



Steven Weaver
827 Live Oak Rd.
Coats, NC 27521

STRUCTURAL DESIGN

ENCLOSED BUILDING

MAXIMUM 70'-0" WIDE X 20'-0" EAVE HEIGHT-
BOX EAVE FRAME

22 October 2018

Revision 2

M&A Project No. 18076S/18168S/18254S

Prepared for:

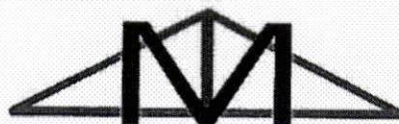
Carport Central, Inc.
737 South Main Street
Mount Airy, NC 27030

Prepared by:

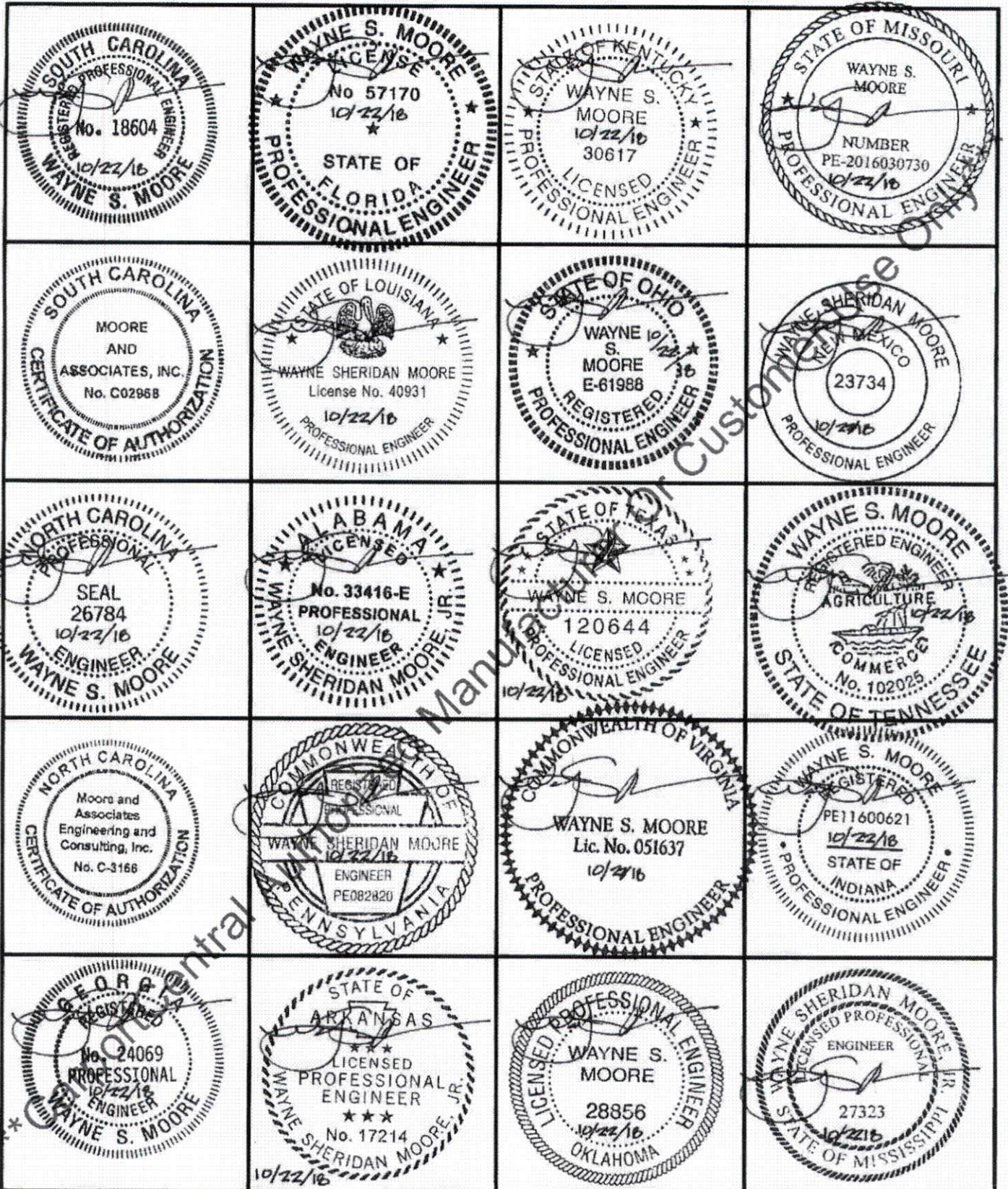
Moore and Associates Engineering and Consulting, Inc.

1009 East Avenue
North Augusta, SC 29841

401 S. Main Street, Suite 200
Mount Airy, NC 27030



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ENGINEERING AND CONSULTING



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Steven Weaver
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Coats, NC 27521

CHECKED BY: PDH

PROJECT MGR: WSM

DATE: 10-22-18

SCALE: NTS

JOB NO: 18076S/
18169S/18254S

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CLIENT: CARPORT CENTRAL

SHT. 1

DWG. NO: SK-3

REV: 2

	<p>Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 49744, Expiration Date <u>6/5/19</u></p>		

