



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.**

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North Augusta, SC 29841**

**401 S. Main St., Suite 200
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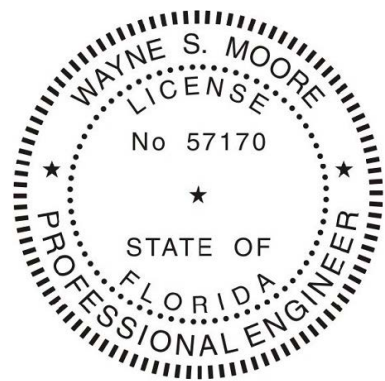


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**JOB NO: 18068S
18136S/18290S/20019S**

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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, 2015 IBC AND 2018 IBC.
3. DESIGN LOADS ARE AS FOLLOWS:
 - A) DEAD LOAD = 15 PSF
 - B) LIVE LOAD = 12 PSF
 - C) GROUND SNOW LOAD = 30 PSF ($\leq 26'-0"$), 35 PSF ($26'-0" < W \leq 30'-0"$)

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 = 50 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 $I_E = 1.0$
 $S_{DS} = 2.039\ g$ $V = C_S W$
 $S_{D1} = 1.258\ g$
15. WINDOW AND DOOR DESIGN PRESSURES ARE APPLICABLE TO THE STATE OF FLORIDA ONLY.



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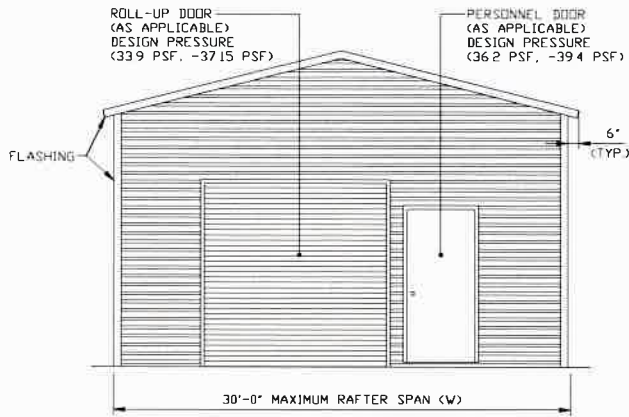
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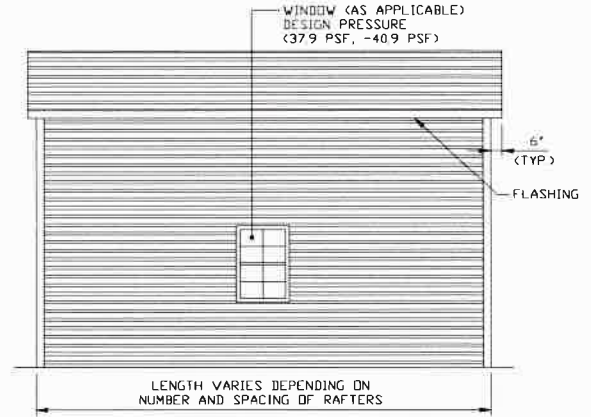
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BOX EAVE FRAME RAFTER STRUCTURE



TYPICAL END ELEVATION

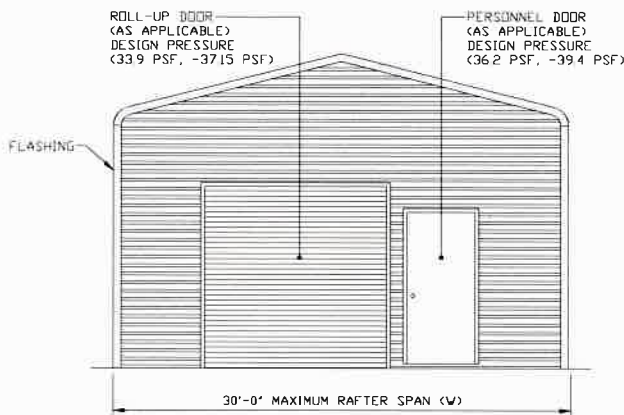
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TYPICAL SIDE ELEVATION

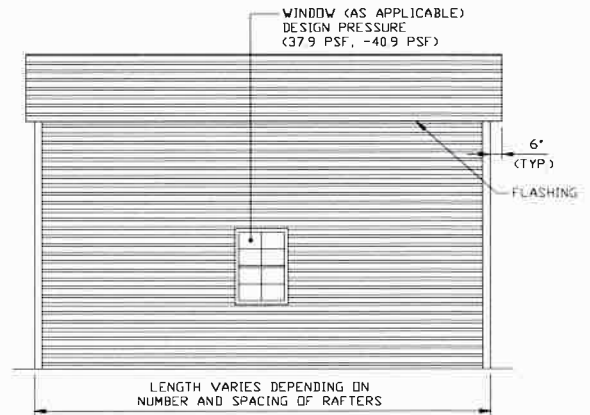
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BOW EAVE FRAME RAFTER STRUCTURE



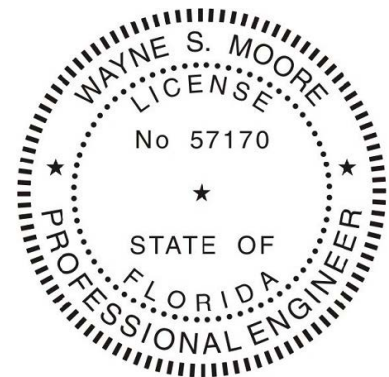
TYPICAL END ELEVATION

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TYPICAL SIDE ELEVATION

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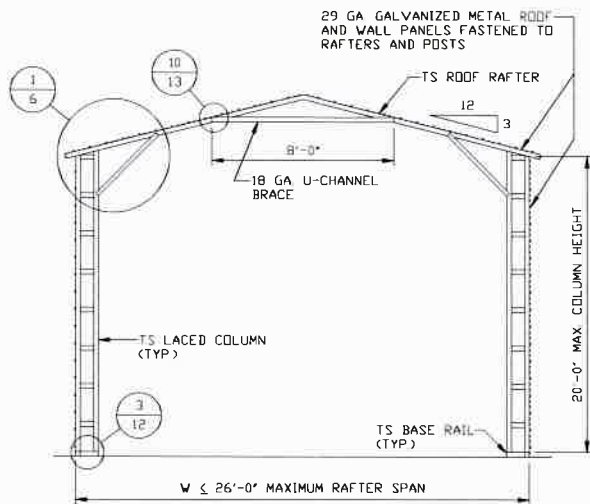
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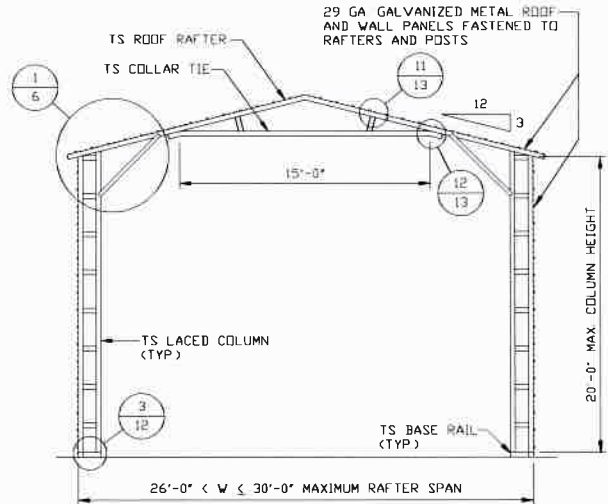
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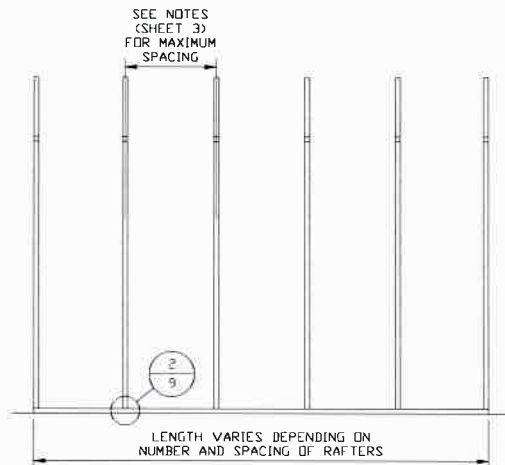
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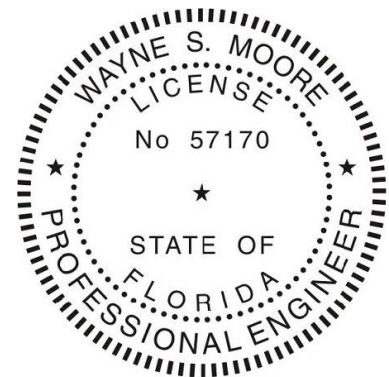
TYPICAL RAFTER/COLUMN FRAME SECTION
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TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
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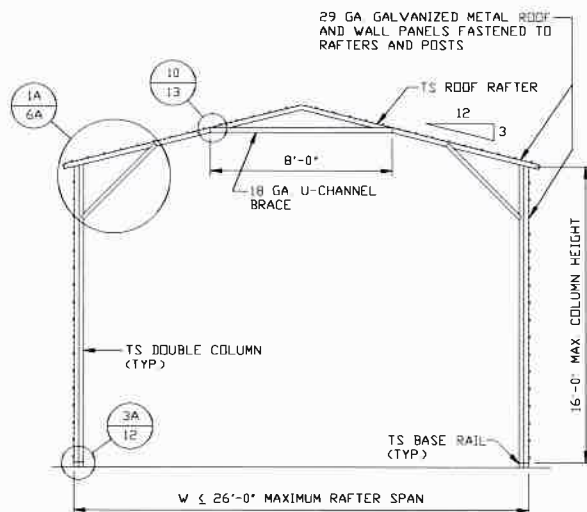
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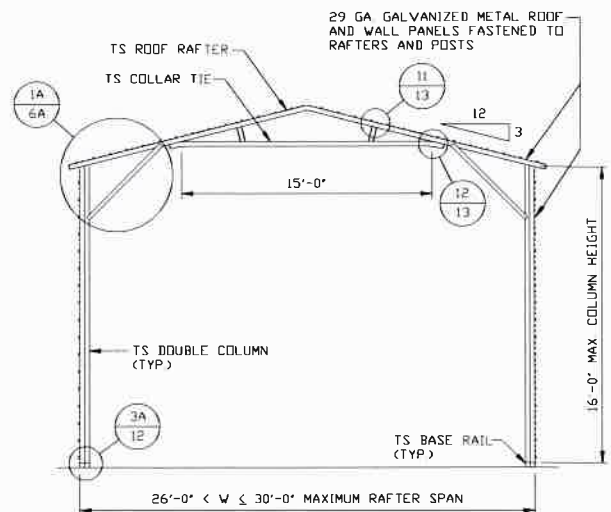
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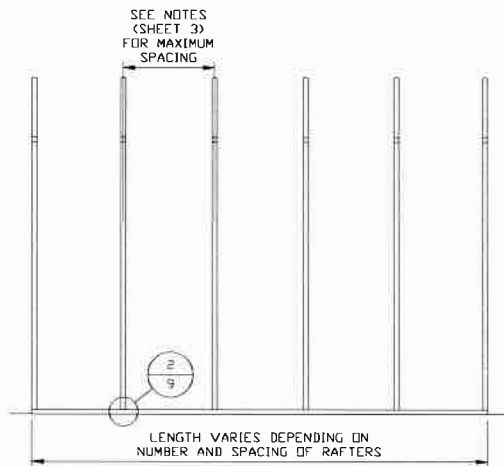
TYPICAL RAFTER/COLUMN FRAME SECTION

