

TABLE 1
SUBWRAFTER FRAME, END POST, GROUND ANCHOR AND PANEL FASTENER SPACING SPECIFICATIONS

RISK CATEGORY	WIND EXPOSURE CATEGORY	ULTIMATE WIND SPEED (MPH)	NOMINAL WIND SPEED (MPH)	MAXIMUM RAFTER/BOW AND END POST SPACING (FEET)	AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR PURLINS, AND POSTS OR GIRTS (INCHES)	
					INTERIOR BOWS/RAFTERS	END BOWS/RAFTERS
I, II, III, or IV	B, C, or D	115 TO 150	99 TO 116	5.0	6	6
		151 TO 180	117 TO 139	4.0	6	6

NOTES: 1. SPECIFICATIONS APPLICABLE TO 20 OR 26 GAUGE METAL PANELS FASTENED DIRECTLY TO 14-0.13 GAUGE STEEL TUBE BOW FRAMES.
2. FASTENERS CONSIST OF 1/2" DIA. SELF-DRILLING SCREWS WITH CONTROL SEAL WASHERS.
3. SPECIFICATIONS FOR WIND LOADS ARE BASED ON MEAN ROOF HEIGHT OF 20 FEET OR LESS, AND ROOF SLOPES OF 14° (3.12 PITCH). SPACING REQUIREMENTS FOR OTHER ROOF SLOPES MAY VARY.
4. GROUND ANCHOR REQUIREMENTS ARE 1 @ EACH CORNER AND ONE EVERY OTHER INTERIOR BOW/RAFTER POST LOCATION, AT MAXIMUM OF 10' O.C., AND BOTH SIDES OF OPENINGS WHERE BASE RAIL IS ABSENT.
5. GROUND ANCHORS ARE NOT REQUIRED WITH CONCRETE SLAB CONSTRUCTION.

NOTES

1. SPECIFICATIONS APPLICABLE TO 20 OR 30 GAUGE METAL PANELS FASTENED DIRECTLY TO 4x8x16 GAUGE STEEL TUBE BOW FRAMES.
2. FASTENERS CONSIST OF "A" TYPE SELF-DRILLING SCREWS WITH CONTROL SEAL WASHER.
3. SPECIFICATIONS APPLICABLE ONLY FOR MEAN ROOF HEIGHT OF 20 FEET OR LESS, AND ROOF SLOPES OF 14" (3.12 HORIZONTAL TO 12 VERTICAL) SPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY VARY.
4. GROUND ANCHOR REQUIREMENTS ARE: (A) EACH CORNER AND ONE EVERY OTHER INTERIOR BOWRAFTER POST LOCATION, AT MAXIMUM OF 10' O.C., AND BOTH SIDES OF OPENINGS WHERE BASE RAIL IS ABSENT.
5. GROUND ANCHORS ARE NOT REQUIRED WITH CONCRETE SLAB CONSTRUCTION.

WINDOW AND DOOR NOTE

EXTERIOR WINDOWS AND GLASS DOORS SHALL BE TESTED BY AN APPROVED INDEPENDENT TESTING LABORATORY, AND BEAR AN IAMA OR WMA OR OTHER APPROVED LABEL IDENTIFYING THE MANUFACTURER, PERFORMANCE CHARACTERISTICS AND APPROVED PRODUCT EVALUATION ENTITY TO INDICATE COMPLIANCE WITH THE REQUIREMENTS OF THE FOLLOWING SPECIFICATION:

ANSI Z39.48-1968 Z39.48-1968 Z39.48-1968

THE CONSTRUCTION SHALL BE TESTED IN ACCORDANCE WITH ASTM E 530, STANDARD TEST METHODS FOR STRUCTURAL PERFORMANCE OF EXTERIOR WINDOWS, DOORWAYS, AND WALLS, AND SHALL BE DESIGNED TO WITHSTAND WIND LOADS IN ACCORDANCE WITH THE FOLLOWING:

DESIGN WAS DONE IN ACCORDANCE WITH THE 2020 FLORIDA BUILDING CODE 7TH EDITION (FBC) 2020
 LATEST AMENDMENT'S 2006 INTERNATIONAL BUILDING CODE (IBC), 2008 IBC AND 2012 IBC.

GENERAL NOTES:

1. ALL STEEL SHALL BE 30 103 STEEL.
2. FASTEN MASTER ROOF AND PANEL PANELS TO FRAMING WITH 14" X 2 1/2" SELF DRILLING FASTENERS WITH CONTROL SEAL WASHER & O-RING GASKET.
3. ALL FIELD CONNECTIONS SHALL BE $\frac{1}{2}$ " DIA. SELF DRILLING SCREWS.
4. ALL SHOP CONNECTIONS SHALL BE WELDED.
5. CONCRETE EXPANSION ANCHORS SHALL BE 1/2" DIA. ANCHOR BOLTS WITH 12" EMBEDMENT. ANCHORS SHALL BE 14" DIA. OR EQUIVALENT. GROUND ANCHOR REQUIREMENTS ARE AS EACH CONCRETE JOINT OTHER INTERIOR PARTS ARE TO BE LOCATED WHERE BASEBALL IS ABSENT. GROUND ANCHORS ARE NOT REQUIRED FOR CONCRETE FOOTING AND/OR CONCRETE BASE CONSTRUCTION.
6. POST TOPS BRACING SHALL BE ON EVERY POST/RAFTER CONNECTION, EXCEPT FOR END WALLS.

DR. KAM A. COH, PH.D., P.E.
F.P.E. 47431.
SONEY PM LLC
CORY LAKE PROFESSIONAL CENTER
10329 CROSS CREEK BLVD., SUITE P
TAMPA, FL 33647
Ph: 727-420-4796
Fax: (813) 972-2846
www.soneytmllc.com

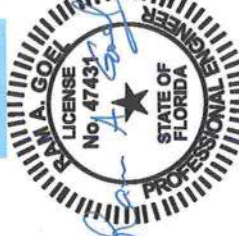
Job # 2173
Drawn By: S.K.
Checked By: R.G.

