

Steel Buildings & Structures Inc.

800 Piedmont Triad West Drive

P.O. Box 1287

Mount Airy, NC 27030 Phone: 877-272-8276

Email: sbspermitting@sbsihq.com

Enclosed are the certified plans for the building that you have purchased. Please be aware that some pages in the packet may not pertain to your building, as these are **generic** drawings and not site specific. Please do not remove any pages from this packet, as some counties will consider them as being tampered with and may not accept them. If at any time you have any questions or if you need any help during the permitting process, please feel free to contact us at 877-272-8276 and ask to speak with the Permitting & Engineering Department.

Thank you for choosing Steel Buildings and Structures, Inc.

Lexi Valentine Permitting & Engineering Dept

Phone: 877-272-8276 ext. 142 Direct/Text: 336-515-9627



STRUCTURAL DESIGN ENCLOSED BUILDING

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

14 February 2020 Revision 8 M&A Project No. 16062S/16155S/16207S/17155S/17200S/18068S/18156S/18290S/20019S

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 Mt. Airy, NC 27030







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MOORE AND A ENGINEERING AND	ASSOCIATES CONSULTING INC	WN BY: LT	N	LDINGS AND STRUCTURES, INC. P.O. BOX 1287, 1OUNT AIRY, NC 27030
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SHEET 21

OPTIONAL CONCRETE STRIP FOOTING



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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), 2019 IBC, 2012 IBC, 2015 IBC AND 2018 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')

NOTE: (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):
- 5. MAXIMUM RAFTER/COLUMN AND END COLUMN SPACING = 5.0 FEET (UNLESS NOTED OTHERWISE).
- 6. END WALL COLUMNS (POSTS) ARE EQUIVALENT TO SIDE WALL POSTS IN SIZE AND SPACING (UNLESS NOTED OTHERWISE).
- 7. RISK CATEGORY I.
- 8. WIND EXPOSURE CATEGORY B.
- 9. 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).
- 10. AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR HAT CHANNELS, AND COLUMNS (INTERIOR OR END) = 8 INCHES.
- 11. FASTENERS CONSIST OF 1/4*x3/4* 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.
- 12. GROUND ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6' OF EACH COLUMN
- 13. STANDARD GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 REBAR W/ WELDED NUT x 36° LONG AND MAY BE USED IN SUITABLE SOILS.

 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

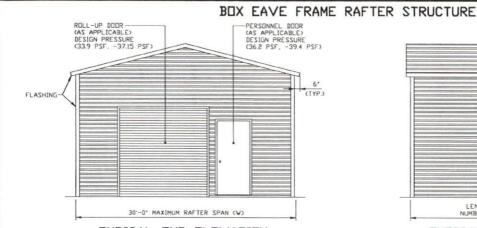
R = 3.25 $I_E = 1.0$ R = 2.25 $V = C_2 W$

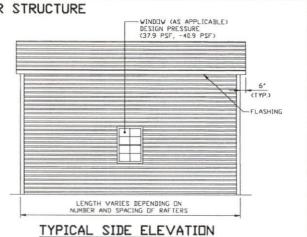
S_{D1}= 1.258 g

15. WINDOW AND DOOR DESIGN PRESSURES ARE APPLICABLE TO THE STATE OF FLORIDA DNLY.



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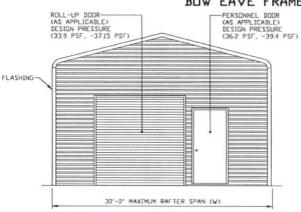


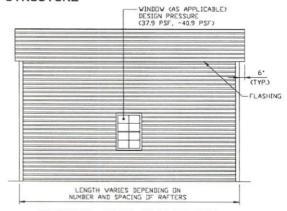
TYPICAL END ELEVATION

SCALE: NTS

SCALE: NTS

BOW EAVE FRAME RAFTER STRUCTURE





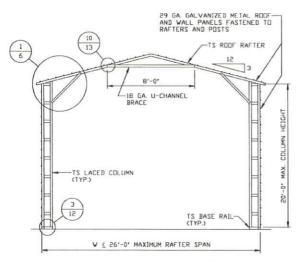
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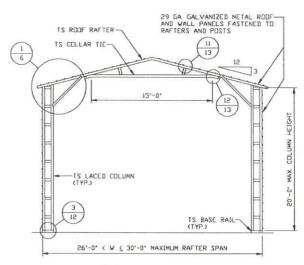
TYPICAL SIDE ELEVATION SCALE: NTS



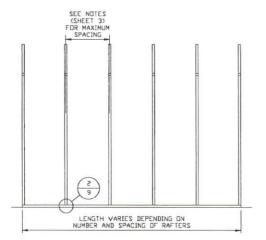
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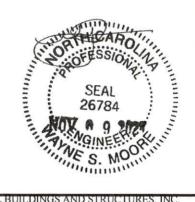
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SCALE: NTS



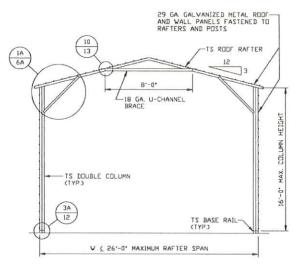
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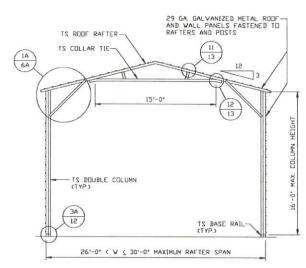
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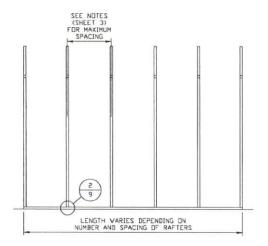
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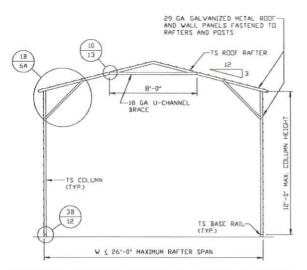
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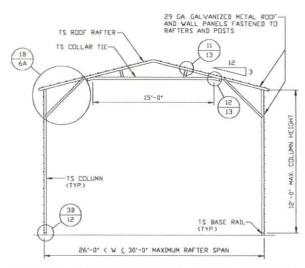
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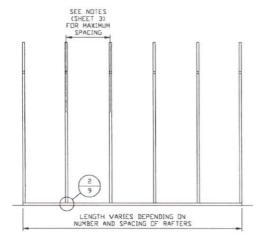
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TYPICAL RAFTER/COLUMN FRAME SECTION
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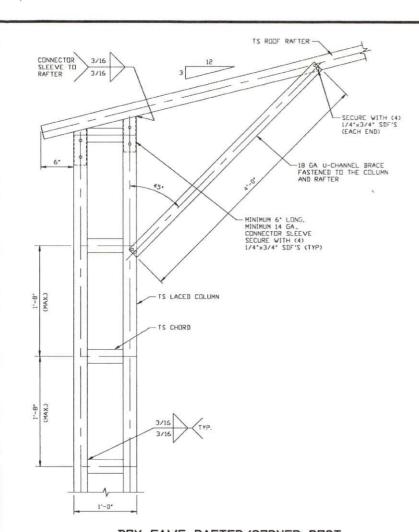
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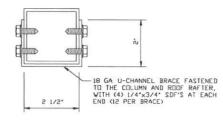


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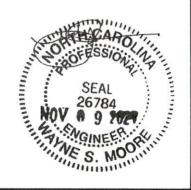
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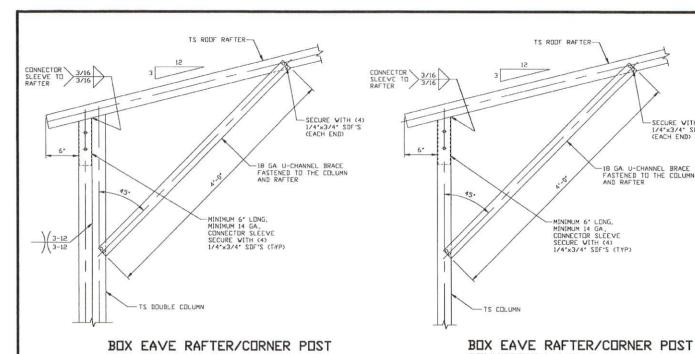


