

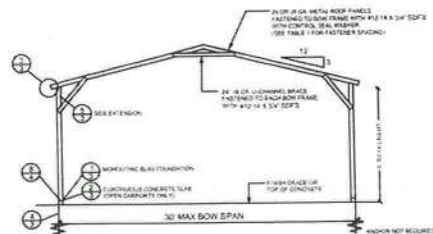
THE RAM A. GOEL, P.E. & ASSOCIATES, INC.
1701 E. 72nd Ave.
SUITE 100
TAMPA, FL 33617
Tel: (813) 927-2846
Fax: (813) 927-2846
www.sonetufm.com

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

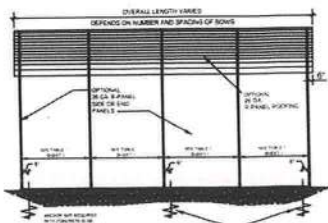
Issue Date: 08-18-21
Revisions:
No. Rev. Description
1/1/21
1/1/21
1/1/21

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

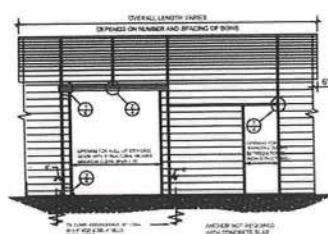
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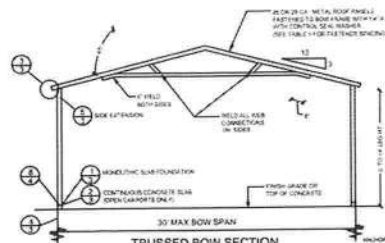
TYPICAL BOW SECTION
NOT TO SCALE



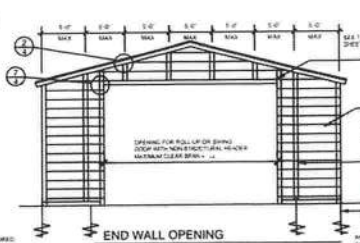
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NOT TO SCALE



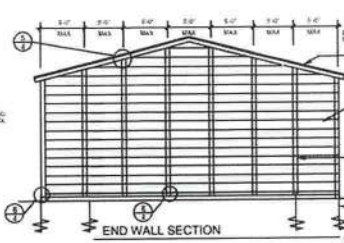
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NOT TO SCALE



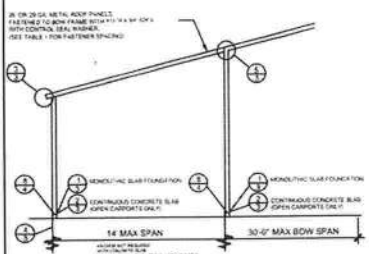
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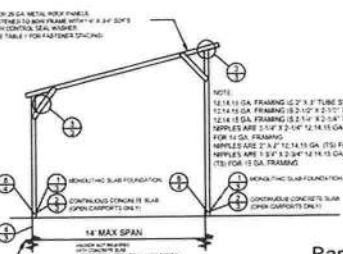
END WALL OPENING
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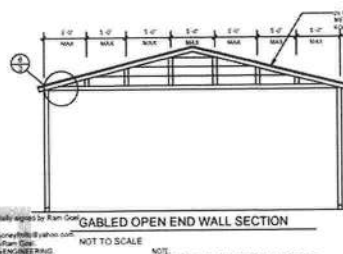
END WALL SECTION
NOT TO SCALE



TYPICAL SIDE EXTENSION SECTION
NOT TO SCALE



TYPICAL FREESTANDING LEAN-TO
NOT TO SCALE



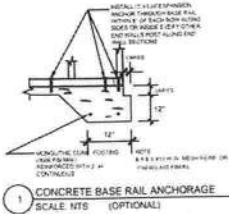
GABLED OPEN END WALL SECTION
NOT TO SCALE



