BOW/RAFTER FRAME, END POST, GROUND ANCHOR AND PANEL FASTENER SPACING **SPECIFICATIONS**

RISK CATEGORY	WIND EXPOSURE CATEGORY	ULTIMATE WIND SPEED (MPH)	PEED NOMINAL WIND SPEED 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	89 TO 116	5.0	6	6
		151 TO 180	117 TO 139	4.0	6	6

- 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 15.05 SELF-ORILLING 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 AND/OR SLOPES MAY VARY.

ROLL-UP DOOR
(AS APPLICABLE)
DESIGN PRESSURE
LOW = (+24.4/-27.0 PSF)

IIGH = (+36.0/-41.0 PSF

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

(AS APPLICABLE) DESIGN PRESSURE +40.0/-40.0 PSF

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 LABORAT GORY, AND BEAR AN AAMA OR WDMA OR OTHER APPROVED LABEL INDENTIFYING THE MANUFACTURER, PERFORMANCE CHARACTERISTICS AND APPROVED PRODUCT EVALUATION ENTITY TO INDICATE COMPLIANCE WITH THE REQUIREMENTS OF THE FOLLOWING SPECIFICATION.

ANSI/AAMA/NWWDA 101/1S 2/97
THE CONSTRUCTION SHALL BE TESTED IN ACCORDANCE WITH ASTM E 330, STANDARD TEST METHODS FOR STRUCTURAL PERFORMANCE OF EXTERIOR WINDOWS, CURTAIN WALLS, AND DOORS BY UNIFORM STATIC AIR PRESSURE.

DESIGN WAS DONE IN ACCORDANCE WITH THE 2020 FLORIDA BUILDING CODE 7TH EDITION(FBC) 2020 SUPPLEMENT AMENDMENTS 2006 INTERNATIONAL BUILDING CODE (IBC), 2009 IBC AND 2012 IBC.

GENERAL NOTES:

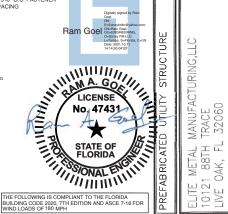
- 2 FASTEN METAL ROOF AND WALL PANELS TO FRAMING WITH 1/4" X 3/4" SELF DRILLING FASTENERS WITH CONTROL SEAL WASHER @ 6" O.C. AVERAGE
- 3. ALL FIELD CONNECTIONS SHALL BE #12-14X3/4" SELF DRILLING
- 4. ALL SHOP CONNECTIONS SHALL BE WELDED.
- 5. CONCRETE EXPANSION ANCHORS SHALL BE WEJ-IT ANKR-TITE MODEL AT 1252, OR SLEEVE ANCHOR MODEL HSA 1260, OR EQUIVELENT, GROUND ANCHOR REQUIREMENTS ARE 1@ EACH CORNER & ONE EVERY OTHER INTERIOR RAFTER POST LOCATION.
 AT A MAXIMUM 10-0* 0.C., AND BOTH SIDES OF OPENINGS
 WHERE BASE RAIL IS ABSENT. GROUND ANCHORS ARE NOT REQUIRED
 FOR CONCRETE FOOTING AND/OR CONCRETE SLAB CONSTRUCTION.
- POST/RAFTER BRACING: BRACE ON EVERY POST/RAFTER CONNECTION, EXCEPT FOR END WALLS.



DR. RAM A. GOEL, PH.D., F.P.E. 47431. SONEY FM LLC / LAKE PROFESSIONAL C 9 CROSS CREEK BLVD., 15 TAMPA, FL 33647 Ph: 727-420-4796

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

Issue Date:08-18-2 Revisions:



WINDOW (AS APPLICABLE) DESIGN PRESSURE +23.0/-25.0 PSF 26 OR 29 GA ROOF AND WALL PANELS DESIGN PRESSURE ±N/A -40.0 PSF @ 5'-0" O.C. FASTENER SPACING

