



STRUCTURAL DESIGN FULLY OPEN (CARPORT) BUILDING

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

11 December 2020

Revision 9

M&A Project No.

16062S/16155S/16207S/17155S/17200S/18068S/18156S/18290S/20019S/20324S

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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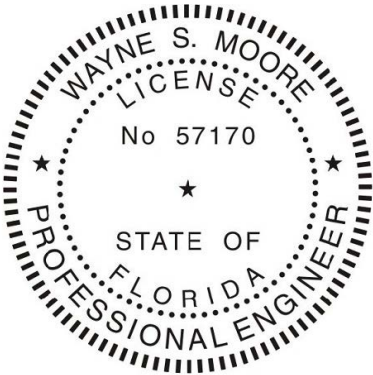


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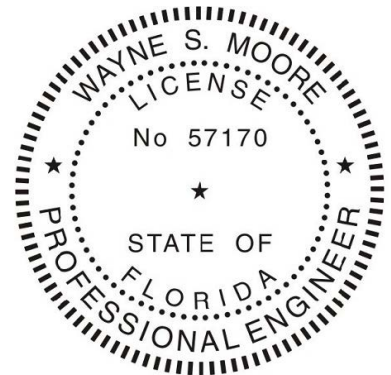
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	PROJECT MGR: WSM		30'-0"x20'-0" FULLY OPEN STRUCTURE			
	CLIENT: SBSI		DATE: 12-11-20	SCALE: NTS	JOB NO: 18068S/18156S	18290S/20019S/20324S
	SHT. 1A	DWG. NO: SK-1	REV: 9			

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SHT. 2

DWG. NO: SK-1

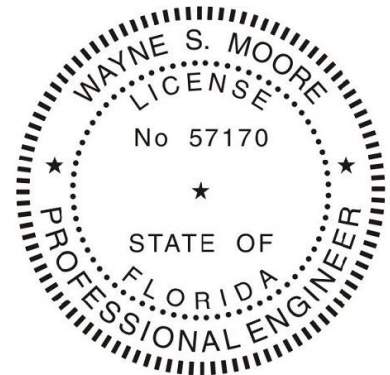
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INSTALLATION NOTES AND SPECIFICATIONS

1. DESIGN IS FOR MAXIMUM 30'-0" WIDE x 20'-0" EAVE HEIGHT OPEN CARPORT STRUCTURES.
2. DESIGN WAS DONE IN ACCORDANCE WITH THE 2020 FLORIDA BUILDING CODE (FBC) 7TH 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
 $R = 3.25$ $I_E = 1.0$
 $S_{DS} = 2.039 \text{ g}$ $V = C_S W$
 $S_{D1} = 1.258 \text{ g}$



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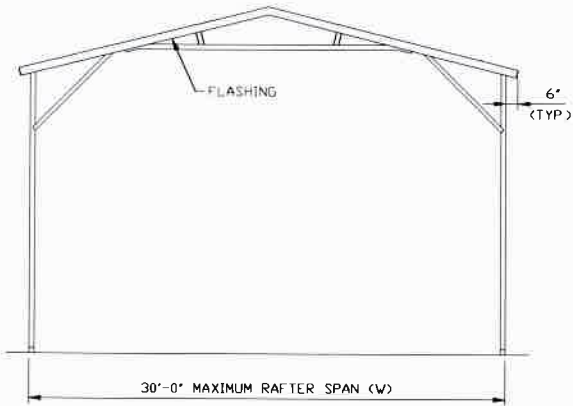
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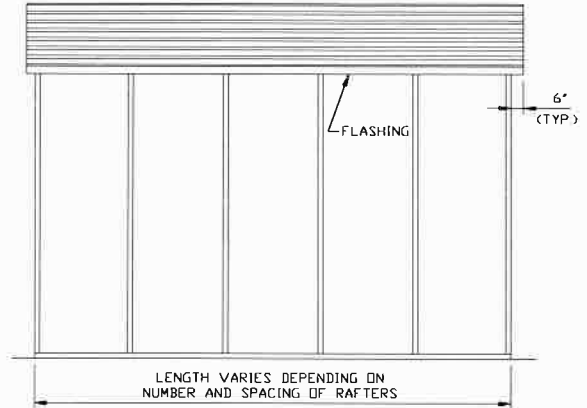
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BOX EAVE FRAME RAFTER STRUCTURE



TYPICAL END ELEVATION

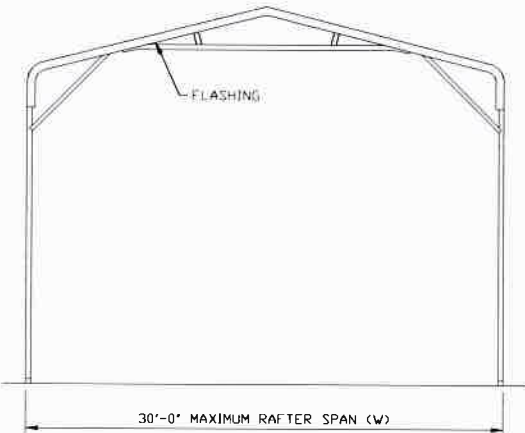
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TYPICAL SIDE ELEVATION

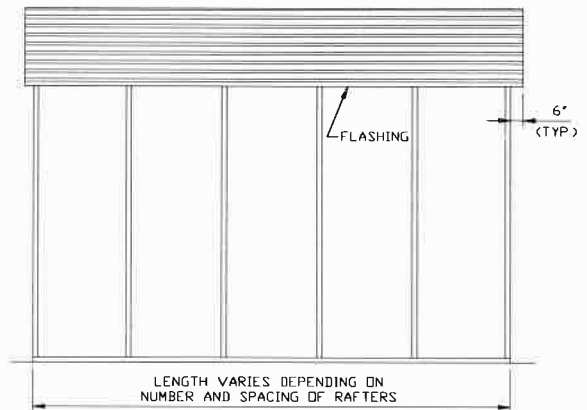
SCALE: NTS

BOW EAVE FRAME RAFTER STRUCTURE



TYPICAL END ELEVATION

SCALE: NTS



TYPICAL SIDE ELEVATION

SCALE: NTS



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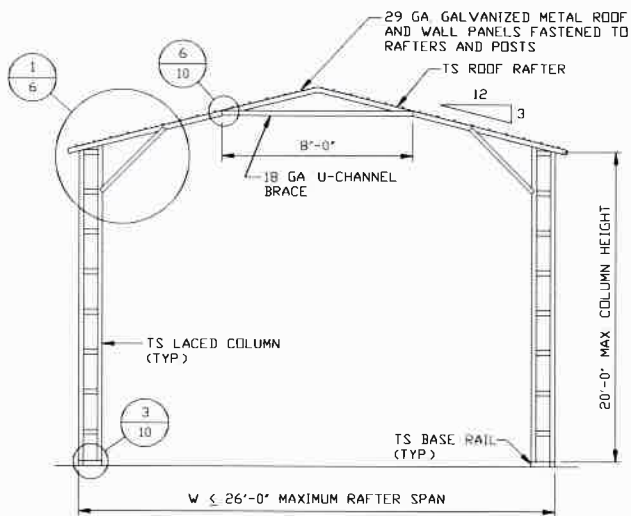
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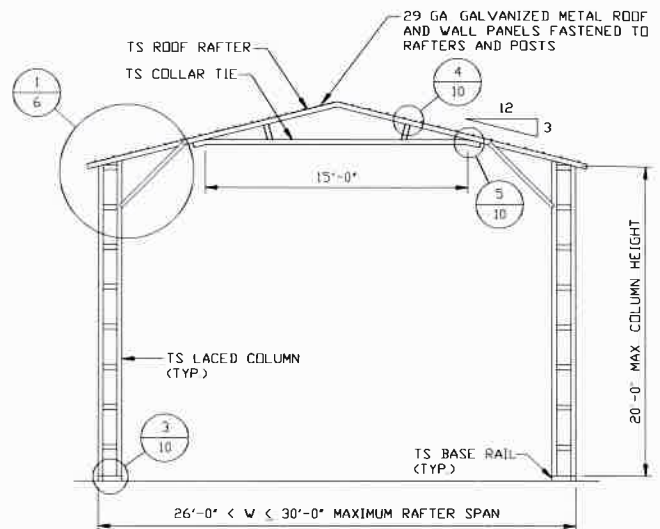
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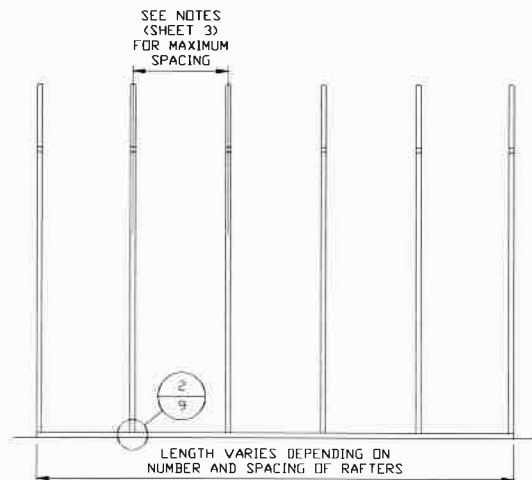
TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

SCALE: NTS



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SHT. 5

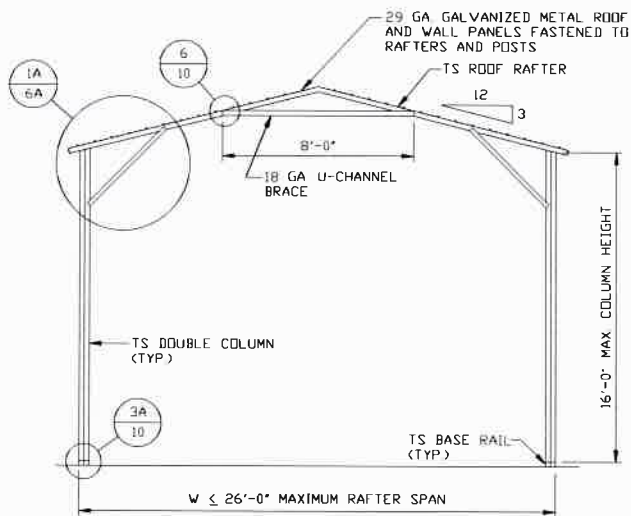
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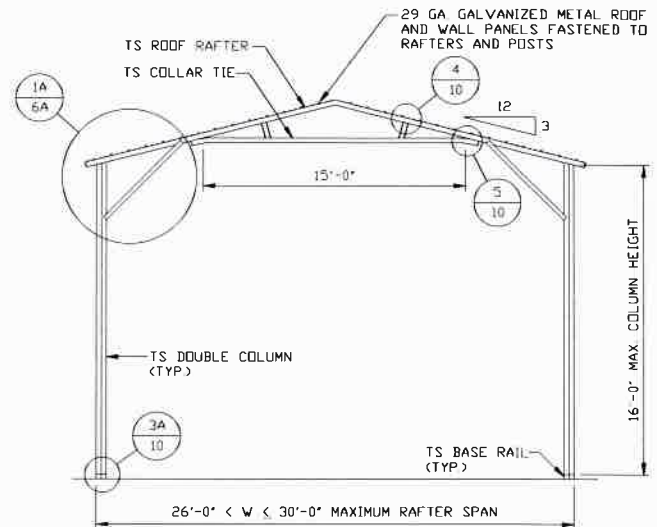
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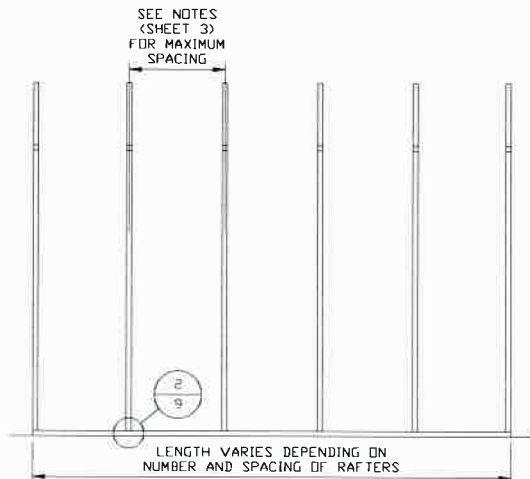
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SHT. 5A