BRACE SECTION SCALE: NTS

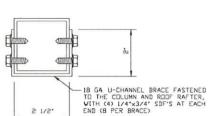




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CONNECTION DETAIL FOR HEIGHTS 12'-0" < TO ≤ 16'-0" 1A SCALE: NTS



BRACE SECTION
SCALE: NTS



-SECURE VITH (4) 1/4"x3/4" SDF'S (EACH END)

-18 GA. U-CHANNEL BRACE FASTENED TO THE COLUMN AND RAFTER

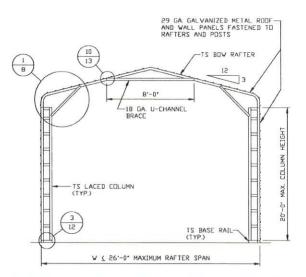
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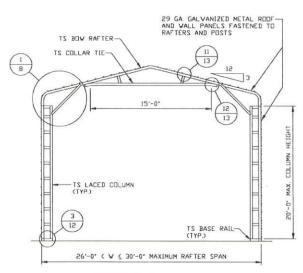
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FOR HEIGHTS ≤ 12'-0"

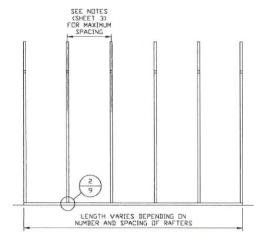
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TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS



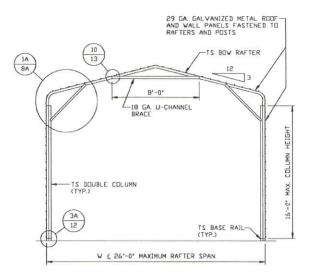
TYPICAL RAFTER/COLUMN FRAME SECTION



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION SCALE: NTS

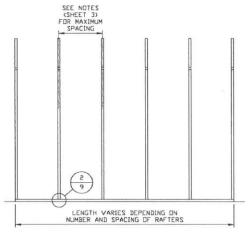


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TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: NTS

TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS

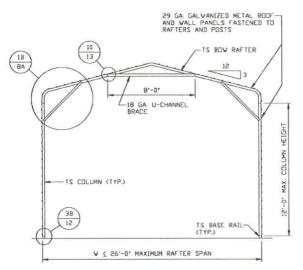


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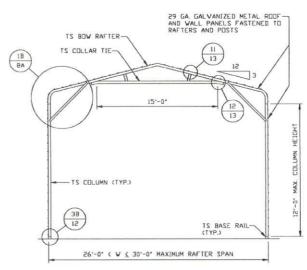
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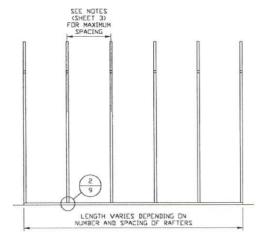
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TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: NTS



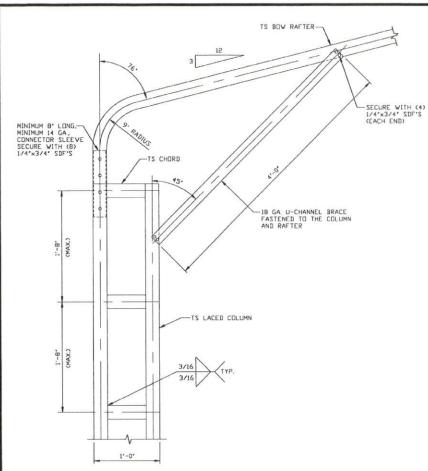
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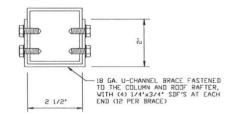


TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION SCALE: NTS



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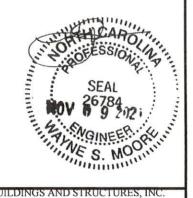




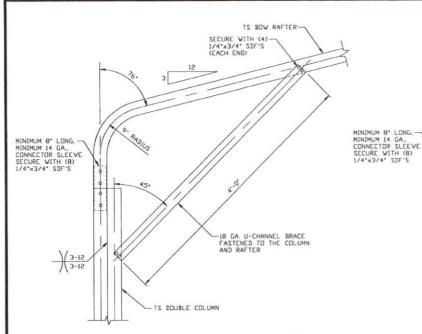
BRACE SECTION SCALE: NTS

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

1



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

SECURE WITH (4)
1/4'x3/4' SDF'S
(EACH END)

12

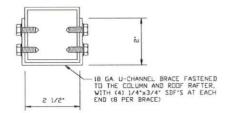
18 GA. U-CHANNEL BRACE
FASTENED TO THE COLUMN

AND RAFTER

TS COLUMN

BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS \(\) 12'-0'

1B) SCALE: NTS

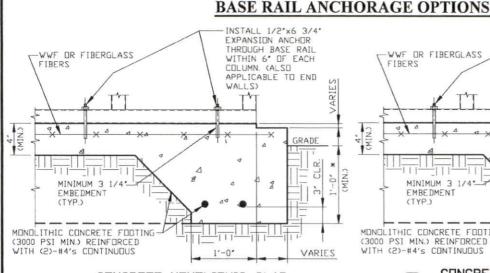


BRACE SECTION

1A



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EXPANSION ANCHOR THROUGH BASE RAIL WITHIN 6' OF EACH WWF OR FIBERGLASS FIBERS COLUMN. (ALSO APPLICABLE TO END WALLS) VARI GRADE CLR. CMIN. 1,-0, MINIMUM 3 1/4 9 å EMBEDMENT (TYP) MONOLITHIC CONCRETE FOOTING (3000 PSI MIN.) REINFORCED WITH (2)-#4's CONTINUOUS VARIES

INSTALL 1/2'x6 3/4"

2

CONCRETE MONOLITHIC SLAB BASE RAIL ANCHURAGE

MINIMUM ANCHOR EDGE DISTANCE IS 4' * COORDINATE WITH LOCAL CODES/ORD.

GENERAL NOTES

NOTE: CONCRETE MONDLITHIC 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 AGIS 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:

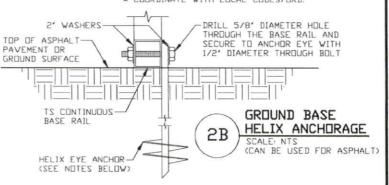
- 1. REINFORCEMENT IS BENT COLD.
 2. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS.
 3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT

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 LODSE 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.



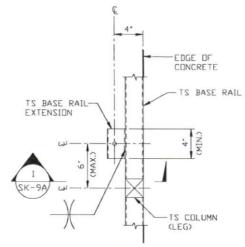
MINIMUM ANCHOR EDGE DISTANCE IS 4" * COORDINATE WITH LOCAL CODES/ORD.





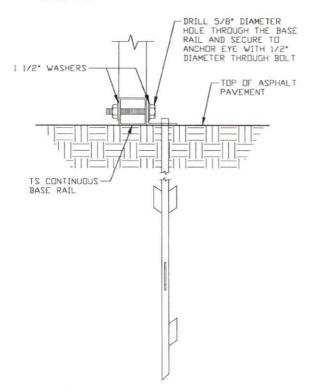
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	PROJECT MGR: WSM	DATE: 2-14-20		JOB NO 18068S 18156S/18290S/20019S

ADDITIONAL BASE RAIL ANCHORAGE OPTION

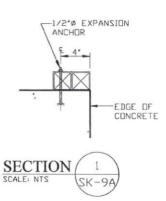


TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE

SCALE: NTS



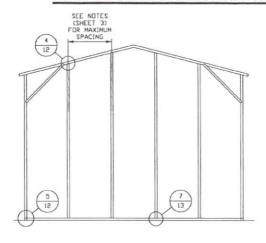
ASPHALT BASE ANCHORAGE





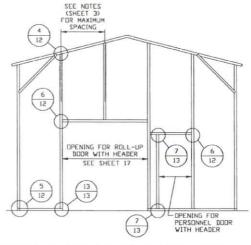
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ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH		MOUNT AIRY, 1 0'-0" ENCLOSE		7.57
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BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



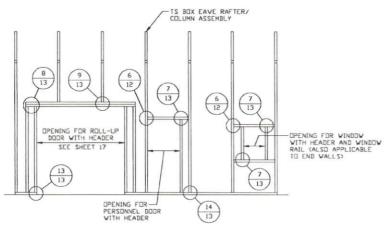
TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS



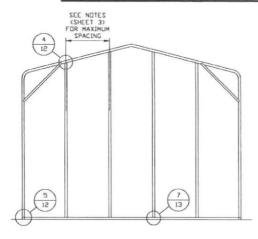
TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE: NTS



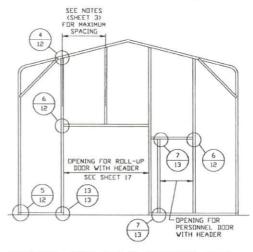
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BOW EAVE RAFTER END WALL AND SIDE WALL OPENINGS



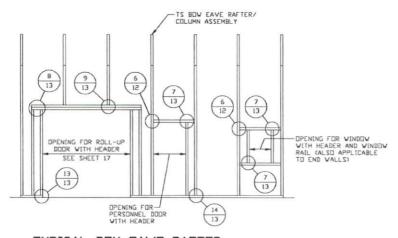
TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



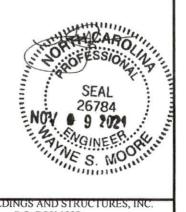
TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS

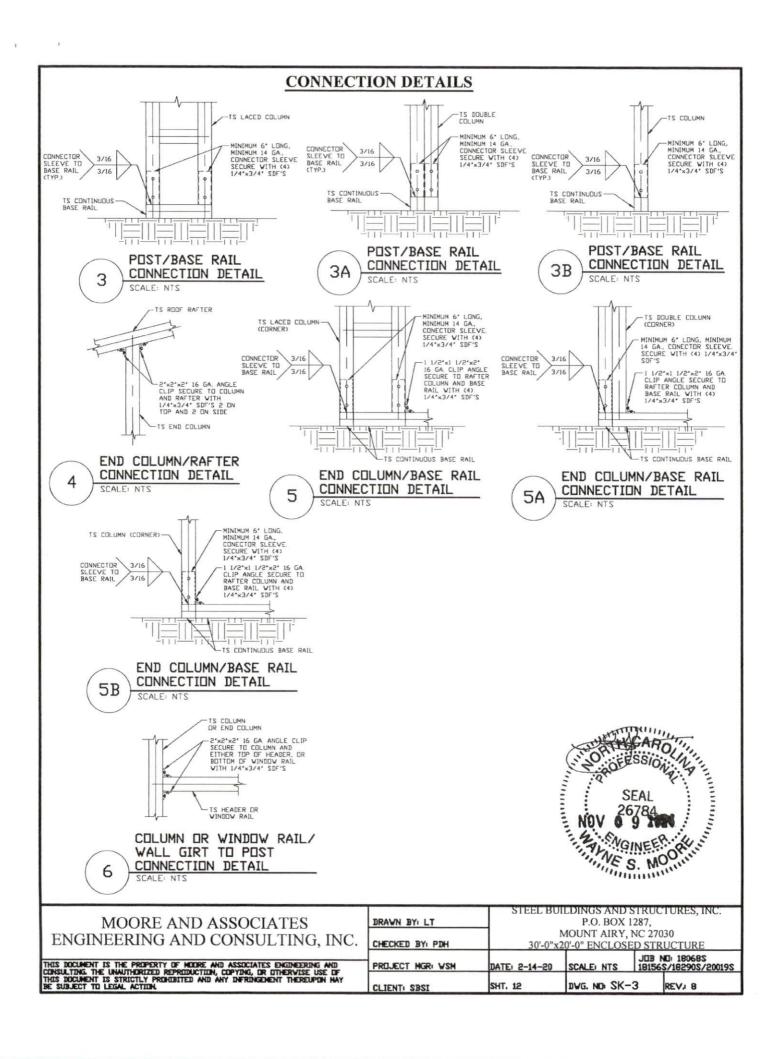


TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

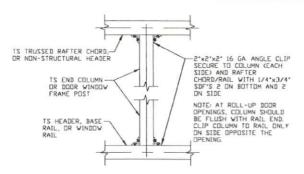
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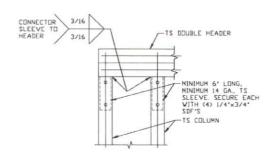


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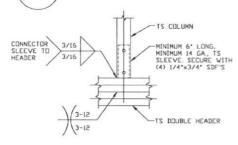
CONNECTION DETAILS

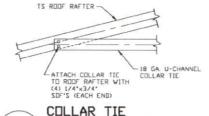


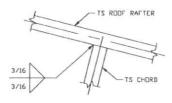


COLUMN TO HEADER, BASE RAIL, OR WINDOW RAIL CONNECTION DETAIL

8 DOUBLE HEADER/COLUMN CONNECTION DETAIL
SCALE: NTS



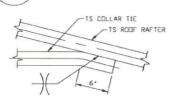


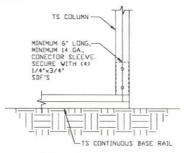


COLUMN/DOUBLE HEADER
CONNECTION DETAIL
SCALE: NTS

10 CONNECTION DETAIL
SCALE: NTS

RAFTER TO CHORD CONNECTION DETAIL
SCALE: NTS



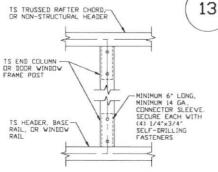


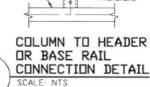
12 CONNECTION DETAIL

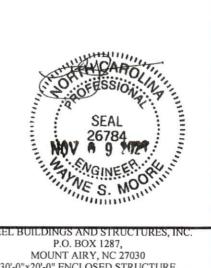
9

14

COLUMN/BASE RAIL
CONNECTION DETAIL





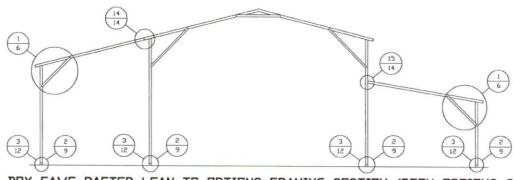


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CHECKED BY PDH	5 2.453	MOUNT AIRY, NC 27030 30'-0"x20'-0" ENCLOSED STRUCTURE					
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BOX EAVE RAFTER LEAN-TO OPTIONS



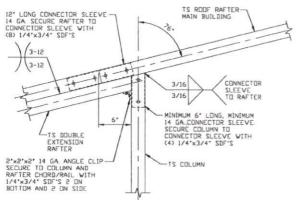
TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)

SCALE: NTS

MAXIMUM WIDTH OF SINGLE MEMBER (RAFTER) ROOF EXTENSION LEAN-TO IS 12'-0".

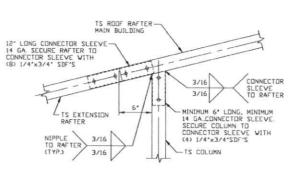
MAXIMUM WIDTH OF DOUBLE MEMBER RAFTER ROOF EXTENSION LEAN-TO IS 16'-0".

FOR SHARED COLLUMN HEIGHTS REFERENCE RAFTER COLUMN CONNECTION DETAILS FOR APPROPRIATE COLUMN HEIGHT AND TUBING SPECIFICATIONS.

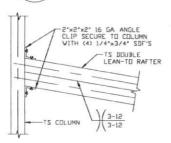


SIDE EXTENSION RAFTER/
COLLUMN DETAIL FOR RAFTER

SPANS 12'-0' < TO \(\) 16'-0'



SIDE EXTENSION RAFTER/COLUMN DETAIL FOR
RAFTER SPANS & 12'-0'
SCALE: NTS



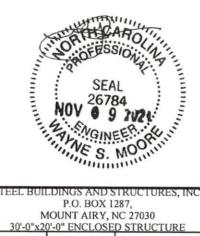
LEAN-TO RAFTER
TO RAFTER POST
CONNECTION DETAIL
FOR WIDTHS
12'-0' < TO \(\lefta \) 16'-0'

15

2'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 \(12'-0'')
SCALE NIS

(15A)

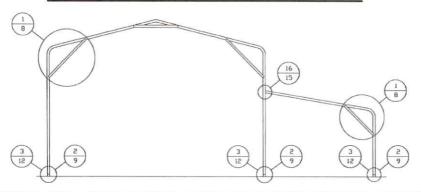


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BOW EAVE RAFTER LEAN-TO OPTIONS



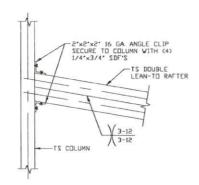
TYPICAL BOW EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION

SCALE: NTS

MAXIMUM WIDTH DF SINGLE MEMBER (RAFTER) ROOF EXTENSION LEAN-TO IS 12'-0".

