



90 Reserve Drive Fuguay Varina NC 27526

STRUCTURAL DESIGN

ENCLOSED BUILDING

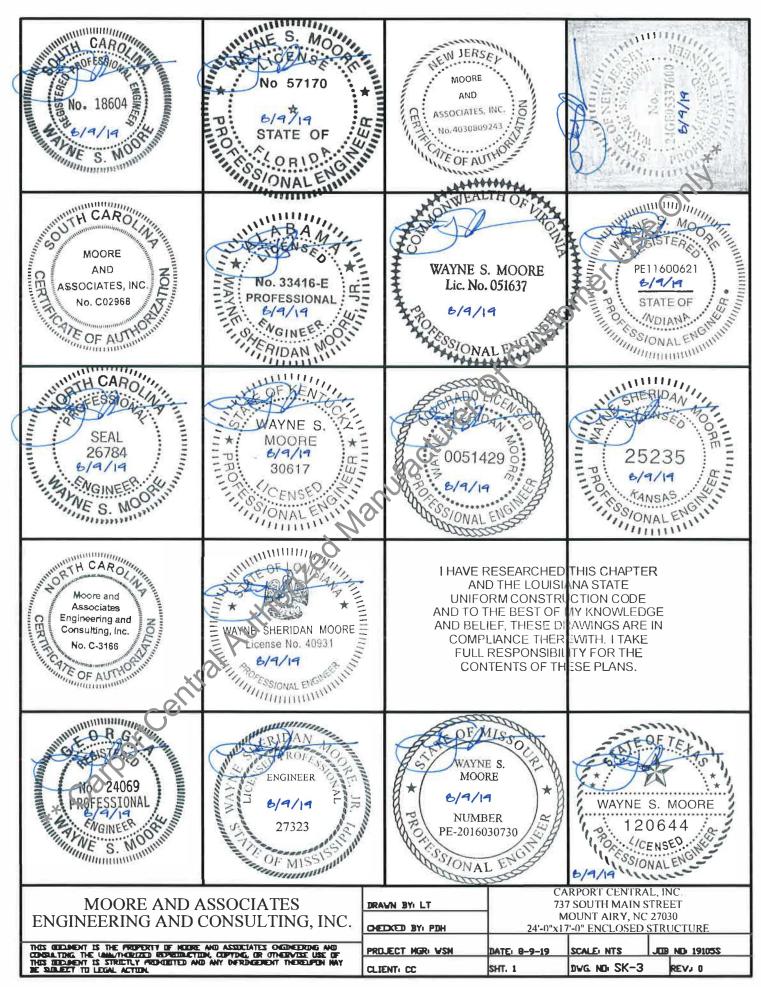
MAXIMUM 24'- 0" WIDE X 17'- 0" EAVE HEIGHT-BOX EAVE FRAME AND BOW FRAME

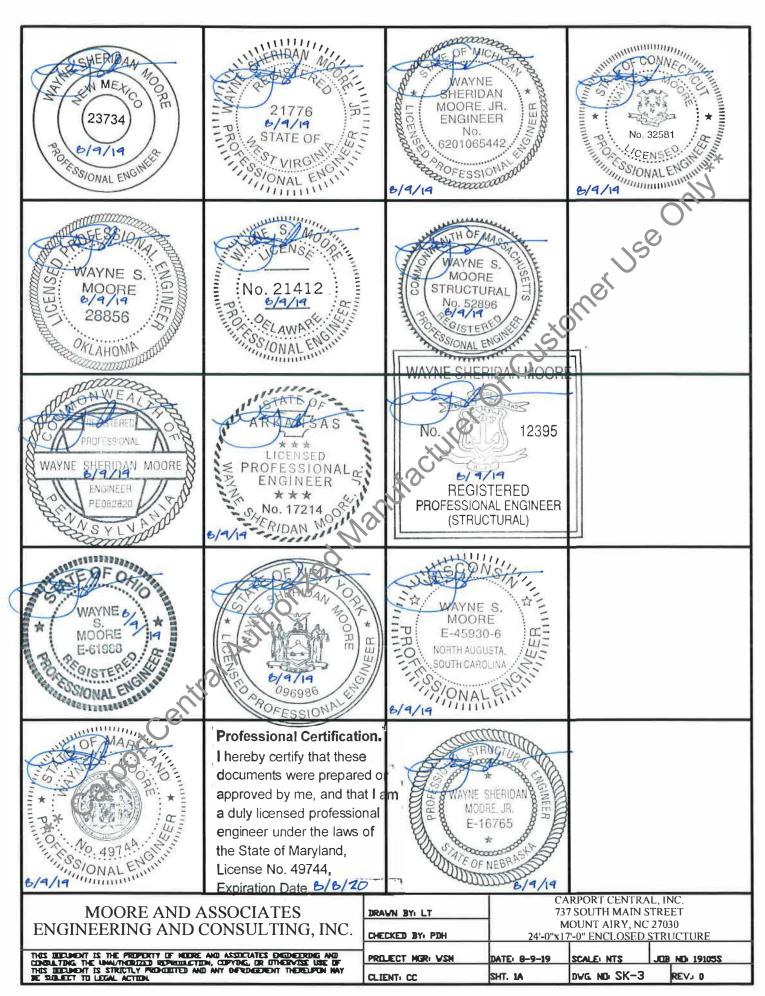
M&A Project

Prepared by:

1009 East Avenue
North Augusta, SC 2094 rport Central, Inc.







INSTALLATION NOTES AND SPECIFICATIONS

- 1 DESIGN IS FOR MAXIMUM 24'-0" WIDE x 17'-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 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 PSFB) LIVE LOAD = 12 PSF

= 37 PSF AT 5'-0' DC SPACING C) GROUND SNEW LOAD = 41 PSF AT 4'-0" DC SPACING

NOTE UNBALANCED SNOW LOADS DUE TO DRIFTING HAVE NOT BEEN EVALUATED

- 4 ULTIMATE WIND SPEED 105 TO 127 MPH (NOMINAL WIND SPEED 82 TO 99 MPH) MAXIMUM RAFTER/COLUMN AND END COLUMN SPACING = 50 FEE
- ULTIMATE WIND SPEED 105 TO 140 MPH (NOMINAL WIND SPEED 82 TO 108 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 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 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 #12-14×3/4* (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, AOL 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
- 12 ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6" OF EACH COLUMN
- Carport Central Authorited Manufacturer of 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

