

Signature

Architect / Engineer

Seal

#### City of Venice Building Department 401 W. Venice Ave Venice, Fl. 34285



Phone (941) 486-2626 Fax (941) 486-2448 Inspections (941) 483-5907 Apply Online https://trakit.venicegov.com/eTRAKiT/

#### **RESIDENTIAL DATA SUMMARY WORKSHEET**

Owners Name	D R HORTO		tion Documents				P.I.D.			
Project Address			OKOMIS , FL, 342	 275			-			
Design Professional	Structural Sy				Phone	239-549-4	- 554	Fax		
Contractor	DR HORTON					239-225-60		Fax		
Applicable Codes						Manufact	urer / FL P	roduct	Approval / N	 NOA #
Building Code	Florida Buildin	g Code	2020 Residential	Volume		Doors / S	-		ndow FL22401	
Mechanical Code	Florida Buildin	_	2020 Residential	Volume		Windows	5	SH	H Windows - F	L17676.1
Plumbing Code	Florida Buildir	ng Code	2020 Residential	Volume		Overhead	d Doors	Wayn	ne Dalton FL91	74.1/9174.3
Electrical Code	NFPA 70 / NE	C 2020				Mitered	Glass		N/A	
Accessibility Code	Florida Buildin	g Code	FACBC 2020			Shutters		ALL	AMERICAN -	FL17869.1
Energy Code	Florida Buildin	g Code	Residential Energy	/ Efficiency 2020	)	Roof Cov	erings	Eagle	e Roofing - FL	7473.1 (R9)
			0.	•		Soffit	-	KAYO	CAN LTD - FL2	24564.3 (R4)
						Sentricon	Bait		BORA CA	RE
Method of Design per R301 / R	esidential Volun	ne								
AF&PA (WFC	M)		_ASCE 7		AISI (COFS/F	PM)		ICC 600	)	
MAF Guide			Other							
X FBC 2020 / R	esidential					-				
Volume <b>Construct</b>		v v	( circle one )	Other _		VB				
Design Wind Speed	160		m.p.h.	R301.2 (4)			WIND	OW & D	OOR WIND	
Importance Factor	1.0						PRESSU	RE DESI	GN LOADING	
Wind Debris Area	Yes	— No	Exposure	B of C	(tircle one)	Mean f	Roof Height		15	feet
	()		ZAPOSU. C		y o.e oe,		Windows		33.5, -44.8	psf
Structural Forces	Section R301.4	1 / D2O1 5	/ P201 6			1	Doors		33.5, -44.8	psf
				•					-29.4,-33.3	
Floor Desig		ive Load ead Load	40 Slab On Grade	p.s.f p.s.f		Ga	rage Doors		29.4,-33.3	psf
Roof Desig	n L	ive Load	20	p.s.f			Please Show	v Design	Pressure	
_	De	ead Load	TC=20 BC=10				for Worst C	ase ONL	.Y	
Components and Cladding Desi	gn Pressures:	R301.2 (7	)							
+24.0 44.9	p.s.f.	•	z <sub>3</sub> +24.9,	-61.7	o.s.f.		z5 +33	.5, -44.8	8 <sub>p.s.f.</sub>	
124.0 61.7			122 5	26.2					p.s.r. 4 ft.	
	p.s.f.		Z4	F	o.s.f.		a= edge dist	ance		_
Misc. Notes For Specific	window and d	oor press	sures, see Sheet A	A3 or S-2, which	chever	Area Tabula Living	ation 1,44	1	sf / Conditione	nace
one is seale			,	,		Garage	395		sf	и эрисс
						Lanai	115		sf	
						Entry	53		sf	
						Storage Other			sf sf	
						Other	2,00	 7	Total square fo	ootage
							2,00			
I certify to the best of my knowl	ledge and belief,	these pla	ns and specification	ns have been de	signed to co	omply with th	ne			111111
structural portion of the Buildin								.111	NO AUL RE	YEON
								1111	RAUL RE	

Residential Data Summary Worksheet

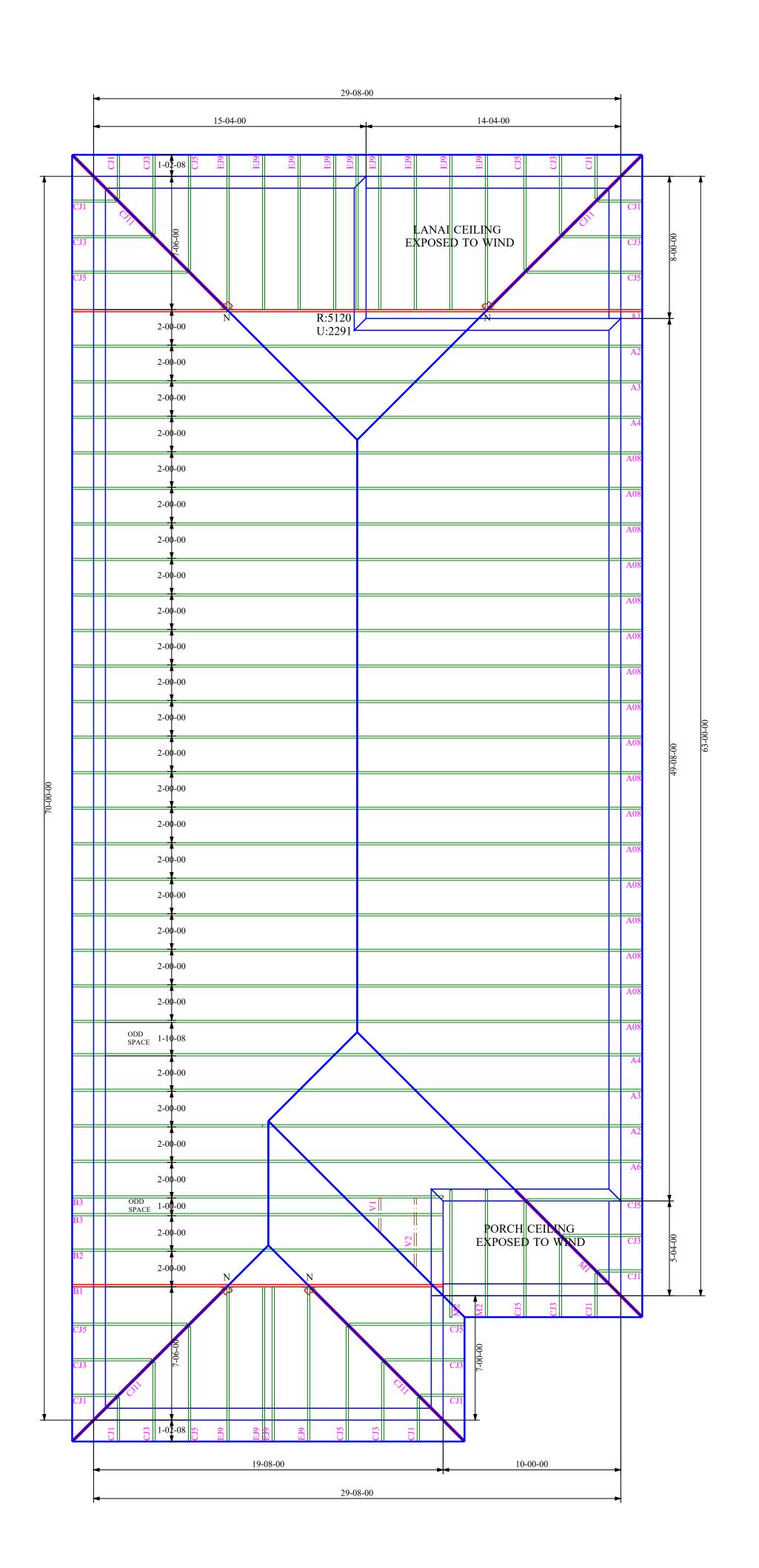
This item has been digitally signed by Raul Reyes on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be validated on any electronic copies.

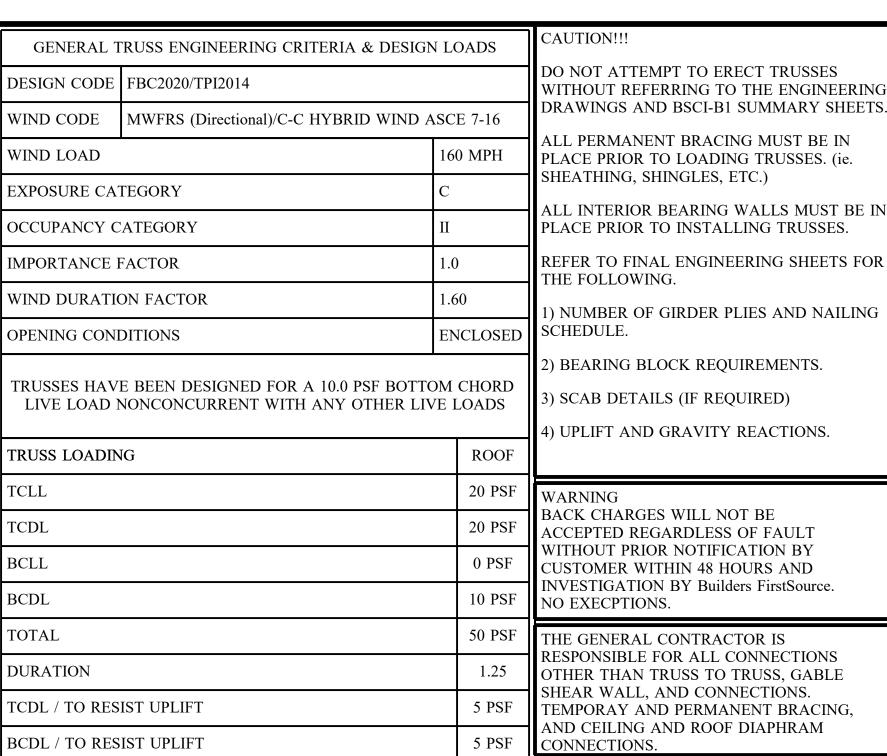
JOB No.	MASTER
DATE DRAWN	6/26/2020
DATE PRINTED	1/22/2021

Engineer of Record for the Structure Structural Systems of N. Fl, Inc. Raul Reyes, PE 88925 1634 SE 47th Street #3 Cape Coral, FL 33904

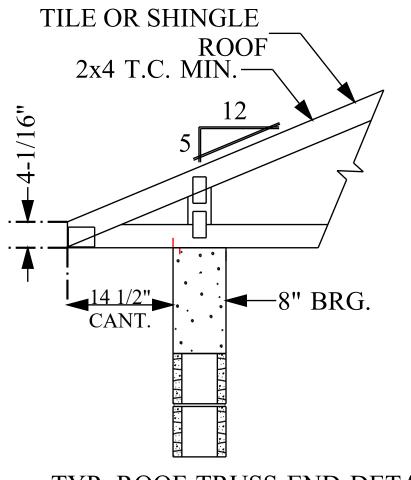
This document has been reviewed for conformance with the design intent of the structure and specified design criteria.

Accepted Accepted Revise and As Noted Resubmit





### BEARING HEIGHT SCHEDULE 9'-4" BEARING HEIGHT



TYP. ROOF TRUSS END DETAIL

### ALL 9'-4" FLAT CEILINGS

ID	QTY/RF	QTY/FL	MODEL	FLOOR	ROC	OF U	PLIFT	SYMBOL
<b>A*</b>	0	0	LUS24	725	89:	5	490	∫ [A*
A	0	0	HTU26	2940	3200 /	3600 125	50 / 1555	JLA
В	0	0	HTU28	3820	3895 /	4680 123	35 / 2140	J∟В
С	0	0	HTU26-2	2940	360	0 151	5 / 2175	J LC
D	0	0	HTU28-2	3820	4310 /	4680 153	30 / 3485	] LD
Е	0	0	HGUS26-2	4355	532	0	2155	JLE
F	0	0	HGUS28-2	7460	746	0	3235	JLF
G	0	0	HGUS26-3	4355	523	0	2155	JLG
Н	0	0	HGUS28-3	7460	746	0	3235	J LH
I	0	0	HGUS210-4	9100	910	0	4095	] [I
J	0	0	SUL26	865	105	5	765	₹/_ J
K	0	0	SUR26	865	105	5	765	√ K
L	0	0	SUL210	1440	176	0	1250	₹/_ L
M	0	0	SUR210	1440	176	0	1250	$\searrow M$
N	4	0	THJA26	2680	326	5	960	<b>₹ N</b>
О	0	0	HJC26	2385	298	0	1840	O
P	N/A	0	HHUS46	2790	341	0	1550	
Q	N/A	0	THA422	2245	224	5	1855	JLQ
R	N/A	0	THAC422	2245	224	5	1855	J L R
S	N/A	0	THA426	2435	243	5	1855	JLS

) ALL DIMENSIONS ARE FEET-INCHES-SIXTEENTHS.

2) DO NOT CUT OR ALTER TRUSSES IN ANY WAY. 3) ALL REACTIONS ARE UNDER 5000 LBS. UNLESS NOTE OTHERWISE.

4) ALL UPLIFTS ARE UNDER 1000 LBS. UNLESS NOTED OTHERWISE.

5) FRAMING REQUIRED BELOW TRUSSES TO GET DESIRED CEILING CONDITIONS 6) ONLY TRUSS TO TRUSS CONNECTIONS SUPPLIED W/ TRUSS PACKAGE.

CAUTION!!!

DO NOT ATTEMPT TO ERECT TRUSSES WITHOUT REFERRING TO THE ENGINEERING DRAWINGS AND BSCI-B1 SUMMARY SHEETS.

ALL PERMANENT BRACING MUST BE IN PLACE PRIOR TO LOADING TRUSSES. (ie. SHEATHING, SHINGLES, ETC.)

ALL INTERIOR BEARING WALLS MUST BE IN PLACE PRIOR TO INSTALLING TRUSSES.

THE FOLLOWING. 1) NUMBER OF GIRDER PLIES AND NAILING

2) BEARING BLOCK REQUIREMENTS.

3) SCAB DETAILS (IF REQUIRED)

4) UPLIFT AND GRAVITY REACTIONS.

BACK CHARGES WILL NOT BE ACCEPTED REGARDLESS OF FAULT WITHOUT PRIOR NOTIFICATION BY CUSTOMER WITHIN 48 HOURS AND INVESTIGATION BY Builders FirstSource. NO EXECPTIONS.

THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL CONNECTIONS OTHER THAN TRUSS TO TRUSS, GABLE SHEAR WALL, AND CONNECTIONS. TEMPORAY AND PERMANENT BRACING, AND CEILING AND ROOF DIAPHRAM CONNECTIONS.

5/12

ROOF PITCH

CEILING PITCH	I	FLAT
TOP CHORD SI	ZE	2 x 4 MIN.
воттом снов	RD SIZE	2 x 4 MIN.
OVERHANG LE	ENGTH	N/A
CANTILEVER		14 1/2"
END CUT		PLUMB
FLOOR TRUSS	SPACING	N/A
ROOF TRUSS S	PACING	24"
BIJII DFR	DR Horton	

DK Horton ROILDEK PROJECT 1444 A 160 C LH MODEL 1444 ADDRESS CITY, STATE | --, FL. COUNTY DRAWN BY

**REVISIONS** 

DATE NOTES

D.W.

