

STRUCTURAL DESIGN

ENCLOSED BUILDING

MAXIMUM 30'- 0" WIDE X 14'- 0" EAVE HEIGHT BOX EAVE FRAME AND BOW FRAME

17 July 2017 Revision 0 M&A Project No. 17168S

Prepared for:

Lear Metal Carports, LLC 253 Bowtie Lane Low Gap, NC 27024

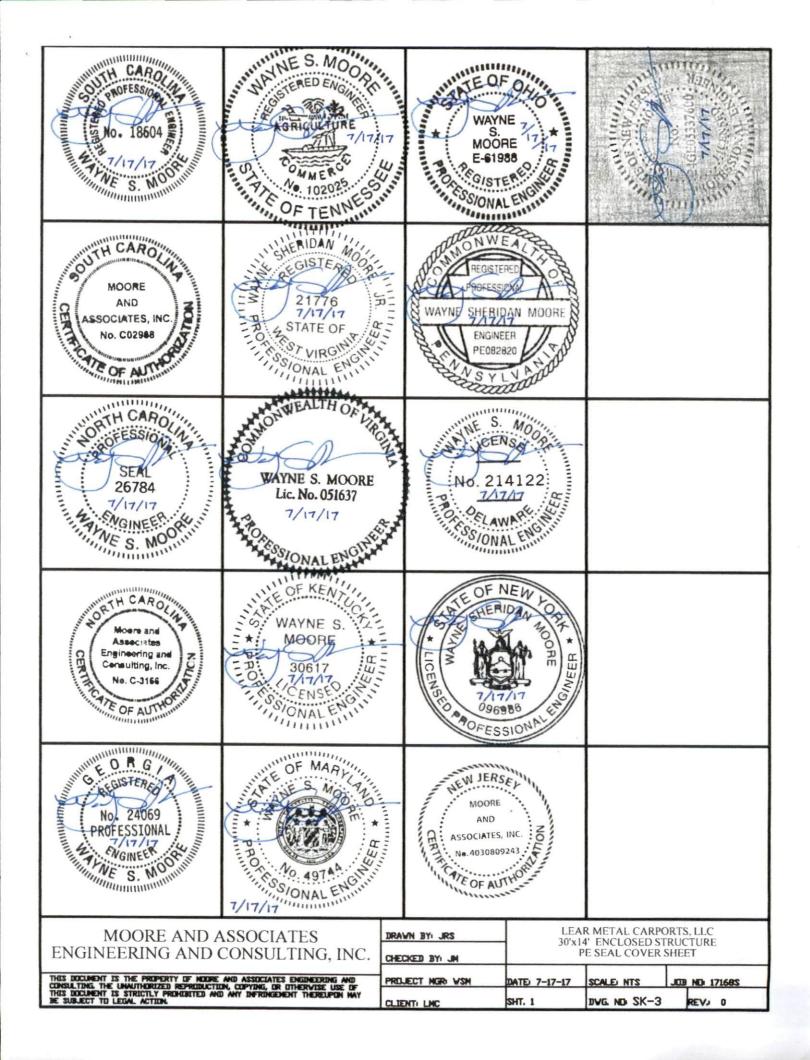
Prepared by:

Moore and Associates Engineering and Consulting, Inc.

1009 East Avenue North Augusta, SC 29841

> 401 S. Main Street Mt. Airy, NC 27030



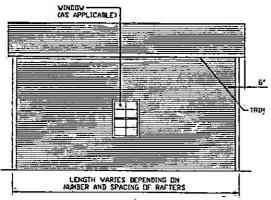


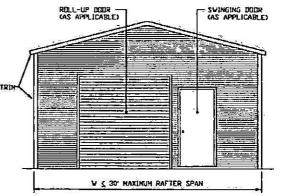
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BOX EAVE FRAME RAFTER STRUCTURE (Sheets 3, 4, 5, 6, 11, AND 17)

