Approved based on notes located on floor plan/last page.

Carport CENTRAL

Louis Popielarcheck
9093 Highway 210 South
Bunn Level NC 28323

STRUCTURAL DESIGN

ENCLOSED BUILDING

MAXIMUM 30'- 0" WIDE X 20'- 0" EAVE HEIGHT- BOX EAVE FRAME AND BOW FRAME

12 April 2019
Revision 0
M&A Project No. 18378S

Prepared for:

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

Prepared by:

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1009 East Avenue
North Augusta, SC 29841

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

MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 18604 4/12/19 WAYNE S. MOORE	WAYNE S. MOORE LICENSE No 57170 4/12/19 STATE OF FLORIDA PROFESSIONAL ENGINEER	NEW JERSEY MOORE AND ASSOCIATES, INC. No. 4030809243 CERTIFICATE OF AUTHORIZATION	STATE OF NEW JERSEY 4/12/19
SOUTH CAROLINA MOORE AND ASSOCIATES, INC No. C02968 CERTIFICATE OF AUTHORIZATION	ALABAMA LICENSED No. 33416-E PROFESSIONAL 4/12/19 ENGINEER WAYNE SHERIDAN MOORE, JR.	COMMONWEALTH OF VIRGINIA WAYNE S. MOORE Lic. No. 051637 4/12/19 PROFESSIONAL ENGINEER	WAYNE S. MOORE REGISTERED PE11600621 4/12/19 STATE OF INDIANA PROFESSIONAL ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 26784 4/12/19 ENGINEER WAYNE S. MOORE	STATE OF KENTUCKY WAYNE S. MOORE 4/12/19 30617 LICENSED PROFESSIONAL ENGINEER	COLORADO LICENSED WAYNE SHERIDAN MOORE 0051429 4/12/19 PROFESSIONAL ENGINEER	WAYNE SHERIDAN MOORE LICENSED 25235 4/12/19 KANSAS PROFESSIONAL ENGINEER
NORTH CAROLINA Moore and Associates Engineering and Consulting, Inc. No. C-3166 CERTIFICATE OF AUTHORIZATION	STATE OF LOUISIANA WAYNE SHERIDAN MOORE License No. 40931 4/12/19 PROFESSIONAL ENGINEER	I HAVE RESEARCHED THIS CHAPTER AND THE LOUISIANA STATE UNIFORM CONSTRUCTION CODE AND TO THE BEST OF MY KNOWLEDGE AND BELIEF, THESE DRAWINGS ARE IN COMPLIANCE THEREWITH. I TAKE FULL RESPONSIBILITY FOR THE CONTENTS OF THESE PLANS.	
GEORGIA REGISTERED No. 24069 PROFESSIONAL 4/12/19 ENGINEER WAYNE S. MOORE	WAYNE SHERIDAN MOORE, JR. LICENSED PROFESSIONAL ENGINEER 4/12/19 27323 STATE OF MISSISSIPPI	STATE OF MISSOURI WAYNE S. MOORE 4/12/19 NUMBER PE-2016030730 PROFESSIONAL ENGINEER	STATE OF TEXAS WAYNE S. MOORE 120644 LICENSED PROFESSIONAL ENGINEER 4/12/19

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WAYNE SHERIDAN MOORE NEW MEXICO 23734 PROFESSIONAL ENGINEER 4/12/19	WAYNE SHERIDAN MOORE, JR. REGISTERED 21776 4/12/19 STATE OF WEST VIRGINIA PROFESSIONAL ENGINEER	STATE OF MICHIGAN WAYNE SHERIDAN MOORE, JR. ENGINEER No. 6201065442 4/12/19 LICENSED PROFESSIONAL ENGINEER	STATE OF CONNECTICUT WAYNE S. MOORE No. 32581 LICENSED PROFESSIONAL ENGINEER 4/12/19
LICENSED PROFESSIONAL ENGINEER WAYNE S. MOORE 4/12/19 28856 OKLAHOMA	WAYNE S. MOORE LICENSE No. 21412 4/12/19 DELAWARE PROFESSIONAL ENGINEER	COMMONWEALTH OF MASSACHUSETTS WAYNE S. MOORE STRUCTURAL No. 52896 4/12/19 REGISTERED PROFESSIONAL ENGINEER	
COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL WAYNE SHERIDAN MOORE 4/12/19 ENGINEER PE082820	STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No. 17214 WAYNE SHERIDAN MOORE, JR. 4/12/19	WAYNE SHERIDAN MOORE RHODE ISLAND No. 12395 HOPE 4/12/19 REGISTERED PROFESSIONAL ENGINEER (STRUCTURAL)	
STATE OF OHIO WAYNE S. MOORE E-61988 4/12/19 REGISTERED PROFESSIONAL ENGINEER	STATE OF NEW YORK WAYNE SHERIDAN MOORE 4/12/19 096986 LICENSED PROFESSIONAL ENGINEER	WISCONSIN WAYNE S. MOORE E-45930-6 NORTH AUGUSTA, SOUTH CAROLINA 4/12/19 PROFESSIONAL ENGINEER	
STATE OF MARYLAND WAYNE S. MOORE No. 49744 PROFESSIONAL ENGINEER 4/12/19	**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 8/8/20	PROFESSIONAL STRUCTURAL ENGINEER WAYNE SHERIDAN MOORE, JR. E-16765 STATE OF NEBRASKA 4/12/19	

