

STRUCTURAL DESIGN ENCLOSED BUILDING

MAXIMUM 30'-0" WIDE X 16'- 0" EAVE HEIGHT-BOX EAVE FRAME AND BOW FRAME

14 April 2022 Revision 0 M&A Project No. 21204S

Prepared for:

Northedge Steel, LLC 350 Forum Parkway Rural Hall, NC 27045

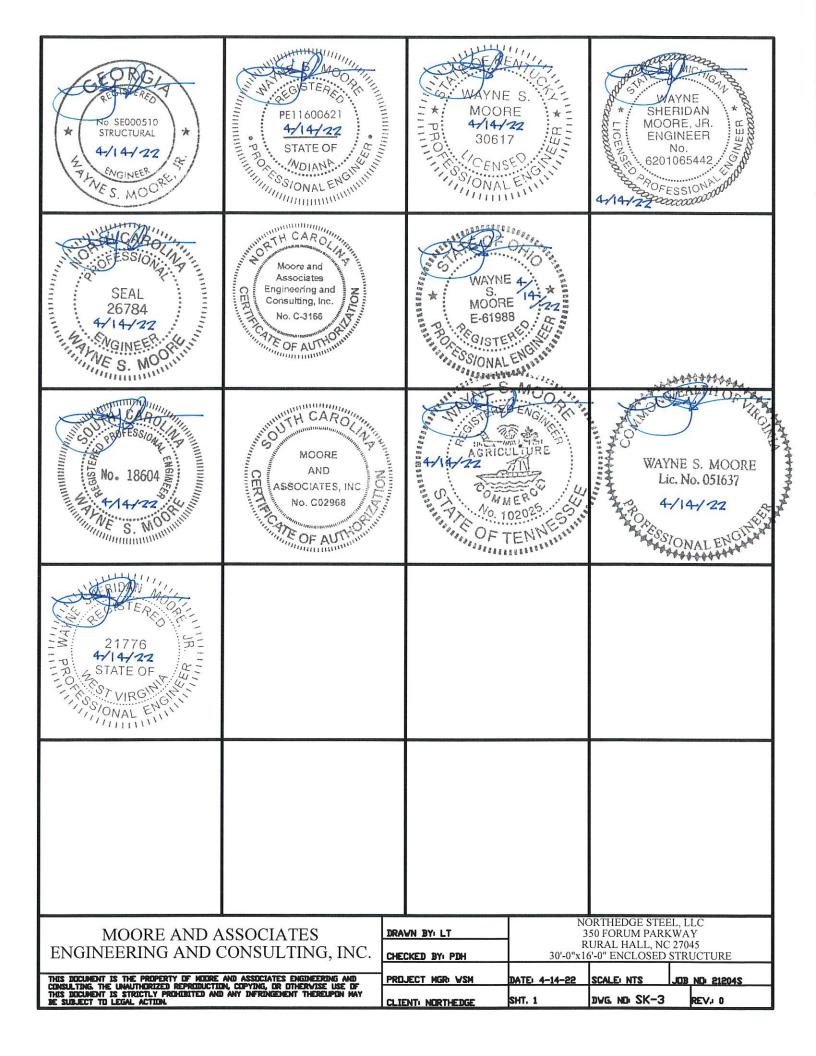
Prepared by:

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ENGINEEDING AND CONGULTING INC	CHECKED BY: PDH	RURAL HALL, NC 27045 30'-0"x16'-0" ENCLOSED STRUCTUR		
MOORE AND ASSOCIATES	DRAVN BY: LT		ORTHEDGE STEE 50 FORUM PARK	

INSTALLATION NOTES AND SPECIFICATIONS

- 1. DESIGN IS FOR MAXIMUM 30'-0' WIDE \times 16'-0' EAVE HEIGHT ENCLOSED STRUCTURES.
- 2. DESIGN WAS DONE IN ACCORDANCE WITH ALL THE APPLICABLE BUILDING CODES LISTED ON SHEET 3A.
- 3, DESIGN LOADS ARE AS FOLLOWS:

A) ROOF DEAD LOADS:

SELF-WEIGHT = 1.5 PSF MEP = 0 PSF

COLLATERAL = 0 PSF

B) ROOF LIVE LOAD = 12 PSF

- = 100 PSF (4" CONCRETE SLAB-ON-GRADE) C) FLOOR LIVE LOAD
- D) GROUND SNOW LOAD = 60 PSF

= 35 PSF

= 30 PSF (W \(24'-0"), WITH U-CHANNEL RAFTER TIE>

NOTE: UNBALANCED LOADING DUE TO SNOW DRIFTING FROM AN ADJACENT TALLER STRUCTURE HAS NOT BEEN EVALUATED.

