



STRUCTURAL DESIGN

ENCLOSED BUILDING

**MAXIMUM 30'- 0" WIDE X 16'- 0" HEIGHT-
BOX EAVE FRAME AND BOW FRAME**

**24 January 2018
Revision 0
M&A Project No. 17275S**

Prepared for:

**Quality Commercial Structures
P.O. Box 1448
Pilot Mountain, NC 27041**

Prepared by:

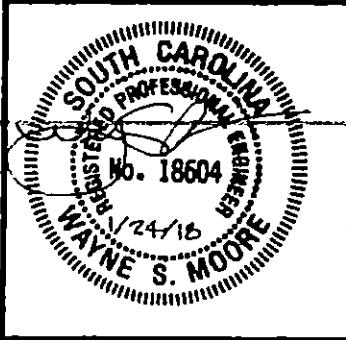
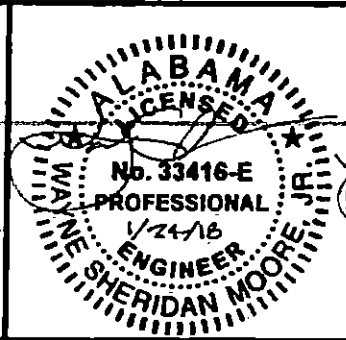
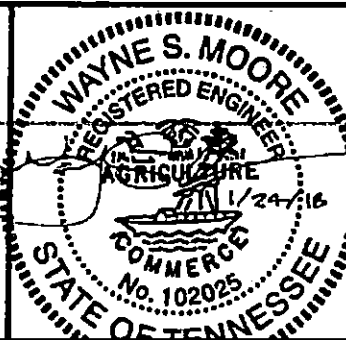
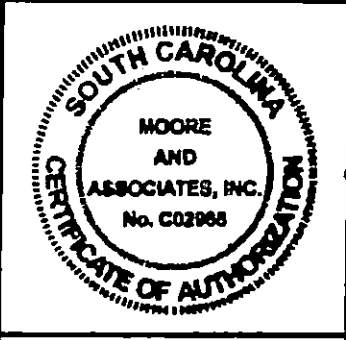
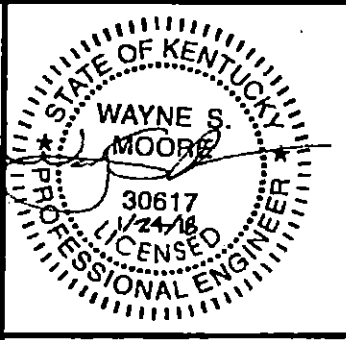
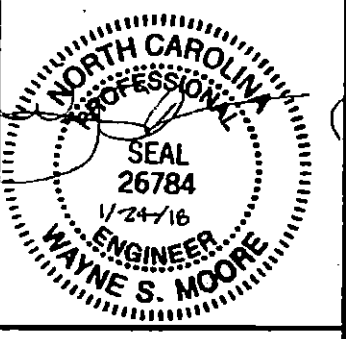
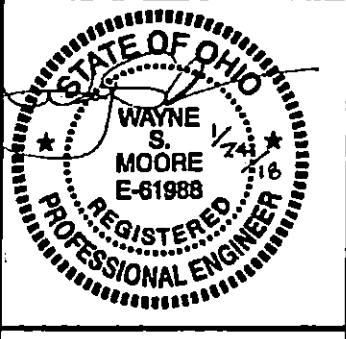
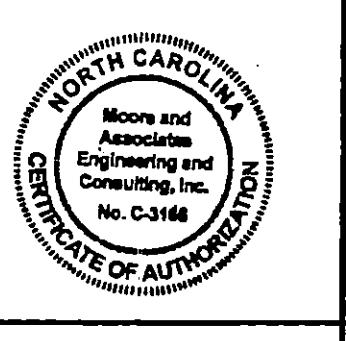
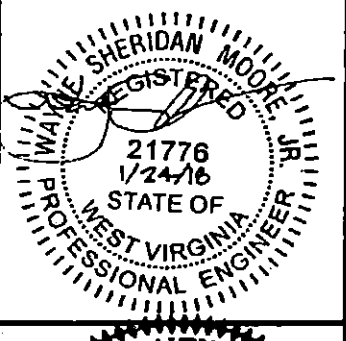
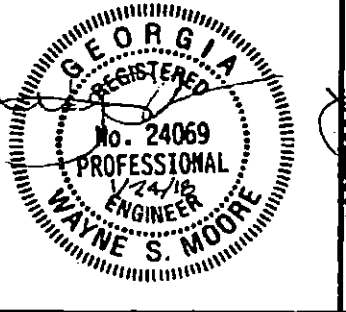
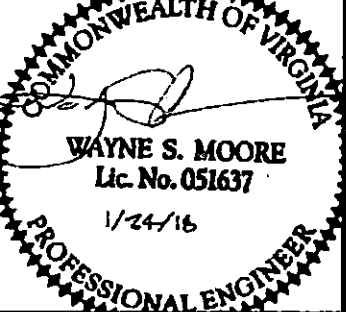
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**1009 East Avenue
North Augusta, SC 29841**

**401 S. Main Street
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P.O. BOX 1448
PILOT MOUNTAIN, NC 27041
30'x16' ENCLOSED BUILDING

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CLIENT: QUALITY/A PLUS	SHT. 1	DWG. NO: SK-3	REV. 0

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DRAWING INDEX

SHEET 1	PE SEAL COVER SHEET (1 OF 2)
SHEET 1A	PE SEAL COVER SHEET (2 OF 2)
SHEET 2	DRAWING INDEX
SHEET 3	INSTALLATION NOTES AND SPECIFICATIONS
SHEET 3A	TYPICAL SIDE AND END ELEVATIONS
SHEET 4	TYPICAL RAFTER/COLUMN END FRAMING SECTION (BOX EAVE RAFTER)
SHEET 4A	TYPICAL RAFTER/COLUMN END FRAMING SECTION (BOX EAVE RAFTER)
SHEET 4B	TYPICAL RAFTER/COLUMN END FRAMING SECTION (BOX EAVE RAFTER)
SHEET 4C	TYPICAL RAFTER/COLUMN END FRAMING SECTION (BOX EAVE RAFTER)
SHEET 5	COLUMN CONNECTION DETAILS (BOX EAVE STRUCTURE)
SHEET 5A	COLUMN CONNECTION DETAILS (BOX EAVE STRUCTURE)
SHEET 5B	COLUMN CONNECTION DETAILS (BOX EAVE STRUCTURE)
SHEET 5C	COLUMN CONNECTION DETAILS (BOX EAVE STRUCTURE)
SHEET 6	TYPICAL RAFTER/COLUMN END FRAMING SECTION (BOW RAFTER)
SHEET 6A	TYPICAL RAFTER/COLUMN END FRAMING SECTION (BOW RAFTER)
SHEET 6B	TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION (BOW RAFTER)
SHEET 7	COLUMN CONNECTION DETAILS (BOW RAFTER STRUCTURE)
SHEET 7A	COLUMN CONNECTION DETAILS (BOW RAFTER STRUCTURE)
SHEET 8	BASE RAIL ANCHORAGE OPTIONS
SHEET 8A	BASE RAIL ANCHORAGE OPTIONS
SHEET 8B	BASE RAIL ANCHORAGE OPTIONS
SHEET 9	TYPICAL END WALL AND SIDE WALL FRAMING SECTIONS (BOX EAVE)
SHEET 10	TYPICAL END WALL AND SIDE WALL FRAMING SECTIONS (BOW RAFTER)
SHEET 11	CONNECTION DETAILS
SHEET 12	CONNECTION DETAILS
SHEET 13	CONNECTION DETAILS
SHEET 14	LEAN-TO OPTIONS (BOX EAVE RAFTER)
SHEET 14A	LEAN-TO OPTIONS (BOX EAVE RAFTER)
SHEET 15	LEAN-TO OPTIONS (BOW RAFTER)
SHEET 16	VERTICAL ROOF OPTION END AND SIDE ELEVATION AND SECTION
SHEET 17	HEADER OPTION

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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 2012 NORTH CAROLINA BUILDING CODE, 2009 INTERNATIONAL BUILDING CODE (IBC), 2012-IBC, AND THE 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 (GROUND SNOW LOAD = 45 PSF FOR RAFTER/POST SPACING = 4.0 FEET.)
= 30 PSF WITH U-CHANNEL PEAK BRACE (W < 24'-0")
4. 3-SECOND GUST ULTIMATE WIND SPEED (V_{ULT}) 105 TO 145 MPH (NOMINAL WIND SPEED 81 TO 112 MPH).
5. MAXIMUM RAFTER/POST AND END POST SPACING = 50 FEET.
6. RISK CATEGORY I.
7. WIND EXPOSURE CATEGORY B.
8. 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.)
9. AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR HAT CHANNELS, AND COLUMNS (INTERIOR OR END) = 10" O.C. (MAX.)
10. 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 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.
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.
13. WIND FORCES GOVERN OVER SEISMIC FORCES SEISMIC PARAMETERS ANALYZED ARE:
 SOIL SITE CLASS = D
 RISK CATEGORY I/II/III
 $R = 3.25$ $I_E = 1.0$
 $S_{DS} = 1.522$ $V = C_s W$
 $S_{DI} = 0.839$