ENG. BY

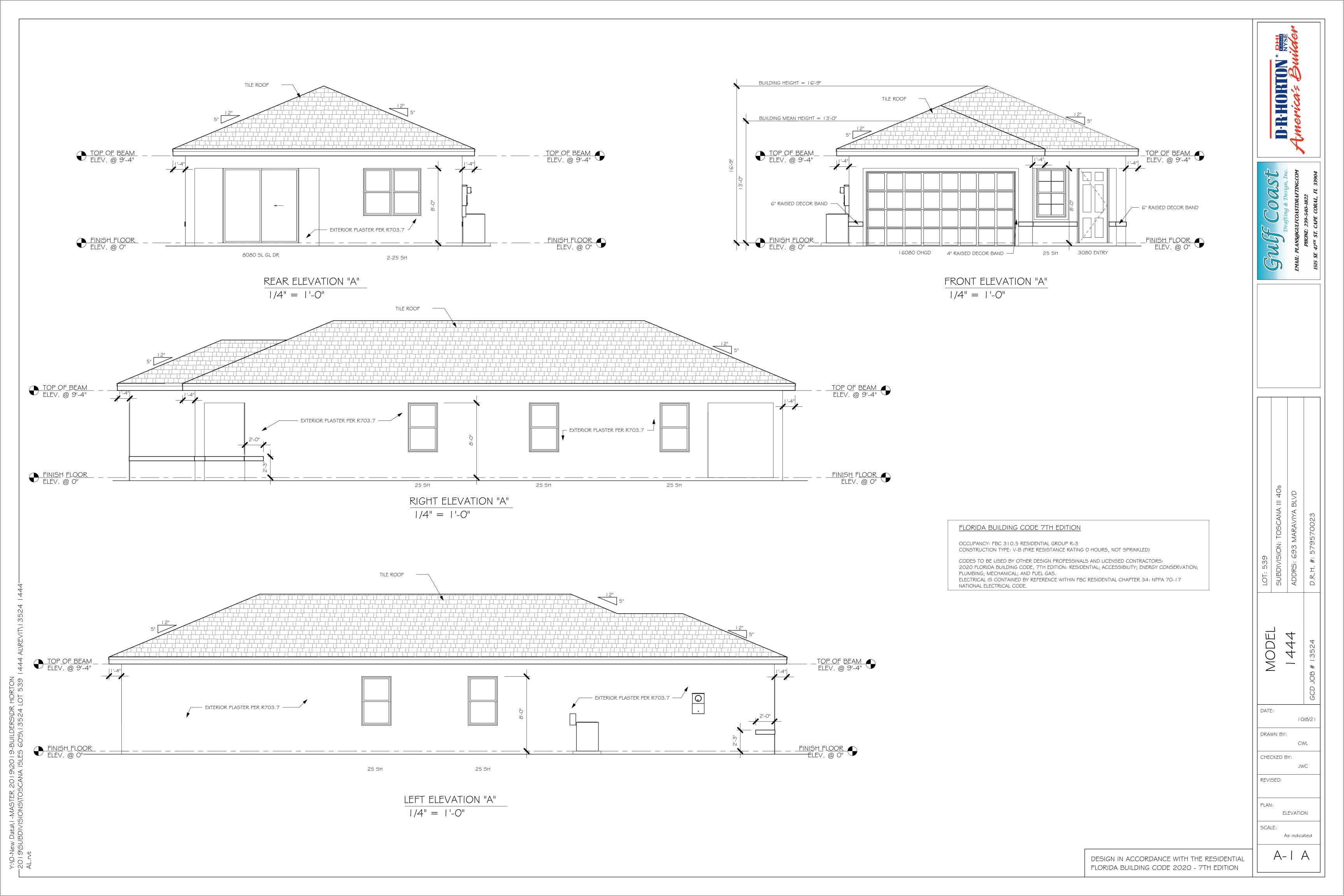
**IMPORTANT** 

This Drawing Must Be Approved And Returned Before Fabrication Will Begin. For Your Protection Check All Dimensions And Conditions Prior To

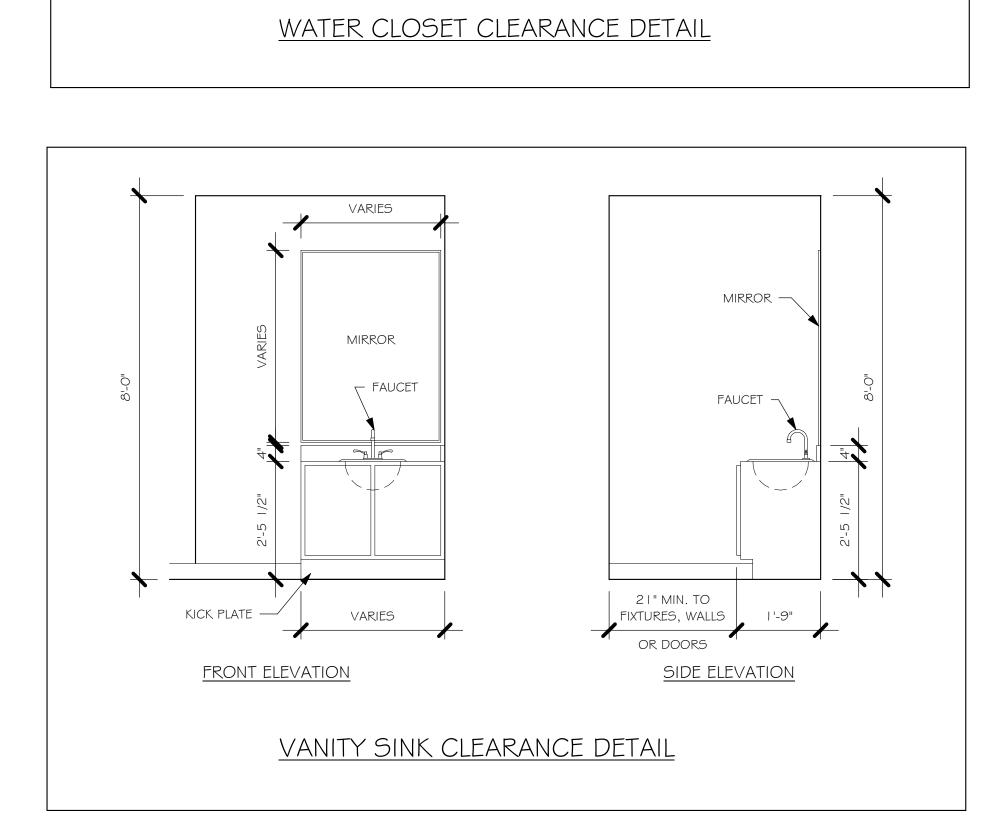
Approval Of Plan.
SIGNATURE BELOW INDICATES ALL NOTES AND DIMENSIONS HAVE BEEN ACCEPTED.

6850 Taylor Road Punta Gorda, Fl. 33950 Phone: 941-575-2250 / Fax:941-575-0319





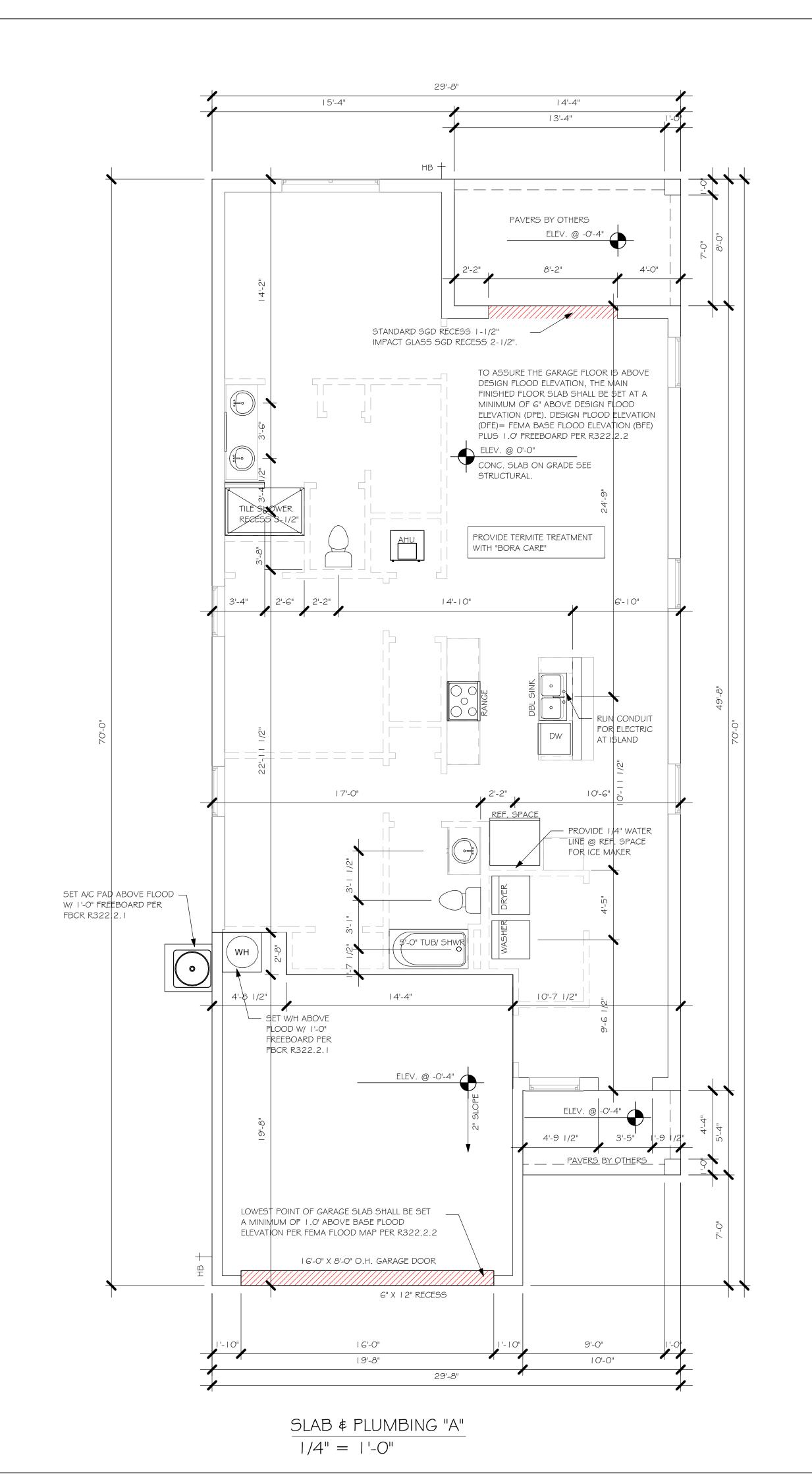


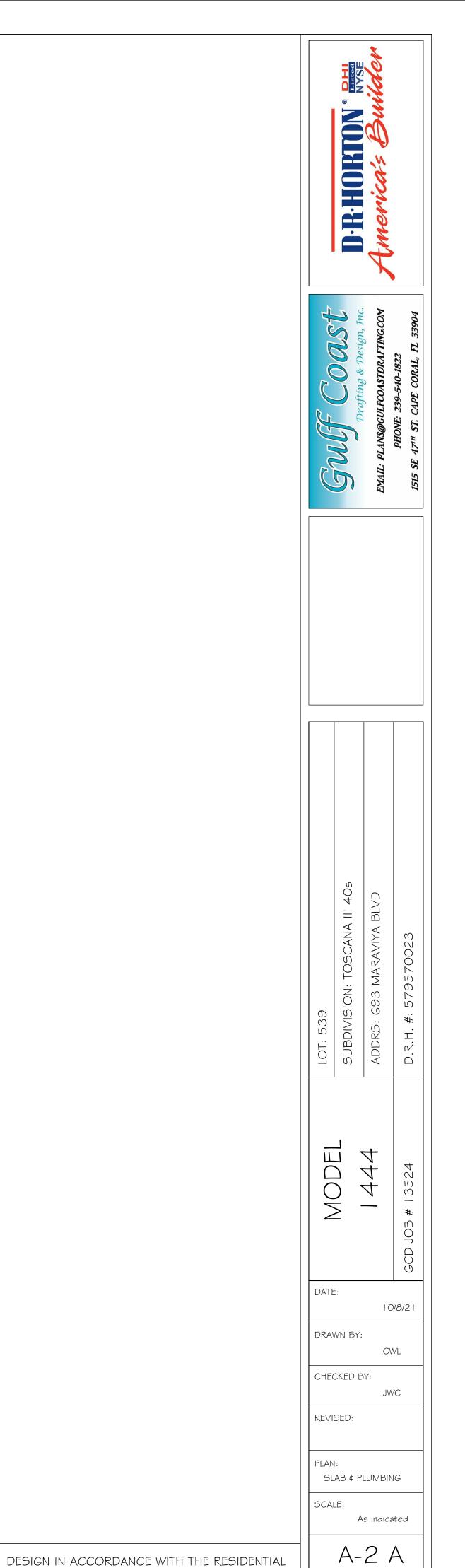


FRONT ELEVATION

36" MAX.

SIDE ELEVATION





FLORIDA BUILDING CODE 2020 - 7TH EDITION

	DOOR SCHEDULE					
MARK	DESCRIPTION	MANUFACTURER	HEIGHT	WIDTH	COMMENTS	QTY
				•		
1	3080 ENTRY	DISTINCTION	8'-0"	3'-0"		1
2	2-4080 SL. GL. DR.	DISTINCTION	8'-0"	8'-0"		1
3	16080 OHGD	GARAGE	8'-0"	16'-0"		1

WINDOW SCHEDULE						
MARK	DESCRIPTION	MANUFACTURER	HEIGHT	WIDTH	COMMENTS	QTY
·						
Α	25 SH		5'-5"	3'-4"		6
В	2-25 SH		5'-3"	6'-4"		I

OPT IMPACT GLASS MAY BE INSTALLED IN LIEU OF SHUTTERS VERIFY W/ CONTRACT

DOOR HEADERS				
6'-8" BI-FOLD	HEADER HEIGHT	82" A.F.F.		
6'-8" SWING	HEADER HEIGHT	82 I/2" A.F.F.		
8'-0" SWING	HEADER HEIGHT	98 I/2" A.F.F.		

DOOKTILADLIA				
6'-8" BI-FOLD	HEADER HEIGHT	82" A.F.F.		
6'-8" SWING	HEADER HEIGHT	82 1/2" A.F.F.		
8'-0" SWING	HEADER HEIGHT	98 I/2" A.F.F.		
PLAN NOTES				

ALL WINDOWS AND DOORS PROVIDE SAFETY GLAZING WITHIN 24" FROM EXIT PER FLORIDA BUILDING CODE R 308.4.2.

I) VERIFY ALL ROUGH OPENING DIMENSIONS FOR

- PROVIDE SAFETY GLAZING AT BATH/ SHOWER PER FLORIDA BUILDING CODE R 308.4.5.
- NON BEARING INTERIOR FRAME WALLS SHALL BE FRAMED W/ WOOD OR METAL STUDS. SPACING SHALL NOT EXCEED 24" O.C. (NON BEARING WALLS ONLY)
- PROVIDE DEAD WOOD IN ATTIC FOR OVERHEAD GARAGE DOOR HARDWARE
- 6) KITCHEN KNEE WALL TO BE FRAMED W/ TOP @ 34 I/2" A.F.F.
- INSTALL SMOOTH WALLS IN KITCHEN AND ALL BATHROOM AREAS
- WHERE DRYWALL CEILING IS APPLIED TO TRUSSES @ 24" O.C. USE 5/8" DRYWALL OR 1/2" SAG RESISTANT PER SEC. R702.3.5
- THE GARAGE SHALL BE SEPARATED FROM THE RESIDENCE \$ ATTIC BY NOT LESS THEN 1/2" GYPSUM BOARD APPLIED TO THE GARAGE SIDE. GARAGES BENEATH HABITABLE ROOMS SHALL BE SEPARATED WITH NOT LESS THAN 5/8" TYPE "X" GYPSUM BOARD OR EQUIVALENT. WHERE THE SEPARATIION IS A FLOOR - CEILING ASSEMBLY, THE STRUCTURE SUPPORTING THE SEPARTION SHALL ALSO BE PROTECTED BY NOT LESS THAN 1/2" GYPSOM BOARD OR EQUIVALENT
- 10) INSTALL 1 3/8" THICK SOLID WOOD DOOR BETWEEN LIVING AND GARAGE PER FLORIDA BUILDING CODE R302.5.1.
- II) ALL WINDOWS INSTALLED 72" ABOVE GRADE MUST COMPLY WITH R3 | 2.2 MIN 24" SILL HEIGHT OR PROVIDED WITH AN APPROVED WINDOW FALL PREVENTION DEVICE
- 12) ALL CLOSET SHELVES TO BE 12". ALL PANTRY \$ LINEN TO BE (4)-16" SHELVES 18" O.F.F. W/ 15" INCREMENT.
- 13) ALL MECHANICAL AND ELECTRICAL EQUIPMENT TO BE INSTALLED AT OR ABOVE FLOOD PLUS 1'-0" FREEBOARD.

	BATHROOM NOTES
TB TOWEL BAR	ALL TUB DECKS @ 21" A.F.F
TP TOILET PAPER	ALL BLOCKING TO BE PT IN SHOWERS
10-14	TOWEL BAR  TOILET PAPER ROLL  A" A" A" MINMIN.

