WIND EXPOSURE CATEGORY B, C, or D BOW/RAFTER FRAME, END POST, GROUND ANCHOR AND PANEL FASTENER SPACING SPECIFICATIONS (MPH) ULTIMATE WIND SPEED 151 TO 180 115 TO 150 (MPH) NOMINAL WIND SPEED 89 TO 116 TABLE 1 AND END POST SPACING (FEET) MAXIMUM RAFTER/BOW 5.0 6 BOWS/RAFTERS INTERIOR AVERAGE FASTENER SPACING
ON-CENTERS ALONG RAFTERS OR
PURLINS, AND POSTS OR GIRTS
(INCHES)

RISK CATEGORY

NOTES:

1. SPECIFICATIONS APPLICABLE TO 26 OR 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 12,14 OR 15 GAUGE STEEL TUBE BOW FRAMES.
2. FASTENTERS CONSIST OF 12,143,354\* 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 PITCH), SPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS ANDIOR 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.

117 TO 139

4.0

I, II, III, or IV

## GENERAL NOTES:

BOWS/RAFTERS

END

ANSI/AAMA/NWWDA 101/1S 2/97
THE CONSTRUCTION SHALL BE TESTED IN ACCO
METHODS FOR STRUCTURAL PERFORMANCE OF
DOORS BY UNIFORM STATIC AIR PRESSURE.

RDANCE WITH ASTM E 330, STANDARD TEST EXTERIOR WINDOWS, CURTAIN WALLS, AND

- 1. ALL STEEL SHALL BE 50 KSI STEEL
- FASTEN METAL ROOF AND WALL PANELS TO FRAMING WITH 1/4"
   X 3/4" SELF DRILLING FASTENERS WITH CONTROL SEAL WASHER @ 6"
   O.C. AVERAGE.

- 5. CONCRETE EXPANSION ANCHORS SHALL BE WEJ-IT ANKR-TITE MODEL AT 1252, OR SLEEVE ANCHOR MODEL HSA 1260, OR EQUIVELENT. GROUND ANCHOR REQUIREMENTS ARE 1@ EACH CORNIER & ONE EVERY OTHER INTERIOR RAFTER POST LOCATION. AT A MAXIMUM 10°-0" O.C., AND BOTH SIDES OF OPENINGS WHERE BASE RAIL IS ABSENT. GROUND ANCHORS ARE NOT REQUIRED FOR CONCRETE FOOTING AND/OR CONC RETE SLAB CONSTRUCTION.
- POST/RAFTER BRACING: BRACE ON EVERY CONNECTION, EXCEPT FOR END WALLS. POST/RAFTER

DESIGN WAS DONE IN ACCORDANCE WITH THE SUPPLEMENT AMENDMENTS 2006 INTERNATION

2020 FLORIDA BUILDING CODE 7TH EDITION( FBC) 2020 AL BUILDING CODE (IBC), 2009 IBC AND 2012 IBC.

- 3. ALL FIELD CONNECTIONS SHALL BE \*12-14X3/4\* SCREWS. SELF DRILLING
- 4. ALL SHOP CONNECTIONS SHALL BE WELDED.

26 OR 29 GA. METAL ROOF AND WALL PANELS DESIGN PRESSURE ±NA -40.0 PSF
 © 5'-0" O.C. FASTENER SPACING

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MANS EXAMINE

Revisions:

Description

Compliance

Code

Date:08-18-

F.P.E. 47431. SONEY FM LLC CORY LAKE PROFESSIONAL CENTER 10329 CROSS CREEK BLVD., SUITE P TAMPA, FL 33647 Ph: 727-420-4796 Fax: (813) 972-2846 www.soneyfmllc.com

