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MASTER SET



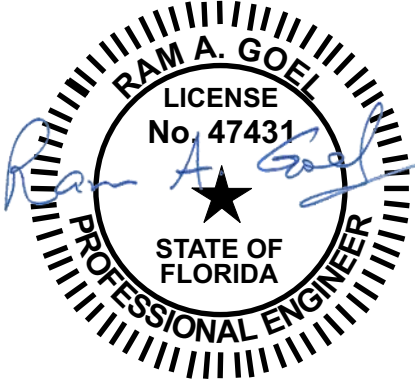
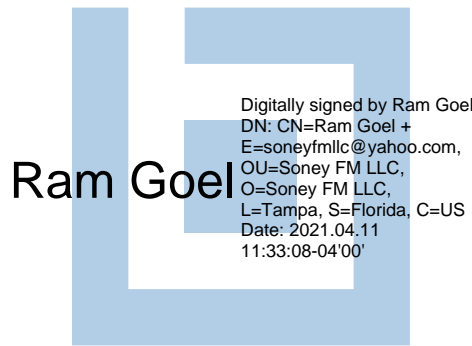
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Job # S2080  
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Checked By: S.G.

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DRAWING INDEX

ELITE METAL MANUFACTURING,LLC  
10121 88TH TRACE  
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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

B) LIVE LOAD = 12 PSF

C) GROUND SNOW LOAD = 30 PSF (( 26’-0”), 35 PSF (26’-0” < W ≤ 30’-0”)

(UNBALANCED SNOW LOADS DUE TO DRIFTING HAVE NOT BEEN EVALUATED.)
4. 3-SECOND GUST ULTIMATE WIND SPEED (V<sub>ULT</sub>) 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 I<sub>E</sub>= 1.0

S<sub>DS</sub>= 2.0369 V= C<sub>s</sub>W

S<sub>D1</sub>= 1.258
14. WINDOW AND DOOR DESIGN PRESSURES ARE APPLICABLE TO THE FLORIDA ONLY.



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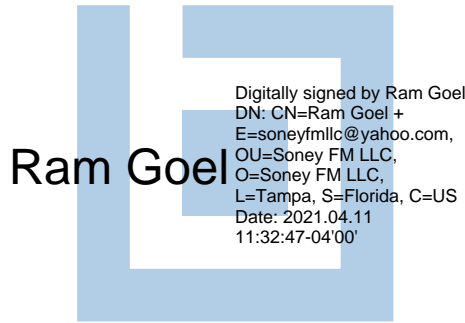
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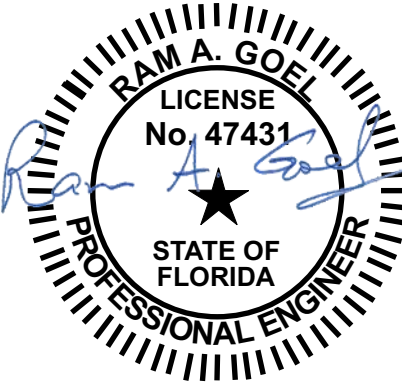
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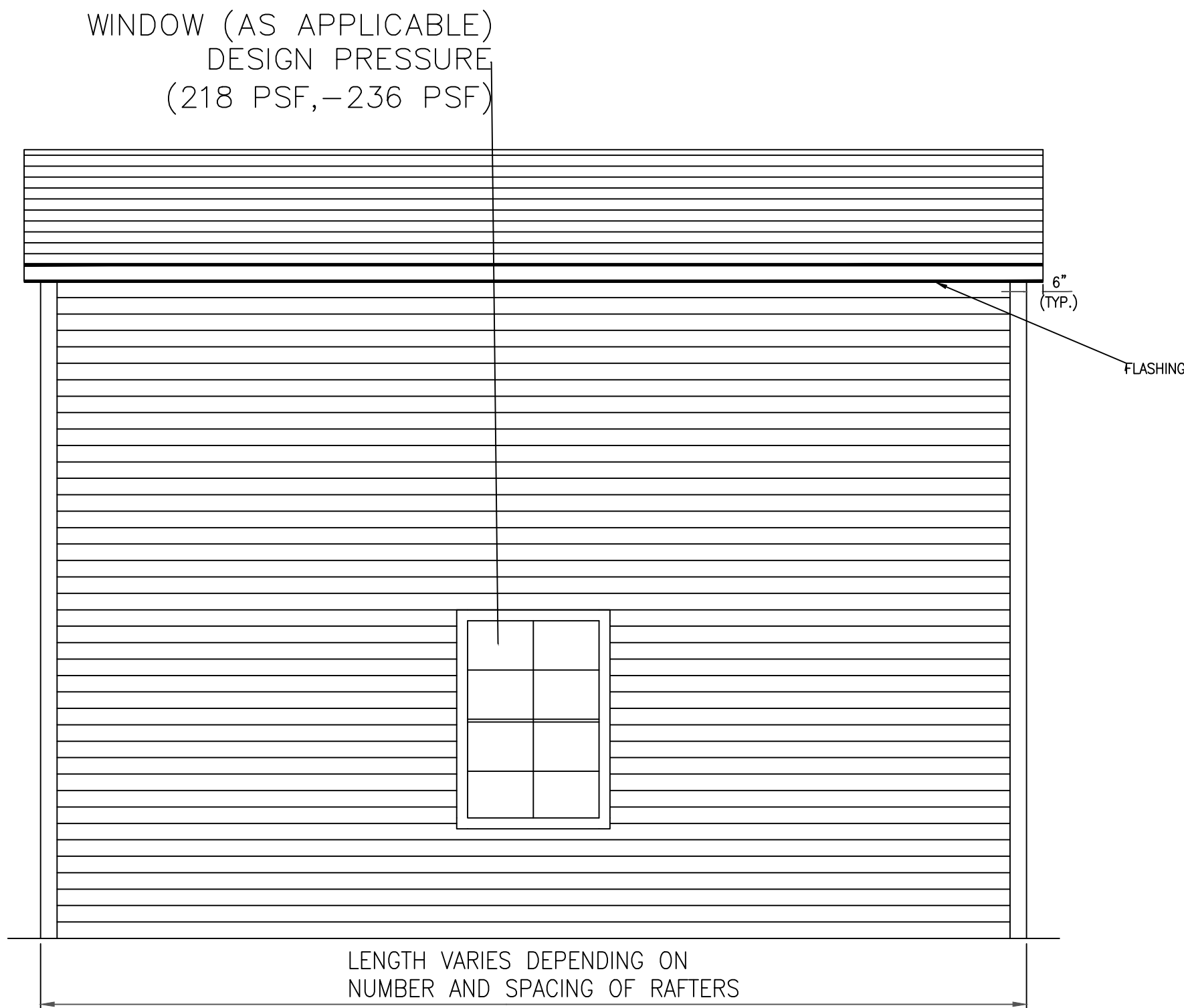
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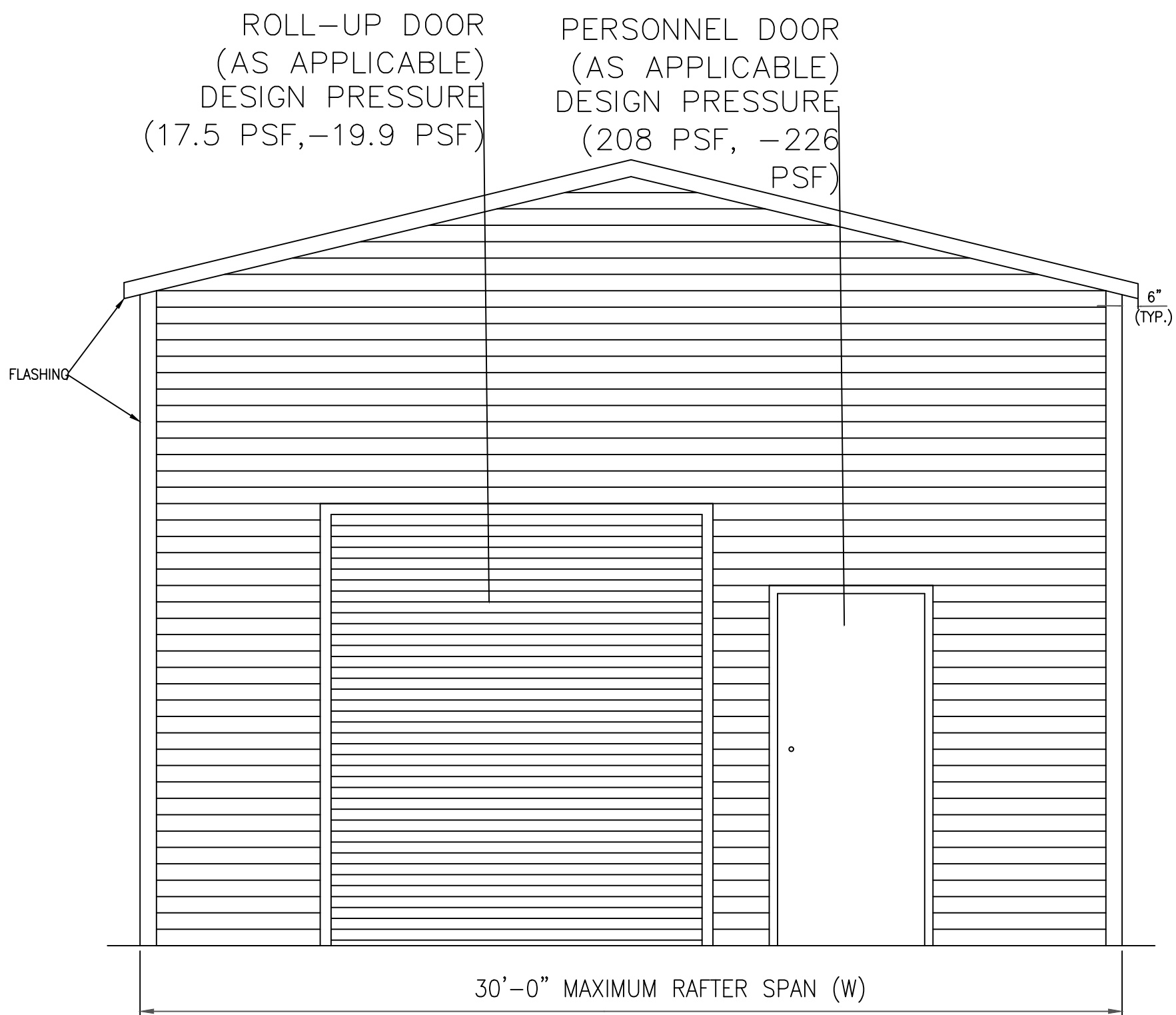
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BOX EAVE FRAME RAFTER STRUCTURE



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TYPICAL END ELEVATION  
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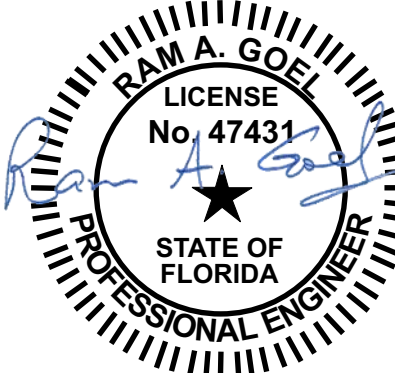
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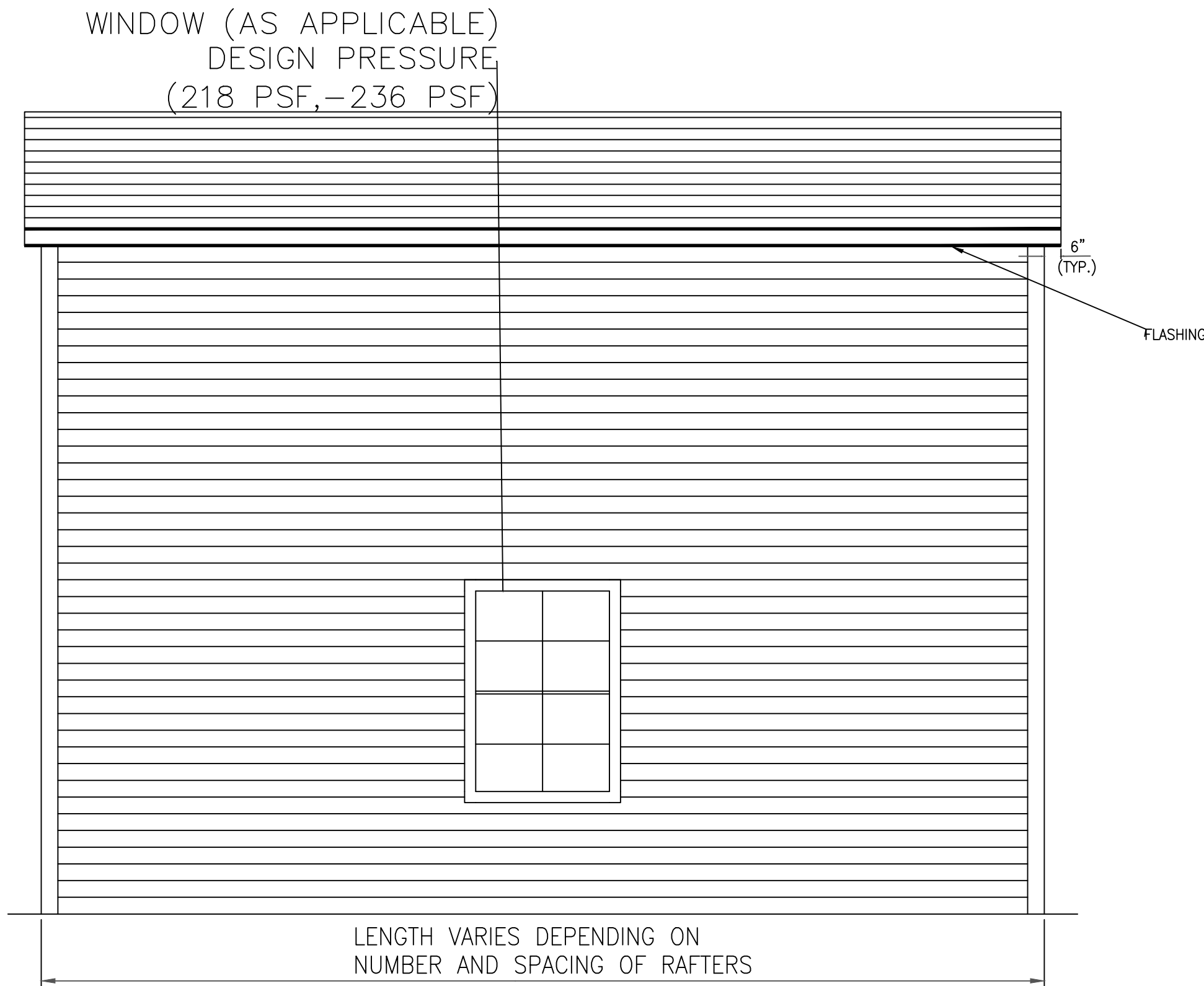
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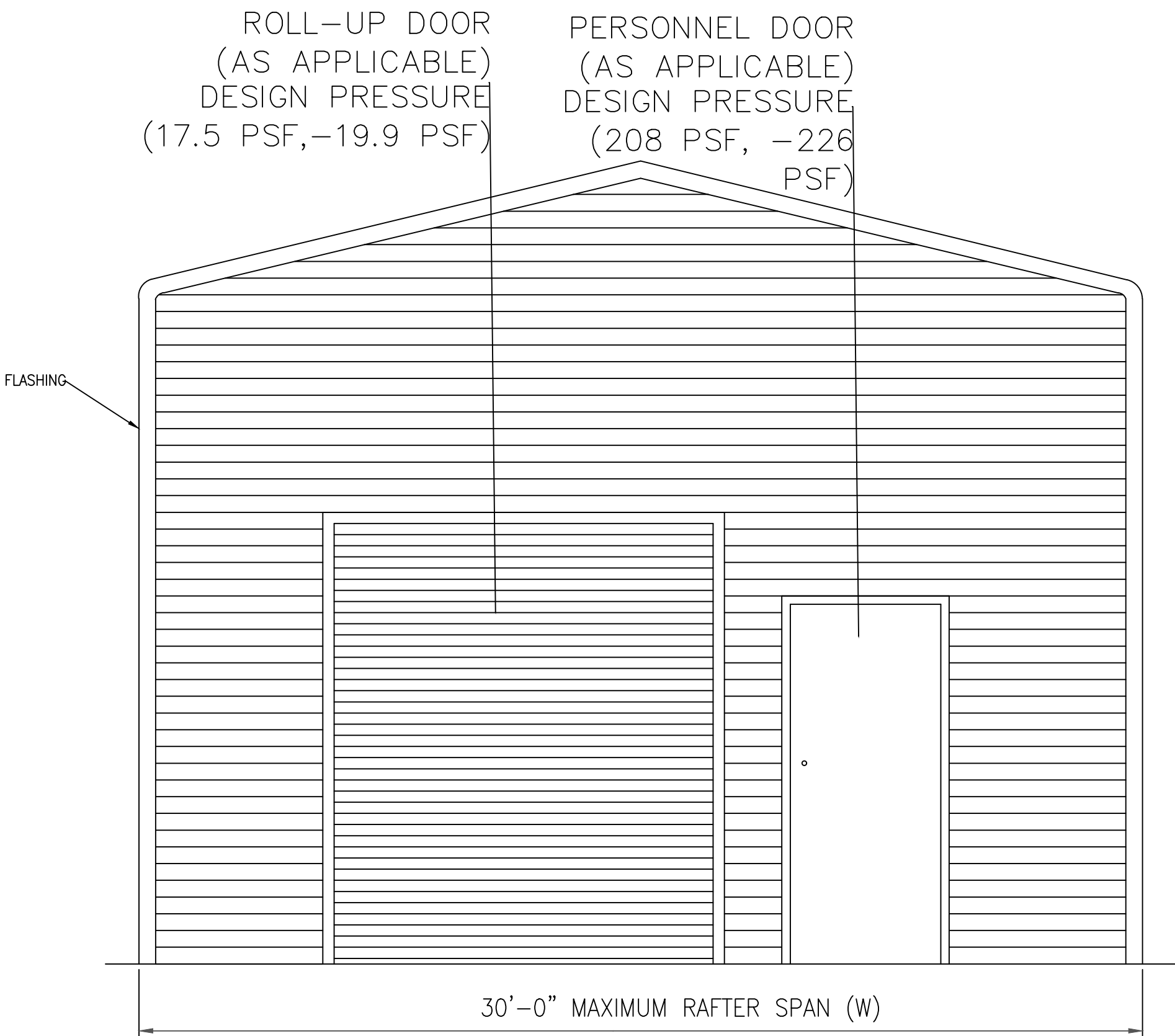
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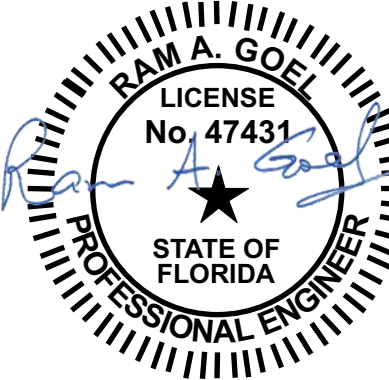
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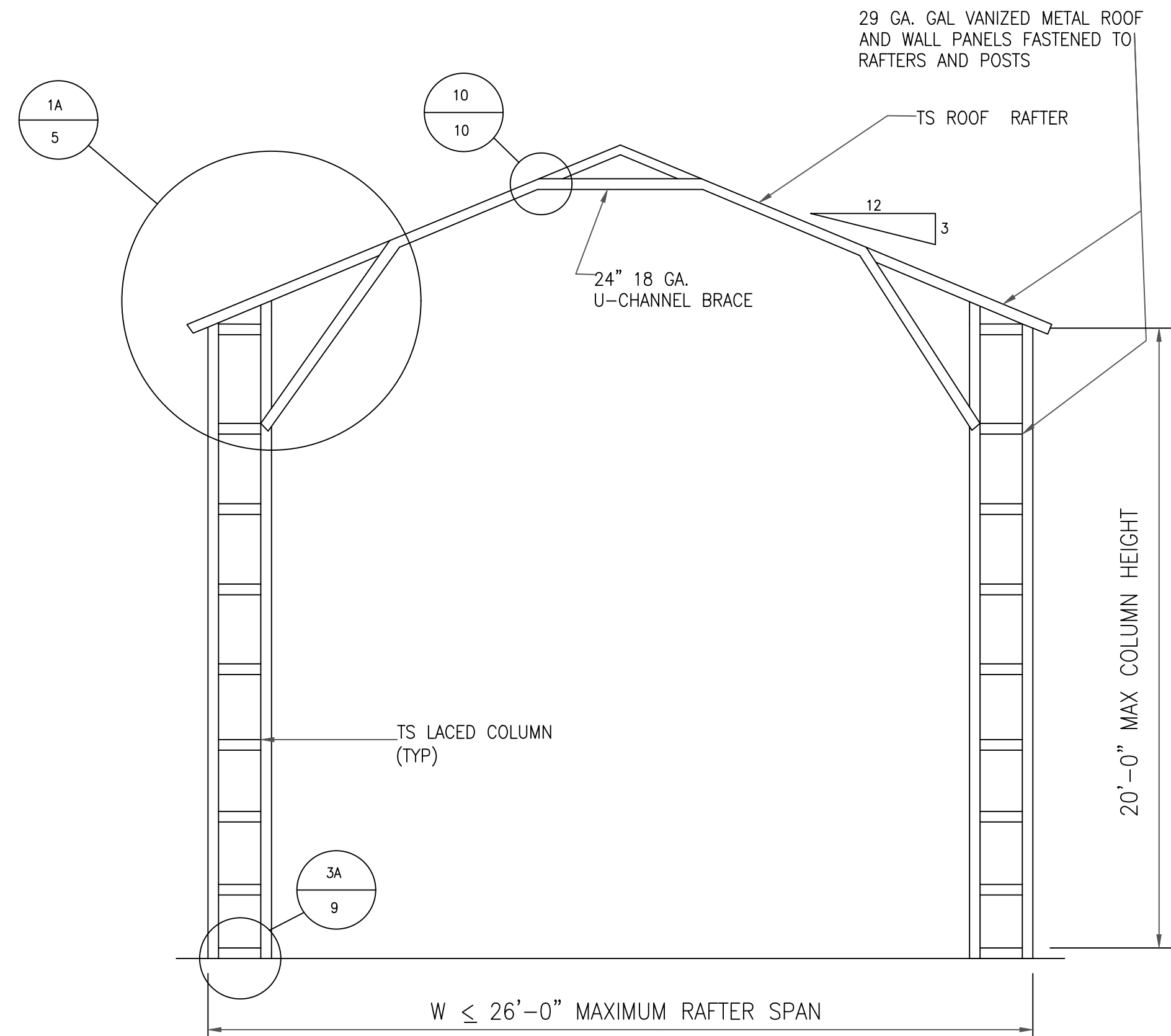


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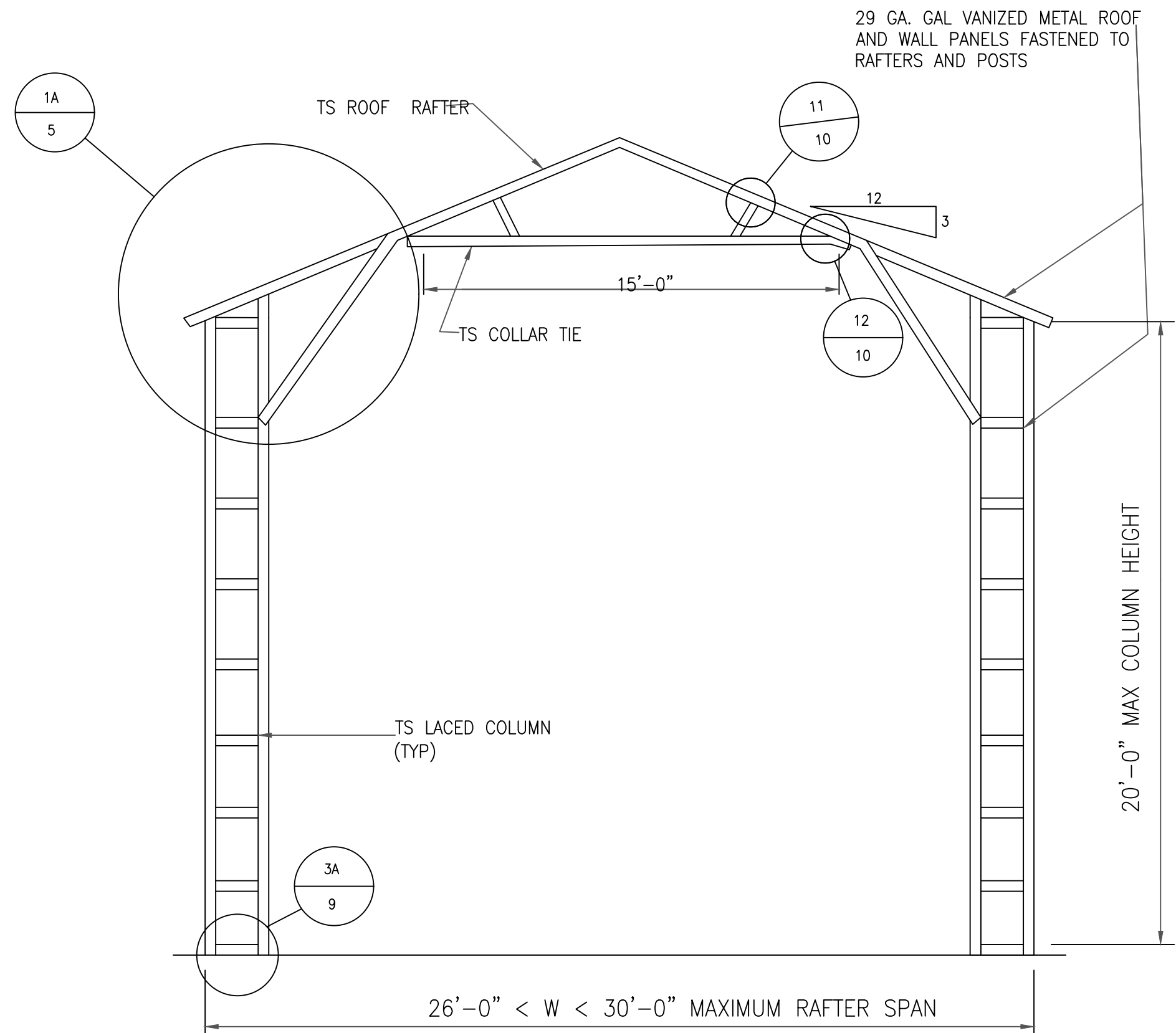
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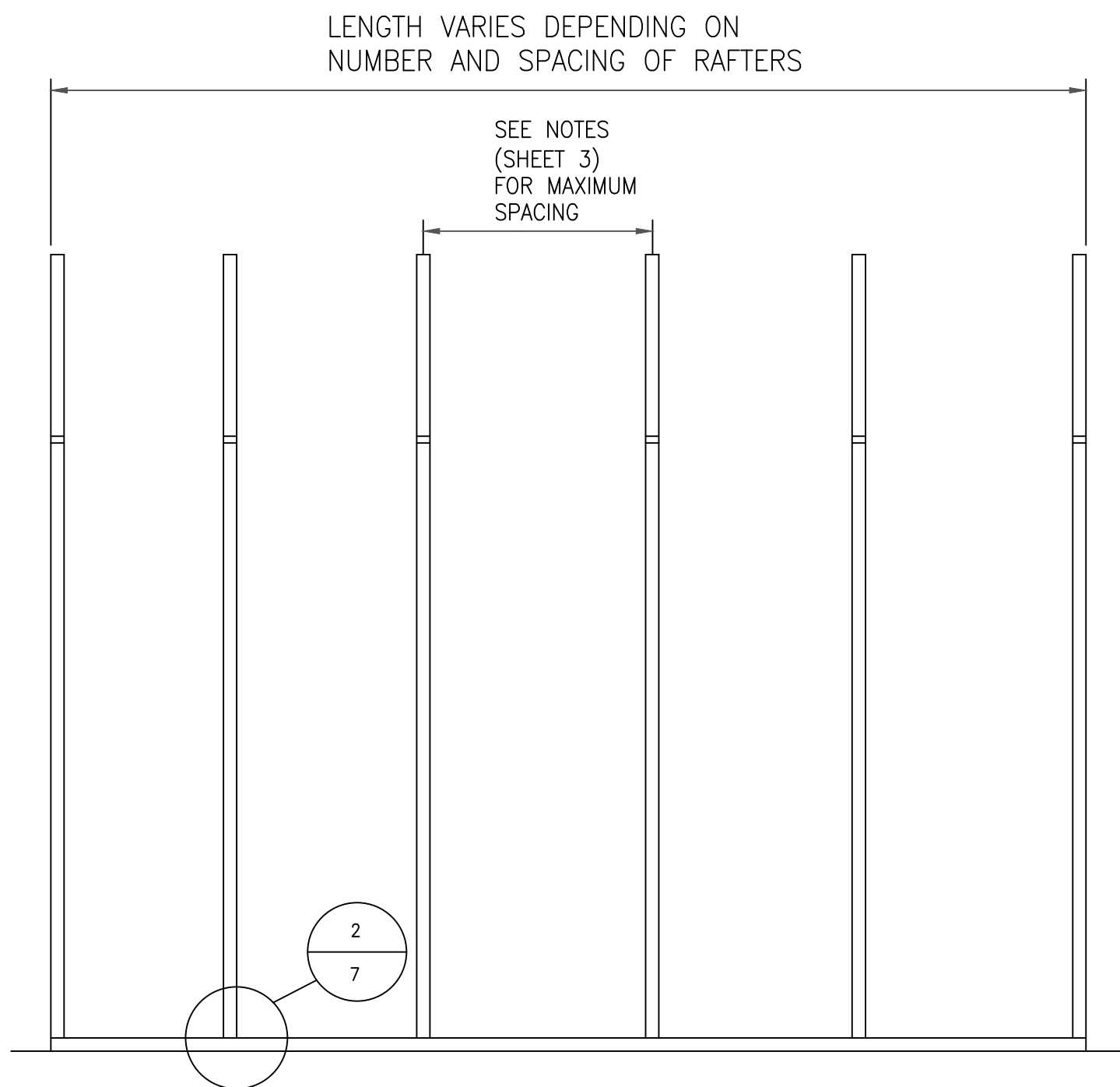




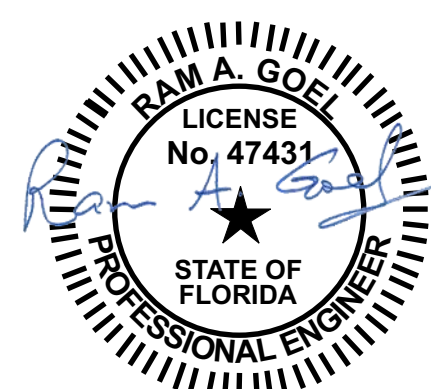
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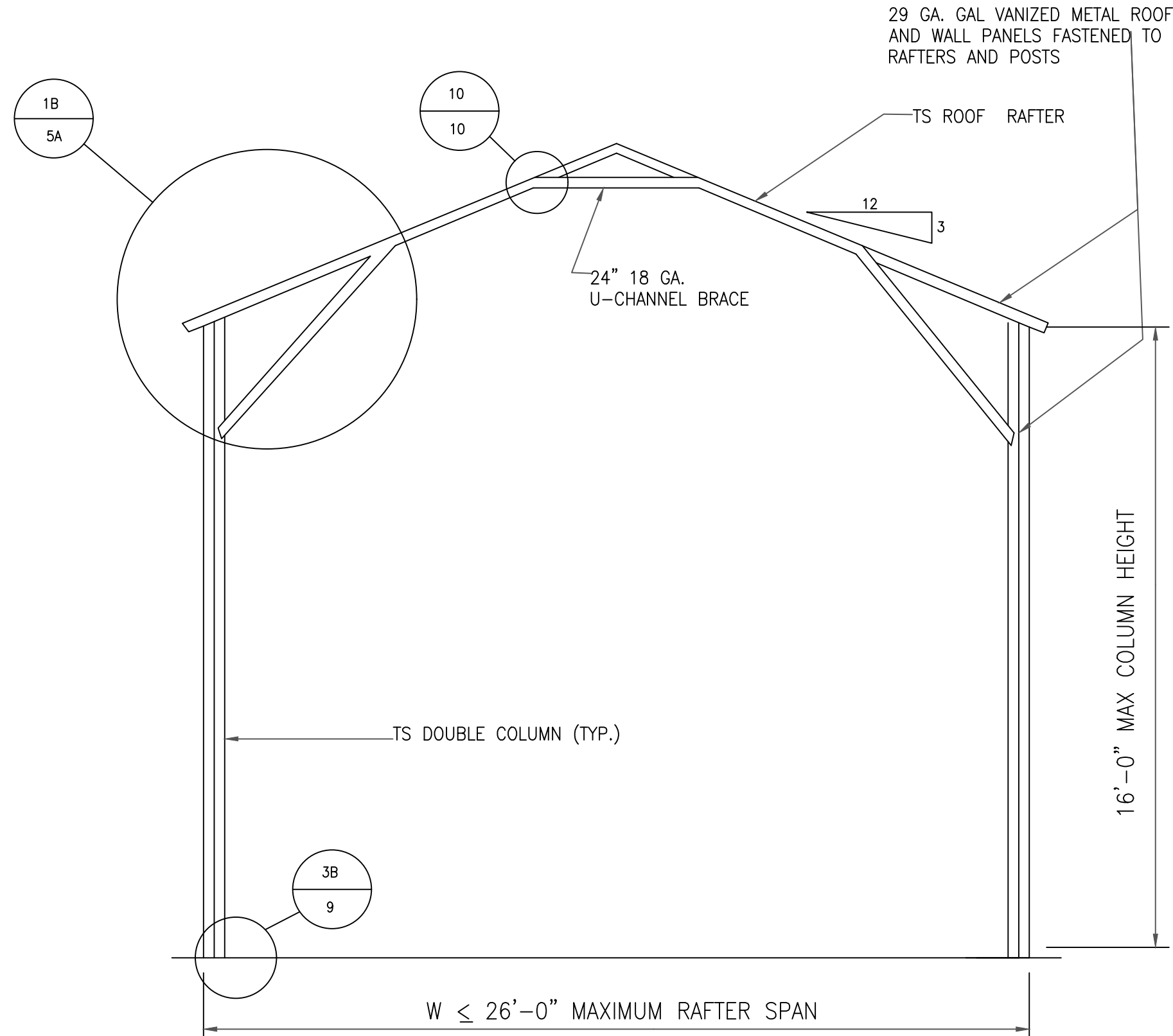
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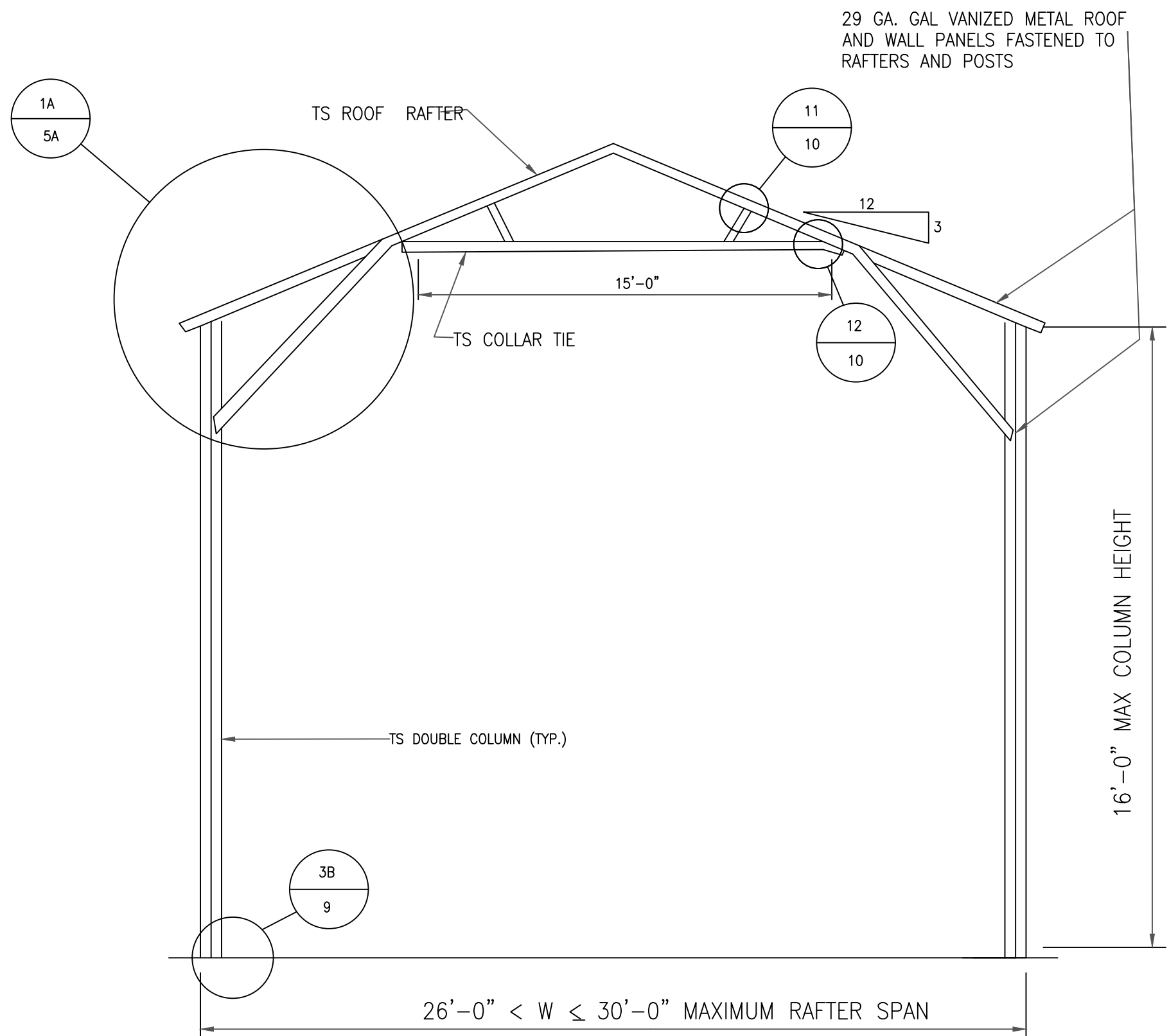
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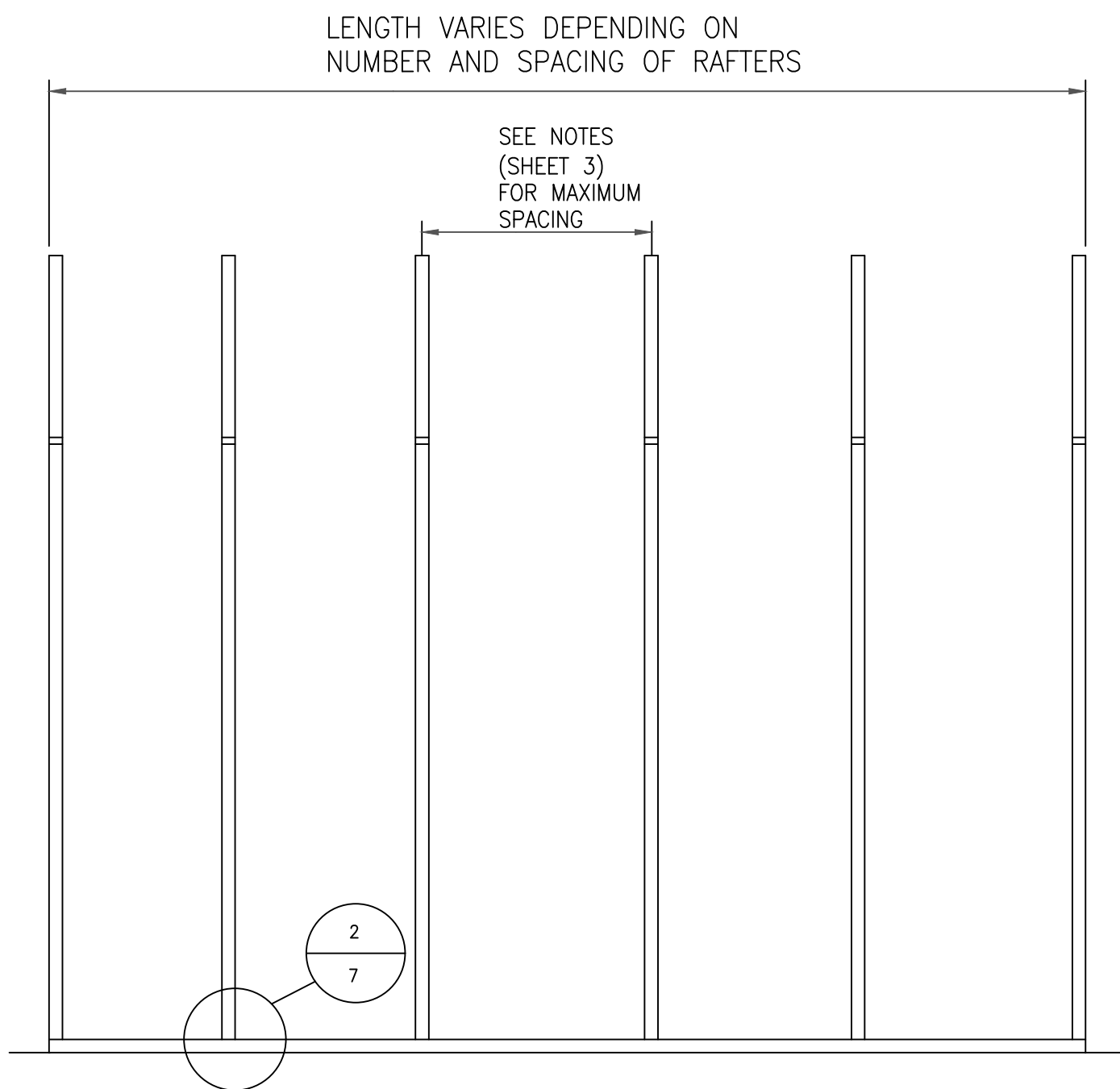




