


NOTICE TO CONTRACTOR
 All construction must comply with current NC Building Codes and is subject to field inspection and verification.

APPROVED
 Limited building only review.
 Permit holder responsible for full compliance with the code.

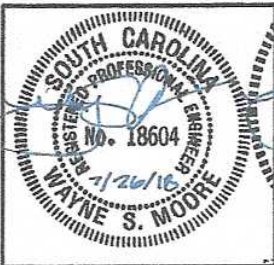


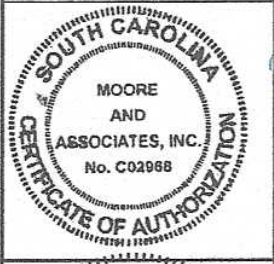
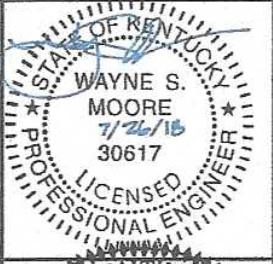



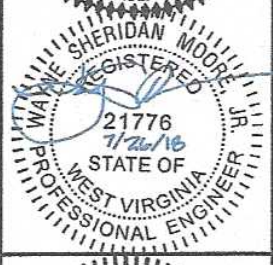


06/29/2020

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	CLIENT: JR BUILDINGS	SHT. 2	DWG. NO: SK-3	REV. 0

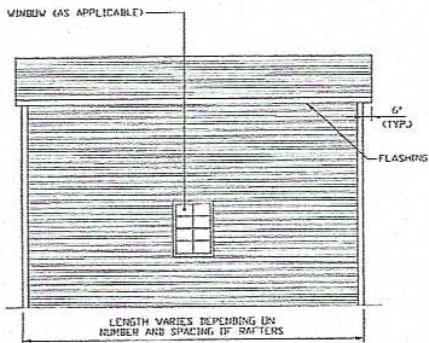
			
			
			
			
			
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<p>PROJECT MGR: WSH</p>	<p>Date: 10-22-2019</p>	<p>SCALE: NTS</p>	<p>JOB NO: 18184S</p>
<p>CLIENT: JR BUILDINGS</p>	<p>SHT. 1</p>	<p>DWG. NO: SK-3</p>	<p>REV: 0</p>

INSTALLATION NOTES AND SPECIFICATIONS

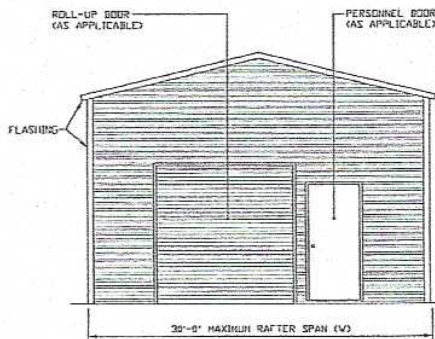
1. DESIGN IS FOR MAXIMUM 30'-0" WIDE x 16'-0" EAVE HEIGHT ENCLOSED STRUCTURES.
2. DESIGN WAS DONE IN ACCORDANCE WITH THE 2012 NORTH CAROLINA BUILDING CODE, 2009 INTERNATIONAL BUILDING CODE (IBC), 2012 IBC AND 2015 IBC.
3. DESIGN LOADS ARE AS FOLLOWS:
 - A) DEAD LOAD = 1.5 PSF
 - B) LIVE LOAD = 12 PSF
 - C) GROUND SNOW LOAD = 35 PSF
 - = 30 PSF (W ≤ 24'-0" WITH U-CHANNEL COLLAR TIE)
4. 3-SECOND GUST ULTIMATE WIND SPEED (V_{ULT}) 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) = 8 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. GROUND ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6' OF EACH COLUMN.
13. STANDARD SOIL NAIL FOUNDATION SYSTEM CONSIST OF #4 REBAR W/ WELDED NUT x 36" LONG AND ARE APPLICABLE ONLY IN MEDIUM TO STIFF SOILS (SUITABLE SOIL). OPTIONAL FOUNDATION SYSTEMS MAY BE USED IN SUITABLE SOILS AND MUST BE USED IN UNSUITABLE SOILS AS NOTED.
14. 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_{0.5} = 1.522 V = C_sW
 - S_H = 0.839

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	CLIENT: JR BUILDINGS	SHT. 3A	DWG. NO: SK-3	REV: 0