LENGTH VARIES DEPENDING ON -NUMBER AND SPACING OF RAFTERS

TYPICAL SIDE ELEVATION-HORIZONTAL ROOF

SCALE: NOT TO SCALE

30' MAXIMUM RAFTER SPAN TYPICAL END ELEVATION-HORIZONTAL ROOF

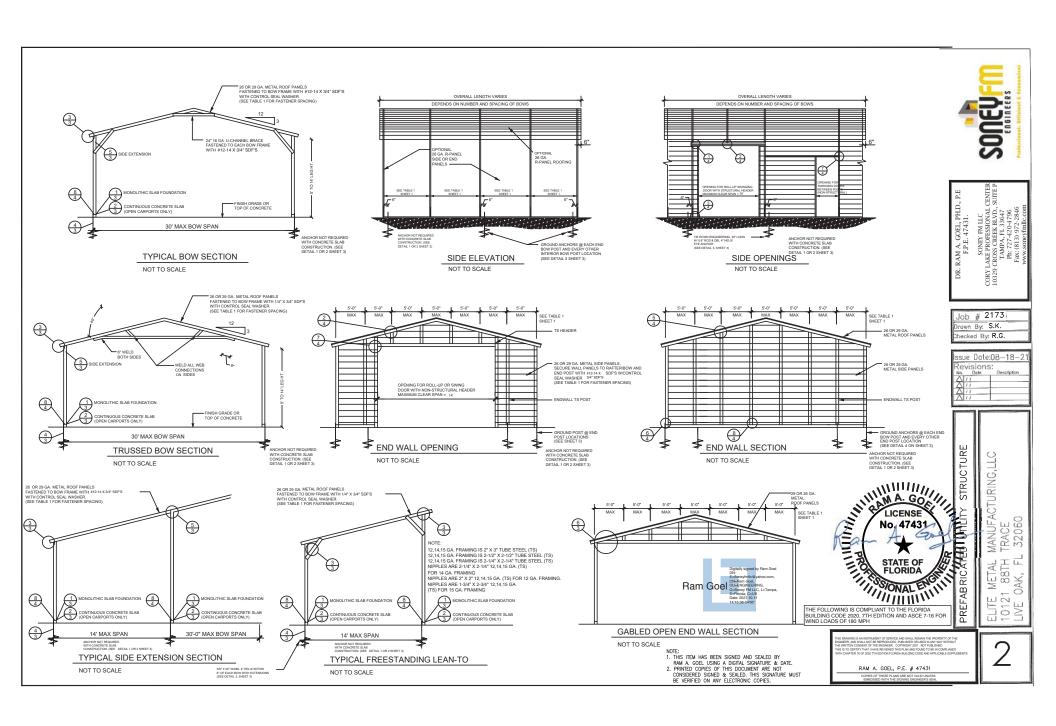
SCALE: NOT TO SCALE

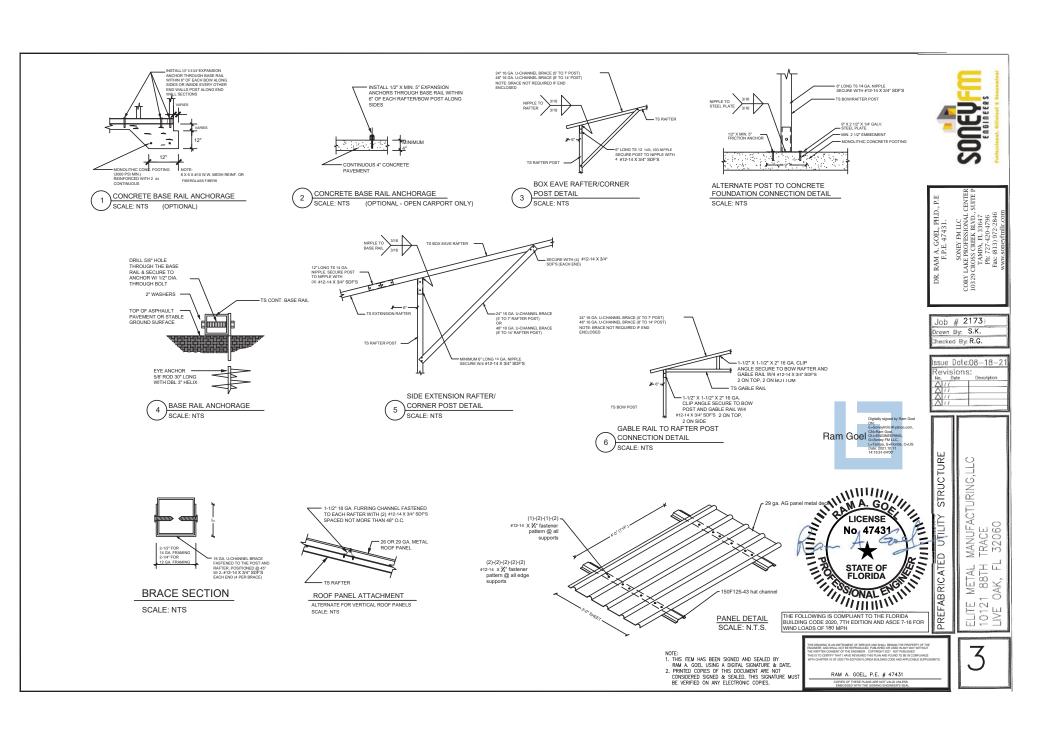
NOTE:

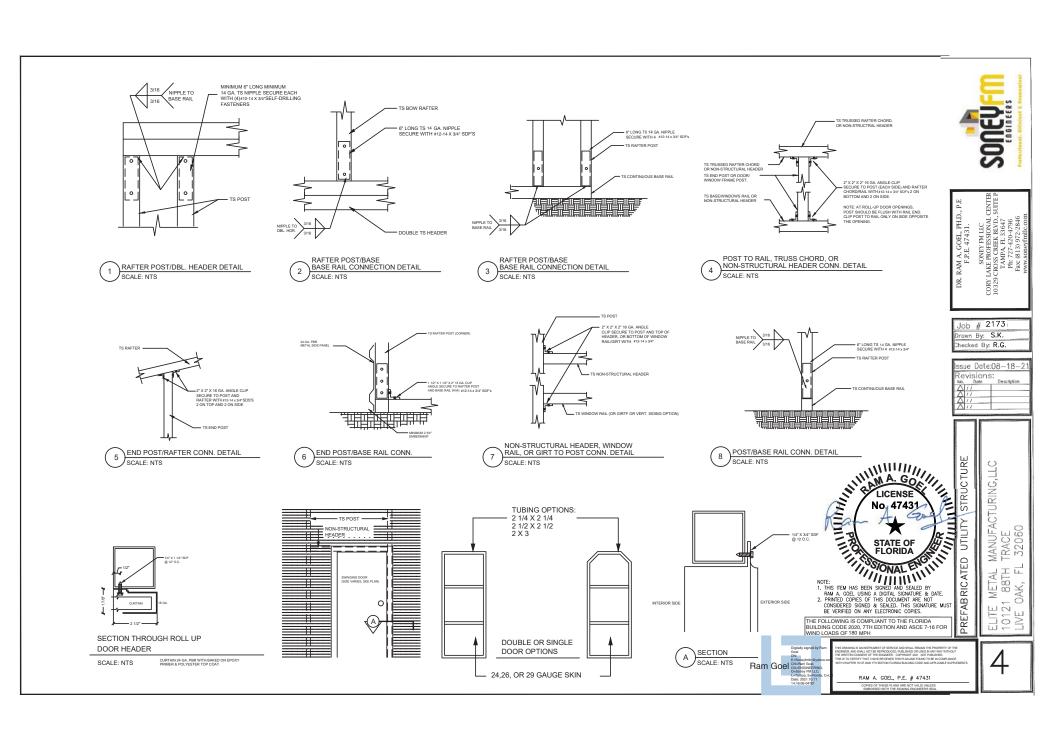
1. THIS ITEM HAS BEEN SIGNED AND SEALED BY
RAM A. GOEL USING A DIGITAL SIGNATURE & DATE.