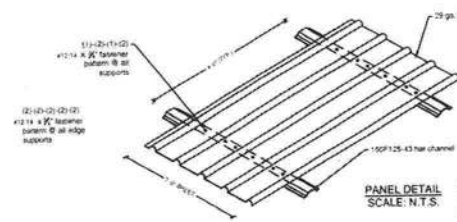
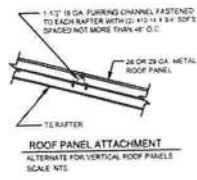
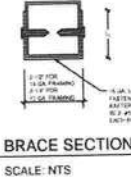
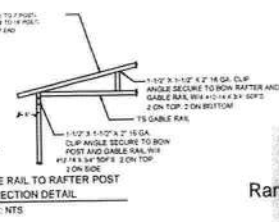
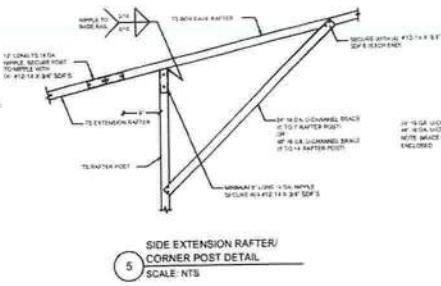
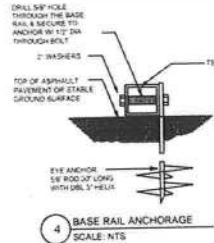
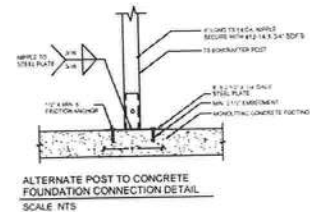
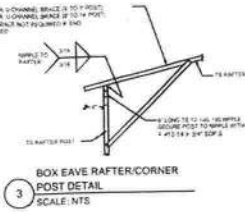
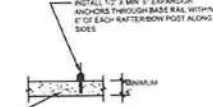
THIS FOLLOWING IS COMPLIANT TO THE FLORIDA BUILDING CODE 2018, WITH EXCEPTION AND ASCE 7-18 FOR WIND LOADS OF 150 MPH.

Ram Goel

NOTES:
1. THIS ITEM HAS BEEN SIGNED AND SEALED BY
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2 CONCRETE BASE RAIL ANCHORAGE
SCALE: NTS (OPTIONAL - OPEN CARPORT ONLY)



THE FOLLOWING IS COMPLIANT TO THE FLORIDA BUILDING CODE 2020, 7TH EDITION AND ASCE 7-16 FOR WIND LOADS OF 150 MPH

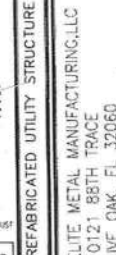
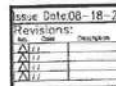
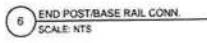
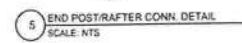
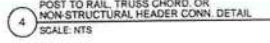
NOTE:
1. THIS SET HAS BEEN SIGNED AND SEALED BY RAM A. GOEL, USING A DIGITAL SIGNATURE & DATE.
2. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED & SEALED. THIS SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

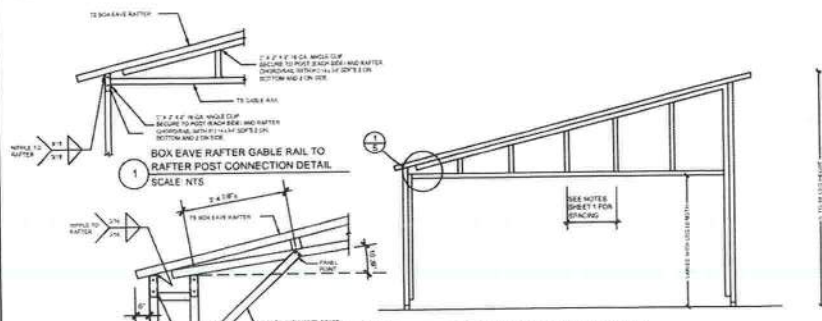
RAM A. GOEL, P.E. # 47431

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

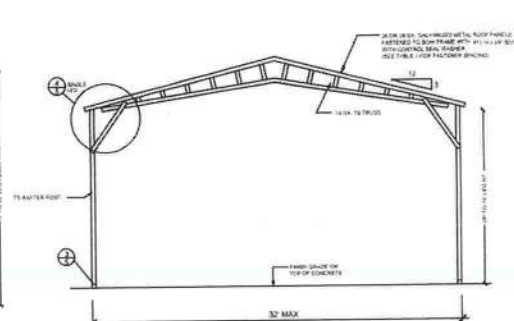
THE RAM A. GOEL, P.E. F.P.E. 47431
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COURT REPORTER CENTER
10121 88TH TRACE, SUITE 100
LIVE OAK, FL 32060
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WWW.RAMGOEL.COM

Job # 2173
Drawn By: S.K.
Checked By: R.C.
Issue Date: 08-18-23
Revisions:
Rev. Date Description
1. 08-18-23 Initial Design
2. 08-18-23 Final Design

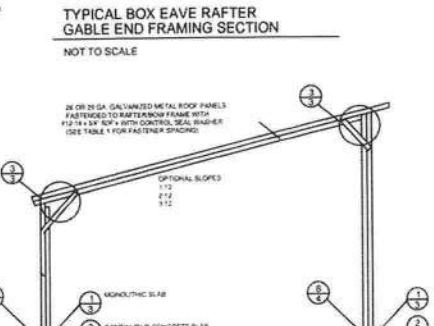
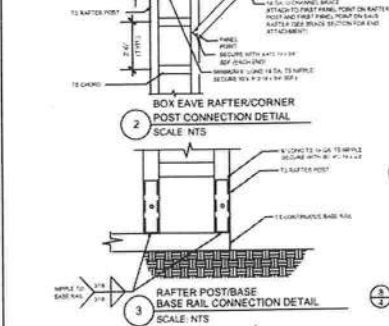




