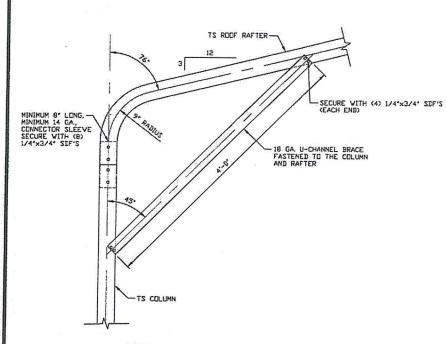


BRACE SECTION
SCALE: NTS

BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL
FOR HEIGHTS 12'-0" < TO < 16'-0"

1B



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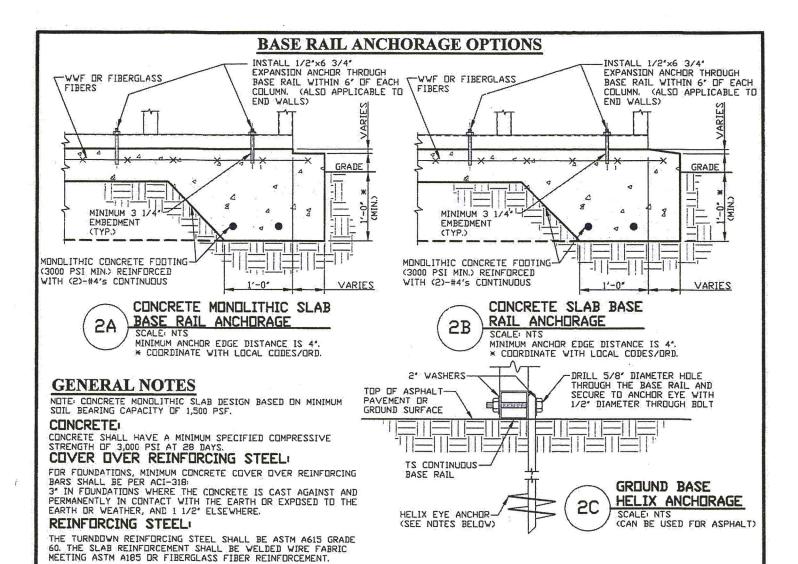
BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL

FOR HEIGHTS & 12'-0"

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	CLIENTI SBSI	SHT. 6A	DVG. ND SK-3		REVJ 7			
1	PROJECT MGR VSM	DATE: 12-14-18	SCALE: NTS	JOB	ND: 181565/18290S			
	CHECKED DY: PDH	The second secon	MOUNT AIRY 20'-0" ENCLOS					
	DRAWN BY: AT	P.O. BOX 1287,						



REINFORCEMENT MAY BE BENT IN THE SHOP OR THE FIELD PROVIDED

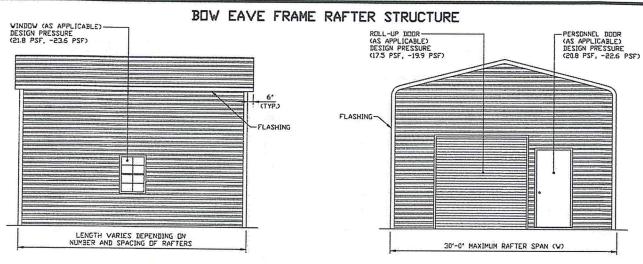
- 1. REINFORCEMENT IS BENT COLD.
 2. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS.
 3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT
- BE FIELD BENT.

HELIX ANCHOR NOTES:

- I 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 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: AT	STEEL BUILDINGS AND STRUC P.O. BOX 1287, MOUNT AIRY, NC 270 30'-0"x20'-0" ENCLOSED STR		30	
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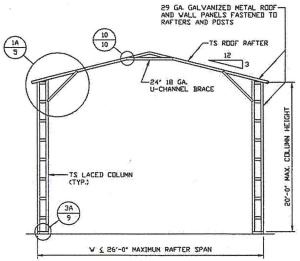
TYPICAL SIDE ELEVATION

SCALE: NTS

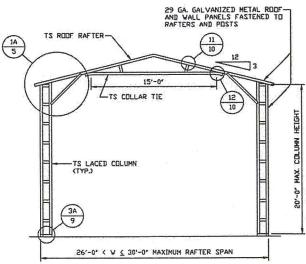
TYPICAL END ELEVATION SCALE: NTS



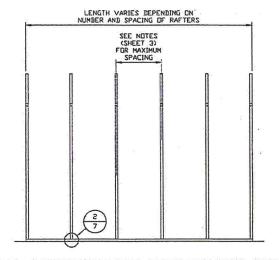
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ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH		MOUNT AIRY, 20'-0" ENCLOS				
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TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN FRAME SECTION



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION SCALE: NTS



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ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH	10 PM 10 10 10 10 10 10 10 10 10 10 10 10 10	MOUNT AIRY, NC 27030 30'-0"x20'-0" ENCLOSED STRUCTURE				
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INSTALLATION NOTES AND SPECIFICATIONS

