



Bennett
Bennett Building Systems, LLC

STRUCTURAL DESIGN

UTILITY BUILDING

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

28 August 2013
Revision 2
M&A Project No. 12117S

Prepared for:

Mr. Danny Lowery
President- Steel Structures
1660 Dixon Airline Road
Augusta, Georgia 30906

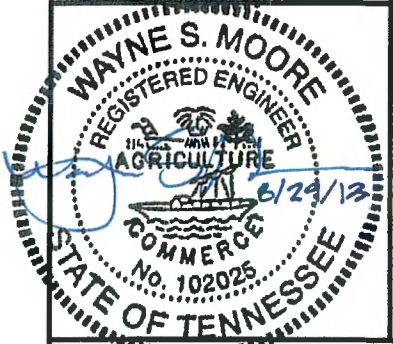
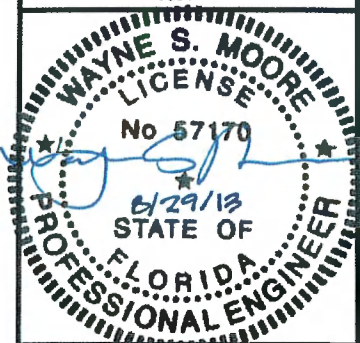
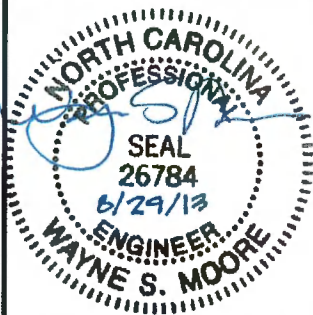
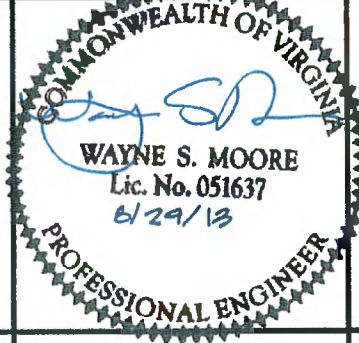


Prepared by:

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1009 East Avenue
North Augusta, SC 29841



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BENNETT BUILDING SYSTEMS, LLC
UTILITY BUILDING
PE SEAL COVER SHEET

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DATE: 6-29-13

SHT. 1

SCALE: NTS

DWG. NO: SK-2

JOB NO: 12117S

REV: 2

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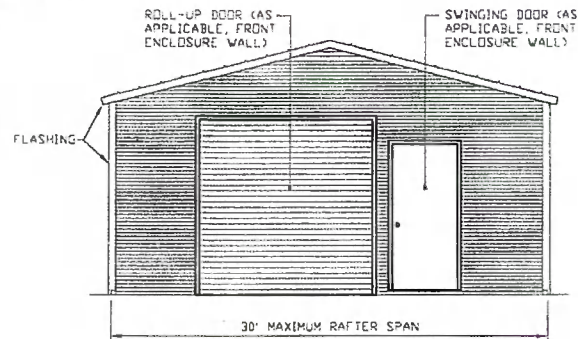
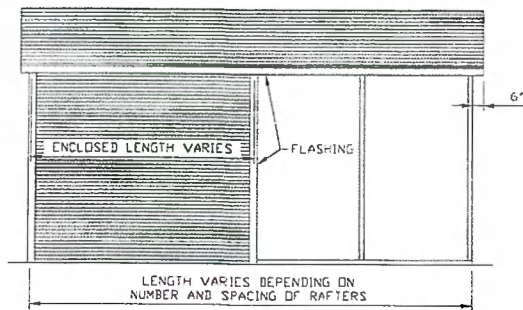
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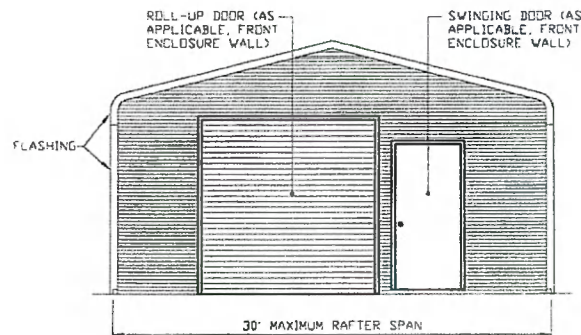
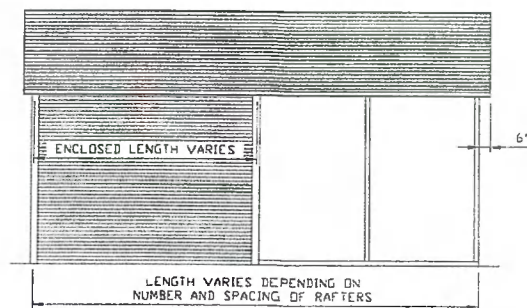
BOX EAVE FRAME RAFTER ENCLOSED BUILDING
(Sheets 4, 5, 8, 9, 11, 12, 13, AND 15)



TYPICAL SIDE ELEVATION-HORIZONTAL ROOF
SCALE: 1/8" = 1'-0"

TYPICAL END ELEVATION-HORIZONTAL ROOF
SCALE: 1/8" = 1'-0"

BOW FRAME RAFTER ENCLOSED BUILDING
(Sheets 6, 7, 8, 10, 11, 12, AND 14)



TYPICAL SIDE ELEVATION
SCALE: 1/8" = 1'-0"

TYPICAL END ELEVATION
SCALE: 1/8" = 1'-0"