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

INSTALLATION NOTES AND SPECIFICATIONS

1. DESIGN IS FOR MAXIMUM 30'-0" WIDE x 20'-0" EAVE HEIGHT ENCLOSED STRUCTURES.
2. DESIGN WAS DONE IN ACCORDANCE WITH THE 2018 NORTH CAROLINA BUILDING CODE, 2017 FLORIDA BUILDING CODE (FBC) 6TH EDITION, 2018 INTERNATIONAL BUIDLING CODE (IBC), 2006 IBC, 2009 IBC, 2012 IBC, 2015 IBC, AND 2018 IBC.
3. DESIGN LOADS ARE AS FOLLOWS:
   A) DEAD LOAD = 1.5 PSF
   B) LIVE LOAD = 12 PSF
   C) GROUND SNOW LOAD = 33 PSF AT 5'-0" O.C. SPACING.
   = 42 PSF AT 4'-0" O.C. SPACING.
   30 PSF (WITH U-CHANNEL PEAK BRACE) W ≤ 26'-0"
   (UNBALANCED SNOW LOADS DUE TO DRIFTING HAVE NOT BEEN EVALUATED.)
4. ULTIMATE WIND SPEED 105 TO 143 MPH (NOMINAL WIND SPEED 82 TO 110 MPH).
   MAXIMUM RAFTER/COLUMN AND END COLUMN SPACING = 5.0 FEET
5. ULTIMATE WIND SPEED 144 TO 155 MPH (NOMINAL WIND SPEED 111 TO 120 MPH).
   MAXIMUM RAFTER/COLUMN AND END COLUMN SPACING = 4.0 FEET
6. END WALL COLUMNS (POSTS) ARE SIMILAR TO SIDE WALL POSTS IN SIZE AND SPACING UNLESS NOTED OTHERWISE.
7. LOW HAZARD RISK CATEGORY I.
8. WIND EXPOSURE CATEGORY B.
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) = 8 INCHES.
11. FASTENERS CONSIST OF #12-14x3/4" (UNLESS OTHERWISE NOTED) 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.
12. ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6" OF EACH COLUMN.
13. STANDARD GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 REBAR W/ WELDED NUT x 36" LONG. SOIL NAILS MAY BE USED FOR MAXIMUM WIND V = 145 MPH AND IN SUITABLE SOIL CONDITIONS. OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USED FOR WIND V > 145 MPH AND/OR 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_{DS}= 2.039 g V= C_SW
    S_{D1}= 1.258 g
15. DOOR AND WINDOW PRESSURES APPLICABLE TO THE STATE OF FLORIDA.

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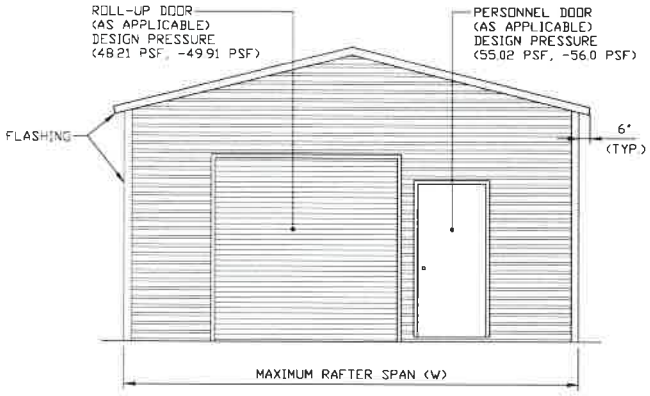
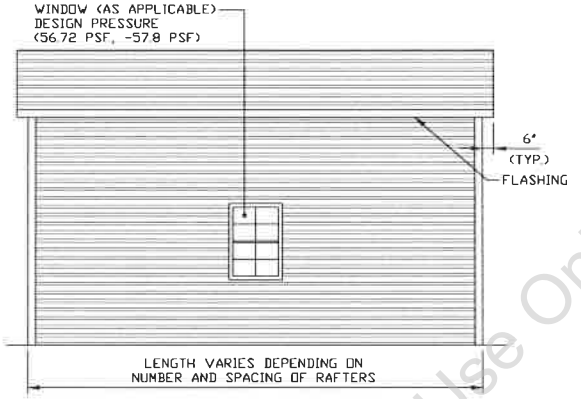
BOX EAVE FRAME RAFTER STRUCTURE



TYPICAL END ELEVATION-HORIZONTAL ROOF

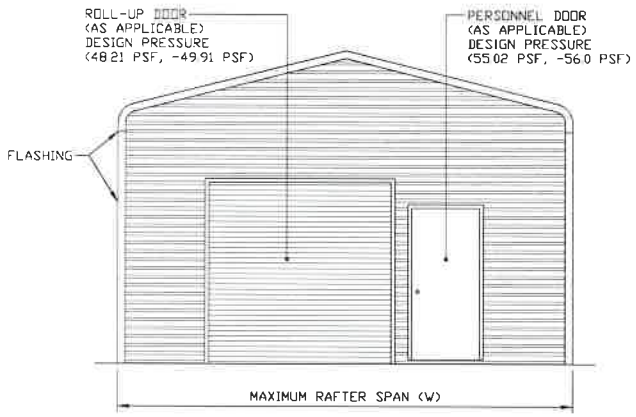
SCALE: NTS



TYPICAL SIDE ELEVATION-HORIZONTAL ROOF

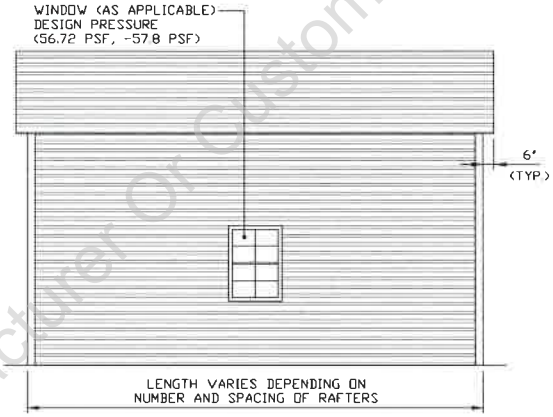
SCALE: NTS

BOW FRAME RAFTER STRUCTURE



TYPICAL END ELEVATION

SCALE: NTS



TYPICAL END ELEVATION

SCALE: NTS

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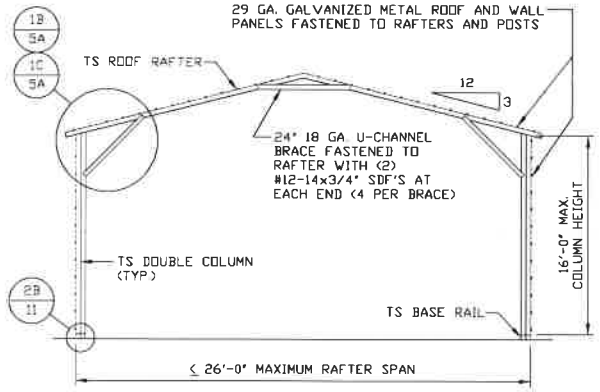
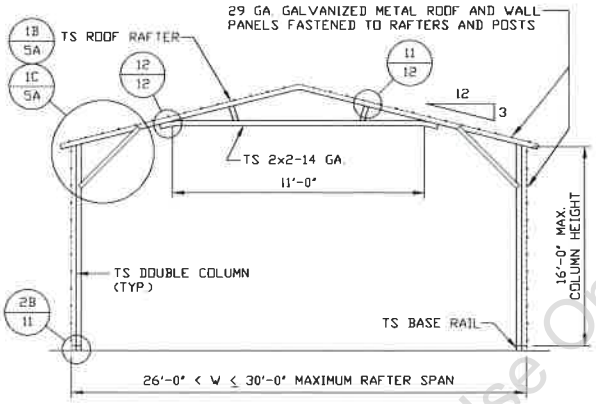


TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION

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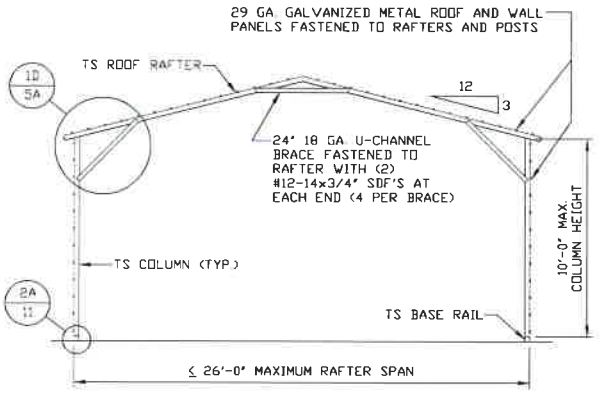

TYPICAL RAFTER/COLUMN END FRAME SECTION

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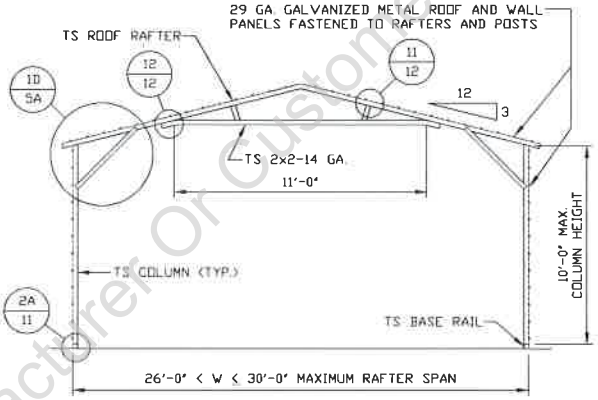

TYPICAL RAFTER/COLUMN END FRAME SECTION

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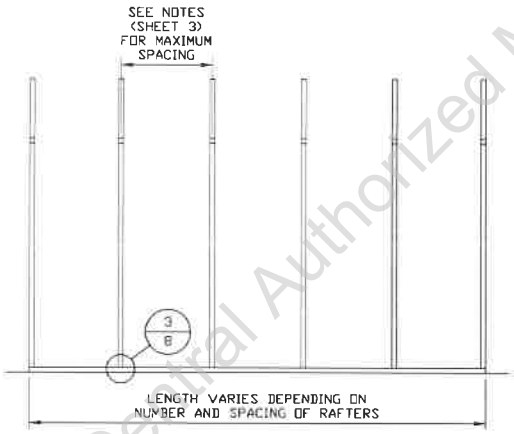

TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

SCALE: NTS

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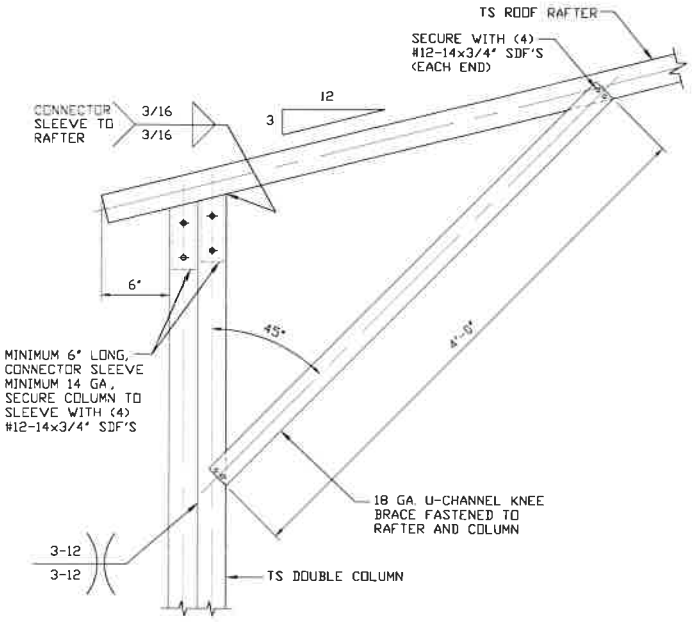
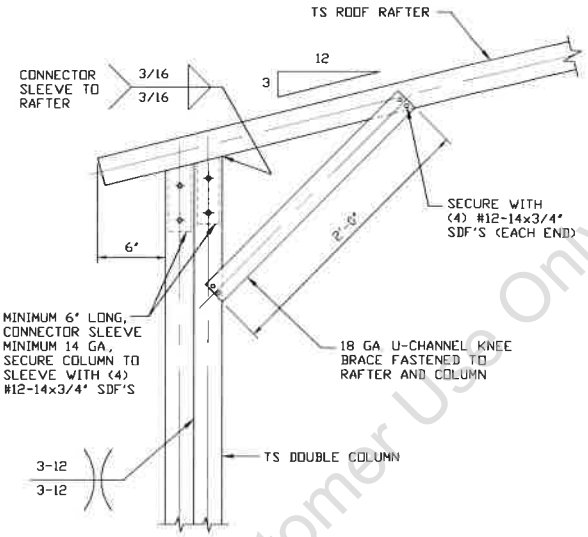