- 1. DESIGN IS FOR MAXIMUM 30'-0' WIDE x 20'-0' EAVE HEIGHT ENCLOSED STRUCTURES.
- 2. DESIGN WAS DONE IN ACCORDANCE WITH THE 2017 FLORIDA BUILDING CODE (FBC) 6TH EDITION, 2018 NORTH CAROLINA BUILDING CODE, 2006 INTERNATIONAL BUILDING CODE (IBC), 2009 IBC, 2012 IBC AND 2015 IBC.
- 3. DESIGN LOADS ARE AS FOLLOWS:

A) DEAD LOAD

= 1.5 PSF

B) LIVE LOAD

= 12 PSF

C) GROUND SNOW LOAD

- = 30 PSF (< 26'-0"), 35 PSF (26'-0" < W < 30'-0")
- (UNBALANCED SNOW LOADS DUE TO DRIFTING HAVE NOT BEEN EVALUATED.)
- 4. 3-SECOND GUST ULTIMATE WIND SPEED (V_{ULT}) 105 TO 145 MPH (NOMINAL WIND SPEED 82 TO 112 MPH): MAXIMUM RAFTER/COLUMN AND END COLUMN SPACING = 5.0 FEET (UNLESS NOTED OTHERWISE).
- 5. END WALL COLUMNS (POST) ARE EQUIVALENT TO SIDE WALL POSTS 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' 14 GAUGE TUBE STEEL (TS) FRAMING MEMBERS (UNLESS NOTED OTHERWISE).
- 9. AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR HAT CHANNELS, AND COLUMNS (INTERIOR OR END) = 8 INCHES.
- 10. FASTENERS CONSIST OF 1/4*×3/4* 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.
- 11. GROUND ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6' OF EACH COLUMN.
- 12. GROUND ANCHORS CONSIST OF #4 REBAR W/ WELDED NUT × 36' LONG IN SUITABLE SOIL CONDITIONS. OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USED IN UNSUITABLE SOILS AS NOTED.
- 13. WIND FORCES GOVERN OVER SEISMIC FORCES, SEISMIC PARAMETERS ANALYZED ARE:

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

R= 3.25

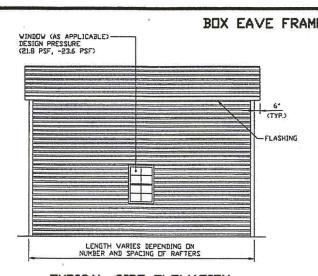
 $I_E = 1.0$ V= C_SW

 $S_{DS} = 2.039$ $S_{Di} = 1.258$

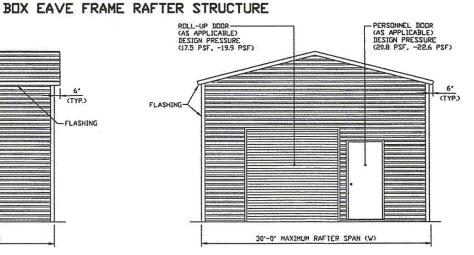
14. VINDOW AND DOOR DESIGN PRESSURES ARE APPLICABLE TO THE STATE OF FLORIDA ONLY.



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TYPICAL SIDE ELEVATION
SCALE: NTS



TYPICAL END ELEVATION
SCALE: NTS



		STEEL BU	II DINGS AND	STRUC	TURES INC		
MOORE AND ASSOCIATES	DRAVN BY: AT	0,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	P.O. BOX 1287,				
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DRAWING INDEX

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SHEET 1
            PE SEAL COVER SHEET (1 DF 2)
SHEET 1A
            PE SEAL COVER SHEET (2 OF 2)
SHEET 2
            DRAWING INDEX
SHEET 3
            INSTALLATION NOTES AND SPECIFICATIONS
SHEET 3A
            TYPICAL SIDE AND END ELEVATIONS
SHEET 3B
            TYPICAL SIDE AND END ELEVATIONS
SHEET 4
            TYPICAL RAFTER/COLUMN FRAME AND SIDE FRAMING SECTION (BOX EAVE STRUCTURE)
SHEET 4A
            TYPICAL RAFTER/COLUMN FRAME AND SIDE FRAMING SECTION (BOX EAVE STRUCTURE)
SHEET 4B
            TYPICAL RAFTER/COLUMN FRAME AND SIDE FRAMING SECTION (BOX EAVE STRUCTURE)
SHEET 4C
            TYPICAL RAFTER/COLUMN FRAME AND SIDE FRAMING SECTION (BOW EAVE STRUCTURE)
SHEET 4D
            TYPICAL RAFTER/COLUMN FRAME AND SIDE FRAMING SECTION (BOW EAVE STRUCTURE)
SHEET 4E
            TYPICAL RAFTER/COLUMN FRAME AND SIDE FRAMING SECTION (BOW EAVE STRUCTURE)
SHEET 5
            COLUMN CONNECTION DETAILS (BOX EAVE STRUCTURE)
SHEET 5A
            COLUMN CONNECTION DETAILS (BOX EAVE STRUCTURE)
SHEET 6
            COLUMN CONNECTION DETAILS (BOW EAVE STRUCTURE)
SHEET 6A
            COLUMN CONNECTION DETAILS (BOW EAVE STRUCTURE)
SHEET 7
            BASE RAIL ANCHORAGE OPTIONS
SHEET 8
            TYPICAL END WALL AND SIDE WALL FRAMING SECTIONS
SHEET 8A
            TYPICAL END WALL AND SIDE WALL FRAMING SECTIONS
SHEET 9
            CONNECTION DETAILS
SHEET 10
            CONNECTION DETAILS
SHEET 11
            LEAN-TO OPTIONS
SHEET 11A
            LEAN-TO OPTIONS
SHEET 12
            VERTICAL ROOF/SIDING OPTION END AND SIDE ELEVATION AND SECTION
SHEET 13
            OPTIONAL HEADER
SHEET 14
            ADDITIONAL BASE RAIL ANCHORAGE OPTION
SHEET 15
            OPTIONAL BASE RAIL ON GRADE APPLICATION
SHEET 16
            OPTIONAL BASE RAIL ON TIMBER BEAM
            OPTIONAL BASE RAIL ON TIMBER BEAM
SHEET 17
            WITH SOIL NAIL
SHEET 18
            OPTIONAL CONCRETE STRIP FOOTING
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STRUCTURAL DESIGN ENCLOSED BUILDING

