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

This form shall be completed and submitted with Application Documents

Owners Name	D R HORTON INC			P.I.D.	0366118190
Project Address	272 Soliera St. NOKOMIS , FL, 34275				
Design Professional	Structural Systems	Phone	239-549-4554	Fax	
Contractor	DR HORTON INC	Phone	239-266-2600	Fax	

Applicable Codes

Building Code	Florida Building Code	2020 Residential Volume
Mechanical Code	Florida Building Code	2020 Residential Volume
Plumbing Code	Florida Building Code	2020 Residential Volume
Electrical Code	NFPA 70 / NEC 2020	
Accessibility Code	Florida Building Code	FACBC 2020
Energy Code	Florida Building Code	Residential Energy Efficiency 2020

Manufacturer / FL Product Approval / NOA #

Doors / SGD	SGDFL14634R3-FL12225 R4
Windows	SH Windows - Impact FL17499.8
Overhead Doors	Wayne-Dalton FL9174-R13
Mitered Glass	N/A
Shutters	ALL AMERICAN -FL17869.1
Roof Coverings	IKO INDUSTRIES - FL7006-R10
Soffit	AMERICAN CONSTRUCTION -FL
Sentricon Bait	BORA CARE

Method of Design per R301 / Residential Volume

_____ AF&PA (WFCM) _____ ASCE 7 _____ AISI (COFS/PM) _____ ICC 600

_____ MAF Guide Other _____

X FBC 2020 / Residential

Volume **Construction Type** IV V (circle one) Other VB

Design Wind Speed 160 m.p.h. R301.2 (4)

Importance Factor 1.0

Wind Debris Area (Yes) No Exposure B or (C) (circle one)

Structural Forces Section R301.4 / R301.5 / R301.6

Floor Design Live Load 40 p.s.f
Dead Load Slab On Grade p.s.f

Roof Design Live Load 20 p.s.f
Dead Load TC=20 BC=10 p.s.f

WINDOW & DOOR WIND PRESSURE DESIGN LOADING

Mean Roof Height	15	feet
Windows	+33.5, -44.8	psf
Doors	+33.5, -44.8	psf
Garage Doors	+29.4,-33.3	psf

Please Show Design Pressure for Worst Case ONLY

Components and Cladding Design Pressures: R301.2 (7)

Z1	+24.9, -44.8 p.s.f.	Z3	+24.9, -61.7 p.s.f.	Z5	+33.5, -44.8 p.s.f.
Z2	+24.9, -61.7 p.s.f.	Z4	+33.5, -36.3 p.s.f.	a= edge distance	4 ft.

Misc. Notes

For Specific window and door pressures, see Sheet A3 or S-2, whichever one is sealed.

Area Tabulation

Living	2,221	sf / Conditioned Space
Garage	652	sf
Lanai	230	sf
Entry	35	sf
Storage		sf
Other		sf
	3,138	**Total square footage**

I certify to the best of my knowledge and belief, these plans and specifications have been designed to comply with the structural portion of the Building Code for wind and gravity loads as amended and enforced by the permitting jurisdiction.

Signature _____ **Date** _____
Architect / Engineer

RAUL REYES LICENSE No. 88925 STATE OF FLORIDA PROFESSIONAL ENGINEER

Seal Residential Data Summary Worksheet

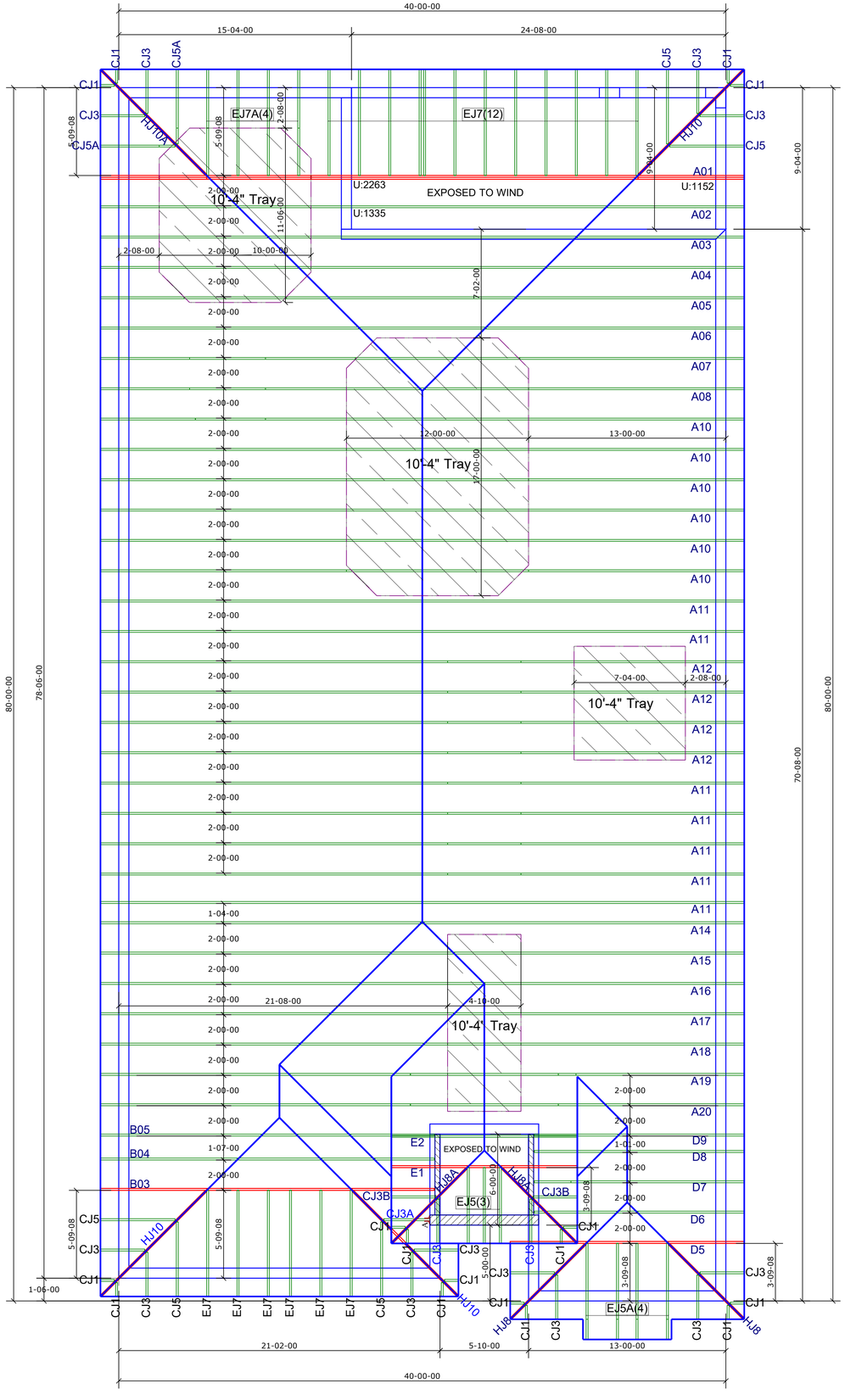
This item has been digitally signed by Raul Reyes on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be validated on any electronic copies.

JOB No.	MASTER
DATE DRAWN	8/10/2020
DATE PRINTED	1/21/2021

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 As-Is ☐ Accepted As Noted ☐ Revise and Resubmit



GENERAL TRUSS ENGINEERING CRITERIA & DESIGN LOADS	
DESIGN CODE	FBC2020/TPI2014
WIND CODE	MWFRS (Directional)/C-C HYBRID WIND ASCE 7-16
WIND LOAD	160 MPH
EXPOSURE CATEGORY	C
OCCUPANCY CATEGORY	II
IMPORTANCE FACTOR	1.0
WIND DURATION FACTOR	1.60
OPENING CONDITIONS	ENCLOSED

TRUSSES HAVE BEEN DESIGNED FOR A 10.0 PSF BOTTOM CHORD LIVE LOAD NONCONCURRENT WITH ANY OTHER LIVE LOADS

TRUSS LOADING	ROOF
TCLL	20 PSF
TCDL	20 PSF
BCLL	0 PSF
BCDL	10 PSF
TOTAL	50 PSF
DURATION	1.25
TCDL / TO RESIST UPLIFT	5 PSF
BCDL / TO RESIST UPLIFT	5 PSF

Hatch Legend

13'-11" Bearing

TYP. ROOF TRUSS END DETAIL
N.T.S.

SIMPSON CONNECTOR SCHEDULE

ROOF TRUSS

QTY	ID	MODEL	ROOF	UPLIFT	SYMBOL
1	A*	HU26	895	490	
0	A	HTU26	3200 / 3600	1250 / 1555	
0	B	HTU28	3895 / 4680	1235 / 2140	
0	C	HTU26-2	3600	1515 / 2175	
0	D	HTU28-2	4310 / 4680	1530 / 3485	
0	E	HGUS26-2	5320	2155	
0	F	HGUS28-2	7460	3235	
0	G	HGUS26-3	5230	2155	
0	H	HGUS28-3	7460	3235	
0	J	HGUS210-4	9100	4095	
	K	SPECIAL			

ACCESSORIES

3x8 NAIL ON PLATES
SEAT PLATES

SCREWS		BOLTS	
QTY	MODEL	QTY	MODEL
	SDS 1/4" x 3"		1/2" x 8" CARR. BOLTS
	SDS 1/4" x 4-1/2"		1/2" WASHERS
	SDS 1/4" x 6"		1/2" NUTS

A HU26 1 PLY TYP. C HTU26-2 2 PLY TYP. L HHUS46 FLOOR TYP.

MISCELLANEOUS

ROOF TRUSS		FLOOR TRUSS	
QTY	MODEL	QTY	MODEL

FLOOR TRUSS

QTY	ID	MODEL	FLOOR	UPLIFT	SYMBOL
0	A*	LUS24	895	490	
0	A	HTU26	3200 / 3600	1250 / 1555	
0	B	HTU28	3895 / 4680	1235 / 2140	
0	C	HTU26-2	3600	1515 / 2175	
0	D	HTU28-2	4310 / 4680	1530 / 3485	
0	E	HGUS26-2	5320	2155	
0	F	HGUS28-2	7460	3235	
0	G	HGUS26-3	5230	2155	
0	H	HGUS28-3	7460	3235	
0	J	HGUS210-4	9100	4095	
0	L	HHUS46	2790	1550	
0	M	THA422	1415 / 2245	N/A	
0	N	THAC422	1415 / 2245	N/A	
0	O	THA426	2435 / 2245	N/A	

ACCESSORIES

3x8 NAIL ON PLATES
SEAT PLATES

SCREWS		BOLTS	
QTY	MODEL	QTY	MODEL
	SDS 1/4" x 3"		1/2" x 8" CARR. BOLTS
	SDS 1/4" x 4-1/2"		1/2" WASHERS
	SDS 1/4" x 6"		1/2" NUTS

NOTES:
1) 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.

REFER TO FINAL ENGINEERING SHEETS FOR THE FOLLOWING.

1) NUMBER OF GIRDER PLIES AND NAILING SCHEDULE.

2) BEARING BLOCK REQUIREMENTS.

3) SCAB DETAILS (IF REQUIRED)

4) UPLIFT AND GRAVITY REACTIONS.

WARNING
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.

ROOF PITCH	5/12
CEILING PITCH	FLAT
TOP CHORD SIZE	2 x 4 MIN.
BOTTOM CHORD SIZE	2 x 4 MIN.
OVERHANG LENGTH	N/A
CANTILEVER	14 1/2"
END CUT	PLUMB
FLOOR TRUSS SPACING	N/A
ROOF TRUSS SPACING	24"

BUILDER	DR Horton
PROJECT	2221 M 160 C LH
MODEL	2221
ADDRESS	--
CITY, STATE	--, FL.
LOT	--
COUNTY	--
DRAWN BY	D.W.
ENG. BY	D.W.

REVISIONS

No.	DATE	NOTES	BY
1	1/21/2021	Updated code to FBC2020/TPI2014	D.W

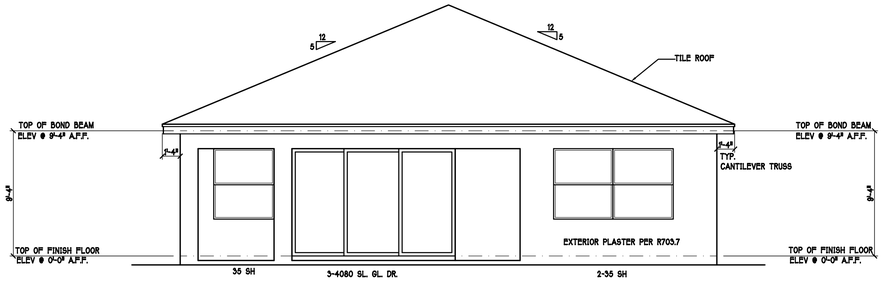
IMPORTANT

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.

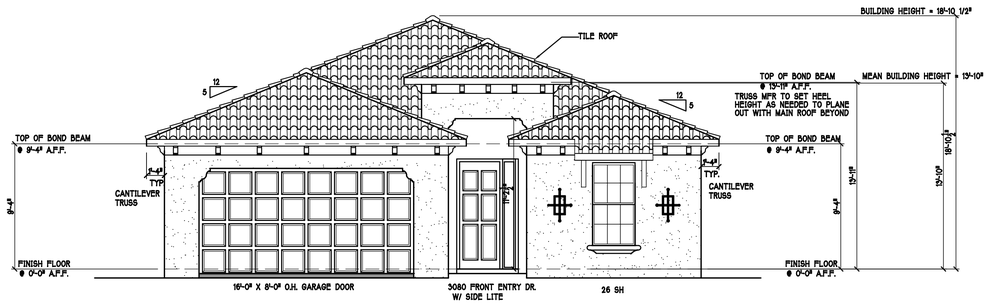
By _____ Date _____

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

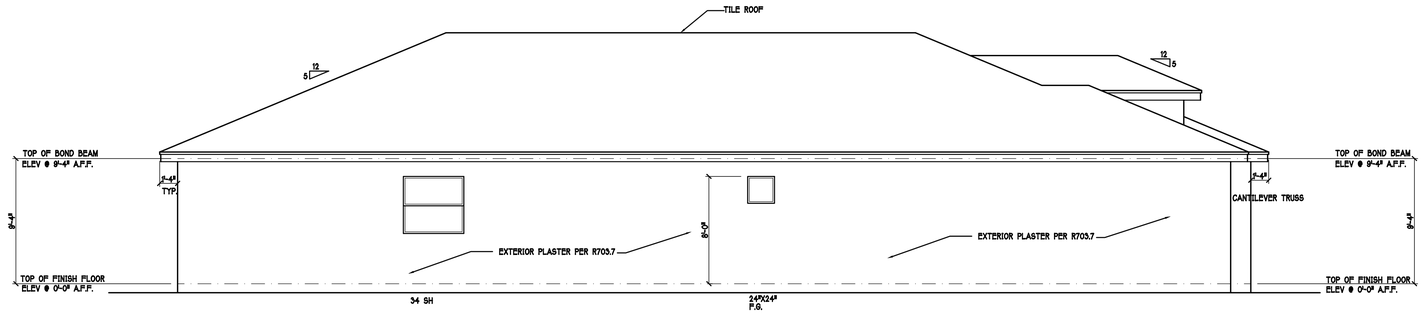
Builders FirstSource



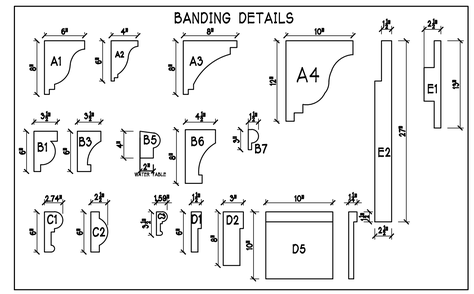
REAR ELEVATION: "M" SCALE: 3/16" = 1'-0"