- 4. 3-SECOND GUST WIND SPEED = ζ 115 MPH (NOMINAL WIND SPEED = ζ 89 MPH).
- 5. MAXIMUM RAFTER/COLUMN AND END COLUMN SPACING = 3.5 FEET FOR SL 35 PSF < TO < 60 PSF AND 5.0 FEET FOR < 35 PSF <UNLESS NOTED OTHERWISE).
- 6. END WALL COLUMNS (POSTS) ARE EQUIVALENT TO SIDE WALL COLUMNS IN SIZE AND SPACING (UNLESS NOTED OTHERWISE).
- 7. RISK CATEGORY I (NOT FOR HUMAN HABITATION).
- 8. WIND EXPOSURE CATEGORY B/C.
- 9. SPECIFICATIONS APPLICABLE TO 29 GAUGE (FOR SL < 35 PSF) AND 26 GAUGE (FOR SL 35 PSF < TO < 60 PSF) METAL PANELS FASTENED DIRECTLY TO 2 1/2* x 2 1/2* 14 GAUGE TUBE STEEL (TS) FRAMING MEMBERS (UNLESS NOTED OTHERWISE), IS 2 1/4* x 2 1/4* 12 GAUGE MAY BE USED AS AN OPTION.
- 9. CONNECTOR SLEEVES ARE MINIMUM 6' LONG, TS 2 1/4'x2 1/4'-14 GAUGE FOR 2 1/2'x2 1/2'-14 GAUGE AND TS 2'x2'-12 GAUGE FOR 2 1/4'x2 1/4'-12 GAUGE FRAMING MEMBERS (UNLESS NOTED OTHERWISE).
- 10. STRUCTURAL ANALYSIS/DESIGN IS BASED ON TS MEETING THE REQUIREMENTS OF ASTM A653 GRADE 50 WITH MINIMUM YIELD STRENGTH (Fy) OF 54 KSI AND GALVANIZING MEETING THE MINIMUM REQUIREMENTS OF G60.
- 11. AVERAGE PANEL FASTENER SPACING ON-CENTERS = 9" D.C. (MAX.
- 12. 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" (3:12 PITCH) OR LESS SPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY VARY. ROOF SLOPES LESS THAN 3:12 REQUIRE USE OF LAP JOINT SEALANT.
- 13, ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6' OF EACH RAFTER COLUMN ALONG SIDES.
- 14. STANDARD GROUND ANCHORS (SDIL NAILS) CONSIST OF #4 REBAR W/ WELDED NUT x 36' LONG AND MAY BE USED IN SUITABLE SDILS, OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SDILS AND MUST BE USED IN UNSUITABLE SDILS AS NOTED, COORDINATE WITH LOCAL CODES/ORDINANCES REGARDING MINIMUM LENGTH FOR FROST DEPTH PROTECTION.
- 15. CONTRACTOR TO PROVIDE ADEQUATE BRACING FOR STRUCTURE SO THAT IT WILL BE STABLE DURING ALL STAGES OF CONSTRUCTION. THE STRUCTURE AND FOUNDATION ARE DESIGNED FOR A COMPLETED CONDITION ONLY AND, THEREFORE, REQUIRE ADDITIONAL SUPPORT TO MAINTAIN STABILITY BEFORE COMPLETION.
- 16. WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE: SDIL SITE CLASS = D

RISK CATEGORY I

 $I_E = 1.0$ R = 3.25

 $\sqrt{\ } = C^{2}M$ $S_{DS} = 2.625 g$

 $S_{Di} = 2.13 g$

- 17. IF MORE THAN 50% OF COLUMN (LEG) ARE REMOVED IN ANY LONGITUDINAL (SIDE) WALLS OF A BUILDING, THE ENGINEER IS TO BE NOTIFIED TO DETERMINE WHETHER PORTAL FRAMES OR OTHER LONGITUDINAL STABILITY ELEMENTS WILL BE REQUIRED.
- 18. THIS MASTER BESIGN IS A GENERIC MASTER DESIGN PRIMARILY INTENDED FOR PLANT FABRICATION AND ERECTION AKIN TO SHOP DRAWINGS. THE MASTER BESIGN IS NOT PRIMARILY INTENDED FOR CONSTRUCTION PERMET, WHEN APPLYING FOR BUILDING PERMET, THE CERTIFIED BUILDING DEFICIAL MUST BE CONSULTED TO VERIFY WHETHER THE USE OF THE MASTER DESIGN IS ADEQUATE OR IF A SITE-SPECIFIC DESIGN IS REQUIRED FOR BUILDING PERMET. ANY VARIATION FROM THE ANALYSIS/DESIGN PARMETERS OF THE MASTER DESIGN REQUIRES THE DEVELOPMENT OF A SITE-SPECIFIC DESIGN.

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PROJECT MGR: VSM	DATE: 4-14-22	SCALE: NTS	JOB NO 21204S			
CHECKED BY: PDH		URAL HALL, NO 6'-0" ENCLOSED				
DRAWN BY: LT	350 FORUM PARKWAY					
DRAWN BY: LT	NORTHEDGE STEEL, LLC 350 FORUM PARKWAY					

LIST OF APPLICABLE BUILDING CODES

2018 INTERNATIONAL BUILDING CODE (IBC 2018)

2015 INTERNATIONAL BUILDING CODE (IBC 2015)

2012 INTERNATIONAL BUILDING CODE (IBC 2012)

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

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

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

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

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

OHIO BUILDING CODE 2017 (ADOPTS THE 2015 WITH AMENDMENTS)

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

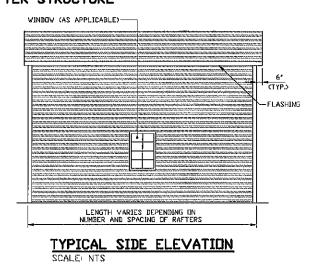
BUILDING CODE 2012 OF TENNESSEE
(ADOPTS THE IBC 2012 WITH AMENDMENTS)
BUILDING CODE 2018 OF NASHVILLE AND DAVIDSON
COUNTY (ADOPTS THE IBC 2018 WITH AMENDMENTS)

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

BUILDING CODE 2015 OF WEST VIRGINIA (ADOPTS THE IBC 2015 WITH AMENDMENTS)

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BOX EAVE FRAME RAFTER STRUCTURE PERSONNEL DOOR (AS APPLICABLE) ROLL-UP DOOR-12 (TYP.) FLASHING-W 30'-0' MAXIMUM RAFTER SPAN

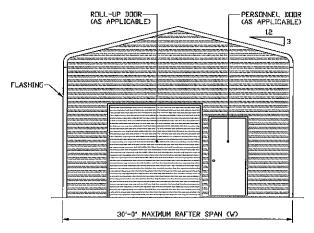


TYPICAL END ELEVATION

WINDOW (AS APPLICABLE)-

SCALE: NTS

BOW FRAME RAFTER STRUCTURE



LENGTH VARIES DEPENDING ON NUMBER AND SPACING OF RAFTERS

TYPICAL END ELEVATION SCALE: NTS

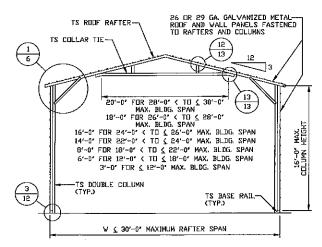
TYPICAL SIDE ELEVATION SCALE: NTS

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DRAWN BY: LT	NORTHEDGE STEEL, LLC 350 FORUM PARKWAY						

$35 \text{ PSF} < \text{TO} \leq 60 \text{ PSF SNOW LOAD}$

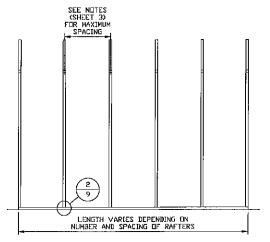


TYPICAL RAFTER/COLUMN FRAME SECTION

26 OR 29 GA. GALVANIZED METAL—ROOF AND VALL PANELS FASTENED TO RAFTERS AND COLUMNS TS RODE RAFTER TS COLLAR TIE-**∕**18` 13 6 6 **D** 20'-0' FOR 28'-0' < TO \(30'-0' \)
MAX. BLDG. SPAN