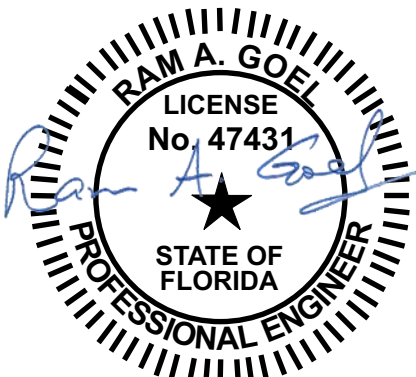
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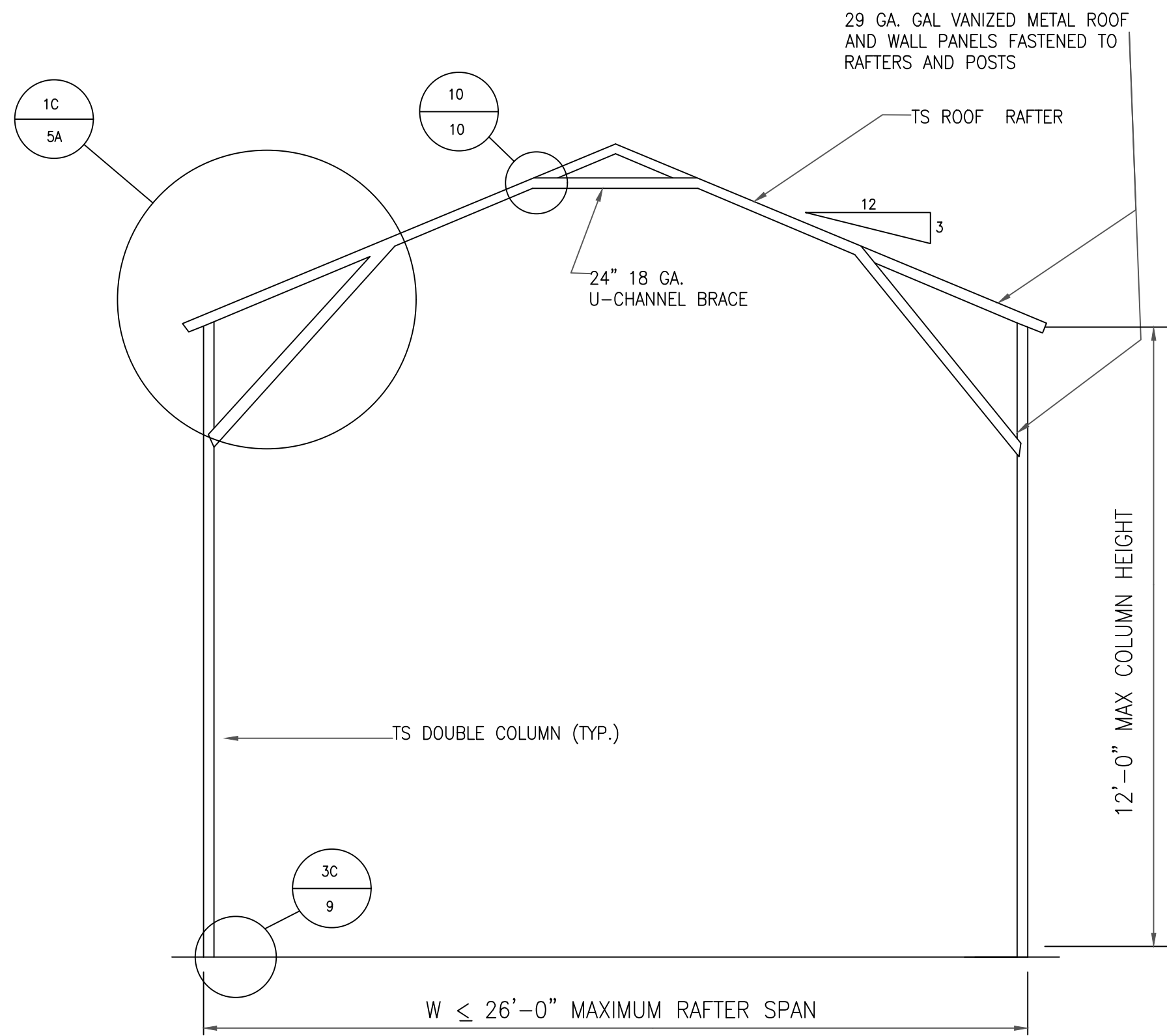
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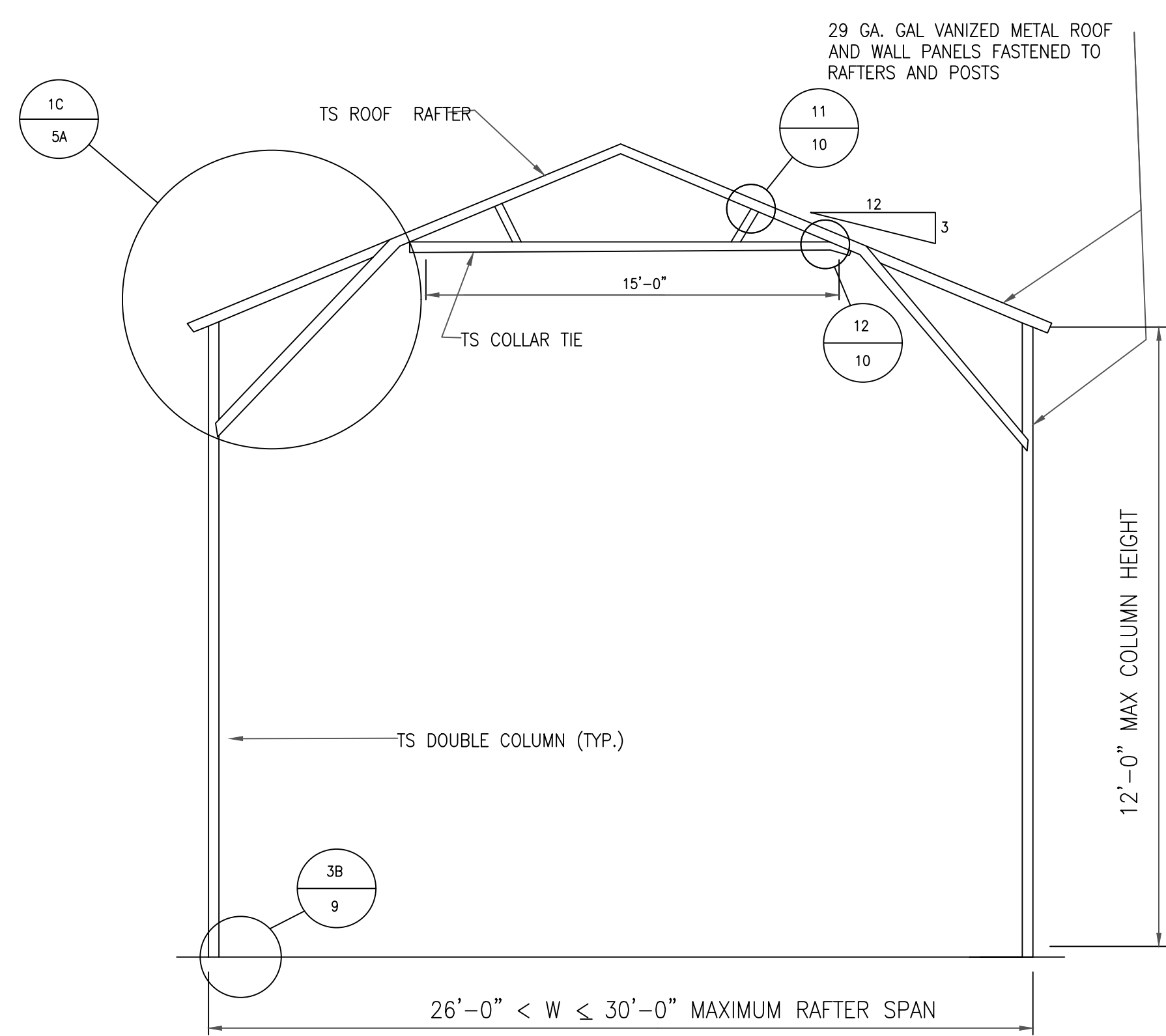
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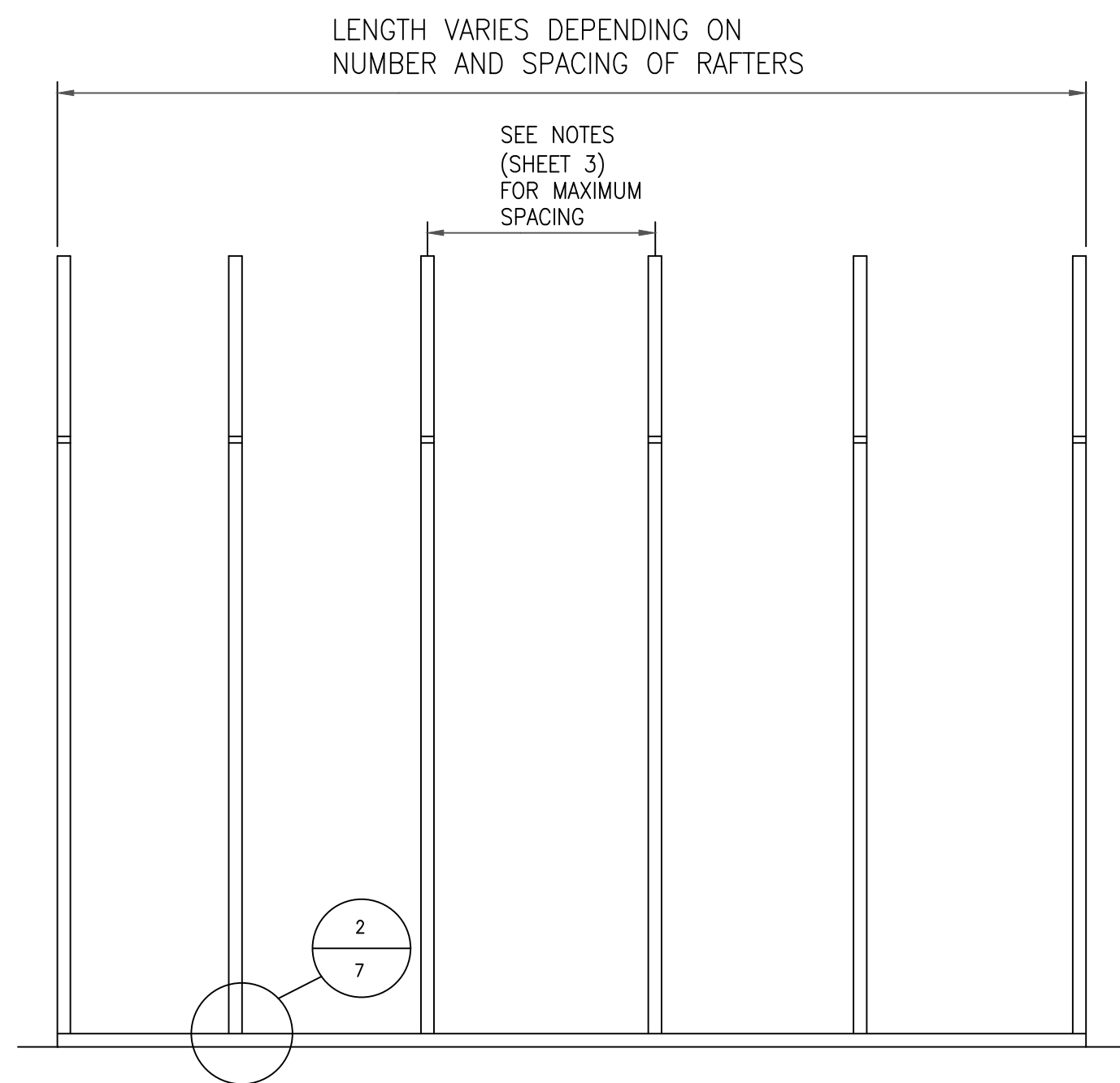
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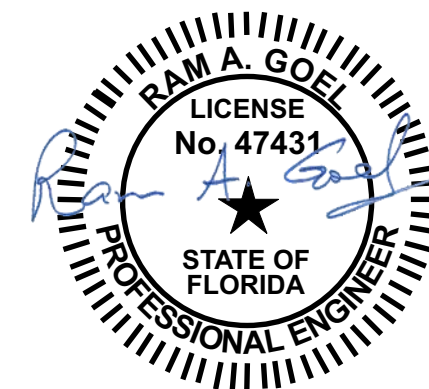
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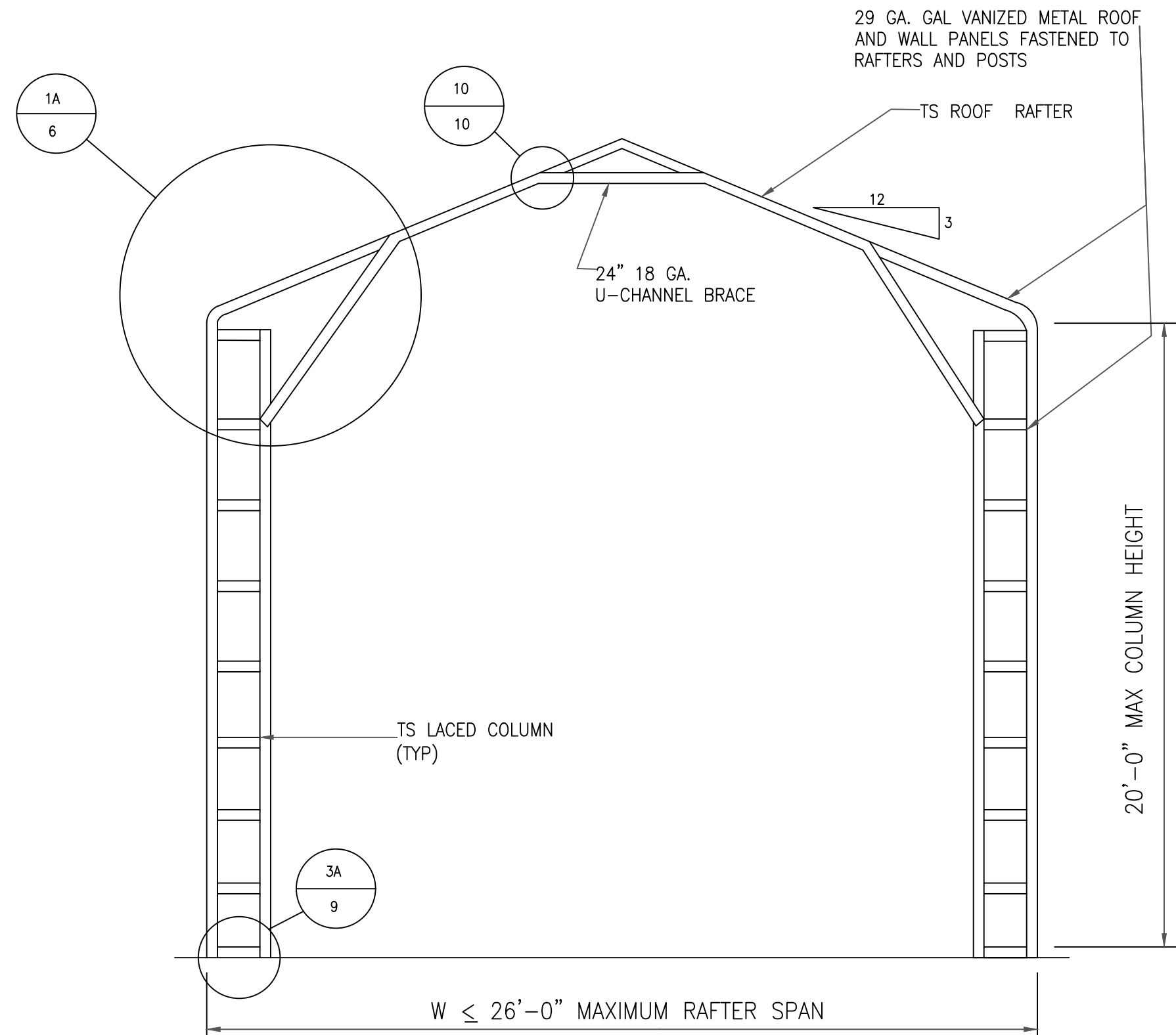


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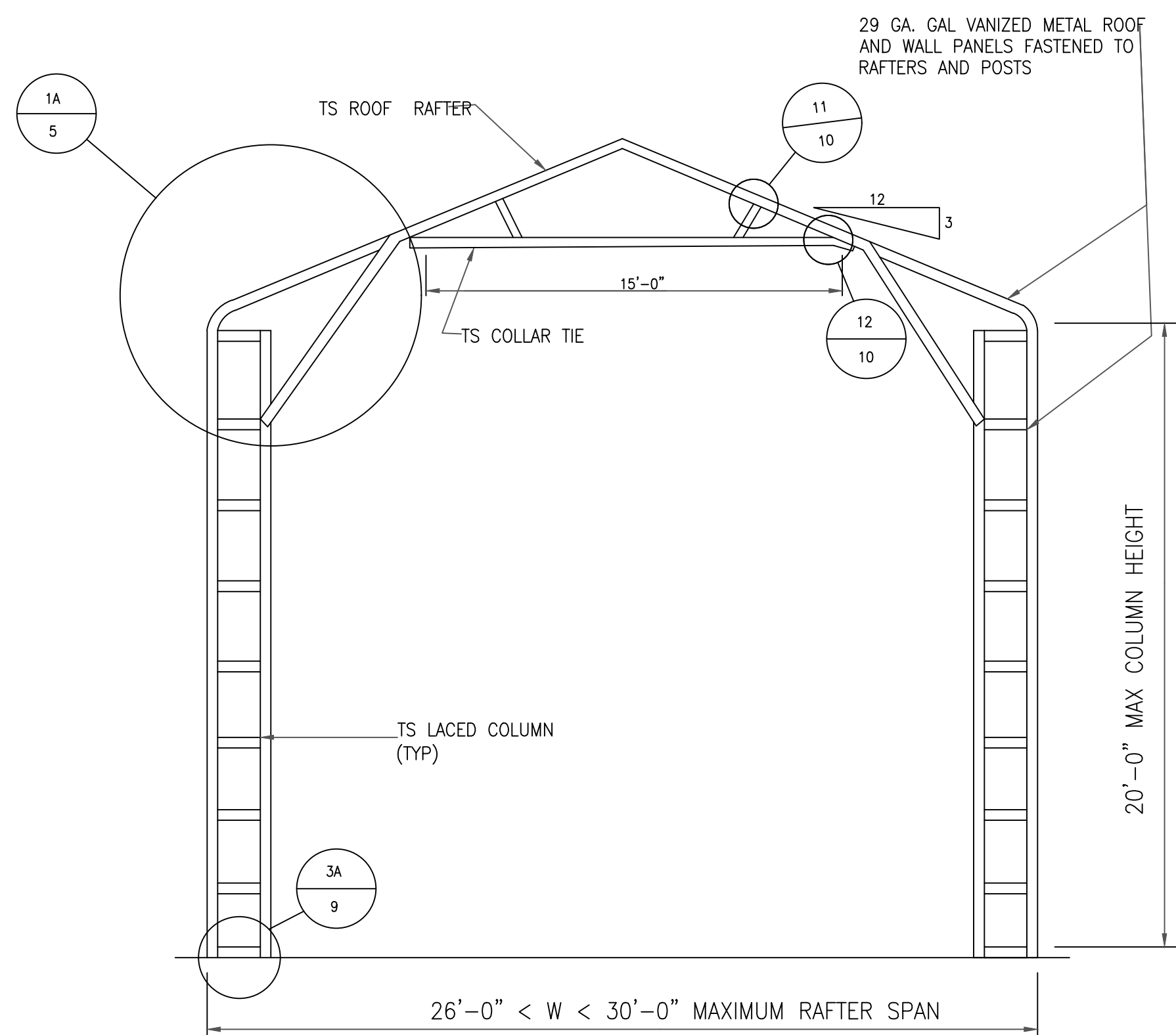
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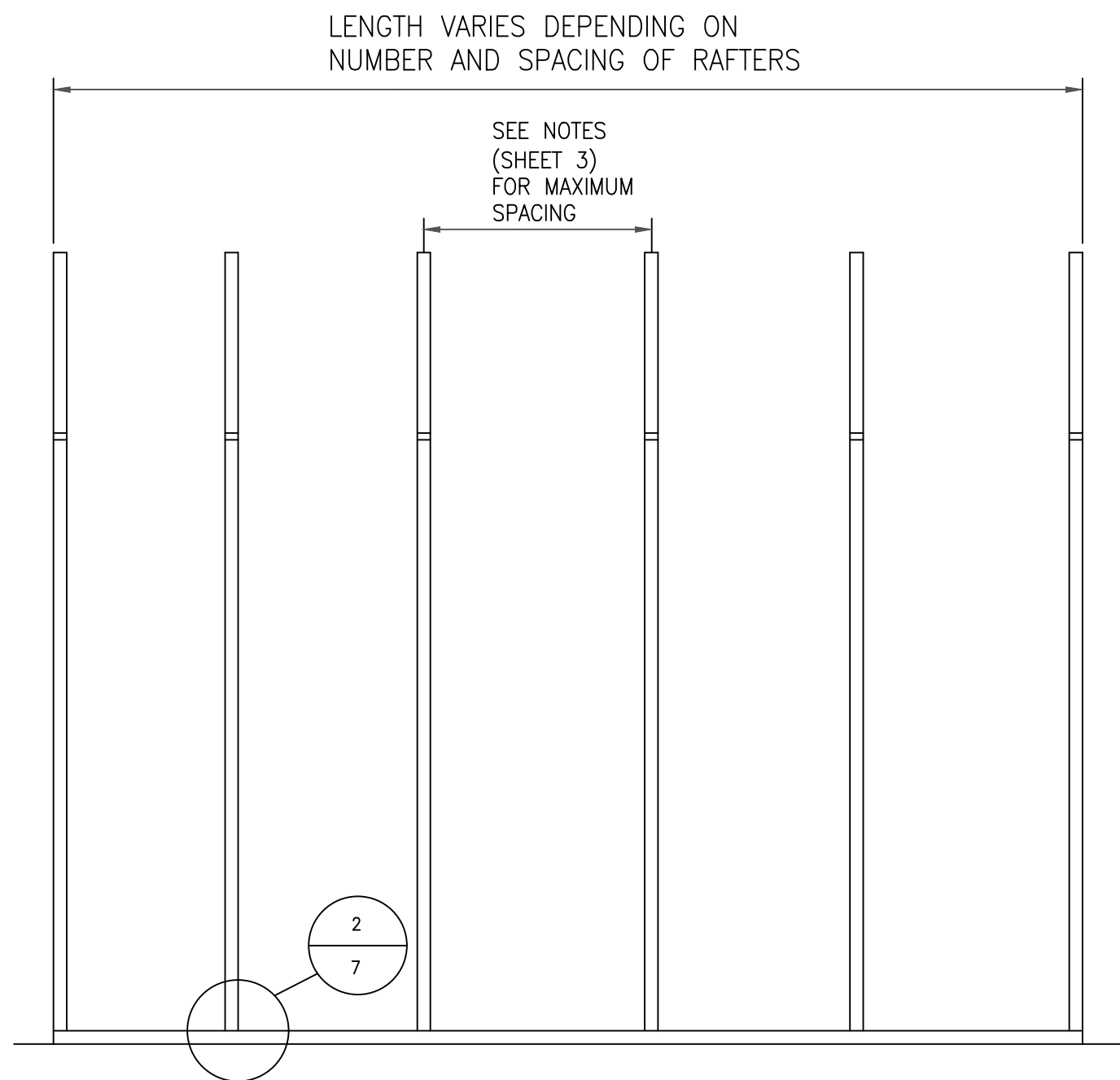




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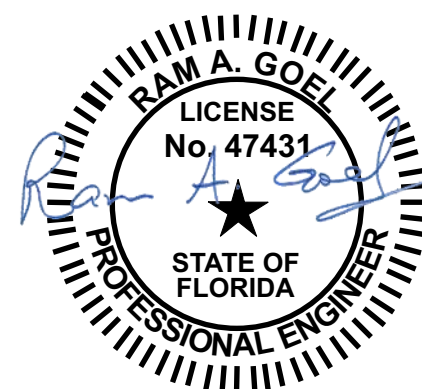


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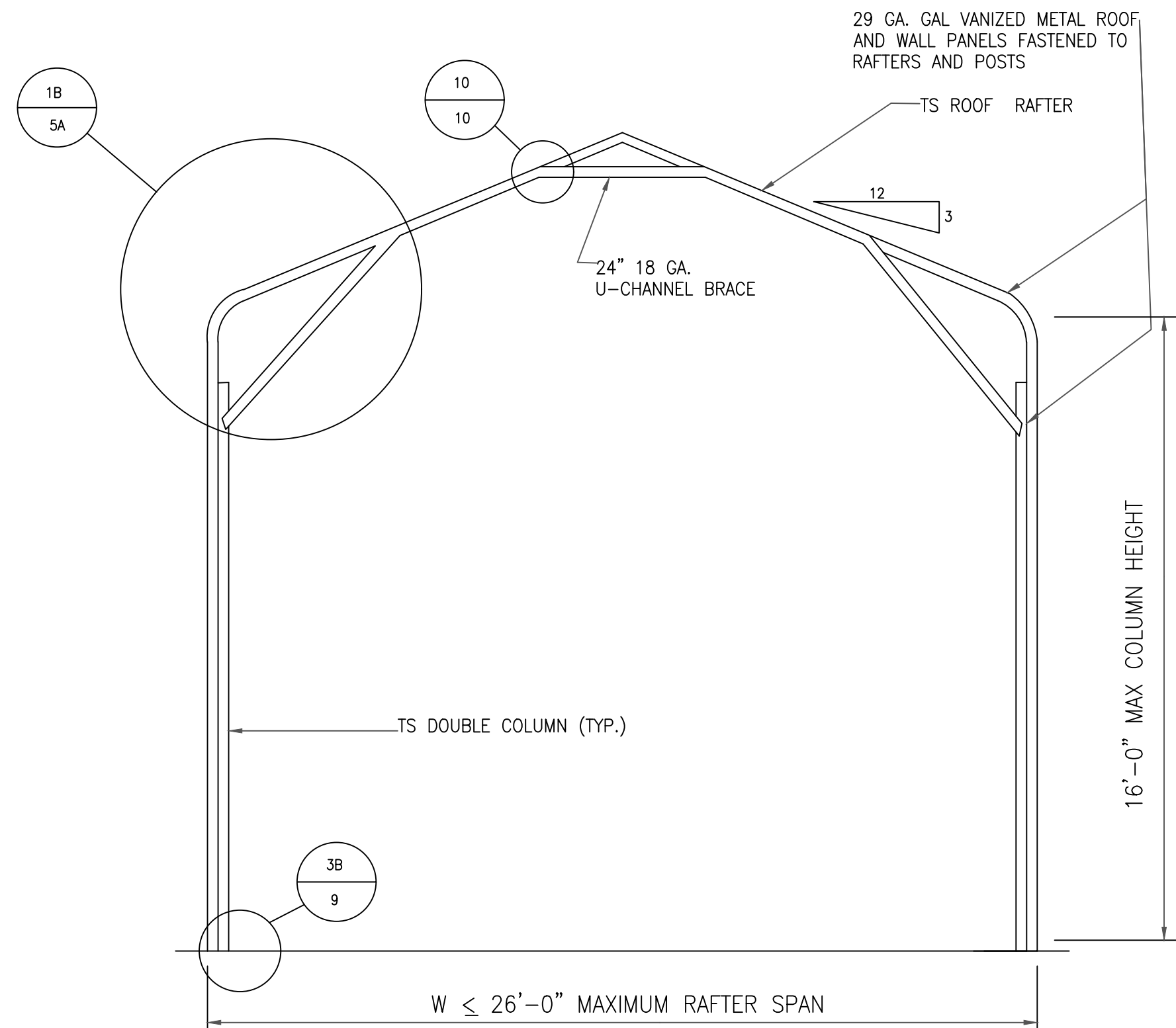


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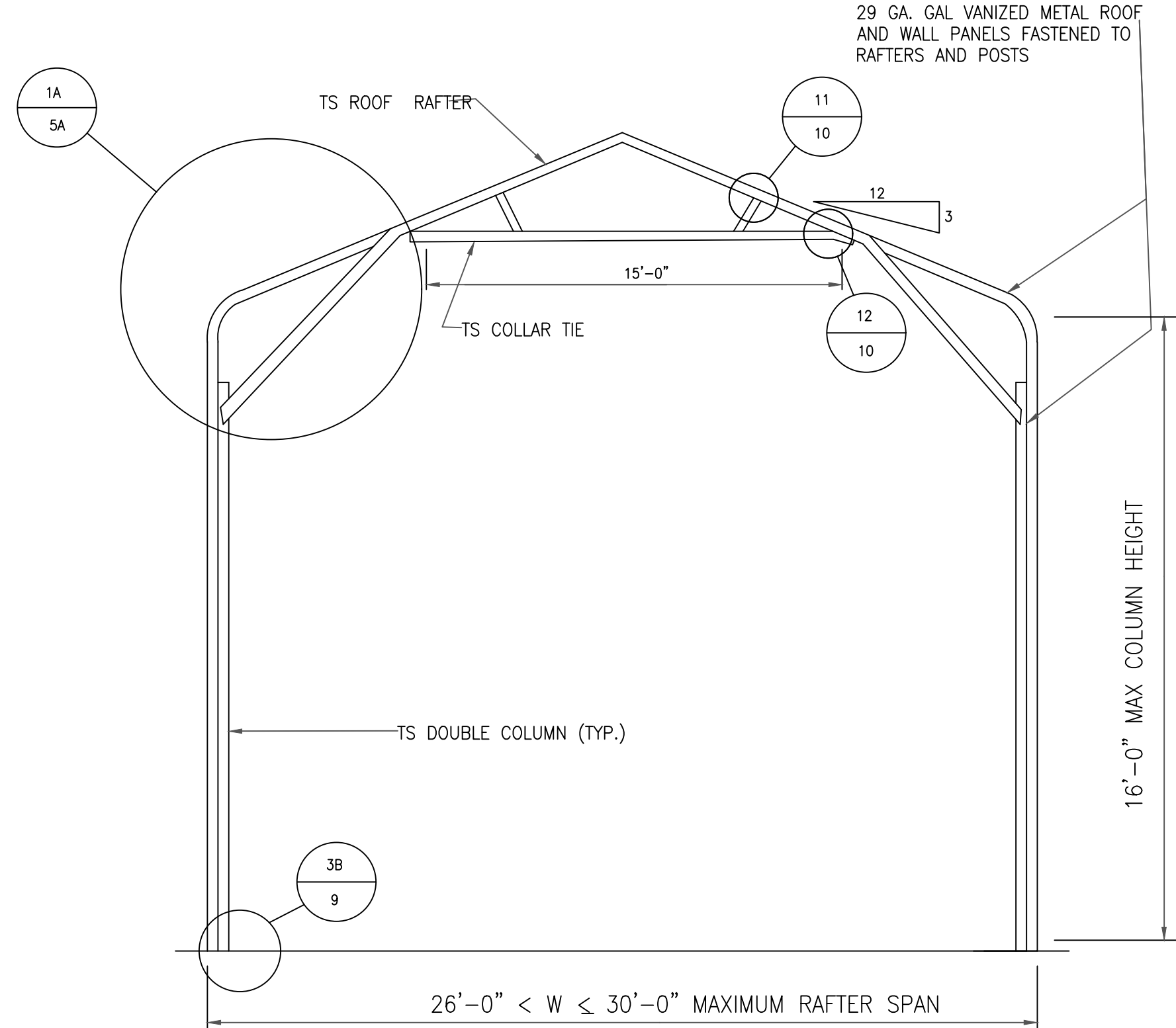
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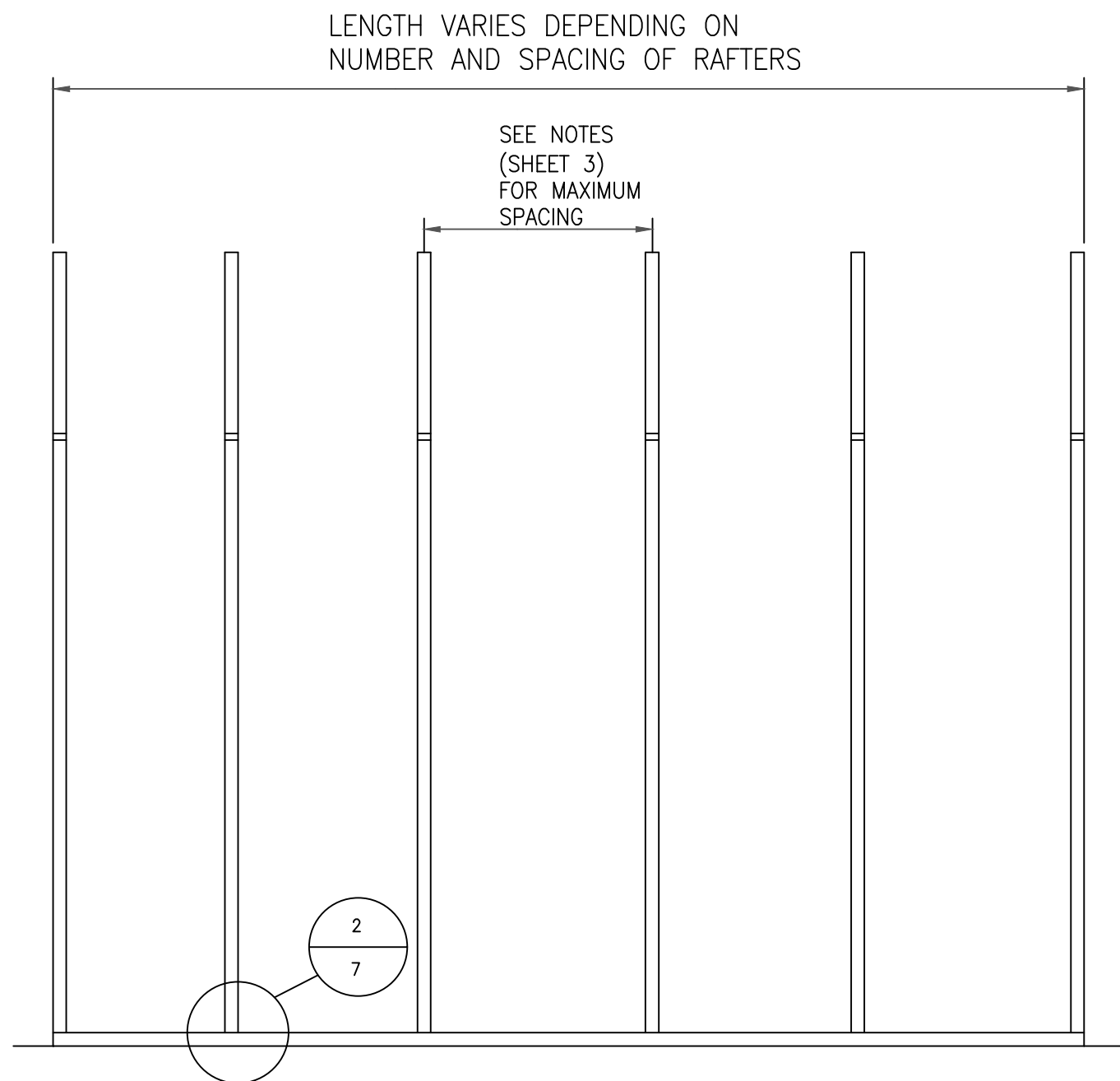