MAXIMUM WIDTH OF DOUBLE MEMBER RAFTER ROOF EXTENSION LEAN-TO IS 16'-0".

FOR SHARED COLUMN HEIGHTS REFERENCE RAFTER COLUMN CONNECTION DETAILS FOR APPROPRIATE COLUMN HEIGHT AND TUBING SPECIFICATIONS.



LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS 12'-0" < T□ < 16'-0" SCALE: NTS

16

-2'x2'x2' 16 GA ANGLE CLIP SECURE TO COLUMN WITH (4) 1/4'x3/4' SDF'S TS LEAN-TO RAFTER TS COLUMN

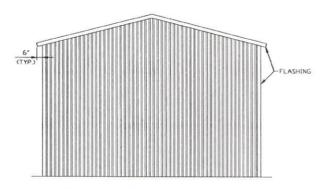
> LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS ≤ 12'-0"

16A



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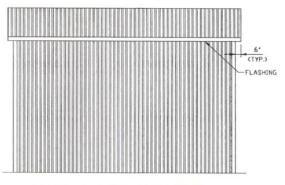
BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



TYPICAL END ELEVATION VERTICAL ROOF/SIDING

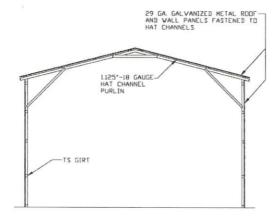
SCALE: NTS

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TYPICAL SIDE ELEVATION VERTICAL ROOF/SIDING

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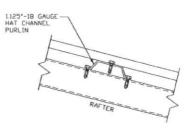


TYPICAL SECTION VERTICAL ROOF/SIDING OPTION

SCALE: NTS

TYPICAL FRAMING SECTION
VERTICAL ROOF/SIDING OPTION

SCALE: NTS

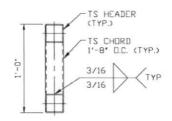


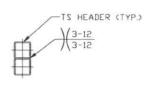
PANEL ATTACHMENT

(ALTERNATE FOR VERTICAL ROOF PANELS)
SCALE: NTS

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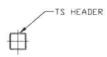
SIDE WALL HEADER OPTIONS





LACED HEADER DETAIL FOR DOOR □PENINGS 12'-0' < LENGTH < 20'-0'</pre> DOUBLE HEADER DETAIL FOR DOOR □PENINGS 7'-0' < LENGTH < 12'-0'</pre>

SCALE: NTS



SINGLE HEADER DETAIL FOR DOOR OPENINGS LENGTH < 7'-0'