18'-0' FOR 26'-0' < TO \(28'-0' \)
MAX. BLDG. SPAN 13 16'-0' FDR 24'-0' < TO ≤ 26'-0' MAX. BLDG. SPAN 14'-0' FDR 22'-0' < TO ≤ 26'-0' MAX. BLDG. SPAN 8'-0' FDR 18'-0' < TO ≤ 24'-0' MAX. BLDG. SPAN 6'-0' FDR 18'-0' < TO ≤ 18'-0' MAX. BLDG. SPAN 6'-0' FDR 12'-0' < TO ≤ 18'-0' MAX. BLDG. SPAN 3'-0' FDR ≤ 12'-0' MAX. BLDG. SPAN MAX, HEIGHT 14'-0" COLUMN 3A 12 -TS C∐LUMN (TYP,) ₩ < 30'-0' MAXIMUM RAFTER SPAN

TYPICAL RAFTER/COLUMN FRAME SECTION



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

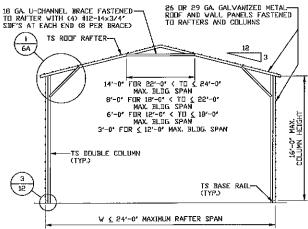
SCALE: NTS

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≤35 PSF SNOW LOAD 26 DR 29 GA. GALVANIZED METAL— ROOF AND WALL PANELS FASTENED TO RAFTERS AND COLUMNS TS ROOF RAFTER-TS COLLAR TIE 12 (1 6A _13_ 13 20'-0' FDR 28'-0' < TO ≤ 30'-0' MAX, BLDG, SPAN 18'-0' FOR 26'-0' < TO ≤ 28'-0' MAX, BLDG, SPAN 16'-0" FOR 24'-0" < TO < 26'-0" MAX. BLDG. SPAN MAX. HEIGH 16'-0' -TS DOUBLE COLUMN 3 12 TS BASE RAIL-(TYP.) 24'-0" < W & 30'-0" MAXIMUM RAFTER SPAN

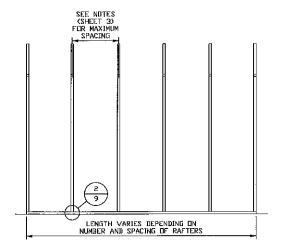
TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

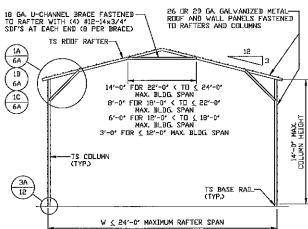
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NORTHEDGE STEEL, LLC DRAVN BY: LT MOORE AND ASSOCIATES 350 FORUM PARKWAY RURAL HALL, NC 27045 ENGINEERING AND CONSULTING, INC. 30'-0"x16'-0" ENCLOSED STRUCTURE CHECKED BY: PDH THIS BOCUMENT IS THE PROPERTY OF HOURE AND ASSICIATES ENGINEERING AND CONSULTING. THE UMAITHORIZED REPRODUCTION, COPYING, OR OTHERVISE USE OF THIS BOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION. DATE: 4-14-22 PROJECT MGR: VSM SCALE NTS OB NO 21204S REV. 0 DAC" NO 2K-3 SHT, 5A CLIENT NORTHEDGE

26 DR 29 GA. GALVANIZED METAL—ROOF AND WALL PANELS FASTENED TO RAFTERS AND COLUMNS TS RODE RAFTER 6A (12) 1B 6A 13 îc.] 3 20'-0' FDR 28'-0' < TD ≤ 30'-0' MAX. BLDG. SPAN 18'-0' FDR 26'-0' < TD ≤ 28'-0' MAX. BLDG. SPAN 16'-0' FDR 24'-0' < TD ≤ 26'-0' MAX. BLDG. SPAN 13 MAX. HEIGH 14'-0' CDLUMN -TS COLUMN 12 TS BASE RAIL-24'-0" < W ≤ 30'-0" MAXIMUM RAFTER SPAN

TYPICAL RAFTER/COLUMN FRAME SECTION

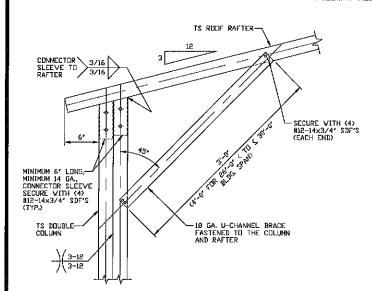
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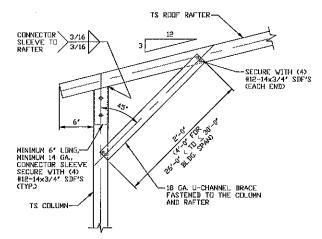
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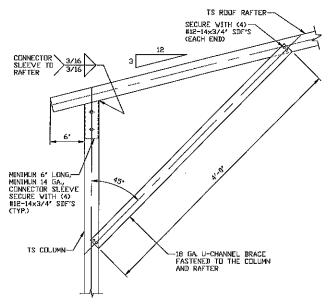
$35 \text{ PSF} < \text{TO} \le 60 \text{ PSF SNOW LOAD}$



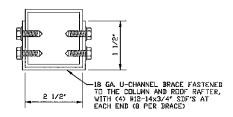
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 14'-0" < TO < 16'-0"



BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS & 10'-0'



BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 10'-0" < TO < 14'-0"