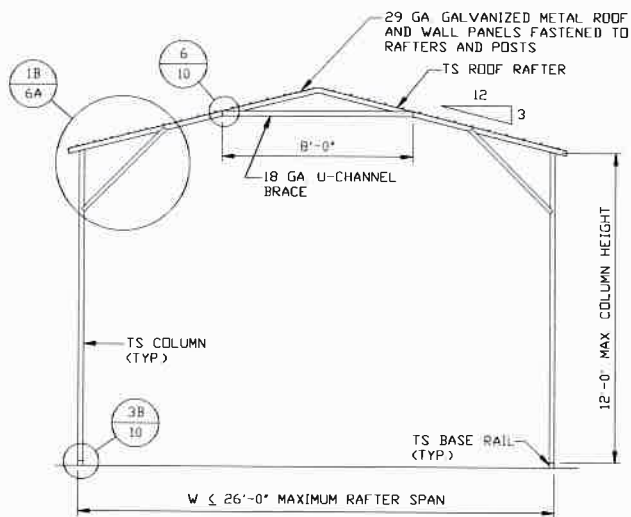
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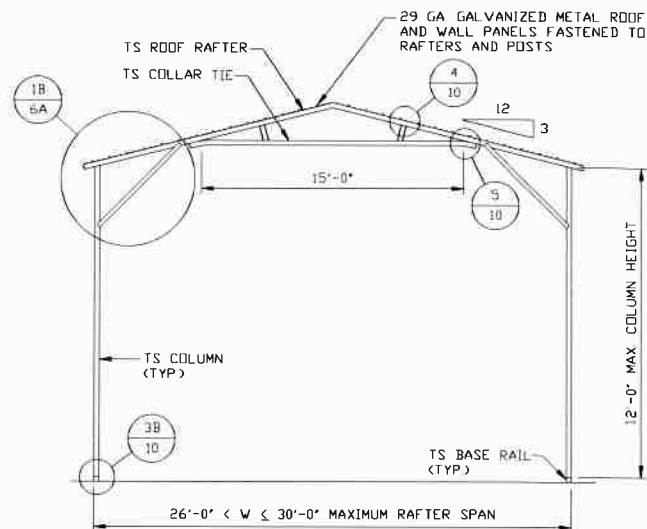
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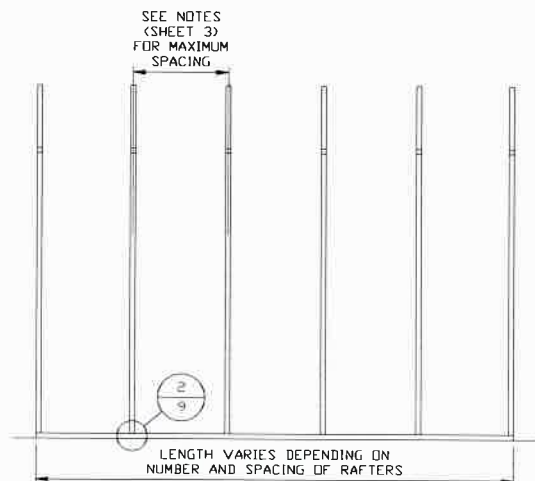
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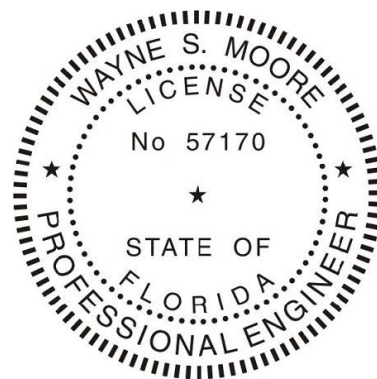
TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
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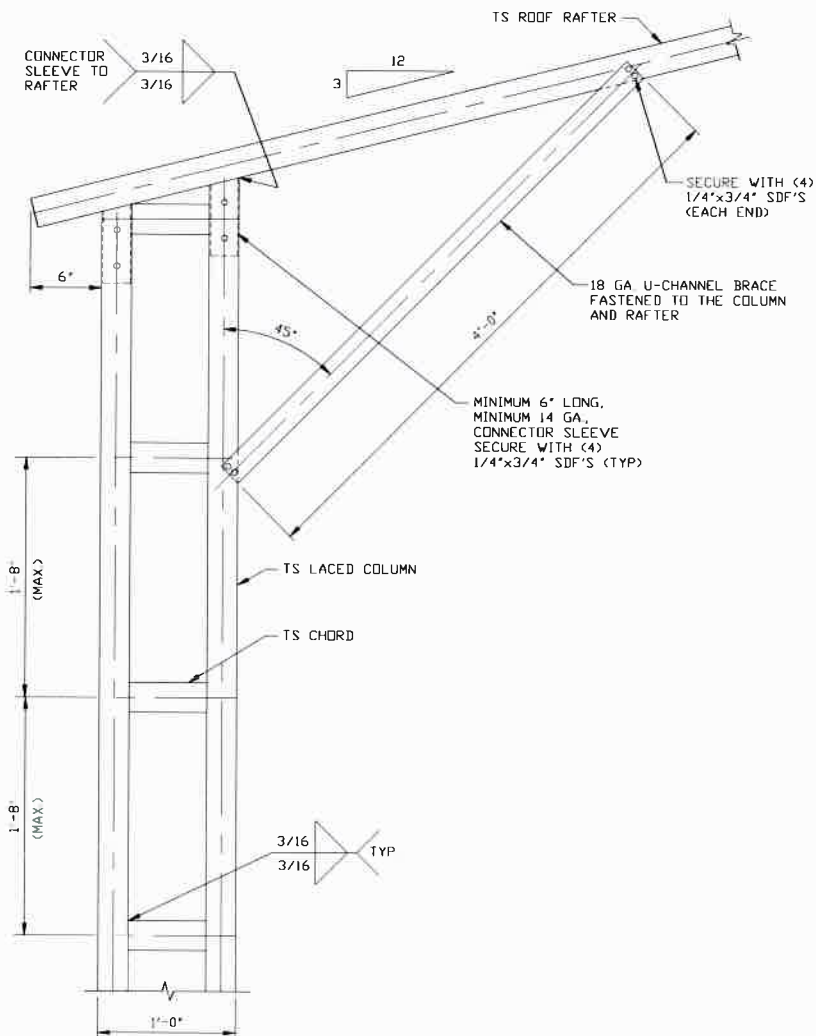
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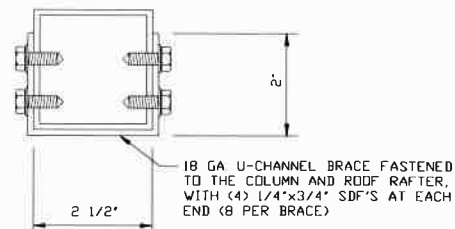
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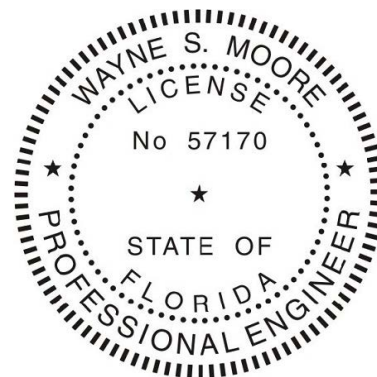
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**BOX EAVE RAFTER/CORNER POST
CONNECTION DETAIL
FOR HEIGHTS 16'-0" < TO ≤ 20'-0"**
SCALE: NTS



BRACE SECTION
SCALE: NTS



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SHT. 6

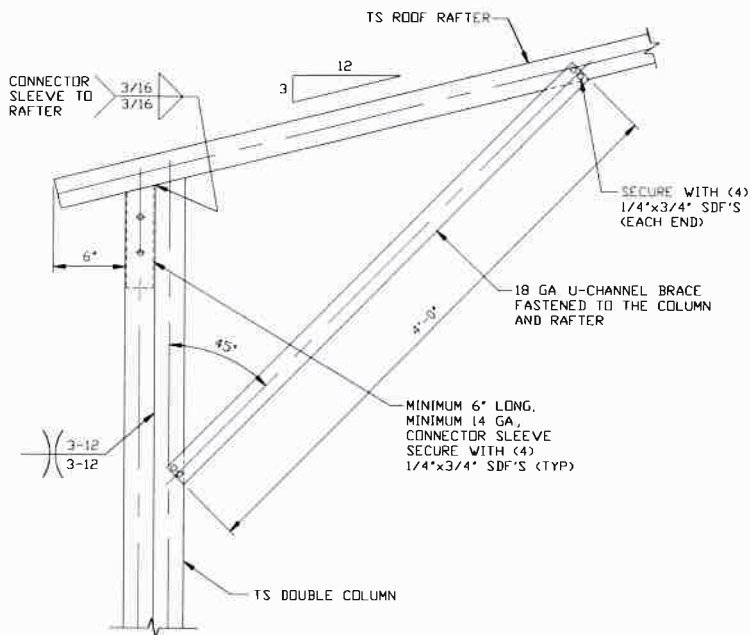
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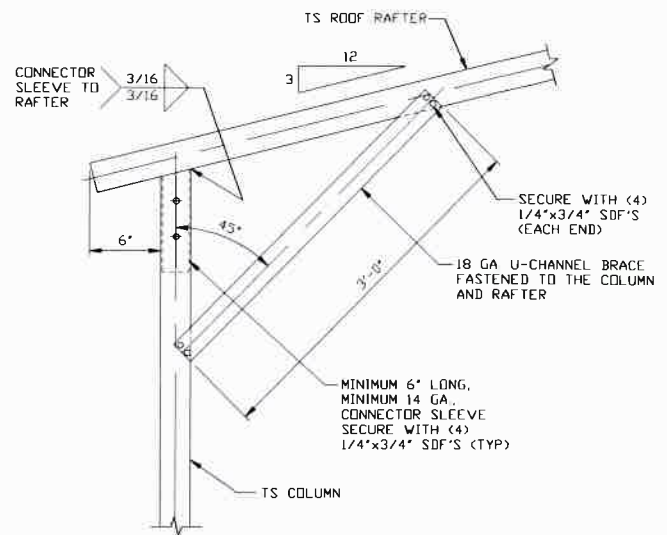
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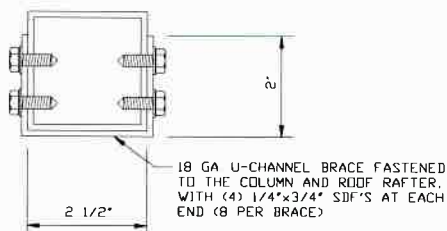
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**BOX EAVE RAFTER/CORNER POST
CONNECTION DETAIL
FOR HEIGHTS 12'-0" < TO ≤ 16'-0"**
SCALE: NTS