BOX EAVE FRAME RAFTER STRUCTURE

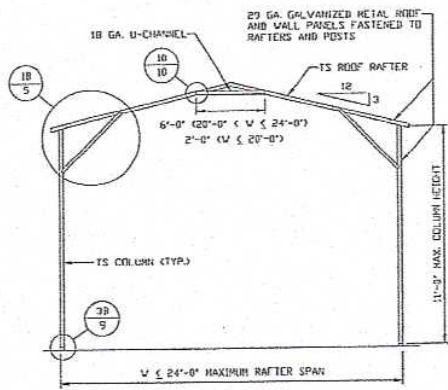


TYPICAL SIDE ELEVATION
SCALE: NTS

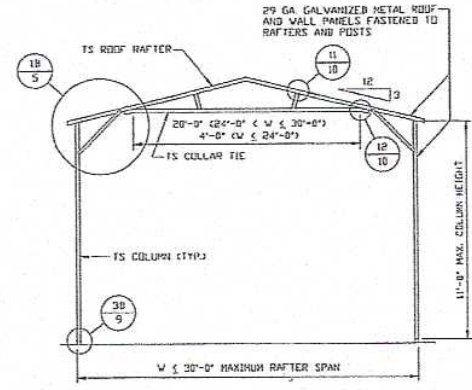


TYPICAL END ELEVATION
SCALE: NTS

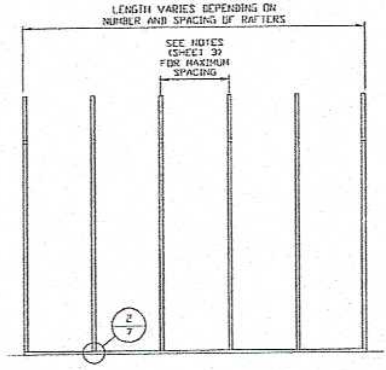
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TYPICAL RAFTER/COLUMN FRAME SECTION
 SCALE: NTS

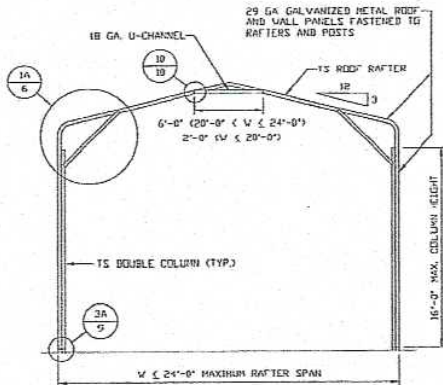


TYPICAL RAFTER/COLUMN FRAME SECTION
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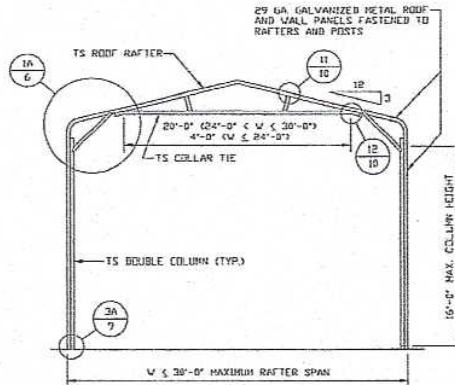


TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
 SCALE: NTS

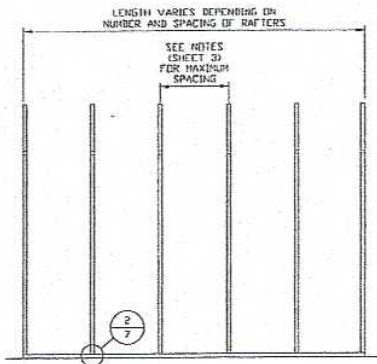
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	CLIENT: JR BUILDINGS	SHT. 4A	DWG. NO: SK-3	REV: 0



TYPICAL RAFTER/COLUMN FRAME SECTION
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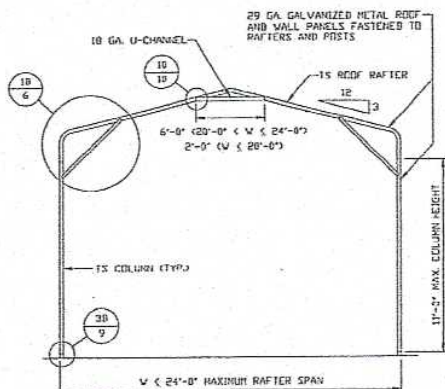


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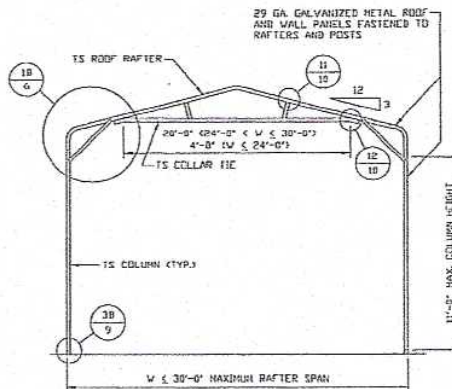


TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
SCALE: NTS

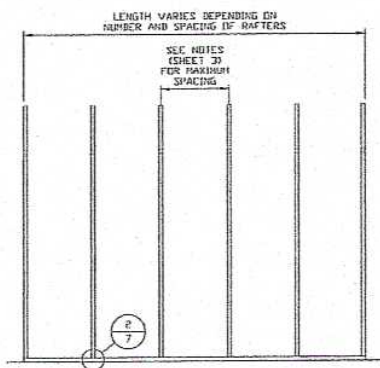
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TYPICAL RAFTER/COLUMN FRAME SECTION
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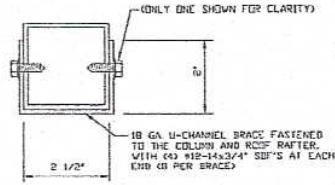
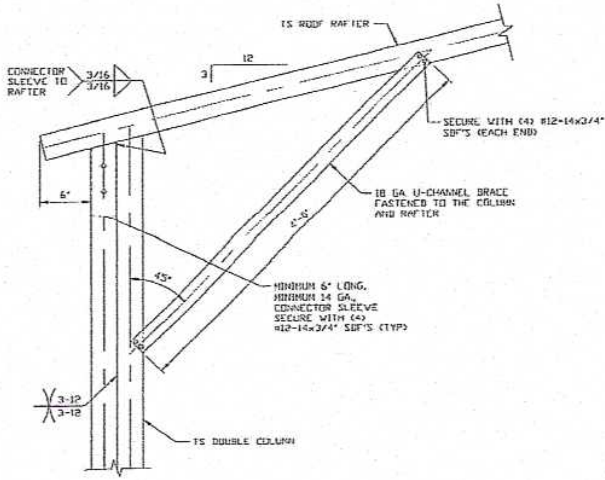