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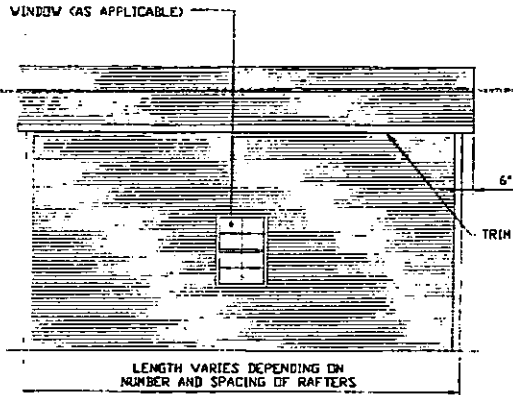
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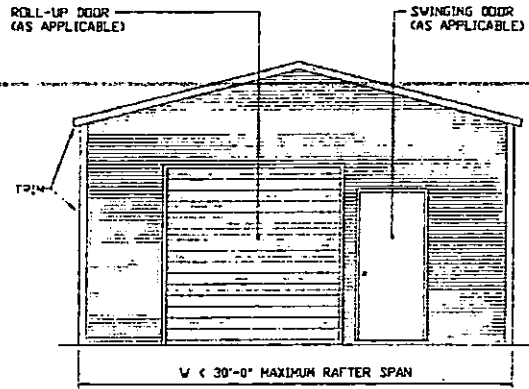
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BOX EAVE FRAME RAFTER STRUCTURE

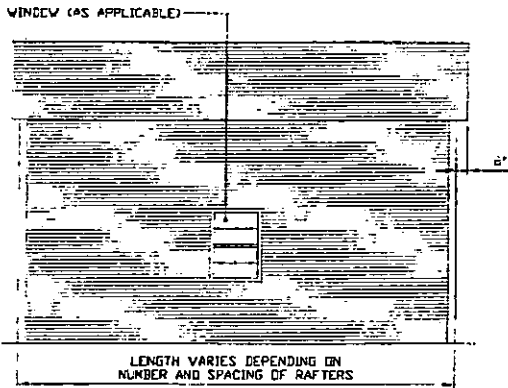


TYPICAL SIDE ELEVATION
SCALE: NTS

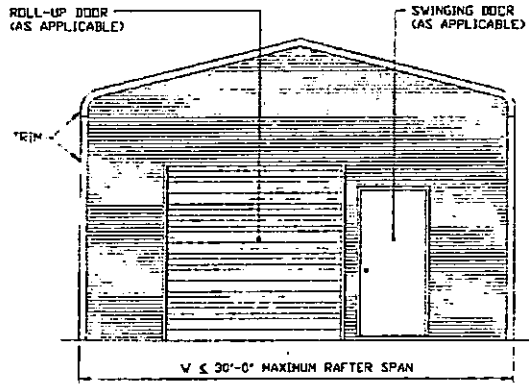


TYPICAL END ELEVATION
SCALE: NTS

BOX FRAME RAFTER STRUCTURE



TYPICAL SIDE ELEVATION
SCALE: NTS



TYPICAL END ELEVATION
SCALE: NTS

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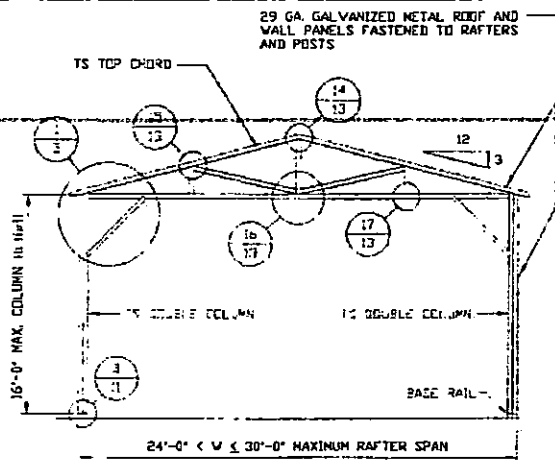
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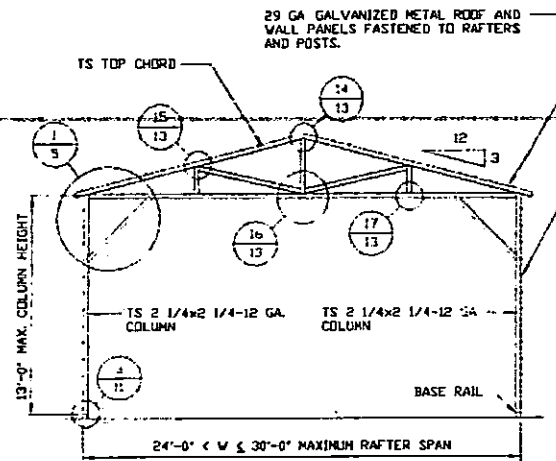
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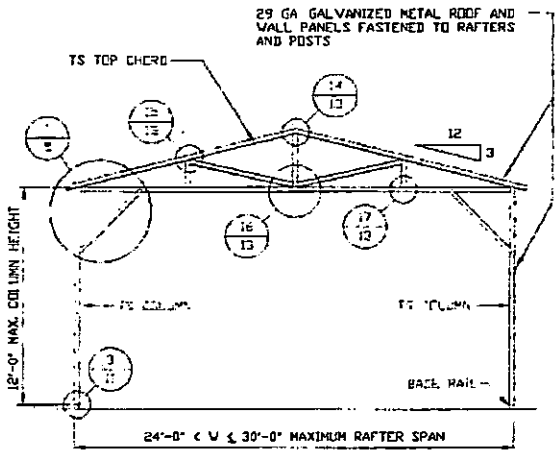
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TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS

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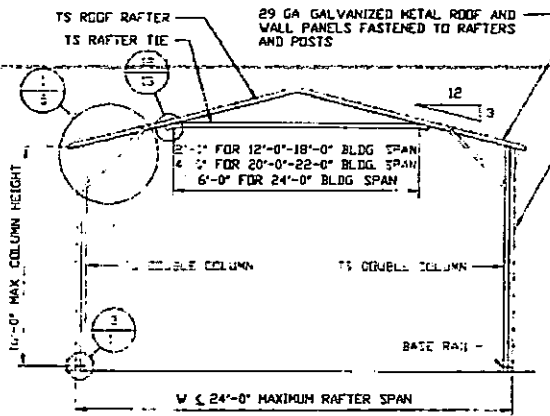
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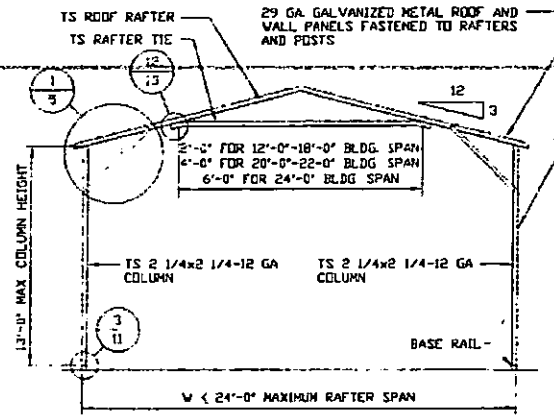
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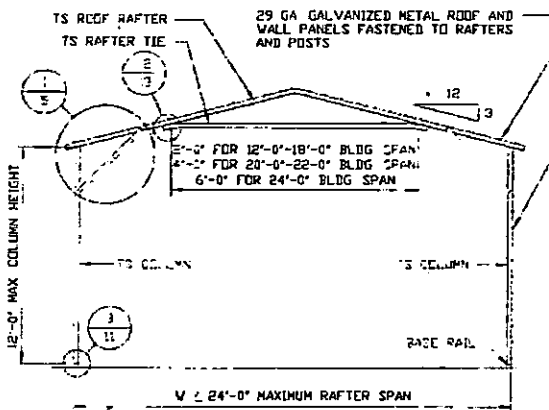
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TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS

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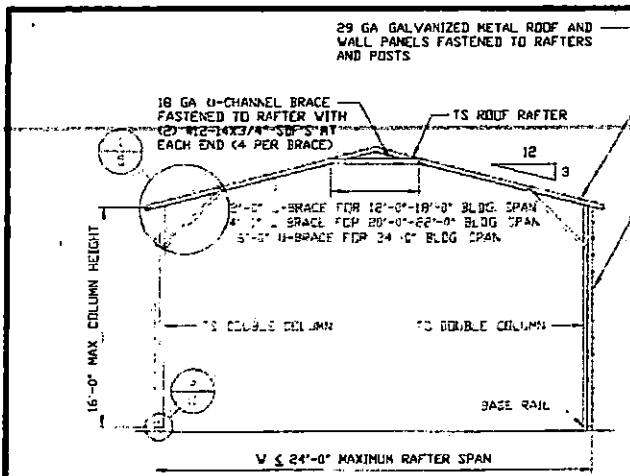
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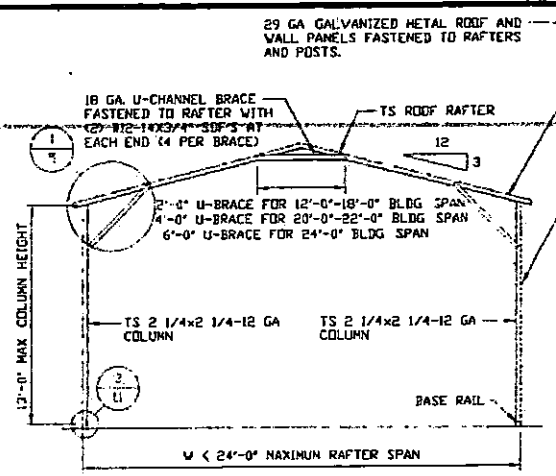
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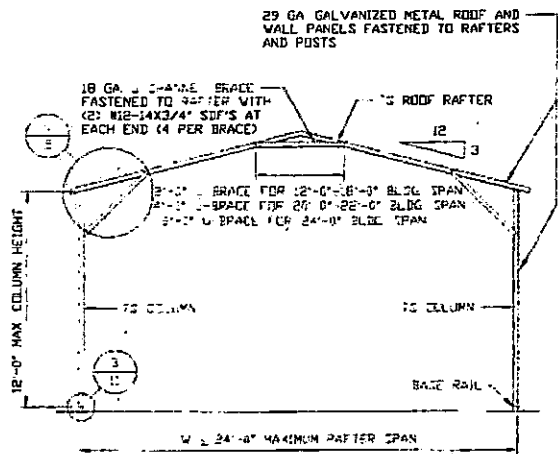
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TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