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



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SHT. 6A

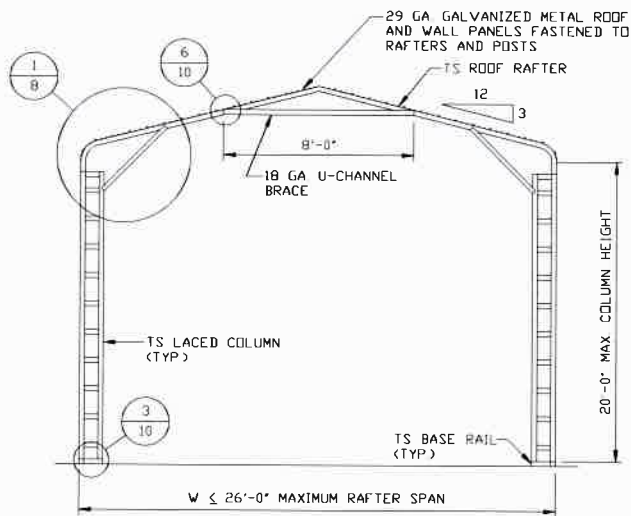
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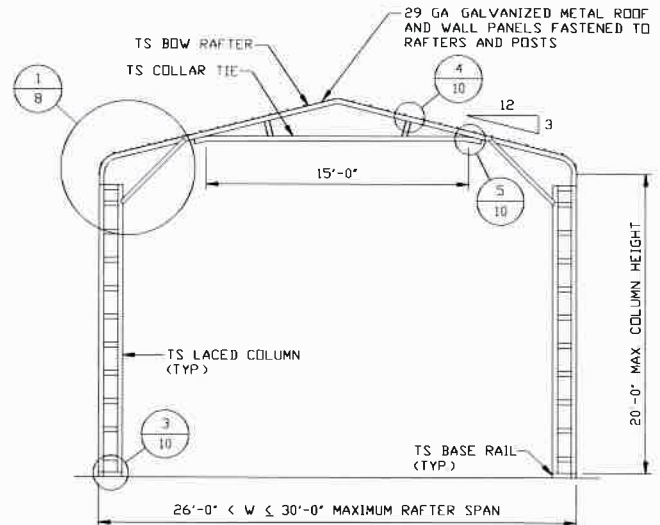
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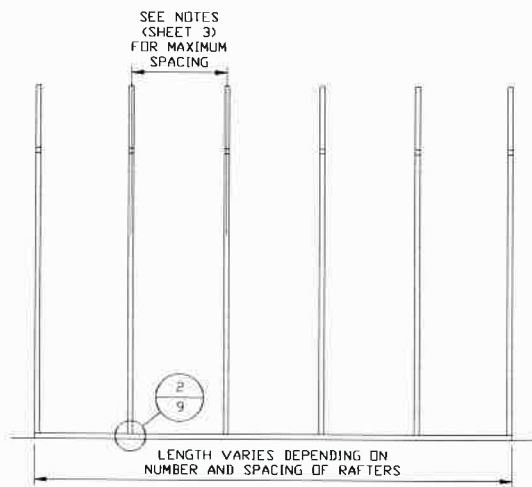
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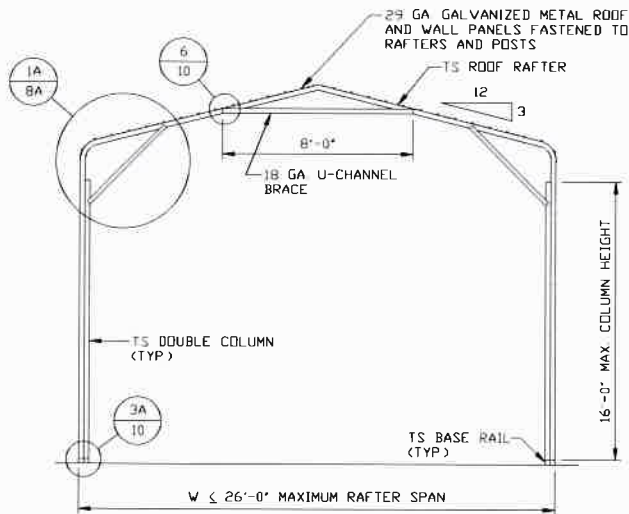
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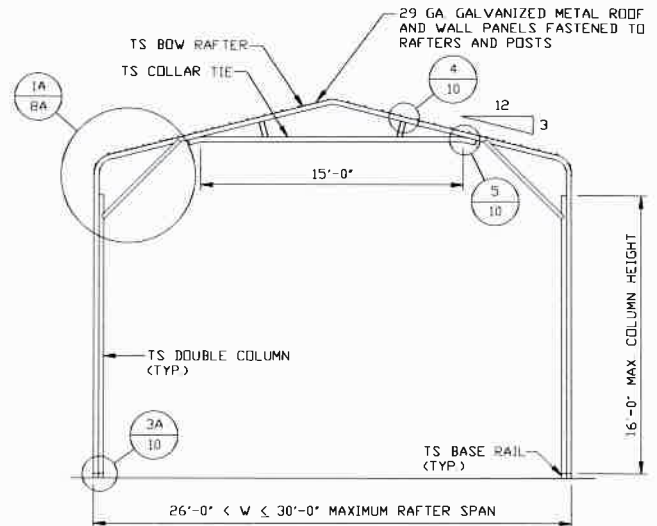
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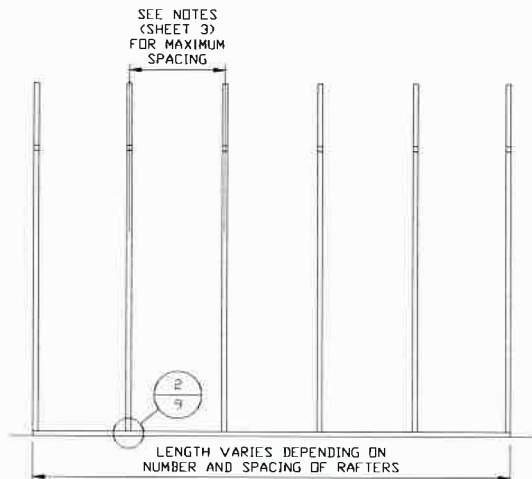
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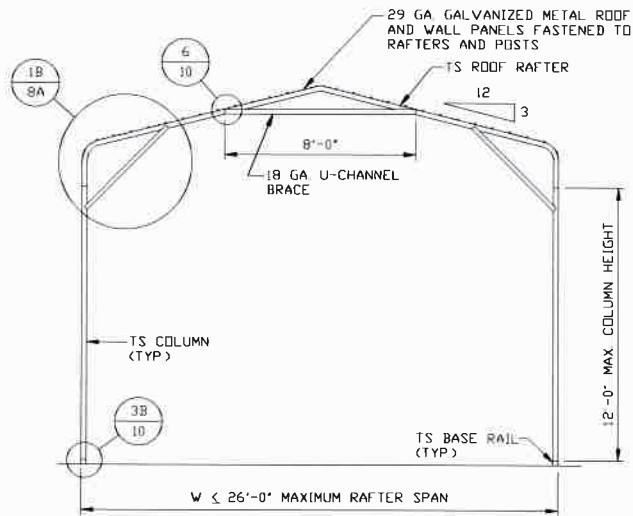
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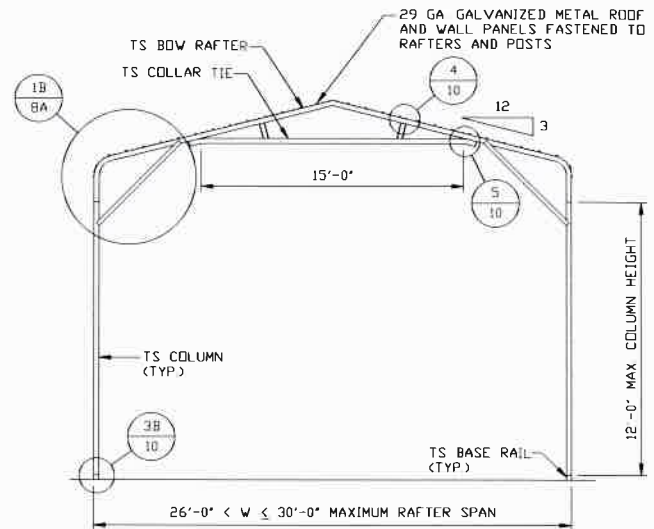
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18290S/20019S/20324S**

REV: 9

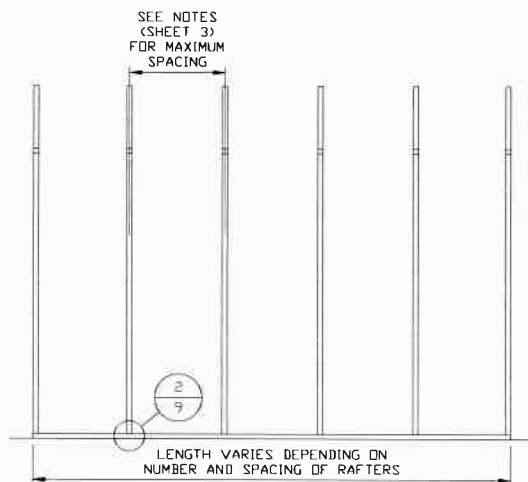
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TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
SCALE: NTS



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CLIENT: SBSI

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

DATE: 12-11-20

SHT. 7B

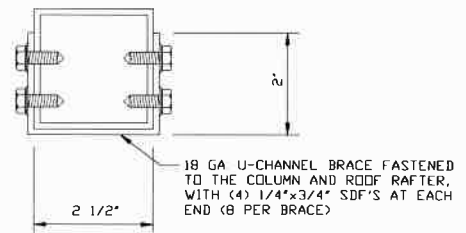
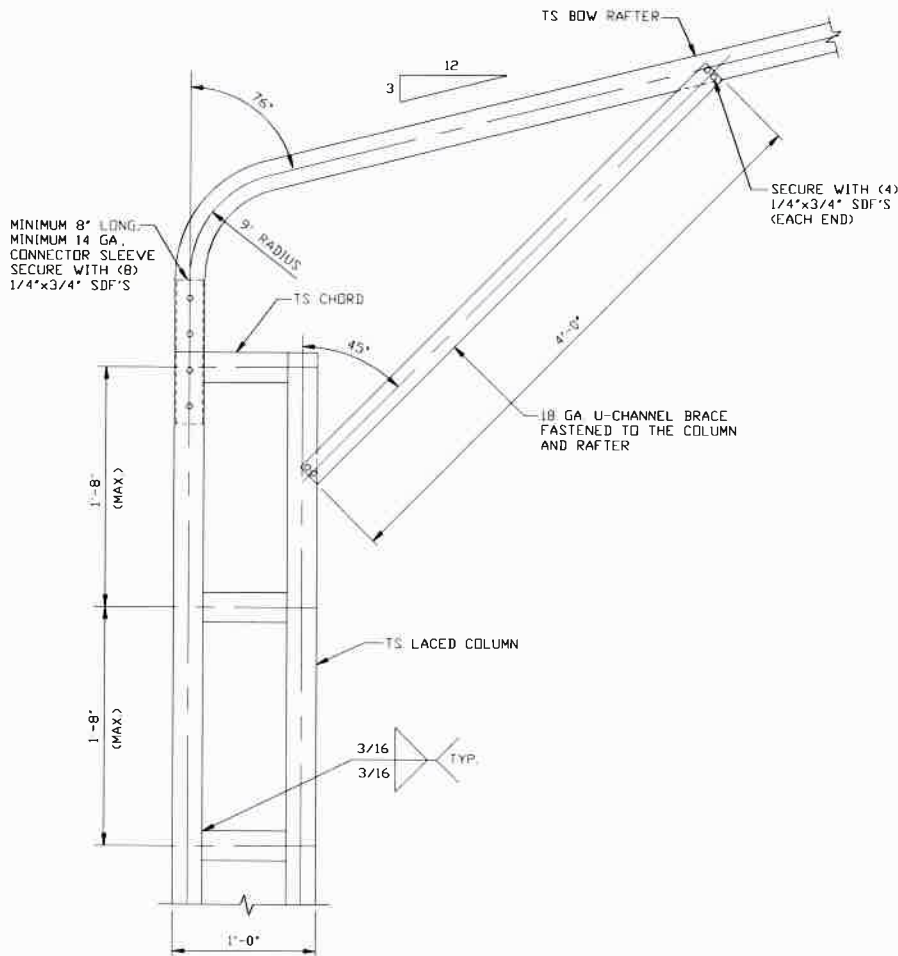
SCALE: NTS