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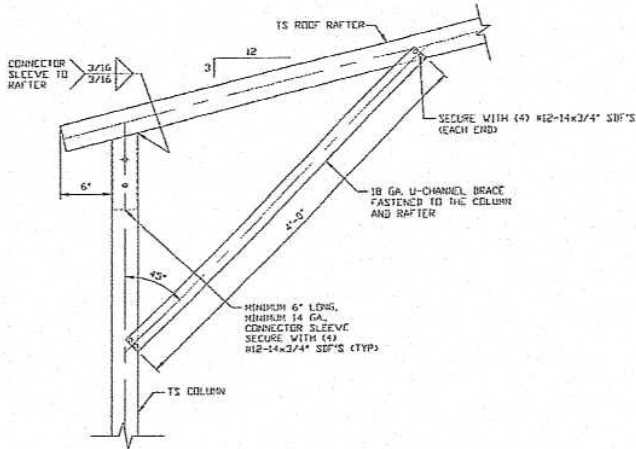
TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
SCALE: NTS

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	CLIENT: JR BUILDINGS	SHT. 4C	DWG. NO: SK-3	REV: 0



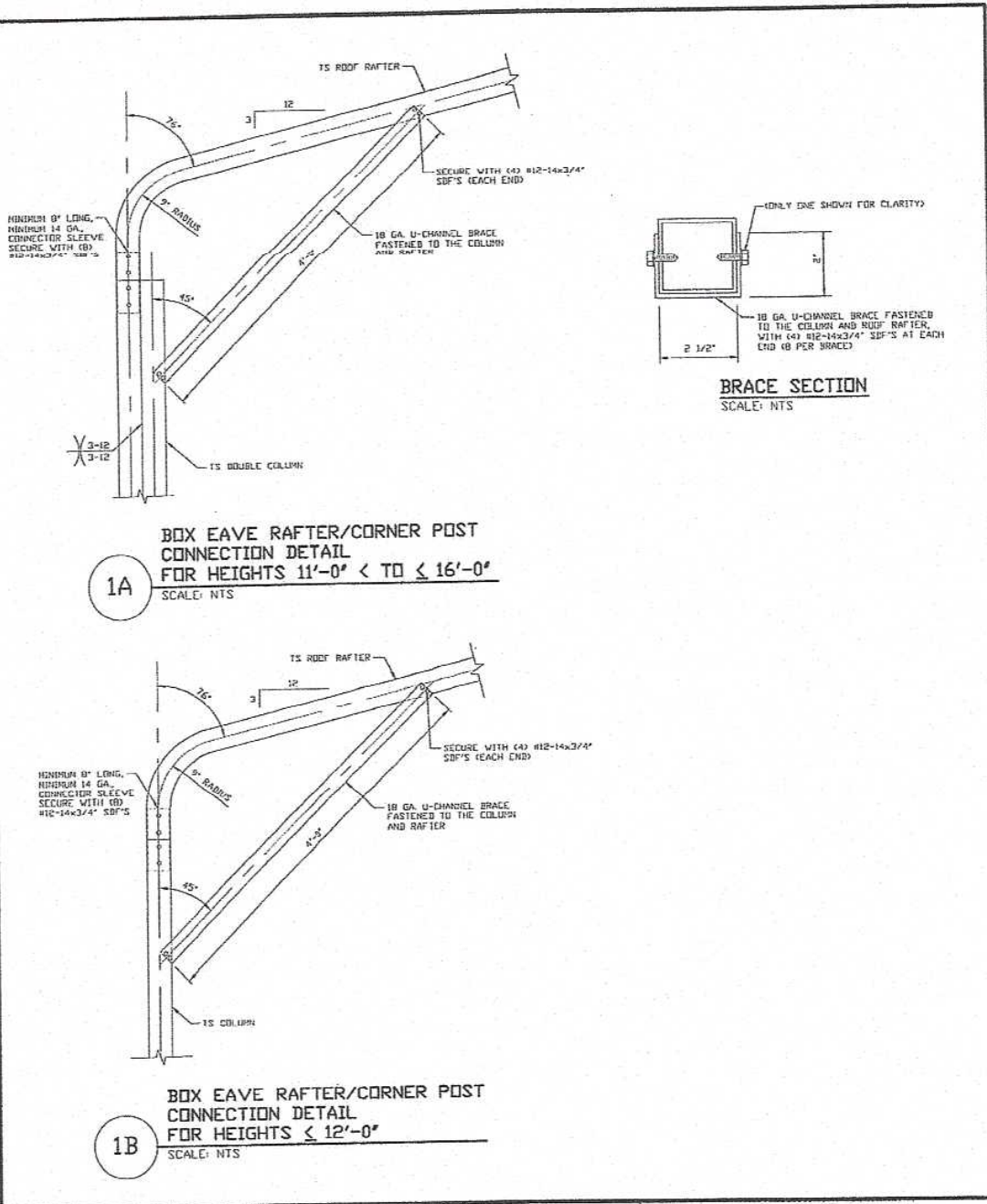
BRACE SECTION
SCALE: NTS

1A
BOX EAVE RAFTER/CORNER POST
CONNECTION DETAIL