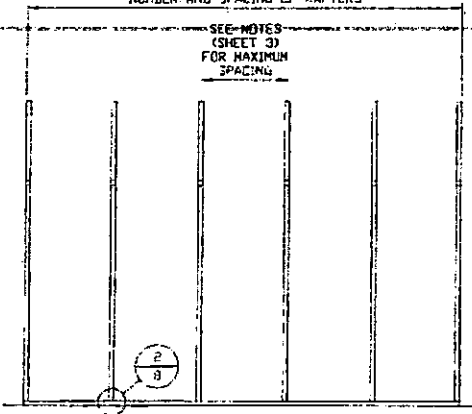
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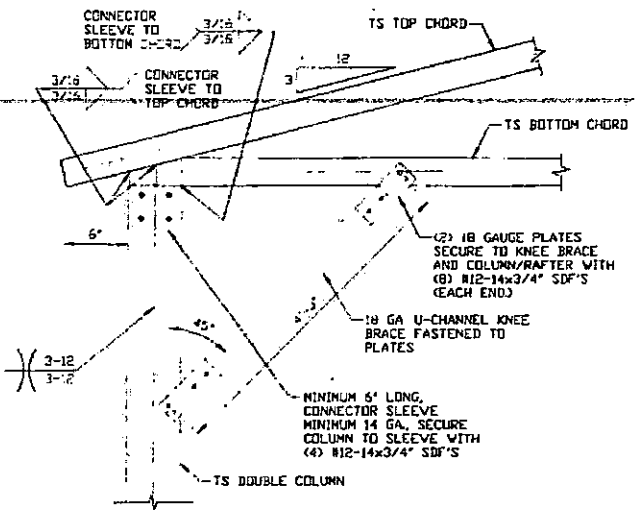
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LENGTH VARIES DEPENDING ON
NUMBER AND SPACING OF RAFTERS

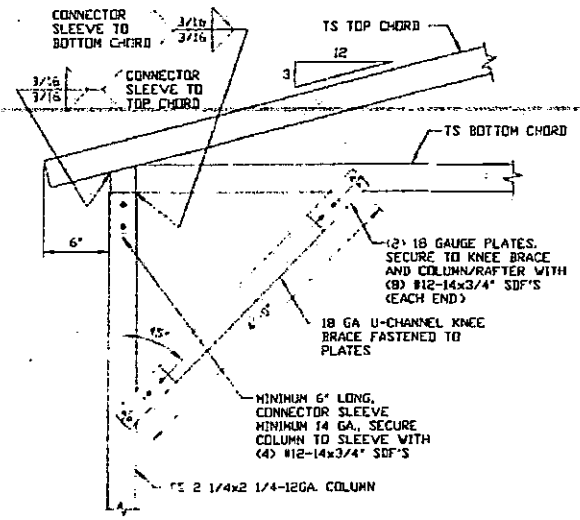


TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
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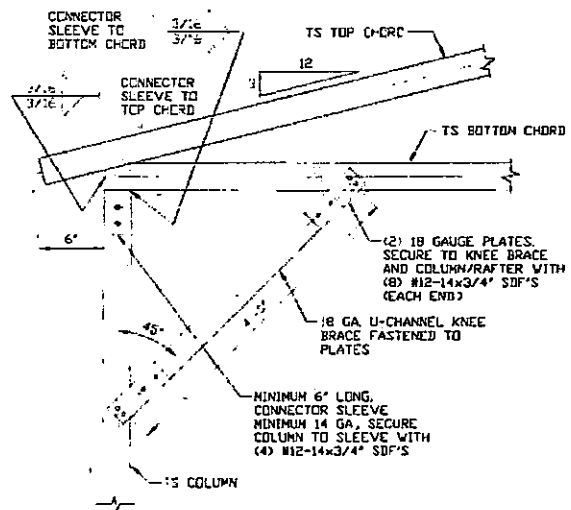
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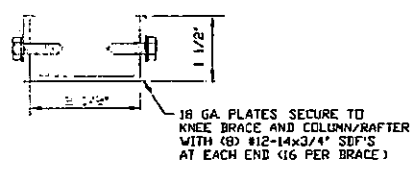
1A
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 13'-0" < TO <= 16'-0"
 SCALE: NTS



1B
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 12'-0" < TO <= 13'-0"
 SCALE: NTS



1C
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 10'-0" < TO <= 12'-0"
 SCALE: NTS



BRACE SECTION
 SCALE: NTS

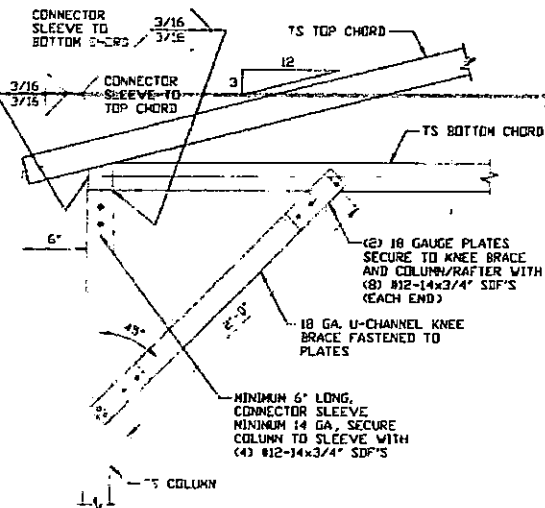
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**BOX EAVE RAFTER COLUMN
CONNECTION DETAIL FOR
HEIGHTS ≤ 10'-0"**

1D

SCALE: NTS



BRACE SECTION

SCALE: NTS

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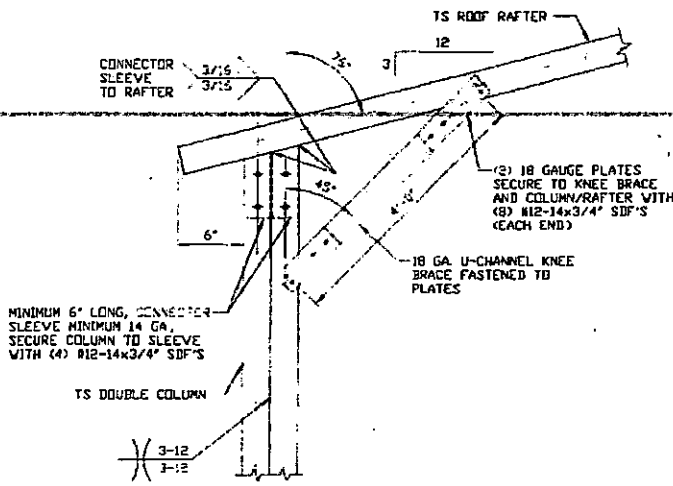
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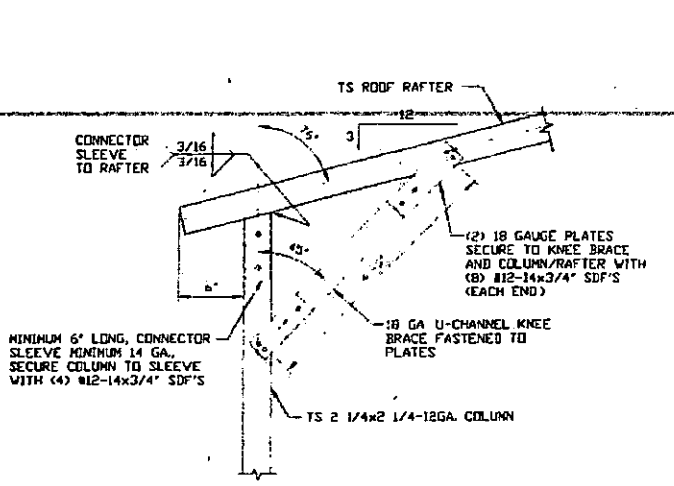
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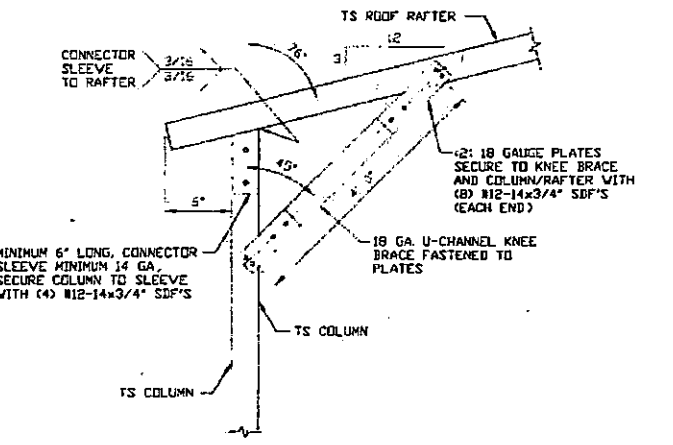
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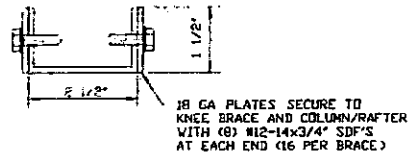
1E BOX EAVE RAFTER COLUMN CONNECTION
 DETAIL FOR HEIGHTS 13'-0" < TO ≤ 16'-0"
 SCALE: NTS