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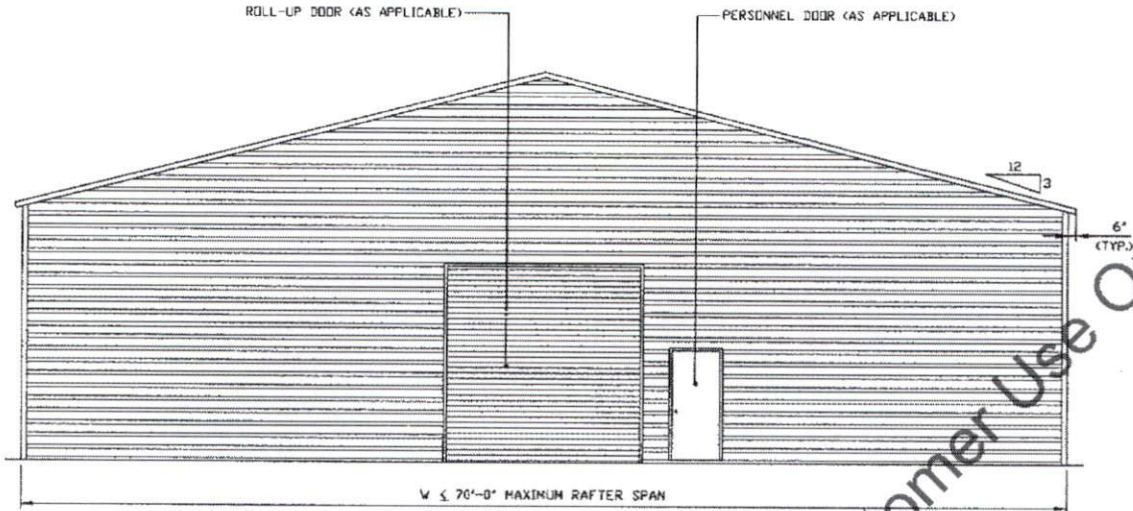
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INSTALLATION NOTES AND SPECIFICATIONS

1. DESIGN IS FOR MAXIMUM 70'-0" WIDE x 20'-0" EAVE HEIGHT ENCLOSED STRUCTURES.
2. DESIGN WAS DONE IN ACCORDANCE WITH THE 2018 NORTH CAROLINA BUILDING CODE, 2006 INTERNATIONAL BUILDING CODE, 2009 IBC, 2012 IBC AND 2015 IBC.
3. DESIGN LOADS ARE AS FOLLOWS:
 - A) DEAD LOAD = 11.5 PSF
 - B) LIVE LOAD = 20 PSF
 - C) GROUND SNOW LOAD = 45 PSF
4. 3-SECOND ULTIMATE WIND SPEED (V_{ULT}) 115 TO 155 MPH (NOMINAL WIND SPEED 89 TO 120 MPH).
5. MAXIMUM RAFTER/POST AND END POST SPACING = 4'-0" (UNLESS NOTED OTHERWISE).
6. END WALL COLUMN/POSTS ARE EQUIVALENT TO SIDE WALL COLUMN/POSTS IN SIZE AND SPACING (UNLESS NOTED OTHERWISE).
7. RISK CATEGORY II (OCCUPIED).
8. WIND EXPOSURE CATEGORY B/C.
9. SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/4" x 2 1/4" - 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) = 24" O.C. (MAX.)
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 20 FEET OR LESS, AND ROOF SLOPES OF 14° (1:6) 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 RAFTER COLUMN ALONG SIDES.
13. WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE:
 - SOIL SITE CLASS = D
 - RISK CATEGORY I/II/III
 - R= 3.25 $I_e= 1.0$
 - $S_{DS}= 2.039$ $V= C_s W$
 - $S_{D1}= 1.258$

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TYPICAL END ELEVATION
SCALE: NTS

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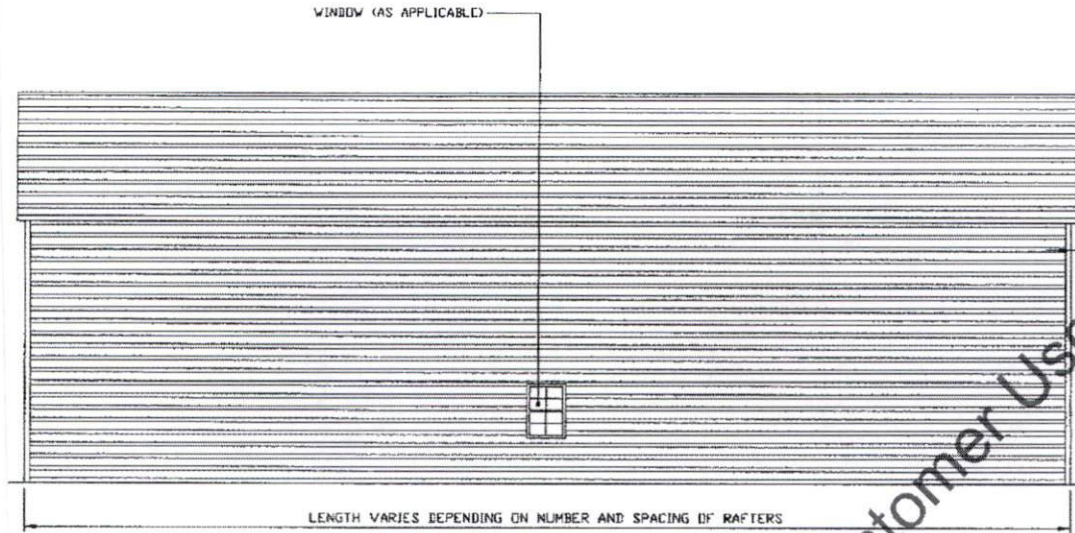
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SHT. 3A

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TYPICAL SIDE ELEVATION
SCALE: NTS