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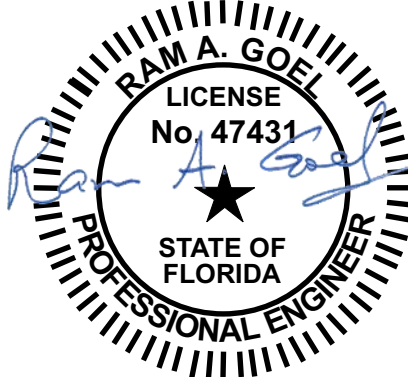


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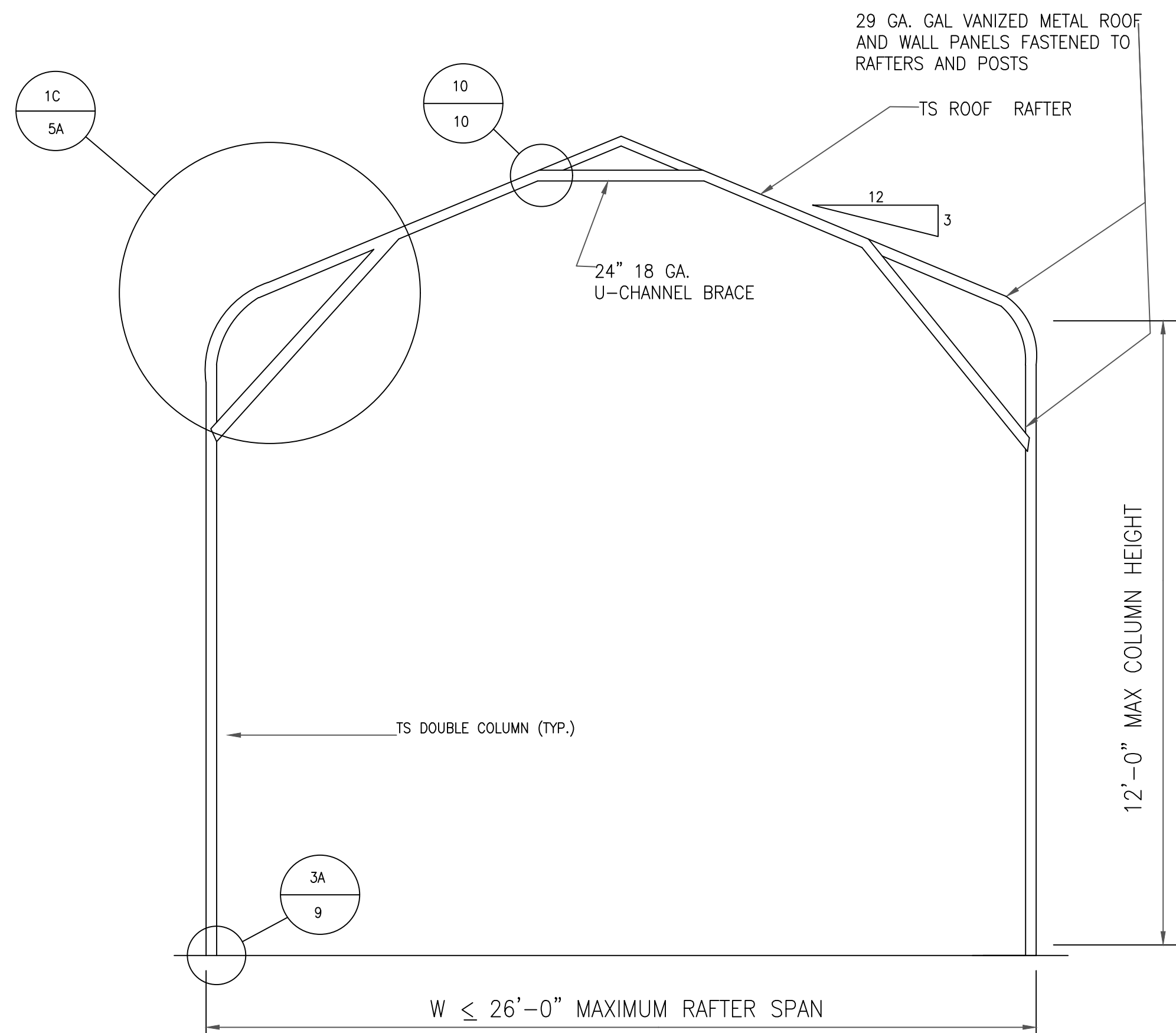
Job # S2080  
Drawn By: K.D.  
Checked By: S.G.

Issue Date: 04-10-21		
Revisions:		
No.	Date	Description
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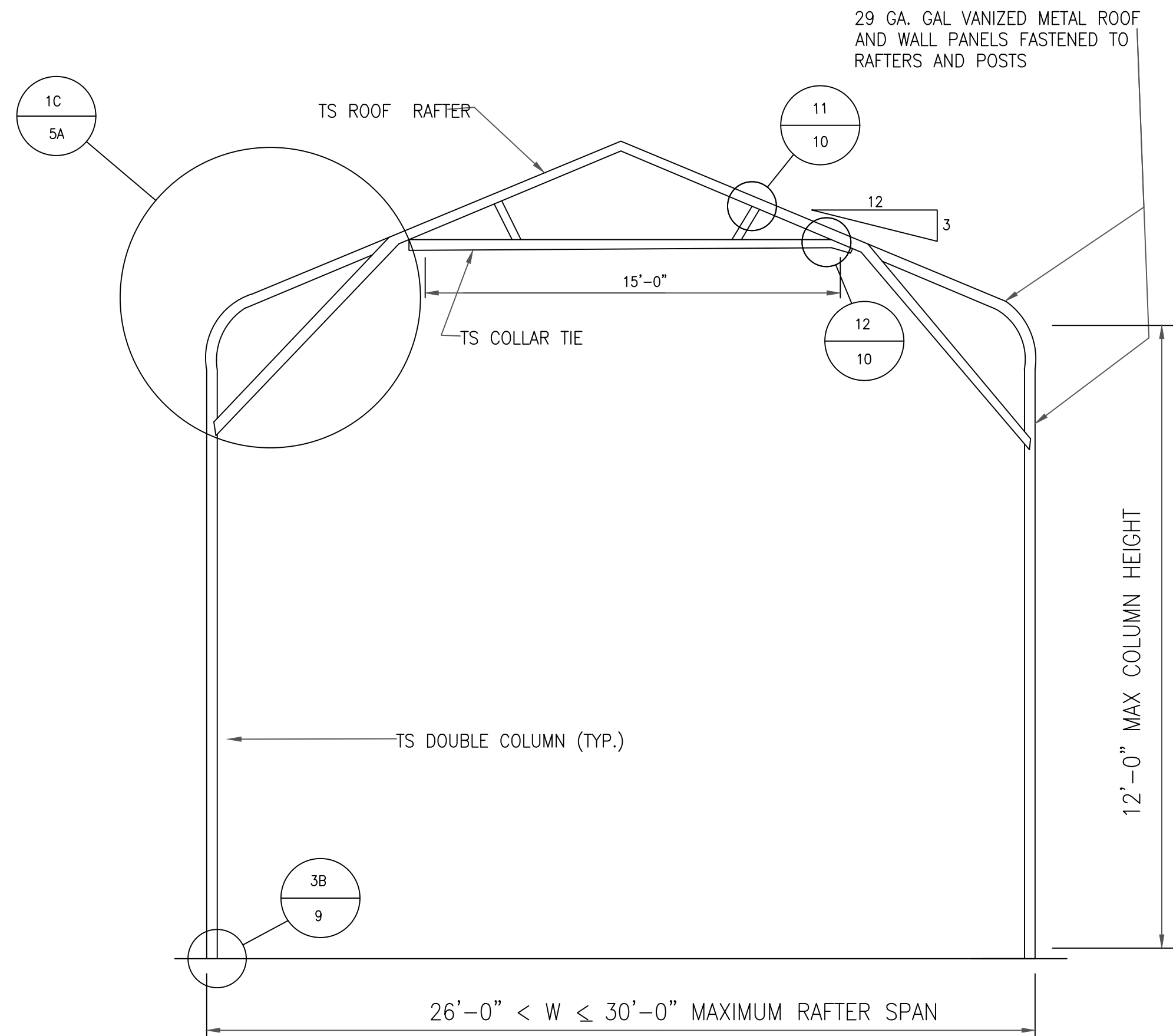
BOX EAVE FRAME RAFTER STRUCTURE

ELITE METAL MANUFACTURING, LLC  
10121 88TH TRACE  
LIVE OAK, FL 32060

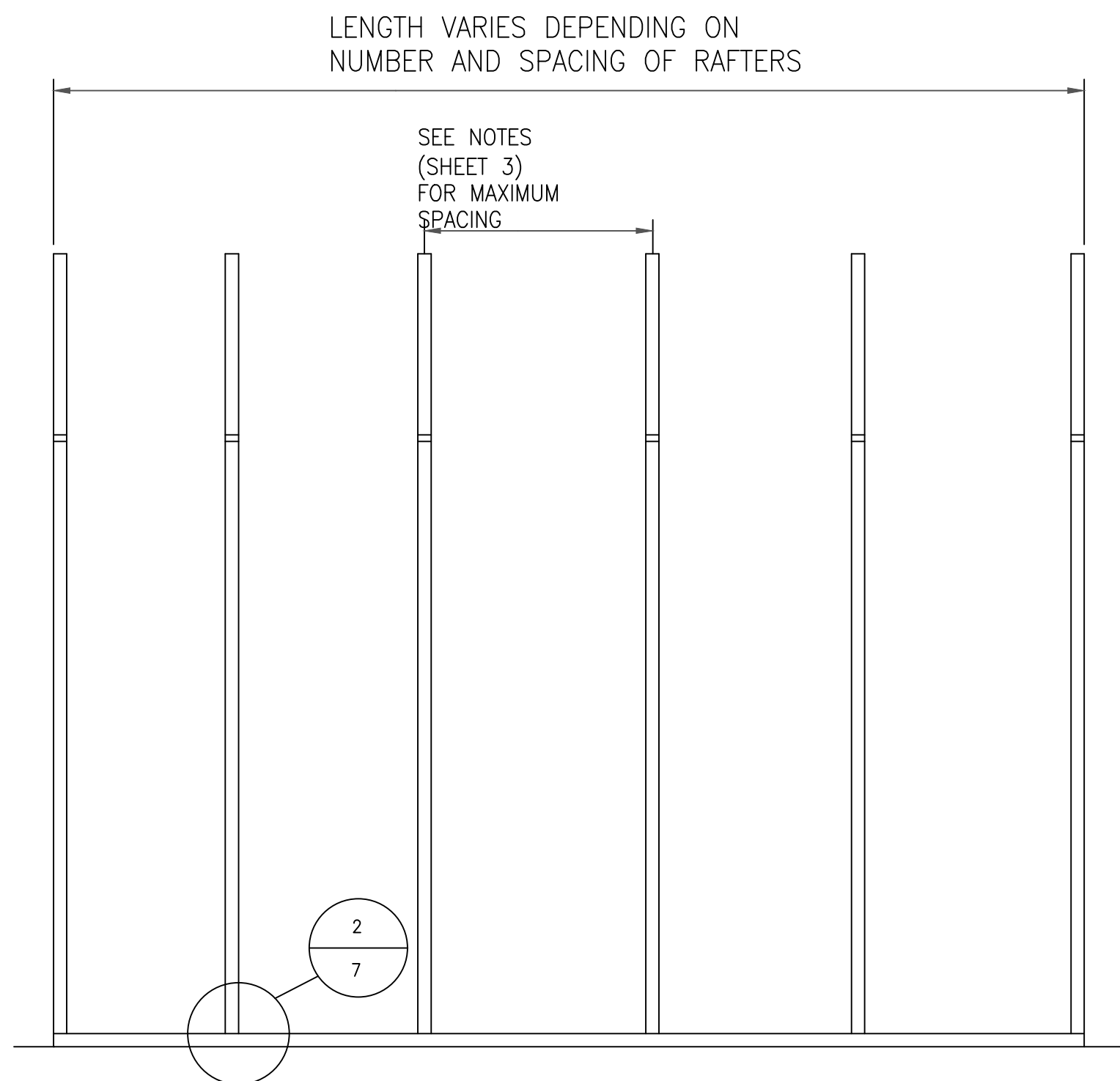




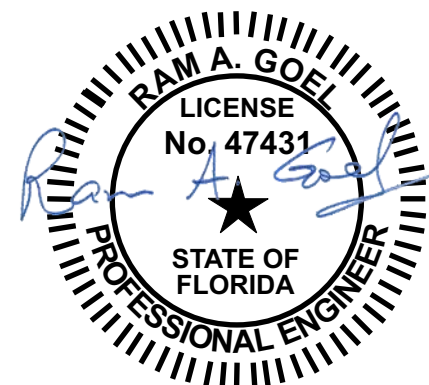
TYPICAL RAFTER/COLUMN FRAME SECTION  
SCALE: N.T.S.



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



TYPICAL RAFTER/COLUMN FRAME SECTION  
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BOX EAVE FRAME RAFTER STRUCTURE

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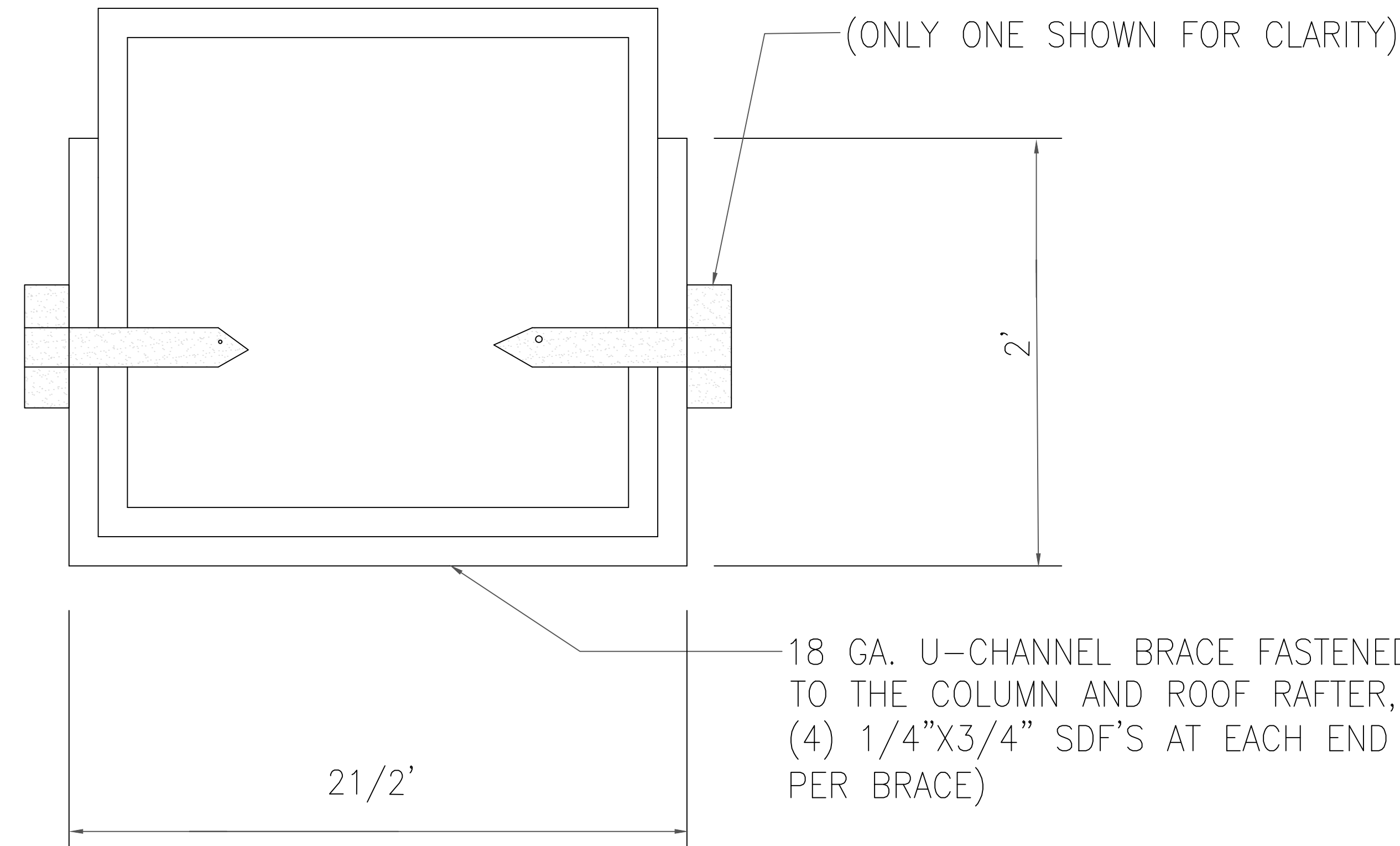
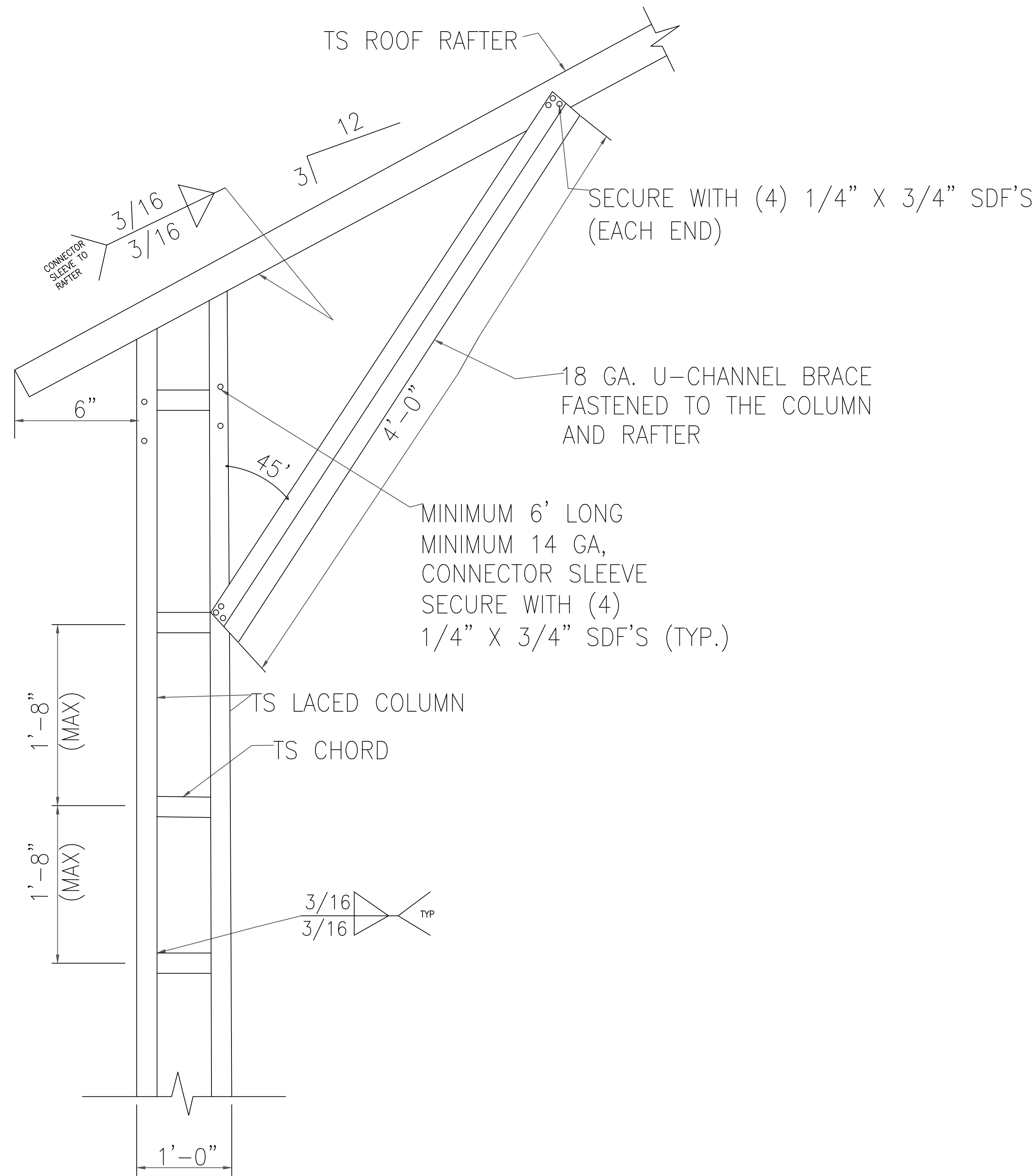
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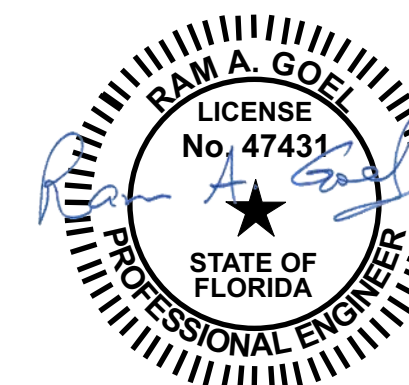


BRACE SECTION  
SCALE: N.T.S.

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

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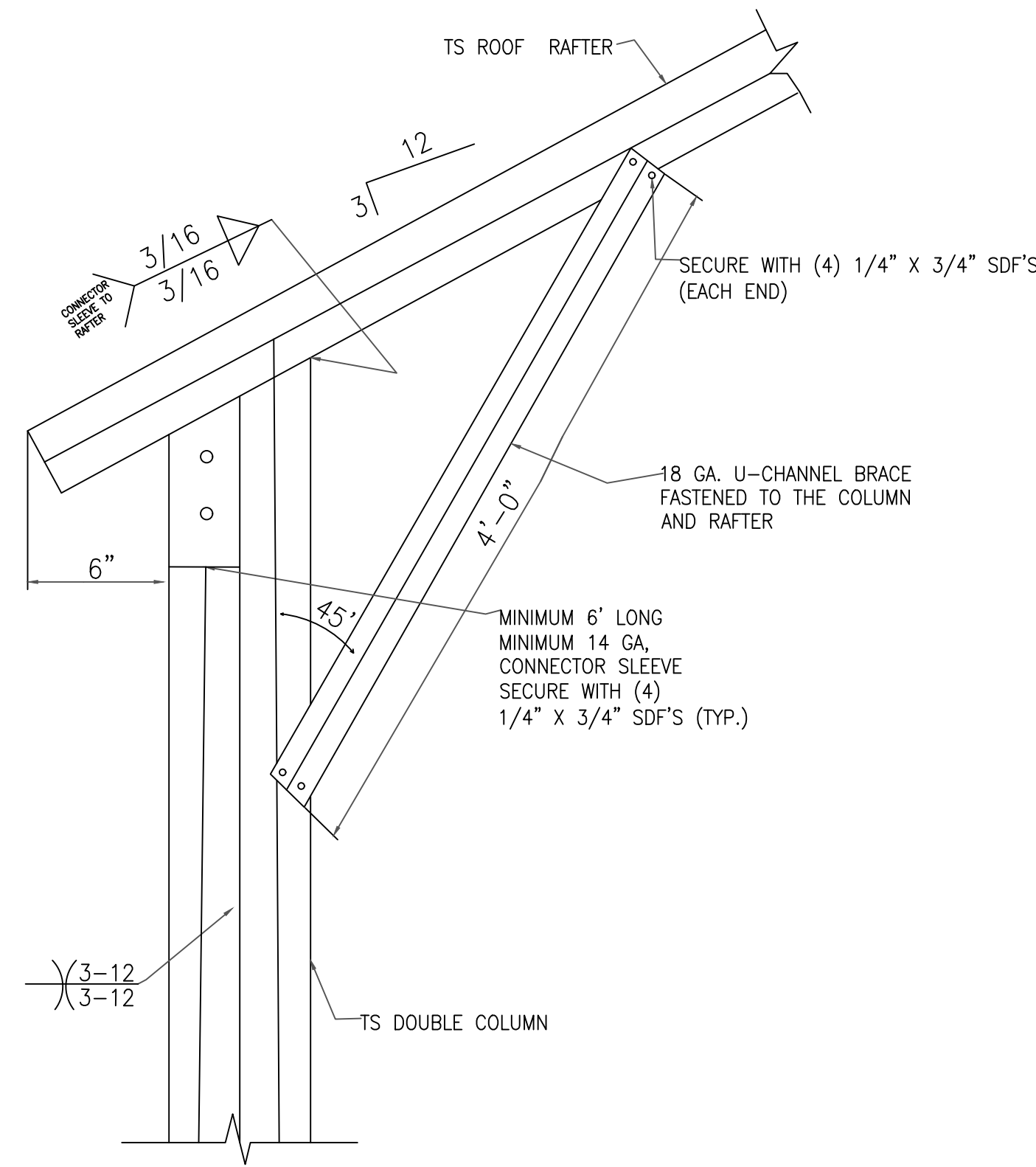


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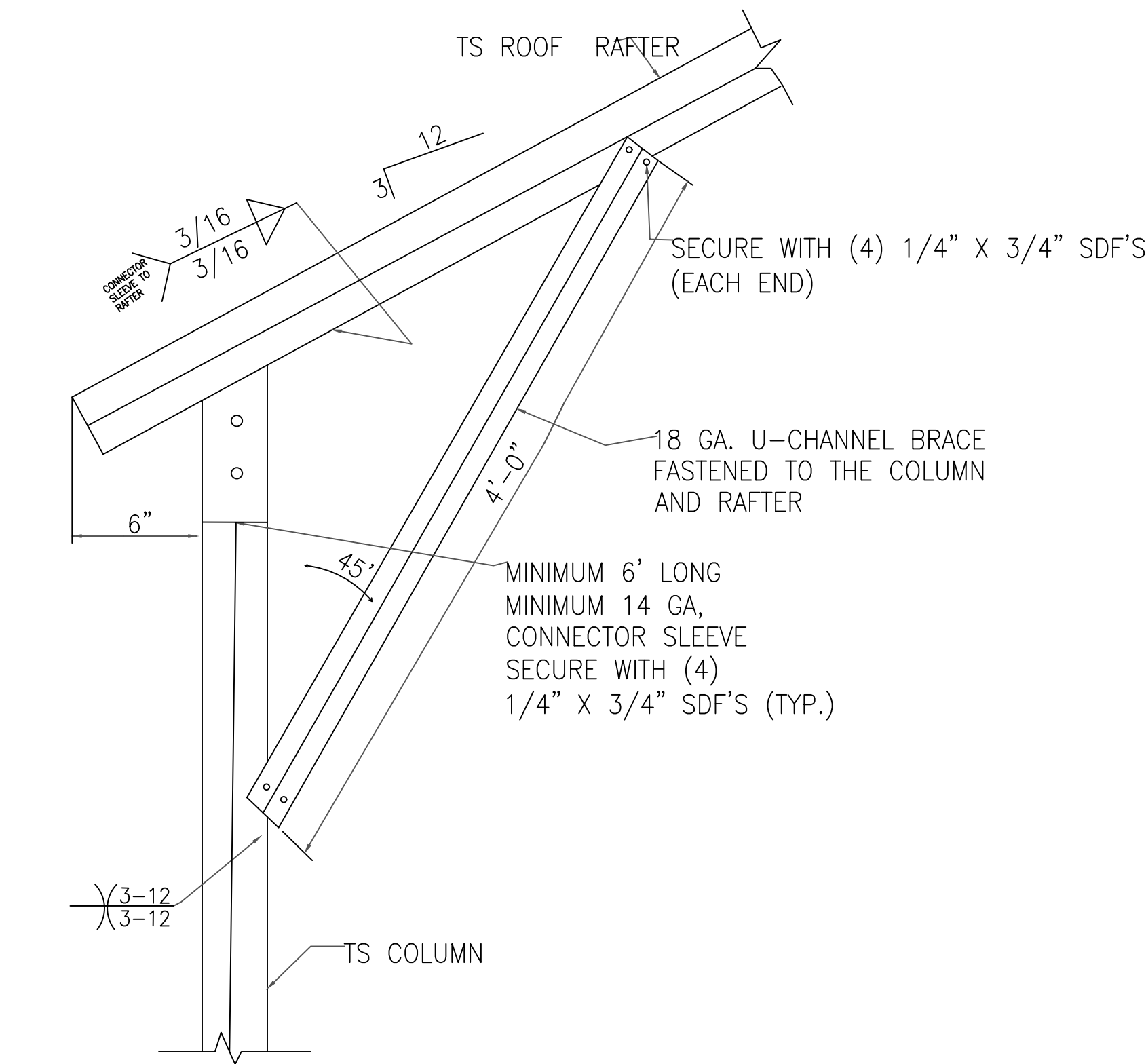
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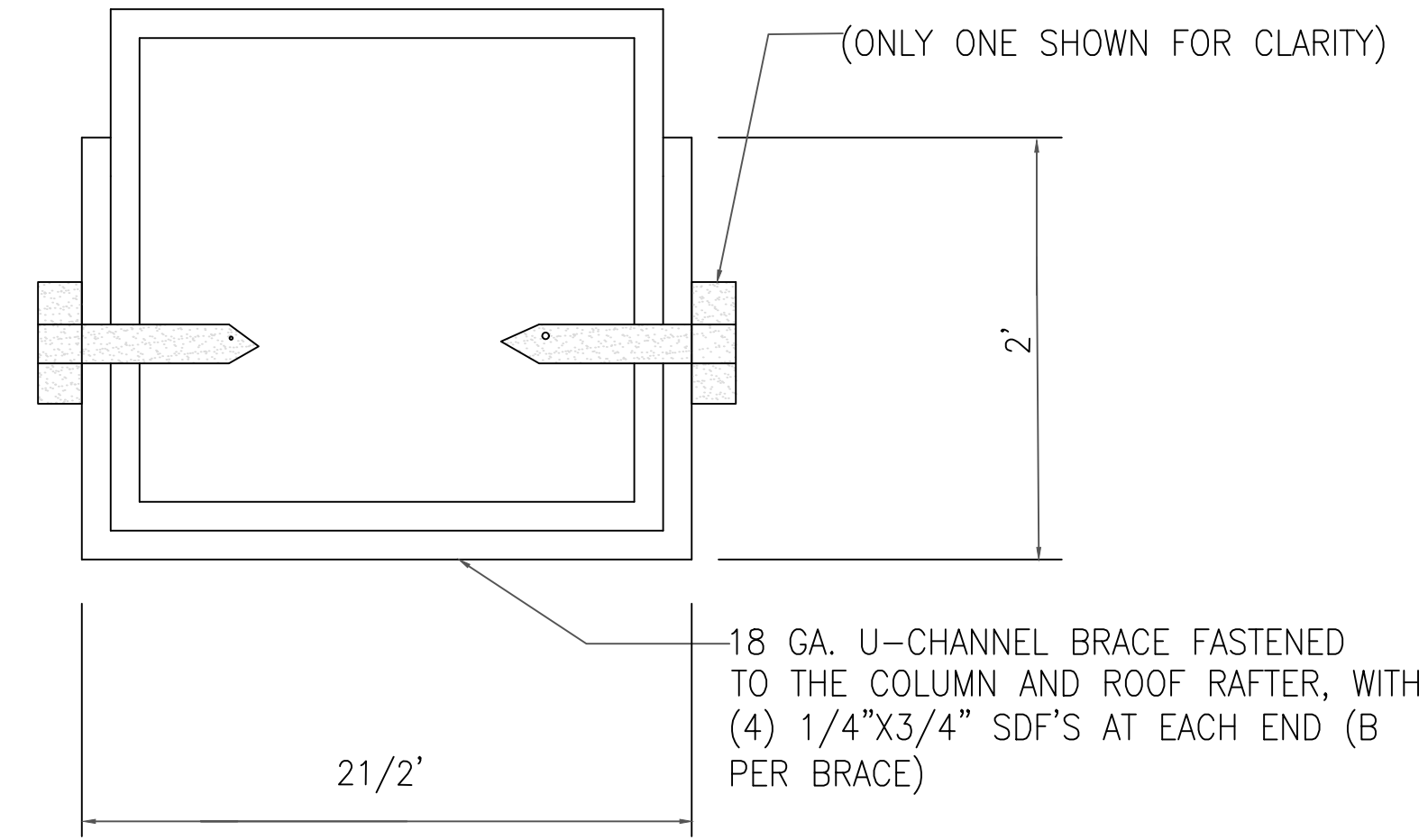




BOX EAVE RAFTER/CORNER POST  
CONNECTION DETAIL  
FOR HEIGHTS 12'-0" < TO ≤ 16'-0"  
SCALE: NTS



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



BRACE SECTION  
SCALE: N.T.S.