1F BOX EAVE RAFTER COLUMN CONNECTION
 DETAIL FOR HEIGHTS 12'-0" < TO ≤ 13'-0"
 SCALE: NTS

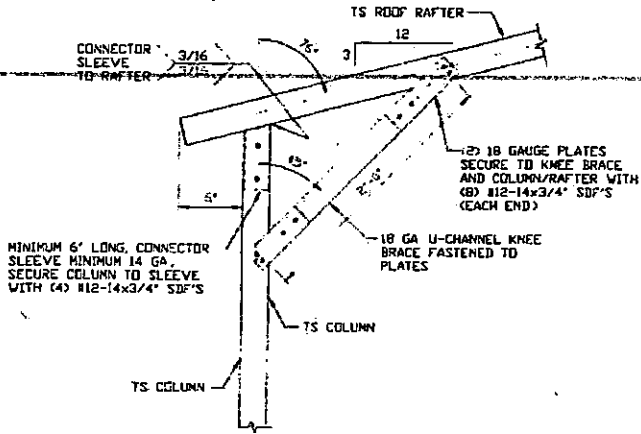


1G BOX EAVE RAFTER COLUMN CONNECTION
 DETAIL FOR HEIGHTS 10'-0" < TO ≤ 12'-0"
 SCALE: NTS



BRACE SECTION
 SCALE: NTS

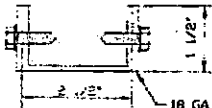
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**BOX EAVE RAFTER COLUMN CONNECTION
DETAIL FOR HEIGHTS $\leq 10'-0"$**

1H

SCALE: NTS



BRACE SECTION

SCALE: NTS

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PROJECT: MGR VSM

CLIENT: QUALITY/A PLUS

QUALITY COMMERCIAL STRUCTURES / A PLUS
P.O. BOX 1448
PILOT MOUNTAIN, NC 27041
30'x16' ENCLOSED BUILDING

DATE: 1-24-18

SCALE: NTS

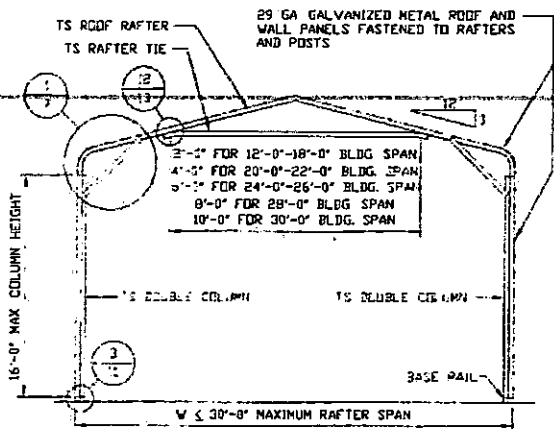
JOB NO: 1727SS

SHT. 5C

DWG. NO: SK-3

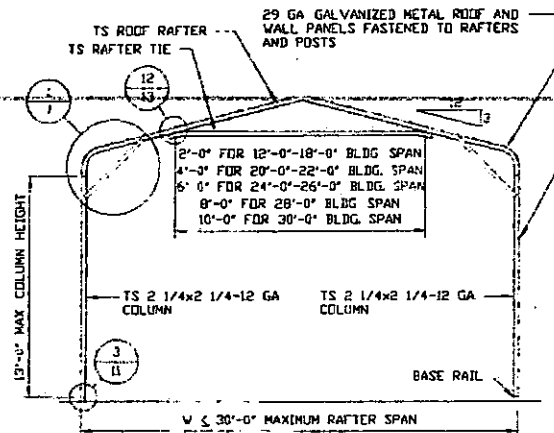
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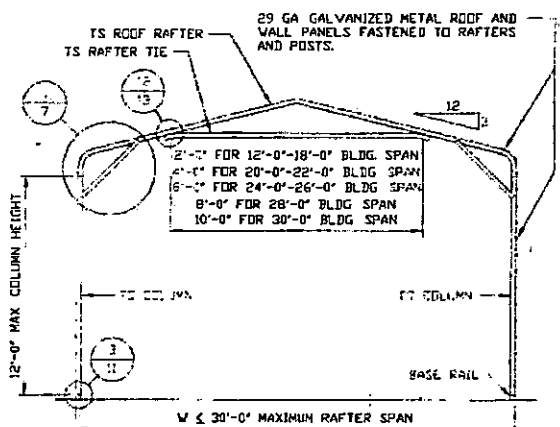
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS

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P.O. BOX 1448
PILOT MOUNTAIN, NC 27041
30'x16' ENCLOSED BUILDING

DATE: 1-24-18

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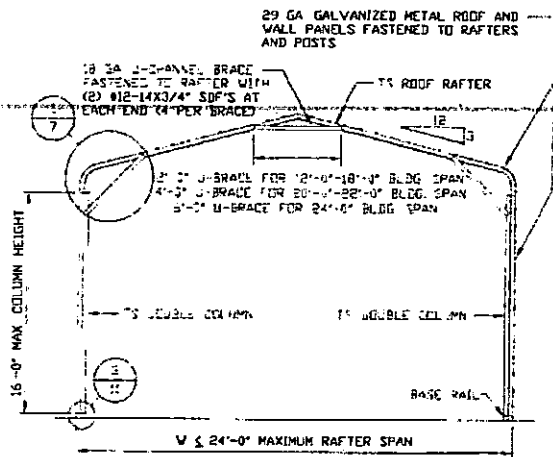
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SHT. 6

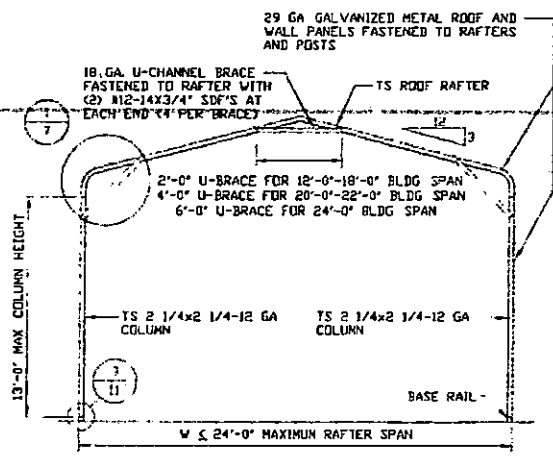
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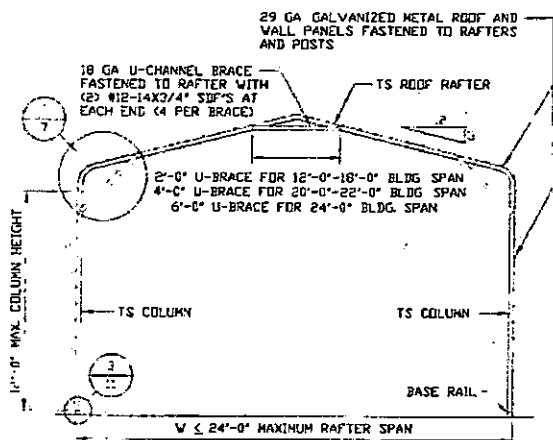
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TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS

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SCALE: NTS

JOB NO: 172755

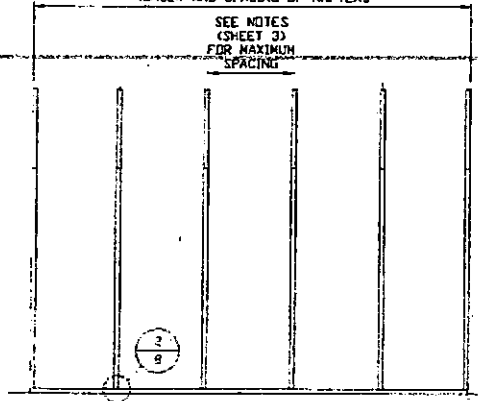
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LENGTH VARIES DEPENDING ON
NUMBER AND SPACING OF RAFTERS

SEE NOTES
(SHEET 3)
FOR MAXIMUM
SPACING



TYPICAL RAFTER/COLUMN FRAMING SIDE SECTION

SCALE: NTS

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30'x16' ENCLOSED BUILDING**

DATE: 1-24-18

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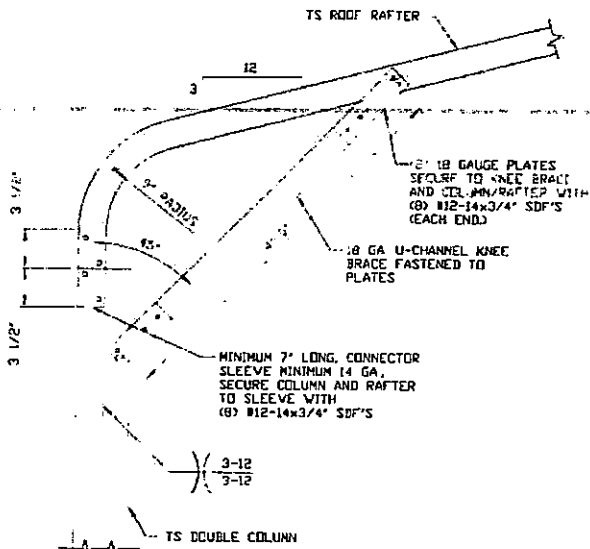
JOB NO: 17275S

