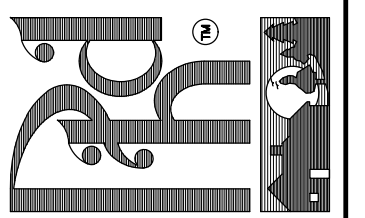


DATE:
MARCH 10, 2022

REVISIONS
DATE:

PROFESSIONAL HOME DESIGN
RANDALL K. PALE
1539 HATTERDALE FARM ROAD
BLOUNTVILLE, TN - 37617
O: (910) 257-5588
e-mail: rpkaphd@gmail.com
© 2022, Professional Home Design



(LIVING QUARTERS OF 60' x 100' BUILDING)
FRONT ELEVATION
SCALE: 1/4" = 1'-0"

THIS PLAN IS DESIGNED TO MEET THE REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE 2018 EDITION

NOTICE TO CONTRACTOR
All construction must comply with current NC Building Codes and is subject to field inspection and verification.

APPROVED
Limited building only review
Permit holder responsible for full compliance with the code

04/07/2022

SEE COMPLIANCE NOTES PAGES
A-2 and A-3

INSULATION and FENESTRATION REQUIREMENTS

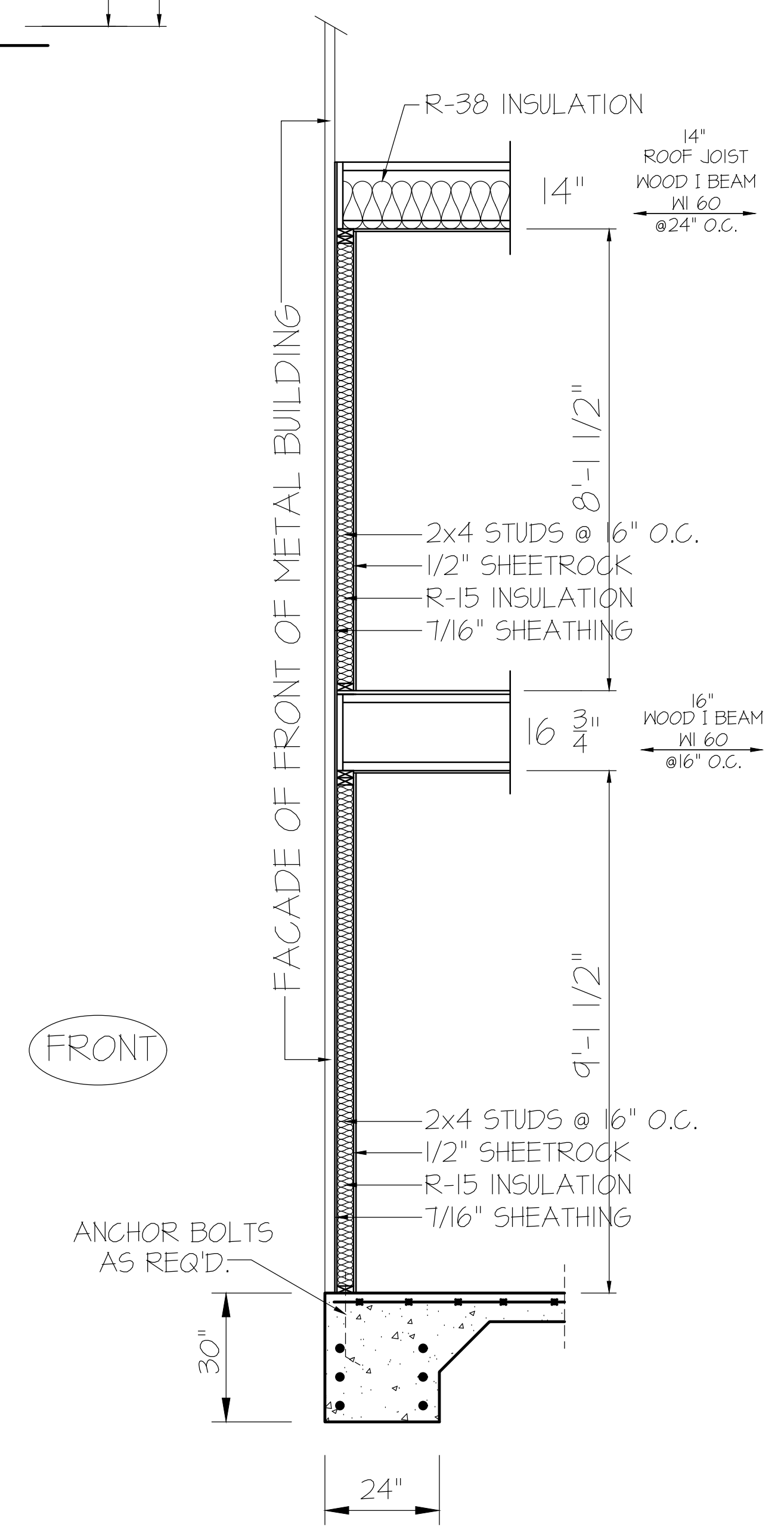
CLIMATE ZONE	ZONE-3	ZONE-4
FENESTRATION U-FACTOR	0.35	0.35
GLAZED FENESTRATION SHGC	0.30	0.30
MINIMUM CEILING R-VALUE	R-38	R-38
MINIMUM WALL R-VALUE	R-15, 13+25	R-15, 13+25
MINIMUM FLOOR R-VALUE	R-19	R-19
MIN. CRAWL SPACE WALL R-VALUE	5/8	10/15
MIN. SLAB R-VALUE	0	R-10

PROVIDE STEPS AS REQUIRED
GRADE MAY VARY - BUILDER TO VERIFY

WIND ZONES (PER TABLE R301.2(4))

COUNTY	MPH
MONTGOMERY	115
MOORE	115
STANLY	115
RANDOLPH	115

ALL EXTERIOR WALLS TO BE SHEATHED WITH CS-MSP (1/16" OSB) IN ACCORDANCE WITH SECTION R602.10.3 UNLESS OTHERWISE NOTED.



TYP. WALL DETAIL
SCALE: 1/2" = 1'-0"

CONTRACTOR INFORMATION

PROJECT LOCATION:
Edward GAINER

PROJECT NAME:
GAINER

SCALE: 1/4" = 1'-0"
NOTE: IF THIS DRAWING IS NOT PLOTTED ON 24" x 36", IT HAS BEEN REVERSED FROM ITS ORIGINAL SIZE. SCALE IS NO LONGER APPLICABLE.

SHEET TITLE:
ELEVATION

SHEET NO.
A-1

CONTRACTOR TO USE CARPORT CENTRAL DESIGN METAL BUILDING PACKAGE
 THE FOLLOWING INFORMATION WAS OBTAINED FROM MOORE AND ASSOCIATES
 ENGINEERING AND CONSULTING, INC. (BASE RAIL ANCHORAGE OPTIONS FOR 140 MPH)

SEE PACKAGE SPECIFICATION SHEET FOR DETAILS - SHEET 9A

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.

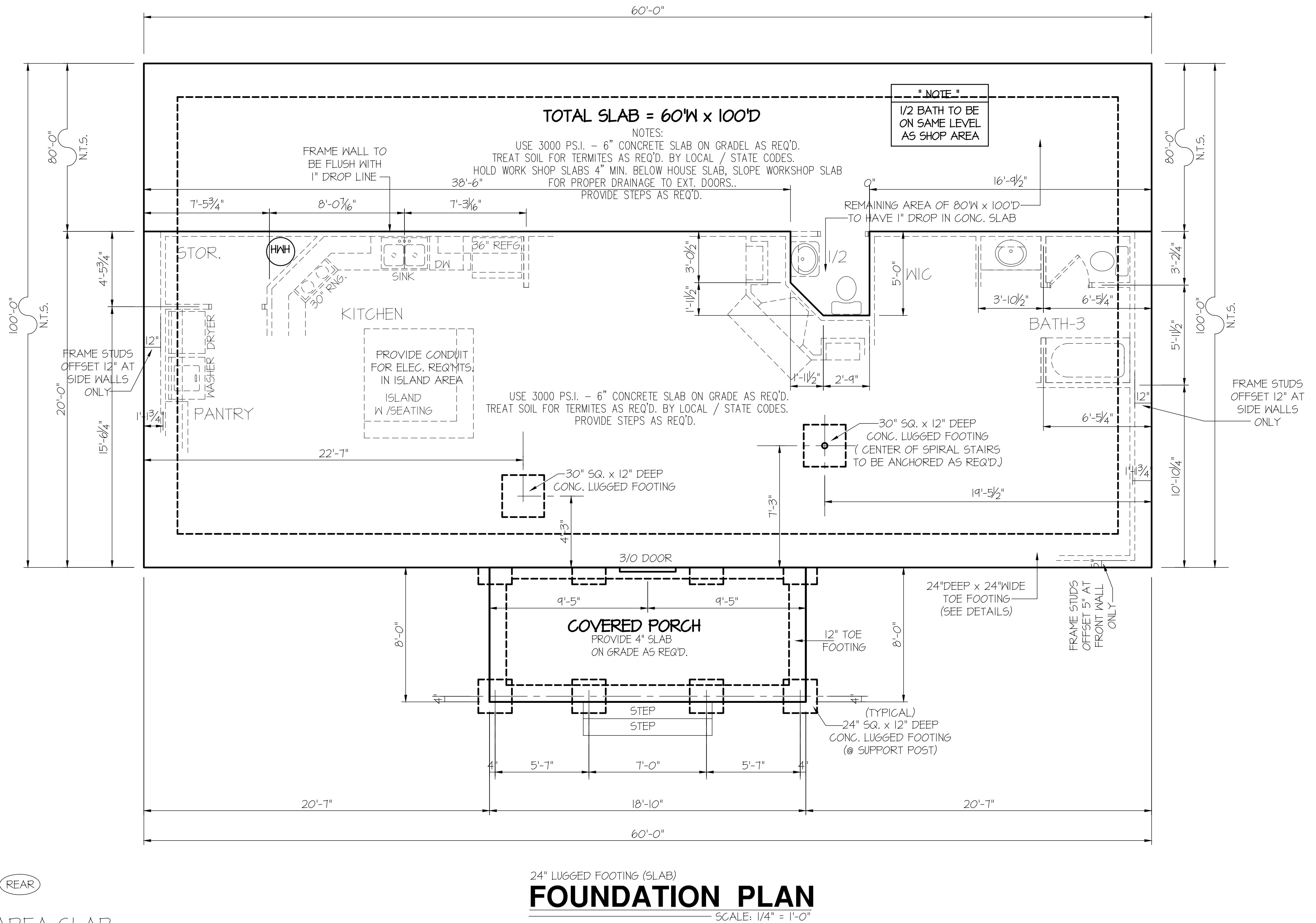
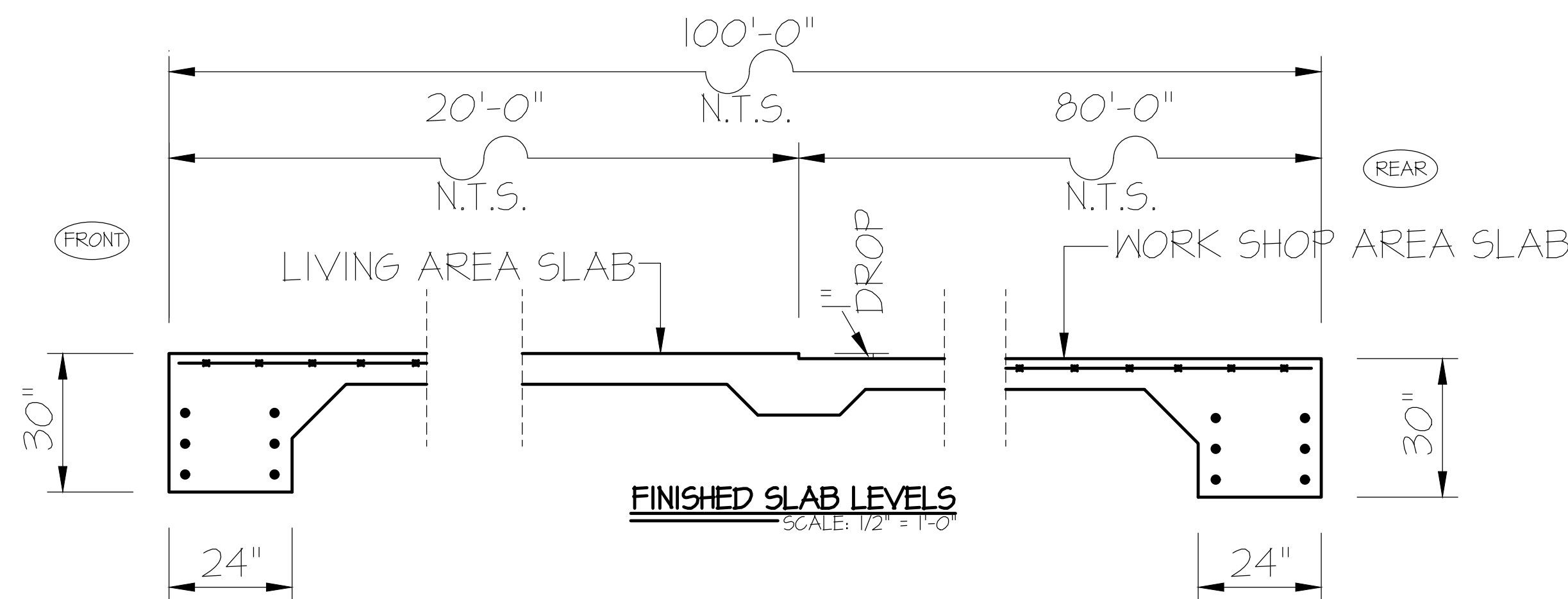
REINFORCING STEEL:

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.

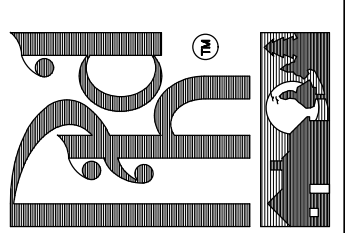
N.C. SPECIFIC COMcheck or ASHRAE 90.1 2013 COMcheck SHALL BE PERMITTED TO DEMONSTRATE COMPLIANCE WITH THE N.C. 2018 ENERGY CONSERVATION CODES. (SECTION C401.2 (3))



DATE:
MARCH 10, 2022

REVISIONS
DATE:

PROFESSIONAL HOME DESIGN
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 O: (910) 257-5588
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CONTRACTOR INFORMATION

PROJECT LOCATION:
PROJECT NAME:
Edward GAINER

SCALE: 1/4" = 1'-0"
 NOTE: IF THIS DRAWING IS NOT PLOTTED ON 24" x 36", IT HAS BEEN REVERSED FROM ITS ORIGINAL SIZE. SCALE IS NO LONGER APPLICABLE.

SHEET TITLE:
FOUNDATION

SHEET NO.
A-4



STRUCTURAL DESIGN

STANDARD PACKAGE

ENCLOSED BUILDING

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

16 December 2020

Revision 4

M&A Project No. 18076S/18168S/18254S/19174S/19339S

Prepared for:

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

Prepared by:






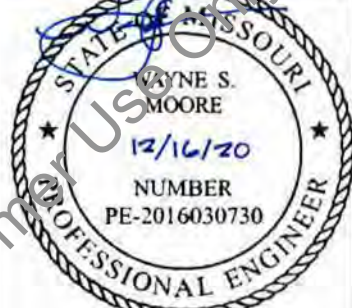












Moore and Associates Engineering and Consulting, Inc.

**1009 East Avenue
North Augusta, SC 29841**

**401 S. Main Street, Suite 200
Mt. Airy, NC 27030**



**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING**

		<p>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.</p>	
			
			
			
			

<p>MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.</p>	<p>DRAWN BY: JG</p>	<p>CARPORT CENTRAL INC. 737 SOUTH MAIN STREET MOUNT AIRY, NC 27030 70'-0"x20'-0" SP ENCLOSED STRUCTURE</p>		
	<p>CHECKED BY: PDH</p>	<p>PROJECT MGR: VSM</p>	<p>DATE: 12-16-20</p>	<p>SCALE: NTS JOB NO: 18168S/18254S/ 19174S/19339S</p>
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			<p>I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the state of Minnesota.</p> <p>Signature: </p> <p>Typed or Printed Name: WAYNE S. MOORE</p> <p>Date: 12/16/20 License Number: 54715</p>
			<p>I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the state of Minnesota.</p> <p>Signature: </p> <p>Typed or Printed Name: WAYNE S. MOORE</p> <p>Date: 12/16/20 License Number: 54715</p>
	<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>6/8/22</u></p>	<p>WAYNE SHERIDAN MOORE</p>	

<p>MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.</p>		<p>DRAWN BY: JG</p>	<p>CARPORT CENTRAL INC. 737 SOUTH MAIN STREET MOUNT AIRY, NC 27030</p>	
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<p>PROJECT MGR: VSM</p>	<p>DATE: 12-16-20</p>	<p>SCALE: NTS</p>	<p>JOB NO: 19174S/19339S</p>	<p>REV: 4</p>
<p>CLIENT: CARPORT CENTRAL</p>	<p>SHT. 1A</p>	<p>DWG. NO: SK-3</p>	<p>REV: 4</p>	

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SHEET 1A	PE SEAL COVER SHEET
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SHEET 4A	TYPICAL SIDE ELEVATION
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SHEET 22	OPTIONAL CONCRETE STRIP FOOTING FOR 50'-0" MAXIMUM WIDTH

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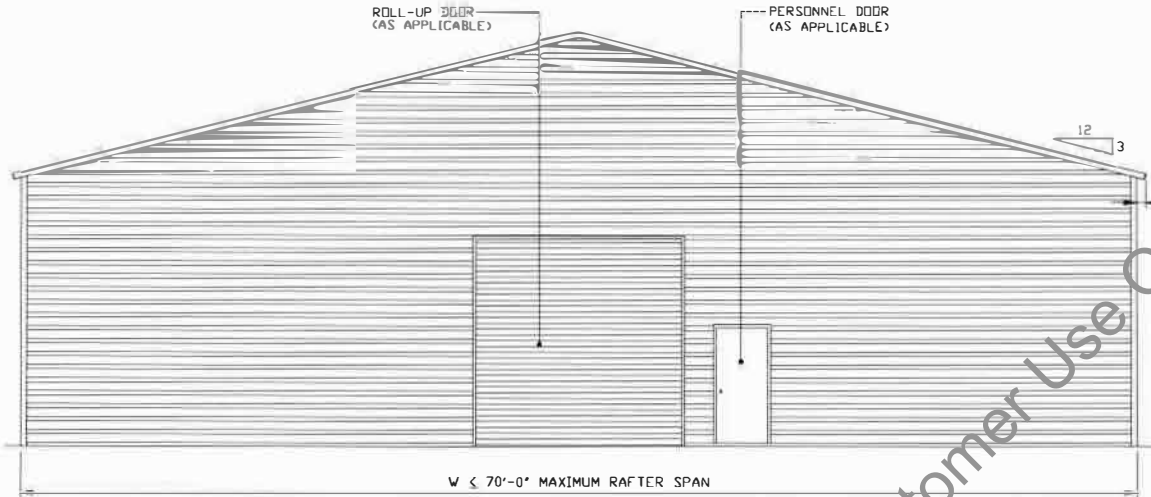
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	CLIENT: CARPORT CENTRAL	SHT. 2	DWG. NO SK-3	REV. 4

