

STRUCTURAL DESIGN ENCLOSED BUILDING

MAXIMUM 30'-0" WIDE X 15'-0" EAVE HEIGHT-BOX EAVE AND BOW FRAME

15 August 2018 Revision 0 M&A Project No. 18196S

Prepared for:

Shed Central 3648 W. US Highway 421 Wilkesboro, NC 28697

Prepared by:

Moore and Associates Engineering and Consulting, Inc.

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401 S. Main St., Suite 200 Mt. Airy, NC 27030



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INSTALLATION NOTES AND SPECIFICATIONS

- 1. DESIGN IS FOR MAXIMUM 30'-0' WIDE \times 15'-0' EAVE HEIGHT ENCLOSED STRUCTURES.
- 2. DESIGN WAS DONE IN ACCORDANCE WITH THE 2012 NORTH CAROLINA BUILDING CODE (2009 INTERNATIONAL BUILDING CODE).
- 3. DESIGN LOADS ARE AS FOLLOWS:

A) DEAD LOAD = 1.5 PSF B) LIVE LOAD = 12 PSF C) GROUND SNOW LOAD = 25 PSF

- 4 3-SECOND GUST BASIC WIND SPEED (V) = 90 MPH.
- 5. MAXIMUM RAFTER/COLUMN AND END COLUMN SPACING = 5'-0' (UNLESS NOTED OTHERWISE).
- 6. RISK CATEGORY I.
- 7. WIND EXPOSURE CATEGORY B.
- 8. SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/2" x 2 1/2" x 1/2" 14 GAUGE TUBE STEEL (TS) FRAMING MEMBERS (UNLESS NOTED OTHERWISE).
- 9. SIDEWALL COLUMNS AND ENDWALL COLUMNS ARE SIMILAR IN SIZE, UNLESS NOTED OTHERWISE
- 10. AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR HAT CHANNELS, AND COLUMNS (INTERIOR OR END) = 6 INCHES.
- 11. FASTENERS CONSIST OF #12-14x3/4" SELF-DRILLING FASTENER (SDF), USE CONTROL SEAL WASHER WITH EXTERIOR FASTENERS. SPECIFICATIONS APPLICABLE UNLY 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.
- 12. GROUND ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6' OF EACH COLUMN.
- 13. GROUND ANCHORS CONSIST OF #4 REBAR W/ WELDED NUT x 36' LONG IN SUITABLE SOIL CONDITIONS. OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USED IN UNSUITABLE SOILS AS NOTED.

 14. WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE:

SOIL SITE CLASS = D RISK CATEGORY I/II/III

I_E= 1.0 R= 3.25 v= CsM S_{DS}= 1.522

SDI= 0.839

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BOX EAVE FRAME RAFTER STRUCTURE ROLL-UP DOOR (AS APPLICABLE) FLASHING LENGTH VARIES DEPENDING ON NUMBER AND SPACING OF RAFTERS 30'-

TYPICAL SIDE ELEVATION

ROLL-UP DOOR
(AS APPLICABLE)

PERSONNEL DOOR
(AS APPLICABLE)

PERSONNEL DOOR
(AS APPLICABLE)

30'-0" MAXIMUM RAFTER SPAN (W)

TYPICAL END ELEVATION

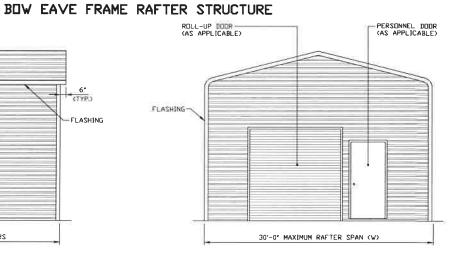
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WINDOW (AS APPLICABLE) --FLASHING LENGTH VARIES DEPENDING ON NUMBER AND SPACING OF RAFTERS



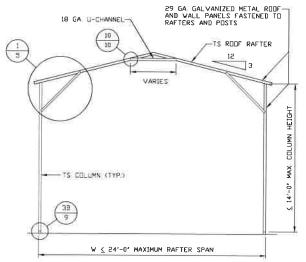
$\frac{\textbf{TYPICAL SIDE ELEVATION}}{\textbf{SCALE: NTS}}$