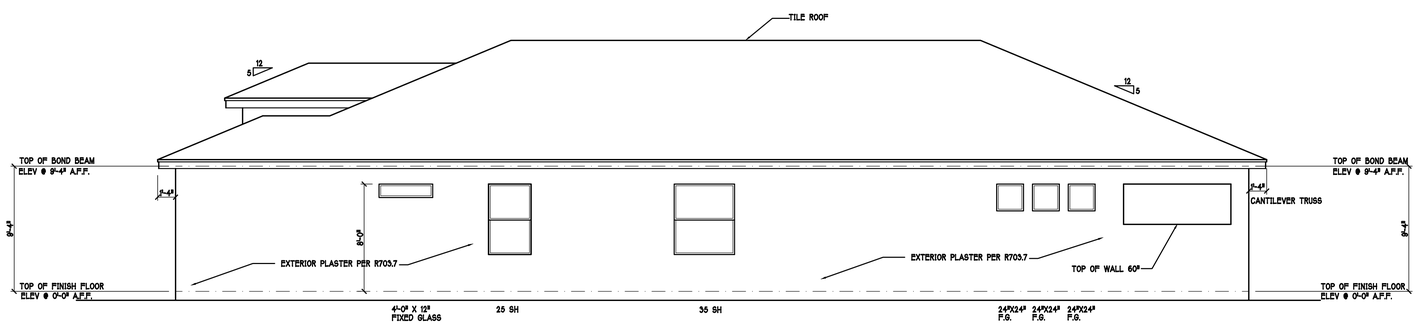


FRONT ELEVATION: "M" SCALE: 3/16" = 1'-0"



LEFT SIDE ELEVATION: "M" SCALE: 1/4" = 1'-0"

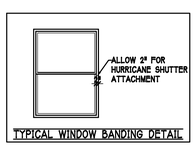




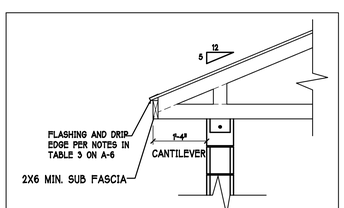
RIGHT SIDE ELEVATION: "M" SCALE: 3/16" = 1'-0"

FLORIDA BUILDING CODE 7TH EDITION

OCCUPANCY: FBC 310.5 RESIDENTIAL GROUP R-3 CONSTRUCTION TYPE: V-B (FIRE RESISTANCE RATING 0 HOURS, NOT SPRINKLED) CODES TO BE USED BY OTHER DESIGN PROFESSIONALS AND LICENSED CONTRACTORS: 2020 FLORIDA BUILDING CODE, 7TH EDITION: RESIDENTIAL; ACCESSIBILITY; ENERGY CONSERVATION; PLUMBING; MECHANICAL; AND FUEL GAS. ELECTRICAL IS CONTAINED BY REFERENCE WITHIN FBC RESIDENTIAL CHAPTER 34: NFPA 70-17 NATIONAL ELECTRICAL CODE.



TYPICAL WINDOW BANDING DETAIL



SOFFIT DETAIL SCALE: 3/4" = 1'-0"

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

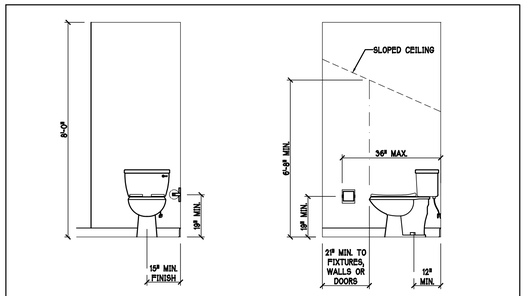
D·R·HORTON
America's Builder

Gulf Coast Drafting
& Design
Phone (239) 540-1822
Fax (239) 540-7759

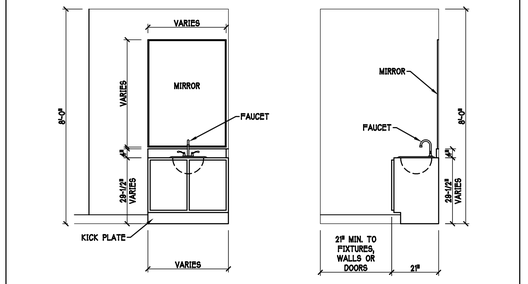
MODEL: UNIT 2221
RESIDENCE FOR: SPEC

LOT: 819 BLOCK:
SUBDIV: TOSCANA III & IV 50s
ADDRESS: 272 SOLIERA STREET
G.C.D.#: 12940 D.R.H.#: 579580149

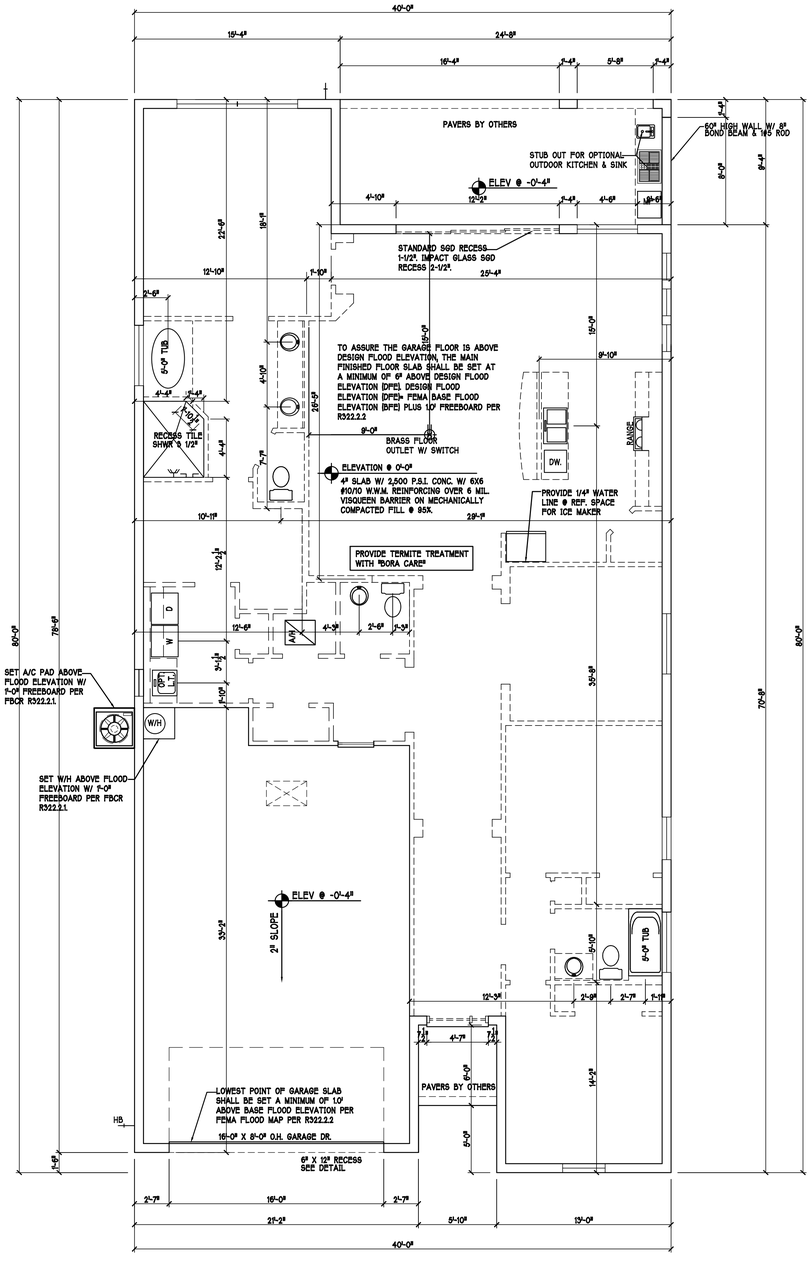
DATE: 07-10-21
DRAWN BY: JSL
CHECKED BY: JWC
REVISED:
PLAN: ELEVATIONS
SCALE: 3/16" = 1'-0"
SHEET# A-1 M



WATER CLOSET CLEARANCE DETAIL



VANITY SINK CLEARANCE DETAIL



SLAB & PLUMBING PLAN: SCALE: 3/16"=1'-0"

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

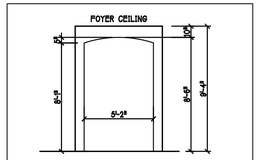
D·R·HORTON America's Builder

Gulf Coast Drafting & Design
Phone (239) 540-1822
Fax (239) 540-7759

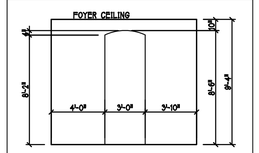
MODEL: UNIT 2221
RESIDENCE FOR: SPEC

LOT: 819 BLOCK :
SUBDIV: TOSCANA III & IV 50s
ADDRESS: 272 SOLIERA STREET
G.C.D.# : 12940 D.R.H.# : 579580149

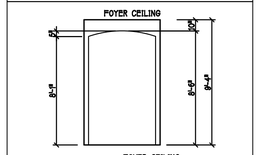
DATE: 07-10-21
DRAWN BY: JSL
CHECKED BY: JWC
REVISED:
PLAN: SLAB & PLUMBING
SCALE: 3/16" = 1'-0"
SHEET# A-2M



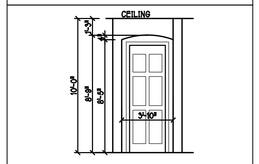
1/3 FOYER DETAIL



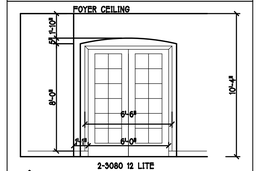
2/3 HALL/FOYER DETAIL



3/3 DEN/FOYER DETAIL



4/3 MASTER SUITE DETAIL



5/3 DEN/FOYER DETAIL

D R HORTON

MARK	SIZE CODE	PRODUCT DESCRIPTION	WIDTH	HEIGHT	COMMENTS	QTY
1	OVERHEAD	GARAGE DOOR	192	96		1
2	3080 ENTRY DR.	DISTINCTION	36	96		1
						2

D R HORTON

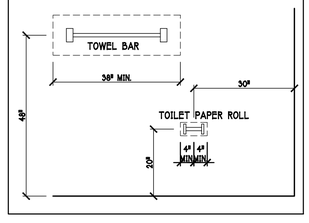
MARK	SIZE CODE	PRODUCT DESCRIPTION	WIDTH	HEIGHT	COMMENTS	QTY
A	35 SH		54	63		2
B	25 SH		38	63		1
C	48" X 12" P.G.	FIXED GLASS	48	12	TEMPERED	1
D	34 SH		54	51		1
E	2-35 SH		108	63		1
P	3-4080 SL. GL. DR.	SL. GL. DOOR	144	96		1
G	12" X 96" SIDE LITE		12	96		1
H	2'-0" X 2'-0"	FIXED GLASS	24	24		4
I	26 SH		38	78		1
						13

SEE NOTE 1

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

BATHROOM NOTES

TB TOWEL BAR	ALL TUB DECKS @ 21" A.F.F.
TP TOILET PAPER	ALL BLOCKING TO BE PT IN SHOWERS



DOOR HEADERS

6'-8" BIFOLD	HEADER HEIGHT	82" A.F.F.
6'-8" SWING	HEADER HEIGHT	82 1/2" A.F.F.
8'-0" SWING	HEADER HEIGHT	98 1/2" A.F.F.

PLAN NOTES

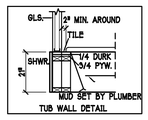
1) VERIFY ALL ROUGH OPENING DIMENSIONS FOR ALL WINDOWS AND DOORS
2) PROVIDE SAFETY GLAZING WITHIN 24" FROM EXIT PER FLORIDA BUILDING CODE R 308.4.2.
3) PROVIDE SAFETY GLAZING AT BATH / SHOWER . PER FLORIDA BUILDING CODE R 308.4.5.
4) NON BEARING INTERIOR FRAME WALLS SHALL BE FRAMED W/ WOOD OR METAL STUDS. SPACING SHALL NOT EXCEED 24" O.C. (NON BEARING WALLS ONLY)
5) PROVIDE DEAD WOOD IN ATTIC FOR OVERHEAD GARAGE DOOR HARDWARE
6) KITCHEN KNEE WALL TO BE FRAMED W/ TOP @ 41 1/2" A.F.F. W/ RAISED BAR TOP
7) INSTALL SMOOTH WALLS IN KITCHEN AND ALL BATHROOM AREAS
8) WHERE DRYWALL CEILING IS APPLIED TO TRUSSES AT 24" O.C. USE 5/8" DRYWALL OR 1/2" SAG RESISTANT PER SEC. R702.3.5
9) 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 SEPARATION IS A FLOOR - CEILING ASSEMBLY THE STRUCTURE SUPPORTING THE SEPARATION SHALL ALSO BE PROTECTED BY NOT LESS THAN 1/2" GYPSUM BOARD OR EQUIVALENT
10) INSTALL 1 3/8" THICK SOLID WOOD DOOR BETWEEN LIVING AND GARAGE PER FLORIDA BUILDING CODE R302.5.1,
11) ALL WINDOWS INSTALL 72" ABOVE GRADE MUST COMPLY WITH R 312.2.1 MIN 24" SILL HEIGHT OR PROVIDED WITH AN APPROVED WINDOW FALL PREVENTION DEVICE
12) STUB OUT FOR GAS @ OUTDOOR KITCHEN, RANGE, WATER HEATER, AND DRYER. VERIFY WITH CONTRACTOR AND SUBDIV. SPECS. A SEPARATE PERMIT IS REQUIRED FOR GAS PIPING.
13) ALL CLOSET SHELVES TO BE 12". ALL PANTRY & LINEN TO BE (4)-16" SHELVES 18" O.F.F. WITH 15" INCREMENT.
14) ALL MECHANICAL AND ELECTRICAL EQUIPMENT TO BE INSTALLED AT OR ABOVE FLOOD PLUS 1'-0" FREEBOARD.