FOR HEIGHTS 11'-0" < TO ≤ 16'-0"
SCALE: NTS



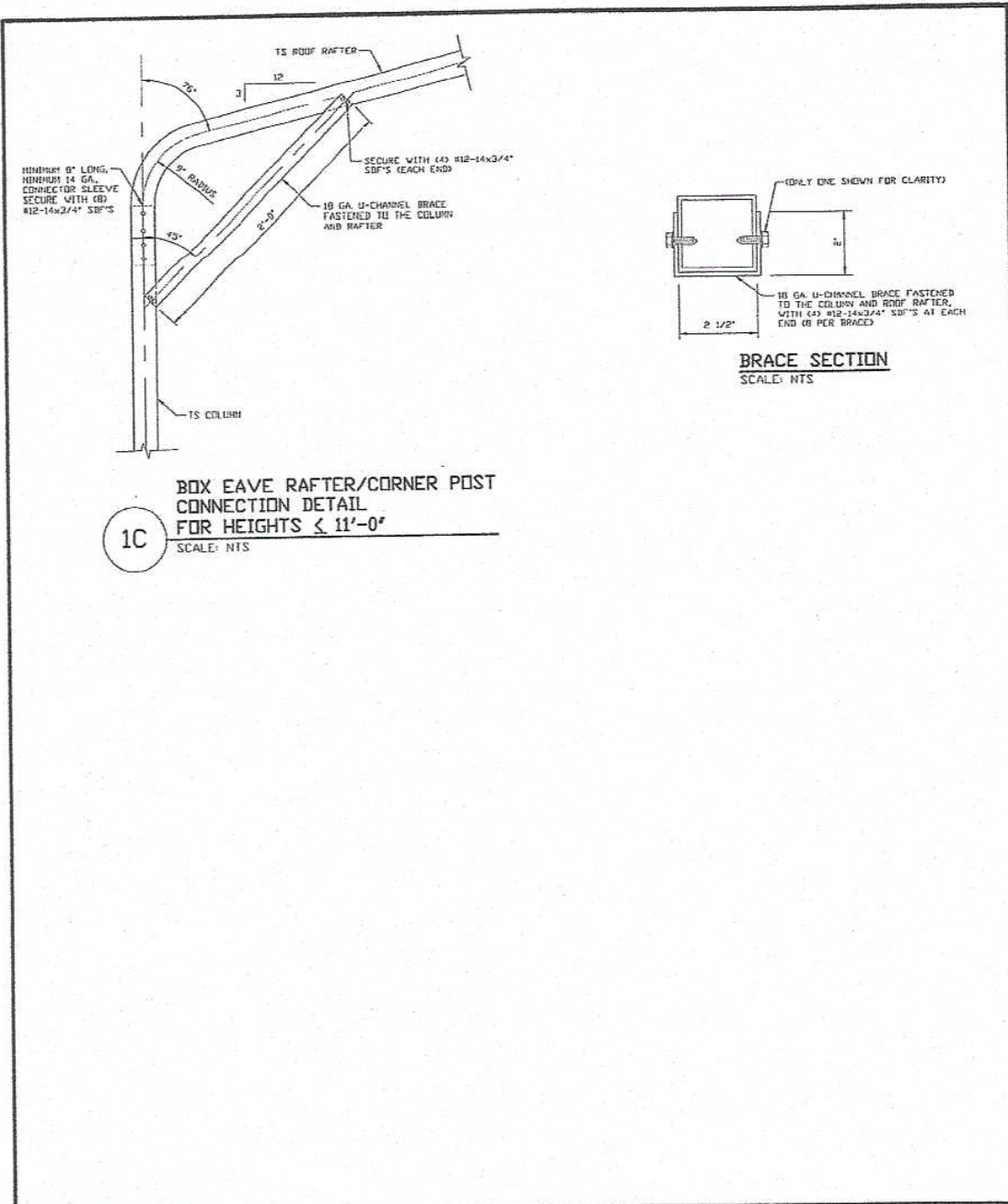
1B
BOX EAVE RAFTER/CORNER POST
CONNECTION DETAIL
FOR HEIGHTS ≤ 12'-0"
SCALE: NTS

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	CLIENT: JR BUILDINGS	SHT. 5	DWG. NO: SK-3	REV: 0

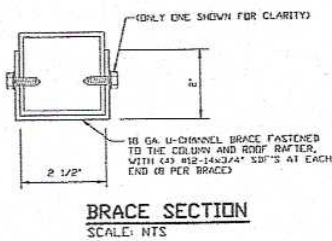


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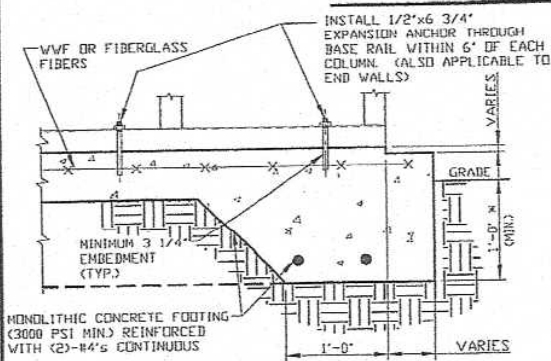