INSTALLATION NOTES AND SPECIFICATIONS

- 1 DESIGN IS FOR MAXIMUM 70'-0" WIDE x 20'-0" EAVE HEIGHT STANDARD PACKAGE ENCLOSED STRUCTURES.
- 2 DESIGN WAS DONE IN ACCORDANCE WITH THE 2018 NORTH CAROLINA BUILDING CODE, 2006 INTERNATIONAL BUILDING CODE (IBC), 2009 IBC, 2012 IBC, 2015 IBC AND 2018 IBC
3. DESIGN LOADS ARE AS FOLLOWS:
 - A) DEAD LOAD = 115 PSF
 - B) LIVE LOAD = 20 PSF
 - C) GROUND SNOW LOAD = 45 PSF
(UNBALANCED SNOW LOADS DUE TO DRIFTING HAVE NOT BEEN EVALUATED).
- 4 3-SECOND ULTIMATE WIND SPEED (V_{ULT}) = 115 TO 160 MPH (NOMINAL WIND SPEED = 89 TO 124 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.
- 8 WIND EXPOSURE CATEGORY B/C.
- 9 SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/4"x2 1/4"-14 GAUGE TUBE STEEL (TS) FRAMING MEMBERS (UNLESS NOTED OTHERWISE) WHERE TS 2 1/4" x 2 1/4" - 14 GAUGE IS SPECIFIED, TS 2 1/4" x 2 1/4" - 12 GAUGE MAY BE USED AS AN OPTION.
10. AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR HAT CHANNELS, AND COLUMNS (INTERIOR OR END) = 8" 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 14:12 (3:12 PITCH) OR LESS SPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY VARY. ROOF SLOPES LESS THAN 3:12 MUST BE LAP SEALANT.
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
 - R= 3.25 $I_E = 1.0$
 - $S_{DS} = 2.039 g$ $V = C_s W$
 - $S_{D1} = 1.258 g$
14. MAXIMUM THRESHOLD HEIGHT IS 1/2" FOR PERSONNEL DOORS UTILIZED AS MEANS OF EGRESS

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	CLIENT: CARPORT CENTRAL	SMT. 3	DWG. NO: SK-3	REV: 4
	Edward Gainer Susie Circle Cameron, NC 28326 Edward Gainer Susie Circle			



TYPICAL END ELEVATION

SCALE: NTS

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ENGINEERING AND CONSULTING, INC.**

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CHECKED: B PIH

PROJECT MGR: VSM

CLIENT: CARPORT CENTRAL

**CARPORT CENTRAL INC.
737 SOUTH MAIN STREET
MOUNT AIRY, NC 27030
70'-0"x20'-0" SP ENCLOSED STRUCTURE**

DATE: 12-16-20

SHT. 4

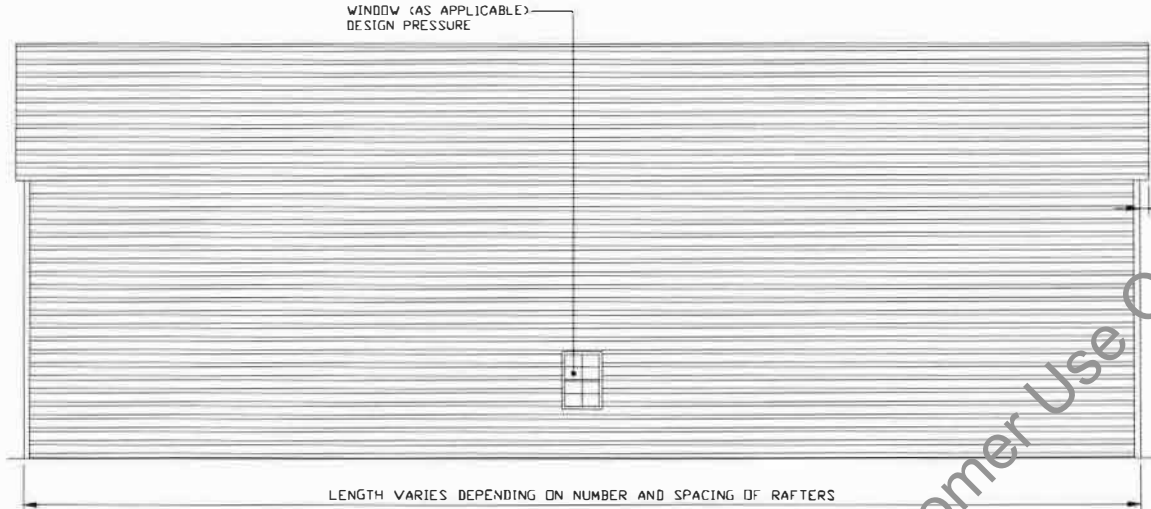
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DWG. NO: SK-3

**18168S/18254S/
JOB NO: 19174S/19339S**

REV: 4

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TYPICAL SIDE ELEVATION

SCALE: NTS

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PROJECT MGR: VSM

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**CARPORT CENTRAL INC.
737 SOUTH MAIN STREET
MOUNT AIRY, NC 27030
70'-0"x20'-0" SP ENCLOSED STRUCTURE**

DATE: 12-16-20

SCALE: NTS

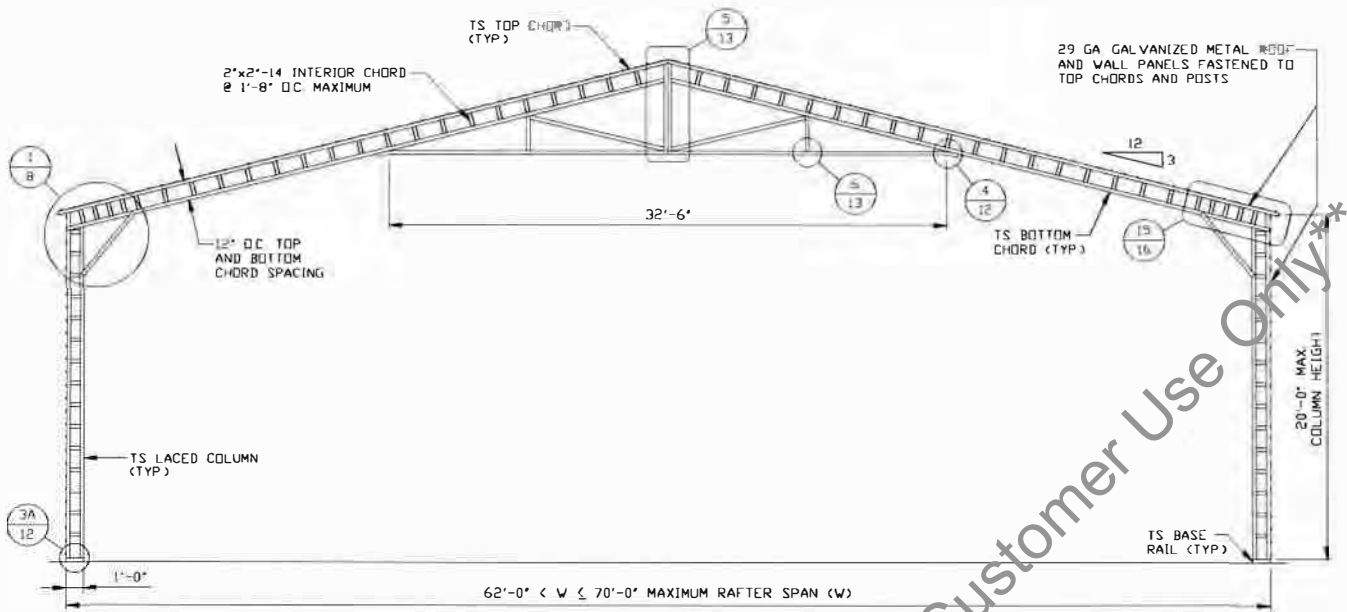
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**18168S/18254S/
JOB NO: 19174S/19339S**

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TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS

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ENGINEERING AND CONSULTING, INC.**

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PROJECT MGR: WSM

CLIENT: CARPORT CENTRAL

CARPORT CENTRAL INC.
737 SOUTH MAIN STREET
MOUNT AIRY, NC 27030
70'-0" x 20'-0" SP ENCLOSED STRUCTURE

DATE: 12-16-20

SHT. 5

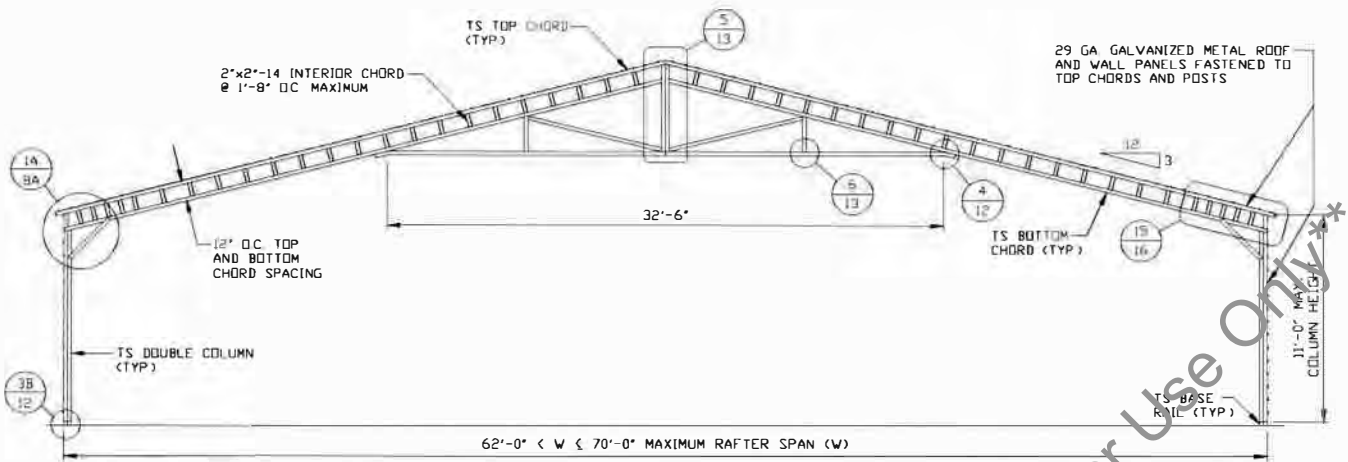
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DWG. NO: SK-3

18168S/18254S/
JOB NO: 19174S/19339S

REV: 4

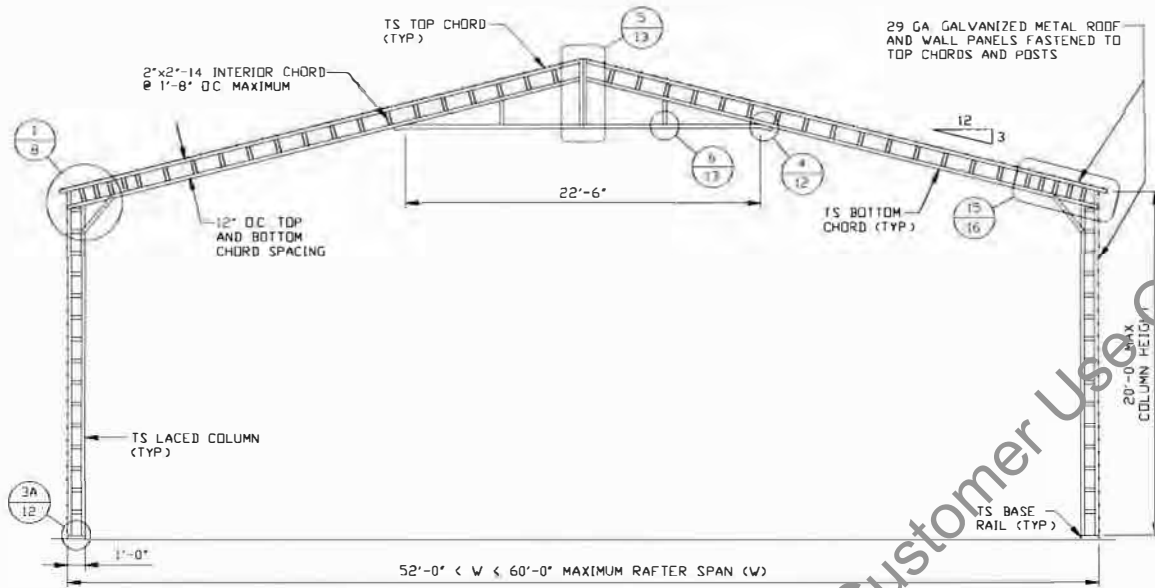
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TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS

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	CLIENT: CARPORT CENTRAL	SHT. 5A	DWG. NO: SK-3	REV. 4
	Edward Gainer Susie Circle Cameron, NC 28326 Edward Gainer Susie Circle			



TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS

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PROJECT MGR: VSM

CLIENT: CARPORT CENTRAL

CARPORT CENTRAL INC.
737 SOUTH MAIN STREET
MOUNT AIRY, NC 27030
70'-0" x 20'-0" SP ENCLOSED STRUCTURE

DATE: 12-16-20

SHT. 6

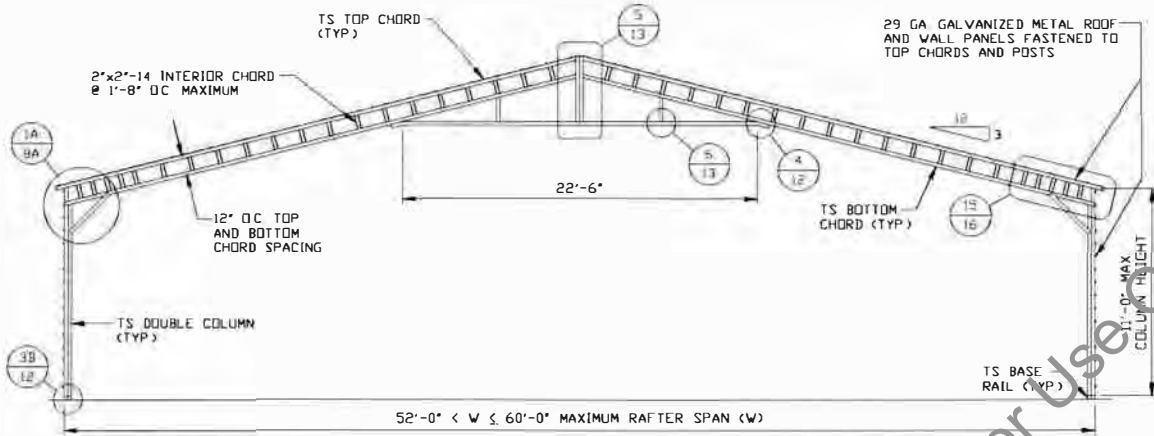
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18168S/18254S/
JOB NO: 19174S/19339S

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TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS

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ENGINEERING AND CONSULTING, INC.**

DRAWN BY: JG

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: CARPORT CENTRAL

CARPORT CENTRAL INC.
737 SOUTH MAIN STREET
MOUNT AIRY, NC 27030
70'-0" x 20'-0" S P ENCLOSED STRUCTURE

DATE: 12-16-20

SHT. 6A

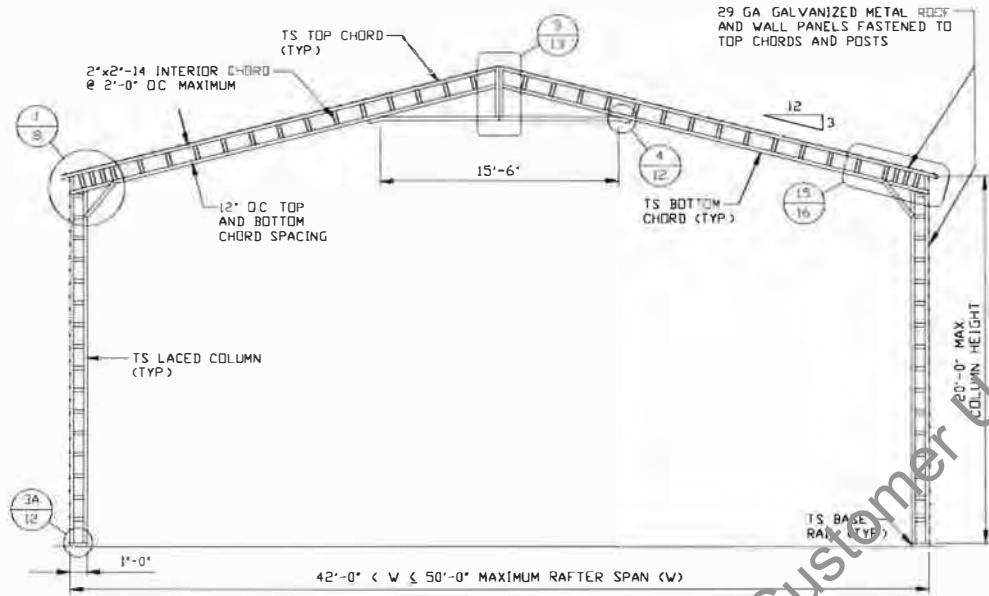
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18168S/18254S/
JOB NO: 19174S/19339S

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TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS

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DRAWN BY: JG

CHECKED BY: PDH

PROJECT MGR: VSM

CLIENT: CARPORT CENTRAL

**CARPORT CENTRAL INC.
737 SOUTH MAIN STREET
MOUNT AIRY, NC 27030**

70'-0"x2,040" SP ENCLOSED STRUCTURE

DATE: 12-16-20

SHT. 7

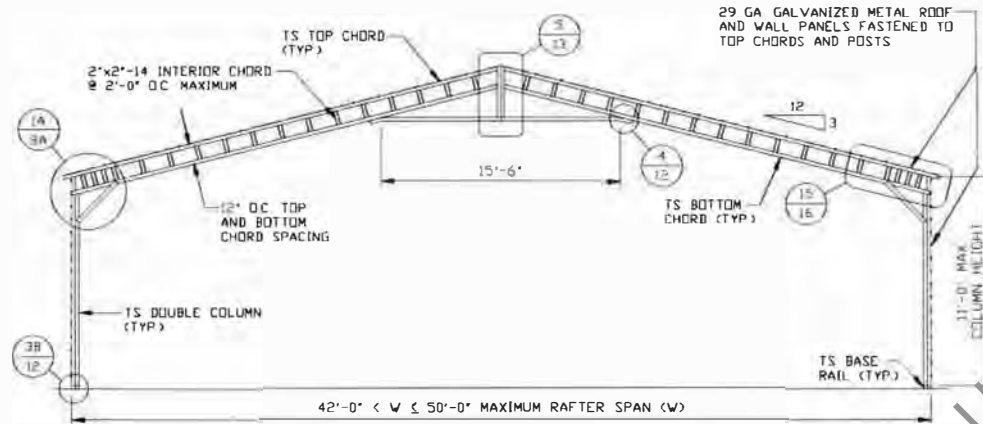
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DWG. NO: SK-3

**18160S/18254S/
JOB NO: 19174S/19339S**

REV: 4

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TYPICAL RAFTER/COLUMN FRAME SECTION

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PROJECT MGR: VSM

CLIENT: CARPORT CENTRAL

**CARPORT CENTRAL INC.
737 SOUTH MAIN STREET
MOUNT AIRY, NC 27030**

70'-0" x 20'-0" SP ENCLOSED STRUCTURE

DATE: 12-16-20

SHT. 7A

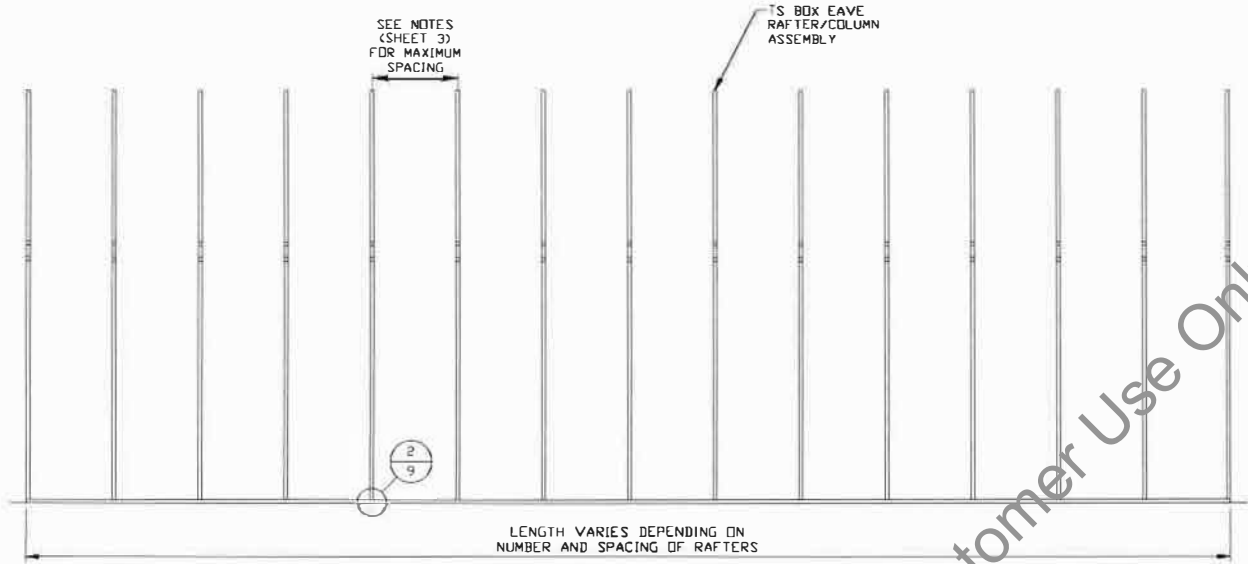
SCALE: NTS

DWG. NO: SK-3

**18168S/18254S/
JOB NO: 19174S/19339S**

REV: 4

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TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS

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**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: JG

CHECKED BY: PDH

**CARPORT CENTRAL INC.
737 SOUTH MAIN STREET
MOUNT AIRY, NC 27030**

70'-0" x 20'-0" SP ENCLOSED STRUCTURE

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PROJECT MGR: WSM

DATE: 12-16-20

SCALE: NTS

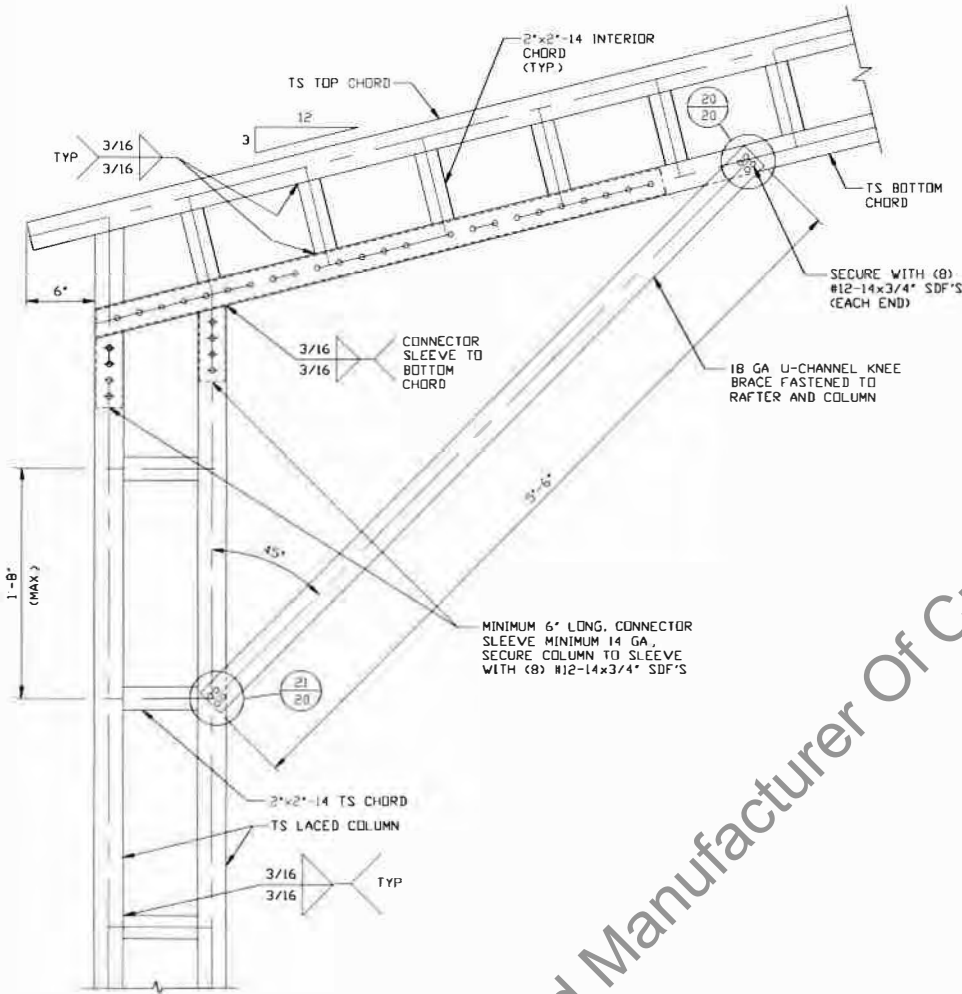
**18168S/18254S/
JOB NO: 19174S/19339S**

CLIENT: CARPORT CENTRAL SHT. 7B

DWG. NO: SK-3

REV: 4

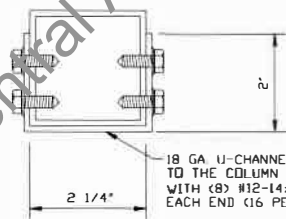
COLUMN CONNECTION DETAILS



BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 11'-0" TO ≤ 20'-0"

1

SCALE: NTS



BRACE SECTION

SCALE: NTS

**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: JG

CHECKED BY: PDH

PROJECT MGR: VSM

CLIENT: CARPORT CENTRAL

**CARPORT CENTRAL INC.
737 SOUTH MAIN STREET
MOUNT AIRY, NC 27030
70'-0"x20'-0" SP ENCLOSED STRUCTURE**

DATE: 12-16-20

SHT. 8

SCALE: NTS

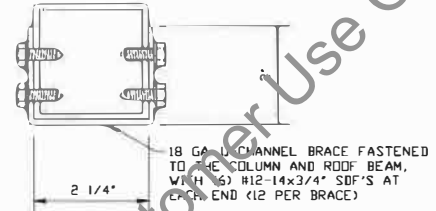
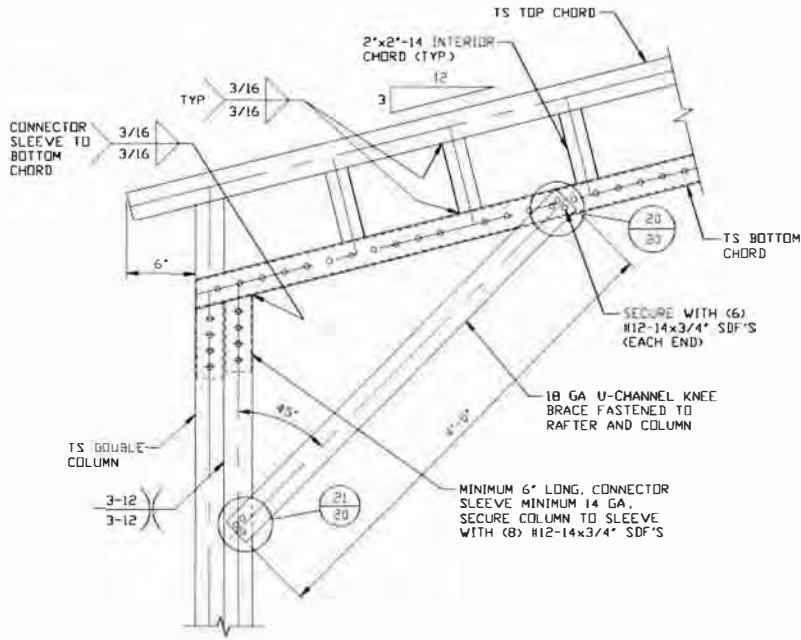
DWG. NO SK-3

**18168S/18254S/
JOB NO: 19174S/19339S**

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COLUMN CONNECTION DETAILS



BRACE SECTION
SCALE: NTS

1A
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS ≤ 11'-0"
SCALE: NTS

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ENGINEERING AND CONSULTING, INC.**

DRAWN BY: JG

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: CARPORT CENTRAL

**CARPORT CENTRAL INC.
737 SOUTH MAIN STREET
MOUNT AIRY, NC 27030
70'-0" x 20'-0" SP ENCLOSED STRUCTURE**

DATE: 12-16-20

SHT. 8A

SCALE: NTS

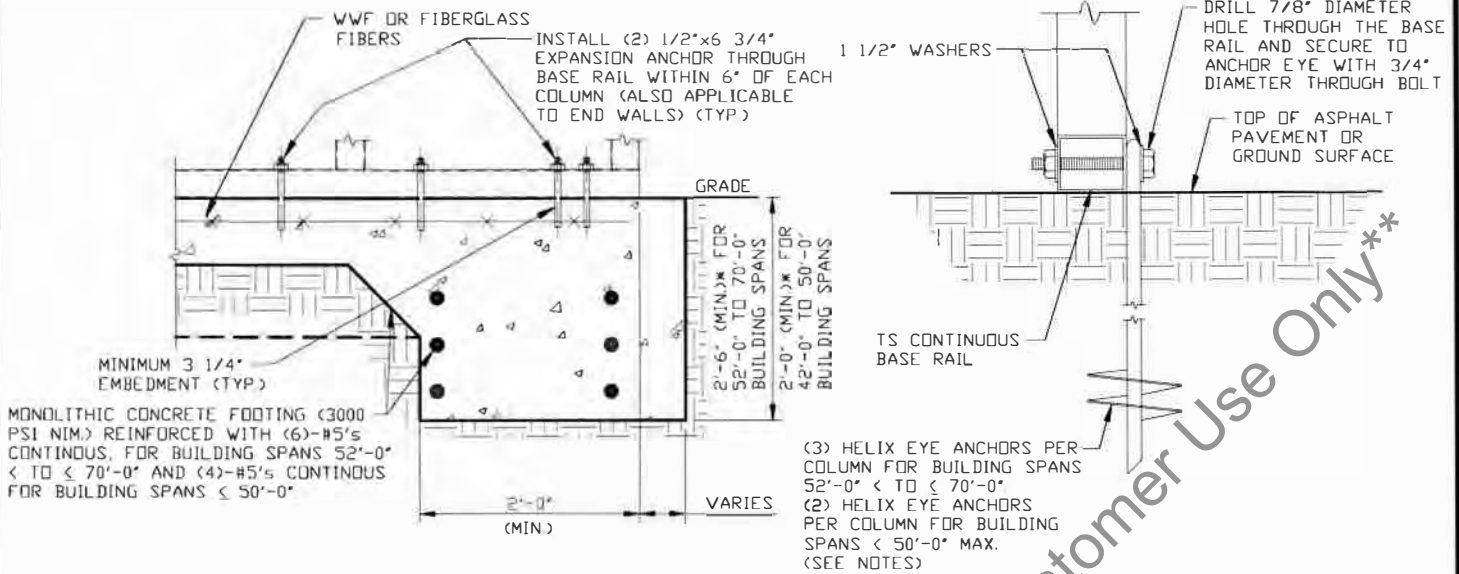
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**18168S/18254S/
JOB NO: 19174S/19339S**

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BASE RAIL ANCHORAGE OPTIONS FOR 160 MPH



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

5 FOR VERY LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER CLAYS AND SILTS, ALLUVIAL FILL, USE MINIMUM (2) 8" HELICES WITH MINIMUM 60" EMBEDMENT.

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

HELIX ANCHOR NOTES:

- 1 FOR VERY DENSE AND/OR CEMENTED SANDS, COARSE GRAVEL AND COBBLES, CALCICHE, 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) 5" HELICES WITH MINIMUM 50" EMBEDMENT.

**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: JG

CHECKED BY: PDH

PROJECT MGR: VSM

CLIENT: CARPORT CENTRAL

CARPORT CENTRAL INC.
737 SOUTH MAIN STREET
MOUNT AIRY, NC 27030
70'-0"x20'-0" SP E. KLO SED STRUCTURE

DATE: 12-16-20

SHT. 9

SCALE: NTS

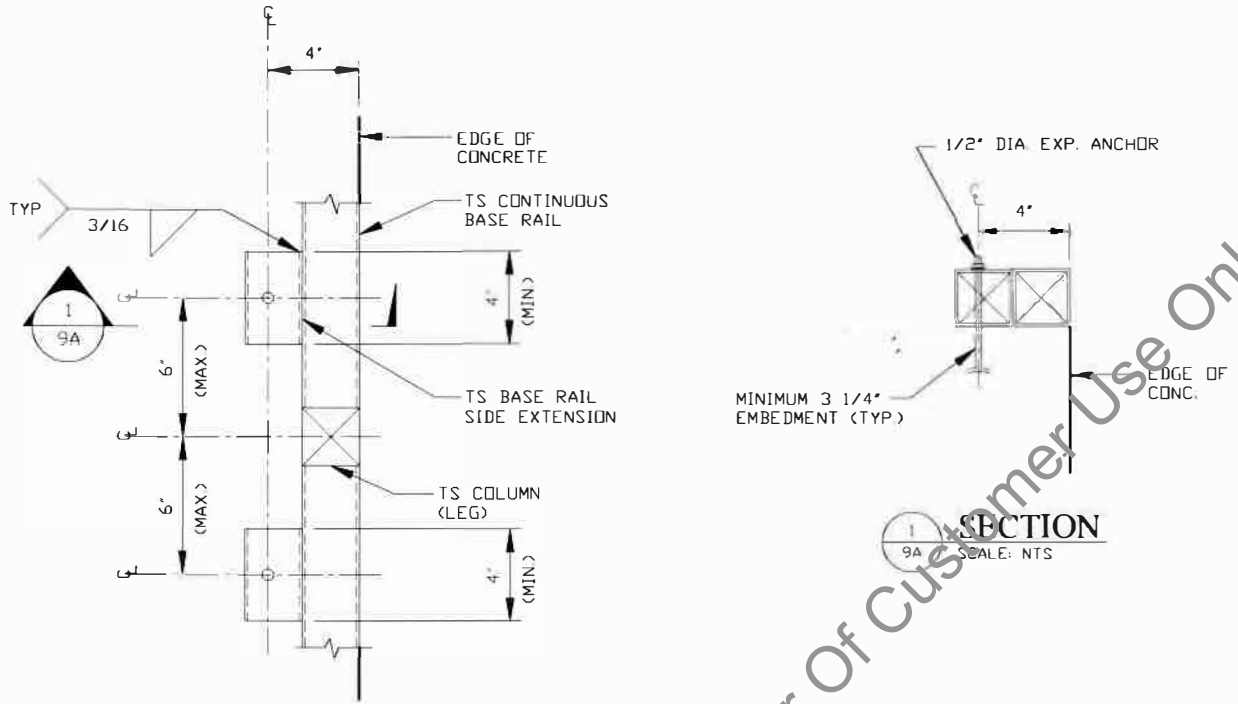
DWG. NO: SK-3

18168S/18254S/
JOB NO: 19174S/19399S

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ADDITIONAL BASE RAIL ANCHORAGE OPTION FOR 160 MPH



TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE

SCALE: NTS

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**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: JG

CHECKED BY: PDH

PROJECT MGR: VSM

CLIENT: CARPORT CENTRAL

**CARPORT CENTRAL INC.
737 SOUTH MAIN STREET
MOUNT AIRY, NC 27030
70'-0"x20'-0" SP ENCLOSED STRUCTURE**

DATE: 12-16-20

SCALE: NTS

DWG. NO: SK-3

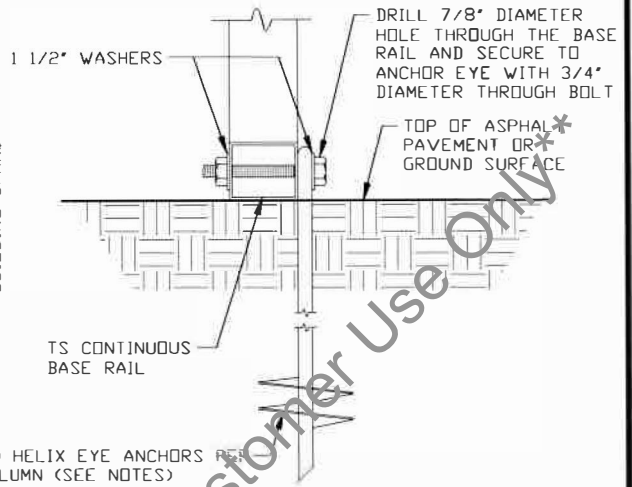
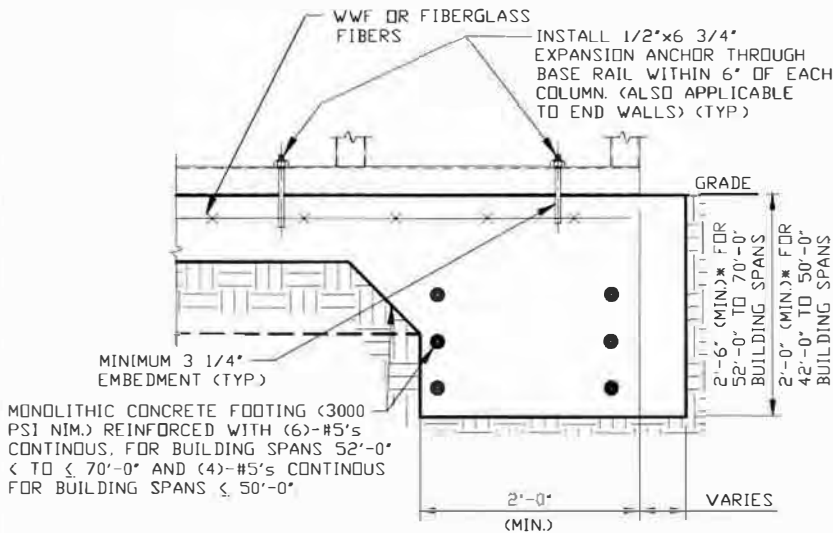
**18168S/18254S/
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SHT. 9A

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BASE RAIL ANCHORAGE OPTIONS FOR 140 MPH



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 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-TWO 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, CALCHE, 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

**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: JG

CHECKED BY: PDH

PROJECT MGR: VSM

CLIENT: CARPORT CENTRAL

CARPORT CENTRAL INC.
737 SOUTH MAIN STREET
MOUNT AIRY, NC 27030
70'-0"x20'-0" SP ENCLOSED STRUCTURE

DATE: 12-16-20

SHT. 9B

SCALE: NTS

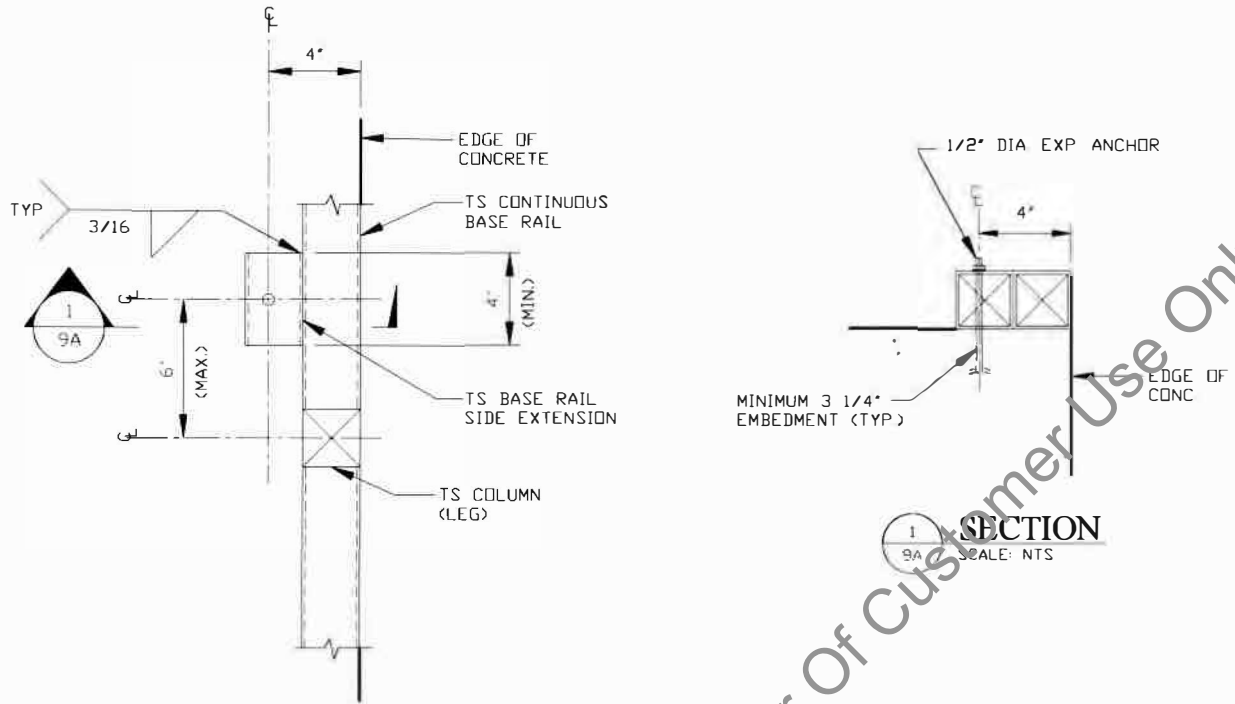
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**18169S/18254S/
JOB NO:** 19174S/19339S