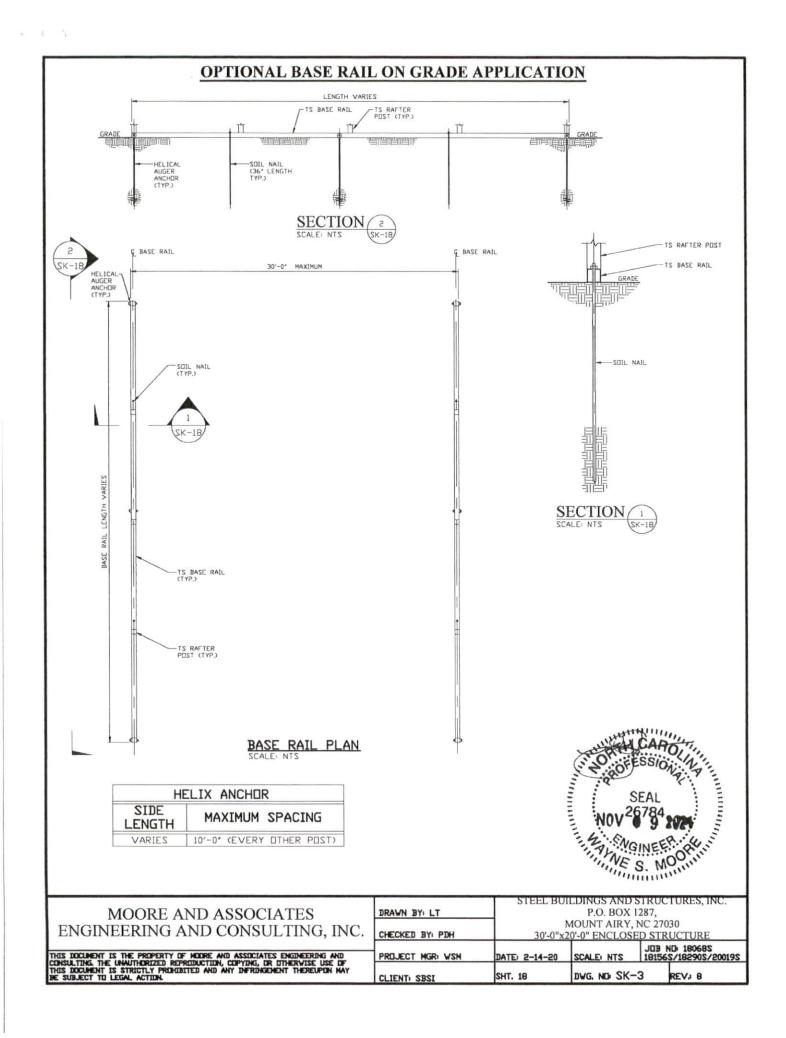
END WALL HEADER OPTIONS

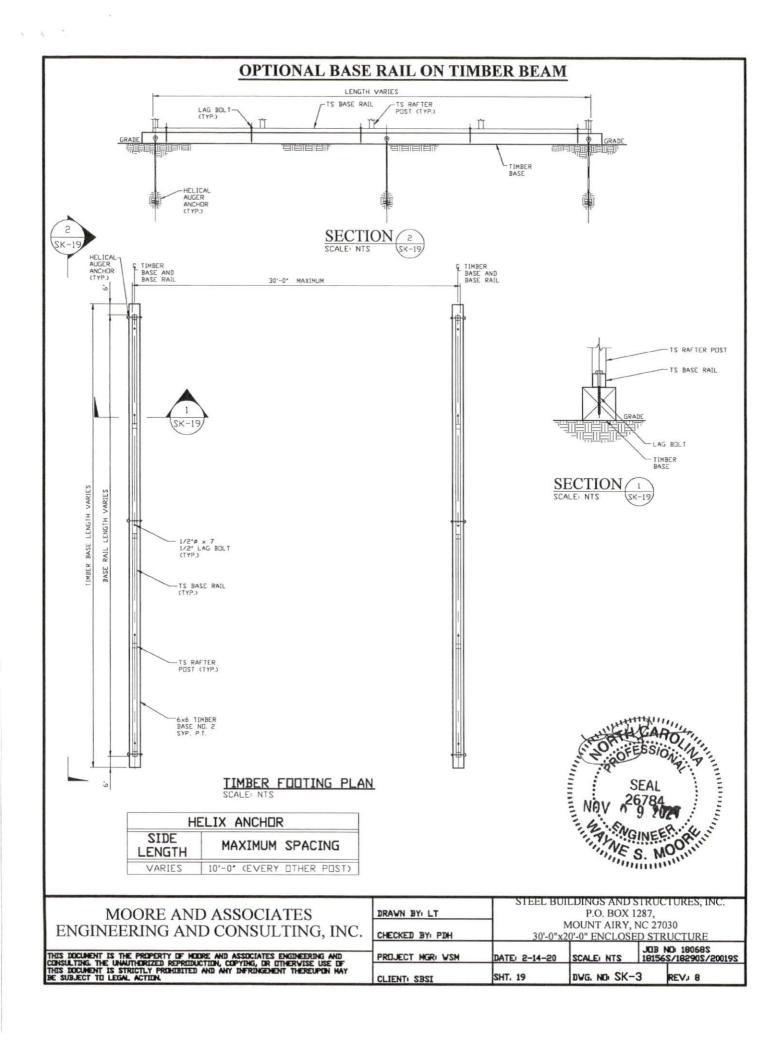


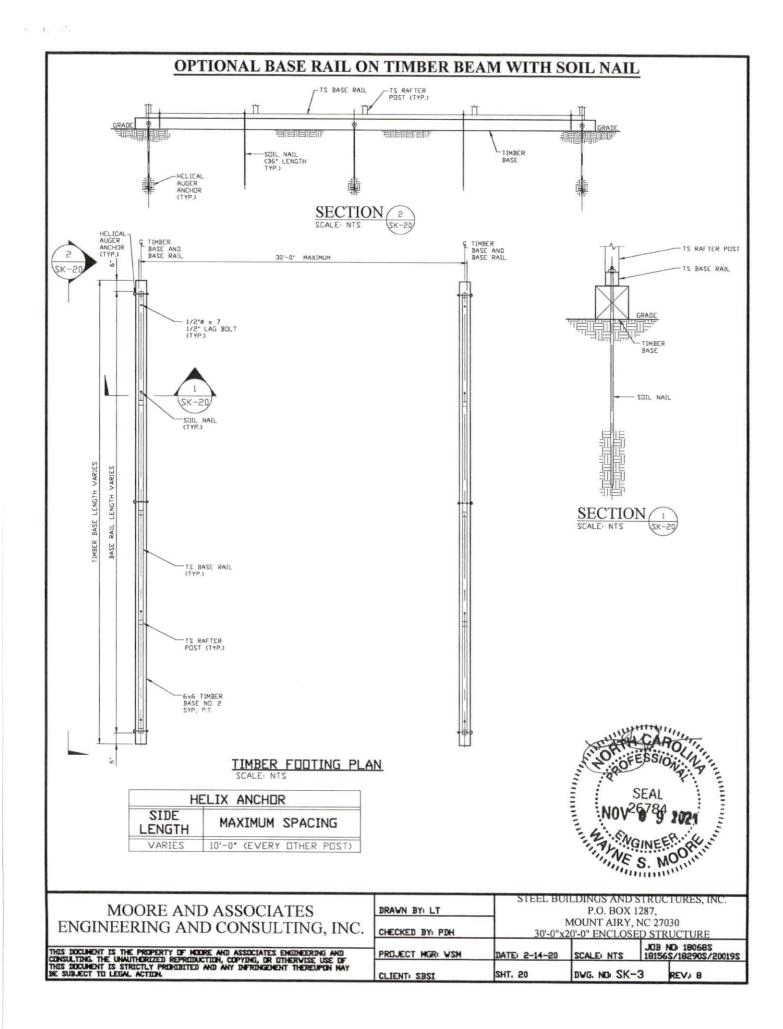
SINGLE HEADER DETAIL FOR DOOR OPENINGS LENGTH < 12'-0"

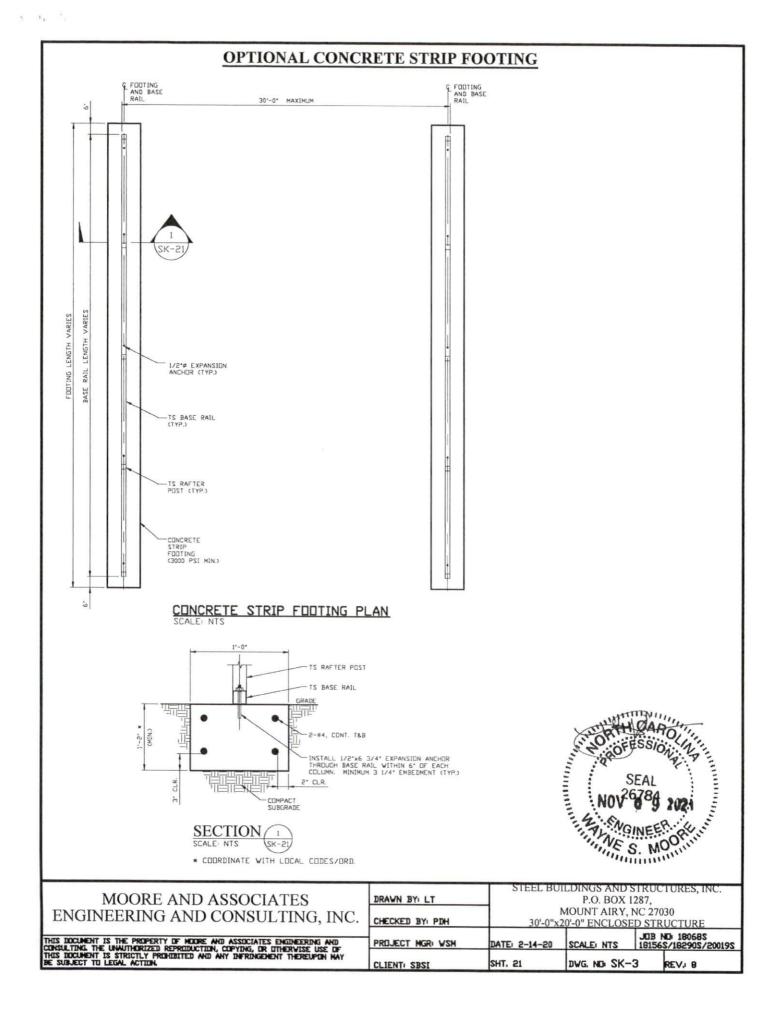


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STRUCTURAL DESIGN ENCLOSED BUILDING

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

14 February 2020 Revision 8 M&A Project No. 16062S/16155S/16207S/17155S/17200S/18068S/18156S/18290S/20019S

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 Mt. Airy, NC 27030



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					SEAL 26784 NGINEE OO
MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.			WN BY: LT	N	DINGS AND STRUCTURES, INC. P.O. BOX 1287, IOUNT AIRY, NC 27030
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DRAWING INDEX

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١	SHEET 1A	PE SEAL COVER SHEET (2 OF 2)
١	SHEET 2	DRAWING INDEX
١	SHEET 3	INSTALLATION NOTES AND SPECIFICATIONS
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١	SHEET 5	TYPICAL RAFTER/COLUMN FRAME AND SIDE FRAMING SECTION (BOX EAVE STRUCTURE)
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١	SHEET 9	BASE RAIL ANCHORAGE OPTIONS
١	SHEET 9A	ADDITIONAL BASE RAIL ANCHORAGE OPTION
I	SHEET 10	BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS
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ı	SHEET 14	BOX EAVE RAFTER LEAN-TO OPTIONS
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١	SHEET 17	SIDE WALL AND END WALL HEADER OPTIONS
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I	SHEET 19	OPTIONAL BASE RAIL ON TIMBER BEAM
	SHEET 20	OPTIONAL BASE RAIL ON TIMBER BEAM WITH SOIL NAIL
	SHEET 21	OPTIONAL CONCRETE STRIP FOOTING
1		



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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), 2019 IBC, 2012 IBC, 2015 IBC AND 2018 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')

NOTE: (UNBALANCED SNOW LOADS DUE TO DRIFTING HAVE NOT BEEN EVALUATED).

- 4. 3-SECOND GUST ULTIMATE WIND SPEED (VULT) = 105 TO 145 MPH (NOMINAL WIND SPEED = 82 TO 112 MPH):
- 5. MAXIMUM RAFTER/COLUMN AND END COLUMN SPACING = 5.0 FEET (UNLESS NOTED OTHERWISE).
- 6. END WALL COLUMNS (POSTS) ARE EQUIVALENT TO SIDE WALL POSTS IN SIZE AND SPACING (UNLESS NOTED OTHERWISE).
- 7. RISK CATEGORY I.
- 8. WIND EXPOSURE CATEGORY B.
- 9. 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).
- 10. AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR HAT CHANNELS, AND COLUMNS (INTERIOR OR END) = 8 INCHES.
- 11. FASTENERS CONSIST OF 1/4'x3/4' 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.
- 12. GROUND ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6' OF EACH COLUMN.
- 13. 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.
- 14. WIND FORCES GOVERN OVER SEISMIC FORCES, SEISMIC PARAMETERS ANALYZED ARE:

SOIL SITE CLASS = D RISK CATEGORY I

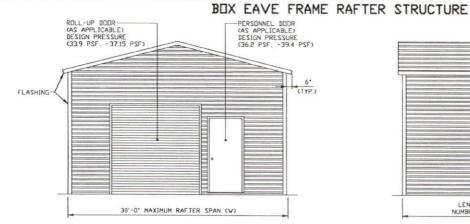
R= 3.25 Sps= 2.039 g $I_E = 1.0$ V= $C_S W$

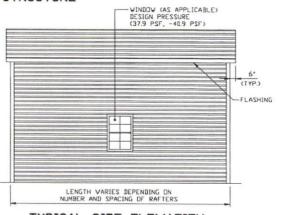
 $S_{DI} = 1.258 g$

15. WINDOW AND DOOR DESIGN PRESSURES ARE APPLICABLE TO THE STATE OF FLORIDA ONLY.



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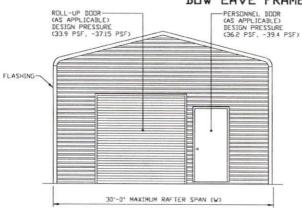
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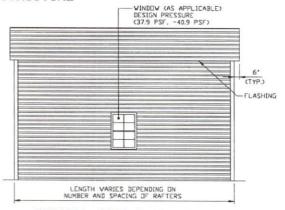
TYPICAL SIDE ELEVATION
SCALE: NTS

SCALE: NTS

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BOW EAVE FRAME RAFTER STRUCTURE





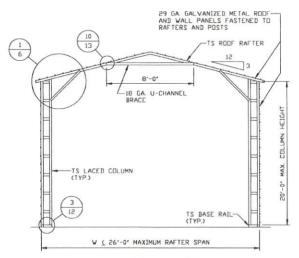
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TYPICAL SIDE ELEVATION
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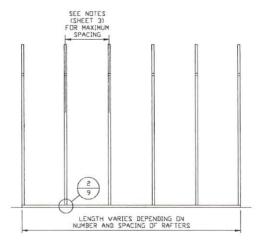


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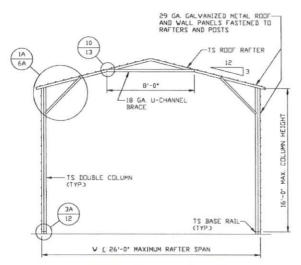
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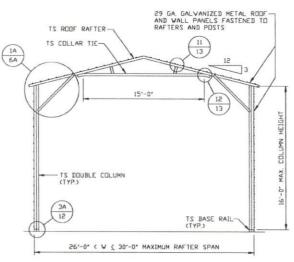
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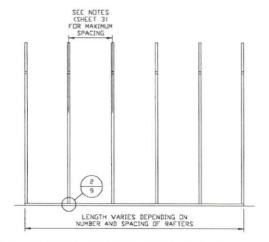
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SCALE: NTS



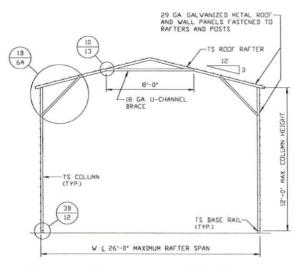
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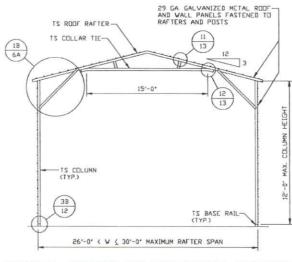
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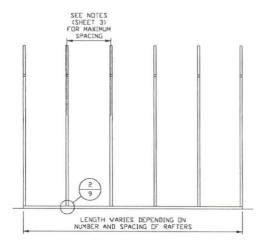
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TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: NTS



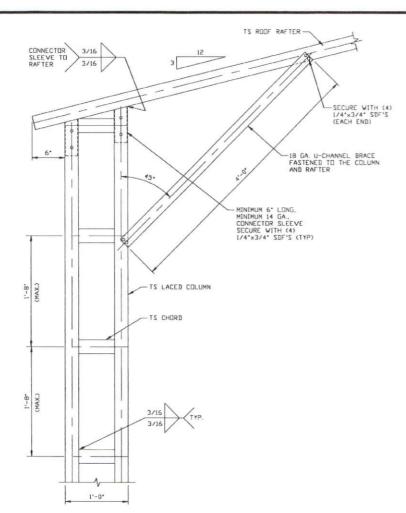
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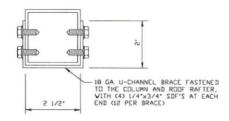
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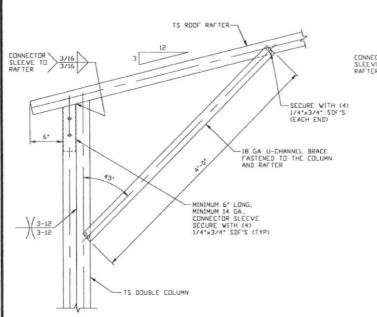
BRACE SECTION
SCALE: NTS

BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL

FOR HEIGHTS 16'-0' < TO \(\) 20'-0'



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BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 12'-0' < TO ≤ 16'-0' CONNECTOR 3/16

SLEEVE TO 3/16

SECURE VITH (4)

1/4'x3/4' SDF'S

(EACH END)

TS COLUMN

TS COLUMN

TS COLUMN

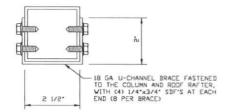
TS COLUMN

TS COUNTED (CORDNER) POST

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

SCALE: NTS

1B

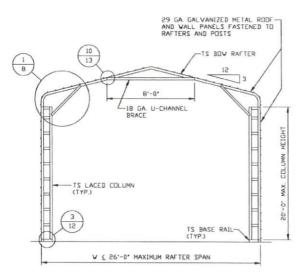


BRACE SECTION

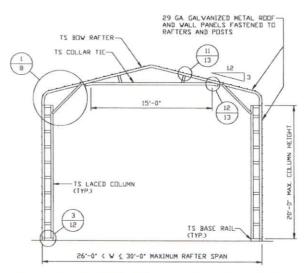
1A



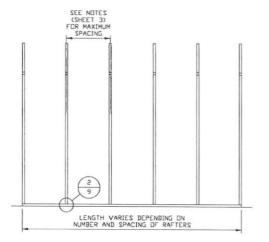
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TYPICAL RAFTER/COLUMN FRAME SECTION



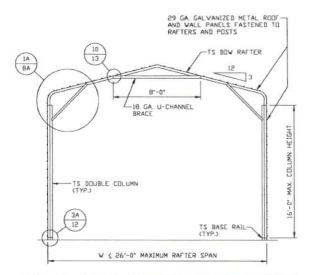
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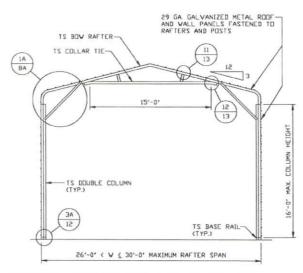
TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION SCALE: NTS



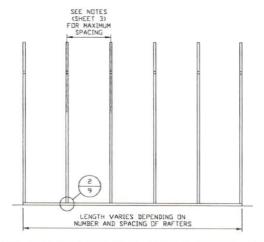
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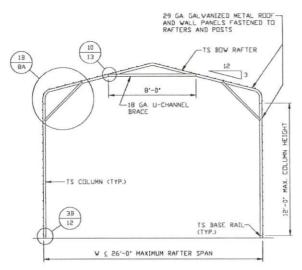
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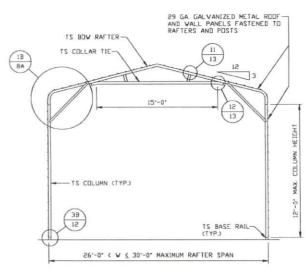
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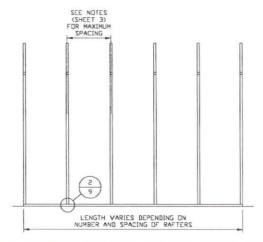
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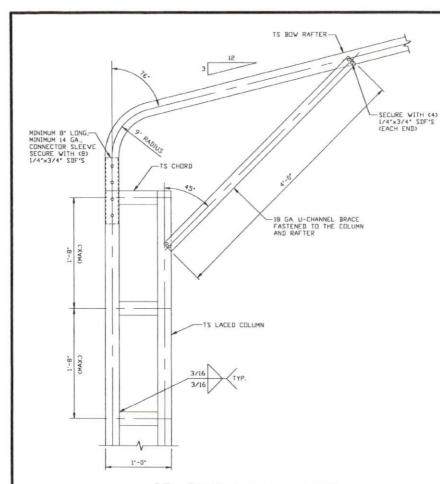
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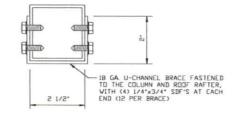