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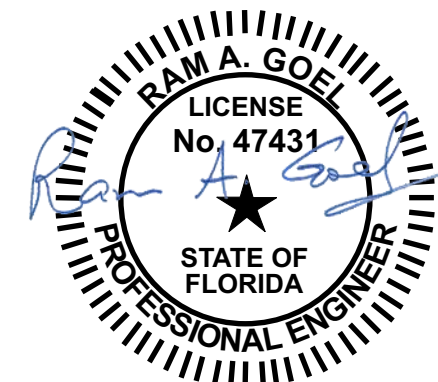
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BOX EAVE FRAME RAFTER STRUCTURE

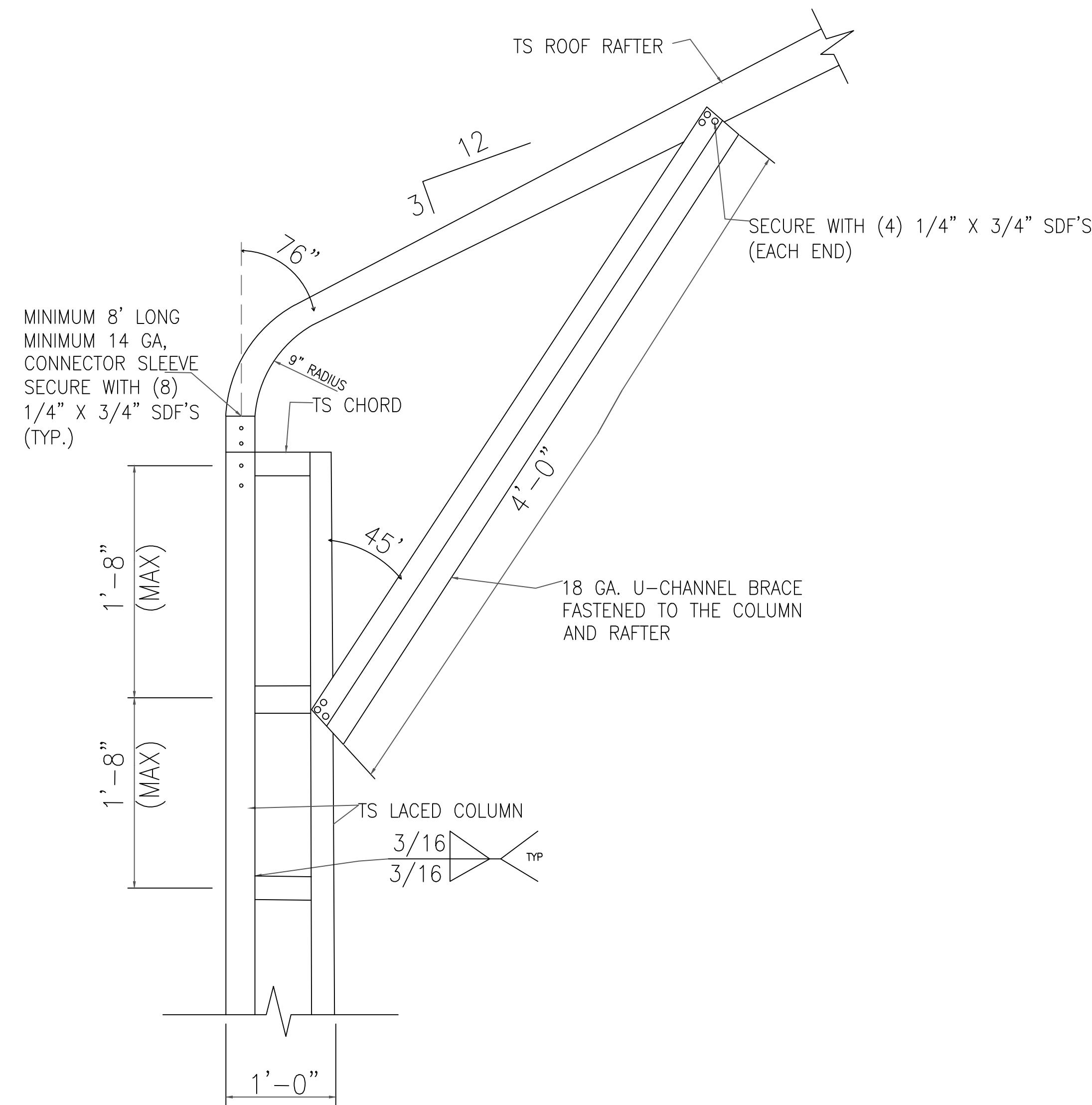
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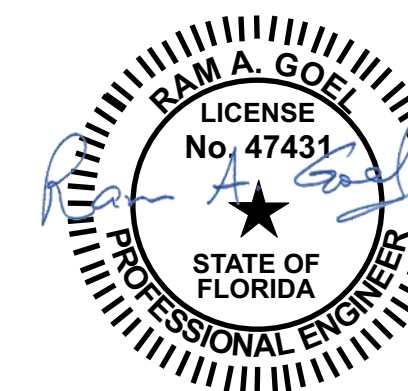
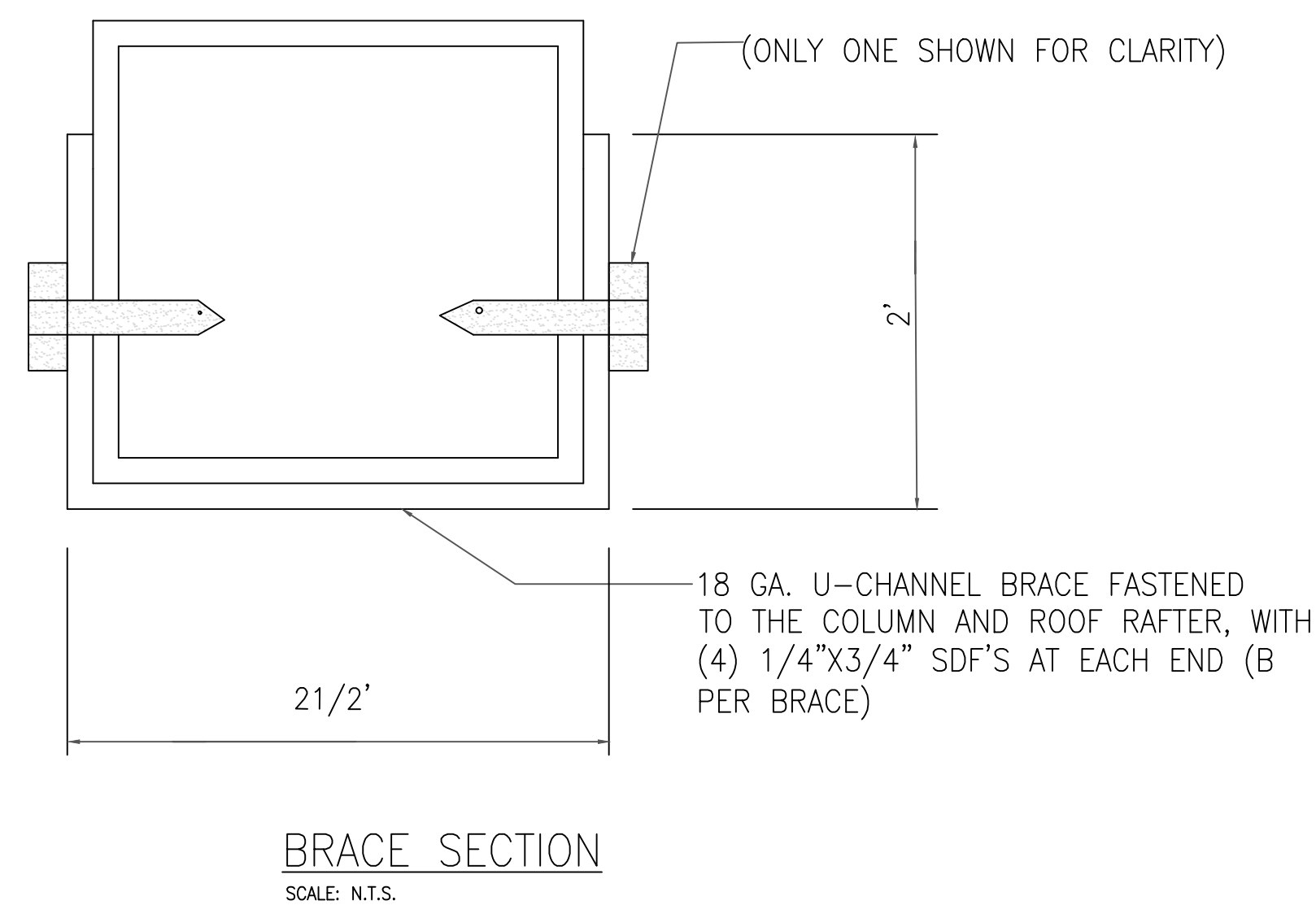


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1A BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL  
FOR HEIGHTS 16'-0" < TO ≤ 20'-0"  
SCALE: NTS



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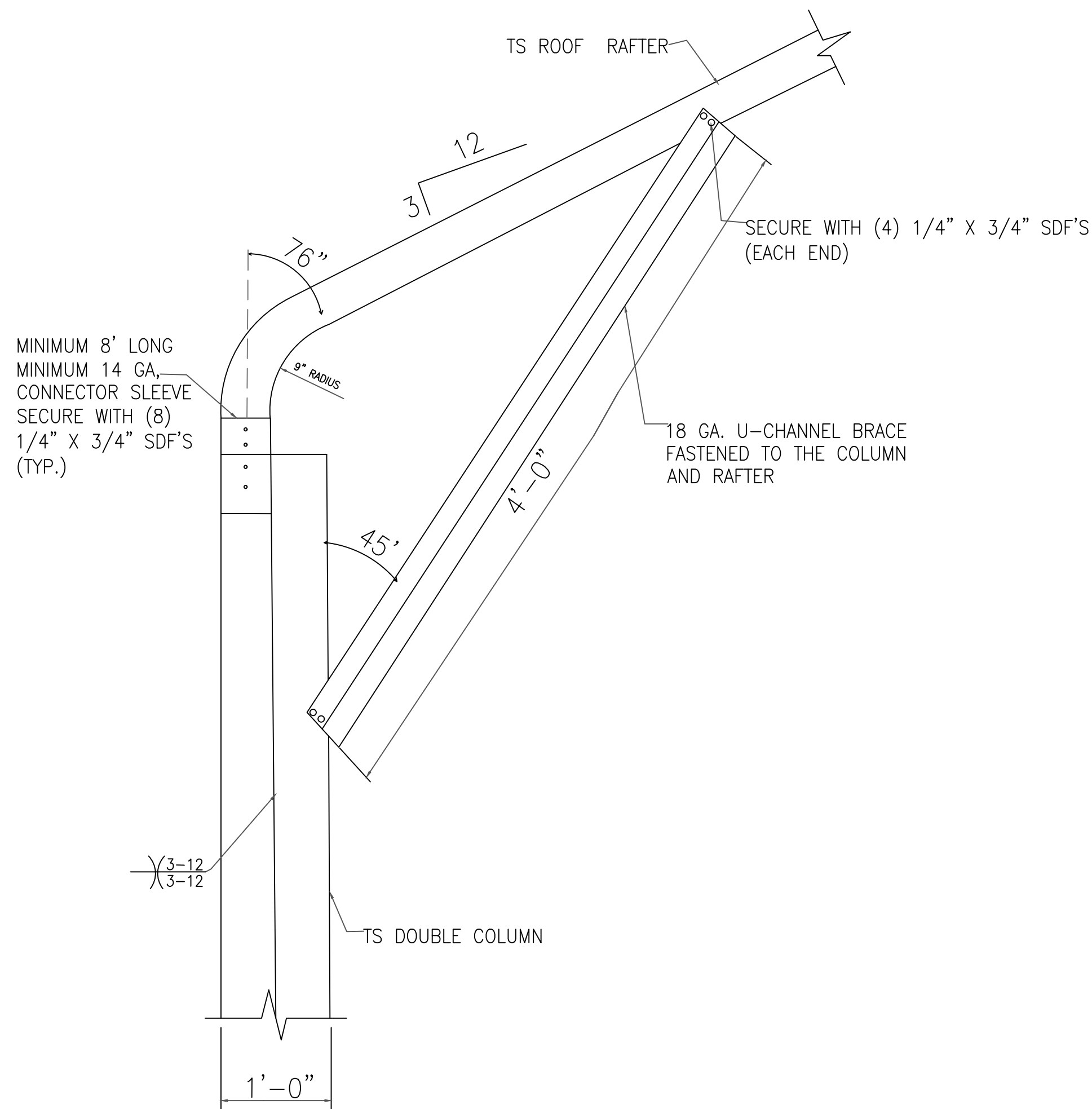
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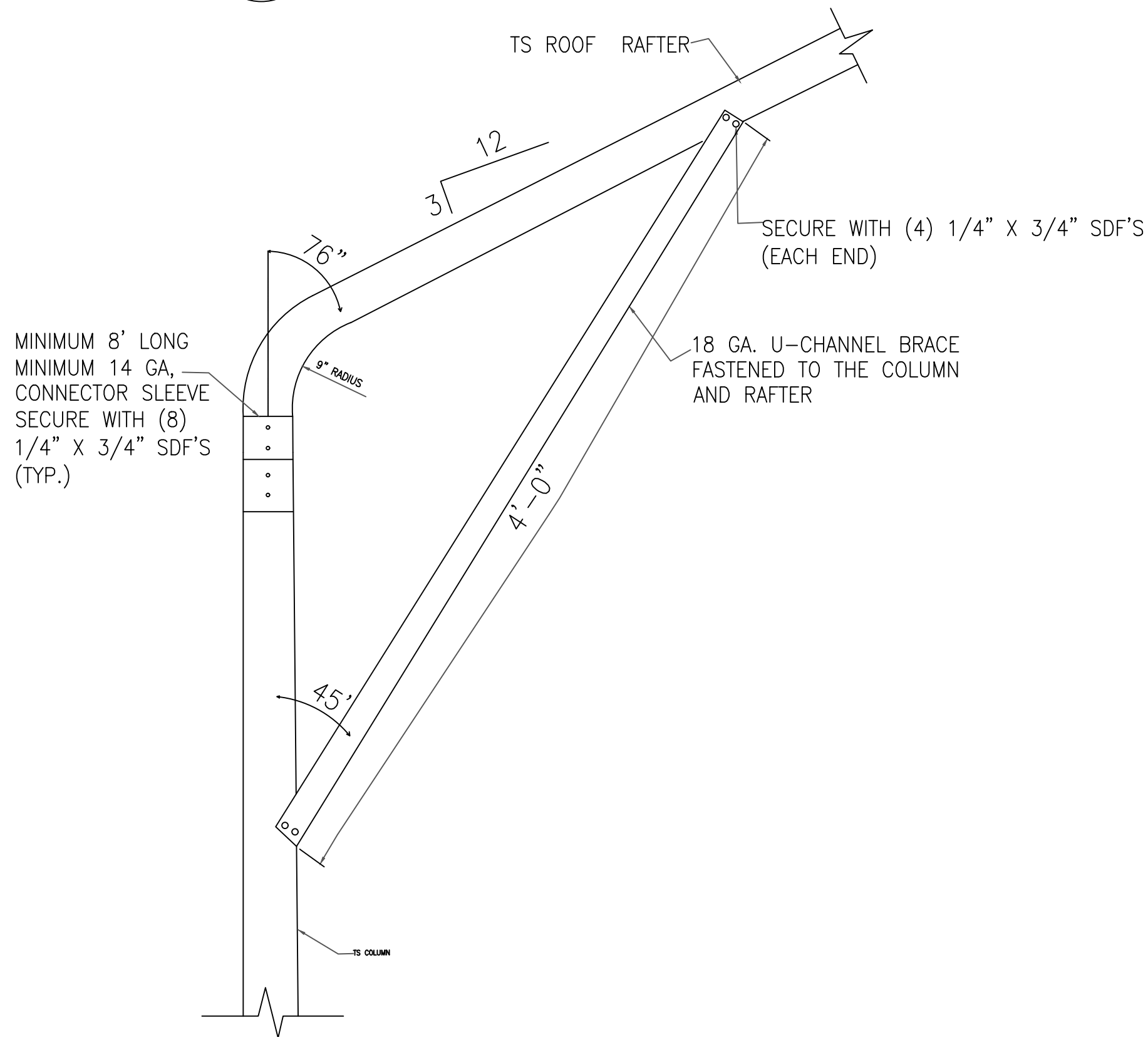
BOX EAVE FRAME RAFTER STRUCTURE

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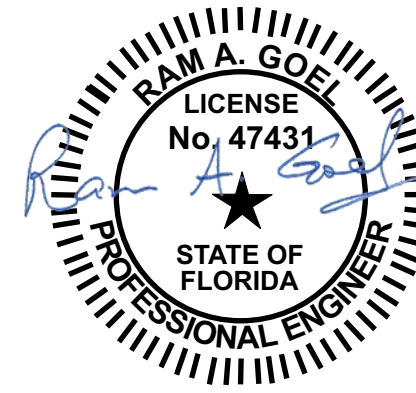
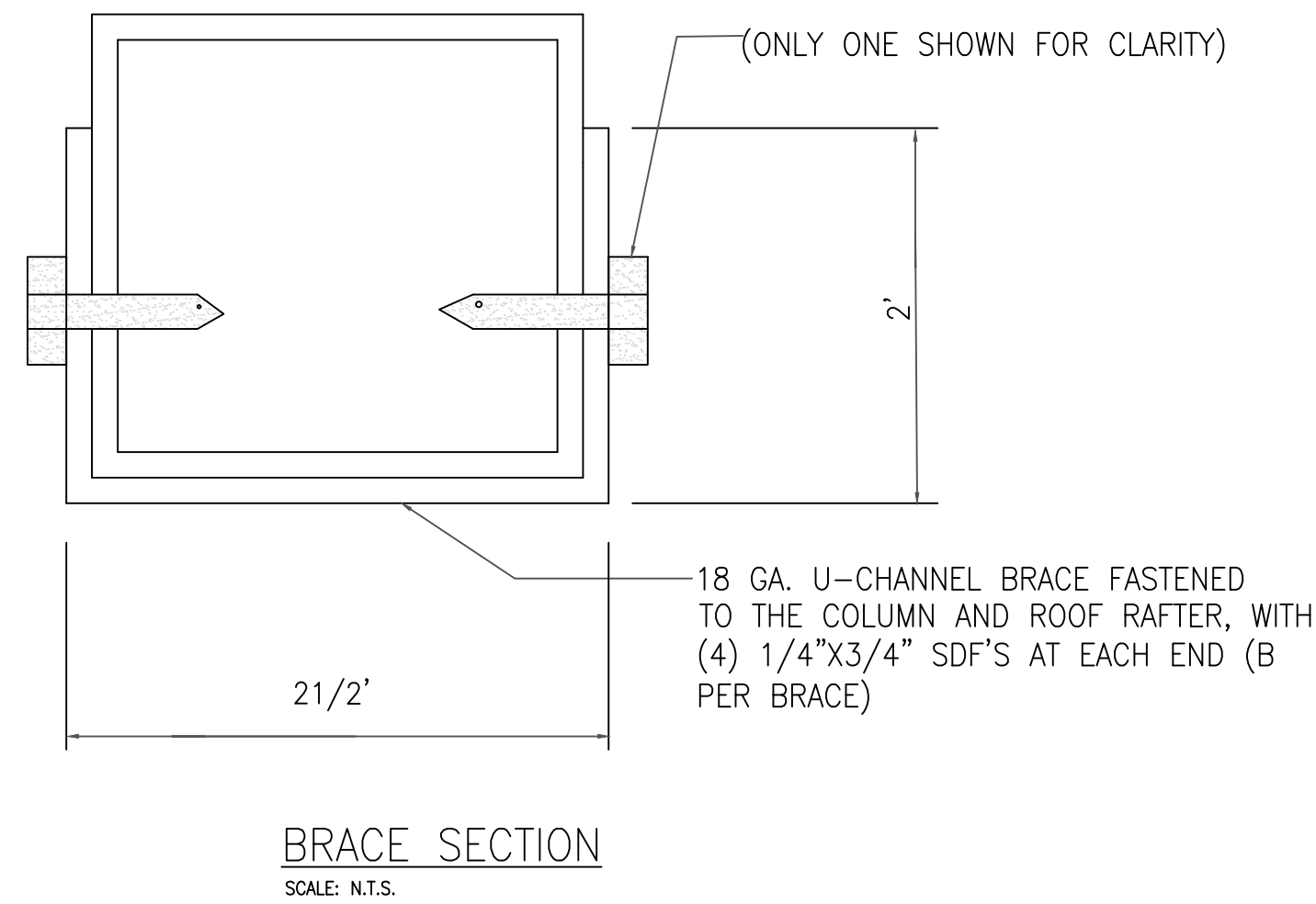




1B BOX EAVE RAFTER/CORNER POST  
CONNECTION DETAIL  
FOR HEIGHTS 12'-0" < TO ≤ 16'-0"  
SCALE: N.T.S.



1C BOX EAVE RAFTER/CORNER POST  
CONNECTION DETAIL  
FOR HEIGHTS ≤ 12'-0"  
SCALE: N.T.S.



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

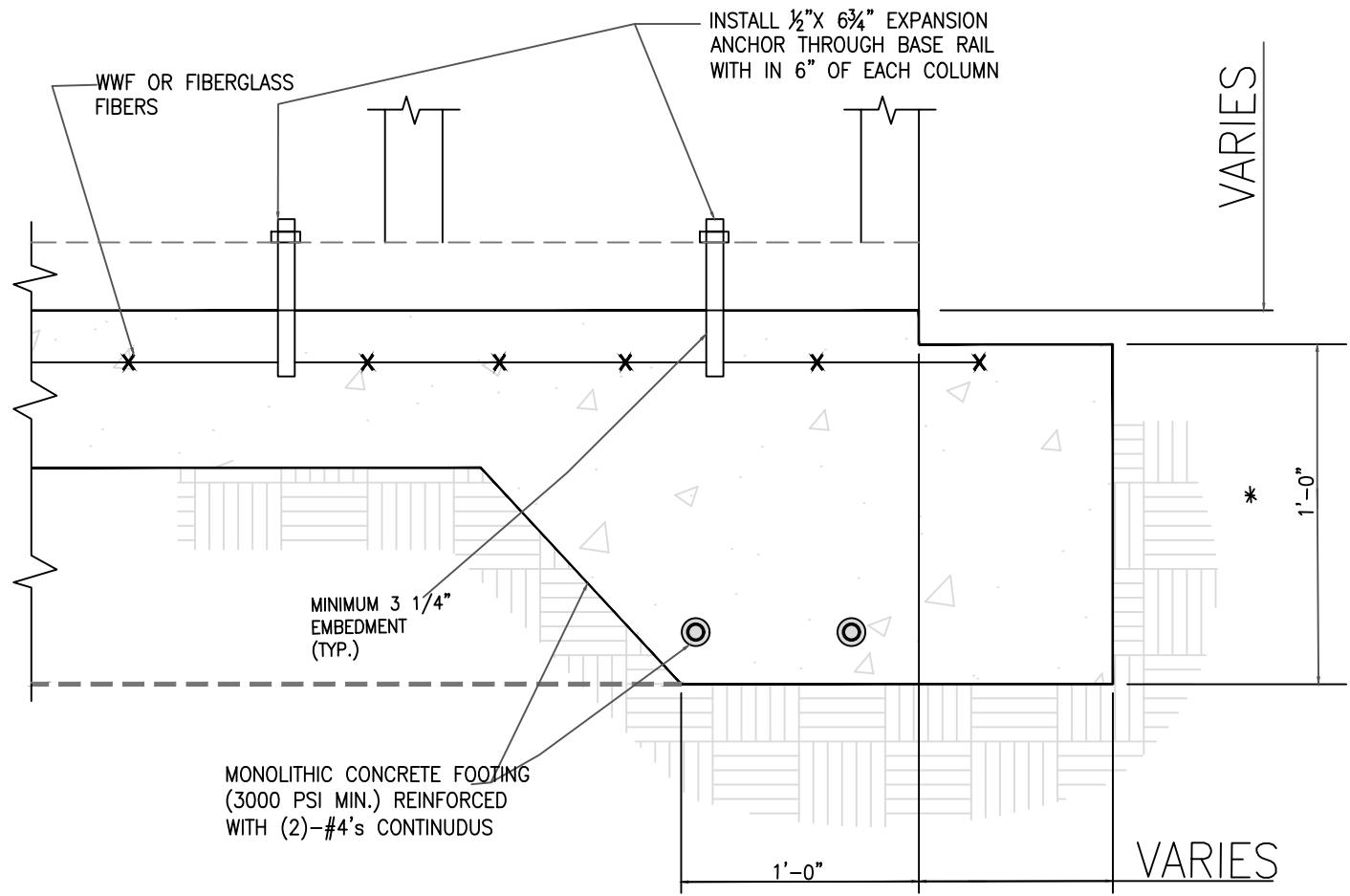
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No.	Date	Description
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BOX EAVE FRAME RAFTER STRUCTURE

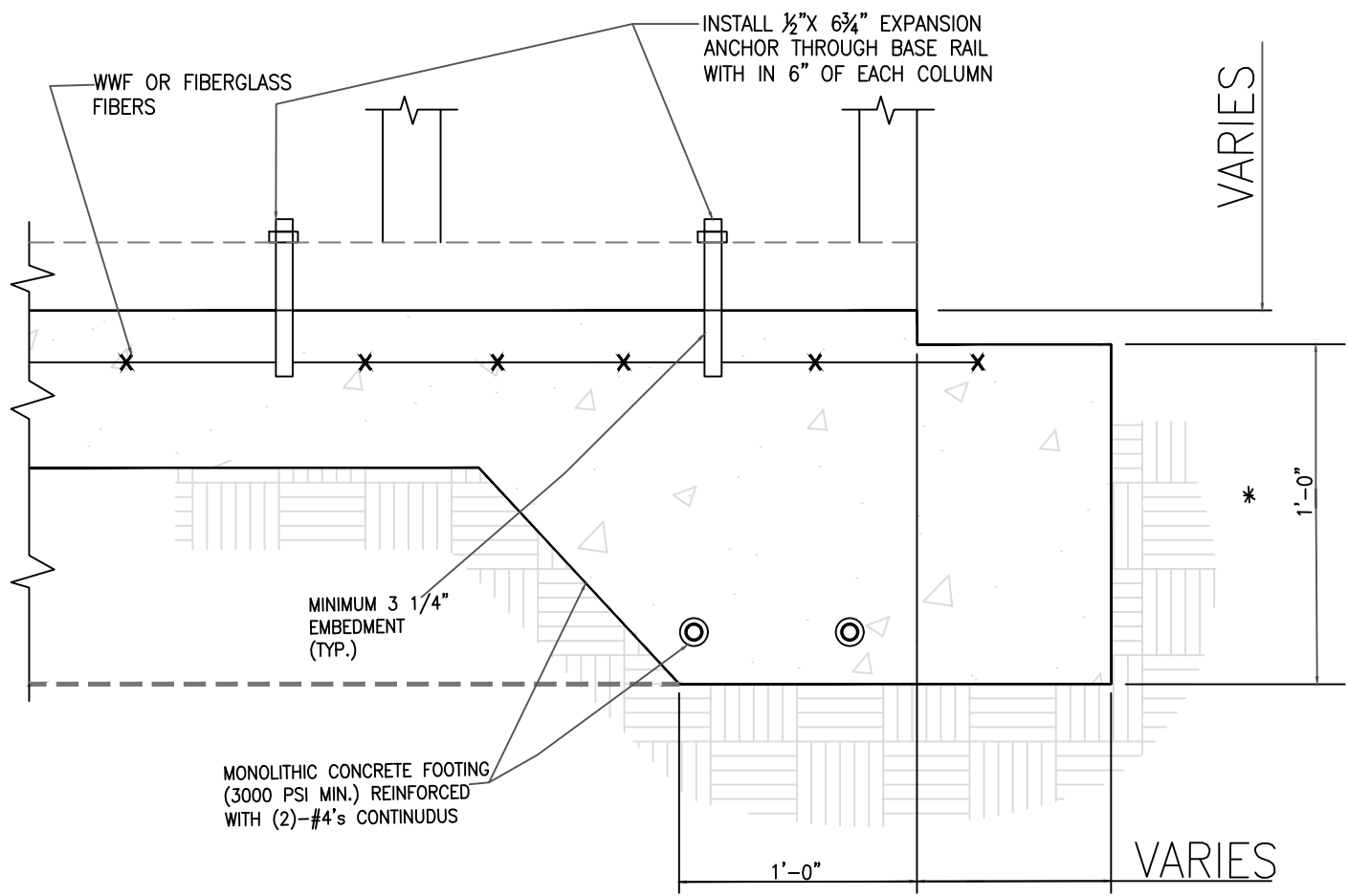
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LIVE OAK, FL 32060



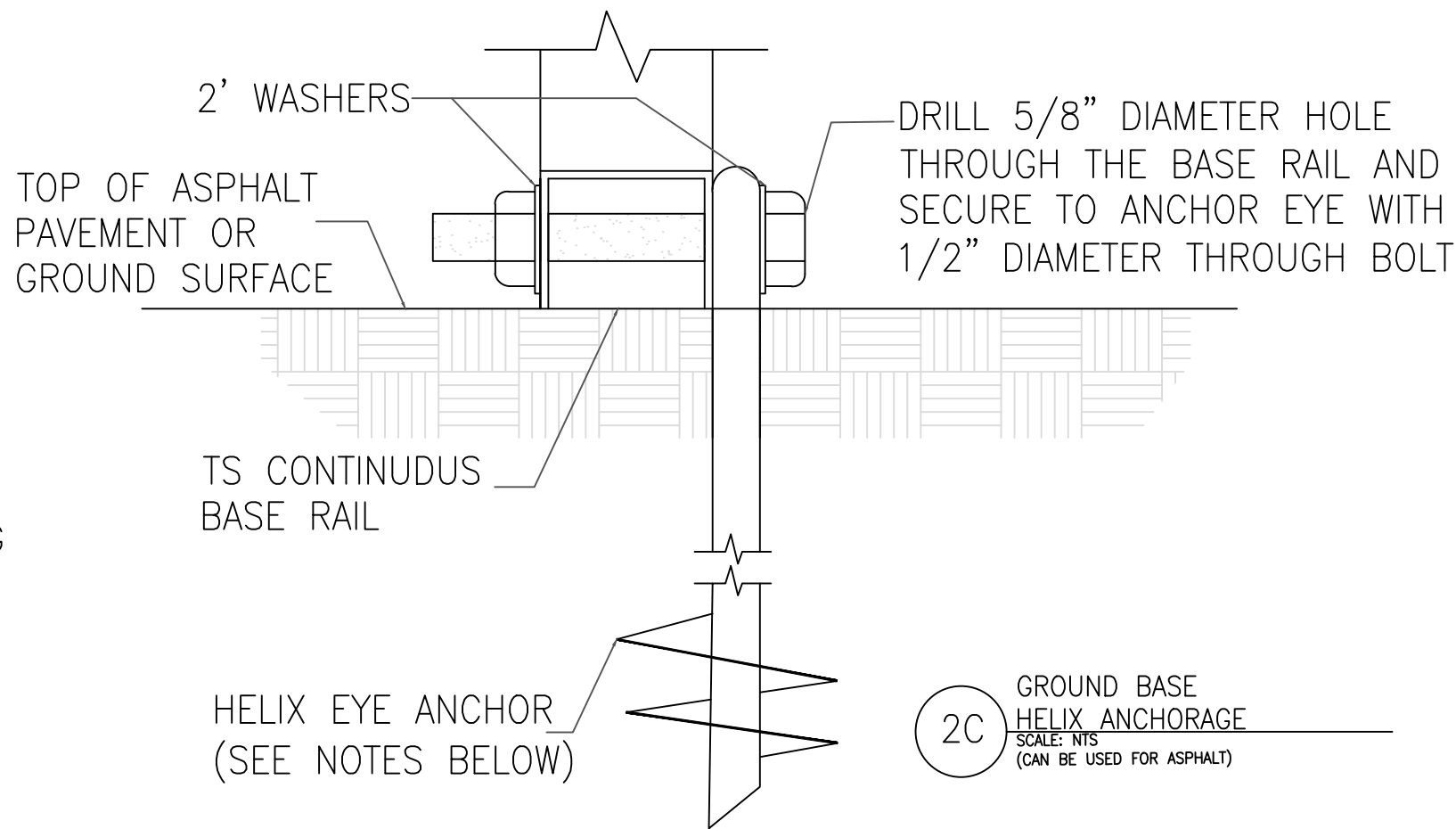
BASE RAIL ANCHORAGE OPTIONS



2A CONCRETE MONOLITHIC SLAB  
BASE RAIL ANCHORAGE  
SCALE: NTS  
MINIMUM ANCHOR EDGE DISTANCE IS 4".  
• COORDINATE WITH LOCAL CODES/ORD.



2B CONCRETE SLAB BASE  
RAIL ANCHORAGE  
SCALE: NTS  
MINIMUM ANCHOR EDGE DISTANCE IS 4".  
• COORDINATE WITH LOCAL CODES/ORD.



2C GROUND BASE  
HELIX ANCHORAGE  
SCALE: NTS  
(CAN BE USED FOR ASPHALT)

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.



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Job # S2080

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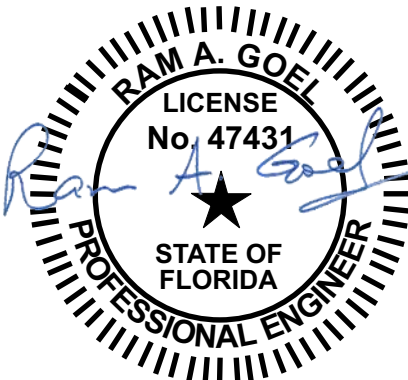
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BASE RAIL ANCHORAGE OPTIONS

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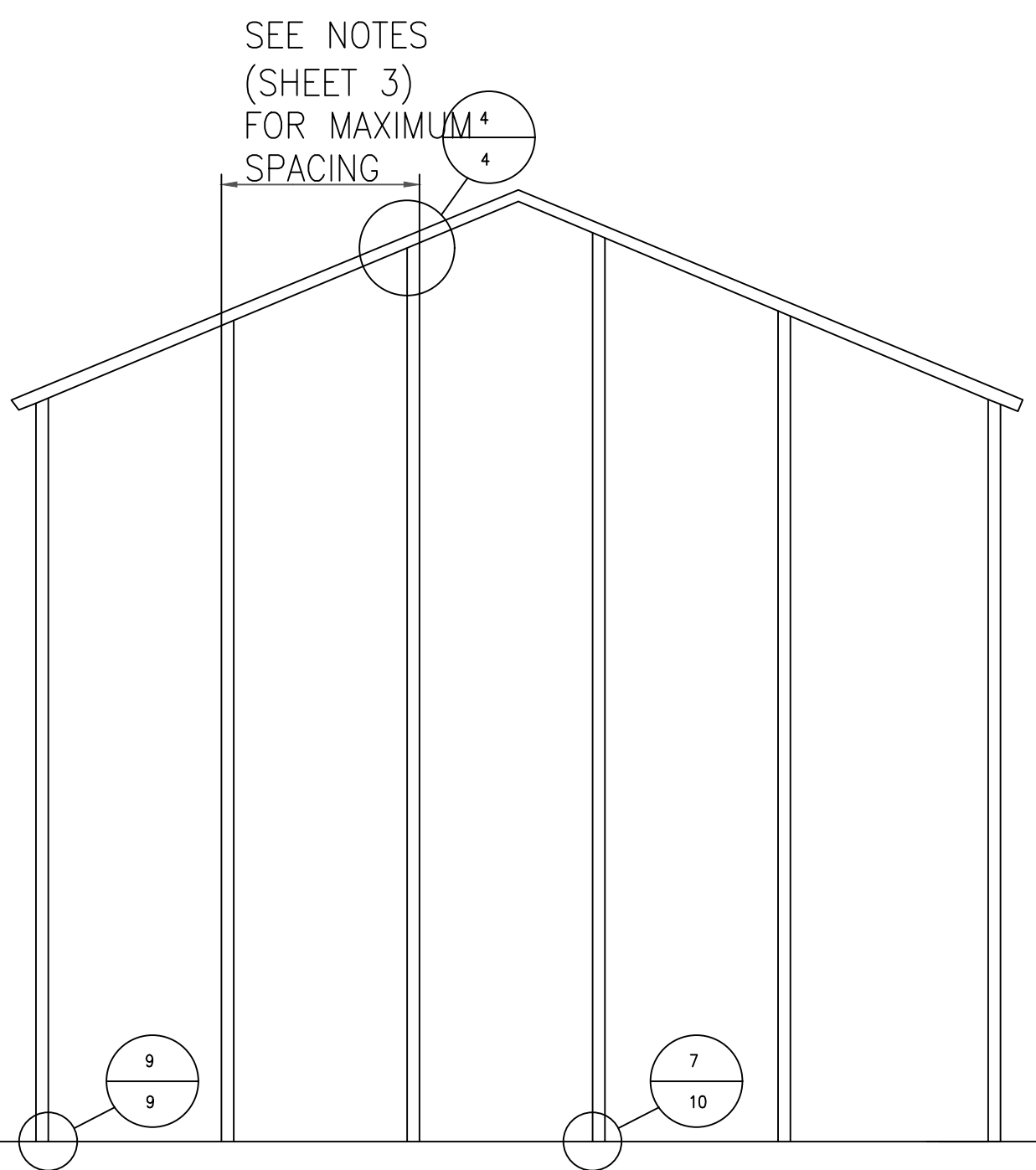
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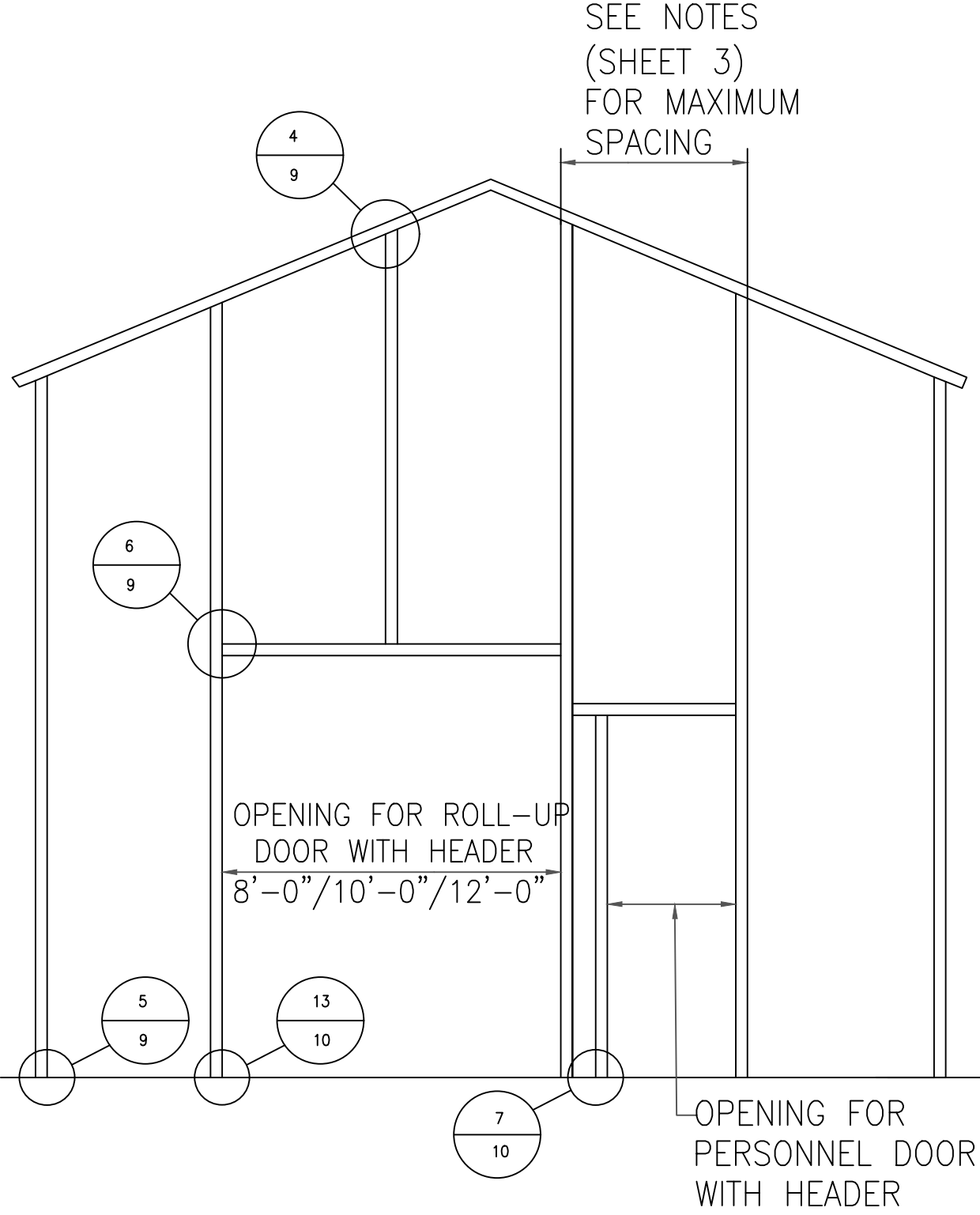
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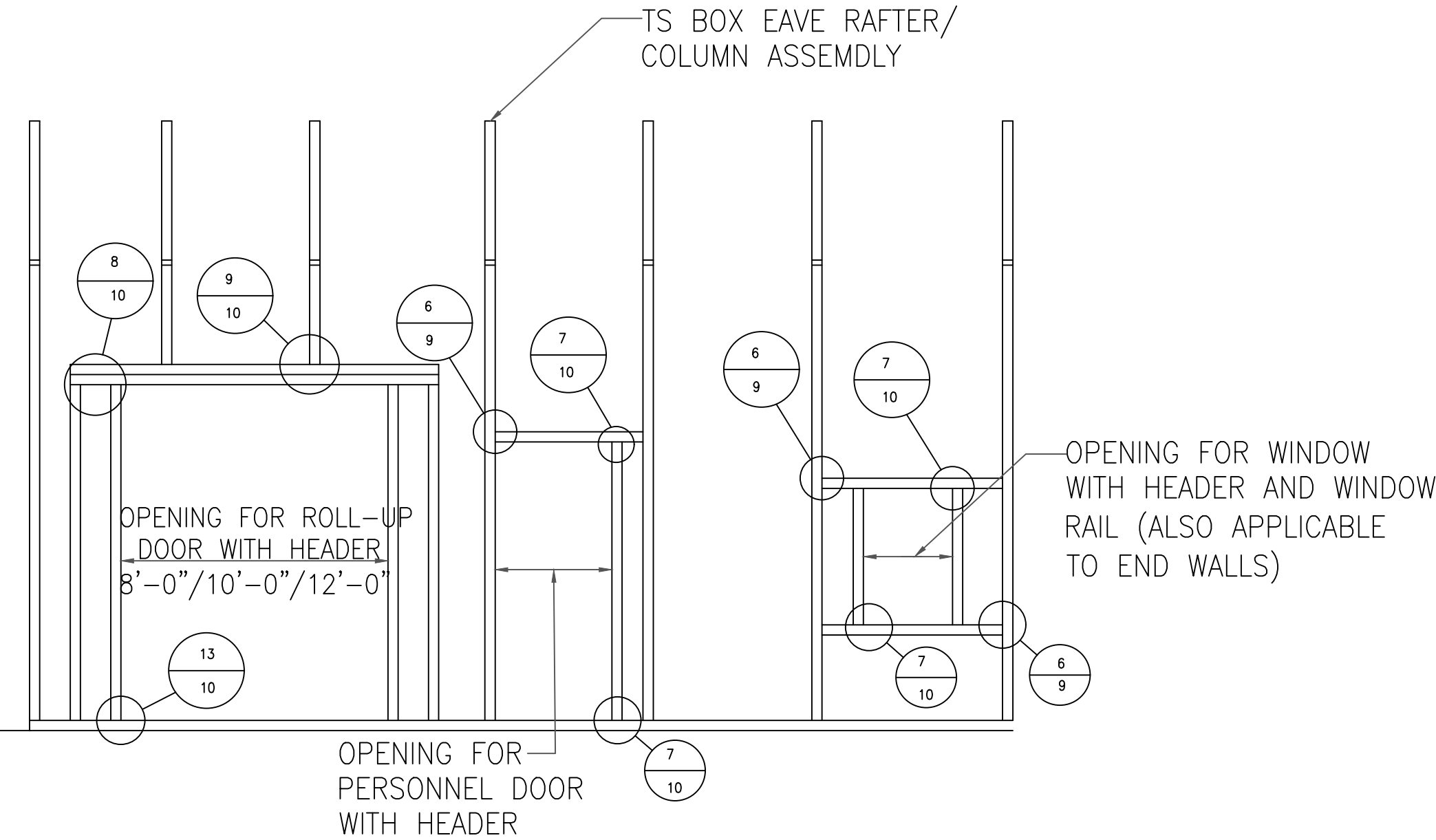
BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



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



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.