1C
BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL
FOR HEIGHTS ≤ 11'-0"
 SCALE: NTS

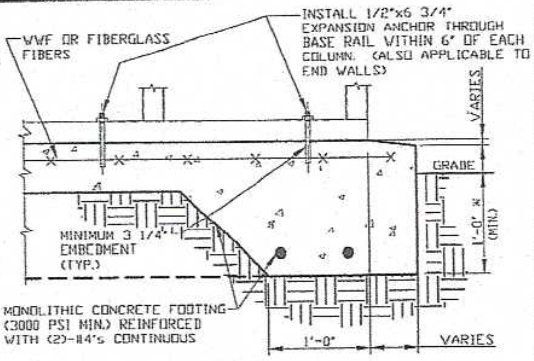


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	CLIENT: JR BUILDINGS	SHT. 6A	DWG. NO: SK-3	REV: 0

BASE RAIL ANCHORAGE OPTIONS



2A CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE
 SCALE: NTS
 MINIMUM ANCHOR EDGE DISTANCE IS 4".
 * COORDINATE WITH LOCAL CODES/ORD.



2B CONCRETE SLAB BASE RAIL ANCHORAGE
 SCALE: NTS
 MINIMUM ANCHOR EDGE DISTANCE IS 4".
 * COORDINATE WITH LOCAL CODES/ORD.

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.

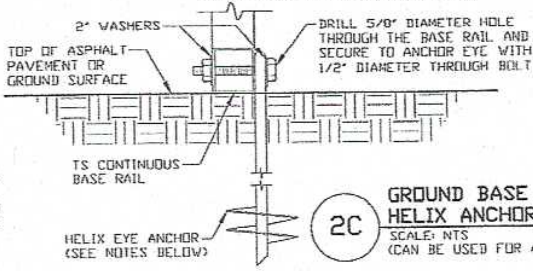
REINFORCING STEEL:
 THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

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:

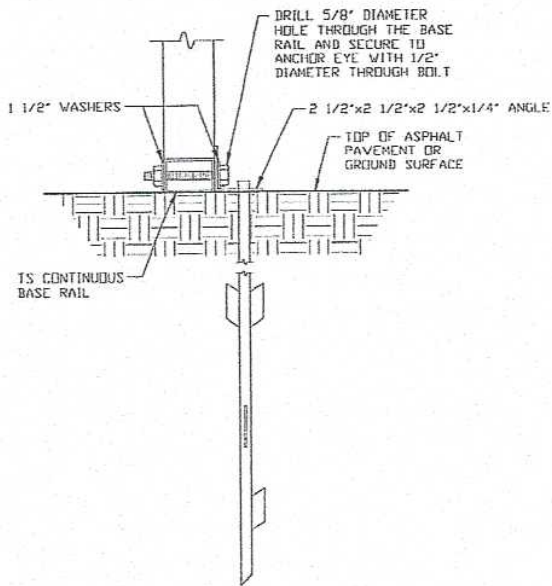
1. FOR VERY DENSE AND/OR CEMENTED SANDS, COARSE GRAVEL AND COBBLES, CALICHE, PRELOADED SILTS AND CLAYS, USE MINIMUM (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINGLE 6" HELIX WITH MINIMUM 50" EMBEDMENT.
2. FOR CORAL USE MINIMUM (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINGLE 6" HELIX WITH MINIMUM 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 LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER CLAYS AND SILTS, ALLUVIAL FILL, USE MINIMUM (2) 8" HELICES WITH MINIMUM 60" EMBEDMENT.



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

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	CLIENT: JR BUILDINGS	SHT. 7	DWG. NO: SK-3	REV: 0

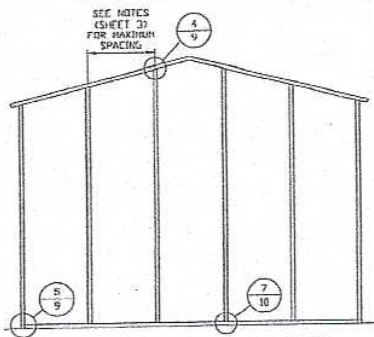
BASE RAIL ANCHORAGE OPTIONS



2D ASPHALT BASE ANCHORAGE
SCALE: NTS

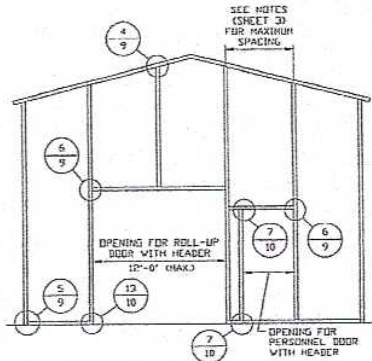
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	CLIENT: JR BUILDINGS	SHT. 7A	DWG. NO: SK-3	REV: 0

BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



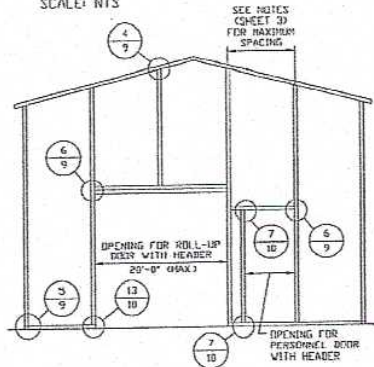
TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