DWG. NO: SK-1

**JOB NO: 18068S/18156S
18290S/20019S/20324S**

REV: 9

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BRACE SECTION
SCALE: NTS

1
BOW EAVE RAFTER/CORNER POST CONNECTION DETAIL
FOR HEIGHTS 16'-0\"



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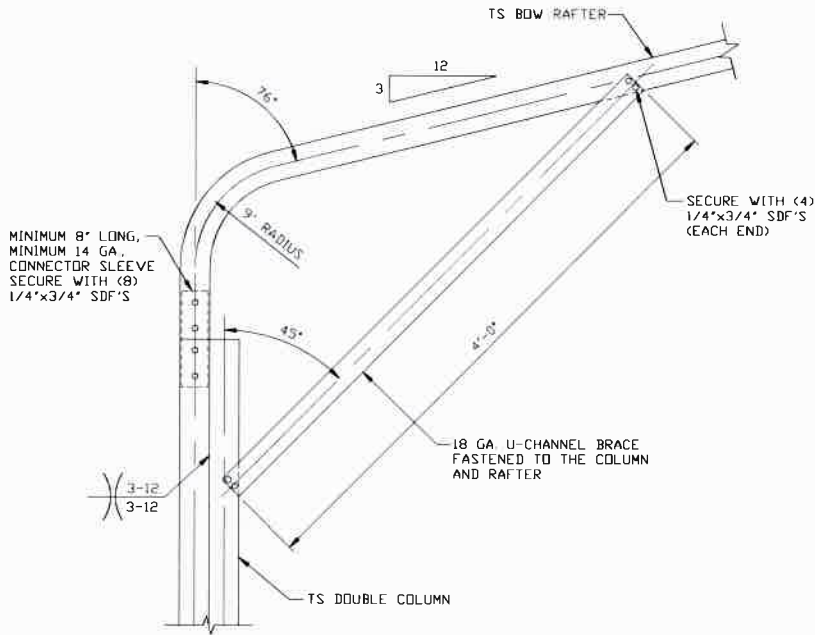
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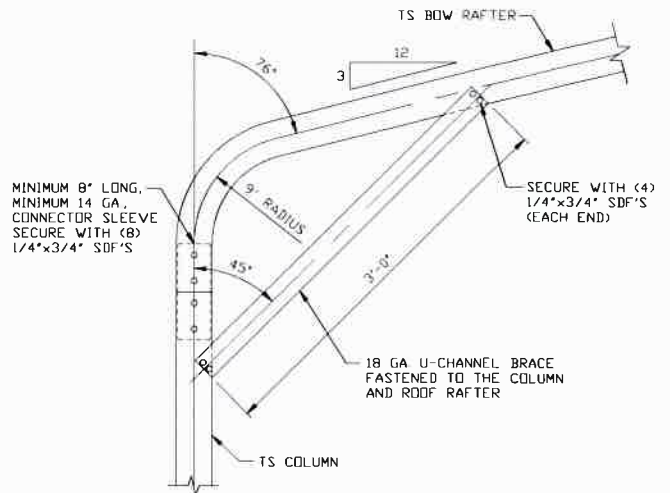
JOB NO: 18068S/18156S
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REV: 9

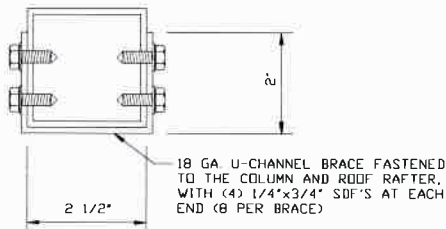
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**BOW EAVE RAFTER/CORNER POST
CONNECTION DETAIL
FOR HEIGHTS 12'-0" < TO <= 16'-0"**
SCALE: NTS



**BOW EAVE RAFTER/CORNER POST
CONNECTION DETAIL
FOR HEIGHTS <= 12'-0"**
SCALE: NTS



BRACE SECTION
SCALE: NTS



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SCALE: NTS

SHT. 8A

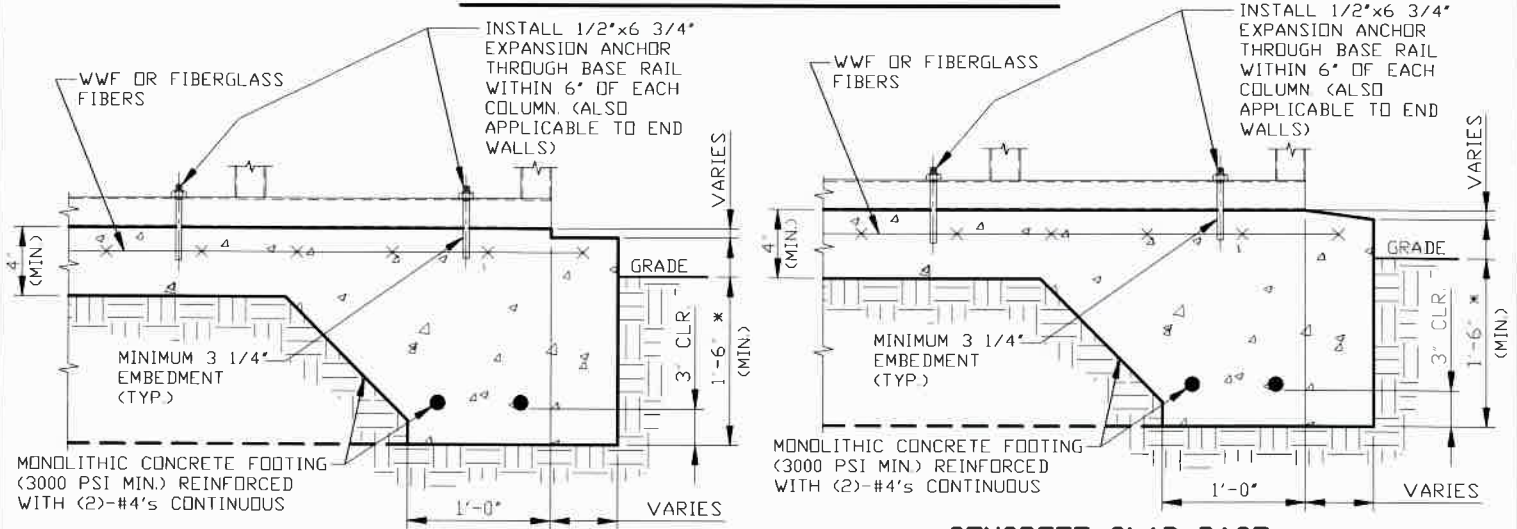
DWG. NO: SK-1

**JOB NO: 18068S/18156S
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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:

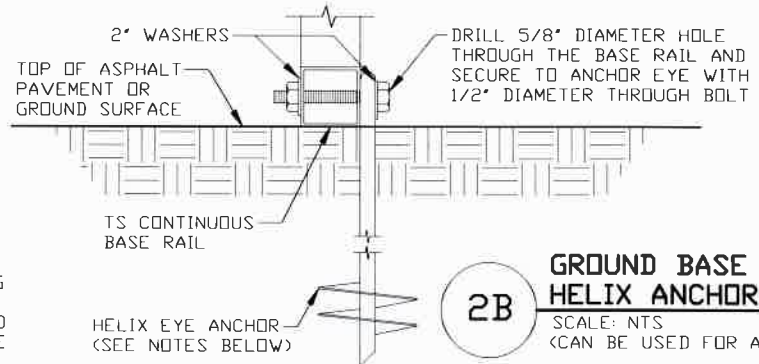
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT

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 LOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER CLAYS AND SILTS, ALLUVIAL FILL, USE MINIMUM (2) 8" HELICES WITH MINIMUM 60" EMBEDMENT.



2B

GROUND BASE HELIX ANCHORAGE

SCALE: NTS

(CAN BE USED FOR ASPHALT)



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SCALE: NTS

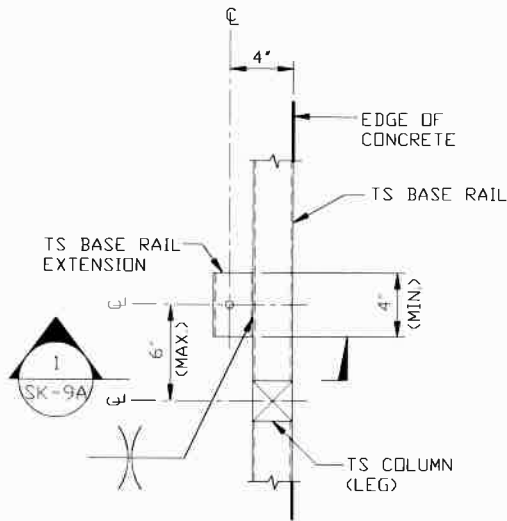
DWG. NO: SK-1

JOB NO: 18068S/18156S
18290S/20019S/20324S

REV: 9

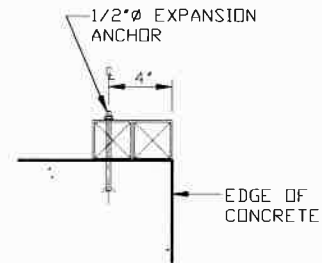
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ADDITIONAL BASE RAIL ANCHORAGE OPTION