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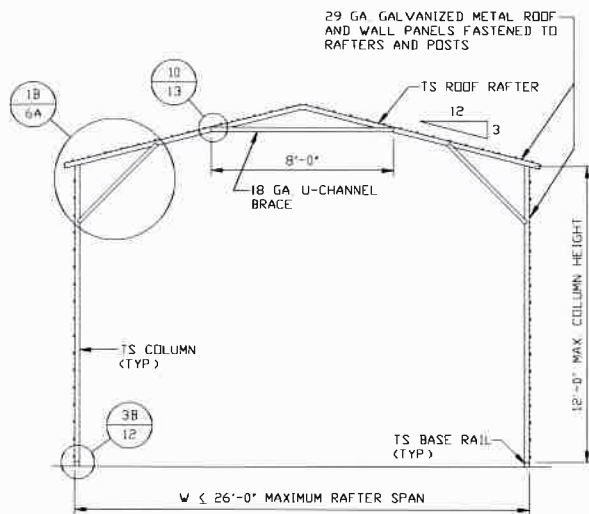
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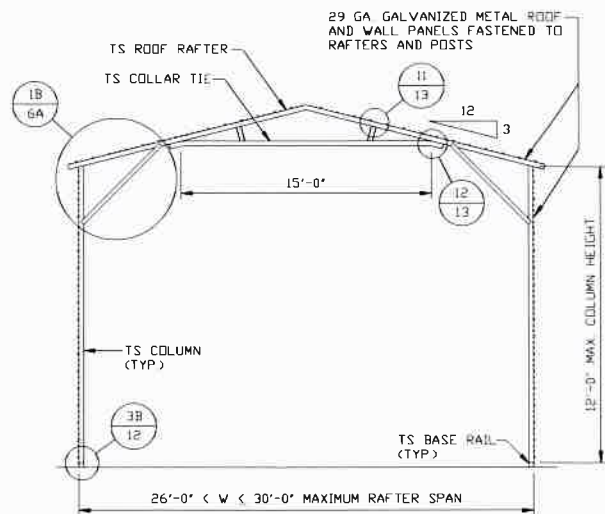
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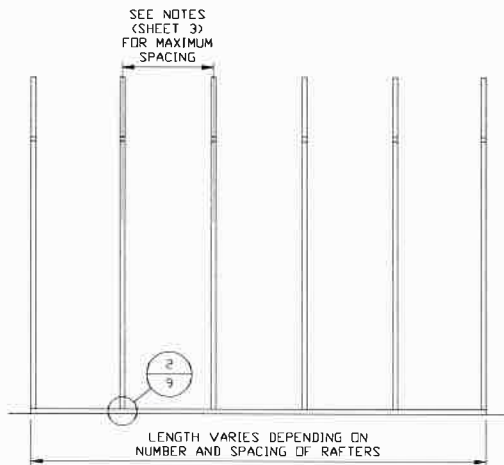
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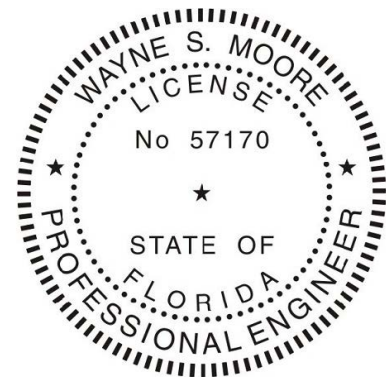
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TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

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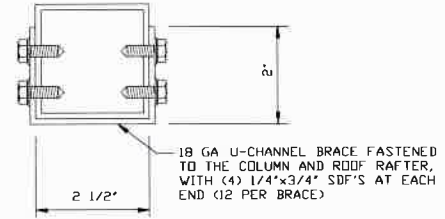
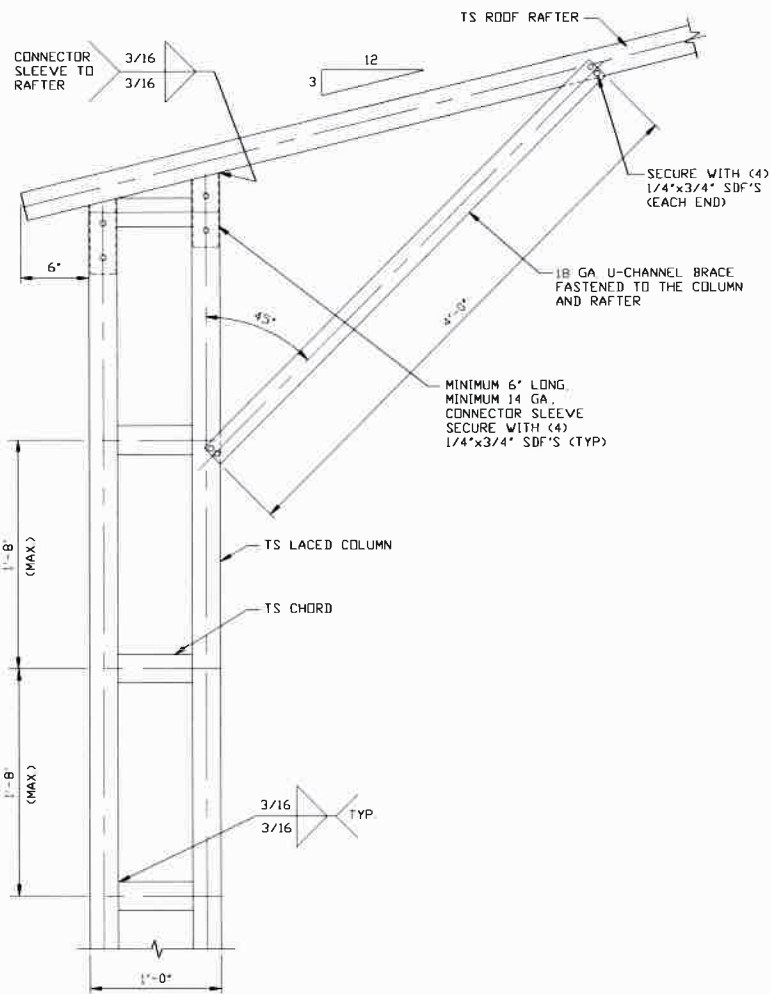
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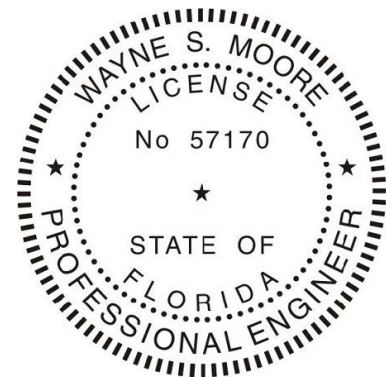


BRACE SECTION

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

SCALE: NTS



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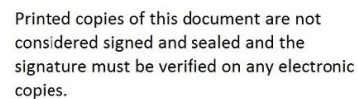
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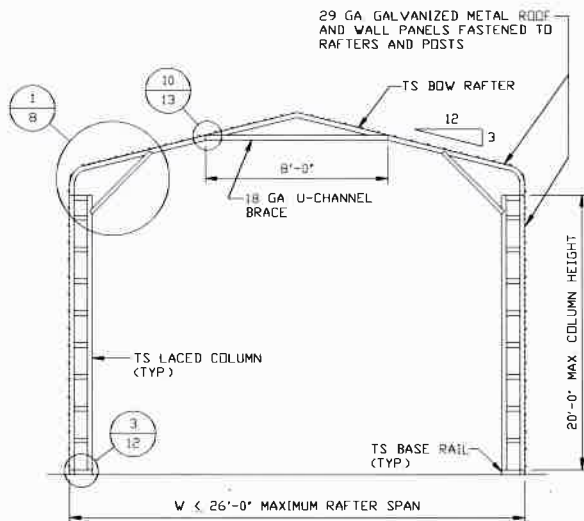
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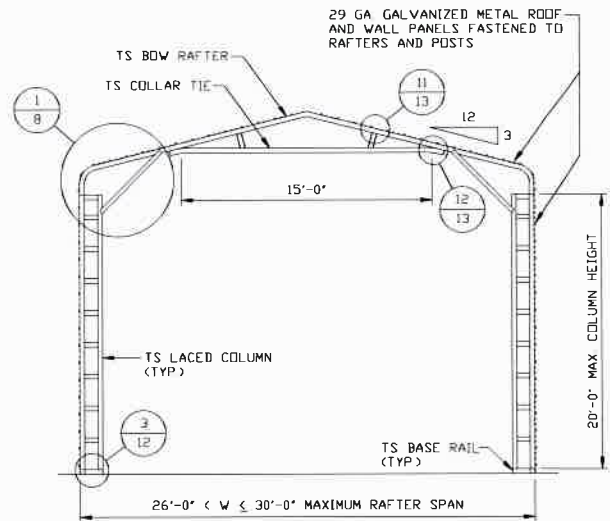
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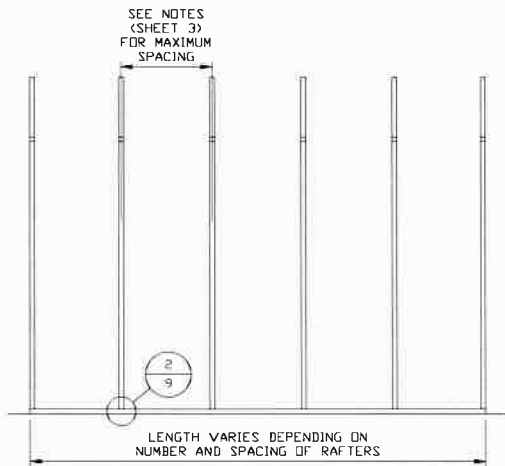
TYPICAL RAFTER/COLUMN FRAME SECTION

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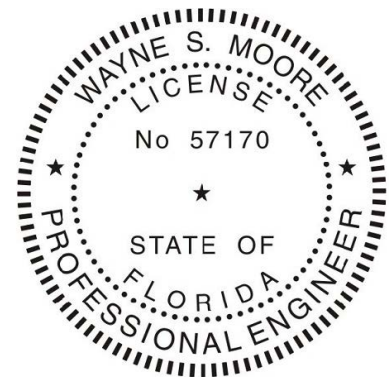
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TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