MAXIMUM 30'-0" WIDE X 20'-0" EAVE HEIGHT- BOX EAVE FRAME

14 December 2018 Revision 7 M&A Project No. 16062S/16155S/16207S/17155S/17200S/18068S/18156S/18290S

Prepared for:

Steel Buildings and Structures, Inc. P.O. Box 1287 Mt. Airy, NC 27030

Prepared by:

Moore and Associates Engineering and Consulting, Inc.

1009 East Avenue North Augusta, SC 29841

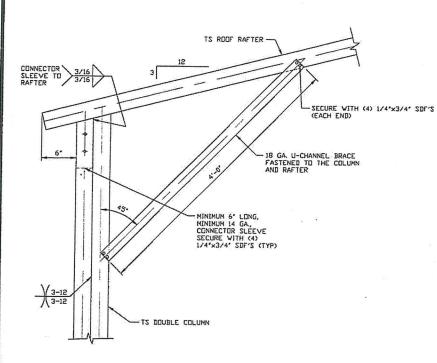
401 S. Main St., Suite 200 Mount Airy, NC 27030

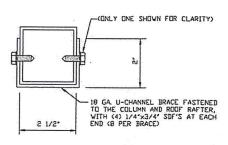






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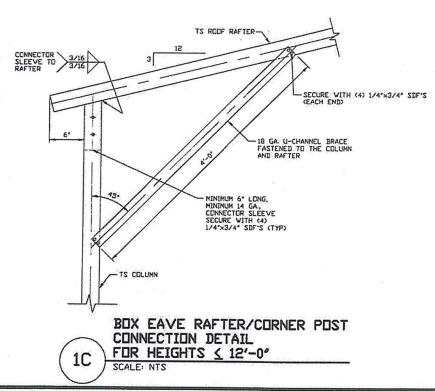




BRACE SECTION
SCALE: NTS

BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL

FOR HEIGHTS 12'-0" < TO < 16'-0"

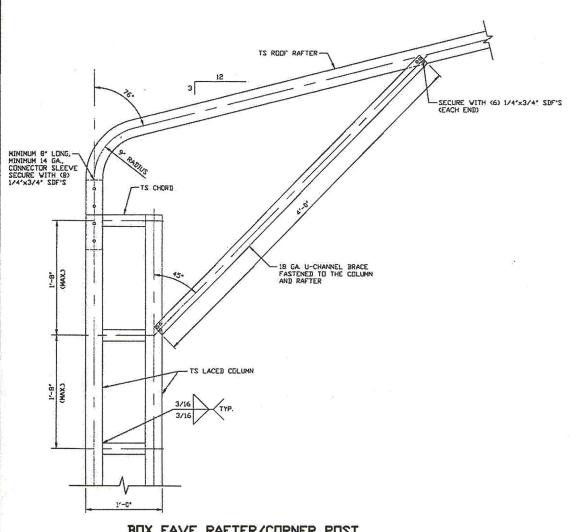




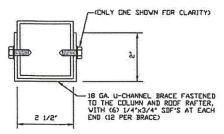
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PROJECT MGR: VSM	DATE: 12-14-18	SCALE NTS	JUB	ND 181565/18290S		
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DRAWN BY: AT	STEEL BUILDINGS AND STRUCTURES, INC. P.O. BOX 1287,					



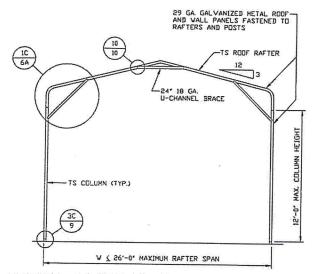
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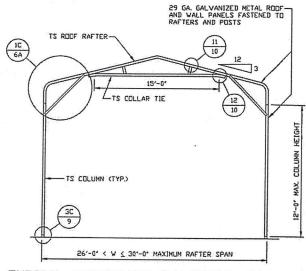
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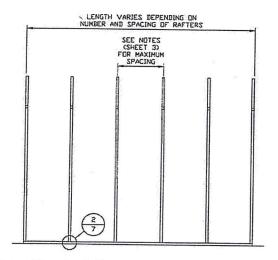
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TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS



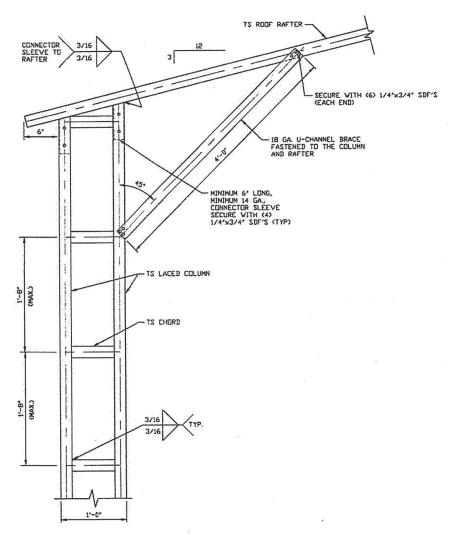
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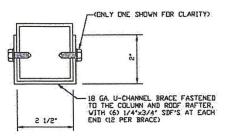
TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION SCALE: NTS



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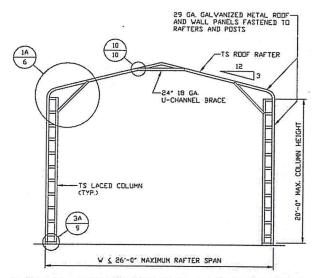
BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 16'-0" < TO < 20'-0"



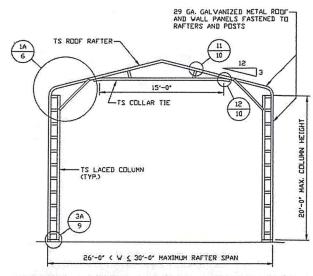
BRACE SECTION
SCALE NTS



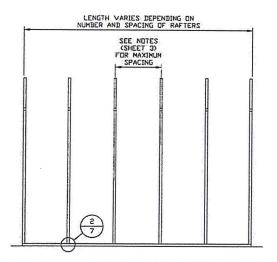
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TYPICAL RAFTER/COLUMN FRAME SECTION



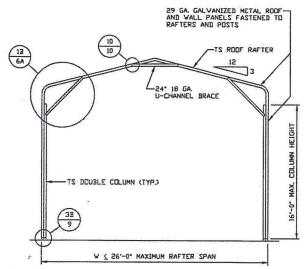
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SCALE: NTS



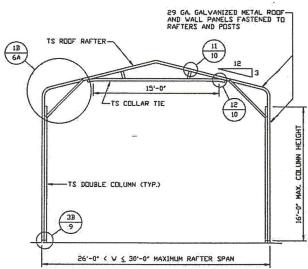
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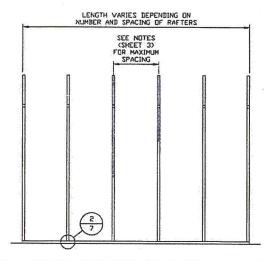
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TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: NTS

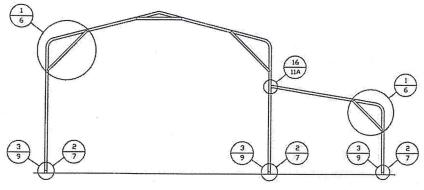


TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION SCALE: NTS

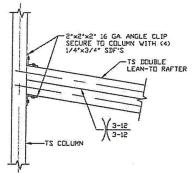


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BOW EAVE RAFTER LEAN-TO OPTIONS

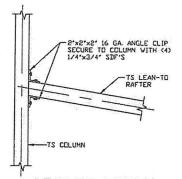


TYPICAL BOW EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION SCALE: NTS



LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS 12'-0" < TO \(\leftarrow\) 16'-0"

16A



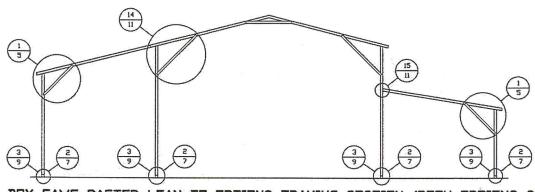
LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS ≤ 12'-0"

16B

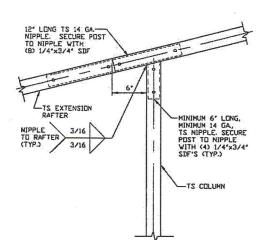


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ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH	The second secon	MOUNT AIRY 20'-0" ENCLOS		3073 V T
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BOX EAVE RAFTER LEAN-TO OPTIONS

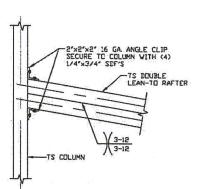


TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)



SIDE EXTENSION RAFTER/
CORNER POST DETAIL

SCALE: NTS



RAFTER POST CONNECTION DETAIL FOR WIDTHS 12'-0' < TO \(\) 16'-0'

15A

E'x2'x2' 16 GA. ANGLE CLIP SECURE TO COLUMN VITH (4) 1/4'x3/4' SDF'S TS LEAN-TO RAFTER

LEAN-TO RAFTER
TO RAFTER POST
CONNECTION DETAIL
FOR WIDTHS
SCALE NTS

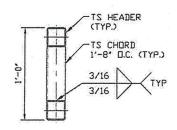


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CI TENTI SPOT	SHT. 11	DVG NO SK	-3	REV. 7
PROJECT NGR VSN	DATE: 12-14-18	SCALE) NTS	JOB	ND 181565/182905
CHECKED BY PDH		MOUNT AIRY 20'-0" ENCLOS		
DRAWN BY: AT		P.O. BOX	1287,	CTURES, INC.