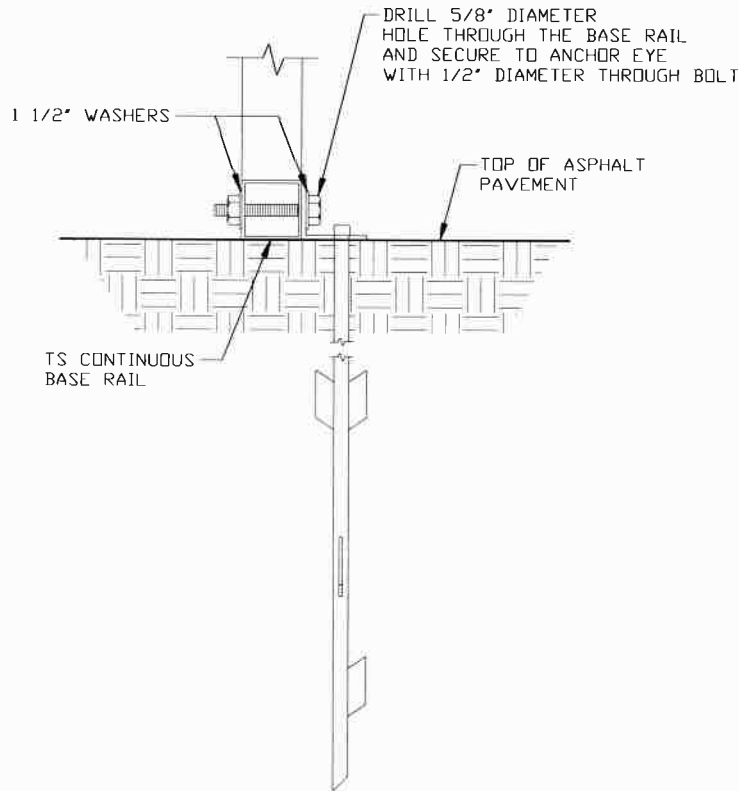
TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE

SCALE: NTS



SECTION 1

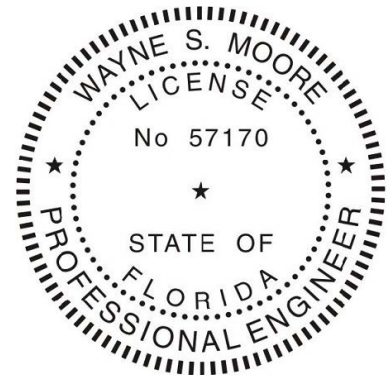
SCALE: NTS



2C

ASPHALT BASE ANCHORAGE

SCALE: NTS



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SCALE: NTS

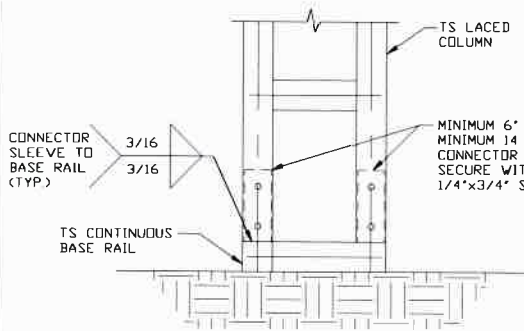
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**JOB NO: 18068S/18156S
18290S/20019S/20324S**

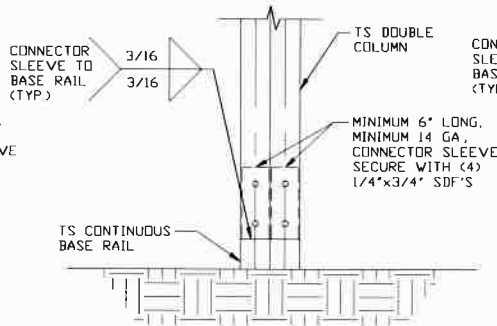
REV: 9

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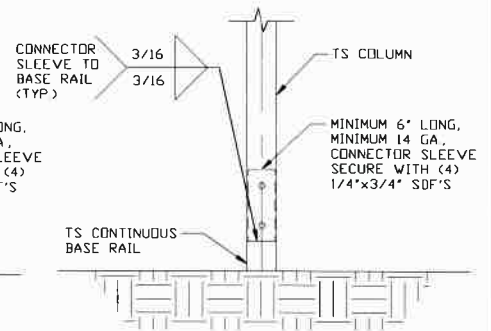
CONNECTION DETAILS



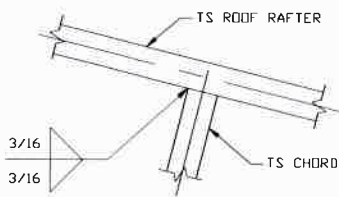
3 POST/BASE RAIL CONNECTION DETAIL
SCALE: NTS



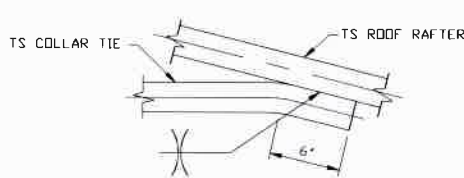
3A POST/BASE RAIL CONNECTION DETAIL
SCALE: NTS



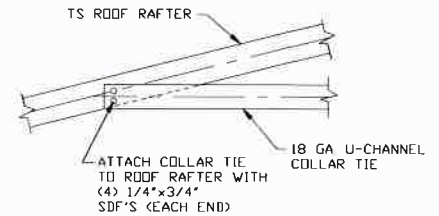
3B POST/BASE RAIL CONNECTION DETAIL
SCALE: NTS



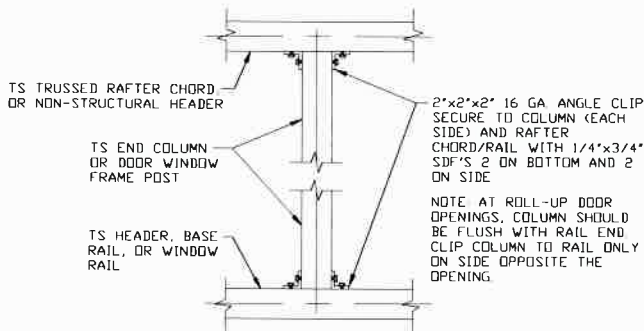
4 RAFTER TO CHORD CONNECTION DETAIL
SCALE: NTS



5 COLLAR TIE CONNECTION DETAIL
SCALE: NTS



6 COLLAR TIE CONNECTION DETAIL
SCALE: NTS



7 COLUMN TO HEADER, BASE RAIL, OR WINDOW RAIL CONNECTION DETAIL
SCALE: NTS



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SHT. 10

SCALE: NTS

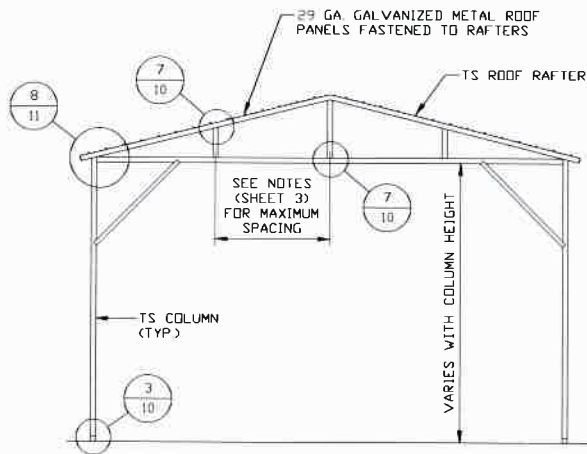
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**JOB NO: 18068S/18156S
18290S/20019S/20324S**

REV: 9

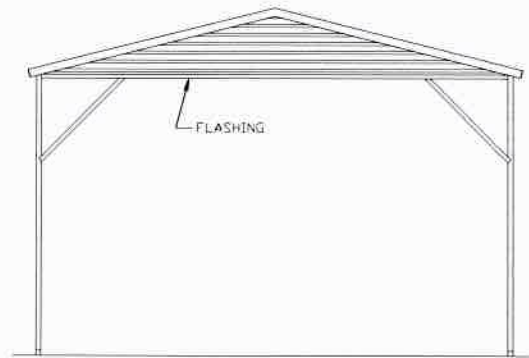
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BOX EAVE GABLE END OPTION



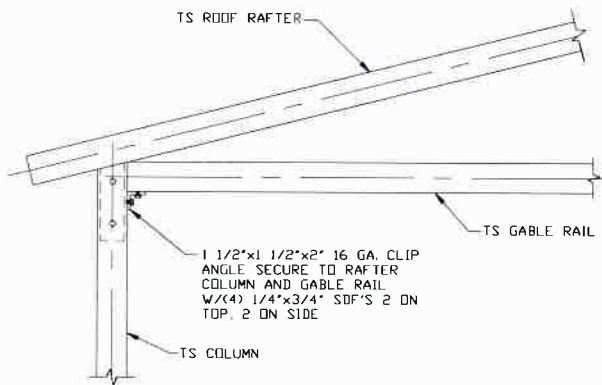
TYPICAL GABLE END FRAMING SECTION

SCALE: NTS



TYPICAL GABLE END ELEVATION

SCALE: NTS

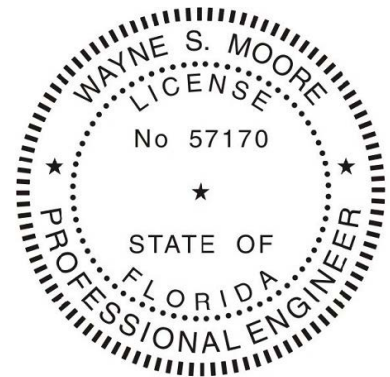


BOX EAVE RAFTER GABLE RAIL TO RAFTER COLUMN CONNECTION DETAIL

SCALE: NTS

NOTE: KNEE BRACE NOT SHOWN FOR CLARITY

8



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SCALE: NTS

DWG. NO: SK-1

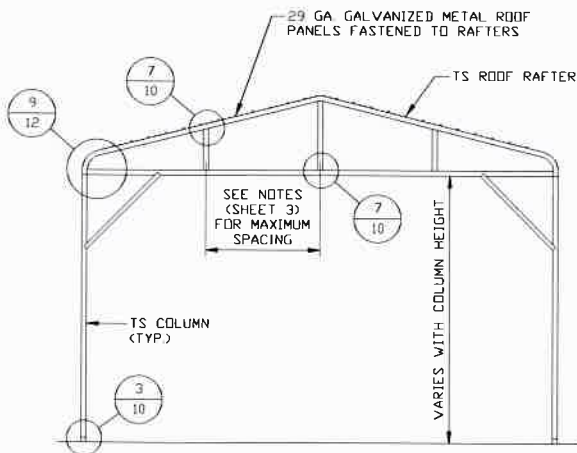
JOB NO: 18068S/18156S
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SHT. 11

REV: 9

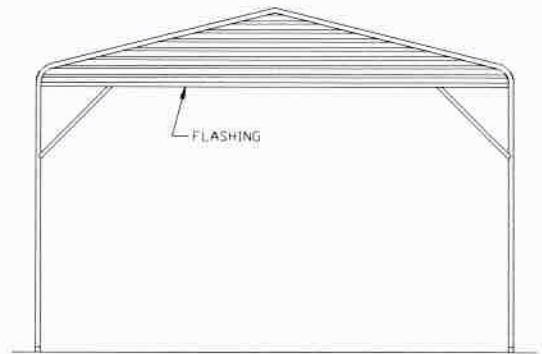
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BOW EAVE GABLE END OPTION