Issue Date: 08-18-21	
Revisions:	Description
No.	Date
1	11
2	11
3	11
4	11

PREFABRICATED UTILITY STRUCTURE

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

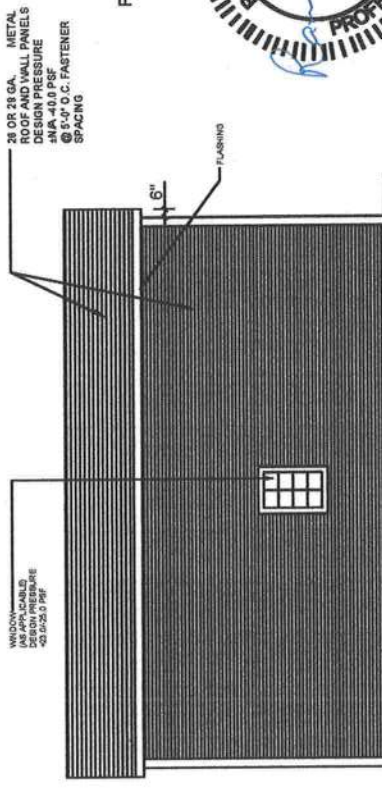
Ram Goel
President, Goel Group
Goel Group, Inc.
Goel Group, Inc.
Goel Group, Inc.
Goel Group, Inc.



THE FOLLOWING IS COMPLIANT TO THE FLORIDA
BUILDING CODE 2020, 7TH EDITION AND ASCE 7-16 FOR
SEISMIC CATEGORY OF 1B0 MBU

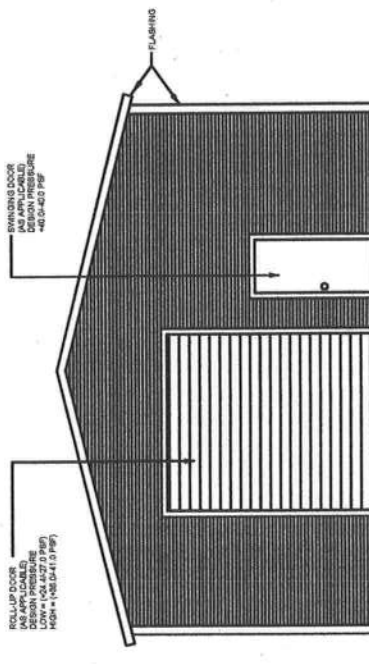
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TYPICAL SIDE ELEVATION-HORIZONTAL ROOF

SCALE: NOT TO SCALE



TYPICAL END ELEVATION-HORIZONTAL ROOF

SCALE: NOT TO SCALE

DR. RAM A. GOEL, P.E., P.D., P.E.
F.P.E. 47431
SONEY FM LLC
10329 CROSS CREEK BLVD., SUITE P
KNOXVA, TN 37602
P: 277-420-4796
F: (615) 972-2846
www.soneyfmllc.com

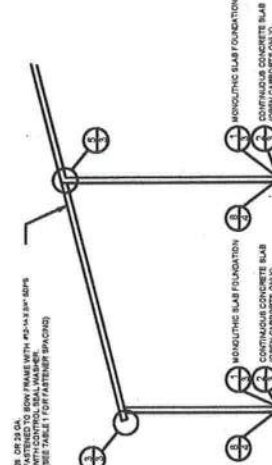
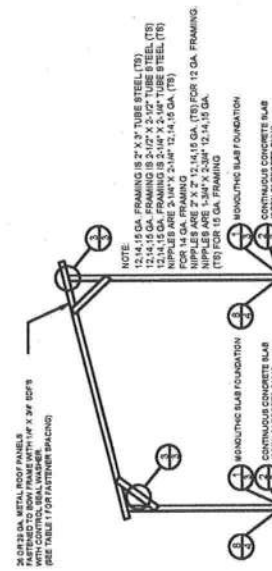
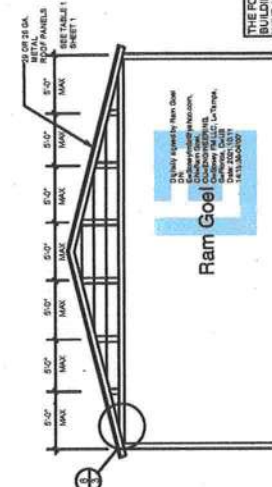
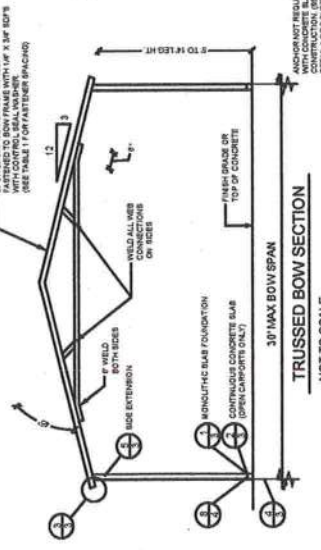
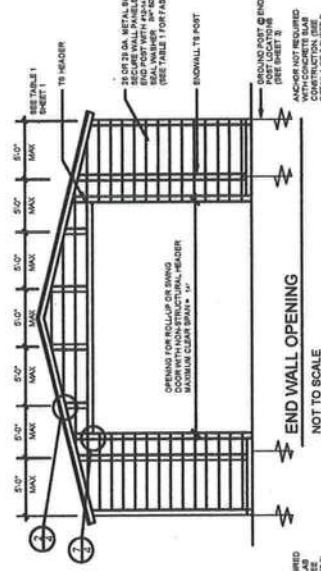
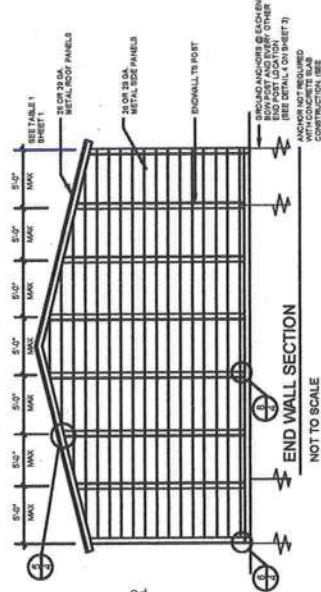
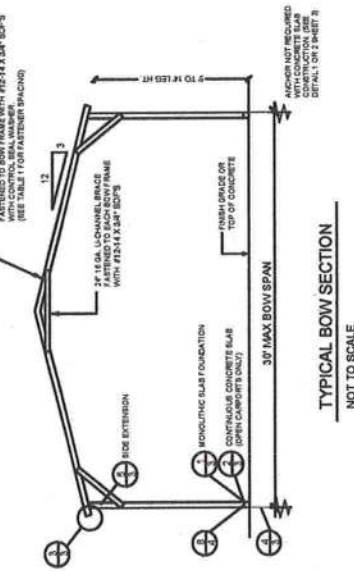
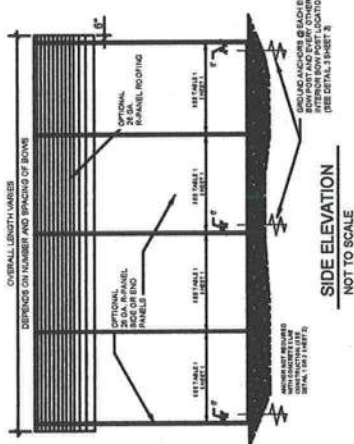
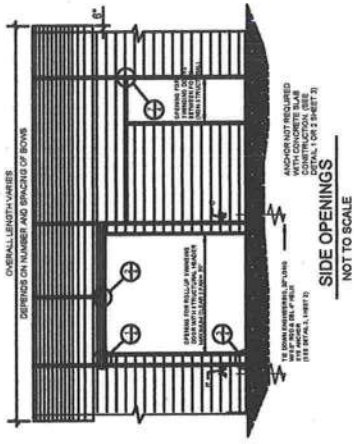
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Drawn By: S.K.
Checked By: R.G.