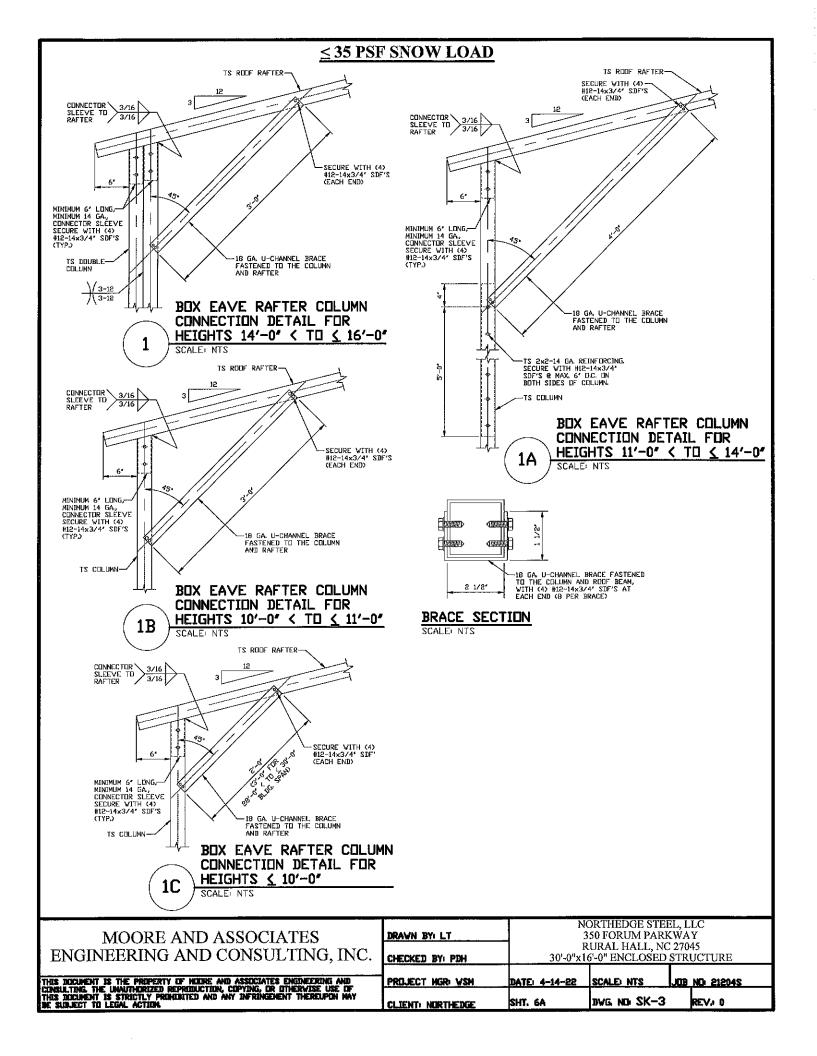


BRACE SECTION

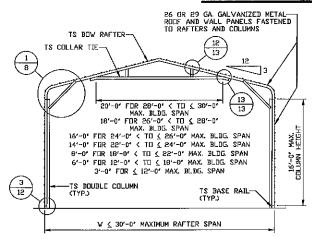
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PROJECT MGR: VSM	DATE: 4-14-22	SCALE: NTS	JOB	ND: 21204S		
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CHECKED BY PDH		URAL HALL, NC 5'-0" ENCLOSED	LL, NC 27045 LOSED STRUCTURE			
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DRAWN BY: LT	1 3	50 FORUM PARK	Α ΊΧΑ	v		
	NORTHEDGE STEEL, LLC					

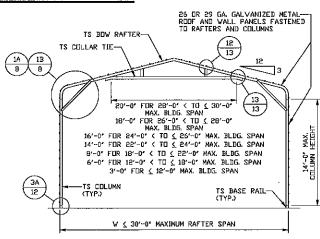


35 PSF < TO \le 60 PSF SNOW LOAD



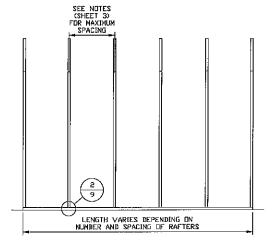
TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS

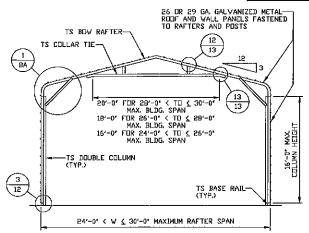


TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

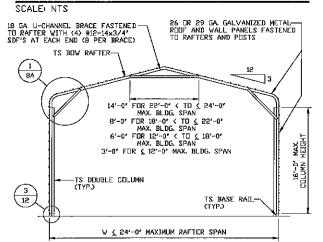
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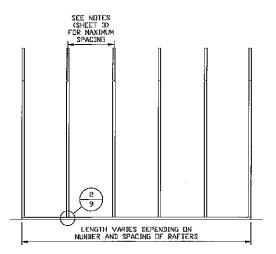
\leq 35 PSF SNOW LOAD



TYPICAL RAFTER/COLUMN FRAME SECTION



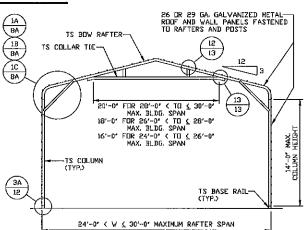
TYPICAL RAFTER/COLUMN FRAME SECTION



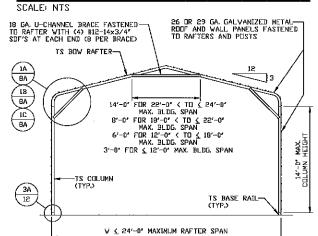
TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION SCALE NTS

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TYPICAL RAFTER/COLUMN FRAME SECTION

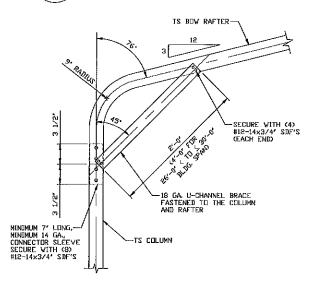


TYPICAL RAFTER/COLUMN FRAME SECTION

CLIENT) NORTHEDGE	SHT. 7A	DVG ND SK-3		REV. 0		
PROJECT MGR: VSM	DATE: 4-14-22	SCALE) NTS	JOB	ND 21204S		
CHECKED BY: PDH	RURAL HALL, NC 27045 30'-0"x16'-0" ENCLOSED STRUCTURE					
DRAWN BY: LT	NORTHEDGE STEEL, LLC 350 FORUM PARKWAY					

TS BOW RAFTER SECURE WITH (4) BI2-14x3/4' SDF'S GEACH ENDS MINIMUM 7' LONG, MINIMUM 14 GA, MINIMUM 14 GA,

BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 14'-0' < TO \(\) 16'-0"