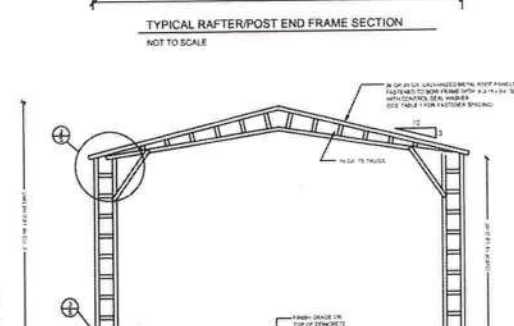
**TYPICAL BOX EAVE RAFTER
GABLE END FRAMING SECTION**
NOT TO SCALE



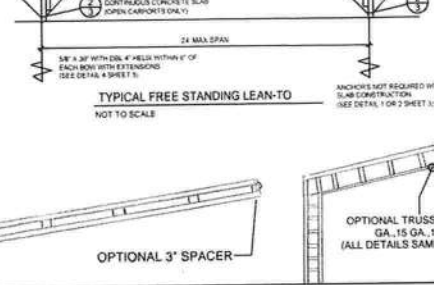
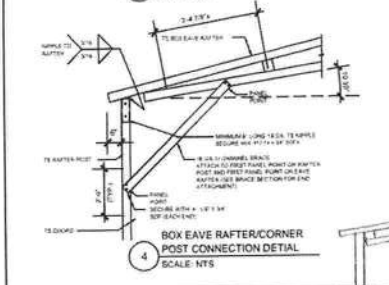
TYPICAL RAFTER/POST END FRAME SECTION
NOT TO SCALE



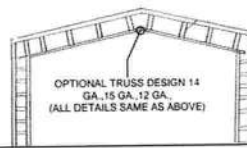
TYPICAL FREE STANDING LEAN-TO
NOT TO SCALE



TYPICAL RAFTER/POST END FRAME SECTION
NOT TO SCALE



OPTIONAL 3' SPACER



**OPTIONAL TRUSS DESIGN 14
GA, 15 GA, 12 GA,
(ALL DETAILS SAME AS ABOVE)**



NOTE:
1. THIS SET OF DRAWINGS IS PREPARED BY
RAM A. GOEL, P.E. FOR THE PROJECT AND DATE.
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THE FOLLOWING IS COMPLIANT TO THE FLORIDA
BUILDING CODE 2009, 7TH EDITION AND ASCE 7-10 FOR
WIND LOADS OF 150 MPH.

RAM A. GOEL, P.E. # 47431

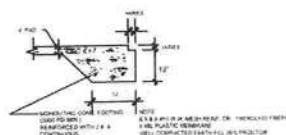


DR. RAM A. GOEL, P.E.
P.E. # 47431
SONEY INTEL
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10121 88TH TRAIL
TAMPA, FL 33647
TEL: 813.727.2806
FAX: 813.727.2806
www.soneyintel.com

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

Issue Date: 08-18-21
Rev. Date: _____
Rev. By: _____
Rev. Date: _____

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



1 MONOLITHIC FOOTER (TYP.)
SCALE NTS

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

CONCRETE COVER 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 4" FOR FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY 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 1/4" FOR FINE GROUT OR 1/2" 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 UNITS WITH 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-Z. 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

GASETERS AND RESEARCHERS

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 6" OF VERTICAL BAR LENGTH.



Ram Goel

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

NOTE:

1. THIS ITEM HAS BEEN SIGNED AND SEALED BY
RAM A. GODE USING A DIGITAL SIGNATURE & DATE.
2. PRINTED COPIES OF THIS DOCUMENT ARE NOT
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RAM A. DOEL, P.E. # 47437

CONCRETE

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

6

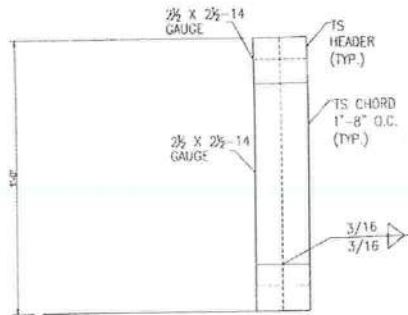
DR. RAM A. GOEL, PH.D., P.E.
F.P.E. 47431
SONNY SMILE
COURTY LAKE PROFESSIONAL CENTER
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FAX: (813) 972-2846
www.sonnysmile.com