SQUA	RE FOOTAGE	
ANAI AREA		115 SF
VING AREA		1444 SF
NTRY AREA		53 SF

GARAGE AREA

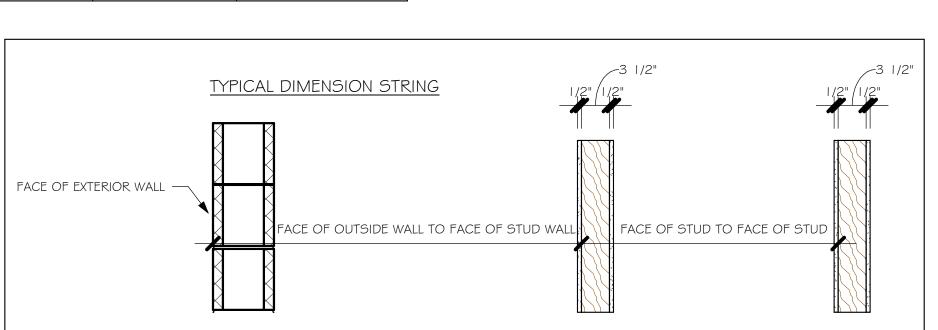
TOTAL AREA

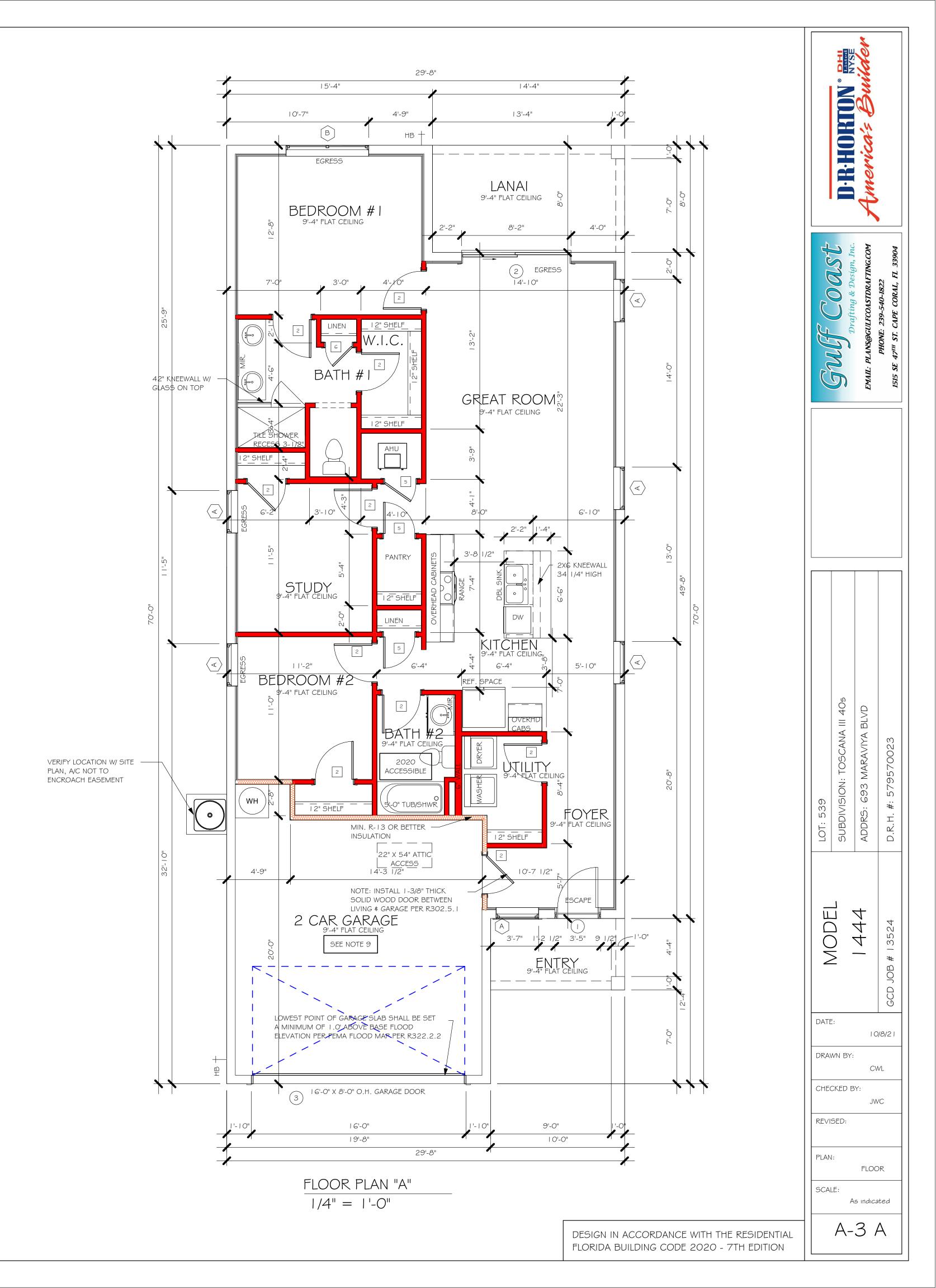
395 SF

2007 SF

INTERIOR DOOR SCHEDULE				
MARK	DOOR WIDTH	NOTES		
	3'-0"	P.K. = POCKET DOOR		
2	2'-10"	B.F. = BI-FOLD DOOR		
3	2'-8"	D.1 DI-1 OLD DOOK		
4	2'-6"	B.P. = BI-PASS DOOR		
5	2'-4"	L.V. = LOUVERED DOOR		
6	2'-0"			
7	1'-8"			
8	1'-6"			

CABINET BACKING				
UPPER TOP @ 84"	BASE TOP @ 35"			
UPPER	BASE TOP @ 35"			
UPPER	BASE TOP @ 31"			
UPPER TOP @ 84"	BASE			
	UPPER TOP @ 84" UPPER UPPER			



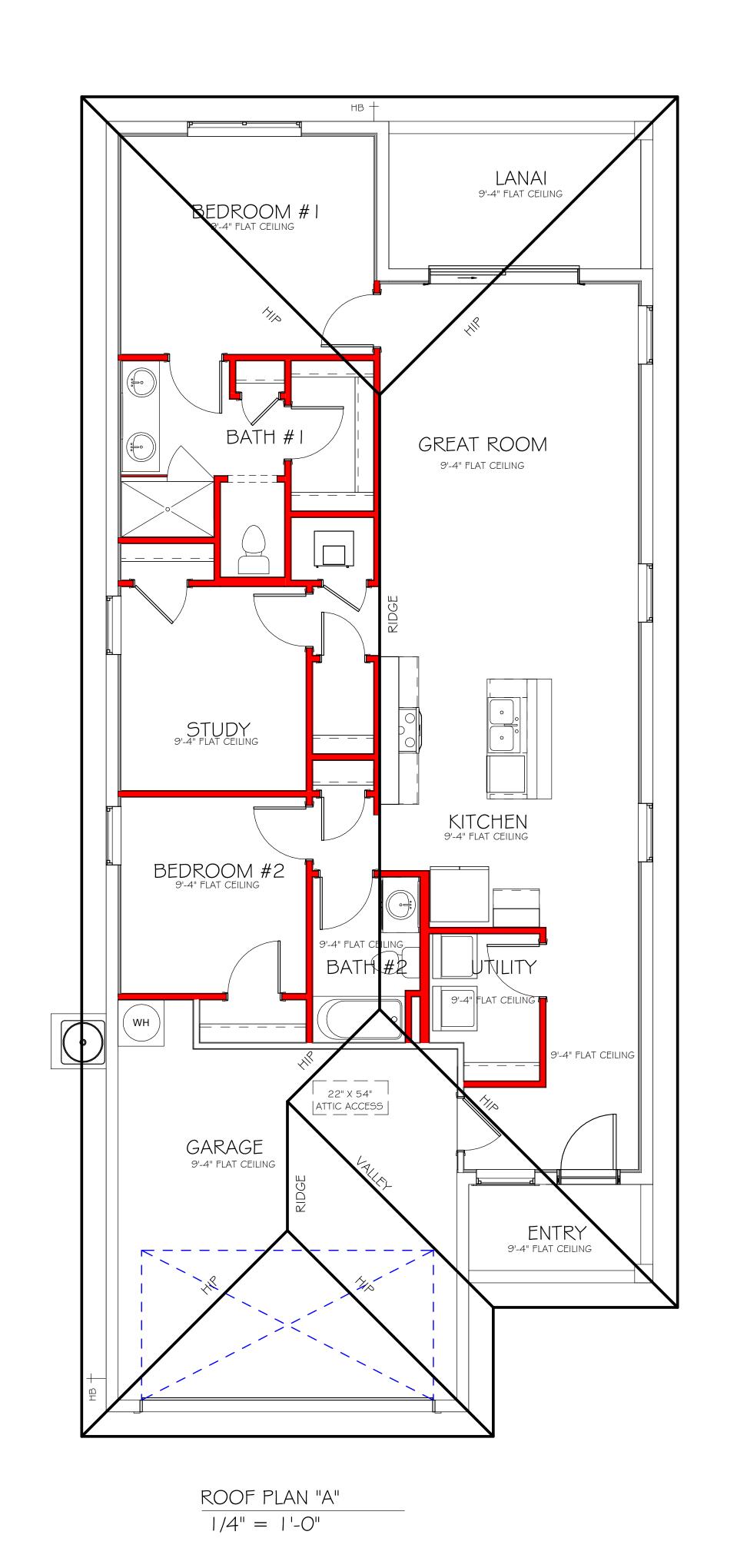


#### MODEL 1444 A: ATTIC VENTILATION FBCR R806 COORDINATE VENTING REQUIREMENTS WITH ENERGY CALCULATIONS SOFFIT ONLY (1/150) (NO ROOF VENTS) WITH ROOF VENTS (1/300) (R.V.) AREAS (SQ. FT.) ATTIC VENTILATION REQUIRED ATTIC VENTILATION REQUIRED ATTIC AREA/300 QUANTITY OF ROOF VENTS MIN AIR FLOW OF SOFFIT ATTIC AREA/150 REQ'D AIR FLOW QUAD 4 SOFFIT HAS 15.02 SQ.FT. 6.09% 8.15% MARK ATTIC SOFFIT 1st STORY 2253.4 SQ. FT. 246.7 SQ. FT. ROOF VENTS ARE NOT REQUIRED "SOFFIT ONLY" QUALIFIES ROOF VENT MODEL SOFFIT MODEL ACM QUAD 4, FULL VENT, NARROW PATTERN,

LOMANCO 770-D 0.97 SQ. FT. FREE AIR

8.15% FREE AIR FLOW

BEARING HEIGHT = BEARING @ 9'-4"



MODEL DATE: 10/8/21 DRAWN BY: CWL

CHECKED BY:

REVISED:

PLAN:

SCALE:

DESIGN IN ACCORDANCE WITH THE RESIDENTIAL FLORIDA BUILDING CODE 2020 - 7TH EDITION

JWC

ROOF

As indicated

A-4 A

	220 V RECEITABLE OUTLET
<b>+</b>	4-PLEX RECEPTACLE OUTLET
$\ominus$	DUPLEX RECEPTACLE OUTLET
	1/2 SWITCHED DUPLEX OUTLET
AFF	DUPLEX RECEPTACLE AT ELEV. A.F.F.
$\overline{}$	DUPLEX RECEPTACLE - ABOVE COUNTER
$\Theta$	SINGLE POLE SWITCH
<del>()</del> 3	3 WAY SWITCH
<del>()</del> □	DIMMER SWITCH
₩ <sup>S</sup>	MOTION SENSOR SWITCH
S <sub>SCD</sub>	AC/DC SMOKE DETECTOR TO BE INTERCONNECTED ANY RESIDENT HAVING A FOSSIL-BURNING HEATER OR APPLIANCE, A FIREPLACE, OR AN ATTACHED GARAGE SHALL HAVE AN OPERATIONAL CARBON MONOXIDE ALARM INSTALLED WITHIN 10 FEET OF EACH ROOM USED FOR SLEEPING PERPOSES. PER RULE 9B-3.04.72 SD (SMOKE DETECTOR) SCD (CARBON MONOXIDE/ SMOKE DETECTOR)
<b>-</b> T	TELEPHONE OUTLET
-[TV]	TELEVISION RECEPTION OUTLET
<del>-</del>	SURFACE MOUNTED CEILING LIGHT
	FLUSH MOUNTED LIGHT
Ю	WALL MTD. BRACKET LIGHT
46	DUPLEX FLOOD LIGHT
0	EXHAUST FAN
$\Box$ $\Box$	TRACK MTD. LIGHTS
□-	A/C DISCONNECT
Ю	PUSH BUTTON (PB) / DOOR BELL (DB)
(IC)	INTERCOM
P	KEYPAD
<u> </u>	4' FLUORESCENT LIGHT
<u> </u>	2' UNDER COUNTER LIGHT
NOTE: NO	OT ALL SYMBOLS ARE USED FOR THIS
PROJECT	
ARC-FAUI RESISTAN IN DWELLI ALL ELEC OR ABOV	AL NOTES:  LT CIRCUIT-INTERRUPTERS AND TAMPER  IT RECEPTACLES SHALL BE INSTALLED  ING UNITS PER N.E.C 210.12 AND 406.11  TRIC, ELECTRICAL EQUIPMENT ABD APPLIANCES TO BE SET AT  IE BASE FLOOD ELEVATIONS PLUS 1'-0" FREEBOARD.  ETS IN WET AREAS AND ALL  RECOUTLETS TO BE GFI'S.
INSTALL F	PHONE AND T.V PER CONTRACT.
INSTALL A	ALL ELECTRICAL PER NEC 2017