INSTALLATION NOTES AND SPECIFICATIONS

- 1 DESIGN IS FOR A MAXIMUM 30' WIDE x 14' EAVE HEIGHT STRUCTURES
- 2 DESIGN WAS DONE IN ACCORDANCE WITH THE 2010 FLORIDA BUILDING CODE (FBC) WITH 2012 SUPPLEMENT AMENDMENTS, 2006 INTERNATIONAL BUILDING CODE (IBC), 2009 IBC AND 2012 IBC
- 3 DESIGN LOADS ARE AS FOLLOWS:
 - A) DEAD LOAD = 1.5 PSF
 - B) LIVE LOAD = 12 PSF
 - C) SNOW LOAD = 18.1 PSF
- 4 LOW ULTIMATE WIND SPEED 105 TO 140 MPH (NOMINAL WIND SPEED 81 TO 108 MPH) MAXIMUM RAFTER/POST AND END POST SPACING = 50 FEET
- 5 HIGH ULTIMATE WIND SPEED 141 TO 170 MPH (NOMINAL WIND SPEED 109 TO 132 MPH) MAXIMUM RAFTER/POST AND END POST SPACING = 40 FEET
- 6 RISK CATEGORY I
- 7 WIND EXPOSURE CATEGORY B
- 8 SPECIFICATIONS APPLICABLE TO 26 AND 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/4" x 2 1/4" - 14 GAGE STEEL TUBE FRAMING MEMBERS
- 9 AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR PURLINS, AND POSTS (INTERIOR OR END) = 6 INCHES
- 10 FASTENERS CONSIST OF 1/4"-14x3/4" 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 CONSISTING OF #4 REBAR W/WELDED NUT x 24" LONG MAY BE USED FOR LOW (< 108 MPH NOMINAL) WIND SPEEDS ONLY
- 12 GROUND ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6" OF EACH RAFTER POST ALONG SIDES FOR HIGH WIND, EVERY OTHER POST FOR LOW WIND
- 13 OPTIONAL BASE RAIL ANCHORAGE MAY BE USED FOR LOW AND HIGH (> 117 MPH - 139 MPH NOMINAL) WIND SPEEDS

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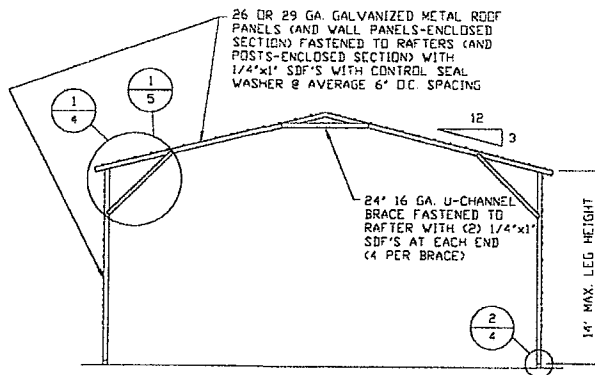
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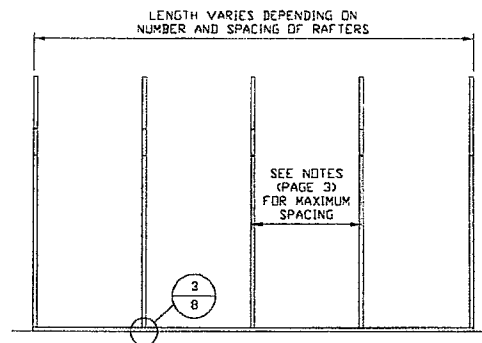
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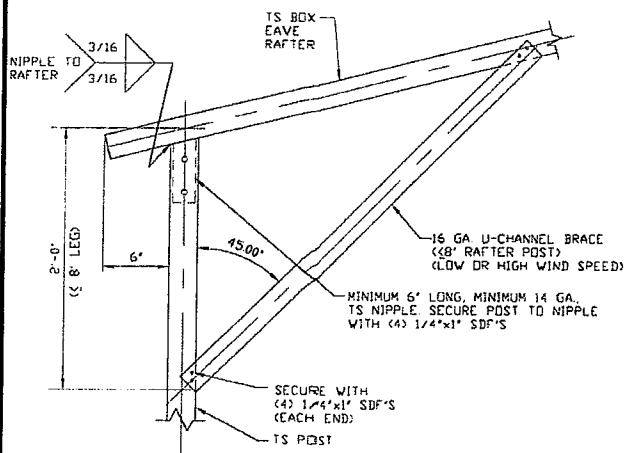
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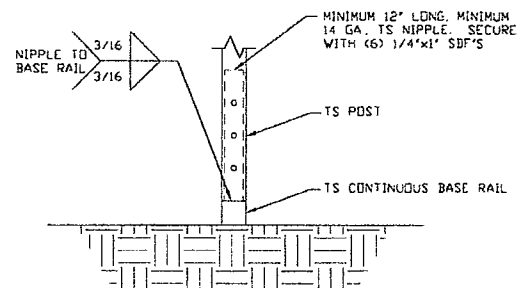
TYPICAL RAFTER/POST END FRAME SECTION
SCALE: 1/8" = 1'-0"



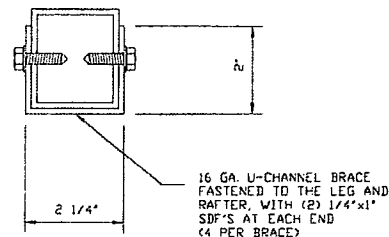
TYPICAL RAFTER/POST SIDE FRAMING SECTION
SCALE: 1/8" = 1'-0"