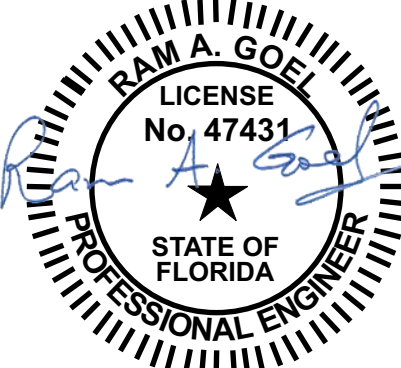
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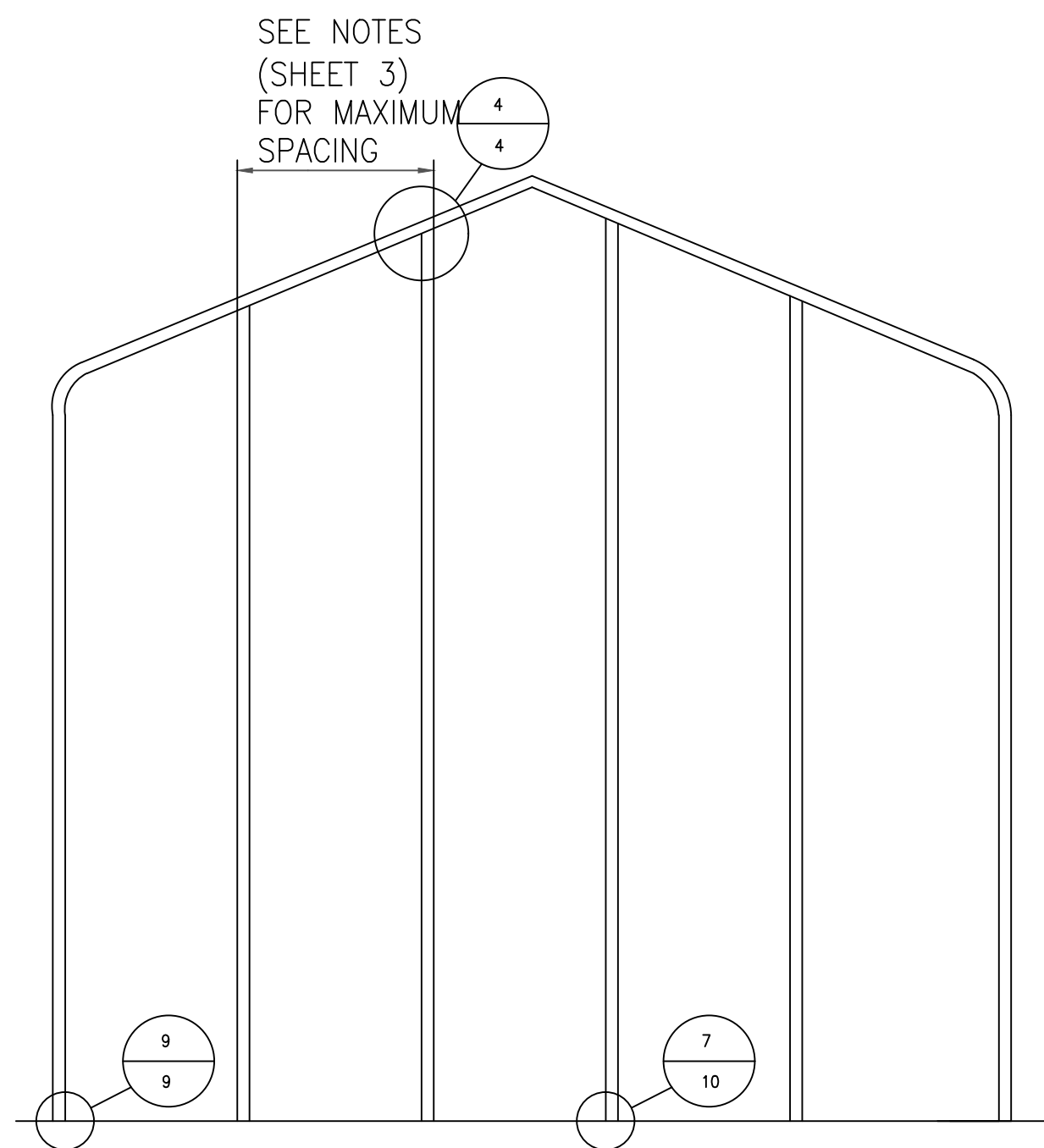
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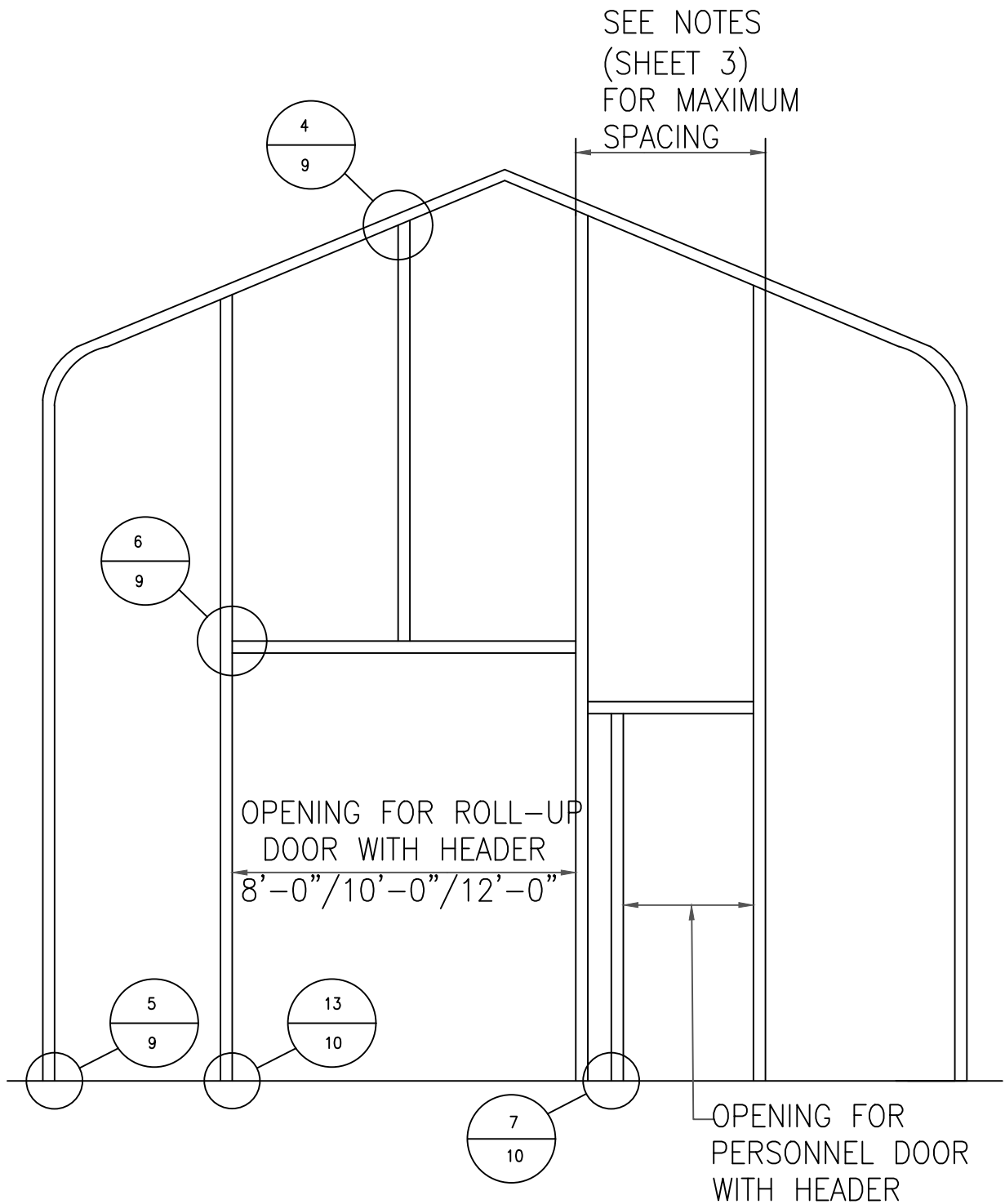
BOX EAVE RAFTER END WALL AND  
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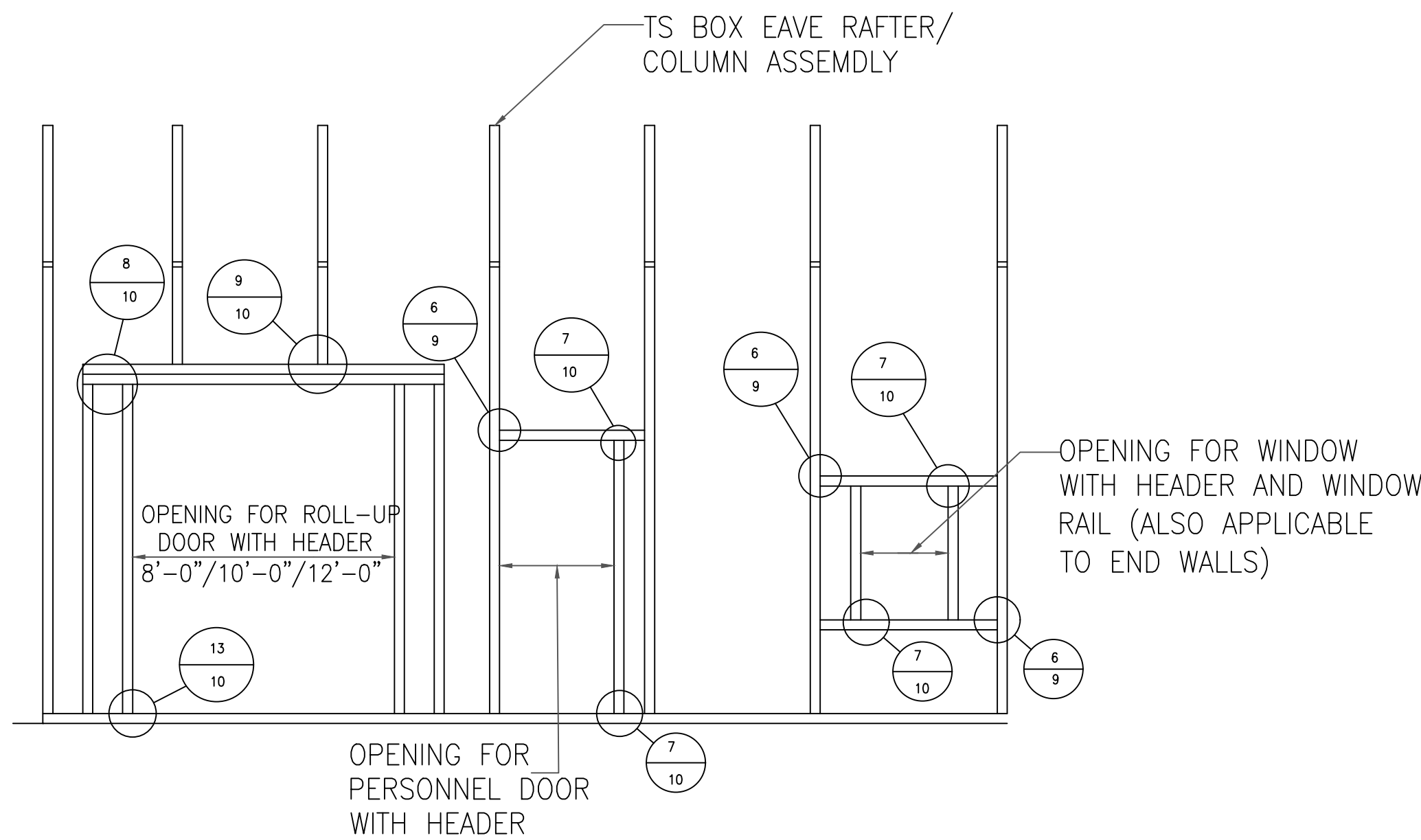
BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



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



TYPICAL BOX EAVE RAFTER END  
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SCALE: N.T.S.



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

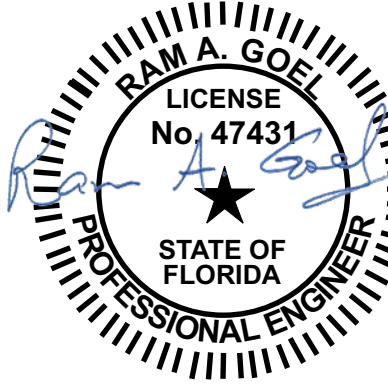
Richard G. Marceau, P.E. # 64466  
PH: 813-388-6090  
SONEY FM LLC  
CORY LAKE PROFESSIONAL CENTER  
10329 CROSS CREEK BLVD., SUITE P  
TAMPA, FL 33647  
www.soneyfmllc.com

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

Issue Date: 04-10-21		
Revisions:		
No.	Date	Description
Δ	11	
Δ	11	
Δ	11	
Δ	11	

Ram Goel  
Digitally signed by Ram Goel  
DN: cn=Ram Goel, o=SONEY FM LLC,  
ou=SONEY FM LLC, cn=Ram Goel,  
c=US, email=ramgoel@sonyfm.com,  
date=2021.04.11 11:15:10-0400

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Dr. Ram A. Goel PE # 47431

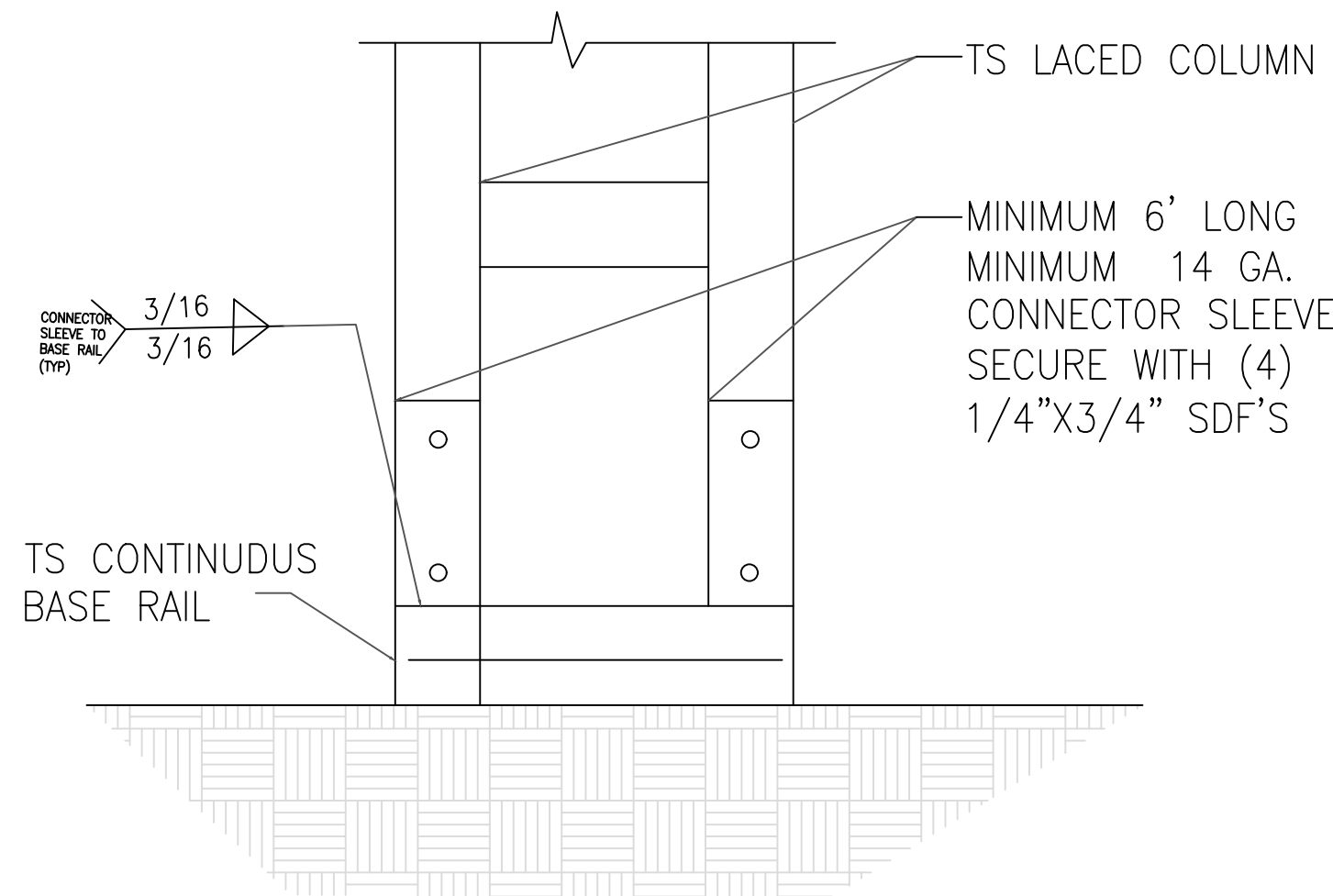
COPIES OF THESE PLANS ARE NOT VALID UNLESS EMBOSSED WITH THE SIGNING ENGINEER'S SEAL

BOX EAVE RAFTER END WALL AND  
SIDE WALL OPENINGS

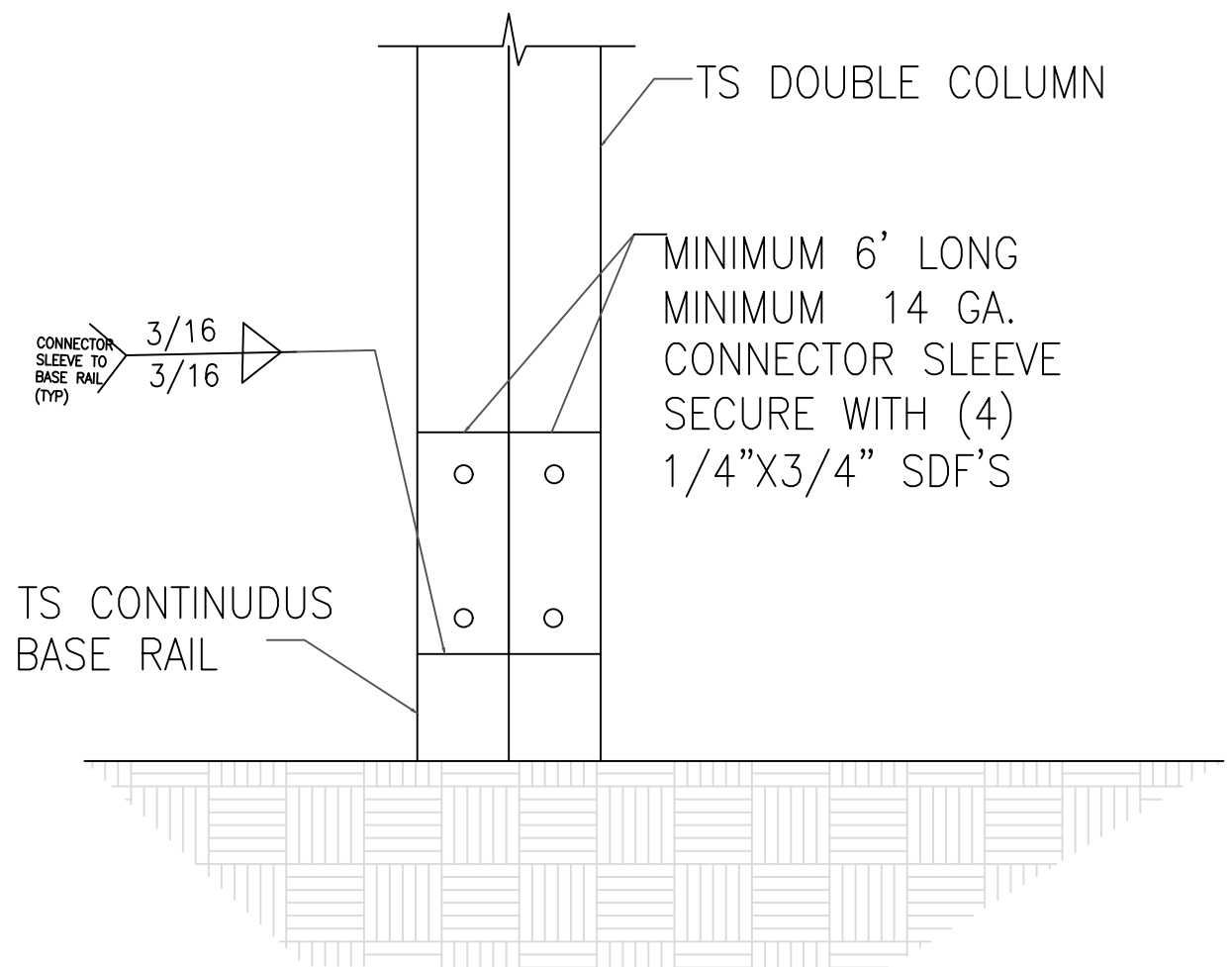
ELITE METAL MANUFACTURING, LLC  
10121 88TH TRACE  
LIVE OAK, FL 32060



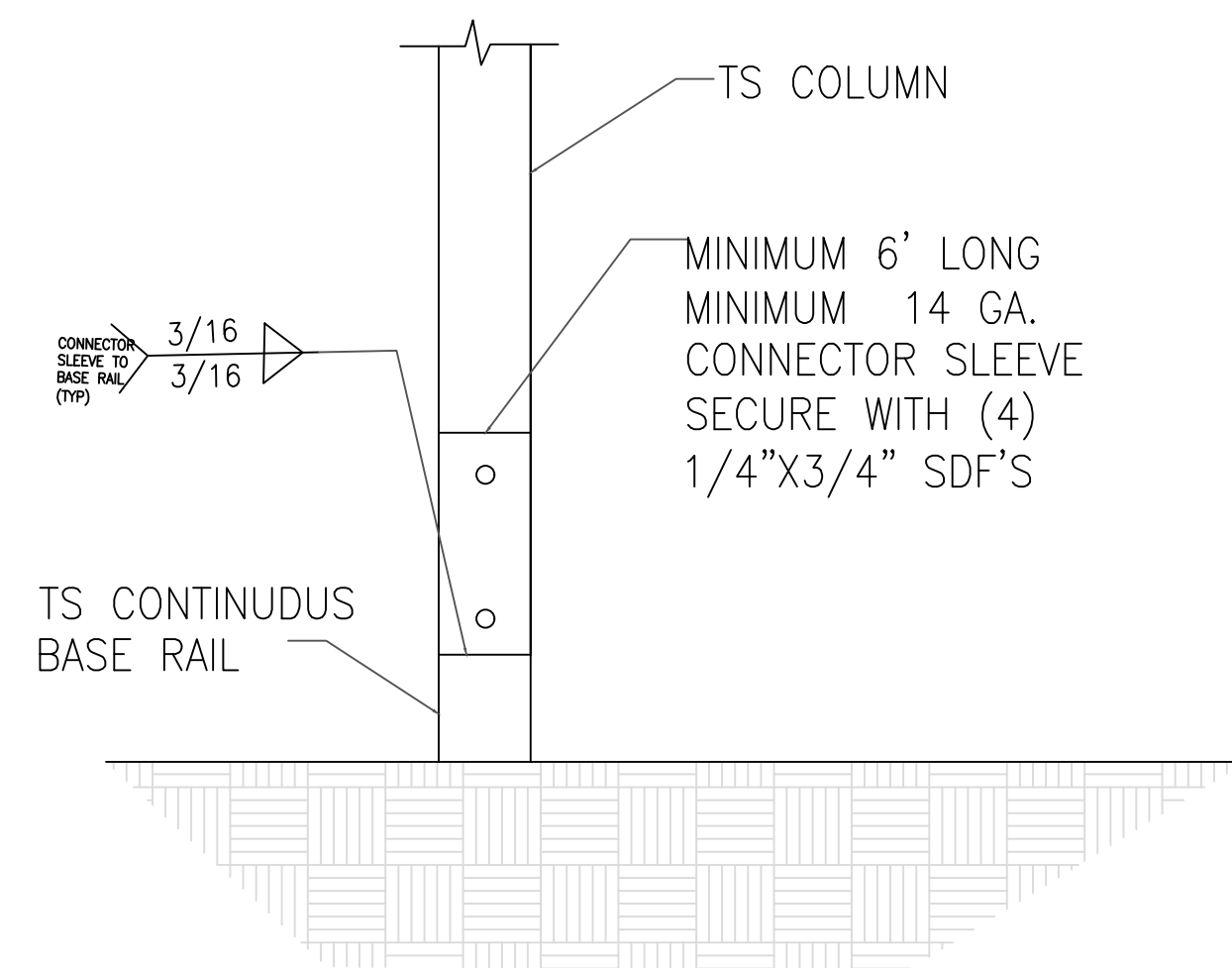
CONNECTION DETAILS



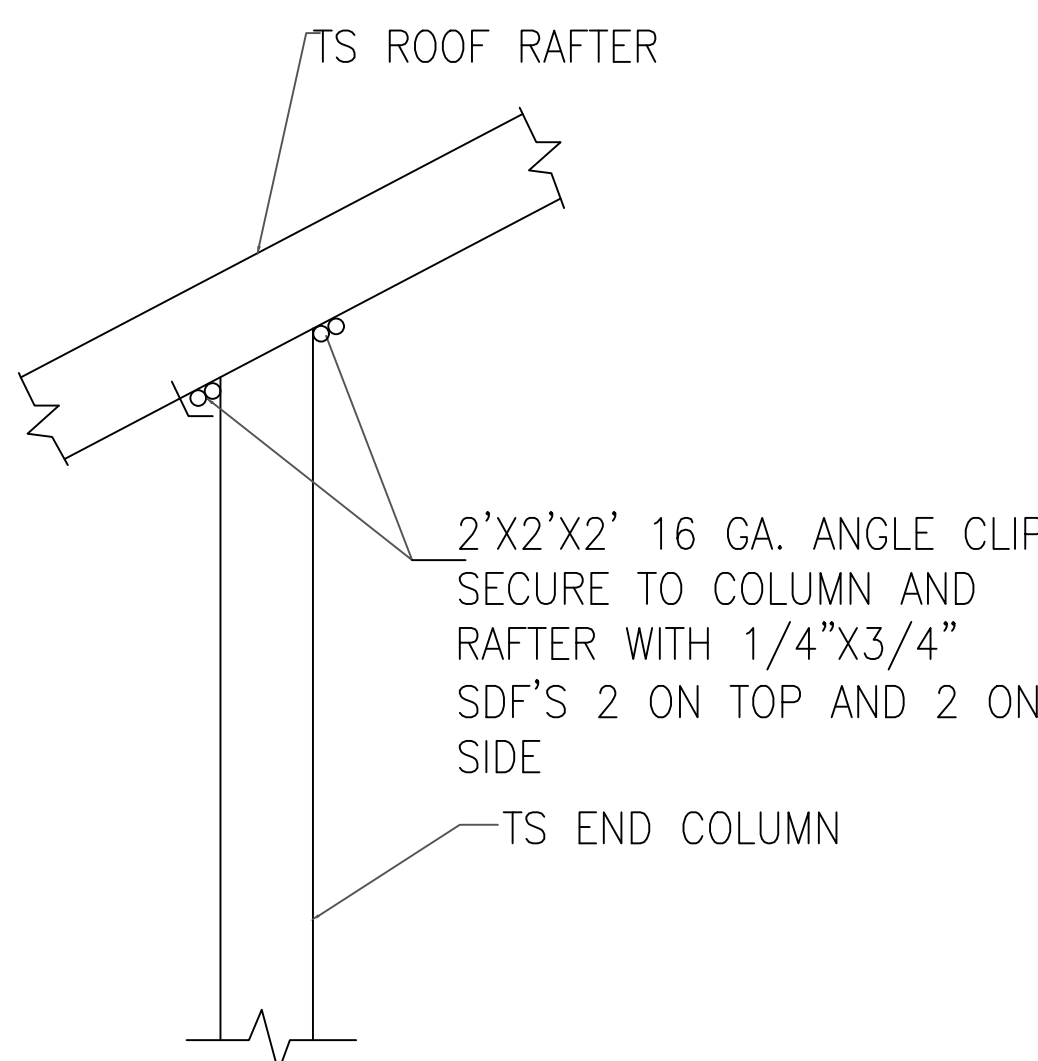
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SCALE: NTS