SHT. 6B

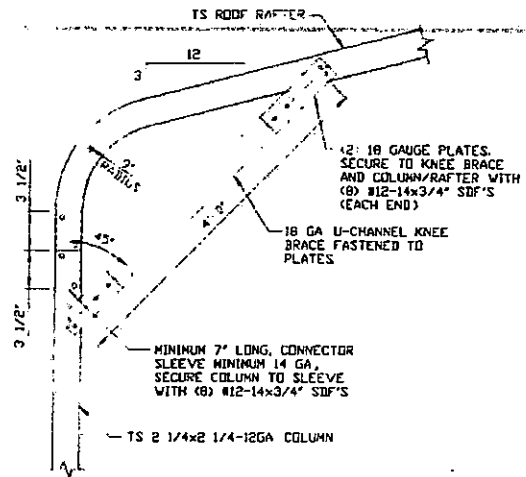
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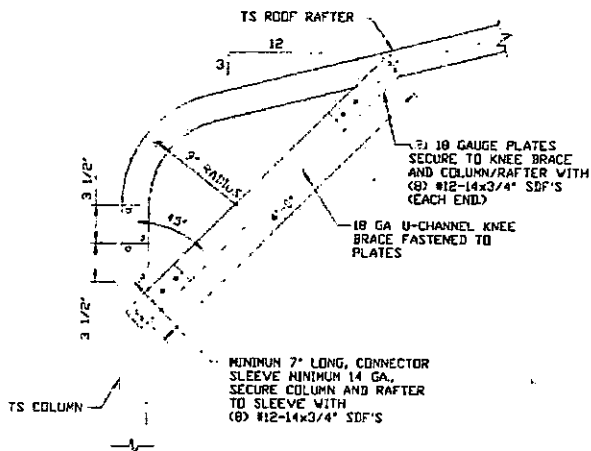
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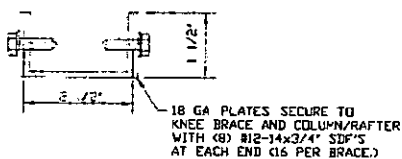
1A BOW EAVE RAFTER COLUMN CONNECTION
 DETAIL FOR HEIGHTS 13'-0" < TO <= 16'-0"
 SCALE: NTS



1B BOW EAVE RAFTER COLUMN CONNECTION
 DETAIL FOR HEIGHTS 12'-0" < TO <= 13'-0"
 SCALE: NTS



1C BOW EAVE RAFTER COLUMN CONNECTION
 DETAIL FOR HEIGHTS 10'-0" < TO <= 12'-0"
 SCALE: NTS



BRACE SECTION
 SCALE: NTS

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 P.O. BOX 1448
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 30'x16' ENCLOSED BUILDING

DATE: 1-24-18

SCALE: NTS

JOB NO: 1727SS

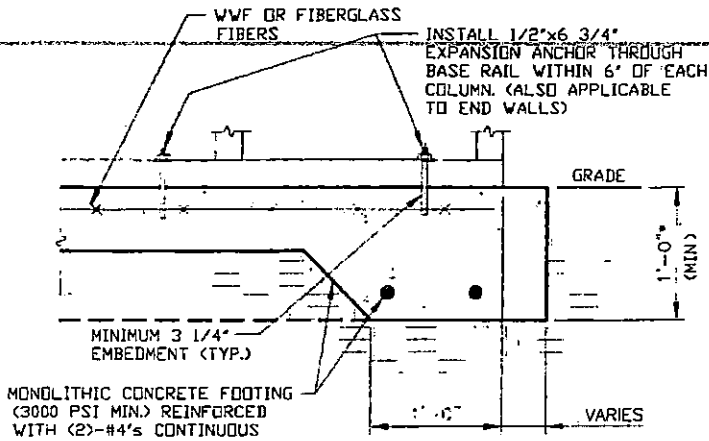
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DWG. NO: SK-3

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BASE RAIL ANCHORAGE OPTIONS

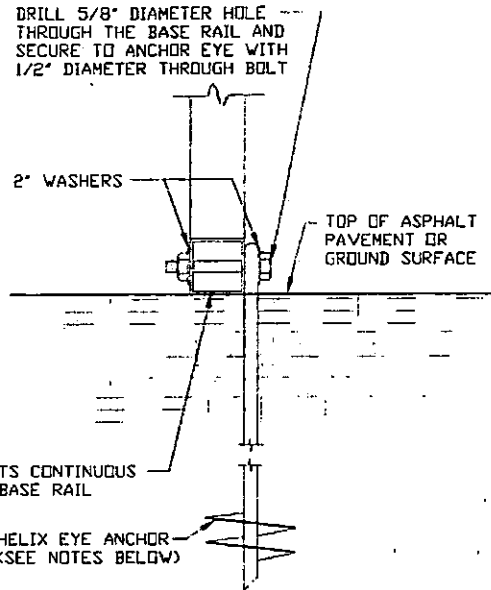


2A

CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

SCALE: NTS
MINIMUM ANCHOR EDGE DISTANCE IS 4"

* COORDINATE WITH LOCAL BUILDING CODE
AND/OR BUILDING OFFICIAL REGARDING
REQUIRED FOOTING DEPTH.



2B

GROUND BASE HELIX ANCHORAGE

SCALE: NTS (CAN BE USED FOR ASPHALT)

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 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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JOB NO: 17273S

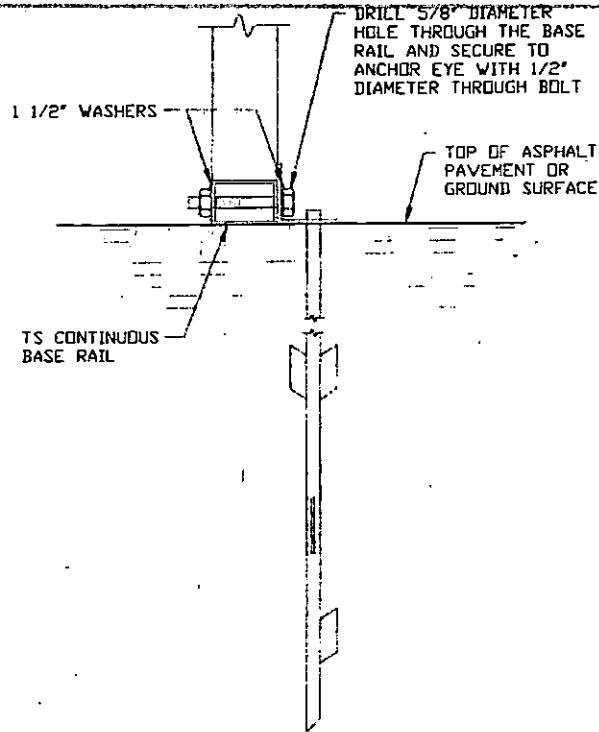
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BASE RAIL ANCHORAGE OPTIONS



2C
ASPHALT BASE ANCHORAGE
 SCALE: NTS

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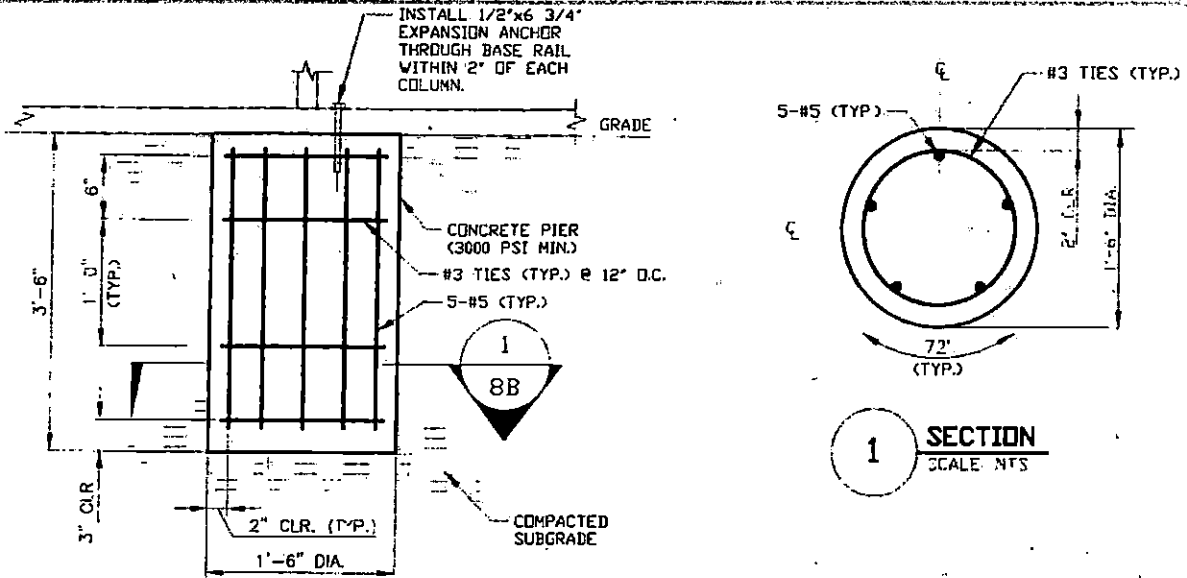
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CLIENT: QUALITY/A PLUS	SHT.: 8A	DWG. NO.: SK-3	REV.: 0

