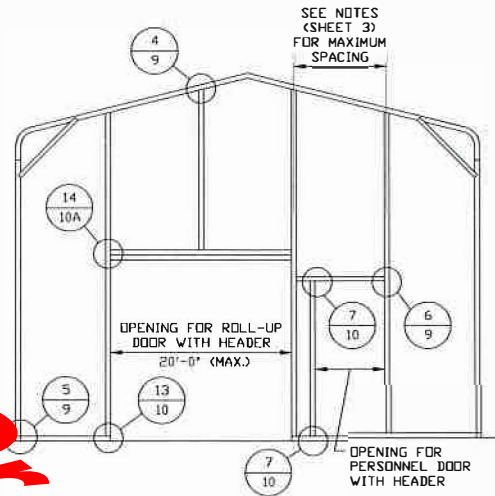
SCALE: NTS

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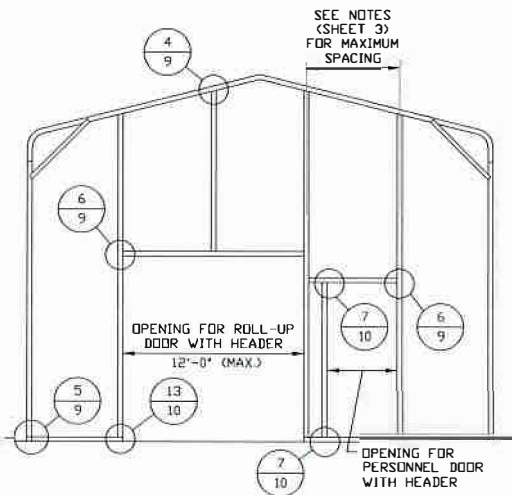
BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



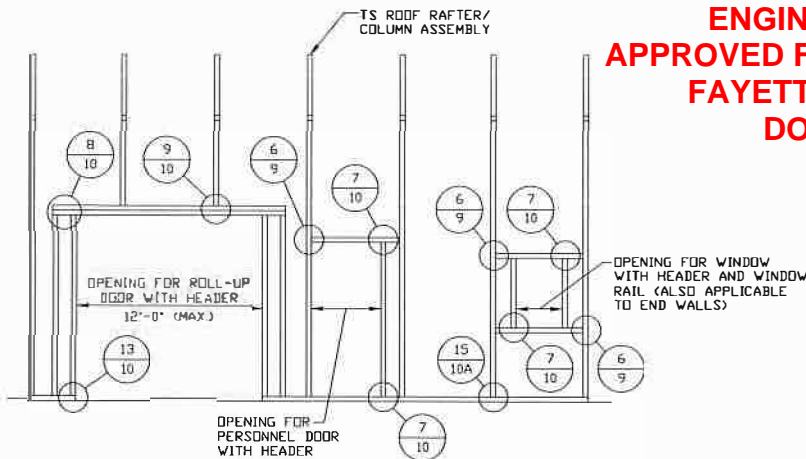
TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION
SCALE: NTS



TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION
SCALE: NTS



TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION
SCALE: NTS

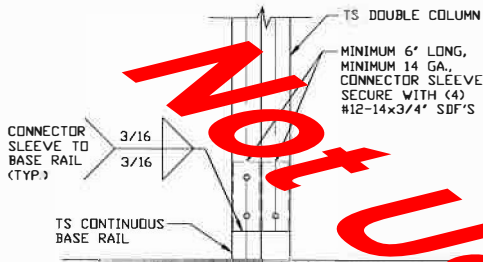


TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION
SCALE: NTS

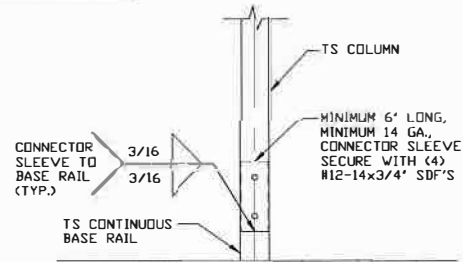
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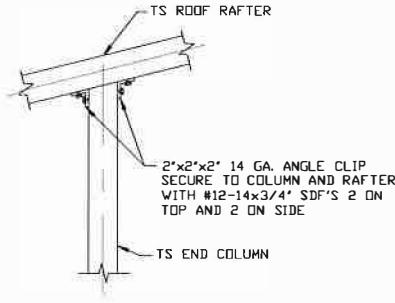
CONNECTION DETAILS



