

## STRUCTURAL DESIGN

# **ENCLOSED BUILDING**

stomer Use Only\*\*

(F) MAXIMUM 24'- 0" WIDE X 17'- 0" EAVE HEIGHT-BOX EAVE FRAME AND BOW FRAME

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#### INSTALLATION NOTES AND SPECIFICATIONS

- 1 DESIGN IS FOR MAXIMUM 24'-0' WIDE x 17'-0' EAVE HEIGHT ENCLOSED STRUCTURES
- DESIGN WAS DONE IN ACCORDANCE WITH THE 2018 NORTH CAROLINA BUILDING CODE, 2017 FLORIDA BUILDING CODE (FBC) 6TH EDITION 2006 INTERNATIONAL BUILDING CODE (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 = 37 PSF AT 5'-0" DC SPACING

= 41 PSF AT 4'-0' DC SPACING

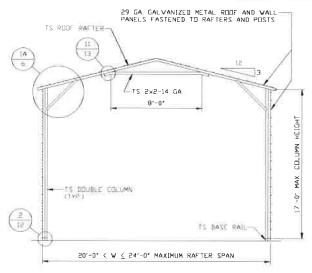
NOTE UNBALANCED SNOW LOADS DUE TO DRIFTING HAVE NOT BEEN EVALUATED

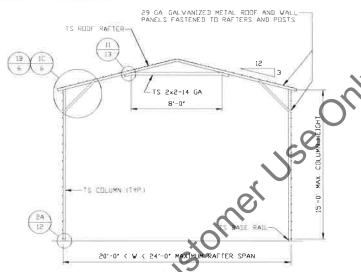
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- 4 ULTIMATE WIND SPEED 105 TO 127 MPH (NOMINAL WIND SPEED 82 TO 99 MPH) MAXIMUM RAFTER/COLUMN AND END COLUMN SPACING = 50 FEET
- ULTIMATE WIND SPEED 105 TO 140 MPH (NOMINAL WIND SPEED 82 TO 108 MPH) MAXIMUM RAFTER/COLUMN AND END COLUMN SPACING = 40 FEET
- 6 END WALL COLUMNS (POSTS) ARE SIMILAR TO SIDE WALL POSTS IN SIZE AND SPACING UNLESS NOTED OTHERWISE
- 7 RISK CATEGORY I:
- 8 WIND EXPOSURE CATEGORY B
- SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/4' x 2 1/4' 14 GAUGE TUBE SIEEL (TS) FRAMING MEMBERS (UNLESS NOTED OTHERWISE)
- 10 AVERAGE FASTENER SPACING DN-CENTERS ALONG RAFTERS OR HAT CHANNELS, AND COLUMNS (INTERIOR OR END) 8 INCHES
- 11 FASTENERS CONSIST OF #12-14×3/4" (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 L4" (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
- Carport Central Authorized Warutachurer 13 STANDARD GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 REBAR W/ WELDED NUT x 36' LONG SUIL 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

#### $20'-0'' < W \le 24'-0''$ SPAN

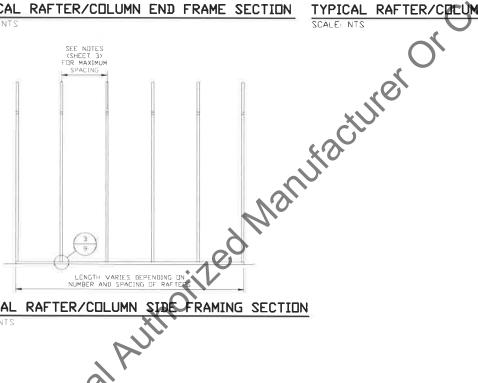




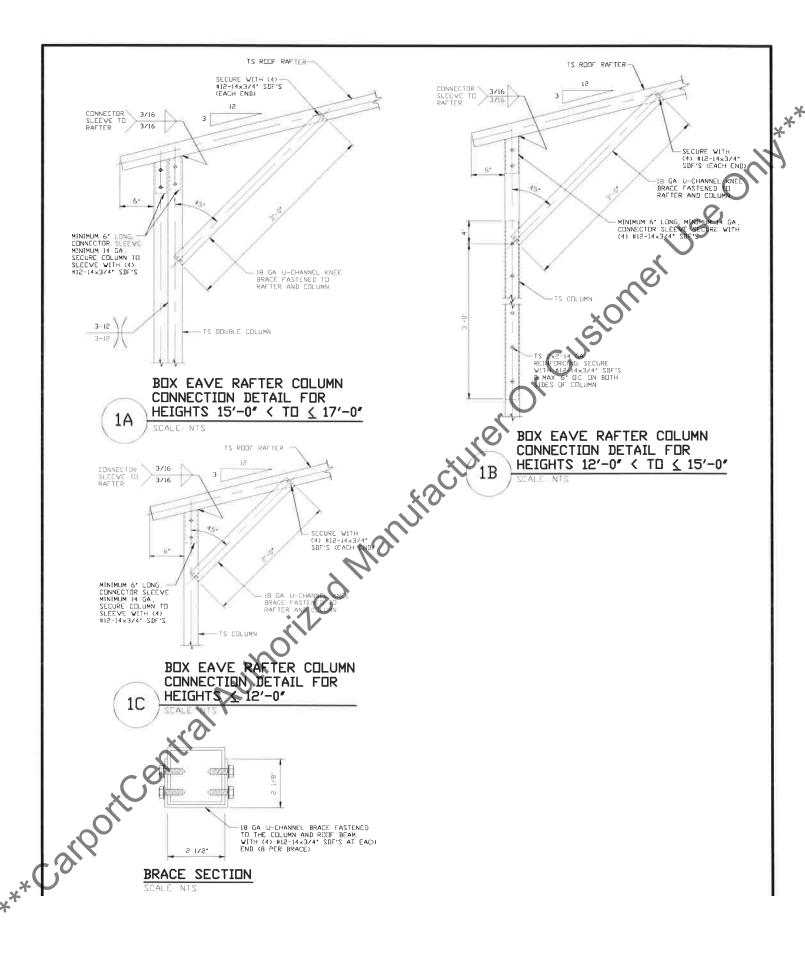
### TYPICAL RAFTER/COLUMN END FRAME SECTION

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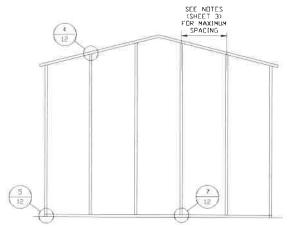
SCALE: NTS



-MN S RUIT TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
SCALE: NTS

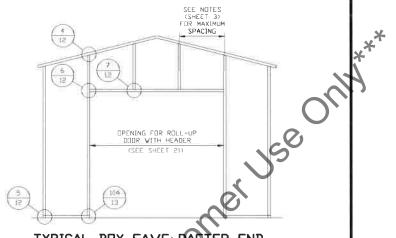




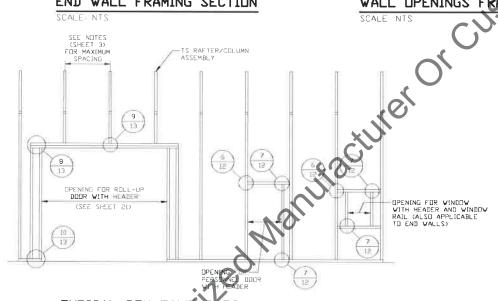


#### TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE! NTS



# TYPICAL BOX EAVE RAPTER END WALL OPENINGS FRAMING SECTION



TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION - OP AUT