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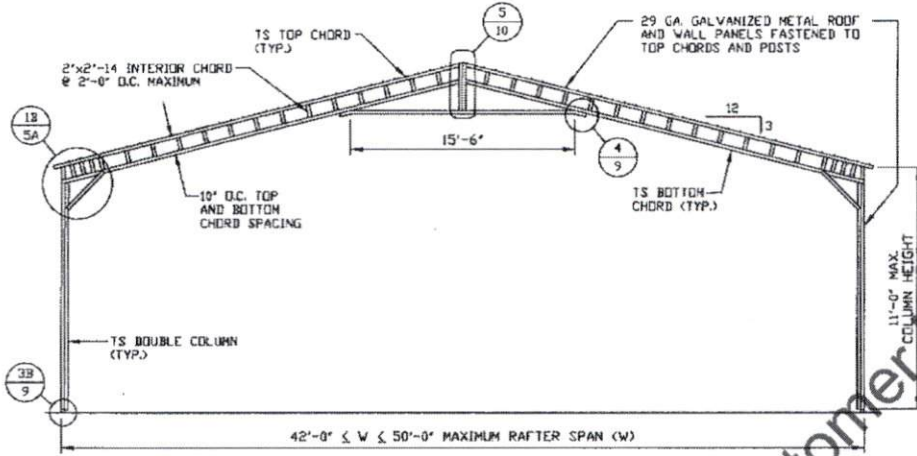
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SHT. 3B

DWG. NO: SK-3

REV: 2

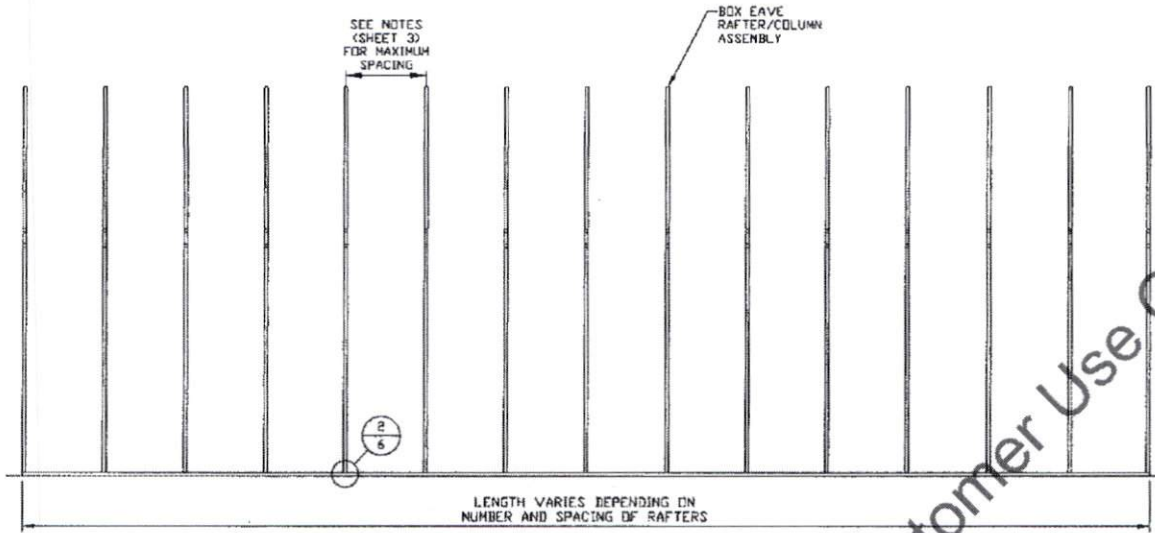
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TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS

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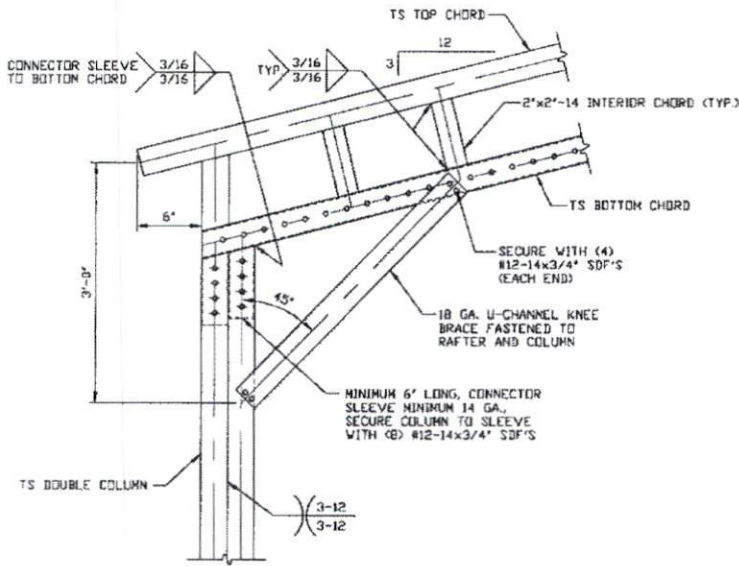


TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
 SCALE: NTS

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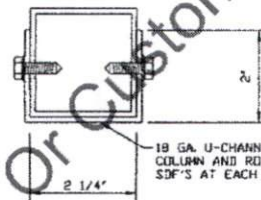
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COLUMN CONNECTION DETAILS

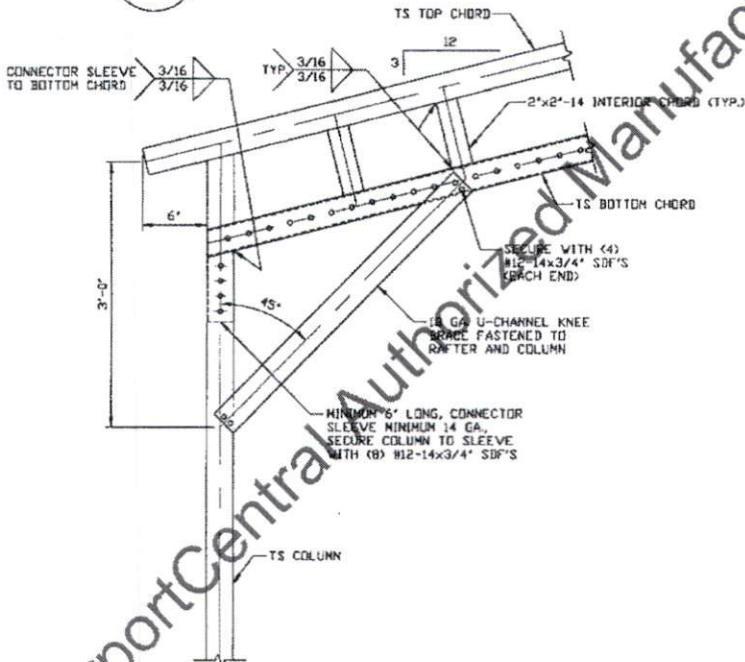


1B

BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 7'-0" < TO <= 11'-0"
SCALE: NTS