DR. RAM A. GOEL, PH.D., P.E

Professional, fillulent & funcaming

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

8 x 8

W 4 M

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51

WINDOW AND DOOR NOTE

## TYPICAL END ELEVATION-HORIZONTAL ROOF

SCALE: NOT TO SCALE

TYPICAL SIDE ELEVATION-HORIZONTAL ROOF

NUMBER AND SPACING OF RAFTERS

SCALE: NOT TO SCALE

& DATE NOT NATURE MUST

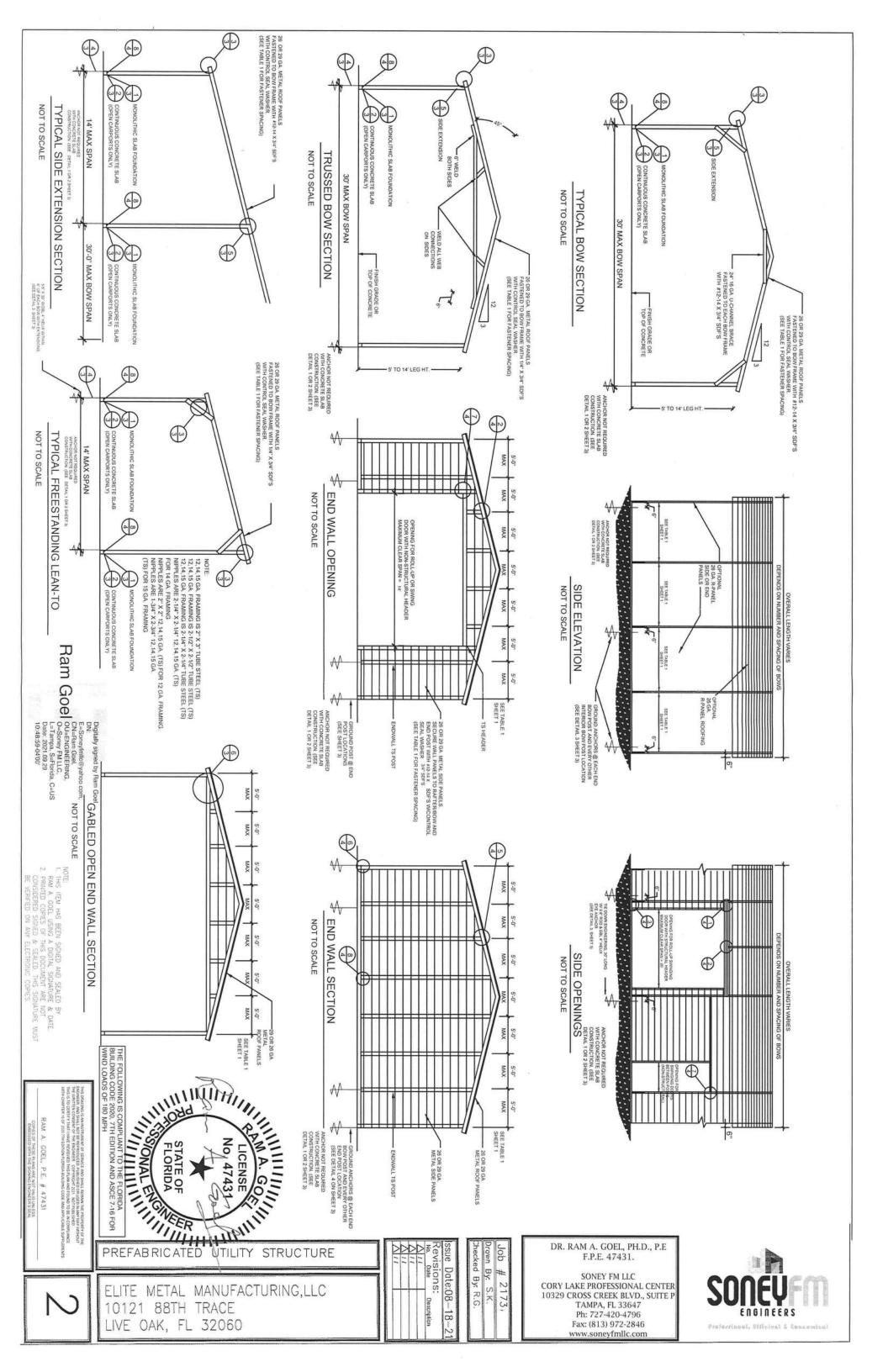
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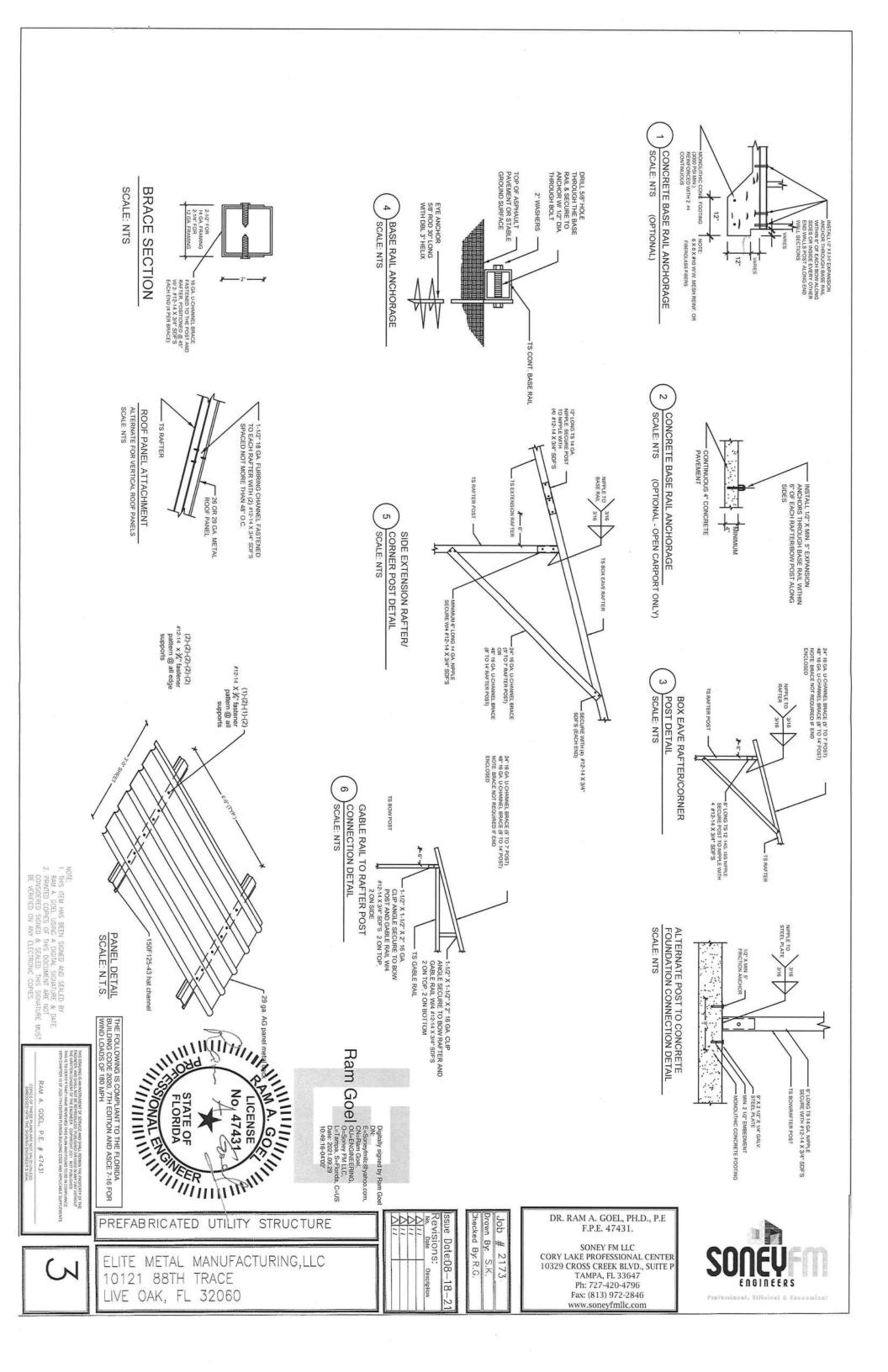
THE FOLLOWING IS COMPLIANT TO THE FLORIDA BUILDING CODE 2020, 7TH EDITION AND ASCE 7-16 FOR WIND LOADS OF 180 MPH