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ADDITIONAL BASE RAIL ANCHORAGE OPTION FOR 140 MPH

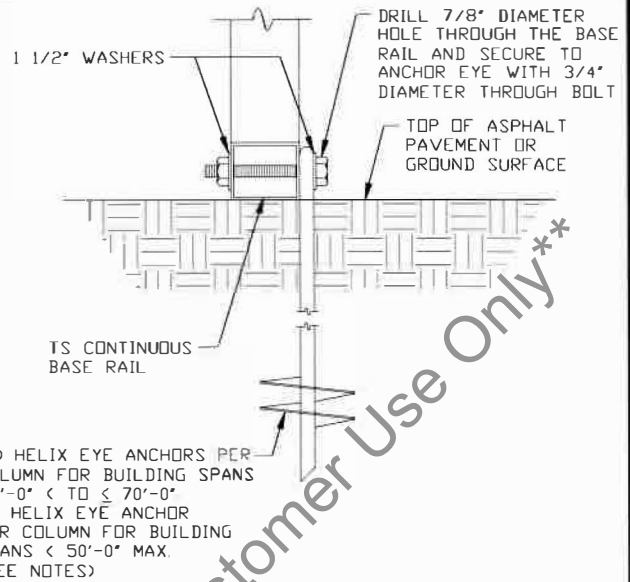
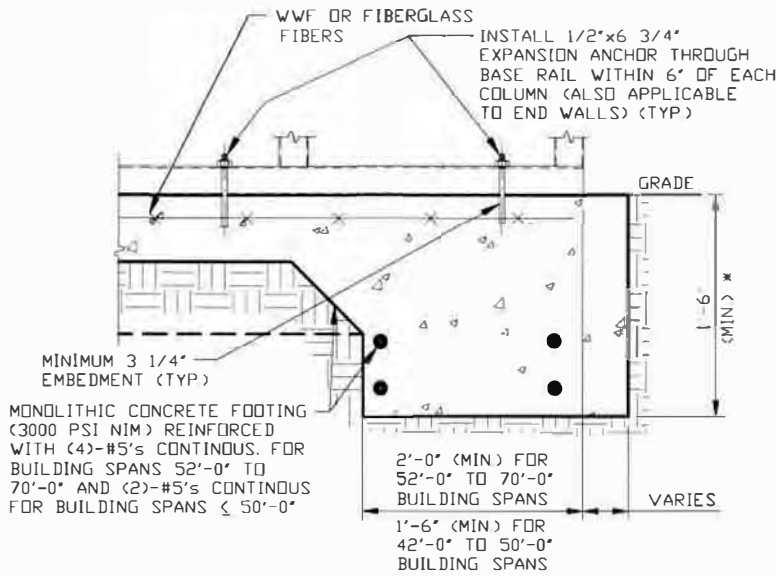


TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE
SCALE: NTS

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	CHECKED BY: PDH	70'-0"x20'-0" SP ENCLOSED STRUCTURE		
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	CLIENT: CARPORT CENTRAL	SHT. 9C	DWG. NO: SK-3	REV. 4

BASE RAIL ANCHORAGE OPTIONS FOR 115 MPH



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

5. FOR VERY LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER CLAYS AND SILTS, ALLUVIAL FILL, USE MINIMUM (2) 8" HELICES WITH MINIMUM 60" EMBEDMENT.

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.

HELIX ANCHOR NOTES:

1. FOR VERY DENSE AND OR CEMENTED SANDS, COARSE GRAVEL AND COBBLES, CALCINE, 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.

**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: JG

CHECKED BY: PDM

PROJECT MGR: VSM

CLIENT: CARPORT CENTRAL

CARPORT CENTRAL INC.
737 SOUTH MAIN STREET
MOUNT AIRY, NC 27030
70'-0"x20'-0" SP ENCLOSED STRUCTURE

DATE: 12-16-20

SHT. 9D

SCALE: NTS

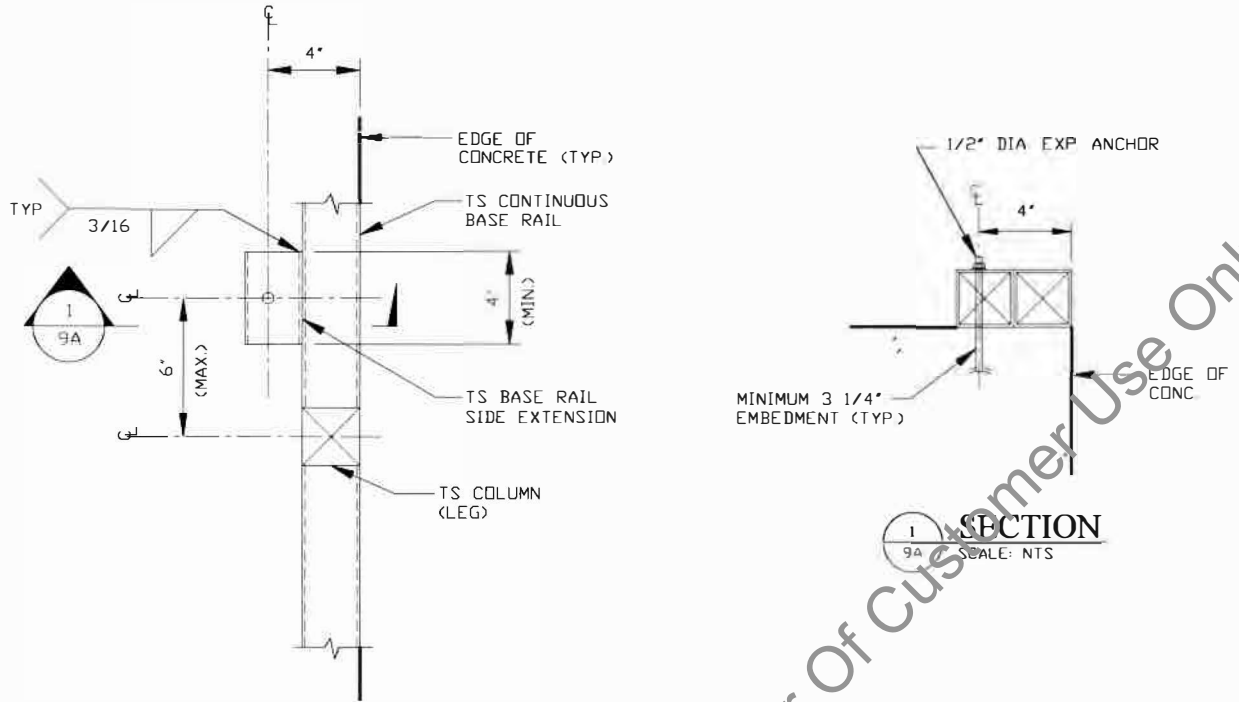
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18168S/18254S/
JOB NO: 19174S/19399S

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ADDITIONAL BASE RAIL ANCHORAGE OPTION FOR 115 MPH



TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE

SCALE: NTS

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ENGINEERING AND CONSULTING, INC.**

DRAWN BY: JG

CHECKED BY: PDH

PROJECT MGR: VSM

CLIENT: CARPORT CENTRAL

**CARPORT CENTRAL INC.
737 SOUTH MAIN STREET
MOUNT AIRY, NC 27030
70'-0"x20'-0" SP ENCLOSED STRUCTURE**

DATE: 12-16-20

SHT. 9E

SCALE: NTS

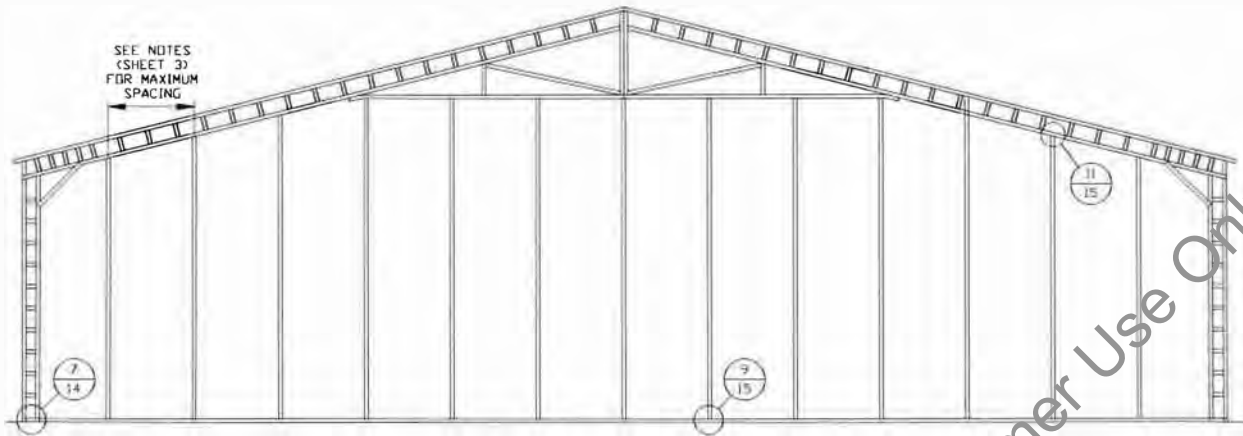
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**18168S/18254S/
JOB NO: 19174S/19339S**

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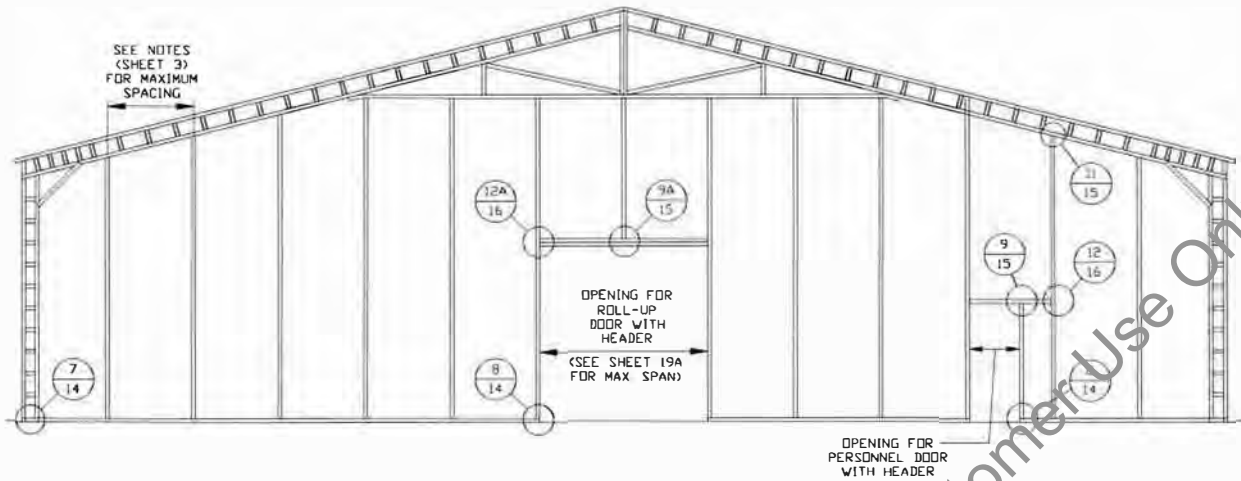
BOX EAVE RAFTER END WALL



TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION
SCALE: NTS

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	CLIENT: CARPORT CENTRAL	SHT. 10	DWG. NO SK-3	REV. 4

BOX EAVE RAFTER END WALL OPENINGS



TYPICAL BOX EAVE RAFTER END WALL OPENING FRAMING SECTION

SCALE: NTS

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PROJECT MGR: VSM

CLIENT: CARPORT CENTRAL

CARPORT CENTRAL INC.
737 SOUTH MAIN STREET
MOUNT AIRY, NC 27030
70'-0" x 20'-0" SP ENCLOSED STRUCTURE

DATE: 12-16-20

SHT. 10A

SCALE: NTS

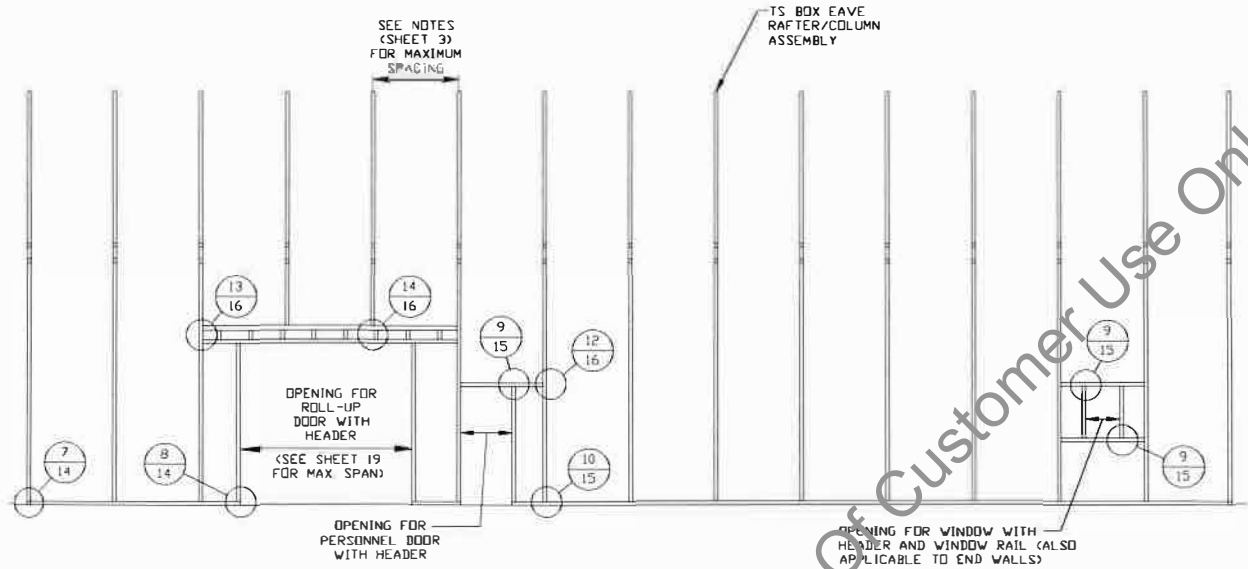
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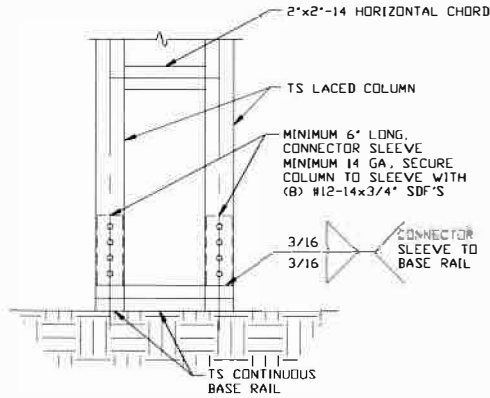
BOX EAVE RAFTER SIDE WALL OPENINGS



TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION
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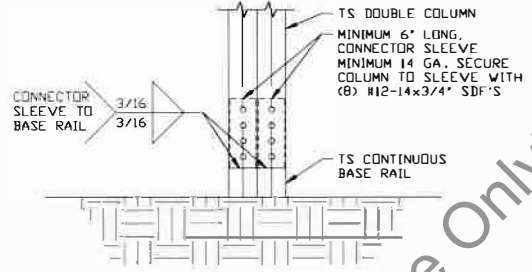
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	CLIENT: CARPORT CENTRAL	SHT. 11	DWG. NO: SK-3	REV: 4
	Edward Gainer Susie Circle	Cameron, NC 28326	Edward Gainer Susie Circle	

CONNECTION DETAILS



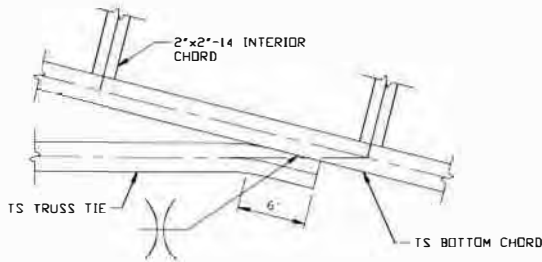
3A RAFTER COLUMN/BASE RAIL CONNECTION DETAIL

SCALE: NTS



3B RAFTER COLUMN/BASE RAIL CONNECTION DETAIL

SCALE: NTS



4 TRUSS TIE CONNECTION DETAIL

SCALE: NTS

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**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: JG

CHECKED BY: PDM

PROJECT MGR: VSM

CLIENT: CARPORT CENTRAL

**CARPORT CENTRAL INC.
737 SOUTH MAIN STREET
MOUNT AIRY, NC 27030
70'-0"X20'-0" SP ENCLOSED STRUCTURE**

DATE: 12-16-20

SCALE: NTS

SHT. 12

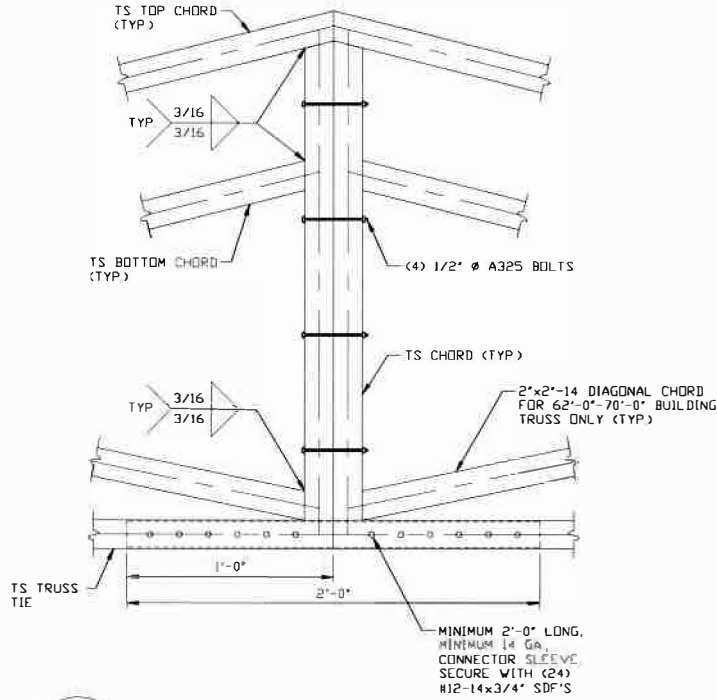
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**18168S/18254S/
JOB NO: 19174S/19339S**

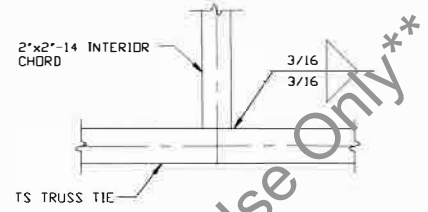
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CONNECTION DETAILS