CABINET BACKING

KITCHEN	UPPER TOP @ 84"	BASE TOP @35"
MASTER BATH	UPPER	BASE- TOP @35"
GUEST BATH	UPPER	BASE- TOP @35"
LAUNDRY RM.	UPPER TOP @84"	BASE

INTERIOR DOOR SCHEDULE

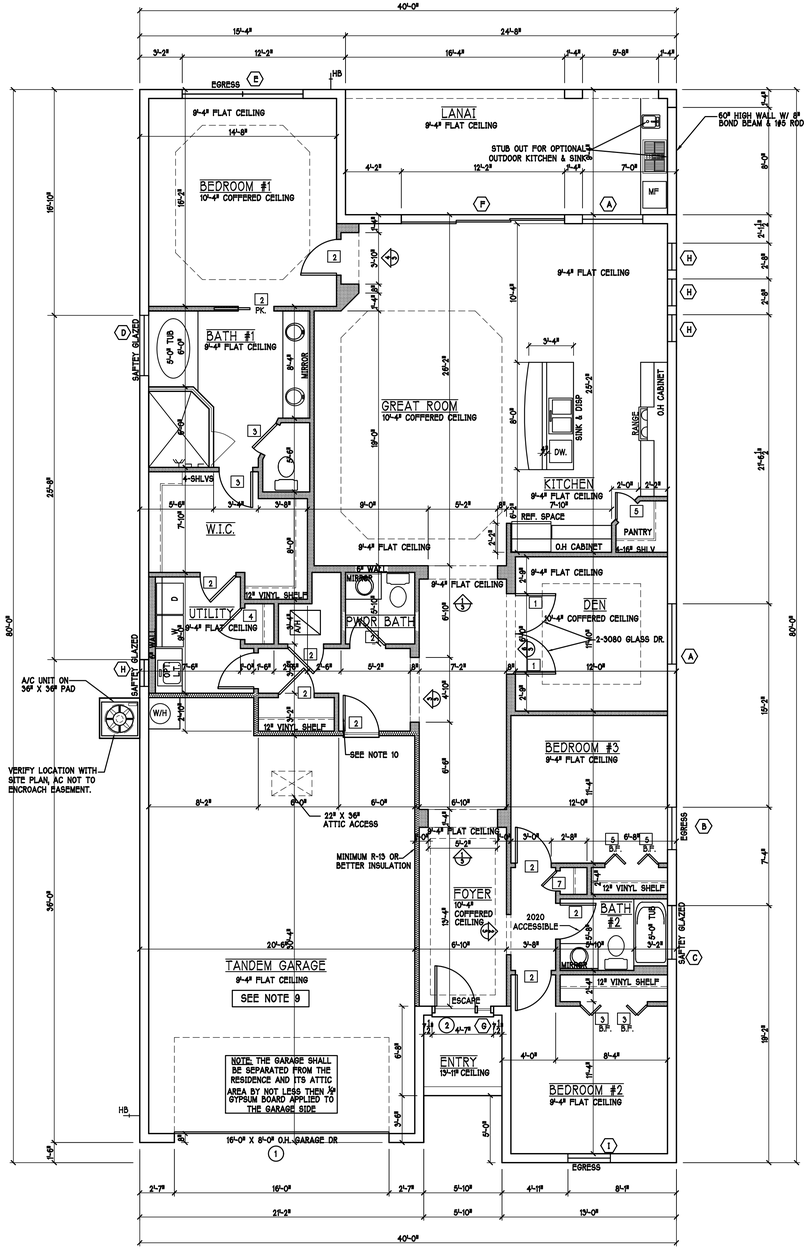
MARK	DOOR WIDTH	NOTES
1	3'-0"	PK. = POCKET DOOR
2	2'-8"	B.F. = BI-FOLD DOOR
3	2'-6"	B.P. = BI-PASS DOOR
4	2'-4"	LV. = LOUVERED DOOR
5	2'-0"	
6	1'-8"	
7	1'-6"	



TUB WALL DETAIL

SQUARE FOOTAGE

LIVING AREA	2221
GARAGE AREA	552
LANAI AREA	230
ENTRY AREA	35
TOTAL AREA	3138



1st FLOOR PLAN: SCALE: 3/16" = 1'-0"

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

D·R·HORTON America's Builder

Gulf Coast Drafting & Design
Phone (239) 540-1822
Fax (239) 540-7759

MODEL: UNIT 2221
RESIDENCE FOR: SPEC

LOT: 819 BLOCK: :
SUBDIV: TOSCANA III & IV 50s
ADDRESS: 272 SOLIERA STREET
G.C.D.#: 12940 D.R.H.#: 5795801149

DATE: 07-10-21
DRAWN BY: JSL
CHECKED BY: JWC
REVISED:
PLAN: FLOOR
SCALE: 3/16"=1'-0"
SHEET# A-3M

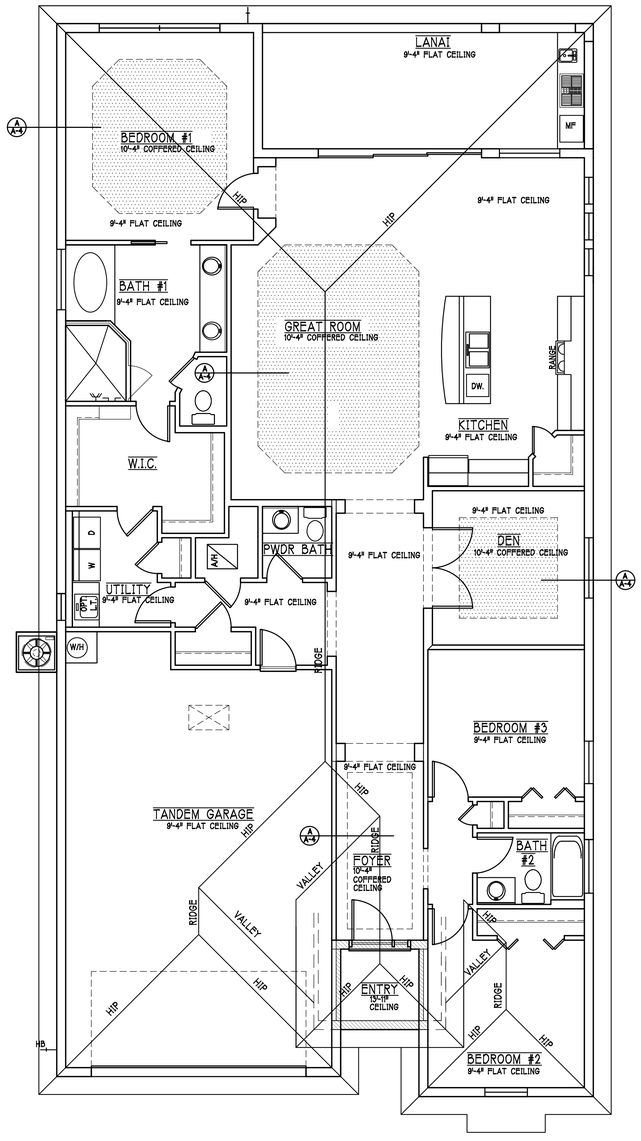
MODEL 2221 M: ATTIC VENTILATION FBCR R806

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		
MARK	ATTIC	SOFFIT	ATTIC AREA/150	REQ'D AIR FLOW OF SOFFIT	QUAD 4 SOFFIT HAS	ATTIC AREA/300	QUANTITY OF ROOF VENTS	MIN AIR FLOW OF SOFFIT
1st STORY	3443.4 SQ. FT.	304.3 SQ. FT.	22.96 SQ. FT.	7.55%	8.15%	-.-- SQ. FT.	-	-.-%
			"SOFFIT ONLY" QUALIFIES			ROOF VENTS ARE NOT REQUIRED		
			SOFFIT MODEL ACM QUAD 4, FULL VENT, NARROW PATTERN, 8.15% FREE AIR FLOW			ROOF VENT MODEL 2x2 BASE 2x-3/8" BASE LOMANCO 770-D 0.97 SQ. FT. FREE AIR		

A / A-4 COFFER DETAIL "A" SCALE: 1/2" = 1'-0"

BEARING HEIGHTS
= BEARING @ 9'-4" A.F.F.
= BEARING @ 13'-11"



CEILING PLAN: "M" SCALE: 3/16" = 1'-0"

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

D·R·HORTON America's Builder

Gulf Coast Drafting & Design
Phone (239) 540-1822
Fax (239) 540-7759

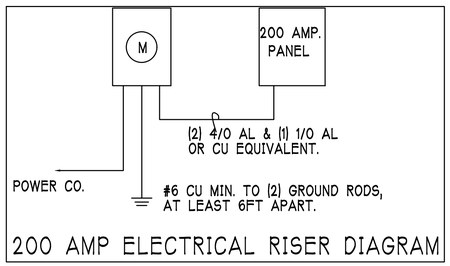
MODEL: UNIT 2221
RESIDENCE FOR: SPEC

LOT: 819 BLOCK :
SUBDIV: TOSCANA III & IV 50s
ADDRESS: 272 SOLIERA STREET
G.C.D.#: 12940 D.R.H.#: 5795801149

DATE: 07-10-21
DRAWN BY: JSL
CHECKED BY: JWC
REVISED:
PLAN: ROOF & CEILING
SCALE: 3/16"=1'-0"
SHEET# A-4M

ELECTRICAL PLAN 2221

200 Amp Service			
TAG	QUANTITY	PRODUCT	
A	(25)	Flush Mounted Lt	
B	(4)	Vapors	
C	(1)	Pendant/Nook	
D	(X)	10" Mushrooms	
E	(3)	24" 3 LT	
F	(2)	36" 4 LT	
G	(X)	NOT USED	
H	(3)	Coach Lights	
J	(X)	Coach Lights	
K	(X)	J BOX	
L	(4)	4' Fluorescent	
M	(3)	2' Fluorescent	
N	(X)	5lt Chandelier	
O	(1)	3 LT	
P	(3)	Pendant Light	



200 AMP ELECTRICAL RISER DIAGRAM

ELECTRICAL LEGEND

	ELECTRICAL METER
	ELECTRICAL PANEL
J	120 V JUNCTION BOX
	SINGLE RECEPTACLE OUTLET
	220 V RECEPTACLE OUTLET
	4-PLEX RECEPTACLE OUTLET
	DUPLEX RECEPTACLE OUTLET
	1/2 SWITCHED DUPLEX OUTLET
	DUPLEX RECETACLE @ ELEV. A.F.F.
T	TIMER SWITCH
GFI	GFI SWITCH
D	DIMMER SWITCH
3	3 WAY SWITCH
	SINGLE POLE SWITCH
SD	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
SCD	
TP	TELEPHONE OUTLET
TV	TELEVISION RECEPTION OUTLET
	SURFACE MOUNTED CEILING LIGHT
	FLUSH MOUNTED LIGHT
	WALL MTD. BRACKET LIGHT
	DUPLEX FLOOD LIGHT
	EXHAUST FAN
	TRACK MTD. LIGHTS
	A/C DISCONNECT
	PUSH BUTTON
DB	DOOR BELL
	KEYPAD
	4' FLUORESCENT LIGHT
	2' UNDER COUNTER LIGHT

Electrical Notes:

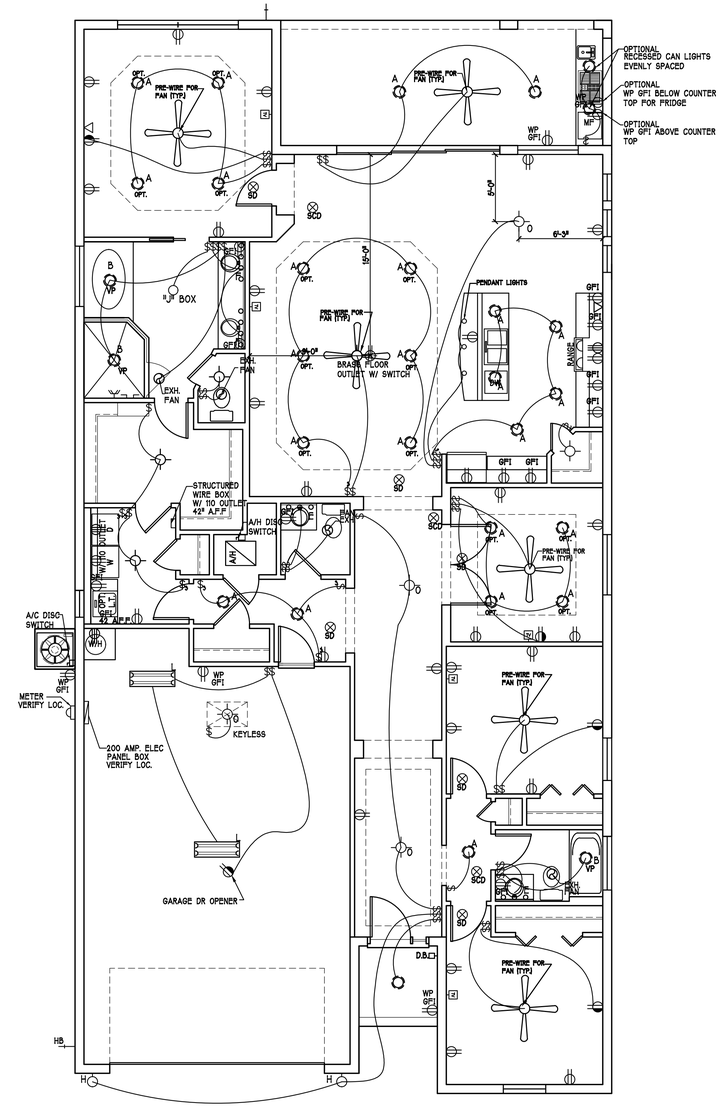
Install Arc-Fault circuit-Interrupters & Tamper-Resistant Receptacles shall be installed in dwelling unit. per NEC 210.12 & 406.11

All electric, electrical equipment and appliances to be set at or above base flood elevations plus 1'-0" freeboard.

All outlets in wet areas and all exterior outlets to be GFI's

Install Phone & T.V per contract .

INSTALL ALL ELECTRICAL PER NEC 2014



FLOOR ELECTRICAL PLAN: SCALE: 3/16" = 1'-0"

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MODEL: UNIT 2221
RESIDENCE FOR: SPEC
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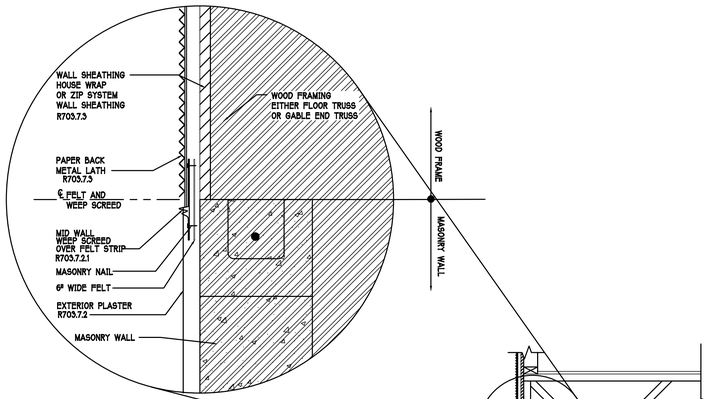
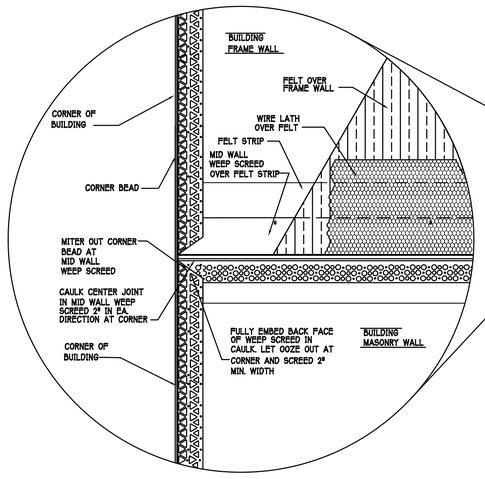
G.C.D.# : 12940 D.R.H.# : 5795801149

DATE: 07-10-21
DRAWN BY: JSL
CHECKED BY: JWC
REVISED:
PLAN: ELECTRICAL
SCALE: 3/16"=1'-0"
SHEET# A-5 M

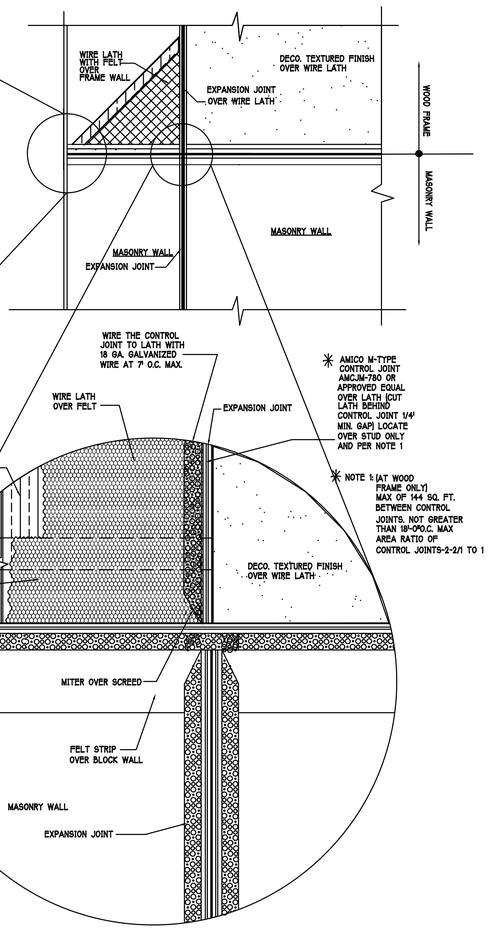


R703.7 EXTERIOR PLASTER

ASTM C926 AND ASTM C1063



MID WALL WEEP SCREED DETAIL



WEEP SCREED DETAIL

INSTALL AT ALL EXTERIOR WALL LOCATIONS WHERE WOOD STUD FRAMING IS ABOVE MASONRY WALLS.