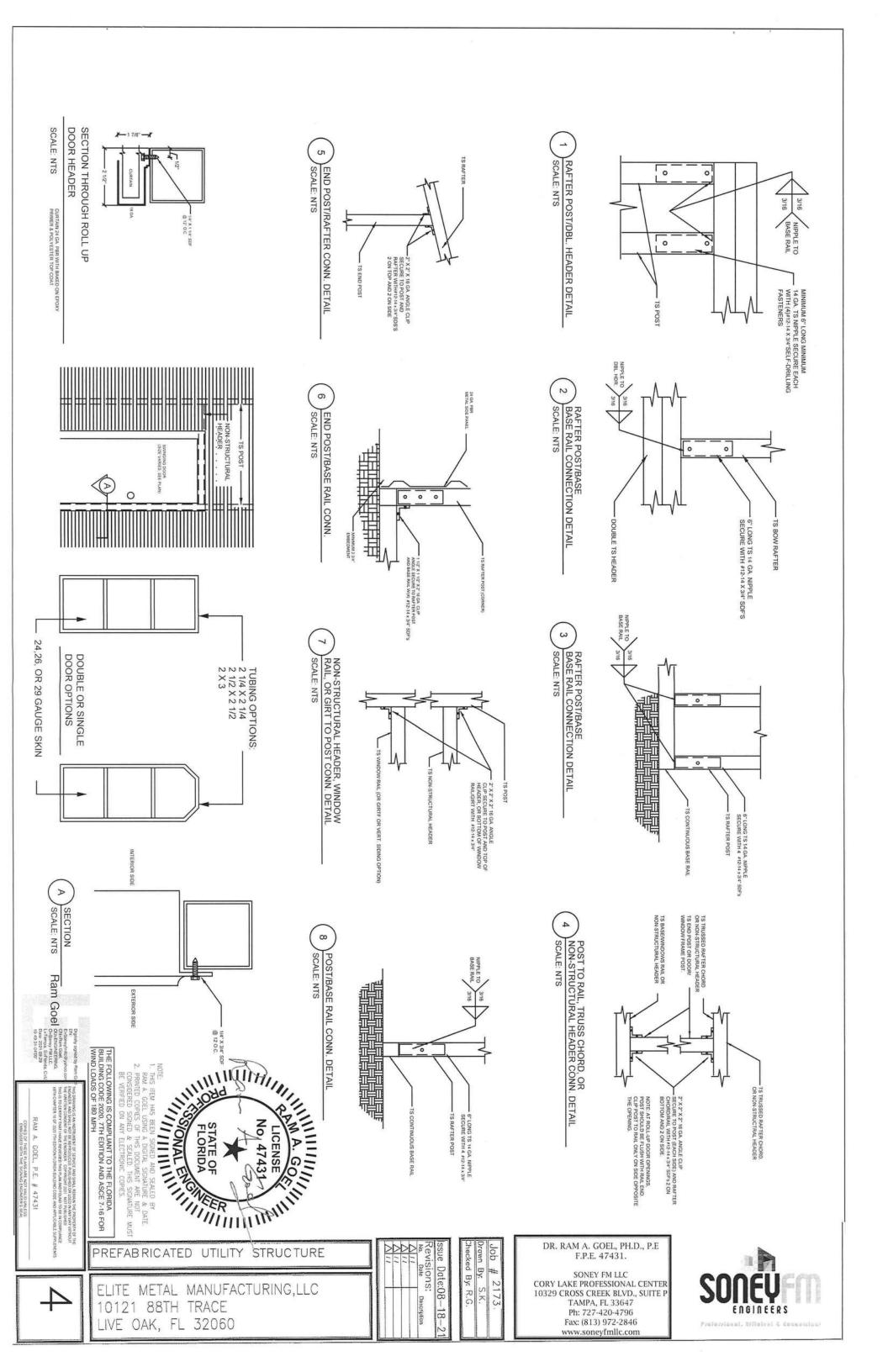
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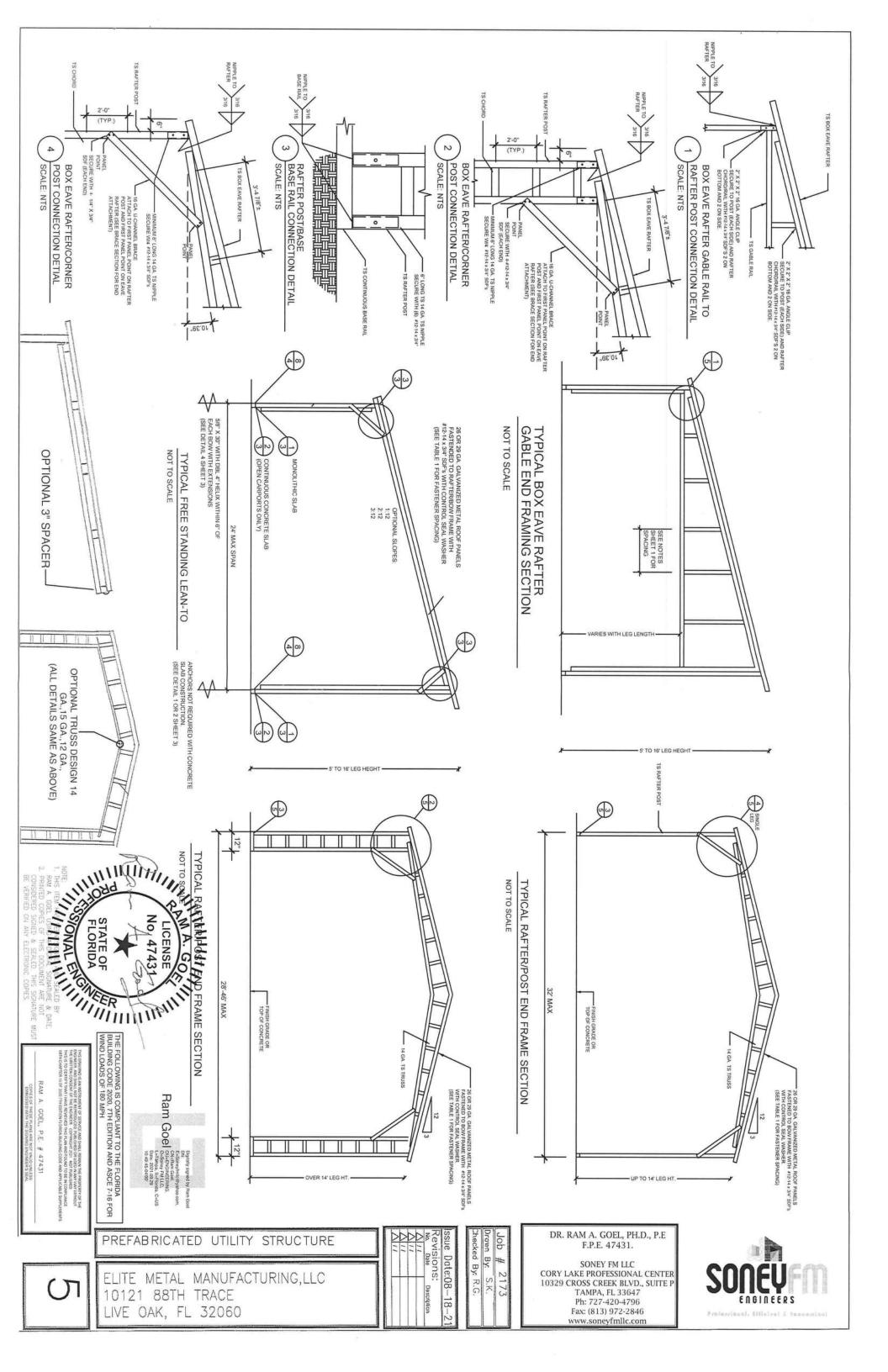
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WELL COMPACTED EARTH FILL 95% PROCTOR 6 X 6 #10 W.W. MESH REINF. -TREAT SOIL FOR TERMITES **6 MIL PLASTIC MEMBRANE** FIBERMESH OPTIONAL 4" CONC. SLAB