ELECTRICAL LEGEND

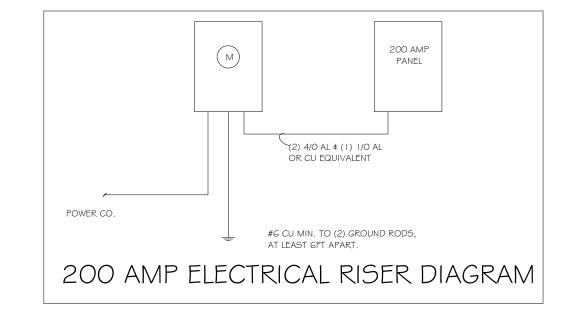
) | 120 V JUNCTION BOX

220 V RECEPTACLE OUTLET

SINGLE RECEPTACLE OUTLET

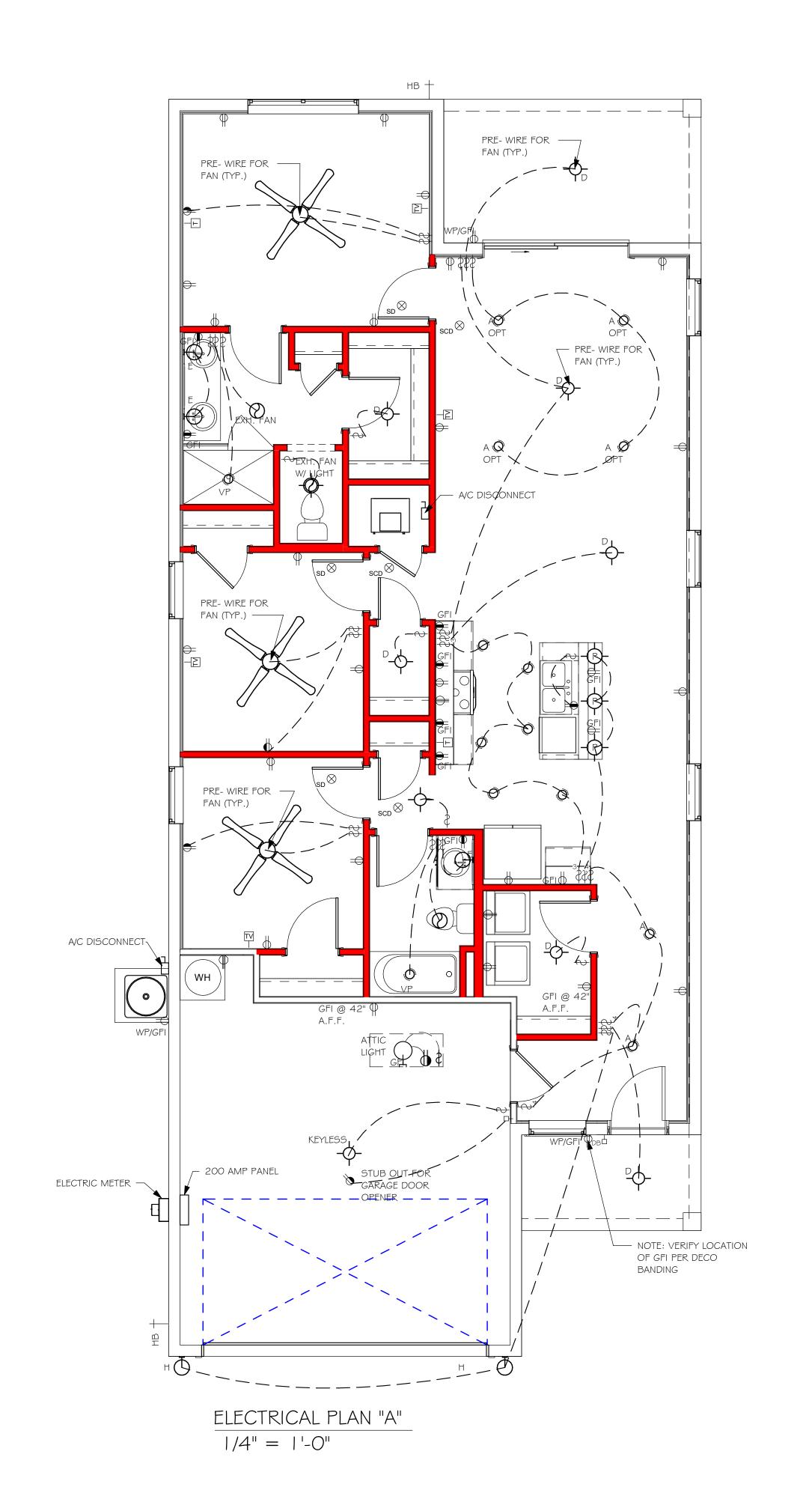
ELECTRICAL METER

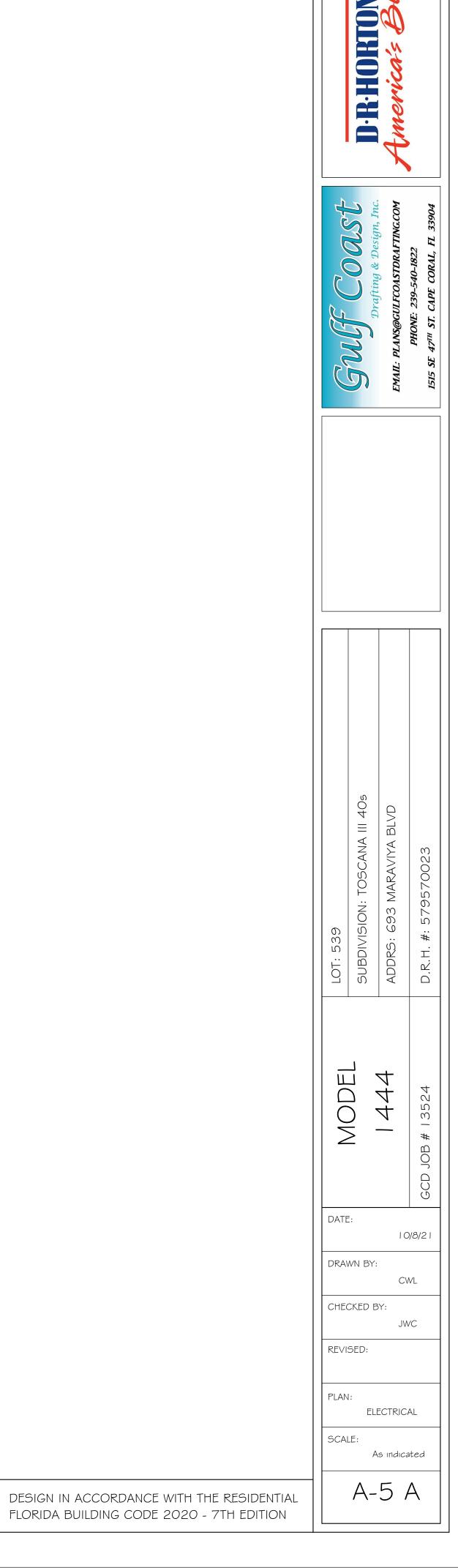
ELECTRICAL PANEL



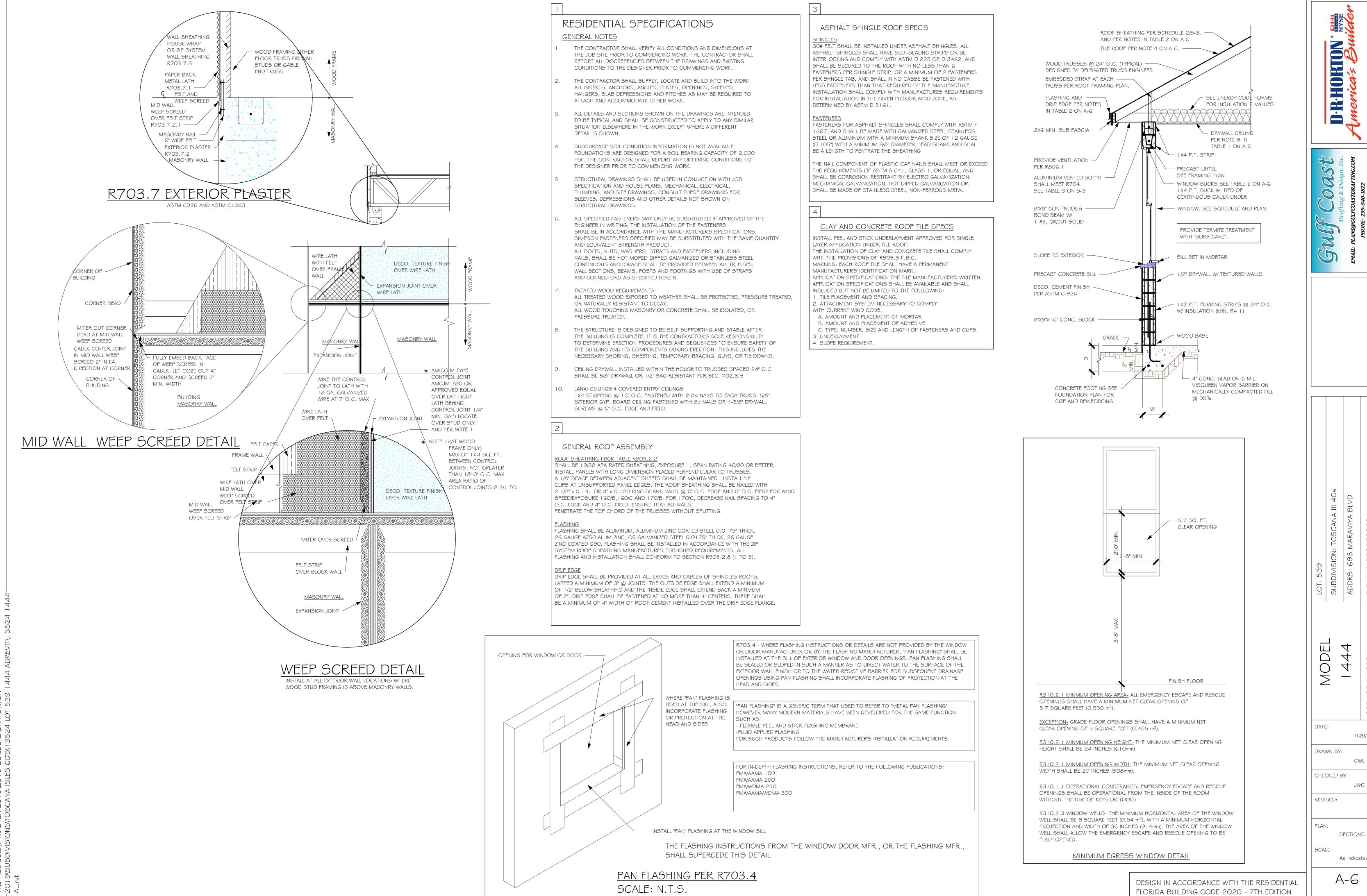
#### ELECTRICAL PLAN 1444

200	AMP SERVICE	
TAG	QUANTITY	PRODUCT
Α	(4)	(FLUSH MOUNTED LT)
В	(X)	(VAPORS)
С	(2)	(PENDANT LIGHT
D	(7)	(10" MUSHROOMS)
E	(3)	(24" 3 LT)
F	(X)	(36" 4 LT)
G	(X)	(NOT USED)
Н	(3)	(COACH LIGHTS)
1	(X)	
J	(X)	(J BOX)
Κ	(1)	(4' FLUORESCENT)
L	(1)	(2' FLUORESCENT)
Μ	(X)	(5LT CHANDELIER)
Ν	(X)	(3 LT)
0	(X)	(PENDANT/ NOOK)
Р	(X)	(X)
Q	(X)	(X)



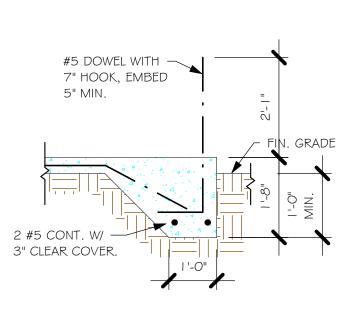


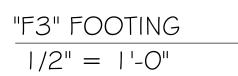
FLORIDA BUILDING CODE 2020 - 7TH EDITION



10/8/21

As indicated



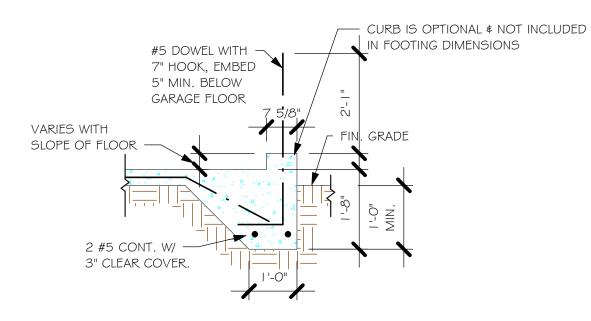


## SCALE: 1/4" = 1'-0" PLAN NOTES:

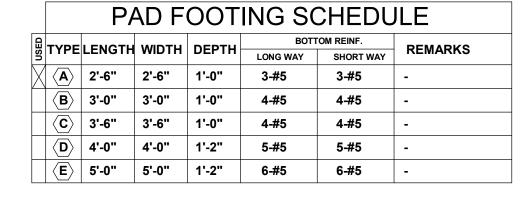
**FOUNDATION PLAN** 

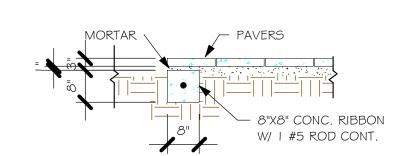
TOP OF GROUND FLOOR SLAB DATUM ELEVATION 0'-0"

- \_\_F#" DENOTES CONTINUOUS WALL FOOTING TYPE PER SCHEDULE THIS SHEET.  $\langle \# \rangle$  DENOTES PAD FOOTING AT CONCENTRATED LOADS PER SCHEDULE THIS SHEET.
- PROVIDE #5 VERTICAL REINFORCING AT DOT LOCATIONS SHOWN ON PLAN FROM FOOTING
- ALL DIMENSIONS ARE TO OUTSIDE FACE OF MASONRY WALLS. SOME SLAB EDGES MAY EXTEND BEYOND FACE OF WALL.
- FOR DIMENSIONS OF ROUGH OPENINGS IN MASONRY WALLS, COORDINATE WITH WINDOW/
- DOOR SUPPLIER. PROVIDE PRESSURE TREATED BUCKS AT WINDOWS/ DOORS PER DETAIL 7/S-3.

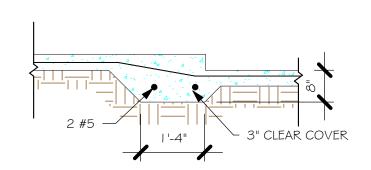


"F3" WITH CURB AT GARAGE 1/2" = 1'-0"





"P" PAVERS DETAIL ENTRY/ LANAI 1/2" = 1'-0"

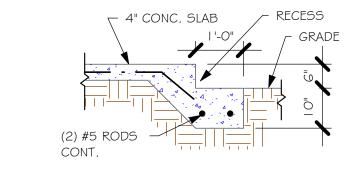


"F6" STEP DOWN 1/2" = 1'-0"

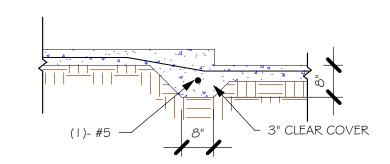
\Λ/ΔΙΙ	FOOTING	SCHEDIII	F

	V V /	ALL	-00	IIIVG	SOUEL	JULE	
USED	TYPE	LENGTH	WIDTH	DEPTH	BOTTOM REINFORCING	SHAPE	
	F1	CONT.	1'-4"	0'-8"	2-#5		
	F2	CONT.	1'-8"	0'-10"	2-#5		ADD CURD TO
$\langle$	F3	CONT.	1'-0"	1'-8"	2-#5		ADD CURB TO GARAGE, SEE DETAIL
	F4	CONT.	1'-4"	1'-8"	2-#5		
	F5	CONT.	1'-4"	1'-0"	2-#5	<b>—</b>	
	F6	CONT.	1'-4"	1'-0"	2-#5		
$\langle$	F6A	CONT.	0'-8"	0'-8"	1-#5		
	TE	CONT.	0'-8"	0'-8"	1-#5	Ţ	

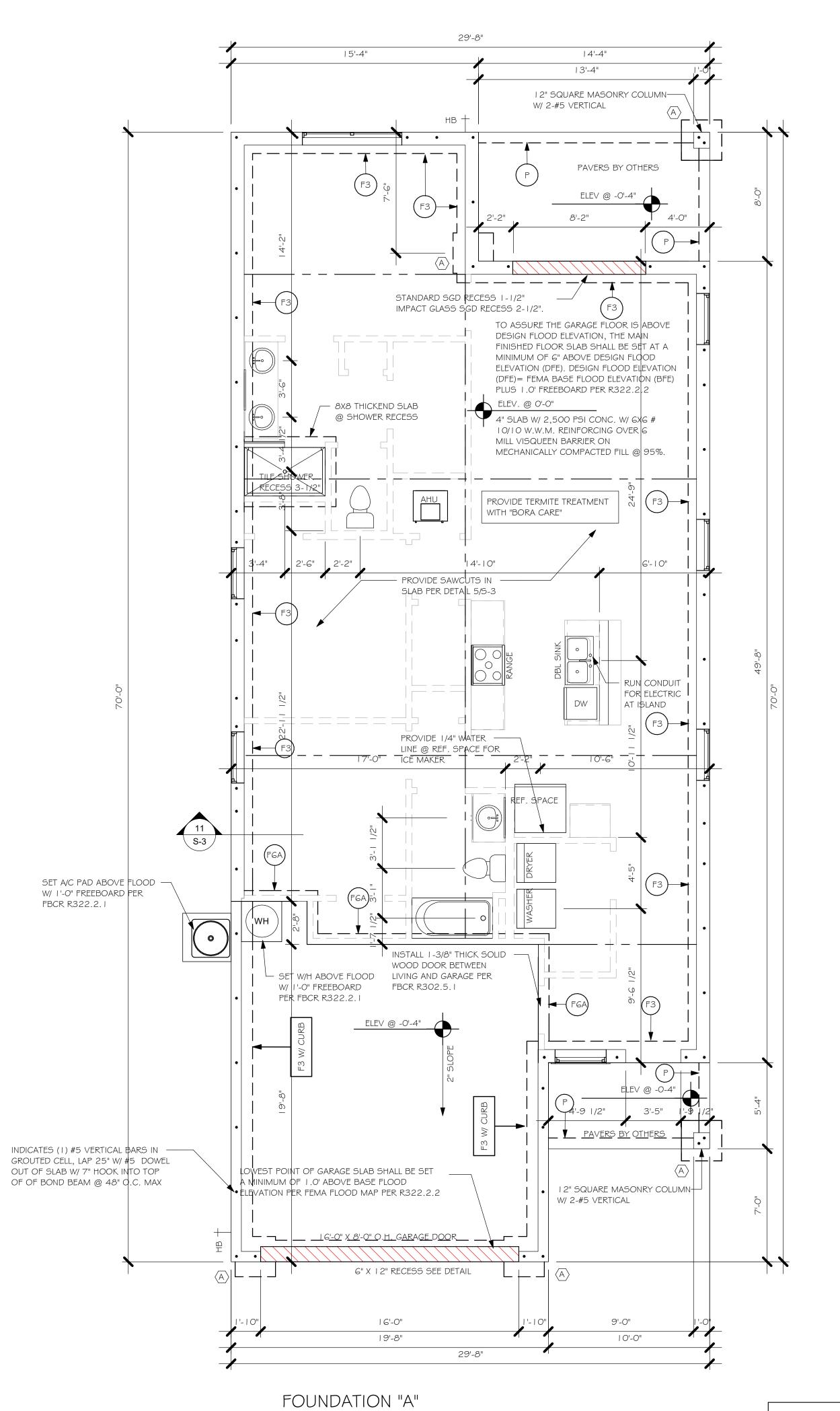
PROVIDE CORNER BARS IN FOOTING PER 6/S-3



GARAGE DOOR RECESS 1/2" = 1'-0"



"F6A" STEP DOWN 1/2" = 1'-0"



1/4" = 1'-0"

DESIGN IN ACCORDANCE WITH THE RESIDENTIAL FLORIDA BUILDING CODE 2020 - 7TH EDITION

MODEL

DATE:

DRAWN BY:

CHECKED BY:

FOUNDATION PLAN

S-1

As indicated

REVISED:

SCALE:

10/8/21

CWL

JWC

	TRUSS STRAPPING TO MASONR	 Y	
	MAX TRUSS UPLIFT (LBS)	STRAP/ANCHOR Valid lengths x/x/x/	FASTENER
INSTALL — META I G AT ALL TRUSSES TO 1450 Ib UPLIFT. FOR HIGHER UPLIFTS, SEE NOTES ON PLAN.	1450 (1 PLY) 1810 (1 PLY) 1875 (1 PLY) 1920 (1 PLY) 2120 (1 PLY) 1795 (2 OR 3 PLY) 2365 (2 OR 3 PLY) 3965 /DF /SP (2 PLY) 3000 /DF /SP (1 PLY 2x4) 4455 /DF /SP (1 PLY 2x4) 4455 /DF /SP (2 PLY 2x4) 4555 /DF /SP (2 PLY 2x4) 4570 /DF /SP (2 PLY 2x4) 5445 /DF /SP (2 PLY 2x4) 10690 /DF /SP (2 PLY 2x4) 10790 /SYP (3PLY)	(1) META 1 6/1 8/20 (1) HETA 1 6/20 (2) META 1 6/1 8/20 (2) HETA 1 6/20 (2) HETA 1 6/20 (2) META 1 6/1 8/20 (2) HETA 1 6/20 MGT HTT4 HTT4 HTT4 HTT5 HTT5 HTT5 (1) HGT - 2 (1) HGT - 3	(8) 0.148x1-1/2 ", EMBED 4" (9) 0.148x1-1/2", EMBED 4" (10) 0.148x1-1/2", EMBED 4" (10) 0.148x1-1/2", EMBED 4" (10) 0.148x1-1/2", EMBED 4" (14) 0.162x3-1/2", EMBED 4" (12) 0.162x3-1/2", EMBED 4" (22) 0148x3" ATR, EPOXY 12" (18) 0.148x1-1/2", 5/8" ATR, EPOXY 12" (18) SD#10x1-1/2", 5/8" ATR, EPOXY 12" (18) 0.162x2-1/2", 5/8" ATR, EPOXY 12" (26) SD#10x1-1/2", 5/8" ATR, EPOXY 12" (26) SD#10x2-1/2", 5/8" ATR, EPOXY 12" (26) 0.148x3", 5/8" ATR, EPOXY 12" (26) 0.148x3", 5/8" ATR, EPOXY 12" (16) 0.148x3", (2) 3/4" ATR, EPOXY 12"

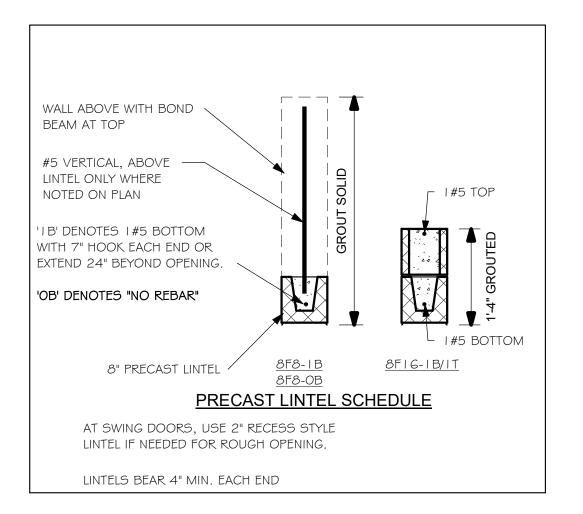
- PROVIDE A STRAP FROM THE ABOVE LIST AT EACH ROOF TRUSS BEARING POINT, BASED ON THE TRUSS UPLIFT VALUES IN THE SIGNED AND SEALED TRUSS DESIGN PACKAGE AND SUITABLE FOR THE GEOMETRY. EMBED STRAP ON CENTERLINE OF WALL.
- ANY OF THE VALID LENGTHS SHOWN MAY BE USED IN PLACE OF THE LENGTH SPECIFIED ON PLAN. CONNECTORS ARE SIMPSON STRONG TIE. ALL CONNECTORS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH SIMPSON PRINTED INSTUCTIONS. SUBSTITUTIONS MUST BE APPROVED IN
- WRITING BY THE ENGINEER OF RECORD. WHERE EMBEDDED STRAPS ARE MISSING, OR MIS-LOCATED, INSTALL RETROFIT STRAP PER 10/5-3.