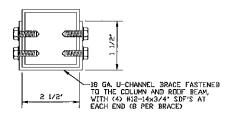
BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS & 10'-0'

MINIMUM 7' LONG,
MINIMUM 7' LONG,
MINIMUM 14 GA,
CONNECTINE SLEEVE
SECURE WITH (8)
H12-14×3/4' SDF'S

TS COLUMN

TS COLUMN

BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 10'-0" < TO < 14'-0"

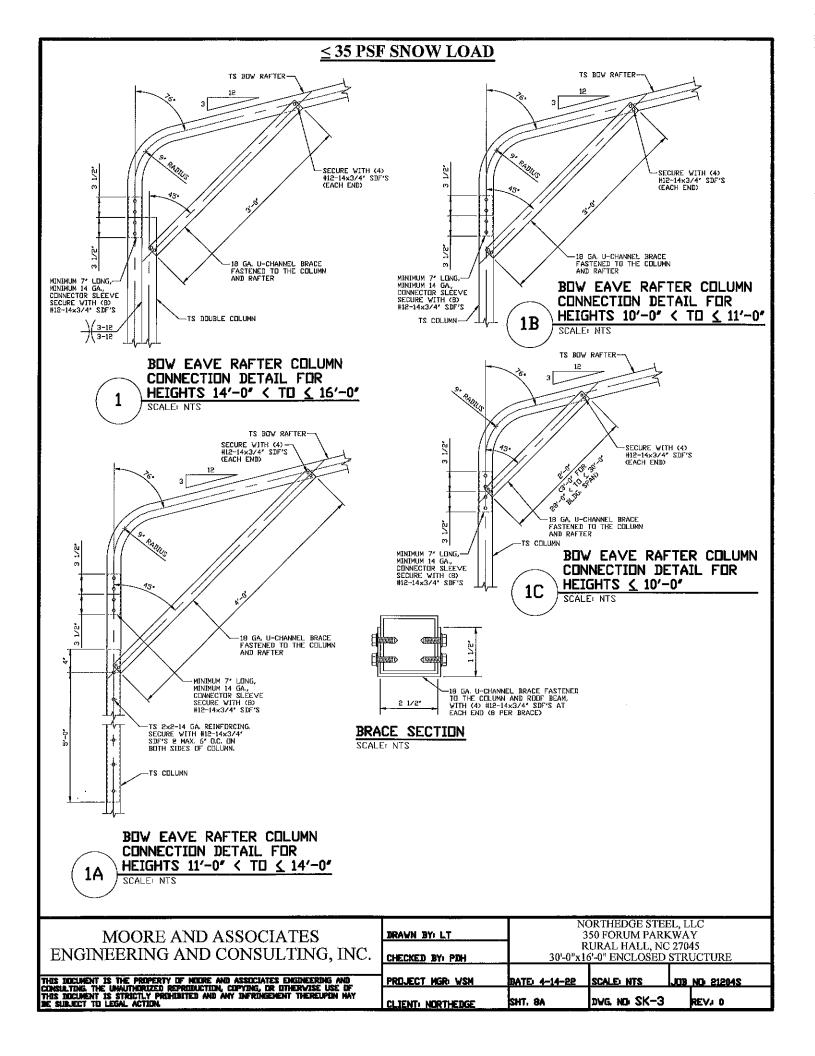


BRACE SECTION

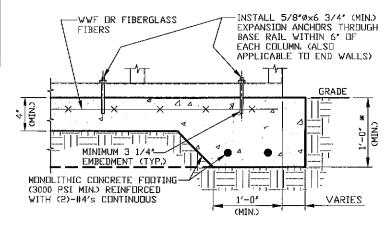
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 PROJECT MGR: VSM	DATE: 4-14-22	SCALE: NTS	JOB	ND 21204S	
CHECKED BY: PDH		5'-0" ENCLOSED			
DRAWN BY: LT	NORTHEDGE STEEL, LLC 350 FORUM PARKWAY RURAL HALL, NC 27045				



BASE RAIL ANCHORAGE OPTIONS FOR 35 PSF < TO \leq 60 PSF SNOW LOAD





CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

SCALE: NTS MINIMUM ANCHOR EDGE DISTANCE IS 4". * COORDINATE WITH LOCAL BUILDING CODE AND/OR BUILDING OFFICIAL REGARDING REQUIRED FOOTING DEPTH.

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 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

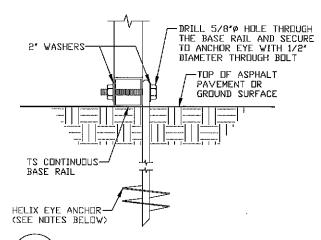
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

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

- 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. REINFURCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.

HELIX ANCHOR NOTES:

- 1. FOR VERY DENSE AND/OR CEMENTED SANDS, COARSE GRAVEL AND COBBLES, CALICHE, PRELDADED SILTS AND CLAYS, USE MINIMUM (2) 4' HELICES WITH MINIMUM 30' EMBEDMENT OR SINGLE 6" HELIX WITH MINIMUM 50" EMBEDMENT
- 2. FUR CORAL USE MINIMUM (2) 4' HELICES WITH MINIMUM 30' EMBEDMENT OR SINGLE 6' HELIX WITH MINIMUM 50' EMBEDMENT.
- 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 3. FOR MEDIUM DENSE COARSE SANDS, SANDY GRAVELS, 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.

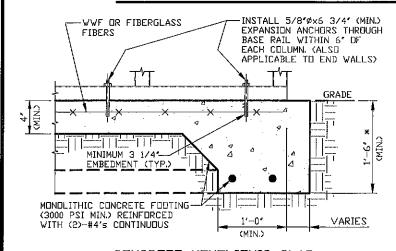


GROUND BASE HELIX ANCHORAGE

(CAN BE USED FOR ASPHALT)

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ENGREEDING AND CONGUETING INC	CHECKED BY: PDH		RURAL HALL, NO 6'-0" ENCLOSED		
MOORE AND ASSOCIATES	DRAWN BY: LT		ORTHEDGE STEI 350 FORUM PARK		

BASE RAIL ANCHORAGE OPTIONS FOR ≤ 35 PSF SNOW LOAD





CONCRETE MONOLITHIC SLAB BASE RAIL ANCHURAGE

SCALE: NTS MINIMUM ANCHUR EDGE DISTANCE IS 4". * COURDINATE WITH LOCAL BUILDING CODE AND/OR BUILDING OFFICIAL REGARDING REQUIRED FOOTING DEPTH.