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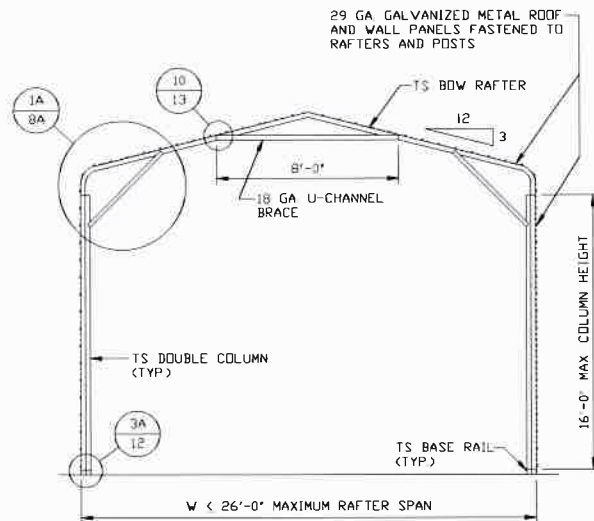
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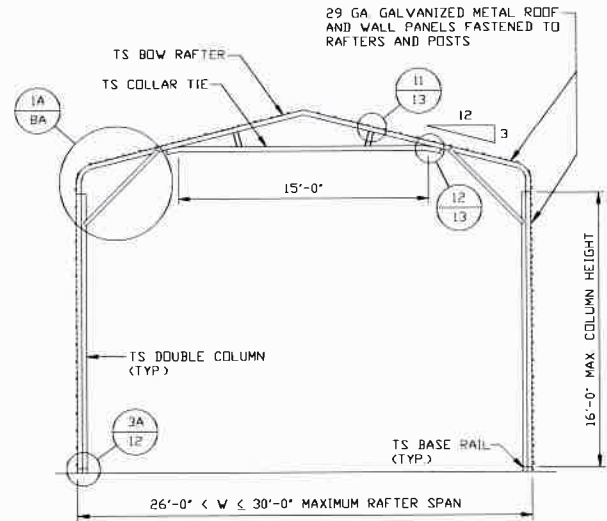
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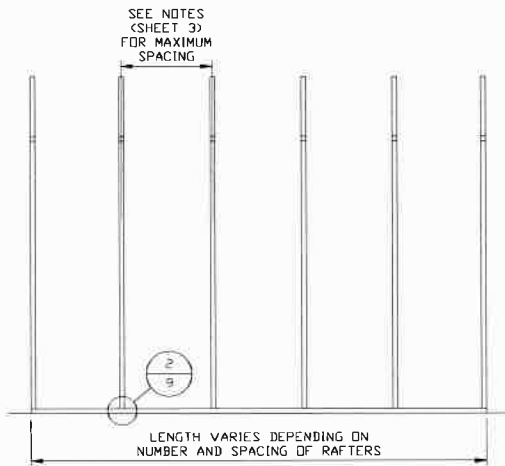
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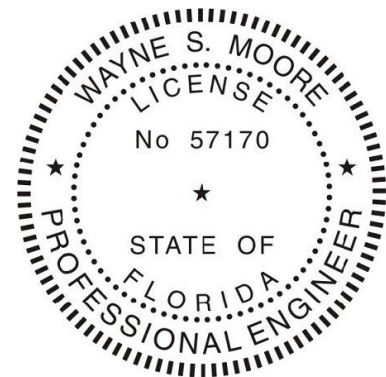
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TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
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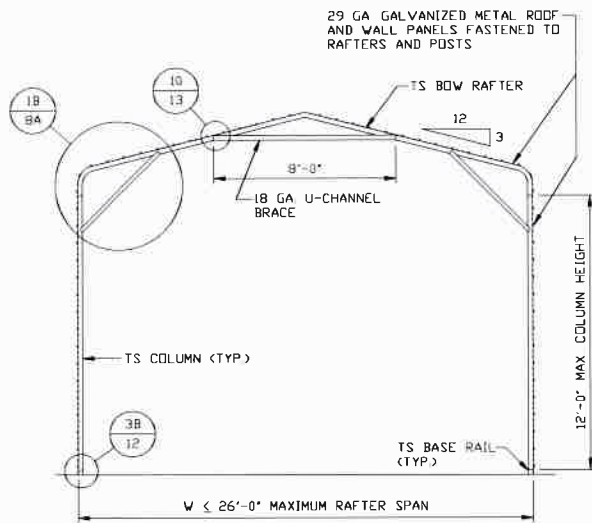
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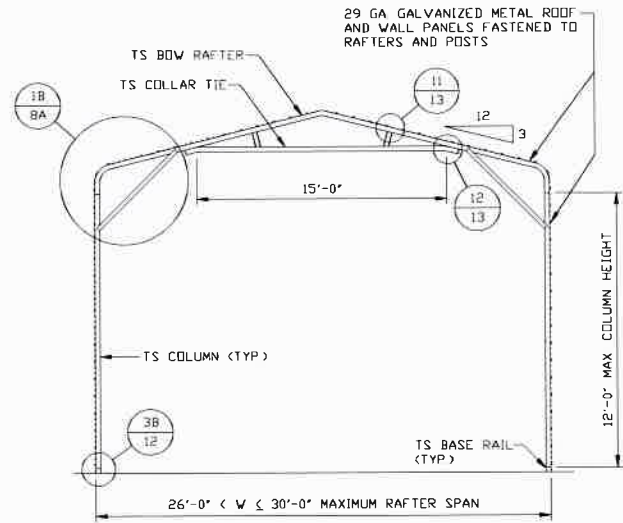
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SHT. 7A **DWG. NO:** SK-3 **REV:** 8

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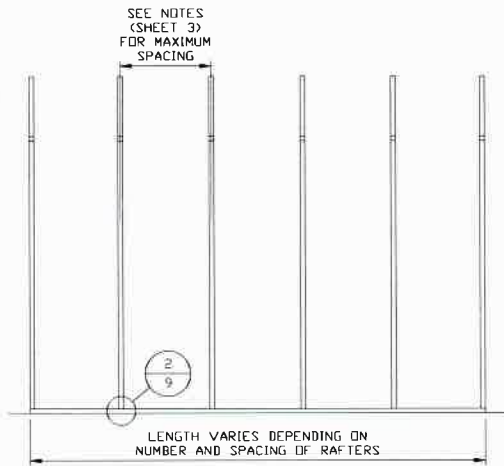
TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS



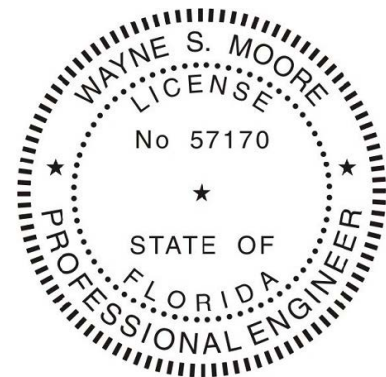
TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

SCALE: NTS



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PROJECT MGR: WSM

CLIENT: SBSI

STEEL BUILDINGS AND STRUCTURES, INC.
P.O. BOX 1287,
MOUNT AIRY, NC 27030
30'-0"x20'-0" ENCLOSED STRUCTURE

DATE: 2-14-20

SCALE: NTS

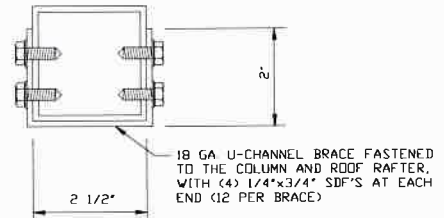
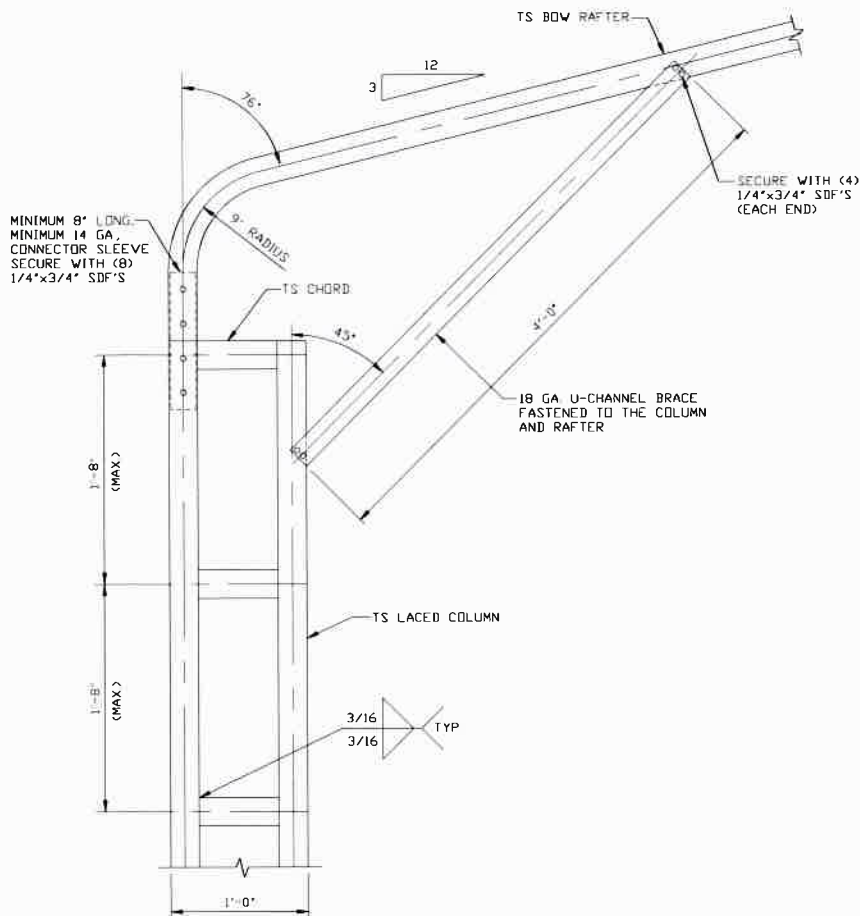
DWG. NO: SK-3

**JOB NO: 18068S
18156S/18290S/20019S**

SHT. 7B

REV: 8

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BRACE SECTION

SCALE: NTS

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



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P.O. BOX 1287,
MOUNT AIRY, NC 27030
30'-0"x20'-0" ENCLOSED STRUCTURE

DATE: 2-14-20

SHT. 8

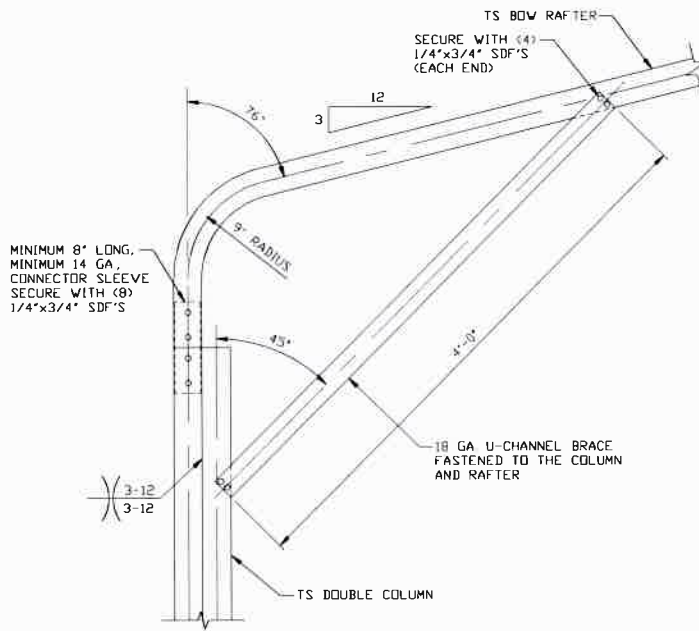
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DWG. NO SK-3

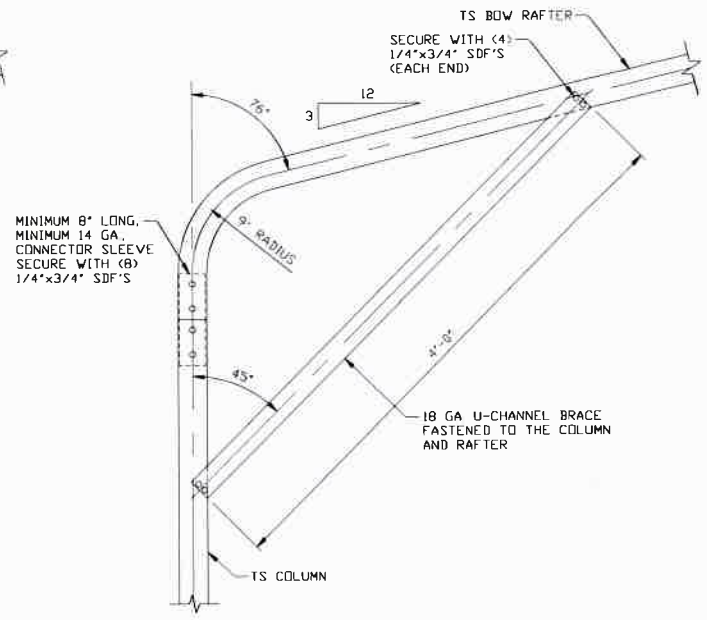
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18156S/18290S/20019S

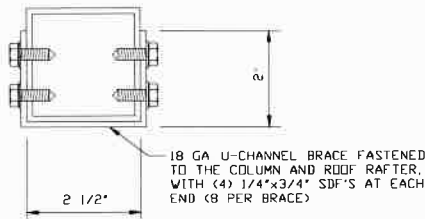
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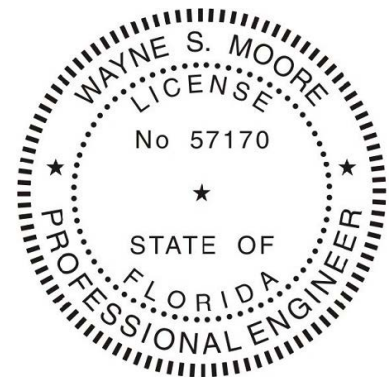
**BOX EAVE RAFTER/CORNER POST
CONNECTION DETAIL
FOR HEIGHTS 12'-0" < TO ≤ 16'-0"**
SCALE: NTS