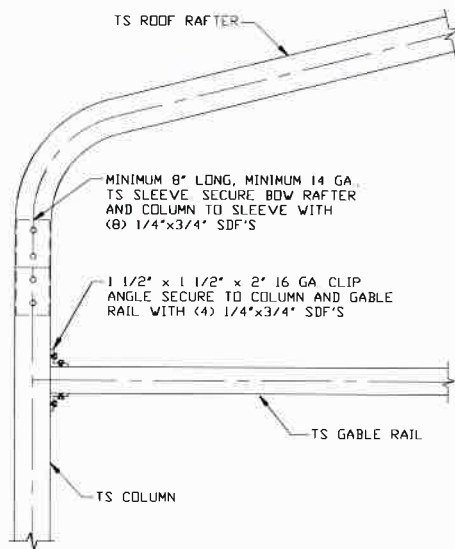
TYPICAL GABLE END FRAMING SECTION

SCALE: NTS



TYPICAL GABLE END ELEVATION

SCALE: NTS



BOW EAVE RAFTER GABLE RAIL TO RAFTER COLUMN CONNECTION DETAIL

SCALE: NTS

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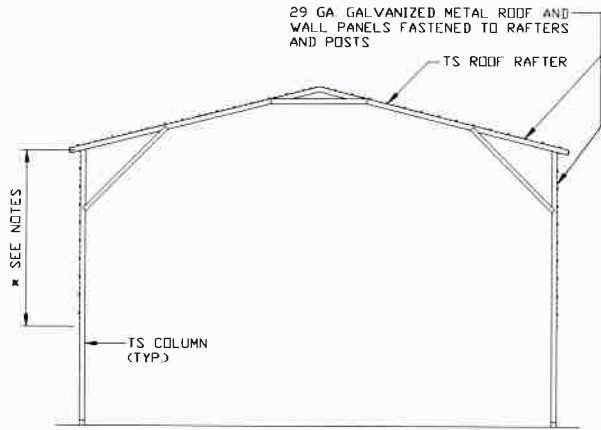
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SHT. 12

REV: 9

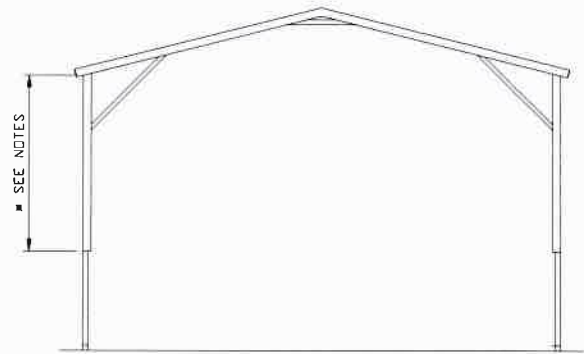
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BOX EAVE EXTRA SIDE PANEL OPTION



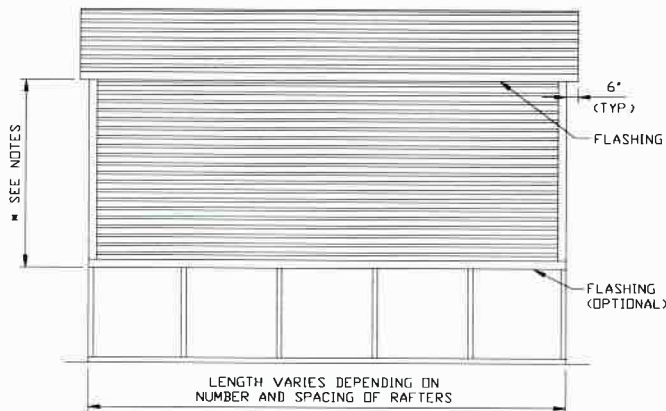
**TYPICAL END FRAME SECTION
EXTRA SIDE PANELS**

SCALE: NTS



**TYPICAL END ELEVATION
EXTRA SIDE PANELS**

SCALE: NTS

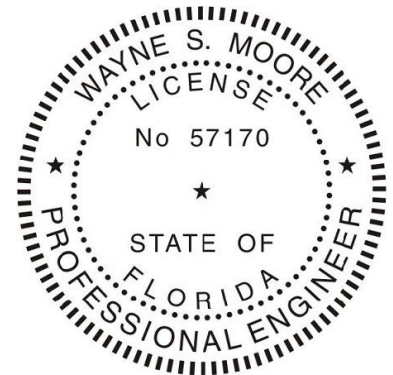


**TYPICAL SIDE ELEVATION
EXTRA SIDE PANELS**

SCALE: NTS

NOTES:

- * FULL SIDING (FOR EAVE HEIGHTS 12'-0" < TO ≤ 20'-0")
- * NO SIDING (FOR EAVE HEIGHTS 10'-0" < TO ≤ 12'-0" WITH SINGLE COLUMN CONFIGURATION)
- * 3'-0" MAX. (FOR EAVE HEIGHTS < 10'-0")



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SHT. 13

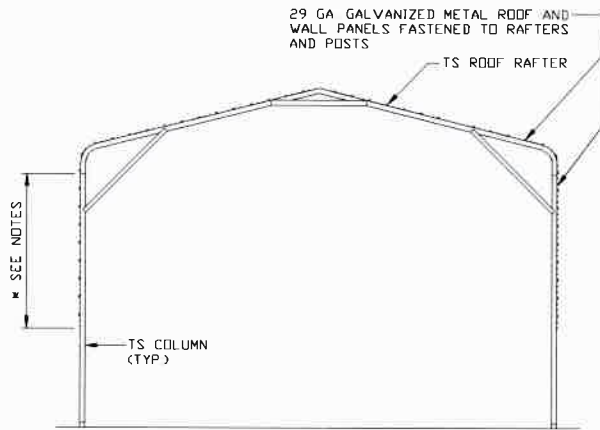
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DWG. NO: SK-1

**JOB NO: 18068S/18156S
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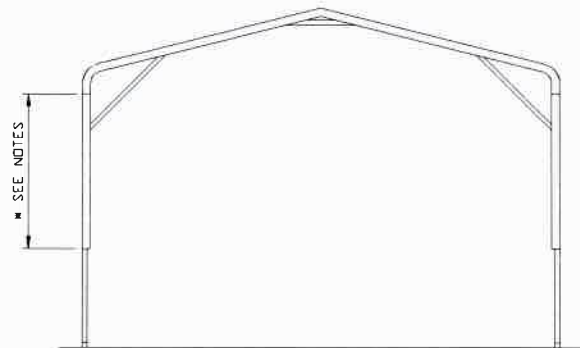
REV: 9

BOW EAVE EXTRA SIDE PANEL OPTION



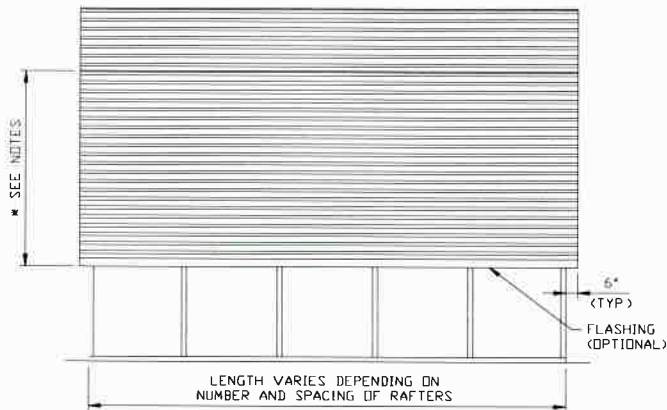
**TYPICAL END FRAME SECTION
EXTRA SIDE PANELS**

SCALE: NTS



**TYPICAL END ELEVATION
EXTRA SIDE PANELS**

SCALE: NTS

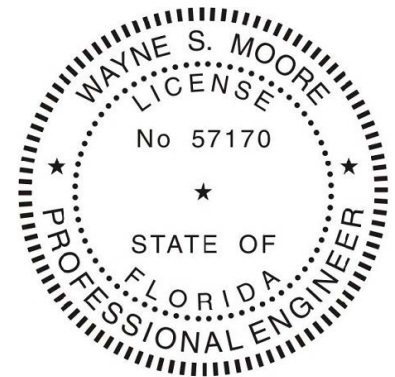


**TYPICAL SIDE ELEVATION
EXTRA SIDE PANELS**

SCALE: NTS

NOTES:

- * FULL SIDING (FOR EAVE HEIGHTS 12'-0" < TO ≤ 20'-0")
- * NO SIDING (FOR EAVE HEIGHTS 10'-0" < TO ≤ 12'-0" WITH SINGLE COLUMN CONFIGURATION)
- * 3'-0" MAX (FOR EAVE HEIGHTS ≤ 10'-0")



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SHT. 14

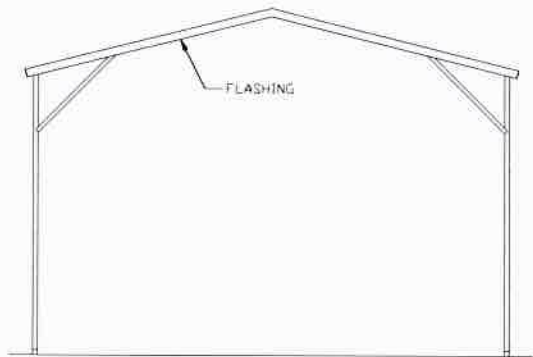
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DWG. NO: SK-1

**JOB NO: 18068S/18156S
18290S/20019S/20324S**

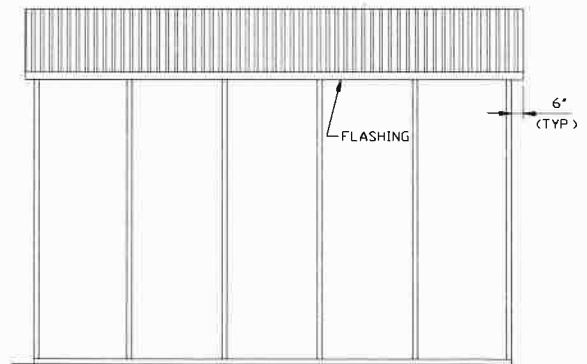
REV: 9

VERTICAL ROOF OPTION



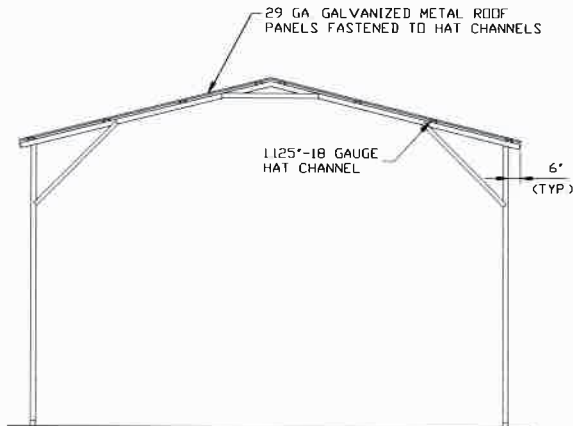
**TYPICAL END ELEVATION
VERTICAL ROOF**

SCALE: NTS



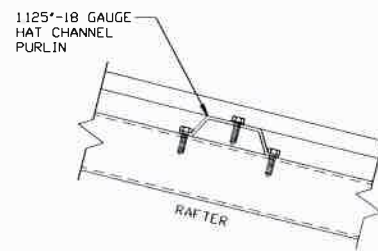
**TYPICAL SIDE ELEVATION
VERTICAL ROOF OPTION**