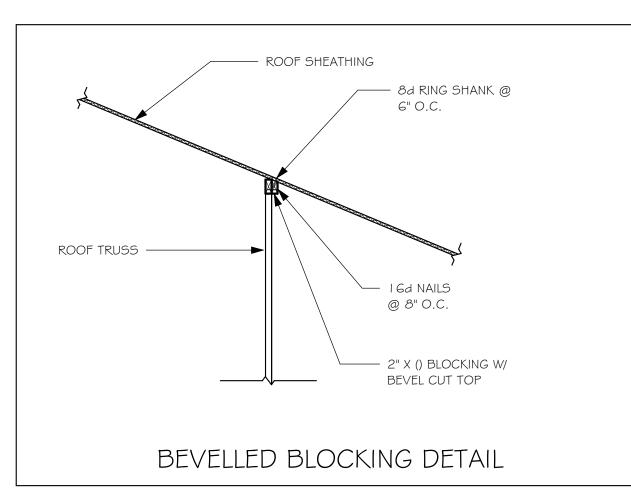
SIMPSON CATALOG C-C- 2019

INSTALL AT ALL TRUSSES TO 850 Ib UPLIFT.	TRUSS STRAPPING TO STUDWALL/ WOOD BEAM							
	MAX TRUSS UPLIFT (LBS)	STRAP(S) Valid lengths x/x/x	FASTENER					
FOR HIGHER - UPLIFTS, SEE NOTES ON	►850 1700 2550	(1)MT5   6/20/30 (2) MT5   6/20/30 (3) MT5   6/20/30	(14) 0.148x1-1/2" or 3" EACH STRAP					
PLAN.	1125 2250 3375 4500	(1) HTS20/24/30 (2) HTS20/24/30 (3) HTS20/24/30 (4) HTS20/24/30	(24) 0.148x1-1/2" OR (20) 0.148x3" EACH STRAP					

PER UPLIFT IN TRUSS ENGINEERING.

- I. PROVIDE A STRAP FROM THE ABOVE LIST AT EACH ROOF TRUSS BEARING POINT, BASED ON THE TRUSS UPLIFT VALUES IN THE SIGNED AND SEALED TRUSS DESIGN PACKAGE.
- ANY OF THE VALID LENGTHS SHOWN MAY BE USED IN PLACE OF THE LENGTH SPECIFIED ON PLAN.
- I-I/2" NAIL SHALL BE USED IN I PLY LUMBER, 2 PLY LUMBER IS REQUIRED
- FOR 3" NAILS. CONNECTORS ARE SIMPSON STRONG TIE. ALL CONNECTORS SHALL BE
  - INSTALLED IN STRICT ACCORDANCE WITH SIMPSON PRINTED INSTUCTIONS. SIMPSON CATALOG C-C- 2019





#### SEE LEGEND.

PLAN NOTES:

- ROOF AND FLOOR TRUSS BEARING ELEVATION VARIES,
- ROOF AND FLOOR FRAMING SHALL BE WOOD TRUSSES DESIGNED BYA DELEGATED TRUSS ENGINEER PER DESIGN CRITERIA ON SHEET S-3.
- PROVIDE STRAPPING AT TRUSSES PER NOTES ON THIS
- FOR NAILING OF ROOF AND FLOOR DECK, SEE 1 AND 2 ON 5-3.

BEARING HEIGHT

TRUSS BEARING CONDITIONS AND

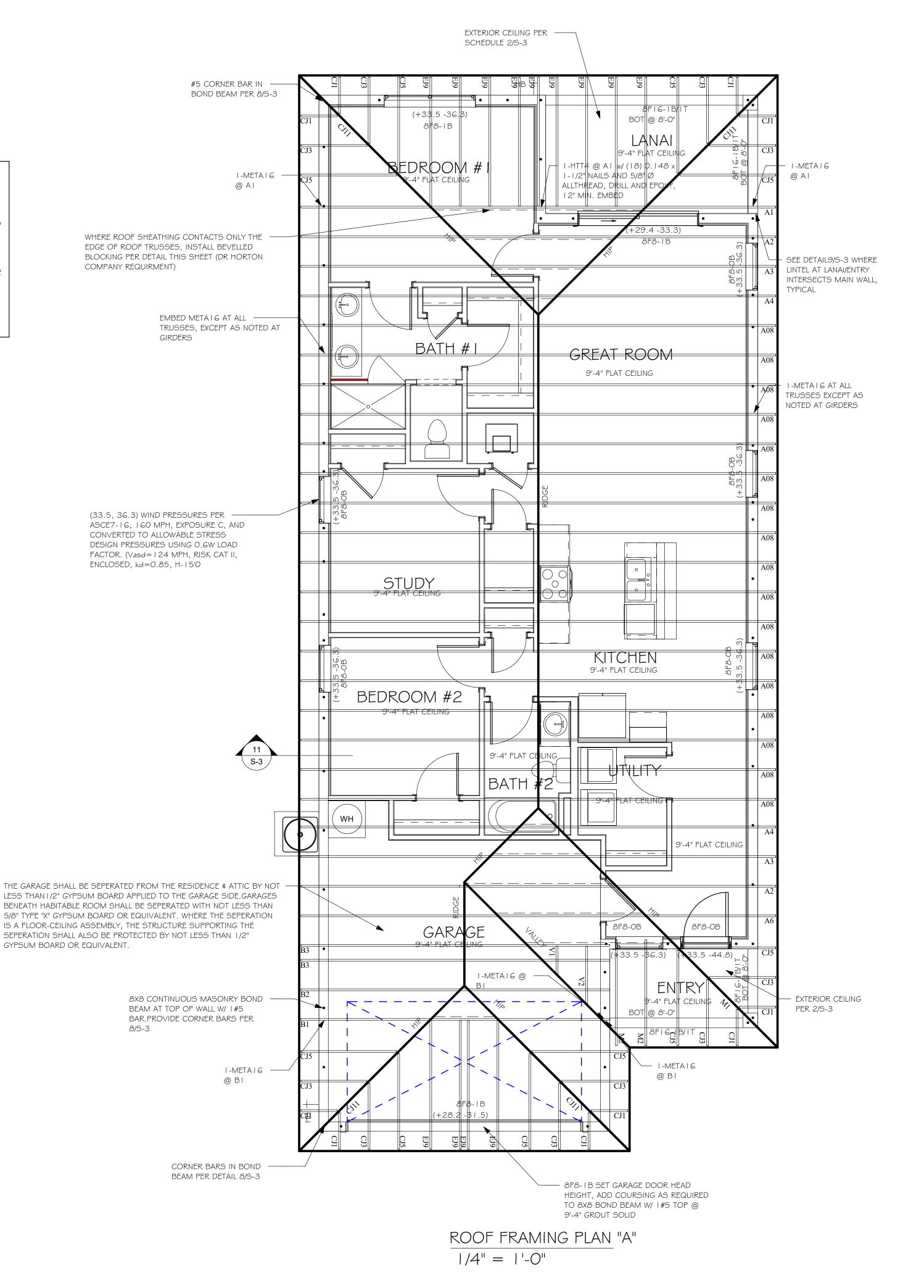
JOB# MASTER DATED: 06/26/20

STRAPPING IS BASED ON TRUSS LAYOUT

PREPARED BY BUILDERS FIRST SOURCE

= BEARING @ 9'-4"

- 8F8-1B etc., DENOTES PRECAST LINTEL ABOVE DOOR/WINDOW OPENING PER SCHEDULE THIS SHEET.
- AT TRUSS BEARING, PROVIDE 8x8 MASONRY BOND BEAM W/ I #5 CONTINUOUS, SEE DETAIL I I/S-3.



DESIGN IN ACCORDANCE WITH THE RESIDENTIAL FLORIDA BUILDING CODE 2020 - 7TH EDITION

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MODI

DATE:

DRAWN BY:

CHECKED BY:

ROOF FRAMING PLAN

As indicated

S-2 A

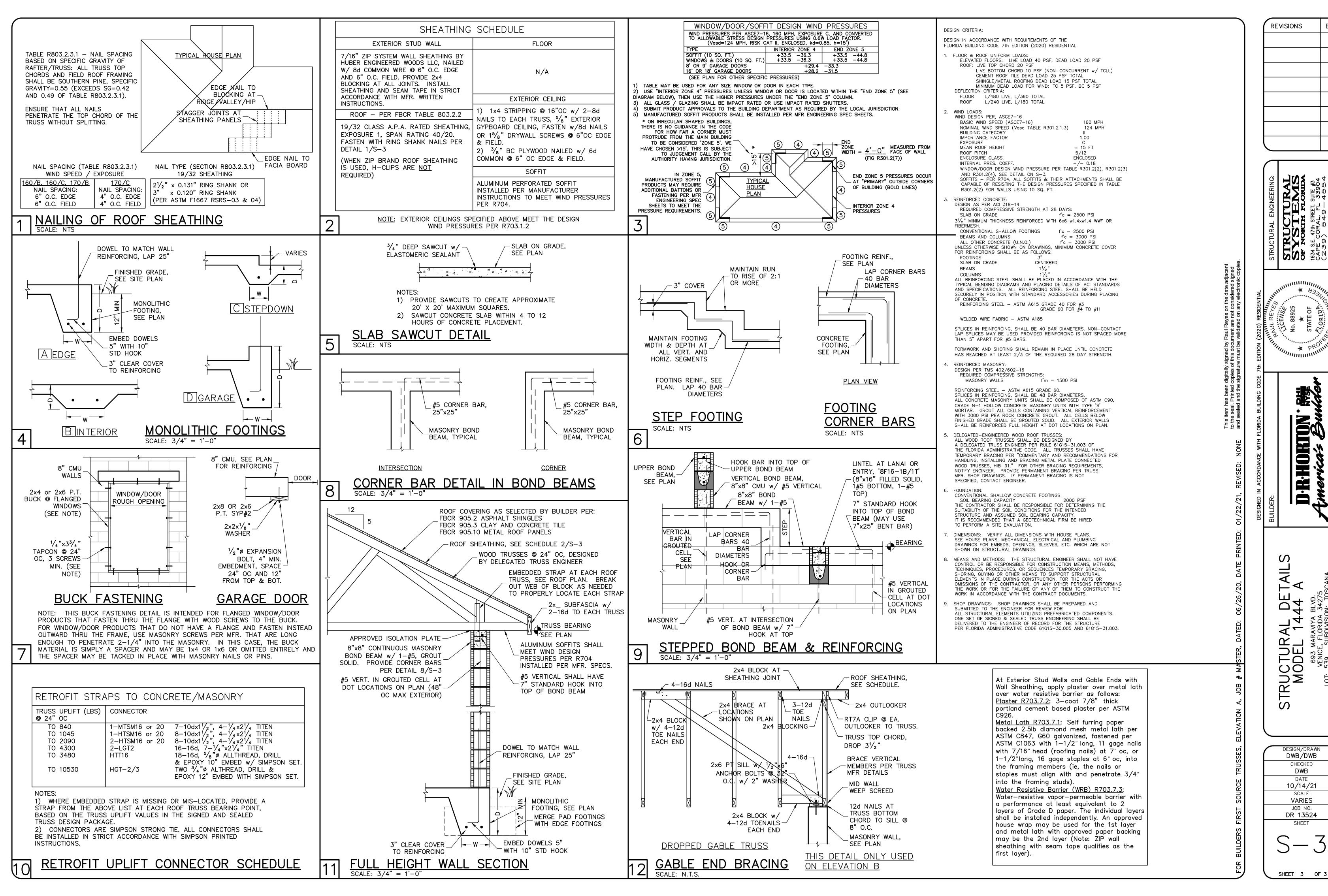
REVISED:

SCALE:

10/8/21

CWL

JWC

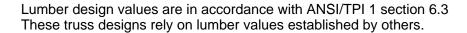


REVISIONS

IORTON D-R-H

**24**  $\mathbf{C}$ **DE** 00

> DWB/DWB CHECKED 10/14/21 SCALE **VARIES** JOB NO.





RE: 1444 A 160 C 2020 -

MiTek USA, Inc. 6904 Parke East Blvd. Tampa, FL 33610-4115

Site Information:

Customer Info: DR Horton Project Name: 1444 A 160 C 2020 Model: 1444

Lot/Block: MASTER

Subdivision: MASTER

Address: MASTER, N/A

City: MASTER State: Florida

Name Address and License # of Structural Engineer of Record, If there is one, for the building.

Name: License #:

Address:

City: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special **Loading Conditions):** 

Design Code: FBC2020/TPI2014 Design Program: MiTek 20/20 8.4

Wind Code: N/A Wind Speed: 160 mph Roof Load: 50.0 psf Floor Load: N/A psf

This package includes 18 individual, Truss Design Drawings and 0 Additional Drawings. With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T22567957	A1	1/24/21	15	T22567971	M1	1/24/21
2	T22567958	A2	1/24/21	16	T22567972	M2	1/24/21
	T22567959	A3	1/24/21	17	T22567973	V1	1/24/21
4 5 6	T22567960	A4	1/24/21	18	T22567974	V2	1/24/21
5	T22567961	A6	1/24/21				
6	T22567962	A08	1/24/21				
/	T22567963	B1	1/24/21				
8	T22567964	B2	1/24/21				
9	T22567965	B3	1/24/21				
10 11	T22567966	CJ1 CJ3	1/24/21				
12	T22567967 T22567968	CJ5	1/24/21				
13	T22567969	CJ11	1/24/21 1/24/21				
14	T22567970	EJ9	1/24/21				
1 T	122001010		1/4-7/41				

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource (Punta Gorda, FL).

Truss Design Engineer's Name: ORegan, Philip

My license renewal date for the state of Florida is February 28, 2021.

**IMPORTANT NOTE:** The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.



MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

January 24,2021

.loh Truss Truss Type Qty T22567957 1444 A 160 C 2020 Α1 Hip Girder 1 Job Reference (optional)
8.430 s Nov 30 2020 MiTek Industries, Inc. Fri Jan 22 09:48:23 2021 Page 1 Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950

ID:z8fDIIDUtzcAQZ7eytnzPIz2SFo-yYVCymYw6Eq8V9onAM2C8KWTVJeeoc01AUoZpOzsr6s

Structural wood sheathing directly applied or 3-11-8 oc purlins.

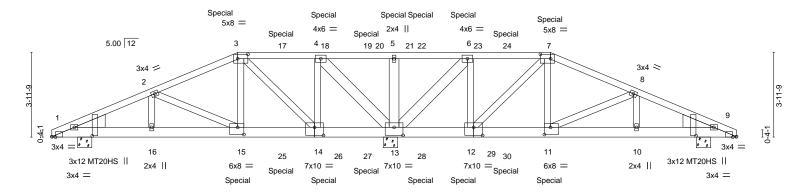
Rigid ceiling directly applied or 7-8-7 oc bracing.

"Special" indicates special hanger(s) or other connection device(s)

required at location(s)shown. The design/selection of such special connection device(s) is the responsibility of others. This applies

16-0-8 0-1-0 19-7-8 23-4-8 27-4-14 32-1-0 4-8-2 4-0-6 3-7-0 3-6-0 3-7-0 3-9-0 4-0-6 4-8-2

Scale = 1:54.0



1-2	-8 3-5-	-10 4-0-6	3-7-	·0 0-2 <sup>1</sup> -0	3-5-0	0-2-0 3-7-0	3-9-0	0 '	4-0-6	3-5-10	1-2-8
Plate Offs	ets (X,Y)	[1:0-0-8,1-10-11], [1:0-2-	1,Edge], [3:0-5-	12,0-2-8], [7	0-5-12,0-2	-8], [9:0-0-8,1-10-11	I], [9:0-2-1,Edge	], [11:0-3-8	,0-4-0], [12:0-5-0,0	-4-8], [13:0-5-0	,0-4-8],
		[14:0-5-0,0-4-8], [15:0-3-	8,0-4-0]								
LOADING	(nsf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d P	LATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.76	Vert(LL)	0.07 15-16			IT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.63	Vert(CT)	-0.09 15-16	>999 1	180 N	IT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.79	Horz(CT)	0.04 9	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	<-S				W	/eight: 213 lb	FT = 20%

16<sub>t</sub>0-8

19-7-8

BRACING-

TOP CHORD

**BOT CHORD** 

23-4-8

to all applicable truss designs in this job.

