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WITH SOIL NAIL

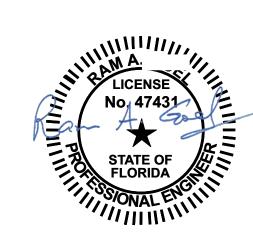
SHEET18 OPTIONAL CONCRETE STRIP FOOTING





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Revisions: No. Date Description



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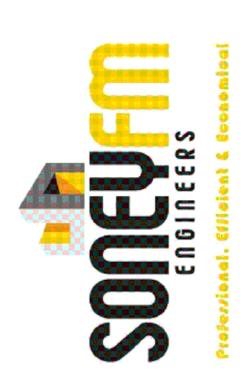
### INSTALLATION NOTES AND SPECIFICATIONS

- 1. DESIGN IS FOR MAXIMUM 30'-0" WIDE X 20'-0" EAVE HEIGHT ENCLOSED STRUCTURES.
- 2. DESIGN WAS DONE IN ACCORDANCE WITH THE 2020 FLORIDA BUILDING CODE (FBC) 7TH EDITION. 2018 NORTH CAROLINA BUILDING CODE. 2006 INTERNATIONAL BUILDING CODE (IBC), 2009 IBC, 2012 IBC AND 2015 IBC.
- 3. DESIGN LOADS ARE AS FOLLOWS.
  - A) DEAD LOAD = 1.5 PSF
  - $\stackrel{\circ}{B}$  LIVE LOAD = 12 PSF
  - C) GROUND SNOW LOAD = 30 PSF (( 26'-0"), 35 PSF (26'-0" < W < 30'-0") (UNBALANCED SNOW LOADS DUE TO DRIFTING HAVE NOT BEEN EVALUATED.)
- 4. 3-SECOND GUST ULTIMATE WIND SPEED (Vut) 105 TO 145 MPH (NOMINAL WIND SPEED 82 TO 112 MPH): MAXIMUM RAFTER/COLUMN AND END COLUMN SPACING = 5.0 FEET (UNLESS NOTES OTHERWISE).
- 5. END WALL COLUMNS (POST) ARE EQUIVALENT TO SAVE WALL POSTS UNLESS NOTED OTHERWISE.
- 6. RISK CATEGORY I.
- 7. WIND EXPOSURE CATEGORY B.
- 8. SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 21/2" X 21/2" 14 GAUGE TUBE STEEL (TS) FRAMING MEMBERS (UNLESS NOTED OTHERWISE).
- 9. AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR HAT CHANNELS, AND COLUMNS (INTERIOR OR END) = 8 INCHES.
- 10. FASTENERS CONSIST OF 1/4" X 3/4" SELF- DRILLING FASTENER (SDF). USE CONTROL SEAL WASHER WITH EXTERIOR FASTENERS. SPECIFICATIONS APPLICABLE ONLY FOR MEAN ROOF HEIGHT OF 20 FEET OR LESS, AND ROOF SLOPES OF 14' (3:12 PITCH) OR LESS SPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY VARY.
- 11. GROUND ANCHORS SHALL BE INSTALLED BE INSTALLED THROUGH BASE RAIL WITHIN 6" OF EACH COLUMN.
- 12. GROUND ANCHORS CONSIST OF #4 REBAR W/ WELDED NUT X 36" LONG IN SUITABLE SOIL CONDITIONS. OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USED IN UNSUITABLE SOILS AS NOTED.
- 13. WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE:

```
SOIL SITE CLASS = D
RISK CATEGORY I/II/III
R = 3.25
Sps = 2.0369
            V= CsW
```

Sp1 = 1.258

14. WINDOW AND DOOR DESIGH PRESSURES ARE APPLICABLE TO THE FLORIDA ONLY.



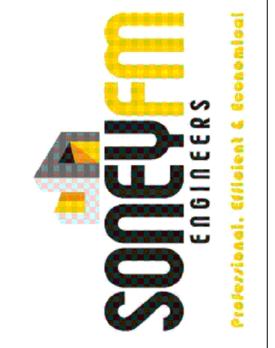
Job # S2080 Drawn By: K.D. Checked By: S.G.

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## BOX EAVE FRAME RAFTER STRUCTURE



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ROLL-UP DOOR PERSONNEL DOOR (AS APPLICABLE) DESIGN PRESSURE (AS APPLICABLE)
DESIGN PRESSURE
(208 PSF, -226 (17.5 PSF,-19.9 PSF) 30'-0" MAXIMUM RAFTER SPAN (W)

> TYPICAL END ELEVATION SCALE: N.T.S.

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WINDOW (AS APPLICABLE)
DESIGN PRESSURE

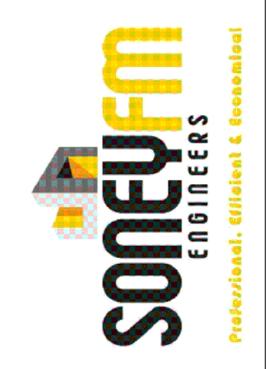
(218 PSF,-236 PSF)

SCALE: N.T.S.

TYPICAL SIDE ELEVATION

LENGTH VARIES DEPENDING ON NUMBER AND SPACING OF RAFTERS

# BOX EAVE FRAME RAFTER STRUCTURE



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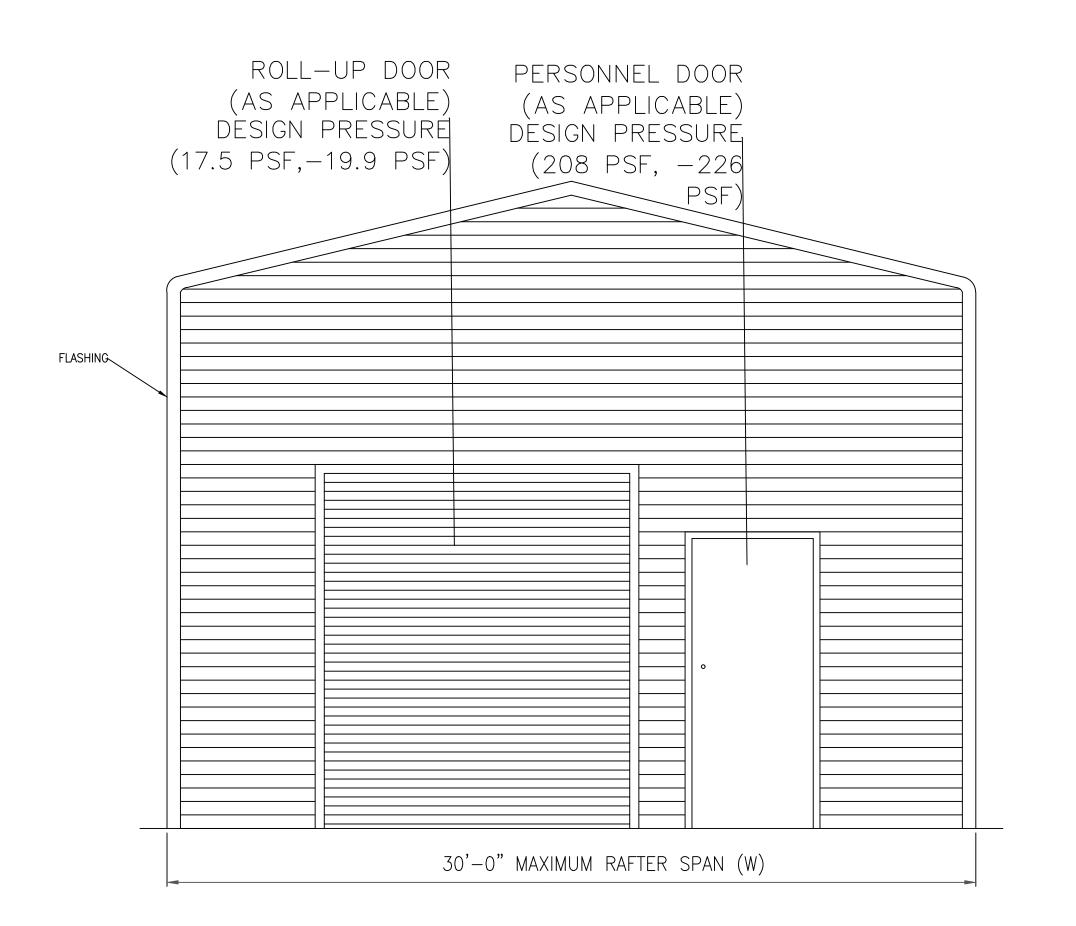
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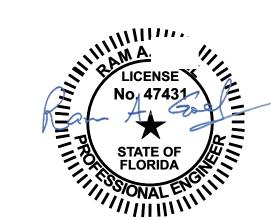
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WINDOW (AS APPLICABLE)
DESIGN PRESSURE
(218 PSF,-236 PSF) LENGTH VARIES DEPENDING ON NUMBER AND SPACING OF RAFTERS

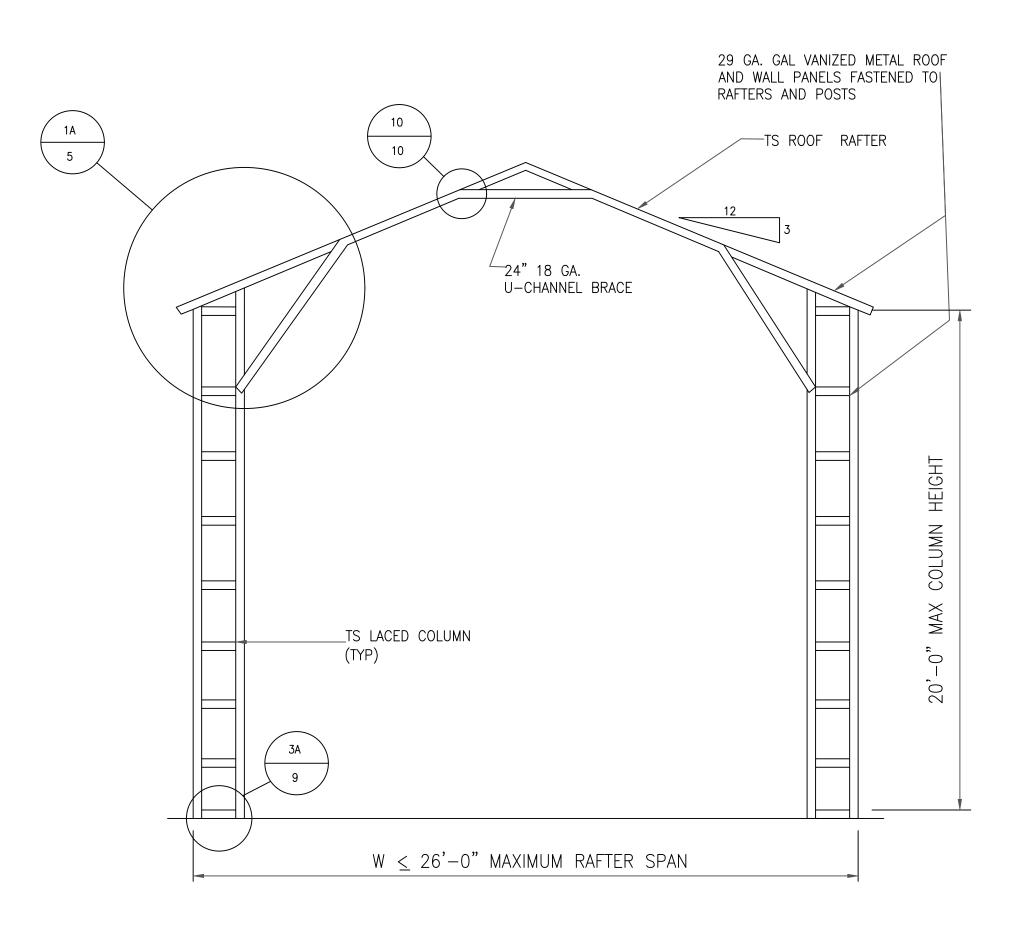
> TYPICAL SIDE ELEVATION SCALE: N.T.S.



TYPICAL END ELEVATION SCALE: N.T.S.



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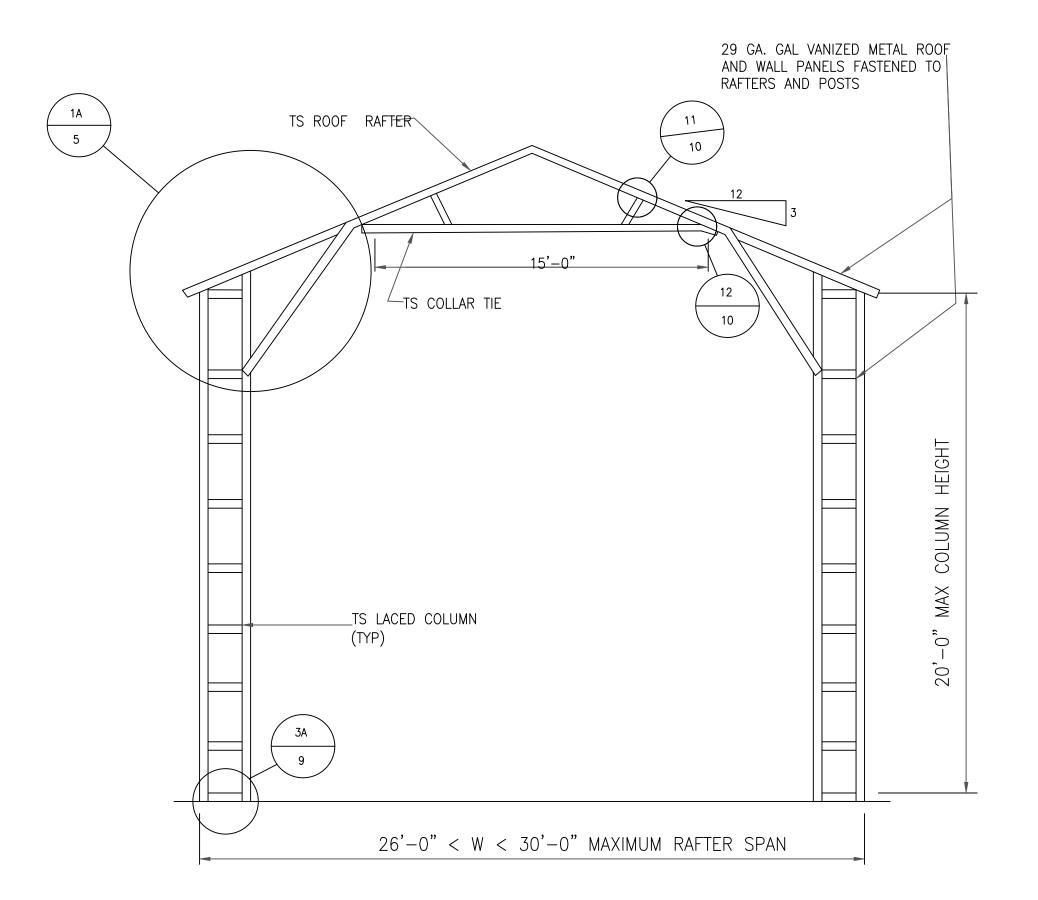


TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: N.T.S.

LENGTH VARIES DEPENDING ON NUMBER AND SPACING OF RAFTERS

SEE NOTES (SHEET 3) FOR MAXIMUM SPACING

TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: N.T.S.



TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: N.T.S.



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SONEY FM LLC
LAKE PROFESSIONAL CENTER
CROSS CREEK BLVD., SUITE P

Job # S2080 Drawn By: K.D.

Checked By: S.G.

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Revisions: No. Date Description