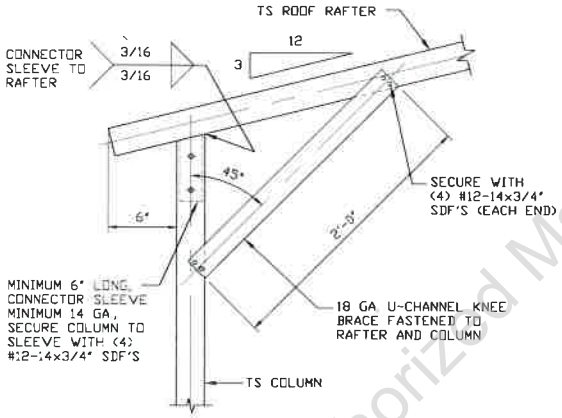
1B BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 12'-0" < TO ≤ 16'-0"

SCALE: NTS



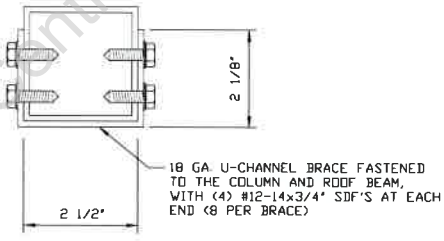
1C BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 10'-0" < TO ≤ 12'-0"

SCALE: NTS



1D BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS ≤ 10'-0"

SCALE: NTS



BRACE SECTION

SCALE: NTS

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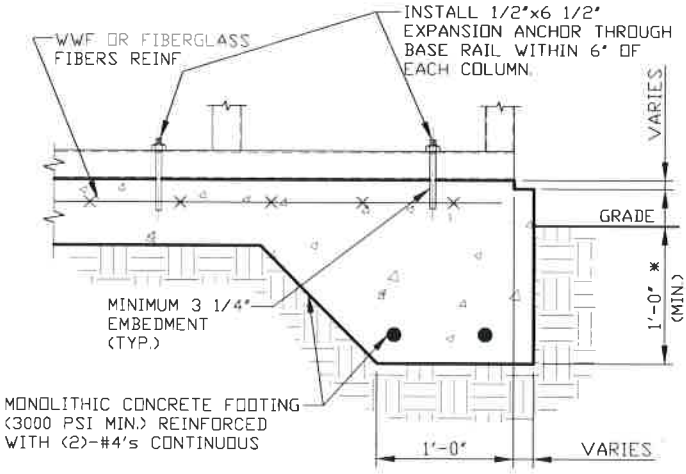
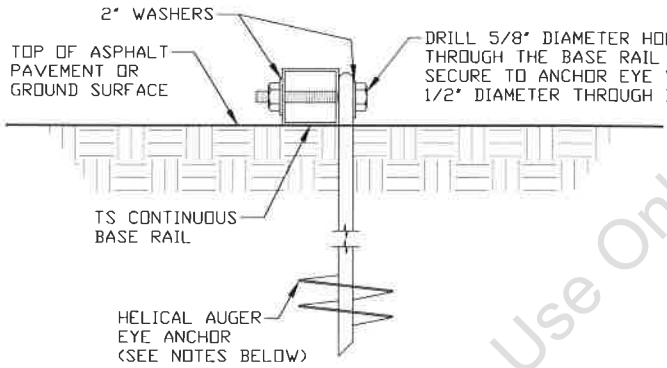
	CLIENT: CC	SHT. 5A	DWG. NO: SK-3	REV: 0

BASE RAIL ANCHORAGE OPTIONS



3A **CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE**
SCALE: NTS
MINIMUM ANCHOR EDGE DISTANCE IS 4".
* COORDINATE WITH LOCAL CODES/ORD.



3B **HELICAL AUGER 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 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

HELICAL AUGER 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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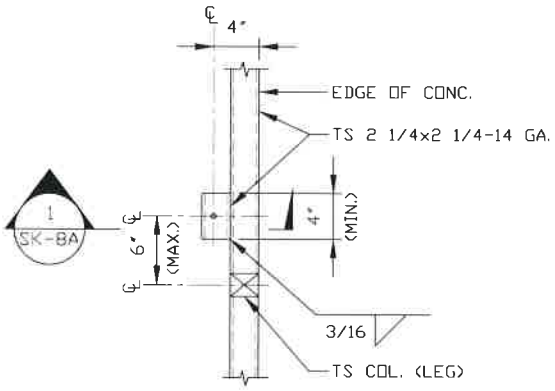
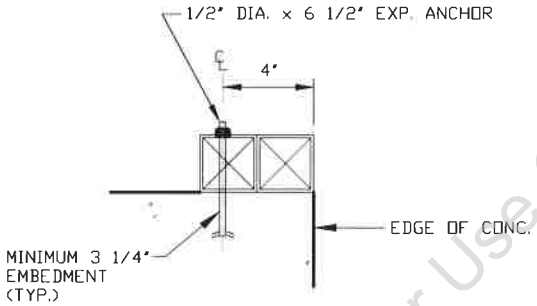
	CLIENT: CC	SHT. 8	DWG. NO: SK-3	REV: 0

BASE RAIL ANCHORAGE OPTIONS



TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE

SCALE: NTS



SECTION 1 SK-8A

SCALE: NTS

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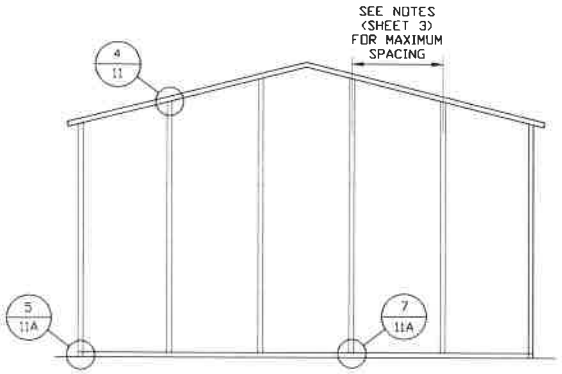
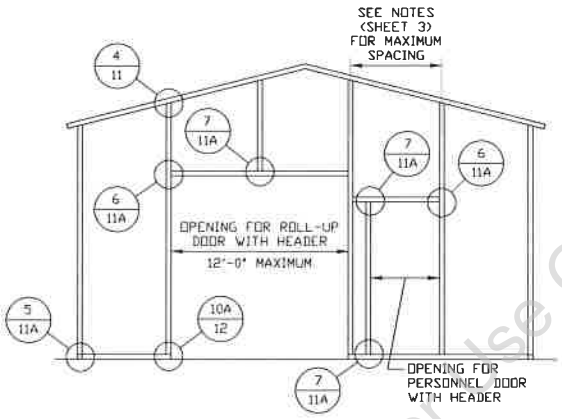
	CLIENT: CC	SHT. 8A	DWG. NO: SK-3	REV.: 0

BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



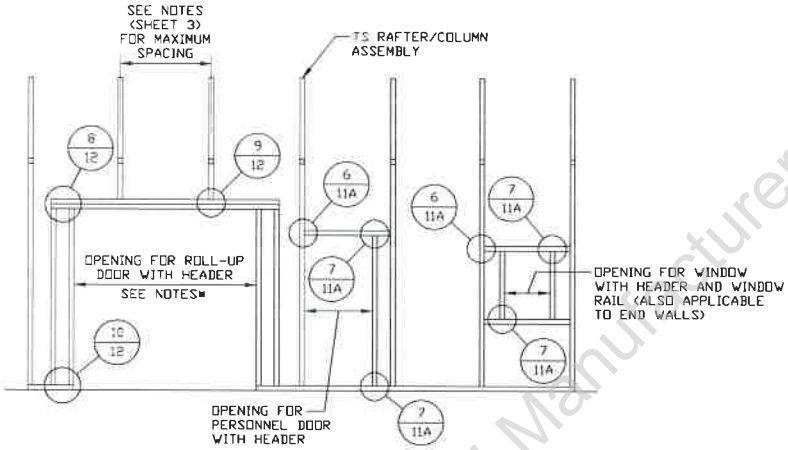
TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE: NTS

NOTES:

* 10'-0" MAX. FOR 5'-0" O.C. RAFTER/COLUMN SPACING.
* 9'-0" MAX. FOR 4'-0" O.C. RAFTER/COLUMN SPACING.

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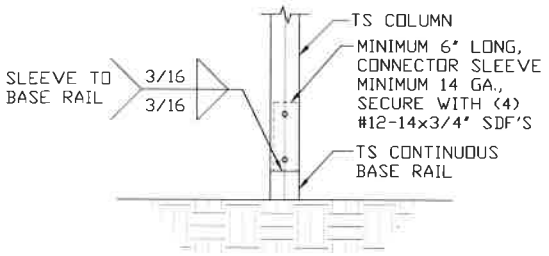
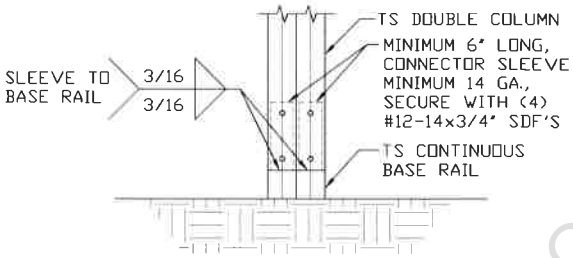
	CLIENT: CC	SHT. 9	DWG. NO: SK-3	REV: 0

CONNECTION DETAILS



2A RAFTER COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



2B RAFTER COLUMN/BASE RAIL CONNECTION DETAIL
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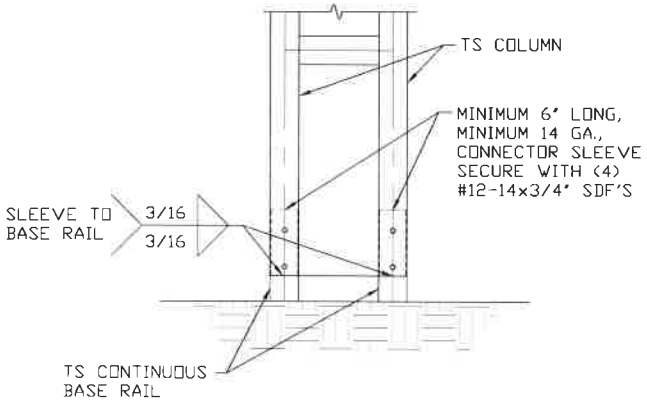

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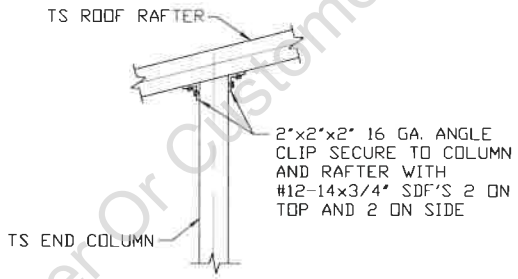

4 END COLUMN/RAFTER CONNECTION DETAIL
SCALE: NTS

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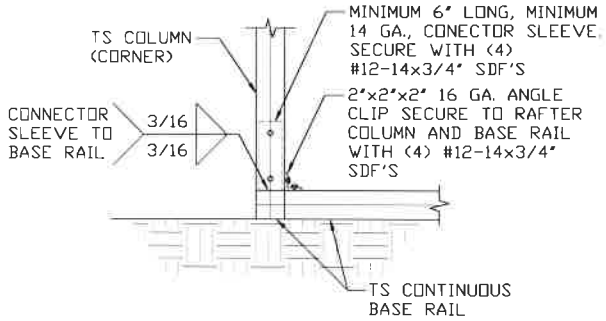
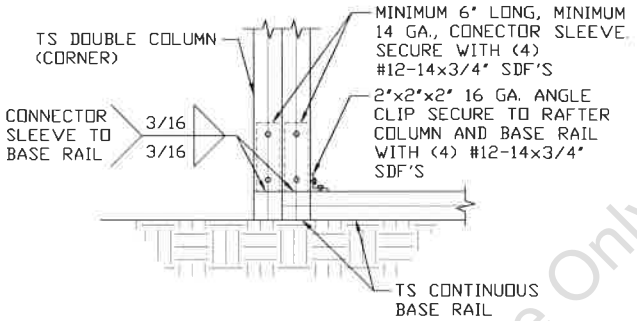
	CLIENT: CC	SHT. 11	DWG. NO: SK-3	REV.: 0