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.

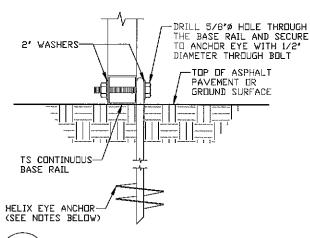
REINFORCEMENT MAY BE BENT IN THE SHOP OR THE FIELD PROVIDED:

- 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.

HELIX 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 LODGE 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.



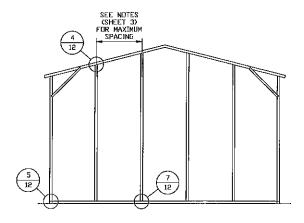
GROUND BASE HELIX ANCHORAGE (CAN BE USED FOR ASPHALT)

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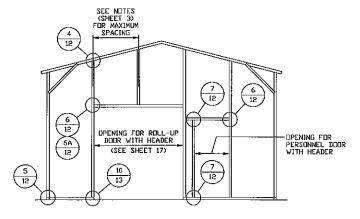
CLIENT: NORTHEDGE	SHT. 9A	DVG. ND: SK-3		REV. 0		
PROJECT MGR: VSM	DATE: 4-14-22	SCALE: NTS	98	NO: 21204S		
CHECKED BY: PDH		URAL HALL, NC 5'-0" ENCLOSED				
DRAWN BY: LT	NORTHEDGE STEEL, LLC 350 FORUM PARKWAY					

BOX EAVE RAFTER END WALL AND SIDE WALL FRAMING SECTIONS



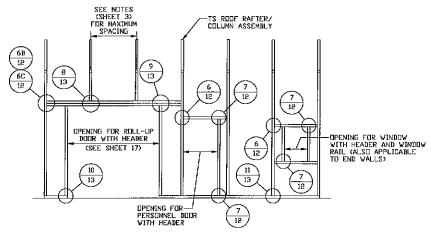
TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS

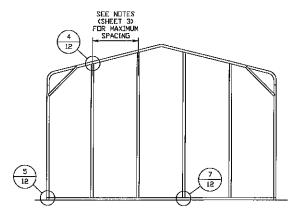


TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE: NTS

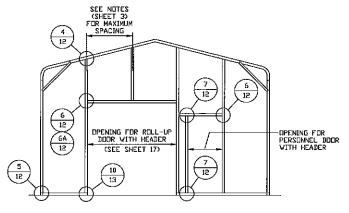
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ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH		URAL HALL, NC 6'-0" ENCLOSED	
MOORE AND ASSOCIATES	DRAWN BY: LT		ORTHEDGE STEE 50 FORUM PARK	

BOW RAFTER END WALL AND SIDE WALL FRAMING SECTIONS



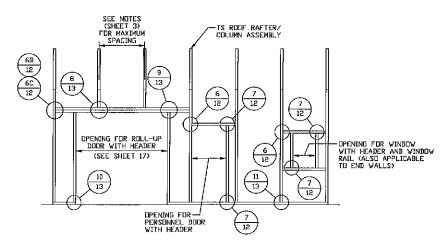
TYPICAL BOW RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOW RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS



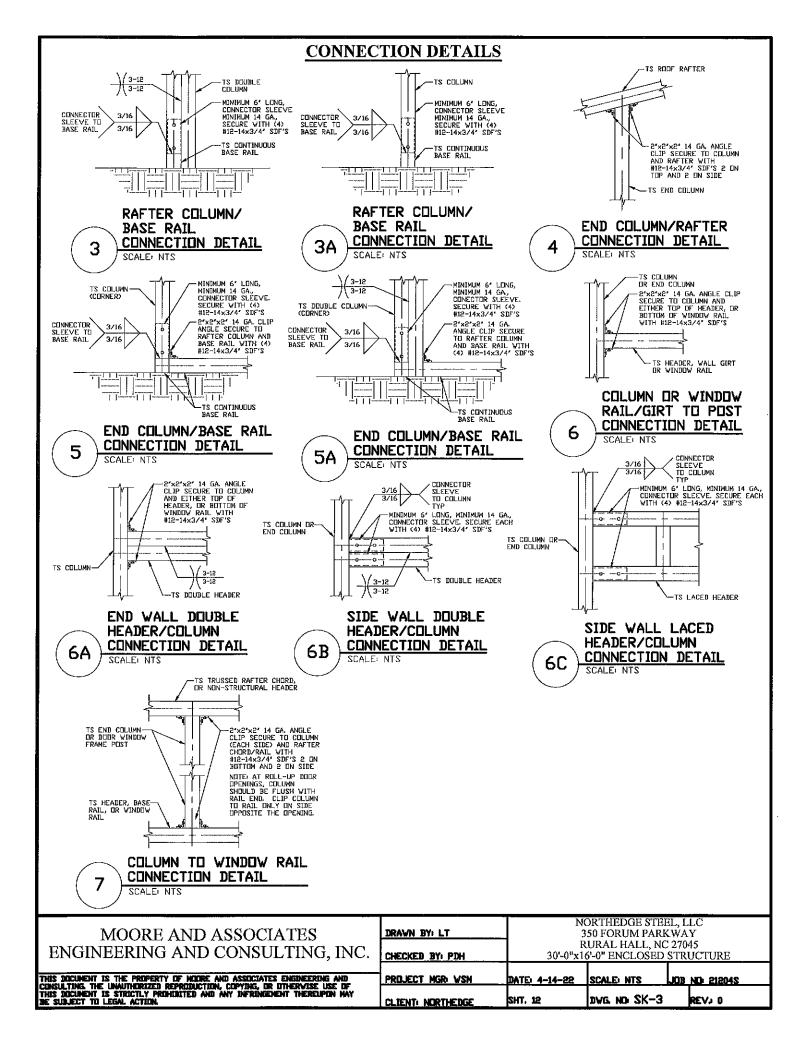
TYPICAL BOW RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE: NTS