AME RAFTER STRUCTURE
MANUFACTURING, LLC
72060

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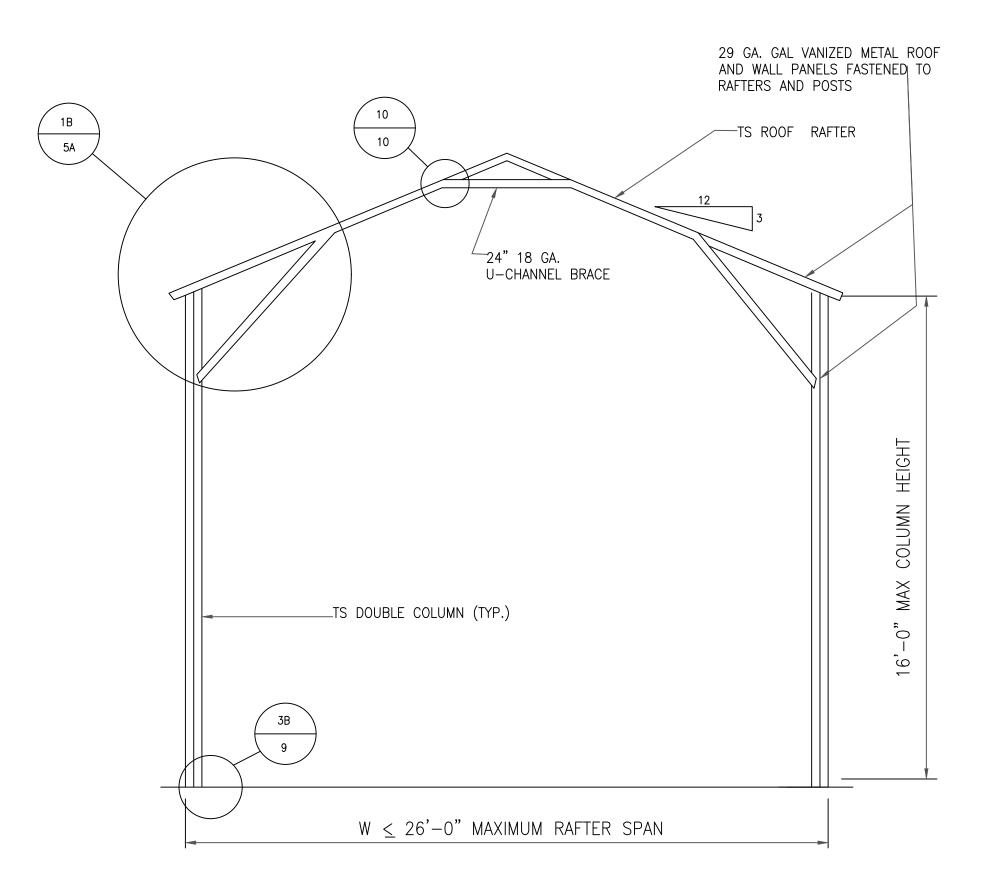
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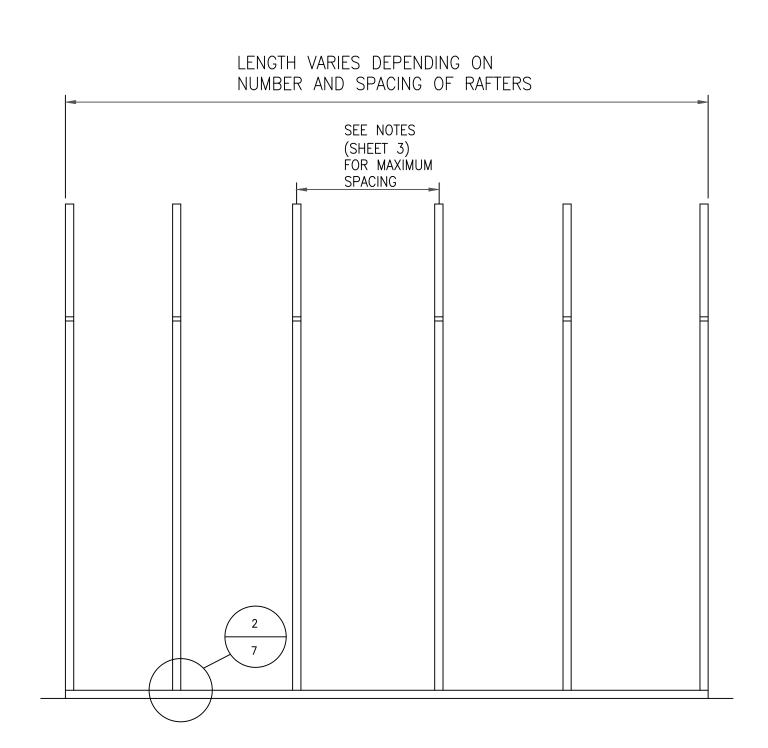
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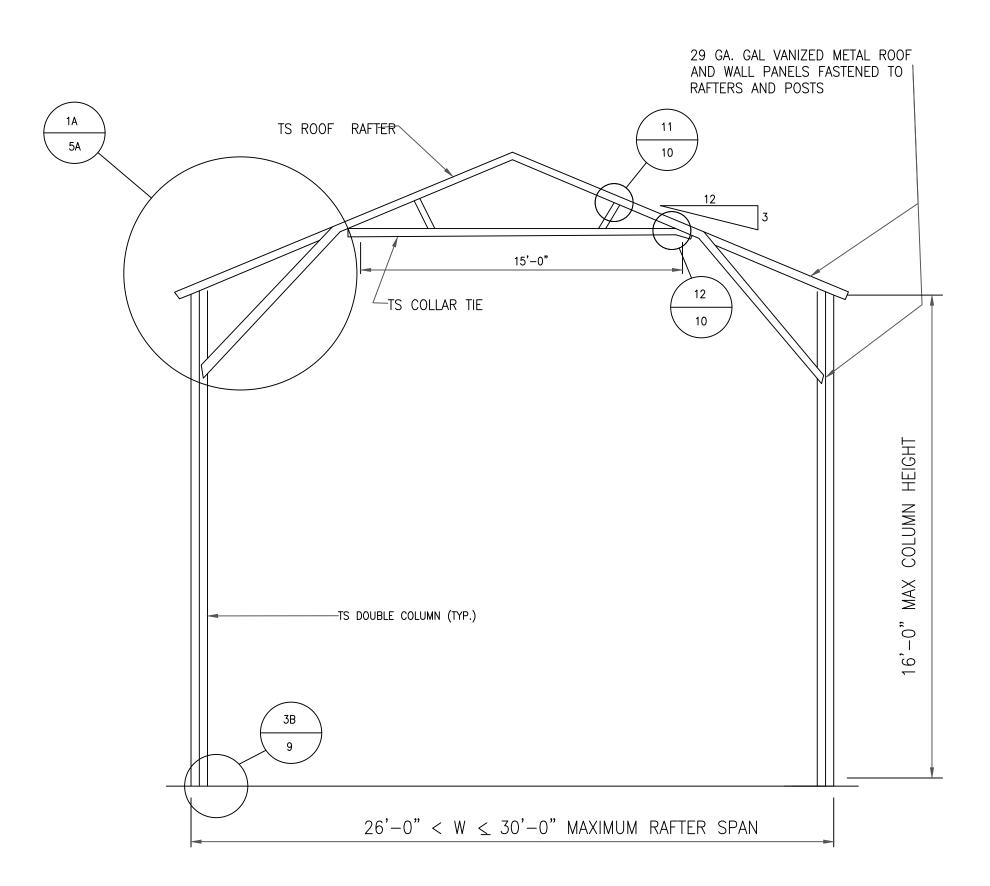
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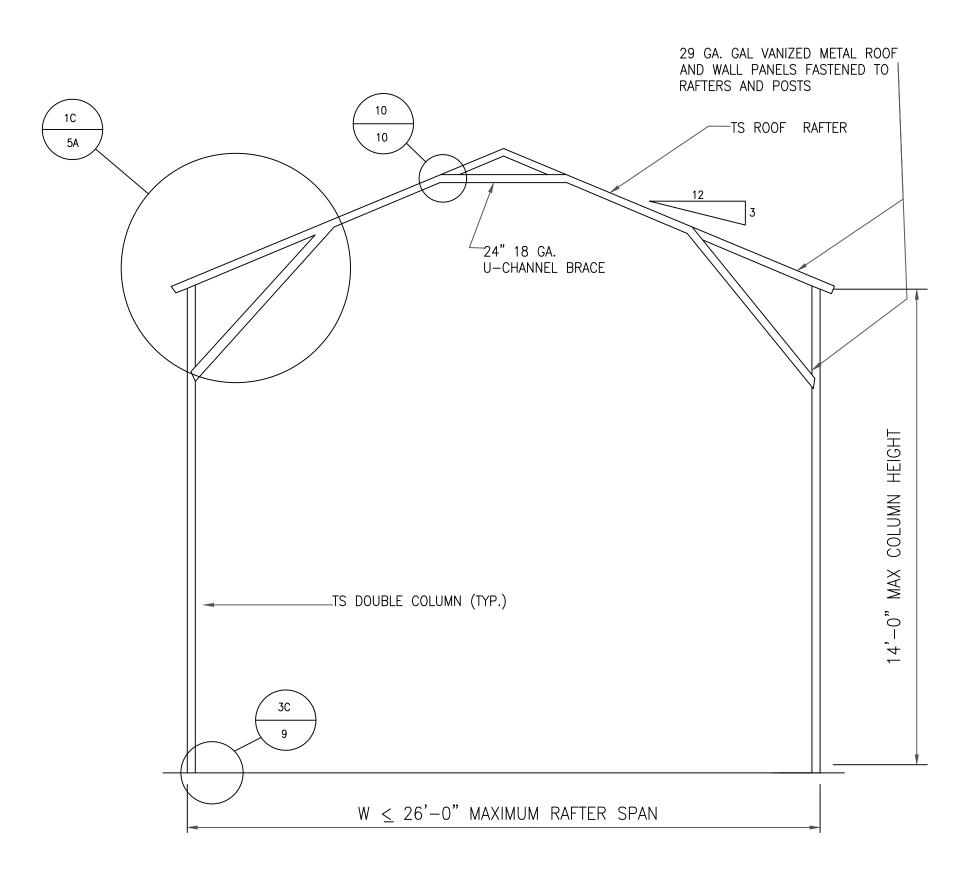


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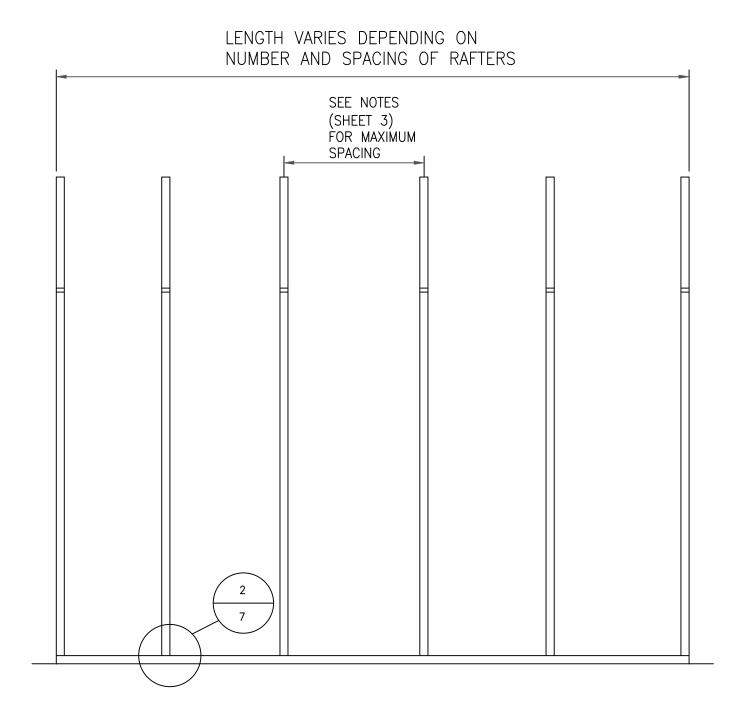
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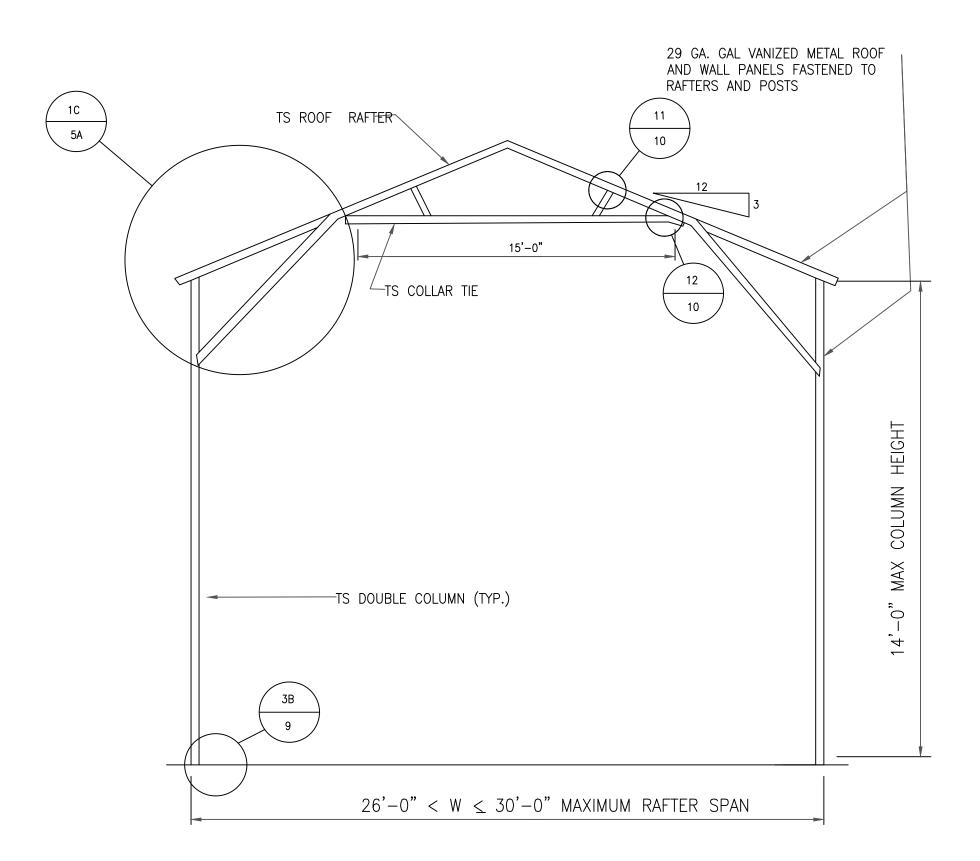
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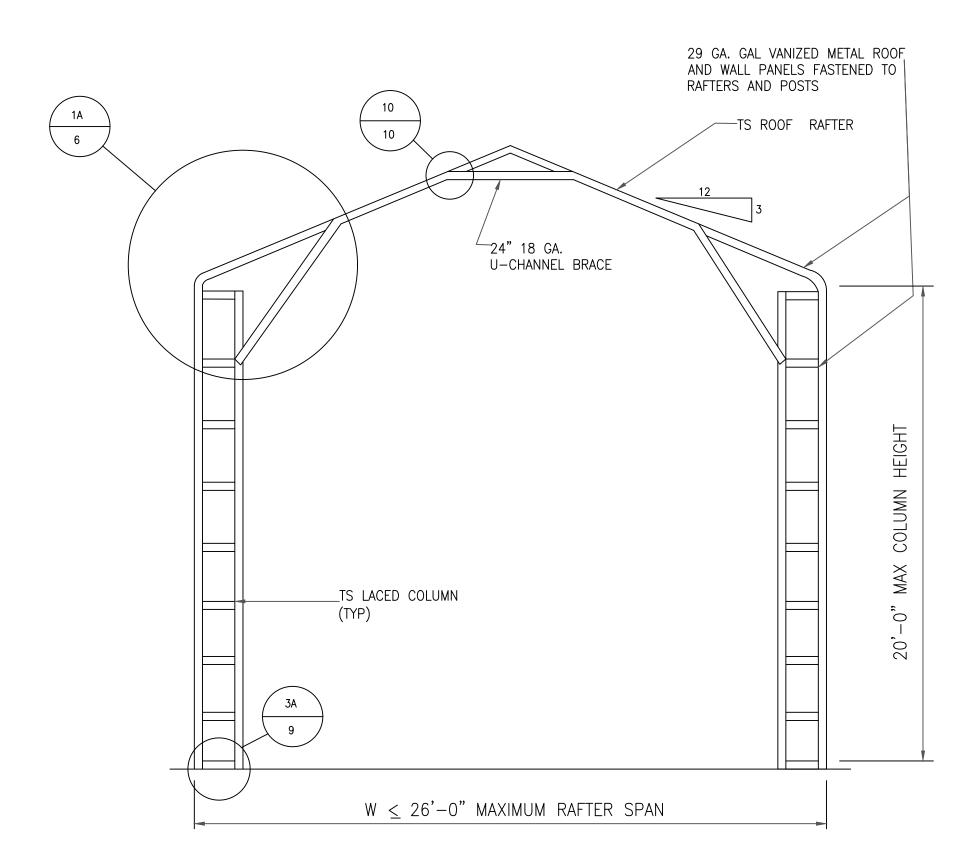
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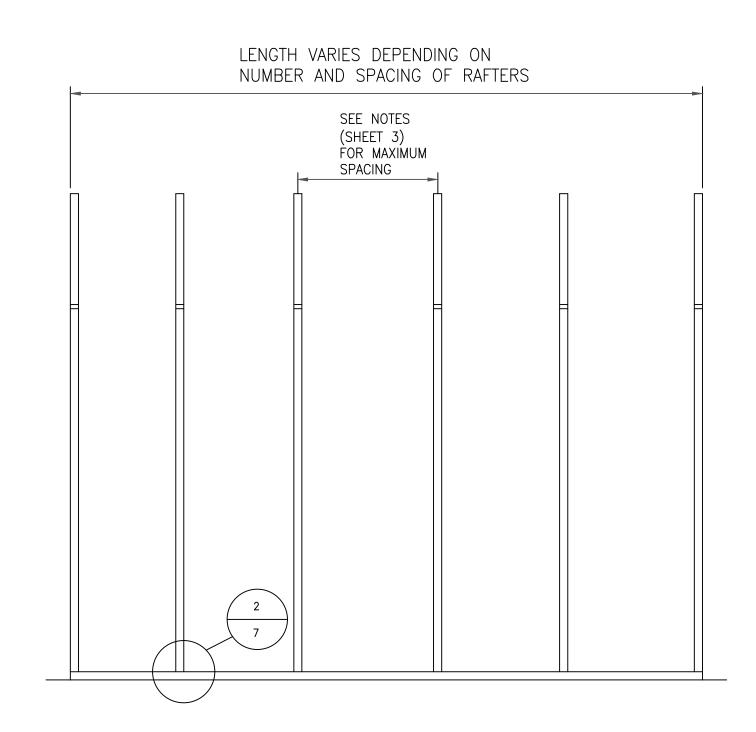
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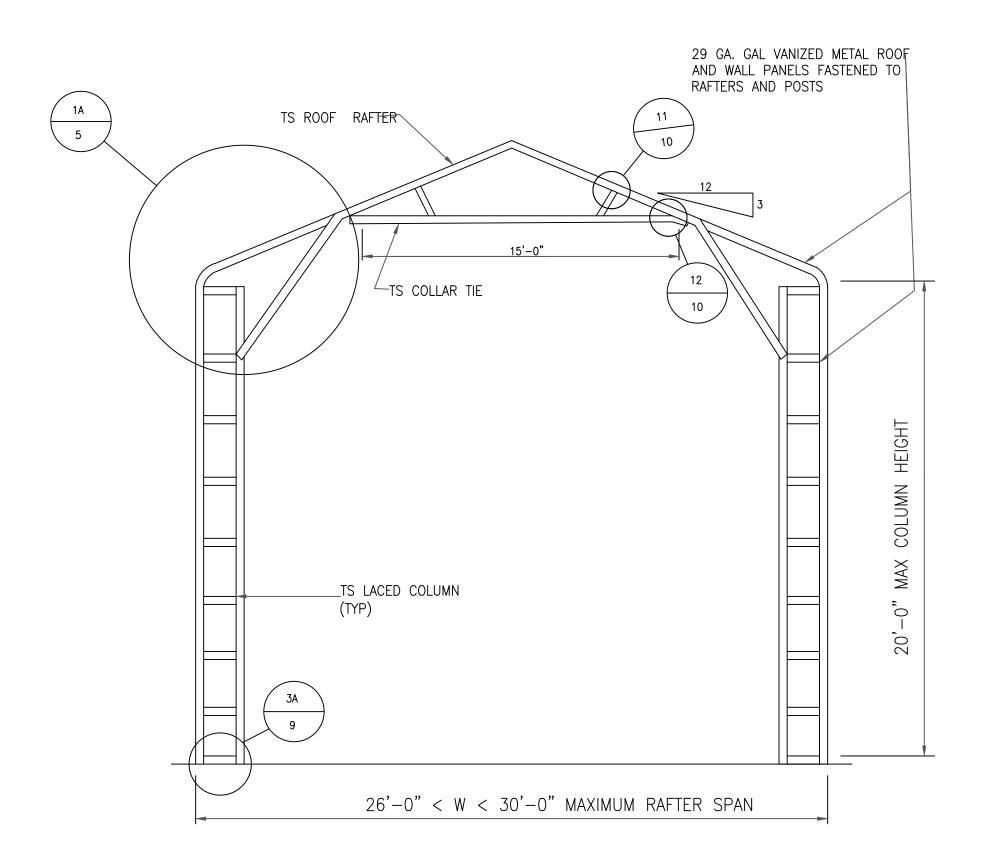
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SOI CORY LAKE PI 10329 CROSS TAM

