USE ORIV



STRUCTURAL DESIGN

ENCLOSED BUILDING

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

19 May 2022 Revision 1 M&A Project No. 19105S/21401S

Prepared fer

Carport Central, Inc. 1018 Rockford Street Mount Airy, NC 27030

Prepared by:

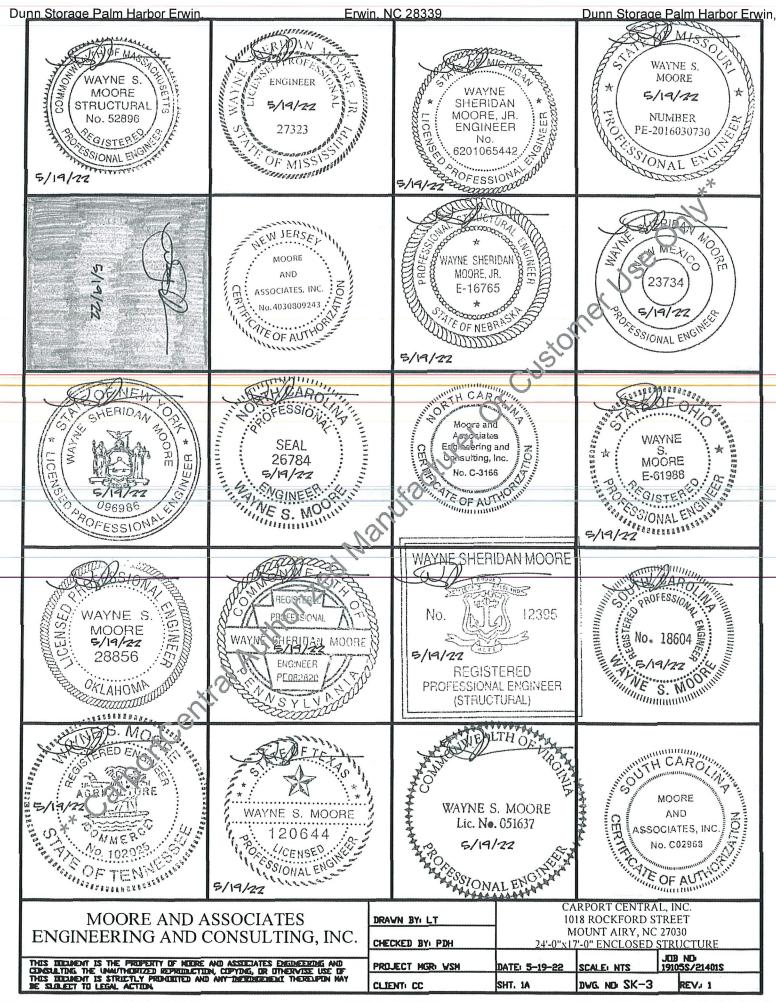
Moore and Associates Engineering and Consulting, Inc.

1009 East Avenue North Augusta, SC 29841

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



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	M	O UNTAIRY, NO	27030
DRAWN BY: LT	10	18 ROCKFORD S	TREET
	CA	RPORT CENTRA	L, INC.

PROJECT MGR: WSM DATE: 5-19-22 SHT. 2 DAC NO 2K-3 CLIENT: CC REV. 1

LIST OF APPLICABLE BUILDING CODES

2021 INTERNATIONAL BUILDING CODE (IBC 2021)

2018 INTERNATIONAL BUILDING CODE (IBC 2018)

2015 INTERNATIONAL BUILDING CODE (IBC 2015)

2012 INTERNATIONAL BUILDING CODE (IBC 2012)

2009 INTERNATIONAL BUILDING CODE (IBC 2009)

2006 INTERNATIONAL BUILDING CODE (IBC 2006)

BUILDING CODE 2021 OF ALABAMA (ADOPTS THE IBC 2021 WITHOUT AMENDMENTS) (IBC 2015, IBC 2018, IBC 2021 (DEPENDENT UPON LOCAL JURISDICTION))

ARKANSAS FIRE PREVENTION CODE, VOL. II BUILDING (ADOPTS THE IBC 2012 WITH AMENDMENTS)