I UMRER-

1-2-8

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x6 SP No.2

2x4 SP No.3 \*Except\* 5-13,4-13,6-13: 2x6 SP No.2

4-8-2

WEDGE

Left: 2x8 SP 2400F 2.0E , Right: 2x8 SP 2400F 2.0E

REACTIONS. 13=0-8-0, 1=0-8-0, 9=0-8-0 (size)

Max Horz 1=125(LC 7)

Max Uplift 13=-2291(LC 8), 1=-546(LC 8), 9=-310(LC 8) Max Grav 13=5120(LC 1), 1=950(LC 17), 9=950(LC 18)

8-8-8

12-3-8

12<sub>T</sub>5-8

15-10-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-1929/1045, 2-3=-1426/735, 4-5=-844/1993, 5-6=-844/1993, 7-8=-1426/540,

8-9=-1929/640

**BOT CHORD** 1-16=-901/1710, 15-16=-901/1710, 14-15=-579/1305, 13-14=-266/140, 11-12=-369/1305,

10-11=-530/1710, 9-10=-530/1710

2-15=-507/421, 3-15=-648/1285, 3-14=-1645/822, 6-12=-620/1641, 7-12=-1645/740, **WEBS** 7-11=-517/1285, 8-11=-605/211, 4-14=-746/1641, 5-13=-427/253, 4-13=-2907/1396,

6-13=-2907/1218

#### NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=70ft; L=32ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; porch left exposed; Lumber DOL=1.60 plate
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=2291, 1=546, 9=310.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

30-10-8

32-1-0

Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

January 24,2021

#### Continued on page 2

🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building ormponent, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

\*\*ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\*

available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	
1444_A_160_C_2020	A1	Hip Girder	1	1	T22567957
		1p = 0doi	'		Job Reference (optional)

Builders FirstSource (Punta Gorda, FL),

Punta Gorda, FL - 33950,

8.430 s Nov 30 2020 MiTek Industries, Inc. Fri Jan 22 09:48:23 2021 Page 2 ID:z8fDllDUtzcAQZ7eytnzPlz2SFo-yYVCymYw6Eq8V9onAM2C8KWTVJeeoc01AUoZpOzsr6s

- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 75 lb down and 114 lb up at 8-8-8, 56 lb down and 107 lb up at 10-9-4, 56 lb down and 107 lb up at 12-9-4, 56 lb down and 107 lb up at 14-9-4, 56 lb down and 107 lb up at 16-0-8, 56 lb down and 107 lb up at 17-3-12, 56 lb down and 107 lb up at 19-3-12, and 56 lb down and 107 lb up at 21-3-12, and 75 lb down and 114 lb up at 23-4-8 on top chord, and 885 lb down and 364 lb up at 8-8-8, 259 lb down and 63 lb up at 10-9-4, 259 lb down and 63 lb up at 11-9-4, 259 lb down and 102 lb up at 17-3-12, 259 lb down and 102 lb up at 19-3-12, and 259 lb down and 102 lb up at 21-3-12, and 885 lb down and 457 lb up at 23-3-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-3=-80, 3-7=-80, 7-9=-80, 1-9=-20

Concentrated Loads (lb)

Vert: 3=-56(B) 7=-56(B) 15=-885(B) 11=-885(B) 5=-56(B) 17=-56(B) 18=-56(B) 19=-56(B) 22=-56(B) 23=-56(B) 24=-56(B) 25=-259(B) 26=-259(B) 27=-259(B)

28=-259(B) 29=-259(B) 30=-259(B)



.loh Truss Truss Type Qty T22567958 1444\_A\_160\_C\_2020 A2 Hip 2 Job Reference (optional) 8.430 s Nov 30 2020 MiTek Industries, Inc. Fri Jan 22 09:48:24 2021 Page 1 Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950, ID:z8fDIIDUtzcAQZ7eytnzPIz2SFo-Qk3a96ZYtXy?7INzk4ZRhX3fhivUXAWBO8X6Lqzsr6r

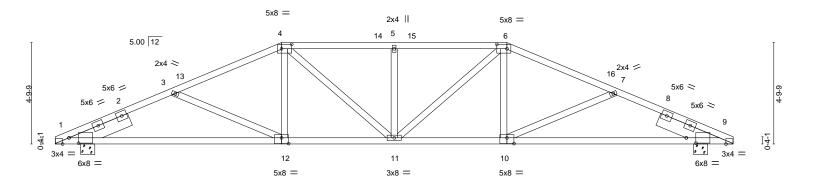
26-4-14 5-0-6

Structural wood sheathing directly applied or 2-7-13 oc purlins.

Rigid ceiling directly applied or 5-10-11 oc bracing.

Scale = 1:54.5

32-1-0



1-2-8 1 <sub>1</sub> 6-8 1-2-8 0 <sup>1</sup> 4-0	10-8-8 9-2-0	16-0-8 5-4-0	21-4-8 5-4-0	30-6- 9-2-	
Plate Offsets (X,Y)	[1:0-3-10,Edge], [1:0-5-7,0-3-0], [4:0-5-1	2,0-2-8], [6:0-5-12,0-2-8], [9:	:1-10-8,Edge], [9:0-5-7,0-3-0	], [10:0-4-0,0-3-4], [12:0-4	-0,0-3-4]
LOADING         (psf)           TCLL         20.0           TCDL         20.0           BCLL         0.0           BCDL         10.0	SPACING- 2-0-0 Plate Grip DOL 1.25 Lumber DOL 1.25 Rep Stress Incr YES Code FBC2020/TPI2014	CSI. TC 0.66 BC 0.91 WB 0.33 Matrix-S	DEFL.         in (loc)           Vert(LL)         -0.29         9-10           Vert(CT)         -0.65         9-10           Horz(CT)         0.12         9-10	>999 240	PLATES         GRIP           MT20         244/190           Weight: 172 lb         FT = 20%

TOP CHORD

**BOT CHORD** 

LUMBER-BRACING-

10-8-8 5-0-6

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.1 WEBS 2x4 SP No.3

SLIDER Left 2x8 SP 2400F 2.0E -t 3-0-0, Right 2x8 SP 2400F 2.0E -t 3-0-0

REACTIONS. (size) 1=0-8-0, 9=0-8-0 Max Horz 1=157(LC 11)

Max Uplift 1=-465(LC 12), 9=-465(LC 12) Max Grav 1=1571(LC 1), 9=1571(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD  $1-3=-3240/1258,\ 3-4=-2764/1030,\ 4-5=-2778/1155,\ 5-6=-2778/1155,\ 6-7=-2764/1030,$ 

7-9=-3240/1258

**BOT CHORD** 1-12=-1077/2907, 11-12=-741/2487, 10-11=-736/2487, 9-10=-1072/2907 **WEBS** 

3-12=-517/367, 4-12=-25/495, 4-11=-204/497, 5-11=-469/272, 6-11=-204/497,

6-10=-25/495, 7-10=-518/367

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=70ft; L=32ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-4-0 to 3-6-8, Interior(1) 3-6-8 to 10-8-8, Exterior(2R) 10-8-8 to 15-2-15, Interior(1) 15-2-15 to 21-4-8, Exterior(2R) 21-4-8 to 25-10-15, Interior(1) 25-10-15 to 31-9-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=465, 9=465.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

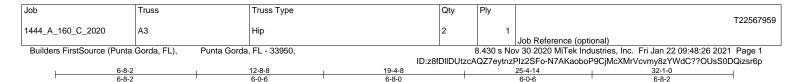
January 24,2021

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Scale = 1:54.5

32-1-0

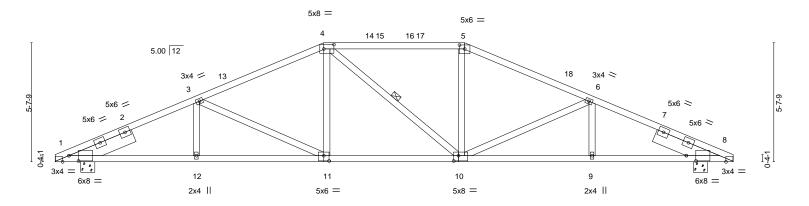
Structural wood sheathing directly applied or 2-2-0 oc purlins.

4-10

Rigid ceiling directly applied or 5-10-13 oc bracing.

1 Row at midpt

6-8-2



1-2-8 1 <sub>1</sub> 6-8   1-2-8 0 <sup>1</sup> 4-0   Plate Offsets (X,Y)	6-8-2 5-1-10   12-8-8 6-0-6 [1:0-3-10,Edge], [1:0-5-7,0-3-0], [4:0-5-	+	19-4-8 6-8-0 3:1-10-8,Edge], [8:0-5	25-4-14 6-0-6 5-7,0-3-0], [10:0-2-12,0-3-0], [11:	5-1-10	30 <sub>1</sub> 10-8 0-4-0 1-2-8
LOADING (psf) TCLL 20.0 TCDL 20.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.25 Lumber DOL 1.25 Rep Stress Incr YES Code FBC2020/TPI2014	CSI. TC 0.83 BC 0.76 WB 0.69 Matrix-S	Vert(CT) -0	in (loc) I/defl L/d 1.16 11 >999 240 1.33 10-11 >999 180 1.14 8 n/a n/a	PLATES MT20 Weight: 172 lb	<b>GRIP</b> 244/190 FT = 20%

BRACING-

**WEBS** 

TOP CHORD

**BOT CHORD** 

LUMBER-

2x4 SP No.2 \*Except\* TOP CHORD

4-5: 2x4 SP No.1 2x4 SP No.2

**BOT CHORD** WEBS 2x4 SP No.3

SLIDER Left 2x8 SP 2400F 2.0E -t 3-2-4, Right 2x8 SP 2400F 2.0E -t 3-2-4

REACTIONS. (size) 1=0-8-0, 8=0-8-0

Max Horz 1=-186(LC 10)

Max Uplift 1=-465(LC 12), 8=-465(LC 12) Max Grav 1=1571(LC 1), 8=1571(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-3=-3254/1179, 3-4=-2525/1001, 4-5=-2257/990, 5-6=-2515/997, 6-8=-3254/1179 **BOT CHORD**  $1 - 12 = -995/2910, \ 11 - 12 = -995/2910, \ 10 - 11 = -679/2254, \ 9 - 10 = -991/2910, \ 8 - 9 = -991/2910$ **WEBS** 3-12=0/257, 3-11=-786/350, 4-11=-74/490, 5-10=-78/491, 6-10=-794/352, 6-9=0/259

#### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=70ft; L=32ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-4-0 to 3-6-8, Interior(1) 3-6-8 to 12-8-8, Exterior(2R) 12-8-8 to 17-2-15, Interior(1) 17-2-15 to 19-4-8, Exterior(2R) 19-4-8 to 23-10-15, Interior(1) 23-10-15 to 31-9-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=465, 8=465.

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Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

January 24,2021

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\*\*ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

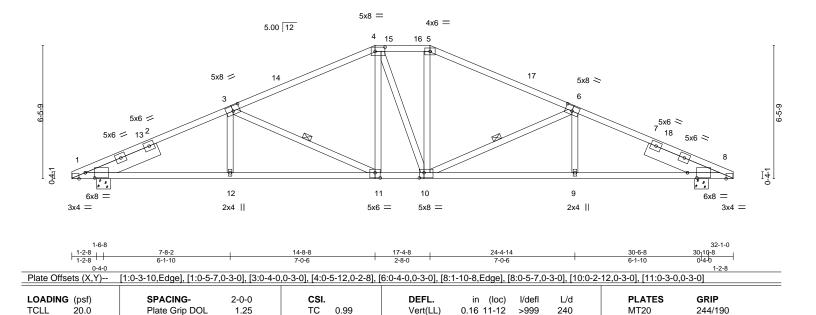


.loh Truss Truss Type Qty T22567960 1444 A 160 C 2020 A4 Hip 2 1 Job Reference (optional) 8.430 s Nov 30 2020 MiTek Industries, Inc. Fri Jan 22 09:48:27 2021 Page 1 Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950, ID:z8fDllDUtzcAQZ7eytnzPlz2SFo-rJkio8bRASKa\_m5YPC78JAg5uwxmkXEd46mmy9zsr6o

2-8-0

14-8-8 7-0-6

Scale = 1:55.9



Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

**WEBS** 

TOP CHORD

**BOT CHORD** 

0.16 11-12

-0.35 11-12

0.14

>999

>999

1 Row at midpt

n/a

240

180

n/a

Structural wood sheathing directly applied.

Rigid ceiling directly applied or 6-0-8 oc bracing.

3-11, 6-10

MT20

Weight: 180 lb

244/190

FT = 20%

LUMBER-

TCLL

TCDL

**BCLL** 

**BCDL** 

2x4 SP No.2 TOP CHORD **BOT CHORD** 2x4 SP No.2 WEBS 2x4 SP No.3

20.0

20.0

10.0

0.0

**SLIDER** Left 2x8 SP 2400F 2.0E -t 3-8-12, Right 2x8 SP 2400F 2.0E -t 3-8-12

Code FBC2020/TPI2014

REACTIONS. (size) 1=0-8-0, 8=0-8-0 Max Horz 1=-215(LC 10)

Max Uplift 1=-465(LC 12), 8=-465(LC 12) Max Grav 1=1571(LC 1), 8=1571(LC 1)

Plate Grip DOL

Rep Stress Incr

Lumber DOL

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

 $1\hbox{-}3\hbox{-}3199/1129,\ 3\hbox{-}4\hbox{-}-2291/913,\ 4\hbox{-}5\hbox{-}-2019/914,\ 5\hbox{-}6\hbox{-}-2282/910,\ 6\hbox{-}8\hbox{-}-3199/1129}$ TOP CHORD BOT CHORD 1-12=-939/2856. 11-12=-941/2852. 10-11=-556/2016. 9-10=-936/2851. 8-9=-934/2855 **WEBS** 3-12=0/316, 3-11=-986/428, 4-11=-129/496, 5-10=-151/488, 6-10=-993/429, 6-9=0/317

1.25

YES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=70ft; L=32ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-4-0 to 3-6-8, Interior(1) 3-6-8 to 14-8-8, Exterior(2E) 14-8-8 to 17-4-8, Exterior(2R) 17-4-8 to 21-10-15, Interior(1) 21-10-15 to 31-9-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

TC

ВС

WB

Matrix-S

0.99

0.87

0.33

- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=465, 8=465.

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January 24,2021

.loh Truss Truss Type Qty T22567961 1444 A 160 C 2020 A6 Roof Special 1 Job Reference (optional) 8.430 s Nov 30 2020 MiTek Industries, Inc. Fri Jan 22 09:48:28 2021 Page 1 Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950, ID:z8fDIIDUtzcAQZ7eytnzPIz2SFo-JVI5?Uc3xmSQbwgkzveNrNDJcKHITtsmJmVKUbzsr6n

5-0-0

21-0-8

2-4-0

Scale = 1:55.5

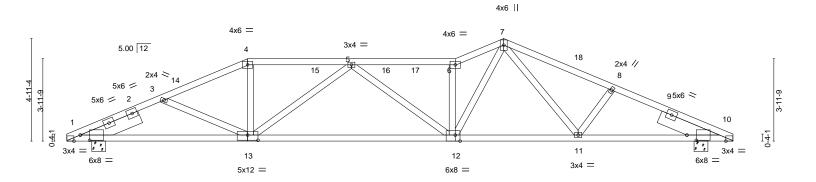


Plate Offsets (X,Y)	8-8-8 7-2-0	18-8-8 10-0-0 -10-8,Edge], [10:0-5-7,0-3-0], [12:0-2-12,Ed	24-7-8 5-11-0	32-1-0 30-6-8 30 <sub>1</sub> 10-8 5-11-0 0 <sup>1</sup> 4-01-2-8
LOADING (psf) TCLL 20.0 TCDL 20.0 BCLL 0.0 * BCDL 10.0	SPACING-         2-0-0           Plate Grip DOL         1.25           Lumber DOL         1.25           Rep Stress Incr         YES           Code FBC2020/TPI2014	CSI. DEFL. TC 0.73 Vert(LL) BC 0.89 Vert(CT) WB 0.75 Horz(CT) Matrix-S	in (loc) I/defl L/d -0.24 12-13 >999 240 -0.66 12-13 >571 180	PLATES GRIP MT20 244/190  Weight: 171 lb FT = 20%

LUMBER-BRACING-

2x4 SP No.2 TOP CHORD TOP CHORD Structural wood sheathing directly applied or 2-3-13 oc purlins. 2x4 SP No.1 \*Except\* **BOT CHORD BOT CHORD** Rigid ceiling directly applied or 5-8-0 oc bracing.