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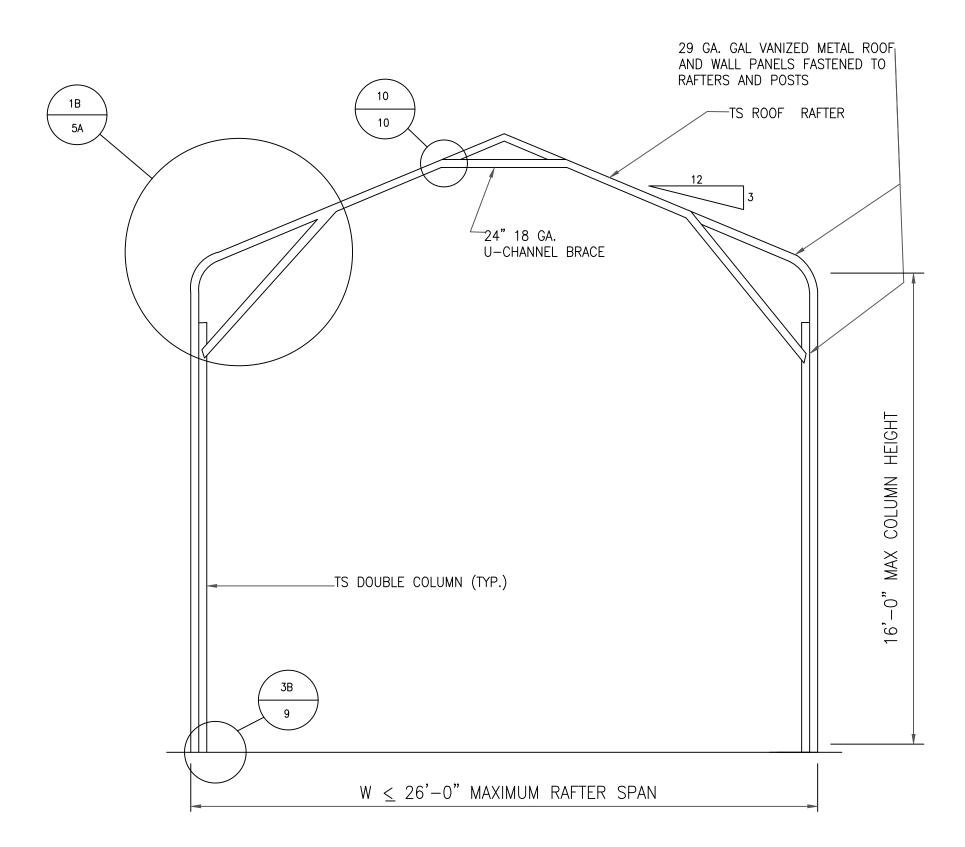
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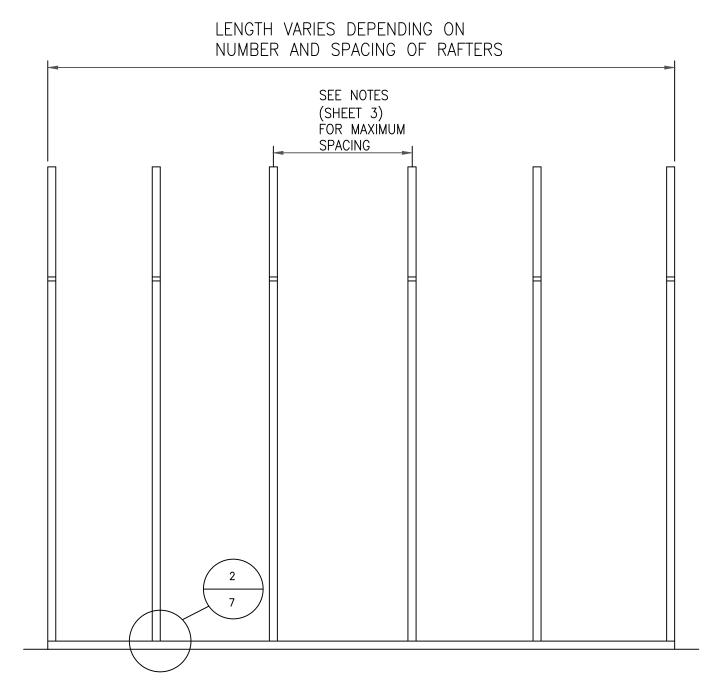
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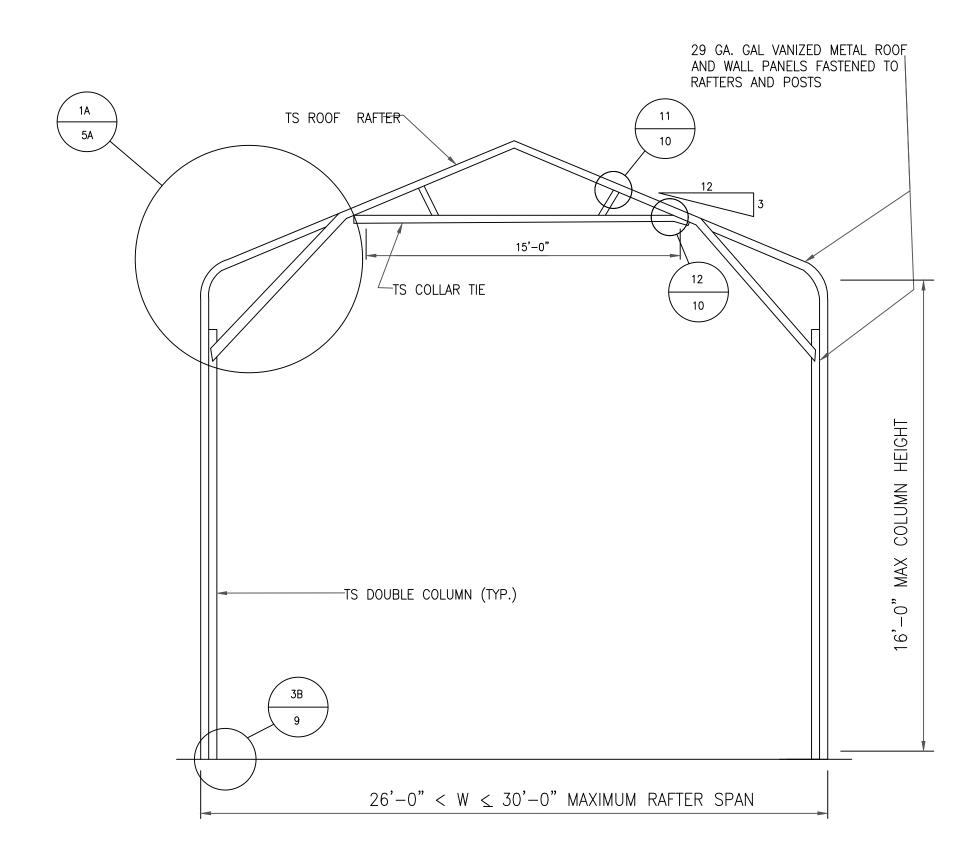
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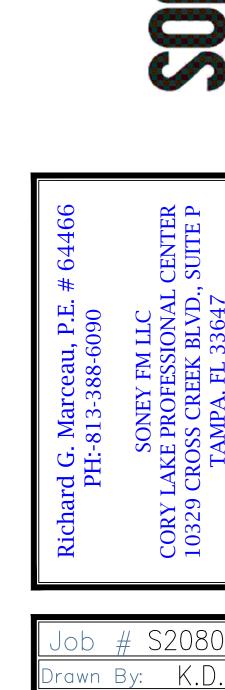
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TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: N.T.S.



TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: N.T.S.



S.G.
08-18-21
Description

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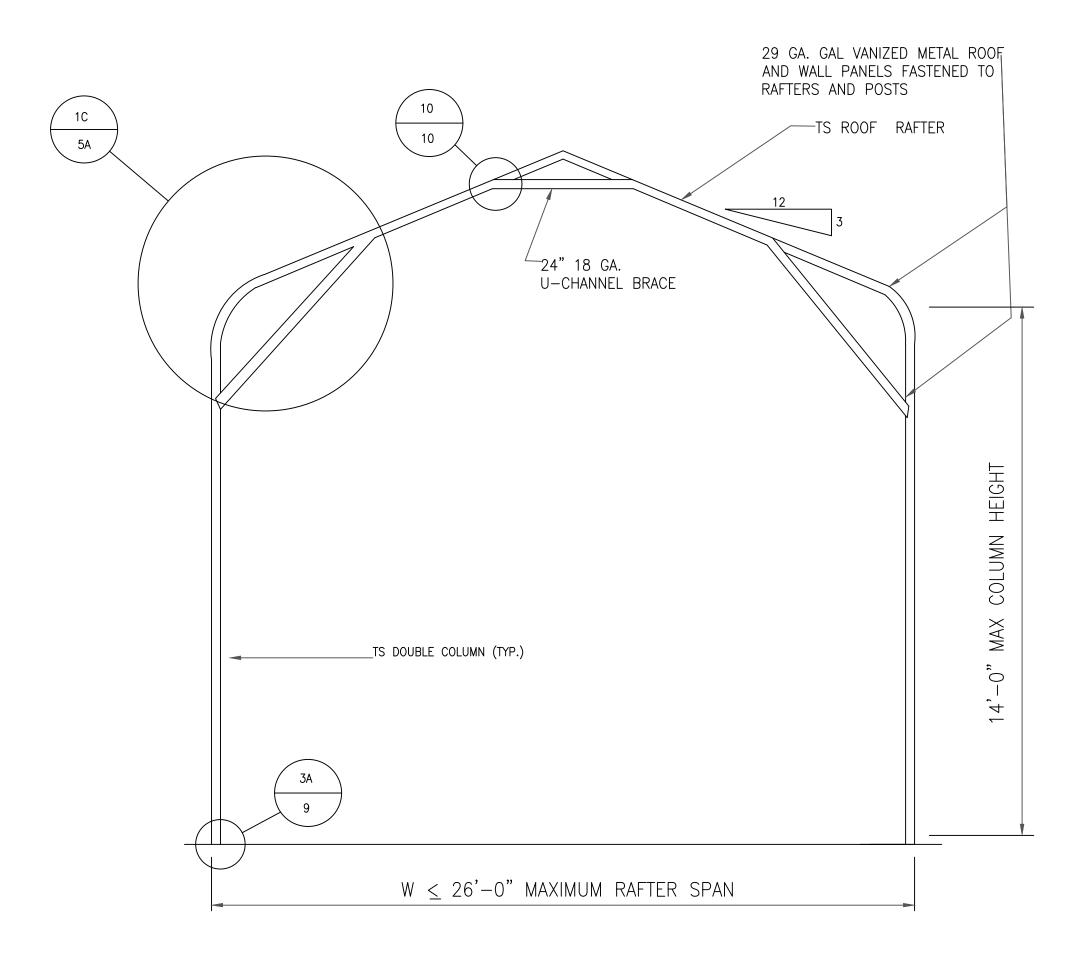
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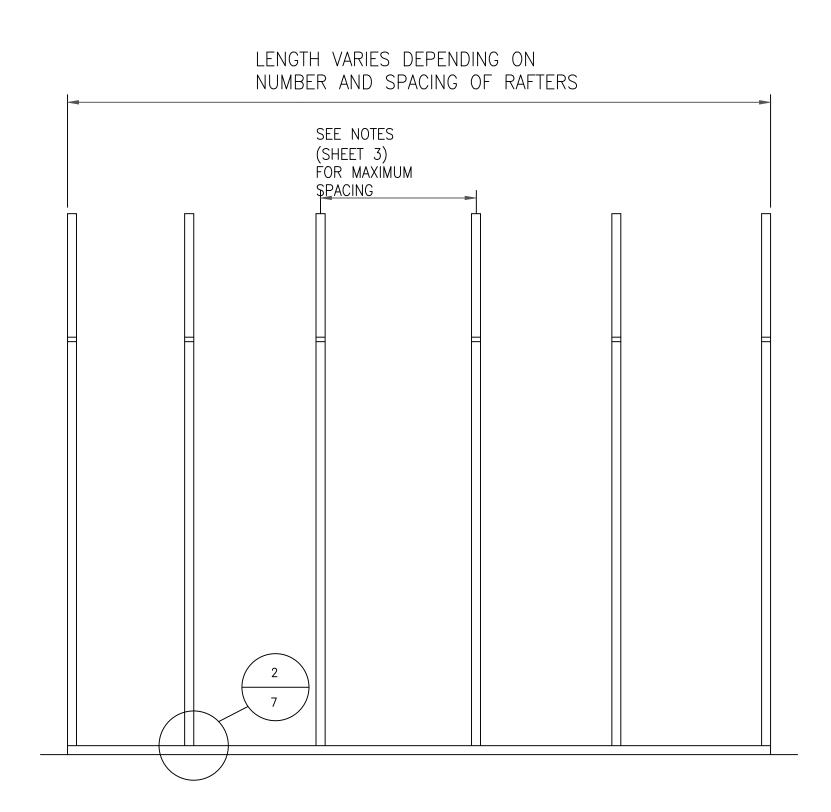
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TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: N.T.S.



TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: N.T.S.

29 CA. CAL VANZED MEITAL ROOF
AND WALL PANZED MEITAL ROOF
RAFTER

11
10
15-0\*

TS ROOF RAFTER

15-0\*

TS COLLAR TIE

10

WM01000 XMM

10

TS DOUBLE COLUMN (TYP.)

26'-0" < W < 30'-0" MAXIMUM RAFTER SPAN

TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: N.T.S.



SONEY FM LLC
ORY LAKE PROFESSIONAL CENTE
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www.sonevfmllc.com

Job # S2080

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Checked By: S.G.

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ME RAFTER STRUCTURE IANUFACTURING, LLC 30060

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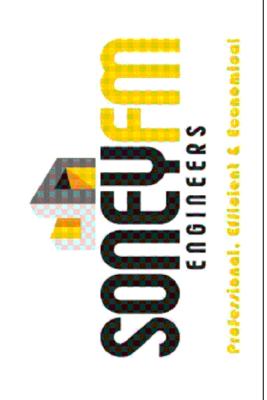
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Job # S2080

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RAFTER STRUCTURE

EAVE FRAME RAFTER

OX EAVE

NOTE:

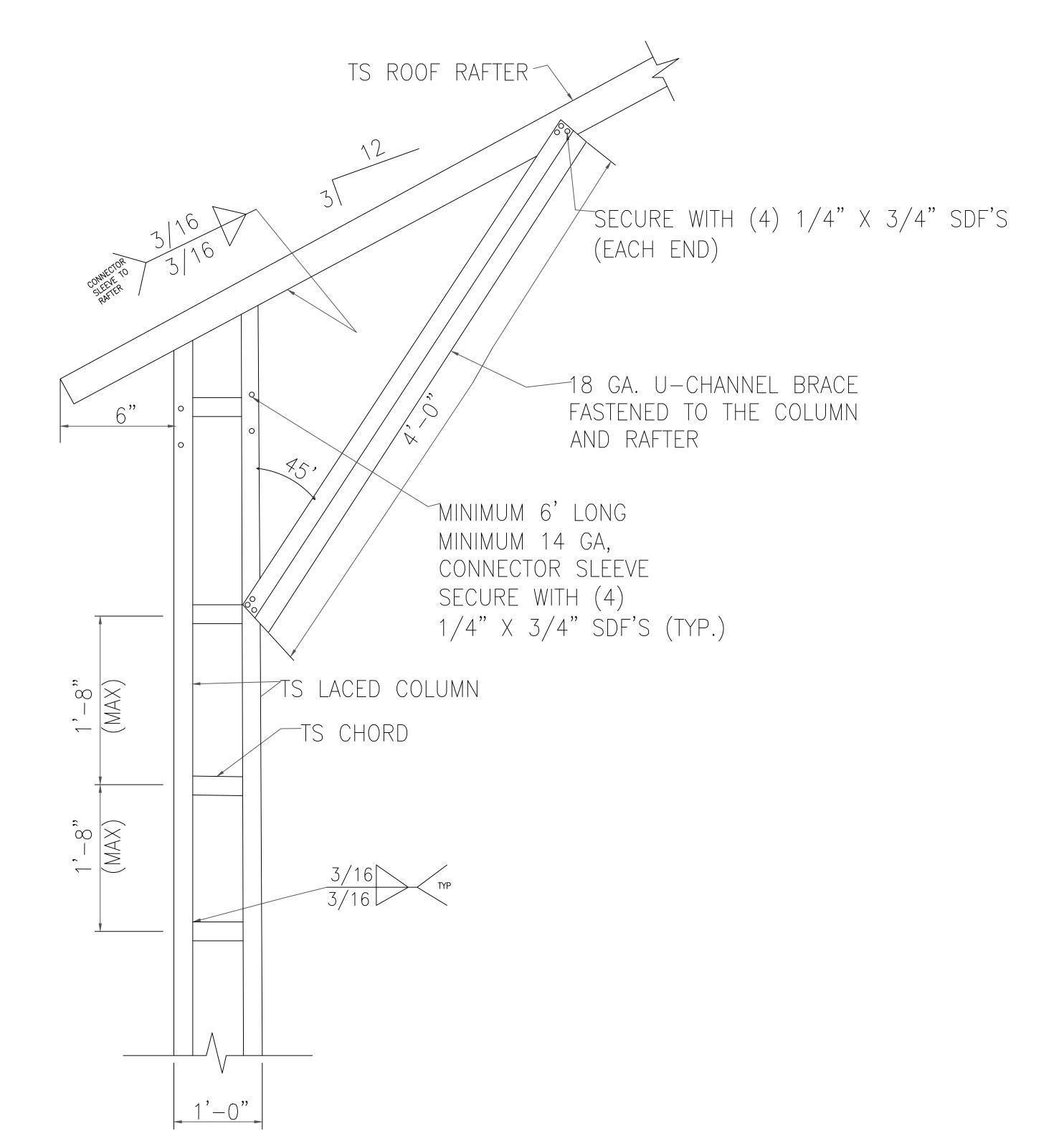
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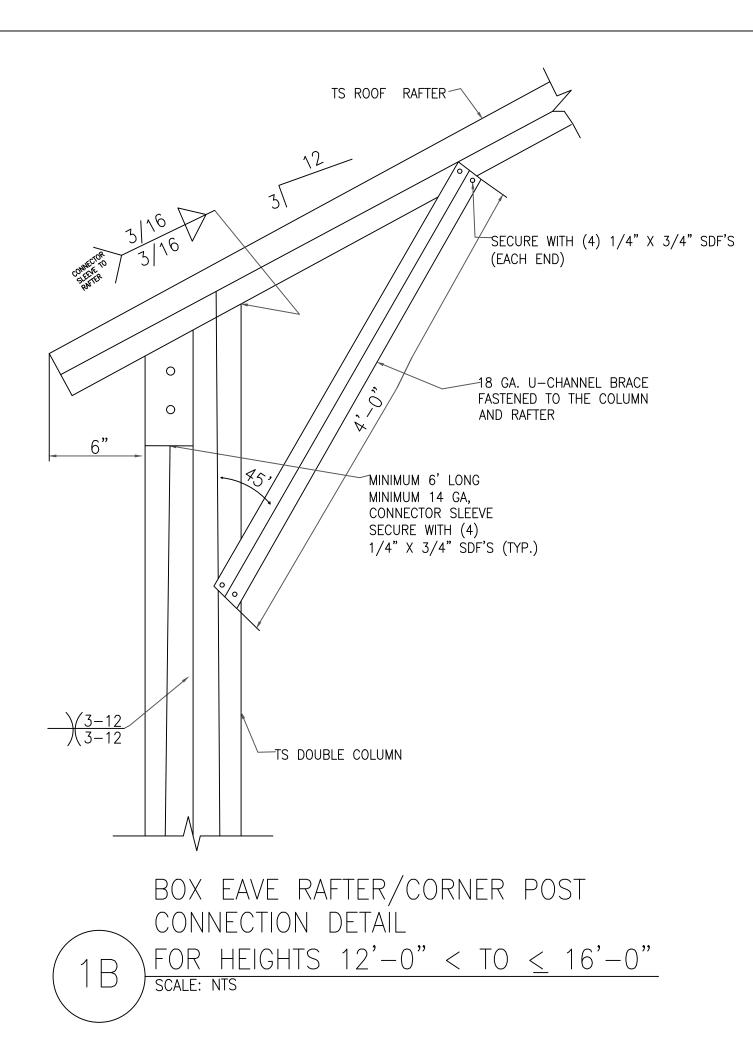
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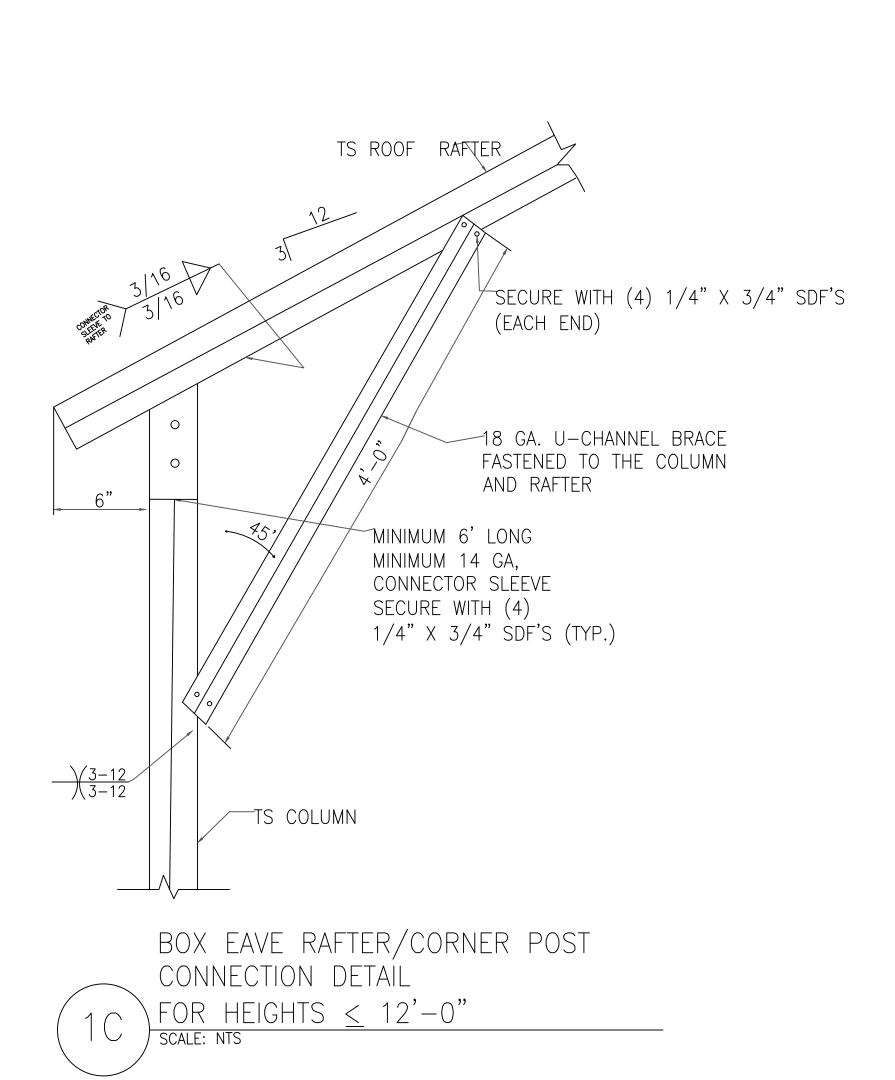
18 GA. U—CHANNEL BRACE FASTENED
TO THE COLUMN AND ROOF RAFTER, WITH
(4) 1/4"X3/4" SDF'S AT EACH END (B
PER BRACE)