 WIND FORCES GOVERN OVER SEISMIC STROSSO OFFICE

John Thomas 90 Reserve Drive

Fuguay Varina NC 27526 CARPORT CENTRAL, INC

737 SOUTH MAIN STREET MOUNT AIRY, NC 27030 24'-0"x17'-0" ENCLOSED STRUCTURE

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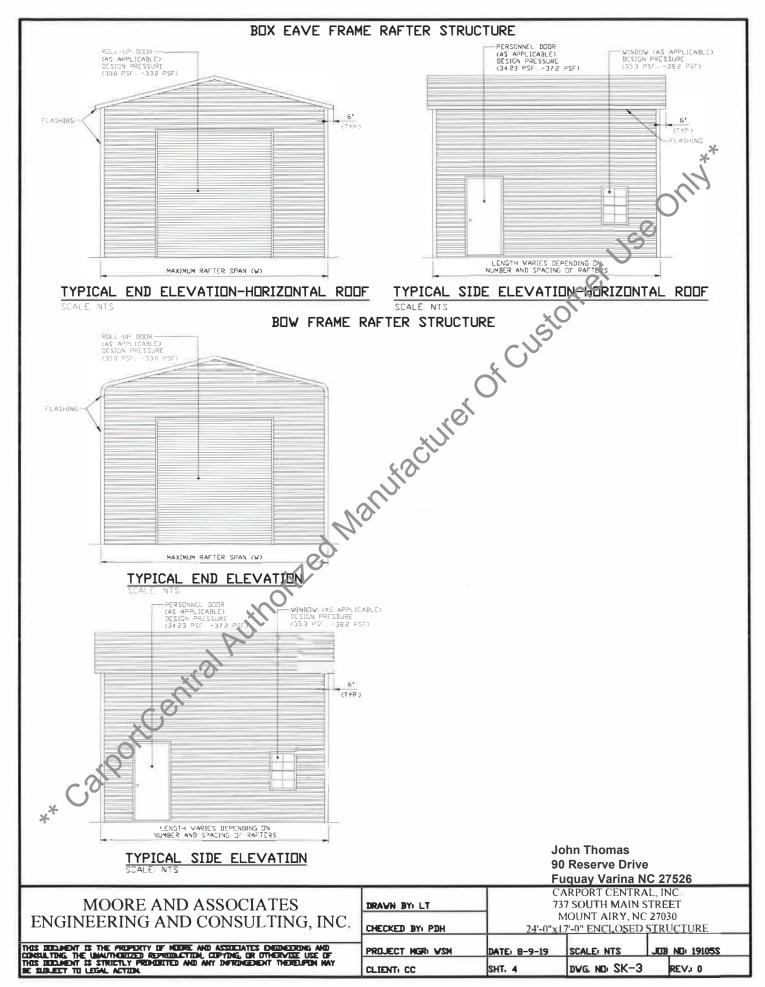