BRACE SECTION
SCALE: NTS



1C

BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS <= 7'-0"
SCALE: NTS

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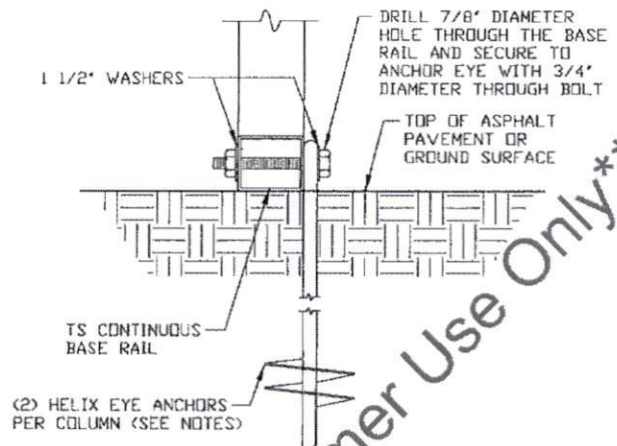
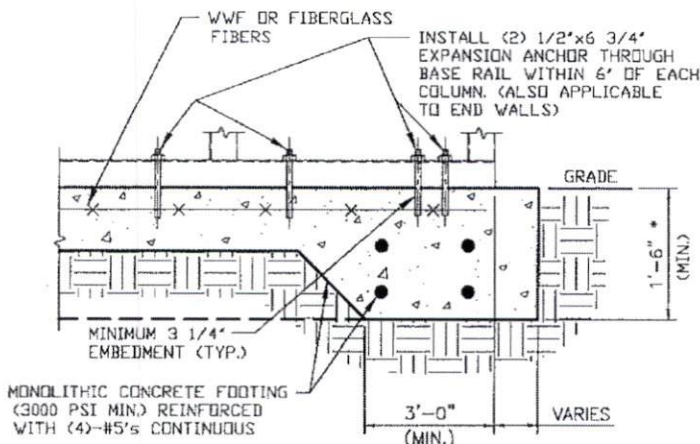
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BASE RAIL ANCHORAGE OPTIONS



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

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

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 A616 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:

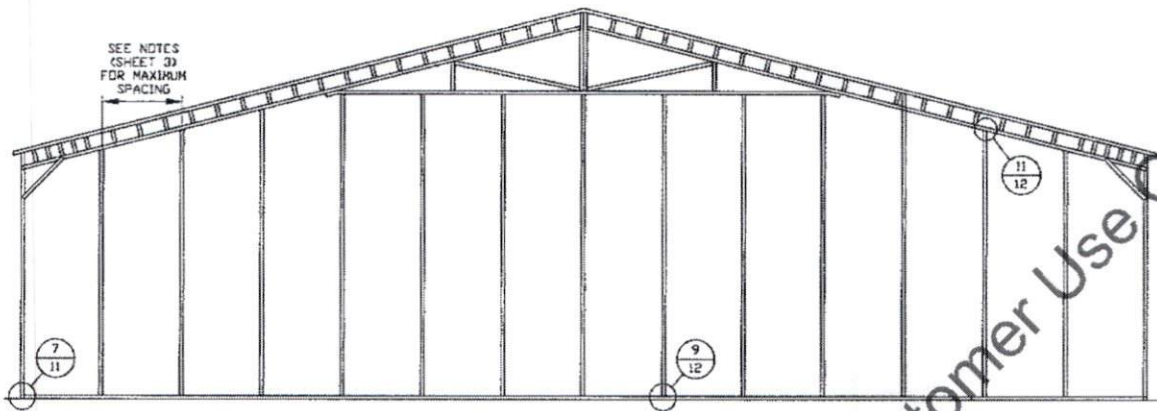
1. FOR VERY DENSE AND/OR CEMENTED SANDS, COARSE GRAVEL AND COBBLES, CALICHE, PRELOADED SILTS AND CLAYS, USE MINIMUM (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINGLE 6" HELIX WITH MINIMUM 50" EMBEDMENT.
2. FOR CORAL USE MINIMUM (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINGLE 6" HELIX WITH MINIMUM 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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BOX EAVE RAFTER END WALL



TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION
SCALE: NTS

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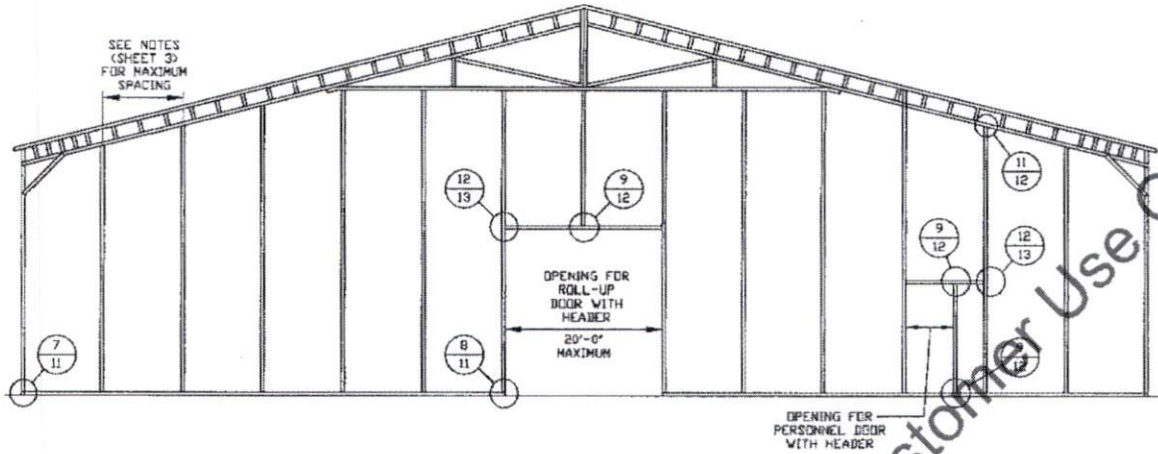
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BOX EAVE RAFTER END WALL OPENINGS