CONNECTION DETAILS



5 END COLUMN/BASE RAIL CONNECTION DETAIL

SCALE: NTS



5A END COLUMN/BASE RAIL CONNECTION DETAIL

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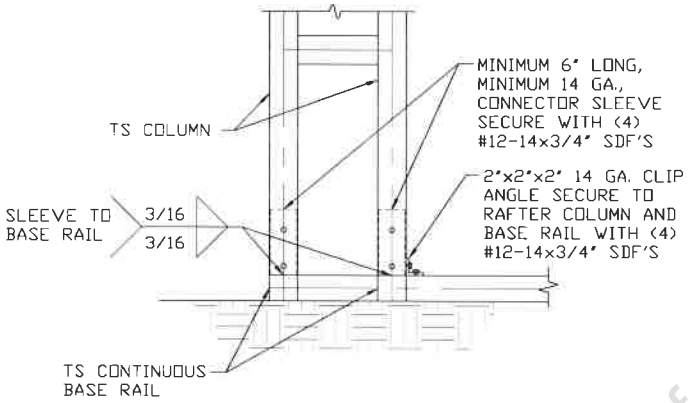

5B END COLUMN/BASE RAIL CONNECTION DETAIL

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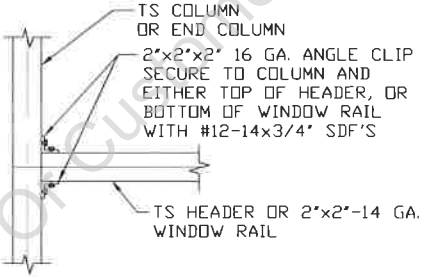
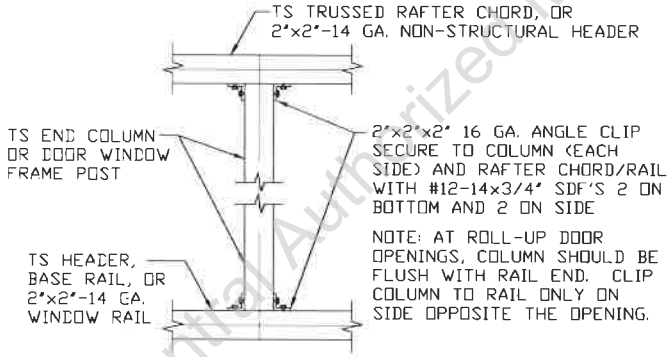


6 COLUMN OR WINDOW RAIL TO POST CONNECTION DETAIL

SCALE: NTS



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

SCALE: NTS

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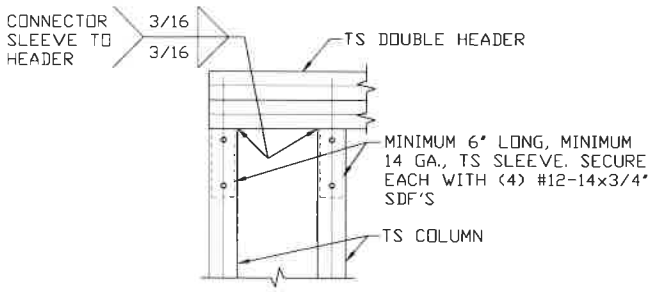
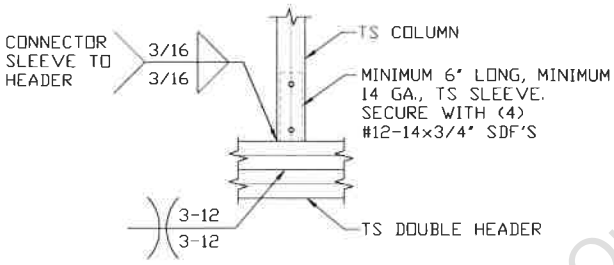
	CLIENT: CC	SHT. 11A	DWG. NO: SK-3	REV: 0

CONNECTION DETAILS



8 DOUBLE HEADER/COLUMN CONNECTION DETAIL
SCALE: NTS



9 COLUMN/DOUBLE HEADER CONNECTION DETAIL
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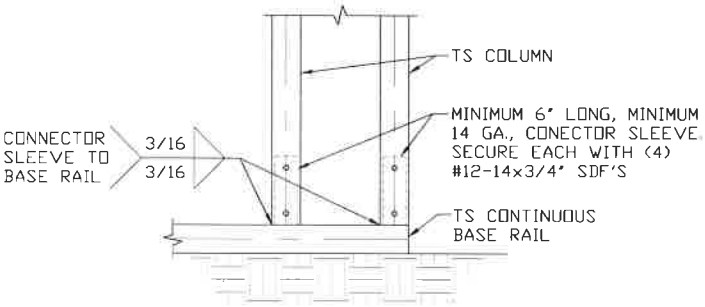

10 COLUMN/BASE RAIL CONNECTION DETAIL
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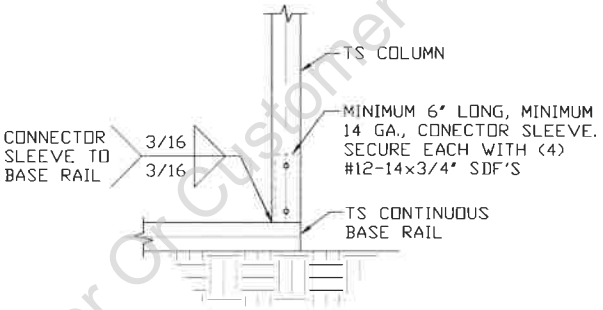
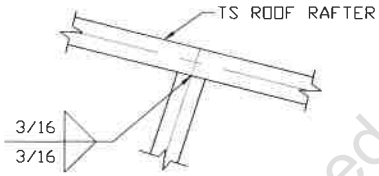
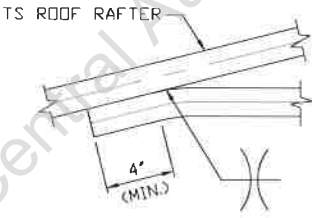