**BOX EAVE RAFTER/CORNER POST
CONNECTION DETAIL
FOR HEIGHTS ≤ 12'-0"**
SCALE: NTS



BRACE SECTION
SCALE: NTS



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P.O. BOX 1287,
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30'-0"x20'-0" ENCLOSED STRUCTURE

DATE: 2-14-20

SCALE: NTS

SHT. 8A

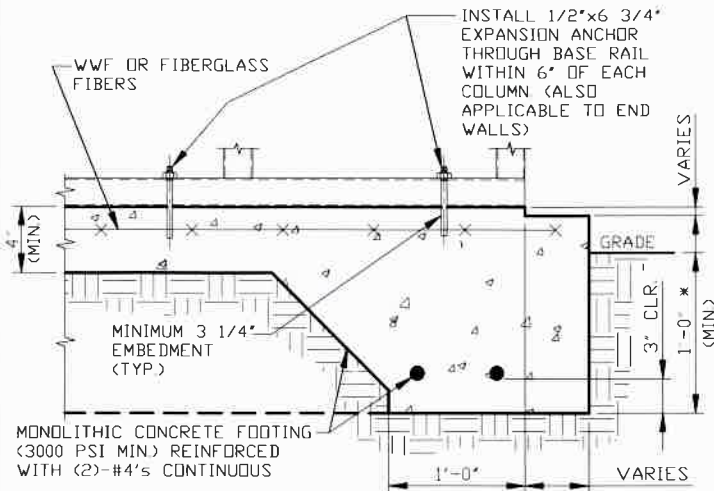
DWG. NO: SK-3

**JOB NO: 18068S
18156S/18290S/20019S**

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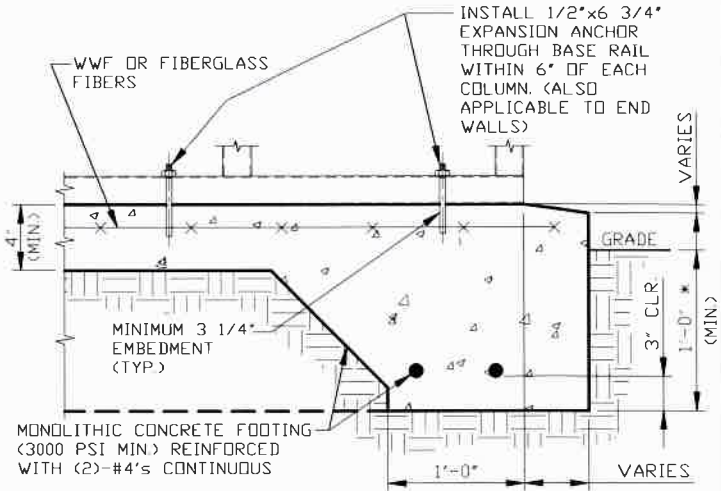
BASE RAIL ANCHORAGE OPTIONS



2

CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

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



2A

CONCRETE SLAB BASE RAIL ANCHORAGE

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:

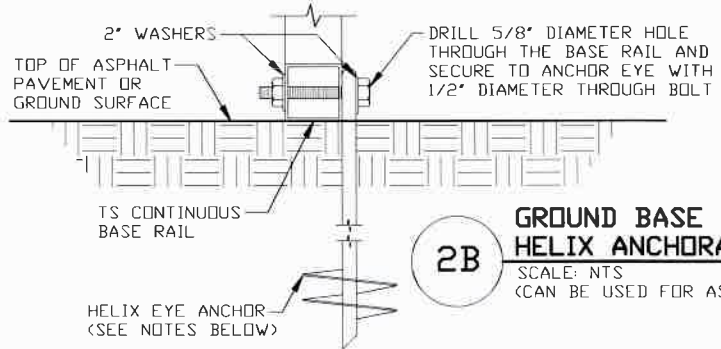
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

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 BE FIELD BENT.

HELIX ANCHOR NOTES:

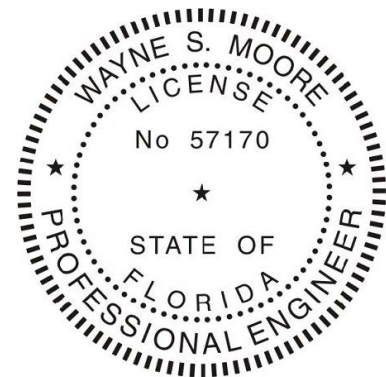
1. FOR VERY DENSE AND/OR CEMENTED SANDS, COARSE GRAVEL AND COBBLES, CALICHE, PRELOADED SILTS AND CLAYS, USE MINIMUM (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINGLE 6" HELIX WITH MINIMUM 50" EMBEDMENT.
2. FOR CORAL USE MINIMUM (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINGLE 6" HELIX WITH MINIMUM 50" EMBEDMENT.
3. FOR MEDIUM DENSE COARSE SANDS, SANDY GRAVELS, VERY STIFF SILTS, AND CLAYS USE MINIMUM (2) 4" HELICES WITH MINIMUM 30 INCH EMBEDMENT OR SINGLE 6" HELIX WITH MINIMUM 50" EMBEDMENT.
4. FOR 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 LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER CLAYS AND SILTS, ALLUVIAL FILL, USE MINIMUM (2) 8" HELICES WITH MINIMUM 50" EMBEDMENT.



2B

GROUND BASE HELIX ANCHORAGE

SCALE: NTS
(CAN BE USED FOR ASPHALT)



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PROJECT MGR: WSM

CLIENT: SBSI

STEEL BUILDINGS AND STRUCTURES, INC.
P.O. BOX 1287,
MOUNT AIRY, NC 27030
30'-0" x 20'-0" ENCLOSED STRUCTURE

DATE: 2-14-20

SHT. 9

SCALE: NTS

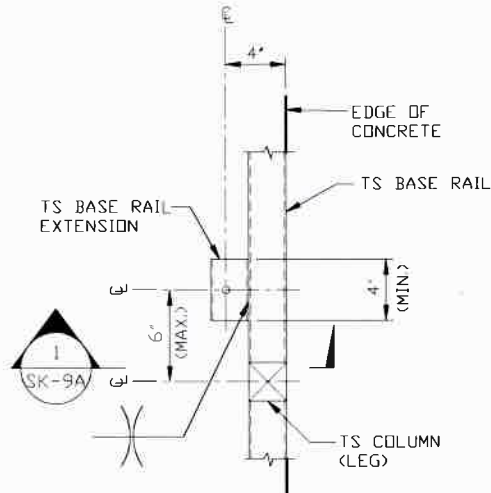
DWG. NO: SK-3

JOB NO: 18068S
18156S/18290S/20019S

REV: 8

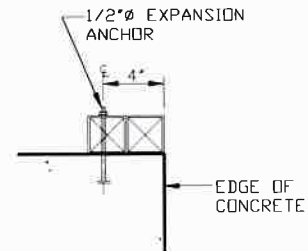
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ADDITIONAL BASE RAIL ANCHORAGE OPTION

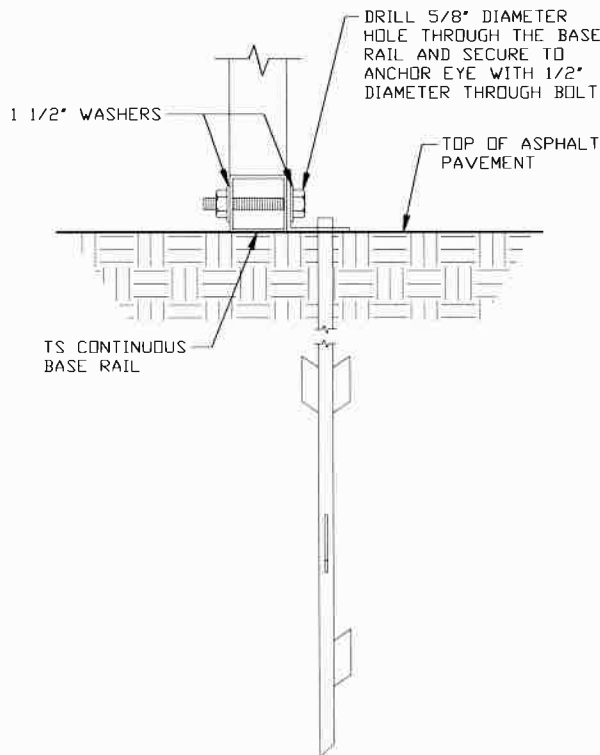


TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE

SCALE: NTS



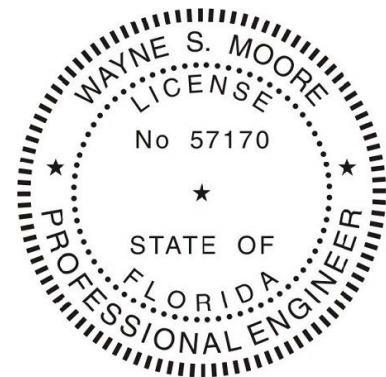
SECTION 1
SCALE: NTS
SK-9A



2C

ASPHALT BASE ANCHORAGE

SCALE: NTS



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30'-0" x 20'-0" ENCLOSED STRUCTURE

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SCALE: NTS

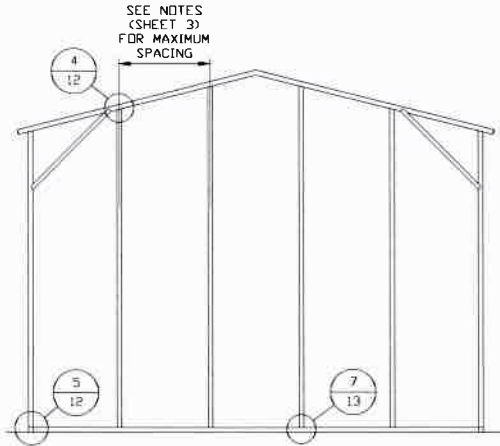
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**JOB NO: 18068S
18156S/18290S/20019S**

REV: 0

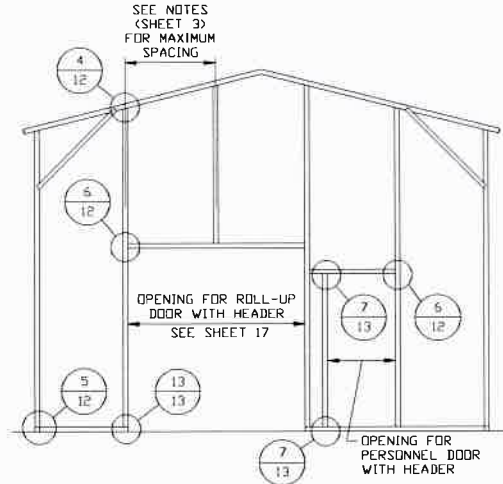
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BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



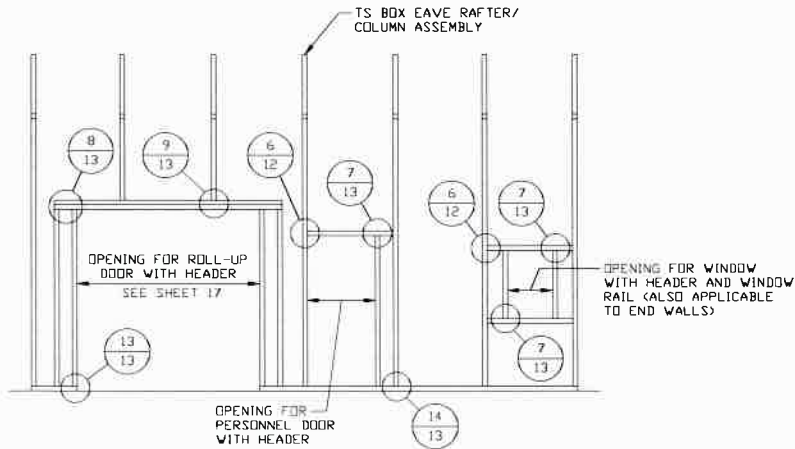
**TYPICAL BOX EAVE RAFTER
END WALL FRAMING SECTION**

SCALE: NTS



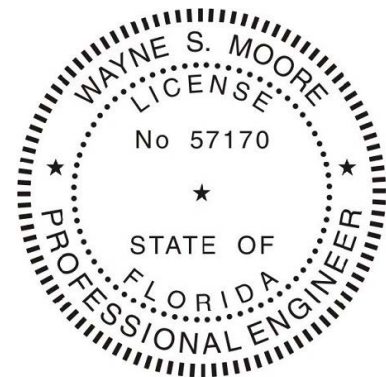
**TYPICAL BOX EAVE RAFTER END
WALL OPENINGS FRAMING SECTION**

SCALE: NTS



**TYPICAL BOX EAVE RAFTER
SIDE WALL OPENINGS FRAMING SECTION**

SCALE: NTS



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SCALE: NTS

SHT. 10

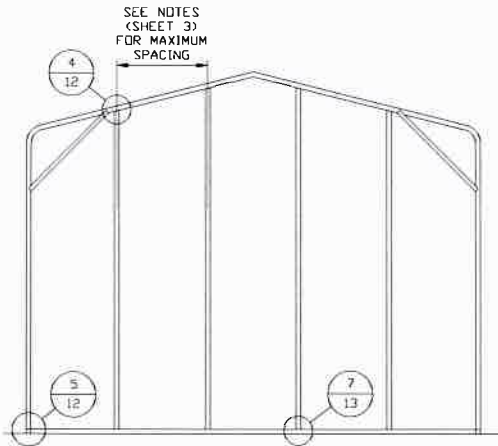
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**JOB NO: 18068S
18156S/18290S/20019S**