BUILDING CODE 2021 OF COLORADO (ADDPTS THE IBC 2021 WITH AMENDMENTS) (IBC 2012, IBC 2015, IBC 2018, IBC 2021 (DEPENDENT UPON LOCAL JURISDICTION))

2015 IBC PORTION OF THE 2018 CT STATE BUILDING CODE (ADDPTS THE IBC 2015 WITH AMENDMENTS)

DELAWARE BUILDING CODE (IBC 2012, IBC 2015, IBC 2018 (DEPENDENT UPON LOCAL JURISDICTION>>

2020 FLORIDA BUILDING CODE, 7TH EDITION (ADOPTS THE IBC 2018 WITH AMENDMENTS)

GEORGIA STATE MINIMUM STANDARD BUILDING CODE (ADOPTS THE IBC 2018 WITH AMENDMENTS)

BUILDING CODE 2018 OF IDAHO (ADDIPTS THE IBC 2018 WITH AMENDMENTS)

INDIANA BUILDING CODE, 2014 EDITION (ADOPTS THE IBC 2012 WITH AMENDMENTS)

BUILDING CODE 2015 OF IDWA (ADOPTS THE IBC 2015 WITH AMENDMENTS)

BUILDING CODE 2018 OF KANSAS (ADDPTS THE IBC 2018 WITH AMENDMENTS)

2018 KENTUCKY BUILDING CODE (ADOPTS THE IBC 2015 WITH AMENDMENTS)

BUILDING CODE 2015 OF LOUISIANA CADORTS THE IBC 2015 WITH AMENDMENTS:

BUILDING CODE 2018 OF MARYLAND (ADOPTS THE IBC 2018 WITH AMENDMENTS)

MA STATE BUILDING CODE, 9TH ED, BASE COLUME (ADOPTS THE IBC 2015 WITH AMENDMENTS)

2015 MICHIGAN BUILDING CODE (ADDPTS THE IBC 2015 WITH AMENDMENTS)

BUILDING CODE 2018 OF MISSISSUPPI (ADDPTS THE IBC 2018 WITHOUT AMENDMENTS)
(IBC 2012, IBC 2015 AND IBC 2018
(DEPENDENT UPON LOCA JURISDICTION))

BUILDING CODE 2018 OF MISSOURI
(ADOPTS THE IBC 2018 WITHOUT AMENDMENTS)
(IBC 2006, IBC 2009, IBC 2012, IBC 2015, IBC 2018
(DEPENDENT OF A LOCAL JURISDICTION))

BUILDING 200E 2018 OF NEBRASKA (ADDITS HE IBC 2018 WITH AMENDMENTS)

BUILDING CODE 2018 OF NEW JERSEY (ADDPTS THE IBC 2018 WITH AMENDMENTS)

2015 NEW MEXICO COMMERCIAL BUILDING CODE (ADOPTS THE IBC 2015 WITH AMENDMENTS)

2020 BUILDING CODE OF NEW YORK STATE (ADOPTS THE IBC 2018 WITH AMENDMENTS) NYC BUILDING CODE 2014 (ADDPTS THE IBC 2009 WITH AMENDMENTS)

2018 NORTH CAROLINA BUILDING CODE (ADDPTS THE IBC 2015 WITH AMENDMENTS)

OHIO BUILDING CODE 2017 (ADDPTS THE IBC 2015 WITH AMENDMENTS)

BUILDING CODE 2018 OF OKLAHOMA (ADOPTS THE IBC 2018 WITH AMENDMENTS)

BUILDING CODE 2018 OF PENNSYLVANIA CADOPTS THE IBC 2018 WITH AMENDMENTS)
PHILADELPHIA BUILDING CODE CADDRIS THE IBC 2018 WITH AMENDMENTS

2022 RHODE ISLAND BUILDING CODE (ADOPTS THE IBC 2018 WITH AMENIMFINTS)

2018 SOUTH CAROLINA BUILDING CODE (ADDPTS THE IBC 2018 WITH AMENDMENTS)

BUILDING CODE 2012 OF TENNESSEE (ADOPTS THE IBC 2013 VITH AMENDMENTS) BUILDING CODE 2016 OF NASHVILLE AND DAVIDSON COUNTY (ADOPTS THE IBC 2018 WITH AMENDMENTS)