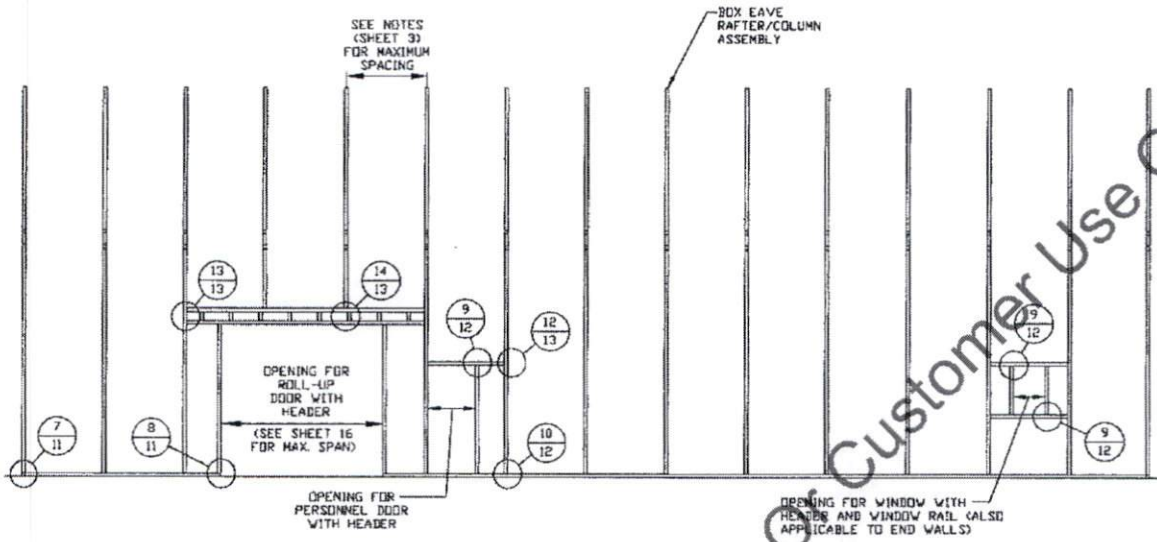


TYPICAL BOX EAVE RAFTER END WALL OPENING FRAMING SECTION
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BOX EAVE RAFTER SIDE WALL OPENINGS



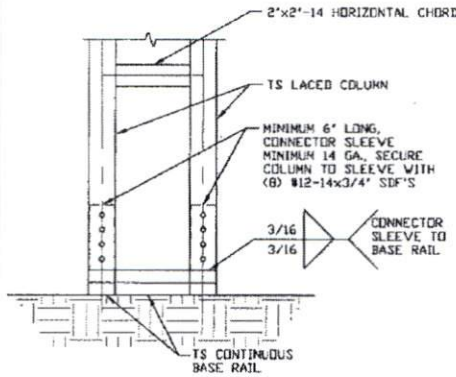
TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

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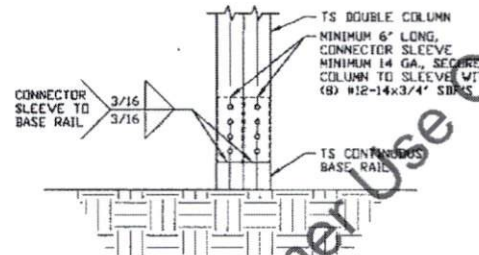
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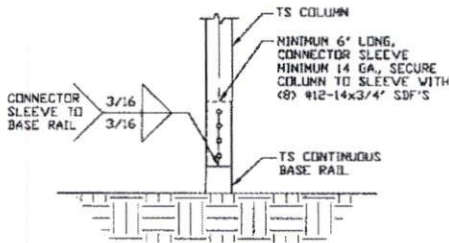
CONNECTION DETAILS



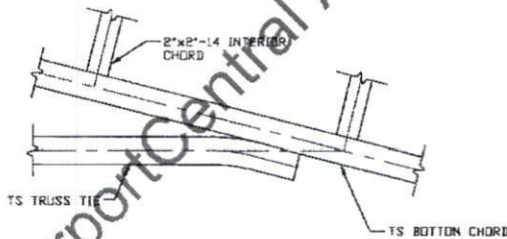
3A RAFTER COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



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



3C RAFTER COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



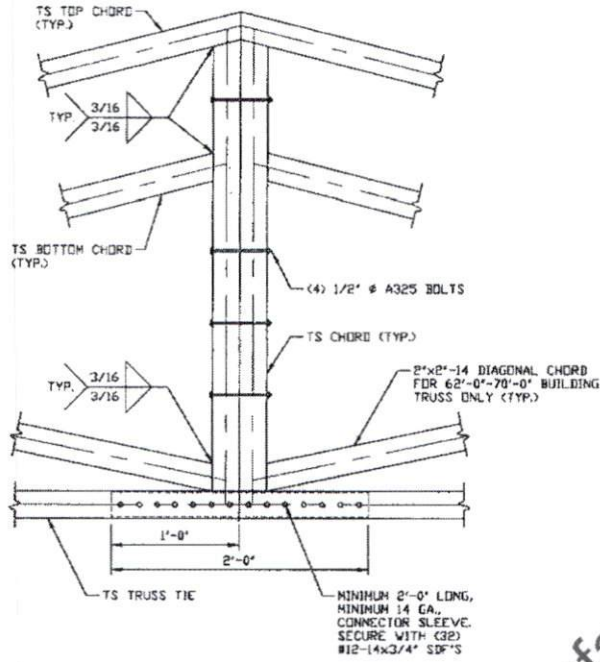
4 TRUSS TIE CONNECTION DETAIL
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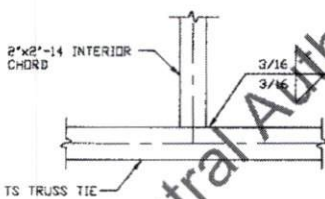
CONNECTION DETAILS