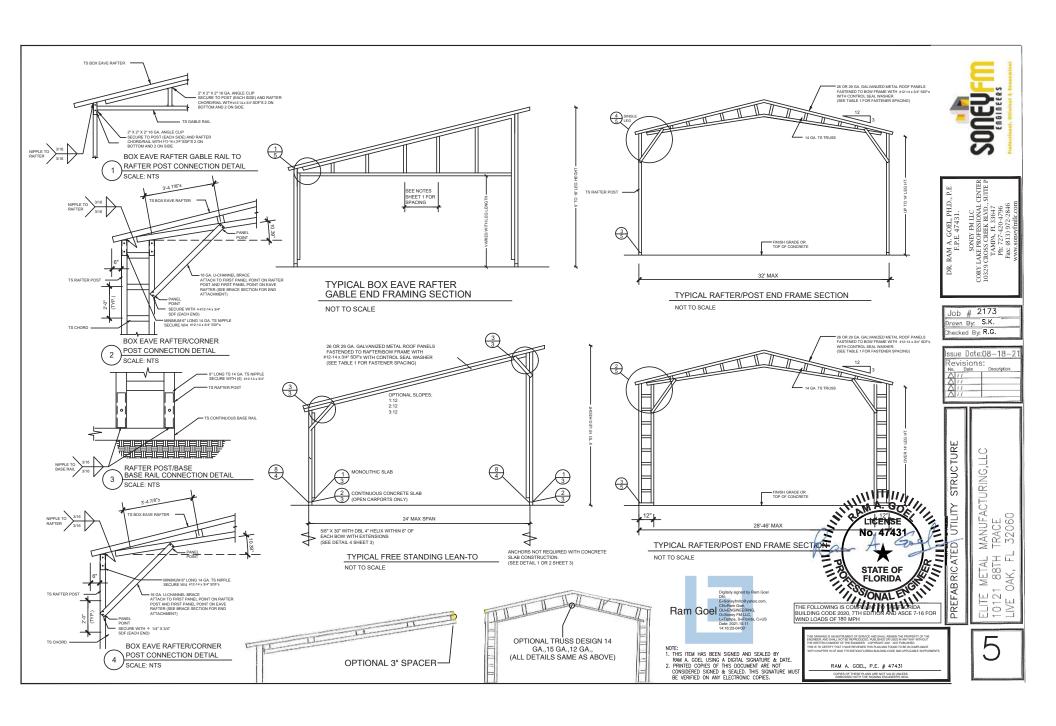
2. PRINTED COPIES OF THIS DOCUMENT ARE NOT
CONSIDERED SIGNED & SEALED. THIS SIGNATURE MUS
BE VERIFIED ON ANY ELECTRONIC COPIES.

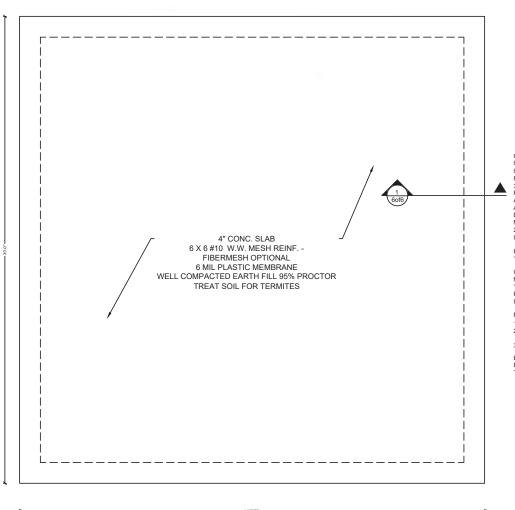
METAL

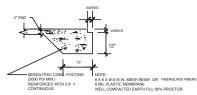












MONOLITHIC FOOTER (TYP.) SCALE: NTS

CONCRETE:

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 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 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:

Ram Goel

- 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 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.