1A BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR OPEN OR ENCLOSED AREAS WITH LEG HEIGHT ≤ 8'-0"
SCALE: NTS



2 RAFTER POST/BASE RAIL CONNECTION DETAIL
SCALE: NTS



BRACE SECTION
SCALE: NTS

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SHT. 4

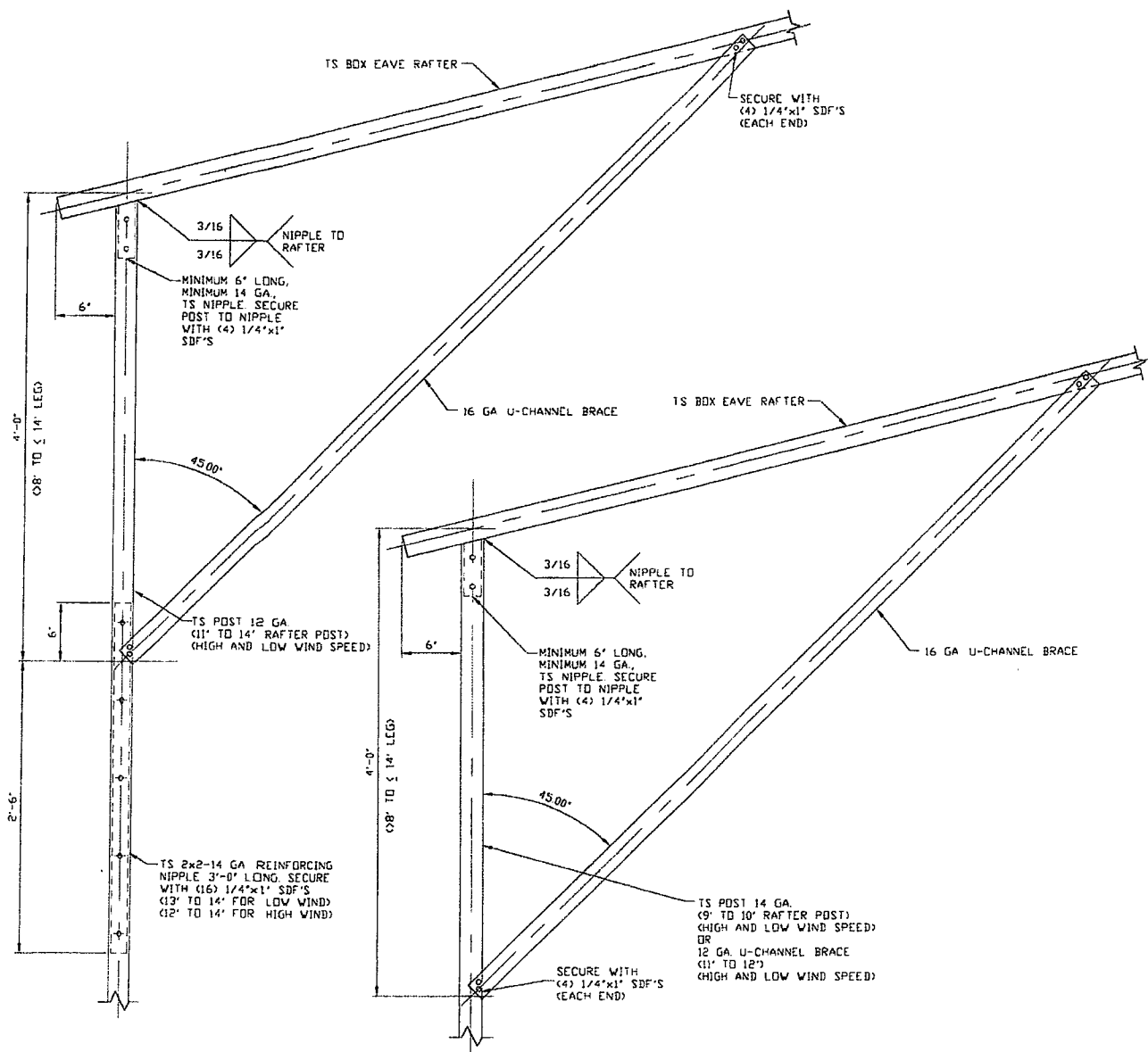
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JOB NO: 12117S

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BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL (ENCLOSED AREA)

1B

SCALE: NTS

BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL (ENCLOSED AREA)

1B

SCALE: NTS

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UTILITY BUILDING

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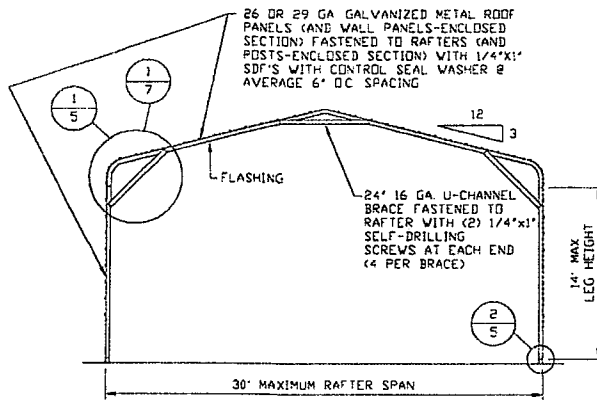
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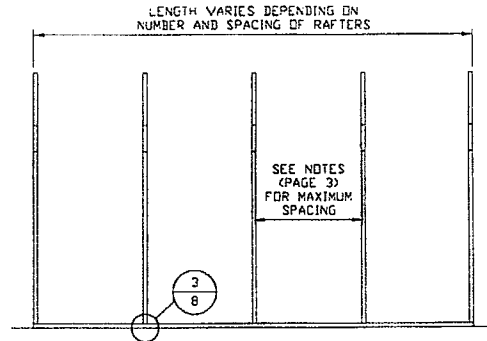
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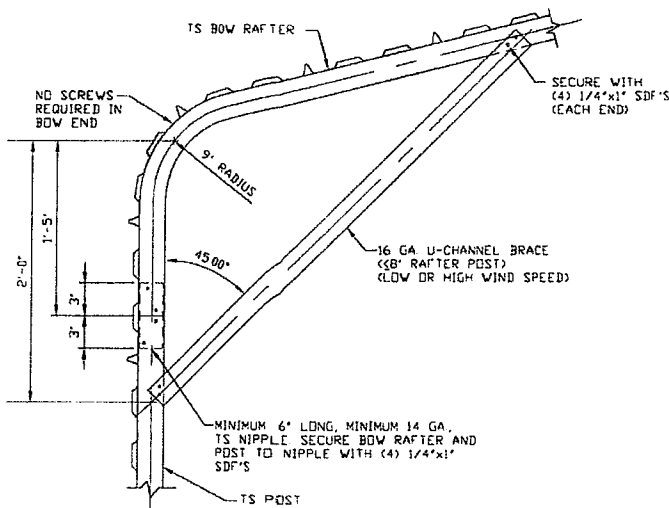
TYPICAL RAFTER/POST END FRAME SECTION