JAVIDSI
AMENDMENTS

IEXAS INDUSTRIALIZED

IBC 2015 WITH AMENDMENTS)

DALLAS BUILDING CODE (ADOPTS THE IBC 2015)

WITH AMENDMENTS)

(IBC 2006, IBC 2009, IBC 2012, IBC 2015, IBC 2018, IBC 2021 (DEPENDENT UPON LOCAL JURISDICTION))

2018 VIRGINIA CONSTRUCTION CODE (ADOPTS THE IBC 2018 WITH AMENDMENTS)

BUILDING CODE 2015 OF WEST VIP

(ADOPTS THE IBC 2015 WITH

BUILDING CODE 2015 WITH

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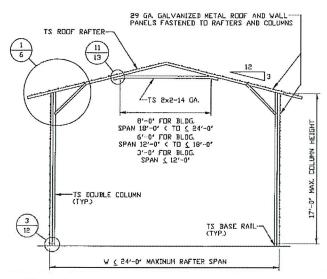
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• "	CHECKED BY: PDH		MOUNT AIRY, NC 27030 24'-0"x17'-0" ENCLOSED STRUCTURE				
	DRAWN BY: LT		CARPORT CENTRAL, INC. 1018 ROCKFORD STREET				

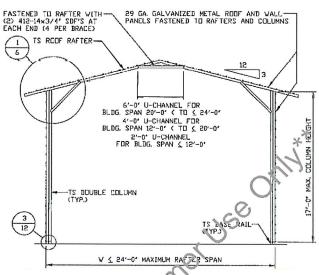
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SHT. 3A

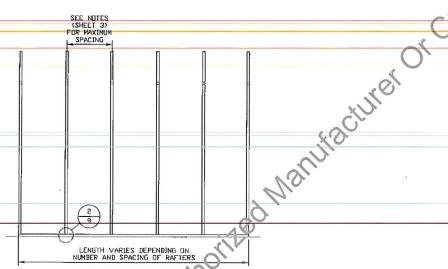
REV. 1



TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE, NTS



TYPICAL RAFTER/CD MN FRAME SECTION SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

SCALE, NTS

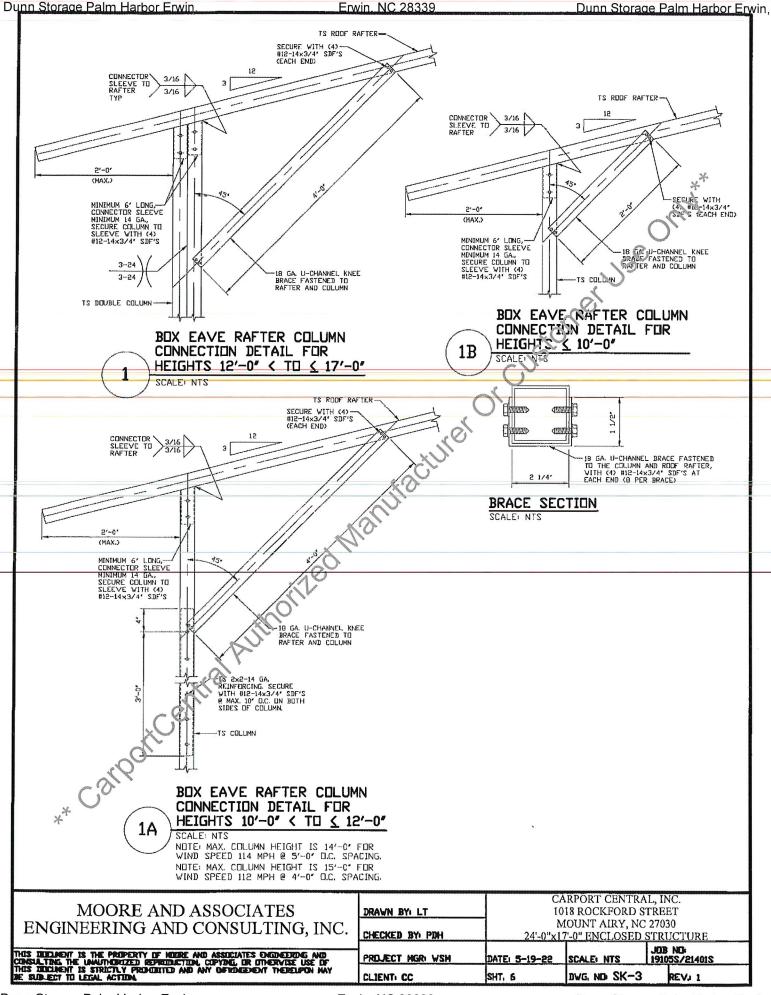
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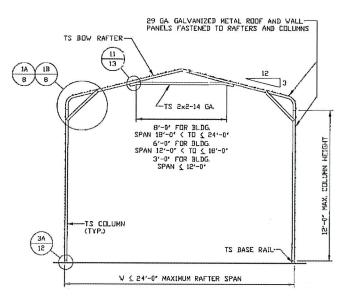
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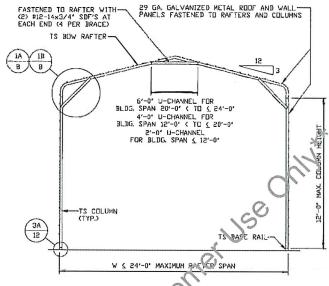
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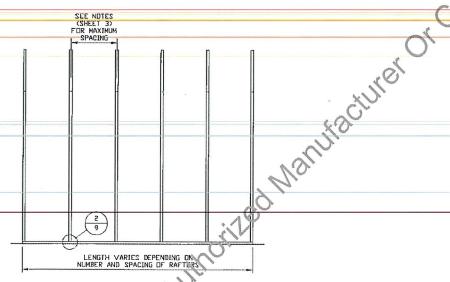




TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS

RAFTER/CELUMN FRAME SECTION **TYPICAL** SCALE: NTS



Carport Central TYPICAL RAFTER/COLUMN FRAMING SIDE SECTION

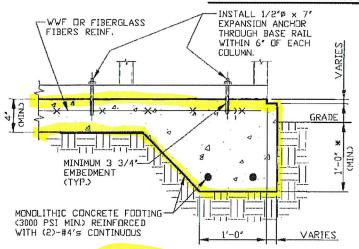
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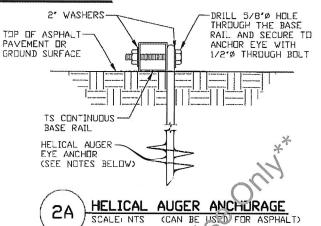
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	CLIENT: CC	SHT, 7A	DWG, ND SK-3		REV. 1	

BASE RAIL ANCHORAGE OPTIONS





2

CONCRETE MONOLITHIC SLAB BASE RAIL ANCHURAGE

MINIMUM ANCHOR EDGE DISTANCE IS 4'.

* COORDINATE WITH LOCAL CODES/ORD.

DRILL 5/8'Ø HOLE THROUGH THE BASE RAIL AND SECURE TO ANCHOR ENE VITH 1/2'Ø THROUGH BOLT 2" WASHERS TOP OF ASPHALT 2 1/4'x2 1/4x1/4'x2 1/2" PAVEMENT DR LONG ANGLE marneme

-ROCK/ROCK

CONTAINING SOILS

GENERAL NOTES

NOTE: CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 1,500 PSF.

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 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:

- REINFORCEMENT IS BENT COLD.
 THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS.
 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 CUBBLES, CALICHE, PRELEASED 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' EMPENYENT 50' EMBEDMENT.
- 3. FOR MEDIUM DENS: CLARSE SANDS, SANDY GRAVELS, VERY STIFF SILTS, A TO CLAYS USE MINIMUM (2) 4' HELICES WITH MINIMUM 30 INCH EMBEDMENT OR SINGLE 6' HELIX WITH MINIMUM 50' EMBEDMENT.
- FOR LOISE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS ACLOVIAL 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.