BASE RAIL ANCHORAGE OPTIONS

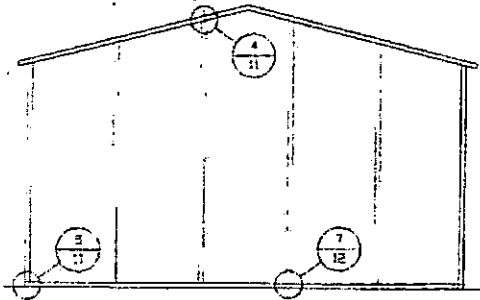


2D DRILLED CONCRETE PIER BASE RAIL ANCHORAGE
 SCALE: NTS
 (NOTE: MIN. ANCHOR EDGE DISTANCE IS 4")

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BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS

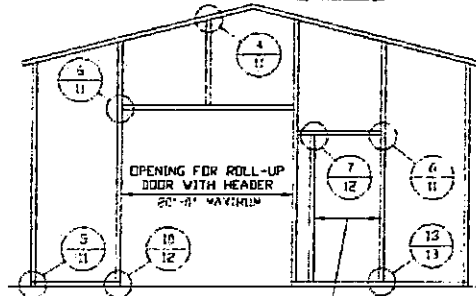
SEE NOTES
(SHEET 3)
FOR MAXIMUM
SPACING



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

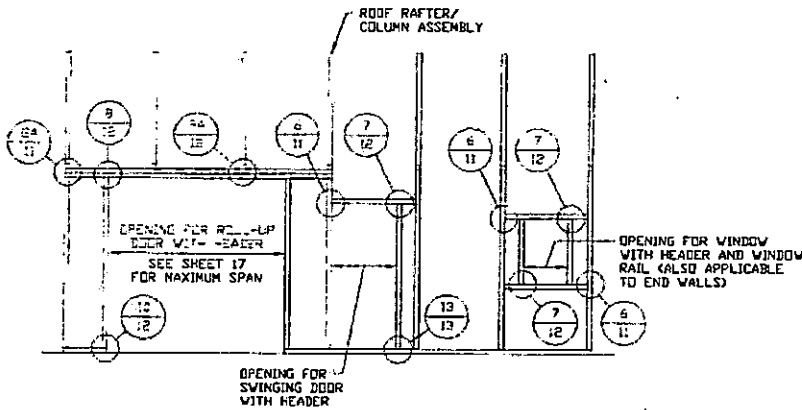
SCALE: NTS

SEE NOTES
(SHEET 3)
FOR MAXIMUM
SPACING



**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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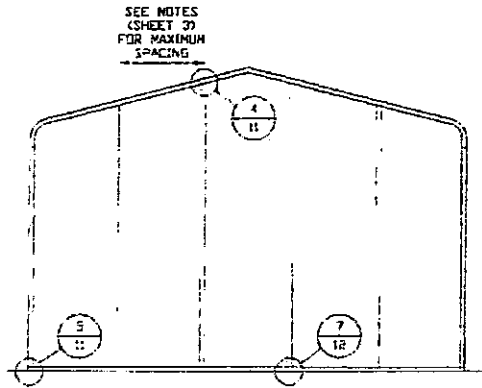
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DWG. NO: SK-3

REV: 0

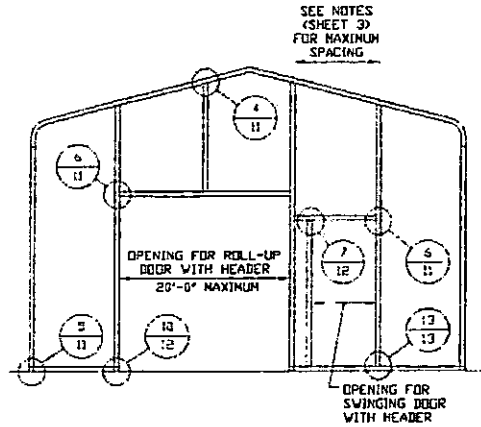
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BOW RAFTER END WALL AND SIDE WALL OPENINGS



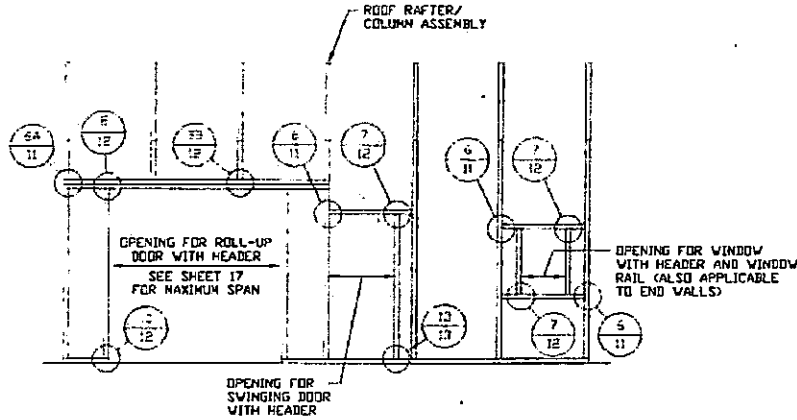
**TYPICAL BOW RAFTER
END WALL FRAMING SECTION**

SCALE: NTS



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

SCALE: NTS



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

SCALE: NTS

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SCALE: NTS

JOB NO.: 172755

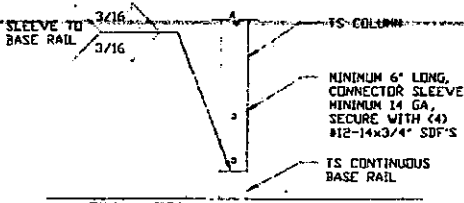
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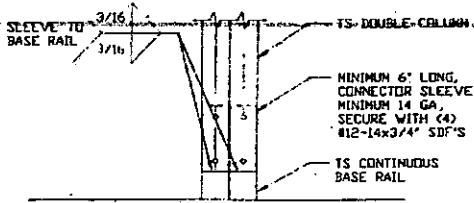
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CONNECTION DETAILS



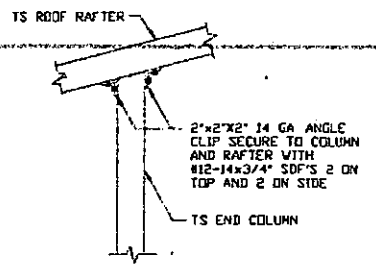
3 RAFTER COLUMN/BASE RAIL CONNECTION DETAIL

SCALE: NTS



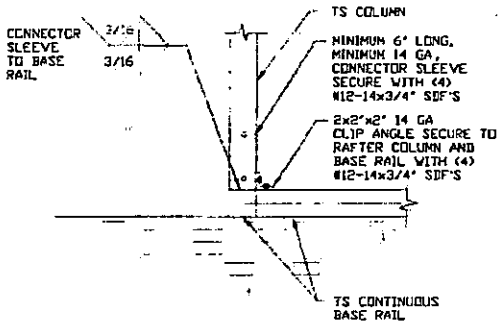
3A RAFTER COLUMN/BASE RAIL CONNECTION DETAIL

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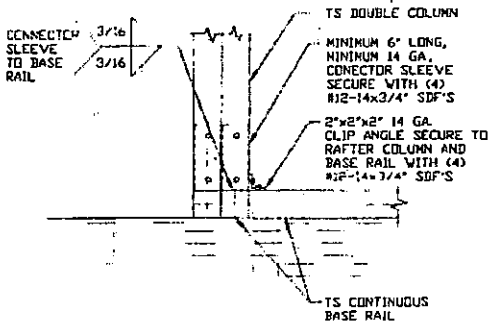
4 END COLUMN/RAFTER CONNECTION DETAIL

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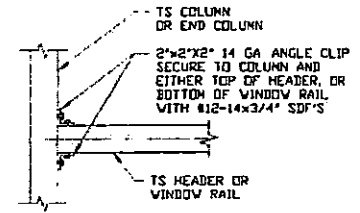
5 END COLUMN/BASE RAIL CONNECTION DETAIL

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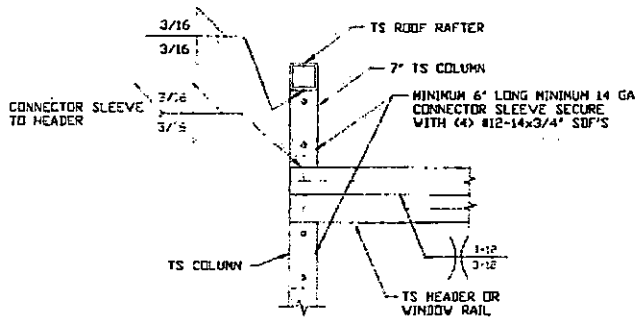
5A END COLUMN/BASE RAIL CONNECTION DETAIL