REV: 8

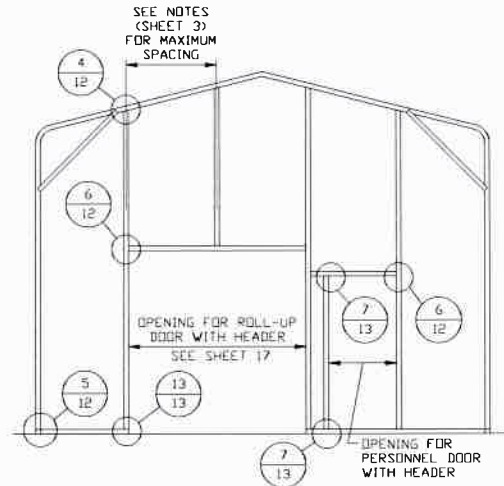
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BOW EAVE RAFTER END WALL AND SIDE WALL OPENINGS



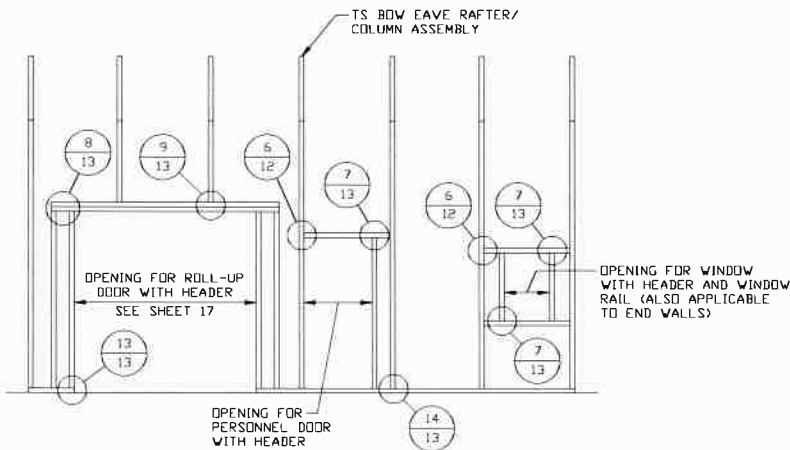
**TYPICAL BOX EAVE RAFTER
END WALL FRAMING SECTION**

SCALE: NTS



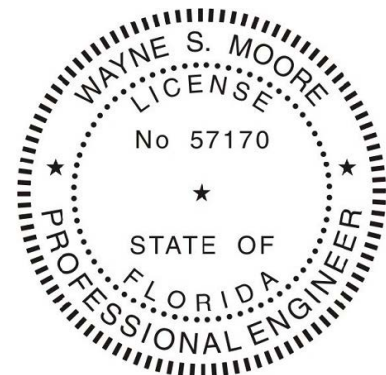
**TYPICAL BOX EAVE RAFTER END
WALL OPENINGS FRAMING SECTION**

SCALE: NTS



**TYPICAL BOX EAVE RAFTER
SIDE WALL OPENINGS FRAMING SECTION**

SCALE: NTS



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SHT. 11

SCALE: NTS

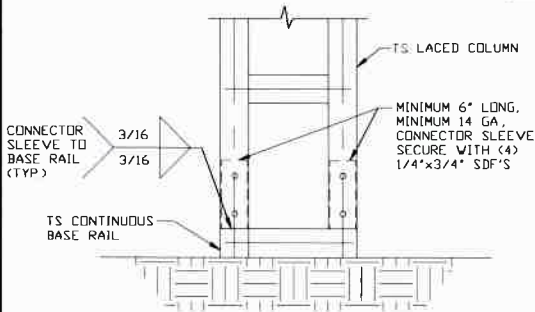
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**JOB NO: 18068S
18156S/18290S/20019S**

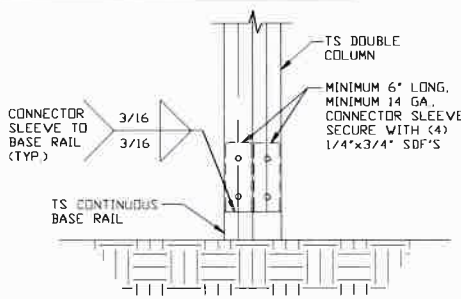
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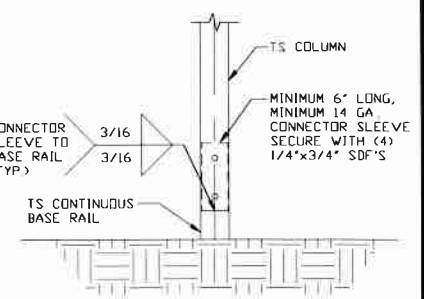
CONNECTION DETAILS



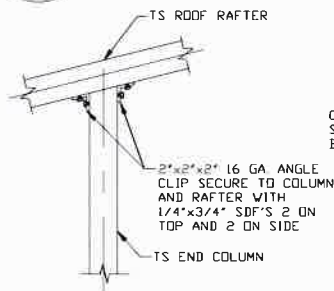
3 POST/BASE RAIL CONNECTION DETAIL
SCALE: NTS



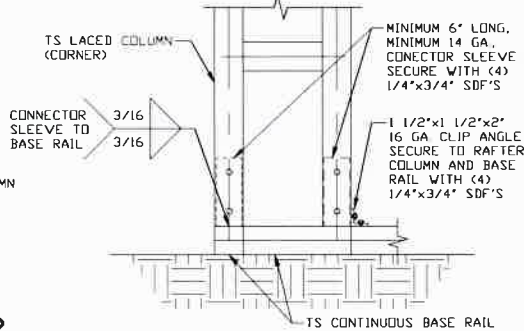
3A POST/BASE RAIL CONNECTION DETAIL
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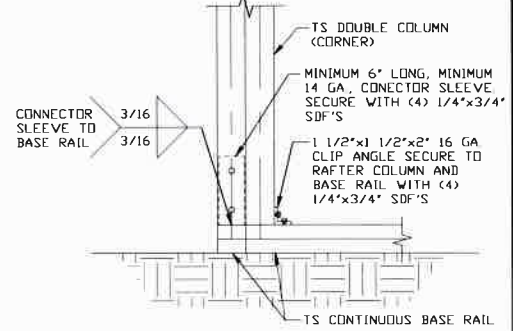
3B POST/BASE RAIL CONNECTION DETAIL
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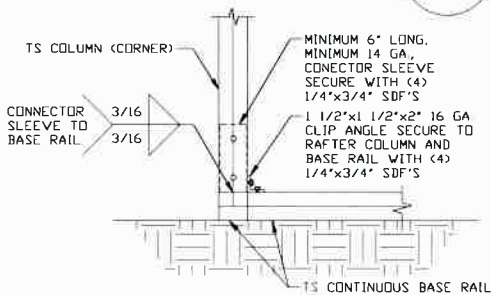
4 END COLUMN/RAFTER CONNECTION DETAIL
SCALE: NTS



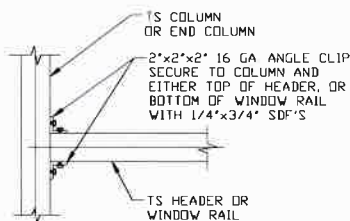
5 END COLUMN/BASE RAIL CONNECTION DETAIL
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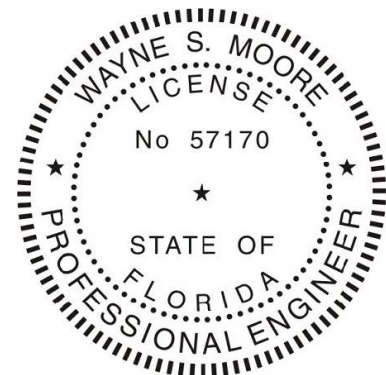
5A END COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



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



6 COLUMN OR WINDOW RAIL/WALL GIRT TO POST CONNECTION DETAIL
SCALE: NTS



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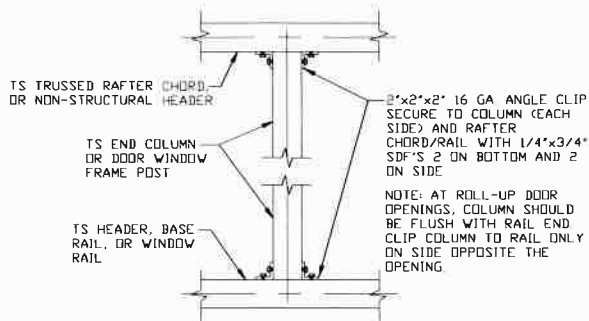
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PROJECT MGR: WSM
CLIENT: SBSI

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P.O. BOX 1287,
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18156S/18290S/20019S
SHT. 12 **DWG. NO.** SK-3 **REV.** 8

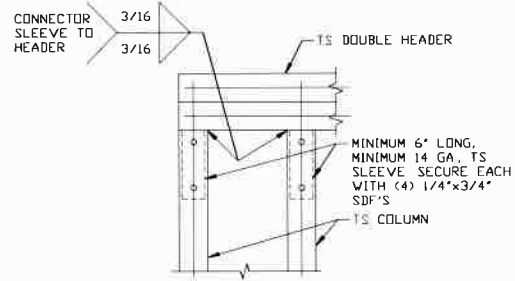
CONNECTION DETAILS



7

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

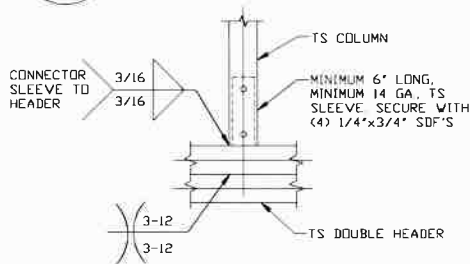
SCALE: NTS



8

DOUBLE HEADER/COLUMN CONNECTION DETAIL

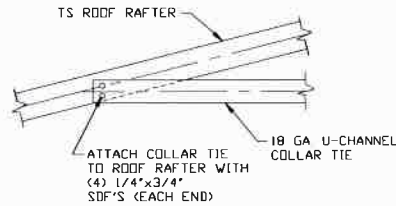
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9

COLUMN/DOUBLE HEADER CONNECTION DETAIL

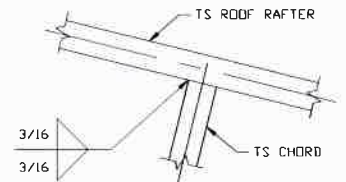
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10

COLLAR TIE CONNECTION DETAIL

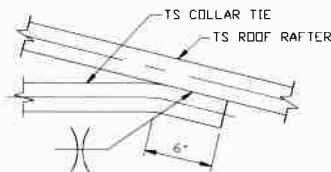
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11