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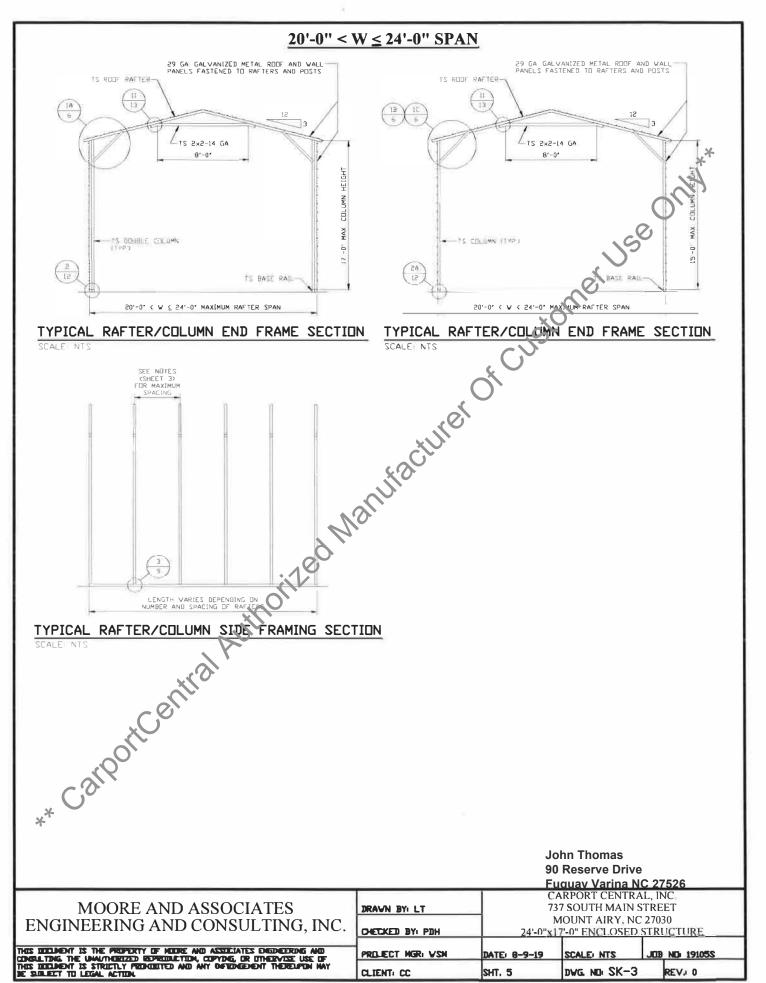
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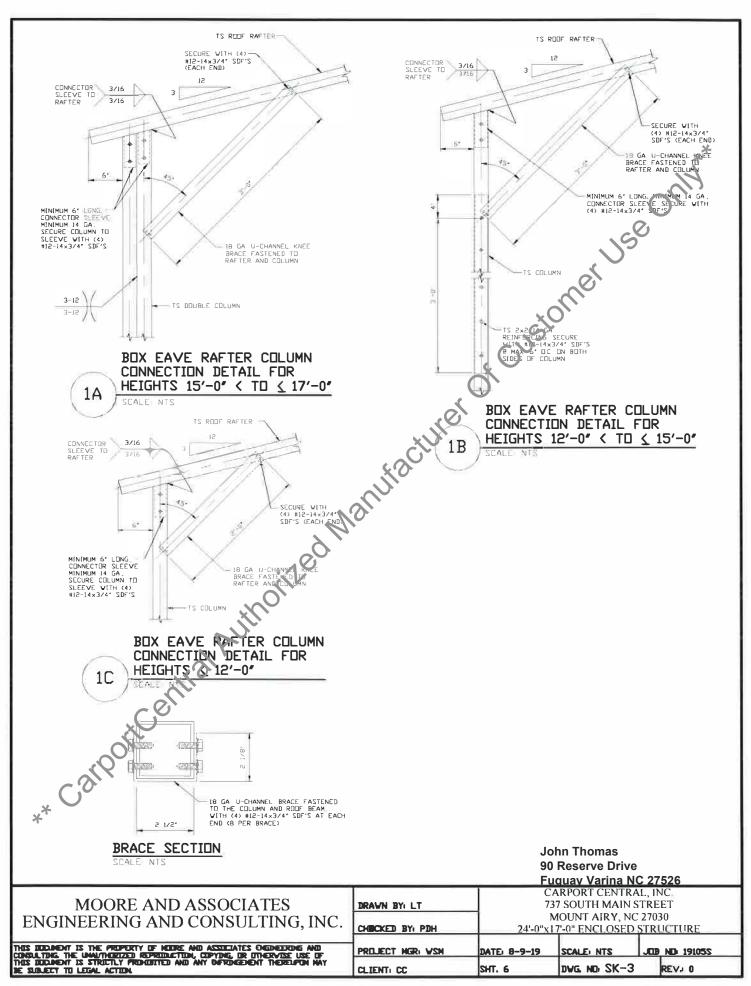
PROJECT MGR: VSM DATE: 8-9-19 SCALE: NTS JOB NO 19105S DWG. NO: SK-3 CLIENT: CC знт, э REVJ 0