5 TRUSS SPLICE CONNECTION DETAIL
SCALE: NTS

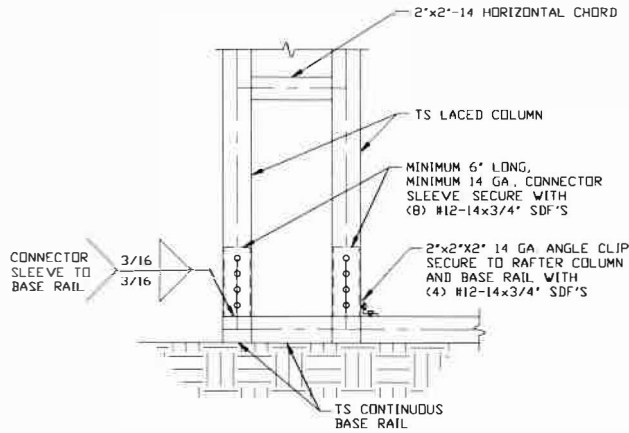


6 TRUSS TIE/INTERIOR CHORD CONNECTION DETAIL
SCALE: NTS

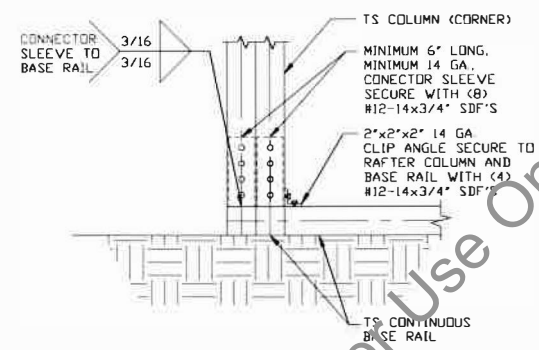
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MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: JG	CARPORT CENTRAL INC. 737 SOUTH MAIN STREET MOUNT AIRY, NC 27030		
	CHECKED BY: PDH	70'-0"x20'-0" SP EN CL @ STRUCTURE		
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	CLIENT: CARPORT CENTRAL	SHT. 13	DWG. NO: SK-3	REV: 4

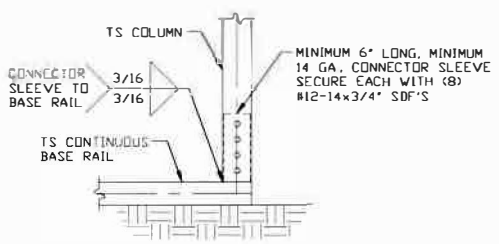
CONNECTION DETAILS



7 END COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



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



8 COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS

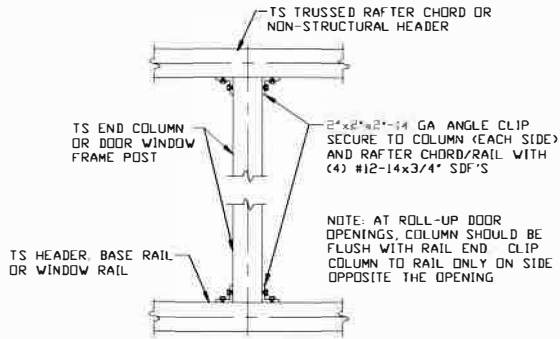
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ENGINEERING AND CONSULTING, INC.**

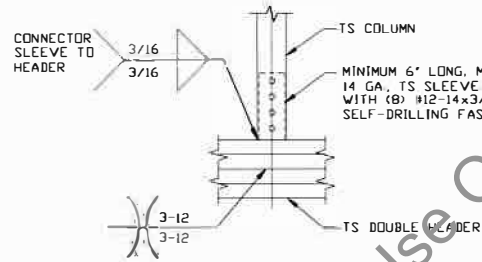
DRAWN BY: JG		CARPORT CENTRAL INC. 737 SOUTH MAIN STREET MOUNT AIRY, NC 27030	
CHECKED BY: PDH		70'-0"x20'-0" SP ENCLOSED STRUCTURE	
PROJECT MGR: VSM	DATE: 12-16-20	SCALE: NTS	JOB NO: 19174S/19339S
CLIENT: CARPORT CENTRAL	SHT. 14	DWG. NO: SK-3	REV: 4

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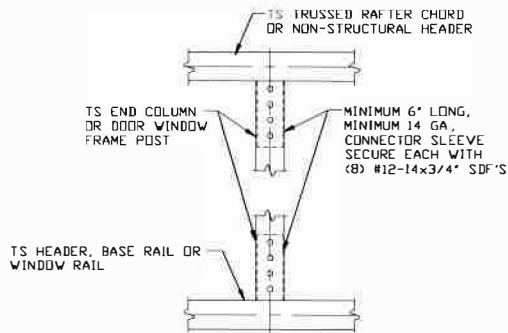
CONNECTION DETAILS



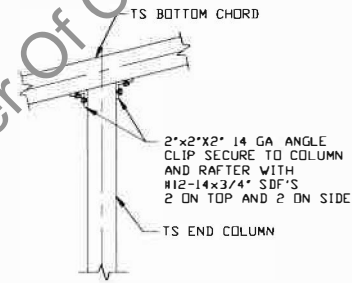
9 COLUMN TO WINDOW RAIL CONNECTION DETAIL
SCALE: NTS



9A COLUMN TO HEADER OR BASE 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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**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: JG

CHECKED BY: PDH

PROJECT MGR: VSM

CLIENT: CARPORT CENTRAL

**CARPORT CENTRAL INC.
737 SOUTH MAIN STREET
MOUNT AIRY, NC 27030
70'-0" x 20'-0" SP ENCLOSED STRUCTURE**

DATE: 12-16-20

SHT. 15

SCALE: NTS

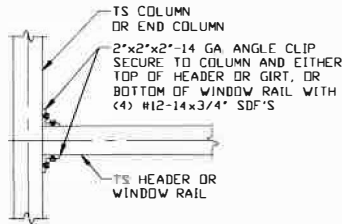
DWG. NO: SK-3

**18168S/18254S/
JOB NO: 19174S/19339S**

REV: 4

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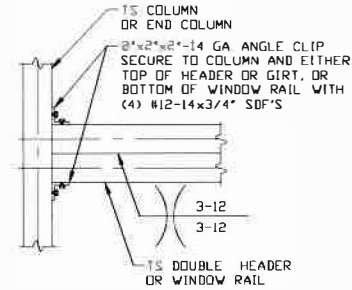
CONNECTION DETAILS



12

COLUMN OR WINDOW RAIL TO POST CONNECTION DETAIL

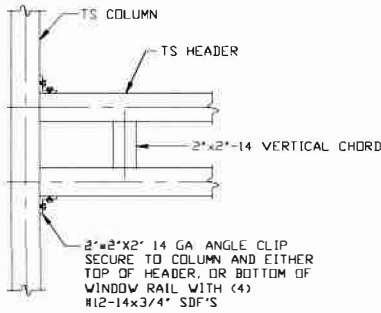
SCALE: NTS



12A

COLUMN OR WINDOW RAIL TO POST CONNECTION DETAIL

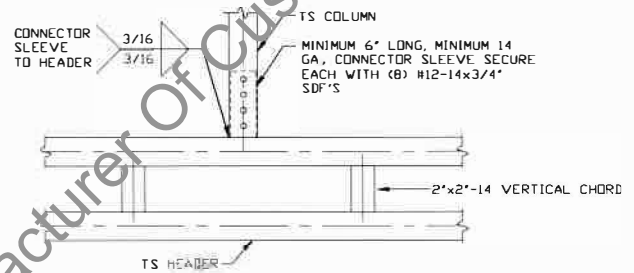
SCALE: NTS



13

HEADER TO COLUMN CONNECTION DETAIL

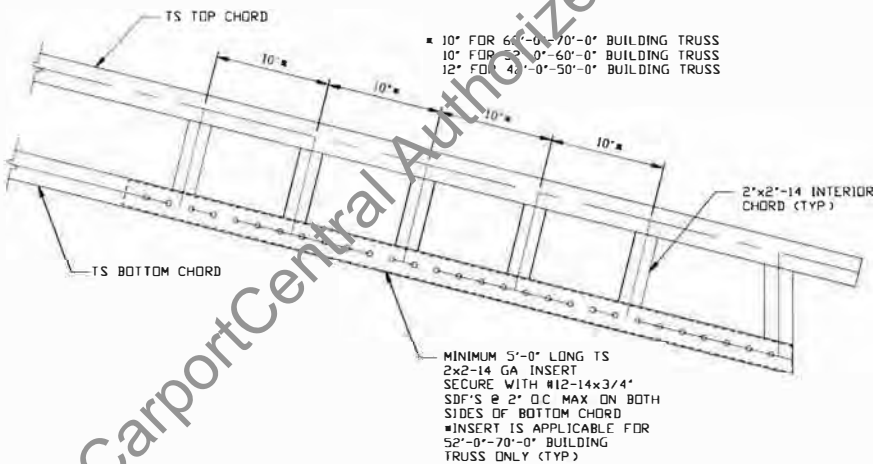
SCALE: NTS



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.

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CLIENT: CARPORT CENTRAL

CARPORT CENTRAL INC.
737 SOUTH MAIN STREET
MOUNT AIRY, NC 27030
70'-0"x20'-0" SP ENCLOSED STRUCTURE

DATE: 12-16-20

SCALE: NTS

DWG. NO: SK-3

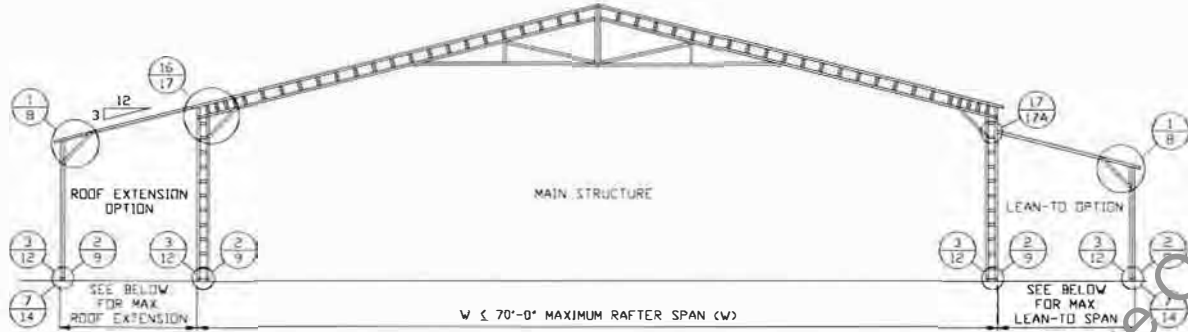
18168S/18254S/
JOB NO: 19174S/19339S

REV: 4

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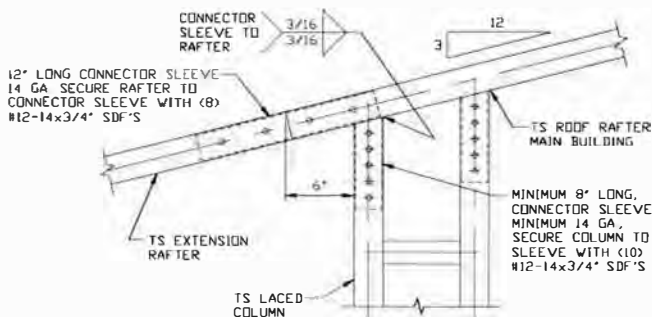
BOX EAVE RAFTER LEAN-TO OPTIONS

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)

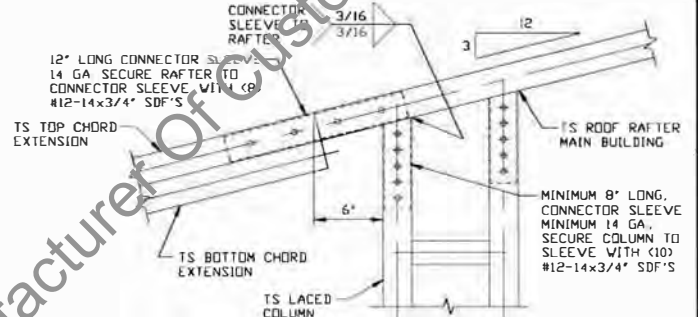
SCALE: NTS



16A

**SIDE EXTENSION RAFTER/COLUMN
DETAIL FOR SPANS ≤ 8'-0"**

SCALE: NTS



16B

**SIDE EXTENSION RAFTER/COLUMN
DETAIL FOR SPANS 8'-0" < TO ≤ 14'-0"**

SCALE: NTS

**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: JG

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: CARPORT CENTRAL SHT. 17

CARPORT CENTRAL INC.
737 SOUTH MAIN STREET
MOUNT AIRY, NC 27030
70'-0"x20'-0" SP ENCLOSED STRUCTURE

DATE: 12-16-20

SCALE: NTS

DWG. NO: SK-3

18168S/18254S/
JOB NO: 19174S/19339S

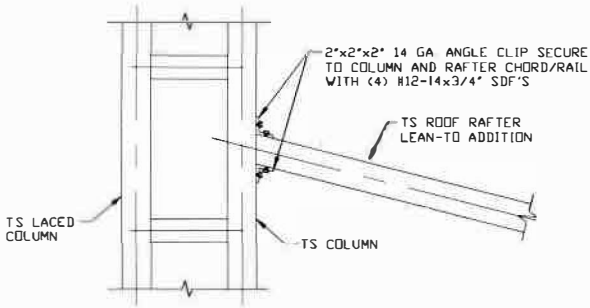
REV: 4

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BOX EAVE RAFTER LEAN-TO OPTIONS

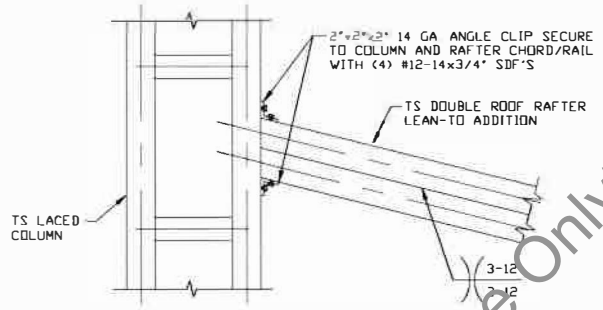
NOTE: 62'-0"-70'-0" BUILDING TRUSS SHOWN
ACTUAL TRUSS VARIES WITH MAIN STRUCTURE WIDTH



**LEAN-TO RAFTER TO
RAFTER COLUMN
CONNECTION DETAIL
FOR SPANS \leq 8'-0"**

17A

SCALE: NTS



**LEAN-TO RAFTER TO
RAFTER COLUMN
CONNECTION DETAIL FOR
SPANS 8'-0" < TO \leq 14'-0"**

17B

SCALE: NTS

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DRAWN BY: JG

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PROJECT MGR: WSM

CLIENT: CARPORT CENTRAL

CARPORT CENTRAL INC.
737 SOUTH MAIN STREET
MOUNT AIRY, NC 27030
70'-0"x20'-0" SP ENCLOSED STRUCTURE

DATE: 12-16-20

SHT. 17A

SCALE: NTS

DWG. NO: SK-3

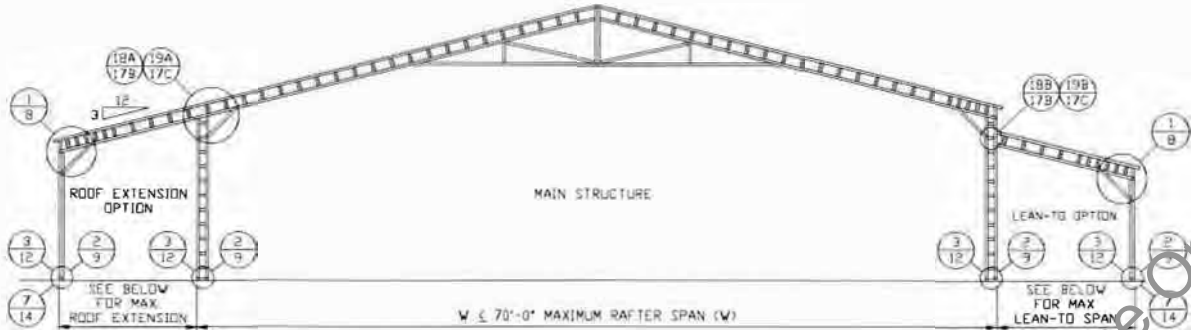
18168S/18254S/
JOB NO: 19174S/19339S

REV: 4

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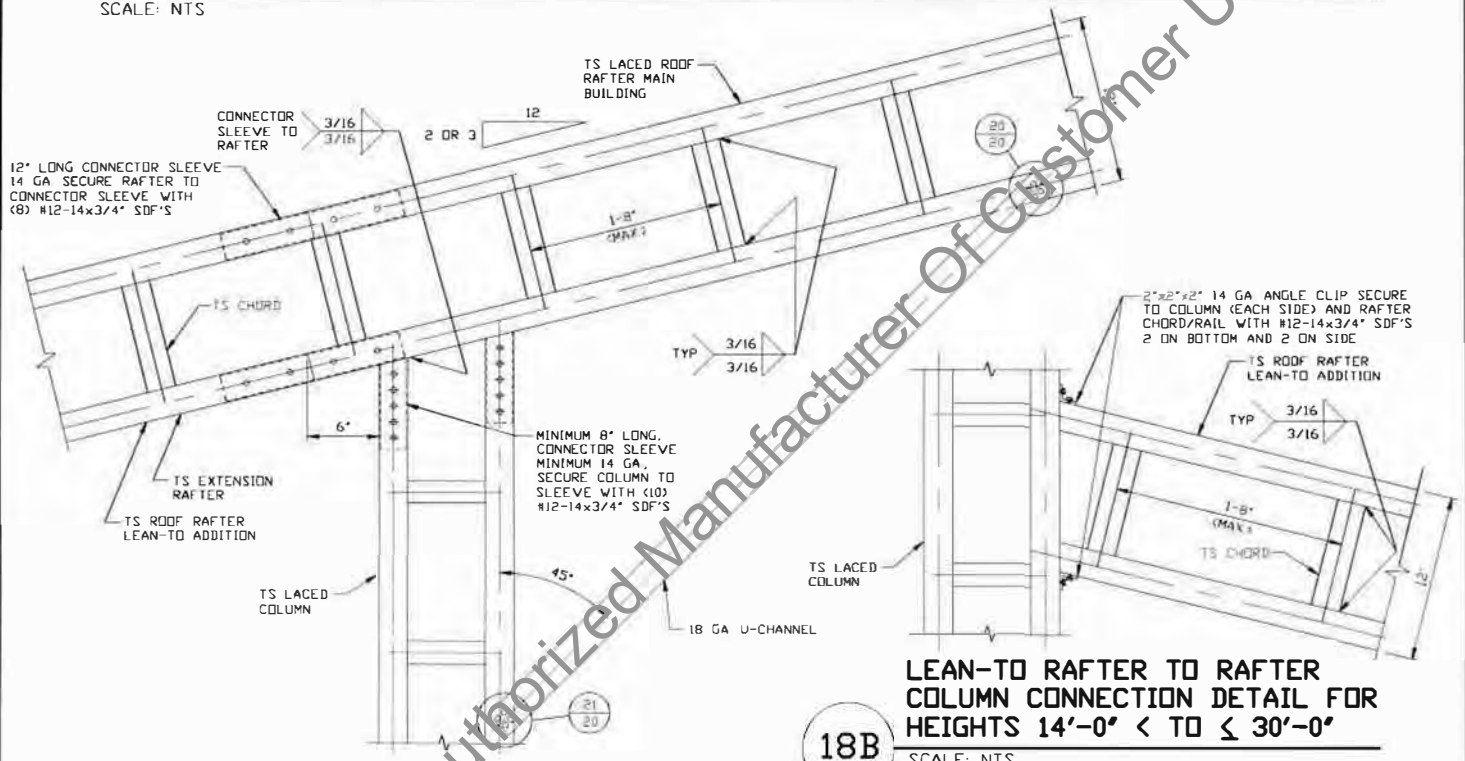
BOX EAVE RAFTER LEAN-TO OPTIONS