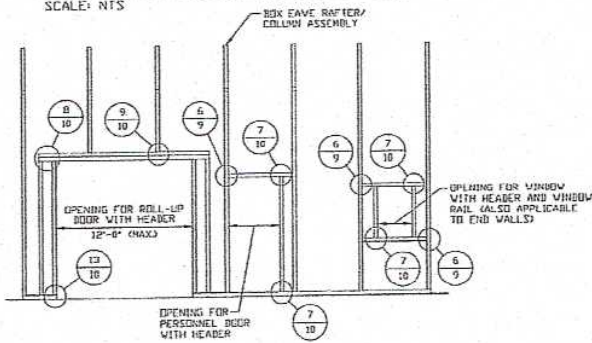
TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

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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PROJECT MGR: WSH

Date: 10-22-2019

SCALE: NTS

JOB NO: 181845

CLIENT: JR BUILDINGS

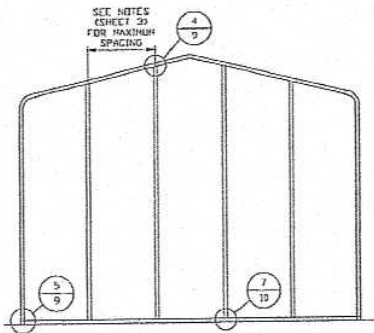
SHT. 8

DWG. NO: SK-3

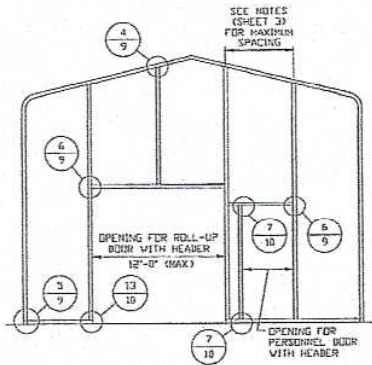
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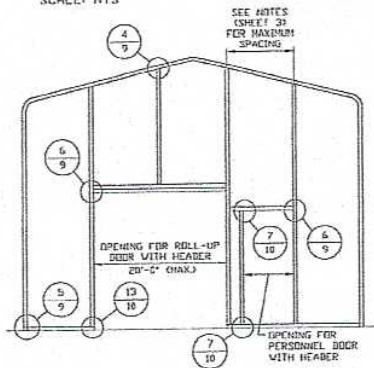
BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



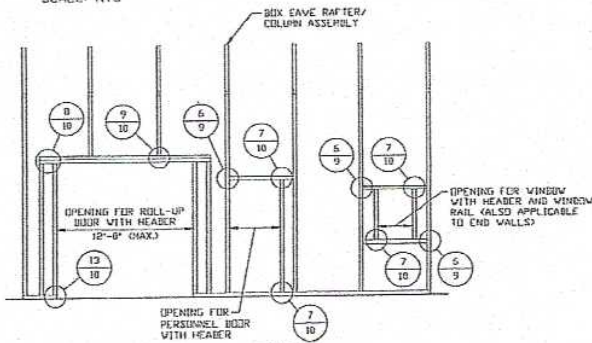
TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION
SCALE: NTS



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
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SCALE: NTS

JOB NO: 18184S

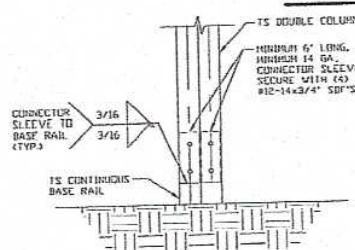
CLIENT: JR BUILDINGS

SHT. 0A

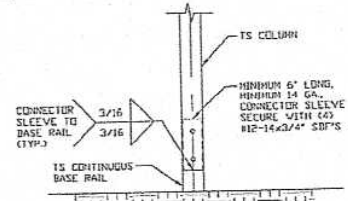
DWG. NO: SK-3

REV: 0

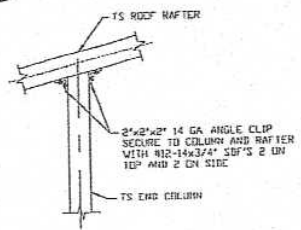
CONNECTION DETAILS



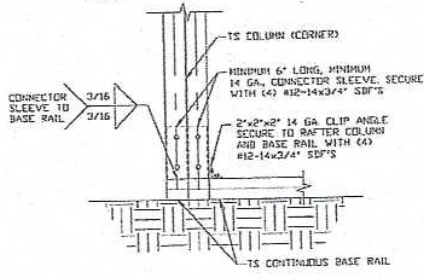
3A POST/BASE RAIL CONNECTION DETAIL
SCALE: NTS



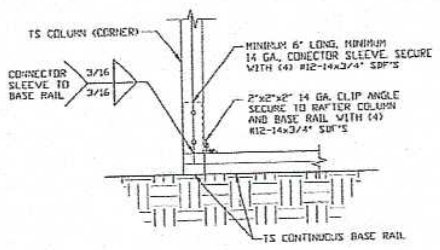
3B POST/BASE RAIL CONNECTION DETAIL
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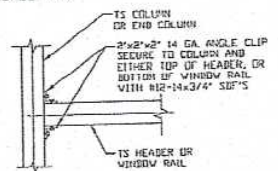
4 END COLUMN/RAFTER CONNECTION DETAIL
SCALE: NTS