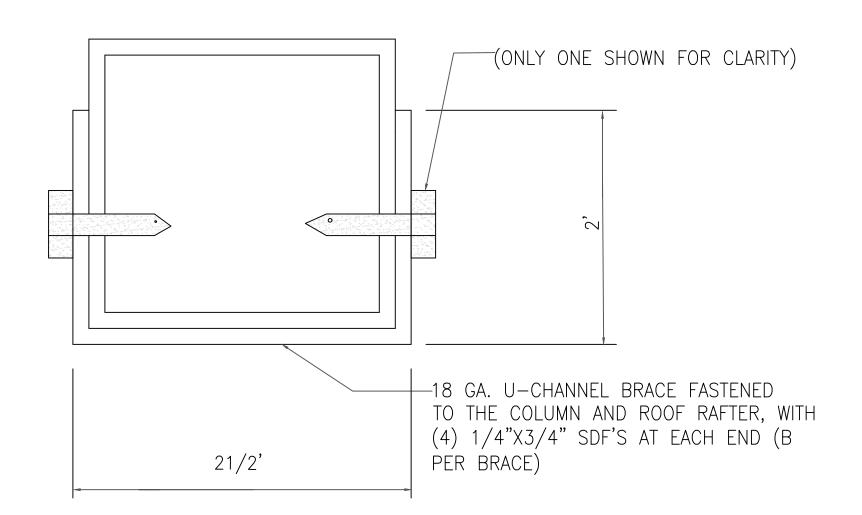
BRACE SECTION SCALE: N.T.S.

BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL

FOR HEIGHTS 16'-0" < TO < 20'-0" scale: NTS







BRACE SECTION scale: n.t.s.



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SONEY FM
CORY LAKE PROFESSI
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TAMPA, FL 3

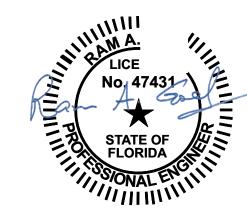
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RAME RAFTER STRUCTURE
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TRACE
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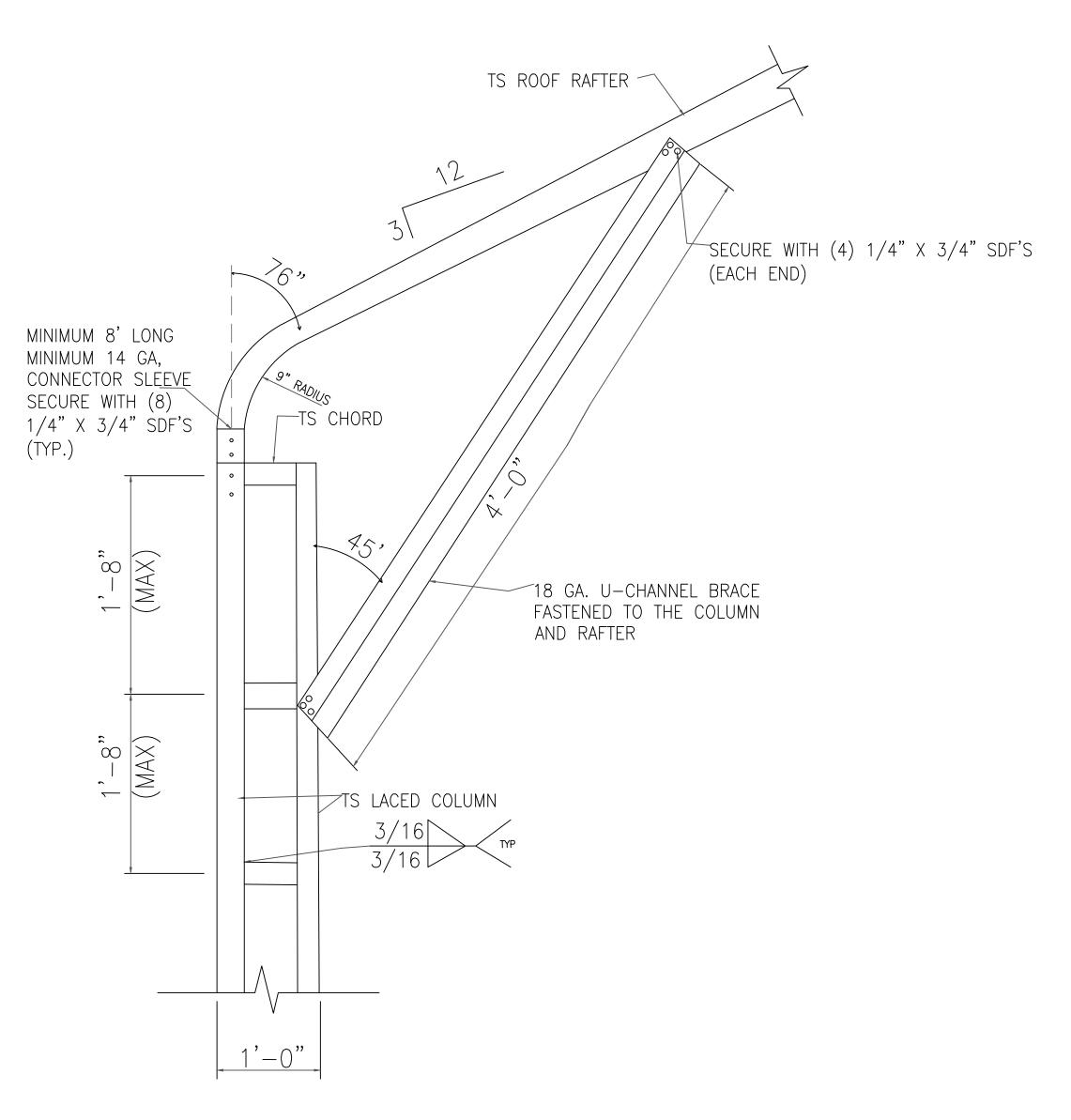
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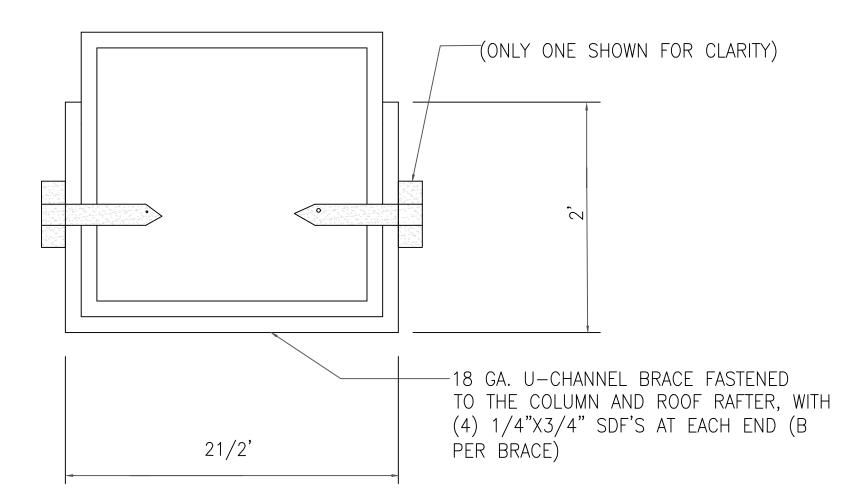
Dr. Ram A. Goel PE # 47431

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BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL

FOR HEIGHTS 16'-0" < TO < 20'-0"



BRACE SECTION



Checked By: S.G.

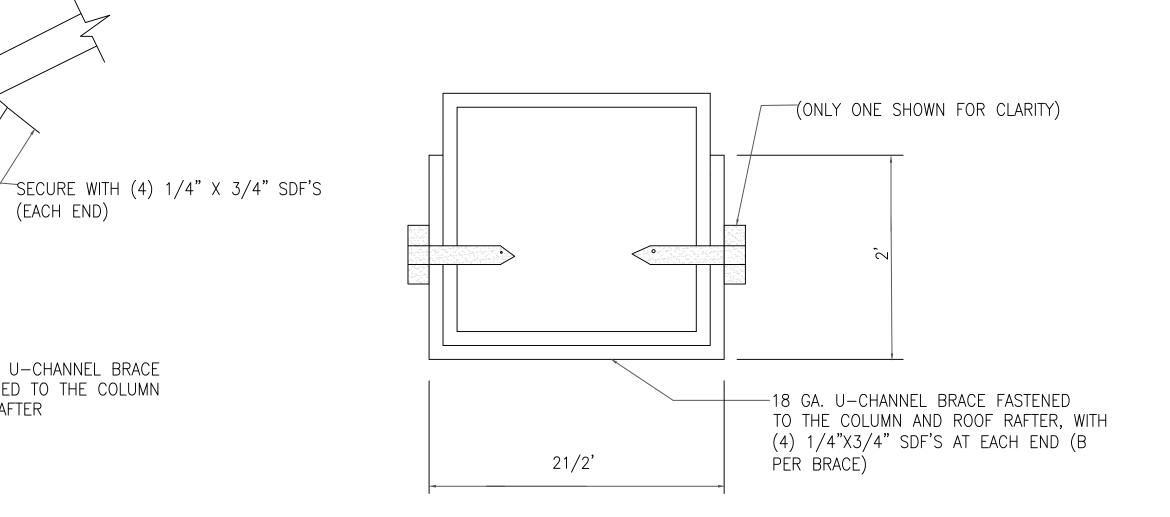
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BRACE SECTION SCALE: N.T.S.

Job # S2080 Drawn By: K.D. Checked By: S.G.

Issue Date	:08-18-21			
Revisions:				
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1C FOR HEIGHTS < 12'-0"

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

SCALE: NTS TS ROOF RAFTER  $\overline{\phantom{a}}$ SECURE WITH (4) 1/4" X 3/4" SDF'S (EACH END) MINIMUM 8' LONG \_18 GA. U-CHANNEL BRACE MINIMUM 14 GA, \_\_\_ FASTENED TO THE COLUMN CONNECTOR SLEEVE SECURE WITH (8) AND RAFTER 1/4" X 3/4" SDF'S (TYP.) TS COLUMN

TS DOUBLE COLUMN

TS ROOF RAFTER

18 GA. U-CHANNEL BRACE FASTENED TO THE COLUMN

AND RAFTER

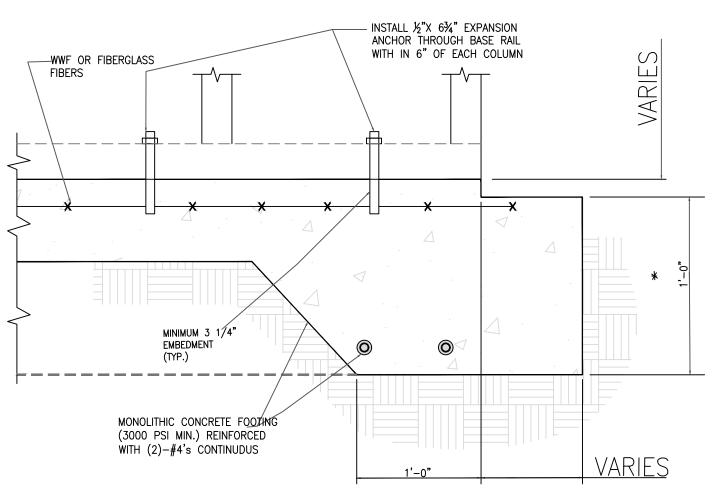
MINIMUM 8' LONG

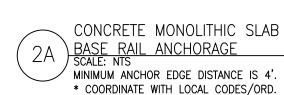
MINIMUM 14 GA, CONNECTOR SLEEVE SECURE WITH (8) 1/4" X 3/4" SDF'S (TYP.)

 $\frac{3-12}{3-12}$ 

BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL

### BASE RAIL ANCHORAGE OPTIONS





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:

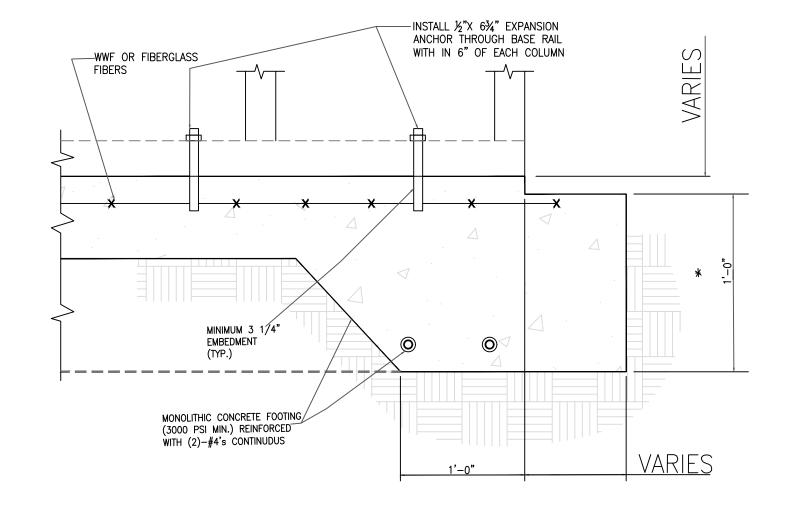
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

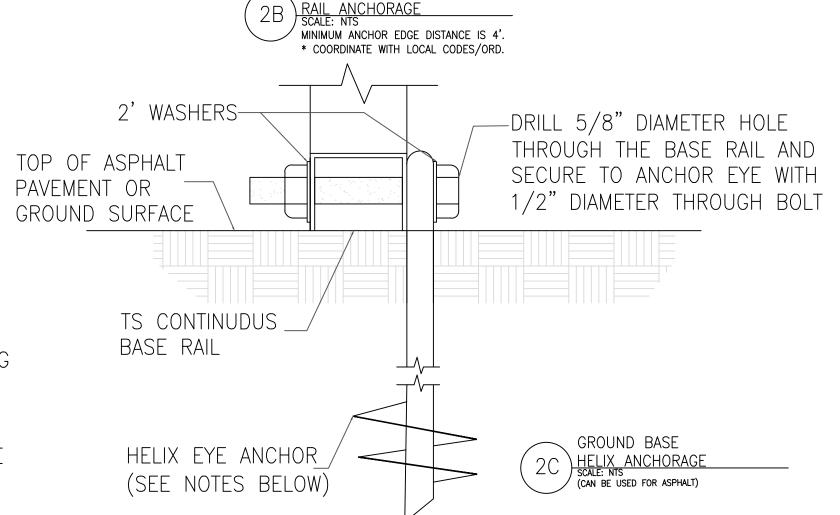
### REINFORCEMENT MAY BE BENT IN THE SHOP OR THE FIELD PROVIDED:

- 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.





CONCRETE SLAB BASE



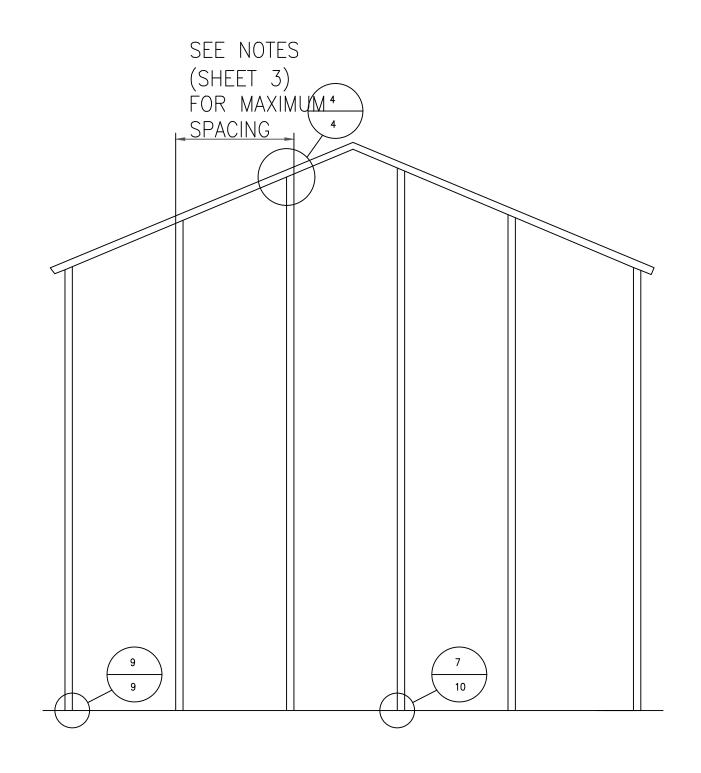
Drawn By: K.D Checked By: S.G.