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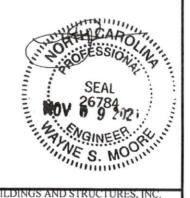
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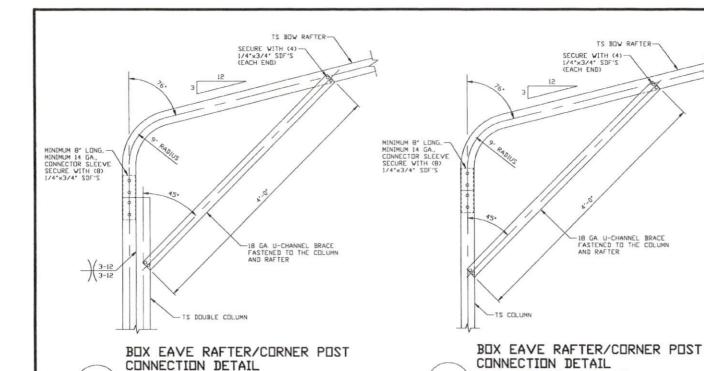


BRACE SECTION SCALE: NTS

BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 16'-0' < TO ≤ 20'-0' 1 SCALE: NTS



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18 GA. U-CHANNEL BRACE FASTENED
TO THE COLUMN AND RODF RAFTER,
WITH (4) 1/4*23/4* SDF'S AT EACH
END (8 PER BRACE)

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

BRACE SECTION
SCALE: NTS

1A

SCALE: NTS



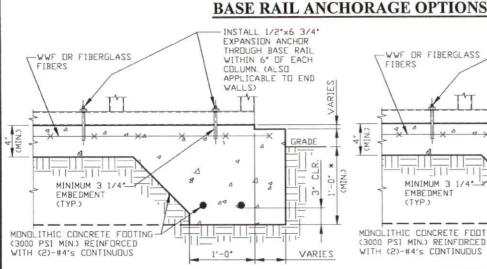
FOR HEIGHTS

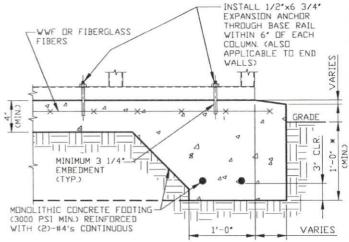
≤ 12'-0"

SCALE: NTS

1B

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2

CONCRETE MONOLITHIC SLAB BASE RAIL ANCHURAGE

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 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 DR FIBERGLASS FIBER REINFORCEMENT

REINFORCEMENT MAY BE BENT IN THE SHOP OR THE FIELD PROVIDED

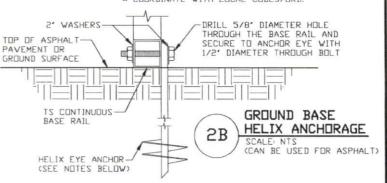
- 1. REINFORCEMENT IS BENT COLD.
 2. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS.
 3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT
- BE FIELD BENT.

HELIX ANCHOR NOTES:

- 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.
- FOR LODSE 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.



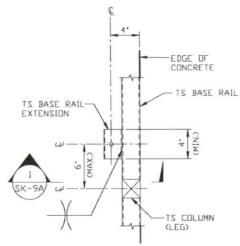
MINIMUM ANCHOR EDGE DISTANCE IS 4' * COORDINATE WITH LOCAL CODES/ORD.



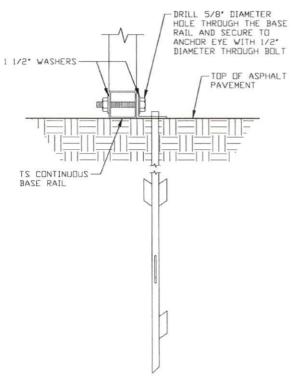


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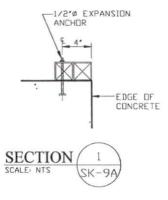
ADDITIONAL BASE RAIL ANCHORAGE OPTION



TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE



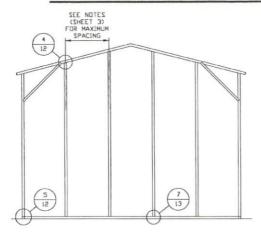






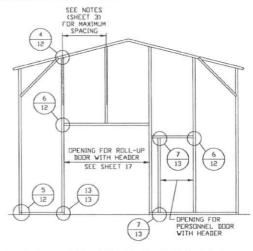
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BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



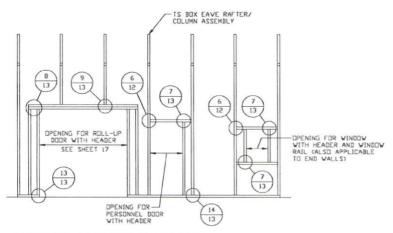
TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS

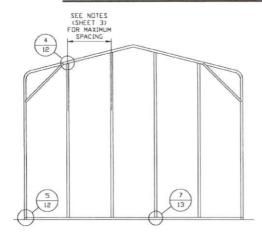


TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION



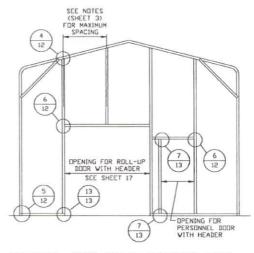
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BOW EAVE RAFTER END WALL AND SIDE WALL OPENINGS



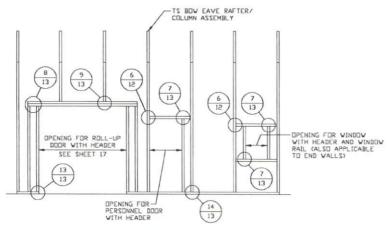
TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS

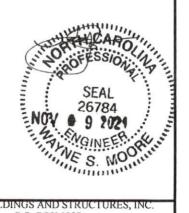


TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

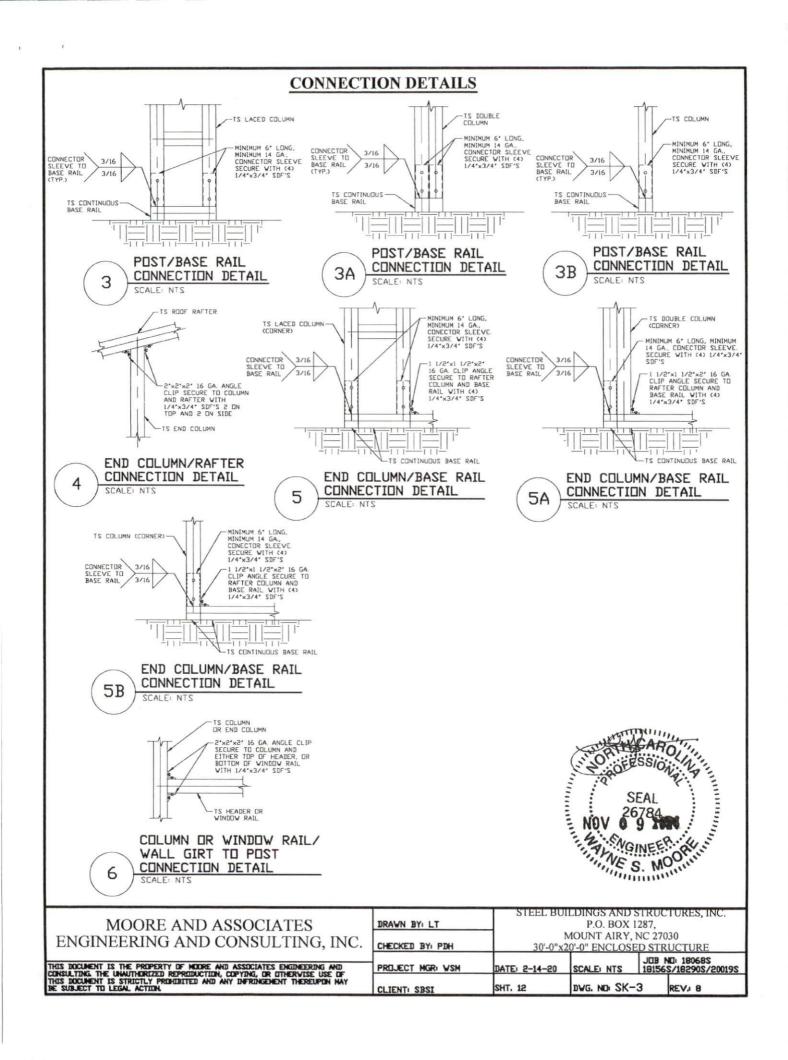
SCALE: NTS



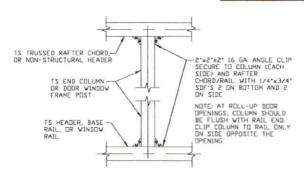
TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