SCALE: 1/8" = 1'-0"



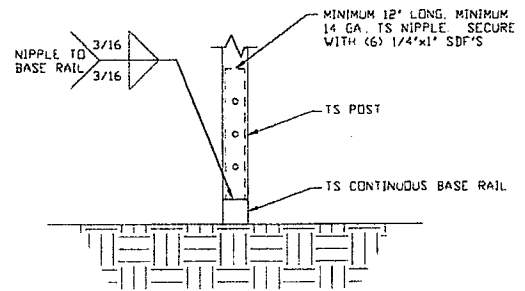
TYPICAL RAFTER/POST SIDE FRAMING SECTION

SCALE: 1/8" = 1'-0"



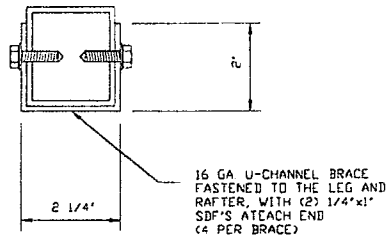
BOW RAFTER/CORNER POST CONNECTION DETAIL FOR OPEN OR ENCLOSED AREAS WITH LEG HEIGHT LESS THAN 8'-0"

SCALE: NTS



2 RAFTER POST/BASE RAIL CONNECTION DETAIL

SCALE: NTS



BRACE SECTION

SCALE: NTS

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SHT. 6

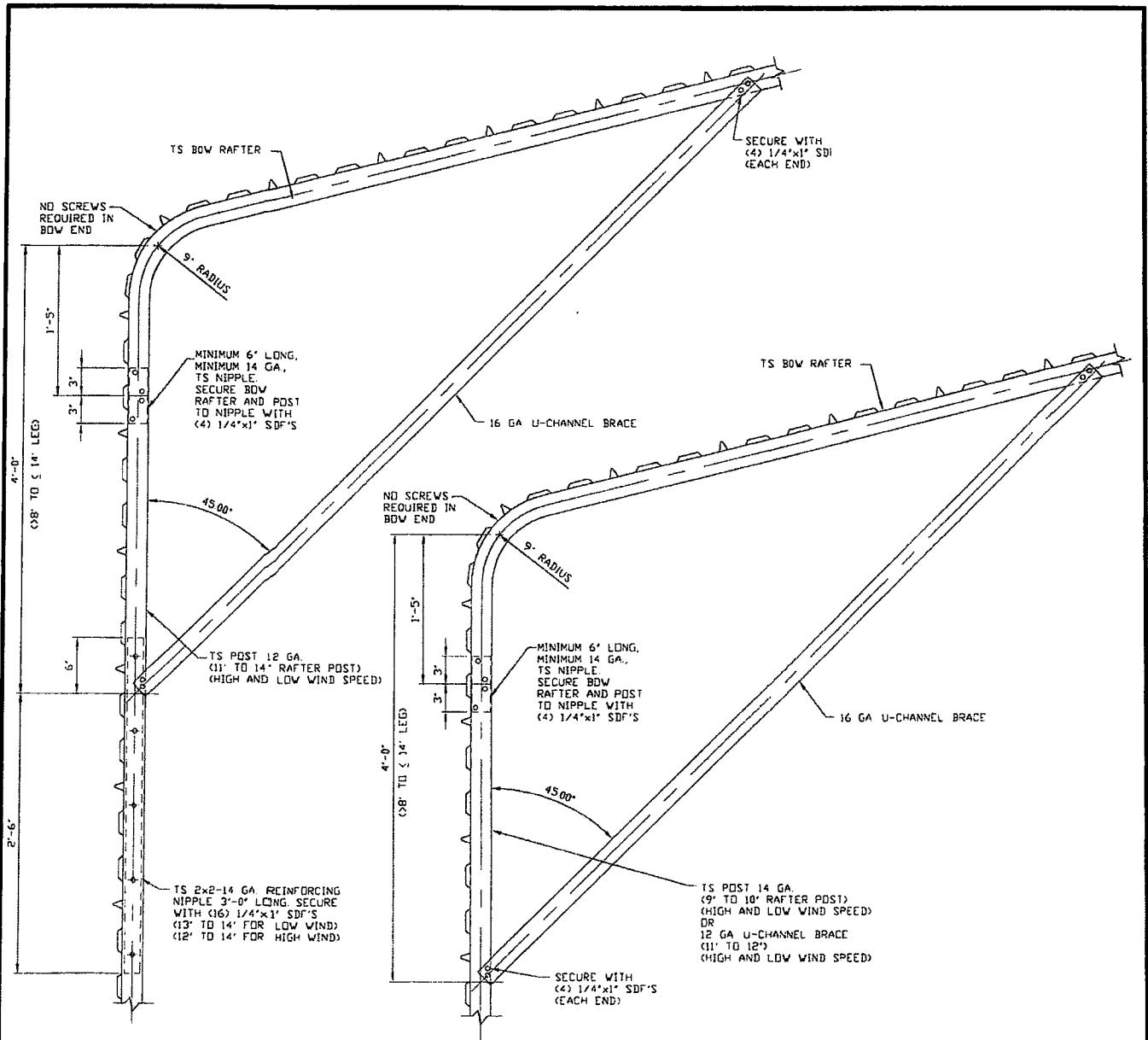
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1B