Issue Date	:08-18-21
Revisions No. Date	Description
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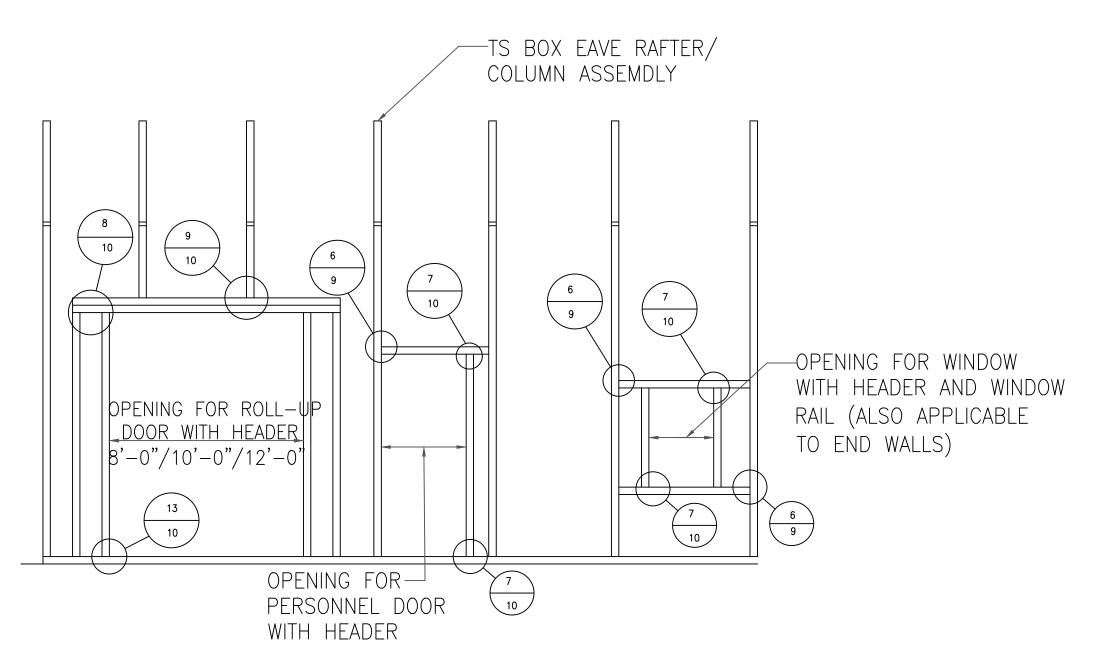
# BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



TYPICAL BOX EAVE RAFTER

END WALL FRAMING SECTION

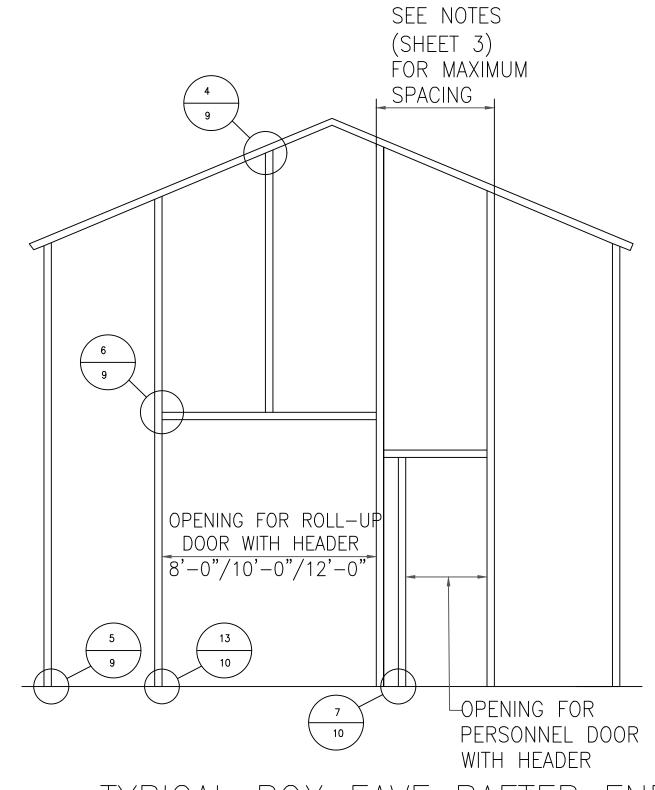
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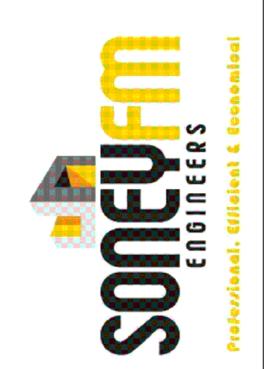
TYPICAL BOX EAVE RAFTER

SIDE WALL OPENINGS FRAMING SECTION

SCALE: N.T.S.



TYPICAL BOX EAVE RAFTER END
WALL OPENINGS FRAMING SECTION
SCALE: N.T.S.



SONEY FM LLC
KE PROFESSIONAL CENTER
ROSS CREEK BLVD., SUITE P
TAMPA, FL 33647

Job # S2080

Drawn By: K.D.

Checked By: S.G.

	Issu	ıe Date:	08-18-21
	Re No.	VISIONS Date	Description
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STATE OF FLORIDA

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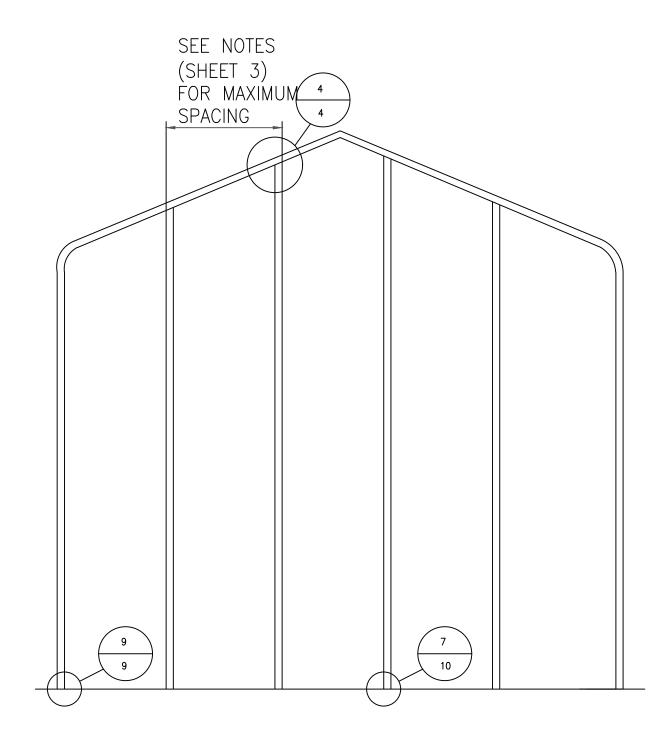
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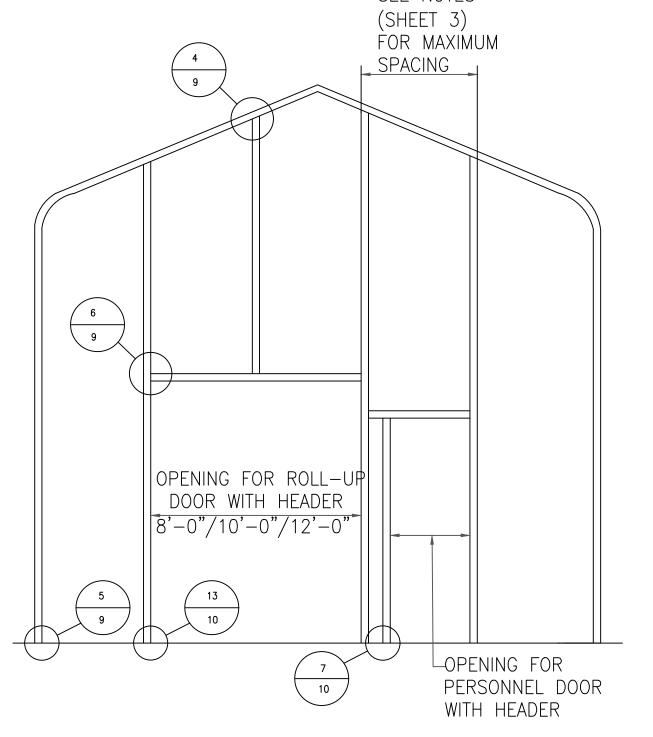
# BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



TYPICAL BOX EAVE RAFTER

END WALL FRAMING SECTION

SCALE: N.T.S.

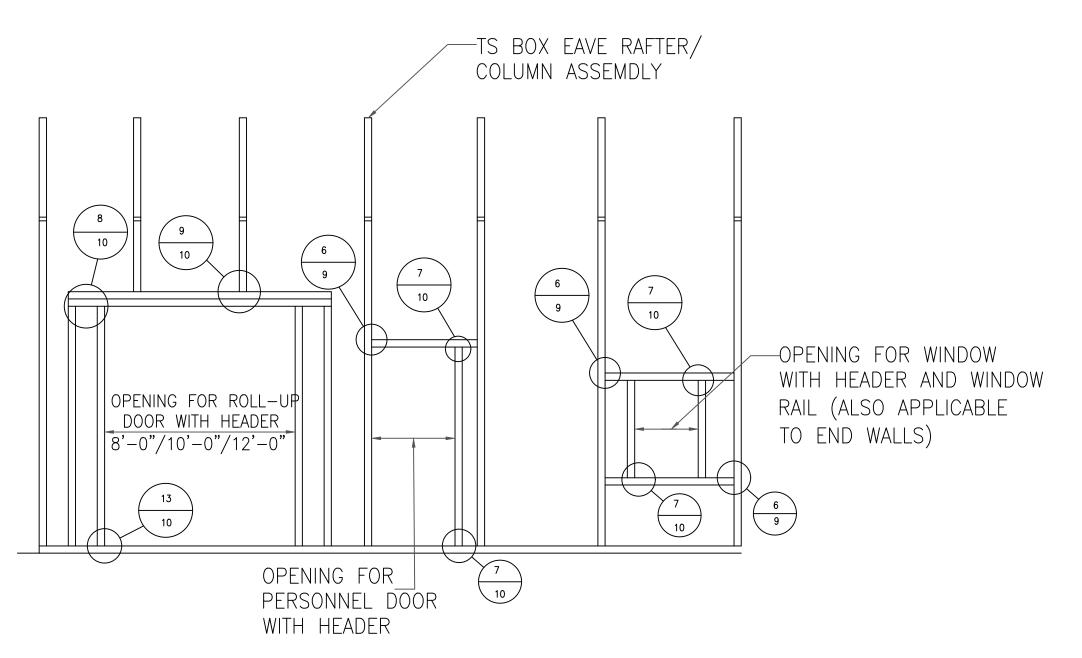


SEE NOTES

TYPICAL BOX EAVE RAFTER END

WALL OPENINGS FRAMING SECTION

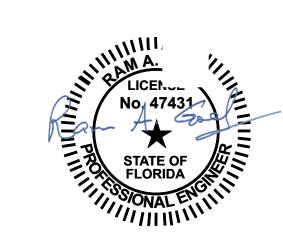
SCALE: N.T.S.



TYPICAL BOX EAVE RAFTER

SIDE WALL OPENINGS FRAMING SECTION

SCALE: N.T.S.



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SONEY FM LLC

RY LAKE PROFESSIONAL CENTER
329 CROSS CREEK BLVD., SUITE P
TAMPA, FL 33647

www.soneyfmllc.com

Job # S2080

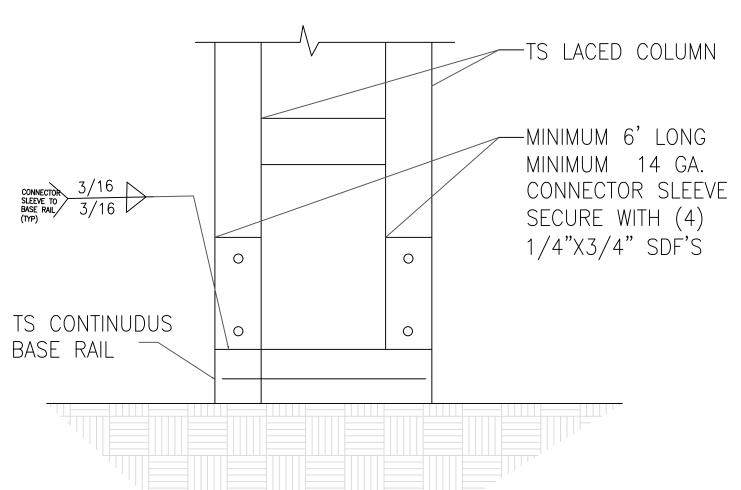
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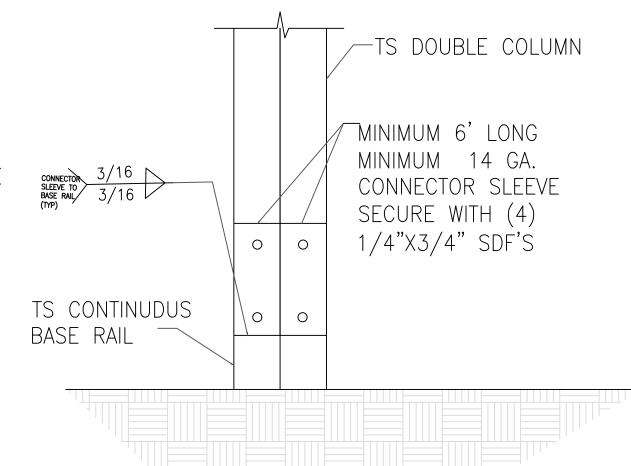
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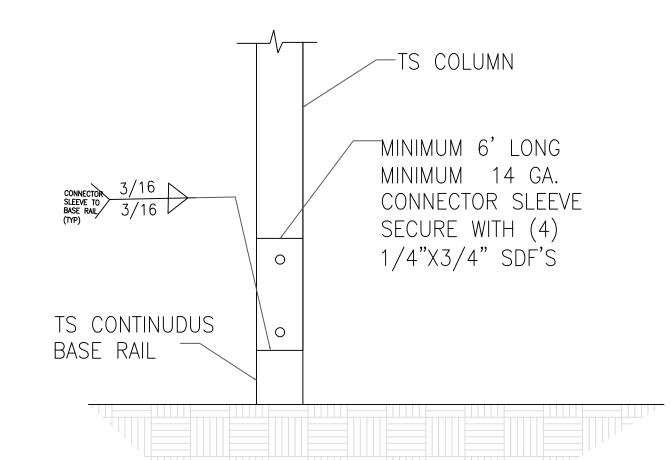
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PENINGS
AL MANUFACTURING, LLC
FL 32060

## CONNECTION DETAILS







POST/BASE RAIL

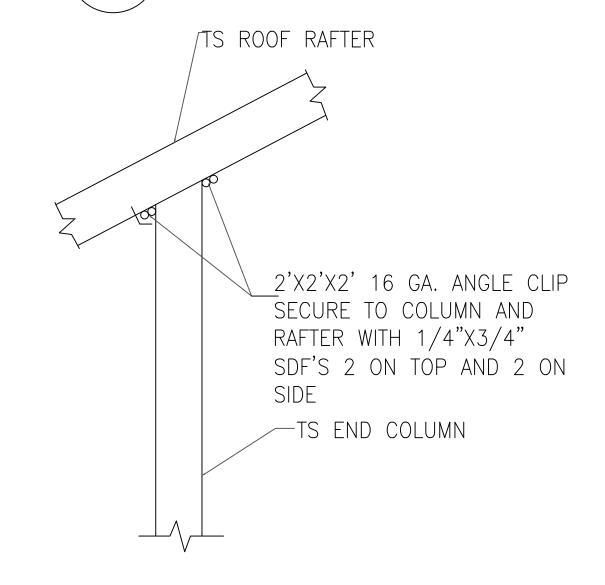
CONNECTION DETAIL

SCALE: NTS

POST/BASE RAIL

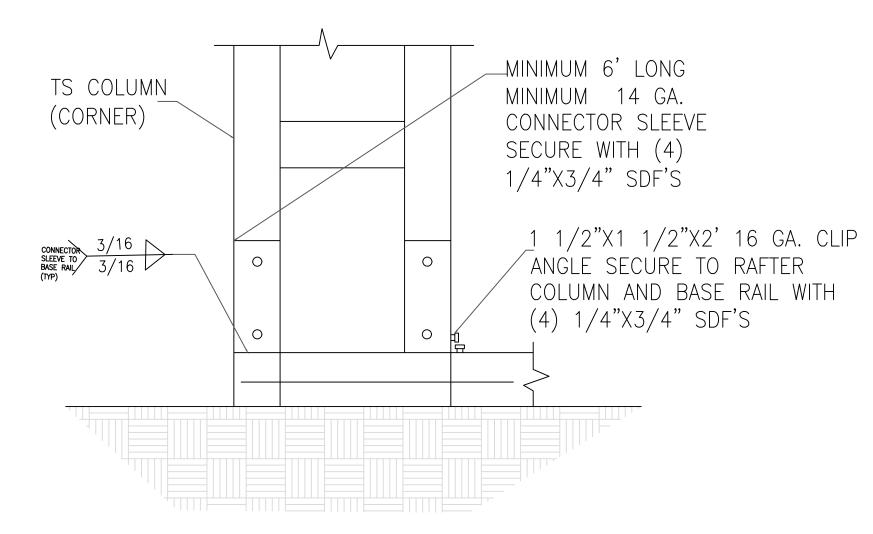
CONNECTION DETAIL

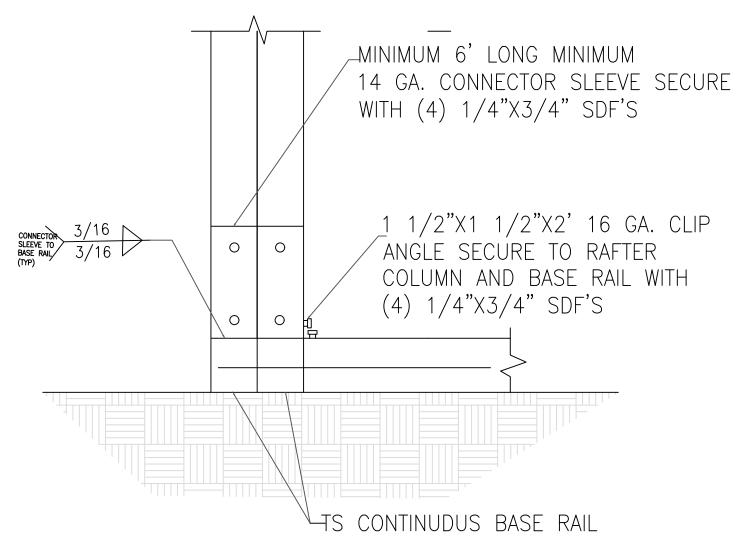
SCALE: NTS



POST/BASE RAIL

CONNECTION DETAIL
SCALE: NTS





END COLUMN/BASE RAIL

SCALE: NTS

CONNECTION DETAIL

END COLUMN/BASE RAIL

SCALE: NTS

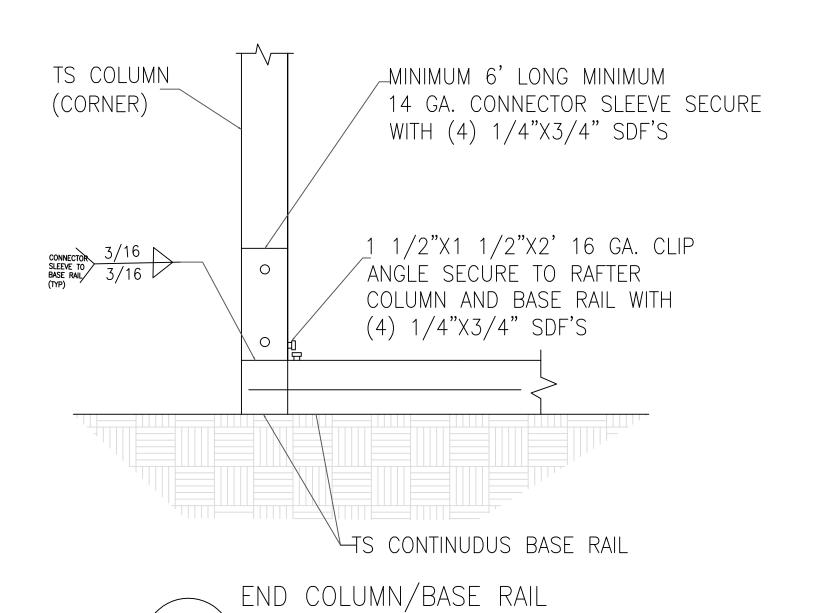
CONNECTION DETAIL

SCALE: NTS

END COLUMN/RAFTER

4 CONNECTION DETAIL

SCALE: NTS



CONNECTION DETAIL

SCALE: NTS

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SONEY CORY LAKE PROFE 10329 CROSS CREI TAMPA, I

Job # S2080

Drawn By: K.D.