Issue Date: 08-18-21

Rev.	Date	Description
1	8/18/21	Initial
2	8/18/21	Revised
3	8/18/21	Revised
4	8/18/21	Revised
5	8/18/21	Revised
6	8/18/21	Revised
7	8/18/21	Revised
8	8/18/21	Revised
9	8/18/21	Revised
10	8/18/21	Revised

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

2



THE FOLLOWING IS COMPLIANT TO THE FLORIDA
MANUFACTURED HOUSING ACT AND ASCE 7-16 FOR
WIND LOADS OF 130 MPH.

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DR. RAM A. GOEL, PH.D., P.E.
F.P.E. 47431
SONEY FM LLC
10329 CROSS CREEK BLVD., SUITE P
TAMPA, FL 33617
PAC (813) 972-2846
WWW.SONEYFM.COM

Job # 2173
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Checked By: R.G.

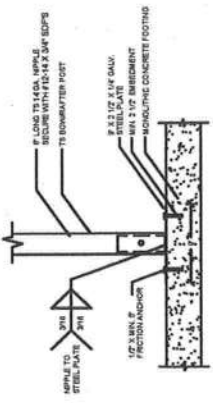
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No.	Date	Description
1	08-18-21	Initial Issue
2	08-18-21	Revisions
3	08-18-21	Revisions
4	08-18-21	Revisions
5	08-18-21	Revisions
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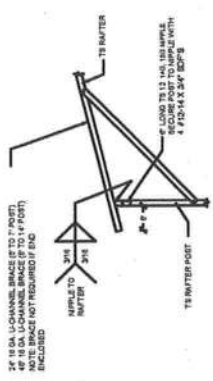
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ELITE METAL MANUFACTURING, LLC
10121 88TH TRACE
LIVE OAK, FL 32060

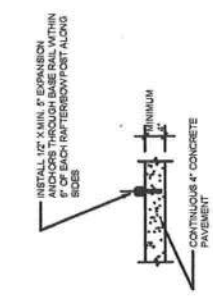
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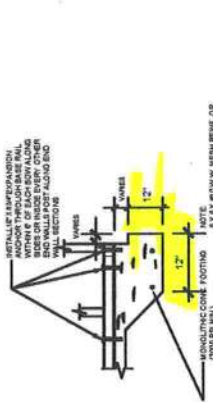
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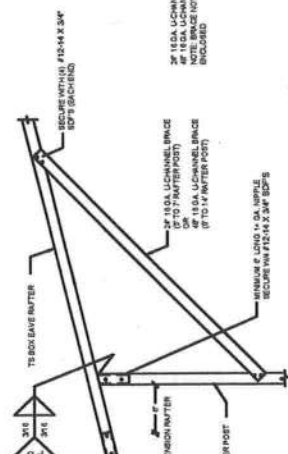
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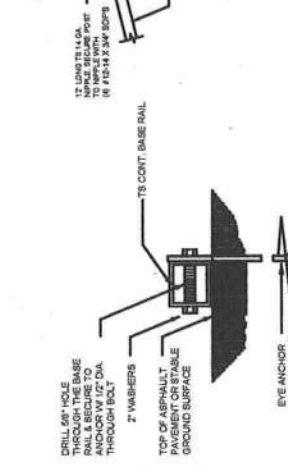
3. BOX EAVE RAFTER/CORNER POST DETAIL
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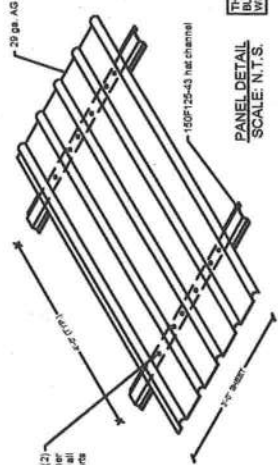
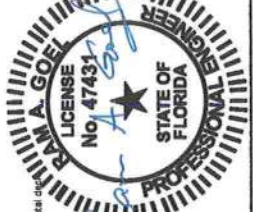
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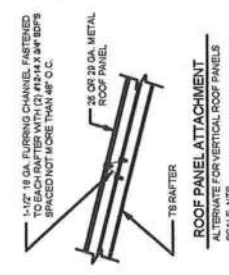
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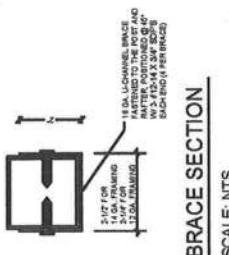
6. GABLE RAIL TO RAFTER POST CONNECTION DETAIL
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7. PANEL DETAIL
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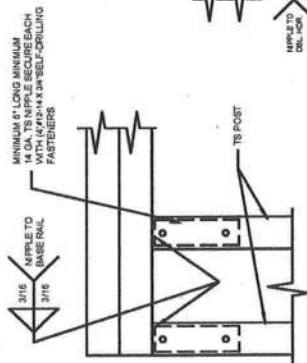
8. ROOF PANEL ATTACHMENT
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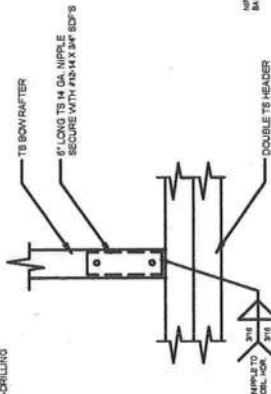
9. BRACE SECTION
SCALE: NTS

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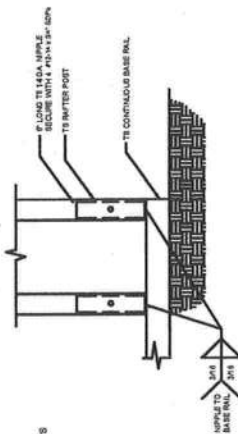
THE FOLLOWING IS COMPLIANT TO THE FLORIDA
BUILDING CODE WITH EDITION AND ASCE 7-16 FOR
WIND LOADS OF 130 MPH.