10-12: 2x4 SP No.2

4-8-2

2x4 SP No.3 WEBS

SLIDER Left 2x8 SP 2400F 2.0E -t 3-0-0, Right 2x8 SP 2400F 2.0E -t 3-0-0

REACTIONS. (size) 1=0-8-0, 10=0-8-0

Max Horz 1=-162(LC 10)

Max Uplift 1=-465(LC 12), 10=-465(LC 12) Max Grav 1=1571(LC 1), 10=1571(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD  $1\hbox{-}3\hbox{-}3300/1299, 3\hbox{-}4\hbox{-}-2983/1151, 4\hbox{-}5\hbox{-}-2695/1104, 5\hbox{-}6\hbox{-}-3302/1332, 6\hbox{-}7\hbox{-}-3597/1464,}$ 

7-8=-3042/1219, 8-10=-3274/1257

**BOT CHORD** 1-13=-1141/2957, 12-13=-1172/3307, 11-12=-781/2414, 10-11=-1071/2934 WEBS 3-13=-328/284, 4-13=-200/769, 5-13=-759/375, 6-12=-1596/701, 7-12=-728/1975,

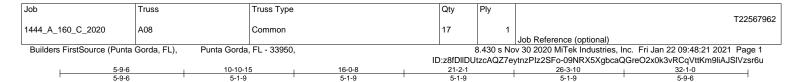
7-11=-203/554, 8-11=-389/289

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=70ft; L=32ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-4-0 to 3-6-8, Interior(1) 3-6-8 to 8-8-8, Exterior(2R) 8-8-8 to 11-11-0, Interior(1) 11-11-0 to 21-0-8, Exterior(2R) 21-0-8 to 24-3-0, Interior(1) 24-3-0 to 31-9-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=465 10=465

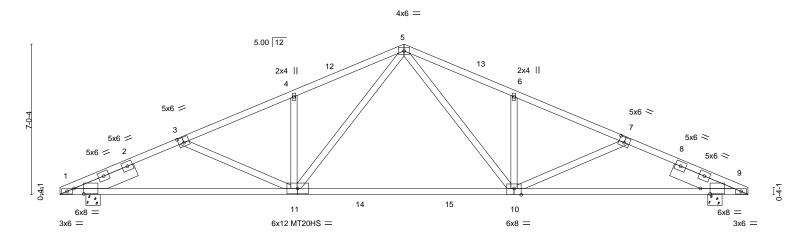
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January 24,2021



Scale = 1:53.7



1-2-8 1 6-8 1-2-8 0 4-0   Plate Offsets (X,Y)	10-10-15 9-4-7 [1:0-5-7,0-3-0], [3:0-3-0,0-3-0], [7:0-3-0,	 0-3-0], [9:0-5-7,0-3-0], [10	21-2-1 10-3-2 0:0-4-0,Edge]	1	30-6-8 9-4-7	32-1-0 30 <sub>1</sub> 10-8 0 <sup>1</sup> 4-0 1-2-8
LOADING (psf) TCLL 20.0 TCDL 20.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.25 Lumber DOL 1.25 Rep Stress Incr YES Code FBC2020/TPI2014	CSI. TC 0.45 BC 0.90 WB 0.56 Matrix-S	DEFL.         in (loc)           Vert(LL)         -0.33 10-11           Vert(CT)         -0.59 10-11           Horz(CT)         0.11         9	l/defl L/d >999 240 >637 180 n/a n/a	PLATES MT20 MT20HS Weight: 172 lb	<b>GRIP</b> 244/190 187/143 FT = 20%

**BOT CHORD** 

LUMBER-BRACING-TOP CHORD TOP CHORD

2x4 SP No.2 2x4 SP M 31 \*Except\* **BOT CHORD** 

10-11: 2x4 SP No.1

2x4 SP No.3 WEBS

SLIDER Left 2x8 SP 2400F 2.0E -t 3-0-0, Right 2x8 SP 2400F 2.0E -t 3-0-0

REACTIONS. (size) 1=0-8-0, 9=0-8-0

Max Horz 1=-234(LC 10)

Max Uplift 1=-465(LC 12), 9=-465(LC 12) Max Grav 1=1750(LC 17), 9=1750(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD  $1-3=-3500/1209,\ 3-4=-3044/1014,\ 4-5=-3086/1153,\ 5-6=-3086/1153,\ 6-7=-3044/1014,$ 

7-9=-3500/1209

**BOT CHORD** 1-11=-1008/3315, 10-11=-490/2052, 9-10=-1010/3140

WEBS 5-10=-410/1371, 6-10=-472/330, 7-10=-476/325, 5-11=-410/1372, 4-11=-472/331,

3-11=-475/325

#### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=70ft; L=32ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-4-0 to 3-6-8, Interior(1) 3-6-8 to 16-0-8, Exterior(2R) 16-0-8 to 19-3-0, Interior(1) 19-3-0 to 31-9-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=465 9=465

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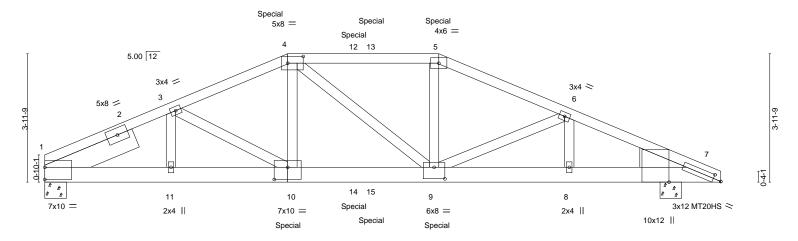


Structural wood sheathing directly applied or 3-0-8 oc purlins.

Rigid ceiling directly applied or 7-8-1 oc bracing.

.loh Truss Truss Type Qty T22567963 1444\_A\_160\_C\_2020 **B1** Hip Girder 1 Job Reference (optional)
8.430 s Nov 30 2020 MiTek Industries, Inc. Fri Jan 22 09:48:29 2021 Page 1 Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950, ID:z8fDllDUtzcAQZ7eytnzPlz2SFo-nisTDqdhi4aHD4FxWd9cObmROjezCOvwYPFt11zsr6m

Scale = 1:35.6



3-10-12	7-6-0	12-2-0	12-2-0		16-2-6			19-4-0	19-8-0 20-10-8
3-10-12	3-7-4	4-8-0	4-8-0		4-0-6		3-1-10	0-4-0 1-2-8	
Plate Offsets (X,Y) [1:Ed	je,0-4-8], [4:0-5-12,0-2-8], [7:0-0-	4,Edge], [7:0-3-0,0-1-8], [9:0-	-4-0,0-4-4], [1(	):0-5-0,0-	4-8]				
LOADING (psf) TCLL 20.0 TCDL 20.0 BCLL 0.0 * BCDL 10.0	SPACING-         2-0-0           Plate Grip DOL         1.25           Lumber DOL         1.25           Rep Stress Incr         NO           Code FBC2020/TPI2014	CSI. TC 0.92 BC 0.82 WB 0.51 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in 0.18 -0.28 0.07	(loc) 9-10 9-10 7	l/defl >999 >888 n/a	L/d 240 180 n/a	PLATES MT20 MT20HS Weight: 13	<b>GRIP</b> 244/190 187/143 00 lb FT = 20%

BRACING-TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x4 SP No.1 \*Except\*

5-7: 2x4 SP No.2 **BOT CHORD** 2x6 SP No.2 \*Except\* 7-10: 2x6 SP M 26

WEBS 2x4 SP No.3

WEDGE

Right: 2x8 SP 2400F 2.0E

**SLIDER** Left 2x8 SP 2400F 2.0E -t 2-11-4

REACTIONS. (size) 1=0-8-0, 7=0-8-0

Max Horz 1=122(LC 7)

Max Uplift 1=-947(LC 8), 7=-894(LC 8) Max Grav 1=2337(LC 1), 7=2230(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-3=-4470/1836, 3-4=-4552/1984, 4-5=-4346/1935, 5-6=-4713/2036, 6-7=-4972/2032 **BOT CHORD** 1-11=-1555/3882, 10-11=-1555/3882, 9-10=-1698/4227, 8-9=-1804/4495, 7-8=-1804/4495

WEBS 3-10=-508/487, 4-10=-446/1152, 5-9=-521/1338, 6-9=-603/90

#### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=70ft; L=30ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); cantilever right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=947. 7=894.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 75 lb down and 113 lb up at 7-6-0, 56 lb down and 107 lb up at 9-6-12, and 56 lb down and 107 lb up at 10-1-4, and 75 lb down and 113 lb up at 12-2-0 on top chord, and 885 lb down and 457 lb up at 7-6-0, 259 lb down and 102 lb up at 9-6-12, and 259 lb down and 102 lb up at 10-1-4, and 885 lb down and 457 lb up at 12-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B)

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January 24,2021

#### LOAD CASE(S) Standard

Continued on page 2

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\*\*ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\*

available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Structural wood sheathing directly applied or 1-10-8 oc purlins.

Rigid ceiling directly applied or 5-10-13 oc bracing.

Job	Truss	Truss Type	Qty	Ply	
1444_A_160_C_2020	B1	Hip Girder	1	1	T22567963
1444_7(_100_0_2020	5.	The Girder			Job Reference (optional)

Builders FirstSource (Punta Gorda, FL),

Punta Gorda, FL - 33950,

8.430 s Nov 30 2020 MiTek Industries, Inc. Fri Jan 22 09:48:29 2021 Page 2 ID:z8fDllDUtzcAQZ7eytnzPlz2SFo-nisTDqdhi4aHD4FxWd9cObmROjezCOvwYPFt11zsr6m

#### LOAD CASE(S) Standard

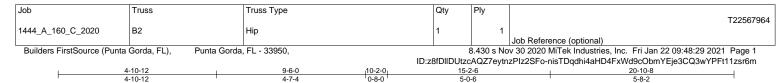
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 1-4=-80, 4-5=-80, 5-7=-80, 1-7=-20

Concentrated Loads (lb)

Vert: 4=-56(F) 5=-56(F) 10=-885(F) 9=-885(F) 12=-56(F) 13=-56(F) 14=-259(F) 15=-259(F)





Scale = 1:35.6

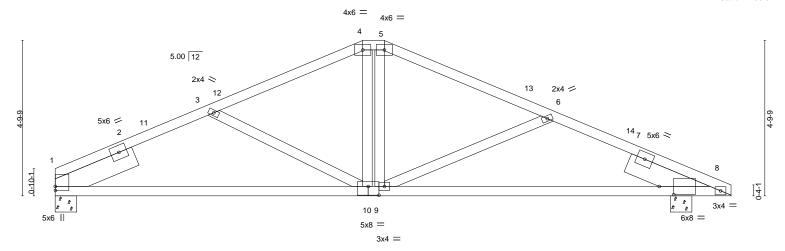


Plate Offsets (X,Y)	9-6-0 [1:0-1-8,0-0-1], [8:0-5-7,0-3-0], [10:0-4-0	,0-3-4]		9-2-0	0-4-0 1-2-8
LOADING (psf) TCLL 20.0 TCDL 20.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.25 Lumber DOL 1.25 Rep Stress Incr YES Code FBC2020/TPI2014	CSI. TC 0.48 BC 0.82 WB 0.37 Matrix-S	DEFL.         in           Vert(LL)         -0.24           Vert(CT)         -0.52           Horz(CT)         0.05	(loc) I/defl L/d 8-9 >999 240 8-9 >478 180 8 n/a n/a	PLATES GRIP MT20 244/190  Weight: 110 lb FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

19-4-0

Structural wood sheathing directly applied or 3-9-12 oc purlins.

Rigid ceiling directly applied or 7-5-13 oc bracing.

10-2-0

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.1 WEBS 2x4 SP No.3

**SLIDER** Left 2x8 SP 2400F 2.0E -t 2-7-12, Right 2x8 SP 2400F 2.0E -t 2-7-7

REACTIONS. (size) 1=0-8-0, 8=0-8-0

Max Horz 1=-153(LC 10)

Max Uplift 1=-304(LC 12), 8=-304(LC 12) Max Grav 1=1027(LC 1), 8=1027(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

1-3=-1750/731, 3-4=-1394/580, 4-5=-1231/584, 5-6=-1410/576, 6-8=-1938/820 TOP CHORD **BOT CHORD** 

1-10=-565/1475. 9-10=-306/1231. 8-9=-675/1723

**WEBS** 3-10=-337/292, 4-10=-139/280, 5-9=-108/374, 6-9=-586/405

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=70ft; L=30ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 9-6-0, Exterior(2E) 9-6-0 to 10-2-0, Exterior(2R) 10-2-0 to 14-4-15, Interior(1) 14-4-15 to 20-6-8 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=304, 8=304.

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19-8-0 20-10-8

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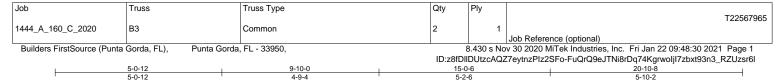
January 24,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

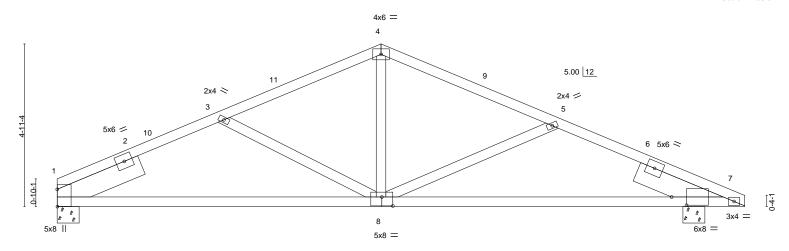
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

\*\*AMSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





Scale = 1:35.0



19-8-0 20-10-8 0-4-0 1-2-8 9-10-0 9-6-0 Plate Offsets (X,Y)--[1:0-6-5,Edge], [7:0-5-7,0-3-0], [8:0-4-0,0-3-4] SPACING-GRIP LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/defI L/d **PLATES** TCLL 20.0 Plate Grip DOL 1.25 TC 0.46 Vert(LL) -0.24 7-8 >999 240 MT20 244/190 TCDL 20.0 Lumber DOL 1.25 ВС 0.86 Vert(CT) -0.52 7-8 >472 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.38 Horz(CT) -0.05 n/a n/a Code FBC2020/TPI2014 FT = 20% **BCDL** 10.0 Weight: 105 lb Matrix-S

**BRACING-**

TOP CHORD

**BOT CHORD** 

19-4-0

Structural wood sheathing directly applied or 3-10-6 oc purlins.

Rigid ceiling directly applied or 6-11-6 oc bracing.

LUMBER-

2x4 SP No.2 TOP CHORD **BOT CHORD** 2x4 SP No.1 WEBS 2x4 SP No.3

**SLIDER** Left 2x8 SP 2400F 2.0E -t 2-8-13, Right 2x8 SP 2400F 2.0E -t 2-8-9

9-10-0

REACTIONS. (size) 1=0-8-0, 7=0-8-0

Max Horz 7=-157(LC 10)

Max Uplift 1=-304(LC 12), 7=-304(LC 12) Max Grav 1=1027(LC 1), 7=1027(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

4-5=-1396/664, 5-7=-1927/952, 1-3=-1750/850, 3-4=-1377/666 TOP CHORD

BOT CHORD 1-8=-645/1475 7-8=-783/1711

**WEBS** 5-8=-592/469, 4-8=-200/637, 3-8=-361/335

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=70ft; L=30ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 9-10-0, Exterior(2R) 9-10-0 to 12-10-0, Interior(1) 12-10-0 to 20-6-8 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=304, 7=304.

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January 24,2021



.loh Truss Truss Type Qty T22567966 1444\_A\_160\_C\_2020 CJ1 Jack-Open 10 Job Reference (optional) 8.430 s Nov 30 2020 MiTek Industries, Inc. Fri Jan 22 09:48:31 2021 Page 1

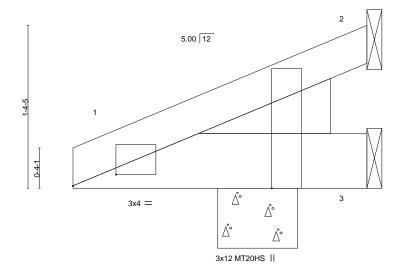
Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950,

ID:z8fDllDUtzcAQZ7eytnzPlz2SFo-j4\_DdVexEhq?TNPJe2B4T0r\_PXV?gPMD?jk\_5wzsr6k

Structural wood sheathing directly applied or 2-5-7 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

Scale = 1:9.6



	1-10-8	2-5-7	
1	1-10-8	0-6-15	1

Plate Offsets (X,Y)	[1:0-4-5,0-1-2], [1:0-0-4,Edge]	1-10-0	0-0-13	
LOADING (psf)	SPACING- 2-0-0	CSI.	<b>DEFL.</b> in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.12	Vert(LL) -0.00 1 >999 240	MT20 244/190
TCDL 20.0	Lumber DOL 1.25	BC 0.02	Vert(CT) -0.00 1 >999 180	MT20HS 187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 2 n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-P		Weight: 12 lb FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x6 SP No.2

WEDGE Left: 2x6 SP No.2

REACTIONS.

(size) 2=Mechanical, 3=Mechanical, 1=0-8-0

Max Horz 1=51(LC 12)

Max Uplift 2=-54(LC 12), 1=-19(LC 12)

Max Grav 2=86(LC 17), 3=41(LC 3), 1=103(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 1) Wind: ASCE 7-16; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=70ft; L=30ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 1.