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



18A SIDE EXTENSION RAFTER/COLUMN DETAIL FOR HEIGHTS 14'-0" < TO ≤ 30'-0"
SCALE: NTS

18B LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 14'-0" < TO ≤ 30'-0"
SCALE: NTS

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CARPORT CENTRAL INC.
737 SOUTH MAIN STREET
MOUNT AIRY, NC 27030
70'-0"x20'-0" SP ENCLOSED STRUCTURE

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PROJECT MGR: VSM
CLIENT: CARPORT CENTRAL

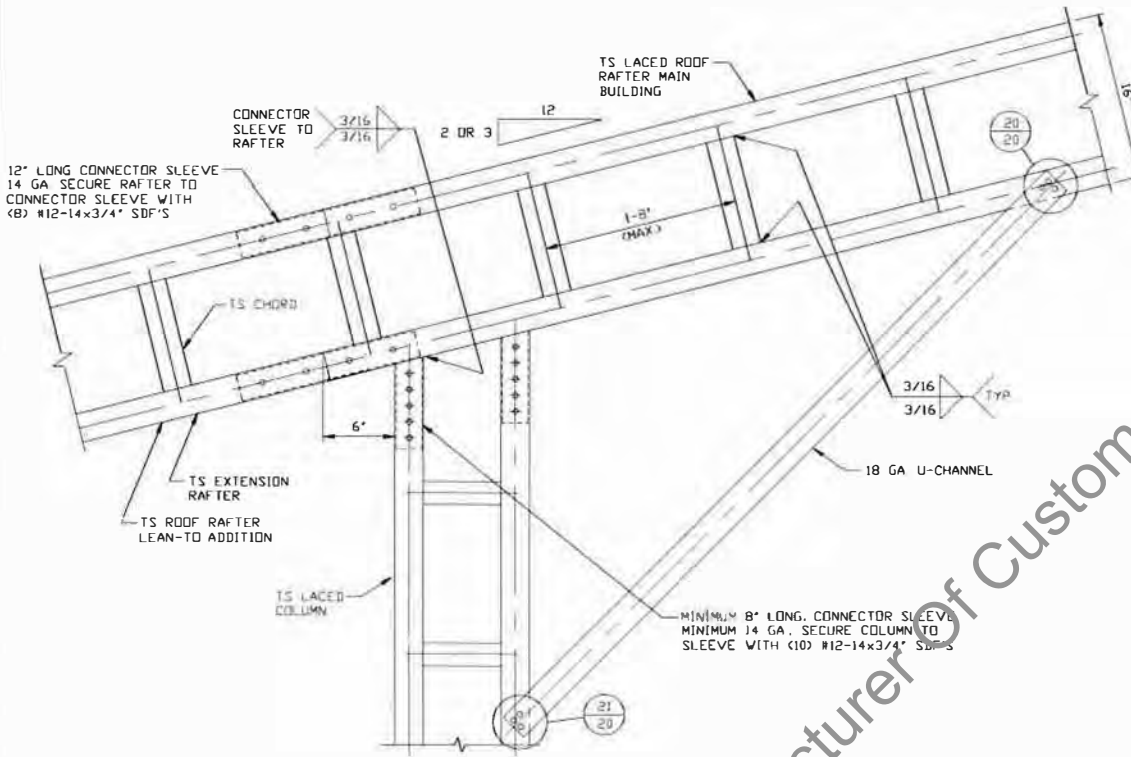
DATE: 12-16-20
SHT. 17B

SCALE: NTS
DWG. NO: SK-3

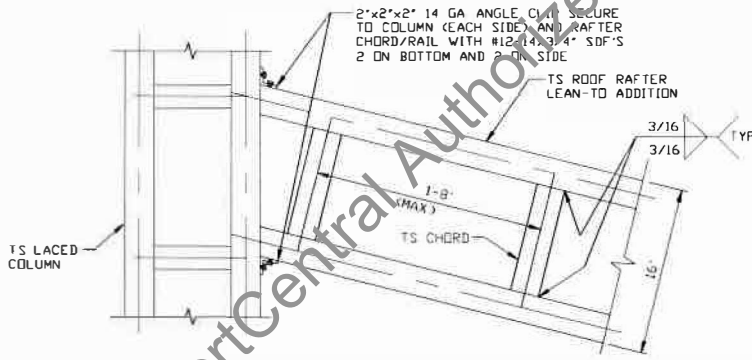
JOB NO: 19174S/19339S
REV: 4

BOX EAVE RAFTER LEAN-TO OPTIONS

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



19A SIDE EXTENSION
RAFTER/COLUMN DETAIL FOR
HEIGHTS 30'-0" < TO ≤ 35'-0"
SCALE: NTS



19B LEAN-TO RAFTER TO RAFTER
COLUMN CONNECTION DETAIL FOR
HEIGHTS 30'-0" < TO ≤ 35'-0"
SCALE: NTS

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DRAWN BY: JG

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PROJECT MGR: WSM

CLIENT: CARPORT CENTRAL

CARPORT CENTRAL INC.
737 SOUTH MAIN STREET
MOUNT AIRY, NC 27030
70'-0"x20'-0" SP ENCLOSED STRUCTURE

DATE: 12-16-20

SHT. 17C

SCALE: NTS

DWG. NO: SK-3

18168S/18254S/
JOB NO: 19174S/19339S

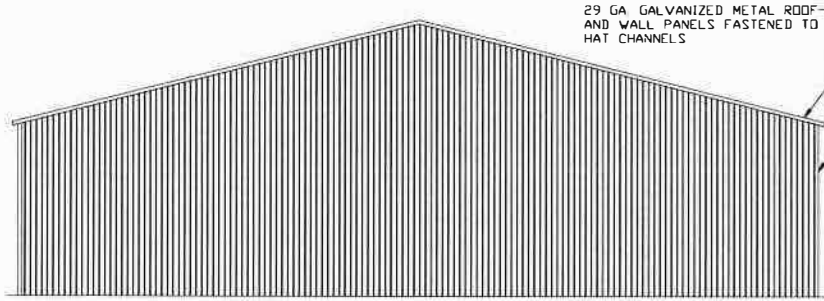
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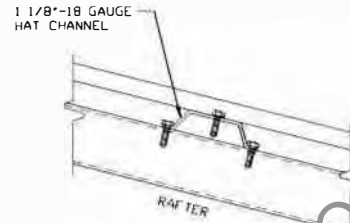
BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION

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



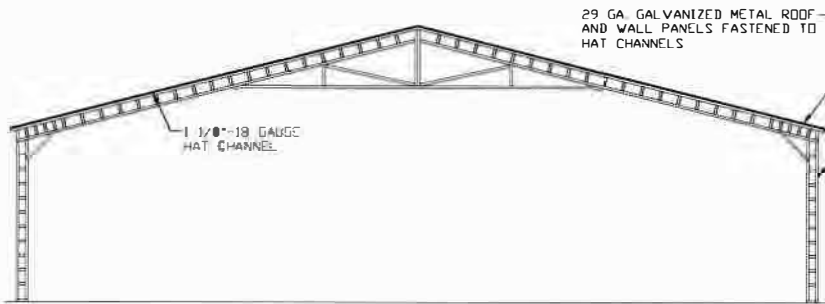
TYPICAL END ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS



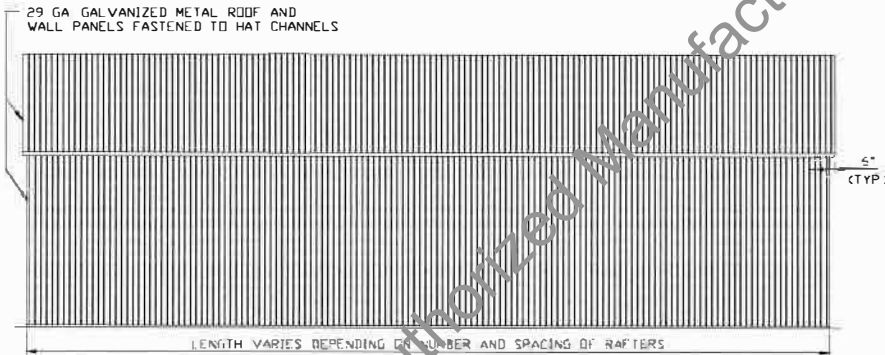
PANEL ATTACHMENT

(ALTERNATE FOR VERTICAL ROOF PANELS)
SCALE: NTS



TYPICAL SECTION VERTICAL ROOF/SIDING OPTION

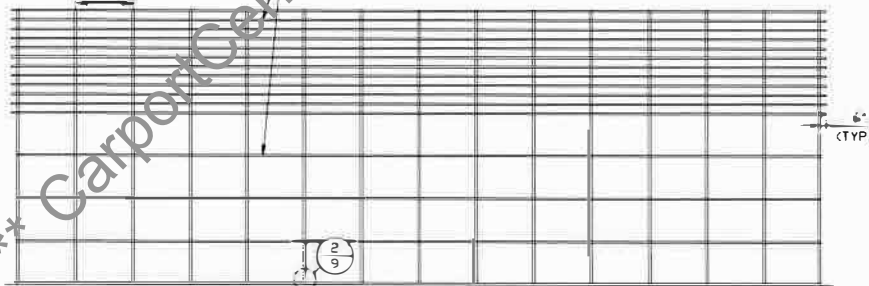
SCALE: NTS



TYPICAL SIDE ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS

SEE NOTES (SHEET 3) FOR MAXIMUM SPACING
1 1/8" 18 GAUGE HAT CHANNEL SPACED AT 3'-6" (MAX) OC AND FASTENED TO EACH RAFTER WITH (2) #12-14x3/4" SDF'S



TYPICAL FRAMING SECTION VERTICAL ROOF/SIDING OPTION

SCALE: NTS

**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: JG

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: CARPORT CENTRAL

CARPORT CENTRAL INC.
737 SOUTH MAIN STREET
MOUNT AIRY, NC 27030
70'-0"x20'-0" SP ENCLOSED STRUCTURE

DATE: 12-16-20

SHT. 18

SCALE: NTS

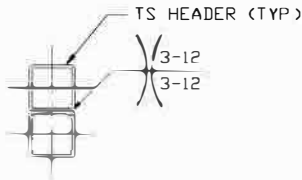
DWG. NO: SK-3

18168S/18234S/
JOB NO: 19174S/19339S

REV: 4

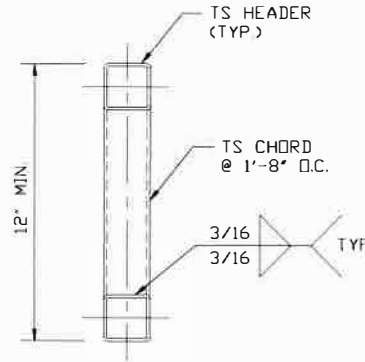
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SIDE WALL HEADER OPTIONS



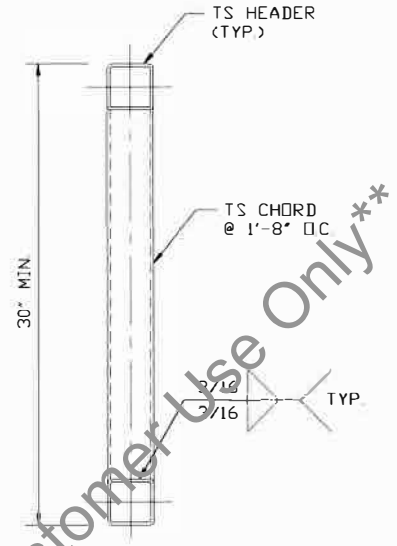
**HEADER DETAIL FOR SPANS
≤ 5'-0"**

SCALE: NTS



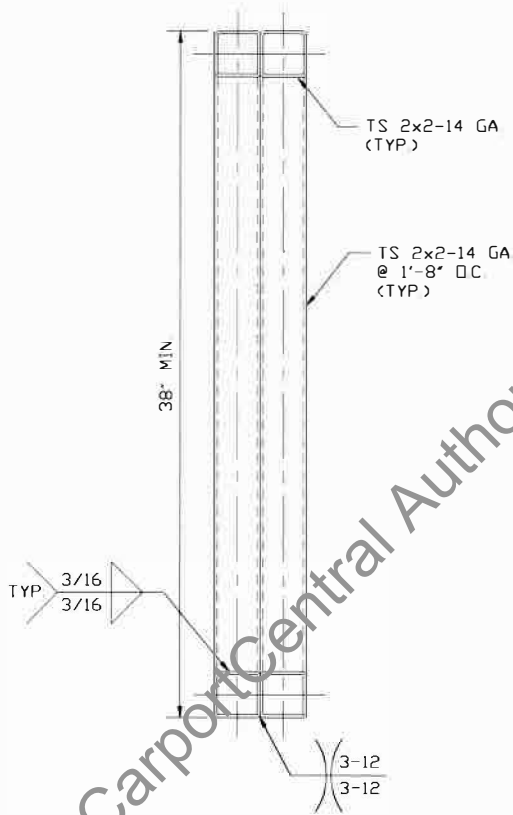
**HEADER DETAIL FOR SPANS
5'-0" < TO ≤ 10'-0"**

SCALE: NTS



**HEADER DETAIL FOR SPANS
10'-0" < TO ≤ 18'-0"**

SCALE: NTS



**** HEADER DETAIL FOR
SPANS 18'-0" < TO ≤ 30'-0"**

SCALE: NTS

**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: JG

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: CARPORT CENTRAL
SHT. 19

CARPORT CENTRAL INC.
737 SOUTH MAIN STREET
MOUNT AIRY, NC 27030
70'-0" x 20' SP ENCL ISO STRUCTURE

DATE: 12-16-20

SCALE: NTS

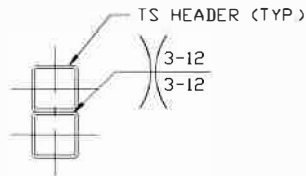
DWG. NO: SK-3

18168S/18254S/
JOB NO: 19174S/19339S

REV: 4

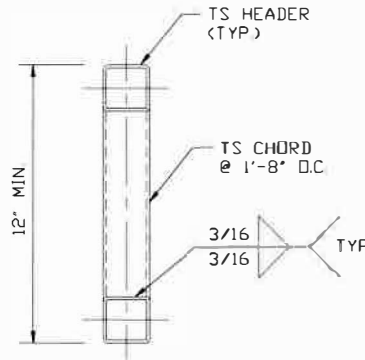
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END WALL HEADER OPTIONS



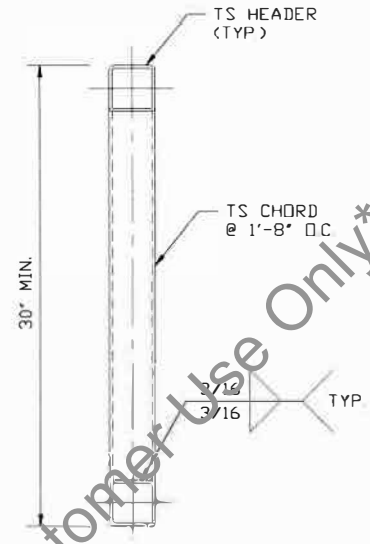
**HEADER DETAIL FOR SPANS
 $\leq 10'-0''$**

SCALE: NTS



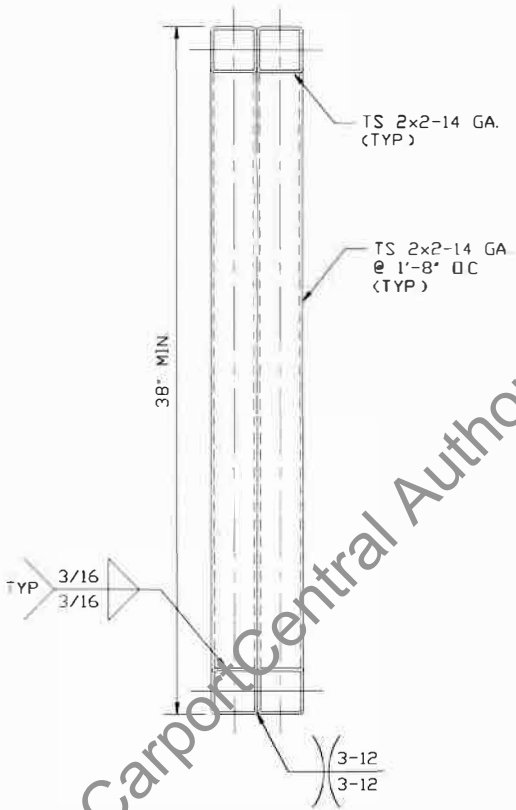
**HEADER DETAIL FOR SPANS
 $10'-0'' < TO \leq 18'-0''$**

SCALE: NTS



**HEADER DETAIL FOR SPANS
 $18'-0'' < TO \leq 20'-0''$**

SCALE: NTS



**** HEADER DETAIL FOR
SPANS $20'-0'' < TO \leq 30'-0''$**

SCALE: NTS

**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: JG

CHECKED BY: PJM

PROJECT MGR: WSM

CLIENT: CARPORT CENTRAL

CARPORT CENTRAL INC.
737 SOUTH MAIN STREET
MOUNT AIRY, NC 27030
70'-0" x 20'-0" SP ENCLOSED STRUCTURE

DATE: 12-16-20

SHT. 19A

SCALE: NTS

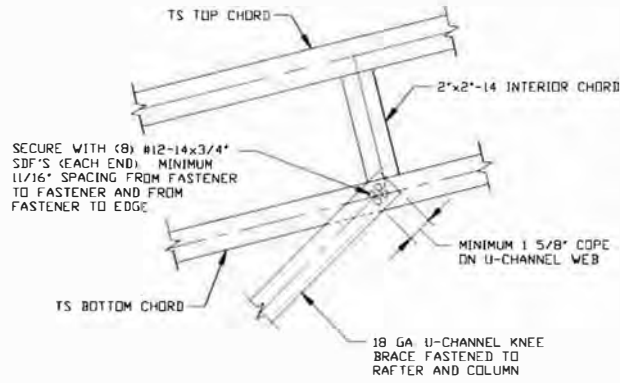
DWG. NO: SK-3

18168S/18254S/
JOB NO: 19174S/19339S

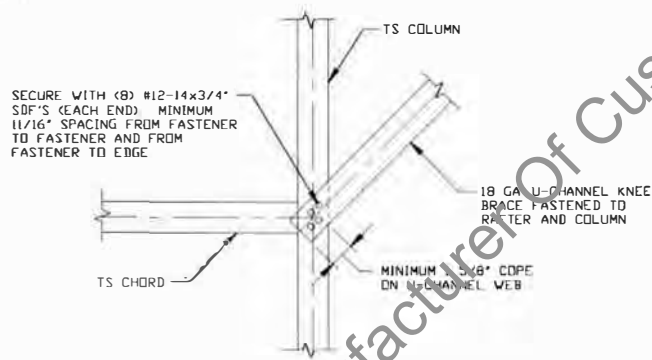
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U-CHANNEL CONNECTION DETAILS



20 U-CHANNEL TO RAFTER CONNECTION DETAIL
SCALE: NTS



21 U-CHANNEL TO COLUMN CONNECTION DETAIL
SCALE: NTS

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**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: JG
CHECKED BY: PDH