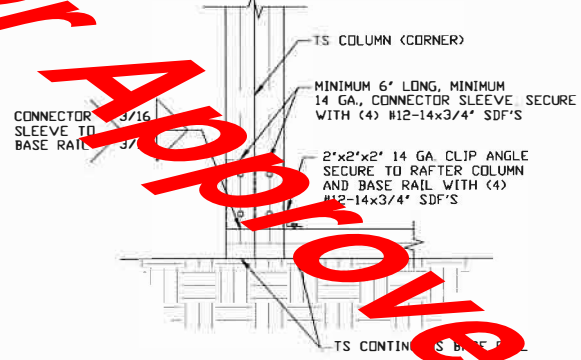
3A POST/BASE RAIL CONNECTION DETAIL
SCALE: NTS



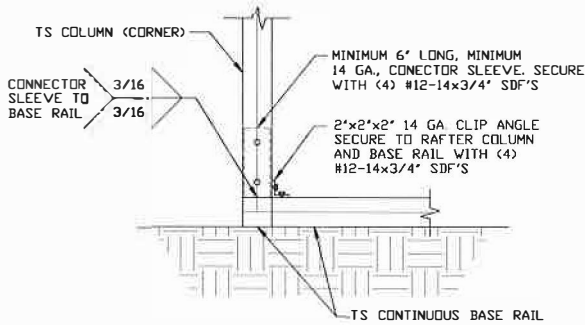
3B POST/BASE RAIL CONNECTION DETAIL
SCALE: NTS



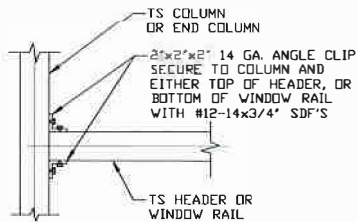
4 END COLUMN/RAFTER CONNECTION DETAIL
SCALE: NTS



5A END COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



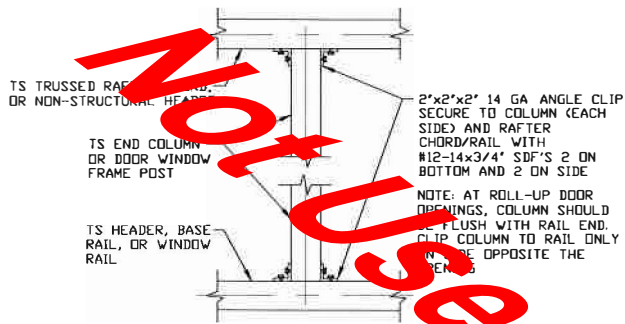
5B END COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



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

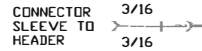
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CONNECTION DETAILS



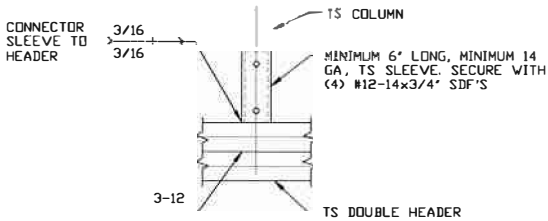
7 COLUMN TO HEADER, BASE RAIL, OR WINDOW RAIL CONNECTION DETAIL

SCALE: NTS



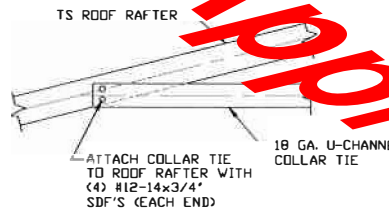
8 DOUBLE HEADER/COLUMN CONNECTION DETAIL