TYPICAL END ELEVATION SCALE: NTS

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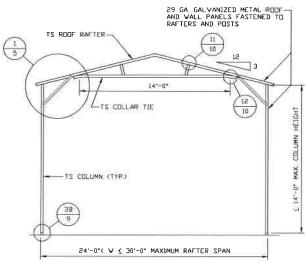
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DRAWN BY: AM		SHED CENTRAL 3648 W. US HIGHWAY 421					

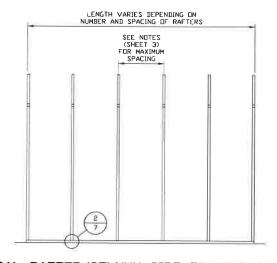


TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS

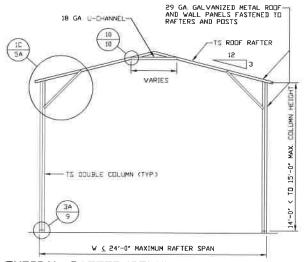


TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
SCALE: NTS

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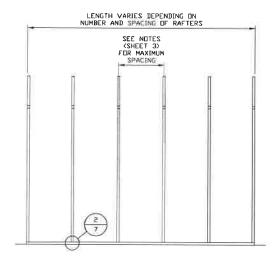
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Т			SHED CENTR	AL	
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П] v	VILKESBORO, NO	C 286	597
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L	PRELIECT MGR VSM	DATE: 8-15-18	SCALE: NTS	JOB	ND 18196S
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TYPICAL RAFTER/COLUMN FRAME SECTION

TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS

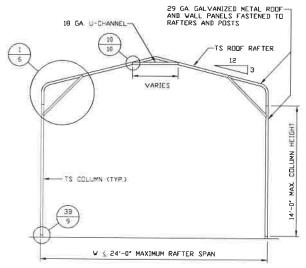


TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
SCALE: NTS

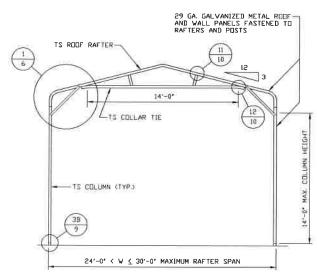
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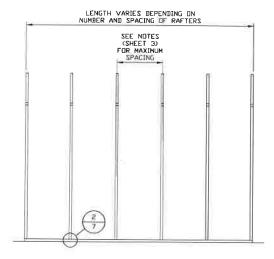
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CLIENT: SHED CENTRAL	SHT. 4A	DWG. ND SK-3	JEEND 18196S	



TYPICAL RAFTER/COLUMN FRAME SECTION



TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS

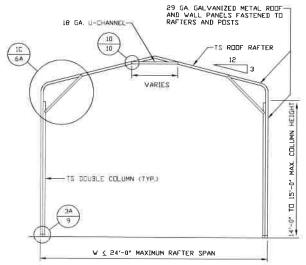


TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION SCALE: NTS

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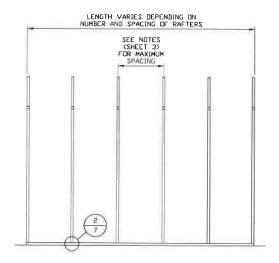
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PROJECT NGR: VSM	DATE: 8-15-18	SCALE: NTS	JOB NO 18196S	
CHECKED BY: PH		NC 28697 D STRUCTURE		
DRAWN BY: AM	SHED CENTRAL 3648 W. US HIGHWAY 421			



 $\frac{\mathsf{TYPICAL}}{\mathsf{SCALE:}} \ \mathsf{RAFTER/COLUMN} \ \ \mathbf{FRAME} \ \ \mathbf{SECTION}$

29 GA. GALVANIZED METAL ROOF-AND WALL PANELS FASTENED TO RAFTERS AND POSTS TS ROOF RAFTER 11 10 IC 6A 12 Э 14"-0" 12 TS COLLAR TIE CDLUMN MAX TS DOUBLE COLUMN (TYP.) 12.-0. E 14.-0. 24'-0" < W < 30'-0" MAXIMUM RAFTER SPAN

TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS

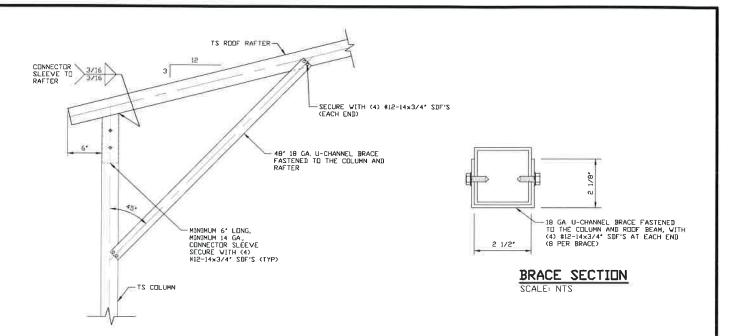


TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION SCALE: NTS

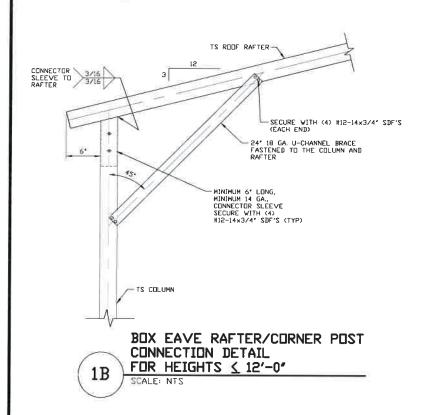
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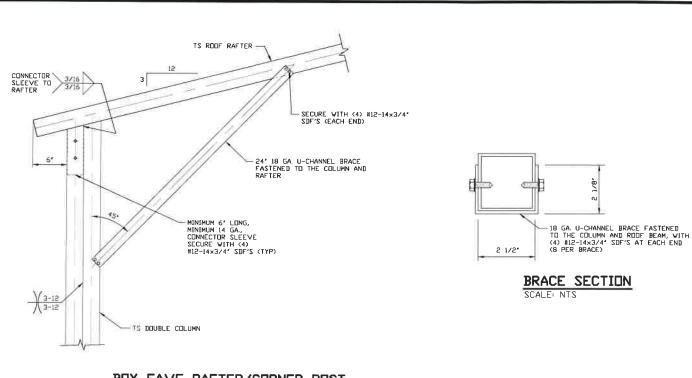
DRAVN BY: AM CHECKED BY: PH		3648 W. US HIGHWAY 421 WILKESBORO, NC 28697 30'-0"x15'-0" ENCLOSED STRUCTURE				
PROJECT NGR: VSN CLIENT: SHED CENTRAL	DATE: 8-15-18 SHT. 4C	SCALE NTS		ND 181965		



BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 12'-0' < TO < 14'-0' SCALE: NTS



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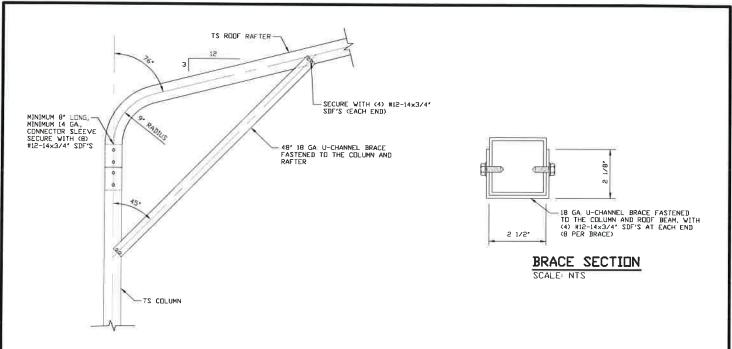


BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 14'-0' < TO < 15'-0' SCALE NTS

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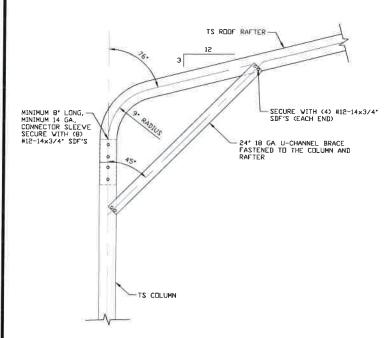
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DRAWN BY: AM	36	48 W. US HIGHW	ΑY	421			
	l W	WILKESBORO, NC 28697					
CHECKED BY: PH	30'-0"x1	30'-0"x15'-0" ENCLOSED STRUCTURE					
PROJECT MGR: VSM	DATE: 8-15-18	SCALE: NTS	JOB	ND 18196S			
CLIENT: SHED CENTRAL	SHT. 5A	DAC NO 2K-3		REV. 0			



BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL

FOR HEIGHTS 12'-0' < TO \(\) 14'-0'



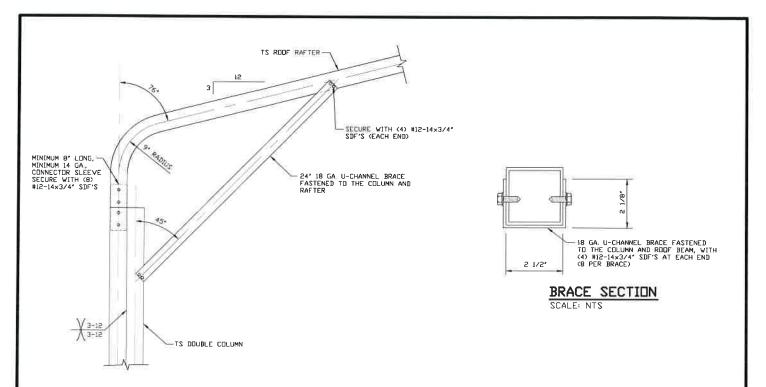
BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS & 12'-0'

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			SHED CENTR				
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		1	WILKESBORO, NC 28697				
•	CHECKED BY: PH	30'-0"x	30'-0"x15'-0" ENCLOSED STRUCTURE				
	PROJECT MGR: VSM	DATE: 8-15-18	SCALE: NTS	JUB	ND 18196S		
	CLIENT: SHED CENTRAL	SHT. 6	DWG. ND: SK-3		REV: 0		



BUX EAVE RAFTER/CORNER POST CONNECTION DETAIL

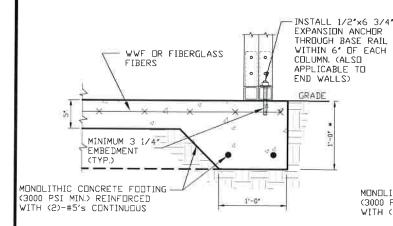
FOR HEIGHTS 14'-0" < TO \(\) 15'-0"

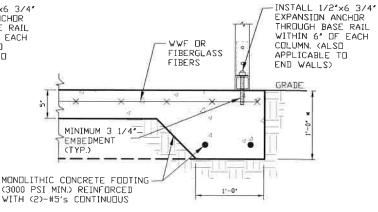
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BASE RAIL ANCHORAGE OPTIONS





CONCRETE MONOLITHIC SLAB BASE RAIL ANCHURAGE

SCALE: NTS MINIMUM ANCHOR EDGE DISTANCE IS 4". * COORDINATE WITH LOCAL CODES/ORD,

GENERAL NOTES

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

CONCRETE:

CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS.

COVER OVER REINFORCING STEEL

FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318:

3' IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH OR WEATHER, AND 1 1/2' ELSEWHERE.

REINFORCING STEEL:

THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE 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
- BÉ FIELD BENT

HELIX ANCHOR NOTES:

- 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.
- 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
- 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.

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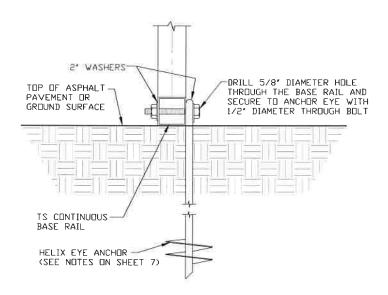
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CONCRETE SLAB BASE RAIL ANCHORAGE 2B SCALE: NTS

MINIMUM ANCHOR EDGE DISTANCE IS 4".

* COORDINATE WITH LOCAL CODES/ORD.