Checked By: S.G.

Revisions: No. Date

ssue Date:08—18—2

MANUF

Description

### CONNECTION DETAILS

2'x2'x2' 16 GA. ANGLE CLIP SECURE TO COLUMN (EACH

CHORD/RAIL WITH 1/4"X3/4"

SDF'S 2 ON BOTTOM AND 2

NOTE: AT ROLL-UP DOOR

BE FLUSH WITH RAIL END

ON SIDE OPPSITE THE

OPENINGS, COLUMN SHOULD

CLIP COLUMN TO RAIL ONLY

SIDE)AND RAFTER

ON SIDE

OPENING.

COLUMN TO HEADER, BASE RAIL OR

TS COLUMN

→MINIMUM 6' LONG, MINIMUM

14 GA. TS SLEEVE, SECURE

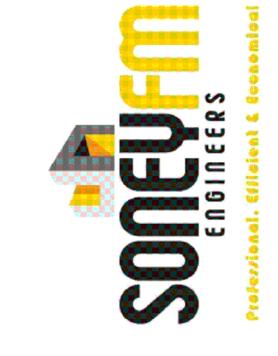
TS DOUBLE HEADER

COLUMN/DOUBLE HEADER
CONNECTION DETAIL
SCALE: NTS

(4) 1/4"X3/4" SDF'S

WINDOW RAIL CONNECTION DETAIL

SCALE: NTS



SONEY FM I CORY LAKE PROFESSIC 10329 CROSS CREEK B TAMPA, FL 33

Job # S2080 Drawn By: K.D. Checked By: S.G.

ssue Date:08-18-2 Revisions: Description

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TS DOUBLE HEADER MINIMUM 6' LONG, MINIMUM 14 GA. TS SLEEVE, SECURE EACH WITH (4) 1/4"X3/4"SDF'S TS COLUMN

TS ROOF RAFTER

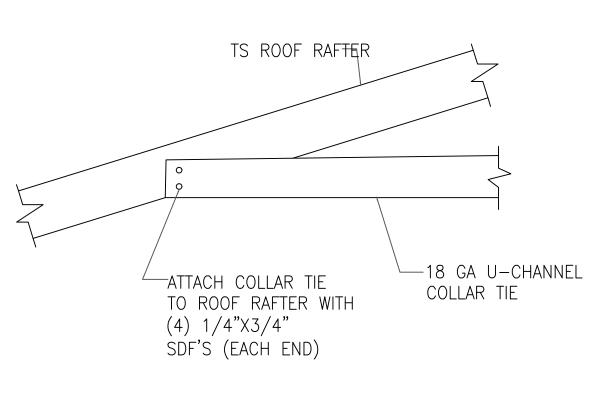
—TS CHORD

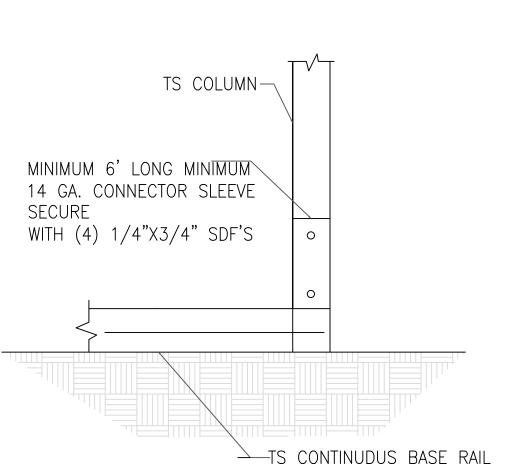
RAFTER TO CHORD

SCALE: NTS

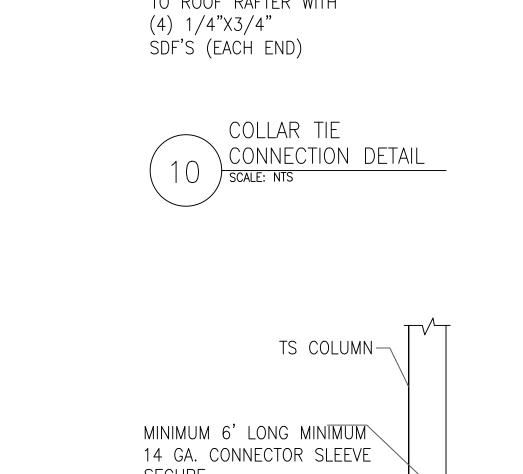
CONNECTION DETAIL

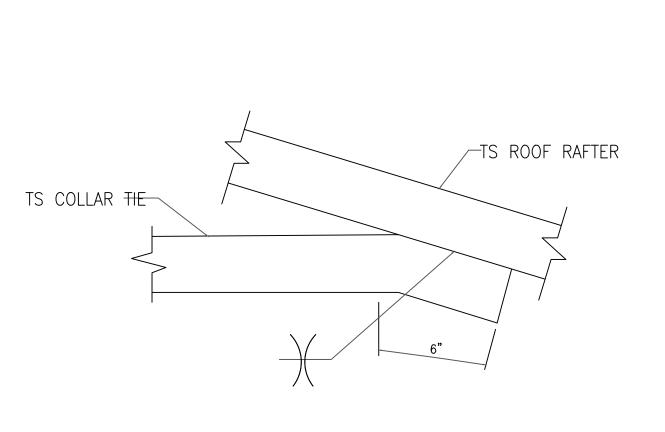
DOUBLE HEADER/COLUMN
CONNECTION DETAIL
SCALE: NTS





COLUMN/BASE RAIL CONNECTION DETAIL SCALE: NTS





TS TRUSSED RAFTER

TS END COLUMN

TS HEADER BA<u>SE</u>

RAIL, OR WINDOW

FRAME POST

OR DOOR WINDOW

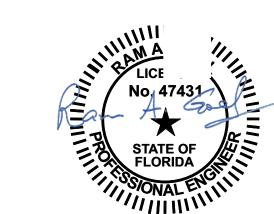
HEADER

RAIL

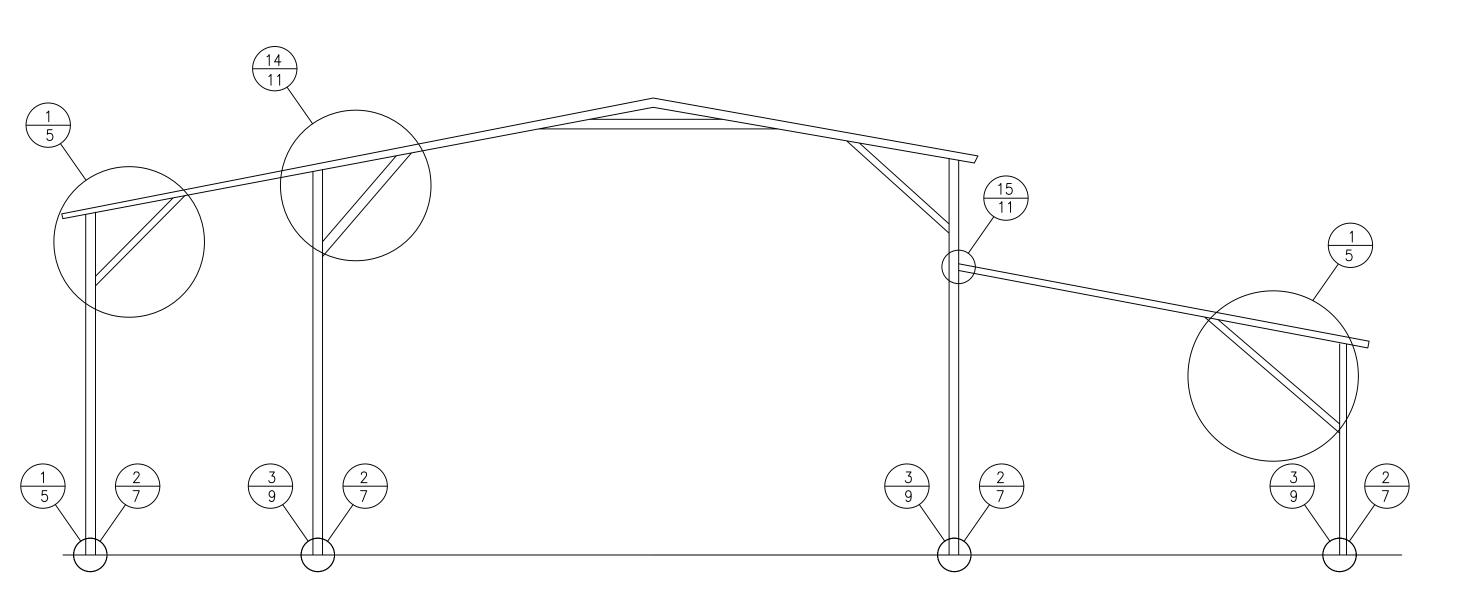
CONNECTOR 3/16
SLEEVE TO HEADER 3/16

CHORD OR NON-STRUCTURAL

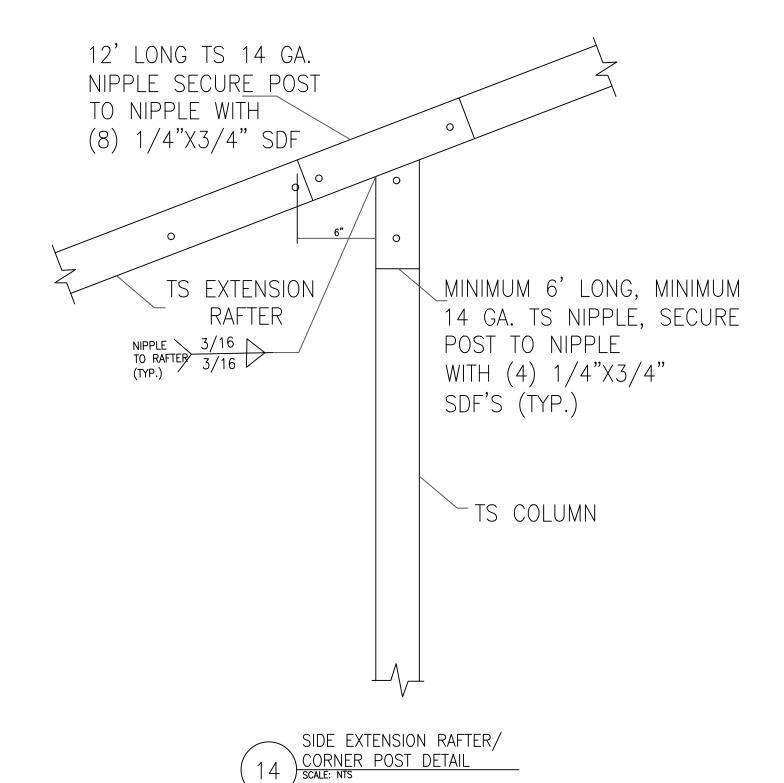


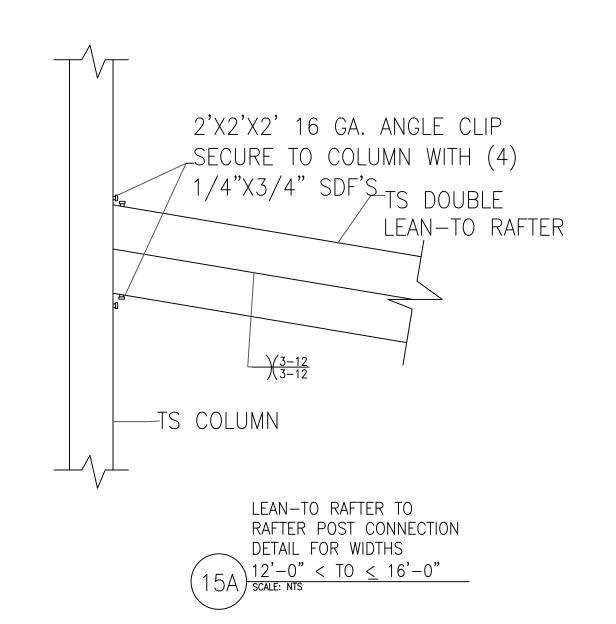


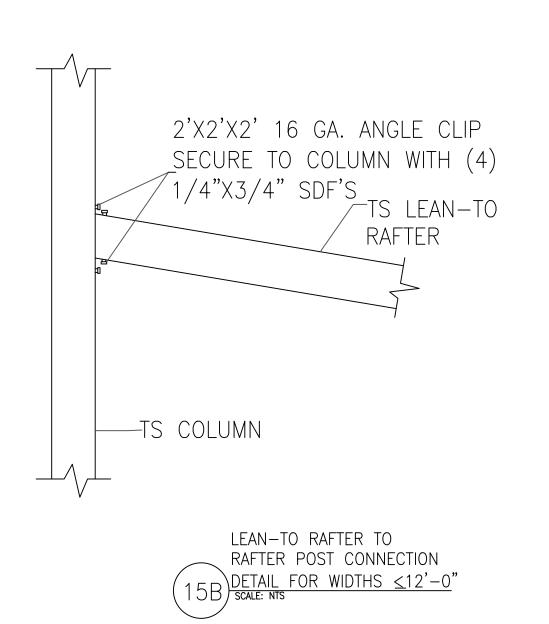
### BOX EAVE RAFTER LEAN-TO OPTIONS

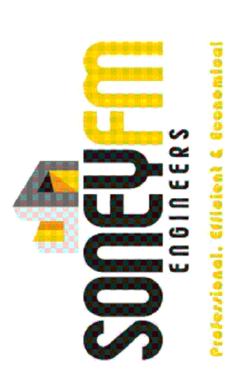


### TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN) SCALE: NTS









Job # S2080 Drawn By: K.D. Checked By: S.G.

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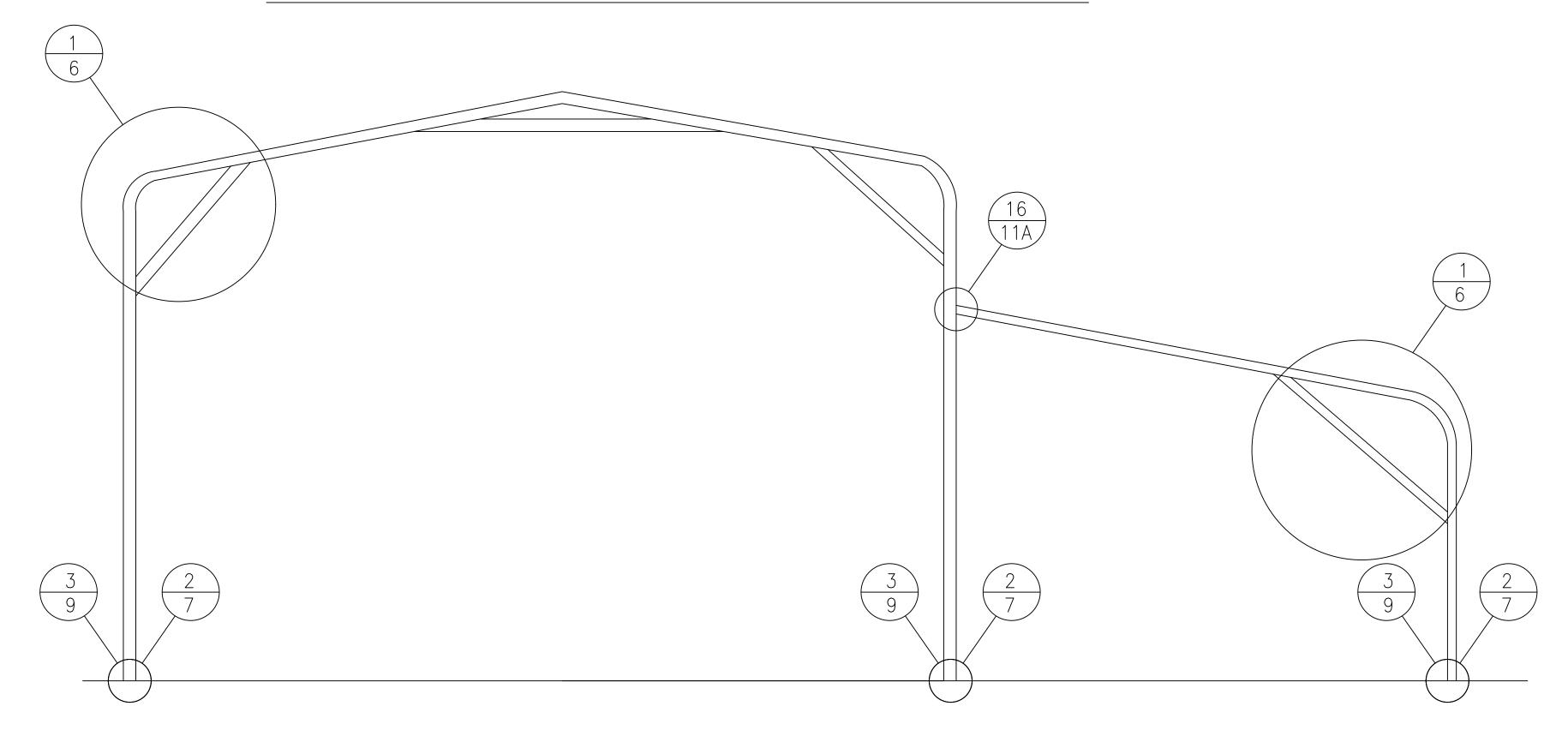
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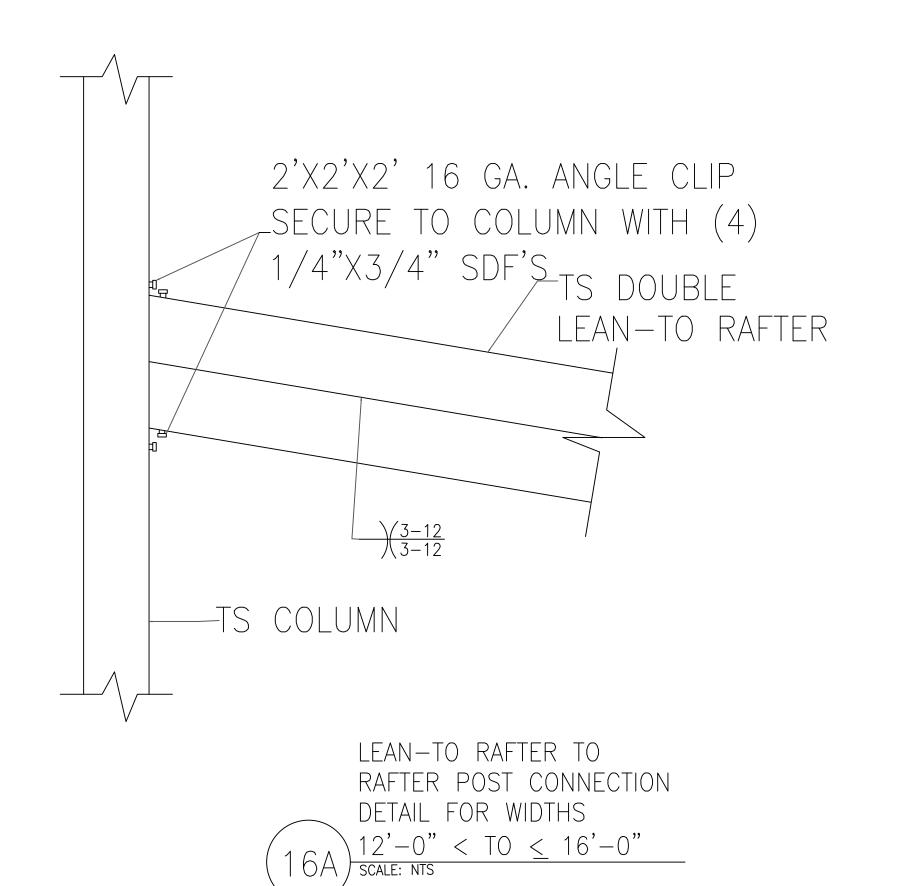
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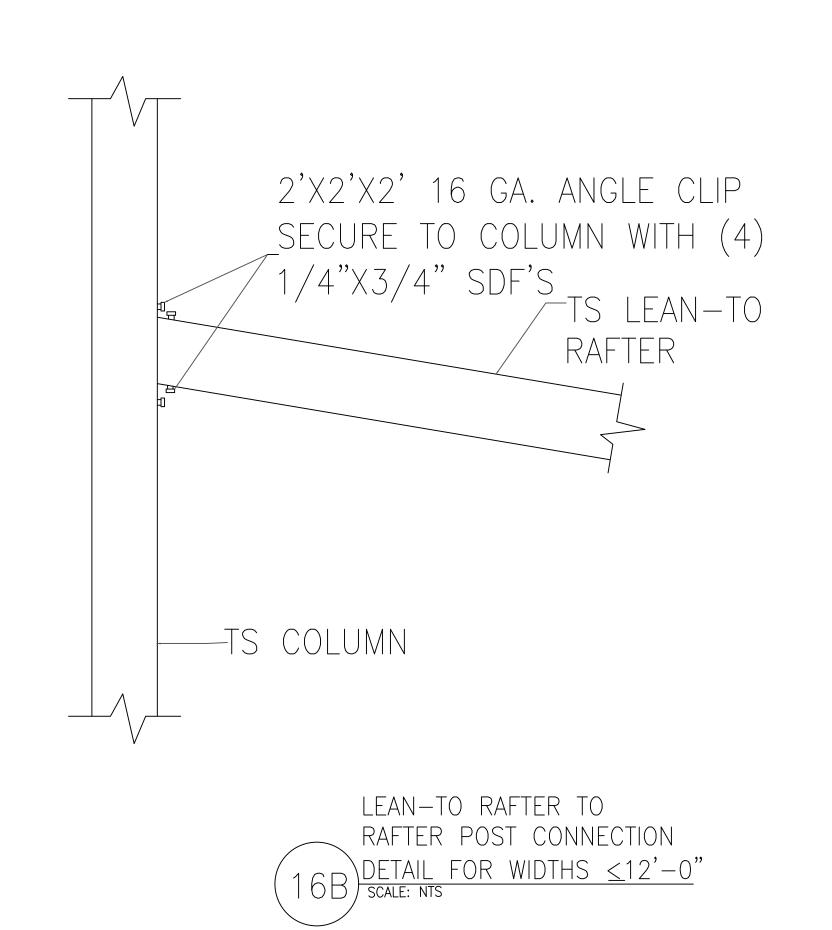
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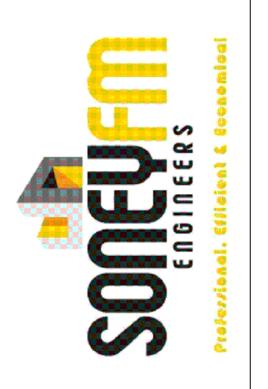
### BOX EAVE RAFTER LEAN-TO OPTIONS