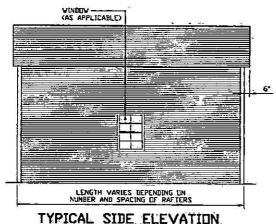


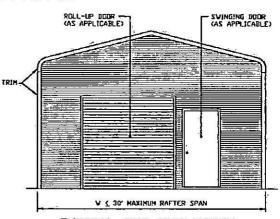


<u>TYPICAL SIDE ELEVATION-HORIZONTAL ROOF</u>

TYPICAL END ELEVATION-HORIZONTAL ROOF SCALE: NTS

BOW FRAME RAFTER STRUCTURE (Sheets 7, 8, 9, 12, AND 16)





SIDE ELEVATION

TYPICAL SCALE: NTS END ELEVATION

INSTALLATION NOTES AND SPECIFICATIONS

- 1. DESIGN IS FOR MAXIMUM 30' WIDE x 14' EAVE HEIGHT ENCLOSED STRUCTURES.
- 2. DESIGN WAS DONE IN ACCORDANCE WITH THE 2012 NORTH CARDLINA BUILDING CODE. 2006 INTERNATIONAL BUILDING CODE (IBC), 2009 IBC, 2012 IBC AND 2015 IBC.
- 3 DESIGN LOADS ARE AS FOLLOWS:
 - A) DEAD LOAD
- = 1.5 PSF
- B) LIVE LOAD
- = 12 PSF
- C) GROUND SNOW LOAD
- = 35 PSF (SPACING = 5.0 FFFT)
- = 60 PSF (SPACING = 4.0 FEET)
- 4 ULTIMATE LOW WIND SPEED (LW) 105 TO 140 MPH (NOMINAL WIND SPEED 81 TO 109 MPH): MAXIMUM RAFTER/POST AND END POST SPACING = 50 FEET.
- 5 ULTIMATE HIGH WIND SPEED (HW) 141 TO 145 MPH (NOMINAL WIND SPEED 110 TO 112 MPH); MAXIMUM RAFTER/POST AND END POST SPACING = 40 FEET
- 6. RISK CATEGORY I.
- 7. WIND EXPOSURE CATEGORY B.
- 8. SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/2" × 2 1/2" 14 GAUGE TUBE STEEL (TS) FRAMING MEMBERS. (UNLESS NOTED OTHERWISE)
- 9. AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR HAT CHANNELS, AND COLUMNS (INTERIOR OR END) = 10" D.C. (MAX.).
- 10 FASTENERS CONSIST OF #12-14×3/4" 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.
- 11. GROUND ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6' OF EACH RAFTER COLUMN ALONG SIDES AND ENDS.
- 12. GROUND ANCHORS CONSIST OF #4 REBAR W/ WELDED NUT x 36° LONG IN SUITABLE SOIL CONDITIONS. OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USED IN UNSUITABLE SOILS AS NOTED.
- WIND FURCES GOVERN OVER SEISMIC FURCES. SEISMIC PARAMETERS ANALYZED ARE:

SDIL SITE CLASS = D RISK CATEGORY I/II/III

R= 3.25

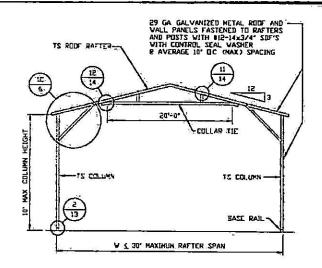
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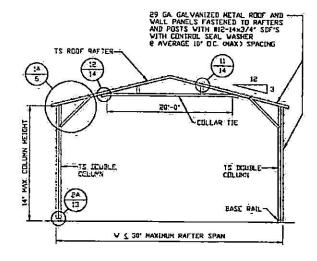
V= CsW

2¹¹= C833

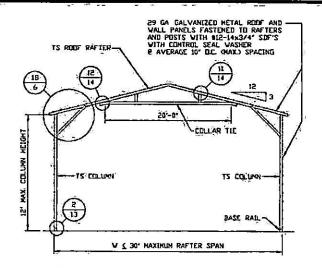
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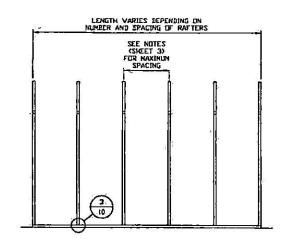
TYPICAL RAFTER/COLUMN FRAME SECTION SCALE NTS



TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: NTS

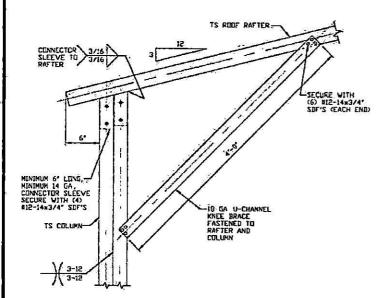


TYPICAL RAFTER/COLUMN FRAME SECTION

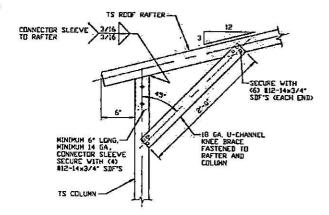


TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
SCALE, NTS

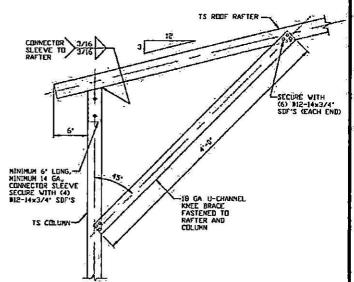
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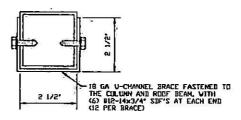
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 14' > TO > 12'



BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS & 10'



BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 12' > TO > 10'

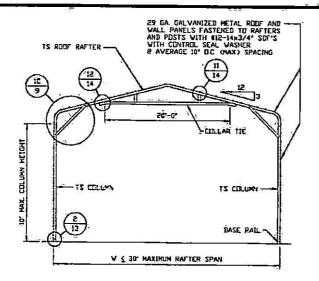


BRACE SECTION

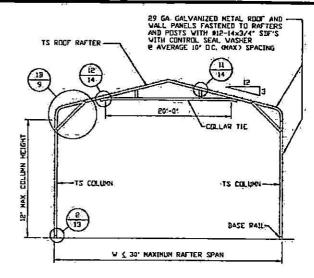
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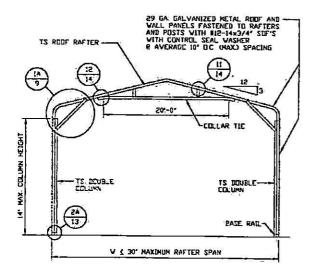
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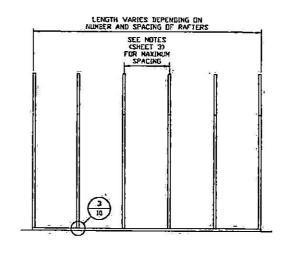
TYPICAL RAFTER/COLUMN FRAME SECTION



TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS

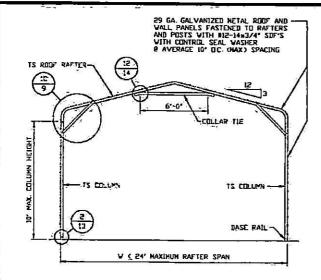


TYPICAL RAFTER/COLUMN FRAME SECTION
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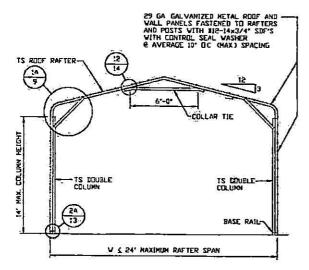


TYPICAL RAFTER/COLUMN FRAMING SIDE SECTION SCALE NTS

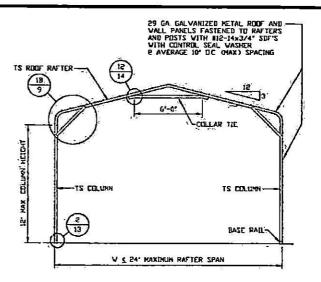
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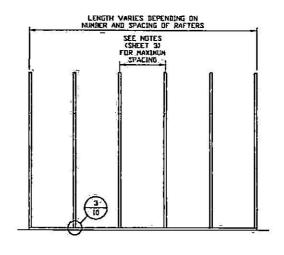
TYPICAL RAFTER/CULUMN FRAME SECTION SCALE: NTS



TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: NTS

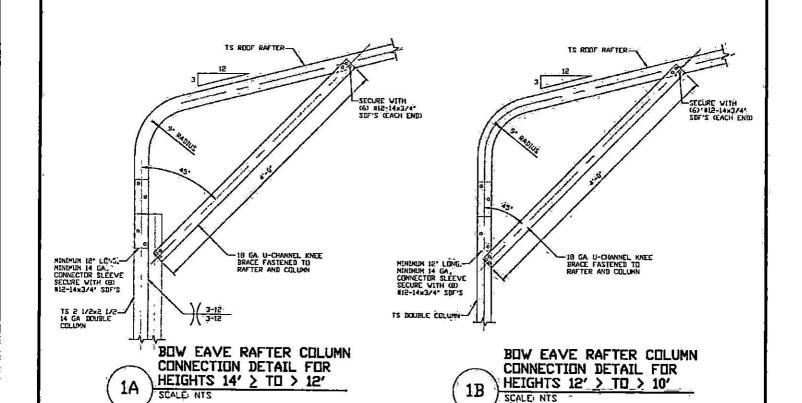


TYPICAL RAFTER/COLUMN FRAME SECTION



TYPICAL RAFTER/COLUMN FRAMING SIDE SECTION SCALE: NTS

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TS ROOF RAFTER

12

SECURE WITH

(6) BI2-14×3/4*

SDF'S GEACH END)

MINIMUM 12 (6) BI2-14×3/4*

SDF'S GEACH END)

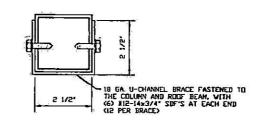
BI2-14×3/4* SDF'S

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BRACE FASTENED TO

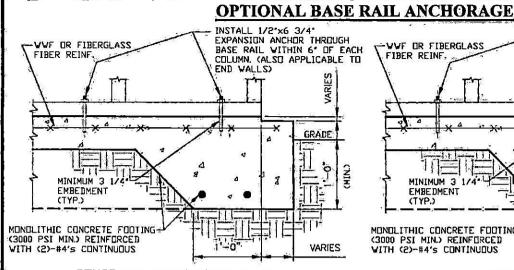
RAFTER AND COLUMN

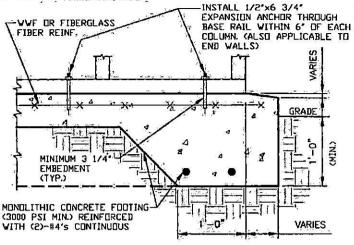
BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS & 10'



BRACE_SECTION

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CONCRETE MONDLITHIC SLAB BASE RAIL ANCHURAGE

SCALE NTS (MINIMUM ANCHOR EDGE DISTANCE IS 4")

CUNCRETE SLAB BASE RAIL ANCHORAGE SCALE! NTS (MINIMUM ANCHOR EDGE DISTANCE IS 4")

GENERAL NOTES

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 VEATHER, AND 1 1/2' ELSEWHERE.

REINFORCING STEEL

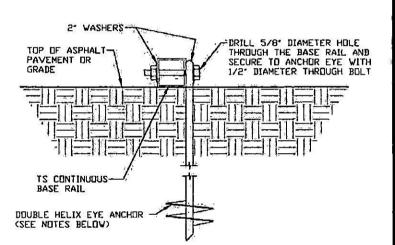
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM AGIS GRABE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

REINFURCEMENT MAY BE BENT IN THE SHOP OR THE FIELD PROVIDED:

- REINFURCEMENT IS BENT COLD.
- THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS.
 REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT
- BE FIELD BENT.

HELIX ANCHUR 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.
- FOR MEDIUM DENSE CDARSE 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 LODSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS ALLUVIAL FILL, USE MINIMUM (2) 6' HELICES WITH MINIMUM
- 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.