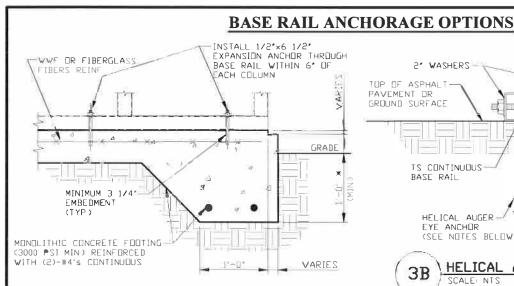
DRAWN BY: LT

CHECKED BY: PDH











CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

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 FABROS MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT REINFORCEMENT MAY RF RFNT IN THE

REINFORCEMENT MAY BE BENT IN THE SHOP OR THE FIELD PROVIDED:

REINFORCEMENT IS BENT COLD
THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE
BAR, IS NOT LESS THAN SIX-BAR DIAMETERS

IN CONCRETE SHALL NOT REINFORCEMENT PARTIALLY EMBEDDED BE FIELD BENT

- HELICAL AUGER ANCHOR NOTES:

 1 FOR VERY DENSE AND/OR CEMENTED SANDS, COARSE GRAVEL AND COBBLES, CALICHE, PRESONDED SILTS AND CLAYS, USE MINIMUM (2) 4' HELICES WILL 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 OR SINGLE 6' HELIX WITH MINIMUM
- 50' EMBEDMENT
- 3 FOR MEDIUM DENSI COARSE SANDS, SANDY GRAVELS, VERY
 STIFF SILTS AND CLAYS USE MINIMUM (2) 4' HELICES WITH
 MINIMUM 3(INCH EMBEDMENT OR SINGLE 6' HELIX WITH MINIMUM
 50' EMBEDMENT
 4 FOR LOGSL TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND
 SILTS LLUVIAL FILL, USE MINIMUM (2) 6' HELICES WITH MINIMUM
- SILTS LLUVIA
- FOR VERY LOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER CLAYS AND SILTS, ALLUVIAL FILL, USE MINIMUM (2) 8' HELICES WITH MINIMUM 50° EMBEDMENT

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2' WASHERS DRILL 5/8" DIAMETER HOLE TOP OF ASPHALT-THROUGH THE BASE RAIL AND SECURE TO ANCHOR EYE WITH PAVEMENT DR GROUND SURFACE 1/2' DIAMETER THROUGH BOLT seonli TS CONTINUOUS BASE RAIL HELICAL AUGER EYE ANCHOR (SEE NOTES BELOW) AN BE AUGER AND HURAGE HELICAL FOR ASPHALT) (CAN BE | SED

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CARPORT CENTRAL, INC 737 SOUTH MAIN STREET

MOUNT AIRY, NC 27030 24'-0"x17'-0" ENCLOSED STRUCTURE

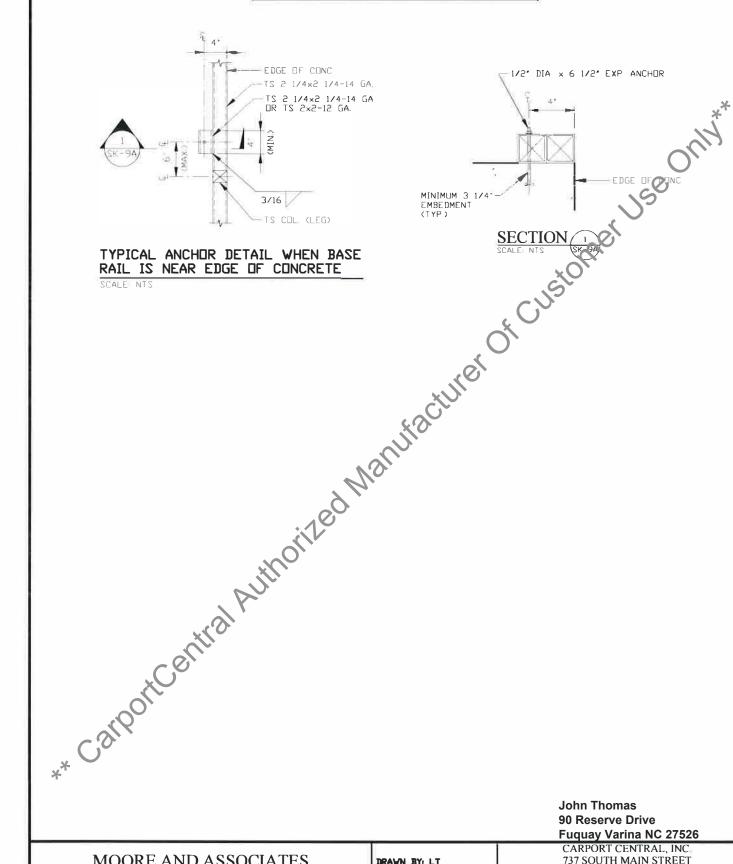
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DRAWN BY: LT

CHECKED BY: PDH

BASE RAIL ANCHORAGE OPTIONS



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CARPORT CENTRAL, INC. DRAWN BY: LT 737 SOUTH MAIN STREET MOUNT AIRY, NC 27030 CHECKED BY: PDH 24'-0"x17'-0" ENCLOSED STRUCTURE PROJECT HOR! WSH SCALE: NTS JOB NO 191056 DATE: 8-9-19 SHT. 9A DVG. NO SK-3 REV. 0 CLIENT: CC