- NOTE:

 1. THIS ITEM 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 MUS'
 BE VERIFIED ON ANY ELECTRONIC COPIES.

RAM A. GOEL, P.E. # 47431



SONEY FM LLC CORY LAKE PROFESSIONAL CE 10329 CROSS CREEK BLVD., SI TAMBA, H. 3847 Phr. 727-420-4796 Fax. (813) 972-2846

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

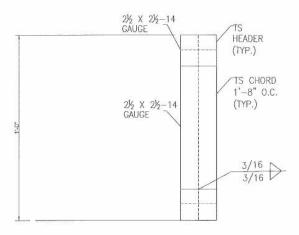
sue Date:08-18-2 Revisions: Date Description

> MANUFACTURING 00 ONC

W

O

OPTIONAL HEADER



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



SONEY FM LLC
CORY LAKE PROPESSIONAL CENTER
10329 CROSS CREEK RIVD., SUITE P
TAMPA, 133647
Ph. 722-420-4796
Fw. (813) 972-2846 DR. RAM A. GOEL, PH.D., P.E F.P.E. 47431.

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

ssue Date:08-18-2 Revisions:
No. Date



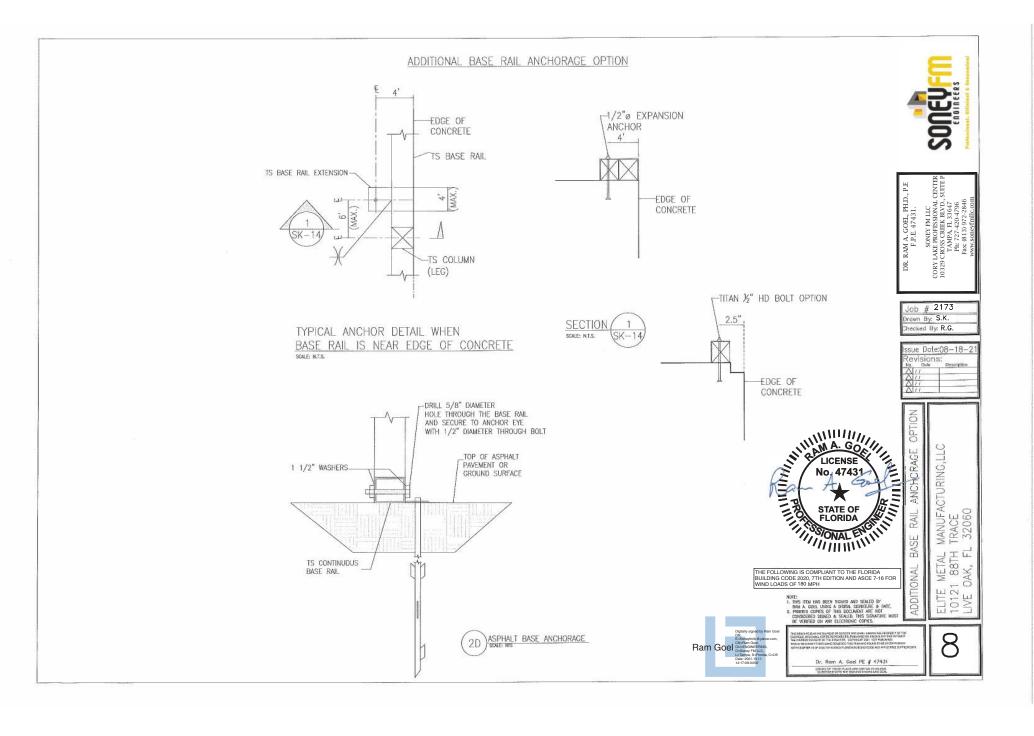
NOTE:
1. THIS ITEM HAS BEEN SCHED AND SEALED BY RAM A COCK USING A DIGITAL SIGNATURE & DATE, 22 PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED & SEALED. THIS SIGNATURE MUST BE MERRED ON ANY ELECTROMOG COPIES.

Digitally signed by FDN:
DN:
E-Scooryfmit@yah
CN-Ram Gool
OI-ENGWEETING
O-Scoory FMLEC,
LaTimoro, S-Ffordd
Digitally S-Ffordd
Digitally S-Ffordd
Latinoro, S-Ffordd
Digitally S-Ffordd
Digitally S-Ffordd
Digitally S-Ffordd

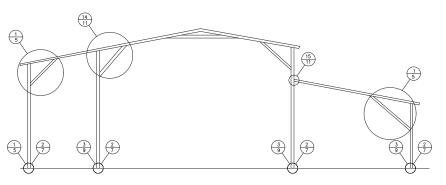
Or. Rom A. Goel PE # 47431 CONCE OF THOSE PLANS ARE NOT VALID UNLESS ENGOSED WITH THE SIGNAND ENGAGERS ARE