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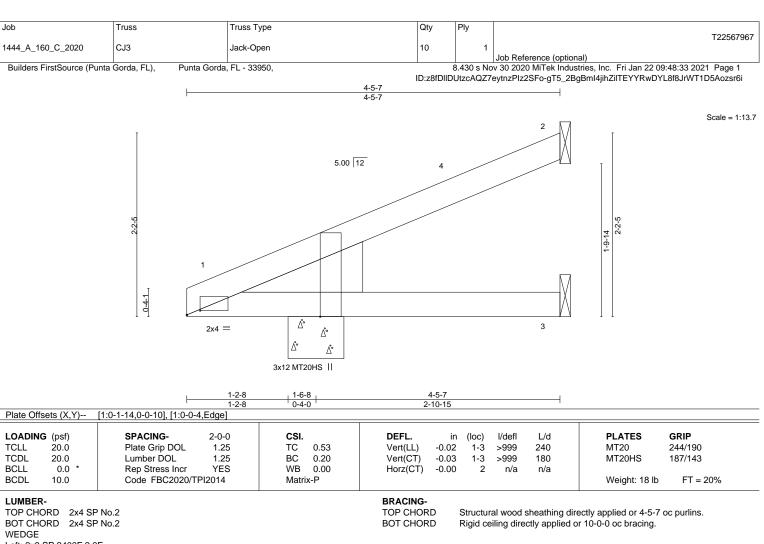
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BOT CHORD 2x4 SP No.2

Left: 2x8 SP 2400F 2.0E

REACTIONS. (size) 2=Mechanical, 3=Mechanical, 1=0-8-0

Max Horz 1=100(LC 12)

Max Uplift 2=-107(LC 12), 1=-37(LC 12)

Max Grav 2=170(LC 17), 3=81(LC 3), 1=203(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 1) Wind: ASCE 7-16; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=70ft; L=30ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-4-0 to 3-4-0, Interior(1) 3-4-0 to 4-4-11 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 2=107

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January 24,2021

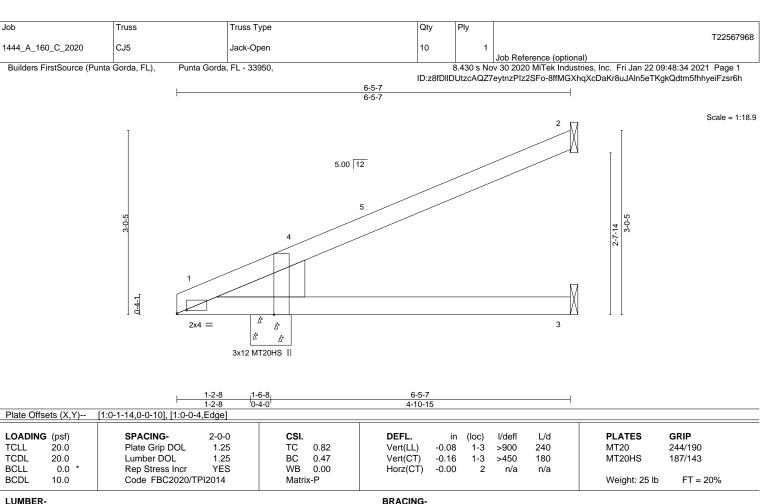


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TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.2

WEDGE Left: 2x8 SP 2400F 2.0E

REACTIONS. (size) 2=Mechanical, 3=Mechanical, 1=0-8-0

Max Horz 1=145(LC 12)

Max Uplift 2=-158(LC 12), 1=-58(LC 12)

Max Grav 2=254(LC 17), 3=121(LC 3), 1=303(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 1) Wind: ASCE 7-16; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=70ft; L=30ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-4-0 to 3-4-0, Interior(1) 3-4-0 to 6-4-11 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 2=158.

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January 24,2021

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Structural wood sheathing directly applied or 4-5-10 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.



ID:z8fDllDUtzcAQZ7eytnzPlz2SFo-BGXbrrfZ??ys4X\_WCljJ0DOzHxekPmTMENTXdMzsr6j 12-2-0 12-2-5 0-0-5 4-6-10 3-8-1 3-11-4

Special Special 3.54 12 11 3x4 = Special Special 10 2x4 > Special 2 Special 9 3x4 =ζ. 12 13 8 14

	1-8-2	2-1-13	7-0-5	12-2-5	I.
	1-8-2	b-5-11 <sup>l</sup>	4-10-8	5-2-0	7
Y)	[1:0-3-4,0-0-1], [	1:0-0-6,1-6-14], [1:0-0-6	i,Edge]		

BRACING-

TOP CHORD

**BOT CHORD** 

Special

Special

3x4 =

Special

Special

except end verticals.

Structural wood sheathing directly applied or 4-9-6 oc purlins,

Rigid ceiling directly applied or 5-3-9 oc bracing.

3x6 = 6

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.88	Vert(LL)	-0.05	1-8	>999	240	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.88	Vert(CT)	0.20	1-8	>710	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.39	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code FBC2020/TF	PI2014	Matri	x-S						Weight: 62 lb	FT = 20%

LUMBER-

Plate Offsets (X,Y)

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.1 WEBS 2x4 SP No.3

WEDGE Left: 2x8 SP 2400F 2.0E

REACTIONS. (size) 7=Mechanical, 1=0-11-5, 4=Mechanical

Max Horz 1=194(LC 8)

Max Uplift 7=-327(LC 8), 1=-406(LC 8), 4=-119(LC 8) Max Grav 7=654(LC 1), 1=519(LC 1), 4=179(LC 1)

3x8 ||

3x12 MT20HS ||

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-1422/865, 2-3=-1030/660 **BOT CHORD** 1-8=-974/1302, 7-8=-602/849

**WEBS** 2-8=-401/312, 3-8=-211/331, 3-7=-971/725

#### NOTES-

1) Wind: ASCE 7-16; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=70ft; L=30ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); cantilever left exposed; Lumber DOL=1.60 plate grip DOL=1.60

Special

- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=327, 1=406, 4=119.

9) n/a

- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 80 lb up at 3-6-11, 80 lb up at 3-6-11, 49 lb down and 137 lb up at 6-4-10, 49 lb down and 137 lb up at 6-4-10, and 129 lb down and 200 lb up at 9-2-9, and 129 lb down and 200 lb up at 9-2-9 on top chord, and 189 lb up at 3-6-11, 189 lb up at 3-6-11, 25 lb down at 6-4-10, 25 lb down at 6-4-10, and 65 lb down at 9-2-9, and 65 lb down at 9-2-9 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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Scale = 1:24.4

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#### Continued on page 2

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\*\*ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\*

available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	
1444_A_160_C_2020	CJ11	Diagonal Hip Girder	4	1	T22567969
1444_A_100_0_2020	0011	Diagonal Filip Girder	-		Job Reference (optional)

Builders FirstSource (Punta Gorda, FL),

Punta Gorda, FL - 33950,

8.430 s Nov 30 2020 MiTek Industries, Inc. Fri Jan 22 09:48:32 2021 Page 2 ID:z8fDIIDUtzcAQZ7eytnzPlz2SFo-BGXbrrfZ??ys4X\_WCljJ0DOzHxekPmTMENTXdMzsr6j

#### LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

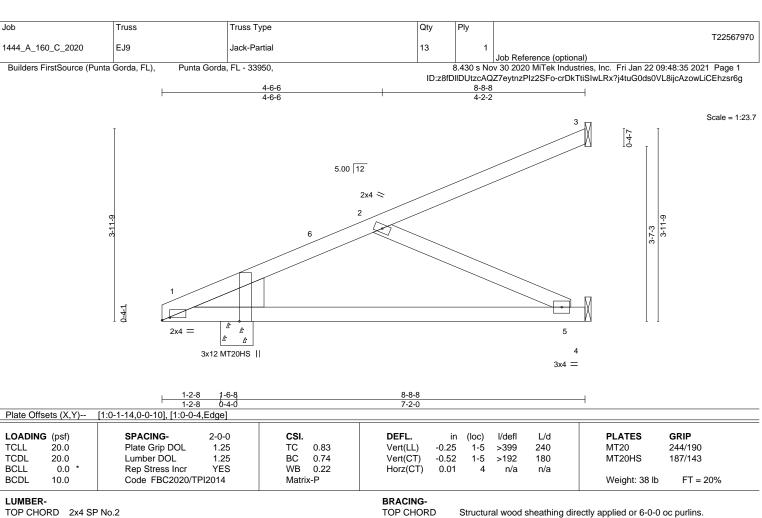
Uniform Loads (plf)

Vert: 1-4=-80, 4-5=-40, 1-6=-20

Concentrated Loads (lb)

Vert: 10=-98(F=-49, B=-49) 11=-258(F=-129, B=-129) 12=-269(F=-135, B=-135) 13=-25(F=-12, B=-12) 14=-65(F=-32, B=-32)





**BOT CHORD** 

Rigid ceiling directly applied or 8-1-12 oc bracing.

BOT CHORD 2x4 SP No.1 WEBS 2x4 SP No.3

WEDGE

Left: 2x8 SP 2400F 2.0E

REACTIONS. (size) 3=Mechanical, 4=Mechanical, 1=0-8-0

Max Horz 1=195(LC 12)

Max Uplift 3=-84(LC 12), 4=-82(LC 12), 1=-80(LC 12) Max Grav 3=142(LC 17), 4=289(LC 17), 1=416(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-528/316 **BOT CHORD** 1-5=-558/498 **WEBS** 2-5=-547/612

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=70ft; L=30ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-4-0 to 3-4-0, Interior(1) 3-4-0 to 8-7-12 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4, 1.

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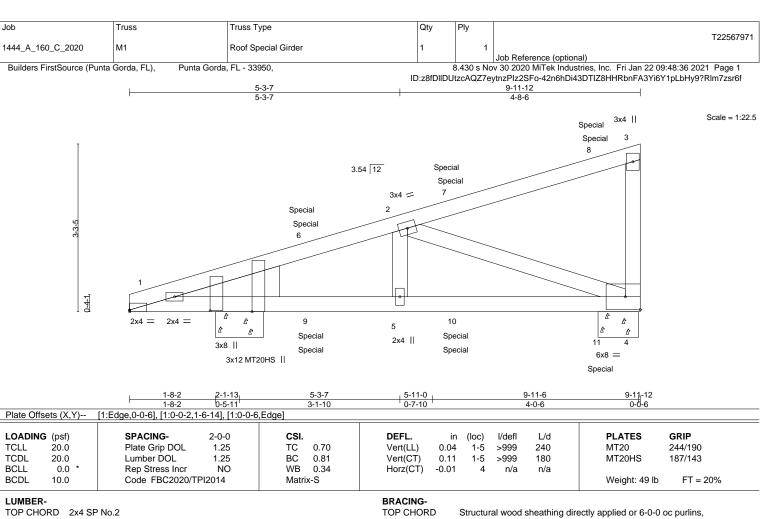
January 24,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

\*\*AMSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





**BOT CHORD** 

except end verticals.

Rigid ceiling directly applied or 5-8-12 oc bracing

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3

WEDGE Left: 2x8 SP 2400F 2.0E

REACTIONS. (size) 4=0-9-8, 1=0-11-5

Max Horz 1=157(LC 8)

Max Uplift 4=-500(LC 8), 1=-332(LC 8) Max Grav 4=800(LC 1), 1=365(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-850/702. 3-4=-437/303

**BOT CHORD** 1-5=-778/762, 4-5=-778/762

**WEBS** 2-4=-748/806

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=70ft; L=30ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); cantilever left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=500, 1=332
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 80 lb up at 3-6-11, 80 lb up at 3-6-11, 49 lb down and 137 lb up at 6-4-10, 49 lb down and 137 lb up at 6-4-10, and 161 lb down and 199 lb up at 9-2-9, and 161 lb down and 199 lb up at 9-2-9 on top chord, and 189 lb up at 3-6-11, 189 lb up at 3-6-11, 25 lb down at 6-4-10, and 25 lb down at 6-4-10, and 80 lb down at 9-2-9 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-3=-80, 1-4=-20

Vert: 7=-98(F=-49, B=-49) 8=-322(F=-161, B=-161) 9=269(F=135, B=135) 10=-25(F=-12, B=-12) 11=-40(F)

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Job Truss Truss Type Qty T22567972 2 1444 A 160 C 2020 M2 Monopitch Job Reference (optional)
8.430 s Nov 30 2020 MiTek Industries, Inc. Fri Jan 22 09:48:37 2021 Page 1

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950, ID:z8fDllDUtzcAQZ7eytnzPlz2SFo-YELUuZjipXb9BlsT\_IIUjH5w8yQd47r5OfBlJazsr6e

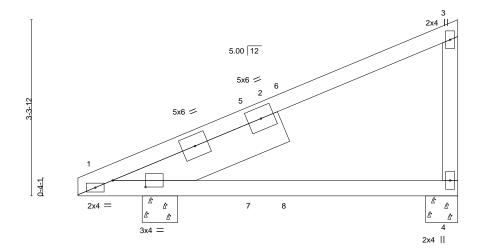
Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

7-1-12

Scale = 1:21.7



1-2-8

Plate Oil	sels (X, Y)	[1:0-7-7,0-1-8]										
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.49	Vert(LL)	0.23	1-4	>350	240	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.58	Vert(CT)	-0.24	1-4	>338	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB.	0.00	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code FBC2020/TPI	2014	Matri	x-P	, ,					Weight: 37 lb	FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x4 SP M 31 **BOT CHORD** 2x4 SP No.2

WEBS 2x4 SP No.3 SLIDER Left 2x8 SP 2400F 2.0E -t 3-4-5

REACTIONS. (size) 4=0-7-4, 1=0-8-0 Max Horz 1=158(LC 12)

Max Uplift 4=-262(LC 12), 1=-192(LC 12) Max Grav 4=333(LC 1), 1=333(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 3-4=-311/390

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=70ft; L=30ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-4-0 to 3-4-0, Interior(1) 3-4-0 to 7-0-0 zone; cantilever left exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=262, 1=192.

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January 24,2021

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\*\*AMSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



.loh Truss Truss Type Qty T22567973 1444\_A\_160\_C\_2020 V1 Valley Job Reference (optional)
8.430 s Nov 30 2020 MiTek Industries, Inc. Fri Jan 22 09:48:37 2021 Page 1

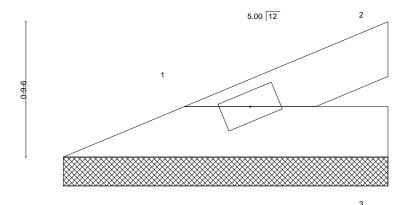
Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950, ID:z8fDllDUtzcAQZ7eytnzPlz2SFo-YELUuZjipXb9BlsT\_IIUjH51FyZU47r5OfBlJazsr6e

Structural wood sheathing directly applied or 1-10-8 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

1-10-8

Scale = 1:6.7



2x4 /

LOADING (psf) TCLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.25	CSI. TC 0.03	Vert(LL) n/a -	l/defl L/d n/a 999	PLATES GRIP MT20 244/190
TCDL 20.0 BCLL 0.0 * BCDL 10.0	Lumber DOL 1.25 Rep Stress Incr YES Code FBC2020/TPI2014	BC 0.01 WB 0.00 Matrix-P	Vert(CT) n/a - Horz(CT) -0.00 2	n/a 999 n/a n/a	Weight: 5 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2

**BOT CHORD** 2x4 SP No.2

> (size) 1=1-10-8, 2=1-10-8, 3=1-10-8 Max Horz 1=26(LC 12)

Max Uplift 1=-12(LC 12), 2=-29(LC 12)

Max Grav 1=57(LC 1), 2=48(LC 17), 3=23(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=70ft; L=30ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 2.

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\*\*ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



.loh Truss Truss Type Qty T22567974 1444\_A\_160\_C\_2020 V2 Valley Job Reference (optional) 8.430 s Nov 30 2020 MiTek Industries, Inc. Fri Jan 22 09:48:38 2021 Page 1 Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950, ID:z8fDllDUtzcAQZ7eytnzPlz2SFo-0Qvt5vkKarj0oSRfY0pjFUe8SLtKpa4FcJwsr0zsr6d 3-10-8 Scale = 1:10.8 2x4 || 5.00 12 3 2x4 || 2x4 = LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 20.0 Plate Grip DOL 1.25 TC Vert(LL) 999 244/190 **TCLL** 0.26 n/a n/a **TCDL** 20.0 Lumber DOL 1.25 ВС 0.10 Vert(CT) n/a 999 n/a **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 n/a n/a

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BCDL

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3

10.0

REACTIONS. 1=3-10-8, 3=3-10-8 (size)

Max Horz 1=67(LC 12) Max Uplift 1=-30(LC 12), 3=-58(LC 12) Max Grav 1=150(LC 1), 3=155(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

Code FBC2020/TPI2014

#### NOTES-

1) Wind: ASCE 7-16; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=70ft; L=30ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-P

- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

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Weight: 12 lb

Structural wood sheathing directly applied or 3-10-8 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

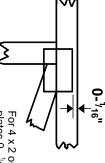
FT = 20%

## Symbols

# PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated.
Dimensions are in ft-in-sixteenths.
Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0-  $\frac{1}{16}$ " from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

\* Plate location details available in MiTek 20/20 software or upon request.

## PLATE SIZE

4 × 4

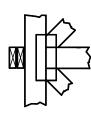
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

## **BEARING**



Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

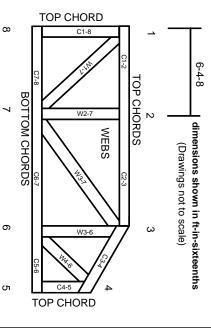
Min size shown is for crushing only

## Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing.
Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-89:

# **Numbering System**



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

## PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

# **General Safety Notes**

# Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

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- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber

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- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.