RAFTER TO CHORD CONNECTION DETAIL

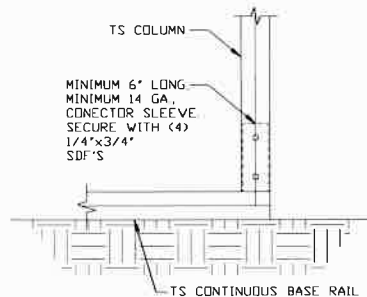
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12

COLLAR TIE CONNECTION DETAIL

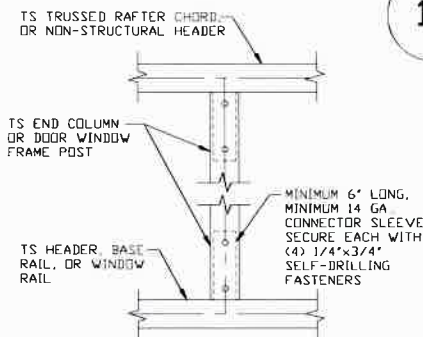
SCALE: NTS



13

COLUMN/BASE RAIL CONNECTION DETAIL

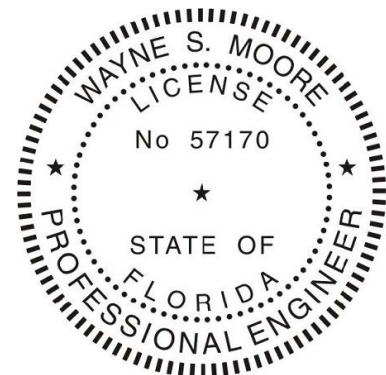
SCALE: NTS



14

COLUMN TO HEADER OR BASE RAIL CONNECTION DETAIL

SCALE: NTS



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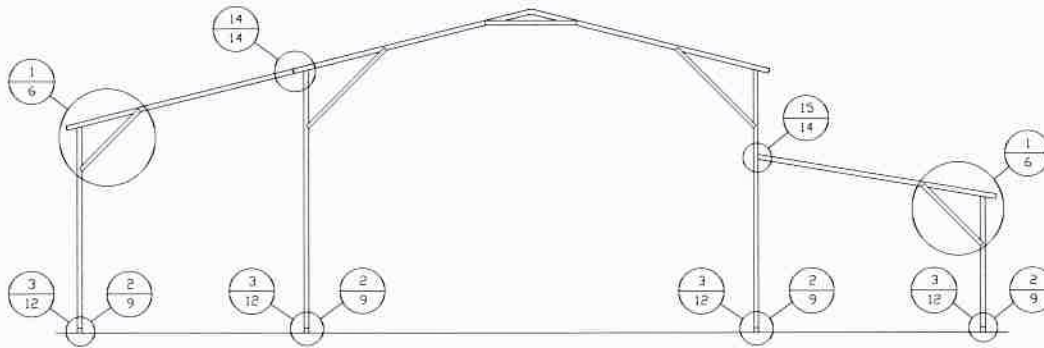
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JOB NO: 18068S
18156S/18290S/20019S

REV: 8

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BOX EAVE RAFTER LEAN-TO OPTIONS



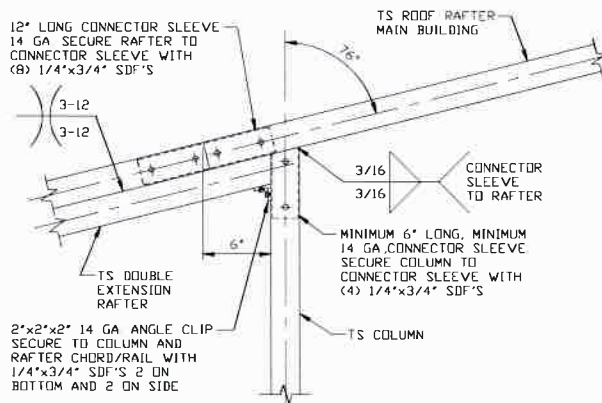
TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)

SCALE: NTS

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

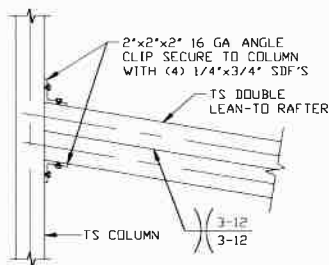
MAXIMUM WIDTH OF DOUBLE MEMBER RAFTER ROOF EXTENSION LEAN-TO IS 16'-0".

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



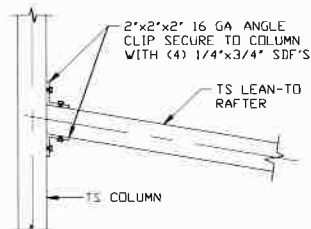
14 SIDE EXTENSION RAFTER/ COLUMN DETAIL FOR RAFTER SPANS 12'-0' < TO < 16'-0'

SCALE: NTS



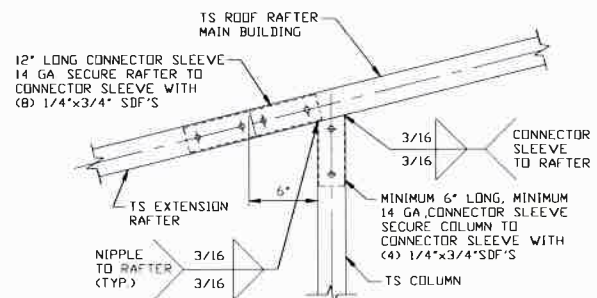
15 LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS 12'-0' < TO < 16'-0'

SCALE: NTS



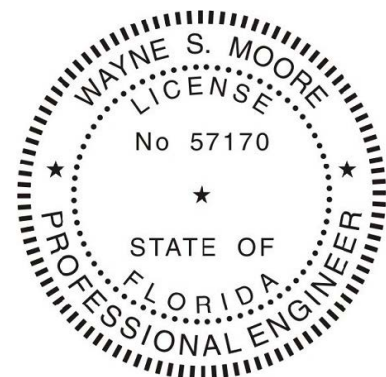
15A LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS < 12'-0'

SCALE: NTS



14A SIDE EXTENSION RAFTER/ COLUMN DETAIL FOR RAFTER SPANS < 12'-0'

SCALE: NTS



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CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: SBSI

STEEL BUILDINGS AND STRUCTURES, INC.
P.O. BOX 1287,
MOUNT AIRY, NC 27030
30'-0"x20'-0" ENCLOSED STRUCTURE

DATE: 2-14-20

SHT. 14

SCALE: NTS

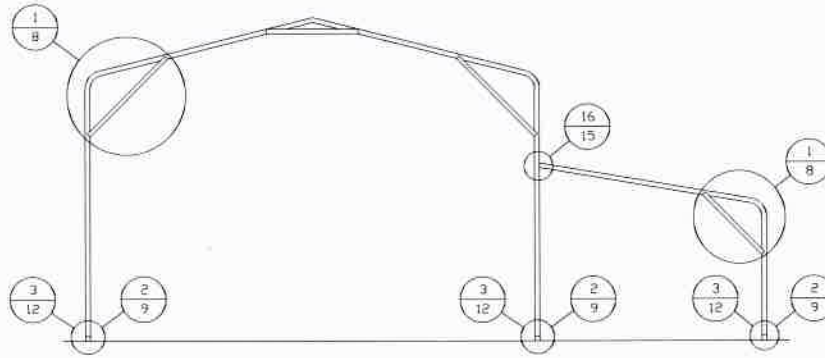
DWG. NO: SK-3

**JOB NO: 18068S
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BOW EAVE RAFTER LEAN-TO OPTIONS



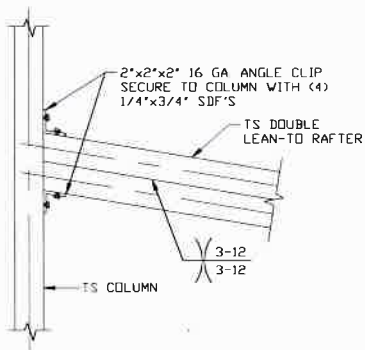
TYPICAL BOW EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION

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"

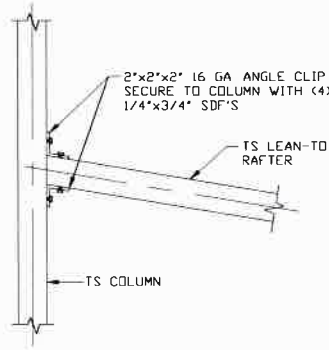
FOR SHARED COLUMN HEIGHTS REFERENCE RAFTER COLUMN CONNECTION DETAILS FOR APPROPRIATE COLUMN HEIGHT AND TUBING SPECIFICATIONS.



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

16

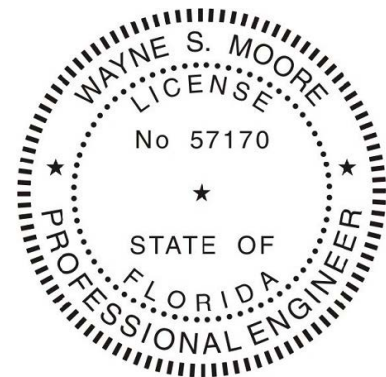
SCALE: NTS



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

16A

SCALE: NTS



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SHT. 15

SCALE: NTS

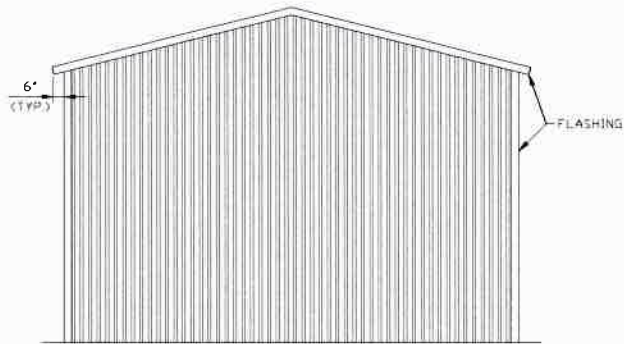
DWG. NO: SK-3

**JOB NO: 18069S
18156S/18290S/20019S**

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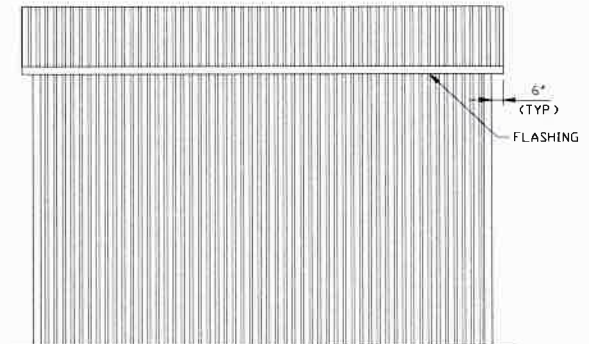
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BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