SCALE: NTS



**TYPICAL SECTION
VERTICAL ROOF OPTION**

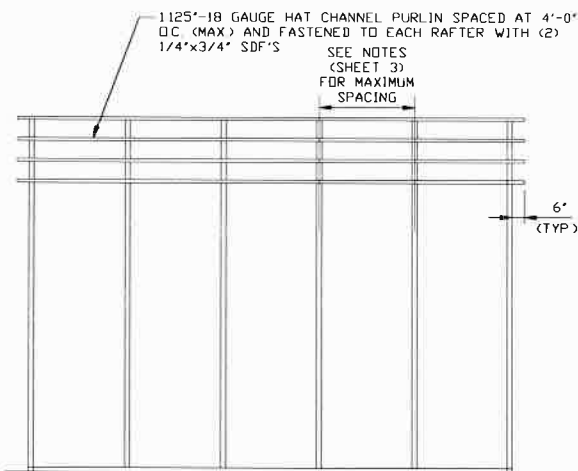
SCALE: NTS



ROOF PANEL ATTACHMENT

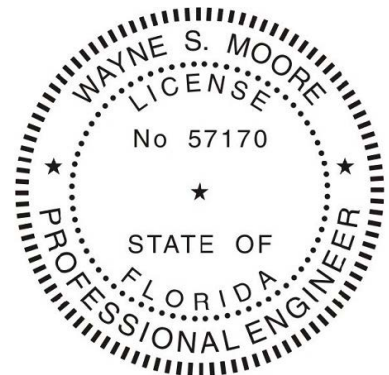
(ALTERNATE FOR VERTICAL ROOF PANELS)

SCALE: NTS



**TYPICAL SIDE FRAMING SECTION
VERTICAL ROOF OPTION**

SCALE: NTS



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CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: SBSI

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DATE: 12-11-20

SHT. 15

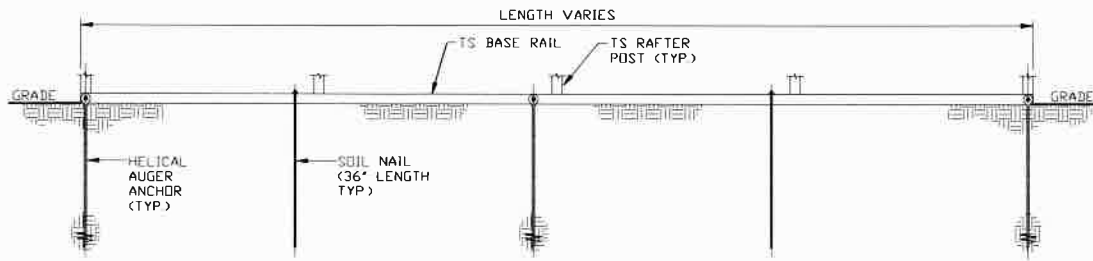
SCALE: NTS

DWG. NO: SK-1

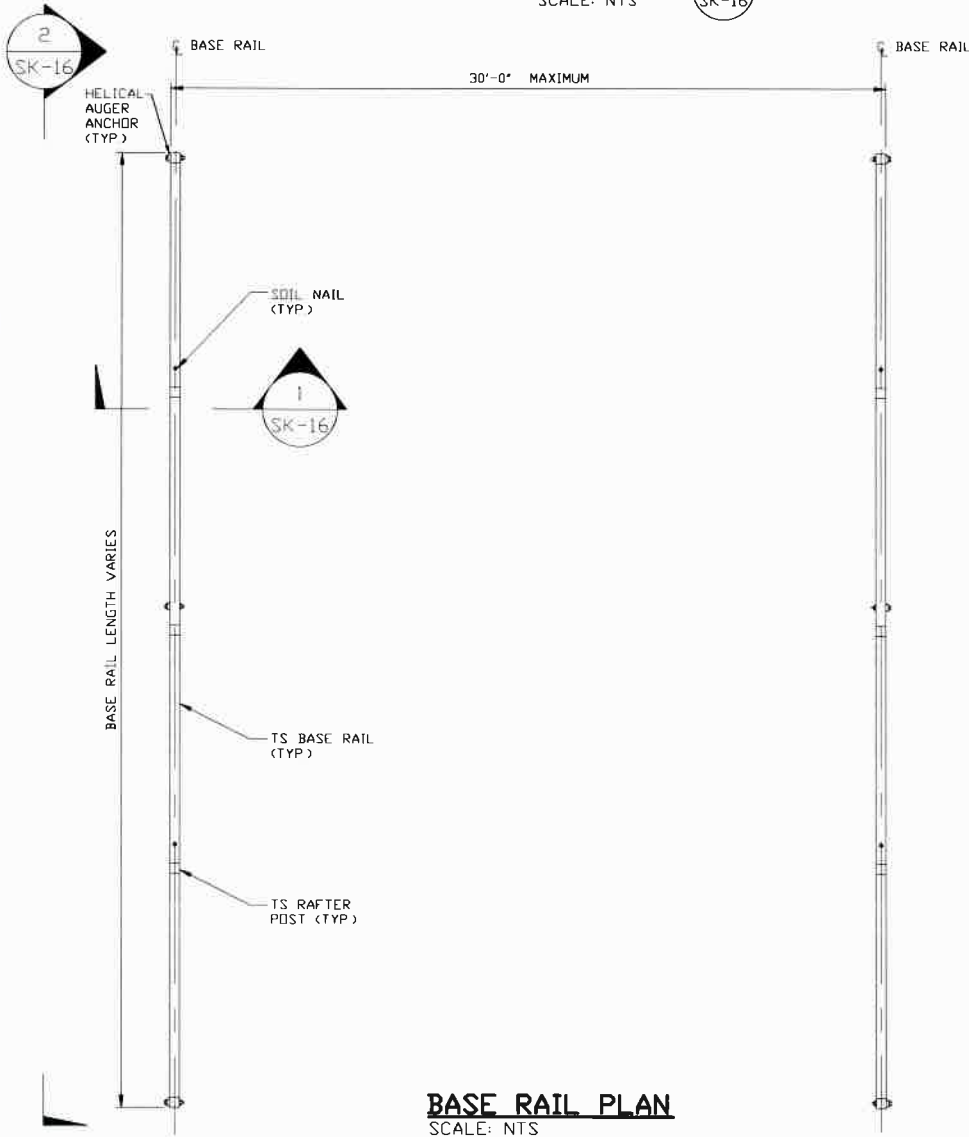
JOB NO: 18068S/18156S
18290S/20019S/20324S

REV: 9

OPTIONAL BASE RAIL ON GRADE APPLICATION

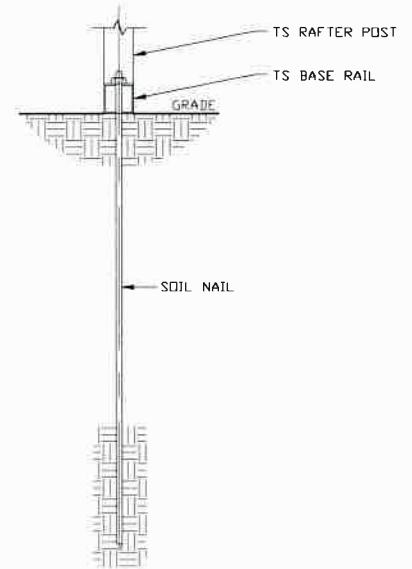


SECTION 2
SCALE: NTS
SK-16

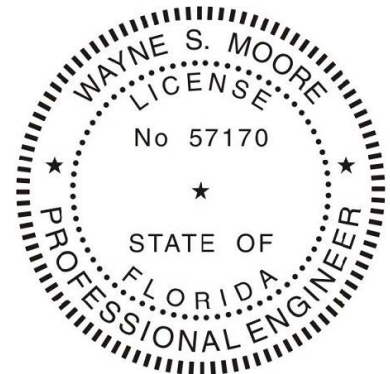


BASE RAIL PLAN
SCALE: NTS

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



SECTION 1
SCALE: NTS
SK-16



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SHT. 16

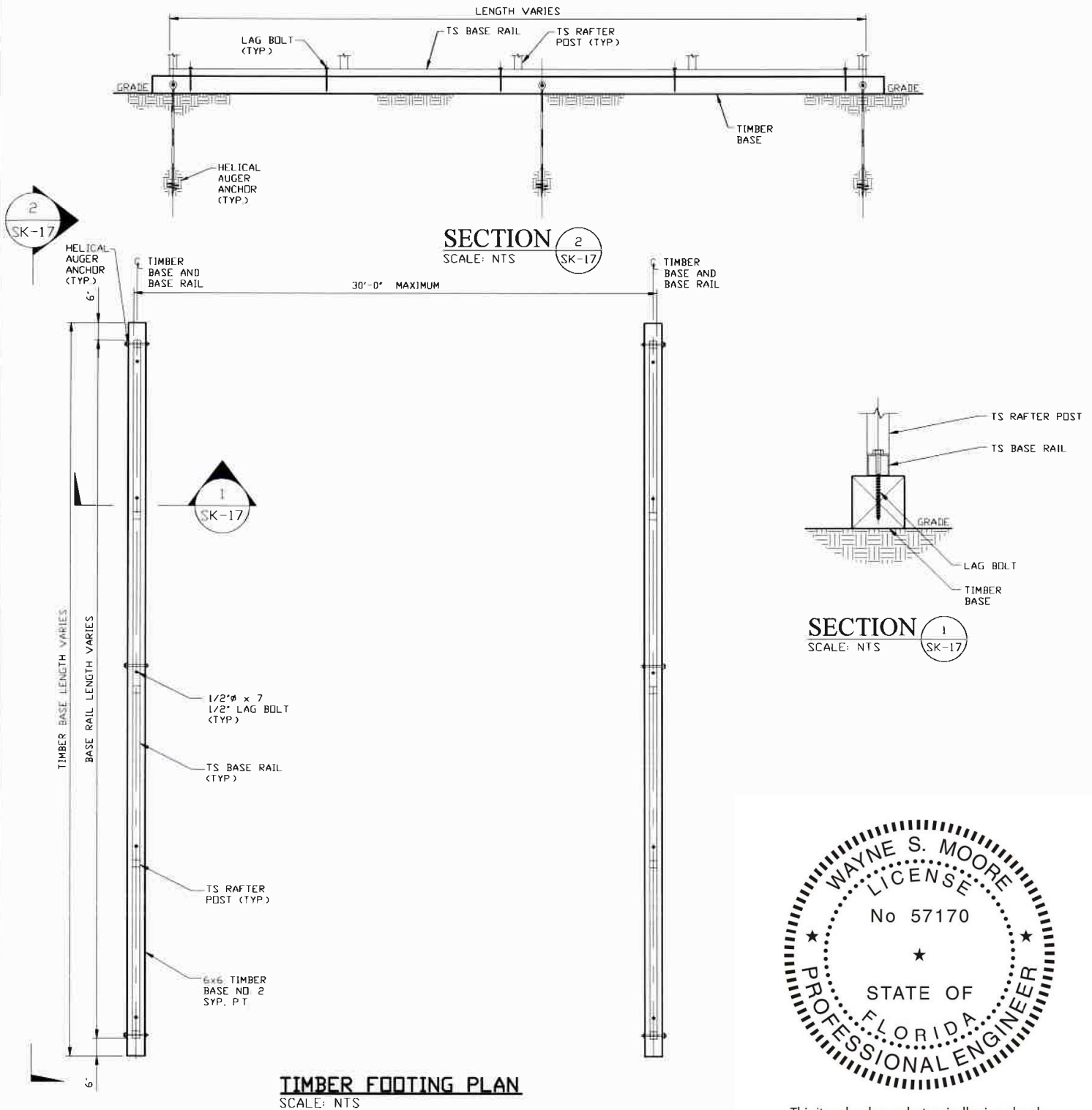
DWG. NO: SK-1

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OPTIONAL BASE RAIL ON TIMBER BEAM