SCALE: NTS



6 COLUMN OR WINDOW RAIL TO POST CONNECTION DETAIL

SCALE: NTS



6A COLUMN OR WINDOW RAIL TO POST CONNECTION DETAIL

SCALE: NTS

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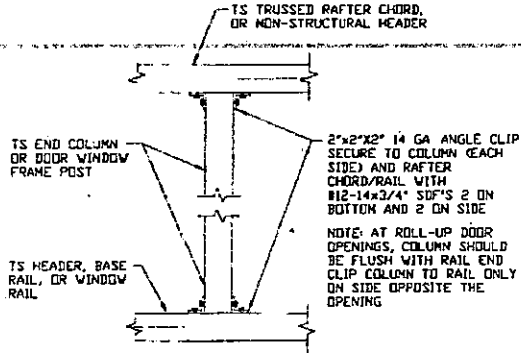
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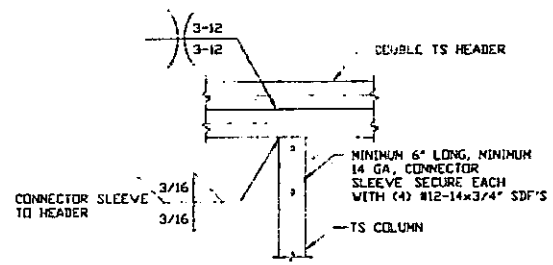
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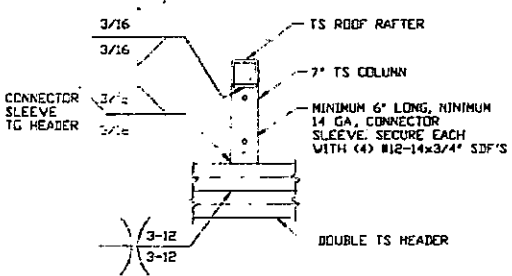
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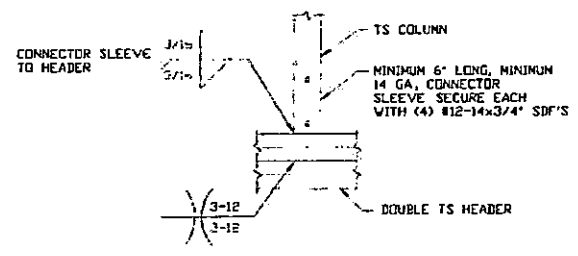
7 COLUMN TO WINDOW RAIL CONNECTION DETAIL
SCALE: NTS



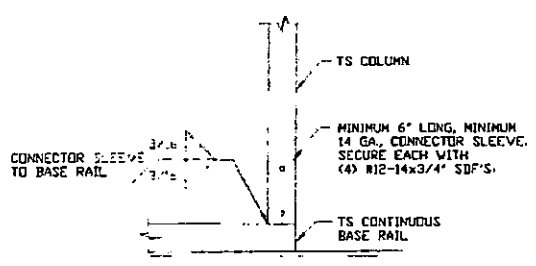
8 DOUBLE HEADER/COLUMN CONNECTION DETAIL
SCALE: NTS



9A COLUMN/DOUBLE HEADER CONNECTION DETAIL
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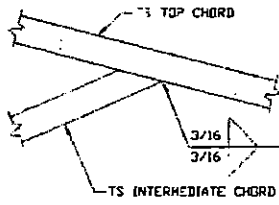
9B COLUMN/DOUBLE HEADER CONNECTION DETAIL
SCALE: NTS



10 COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS

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	CLIENT: QUALITY/A PLUS	SHT. 12	DWG. NO: SK-3	REV: 0

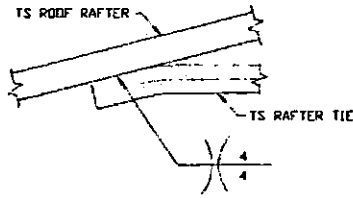
CONNECTION DETAILS



TOP CHORD TO INTERMEDIATE CHORD CONNECTION DETAIL

11

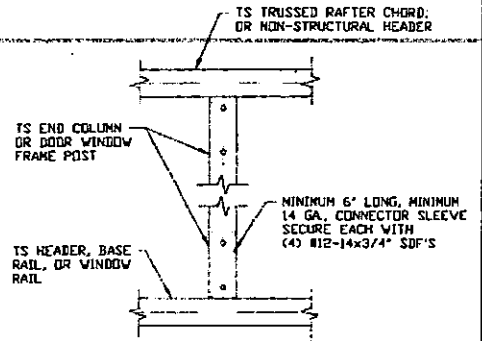
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RAFTER TIE CONNECTION DETAIL

12

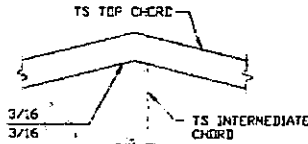
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COLUMN TO HEADER OR BASE RAIL CONNECTION DETAIL

13

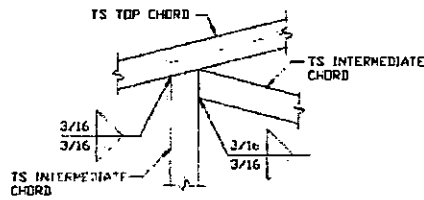
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TOP CHORD TO INTERMEDIATE CHORD CONNECTION DETAIL

14

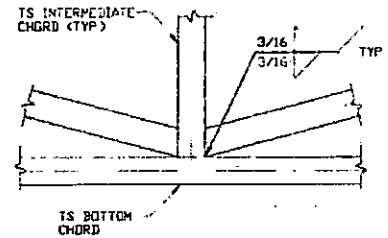
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TOP CHORD TO INTERMEDIATE CHORD CONNECTION DETAIL

15

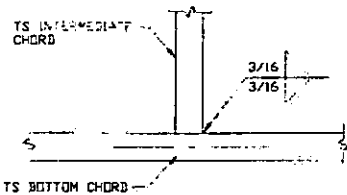
SCALE: NTS



BOTTOM CHORD TO INTERMEDIATE CHORD CONNECTION DETAIL

16

SCALE: NTS



BOTTOM CHORD TO CHORD CONNECTION DETAIL

17

SCALE: NTS

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PROJECT MGR: WSH

CLIENT: QUALITY/A PLUS

QUALITY COMMERCIAL STRUCTURES / A PLUS
P.O. BOX 1448
PILOT MOUNTAIN, NC 27041
30'x16' ENCLOSED BUILDING

DATE: 1-24-18

SCALE: NTS

JOB NO: 1727SS

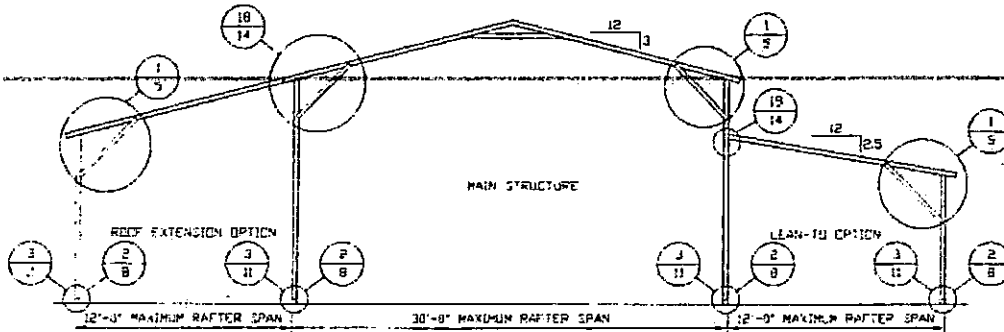
SHT. 13

DWG. NO: SK-3

REV. 0

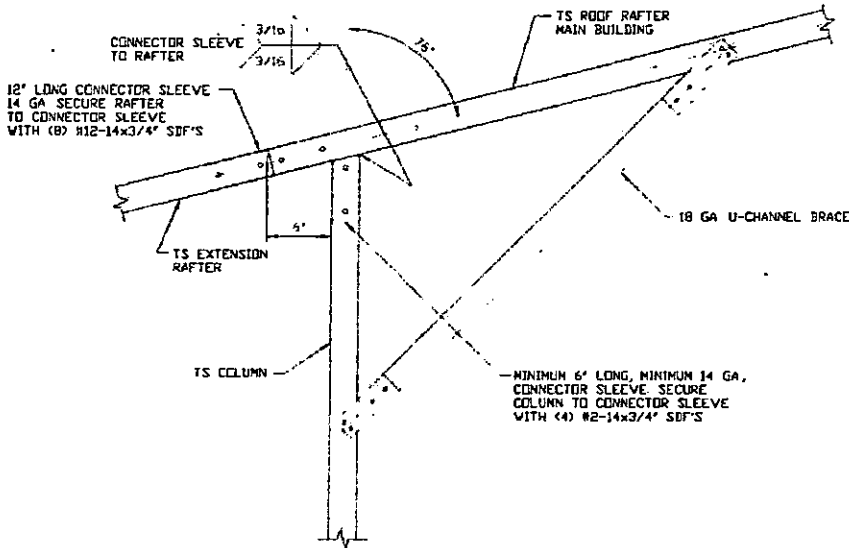
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BOX EAVE RAFTER LEAN-TO OPTION

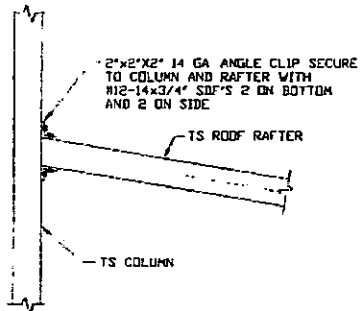


TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)