SCALE: NTS



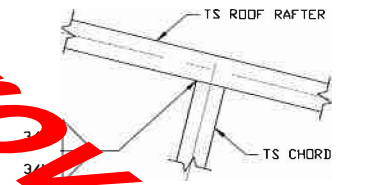
9 COLUMN/DOUBLE HEADER CONNECTION DETAIL

SCALE: NTS



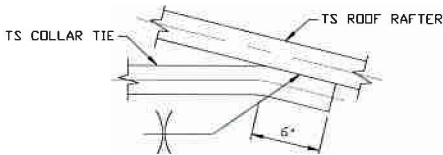
10 COLLAR TIE CONNECTION DETAIL

SCALE: NTS



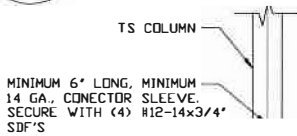
11 RAFTER TO CHORD CONNECTION DETAIL

SCALE: NTS



12 COLLAR TIE CONNECTION DETAIL

SCALE: NTS



13 COLUMN/BASE RAIL CONNECTION DETAIL

SCALE: NTS

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CHECKED BY: PH

30'-0" x 10'-0" ENCLOSED 3 TRUSS LAYOUT

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DATE: 7-2-20

SCALE: NTS

JOB NO: 20176S

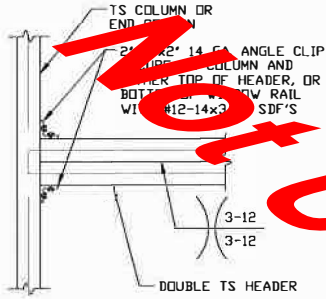
18315S/19179S/

SHT. 10

DWG. NO: SK-3

EV: 2

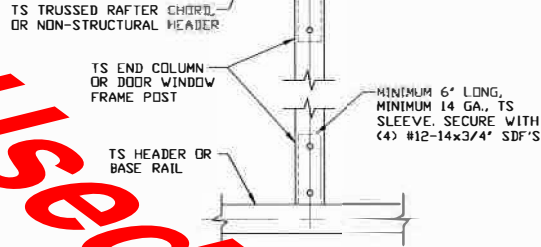
CONNECTION DETAILS



DOUBLE HEADER TO COLUMN CONNECTION DETAIL

14

SCALE: NTS



COLUMN TO HEADER OR BASE RAIL CONNECTION DETAIL

15

SCALE: NTS

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30'-0" x 16'-0" ENCLOSURE STRUCTURE

PROJECT MGR:

DATE: 7-2-20

SCALE: NTS

JOB NO: 18315S/19179S/
20176S

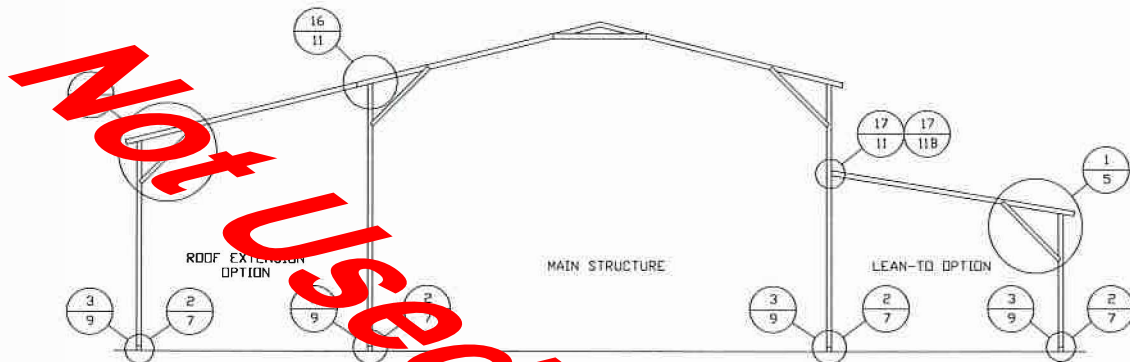
SHT. 10A

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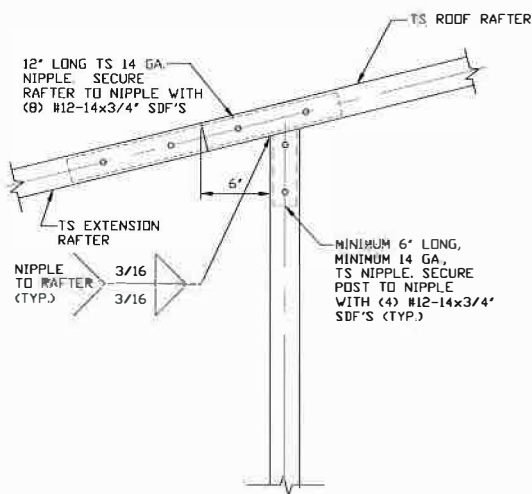
BOX EAVE RAFTER LEAN-TO OPTIONS



TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)

SCALE: NTS

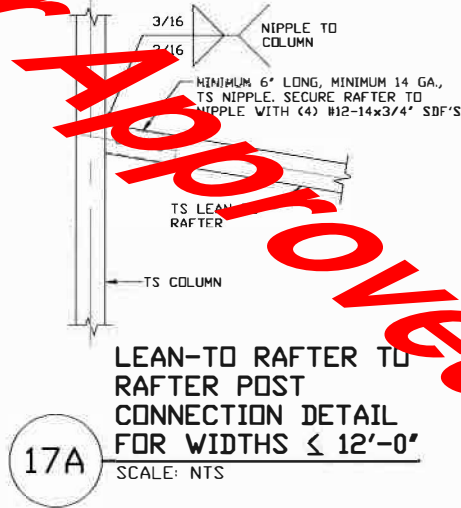
MAXIMUM WIDTH OF SINGLE MEMBER ROOF EXTENSION AND LEAN-TO OPTION IS 12'-0".
 MAXIMUM WIDTH OF DOUBLE MEMBER ROOF EXTENSION AND LEAN-TO OPTION IS 16'-0".



16

ROOF EXTENSION RAFTER/CORNER POST DETAIL FOR WIDTHS $\leq 12'-0"$

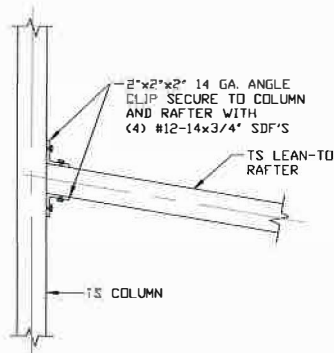
SCALE: NTS



17A

LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS $\leq 12'-0"$

SCALE: NTS

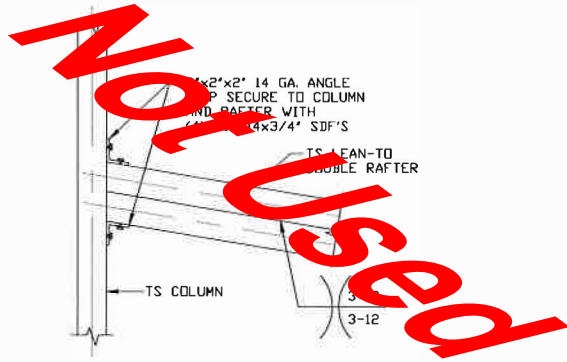


LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS $\leq 12'-0"$

SCALE: NTS

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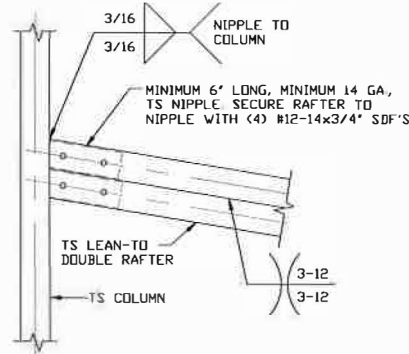
BOX EAVE RAFTER LEAN-TO OPTIONS



LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS 12'-0" < TO ≤ 16'-0"

17C

SCALE: NTS



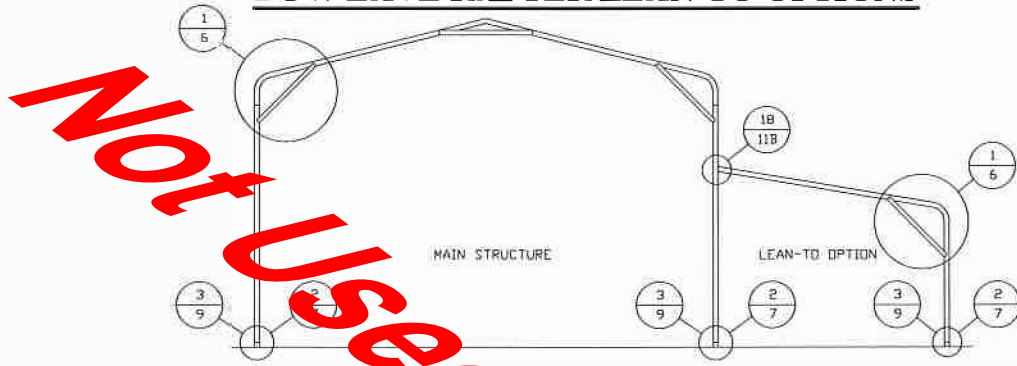
LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS 12'-0" < TO ≤ 16'-0"

17D

SCALE: NTS

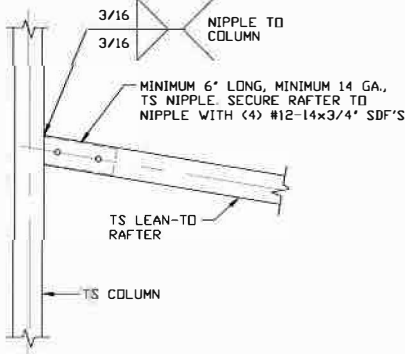
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BOW EAVE RAFTER LEAN-TO OPTIONS



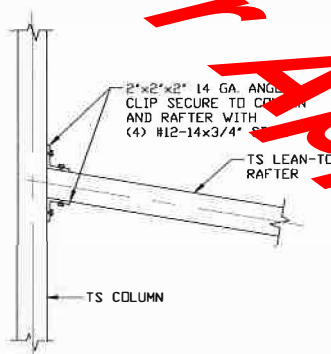
TYPICAL BOW EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION

SCALE: NTS
 MAXIMUM WIDTH OF SINGLE MEMBER LEAN-TO OPTION IS 12'-0".
 MAXIMUM WIDTH OF DOUBLE MEMBER LEAN-TO OPTION IS 16'-0".



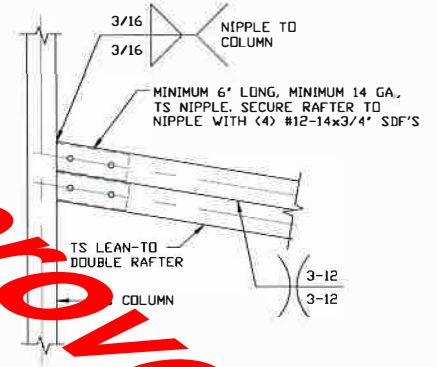
18A LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS $\leq 12'-0"$

SCALE: NTS



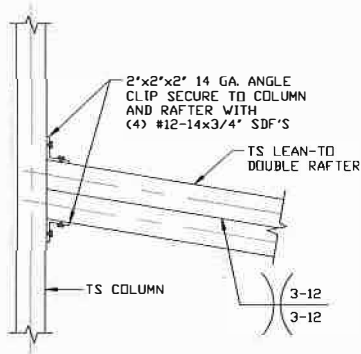
18B LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS $\leq 12'-0"$