BOW RAFTER/CORNER POST
CONNECTION DETAIL
(ENCLOSED AREA)
SCALE: NTS

1C

BOW RAFTER/CORNER POST
CONNECTION DETAIL
(ENCLOSED AREA)
SCALE: NTS

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SHT. 7

SCALE: NTS

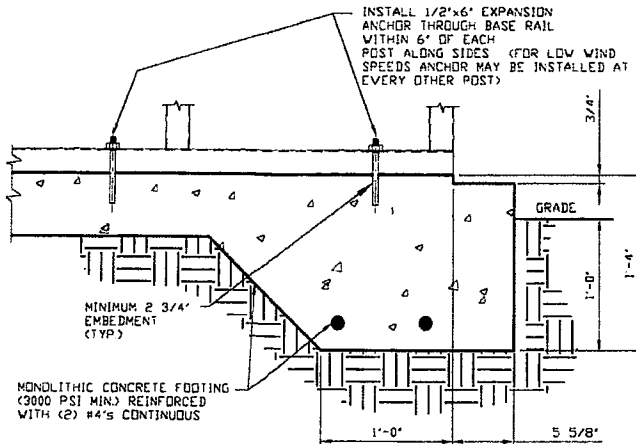
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BASE RAIL ANCHORAGE OPTIONS FOR LOW AND HIGH WIND SPEEDS

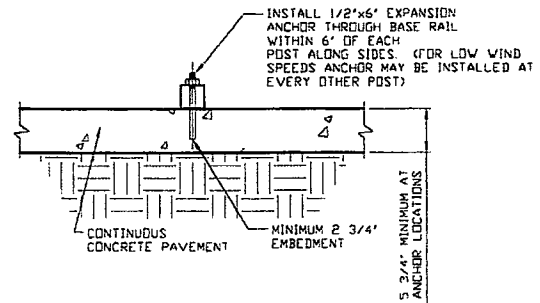


3A

CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

SCALE: NTS

MINIMUM ANCHOR EDGE DISTANCE IS 6 3/4"



3B

CONCRETE SLAB BASE RAIL ANCHORAGE

SCALE: NTS

MINIMUM ANCHOR EDGE DISTANCE IS 6 3/4"

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 INCHES 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 INCHES ELSEWHERE

REINFORCING STEEL:

THE REINFORCING STEEL SHALL BE MINIMUM GRADE 60.

GALVANIZATION:

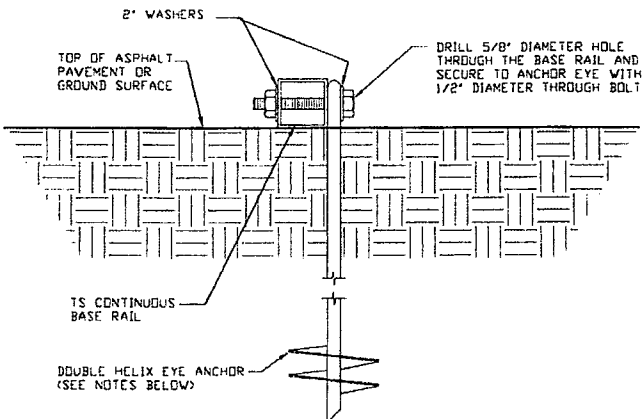
METAL ACCESSORIES FOR USE IN EXTERIOR WALL CONSTRUCTION AND NOT DIRECTLY EXPOSED TO THE WEATHER SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A 153, CLASS B-2. METAL PLATE CONNECTORS, SCREWS, BOLTS AND NAILS EXPOSED DIRECTLY TO THE WEATHER SHALL BE STAINLESS STEEL OR HOT DIPPED GALVANIZED

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; AND
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 INCH EMBEDMENT.
2. FOR CORAL USE MINIMUM (2) 4" HELICES WITH MINIMUM 30 INCH EMBEDMENT
3. FOR MEDIUM DENSE COARSE SANDS, SANDY GRAVELS, VERY STIFF SILTS, AND CLAYS USE MINIMUM (2) 4" HELICES WITH MINIMUM 30 INCH EMBEDMENT.
4. FOR LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS ALLUVIAL FILL USE MINIMUM (2) 6" HELICES WITH MINIMUM 50 INCH 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 INCH EMBEDMENT.



3C

GROUND BASE HELIX ANCHORAGE

SCALE: NTS

(CAN BE USED FOR ASPHALT)

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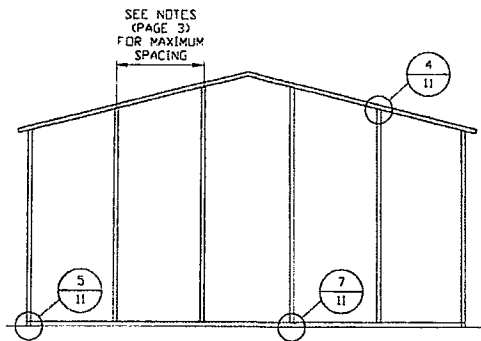
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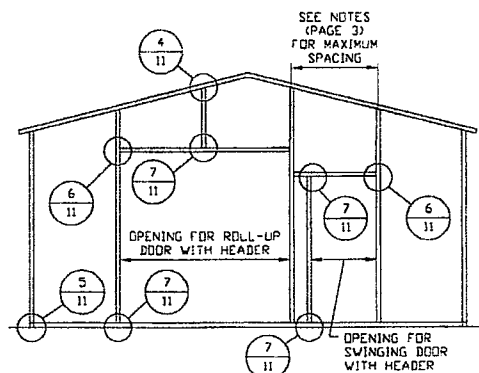
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BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