SCALE: NTS



18 SIDE EXTENSION RAFTER/COLUMN DETAIL
SCALE: NTS



19 LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL
SCALE: NTS

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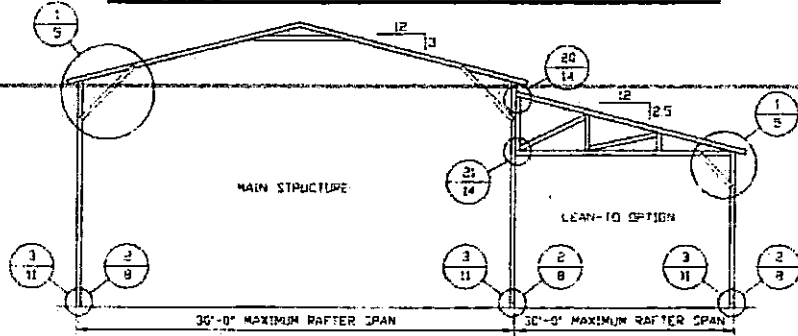
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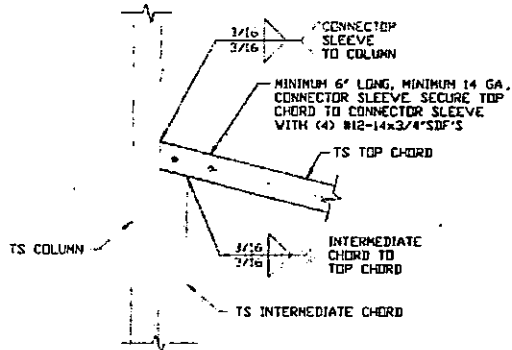
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CLIENT: QUALITY/A PLUS	SHT. 14	DWG. NO: SK-3	REV: 0

BOX EAVE RAFTER LEAN-TO OPTION



TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION

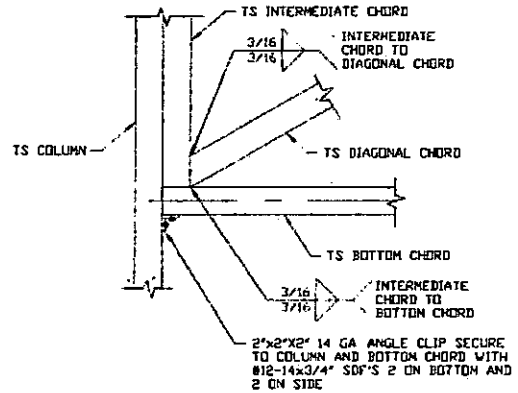
SCALE: NTS



20

LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL

SCALE: NTS



21

LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL

SCALE: NTS

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30'x16' ENCLOSED BUILDING

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SCALE: NTS

JOB NO: 1727SS

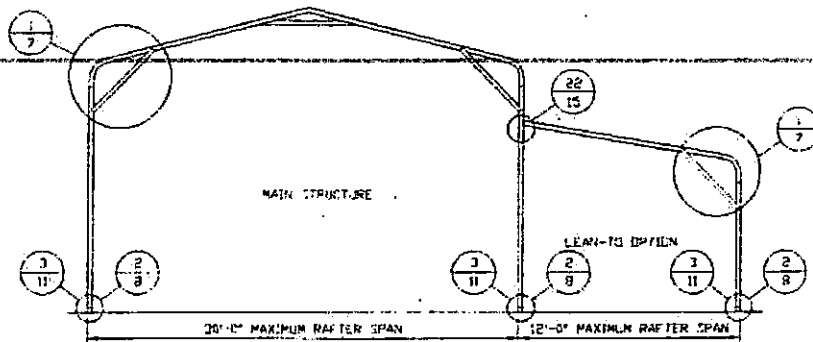
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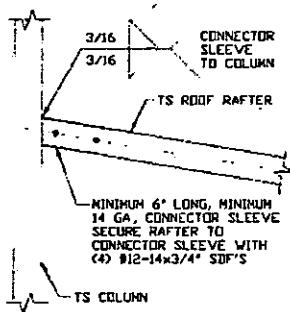
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BOW EAVE RAFTER LEAN-TO OPTION



TYPICAL BOW RAFTER LEAN-TO OPTION FRAMING SECTION

SCALE: NTS



LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL

22

SCALE: NTS

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DATE: 1-24-18

SCALE: NTS

JOB NO: 172755

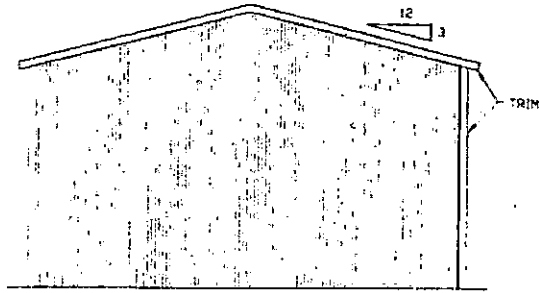
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DWG. NO: SK-3

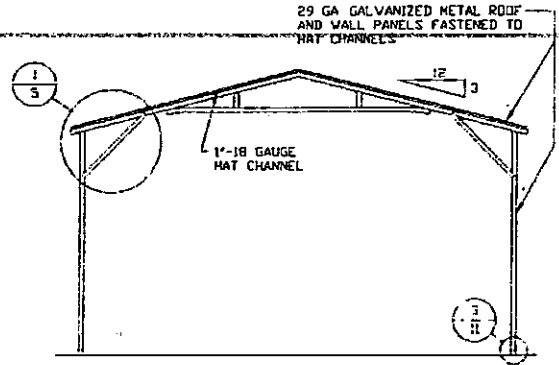
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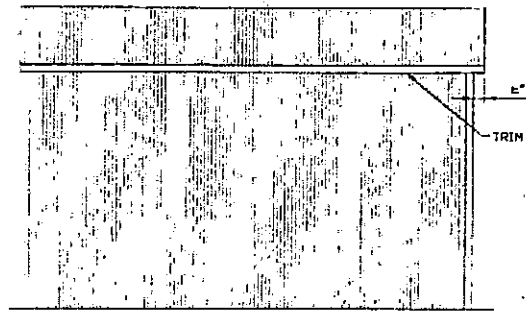
BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



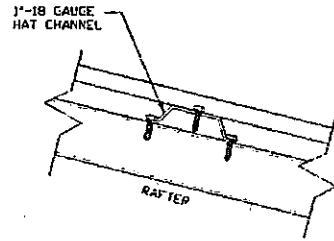
**TYPICAL END ELEVATION
VERTICAL ROOF/SIDING**
SCALE: NTS



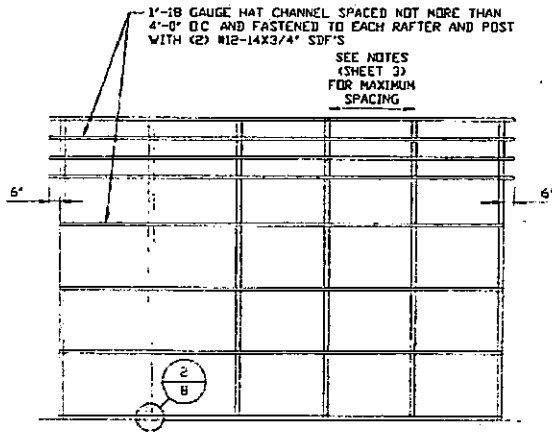
**TYPICAL SECTION VERTICAL
ROOF/SIDING OPTION**
SCALE: NTS



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



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



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

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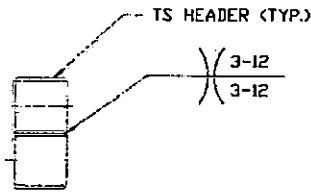
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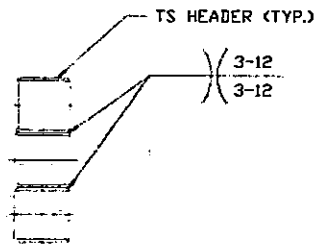
PROJECT MGR: WSH	DATE: 1-24-18	SCALE: NTS	JOB NO: 1727SS
CLIENT: QUALITY/A PLUS	SHT. 16	DWG. NO: SK-3	REV: 0

HEADER OPTION



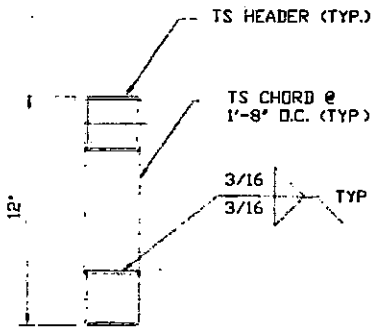
HEADER DETAIL FOR SPANS:
 $\leq 12'-0"$ (FOR GROUND SNOW LOAD ≤ 35 PSF)
 $\leq 10'-0"$ (FOR GROUND SNOW LOAD 35 PSF $< TO \leq 45$ PSF)

SCALE: NTS



HEADER DETAIL FOR SPANS:
 $12'-0" < TO \leq 16'-0"$ (FOR GROUND SNOW LOAD ≤ 35 PSF)
 $10'-0" < TO \leq 14'-0"$ (FOR GROUND SNOW LOAD
35 PSF $< TO \leq 45$ PSF)

SCALE: NTS



HEADER DETAIL FOR SPANS:
 $16'-0" < TO \leq 20'-0"$ (FOR GROUND SNOW LOAD ≤ 35 PSF)
 $14'-0" < TO \leq 20'-0"$ (FOR GROUND SNOW LOAD
35 PSF $< TO \leq 45$ PSF)

SCALE: NTS

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