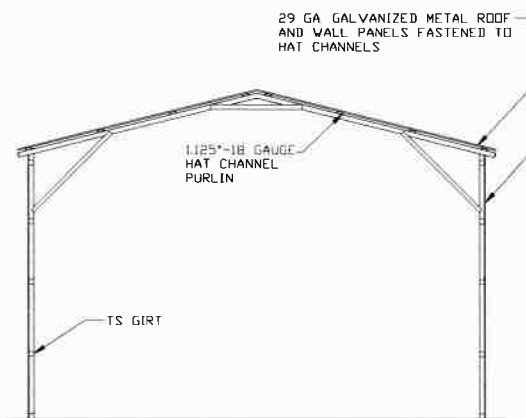
**TYPICAL END ELEVATION
VERTICAL ROOF/SIDING**

SCALE: NTS



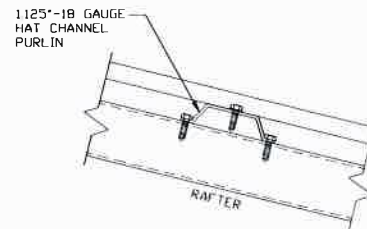
**TYPICAL SIDE ELEVATION
VERTICAL ROOF/SIDING**

SCALE: NTS



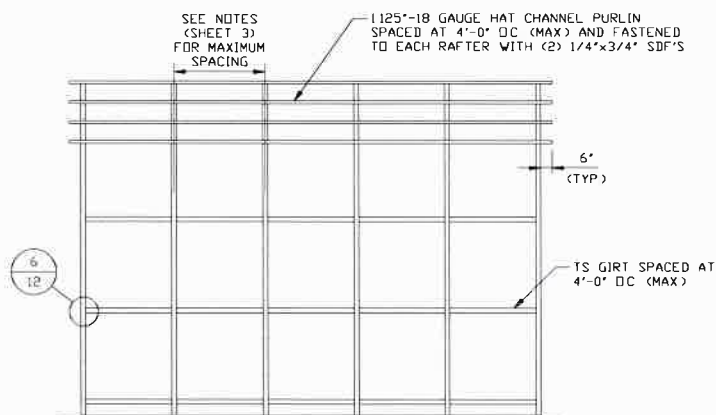
**TYPICAL SECTION
VERTICAL ROOF/SIDING OPTION**

SCALE: NTS



PANEL ATTACHMENT

(ALTERNATE FOR VERTICAL ROOF PANELS)
SCALE: NTS



**TYPICAL FRAMING SECTION
VERTICAL ROOF/SIDING OPTION**

SCALE: NTS



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SCALE: NTS

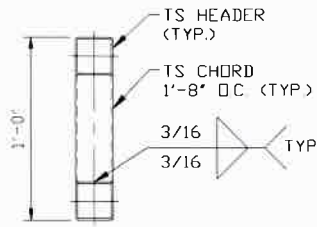
DWG. NO: SK-3

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18156S/18290S/20019S**

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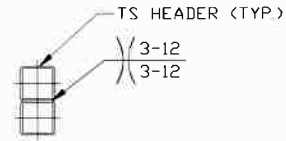
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SIDE WALL HEADER OPTIONS



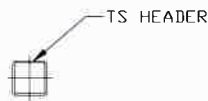
**LACED HEADER DETAIL FOR DOOR
OPENINGS 12'-0" < LENGTH ≤ 20'-0"**

SCALE: NTS



**DOUBLE HEADER DETAIL FOR DOOR
OPENINGS 7'-0" < LENGTH ≤ 12'-0"**

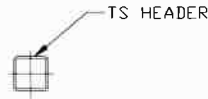
SCALE: NTS



**SINGLE HEADER DETAIL FOR
DOOR OPENINGS LENGTH ≤ 7'-0"**

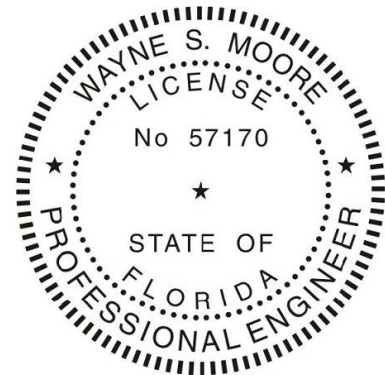
SCALE: NTS

END WALL HEADER OPTIONS



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

SCALE: NTS



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30'-0"x20'-0" ENCLOSED STRUCTURE

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SCALE: NTS

**JOB NO: 18068S
18156S/18290S/20019S**

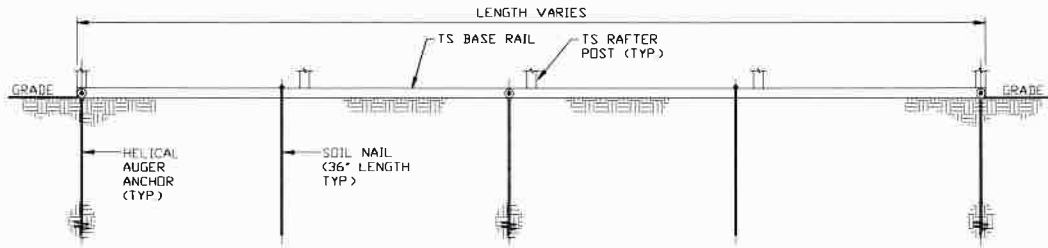
SHT. 17

DWG. NO: SK-3

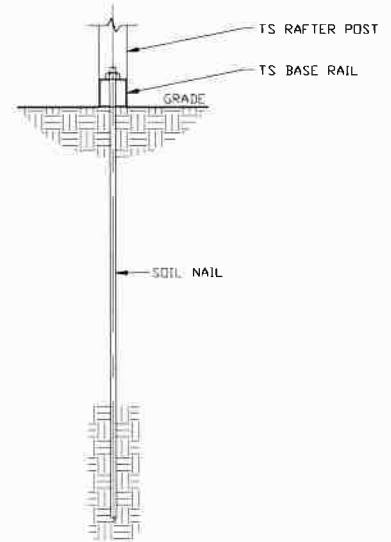
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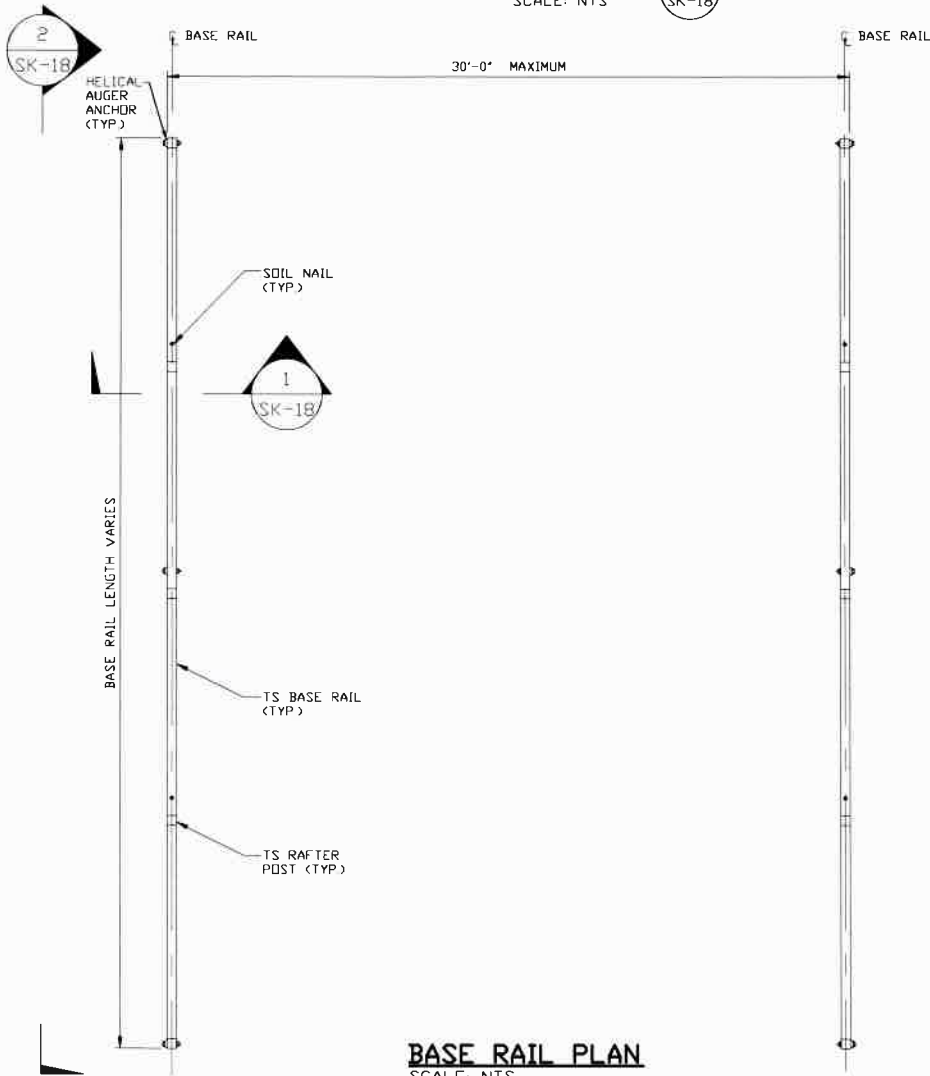
OPTIONAL BASE RAIL ON GRADE APPLICATION



SECTION 2
SCALE: NTS (SK-18)

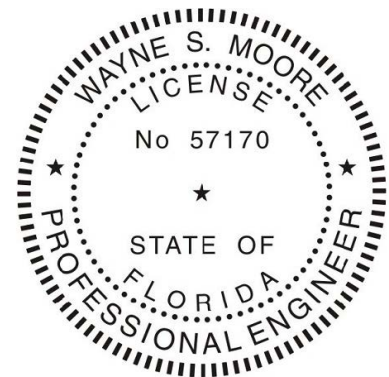


SECTION 1
SCALE: NTS (SK-18)



BASE RAIL PLAN
SCALE: NTS

HELIX ANCHOR	
SIDE LENGTH	MAXIMUM SPACING
VARIES	10'-0" (EVERY OTHER POST)



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SCALE: NTS

**JOB NO: 18068S
18156S/18290S/20019S**

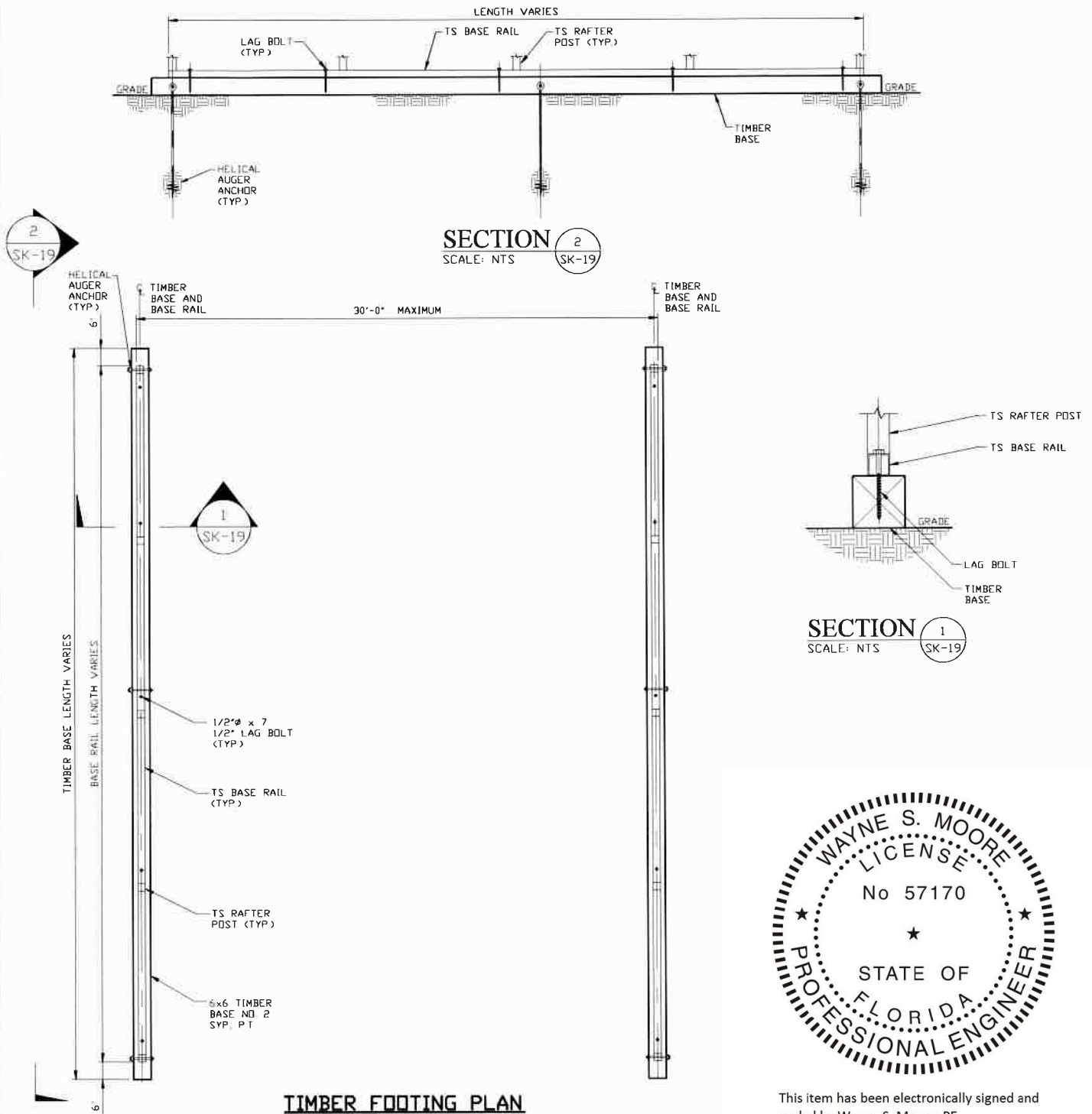
SHT. 18

DWG. NO: SK-3

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OPTIONAL BASE RAIL ON TIMBER BEAM