1

RESIDENTIAL SPECIFICATIONS

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL REPORT ALL DISCREPANCIES BETWEEN THE DRAWINGS AND EXISTING CONDITIONS TO THE DESIGNER PRIOR TO COMMENCING WORK.
2. THE CONTRACTOR SHALL SUPPLY, LOCATE AND BUILD INTO THE WORK ALL INSERTS, ANCHORS, ANGLES, PLATES, OPENINGS, SLEEVES, HANGERS, SLAB DEPRESSIONS AND PITCHES AS MAY BE REQUIRED TO ATTACH AND ACCOMMODATE OTHER WORK.
3. ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUCTED TO APPLY TO ANY SIMILAR SITUATION ELSEWHERE IN THE WORK EXCEPT WHERE A DIFFERENT DETAIL IS SHOWN.
4. SUBSURFACE SOIL CONDITION INFORMATION IS NOT AVAILABLE. FOUNDATIONS ARE DESIGNED FOR A SOIL BEARING CAPACITY OF 2,000 PSF. THE CONTRACTOR SHALL REPORT ANY DIFFERING CONDITIONS TO THE DESIGNER PRIOR TO COMMENCING WORK.
5. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH JOB SPECIFICATION AND HOUSE PLANS, MECHANICAL, ELECTRICAL, PLUMBING AND SITE DRAWINGS. CONSULT THESE DRAWINGS FOR SLEEVES, DEPRESSIONS AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.
6. ALL SPECIFIED FASTENERS MAY ONLY BE SUBSTITUTED IF APPROVED BY THE ENGINEER IN WRITING, THE INSTALLATION OF THE FASTENERS SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS. SIMPSON FASTENERS SPECIFIED MAY BE SUBSTITUTED WITH THE SAME QUANTITY AND EQUIVALENT STRENGTH PRODUCT.
7. TREATED WOOD REQUIREMENTS:- ALL WOOD EXPOSED TO WEATHER SHALL BE PROTECTED, PRESSURE TREATED, OR NATURALLY RESISTANT TO DECAY. ALL WOOD TOUCHING MASONRY OR CONCRETE SHALL BE ISOLATED, OR PRESSURE TREATED.
8. THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCES TO ENSURE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS INCLUDES THE NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS, OR TIE DOWNS.
9. CEILING DRYWALL INSTALLED WITHIN THE HOUSE TO TRUSSES SPACED 24" O.C. SHALL BE 5/8" DRYWALL OR 1/2" SAG RESISTANT PER SEC. 702.3.5
10. LANAI CEILINGS & COVERED ENTRY CEILINGS 1X4 STRIPPING @ 16" O.C. FASTENED WITH 2-8d NAILS TO EACH TRUSS. 5/8" EXTERIOR GYPBOARD CEILING FASTENED WITH 8d NAILS OR 1-5/8" DRYWALL SCREWS @ 6" oc EDGE AND FIELD.

2

GENERAL ROOF ASSEMBLY

ROOF SHEATHING PBCR TABLE R803.2.2

SHALL BE 19/32 APA RATED SHEATHING, EXPOSURE 1, SPAN RATING 40/20 OR BETTER. INSTALL PANELS WITH LONG DIMENSION PLACED PERPENDICULAR TO TRUSSES. A 1/8" SPACE BETWEEN ADJACENT SHEETS SHALL BE MAINTAINED. INSTALL "H" CLIPS AT UNSUPPORTED PANEL EDGES. SEE STRCUTURAL.

FLASHING
FLASHING SHALL BE ALUMINUM, ALUMINUM ZINC COATED STEEL .0179 INCHES THICK, 26 GAGE A250 ALUM ZINC OR GALVANIZED STEEL .0179 INCHES THICK, 26 GAGE ZINC COATED G90. FLASHING SHALL BE INSTALLED IN ACCORDANCE WITH THE ZIP SYSTEM ROOF SHEATHING MANUFACTURERS PUBLISHED REQUIREMENTS. ALL FLASHING AND INSTALLATION SHALL CONFORM TO SECTION R905.2.8 (1 TO 8).

DRIP EDGE
DRIP EDGE SHALL BE PROVIDED AT ALL EAVES AND GABLES OF SHINGLE ROOFS, LAPPED A MINIMUM OF 3" @ JOINTS. THE OUTSIDE EDGE SHALL EXTEND A MINIMUM OF 1/2" BELOW SHEATHING AND THE INSIDE EDGE SHALL EXTEND BACK A MINIMUM OF 2". DRIP EDGE SHALL BE FASTENED AT NO MORE THAN 4" CENTERS. THERE SHALL BE A MINIMUM OF 4" WIDTH OF ROOF CEMENT INSTALLED OVER THE DRIP EDGE FLANGE.

3

ASPHALT SHINGLE ROOF SPEC'S

SHINGLES
30# felt shall be installed under asphalt shingles. All asphalt shingles shall have self sealing strips or be interlocking and comply with ASTM D 225 or D3462, and shall be secured to the roof with no less than 6 fasteners per shingle strip, or a minimum of 2 fasteners per shingle tab. And shall in no case be fastened with less fasteners than that required by the manufacture. Installation shall comply with the manufactures requirements for installation in the given Florida wind zone, as determined by ASTM D 3161

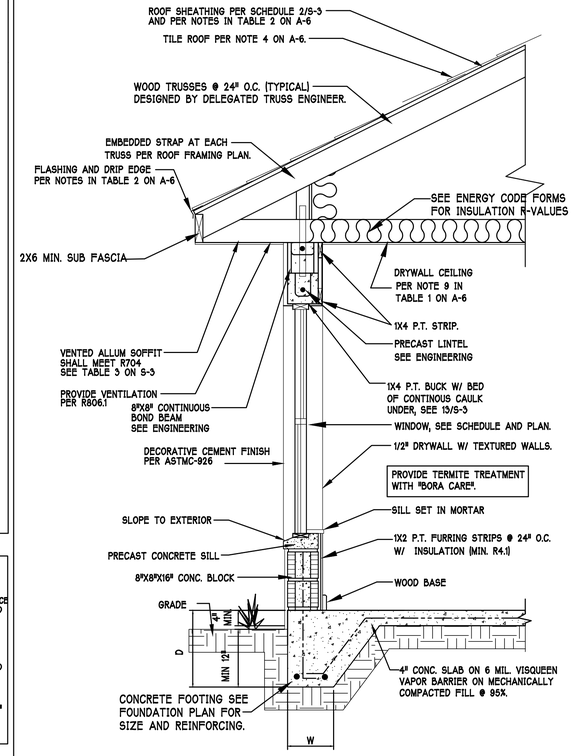
FASTENERS
Fasteners for asphalt shingles shall comply with ASTM F 1667, and shall be made of galvanized steel, stainless steel or aluminum with a minimum shank size of 12 gage (0.105 inches)with a minimum 3/8 inch diameter head and shall be of a length to penetrate the sheathing.

The nail component of plastic cap nails shall meet or exceed the requirements of ASTM A 641, Class 1, or equal, and shall be corrosion resistant by coating electro galvanization, mechanical galvanization, hot dipped galvanization or shall be made of stainless steel, non ferrous metal.

4

CLAY AND CONCRETE TILE ROOF SPECS

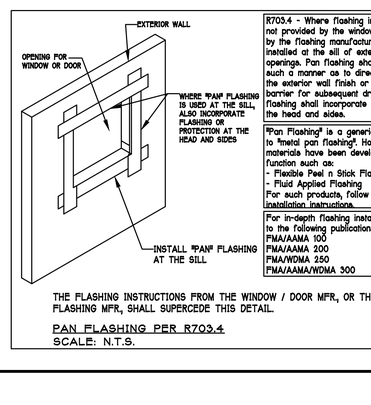
INSTALL PEEL AND STICK UNDERLAYMENT APPROVED FOR SINGLE LAYER APPLICATION UNDER TILE ROOF.
THE INSTALLATION OF CLAY AND CONCRETE TILE SHALL COMPLY WITH THE PROVISIONS OF R905.3 F.B.C.
MARKING: EACH ROOF TILE SHALL HAVE A PERMANENT MANUFACTURER'S IDENTIFICATION MARK.
APPLICATION SPECIFICATIONS: THE TILE MANUFACTURER'S WRITTEN APPLICATION SPECIFICATIONS SHALL BE AVAILABLE AND SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:
1. TILE PLACEMENT AND SPACING,
2. ATTACHMENT SYSTEM NECESSARY TO COMPLY WITH CURRENT WIND CODE,
A. AMOUNT AND PLACEMENT OF MORTAR
B. AMOUNT AND PLACEMENT OF ADHESIVE,
C. TYPE, NUMBER, SIZE, AND LENGTH OF FASTENERS AND CLIPS.
3. UNDERLAYMENT
4. SLOPE REQUIREMENT.



TYPICAL WALL SECTION

SCALE: N.T.S

2



R703.4 - Where flashing instructions or details are not provided by the window or door manufacturer or by the flashing manufacturer, "pan flashing" shall be installed at the sill of exterior window and door openings. Pan flashing shall be sealed or sloped in such a manner as to direct water to the surface of the exterior wall finish or to the water-resistive barrier for subsequent drainage. Openings using pan flashing shall incorporate flashing or protection at the head and sides.

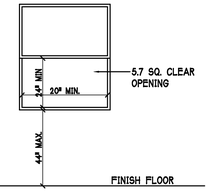
"Pan Flashing" is a generic term that used to refer to "metal pan flashing". However many modern materials have been developed for the same function such as:
- Flexible Peel n Stick Flashing Membrane
- Fluid Applied Flashing
For such products, follow the manufacturer's installation instructions.

For in-depth flashing installation instructions, refer to the following publications:
FMA/AAMA 100
FMA/AAMA 200
FMA/WDMA 250
FMA/AAMA/WDMA 300

THE FLASHING INSTRUCTIONS FROM THE WINDOW / DOOR MFR, OR THE FLASHING MFR, SHALL SUPERCEDE THIS DETAIL.

PAN FLASHING PER R703.4

SCALE: N.T.S.



R310.2.1 MINIMUM OPENING AREA:- ALL EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL HAVE A MINIMUM NET CLEAR OPENING OF 5.7 SQAURE FEET (0.530 m^2).

EXCEPTION:- GRADE FLOOR OPENINGS SHALL HAVE A MINIMUM NET CLEAR OPENING OF 5 SQUARE FEET (0.465 m^2).

R310.2.1 MINIMUM OPENING HEIGHT:- THE MINIMUM NET CLEAR OPENING HEIGHT SHALL BE 24 INCHES (610mm).

R310.2.1 MINIMUM OPENING WIDTH:- THE MINIMUM NET CLEAR OPENING WIDTH SHALL BE 20 INCHES (508mm).

R310.1.1 OPERATIONAL CONSTRAINTS:- EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL BE OPERATIONAL FROM THE INSIDE OF THE ROOM WITHOUT THE USE OF KEYS OR TOOLS.

R310.2.3 WINDOW WELLS:- THE MINIMUM HORIZONTAL AREA OF THE WINDOW WELL SHALL BE 9 SQUARE FEET (0.84 m^2), WITH A MINIMUM HORIZONTAL PROJECTION AND WIDTH OF 36 INCHES (914mm). THE AREA OF THE WINDOW WELL SHALL ALLOW THE EMERGENCY ESCAPE AND RESCUE OPENING TO BE FULLY OPENED.

MINIMUM EGRESS WINDOW DETAIL

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

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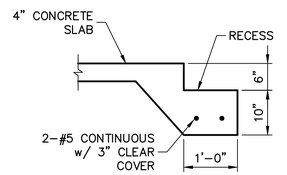
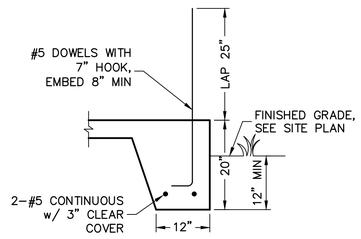
ADDRESS: 272 SOLIERA STREET
G.C.D.#: 12940 D.R.H.#: 579580149

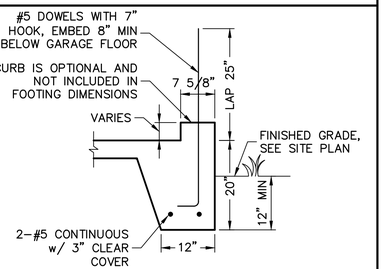
DATE: 07-10-21
DRAWN BY: JSL
CHECKED BY: JWC
REVISED:
PLAN: SECTION
SCALE: 3/16"=1'-0"
SHEET# A-6M