CARPOT CENTRAL INC.
737 SOUTH MAIN STREET
MOUNT AIRY, NC 27030
70'-0"x20'-0" SP ENCLOSED STRUCTURE

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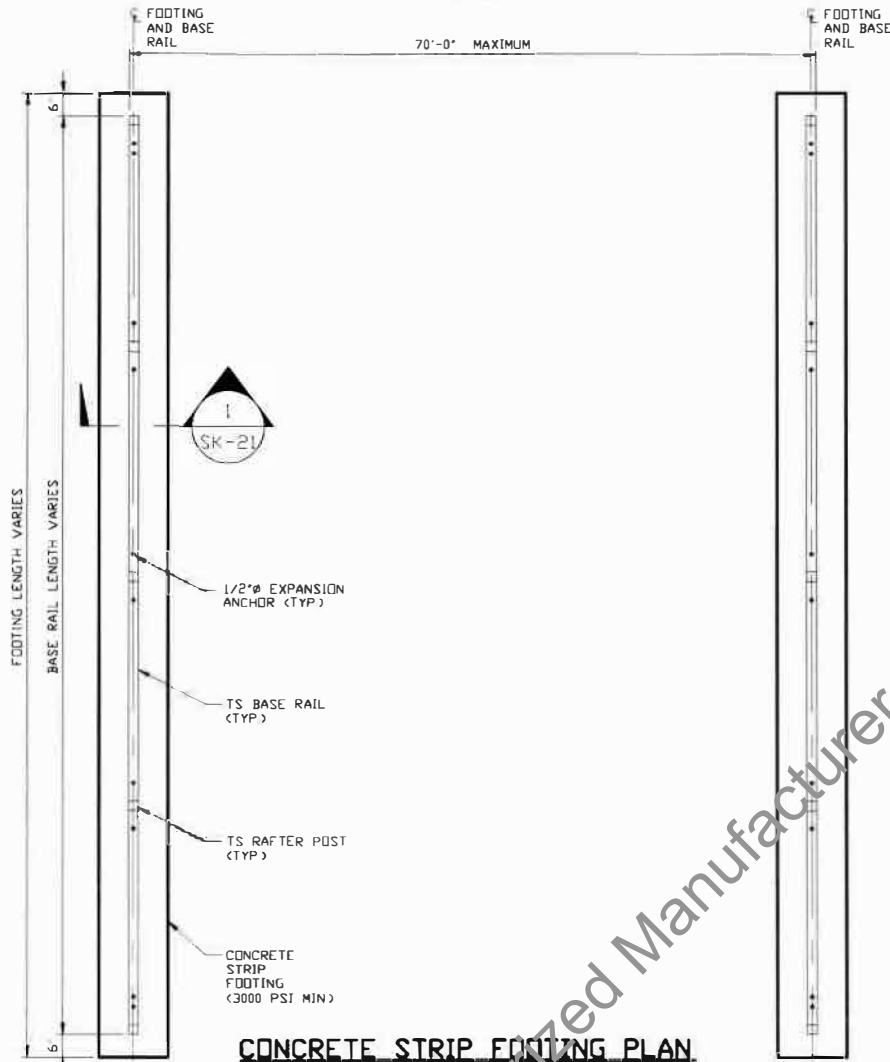
PROJECT MGR: VSM
CLIENT: CARPORT CENTRAL

DATE: 12-16-20
SHT. 20

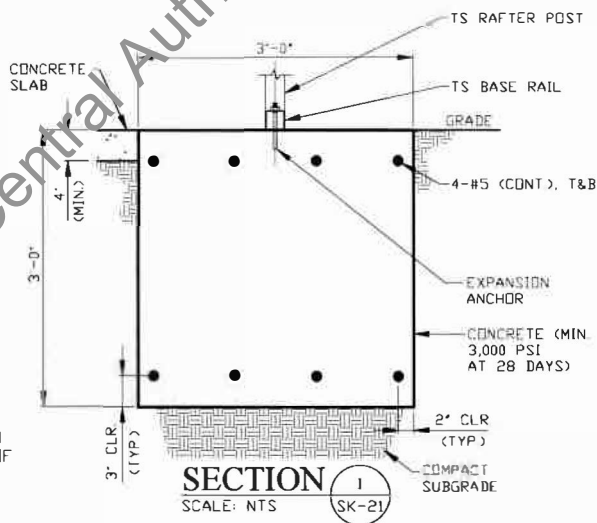
SCALE: NTS
DWG. NO: SK-3

**18168S/18254S/
JOB NO: 19174S/19339S**
REV: 4

OPTIONAL CONCRETE STRIP FOOTING FOR 70'-0" MAXIMUM WIDTH



CONCRETE STRIP FOOTING PLAN
SCALE: NTS



- NOTES:
1. COORDINATE WITH LOCAL CODES/ORD
 2. CONCRETE STRIP FOOTING DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 1,500 PSF
 3. MINIMUM ANCHOR EDGE DISTANCE IS 4"

SECTION 1
SCALE: NTS

**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: JG

CHECKED BY: PDH

CARPOT CENTRAL INC.
737 SOUTH MAIN STREET
MOUNT AIRY, NC 27030
70'-0"x20'-0" SP ENCLOSED STRUCTURE

PROJECT MGR: VSM

DATE: 12-16-20

SCALE: NTS

**JOB NO: 18160S/18254S/
19174S/19339S**

CLIENT: CARPORT CENTRAL

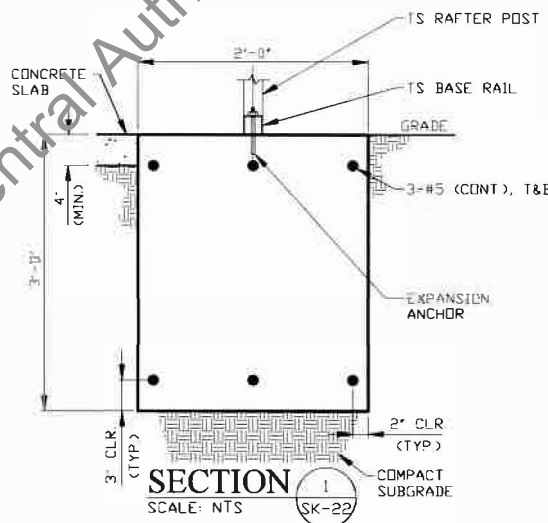
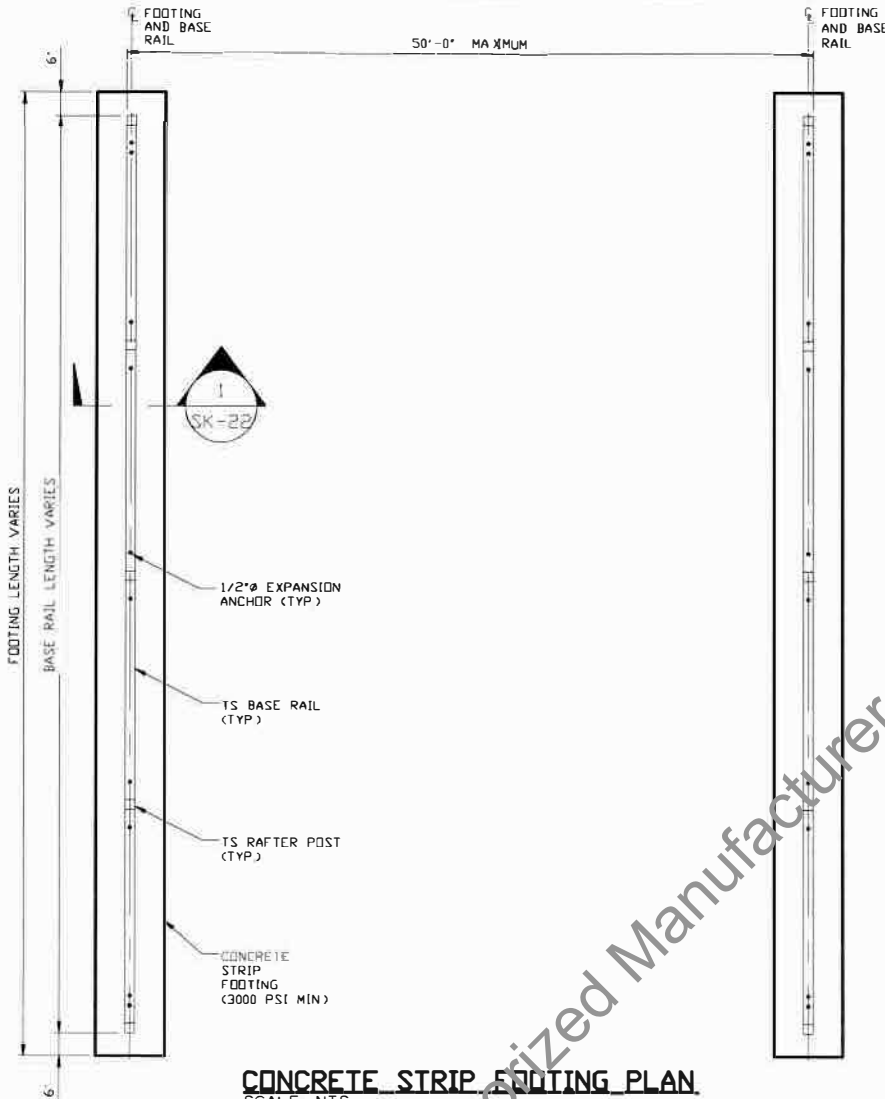
SHT. 21

DWG. NO: SK-3

REV: 4

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OPTIONAL CONCRETE STRIP FOOTING FOR 50'-0" MAXIMUM



- NOTES:
1. COORDINATE WITH LOCAL CODES/ORD.
 2. CONCRETE STRIP FOOTING DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 1,500 PSF
 3. MINIMUM ANCHOR EDGE DISTANCE IS 4"

**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: JG

CHECKED BY: PDH

CARPORT CENTRAL INC.
737 SOUTH MAIN STREET
MOUNT AIRY, NC 27030
70'-0"x20'-0" SP ENCLOSED STRUCTURE

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PROJECT MGR: VSM

CLIENT: CARPORT CENTRAL

DATE: 12-16-20

SHT. 22

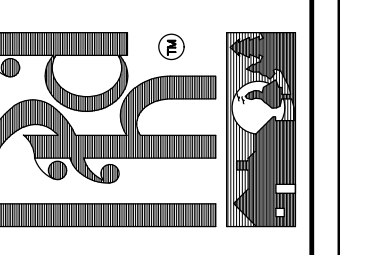
SCALE: NTS

DWG. NO: SK-3

**18168S/18254S/
JOB NO: 19174S/19339S**

REV: 4

DISK FILE NO. C.F. - EDWARD GAINER - FEB.-2022



CONTRACTOR INFORMATION

Edward GAINER

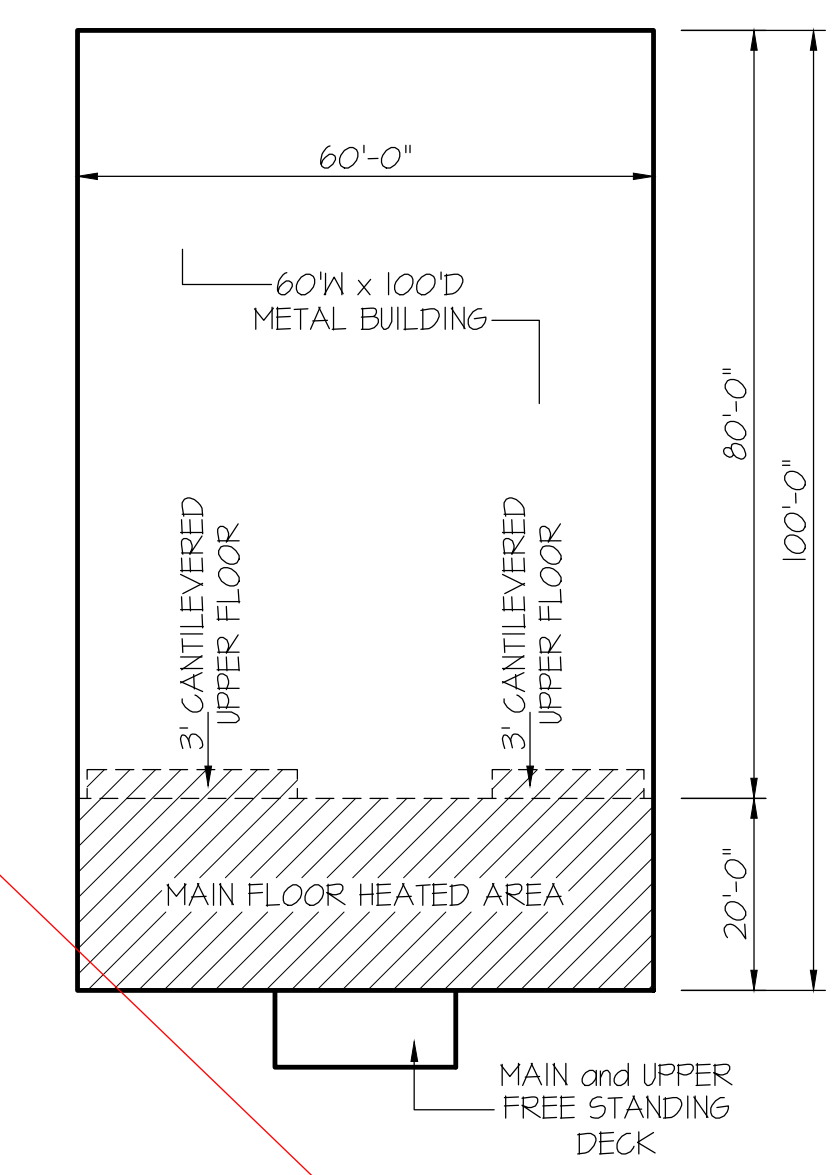
PROJECT LOCATION:

PROJECT NAME:

SHEET TITLE:
MAIN FLOOR

SHEET NO.
A-2

WIND ZONES (PER TABLE R301.2(4))	
COUNTY	MPH
MONTGOMERY	115
MOORE	115
STANLY	115
RANDOLPH	115



GUIDE LAYOUT
SCALE: 1" = 20'-0"

INSULATION and FENESTRATION REQUIREMENTS		
CLIMATE ZONE	ZONE-3	ZONE-4
FENESTRATION U-FACTOR	0.35	0.35
GLAZED FENESTRATION SHGC	0.30	0.30
MINIMUM CEILING R-VALUE	R-38	R-38
MINIMUM WALL R-VALUE	R-15 (3.2.5)	R-15 (3.2.5)
MINIMUM FLOOR R-VALUE	R-14	R-14
MIN. CRAWL SPACE WALL R-VALUE	5/8	10/16
MIN. SLAB R-VALUE	0	R-10

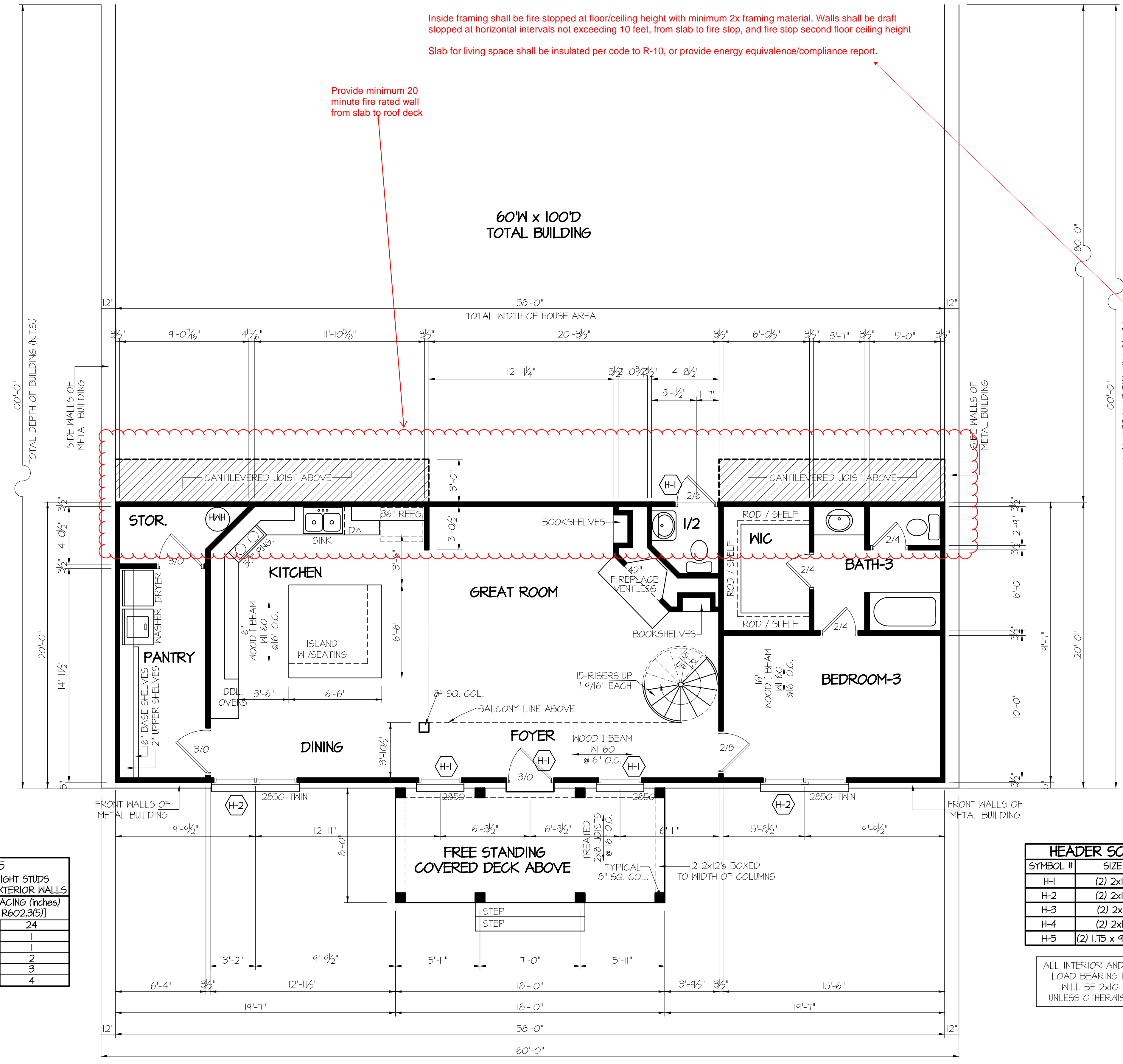
PROVIDE STEPS AS REQUIRED
GRADE MAY VARY - BUILDER TO VERIFY

ALL EXTERIOR WALLS TO BE SHEATHED WITH CS-WSP (1/16" OSB) IN ACCORDANCE WITH SECTION R602.10.3 UNLESS OTHERWISE NOTED.



SQUARE FOOTAGE CALCULATIONS	
MAIN LEVEL - FRAME-HEATED AREA =	1136 S.F.
UPPER LEVEL - FRAME-HEATED AREA =	943 S.F.
TOTAL - FRAME-HEATED AREA =	2079 S.F.
COVERED WOOD DECK AREA =	151 S.F.
UPPER WOOD DECK AREA =	151 S.F.

SECTION R401-COLUMNS
R401.3 STRUCTURAL REQUIREMENTS.
THE COLUMNS SHALL BE RESTRAINED TO PREVENT LATERAL DISPLACEMENT AT THE TOP AND BOTTOM END. WOOD COLUMNS SHALL BE NOT LESS IN NOMINAL SIZE THAN 4 INCHES BY 4 INCHES (102 mm BY 102 mm). STEEL COLUMNS SHALL BE NOT LESS THAN 3-INCH-DIAMETER (76 mm) SCHEDULE 40 PIPE MANUFACTURED IN ACCORDANCE WITH ASTM A53 GRADE B OR APPROVED EQUIVALENT.



Inside framing shall be fire stopped at floor/ceiling height with minimum 2x framing material. Walls shall be draft stopped at horizontal intervals not exceeding 10 feet, from slab to fire stop, and fire stop second floor ceiling height

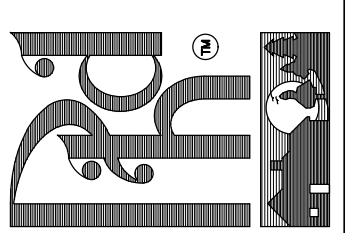
Slab for living space shall be insulated per code to R-10, or provide energy equivalence/compliance report.