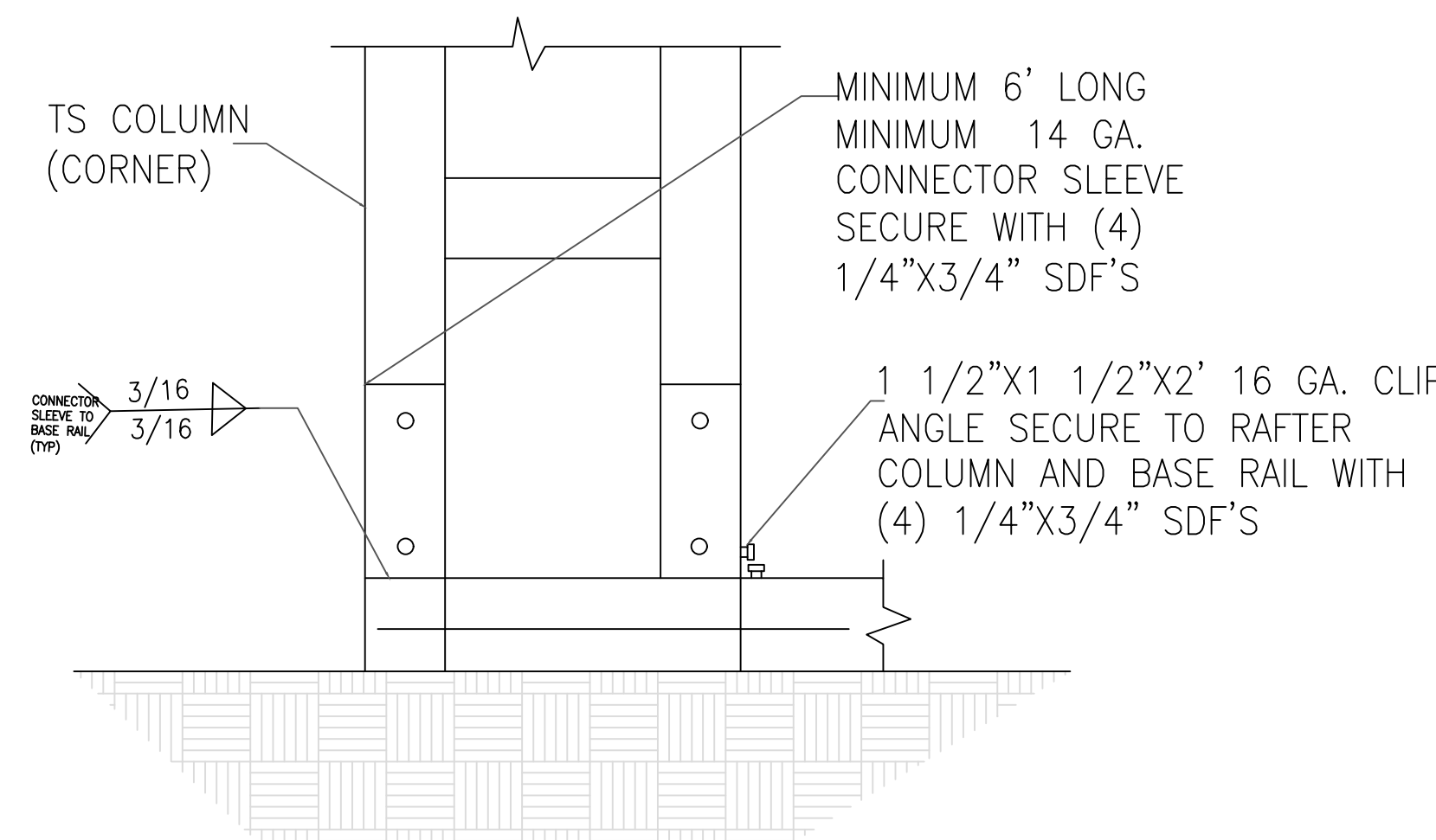
3B POST/BASE RAIL CONNECTION DETAIL  
SCALE: NTS



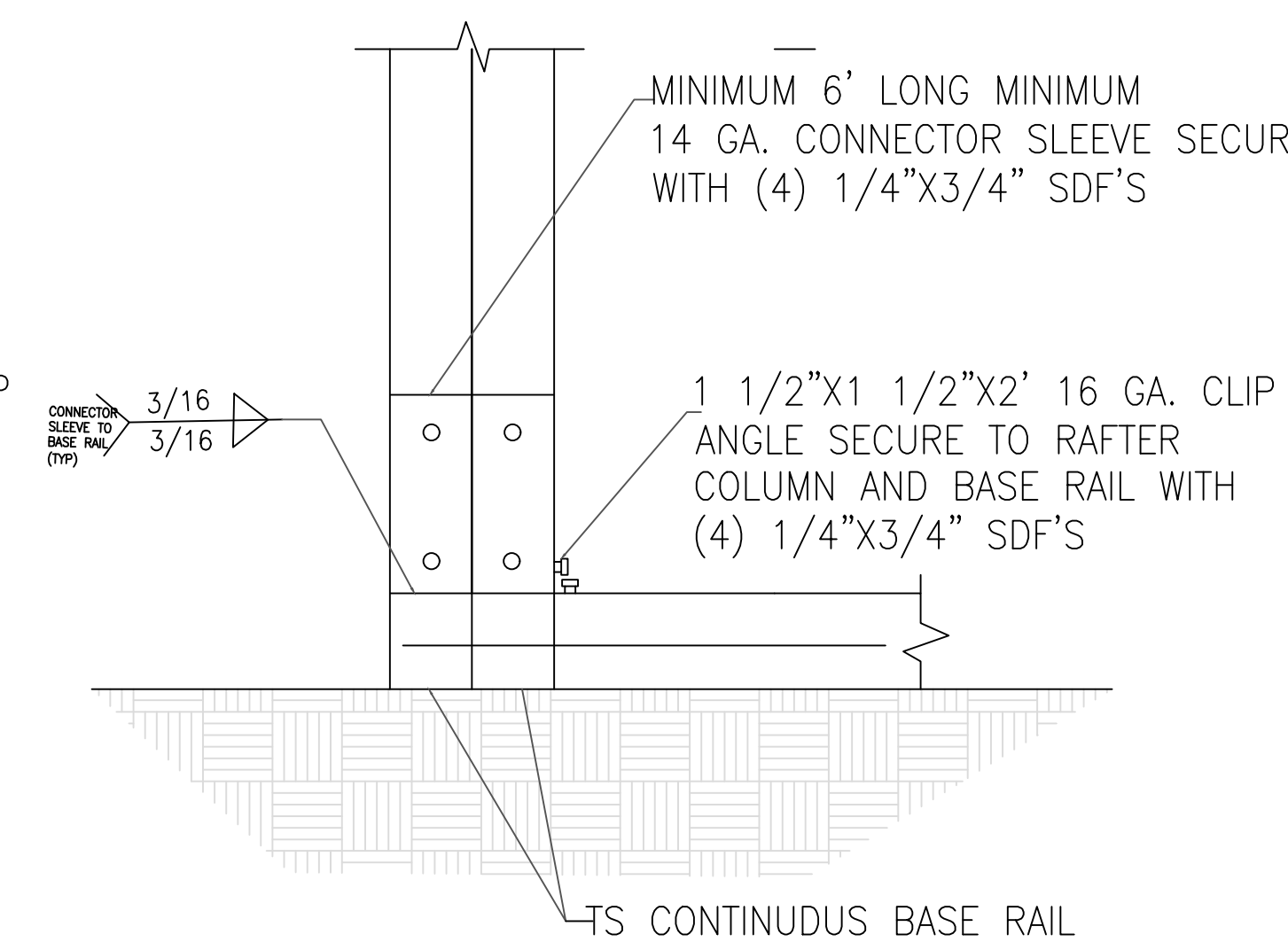
3C POST/BASE RAIL CONNECTION DETAIL  
SCALE: NTS



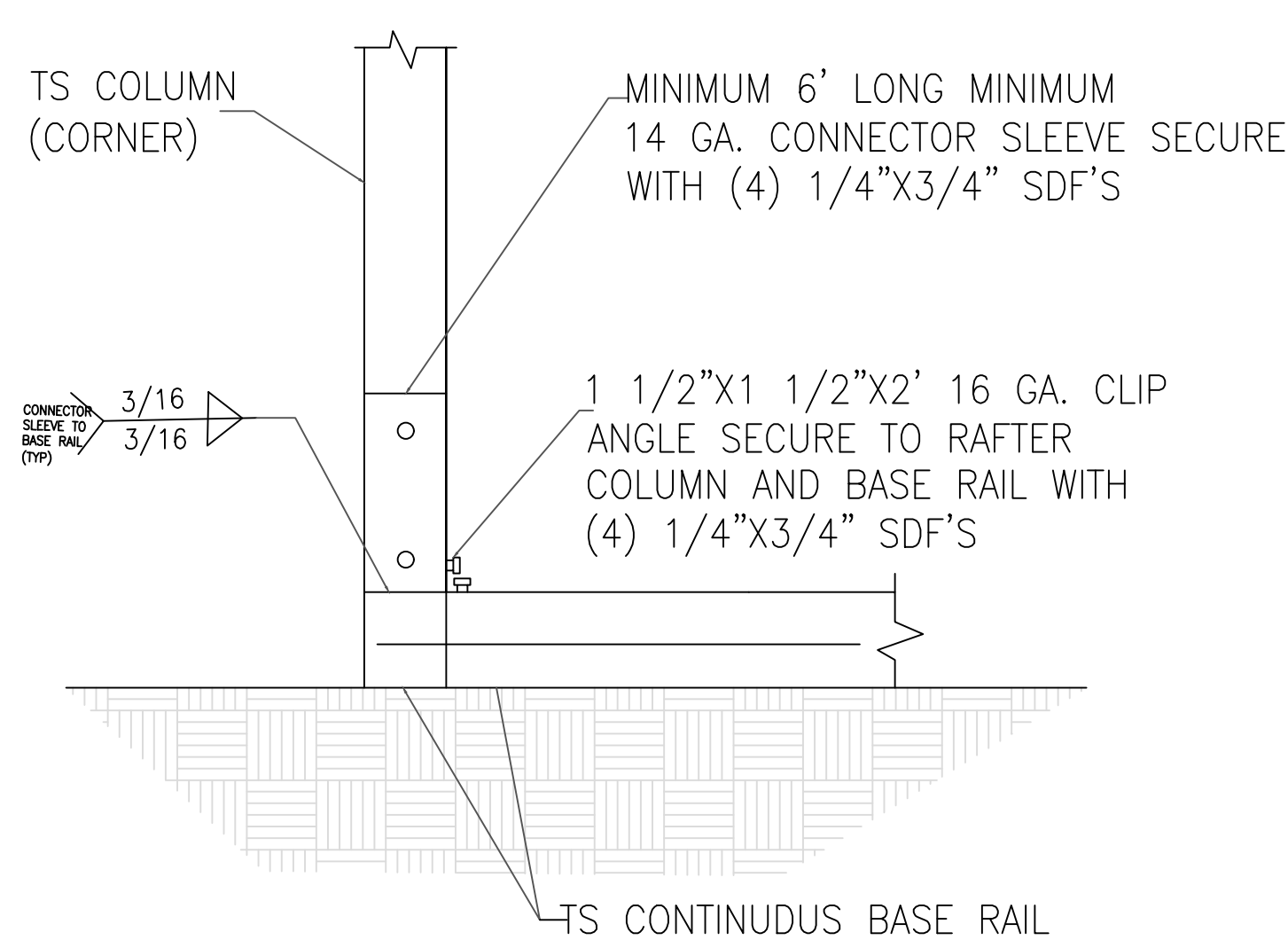
4 END COLUMN/RAFTER CONNECTION DETAIL  
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5A END COLUMN/BASE RAIL CONNECTION DETAIL  
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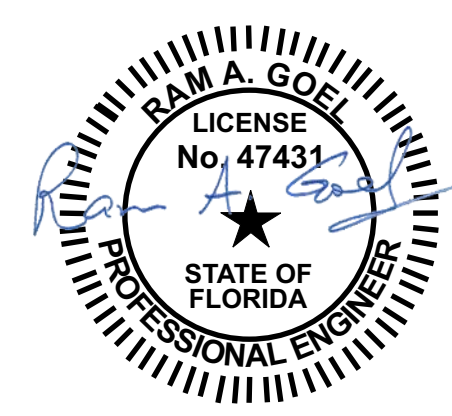


5B END COLUMN/BASE RAIL CONNECTION DETAIL  
SCALE: NTS



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

Ram Goel  
Digitally signed by Ram Goel  
DN: cn=Ram Goel, o=Elite Metal Manufacturing, LLC, ou=Elite Metal Manufacturing, LLC, email=ramgoel@elite-metal.com, c=US



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www.soneyfmllc.com

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

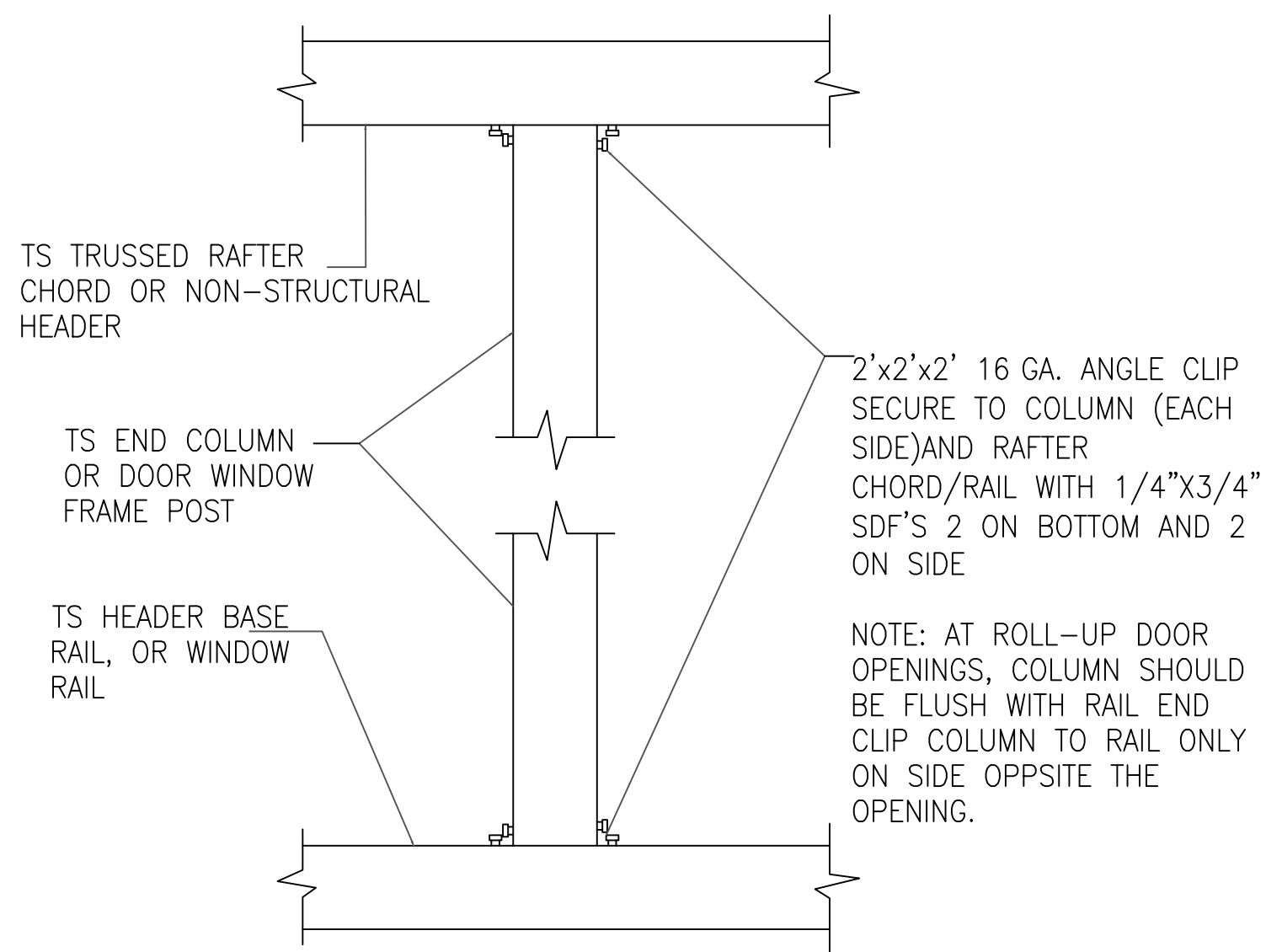
Issue Date: 04-10-21		
Revisions:		
No.	Date	Description
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2	11	
3	11	
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CONNECTION DETAILS

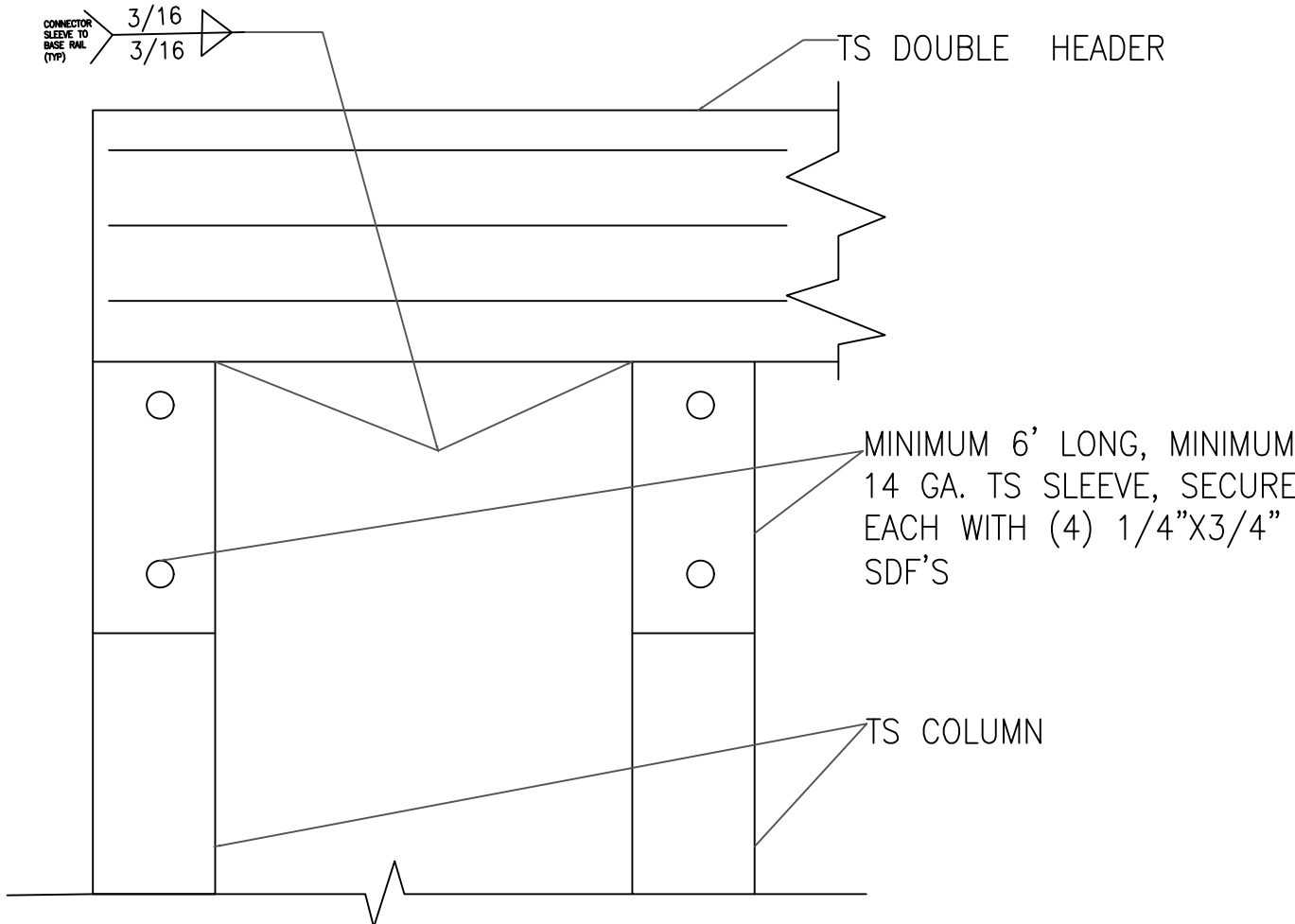
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10121 88TH TRACE  
LIVE OAK, FL 32060



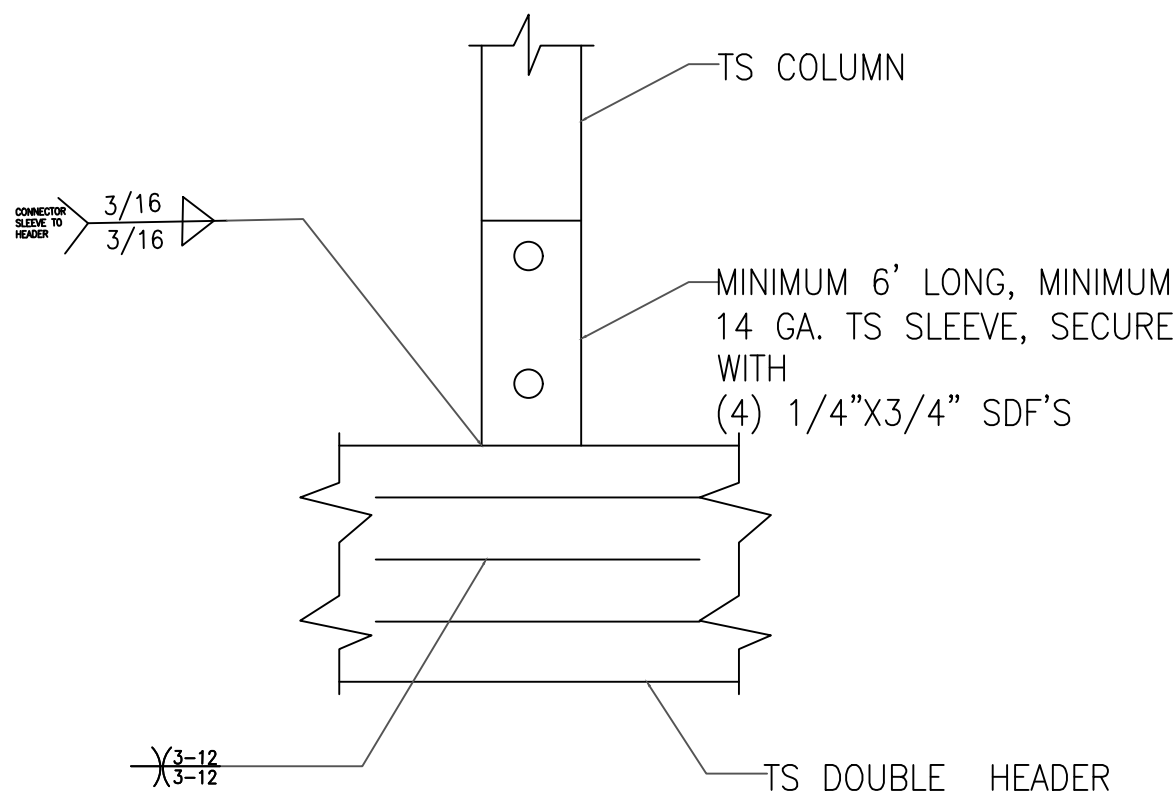
CONNECTION DETAILS



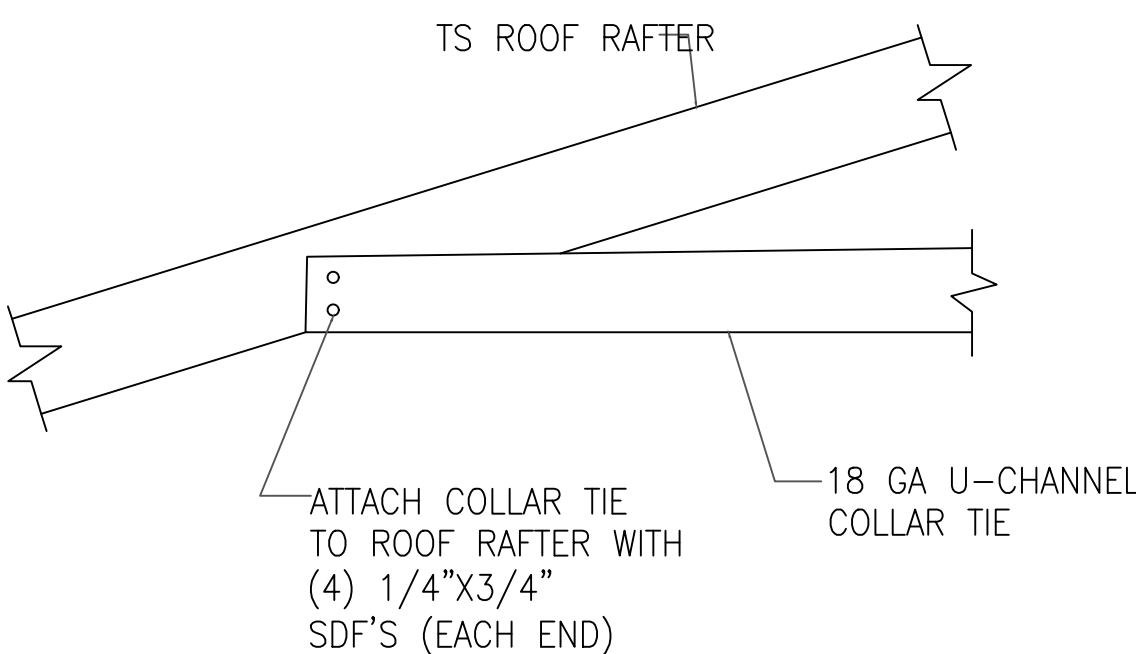
7 COLUMN TO HEADER, BASE RAIL OR WINDOW RAIL CONNECTION DETAIL  
SCALE: NTS



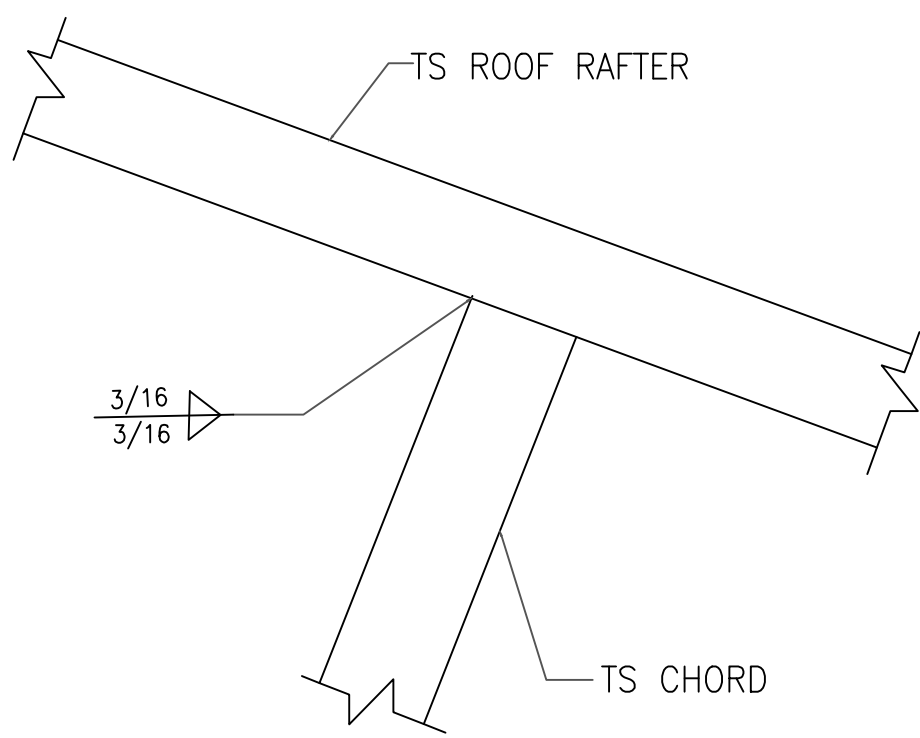
8 DOUBLE HEADER/COLUMN CONNECTION DETAIL  
SCALE: NTS



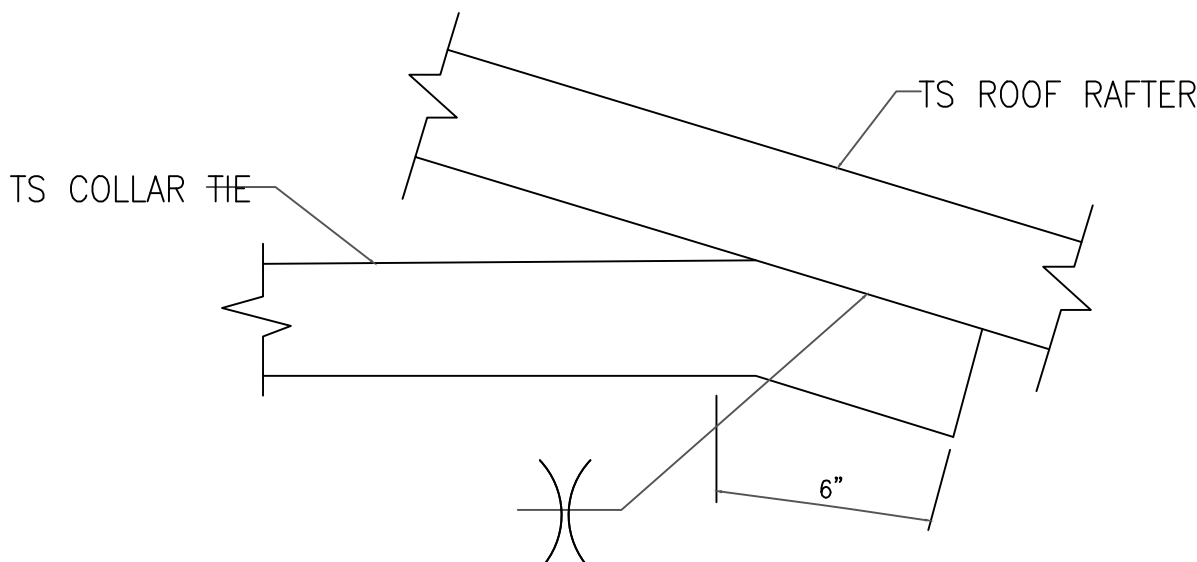
9 COLUMN/DOUBLE HEADER CONNECTION DETAIL  
SCALE: NTS



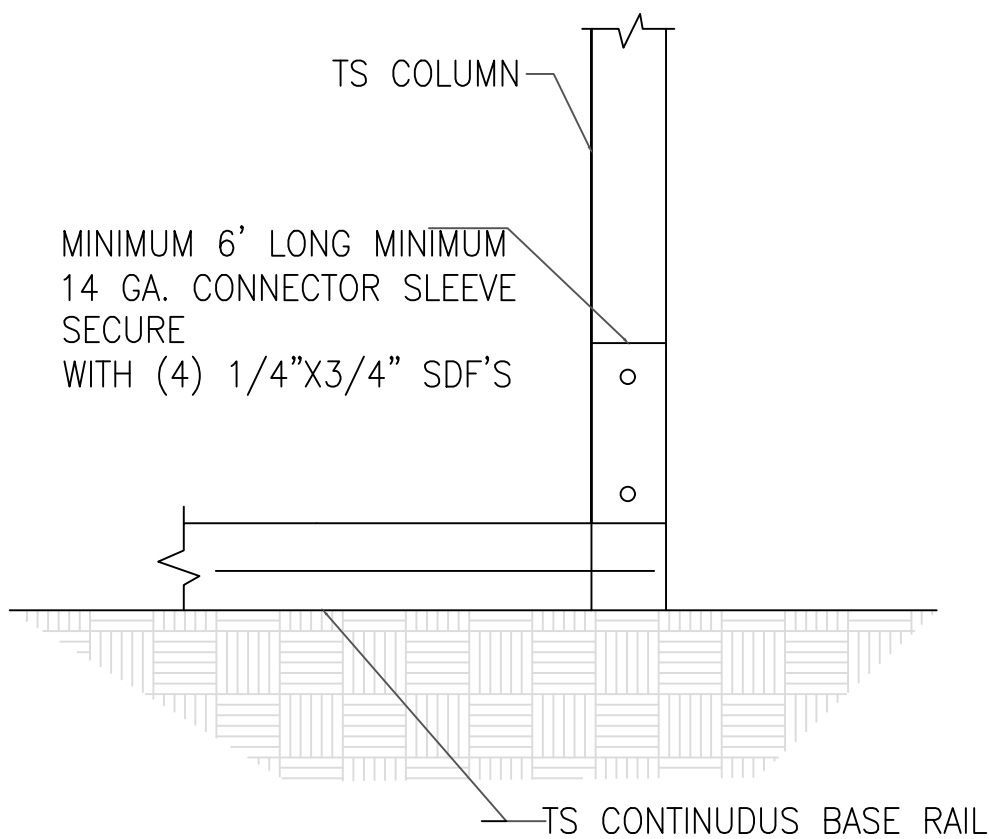
10 COLLAR TIE CONNECTION DETAIL  
SCALE: NTS



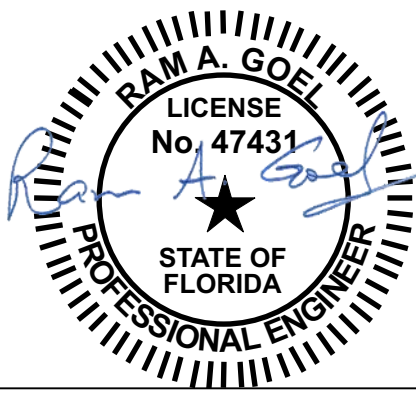
11 RAFTER TO CHORD CONNECTION DETAIL  
SCALE: NTS



12 COLLAR TIE CONNECTION DETAIL  
SCALE: NTS



13 COLUMN/BASE RAIL CONNECTION DETAIL  
SCALE: NTS



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

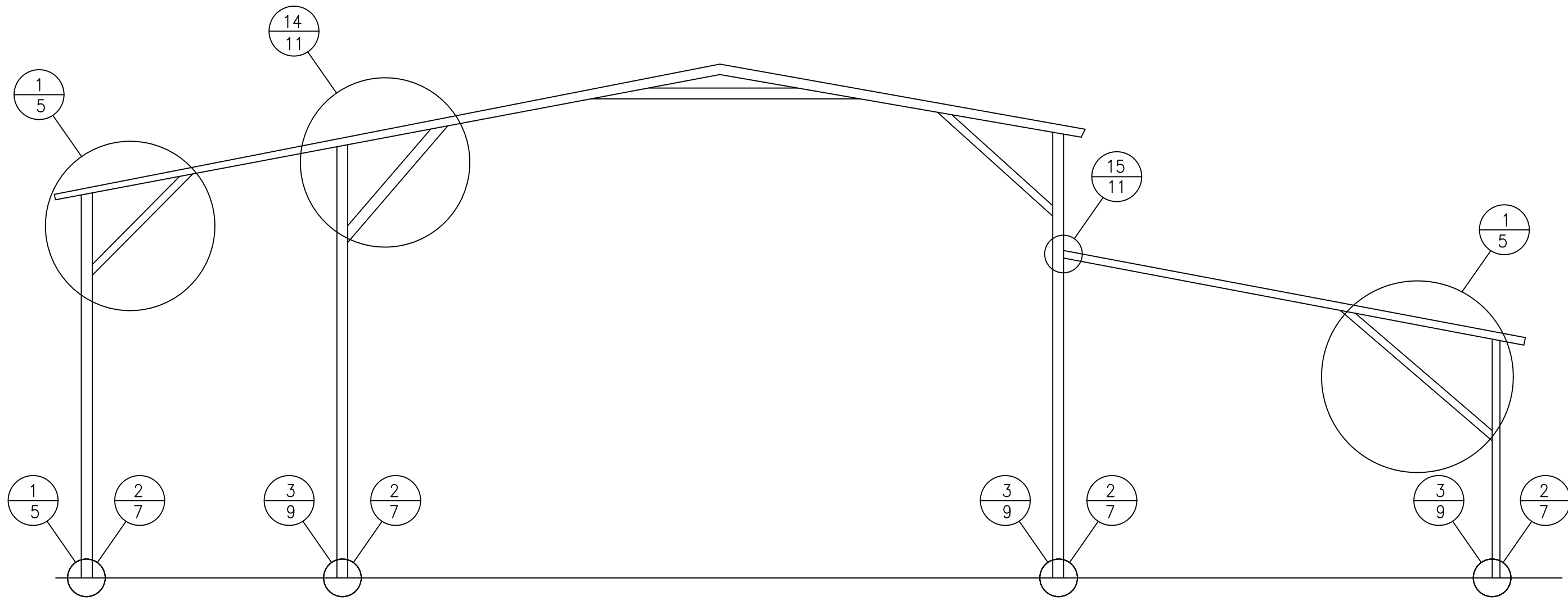
Issue Date: 04-10-21		
Revisions:		
No.	Date	Description
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CONNECTION DETAILS