10A COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



11 RAFTER TO CHORD CONNECTION DETAIL
SCALE: NTS



12 COLLAR TIE CONNECTION DETAIL
SCALE: NTS

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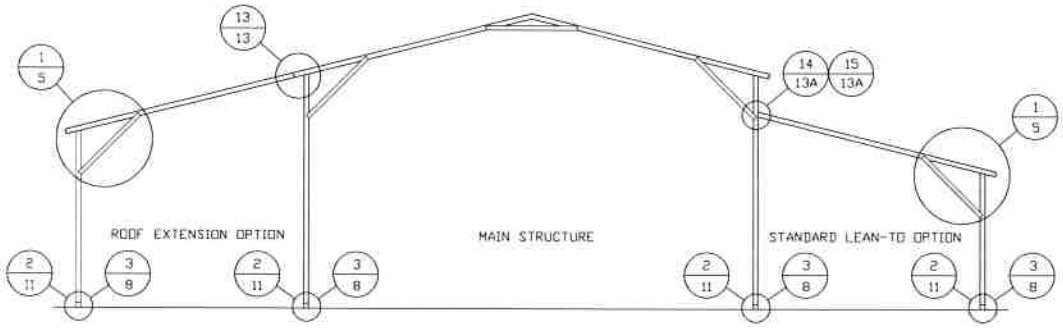
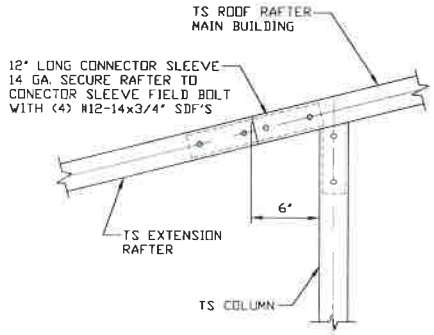
	CLIENT: CC	SHT. 12	DWG. NO: SK-3	REV: 0

BOX EAVE RAFTER LEAN-TO OPTIONS



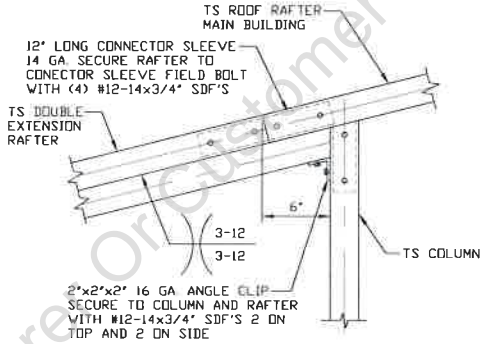
TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)

SCALE: NTS



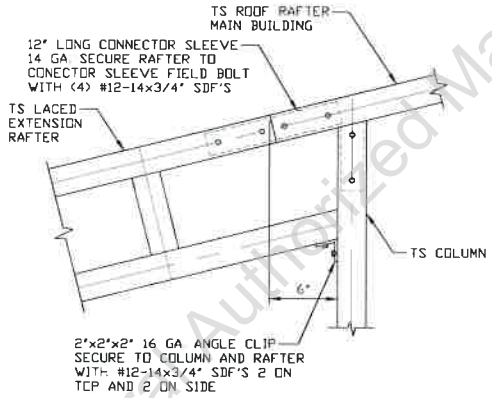
13 SIDE EXTENSION RAFTER/COLUMN DETAIL FOR SPAN ≤ 12'-0"

SCALE: NTS



13A SIDE EXTENSION RAFTER/COLUMN DETAIL FOR SPAN 12'-0" < L ≤ 16'-0"

SCALE: NTS



13B SIDE EXTENSION RAFTER/COLUMN DETAIL FOR SPAN 16'-0" < L ≤ 20'-0"

SCALE: NTS

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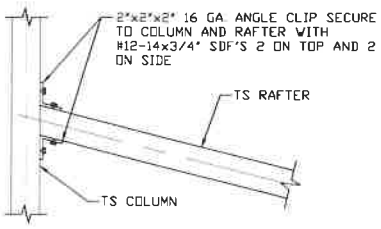
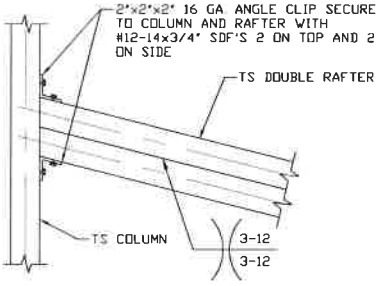
	CLIENT: CC	SHT. 13	DWG. NO: SK-3	REV: 0

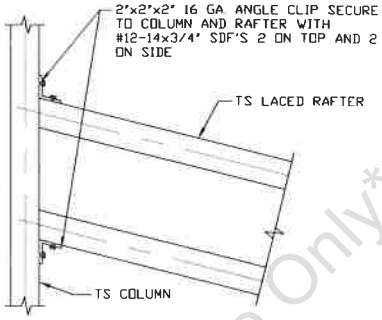
LEAN-TO OPTIONS



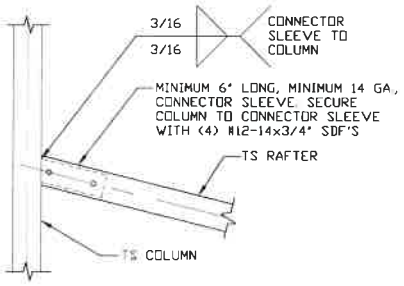
14 LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR SPAN ≤ 12'-0"
SCALE: NTS



14A LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR SPAN 12'-0" < L ≤ 16'-0"
SCALE: NTS



14B LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR SPAN 16'-0" < L ≤ 20'-0"
SCALE: NTS



15 LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR SPAN ≤ 12'-0"
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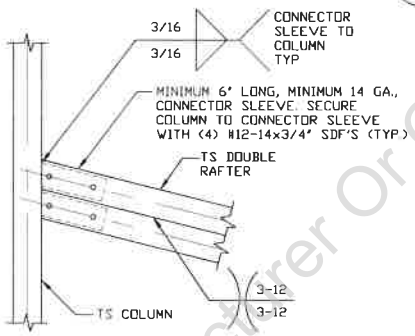

15A LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR SPAN 12'-0" < L ≤ 16'-0"
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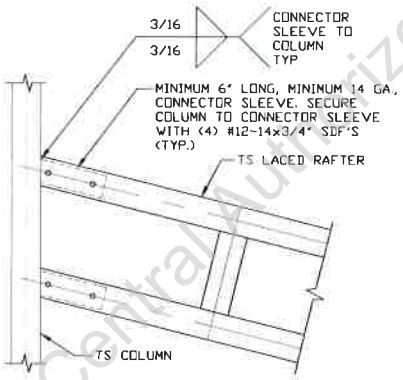