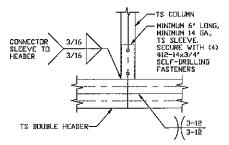
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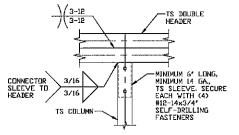
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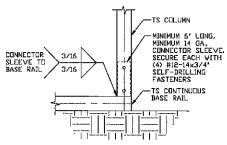
CLIENT: NORTHEDGE	SHT. 11	DWG. NO SK-3	REV. 0					
PROJECT MGR: VSM	DATE: 4-14-22	SCALE: NTS J	OB NO 21204S					
CHECKED BY PDH		URAL HALL, NC 2 5'-0" ENCLOSED S'						
DRAVN BY: LT	3.	350 FORUM PARKWAY						



CONNECTION DETAILS







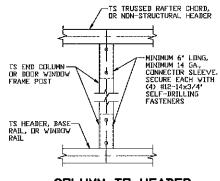
8 COLUMN/DOUBLE HEADER
CONNECTION DETAIL
SCALE: NTS

9 DOUBLE HEADER/COLUMN
CONNECTION DETAIL
SCALE: NTS

TS ROOF RAFTER

10 COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS

TS ROOF RAFTER



3/16 TS CHORD

SCALE: NTS

12

RAFTER TO CHORD

CONNECTION DETAIL

COLLAR TIE CONNECTION DETAIL

TS COLLAR TIE-

COLUMN TO HEADER OR BASE RAIL
CONNECTION DETAIL
SCALE, NTS

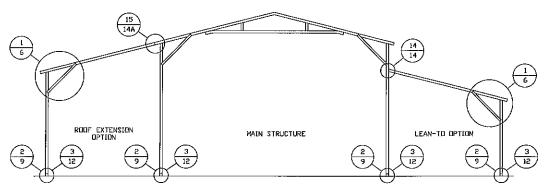
11

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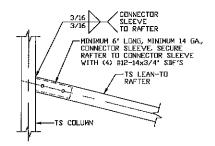
			DWG. NO: SK-3		REV.: 0			
_	PROJECT MGR: VSM	DATE: 4-14-22	SCALE: NTS	JOB	ND: 21204S			
	CHECKED BY: PDH		URAL HALL, NC 5'-0" ENCLOSED					
	DRAWN BY: LT		NORTHEDGE STEEL, LLC 350 FORUM PARKWAY					

BOX EAVE RAFTER LEAN-TO OPTIONS



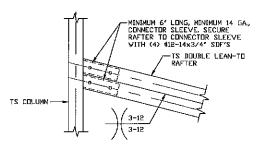
TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)

MAXIMUM HEIGHT OF A MAIN STRUCTURE SINGLE COLUMN WITH LEAN-TO OR ROOF EXTENSION IS NOT APPLICABLE FOR 35 PSF < TO < 60 PSF SL)
MAXIMUM HEIGHT OF A MAIN STRUCTURE SINGLE COLUMN WITH LEAN-TO OR ROOF EXTENSION IS 12'-0' FOR < 35 PSF SL) REFERENCE RAFTER COLUMN CONNECTION DETAILS FOR APPROPRIATE COLUMN HEIGHT AND TUBING SPECIFICATION. NOTE: LEAN-TO COLUMN SPACING MATCHES MAIN BUILDING COLUMN SPACING.



LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS ≤ 10'-0" WITH 35 PSF < TO ≤ 60 PSF SL AND FOR RAFTER SPANS 12'-0" WITH < 35 PSF SL

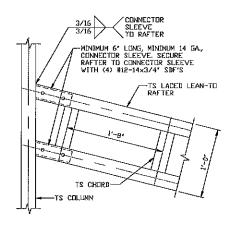
SCALE: NTS



LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS 10'-0" < TO ≤ 16'-0" WITH 35 PSF < T□ < 60 PSF SL AND F□R RAFTER SPANS 12'-0" < T□ < 16'-0" WITH & 35 PSF SL

14A

SCALE: NTS



LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS 16'-0"< T□ < 24'-0" 14B

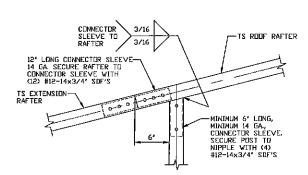
SCALE: NTS

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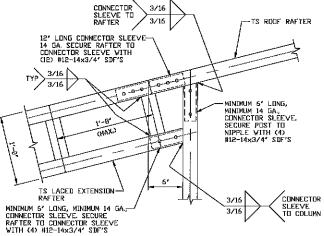
CLIENT: MORTHEDGE	SHT. 14	DVG. ND SK-3		RE∧¹ 0		
PROJECT MGR: VSM	DATE: 4-14-22	SCALE: NTS	JOB	ND: 21204S		
CHECKED BY: PDH		URAL HALL, NC 3'-0" ENCLOSED				
DRAWN BY: LT	_	350 FORUM PARKWAY				
	N(ORTHEDGE STEE	IL, L	LC		

BOX EAVE RAFTER LEAN-TO OPTIONS



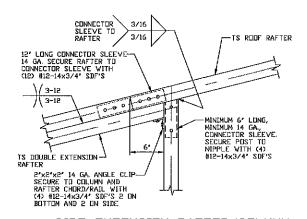
SIDE EXTENSION RAFTER/ COLUMN CONNECTION DETAIL FOR RAFTER SPANS ≤ 10'-0" WITH 35 PSF < TO ≤ 60 PSF SL AND FOR RAFTER SPANS 12'-0" WITH & 35 PSF SL

15 SCALE: NTS



DETAIL FOR RAFTER SPANS 16'-0" < T□ < 24'-0" SCALE: NTS

SIDE EXTENSION RAFTER/COLUMN 15B

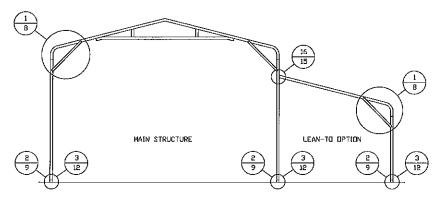


SIDE EXTENSION RAFTER/COLUMN CONNECTION DETAIL FOR RAFTER SPANS 10'-0" < T□ < 16'-0" WITH 35 PSF < TO \le 60 PSF SL AND FOR RAFTER SPANS 12'-0' < TO \le 16'-0' WITH & 35 PSF SL