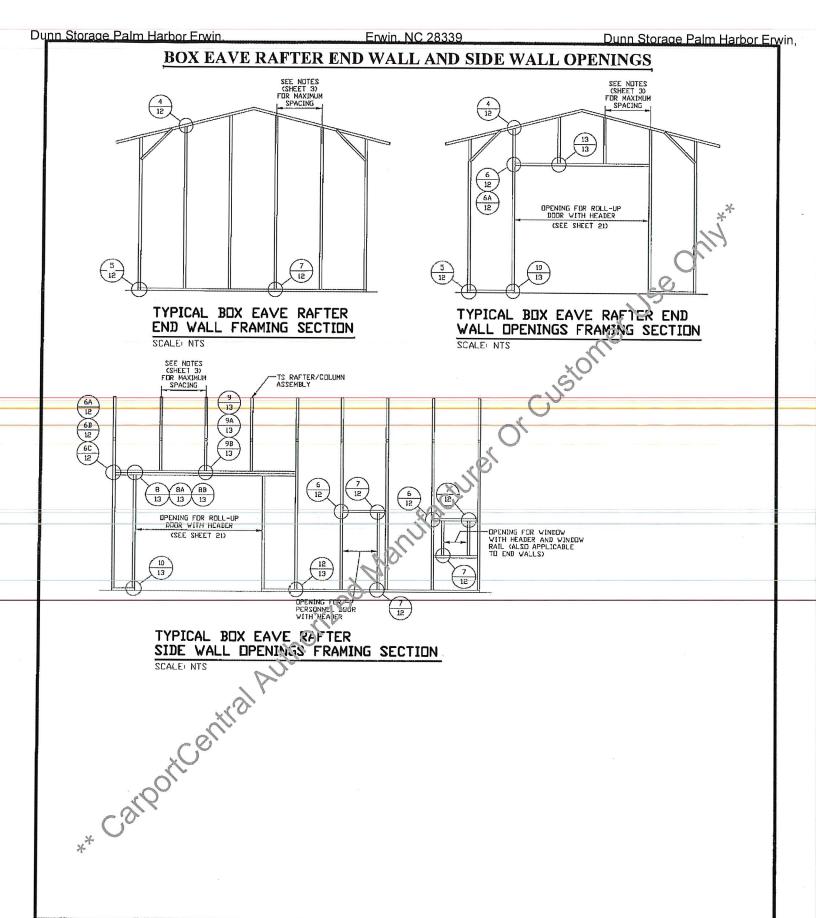
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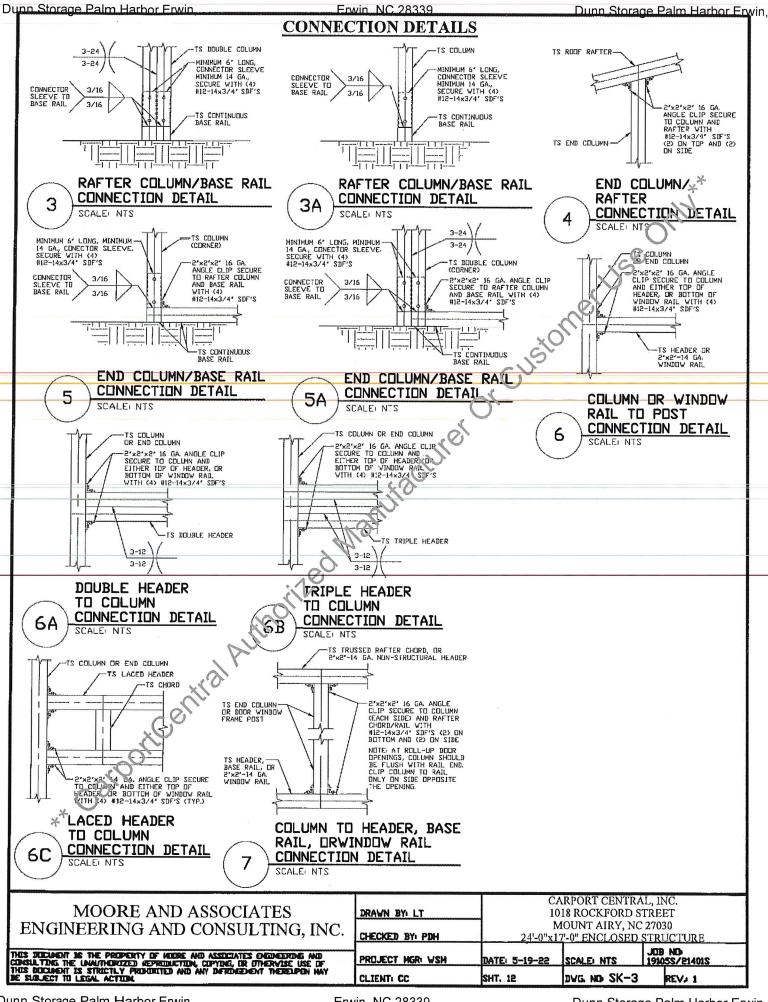
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•	CHECKED BY PDH	MOUNT AIRY, NC 27030 24'-0"x17'-0" ENCLOSED STRUCTURE				
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BARBED DRIVE <u>ANCHORAGE</u>