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

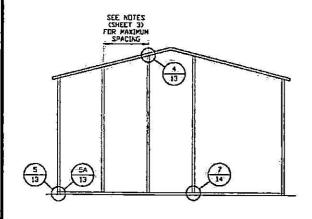
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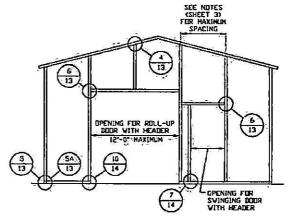
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BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



TYPICAL BUX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BUX EAVE RAFTER END WALL DPENINGS FRAMING SECTION SCALE: NTS

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GPENING FOR ROLL-UP

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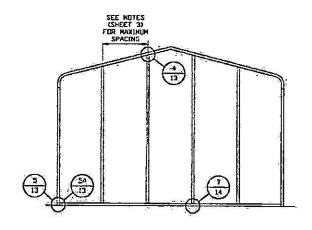
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TYPICAL BUX EAVE RAFTER
SIDE WALL OPENINGS FRAMING SECTION
SCALE NIS

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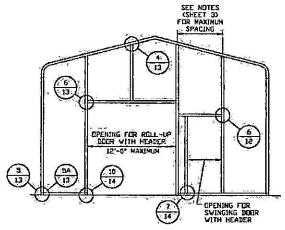
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DRAWN BY: JRS	LEA	LEAR METAL CARPORTS, LLC 253 BOWTIE LANE LOWGAP NC 27024					

BOW RAFTER END WALL AND SIDE WALL OPENINGS



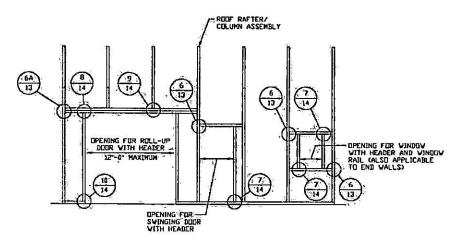
TYPICAL BOW RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOW RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS

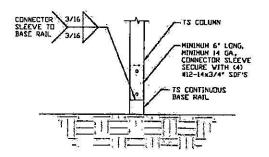


TYPICAL BOW RAFTER SIDE WALL OPENINGS FRAMING SECTION

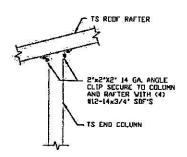
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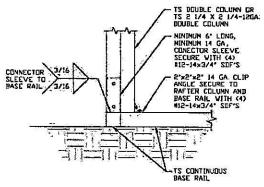
BOW AND BOX EAVE RAFTER WALL OPENING DETAILS



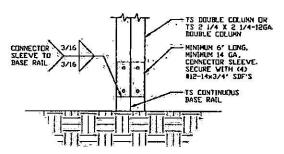
RAFTER COLUMN/BASE RAIL
CONNECTION DETAIL
SCALE: NTS



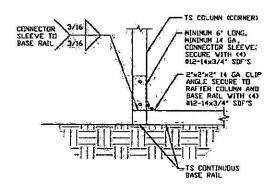
4 CONNECTION DETAIL
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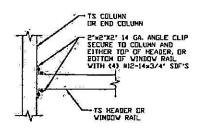
END CULUMN/BASE RAIL
CONNECTION DETAIL
SCALE: NTS



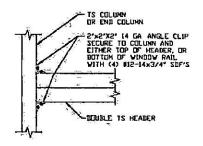
RAFTER COLUMN/BASE RAIL
CONNECTION DETAIL
SCALE: NIS



5 END COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



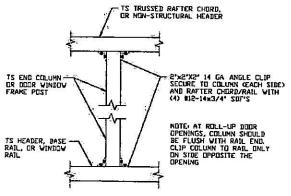
COLUMN OR WINDOW
RAIL TO POST
CONNECTION DETAIL
SCALE NTS



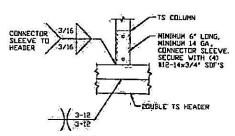
COLUMN OR WINDOW
RAIL TO POST
CONNECTION DETAIL
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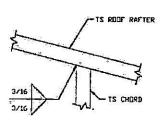
BOW AND BOX EAVE RAFTER WALL OPENING DETAILS