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



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



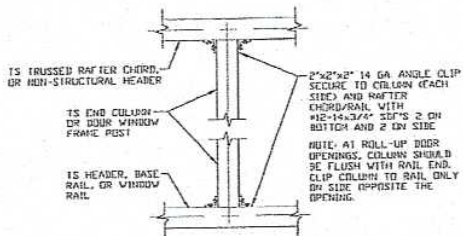
6 COLUMN OR WINDOW RAIL TO POST CONNECTION DETAIL
SCALE: NTS

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PROJECT MGR: WSM	Date: 10-22-2019	SCALE: NTS	JOB NO: 18184S
CLIENT: JR BUILDINGS	SHT. 9	DWG. NO: SK-3	REV: 0

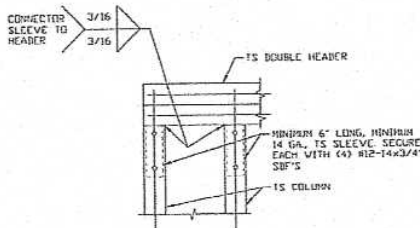
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CONNECTION DETAILS



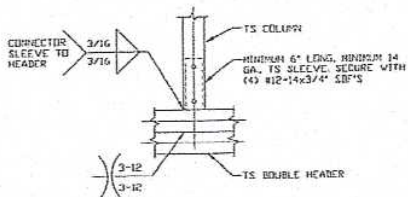
7 COLUMN TO HEADER, BASE RAIL, OR WINDOW RAIL CONNECTION DETAIL

SCALE: NTS



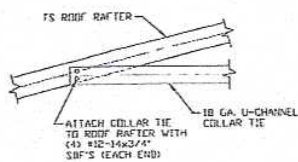
8 DOUBLE HEADER/COLUMN CONNECTION DETAIL

SCALE: NTS



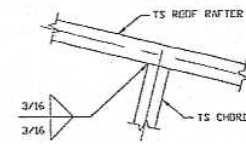
9 COLUMN/DOUBLE HEADER CONNECTION DETAIL

SCALE: NTS



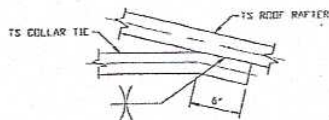
10 COLLAR TIE CONNECTION DETAIL

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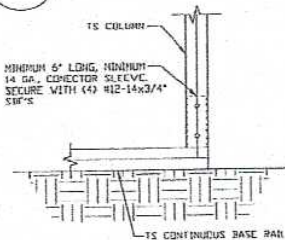
11 RAFTER TO CHORD CONNECTION DETAIL

SCALE: NTS



12 COLLAR TIE CONNECTION DETAIL

SCALE: NTS



13 COLUMN/BASE RAIL CONNECTION DETAIL

SCALE: NTS

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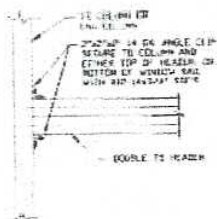
SHT. 10

DWG. NO: SK-3

REV: 0

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CONNECTION DETAILS



**DOUBLE HEADER TO COLUMN
CONNECTION DETAIL**

14

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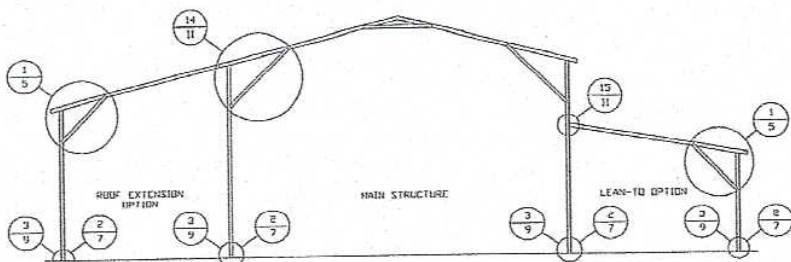
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JOB NO. 18184S/
1824MS

REV. 1

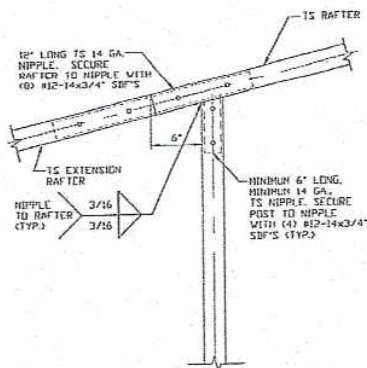
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BOX EAVE RAFTER LEAN-TO OPTIONS



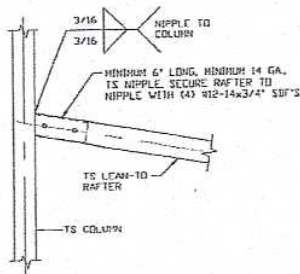
TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)

SCALE: NTS
 MAXIMUM WIDTH OF ROOF EXTENSION AND LEAN-TO OPTION IS 12'-0".