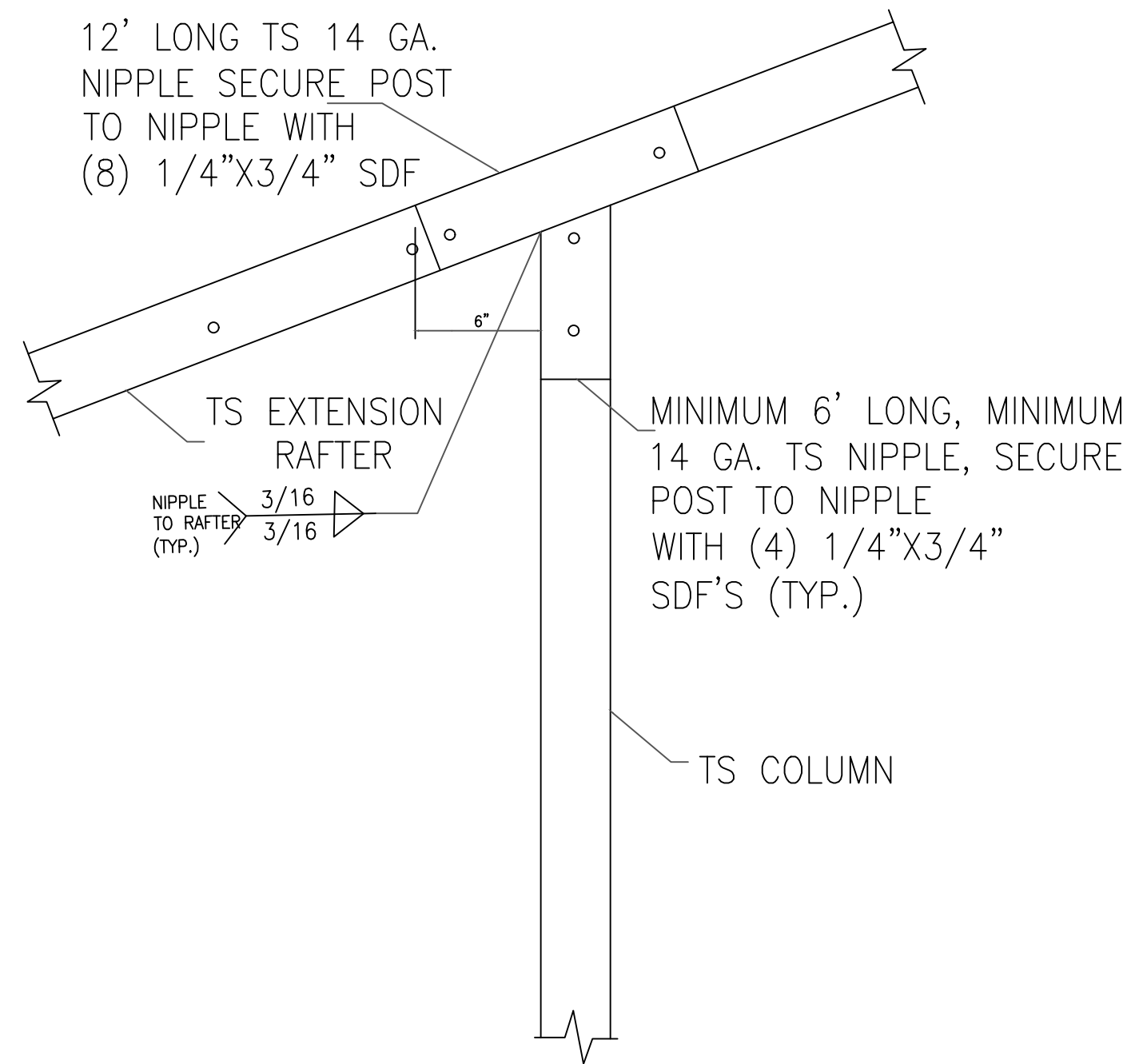
ELITE METAL MANUFACTURING, LLC  
10121 88TH TRACE  
LIVE OAK, FL 32060



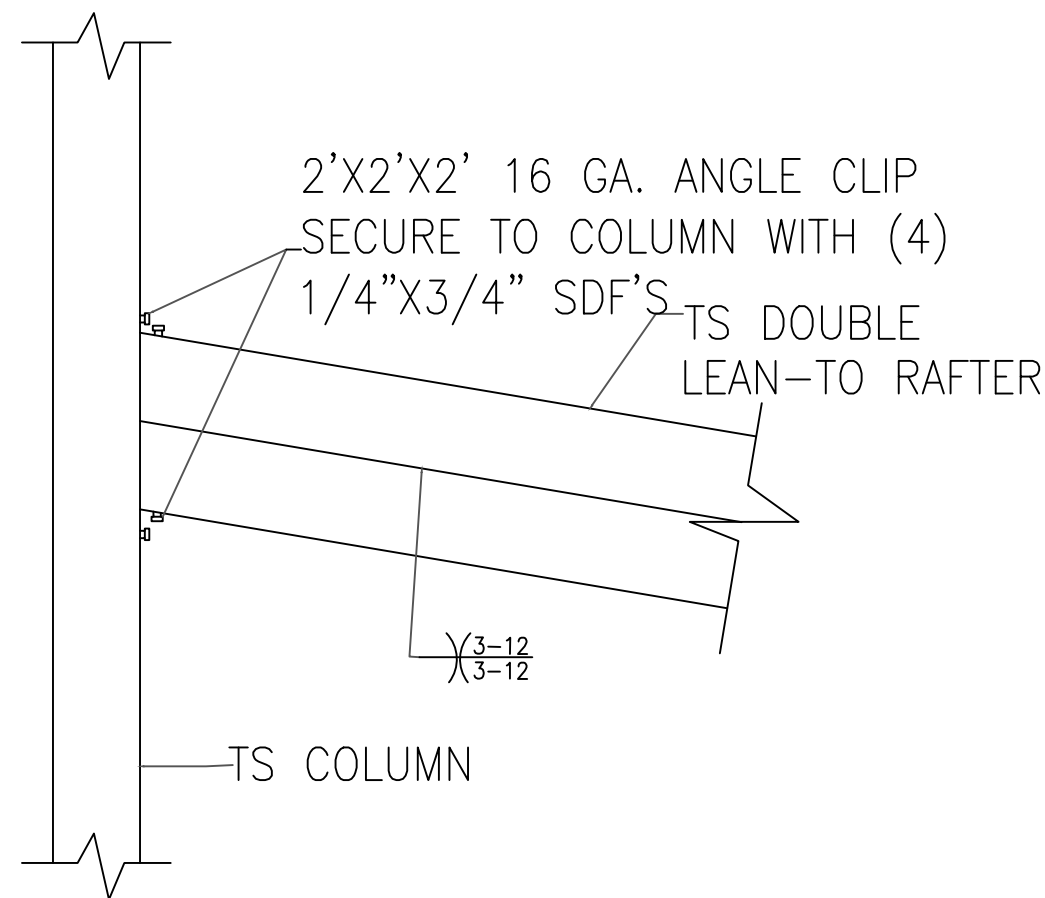
BOX EAVE RAFTER LEAN-TO OPTIONS



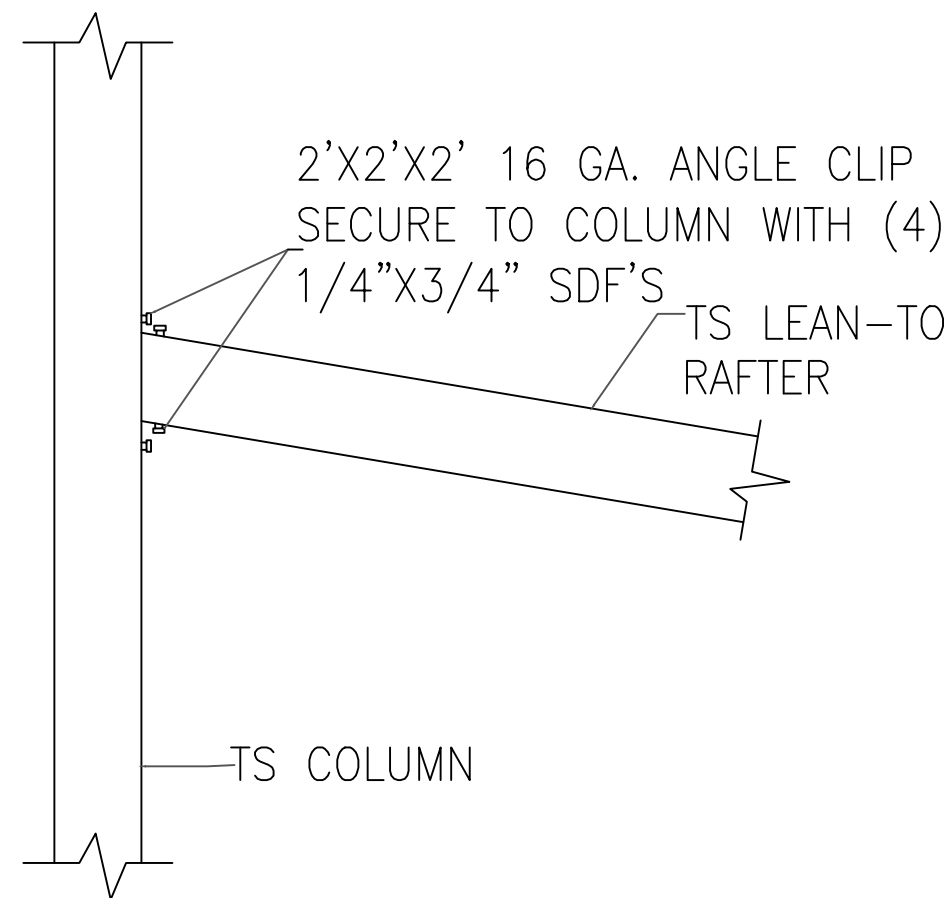
TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)  
SCALE: NTS



14 SIDE EXTENSION RAFTER/  
CORNER POST DETAIL  
SCALE: NTS



15A LEAN-TO RAFTER TO  
RAFTER POST CONNECTION  
DETAIL FOR WIDTHS  
12'-0" < TO ≤ 16'-0"  
SCALE: NTS



15B LEAN-TO RAFTER TO  
RAFTER POST CONNECTION  
DETAIL FOR WIDTHS ≤12'-0"  
SCALE: NTS



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Job # S2080

Drawn By: K.D.

Checked By: S.G.

Issue Date: 04-10-21

Revisions:		
No.	Date	Description
Δ	//	
Δ	//	
Δ	//	
Δ	//	

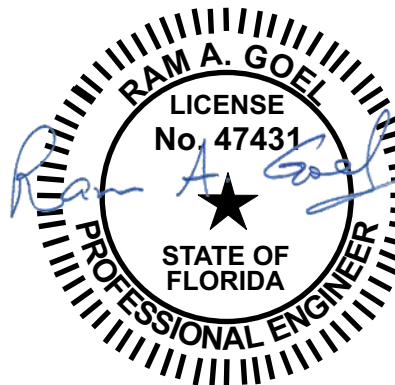
BOX EAVE RAFTER LEAN-TO OPTIONS

ELITE METAL MANUFACTURING, LLC  
10121 88TH TRACE  
LIVE OAK, FL 32060



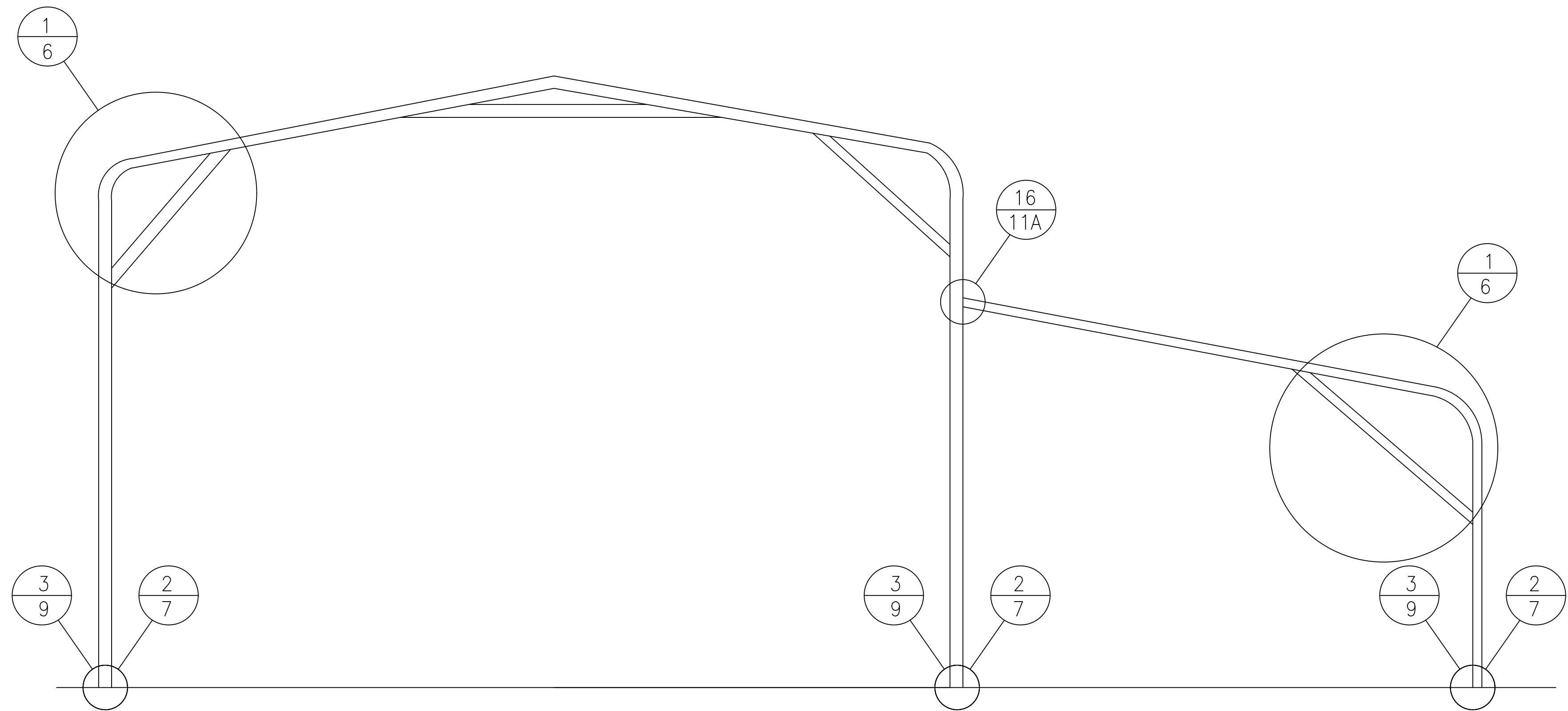
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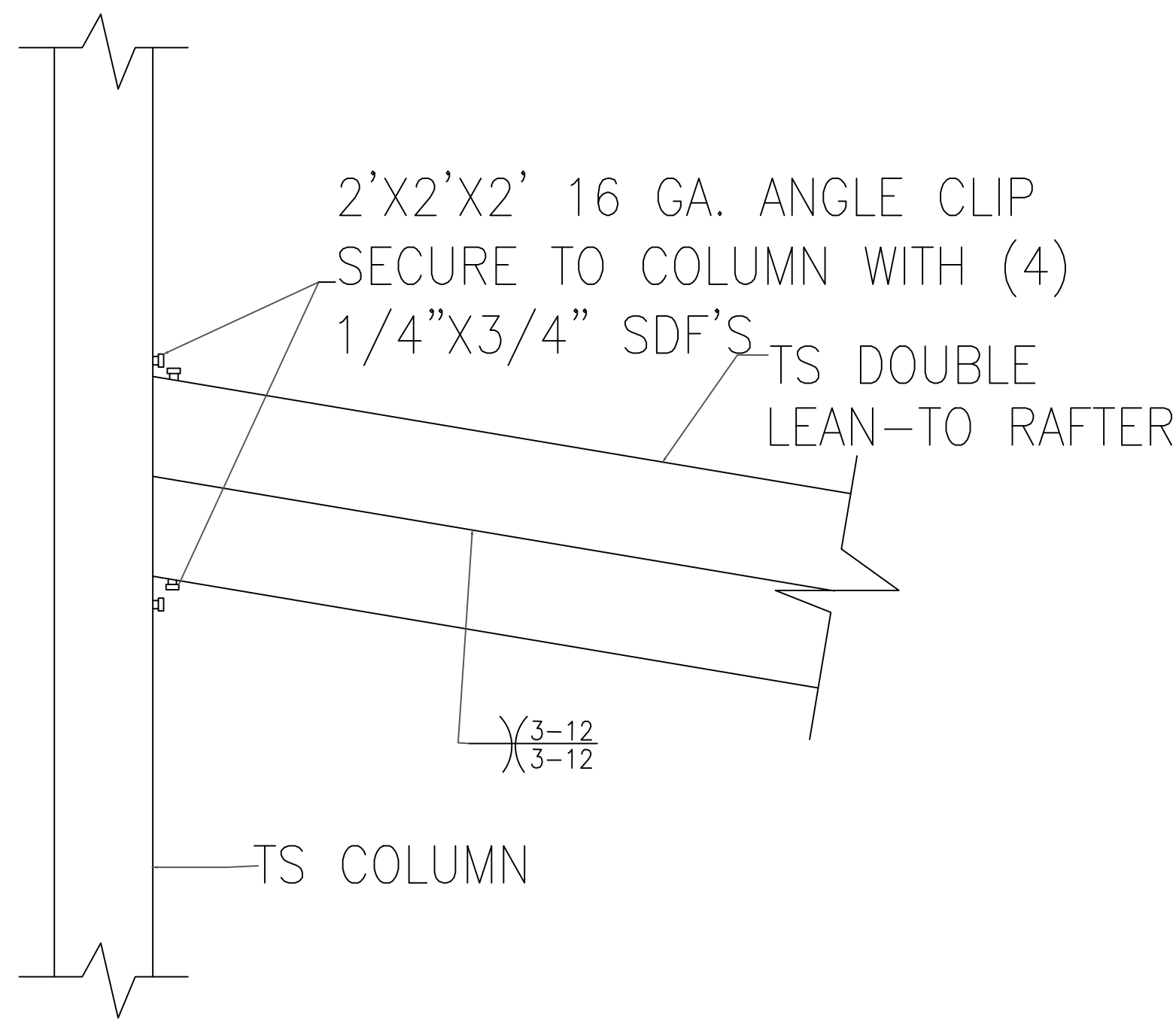


BOX EAVE RAFTER LEAN-TO OPTIONS

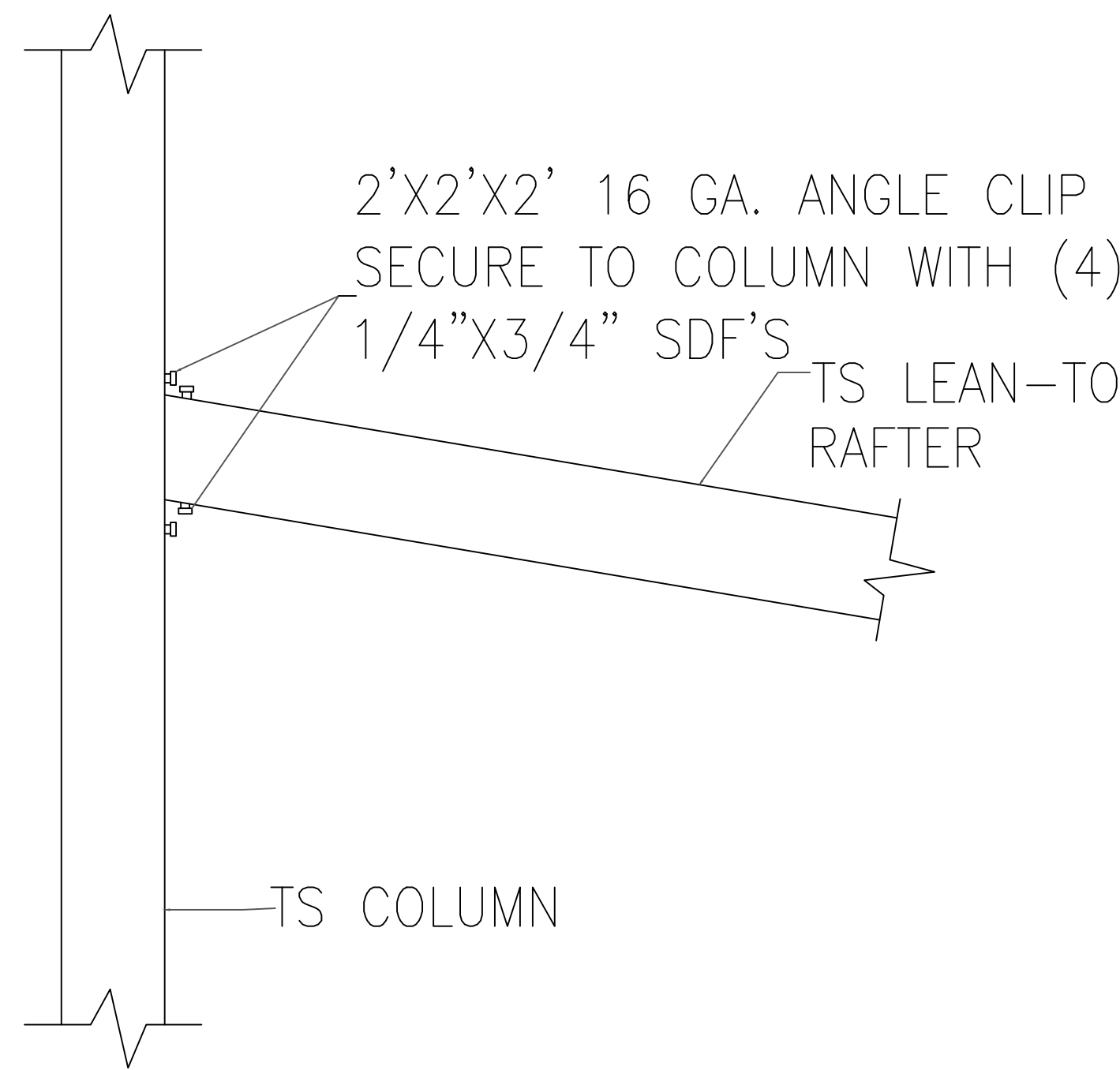


TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION

SCALE: NTS



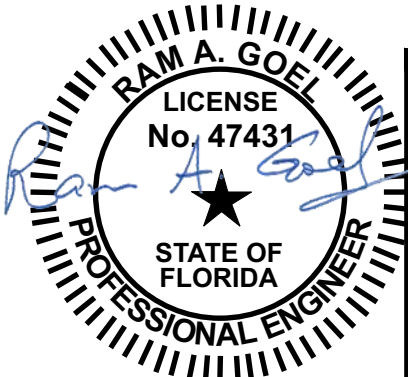
16A  
LEAN-TO RAFTER TO  
RAFTER POST CONNECTION  
DETAIL FOR WIDTHS  
12'-0" < TO ≤ 16'-0"  
SCALE: NTS



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

Ram Goel  
Digitally signed by Ram Goel  
DN: cn=Ram Goel,  
E=ram@sonex-fm.com,  
OU=Sonex FM LLC,  
O=Sonex FM LLC,  
L=Tallahassee, S=Florida, C=US  
Date: 2023.04.11  
11:13:49-0400'

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Job # S2080

Drawn By: K.D.

Checked By: S.G.

Issue Date: 04-10-21

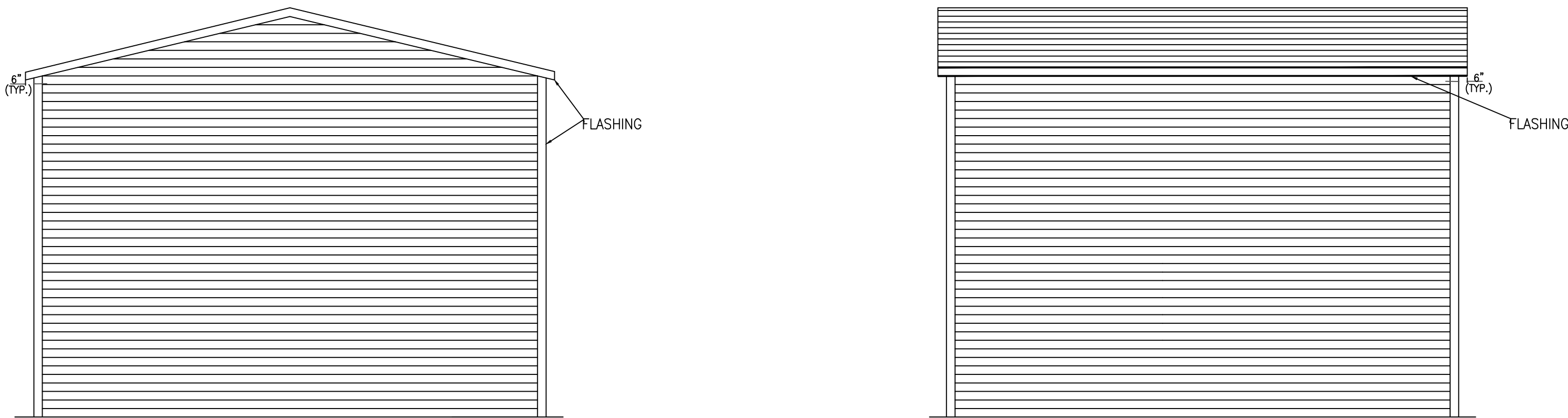
Revisions:		
No.	Date	Description
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Δ	11	
Δ	11	
Δ	11	

BOX EAVE RAFTER LEAN-TO OPTIONS

ELITE METAL MANUFACTURING, LLC  
10121 88TH TRACE  
LIVE OAK, FL 32060



BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION

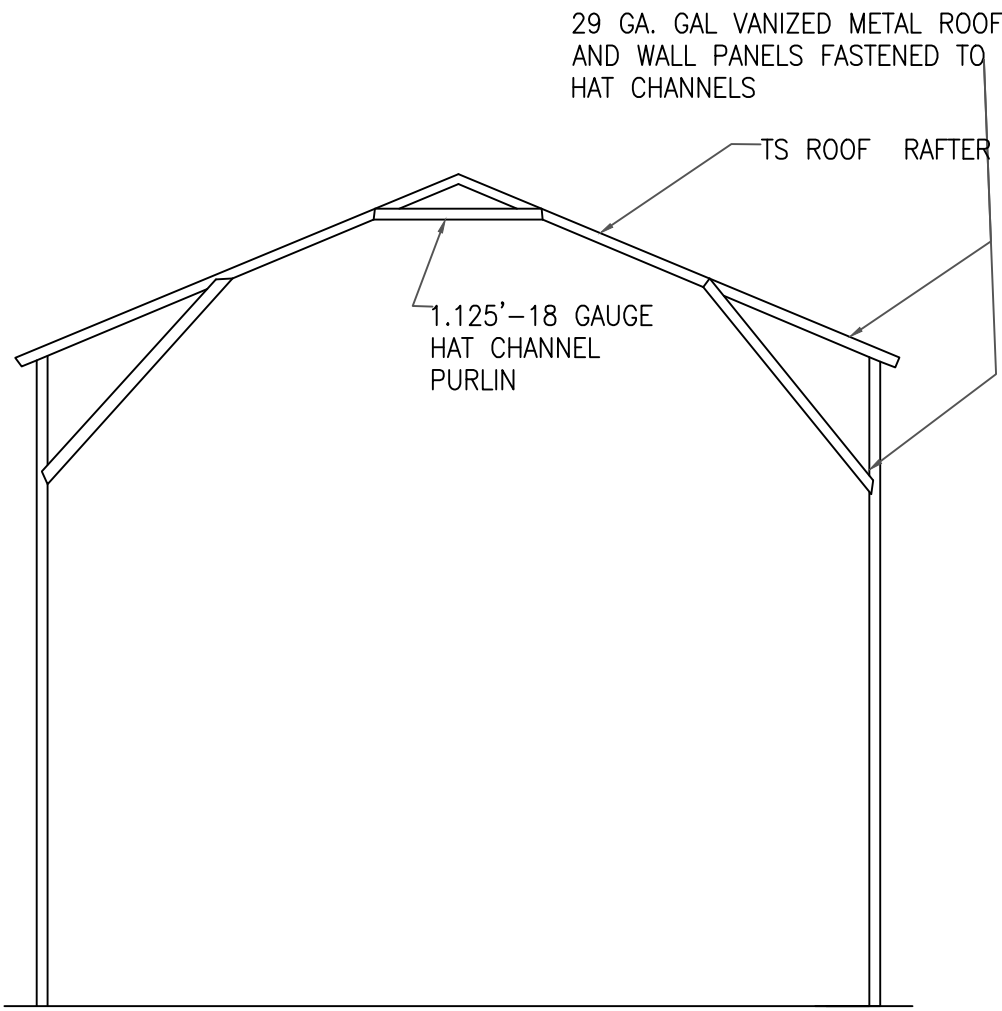


TYPICAL END ELEVATION  
VERTICAL ROOF/SIDING

SCALE: N.T.S.

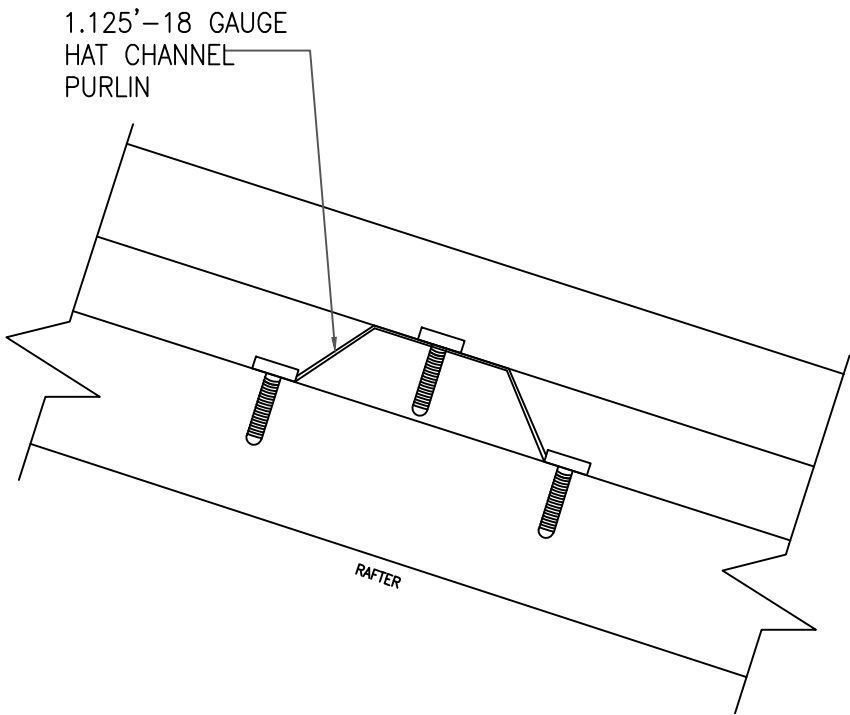
TYPICAL SIDE ELEVATION  
VERTICAL ROOF/SIDING

SCALE: N.T.S.



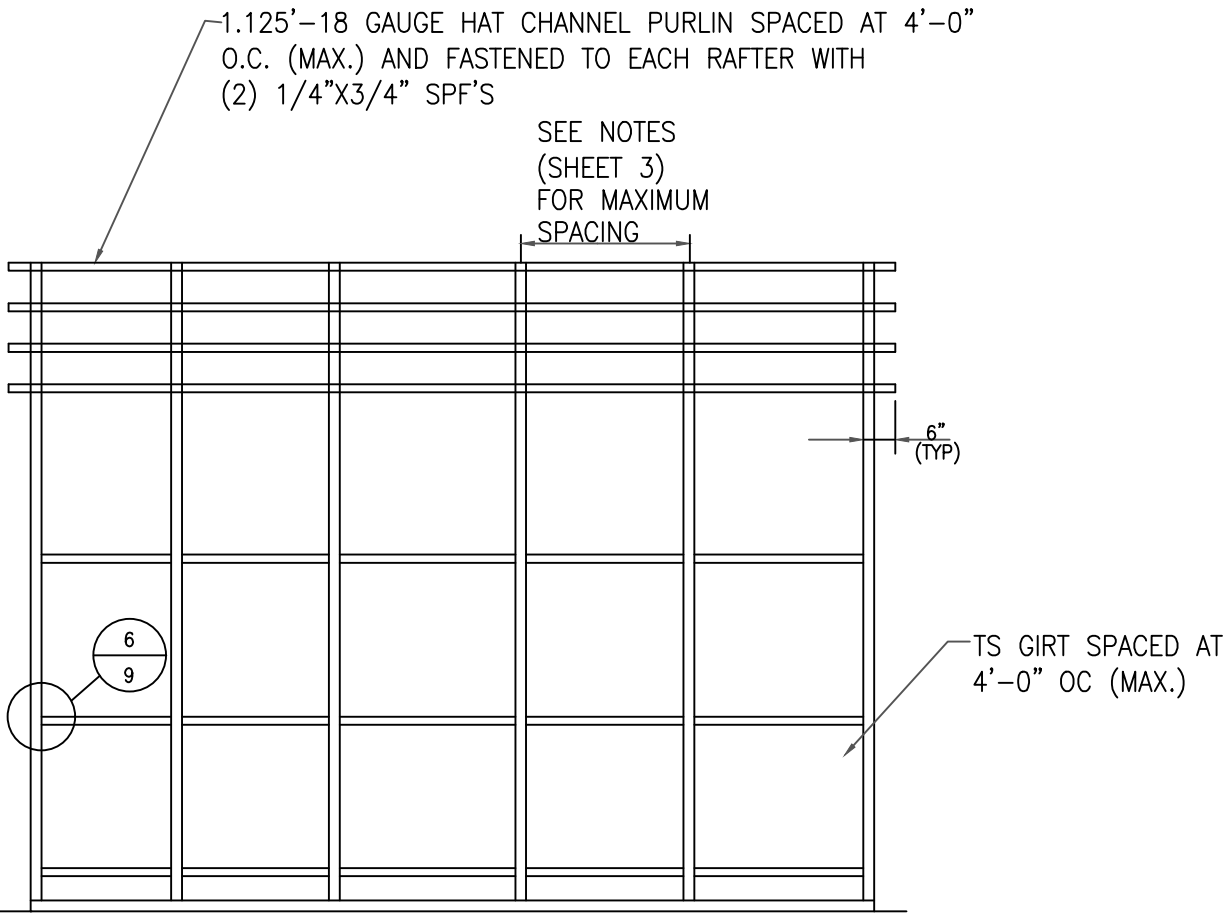
TYPICAL SECTION  
VERTICAL ROOF/SIDING OPTION

SCALE: N.T.S.



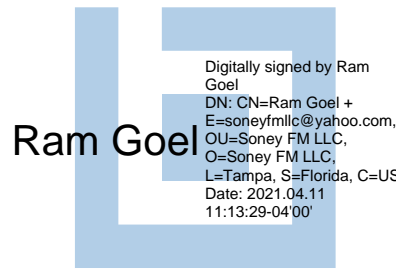
PANEL ATTACHMENT

(ALTERNATE FOR VERTICAL ROOF PANELS)  
SCALE: N.T.S.

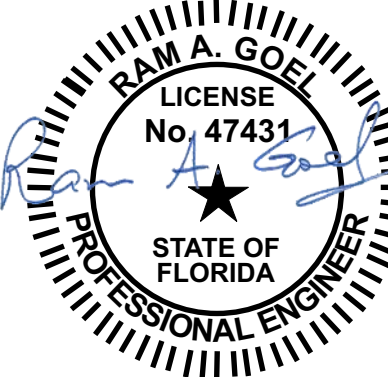


TYPICAL FRAME SECTION  
VERTICAL ROOF/SIDING OPTION

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Revisions:

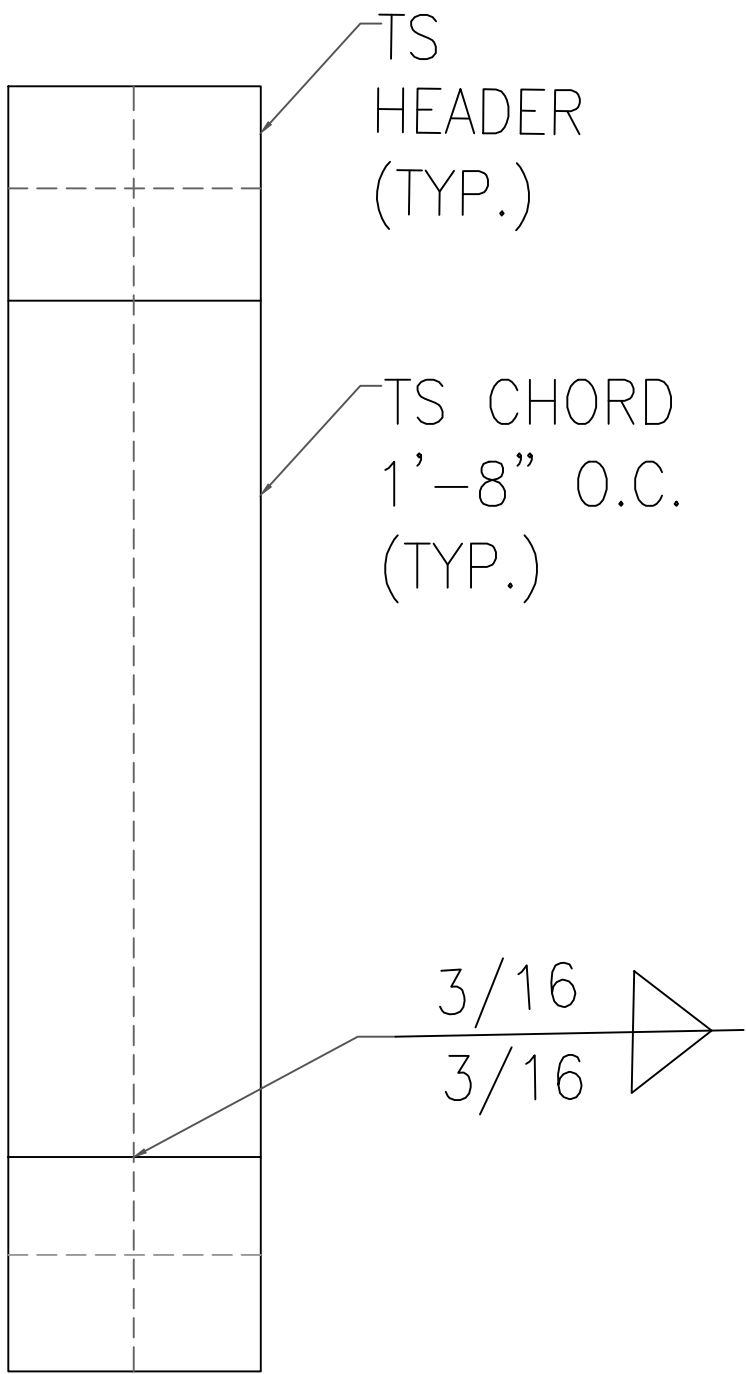
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Δ	//	
Δ	//	

BOX EAVE RAFTER VERTICAL  
ROOF/SIDING OPTION

ELITE METAL MANUFACTURING, LLC  
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LIVE OAK, FL 32060



OPTIONAL HEADER



HEADER DETAIL FOR DOOR  
OPENINGS 12'-0" < LENGTH ≤ 20'-0"  
SCALE: N.T.S.