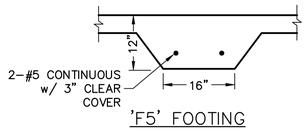
GARAGE DOOR RECESS



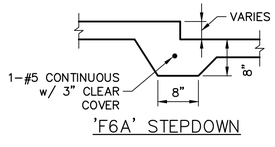
'F3' FOOTING



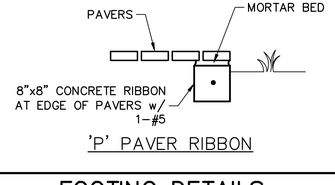
'F3' WITH CURB AT GARAGE



'F5' FOOTING

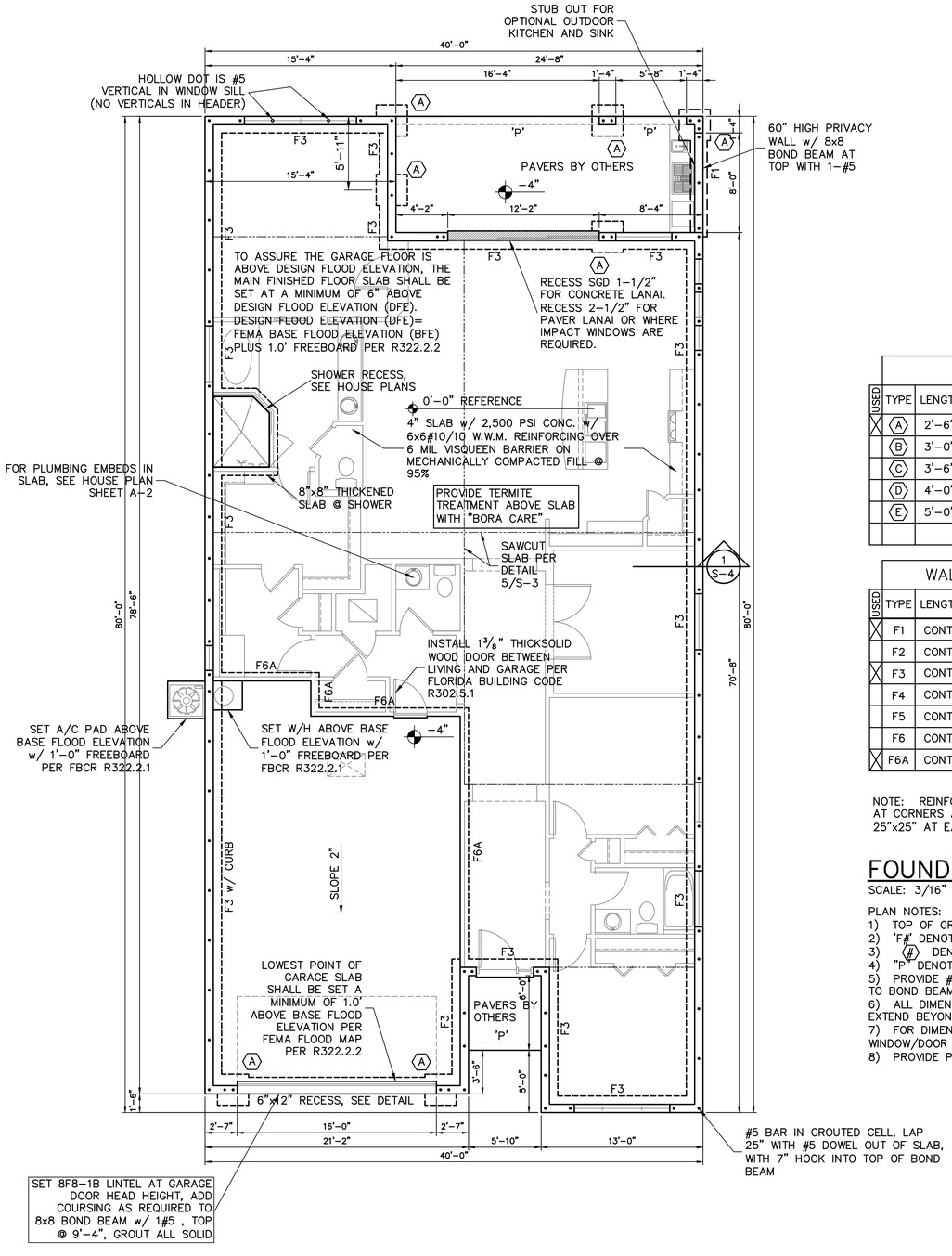


'F6A' STEPDOWN



'P' PAVER RIBBON

FOOTING DETAILS
SCALE: 3/4" = 1'–0"



PAD FOOTING SCHEDULE							
USED	TYPE	LENGTH	WIDTH	DEPTH	BOTTOM REINF.		REMARKS
					LONG WAY	SHORT WAY	
X	(A)	2'–6"	2'–6"	1'–0"	3–#5	3–#5	–
	(B)	3'–0"	3'–0"	1'–0"	4–#5	4–#5	–
	(C)	3'–6"	3'–6"	1'–0"	4–#5	4–#5	–
	(D)	4'–0"	4'–0"	1'–2"	5–#5	5–#5	–
	(E)	5'–0"	5'–0"	1'–2"	6–#5	6–#5	–

WALL FOOTING SCHEDULE						
USED	TYPE	LENGTH	WIDTH	DEPTH	BOTTOM REINFORCING	SHAPE
X	F1	CONT.	1'–4"	0'–8"	2–#5	
	F2	CONT.	1'–8"	0'–10"	2–#5	
X	F3	CONT.	1'–0"	1'–8"	2–#5	
	F4	CONT.	1'–4"	1'–8"	2–#5	
	F5	CONT.	1'–4"	1'–0"	2–#5	
	F6	CONT.	1'–4"	1'–0"	2–#5	
X	F6A	CONT.	0'–8"	0'–8"	1–#5	

NOTE: REINFORCING IN FOOTINGS SHALL BE CONTINUOUS AT CORNERS AND INTERSECTIONS. ADD CORNER BAR 25"x25" AT EACH LONGITUDINAL BAR PER DETAIL 6/S–3.

FOUNDATION PLAN
SCALE: 3/16" = 1'–0"

PLAN NOTES:
1) TOP OF GROUND FLOOR SLAB DATUM ELEVATION 0'–0".
2) 'F#' DENOTES CONTINUOUS WALL FOOTING TYPE PER SCHEDULE THIS SHEET.
3) (#) DENOTES PAD FOOTING AT CONCENTRATED LOADS PER SCHEDULE THIS SHEET.
4) "P" DENOTES 8"x8" CONCRETE RIBBON w/ 1–#5 BAR AT EDGE OF PAVERS.
5) PROVIDE #5 VERTICAL REINFORCING AT DOT LOCATIONS SHOWN ON PLAN FROM FOOTING TO BOND BEAM.
6) ALL DIMENSIONS ARE TO OUTSIDE FACE OF MASONRY WALLS. SOME SLAB EDGES MAY EXTEND BEYOND FACE OF WALL.
7) FOR DIMENSIONS OF ROUGH OPENINGS IN MASONRY WALLS, COORDINATE WITH WINDOW/DOOR SUPPLIER.
8) PROVIDE PRESSURE TREATED BUCKS AT WINDOWS / DOORS PER DETAIL 7/S–3.

REVISIONS	BY

FOR BUILDERS FIRST SOURCE TRUSS, 160 MPH, MODEL 2221 M, EXPOSURE C, M. ELEVATION, JOB # MASTER, DATE DRAWN: 08/10/20, DATE PRINTED: 01/21/21 REVISED: 01/21/21
DESIGNED IN ACCORDANCE WITH FLORIDA BUILDING CODE 7th EDITION (2020) RESIDENTIAL

STRUCTURAL ENGINEERING:
STRUCTURAL SYSTEMS OF NORTH FLORIDA
1634 S.E. 47th STREET, SUITE #3
CAPE CORAL, FL 33904
(239) 549–4554
CA# 8829

PAUL REYES LICENSE No. 88925 STATE OF FLORIDA PROFESSIONAL ENGINEER

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.

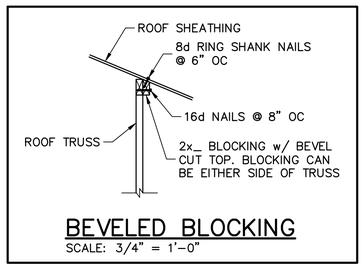
BUILDER: D·R HORTON America's Builder

MODEL 2221 M
272 SOLIERA STREET
VENICE, FLORIDA
LOT: 819 SUBDIVISION: TOSCANA III & IV

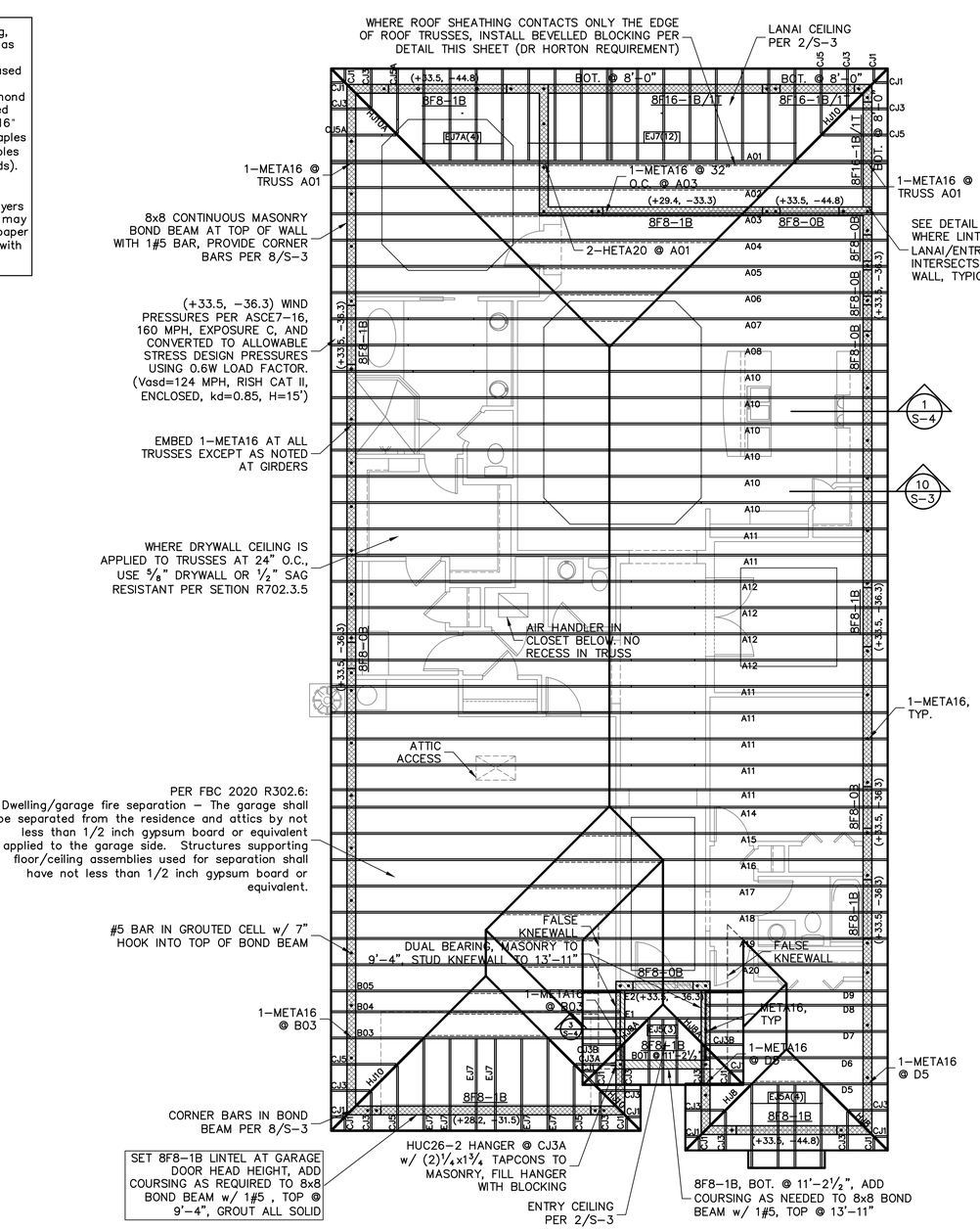
DESIGN/DRAWN	DWB/GH
CHECKED	DWB
DATE	07/13/21
SCALE	VARIES
	DR12940
SHEET	S–1

SHEET 1 OF 4

At Exterior Stud Walls and Gable Ends with Wall Sheathing, apply plaster over metal lath over water resistive barrier as follows:
Plaster R703.6.2: 3-coat 7/8" thick portland cement based plaster per ASTM C926.
Metal Lath R703.6.1: Self furring paper backed 2.5lb diamond mesh metal lath per ASTM C847, G60 galvanized, fastened per ASTM C1063 with 1-1/2" long, 11 gage nails with 7/16" head (roofing nails) at 7" oc, or 1-1/2" long, 16 gage staples at 6" oc, into the framing members (ie, the nails or staples must align with and penetrate 3/4" into the framing studs).
Water Resistive Barrier (WRB) R703.6.3: Water-resistive vapor-permeable barrier with a performance at least equivalent to 2 layers of Grade D paper. The individual layers shall be installed independently. An approved house wrap may be used for the 1st layer and metal lath with approved paper backing may be the 2nd layer (Note: ZIP wall sheathing with seam tape qualifies as the first layer).



BEVELED BLOCKING
SCALE: 3/4" = 1'-0"

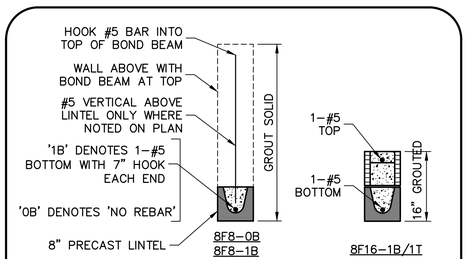


TRUSS STRAPPING TO MASONRY		
MAX TRUSS UPLIFT (LBS)	STRAP/ANCHOR Valid lengths x/x/x	FASTENERS
INSTALL META16 AT ALL TRUSSES TO 1450 lb UPLIFT. FOR HIGHER UPLIFTS, SEE NOTES ON PLAN. — 1450 (1 PLY)	(1)META16/18/20	(8) 0.148x1-1/2", EMBED 4"
1810 (1 PLY)	(1)HETA16/20	(9) 0.148x1-1/2", EMBED 4"
1875 (1 PLY)	(2)META16/18/20	(10) 0.148x1-1/2", EMBED 4"
1920 (1 PLY)	(2)HETA16/20	(10) 0.148x1-1/2", EMBED 4"
2120 (1 PLY)	(1)HHETA16/20	(10) 0.148x1-1/2", EMBED 4"
1795 (2 or 3 PLY)	(2)META16/18/20	(14) 0.162x3-1/2", EMBED 4"
2365 (2 or 3 PLY)	(2)HETA16/20	(12) 0.162x3-1/2", EMBED 4"
3965/DF/SP (2 PLY)	MGT	(22) 0.148X3" ATR, EPOXY 12"
3000/DF/SP (1 PLY 2x4)	HTT4	(18) 0.148x1-1/2", 5/8" ATR, EPOXY 12"
4455/DF/SP (1 PLY 2x6)	HTT4	(18) SD#10x1-1/2", 5/8" ATR, EPOXY 12"
4235/DF/SP (2 PLY 2x4)	HTT4	(18) 0.162x2-1/2", 5/8" ATR, EPOXY 12"
4555/DF/SP (1 PLY 2x6)	HTT5	(26) SD#10x1-1/2", 5/8" ATR, EPOXY 12"
4670/DF/SP (2 PLY 2x4)	HTT5	(26) 0.148X3", 5/8" ATR, EPOXY 12"
5445/DF/SP (2 PLY 2x4)	HTT5KT	(26) SD#10x2-1/2, 5/8" ATR, EPOXY 18"
10690/DF/SP (2 PLY)	(1)HGT-2	(16) 0.148x3", (2) 3/4" ATR, EPOXY 12"
10790/SYP (3 PLY)	(1)HGT-3	(16) 0.148x3", (2) 3/4" ATR, EPOXY 12"

NOTES:
1) 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 ℄ OF WALL.
2) ANY OF THE VALID LENGTHS SHOWN MAY BE USED IN PLACE OF THE LENGTH SPECIFIED ON PLAN.
3) CONNECTORS ARE SIMPSON STRONG TIE. ALL CONNECTORS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH SIMPSON PRINTED INSTRUCTIONS. SUBSTITUTIONS MUST BE APPROVED IN WRITING BY THE ENGINEER OF RECORD.
4) WHERE EMBEDDED STRAPS ARE MISSING, OR MIS-LOCATED, INSTALL RETROFIT STRAP PER 10/S-3 PER UPLIFT IN TRUSS ENGINEERING.
SIMPSON CATALOG C-C-2019

TRUSS STRAPPING TO STUD WALL/WOOD BEAM		
MAX TRUSS UPLIFT (LBS)	STRAP(S) Valid lengths x/x/x	FASTENERS
INSTALL AT ALL TRUSSES TO 850 lb UPLIFT. FOR HIGHER UPLIFTS, SEE NOTES ON PLAN. — 850	(1)MTS16/20/30	(14) 0.148x1-1/2" or 3" EACH STRAP
1700	(2)MTS16/20/30	
2550	(3)MTS16/20/30	
1125	(1)HTS20/24/30	(24) 0.148x1-1/2" OR (20) 0.148x3" EACH STRAP
2250	(2)HTS20/24/30	
3375	(3)HTS20/24/30	
4500	(4)HTS20/24/30	

NOTES:
1) 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.
2) ANY OF THE VALID LENGTHS SHOWN MAY BE USED IN PLACE OF THE LENGTH SPECIFIED ON PLAN.
3) 1-1/2" NAIL SHALL BE USED IN 1 PLY LUMBER, 2 PLY LUMBER IS REQUIRED FOR 3" NAILS.
4) CONNECTORS ARE SIMPSON STRONG TIE. ALL CONNECTORS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH SIMPSON PRINTED INSTRUCTIONS.
SIMPSON CATALOG C-C-2019



PRECAST LINTEL SCHEDULE
AT SWING DOORS, USE 2" RECESS STYLE LINTEL IF NEEDED FOR ROUGH OPENING.
LINTELS BEAR 4" MIN EACH END

BEARING LEGEND
BEARING @ 9'-4"
BEARING @ 13'-11"

ROOF FRAMING PLAN
SCALE: 3/16" = 1'-0"

PLAN NOTES:
1) ROOF TRUSS BEARING ELEVATION VARIES, SEE LEGEND.
2) ROOF FRAMING SHALL BE WOOD TRUSSES DESIGNED BY A DELEGATED TRUSS ENGINEER PER DESIGN CRITERIA ON SHEE S-3.
3) PROVIDE STRAPPING AT TRUSSES PER NOTES ON THIS SHEET.
4) FOR NAILING OF ROOF DECK, SEE 1 AND 2 ON S-3.
5) 8F8-1B etc, DENOTES PRECAST LINTEL ABOVE DOOR/WINDOW OPENING PER SCHEDULE THIS SHEET.
6) AT TRUSS BEARING, PROVIDE 8x8 MASONRY BOND BEAM w/ 1-#5 CONTINUOUS, SEE DETAIL 10/S-3.
7) FOR DIMENSIONS OF ROUGH OPENINGS IN MASONRY WALLS, COORDINATE WITH WINDOW/DOOR SUPPLIER.
8) PROVIDE PRESSURE TREATED BUCKS AT WINDOWS / DOORS PER DETAIL 7/S-3.