CULUMN TO HEADER, BASE RAIL OR WINDOW RAIL CONNECTION DETAIL SCALE: NTS

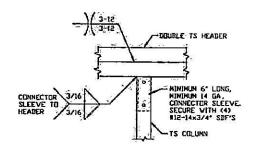


9 HEADER/COLUMN
CONNECTION DETAIL
SCALE: NTS

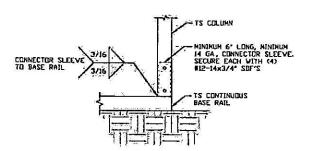


RAFTER TO CHORD CONNECTION DETAIL

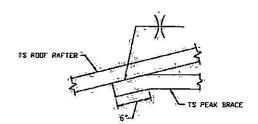
SCALE NTS



HEADER/COLUMN
CONNECTION DETAIL
SCALE NTS



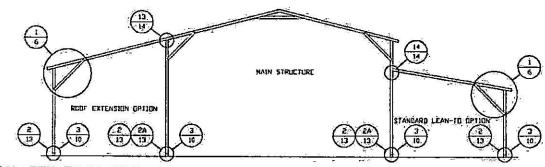
COLUMN/BASE RAIL CONNECTION DETAIL SEALE NIS



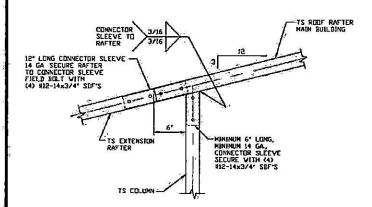
PEAK BRACE CUNNECTION DETAIL
SCALE NIS

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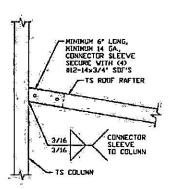
BOX EAVE RAFTER LEAN-TO OPTIONS



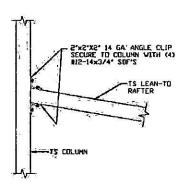
TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)



SIDE EXTENSION RAFTER/
COLUMN DETAIL FOR
RAFTER SPANS & 12'



LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS & 12'



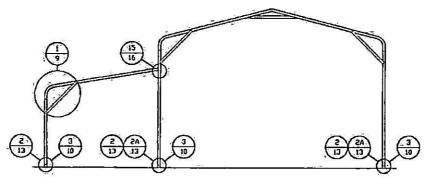
DPTIONAL LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION

DETAIL FOR RAFTER SPANS & 12'

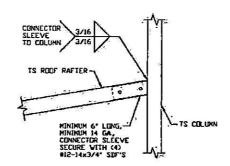
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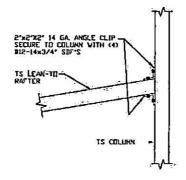
BOW RAFTER LEAN-TO OPTION



TYPICAL BOW RAFTER LEAN-TO OPTION FRAMING SECTION



LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS & 12' SCALE: NTS



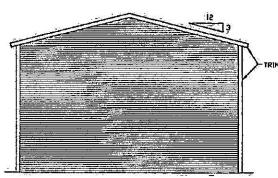
OPTIONAL LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION

DETAIL FOR RAFTER SPANS & 12'

SCALE, NIS.

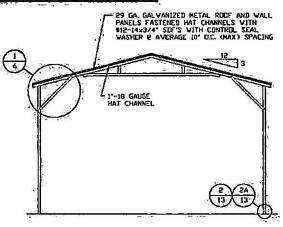
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BOX EAVE RAFTER VERTICAL ROOF OPTION

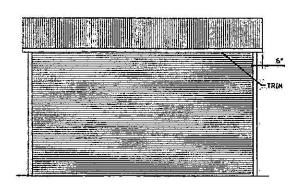


TYPICAL END ELEVATION

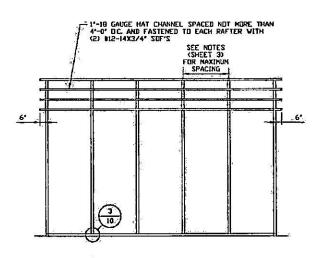
VERTICAL ROOF



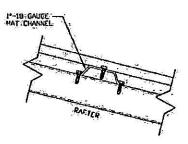
TYPICAL SECTION VERTICAL ROOF OPTION



TYPICAL SIDE ELEVATION VERTICAL ROOF SCALE: NTS



TYPÍCAL FRAMING SECTION VERTICAL ROOF OPTION SCALE: NTS



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

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