5

TRUSS SPLICE CONNECTION DETAIL

SCALE: NTS



6

TRUSS TIE/INTERIOR CHORD CONNECTION DETAIL

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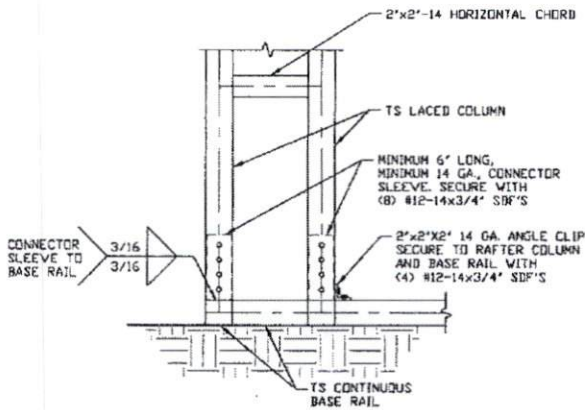
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SHT. 10

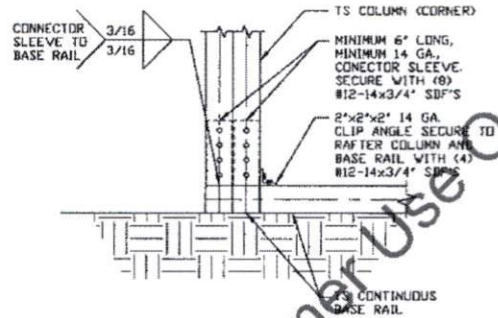
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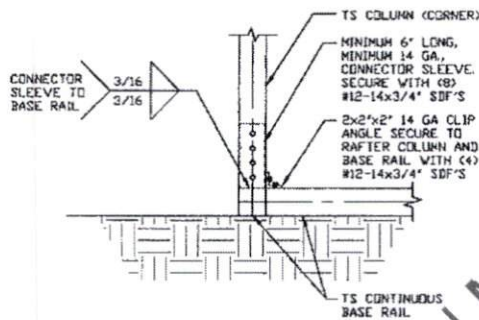
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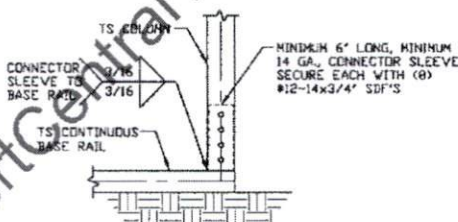
7 END COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



7A END COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



7B END COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



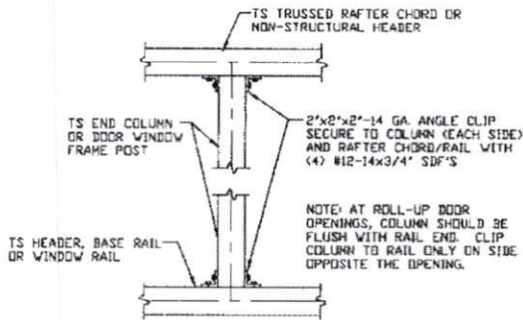
8 COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS

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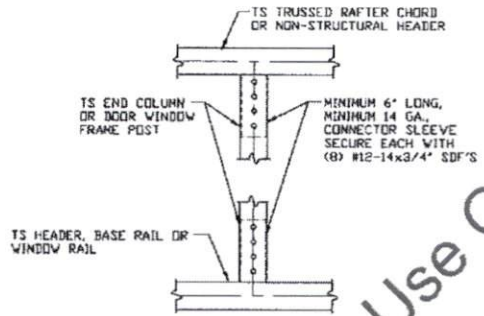
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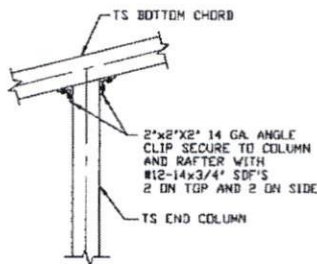
CONNECTION DETAILS



9 COLUMN TO WINDOW RAIL CONNECTION DETAIL
SCALE: NTS



10 COLUMN TO HEADER OR BASE RAIL CONNECTION DETAIL
SCALE: NTS

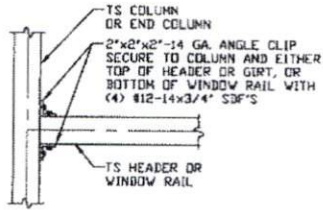


11 CHORD TO POST CONNECTION DETAIL
SCALE: NTS

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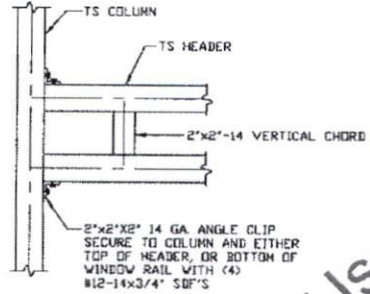
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	CLIENT: CARPORT CENTRAL	SHT. 12	DWG. NO: SK-3	REV: 2