REVISIONS	BY

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CA# 8829

LICENSE — PAUL REYES — No. 88925 — STATE OF FLORIDA — PROFESSIONAL ENGINEER

This item has been digitally signed by Paul 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.

BUILDER: D·R·HORTON America's Builder

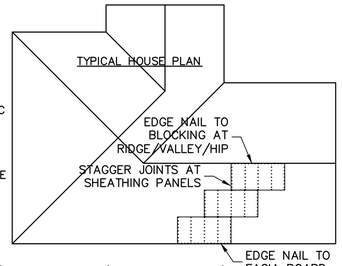
MODEL 2221 M
272 SOLIERA STREET
VENICE, FLORIDA
LOT: 819 SUBDIVISION: TOSCANA III & IV

DESIGN/DRAWN	DWB/GH
CHECKED	DWB
DATE	07/13/21
SCALE	VARIES
	DR12940
SHEET	S-2
SHEET 2 OF 4	

FOR BUILDERS FIRST SOURCE TRUSS, 160 MPH, MODEL 2221 M, EXPOSURE C, M ELEVATION, JOB # MASTER, DATE DRAWN: 08/10/20, DATE PRINTED: 01/21/21, REVISED: 01/21/21
DESIGNED IN ACCORDANCE WITH FLORIDA BUILDING CODE 7th EDITION (2020) RESIDENTIAL

TABLE R803.2.3.1 – NAIL SPACING BASED ON SPECIFIC GRAVITY OF RAFTER/TRUSS: ALL TRUSS TOP CHORDS AND FIELD ROOF FRAMING SHALL BE SOUTHERN PINE, SPECIFIC GRAVITY=0.55 (EXCEEDS SG=0.42 AND 0.49 OF TABLE R803.2.3.1).

ENSURE THAT ALL NAILS PENETRATE THE TOP CHORD OF THE TRUSS WITHOUT SPLITTING.



NAIL SPACING (TABLE R803.2.3.1) WIND SPEED / EXPOSURE

160/B, 160/C, 170/B	170/C
NAIL SPACING: 6" O.C. EDGE 6" O.C. FIELD	NAIL SPACING: 4" O.C. EDGE 4" O.C. FIELD

NAIL TYPE (SECTION R803.2.3.1) 19/32 SHEATHING

2½" x 0.131" RING SHANK OR 3" x 0.120" RING SHANK (PER ASTM F1667 RSRS–03 & 04)

1 NAILING OF ROOF SHEATHING
SCALE: NTS

SHEATHING SCHEDULE

EXTERIOR STUD WALL	FLOOR
7/16" ZIP SYSTEM WALL SHEATHING BY HUBER ENGINEERED WOODS LLC, NAILED W/ 8d COMMON WIRE @ 6" O.C. EDGE AND 6" O.C. FIELD. PROVIDE 2x4 BLOCKING AT ALL JOINTS. INSTALL SHEATHING AND SEAM TAPE IN STRICT ACCORDANCE WITH MFR. WRITTEN INSTRUCTIONS.	N/A
ROOF – PER FBCR TABLE 803.2.2	**EXTERIOR CEILING**
19/32 CLASS A.P.A. RATED SHEATHING, EXPOSURE 1, SPAN RATING 40/20. FASTEN WITH RING SHANK NAILS PER DETAIL 1/S–3 (WHEN ZIP BRAND ROOF SHEATHING IS USED, H–CLIPS ARE NOT REQUIRED)	1) 1x4 STRIPPING @ 16"OC w/ 2–8d NAILS TO EACH TRUSS, ⅝" EXTERIOR GYPBOARD CEILING, FASTEN w/8d NAILS OR 1⅝" DRYWALL SCREWS @ 6"OC EDGE & FIELD. 2) ⅜" BC PLYWOOD NAILED w/ 6d COMMON @ 6" OC EDGE & FIELD.
	SOFFIT
	ALUMINUM PERFORATED SOFFIT INSTALLED PER MANUFACTURER INSTRUCTIONS TO MEET WIND PRESSURES PER R704.

NOTE: EXTERIOR CEILINGS SPECIFIED ABOVE MEET THE DESIGN WIND PRESSURES PER R703.1.2

2

WINDOW/DOOR/SOFFIT DESIGN WIND PRESSURES

WIND PRESSURES PER ASCE7–16, 160 MPH, EXPOSURE C, AND CONVERTED TO ALLOWABLE STRESS DESIGN PRESSURES USING 0.6W LOAD FACTOR. (Vasd=124 MPH, RISK CAT II, ENCLOSED, kd=0.85, h=15')

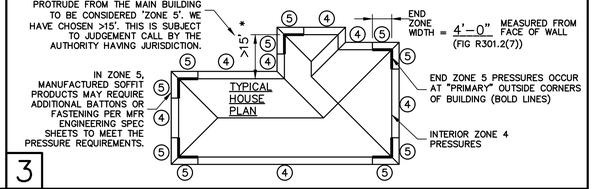
TYPE	INTERIOR ZONE 4	END ZONE 5
SOFFIT (10 SQ. FT.)	+33.5 –36.3	+33.5 –44.8
WINDOWS & DOORS (10 SQ. FT.)	+33.5 –36.3	+33.5 –44.8
8' OR 9' GARAGE DOORS	+29.4 –33.3	
16' OR 18' GARAGE DOORS	+28.2 –31.5	

(SEE PLAN FOR OTHER SPECIFIC PRESSURES)

1) TABLE MAY BE USED FOR ANY SIZE WINDOW OR DOOR IN EACH TYPE.
2) USE "INTERIOR ZONE 4" PRESSURES UNLESS WINDOW OR DOOR IS LOCATED WITHIN THE "END ZONE 5" (SEE DIAGRAM BELOW), THEN USE THE HIGHER PRESSURES UNDER THE "END ZONE 5" COLUMN.
3) ALL GLASS / GLAZING SHALL BE IMPACT RATED OR USE IMPACT RATED SHUTTERS.
4) SUBMIT PRODUCT APPROVALS TO THE BUILDING DEPARTMENT AS REQUIRED BY THE LOCAL JURISDICTION.
5) MANUFACTURED SOFFIT PRODUCTS SHALL BE INSTALLED PER MFR ENGINEERING SPEC SHEETS.

* ON IRREGULAR SHAPED BUILDINGS, THERE IS NO GUIDANCE IN THE CODE FOR HOW FAR A CORNER MUST PROTRUDE FROM THE MAIN BUILDING TO BE CONSIDERED "ZONE 5". WE HAVE CHOSEN >15'. THIS IS SUBJECT TO JUDGEMENT CALL BY THE AUTHORITY HAVING JURISDICTION.

IN ZONE 5, MANUFACTURED SOFFIT PRODUCTS MAY REQUIRE ADDITIONAL BATTONS OR FASTENING PER MFR ENGINEERING SPEC SHEETS TO MEET THE PRESSURE REQUIREMENTS.



3

DESIGN CRITERIA:

DESIGN IN ACCORDANCE WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE 7th EDITION (2020) RESIDENTIAL

1. FLOOR & ROOF UNIFORM LOADS:
   ELEVATED FLOORS: LIVE LOAD 40 PSF, DEAD LOAD 20 PSF
   ROOF: LIVE TOP CHORD 20 PSF
   LIVE BOTTOM CHORD 10 PSF (NON–CONCURRENT w/ TCLL)
   CEMENT ROOF TILE DEAD LOAD 25 PSF TOTAL
   SHINGLE/METAL ROOFING DEAD LOAD 15 PSF TOTAL
   MINIMUM DEAD LOAD FOR WIND: TC 5 PSF, BC 5 PSF
   DEFLECTION CRITERIA:
   FLOOR L/480 LIVE, L/360 TOTAL
   ROOF L/240 LIVE, L/180 TOTAL

2. WIND LOADS:
   WIND DESIGN PER, ASCE7–16
   BASIC WIND SPEED (ASCE7–16) 160 MPH
   NOMINAL WIND SPEED (Vasd TABLE R301.2.1.3) 124 MPH
   BUILDING CATEGORY II
   IMPORTANCE FACTOR 1.00
   EXPOSURE C
   MEAN ROOF HEIGHT = 15 FT
   ROOF PITCH 5/12
   ENCLOSURE CLASS. ENCLOSED
   INTERNAL PRES. COEFF. +/– 0.18
   WINDOW/DOOR DESIGN WIND PRESSURE PER TABLE R301.2(2), R301.2(3) AND R301.2(4), SEE DETAIL ON S–3.
   SOFFITS – PER R704, ALL SOFFITS & THEIR ATTACHMENTS SHALL BE CAPABLE OF RESISTING THE DESIGN PRESSURES SPECIFIED IN TABLE R301.2(2) FOR WALLS USING 10 SQ. FT.

3. REINFORCED CONCRETE:
   DESIGN AS PER ACI 318–14
   REQUIRED COMPRESSIVE STRENGTH AT 28 DAYS:
   SLAB ON GRADE $f'c$ = 2500 PSI
   3½" MINIMUM THICKNESS REINFORCED WITH 6x6 w1.4xw1.4 WWF OR FIBERMESH.
   CONVENTIONAL SHALLOW FOOTINGS $f'c$ = 2500 PSI
   BEAMS AND COLUMNS $f'c$ = 3000 PSI
   ALL OTHER CONCRETE (U.N.O.) $f'c$ = 3000 PSI
   UNLESS OTHERWISE SHOWN ON DRAWINGS, MINIMUM CONCRETE COVER FOR REINFORCING SHALL BE AS FOLLOWS:
   FOOTINGS 3"
   SLAB ON GRADE CENTERED
   BEAMS 1½"
   COLUMNS 1½"
   ALL REINFORCING STEEL SHALL BE PLACED IN ACCORDANCE WITH THE TYPICAL BENDING DIAGRAMS AND PLACING DETAILS OF ACI STANDARDS AND SPECIFICATIONS. ALL REINFORCING STEEL SHALL BE HELD SECURELY IN POSITION WITH STANDARD ACCESSORIES DURING PLACING OF CONCRETE.
   REINFORCING STEEL – ASTM A615 GRADE 40 FOR #3
   GRADE 60 FOR #4 TO #11
   WELDED WIRE FABRIC – ASTM A185
   SPLICES IN REINFORCING, SHALL BE 40 BAR DIAMETERS. NON–CONTACT LAP SPLICES MAY BE USED PROVIDED REINFORCING IS NOT SPACED MORE THAN 5" APART FOR #5 BARS.
   FORMWORK AND SHORING SHALL REMAIN IN PLACE UNTIL CONCRETE HAS REACHED AT LEAST 2/3 OF THE REQUIRED 28 DAY STRENGTH.

4. REINFORCED MASONRY:
   DESIGN PER TMS 402/602–16
   REQUIRED COMPRESSIVE STRENGTHS:
   MASONRY WALLS $f'm$ = 1500 PSI
   REINFORCING STEEL – ASTM A615 GRADE 60.
   SPLICES IN REINFORCING, SHALL BE 48 BAR DIAMETERS.
   ALL CONCRETE MASONRY UNITS SHALL BE COMPOSED OF ASTM C90, GRADE N–1 HOLLOW CONCRETE MASONRY UNITS WITH TYPE 'S' MORTAR. GROUT ALL CELLS CONTAINING VERTICAL REINFORCEMENT WITH 3000 PSI PEA ROCK CONCRETE GROUT. ALL CELLS BELOW FINISHED GRADE SHALL BE GROUTED SOLID. ALL EXTERIOR WALLS SHALL BE REINFORCED FULL HEIGHT AT DOT LOCATIONS ON PLAN.

5. DELEGATED–ENGINEERED WOOD ROOF TRUSSES:
   ALL WOOD ROOF TRUSSES SHALL BE DESIGNED BY A DELEGATED TRUSS ENGINEER PER RULE 61G15–31.003 OF THE FLORIDA ADMINISTRATIVE CODE. ALL TRUSSES SHALL HAVE TEMPORARY BRACING PER "COMMENTARY AND RECOMMENDATIONS FOR HANDLING, INSTALLING AND BRACING METAL PLATE CONNECTED WOOD TRUSSES, HIB–91." FOR OTHER BRACING REQUIREMENTS, NOTIFY ENGINEER. PROVIDE PERMANENT BRACING PER TRUSS MFR. SHOP DRAWINGS. IF PERMANENT BRACING IS NOT SPECIFIED, CONTACT ENGINEER.

6. FOUNDATION:
   CONVENTIONAL SHALLOW CONCRETE FOOTINGS
   SOIL BEARING CAPACITY 2000 PSF
   THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE SOIL CONDITIONS FOR THE INTENDED STRUCTURE AND ASSUMED SOIL BEARING CAPACITY. IT IS RECOMMENDED THAT A GEOTECHNICAL FIRM BE HIRED TO PERFORM A SITE EVALUATION.

7. DIMENSIONS: VERIFY ALL DIMENSIONS WITH HOUSE PLANS. SEE HOUSE PLANS, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR EMBEDS, OPENINGS, SLEEVES, ETC. WHICH ARE NOT SHOWN ON STRUCTURAL DRAWINGS.