OPTIONAL HEADER



HEADER DETAIL FOR DOOR

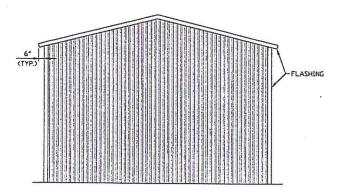
OPENINGS 12'-0" < LENGTH < 20'-0"

SCALE: NTS



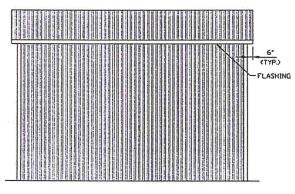
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BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



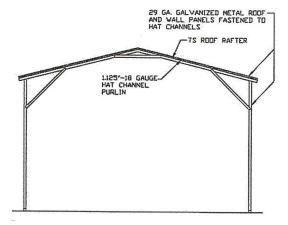
TYPICAL END ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS



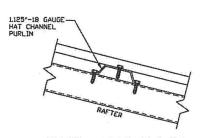
TYPICAL SIDE ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS

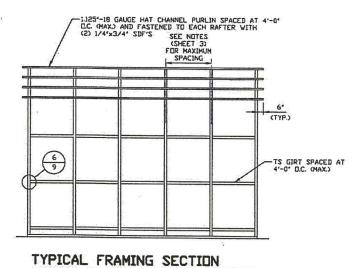


TYPICAL SECTION VERTICAL ROOF/SIDING OPTION

SCALE: NTS



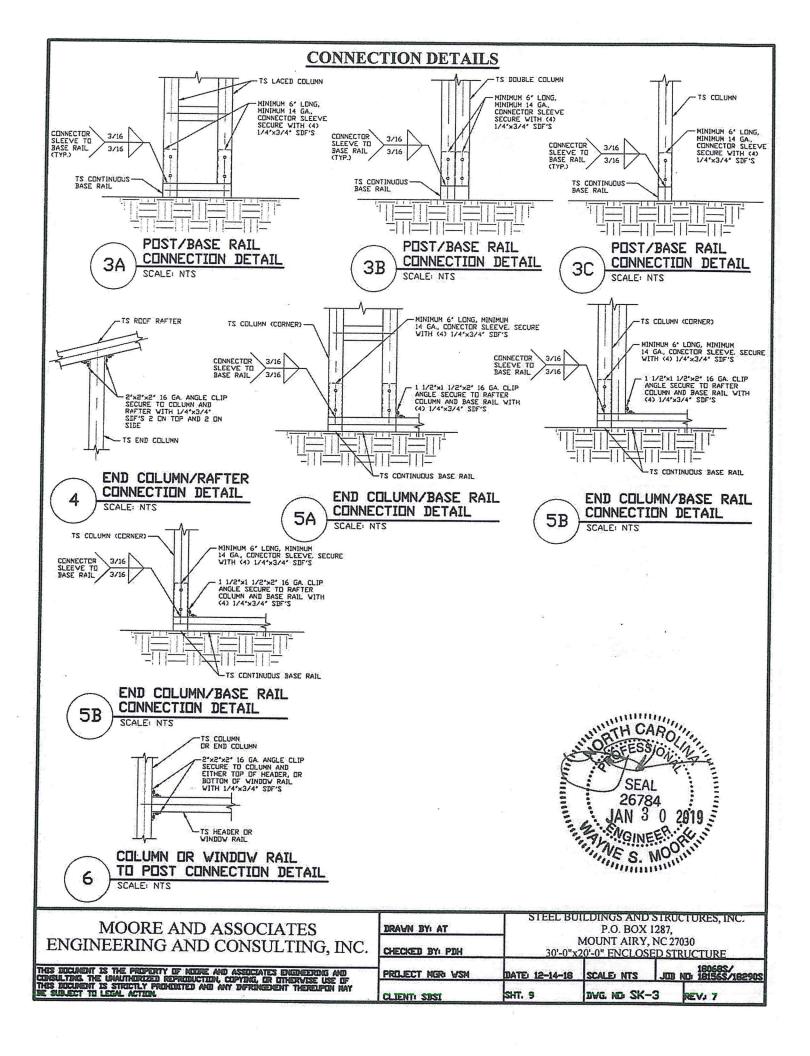
PANEL ATTACHMENT (ALTERNATE FOR VERTICAL ROOF PANELS) SCALE: NTS



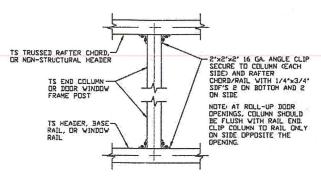
SCALE: NTS

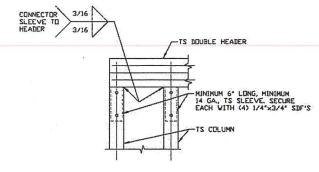


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CONNECTION DETAILS

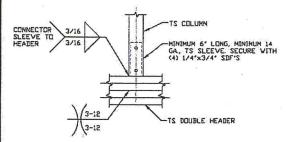


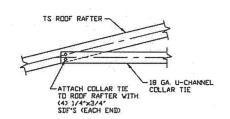


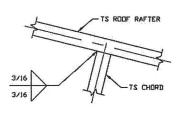
7 COLUMN TO HEADER, BASE RAIL, OR WINDOW RAIL CONNECTION DETAIL

SCALE: NTS

8 DOUBLE HEADER/COLUMN CONNECTION DETAIL
SCALE: NTS



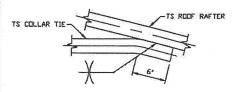




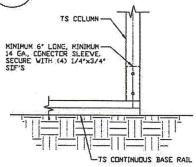
9 COLUMN/DOUBLE HEADER
CONNECTION DETAIL
SCALE: NTS

10 COLLAR TIE CONNECTION DETAIL