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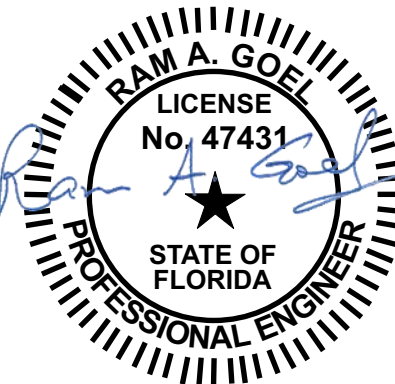
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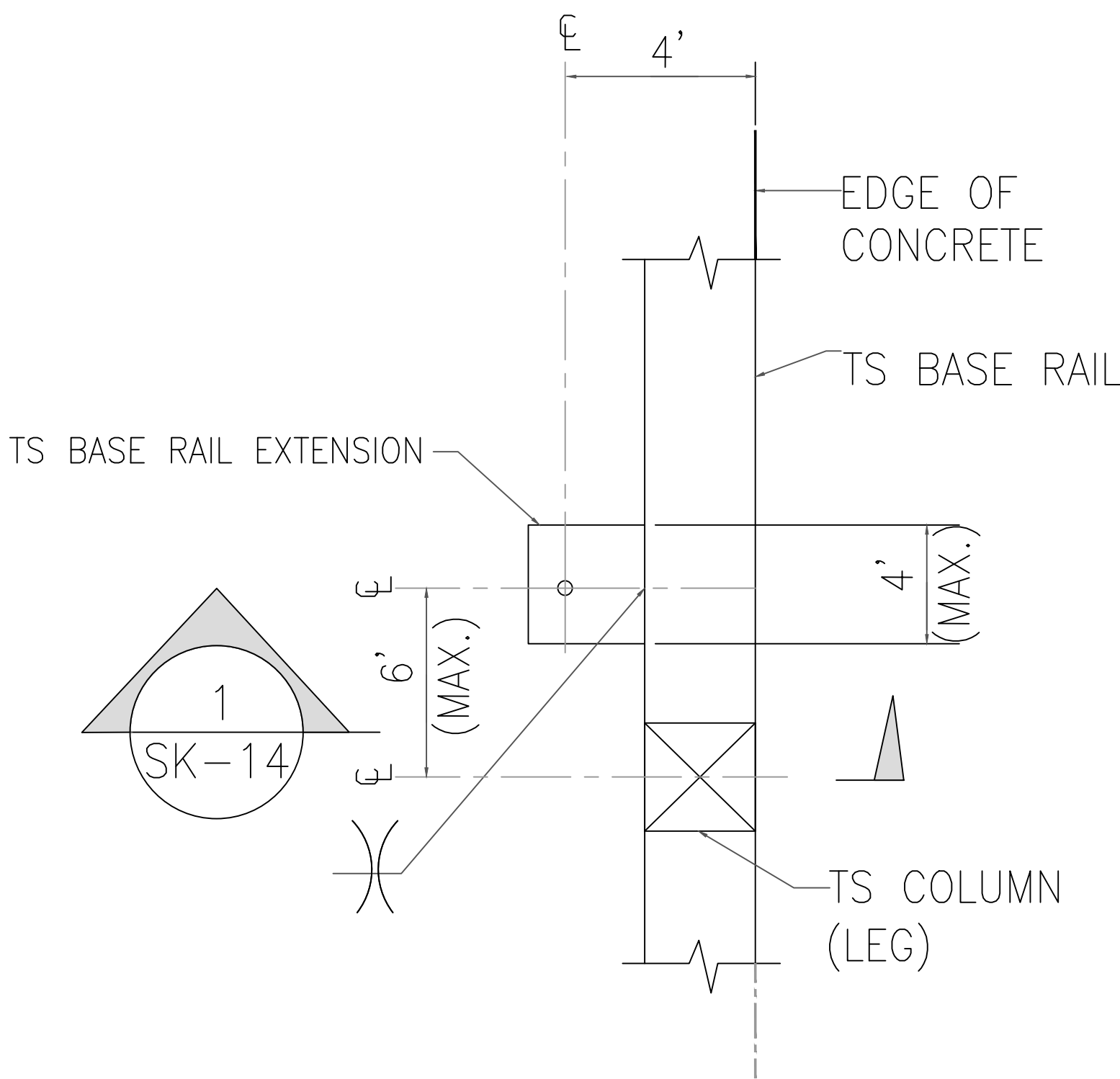
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OPTIONAL HEADER

ELITE METAL MANUFACTURING, LLC  
10121 88TH TRACE  
LIVE OAK, FL 32060

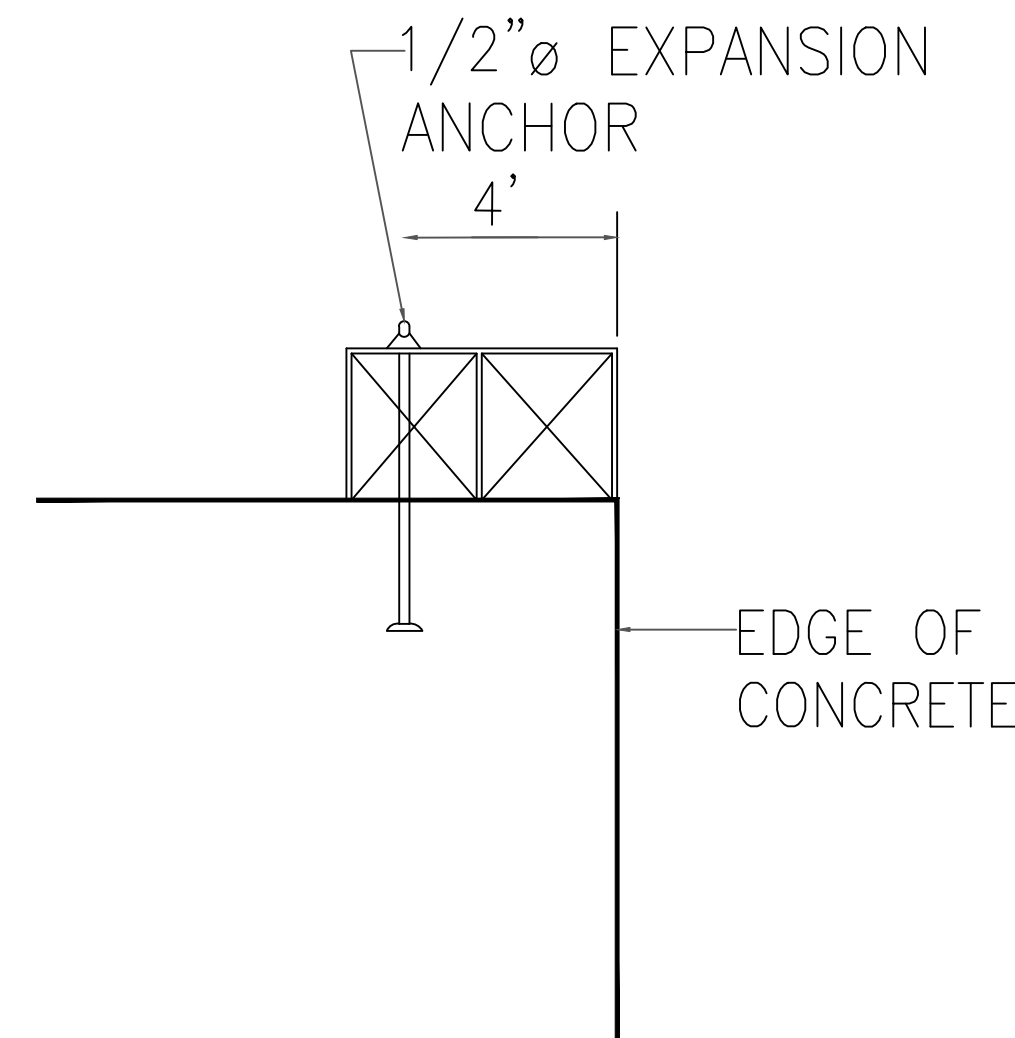


ADDITIONAL BASE RAIL ANCHORAGE OPTION

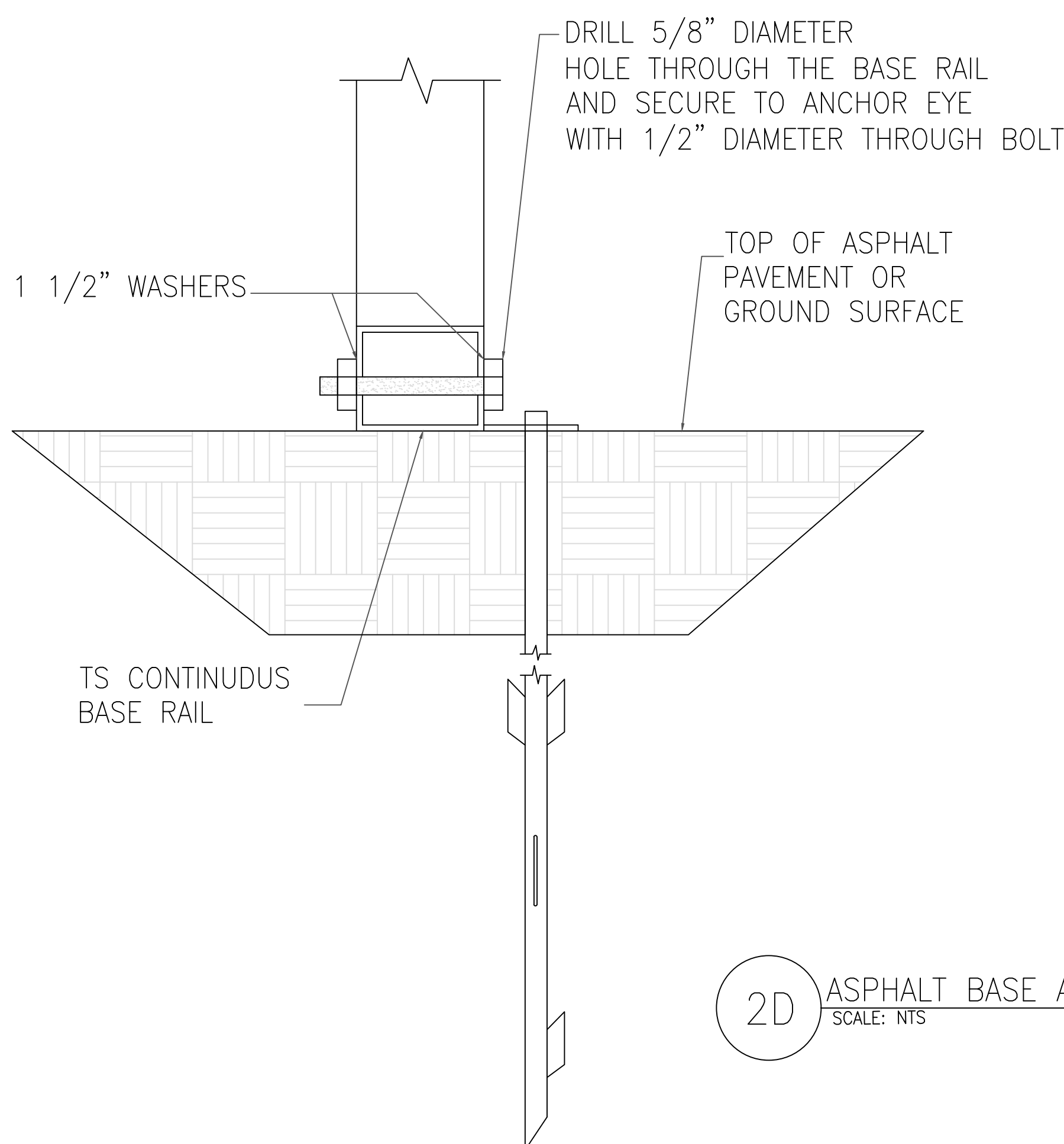
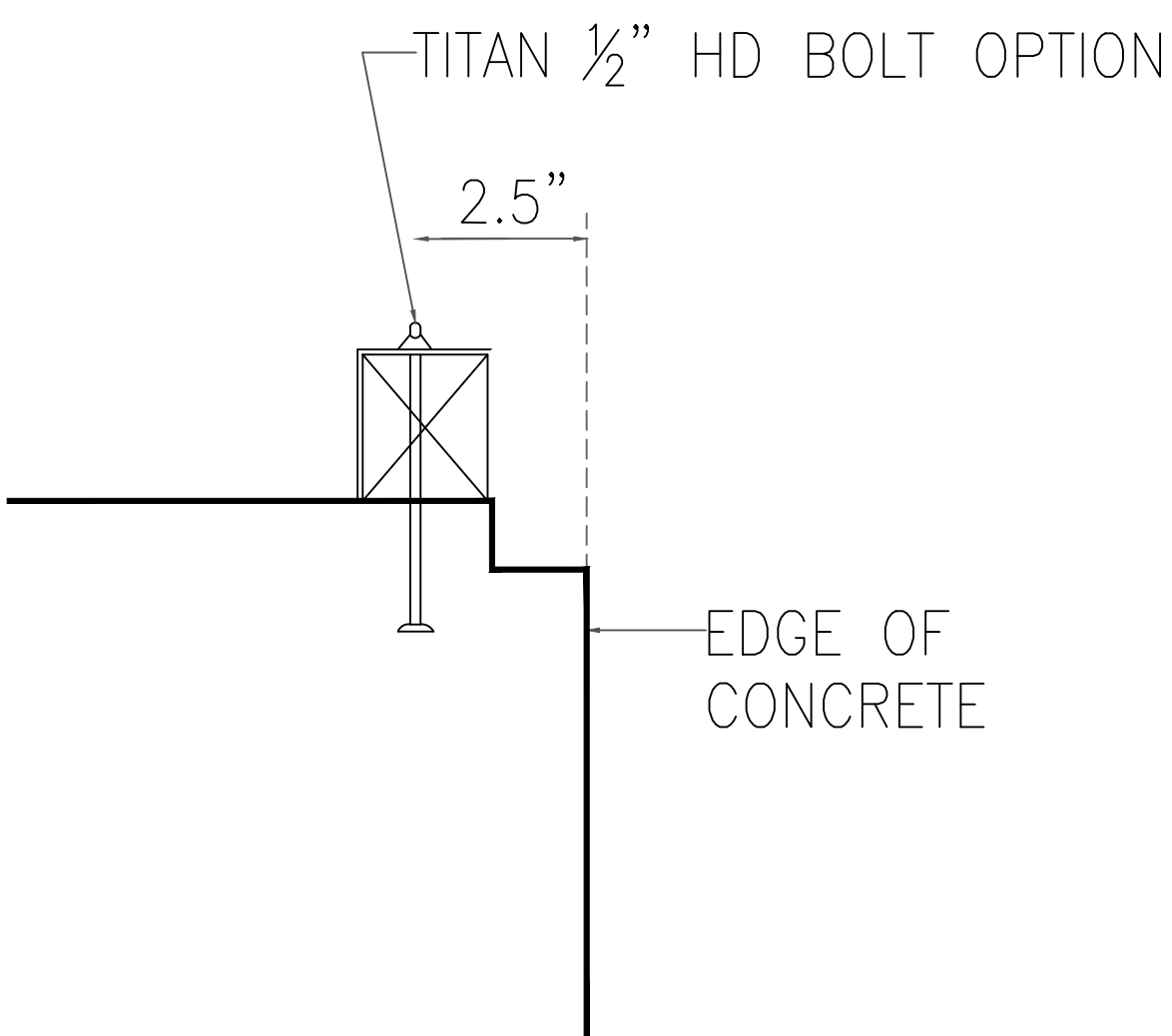


TYPICAL ANCHOR DETAIL WHEN  
BASE RAIL IS NEAR EDGE OF CONCRETE

SCALE: N.T.S.



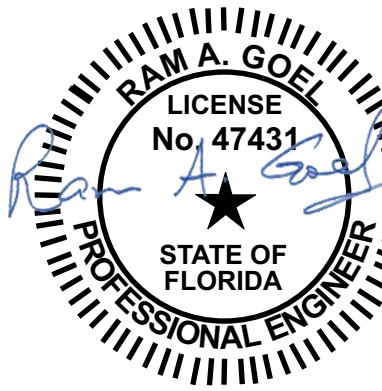
SECTION 1  
SCALE: N.T.S. SK-14



2D ASPHALT BASE ANCHORAGE  
SCALE: NTS

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Digitally signed by Ram  
Goel  
DN: cn=Ram Goel, o=Elite Metal Manufacturing, LLC,  
ou=Elite Metal Manufacturing, LLC,  
c=US  
Date: 2021.04.11  
10:52:58-0400

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

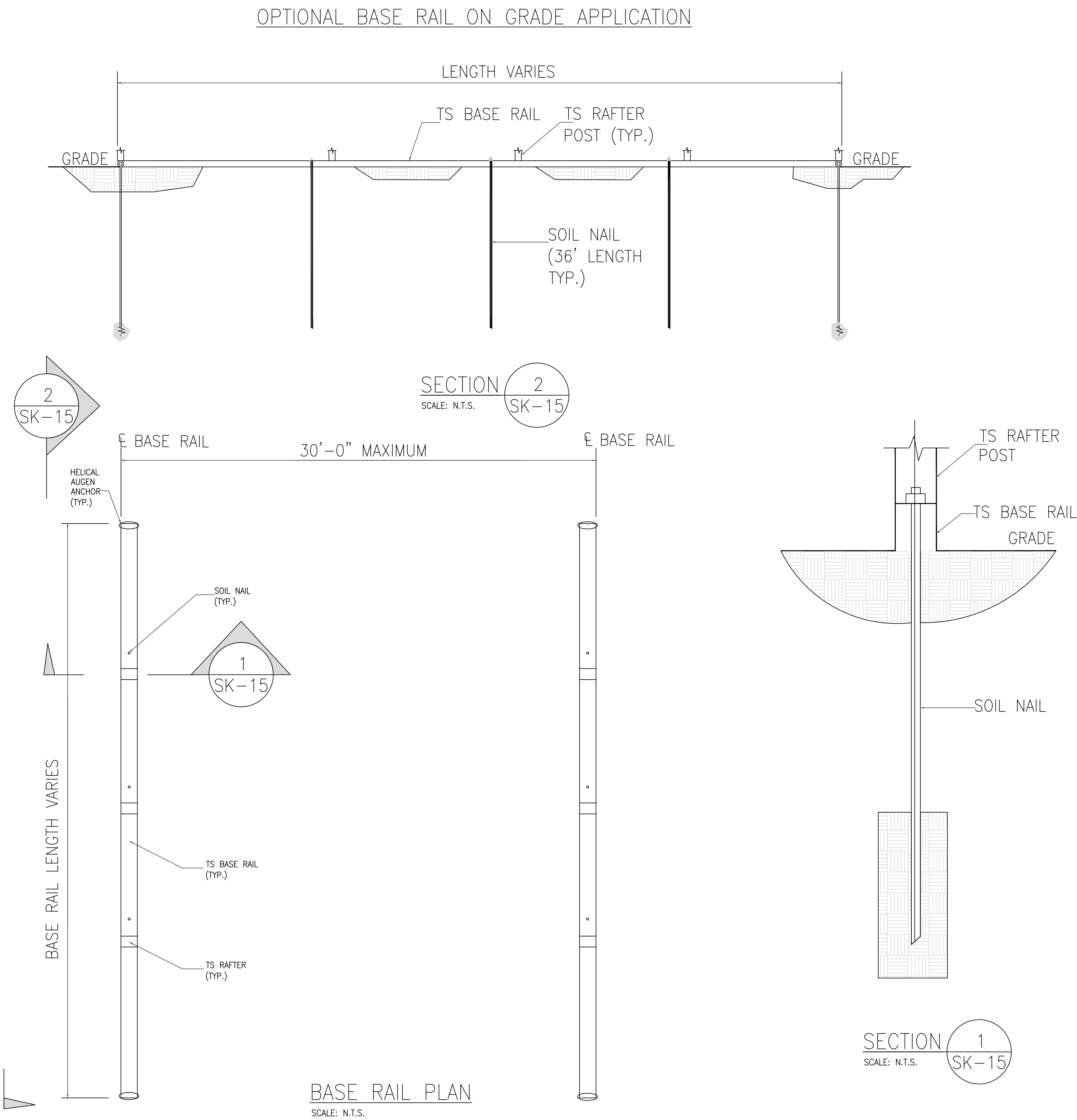
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Revisions:		
No.	Date	Description
1	04/10/21	Initial Design
2	04/10/21	Revised Design
3	04/10/21	Final Design
4	04/10/21	Final Design

ADDITIONAL BASE RAIL ANCHORAGE OPTION  
ELITE METAL MANUFACTURING, LLC  
10121 88TH TRACE  
LIVE OAK, FL 32060

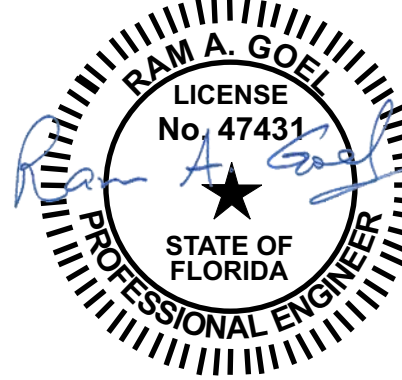


30LT OPTION

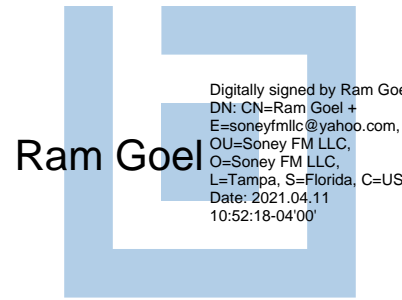
3 OF  
CRETE



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



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TAMPA, FL 33647  
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Job # S2080

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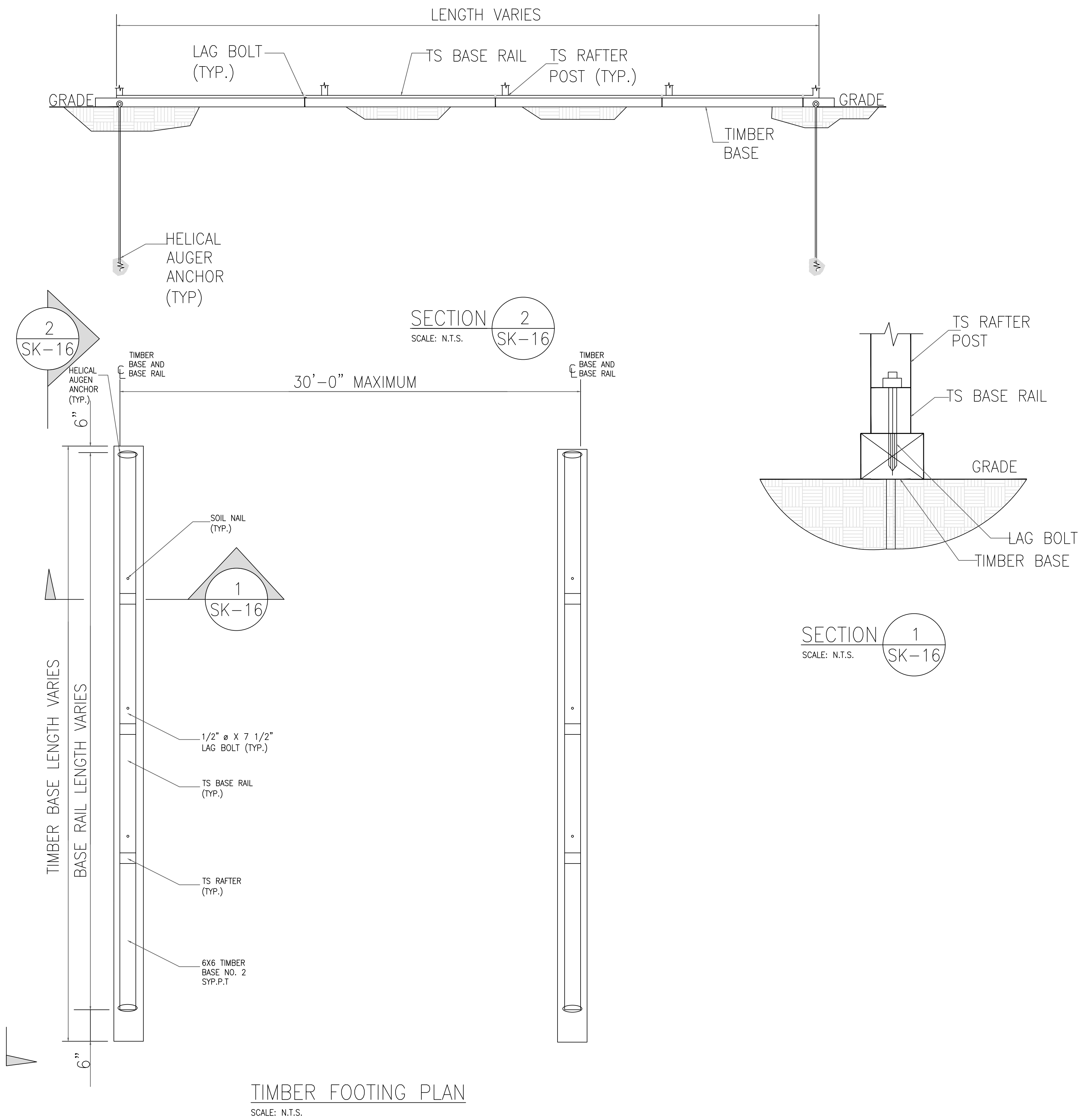
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Revisions:		
No.	Date	Description
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2	11/11	
3	11/11	
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OPTIONAL BASE RAIL ON GRADE APPLICATION

ELITE METAL MANUFACTURING, LLC  
10121 88TH TRACE  
LIVE OAK, FL 32060

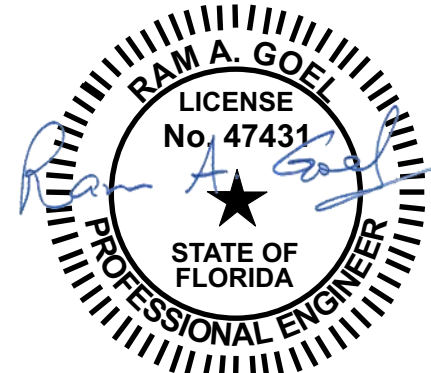


OPTIONAL BASE RAIL ON GRADE APPLICATION



TIMBER FOOTING PLAN  
SCALE: N.T.S.

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



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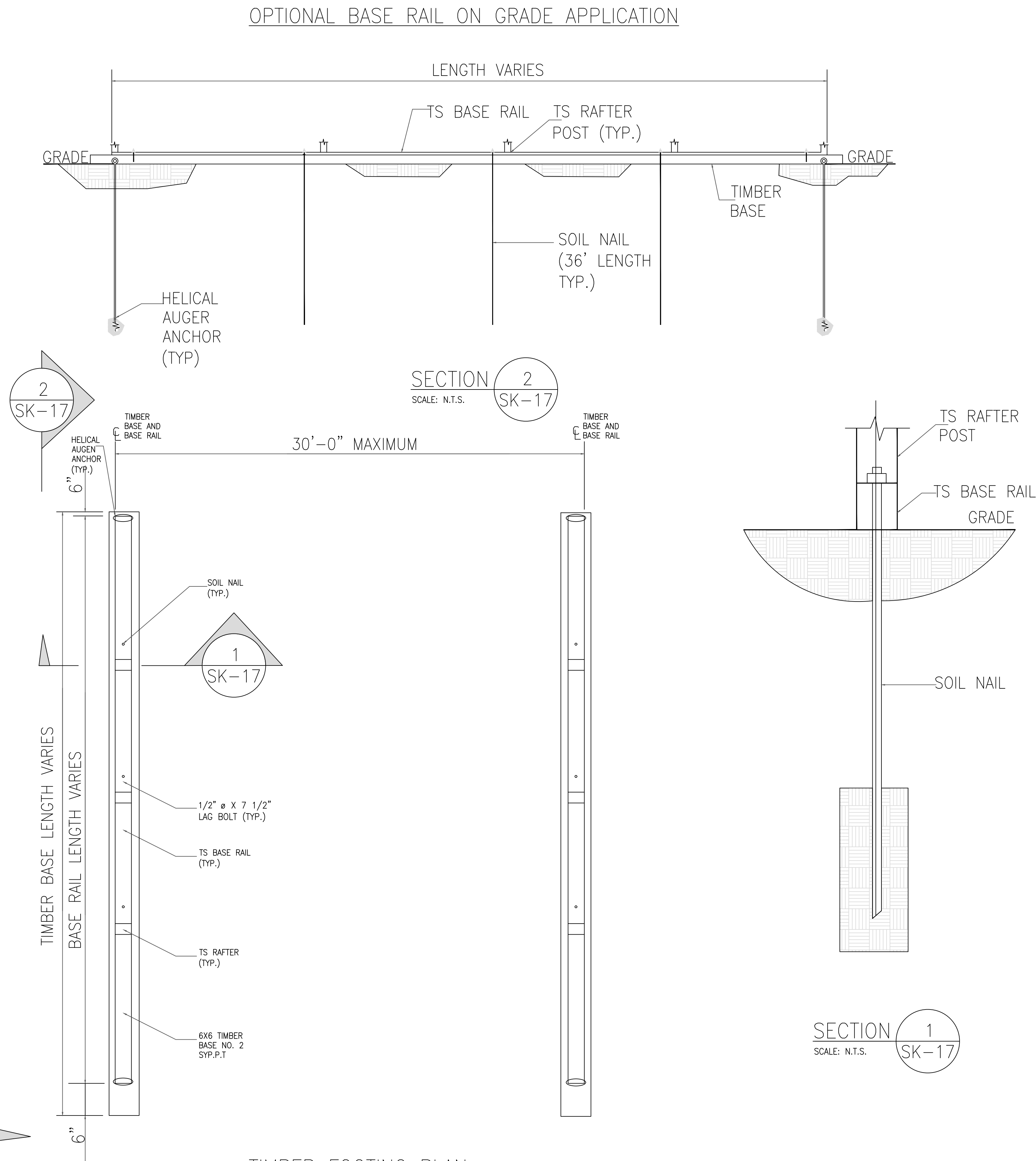
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Drawn By: K.D.  
Checked By: S.G.

Issue Date: 04-10-21		
Revisions:		
No.	Date	Description
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OPTIONAL BASE RAIL ON GRADE APPLICATION

ELITE METAL MANUFACTURING, LLC  
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LIVE OAK, FL 32060

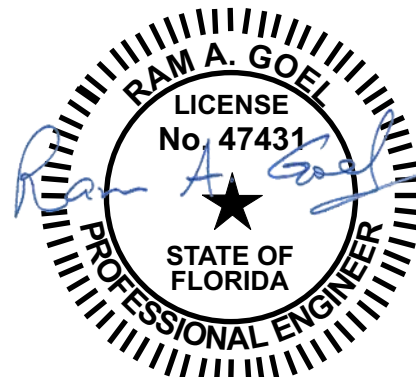




TIMBER FOOTING PLAN

SCALE: N.T.S.

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



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**Ram Goel**  
Digitally signed by Ram Goel  
DN: c=US, o=Elite Metal Manufacturing, LLC, ou=Elite Metal Manufacturing, LLC, email=ramgoel@elite-metal.com, cn=Ram Goel  
Date: 2021.04.11 10:51:39-0400

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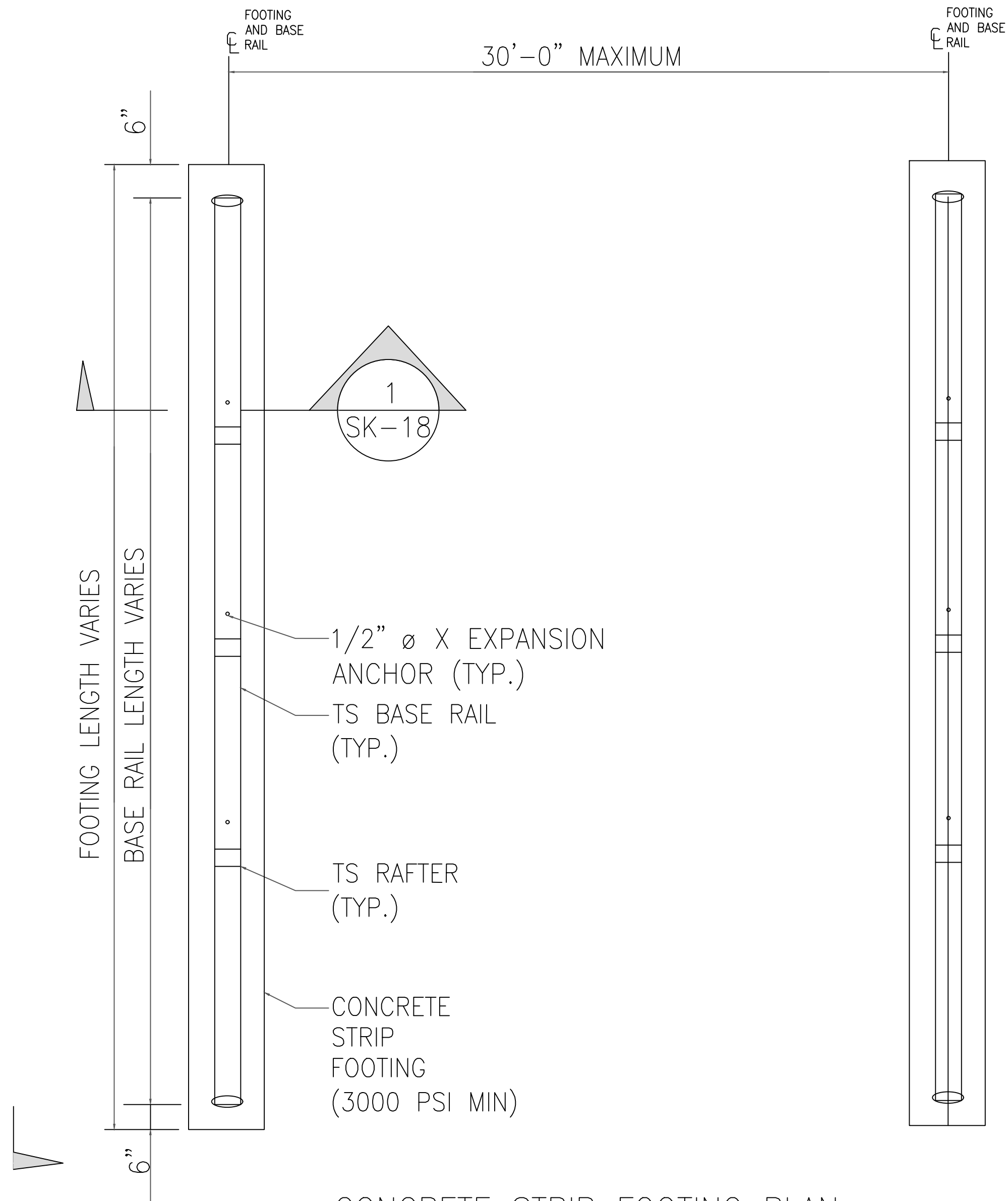
Issue Date: 04-10-21		
Revisions:		
No.	Date	Description
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OPTIONAL BASE RAIL ON GRADE APPLICATION

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LIVE OAK, FL 32060

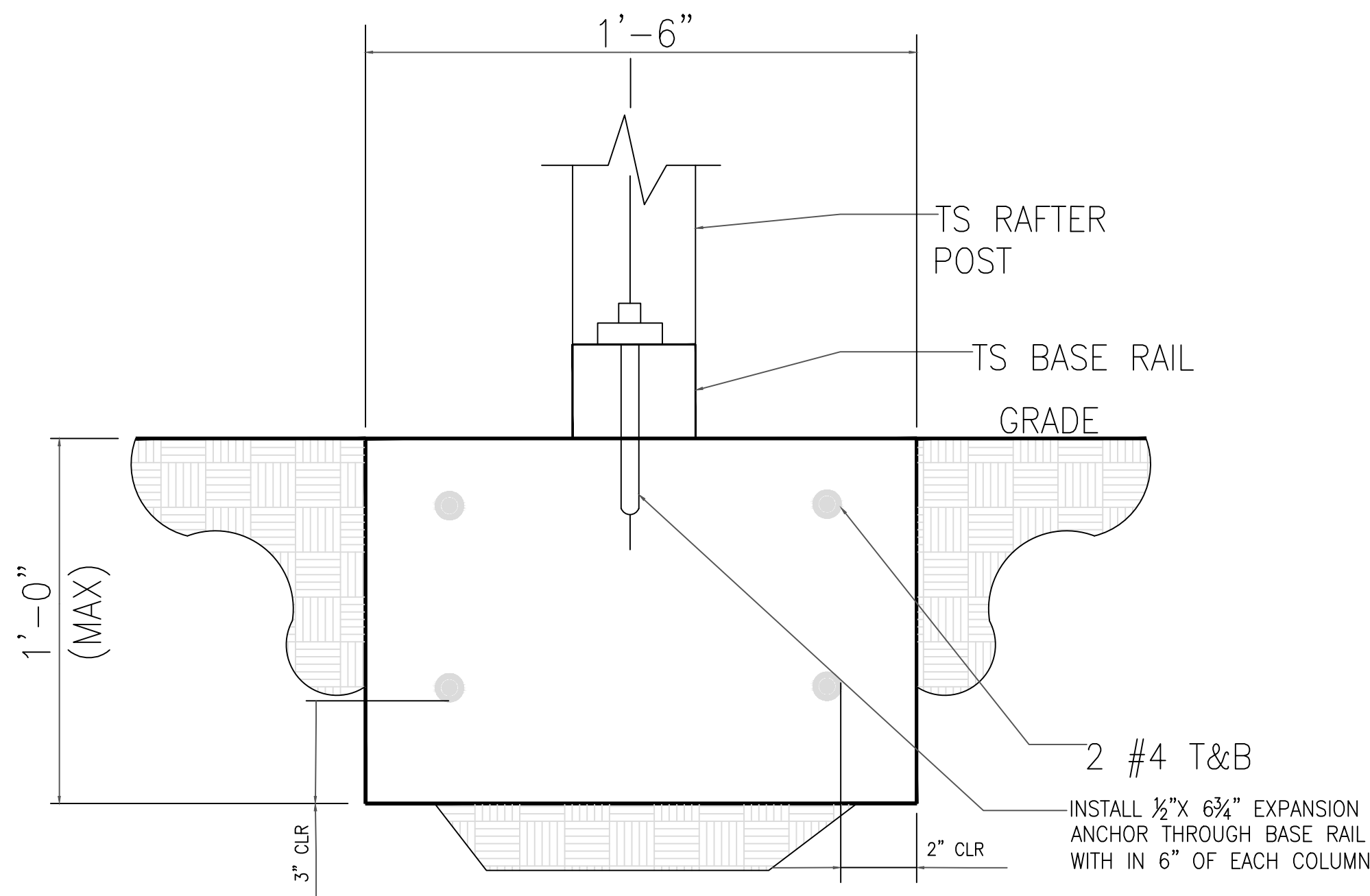


OPTIONAL CONCRETE STRIP FOOTING



CONCRETE STRIP FOOTING PLAN

SCALE: N.T.S.



SECTION 1  
SK-18

SCALE: N.T.S.

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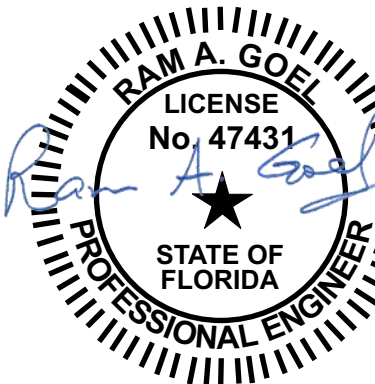
Revisions:		
No.	Date	Description
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OPTIONAL CONCRETE STRIP FOOTING

ELITE METAL MANUFACTURING, LLC  
10121 88TH TRACE  
LIVE OAK, FL 32060

Digitally signed by Ram  
Goel  
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