8. MEANS AND METHODS: THE STRUCTURAL ENGINEER SHALL NOT HAVE CONTROL OR BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES, OR SEQUENCES TEMPORARY BRACING, SHORING, GUYING OR OTHER MEANS TO SUPPORT STRUCTURAL ELEMENTS IN PLACE DURING CONSTRUCTION. FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, OR ANY OTHER PERSONS PERFORMING THE WORK OR FOR THE FAILURE OF ANY OF THEM TO CONSTRUCT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

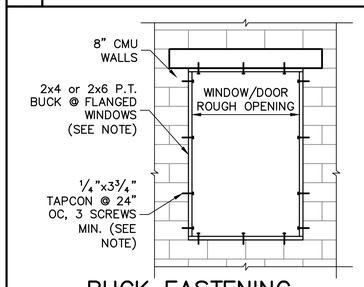
9. SHOP DRAWINGS: SHOP DRAWINGS SHALL BE PREPARED AND SUBMITTED TO THE ENGINEER FOR REVIEW FOR ALL STRUCTURAL ELEMENTS UTILIZING PREFABRICATED COMPONENTS. ONE SET OF SIGNED & SEALED TRUSS ENGINEERING SHALL BE DELIVERED TO THE ENGINEER OF RECORD FOR THE STRUCTURE PER FLORIDA ADMINISTRATIVE CODE 61G15–30.005 AND 61G15–31.003.

RETROFIT STRAPS TO CONCRETE/MASONRY

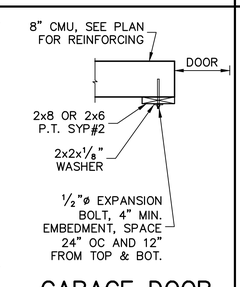
TRUSS UPLIFT (LBS) @ 24" OC	CONNECTOR	
TO 840	1–MTSM16 or 20	7–10dx1½", 4–¼x2¼ TITEN
TO 1045	1–HTSM16 or 20	8–10dx1½", 4–¼x2¼ TITEN
TO 2090	2–HTSM16 or 20	8–10dx1½", 4–¼x2¼ TITEN
TO 4300	2–LGT2	16–16d, 7–¼"x2¼" TITEN
TO 3480	HTT16	18–16d, ⅝"ø ALLTHREAD, DRILL & EPOXY 10" EMBED w/ SIMPSON SET.
TO 10530	HGT–2/3	TWO ¾"ø ALTHREAD, DRILL & EPOXY 12" EMBED WITH SIMPSON SET.

NOTES:
1) WHERE EMBEDDED STRAP IS MISSING OR MIS–LOCATED, 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.
2) CONNECTORS ARE SIMPSON STRONG TIE. ALL CONNECTORS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH SIMPSON PRINTED INSTRUCTIONS.

4 RETROFIT UPLIFT CONNECTOR SCHEDULE



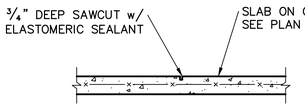
BUCK FASTENING



GARAGE DOOR

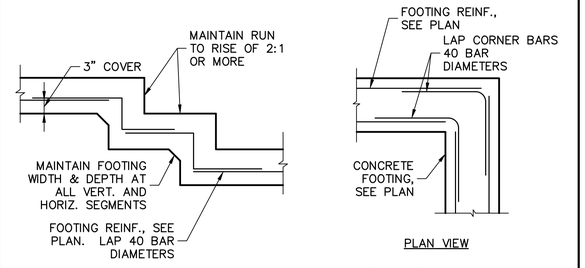
NOTE: THIS BUCK FASTENING DETAIL IS INTENDED FOR FLANGED WINDOW/DOOR PRODUCTS THAT FASTEN THRU THE FLANGE WITH WOOD SCREWS TO THE BUCK. FOR WINDOW/DOOR PRODUCTS THAT DO NOT HAVE A FLANGE AND FASTEN INSTEAD OUTWARD THRU THE FRAME, USE MASONRY SCREWS PER MFR. THAT ARE LONG ENOUGH TO PENETRATE 2–1/4" INTO THE MASONRY. IN THIS CASE, THE BUCK MATERIAL IS SIMPLY A SPACER AND MAY BE 1x4 OR 1x6 OR OMITTED ENTIRELY AND THE SPACER MAY BE TACKED IN PLACE WITH MASONRY NAILS OR PINS.

7



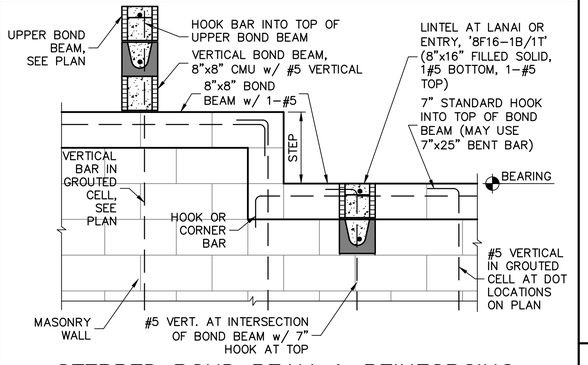
NOTES:
1) PROVIDE SAWCUTS TO CREATE APPROXIMATE 20' X 20' MAXIMUM SQUARES.
2) SAWCUT CONCRETE SLAB WITHIN 4 TO 12 HOURS OF CONCRETE PLACEMENT.

5 SLAB SAWCUT DETAIL
SCALE: NTS

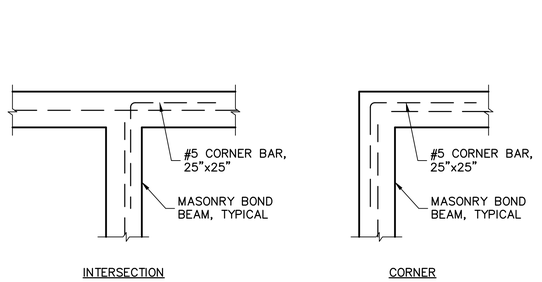


6 STEP FOOTING
SCALE: NTS

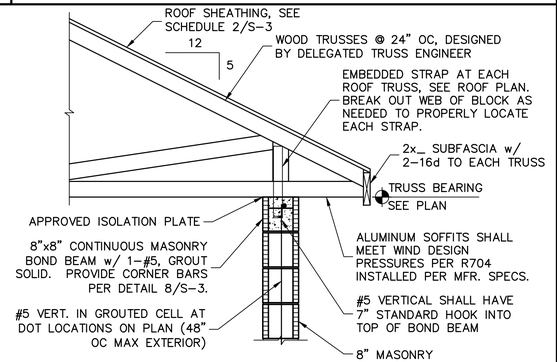
FOOTING CORNER BARS
SCALE: NTS



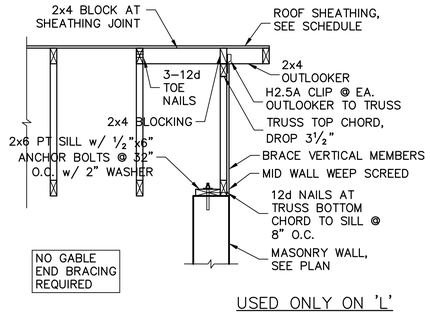
9 STEPPED BOND BEAM & REINFORCING
SCALE: 3/4" = 1'–0"



8 CORNER BAR DETAIL IN BOND BEAMS
SCALE: 3/4" = 1'–0"



10 TRUSS STRAP TO BOND BEAM
SCALE: 3/4" = 1'–0"



11 OUTLOOKER DETAIL AT DROP GABLE
SCALE: N.T.S.

FBC R703.7 EXTERIOR PLASTER
ASTM C926 AND ASTM C1063

THE CODE SECTIONS REFERENCED BELOW ARE FOR SUMMARY PURPOSES. SEE THE FLORIDA BUILDING CODE AND THE ASTM STANDARDS FOR FULL DESCRIPTIONS AND REQUIREMENTS.

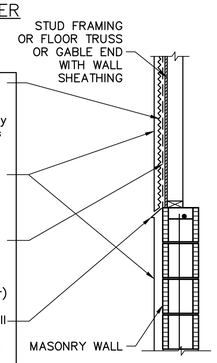
R703.7.1 Lath: Where required by the wall framing type, install metal lath per ASTM C1063 or non metallic lath per ASTM C1787. Use self furring lath as required by the ASTM spec. Use paper backed lath as required per Water Resistive Barrier specs.

R703.7.2 Plaster: Install portland cement based plaster and number of coats per ASTM C926 and thickness per Table R702.1(1).

R703.7.3 Water Resistive Barriers: Install water resistive barriers per R703.2 and water resistive vapor–permeable barrier over stud walls. (Note: ZIP wall sheathing with seam tape qualifies as the first layer)

R703.7.2.1 Weep Screed: Weep screed shall be installed at the bottom edge of all exterior wood stud framed walls (including gable end trusses) receiving lath and plaster.

Note: Exterior Stud Walls includes Gable End Trusses or Floor Trusses with Wall Sheathing.



EXTERIOR WALL WITH PLASTER
THICKNESSES ARE EXAGGERATED FOR DRAWING PURPOSES

REVISIONS	BY

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RAUL REYES LICENSE No. 88925 STATE OF FLORIDA PROFESSIONAL ENGINEER

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.

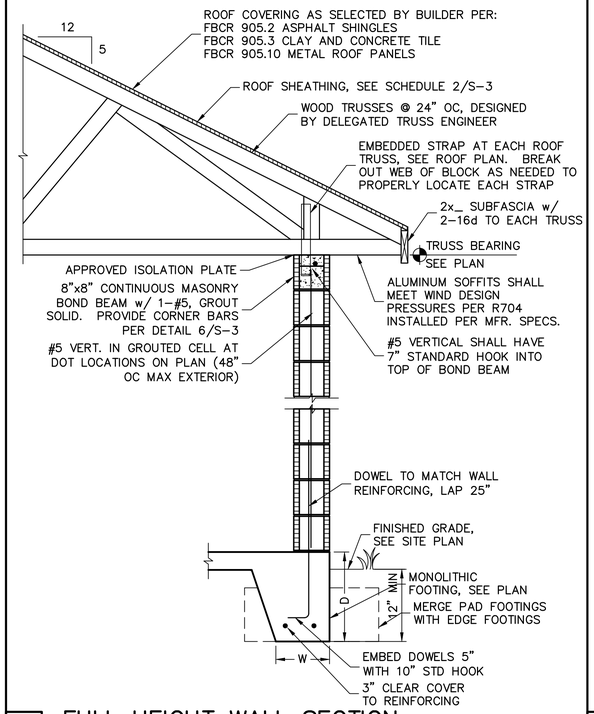
BUILDER: D·R·HORTON America's Builder

MODEL 2221 M
272 SOLIERA STREET
VENICE, FLORIDA
LOT: 819 SUBDIVISION: TOSCANA III & IV

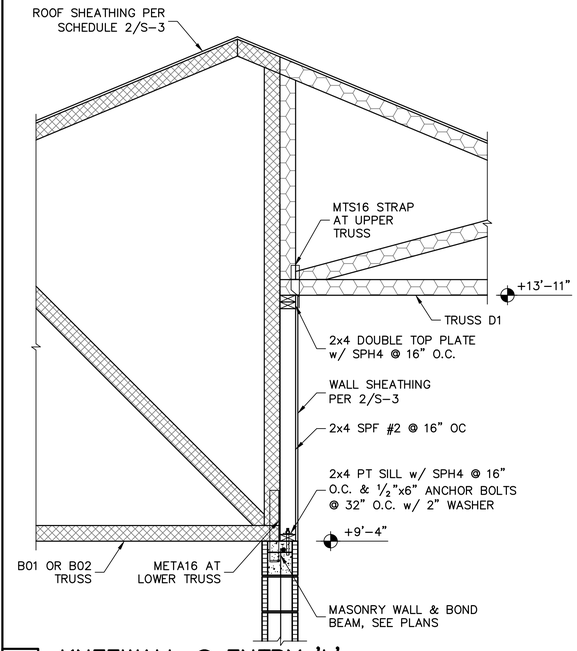
DESIGN/DRAWN	DWB/GH
CHECKED	DWB
DATE	07/13/21
SCALE	VARIES
	DR12940
SHEET	S–3

SHEET 3 OF 4

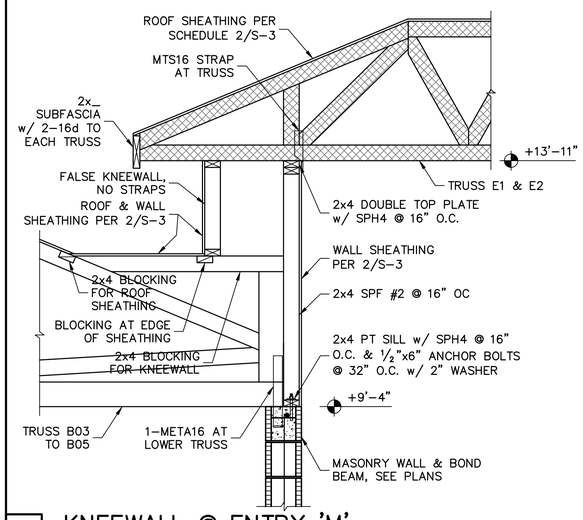
FOR BUILDERS FIRST SOURCE TRUSS, 160 MPH, MODEL 2221 M, EXPOSURE C, M ELEVATION, JOB # MASTER, DATE DRAWN: 08/10/20, DATE PRINTED: 01/21/21, REVISED: 01/21/21
DESIGNED IN ACCORDANCE WITH FLORIDA BUILDING CODE 7th EDITION (2020) RESIDENTIAL



1 FULL HEIGHT WALL SECTION
SCALE: 3/4" = 1'-0"



2 KNEEWALL @ ENTRY 'L'
SCALE: 3/4" = 1'-0"



3 KNEEWALL @ ENTRY 'M'
SCALE: 3/4" = 1'-0"

REVISIONS	BY

STRUCTURAL ENGINEERING:
STRUCTURAL SYSTEMS OF NORTH FLORIDA
1634 S.E. 47th STREET, SUITE #3
CAPE CORAL, FL 33904
(239) 549-4554
CA# 8829

PAUL REYES LICENSE No. 88925 STATE OF FLORIDA PROFESSIONAL ENGINEER

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BUILDER:
D·R HORTON America's Builder

MODEL 2221 M
272 SOLIERA STREET
VENICE, FLORIDA
LOT: 819 SUBDIVISION: TOSCANA III & IV

DESIGN/DRAWN	DWB/GH
CHECKED	DWB
DATE	07/13/21
SCALE	VARIES
	DR12940
SHEET	S-4

SHEET 4 OF 4

FOR BUILDERS FIRST SOURCE TRUSS, 160 MPH, MODEL 2221 M, EXPOSURE C, M ELEVATION, JOB # MASTER, DATE DRAWN: 08/10/20, DATE PRINTED: 01/21/21, REVISED: 01/21/21
DESIGNED IN ACCORDANCE WITH FLORIDA BUILDING CODE 7th EDITION (2020) RESIDENTIAL

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

RE: 2221_M_160_C_2020 -

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

Site Information:

Customer Info: DR Horton Project Name: 2221 M 160 C 2020 Model: 2221 M
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):

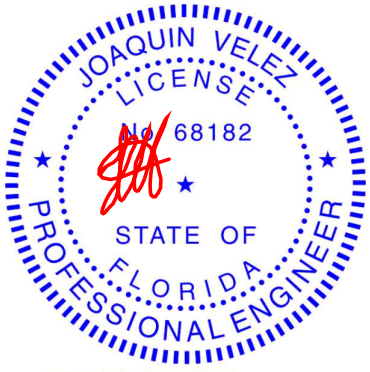
Design Code: FBC2020/TPI2014 Design Program: MiTek 20/20 8.4
Wind Code: N/A Wind Speed: 160 mph
Roof Load: 50.0 psf Floor Load: N/A psf

This package includes 42 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	T22667267	A01	2/1/21	23	T22667289	CJ3	2/1/21
2	T22667268	A02	2/1/21	24	T22667290	CJ3A	2/1/21
3	T22667269	A03	2/1/21	25	T22667291	CJ3B	2/1/21
4	T22667270	A04	2/1/21	26	T22667292	CJ5	2/1/21
5	T22667271	A05	2/1/21	27	T22667293	CJ5A	2/1/21
6	T22667272	A06	2/1/21	28	T22667294	D5	2/1/21
7	T22667273	A07	2/1/21	29	T22667295	D6	2/1/21
8	T22667274	A08	2/1/21	30	T22667296	D7	2/1/21
9	T22667275	A10	2/1/21	31	T22667297	D8	2/1/21
10	T22667276	A11	2/1/21	32	T22667298	D9	2/1/21
11	T22667277	A12	2/1/21	33	T22667299	E1	2/1/21
12	T22667278	A14	2/1/21	34	T22667300	E2	2/1/21
13	T22667279	A15	2/1/21	35	T22667301	EJ5	2/1/21
14	T22667280	A16	2/1/21	36	T22667302	EJ5A	2/1/21
15	T22667281	A17	2/1/21	37	T22667303	EJ7	2/1/21
16	T22667282	A18	2/1/21	38	T22667304	EJ7A	2/1/21
17	T22667283	A19	2/1/21	39	T22667305	HJ8	2/1/21
18	T22667284	A20	2/1/21	40	T22667306	HJ8A	2/1/21
19	T22667285	B03	2/1/21	41	T22667307	HJ10	2/1/21
20	T22667286	B04	2/1/21	42	T22667308	HJ10A	2/1/21
21	T22667287	B05	2/1/21				
22	T22667288	CJ1	2/1/21				

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: Velez, Joaquin
My license renewal date for the state of Florida is February 28, 2023.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: February 1,2021

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.