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





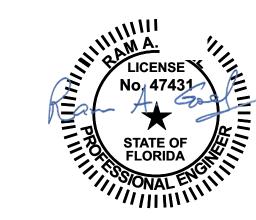


SONEY FM LLC
ORY LAKE PROFESSIONAL CENTER
0329 CROSS CREEK BLVD., SUITE P
TAMPA, FL 33647
www.soneyfmllc.com

Job	# S	2080	
Drawn	Ву:	K.D.	
Checke	d By:	S.G.	

Issue Date	:08-18-21				
	Revisions:				
No. Date	Description				

RAFTER LEAN-TO OPTIONS
AL MANUFACTURING, LLC
FL 32060



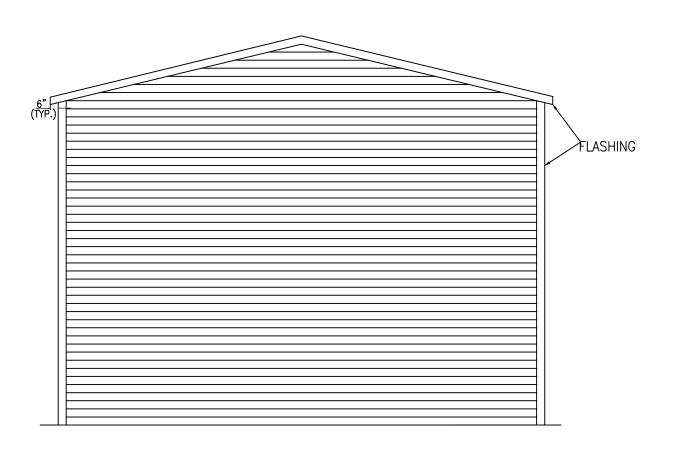
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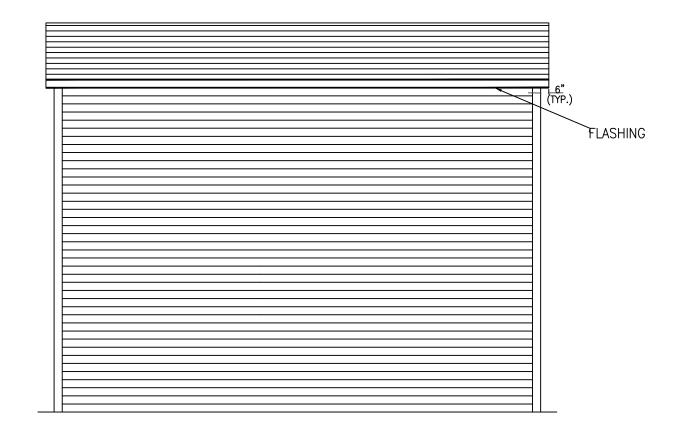
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## BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



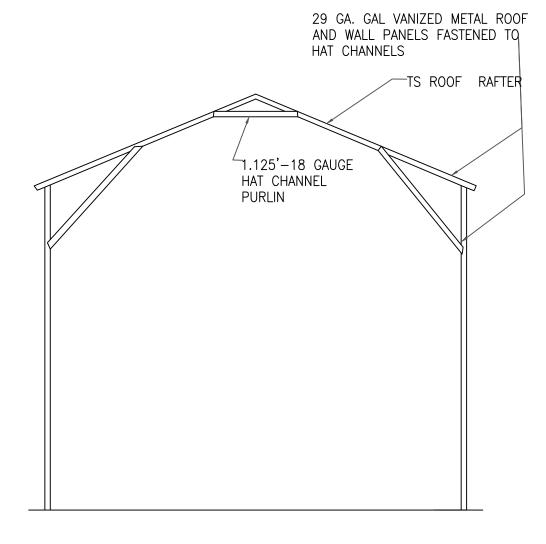
TYPICAL END ELEVATION VERTICAL ROOF/SIDING



TYPICAL SIDE ELEVATION

VERTICAL ROOF/SIDING

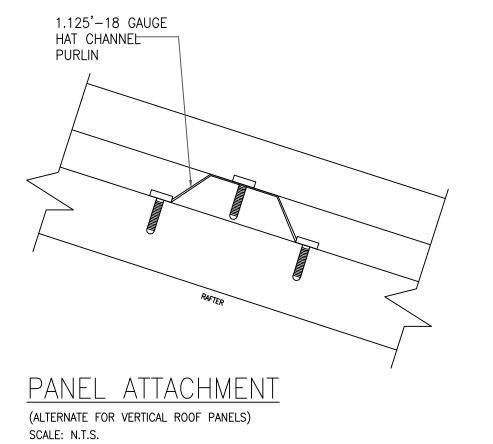
SCALE: N.T.S.



TYPICAL SECTION

VERTICAL ROOF/SINDING OPTION

SCALE: N.T.S.





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Drawn By: K.D.

Checked By: S.G.

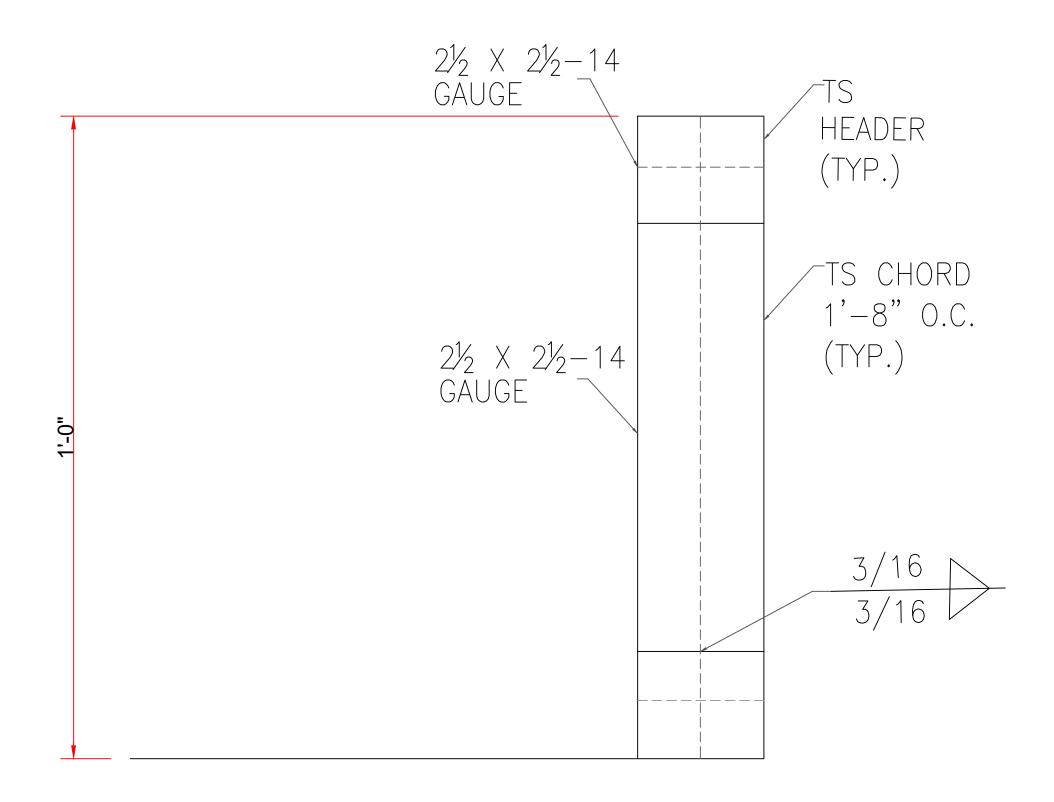
/ O.C. (MA	18 GAUGE HAT CHANNEL PU AX.) AND FASTENED TO EACH "X3/4" SPF'S SEE NOTES (SHEET 3) FOR MAXIMI	H RAFTER WITH	4'-0"
	I-SPACING	-	
			¬
			_
			6" (TYP)
			()
6			TS GIRT SPACED AT
9			4'-0" OC (MAX.)
			_

TYPICAL FRAME SECTION

VERTICAL ROOF/SIDING OPTION

SCALE: N.T.S.

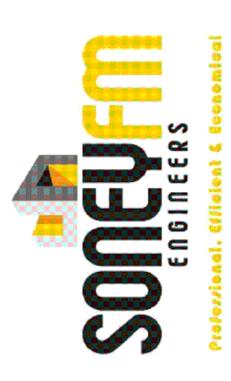
# OPTIONAL HEADER



HEADER DETAIL FOR DOOR

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

SCALE: N.T.S.



4:-813-388-6090 SONEY FM LLC KE PROFESSIONAL CENTER OSS CREEK BLVD., SUITE P

Job # S2080 Drawn By: K.D.

Checked By: S.G.

Revisions:
No. Date Description

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MANUFACTURING

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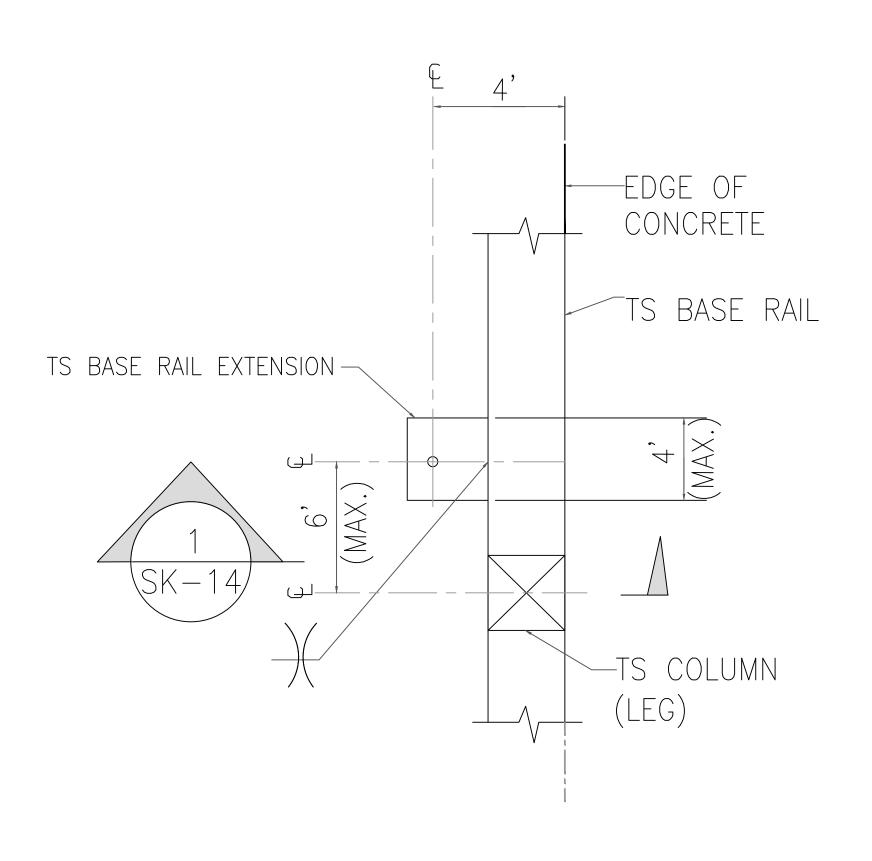
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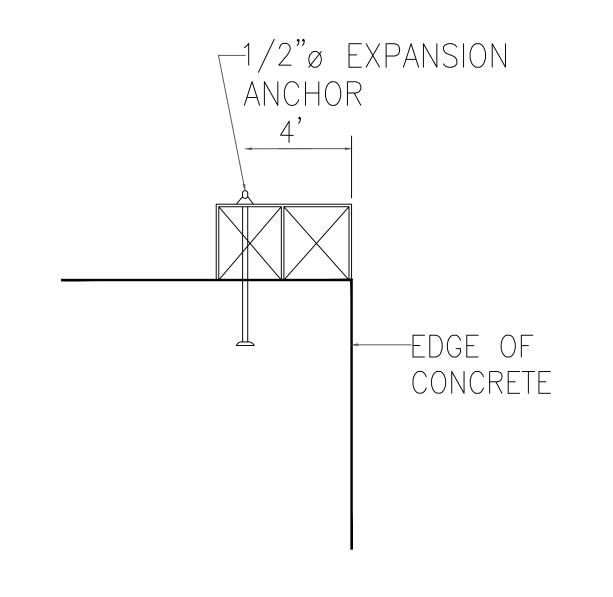
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### <u>ADDITIONAL BASE RAIL ANCHORAGE OPTION</u>

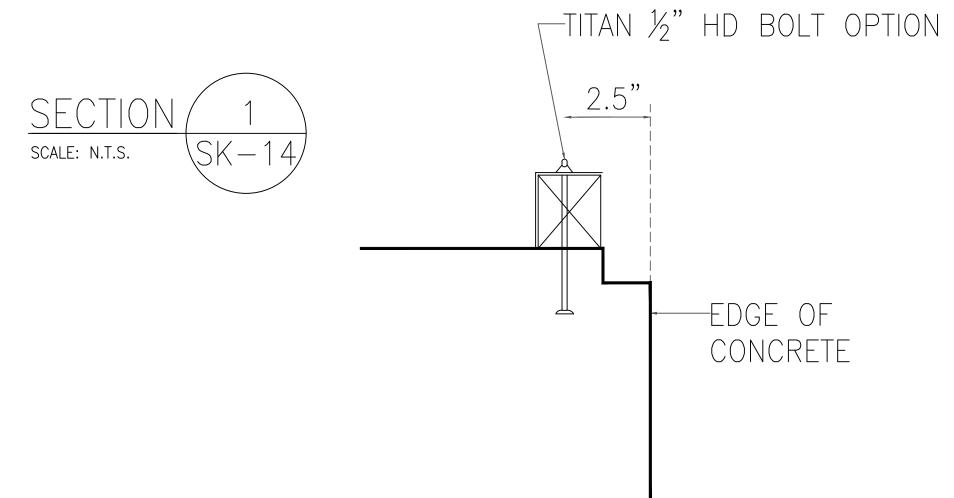


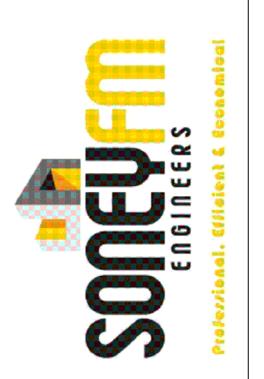


TYPICAL ANCHOR DETAIL WHEN

BASE RAIL IS NEAR EDGE OF CONCRETE

SCALE: N.T.S.





SONEY FM LLC
LAKE PROFESSIONAL CENTER
CROSS CREEK BLVD., SUITE P
TAMPA, FL 33647

Job # S2080

Drawn By: K.D.

Checked By: S.G.