CONNECTION DETAILS



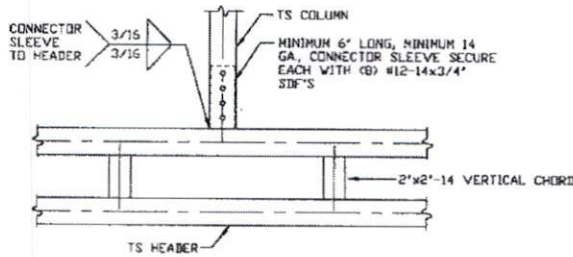
12 COLUMN OR WINDOW RAIL TO POST CONNECTION DETAIL

SCALE: NTS



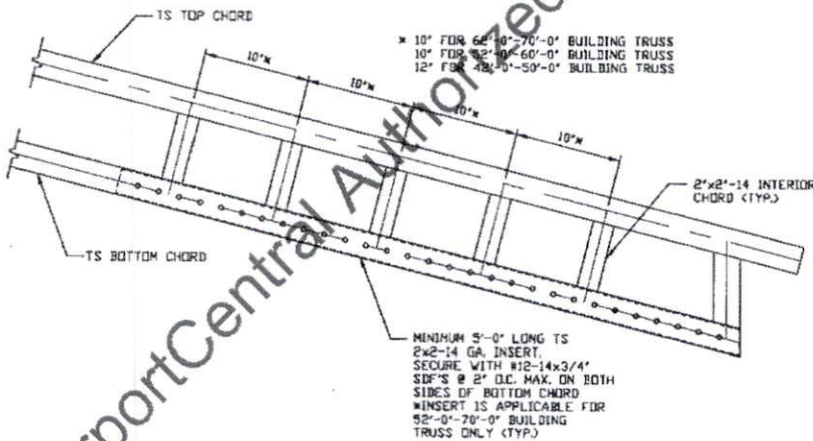
13 HEADER TO COLUMN CONNECTION DETAIL

SCALE: NTS



14 COLUMN TO HEADER CONNECTION DETAIL

SCALE: NTS



15 BOTTOM CHORD TO INSERT CONNECTION DETAIL

SCALE: NTS

U-CHANNEL BRACE AND COLUMN ARE NOT SHOWN FOR CLARITY.

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.

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Coats, NC 27521

CHECKED BY: PDH

PROJECT MGR: WSM

DATE: 10-22-18

SCALE: NTS

18076S/
JOB NO. 18168S/18254S

CLIENT: CARPORT CENTRAL

SHT. 13

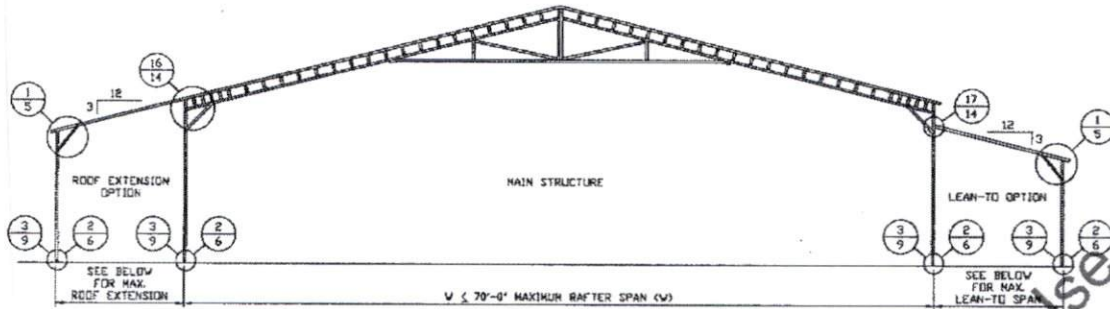
DWG. NO. SK-3

REV. 2

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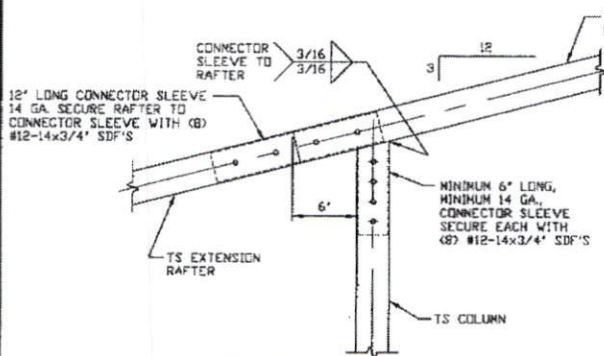
BOX EAVE RAFTER LEAN-TO OPTIONS

NOTE: 62'-0"-70'-0" BUILDING TRUSS SHOWN.
ACTUAL TRUSS VARIES WITH MAIN STRUCTURE WIDTH.