Provide minimum 20 minute fire rated wall from slab to roof deck

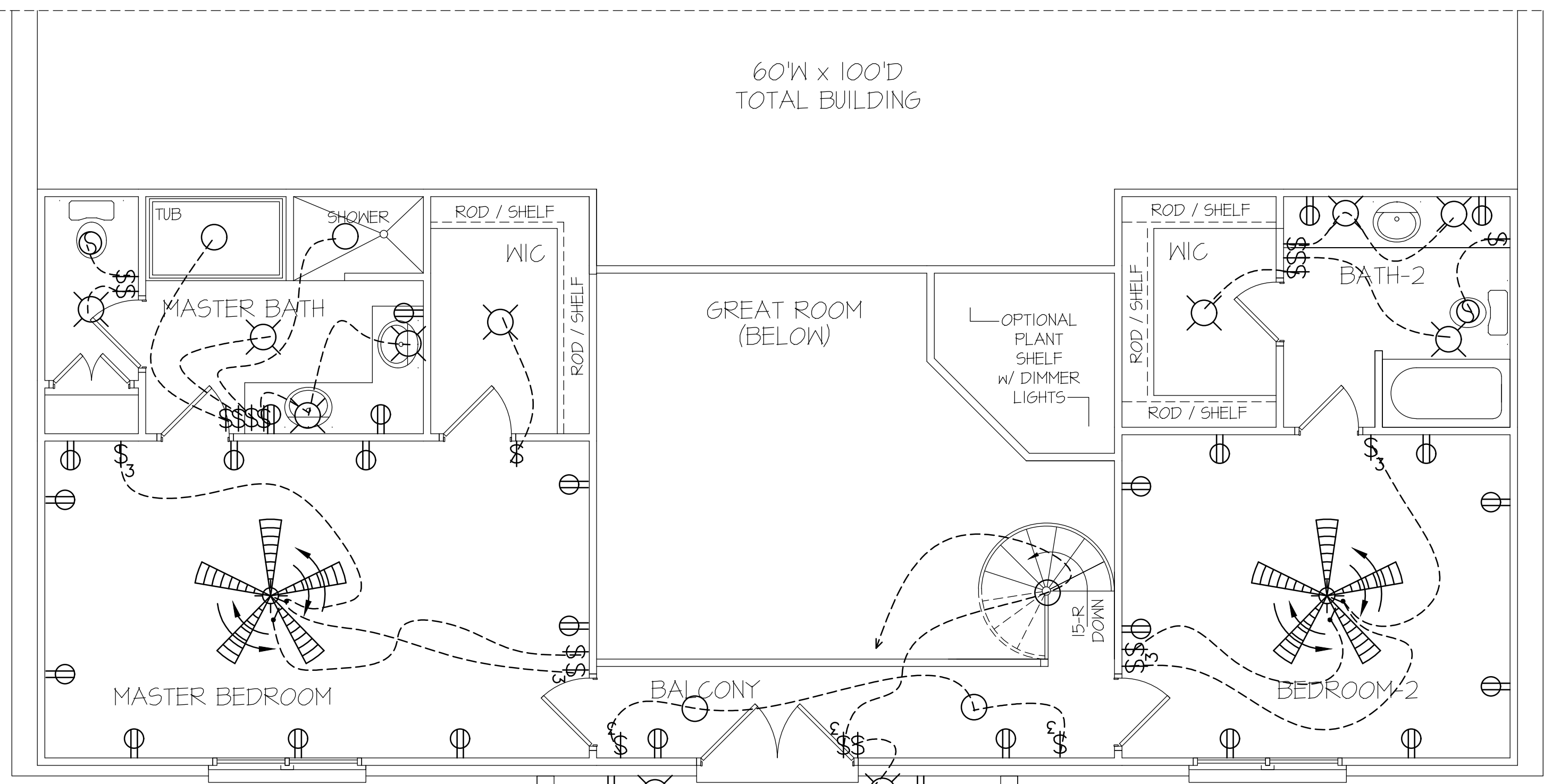
TABLE R602.7.5 MINIMUM NUMBER OF FULL HEIGHT STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS		
HEADER SPAN (feet)	MAX. STUD SPACINGS (inches) [per Table R602.3(5)]	
	16	24
< 3'	1	1
4'	2	1
8'	3	2
12'	5	3
16'	6	4

HEADER SCHEDULE		
SYMBOL #	SIZE	JACKS
H-1	(2) 2x10	1
H-2	(2) 2x10	2
H-3	(2) 2x8	2
H-4	(2) 2x12	2
H-5	(2) 1.75 x 9.25 LVL	3

ALL INTERIOR AND EXTERIOR LOAD BEARING HEADERS WILL BE 2x10 #2 SPF UNLESS OTHERWISE NOTED.

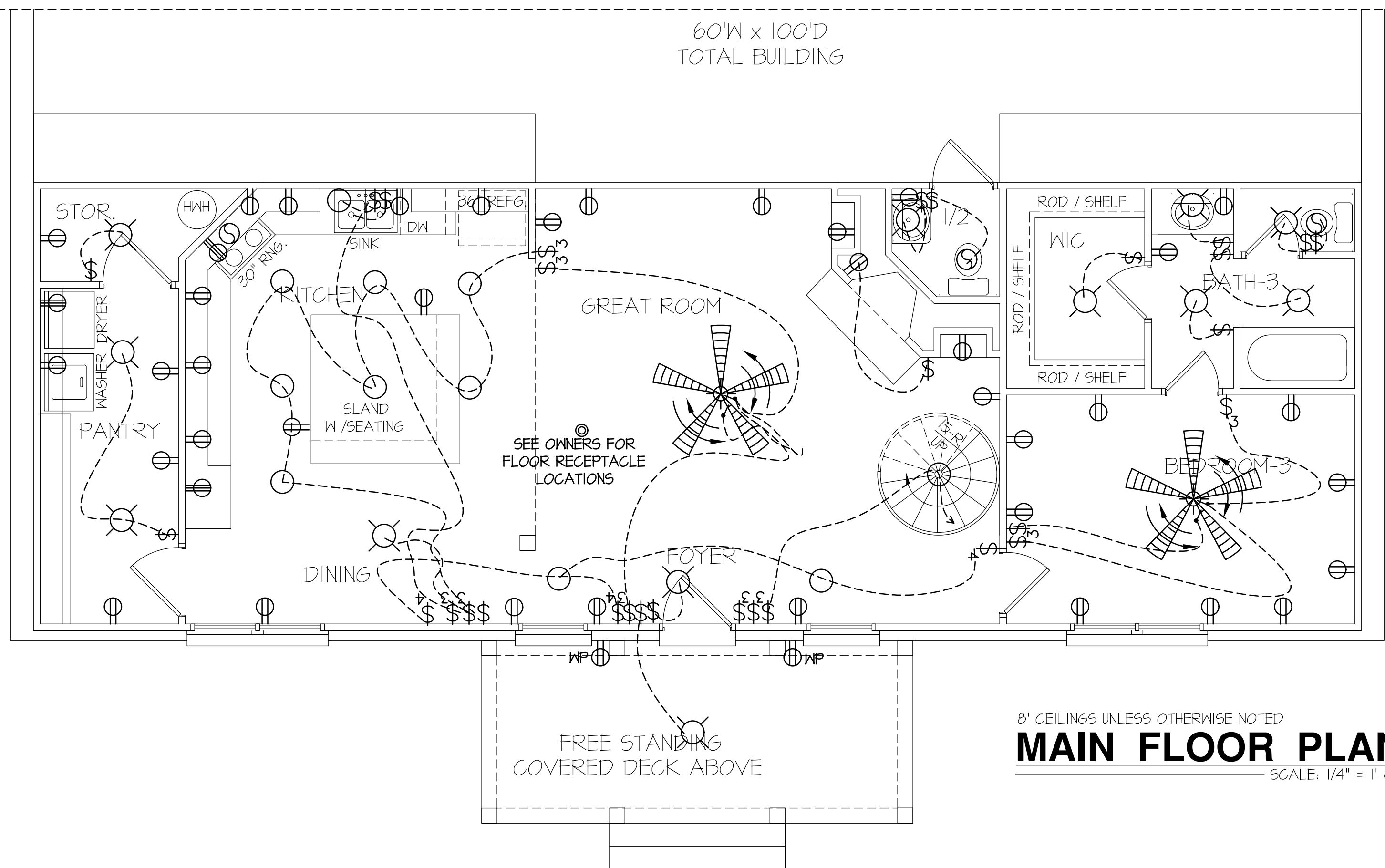


ELECTRICAL LEGEND		
PROVIDE BURGLAR/SMOKE AND FIRE DETECTORS AS PER MANUFACTURER'S SPECIFICATIONS. PROVIDE CENTRAL VACCUUM SYSTEM AS PER MANUFACTURER'S SPECIFICATIONS. ALL FANS ARE TO BE CONTROLLED BY VAR/SPEED AND DIRECTIONAL SWITCHES		
⊕ SURF. MOUNTED LIGHT	⊖ TYPICAL WALL RECEP.	⊖ TYPICAL SWITCH
○ RECESSED LIGHT	⊖ TOP 1/2 HOT W/SWITCH	⊖ 3-WAY SWITCH
⊖ EYEBALL LIGHT	⊖ CEILING RECEPTACLE	⊖ 4-WAY SWITCH
⊖ FAN/LIGHT COMB.	⊖ FLOOR RECEPTACLE	⊖ DIMMER SWITCH
— FLUORESCENT TUBE	⊖ WATERPROOF RECEP.	⊖ ELEC. PANEL BOX
⊖ FLUOR. LIGHT FIXTURE	⊖ GROUND FAULT	⊖ T.V. CABLE RECEP.
⊖ EXHAUST FAN	⊖ DISPOSAL UNIT	⊖ TELEPHONE JACK
⊖ CL'G. FAN	⊖ 220V 220 VOLT RECEPTACLE	⊖ COMPUTER JACK
⊖ FLOOD LIGHT		



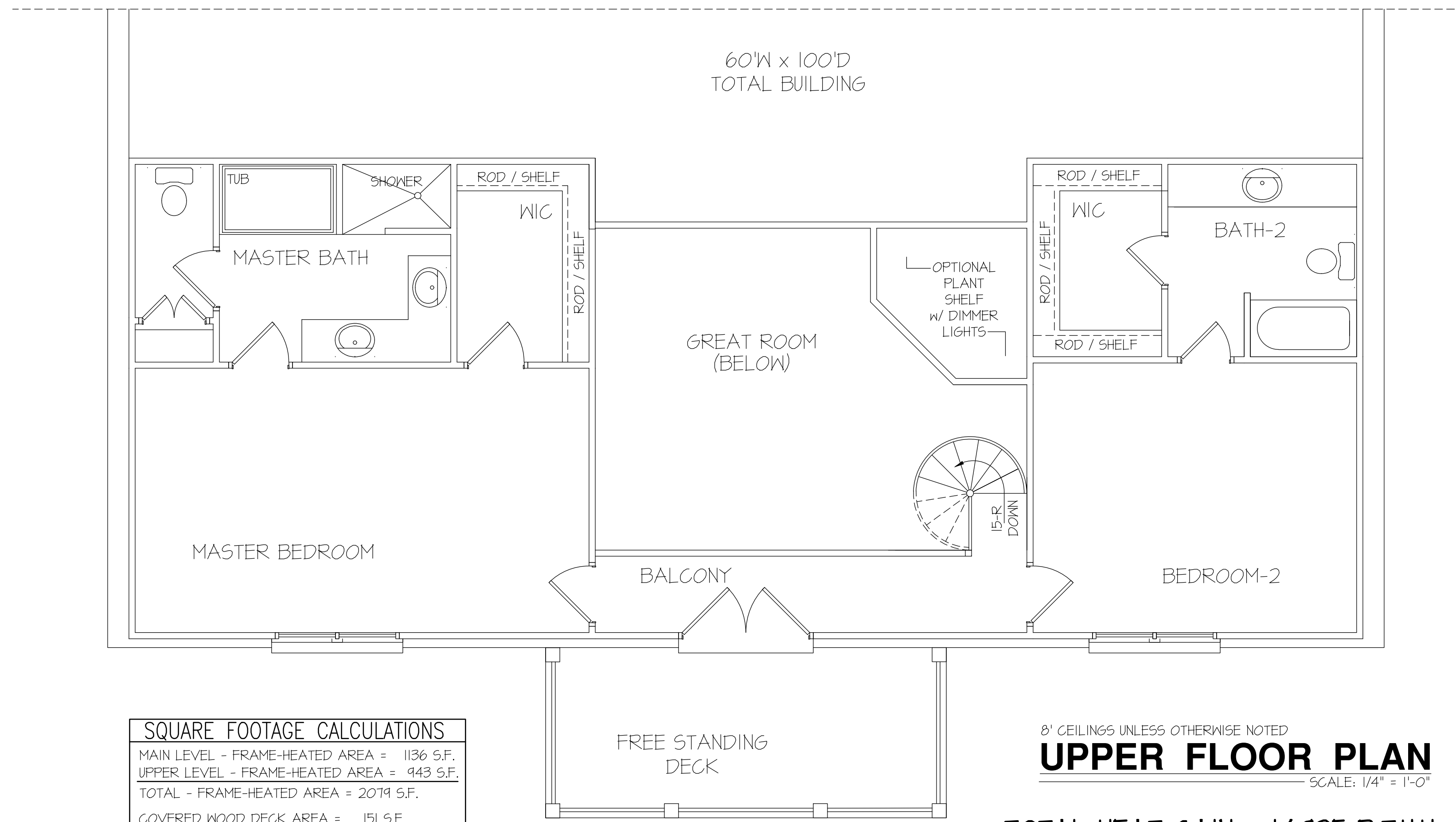
SQUARE FOOTAGE CALCULATIONS
MAIN LEVEL - FRAME-HEATED AREA = 1136 S.F.
UPPER LEVEL - FRAME-HEATED AREA = 943 S.F.
TOTAL - FRAME-HEATED AREA = 2079 S.F.
COVERED WOOD DECK AREA = 151 S.F.
UPPER WOOD DECK AREA = 151 S.F.

8' CEILINGS UNLESS OTHERWISE NOTED
UPPER FLOOR PLAN
SCALE: 1/4" = 1'-0"



8' CEILINGS UNLESS OTHERWISE NOTED
MAIN FLOOR PLAN
SCALE: 1/4" = 1'-0"

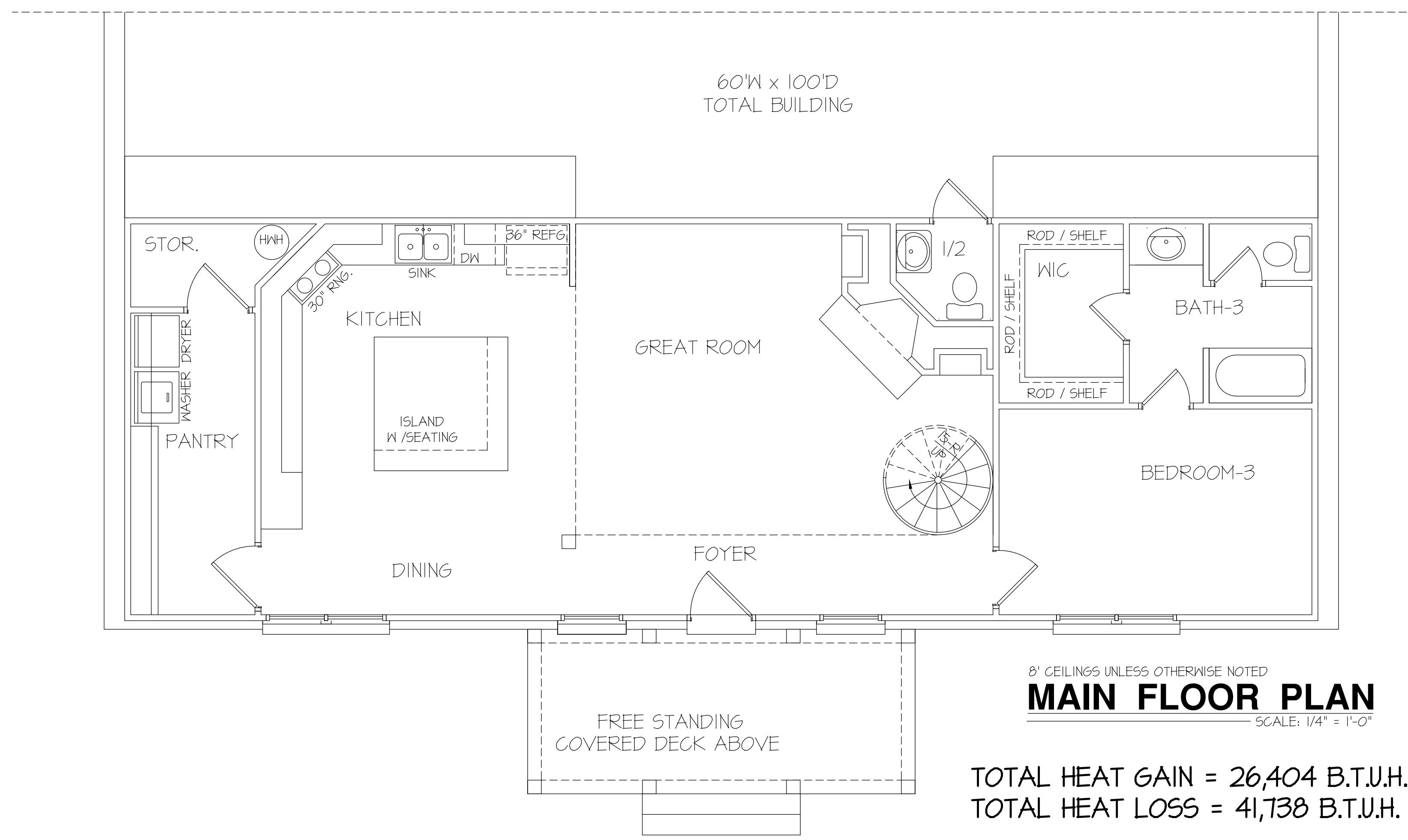
NOTE:
 HVAC CONTRACTOR TO VERIFY and PROVIDE OWNERS and BUILDER UNIT INFORMATION, BTUH REQUIREMENTS, and DUCT LAYOUTS BEFORE CONSTRUCTION BEGINS.



SQUARE FOOTAGE CALCULATIONS	
MAIN LEVEL - FRAME-HEATED AREA =	1136 S.F.
UPPER LEVEL - FRAME-HEATED AREA =	943 S.F.
TOTAL - FRAME-HEATED AREA =	2079 S.F.
COVERED WOOD DECK AREA =	151 S.F.
UPPER WOOD DECK AREA =	151 S.F.

UPPER FLOOR PLAN
 SCALE: 1/4" = 1'-0"

TOTAL HEAT GAIN = 14,925 B.T.U.H.
 TOTAL HEAT LOSS = 23,592 B.T.U.H.



MAIN FLOOR PLAN
 SCALE: 1/4" = 1'-0"

TOTAL HEAT GAIN = 26,404 B.T.U.H.
 TOTAL HEAT LOSS = 41,738 B.T.U.H.

DATE: MARCH 10, 2022	REVISIONS DATE:
PROFESSIONAL HOME DESIGN RANDALL K. PAPE 1539 HATTERDALE FARM ROAD BLOUNTVILLE, TN - 37617 O: (910) 257-5588 e-mail: rpapehd@gmail.com © 2022, Professional Home Design	
CONTRACTOR INFORMATION Edward GAINER	
PROJECT LOCATION:	PROJECT NAME:
SCALE: 1/4" = 1'-0" NOTE: IF THIS DRAWING IS NOT PLOTTED ON 24" x 36", IT HAS BEEN REVERSED FROM ITS ORIGINAL SIZE. SCALE IS NO LONGER APPLICABLE.	
SHEET TITLE: UPPER FLOOR and MAIN FLOOR HVAC	
SHEET NO. <h1 style="margin: 0;">A-6</h1>	