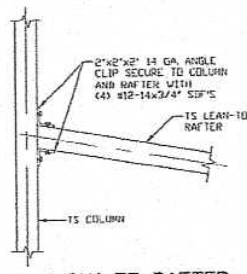
14 ROOF EXTENSION RAFTER/CORNER POST DETAIL FOR WIDTHS $\leq 12'-0"$

SCALE: NTS



15A LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS $\leq 12'-0"$

SCALE: NTS



15B LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS $\leq 12'-0"$

SCALE: NTS

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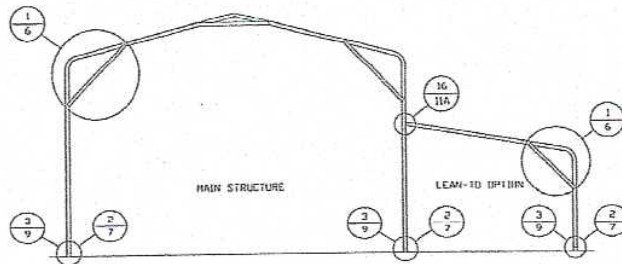
SHT. 11

DWG. NO: SK-3

REV: 0

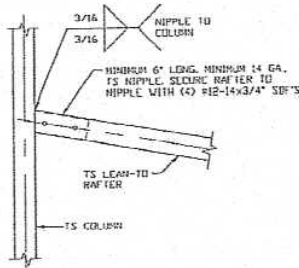
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BOW EAVE RAFTER LEAN-TO OPTIONS



TYPICAL BOW EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION

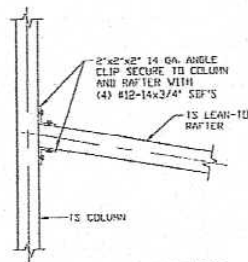
SCALE: NTS
 MAXIMUM WIDTH OF LEAN-TO OPTION IS 12'-0".



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

16A

SCALE: NTS



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

16B

SCALE: NTS

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JOB NO: 18184S

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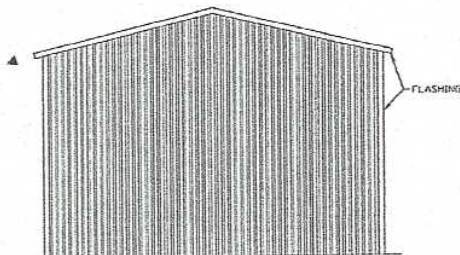
SHT. 11A

DWG. NO: SK-3

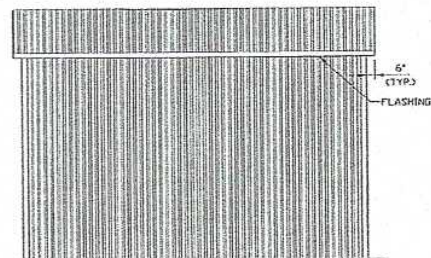
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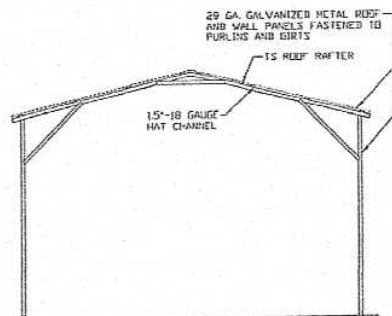
BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



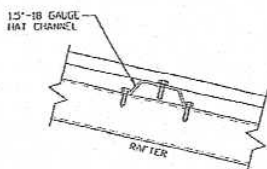
**TYPICAL END ELEVATION
VERTICAL ROOF/SIDING**
SCALE: NTS



**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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SCALE: NTS

JOB NO: 18184S

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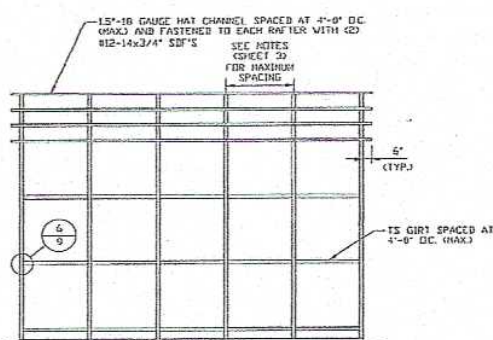
SHT. 12

DWG. NO: SK-3

REV: 0

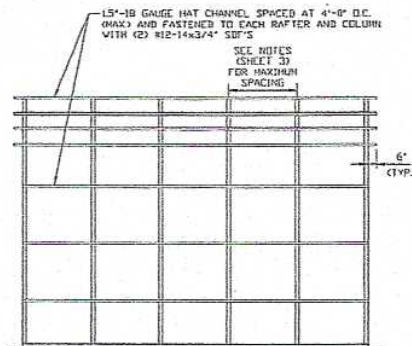
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BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



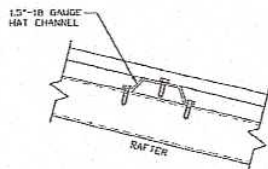
TYPICAL FRAMING SECTION
VERTICAL ROOF/SIDING OPTION
WITH TS GIRTS

SCALE: NTS



TYPICAL FRAMING SECTION
VERTICAL ROOF/SIDING OPTION
WITH HAT CHANNEL GIRTS

SCALE: NTS



PANEL ATTACHMENT

(ALTERNATE FOR VERTICAL ROOF PANELS)

SCALE: NTS

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	CLIENT: JR BUILDINGS	SHT. 12A	DWG. NO: SK-3	REV: 0