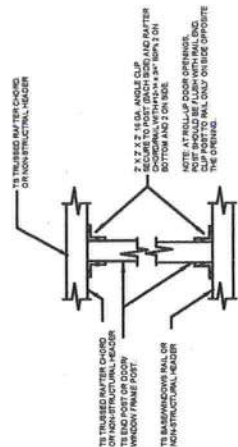
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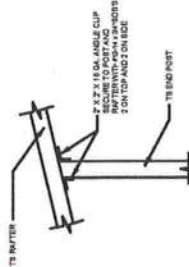
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BASE RAIL CONNECTION DETAIL
SCALE: NTS



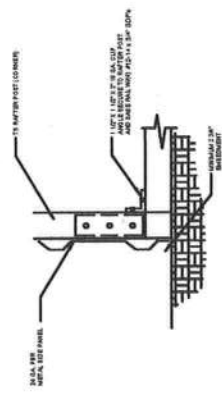
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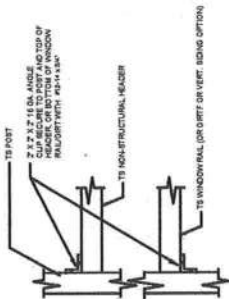
4 POST TO RAIL, TRUSS CHORD, OR NON-STRUCTURAL HEADER CONN. DETAIL



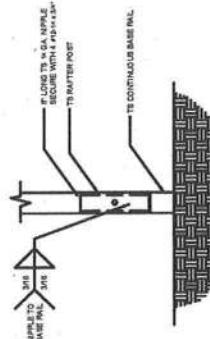
5 END POST/RAFTER CONN. DETAIL
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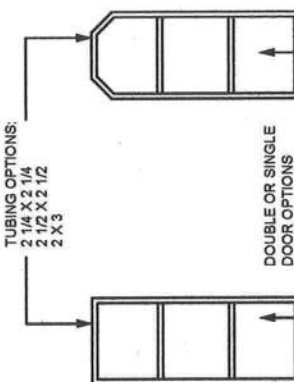
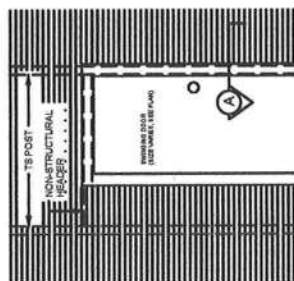
6 END POST/BASE RAIL CONN.
SCALE: NTS



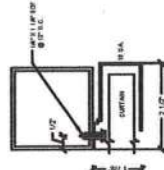
7 NON-STRUCTURAL HEADER, WINDOW RAIL, OR GIRT TO POST CONN. DETAIL
SCALE: NTS



8 POST/BASE RAIL CONN. DETAIL
SCALE: NTS



SECTION THROUGH ROLL UP
DOOR HEADER



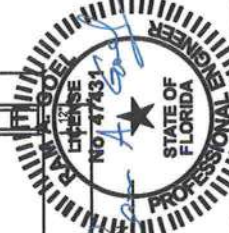
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THE FOLLOWING IS COMPLIANT TO THE FLORIDA BUILDING CODE 2020, 7TH EDITION AND ASCE 7-16 FOR WIND LOADS OF 180 MPH

[illegible]

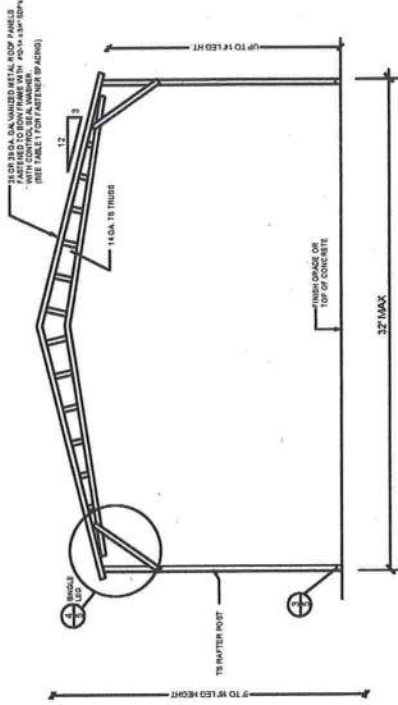
Ram Goel



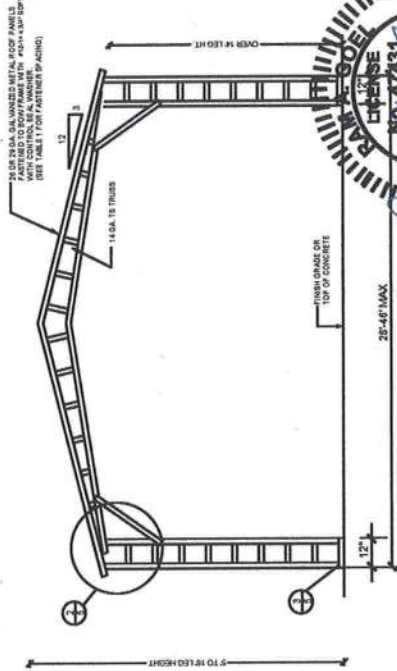
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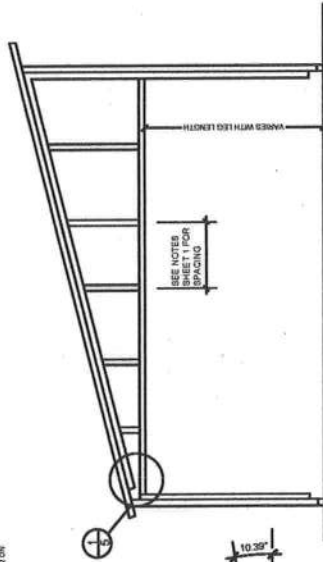
Ram Goel
Digital Signature
Signature: Ram Goel
Email: ramgoel@sonet.com
Company: Soney FM LLC
Title: Professional Engineer
Date: 2021-08-18
1415523-5407