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

Issue Date: 08-18-21

Rev.	Type	Description
1		
2		
3		
4		

OPTIONAL HEADER



HEADER DETAIL FOR DOOR
 OPENINGS 12'-0" < LENGTH < 20'-0"
 SEE 418



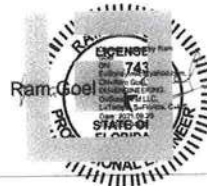
DR. RAM A. GOEL, P.E.
 P.E. # 47411
 SONEY ENGINEERS
 1025 CHURCH STREET, SUITE 100
 FORT WORTH, TEXAS 76102
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 FAX: 817-335-4796
 WWW.SONEYENGINEERS.COM

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

Issue Date: 08-18-21
 Revision:
 1/1/21
 2/1/21
 3/1/21

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

7



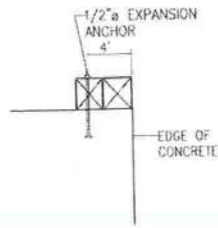
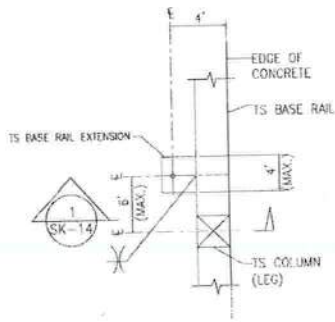
THE FOLLOWING IS COMPLIANT TO THE FLORIDA
 BUILDING CODE 2018 EDITION AND ASCE 7-16 FOR
 WIND LOADS OF 150 MPH

NOTE:
 1. THE NEW AND REINFORCED CONCRETE AND STEEL
 AND A GUY WIRE A RIGID SUPPORTS & GUY
 2. THE GUY WIRE OF THE STRUCTURE AND NOT
 CONSIDERED AS A RIGID SUPPORTS & GUY
 3. WINDS IN ALL DIRECTIONS

DESIGNED AND ENGINEERED BY
 DR. RAM A. GOEL, P.E.
 SONEY ENGINEERS
 1025 CHURCH STREET, SUITE 100
 FORT WORTH, TEXAS 76102
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 FAX: 817-335-4796
 WWW.SONEYENGINEERS.COM

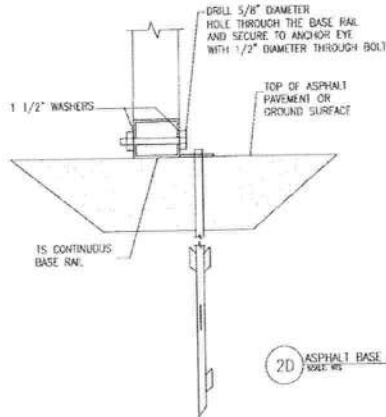
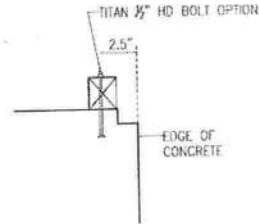
Dr. Ram A. Goel, P.E. # 47411
 LICENSED PROFESSIONAL ENGINEER
 STATE OF FLORIDA

ADDITIONAL BASE RAIL ANCHORAGE OPTION

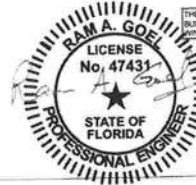


TYPICAL ANCHOR DETAIL WHEN
BASE RAIL IS NEAR EDGE OF CONCRETE
SCALE: N.T.S.

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



2D ASPHALT BASE ANCHORAGE
SCALE: N.T.S.



THE FOLLOWING IS COMPLIANT TO THE FLORIDA
BUILDING CODE 2020, 7TH EDITION AND ASCE 7-16 FOR
WIND LOADS OF 150 LPH

NOTE:
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Dr. Ram A. Goel, P.E. # 47431

SONEY FM
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WWW.SONEYFM.COM

THE RAM A. GOEL, P.E. F.E.
EPT. 47431
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TAMPA, FL 33627
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WWW.SONEYFM.COM

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

Issue Date 08-19-20
Revisions:
No. Description
1. All
2. All
3. All
4. All

ADDITIONAL BASE RAIL ANCHORAGE OPTION
W/FACTURING, LLC
Ram Goel
W/FACTURING, LLC
10121 88
LIVE OAK,
8

ADDITIONAL BASE RAIL ANCHORAGE OPTION
W/FACTURING, LLC
Ram Goel
W/FACTURING, LLC
10121 88
LIVE OAK,
8

ADDITIONAL BASE RAIL ANCHORAGE OPTION
W/FACTURING, LLC
Ram Goel
W/FACTURING, LLC
10121 88
LIVE OAK,
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