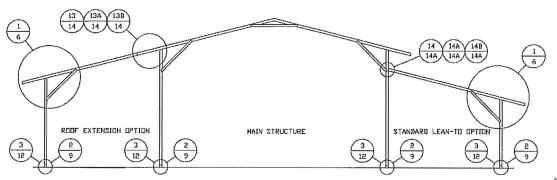
SCALE: NTS * COORDINATE WITH LOCAL CODES/ORD, REGARDING MINIMUM FROST DEPTH REQ.



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BOX EAVE RAFTER LEAN-TO OPTIONS



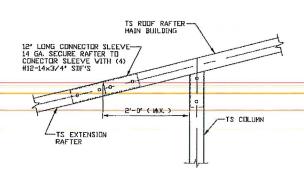
TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)

SCALE: NTS

13

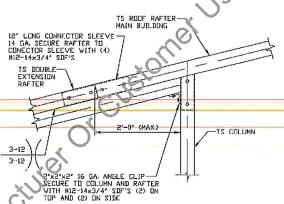
NOTE: REFER TO SHEET 6 FOR COLUMN HEIGHTS.

NOTE: LEAN-TO COLUMN SPACING MATCHES MAIN BUILDING COLUMN SPACING.



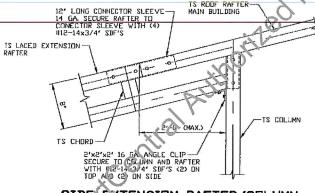
SIDE EXTENSION RAFTER/COLUMN DETAIL FOR SPAN \(\sigma \) 10'-0'

SCALE: NTS NOTE: MAXIMUM SINGLE TUBE LEAN-TO SPAN IS 12'-0' FOR GROUND SNOW LOAD ≤ 17 PSF FOR 5'-0' D.C. AND ≤ 27 PSF FOR 4'-0' D.C..



SIDE EXTENSION RAFTER/COLUMN

13A DETAIL FOR SPAN 10'-0" < L \(\lambda \) 16'-0"