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

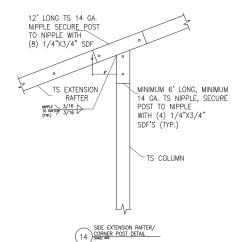
HEADER

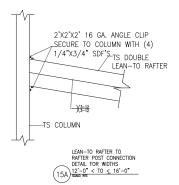


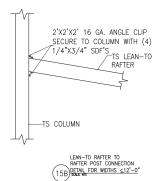
BOX EAVE RAFTER LEAN-TO OPTIONS



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











SONEY FW LLC
CORY LAKE PROFESSIONAL CENTER
10329 CROSS CREEK BIVD., SUITE P
TAMPA, EL 33647
www.soneyfinlc.com

Job	#2	173	
Drawn	Ву:	K.D.	
Checke	d By:	S.G.	

SSI	ue Date:	08-18-21
Re №.	visions	Description
\triangle	1.1	
Д	11	
ĻĄ	11	
\square	11	
_		

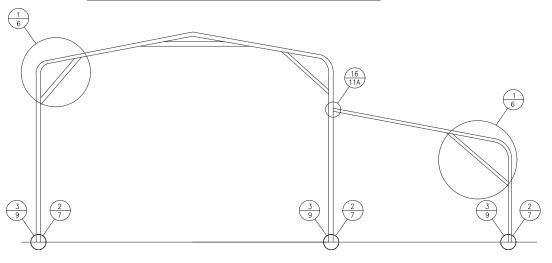
OPTIONS ELITE METAL MANUFACTURING,LLC 10121 88TH TRACE LIVE OAK, FL 32060 LEAN-TO

EAVE RAFTER ВОХ

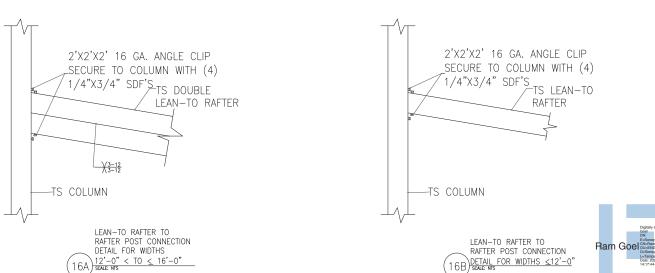
Dr. Ram A. Goel PE # 47431



BOX EAVE RAFTER LEAN-TO OPTIONS



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





PH-813-388-6090
SONEY FM LLC
CORY LAKE PROFESSIONAL CENTER
10329 CROSS CREER BLYD., SUITE P
TAMPA, FL 33647
www.soneyfmllc.com

Job	#2	173	
Drawn	Ву:	K.D.	
Checke	ed By:	S.G.	

ssi	ue Date:	08-18-21
Re ∾.	visions	Description
À	11	
菜	11	
\vdash	11	

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

NOTE:

1. THIS TIEM HAS BEEN SIGNED AND SEALED BY
RAM A. GOEL USING A DIGITAL SIGNATURE & PATE.
2. PRINTED COPIES OF THIS DOUMENT ARE NOT
CONSIDERED SIGNED & SEALED. THIS SIGNATURE MUST
BE VERBIED ON ANY FLOTEORISC COPIES.

THE ORNANCE IS AN INSTITUTION OF SERVICE AND SHALL REMAIN THE PROPERTY OF THE ENGINEER, AND SHALL NOT BE REPRODUCTION PRESCRIBED WILD THE ANY WAY WITHOUT THE WRITTEN CORRECT OF THE REMAINER. OF POYMER 225 OF ATTEMPT AND THE POYMER 225 OF ATTEMPT AND THE WRITTEN CORRECT OF THE POYMER AND POYMER 250 OF THE POYMER AND THE

n A. Goel PE # 47431 HESE PLANS ARE NOT VALID UNLESS WITH THE SIGNING PROMEETS SEAL

10