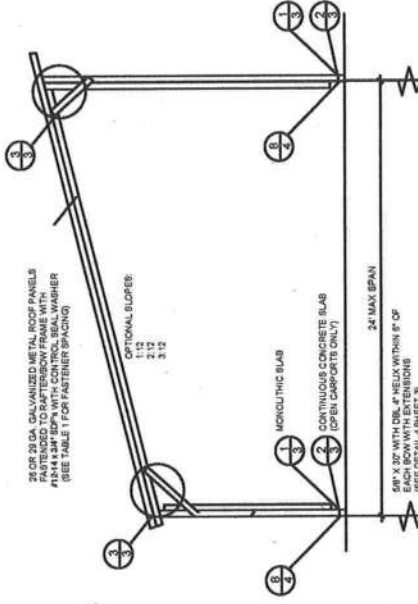
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NOT TO SCALE



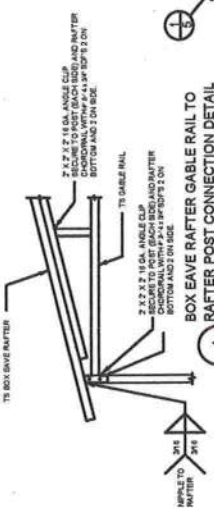
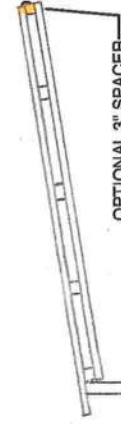
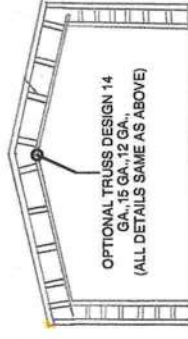
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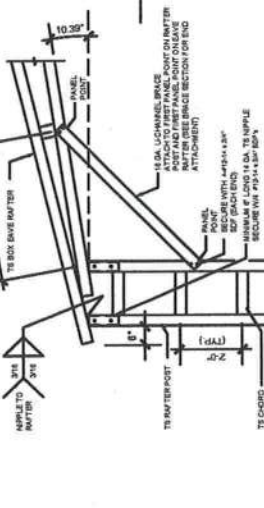
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GABLE END FRAMING SECTION
NOT TO SCALE



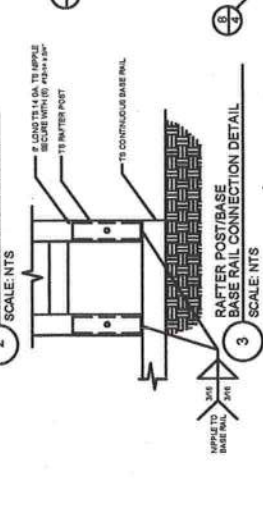
TYPICAL FREE STANDING LEAN-TO
SLAB CONSTRUCTION
(SEE DETAIL 1 OR 2 SHEET 2)



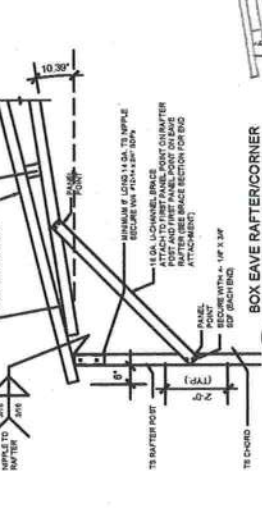
1
SCALE: NTS



2
SCALE: NTS



3
SCALE: NTS



4
SCALE: NTS

DR. RAM A. GOEL, PH.D., P.E.
F.P.E. 47431
SONEY FM LLC
10329 CROSS CREEK BLVD., SUITE P
TAMPA, FL 33647
Ph: 727-420-4796
Fax: (813) 972-2846
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ELITE METAL MANUFACTURING, LLC
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LIVE OAK, FL 32060

6

CONCRETE

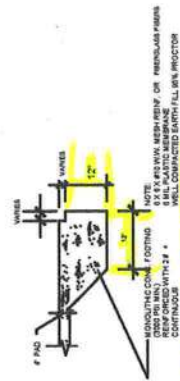


THE FOLLOWING IS COMPLIANT TO THE FLORIDA
BUILDING CODES AND EDITION AND ASCE 7-16 FOR
WIND LOADS OF 150 MPH.

Ram Goel
Professional Engineer
License No. 47431
State of Florida
141548-0007

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(1) MONOLITHIC FOOTER (TYP.)
SCALE: NTS