SCALE: NTS



18C LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS $12'-0" < TO \leq 16'-0"$

SCALE: NTS



18D LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS $12'-0" < TO \leq 16'-0"$

SCALE: NTS

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DATE: 7-2-20

SHT. 11B

SCALE: NTS

DWG. NO: SK-3

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 JOB NO: 20176S

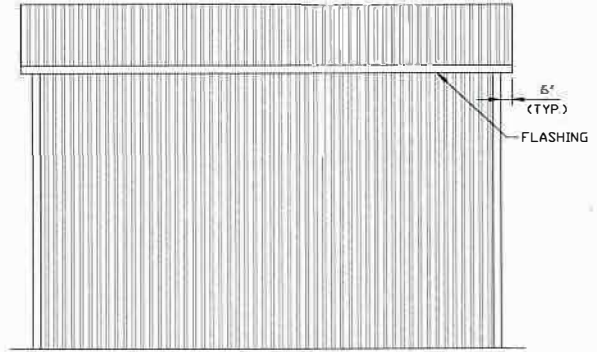
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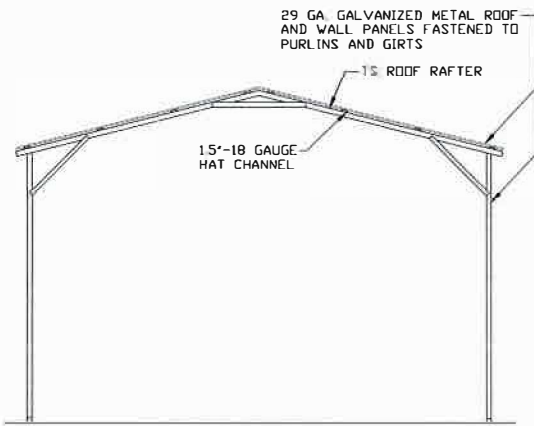
BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



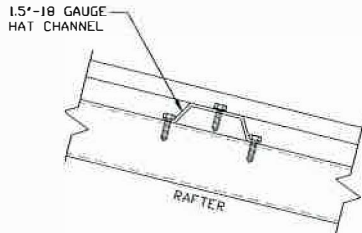
**TYPICAL END ELEVATION
VERTICAL ROOF/SIDING**
SCALE: NTS



**TYPICAL SIDE ELEVATION
VERTICAL ROOF/SIDING**
SCALE: NTS



**TYPICAL SECTION
VERTICAL ROOF/SIDING OPTION**
SCALE: NTS



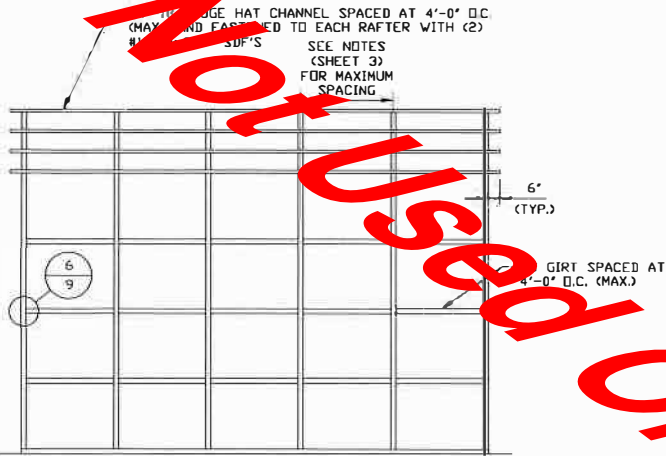
PANEL ATTACHMENT
(ALTERNATE FOR VERTICAL ROOF PANELS)
SCALE: NTS

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BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



**TYPICAL FRAMING SECTION
VERTICAL ROOF/SIDING OPTION
WITH TS GIRTS**

SCALE: NTS

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20176S

SHT. 12A

DWG. NO: SK-3

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