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

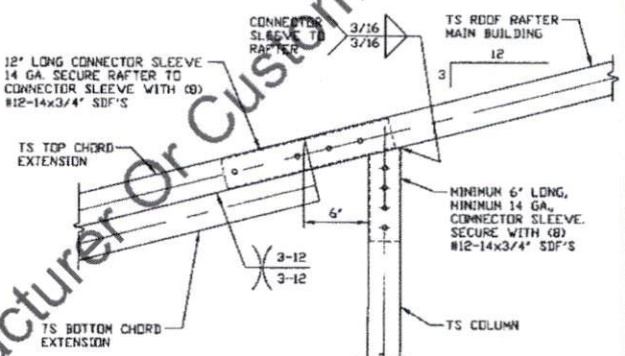
SCALE: NTS



16A

**SIDE EXTENSION RAFTER/COLUMN
DETAIL FOR SPANS ≤ 9'-0"**

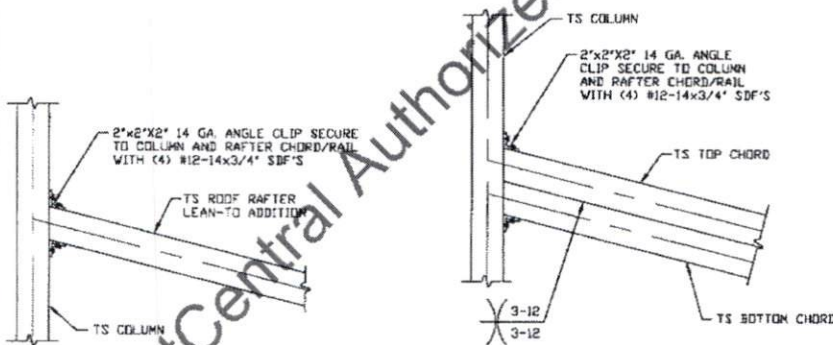
SCALE: NTS



16B

**SIDE EXTENSION RAFTER/COLUMN
DETAIL FOR SPANS 9'-0" < TO ≤ 12'-0"**

SCALE: NTS



17A

**LEAN-TO RAFTER TO
RAFTER COLUMN
CONNECTION DETAIL
FOR SPANS ≤ 9'-0"**

SCALE: NTS

17B

**LEAN-TO RAFTER TO
RAFTER COLUMN
CONNECTION DETAIL FOR
SPANS 9'-0" < TO ≤ 12'-0"**

SCALE: NTS

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DATE: 10-22-18

SHT. 14

SCALE: NTS

DWG. NO: SK-3

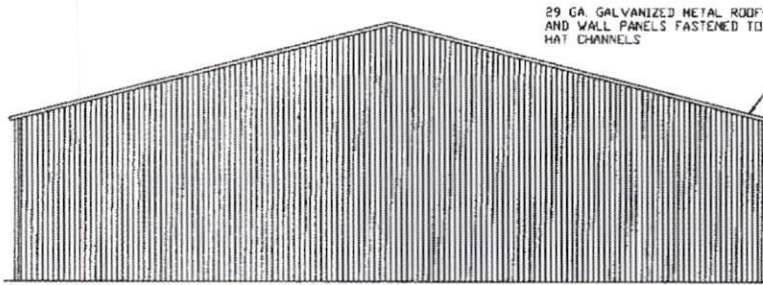
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JOB NO: 18168S/18254S

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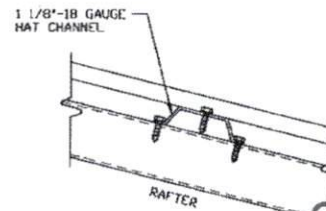
BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION

NOTE: 62'-0"-70'-0" BUILDING TRUSS SHOWN.
ACTUAL TRUSS VARIES WITH MAIN STRUCTURE WIDTH.



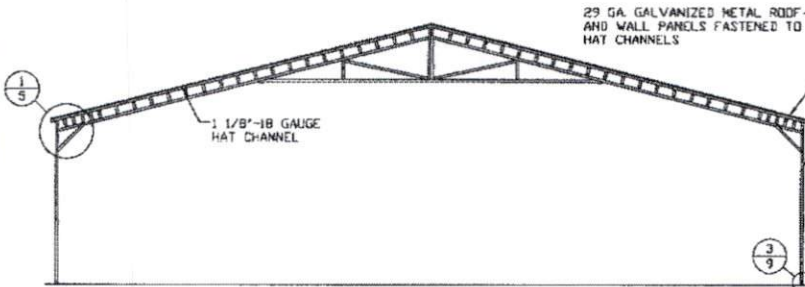
TYPICAL END ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS



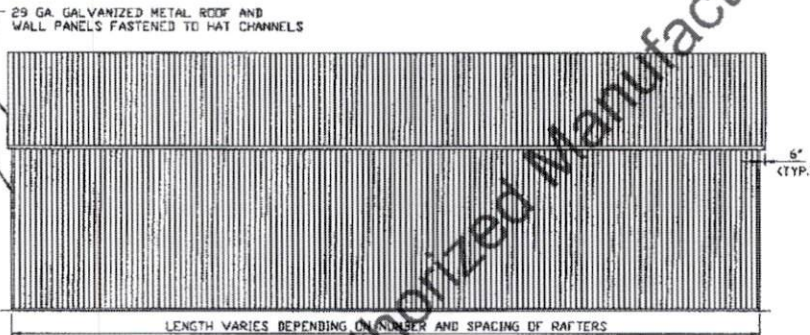
PANEL ATTACHMENT

(ALTERNATE FOR VERTICAL ROOF PANELS)
SCALE: NTS



TYPICAL SECTION VERTICAL ROOF/SIDING OPTION

SCALE: NTS

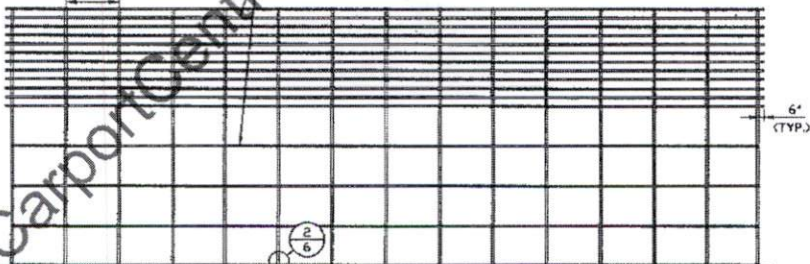


TYPICAL SIDE ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS

SEE NOTES (SHEET 3) FOR MAXIMUM SPACING

1 1/8" GAUGE HAT CHANNEL SPACED AT 8'-6" (MAX.) O.C. AND FASTENED TO EACH RAFTER WITH (2) #12-14x3/4" SDF'S



TYPICAL FRAMING SECTION VERTICAL ROOF/SIDING OPTION

SCALE: NTS

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SCALE: NTS

18076S/
JOB NO: 18168S/18254S

CLIENT: CARPORT CENTRAL

SHT. 15

DWG. NO: SK-3

REV: 2

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