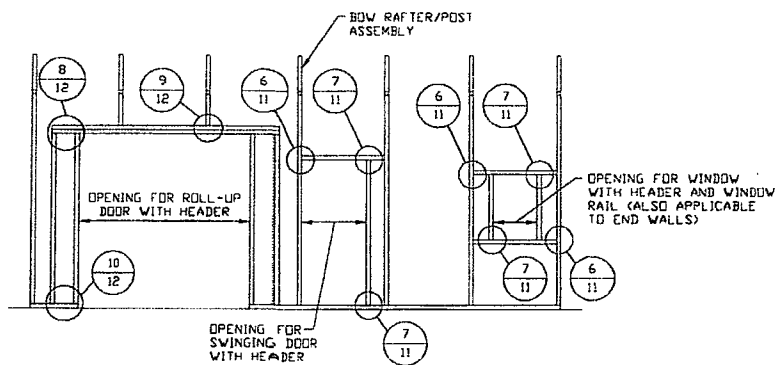
**TYPICAL BOX EAVE RAFTER
END WALL FRAMING SECTION**

SCALE: 1/8" = 1'-0"



**TYPICAL BOX EAVE RAFTER END
WALL OPENINGS FRAMING SECTION**

SCALE: 1/8" = 1'-0"



**TYPICAL BOX EAVE RAFTER
SIDE WALL OPENINGS FRAMING SECTION**

SCALE: 1/8" = 1'-0"

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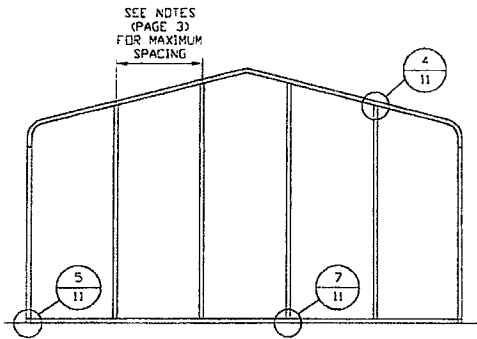
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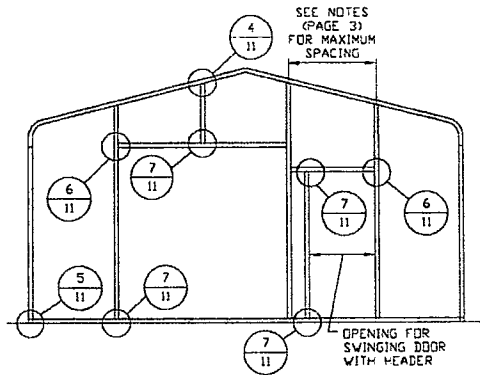
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BOW RAFTER END WALL AND SIDE WALL OPENINGS



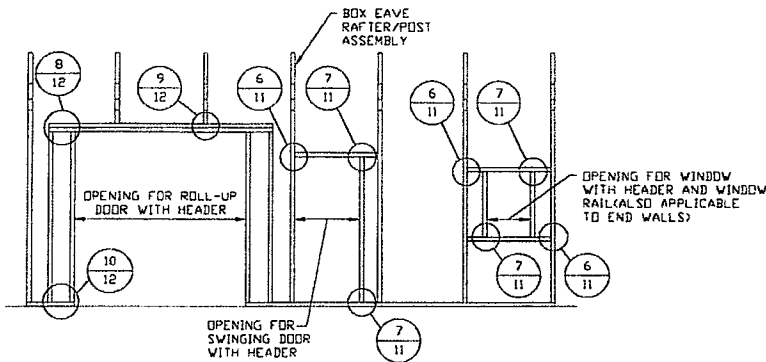
**TYPICAL BOW RAFTER
END WALL FRAMING SECTION**

SCALE: 1/8" = 1'-0"



**TYPICAL BOW RAFTER END
WALL OPENINGS FRAMING SECTION**

SCALE: 1/8" = 1'-0"



**TYPICAL BOW RAFTER SIDE
WALL OPENINGS FRAMING SECTION**

SCALE: 1/8" = 1'-0"

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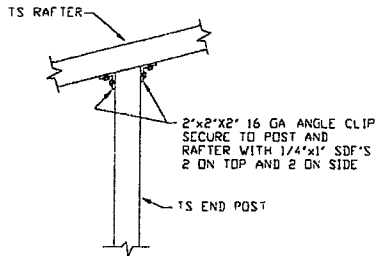
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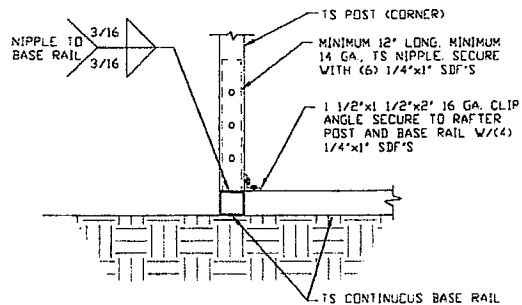
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BOX EAVE RAFTER WALL OPENING DETAILS



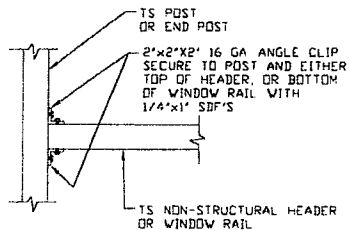
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**END POST/RAFTER
CONNECTION DETAIL**
SCALE: NTS



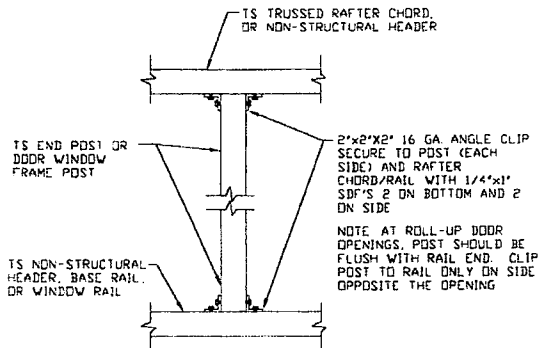
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**END POST/BASE RAIL
CONNECTION DETAIL**
SCALE: NTS