15A SCALE: NTS

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ENGINEERING AND CONSULTING, INC.	CHECKED BY PDH		.URAL HALL, NC 6'-0" ENCLOSED S	
MOORE AND ASSOCIATES	DRAWN BY: LT		ORTHEDGE STEE 50 FORUM PARK	

BOW EAVE RAFTER LEAN-TO OPTION

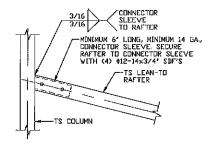


TYPICAL BOW RAFTER LEAN-TO OPTION FRAMING SECTION

SCALE: NTS

MAXIMUM HEIGHT OF A MAIN STRUCTURE SINGLE COLUMN WITH LEAN-TO OR ROOF EXTENSION IS NOT APPLICABLE FOR 35 PSF < TO < 60 PSF SL> MAXIMUM HEIGHT OF A MAIN STRUCTURE SINGLE COLUMN WITH LEAN-TO OR ROOF EXTENSION IS 12'-0' FOR < 35 PSF SL> REFERENCE RAFTER COLUMN CONNECTION DETAILS FOR APPROPRIATE COLUMN HEIGHT AND TUBING SPECIFICATION, NOTE: LEAN-TO COLUMN SPACING MATCHES MAIN BUILDING COLUMN SPACING.

16A



LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS ≤ 10'-0" WITH 35 PSF < TO ≤ 60 PSF SL AND FOR RAFTER SPANS 12'-0" WITH ≤ 35 PSF SL

16

16B

TS COLUMN

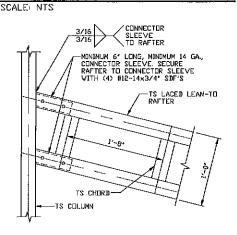
MINIMUM 6' LONG, MINIMUM 14 GA.,
CUNNECTIOR SLEEVE, SECURE
RAFTER TO CONNECTIOR SLEEVE
WITH (4) #12-14x3/4' SDF'S

TS DOUBLE LEAN-TO
RAFTER

3-12

3-12

LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS 10'-0" < TO < 16'-0" WITH 35 PSF < TO < 60 PSF SL AND FOR RAFTER SPANS 12'-0" < TO < 16'-0" WITH < 35 PSF SL



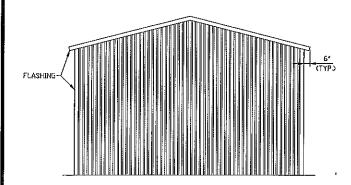
LEAN-TO RAFTER TO RAFTER
COLUMN CONNECTION DETAIL FOR
RAFTER SPANS 16'-0' TO \(\) 24'-0'

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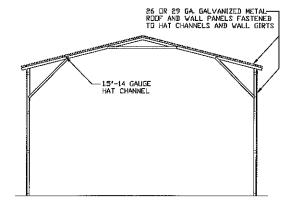
	CLIENT: MORTHEDGE	SHT. 15	DVG. ND: SK-3		REV. 0
	PROJECT MGR VSH	DATE: 4-14-22	SCALE) NTS	JOB	NO: 21204S
,	CHECKED BY: PDH	30'-0"x16'-0" ENCLOSED STRUCTURE			
		RURAL HALL, NC 27045			
	DRAWN BY: LT	350 FORUM PARKWAY			
		N(DRTHEDGE STEE	IL, L	LC

BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



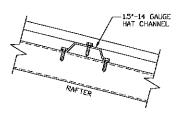
TYPICAL END ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS



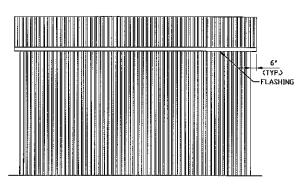
TYPICAL SECTION VERTICAL ROOF/SIDING OPTION

SCALE: NTS



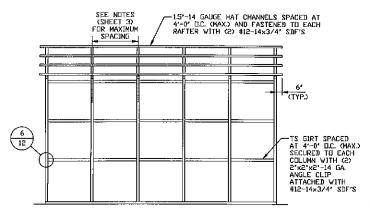
ROOF PANEL ATTACHMENT

(ALTERNATE FOR VERTICAL ROOF PANELS)
SCALE, NTS



TYPICAL SIDE ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS



TYPICAL FRAMING SECTION VERTICAL ROOF/SIDING OPTION

SCALE: NTS

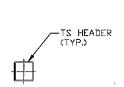
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PR	EUECT MGR: VSM	DATE: 4-14-22	SCALE: NTS	JOB	NO 21204S	
СН	ECKED BY: PDH	RURAL HALL, NC 27045 30'-0"x16'-0" ENCLOSED STRUCTURE				
DR	AVN BY: LT	NORTHEDGE STEEL, LLC 350 FORUM PARKWAY				

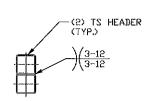
SIDE WALL HEADER OPTIONS

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



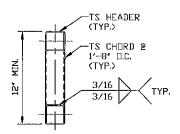
HEADER DETAIL FOR DOOR OPENINGS LENGTHS ≤ 5'-0'

SCALE: NTS



HEADER DETAIL FOR DOOR OPENINGS 5'-0" < LENGTHS ≤ 9'-0" WITH 35 PSF < TD < 60 PSF SL AND 5'-0" < LENGHTS < 10'-0" WITH SL ≤ 35 PSF

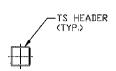
SCALE: NTS



HEADER DETAIL FOR DOOR OPENINGS 9'-0" < LENGTHS < 16'-0" WITH 35 PSF < TO < 60 PSF SL AND 10'-0" < LENGHTS < 16'-0" WITH ≤ 35 PSF SL

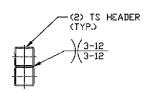
SCALE: NTS

END WALL HEADER OPTIONS



HEADER DETAIL FOR DOOR **DPENINGS LENGTHS ≤ 14'-0"**

SCALE: NTS



HEADER DETAIL FOR DOOR OPENINGS 14'-0" < LENGTHS ≤ 16'-0"

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CLIENT: NORTHEDGE	SHT. 17	DWG. NO SK-3	REV↓ 0	
 PROJECT MGR: VSM	DATE: 4-14-22	SCALE: NTS	JUB_NO: 21204S	
CHECKED BY: PDH	RURAL HALL, NC 27045 30'-0"x16'-0" ENCLOSED STRUCTURE			
DRAWN BY: LT		EL, LLC KWAY		