15B LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR SPAN 16'-0" < L ≤ 20'-0"
SCALE: NTS

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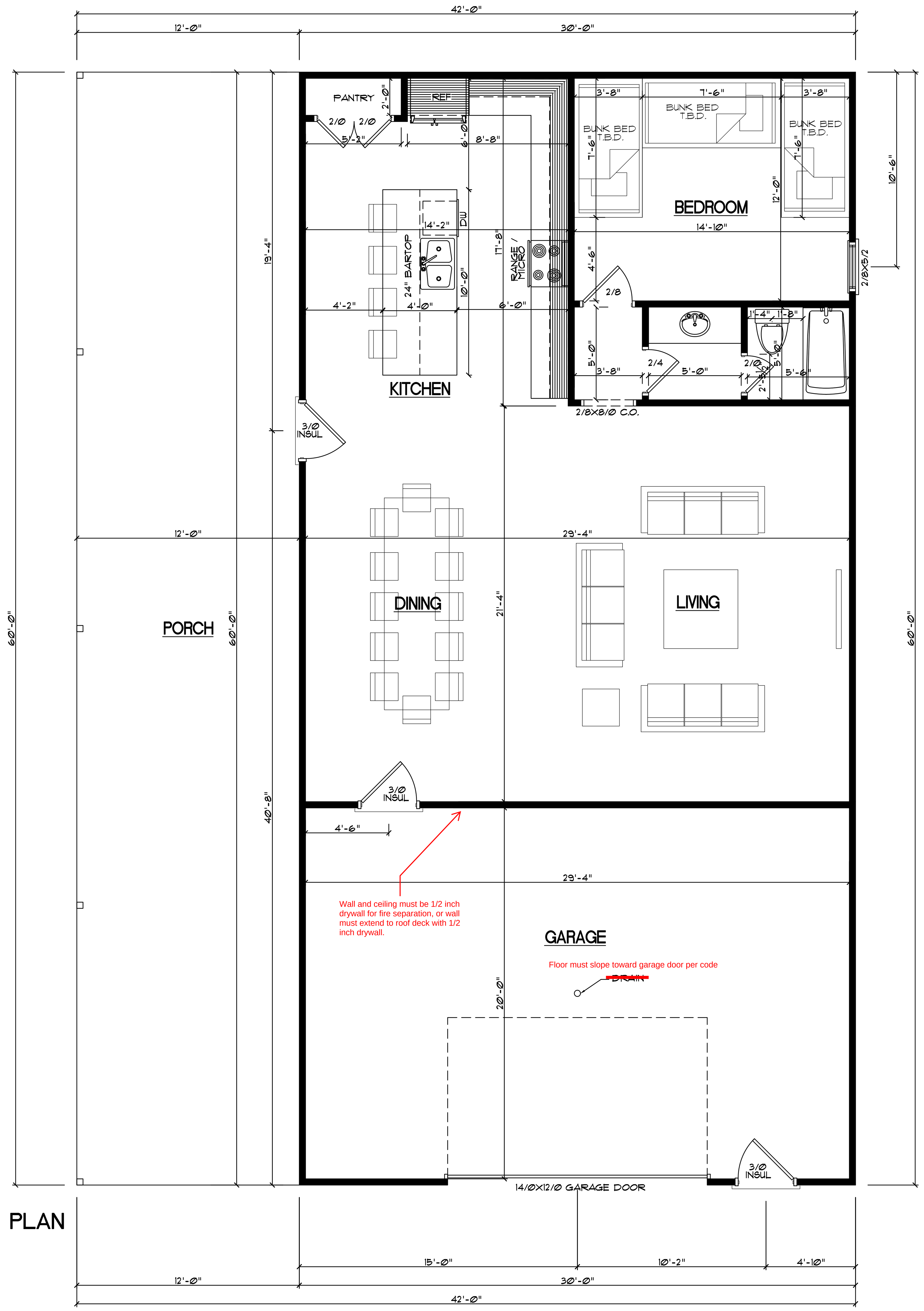
	CLIENT: CC	SHT. 13A	DWG. NO: SK-3	REV: 0



IRST FLOOR PLAN

SCALE: 1/4"=1'

PLANS ARE DESIGNED TO MEET THE REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION

GENERAL NOTES

WALLS:
ALL WALLS ARE DRAWN 4" THICK U.N.O.
ANGLED WALL ARE DRAWN @45° U.N.O.

SMOKE DETECTORS:
LOCATION AND NUMBER OF DETECTORS SHALL CONFORM TO NEC.

EGRESS:
ALL BEDROOMS MUST HAVE AT LEAST ONE WINDOW WHICH CONFORMS TO R-310 OF THE N.C. BLDG. CODE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY CHOSEN WINDOWS MEET EGRESS REQUIREMENTS AS MANUFATURERS VARY.

ATTIC ACCESS:
MIN. ATTIC ACCESS SHALL BE PROVIDED BY BUILDER AND LOCATED ON SITE.

WALL/CEILING HGT.
WALL AND CEILING HEIGHT NOTES ARE BASED ON NOMINAL WALL SIZE.
KNEE WALL HEIGHT LABELS FOR WALLS UNDER RAFTERS ASSUME AN EXTRA 2" FOR FURRING (IN HEATED SPACES) FOR INSULATION. THE WALL HEIGHT REFERS TO THE HGT. FROM THE FLOOR DECKING TO THE BOTTOM OF THE FURRING.

DIMENSIONS MAY VARY TO FIT IN PREFABRICATED METAL BUILDING. CONTRACTOR TO CONFIRM EXTERIOR WALL DIMENSIONS BEFORE CONSTRUCTION

Design Meister
P.O Box 447 Holly Springs, NC 27540 • 919-263-4047 • plans@thedesignmeister.com

WSP FARM LLC
CLUB HOUSE

Drawn by: KM
Date: 04/23/2020
Revision:

FIRST FLOOR

Sheet: A1