6

**HEADER OR WINDOW RAIL
TO POST CONNECTION DETAIL**
SCALE: NTS



7

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

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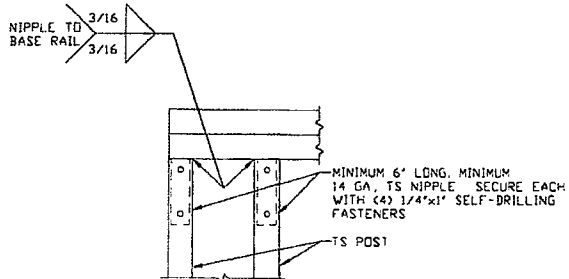
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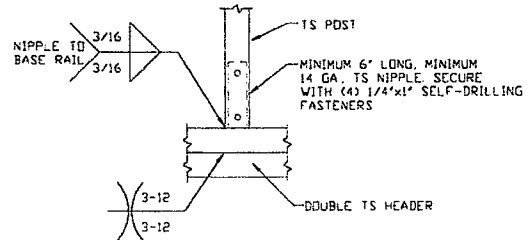
BOX EAVE RAFTER WALL OPENING DETAILS



8

DOUBLE HEADER/POST CONNECTION DETAIL

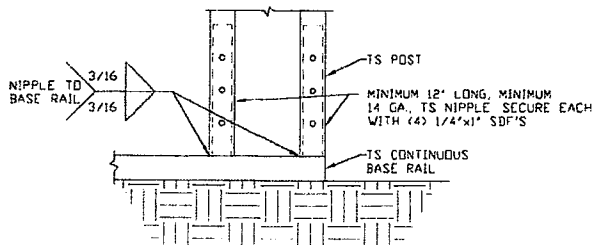
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9

POST/DOUBLE HEADER CONNECTION DETAIL

SCALE: NTS



10

POST/BASE RAIL CONNECTION DETAIL

SCALE: NTS

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CLIENT: -

DATE: 8-29-13

SHT. 12

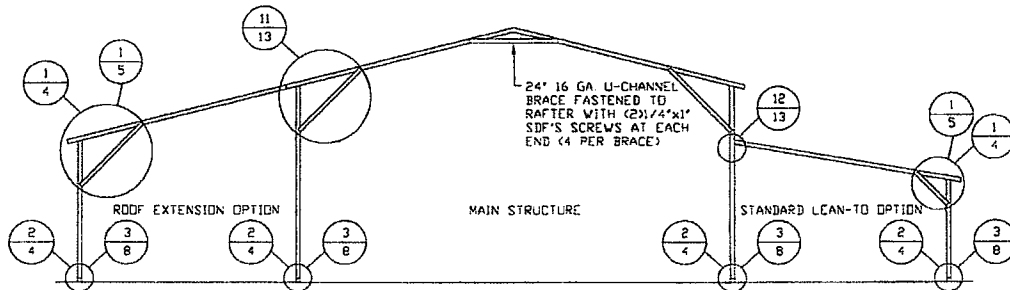
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DWG. NO: SK-2

JOB NO: 12117S

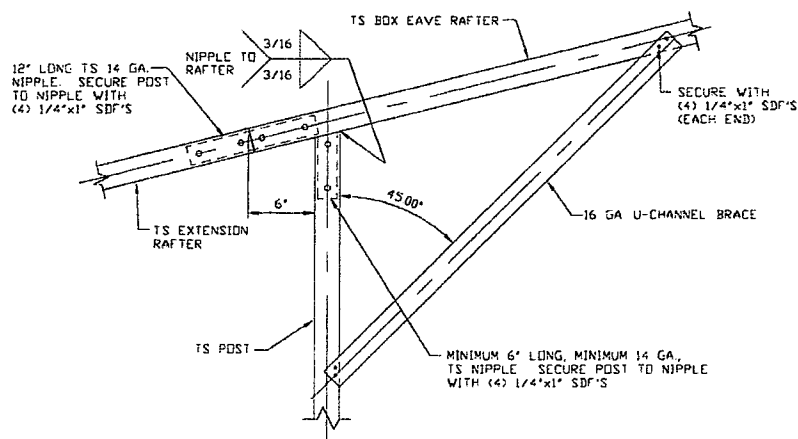
REV: 2

BOW EAVE RAFTER LEAN-TO OPTIONS



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

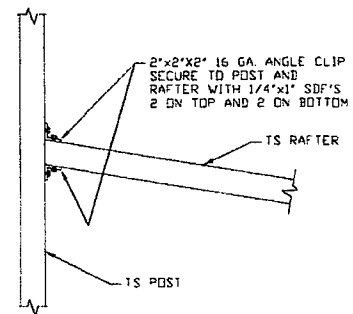
SCALE: 1/8" = 1'-0"



11

SIDE EXTENSION RAFTER/ CORNER POST DETAIL

SCALE: NTS



12

LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL

SCALE: NTS

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UTILITY BUILDING**

DATE: 8-29-13

SHT. 13

SCALE: NTS

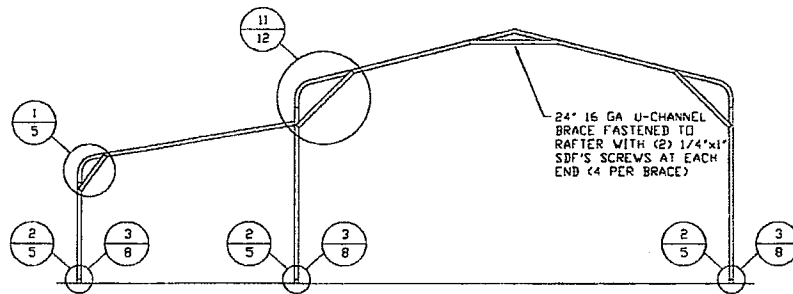
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JOB NO: 12117S