BASE RAIL ANCHORAGE OPTIONS



GROUND BASE HELIX ANCHORAGE

SCALE: NTS

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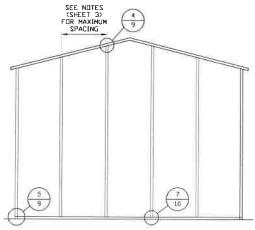
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SHED CENTRAL 3648 W. US HIGHWAY 421 WILKESBORO, NC 28697 30'-0"x15'-0" ENCLOSED STRUCTURE

PROJECT MGR VSM SCALE NTS DATE: 8-15-18 SHT. 7A DVG. ND SK-3 CLIENT: SHED CENTRAL

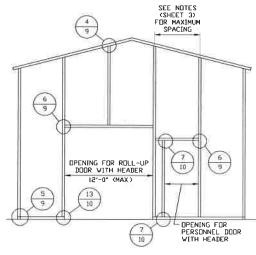
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BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



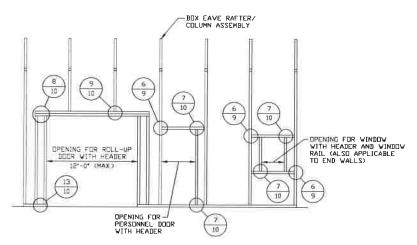
TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

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TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

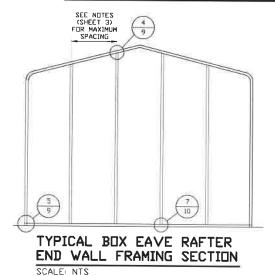
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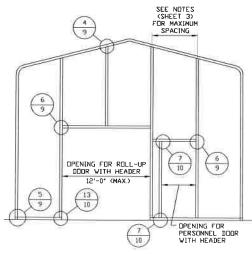
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	PROJECT NGR: VSN	DATE: 8-15-18	SCALE: NTS	Jo	B ND 18196S	
((#)	CHECKED BY: PH	WILKESBORO, NC 28697 30'-0"x15'-0" ENCLOSED STRUCTURE				
	DRAWN BY: AM	3	421			

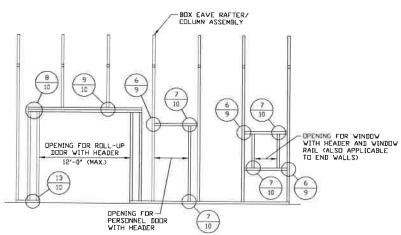
BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS





TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

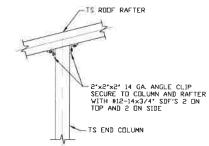
SCALE: NTS

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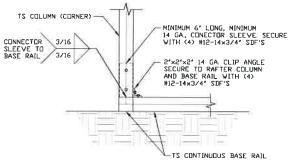
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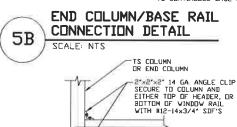
PROJECT MGR. VSM DATE: 8-15-18 SCALE: NTS JEB NO. 181	236
PROJECT NGR VSM DATE 8-15-18 SCALE NTS JETR NO. 181	
WILKESBORO, NC 28697 CHECKED BY: PH 30'-0"x15'-0" ENCLOSED STRUCTUR	Ē
SHED CENTRAL DRAWN BY: AM 3648 W. US HIGHWAY 421	

CONNECTION DETAILS TS DOUBLE COLUMN MINIMUM 6' LDNG, MINIMUM 14 GA, CONNECTOR SLEEVE SECURE WITH (4) BASE RAIL TS CONTINUOUS TS CONTINUOUS POST/BASE RAIL CONNECTION DETAIL SCALE: NTS CONNECTOR SLEEVE SLEEVE TO BASE RAIL (TYP) TS CONTINUOUS TS CONTINUOUS TS CONNECTION DETAIL SCALE: NTS