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

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SCALE: NTS

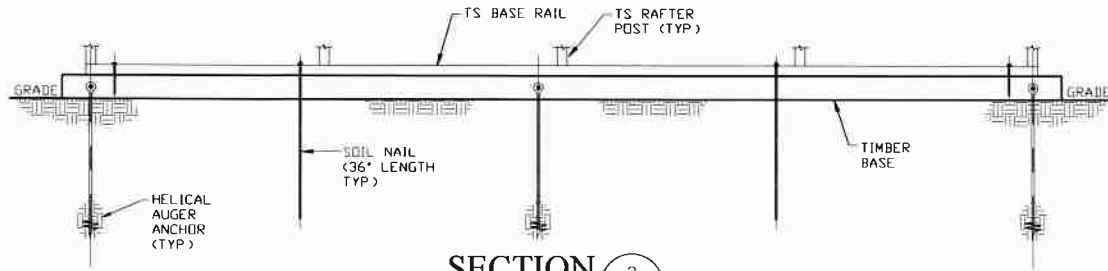
DWG. NO: SK-1

**JOB NO: 18068S/18156S
18290S/20019S/20324S**

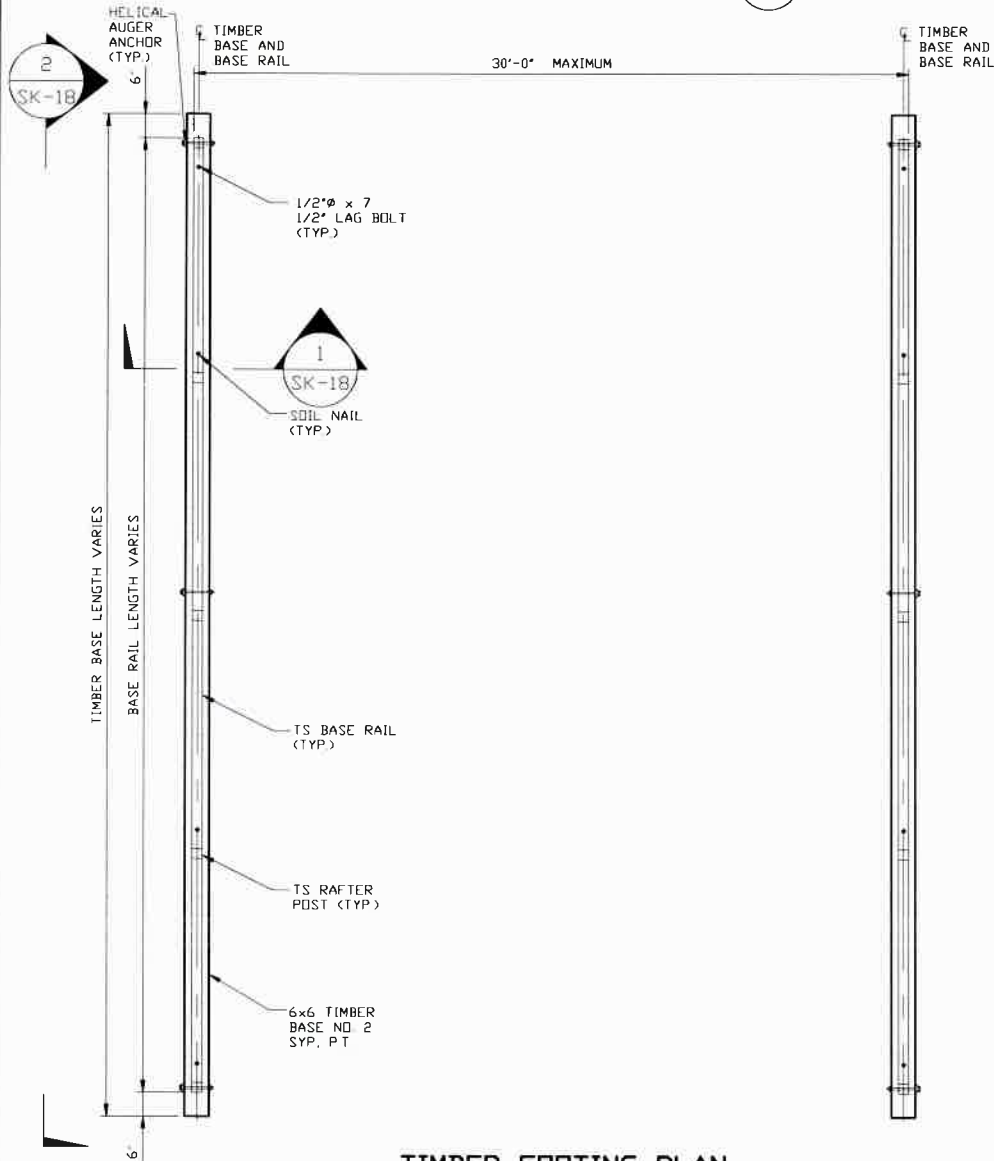
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OPTIONAL BASE RAIL ON TIMBER BEAM WITH SOIL NAIL

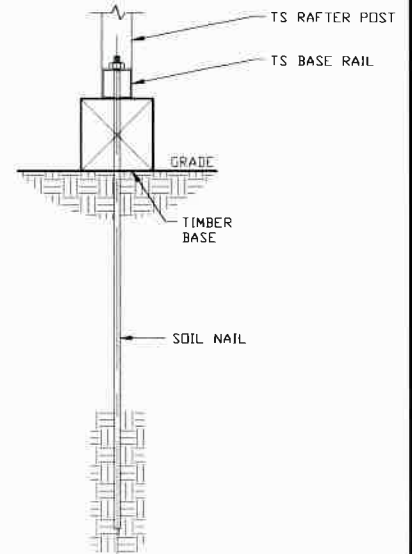


SECTION 2
SCALE: NTS

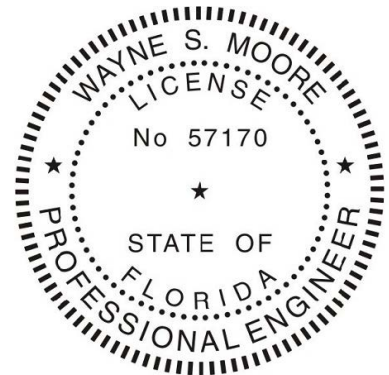


TIMBER FOOTING PLAN
SCALE: NTS

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



SECTION 1
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SHT. 18

SCALE: NTS

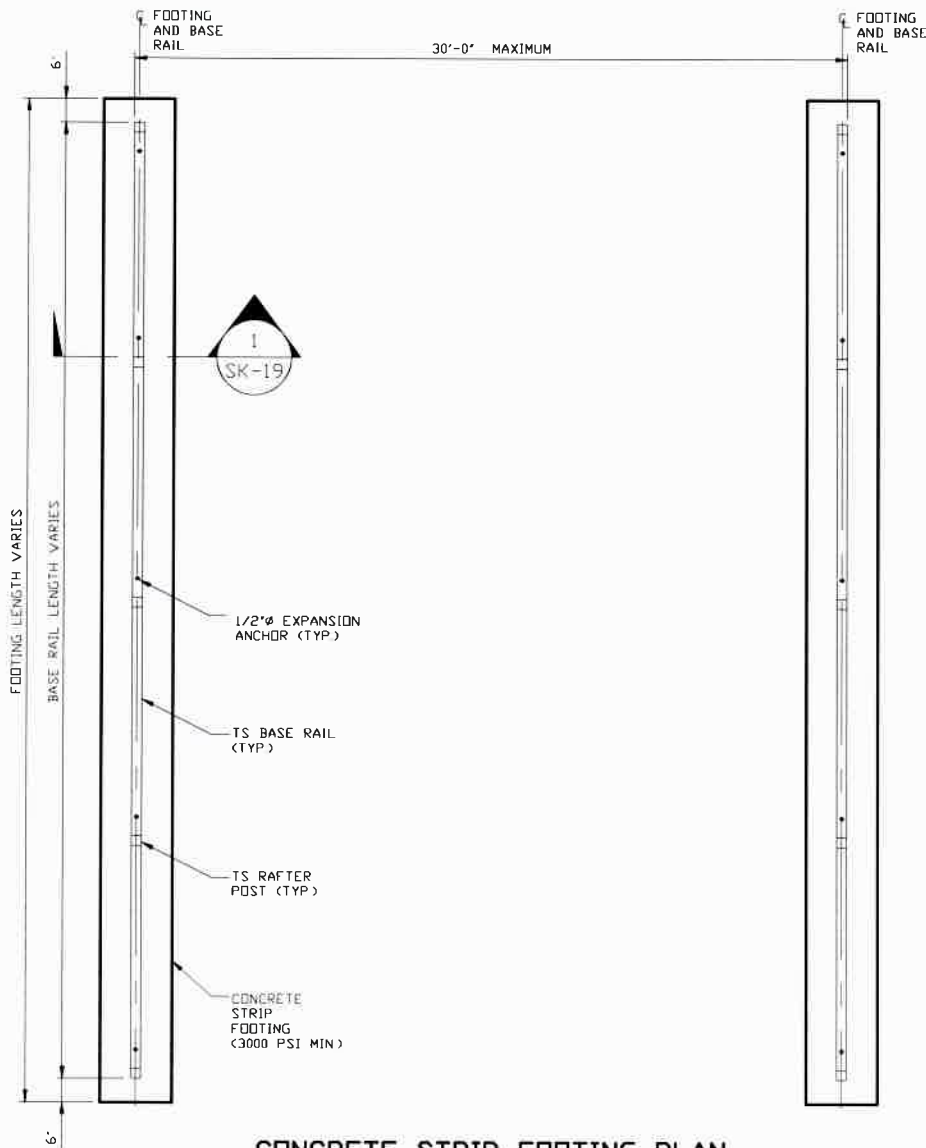
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JOB NO: 18068S/18156S
18290S/20019S/20324S

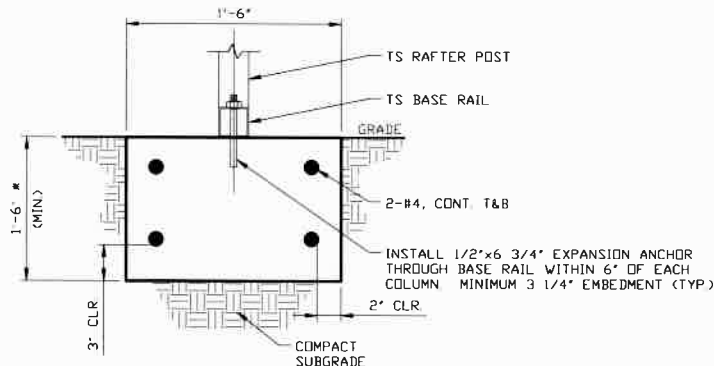
REV: 9

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OPTIONAL CONCRETE STRIP FOOTING



CONCRETE STRIP FOOTING PLAN
SCALE: NTS



SECTION
SCALE: NTS

*COORDINATE WITH LOCAL CODES/ORD.



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