TIMBER FOOTING PLAN
SCALE: NTS

HELIX ANCHOR	
SIDE LENGTH	MAXIMUM SPACING
VARIES	10'-0" (EVERY OTHER POST)

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P.O. BOX 1287,
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30'-0"x20'-0" ENCLOSED STRUCTURE

DATE: 2-14-20

SCALE: NTS

DWG. NO: SK-3

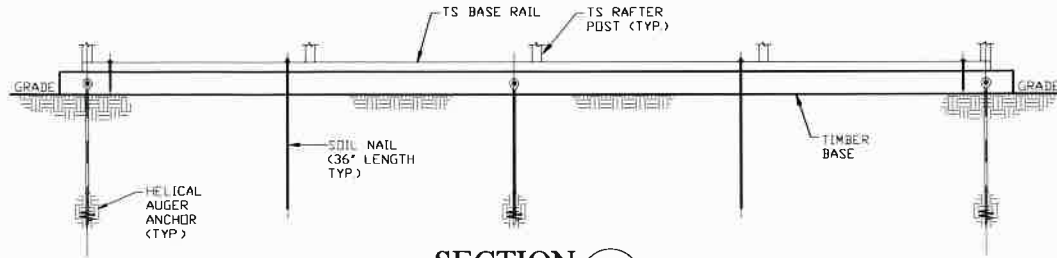
**JOB NO: 18068S
18156S/18290S/20019S**

SHT. 19

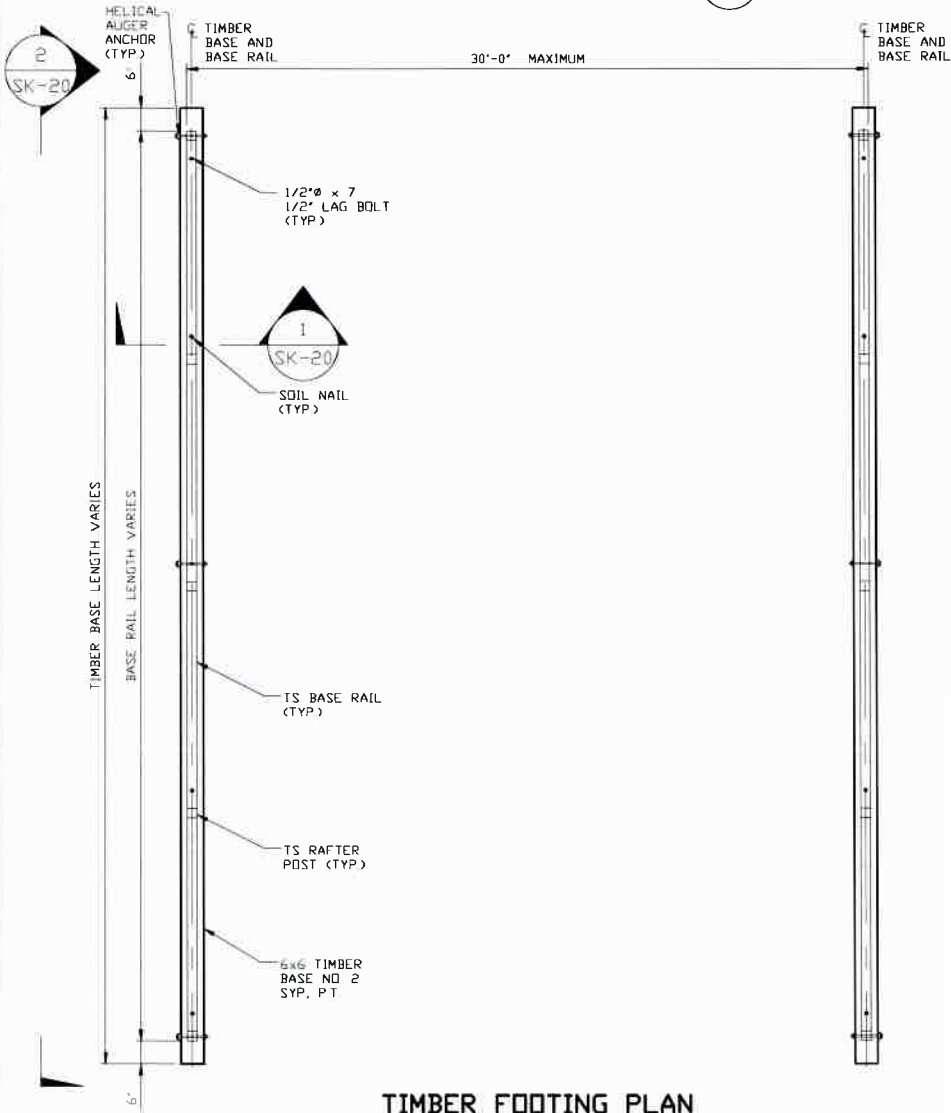
REV. 8

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OPTIONAL BASE RAIL ON TIMBER BEAM WITH SOIL NAIL

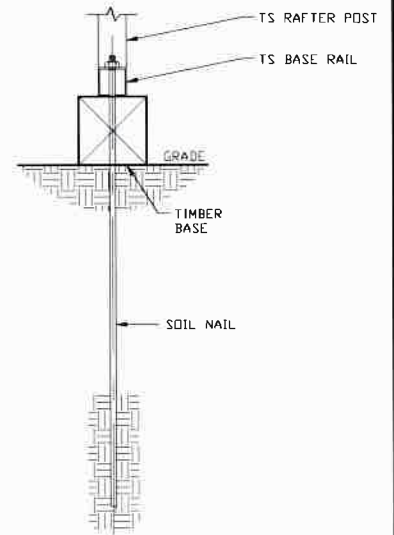


SECTION 2
SCALE: NTS

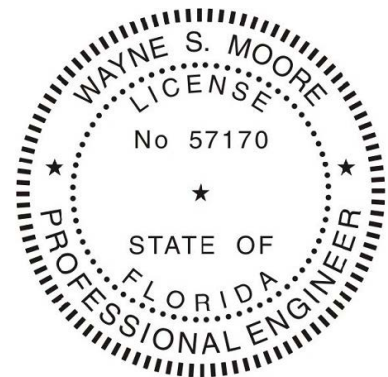


TIMBER FOOTING PLAN
SCALE: NTS

HELIX ANCHOR	
SIDE LENGTH	MAXIMUM SPACING
VARIES	10'-0" (EVERY OTHER POST)



SECTION 1
SCALE: NTS



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SHT. 20

SCALE: NTS

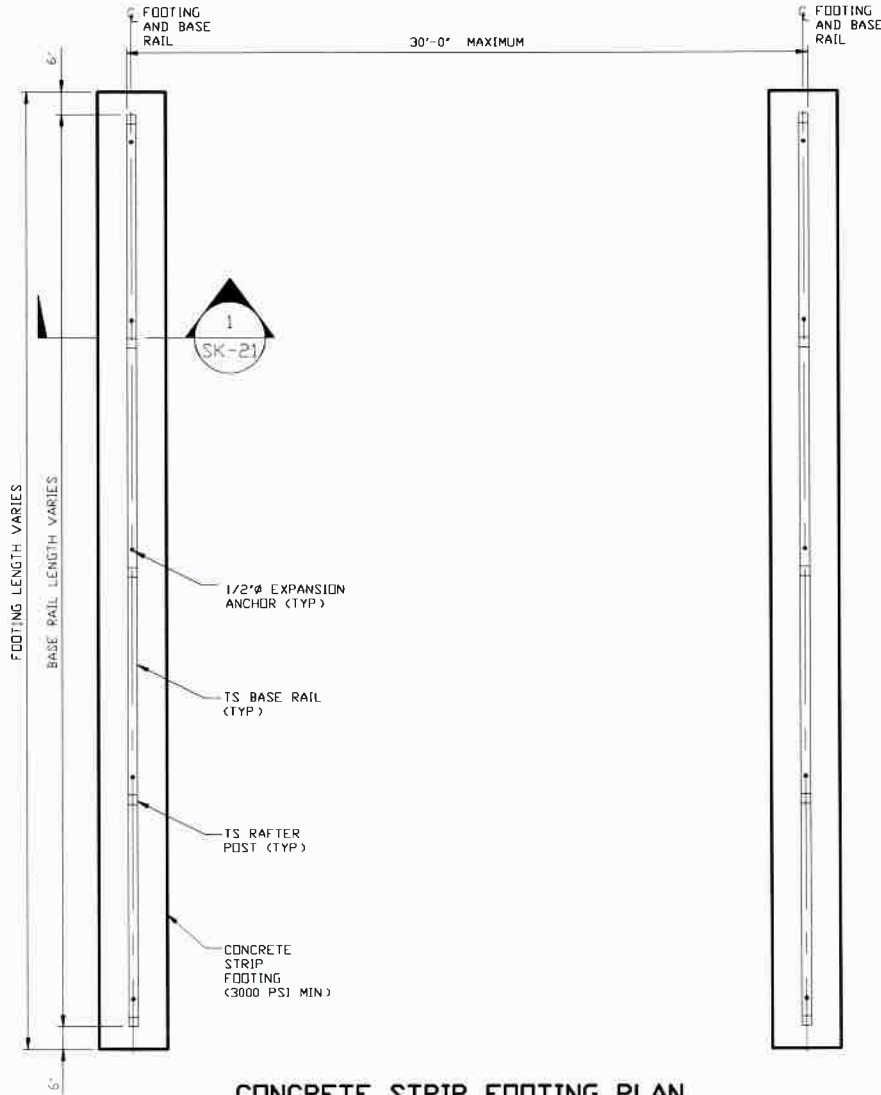
DWG. NO: SK-3

JOB NO: 18068S
18156S/18290S/20019S

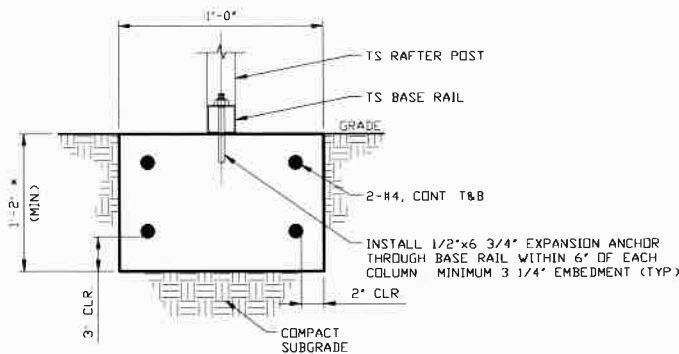
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OPTIONAL CONCRETE STRIP FOOTING

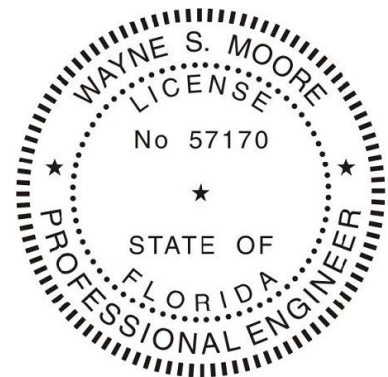


CONCRETE STRIP FOOTING PLAN
SCALE: NTS



SECTION 1
SCALE: NTS

* COORDINATE WITH LOCAL CODES/ORD



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SHT. 21

SCALE: NTS

DWG. NO: SK-3

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