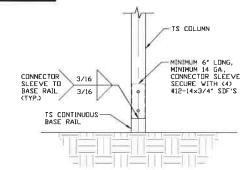




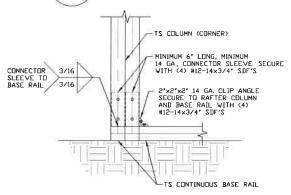










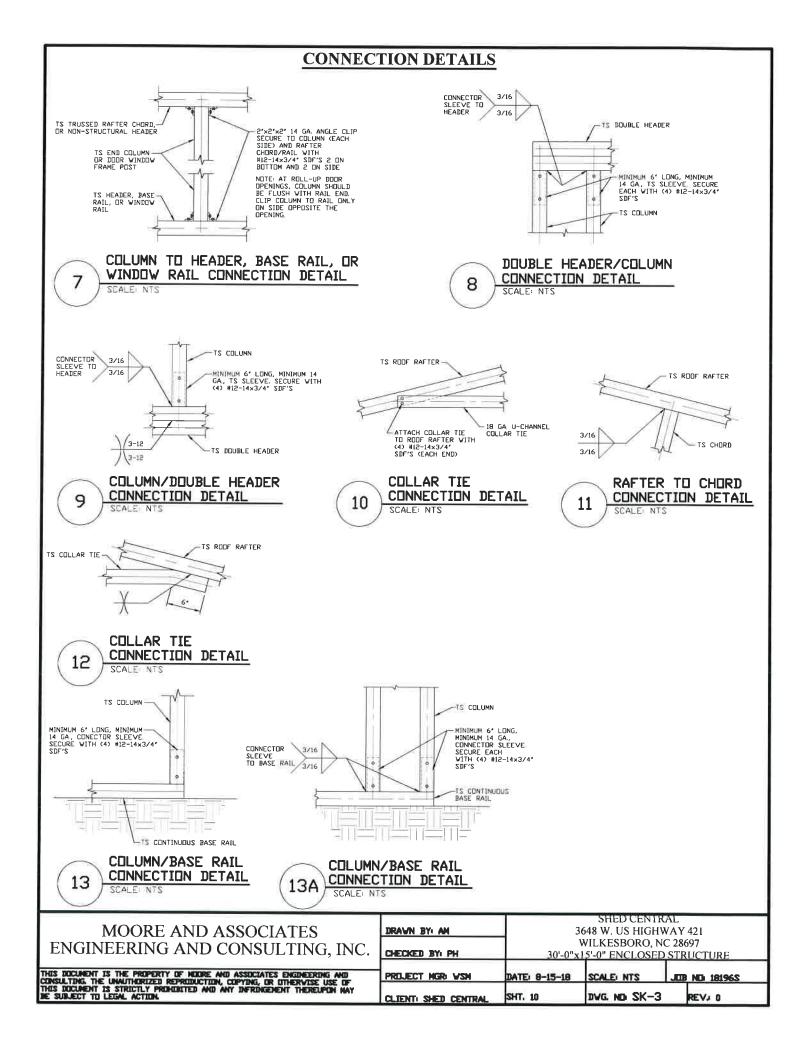


5A END COLUMN/BASE RAIL CONNECTION DETAIL SCALE: NTS

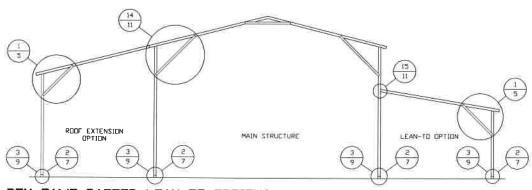
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			OTHERVISE USE OF
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	CLIENT: SHED CENTRAL	SHT. 9	DWG. ND SK-3	REV. 0
_	PROJECT MGR: WSM	DATE: 8-15-18	SCALE: NTS J	IB ND 18196S
	CHECKED BY PH		/ILKESBORO, NC 2 5'-0" ENCLOSED S	
	DRAWN BY: AM	36	SHED CENTRAL 48 W. US HIGHWA	

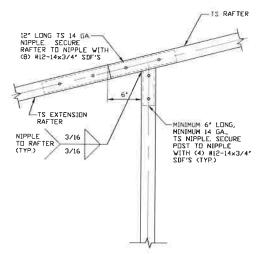


BOX EAVE RAFTER LEAN-TO OPTIONS

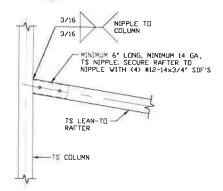


TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)

SCALE: NTS MAXIMUM WIDTH OF ROOF EXTENSION AND LEAN-TO OPTION IS 12'-0'