Issi	ue Date	:08-18-21
Re No.	VISIONS Date	Description
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AGE OPTION

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FIONAL BASE RAIL AN

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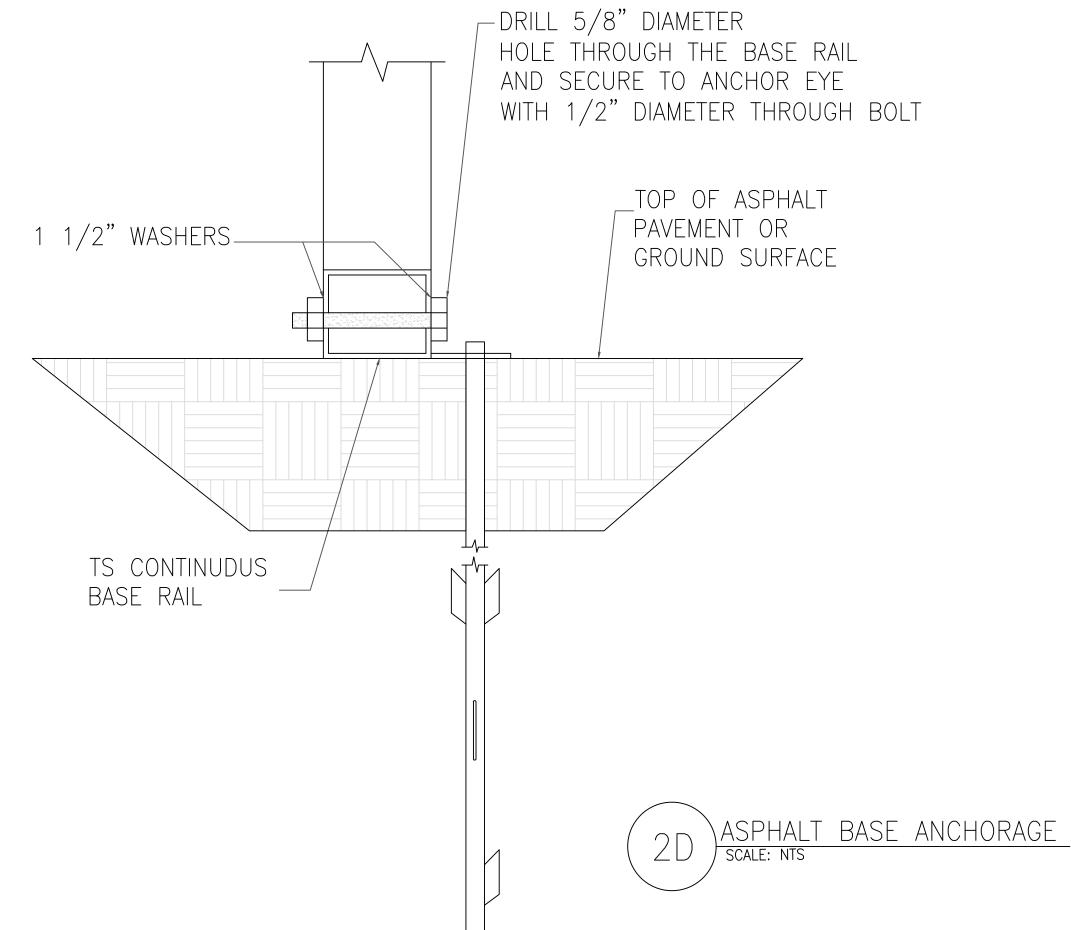
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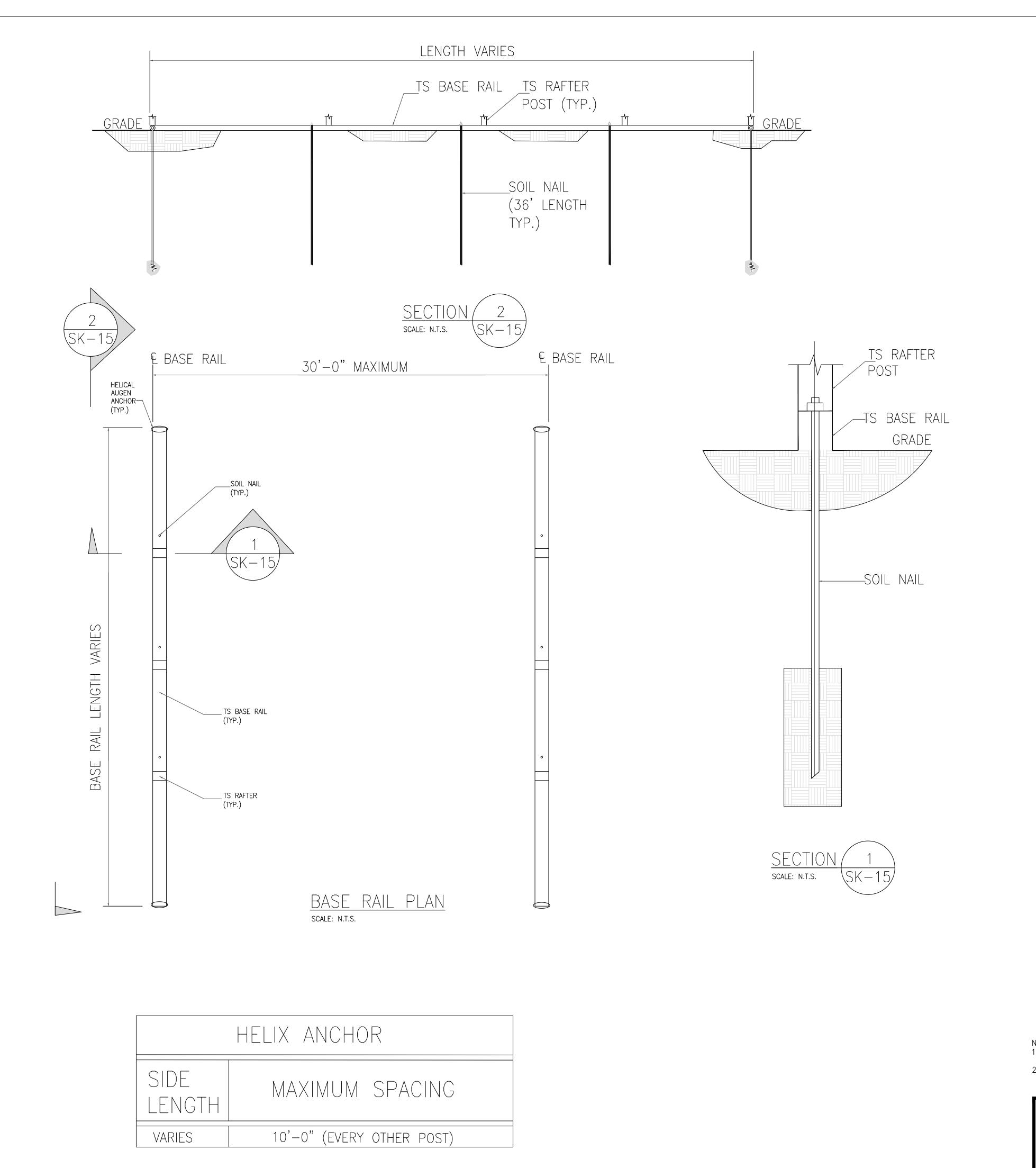
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ssue Date:08—18—2 Description

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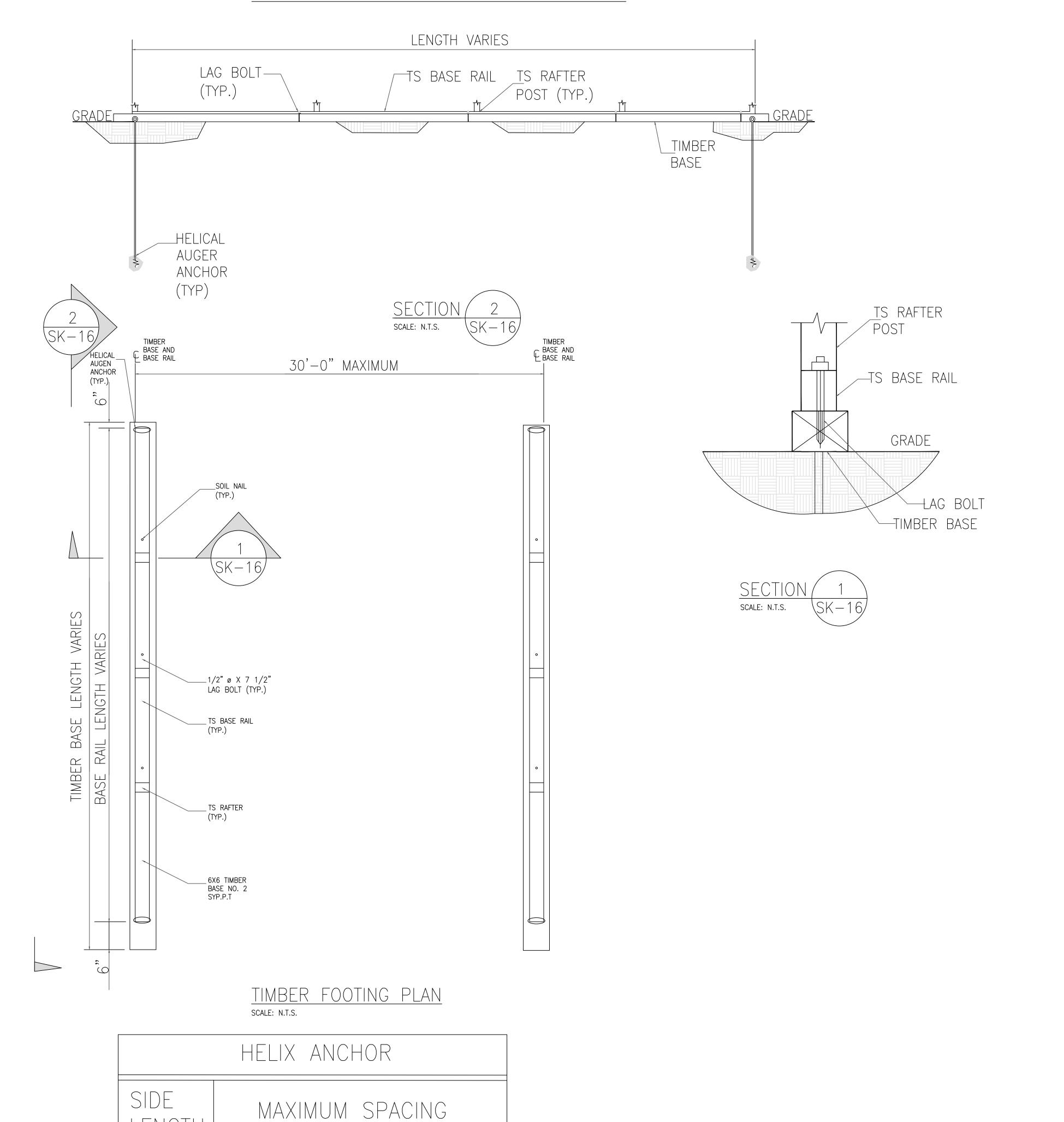
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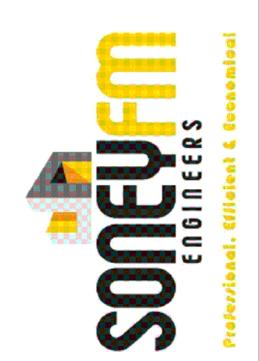
### OPTIONAL BASE RAIL ON GRADE APPLICATION



LENGTH

VARIES

10'-0" (EVERY OTHER POST)



SONEY I CORY LAKE PROFE 10329 CROSS CREI TAMPA, F

Job # S2080 Drawn By: K.D. Checked By: S.G.

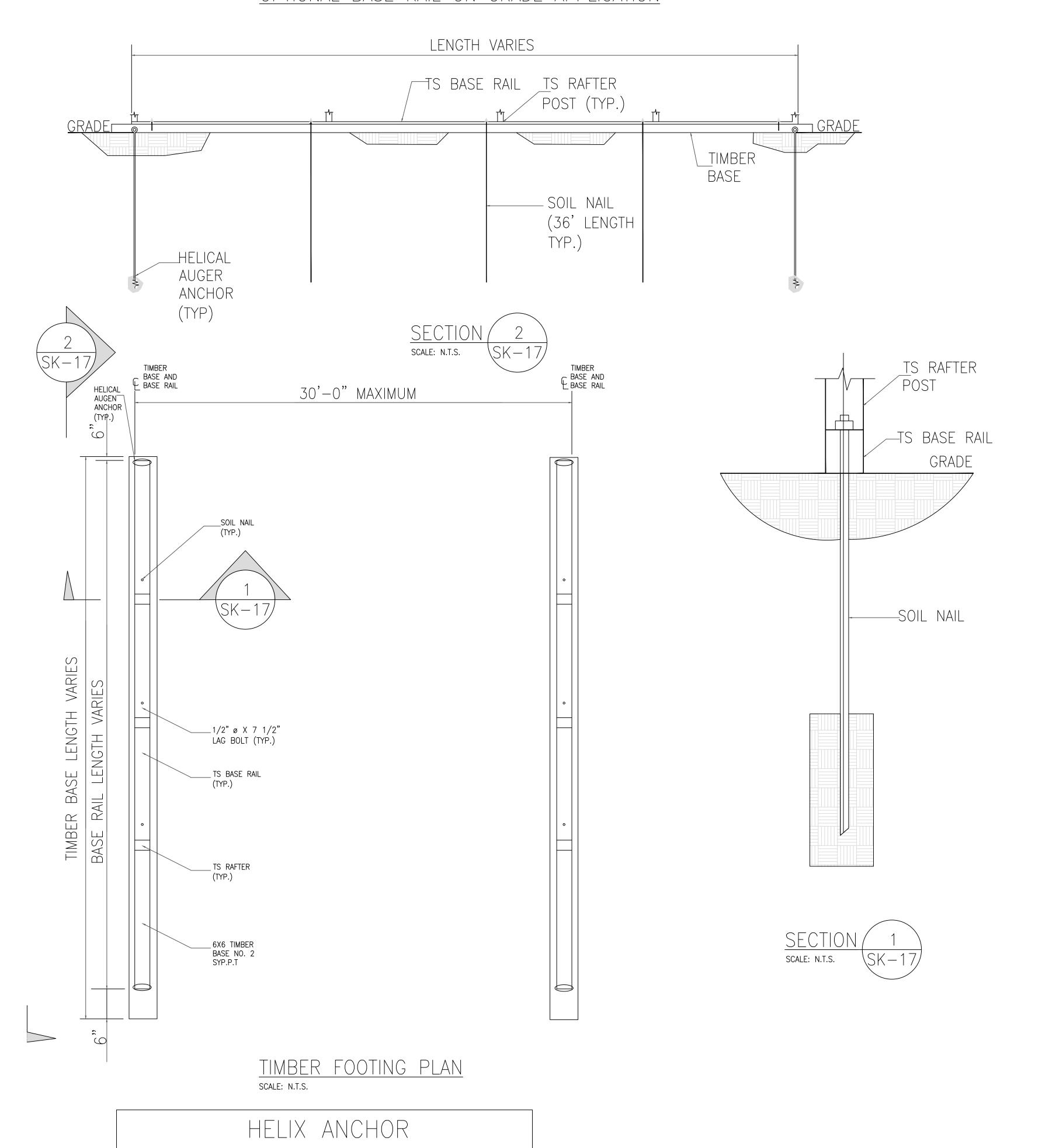
Issue Date:08—18—21				
Revisions:				
No. Date	Description			
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### <u>OPTIONAL BASE RAIL ON GRADE APPLICATION</u>



MAXIMUM SPACING

10'-0" (EVERY OTHER POST)

\_ENGTH

VARIES



I:-813-388-6090
SONEY FM LLC
TE PROFESSIONAL CENTER
OSS CREEK BLVD., SUITE P

SONEY FM LL
CORY LAKE PROFESSION
10329 CROSS CREEK BLY
TAMPA, FL 336

Job # S2080

Drawn By: K.D.

Checked By: S.G.

Issue Date:08—18—21				
Revision: No. Date	evisions:  Description			
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ON GRADE APPLICA

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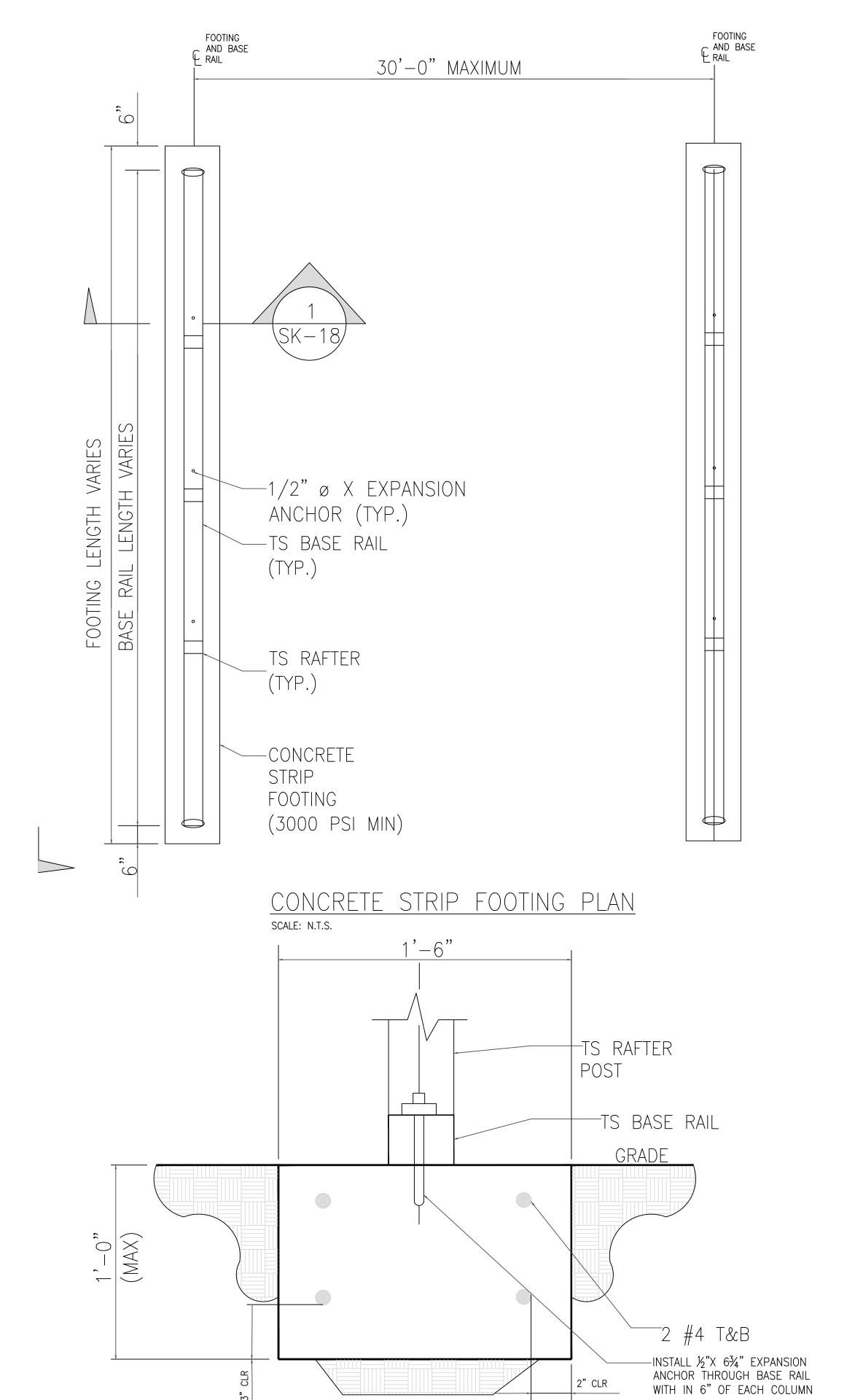
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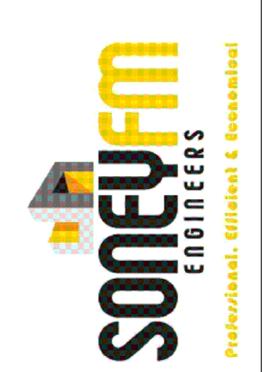
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### OPTIONAL CONCRETE STRIP FOOTING



SCALE: N.T.S.

¤ COORDINATE WITH LOCAL CODES/ORD.



Drawn By: K.D. Checked By: S.G.

ssue Date:08—18—21			
Revisions: No. Date Description			
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