> WITH 2# 4 FOOTING 12 NOTE:
> 8 X 9 X \$10 W.W. MESH REINF. OR FIBERGLASS FIBERS
> 6 MIL PLASTIC MEMBRANE
> WELL COMPACTED EARTH FILL 95% PROCTOR

SCALE: NTS

MONOLITHIC FOOTER (TYP.)

CONCRETE: CONCRETE: 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 EARCH 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 COURSE 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 2" FOR MASONRY UNITS WITH FACE EXPOSED TO EARTH OR WEATHER 1 1/2" FOR MASONRY UNITS WITH FACE EXPOSED TO EARTH OR WEATHER 1 1/2" FOR MASONRY UNITS WITH FACE EXPOSED TO EARTH OR WEATHER 1 1/2" FOR MASONRY UNITS WITH FACE EXPOSED TO EARTH OR WEATHER 1 1/2" FOR MASONRY UNITS WITH FACE EXPOSED TO EARTH OR WEATHER 1 1/2" FOR MASONRY UNITS WITH FACE EXPOSED TO EARTH OR WEATHER 1 1/2" FOR MASONRY UNITS NOT EXPOSED TO EARCH OR WEATHER.

REINFORCING STEEL:

THE REINFORCING STEEL SHALL BE MINIMUM GRADE 40.

GALVANIZATION:

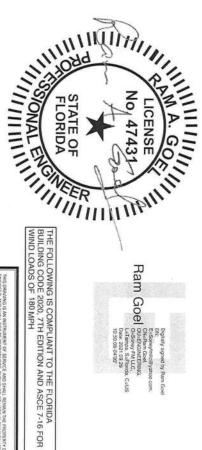
METAL ACCESSORIES FOR USE IN EXTERIOR WALL CONSTRUCTION NOT DIRECTLY EXPOSED TO THE WEATHER SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A 153, CLASS B-2. METAL PLATE CONNECTORS, SCREWS, BOLTS AND NAILS EXPOSED DIRECTLY TO THE WEATHER SHALL BE IN STAINLESS STEEL OR HOT DIPPED GALVANIZED.

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

3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.

EXCEPTION: WHERE BENDING IS NECESSARY TO ALIGN BARS WITH A VERTICAL CELL, BARS PARTIALL 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.



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RAM A. GOEL USING A DIGITAL SIGNATURE &

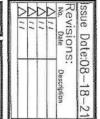
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## CONCRETE



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



Job rawn By: S.K. ecked By: R.G. # 2173 DR. RAM A. GOEL, PH.D., P.E F.P.E. 47431.

SONEY FM LLC CORY LAKE PROFESSIONAL CENTER 10329 CROSS CREEK BLVD., SUITE P TAMPA, FL 33647 Ph: 727-420-4796 Fax: (813) 972-2846 www.soneyfmllc.com



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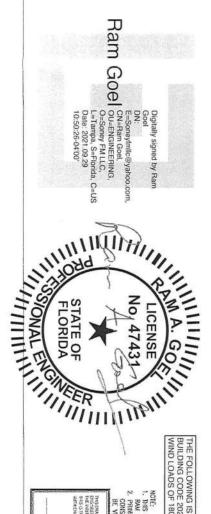
2½ X 2½-14
GAUGE

TS CHORD
1'-8" O.C.
2½ X 2½-14
GAUGE

3/16
3/16

HEADER DETAIL FOR DOOR

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



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

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Job # 2173 Frawn By. S.K. hecked By. R.G. DR. RAM A. GOEL, PH.D., P.E F.P.E. 47431.

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