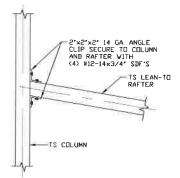


ROOF EXTENSION RAFTER/CORNER POST DETAIL FOR WIDTHS < 12'-0" 14 SCALE: NTS



LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS & 12'-0" SCALE NTS

15A



LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS ≤ 12'-0' SCALE: NTS

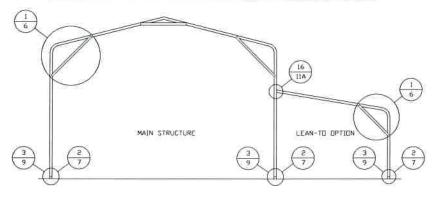
15B

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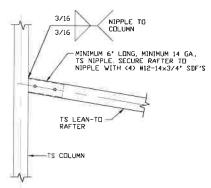
	CLIENT: SHED CENTRAL	SHT. 11	DWG. ND: SK-3	REV. 0
_	PROJECT NGR: VSN	DATE: 8-15-18	SCALE: NTS	JUB ND 18196S
	CHECKED BY: PH	I	/ILKESBORO, NC 5'-0" ENCLOSED S	
	DRAWN BY: AM		48 W. US HIGHWA	AY 421
			SHED CENTRA	i.

BOW EAVE RAFTER LEAN-TO OPTIONS

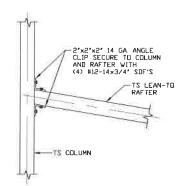


TYPICAL BOW EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION

SCALE: NTS
MAXIMUM WIDTH OF LEAN-TO OPTION IS 12'-0'.



LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS & 12'-0'

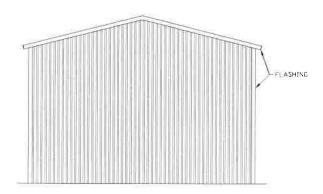


LEAN-TO RAFTER
TO RAFTER POST
CONNECTION DETAIL
FOR WIDTHS & 12'-0'
SCALE: NTS

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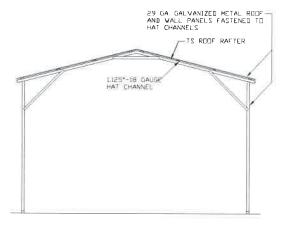
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VERTICAL ROOF/SIDING OPTION



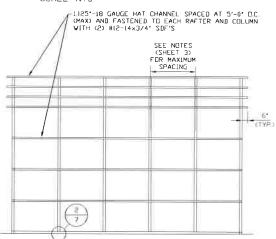
TYPICAL END ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS



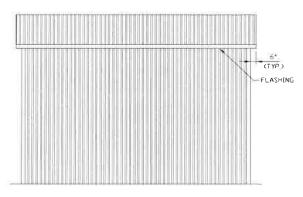
TYPICAL SECTION VERTICAL ROOF/SIDING OPTION

SCALE: NTS



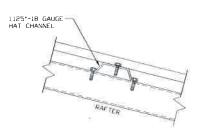
TYPICAL FRAMING SECTION VERTICAL ROOF/SIDING OPTION

SCALE: NTS



TYPICAL SIDE ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS

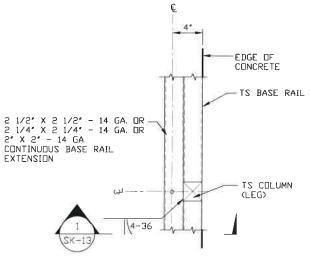


PANEL ATTACHMENT (ALTERNATE FOR VERTICAL ROOF PANELS) SCALE: NTS

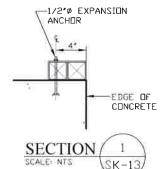
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ı	ENGINEERING AND CONSULTING, INC.	CHECKED BY: PH	ļ
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Ü	SUBJECT TO LEGAL ACTION.	CLIENT: SHED CENTRAL	SHT.

CLIENT: SHETI CENTRAL	SHT. 12	DVG. ND SK-3	B REV. 0	
PROJECT MGR: VSH	DATE: 8-15-18	SCALE: NTS	JDB ND 18196S	
CHECKED BY: PH	30'-0"X	15'-0" ENCLOSE	DSTRUCTURE	-
CHECKER BY BU		WILKESBORO,		
DRAWN BYLAM	3648 W. US HIGHWAY 421			
	- Tr	SHED CENT	RAI	_

ADDITIONAL BASE RAIL ANCHORAGE OPTION



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



SK-13

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CLIENT: SHED CENTRAL	SHT. 13	DAGE NO 2K-3		REV: 0
PROJECT NGR VSN	DATE: 8-15-18	SCALE: NTS	JOB	ND 18196S
CHECKED BY: PH		VILKESBORO, N 5'-0" ENCLOSED		
DRAWN BY: AM	4 "	SHED CENTR 348 W. US HIGHV	VAY	