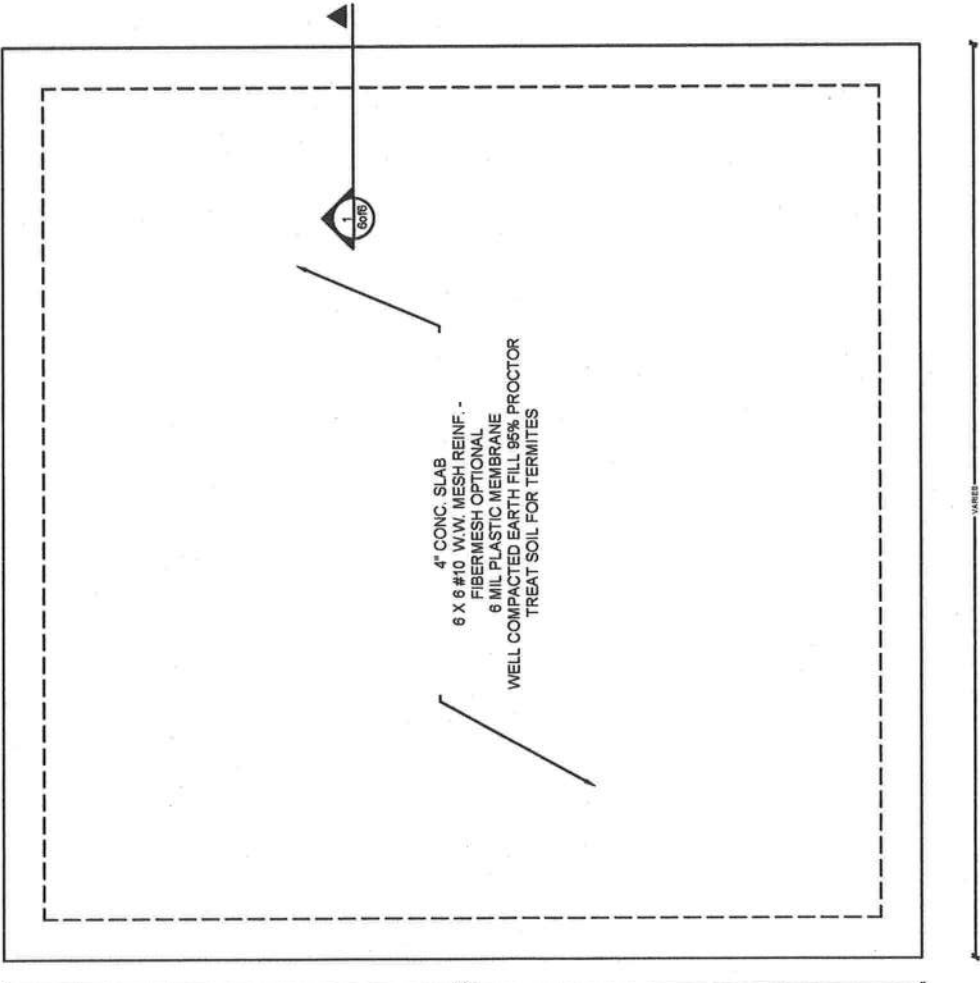
CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.
COVER OVER REINFORCING STEEL
FOR FOUNDATIONS. MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE:
3 INCHES IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND
PREMANENTLY IN CONTACT WITH EARTH OR EXPOSED TO THE EARTH OR WEATHER
AND 1 1/2" ELSEWHERE. REINFORCING BARS EMBEDDED IN GROUTED CELLS SHALL HAVE
A MINIMUM CLEAR DISTANCE OF 14" FOR FINE GROUT OR 12" FOR COARSE GROUT
BETWEEN REINFORCING BARS AND ANY FACE OF A CELL. REINFORCING BARS USED IN
MASONRY WALLS SHALL HAVE A MASONRY COVER (INCLUDING GROUT) OF NOT LESS THAN
1 1/2" FOR MASONRY COVER AND 1 1/2" FOR FACE EXPOSED TO EARTH OR WEATHER. 1 1/2" FOR MASONRY
UNITS NOT EXPOSED TO EARTH OR WEATHER.

REINFORCING STEEL:
THE REINFORCING STEEL SHALL BE MINIMUM GRADE 40.

GALVANIZATION:
METAL ACCESSORIES FOR USE IN EXTERIOR WALL CONSTRUCTION NOT DIRECTLY EXPOSED TO
THE WEATHER SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A 153, CLASS B-2. METAL
PLATE CONNECTORS, SCREWS, BOLTS AND NAILS EXPOSED DIRECTLY TO THE WEATHER SHALL BE
IN STAINLESS STEEL OR HOT DIPPED GALVANIZED.

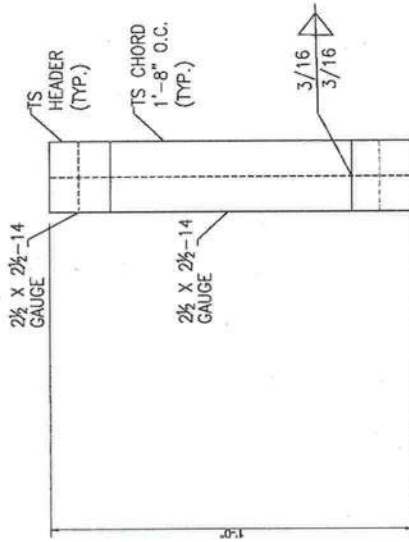
REINFORCEMENT MAY BE BENT IN THE SHOP OR THE FIELD PROVIDED:
1. ALL REINFORCEMENT IS BENT COLD
2. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN 6-BAR
DIAMETERS AND
3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.

EXCEPTION: WHERE BENDING IS NECESSARY TO ALIGN BARS WITH A VERTICAL CELL, BARS PARTIALLY
EMBEDDED IN CONCRETE SHALL BE PERMITTED TO BE BENT AT A SLOPE NOT MORE THAN 1" OF
THE HORIZONTAL DISPLACEMENT TO 8" OF VERTICAL BAR LENGTH.



4" CONC. SLAB
6 x 6 #10 W.W. MESH REINF. -
FIBERMESH OPTIONAL
6 MIL PLASTIC MEMBRANE
WELL COMPACTED EARTH FILL 95% PROCTOR
TREAT SOIL FOR TERMITES

OPTIONAL HEADER



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



DR. RAM A. GOEL, PH.D., P.E.
F.P.E. 47431
SONEY FM LLC
10929 CROSS CREEK BLVD., SUITE P
TAMPA, FL 33647
Ph: 727-420-4796
Fax: (813) 972-2646
www.soneyfm.com

Job # 2173
Drawn By: S.K.
Checked By: R.G.

Revisions:	No.	Date	Description
1	1	11/11	1
2	1	11/11	2
3	1	11/11	3
4	1	11/11	4
5	1	11/11	5

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



THIS SEALING IS ONLY VALID TO THE EXTENT THAT THE FOLLOWING IS COMPLIED WITH: ALL DESIGN AND CALCULATIONS MUST BE IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, AS AMENDED, AND ALL DESIGN AND CALCULATIONS MUST BE IN ACCORDANCE WITH THE FLORIDA ELECTRICAL CODE, AS AMENDED.

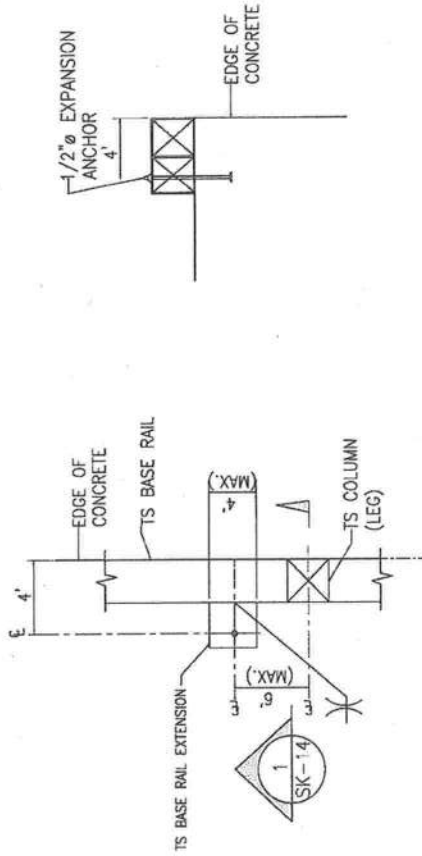
- NOTES:
1. THIS SEALING HAS BEEN ISSUED AND SIGNED BY DR. RAM A. GOEL, P.E., F.P.E. 47431, IN THE STATE OF FLORIDA, AND IS VALID FOR THE DESIGN AND CALCULATIONS OF THE FOLLOWING PROJECT.
 2. CONSIDERED SEALING & SIGNED. THE SEALING MUST BE VERIFIED BY THE ELECTRICAL CODE.