SCALE: NTS

RAFTER TO CHORD CONNECTION DETAIL
SCALE: NTS



12 COLLAR TIE CONNECTION DETAIL
SCALE: NTS





COLUMN/BASE RAIL
CONNECTION DETAIL
SCALE NTS

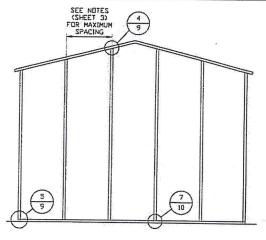
13

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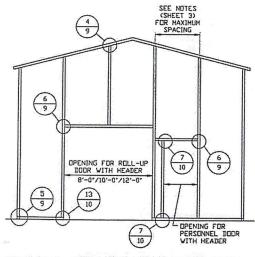
	CLIENT) SBSI	SHT. 10	DVG. NO SK-	-3	REVJ 7	
Washing Line	PROJECT NGR: VSN	DATE: 12-14-18	SCALE NTS	JOB	180685/ 181565/182905	
	CHECKED BY: PDH		MOUNT AIRY 20'-0" ENCLOS			
TANK KANDON	DRAWN BY: AT		P.O. BOX 1287,			

BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



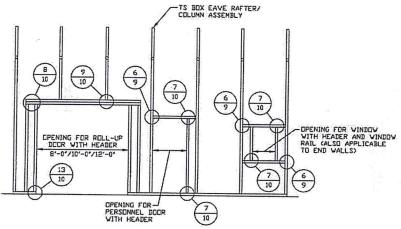
TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE: NTS

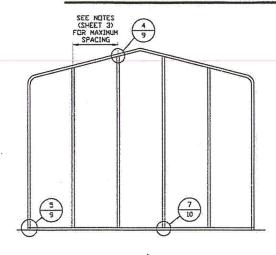


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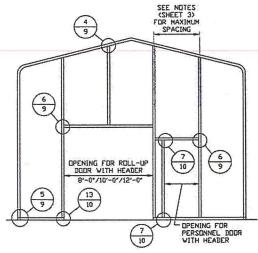
	DRAWN BY: AT	STEEL BUILDINGS AND STRUCTURES, INC. P.O. BOX 1287, MOUNT AIRY, NC 27030 30'-0"x20'-0" ENCLOSED STRUCTURE					
	CHECKED BY: PDH						
	PROJECT MGR WSN	DATE: 12-14-18	SCALE: NTS	JOB	180695/ ND 181565/182903		
	CLIENTI SBSI	SHT. 8	DAG NO 2K-3		REV. 7		

BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



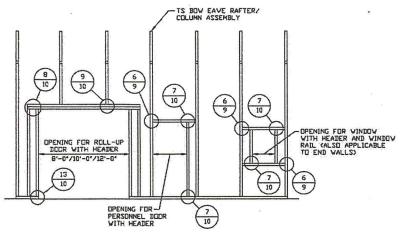
TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BUX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS

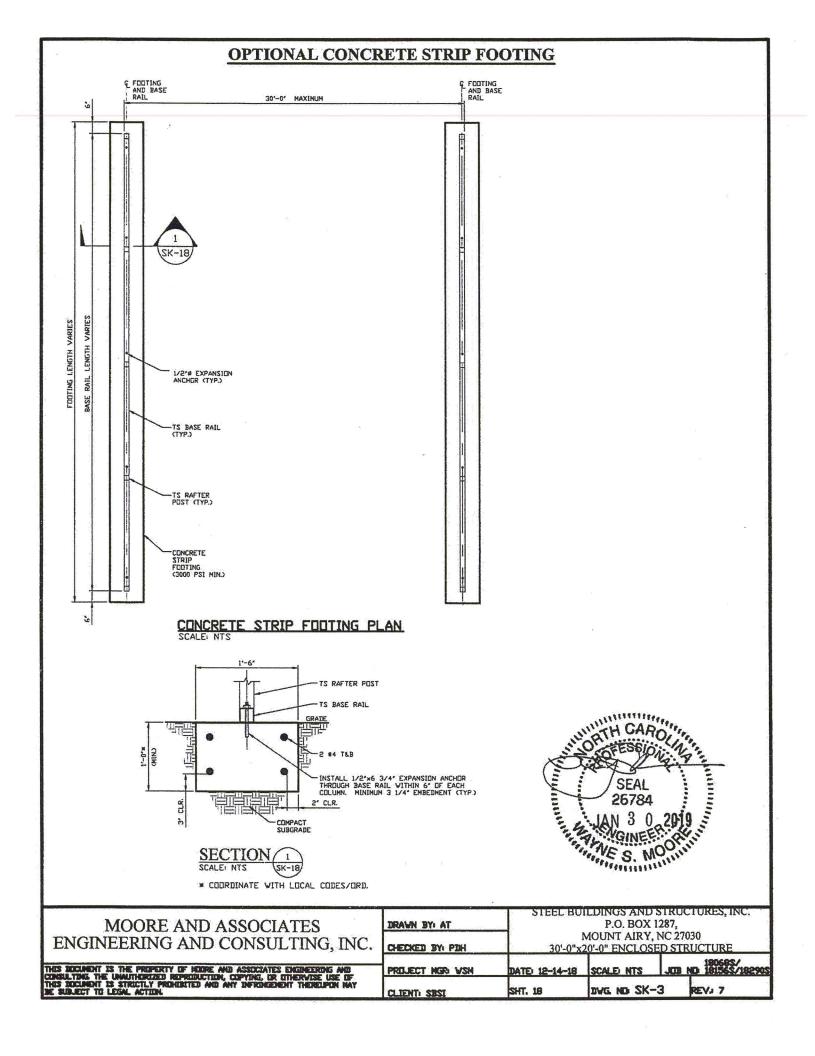


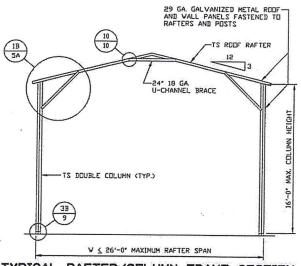
TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE: NTS

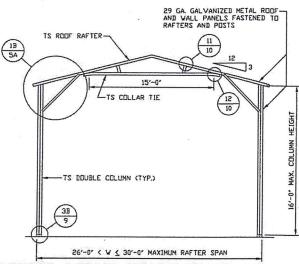


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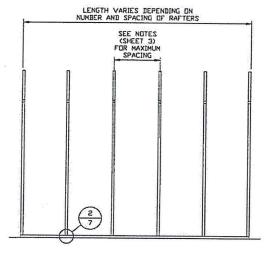




TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS



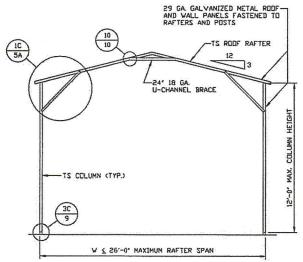
TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS



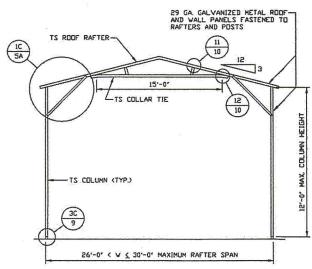
TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
SCALE: NTS



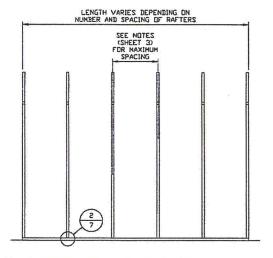
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TYPICAL RAFTER/COLUMN FRAME SECTION



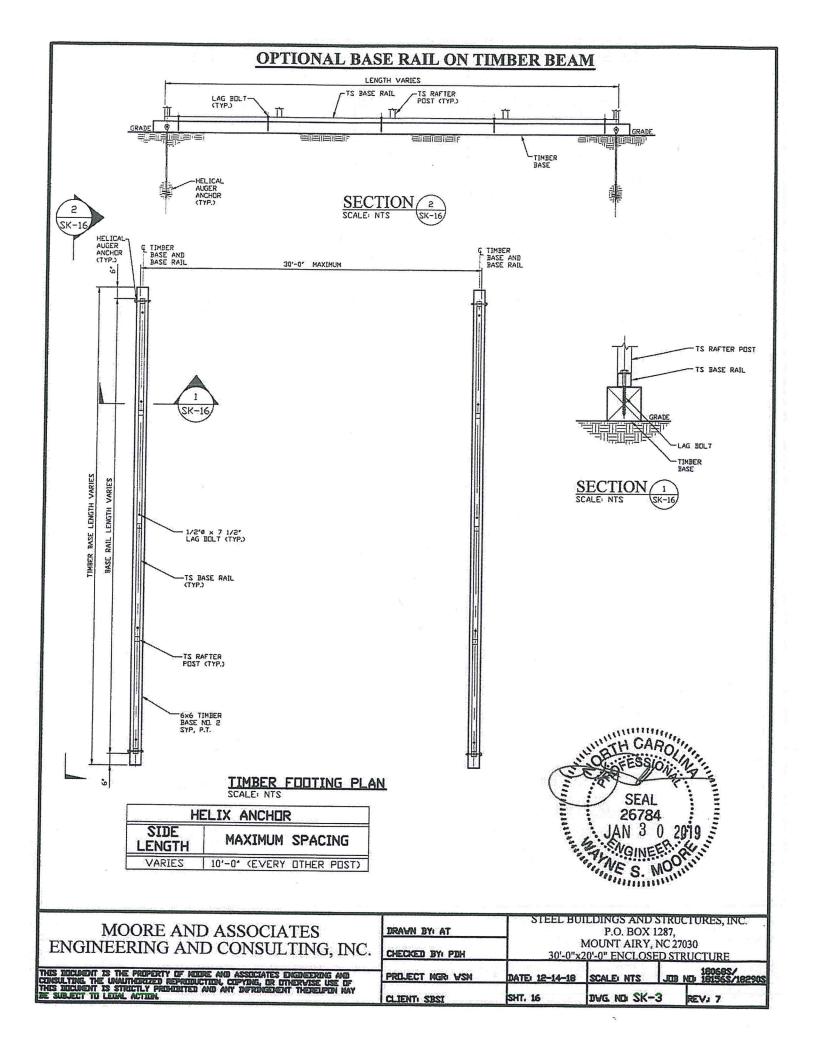
TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS

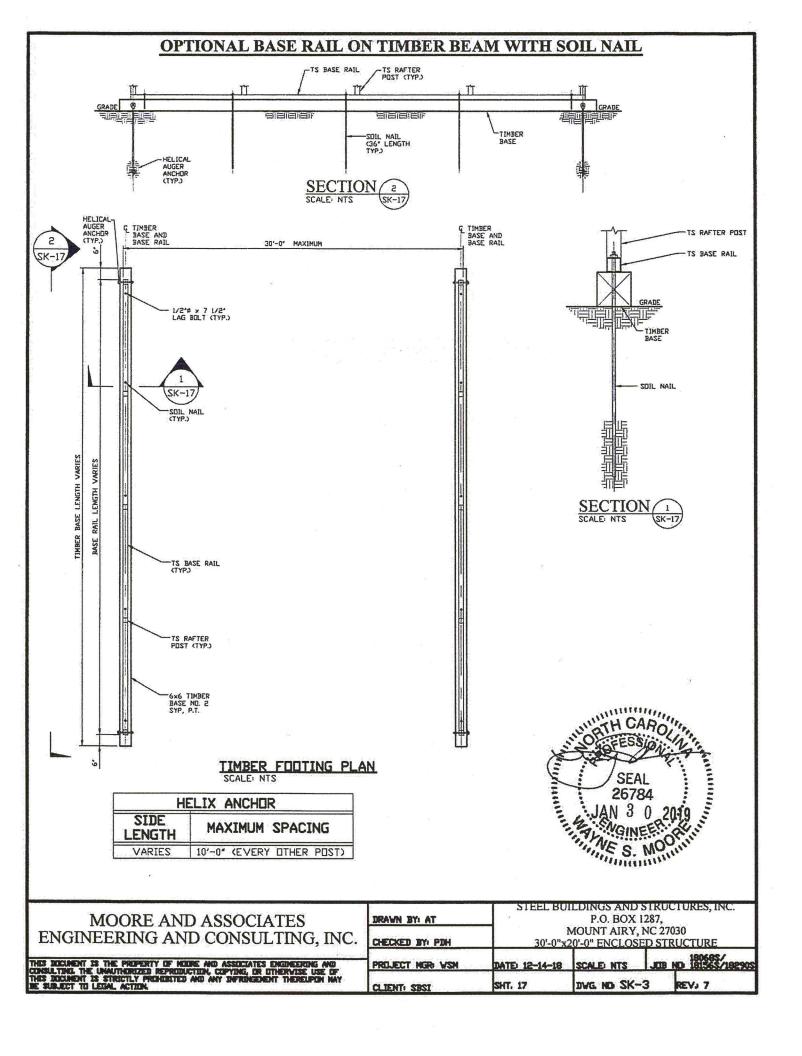


TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION SCALE NTS

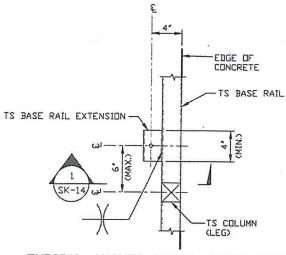


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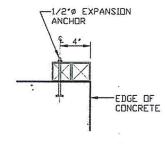




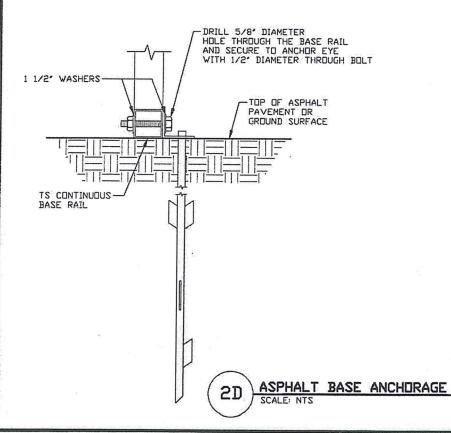
ADDITIONAL BASE RAIL ANCHORAGE OPTION



TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE



SECTION 1 SCALE NTS SK-14





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