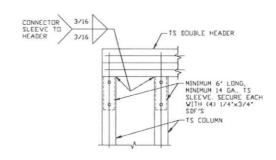


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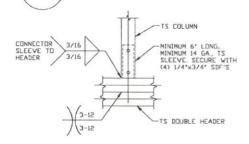




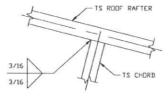


COLUMN TO HEADER, BASE RAIL, OR WINDOW RAIL CONNECTION DETAIL

8 DOUBLE HEADER/COLUMN
CONNECTION DETAIL



ATTACH COLLAR TIE
TO RODE RAFTER WITH
(4) 1/4'×3/4'
SDF'S (EACH END)

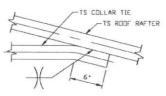


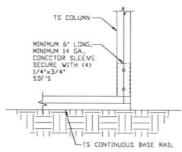
COLUMN/DOUBLE HEADER
CONNECTION DETAIL
SCALE: NTS

10 COLLAR TIE CONNECTION DETAIL

TS ROOF RAFTER

RAFTER TO CHORD CONNECTION DETAIL SCALE: NTS



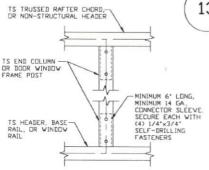


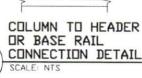
12 COLLAR TIE CONNECTION DETAIL

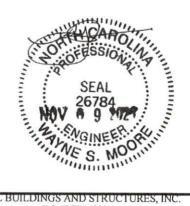
9

14

13 COLUMN/BASE RAIL CONNECTION DETAIL





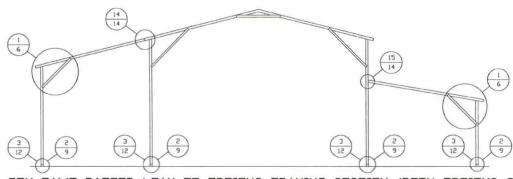


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-	PROJECT MGR: WSM	DATE: 2-14-20	SCALE: NTS		ND: 180685 55/182905/200195
	CLIENT: SBSI	SHT. 13	DWG. NO SK-	-3	REV. 8

BOX EAVE RAFTER LEAN-TO OPTIONS



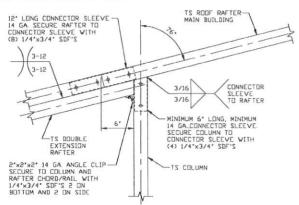
TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)

SCALE: NTS

MAXIMUM WIDTH OF SINGLE MEMBER (RAFTER) ROOF EXTENSION LEAN-TO IS 12'-0'.

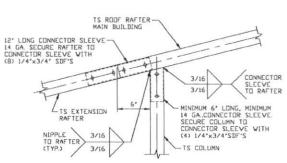
MAXIMUM WIDTH OF DOUBLE MEMBER RAFTER ROOF EXTENSION LEAN-TO IS 16'-0'.

FOR SHARED COLUMN HEIGHTS REFERENCE RAFTER COLUMN CONNECTION DETAILS FOR APPROPRIATE COLUMN HEIGHT AND TUBING SPECIFICATIONS.

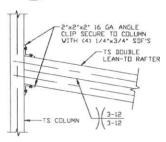


SIDE EXTENSION RAFTER/
COLUMN DETAIL FOR RAFTER

SPANS 12'-0' < TO \(\) 16'-0'



SIDE EXTENSION RAFTER/COLUMN DETAIL FOR RAFTER SPANS & 12'-0"

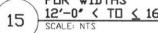


LEAN-TO RAFTER
TO RAFTER POST
CONNECTION DETAIL
FOR WIDTHS
12'-0" < TO < 16'-0"

CLIP SECURE TO COLUMN
WITH (4) 1/4'x3/4' SDF'S

TS LEAN-TO
RAFTER

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



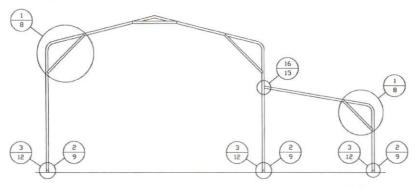


15A



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BOW EAVE RAFTER LEAN-TO OPTIONS



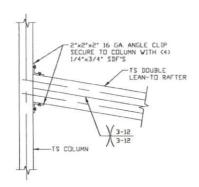
TYPICAL BOW EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION

SCALE: NTS

MAXIMUM WIDTH DF SINGLE MEMBER (RAFTER) ROOF EXTENSION LEAN-TO IS 12'-0".

MAXIMUM WIDTH OF DOUBLE MEMBER RAFTER ROOF EXTENSION LEAN-TO IS 16'-0".

FOR SHARED COLUMN HEIGHTS REFERENCE RAFTER COLUMN CONNECTION DETAILS FOR APPROPRIATE COLUMN HEIGHT AND TUBING SPECIFICATIONS.



LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS 12'-0" < TO < 16'-0" SCALE: NTS

16

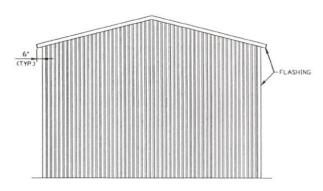
-2'x2'x2' 16 GA. ANGLE CLIP SECURE TO COLUMN WITH (4) 1/4'x3/4' SDF'S TS COLUMN

LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS < 12'-0" 16A



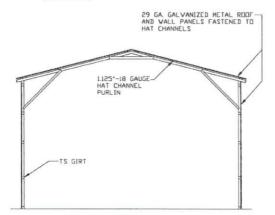
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BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



TYPICAL END ELEVATION VERTICAL ROOF/SIDING

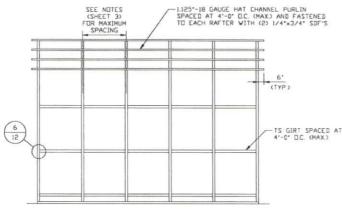
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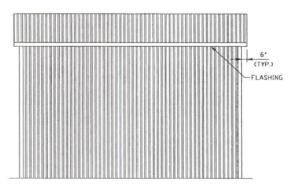
TYPICAL SECTION
VERTICAL ROOF/SIDING OPTION

SCALE: NTS

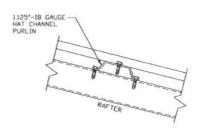
SCALE: NTS



TYPICAL FRAMING SECTION VERTICAL ROOF/SIDING OPTION



TYPICAL SIDE ELEVATION VERTICAL ROOF/SIDING

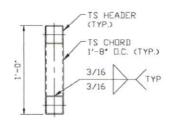


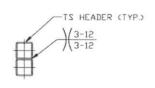
PANEL ATTACHMENT
(ALTERNATE FOR VERTICAL ROOF PANELS)
SCALE: NTS



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SIDE WALL HEADER OPTIONS

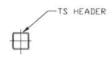




LACED HEADER DETAIL FOR DOOR OPENINGS 12'-0" < LENGTH \(\leq 20'-0" \)

5 1 5

DOUBLE HEADER DETAIL FOR DOOR OPENINGS 7'-0' < LENGTH \(\) 12'-0' SCALE: NTS



SINGLE HEADER DETAIL FOR DOOR OPENINGS LENGTH < 7'-0' SCALE: NTS

END WALL HEADER OPTIONS



SINGLE HEADER DETAIL FOR DOOR OPENINGS LENGTH \(\lambda \) 12'-0'



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