THIS SEALING IS ONLY VALID TO THE EXTENT THAT THE FOLLOWING IS COMPLIED WITH: ALL DESIGN AND CALCULATIONS MUST BE IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, AS AMENDED, AND ALL DESIGN AND CALCULATIONS MUST BE IN ACCORDANCE WITH THE FLORIDA ELECTRICAL CODE, AS AMENDED.

Dr. Ram A. Goel, P.E. # 47431
GOEL ENGINEERING, LLC
10929 CROSS CREEK BLVD., SUITE P
TAMPA, FL 33647

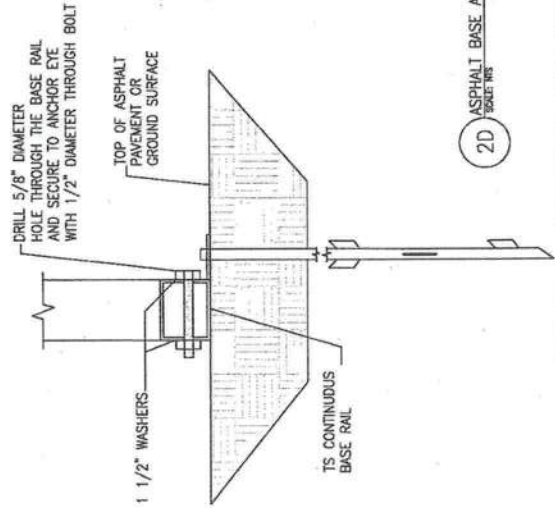
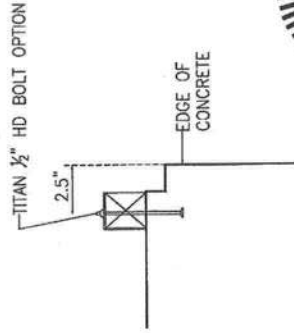
Engineer Seal for Ram Goel
Professional Engineer
License No. 47431
State of Florida
Dr. Ram A. Goel, P.E. # 47431
GOEL ENGINEERING, LLC
10929 CROSS CREEK BLVD., SUITE P
TAMPA, FL 33647

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 N.T.S.



SONEY FM LLC
DR. RAM A. GOEL, PH.D., P.E.
EPE 47431
10929 CROSS CREEK BLVD., SUITE P
TAMPA, FL 33647
PAC 727-420-4796
FAX (813) 972-2846
WWW.SONEYFM.COM

Job # 2173
Drawn By S.K.
Checked By R.G.

Revision:	Date	Description
1	11/11	Issue
2	11/11	Revised
3	11/11	Revised
4	11/11	Revised
5	11/11	Revised
6	11/11	Revised
7	11/11	Revised
8	11/11	Revised
9	11/11	Revised
10	11/11	Revised

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

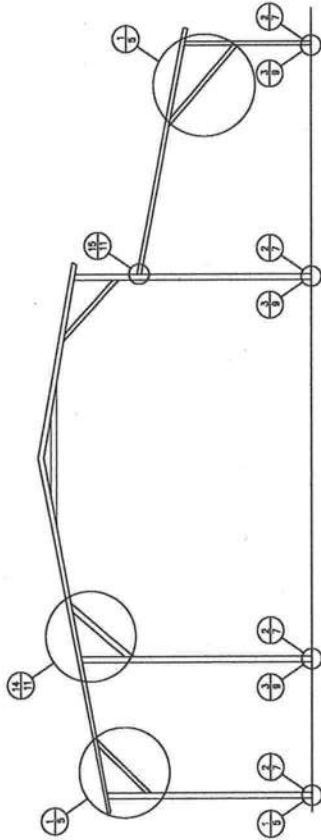


THE FOLLOWING IS COMPLIANT TO THE FLORIDA
BUILDING CODE 2020, 7TH EDITION AND ASCE 7-16 FOR
WIND LOADS OF 180 MPH.
NOTED:
1. THIS SET HAS BEEN DESIGNED AND DETAIL BY
2. ANY CHANGES TO THIS SET MUST BE
3. APPROVED BY THE DESIGNER AND NOT
4. CONSIDERED AS A PART OF THE ORIGINAL DESIGN.
5. ANY CHANGES TO THIS SET MUST BE
6. APPROVED BY THE DESIGNER AND NOT
7. CONSIDERED AS A PART OF THE ORIGINAL DESIGN.

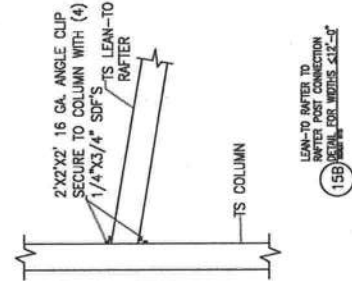
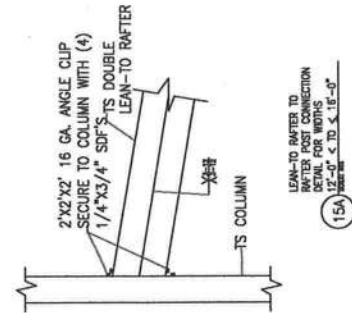
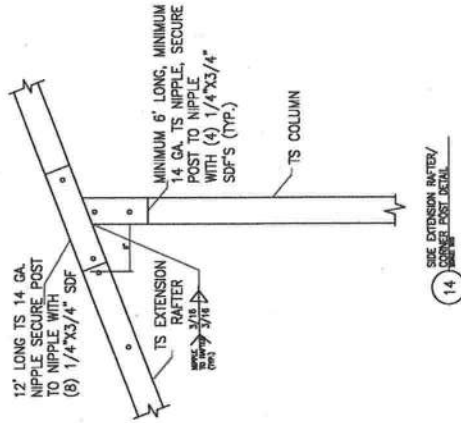
Ram Goel
Dr. Ram A. Goel, P.E. # 47431
SEAL OF THE FLORIDA BOARD OF PROFESSIONAL ENGINEERS
DATE 11/11/11
11/11/2011