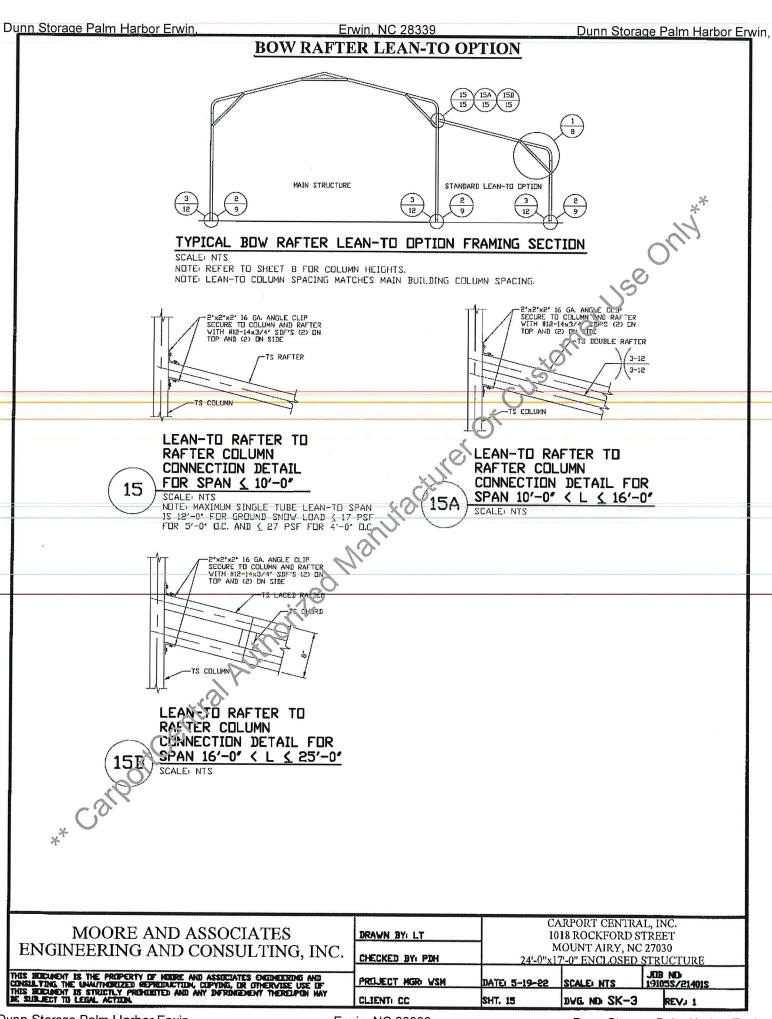
SIDE EXTENSION RAFTER/COLUMN
DEVAIL FOR SPAN 16'-0' < L < 25'-0"

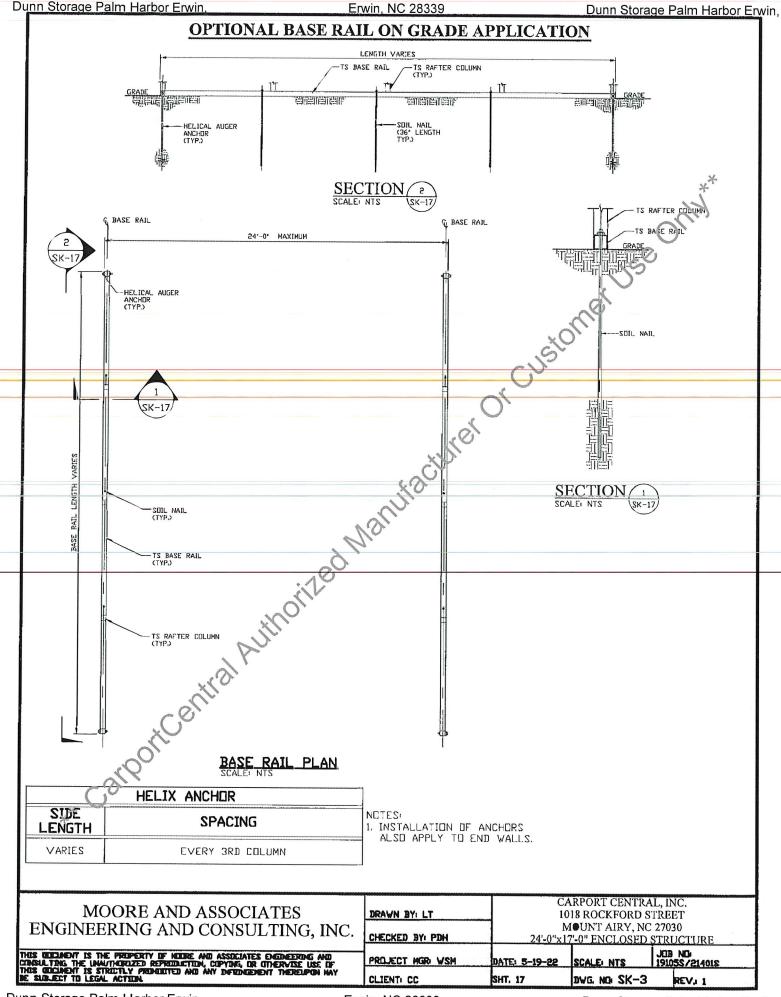
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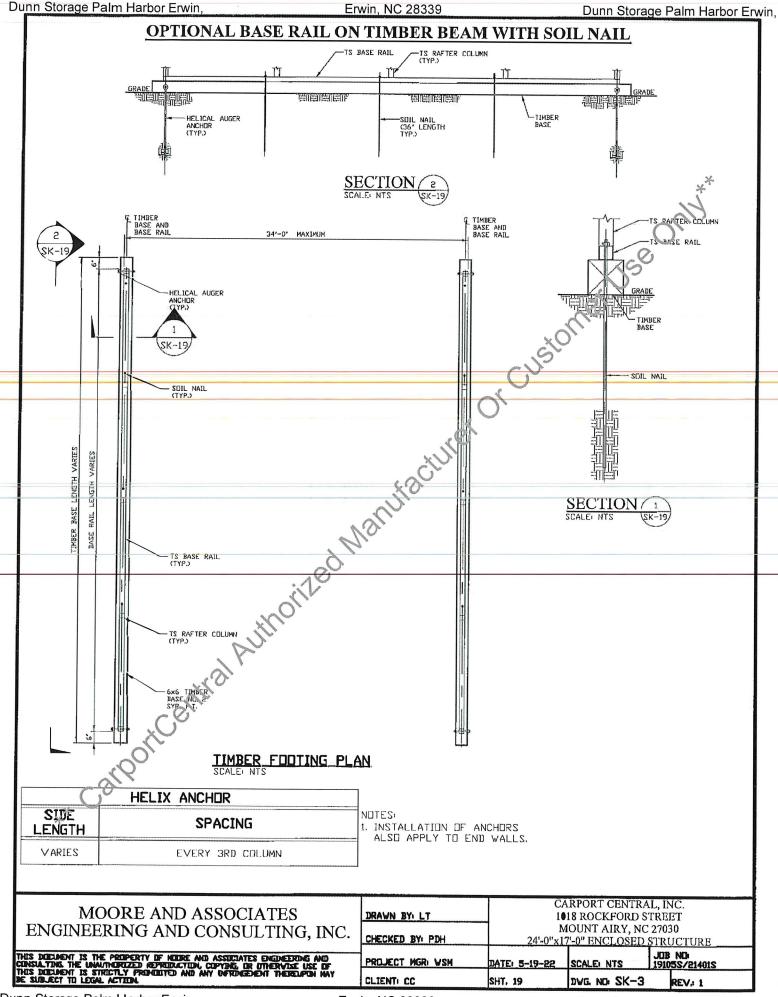
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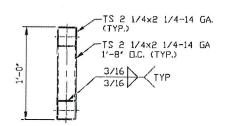