REV: 2

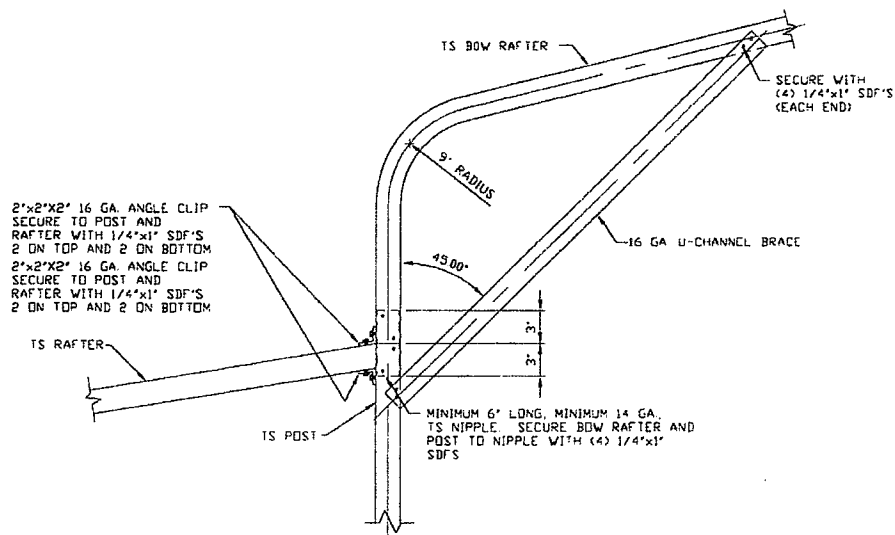
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BOW RAFTER LEAN-TO OPTION



TYPICAL BOW RAFTER LEAN-TO OPTION FRAMING SECTION

SCALE: 1/8" = 1'-0"



**LEAN-TO RAFTER TO RAFTER
POST CONNECTION DETAIL**

11

SCALE: NTS

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SHT. 14

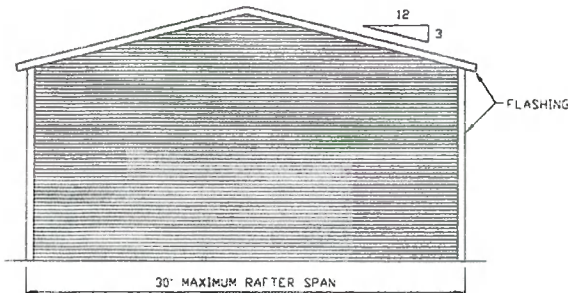
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DWG. NO: SK-2

JOB NO: 12117S

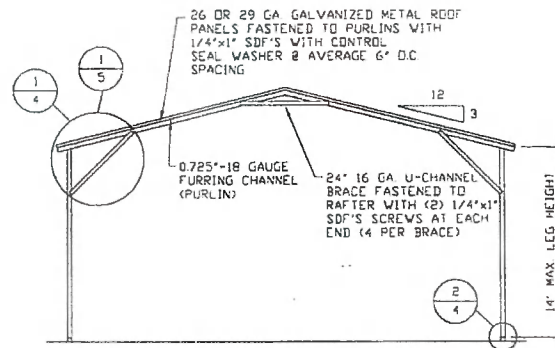
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BOX EAVE RAFTER VERTICAL ROOF OPTION



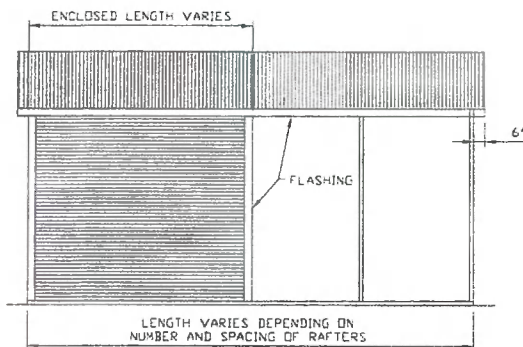
**TYPICAL END ELEVATION
VERTICAL ROOF**

SCALE: 1/8" = 1'-0"



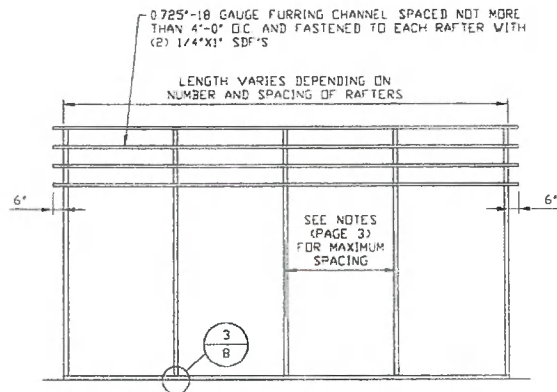
**TYPICAL SECTION
VERTICAL ROOF OPTION**

SCALE: 1/8" = 1'-0"



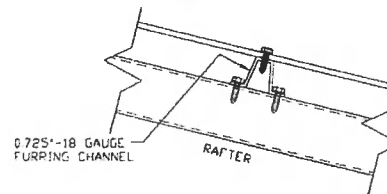
**TYPICAL SIDE ELEVATION
VERTICAL ROOF**

SCALE: 1/8" = 1'-0"



**TYPICAL FRAMING SECTION
VERTICAL ROOF OPTION**

SCALE: 1/8" = 1'-0"



ROOF PANEL ATTACHMENT

(ALTERNATE FOR VERTICAL ROOF PANELS)
SCALE: NTS

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SHT. 15

SCALE: NTS

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REV: 2

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