Dr. Ram A. Goel, P.E. # 47431
SEAL OF THE FLORIDA BOARD OF PROFESSIONAL ENGINEERS
DATE 11/11/11
11/11/2011

BOX EAVE RAFTER LEAN-TO OPTIONS



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



Ram Goel
 Ram Goel & Associates, Inc.
 1417 28th Ave
 St. Petersburg, FL 33712
 (813) 422-4007
 www.ramgoel.com



NOTES:
 1. THIS SET HAS BEEN REVISIONED AND SEALED BY
 2. THE SEAL OF THE PROFESSIONAL ENGINEER IS REQUIRED FOR ALL REVISIONS.
 3. CONSIDERED AS PART OF THE DESIGN. THE SIGNATURE MUST
 BE VERIFIED ON ANY ELECTRONIC COPIES.

Dr. Ram A. Goel, P.E. # 47433
 LICENSED PROFESSIONAL ENGINEER
 STATE OF FLORIDA

BOX EAVE RAFTER LEAN-TO OPTIONS
 ELITE METAL MANUFACTURING, LLC
 10121 88TH TRAIL
 LIVE OAK, FL 32060

Issue Date: 08-18-21

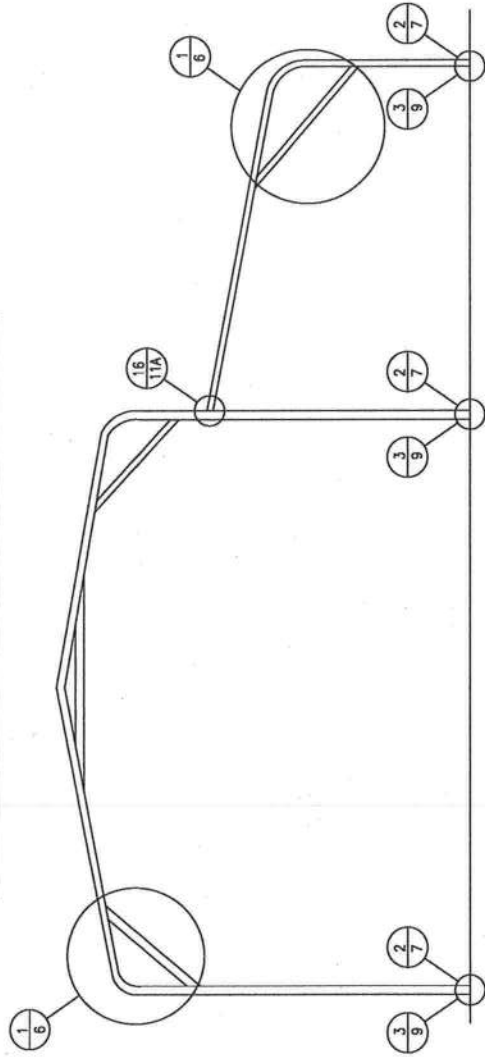
Rev.	Date	Description
1	08/18/21	Initial Issue
2	08/18/21	Revised per comments
3	08/18/21	Revised per comments
4	08/18/21	Revised per comments
5	08/18/21	Revised per comments
6	08/18/21	Revised per comments
7	08/18/21	Revised per comments
8	08/18/21	Revised per comments
9	08/18/21	Revised per comments
10	08/18/21	Revised per comments

Job # 2173
 Drawn By: KID
 Checked By: S.G.

Richard G. Marceau, P.E. # 64466
 PH: 813-388-6090
 SONET FM LLC
 10329 CROSS CREEK BLVD., SUITE P
 TAMPA, FL 33617
 www.sonetfmllc.com

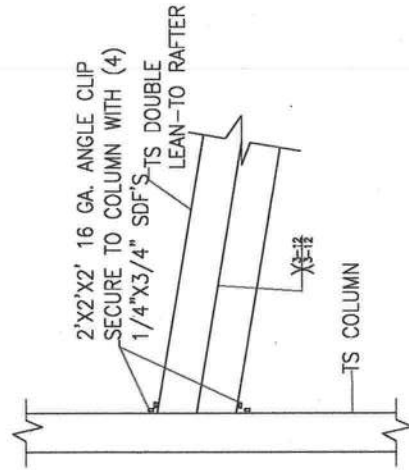


BOX EAVE RAFTER LEAN-TO OPTIONS



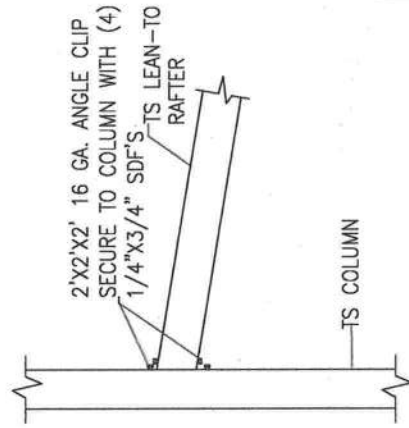
TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION

SCALE: NTS



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

16A
SCALE: NTS



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

16B
SCALE: NTS



NOTE: THIS PLAN HAS BEEN REVIEWED AND SEALED BY:
1. RAM A. GOEL, LEAD DESIGNER, SIGNATURE & DATE.
2. CONFIRMED CORRECTIONS TO BE MADE TO THE ORIGINAL MUST BE VERIFIED ON ANY ELEVATING COPIES.

Dr. Ram A. Goel, P.E. # 47431
GOEL & ASSOCIATES, INC.
1417 W. 14TH AVE., SUITE 100
MIAMI, FL 33135
305.571.1111

Ram Goel

Signature of Ram A. Goel
Date: 08/18/21
Professional Engineer
State of Florida
No. 47431
1417 W. 14TH AVE., SUITE 100
MIAMI, FL 33135
305.571.1111

BOX EAVE RAFTER LEAN-TO OPTIONS
ELITE METAL MANUFACTURING, LLC
10121 88TH TRACE
LIVE OAK, FL 32060

10

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 #2173
Drawn By: K.D.
Checked By: S.G.

Issue Date: 08-18-21
Revisions:
No. Date Description
1 8/18/21 Initial Design
2 8/18/21 Final Design