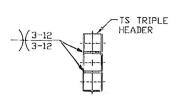


SIDE WALL HEADER OPTIONS

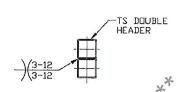
NOTE: HEADER DESIGN DOES NOT TAKE IN TO ACCOUNT ADDITIONAL ROOF LOADING FROM ATTACHED LEAN-TO STRUCTURES.



HEADER DETAIL FOR DOOR OPENINGS 16'-0" < LENGTH < 20'-0"



HEADER DETAIL FOR DOOR OPENINGS 11'-0" < LENGTH ≤ 16'-0" SCALE: NTS



HEADER DETAIL DOOR OPENINGS 7'-0" < LENGTH 11'-0" SCALE: NTS

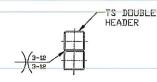
Customer



HEADER DETAIL FOR DOOR OPENINGS < 7'-0"

SCALE: NTS NOTE: MAXIMUM SINGLE TUBE HEADER SPAN IS 6'-0' FOR 4'-0' D.C. SPACING.

END WALL HEADER OPTIONS



HEADER DETAIL FOR ** CarportCentral Auth DOOR OPENINGS

HEADER DETAIL FOR DOOR OPENINGS ≤ 12'-0"

SCALE: NTS

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CARPORT CENTRAL, INC. 1018 ROCKFORD STREET MOUNT AIRY, NC 27030 24'-0"x17'-0" ENCLOSED STRUCTURE

PROJECT MGR: WSM DATE: 5-19-22 21 TH2 CLIENT: CC

SCALE: NTS DWG. NO SK-3

JOB NO 19105S/21401S REVA 1