Job	Truss	Truss Type	Qty	Ply	T22667267
2221_M_160_C_2020	A01	Hip Girder	1	2	Job Reference (optional)

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950, 8.430 s Nov 30 2020 MiTek Industries, Inc. Sun Jan 31 14:44:12 2021 Page 1

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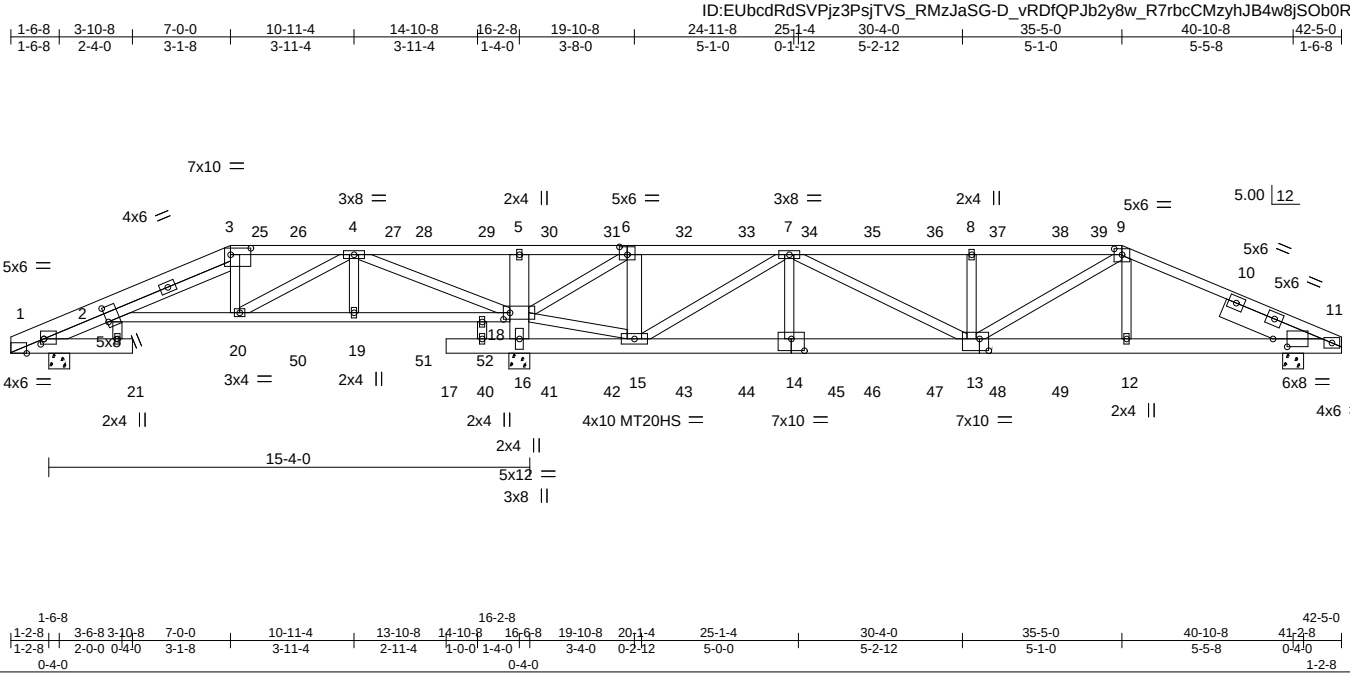

Plate Offsets (X,Y)-- [1:0-1-4,0-2-1], [1:0-6-10,Edge], [2:0-5-12,0-0-7], [3:0-7-12,0-2-8], [6:0-3-0,0-3-0], [9:0-3-0,0-2-4], [11:0-5-7,0-3-0], [13:0-3-8,0-4-8], [14:0-5-0,0-4-8], [18:0-2-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.73	Vert(LL)	0.15	13-14	>999	240	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.32	Vert(CT)	-0.18	21	>999	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.48	Horz(CT)	-0.06	1	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 537 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
1-3: 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
22-23: 2x4 SP No.3, 2-18: 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
6-15: 2x6 SP No.2, 5-16: 2x8 SP 2400F 2.0E
SLIDER Right 2x8 SP 2400F 2.0E - 3-3-10

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 15-16,19-20,18-19.

REACTIONS. (size) 1=0-8-0, 16=0-8-0, 11=0-8-0
Max Horz 11=97(LC 7)
Max Uplift 1=-104(LC 8), 16=-2263(LC 8), 11=-1152(LC 8)
Max Grav 1=552(LC 17), 16=4462(LC 1), 11=1758(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 9-11=-3551/2281, 3-4=-674/140, 4-5=-1531/3366, 5-6=-1470/3210, 6-7=-408/707, 7-8=-3829/2627, 8-9=-3829/2627, 2-3=-730/141
BOT CHORD 15-16=-1574/768, 14-15=-1970/2905, 13-14=-1972/2910, 12-13=-1972/3137, 11-12=-1977/3149, 2-20=-67/702, 19-20=-343/593, 18-19=-343/593
WEBS 9-12=-111/412, 6-15=-751/1352, 15-18=-1185/1831, 6-18=-3864/2329, 4-18=-3292/1284, 4-19=0/307, 4-20=-483/1157, 3-20=-408/305, 7-15=-2981/1757, 9-13=-634/882, 7-14=-109/422, 8-13=-750/541, 7-13=-605/1086, 16-18=-4559/2415, 5-18=-624/388

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc, 2x8 - 2 rows staggered at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * 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.

Continued on page 2

JOAQUIN VELEZ LICENSE No 68182 STATE OF FLORIDA PROFESSIONAL ENGINEER

Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: February 1,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

NOTES-

10) Solid blocking is required on both sides of the truss at joint(s), 1.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 104 lb uplift at joint 1, 2263 lb uplift at joint 16 and 1152 lb uplift at joint 11.
12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 257 lb down and 467 lb up at 35-5-0, 107 lb down and 187 lb up at 33-4-4, 107 lb down and 187 lb up at 31-4-4, 107 lb down and 187 lb up at 29-4-4, 107 lb down and 187 lb up at 27-4-4, 107 lb down and 187 lb up at 25-4-4, 107 lb down and 187 lb up at 23-4-4, 107 lb down and 187 lb up at 21-4-4, 107 lb down and 187 lb up at 21-0-12, 107 lb down and 187 lb up at 19-0-12, 107 lb down and 187 lb up at 17-0-12, 107 lb down and 187 lb up at 15-0-12, 72 lb down and 152 lb up at 13-0-12, 72 lb down and 152 lb up at 11-0-12, and 72 lb down and 152 lb up at 9-0-12, and 154 lb down and 339 lb up at 7-0-0 on top chord, and 141 lb down at 35-5-0, 60 lb down at 33-4-4, 60 lb down at 31-4-4, 60 lb down at 29-4-4, 60 lb down at 27-4-4, 60 lb down at 25-4-4, 60 lb down at 23-4-4, 60 lb down at 21-4-4, 60 lb down at 21-0-12, 60 lb down at 19-0-12, 60 lb down at 17-0-12, 60 lb down at 15-0-4, 45 lb down at 13-0-12, 45 lb down at 11-0-12, and 45 lb down at 9-0-12, and 109 lb down and 1 lb up at 7-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 9-11=-80, 3-9=-80, 1-3=-80, 11-17=-20, 2-18=-20, 1-21=-20
   Concentrated Loads (lb)
   Vert: 3=-154(B) 12=-87(B) 19=-35(B) 20=-69(B) 4=-72(B) 9=-257(B) 26=-72(B) 28=-72(B) 29=-107(B) 30=-107(B) 31=-107(B) 32=-214(B) 33=-107(B) 34=-107(B) 35=-107(B) 36=-107(B) 37=-107(B) 38=-107(B) 40=-41(B) 41=-41(B) 42=-41(B) 43=-81(B) 44=-41(B) 45=-41(B) 46=-41(B) 47=-41(B) 48=-41(B) 49=-41(B) 50=-35(B) 51=-35(B)

Job	Truss	Truss Type	Qty	Ply	
2221_M_160_C_2020	A02	HIP	1	1	T22667268
					Job Reference (optional)

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

8.430 s Nov 30 2020 MiTek Industries, Inc. Mon Feb 1 10:51:56 2021 Page 1
ID:EUbcdRdSVPjz3PsjTVS_RMzJaSG-mQYTUmI9huRNj3sHFz7C675IjpKWs50deTUQinzpY7X

1-6-8	3-10-8	9-0-0	12-7-3	14-10-8	16-2-8	19-10-8	26-9-2	33-5-0	40-10-8	42-5-0
1-6-8	2-4-0	5-1-8	3-7-3	2-3-5	1-4-0	3-8-0	6-10-10	6-7-14	7-5-8	1-6-8

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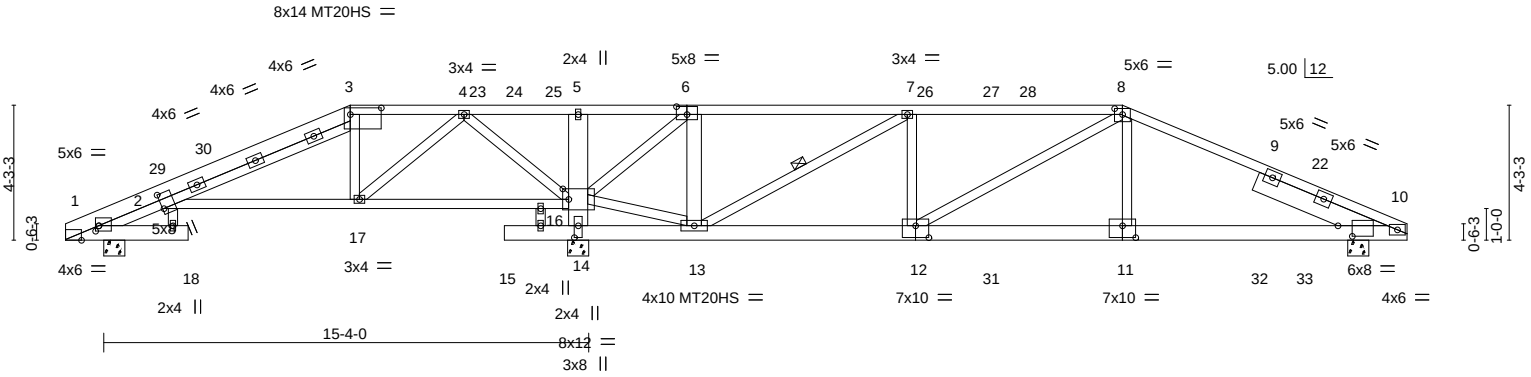


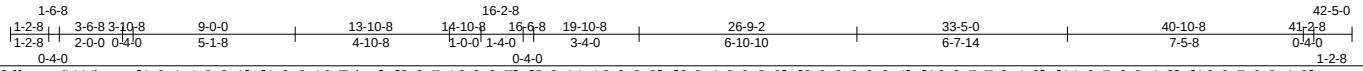


Plate Offsets (X,Y)-- [1:0-1-4,0-2-1], [1:0-6-10,Edge], [2:0-5-12,0-0-7], [3:0-11-12,0-2-8], [6:0-4-0,0-3-0], [8:0-3-0,0-2-4], [10:0-5-7,0-4-0], [11:0-5-0,0-4-8], [12:0-5-0,0-4-8], [14:0-4-8,0-1-8], [16:0-2-4,0-4-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.87	Vert(LL)	0.15	10-11	>999	240	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.48	Vert(CT)	-0.33	18	>583	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.79	Horz(CT)	-0.08	1	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 276 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except*
	8-10: 2x4 SP M 31, 1-3: 2x6 SP No.2
BOT CHORD	2x6 SP No.2 *Except*
	19-20: 2x4 SP No.3, 2-16: 2x4 SP No.2
WEBS	2x4 SP No.3 *Except*
	6-13: 2x6 SP No.2, 5-14: 2x8 SP 2400F 2.0E
SLIDER	Right 2x8 SP 2400F 2.0E -l 4-4-10

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-1-7 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 7-13

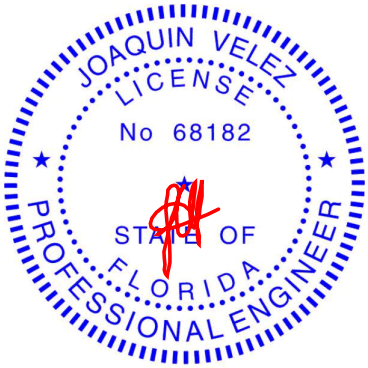
REACTIONS. (size) 1=0-8-0, 14=0-8-0, 10=0-8-0
Max Horz 10=123(LC 11)
Max Uplift 1=-75(LC 12), 14=-1335(LC 12), 10=-791(LC 12)
Max Grav 1=449(LC 17), 14=2765(LC 1), 10=1103(LC 22)

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

TOP CHORD	8-9=-1720/1457, 9-22=-1760/1435, 10-22=-1887/1431, 4-24=-845/1962, 24-25=-845/1962, 5-25=-845/1962, 5-6=-839/1912, 6-7=-23/554, 7-26=-1422/1469, 26-27=-1422/1469, 27-28=-1422/1469, 8-28=-1423/1469
BOT CHORD	13-14=-959/523, 12-13=-1231/1417, 12-31=-1200/1586, 11-31=-1200/1586, 11-32=-1200/1586, 32-33=-1200/1586, 10-33=-1200/1586, 2-17=-21/307, 16-17=-859/612
WEBS	8-11=-255/355, 8-12=-292/79, 7-12=-273/378, 7-13=-1704/1190, 6-13=-722/814, 13-16=-694/803, 6-16=-2038/1562, 3-17=-531/333, 14-16=-2853/1727, 4-17=-384/1074, 4-16=-1483/643

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=45ft; L=24ft; eave=5ft; 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 9-0-0, Exterior(2R) 9-0-0 to 13-2-15, Interior(1) 13-2-15 to 33-5-0, Exterior(2R) 33-5-0 to 37-7-15, Interior(1) 37-7-15 to 42-1-0 zone; cantilever left and right exposed ; porch 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) 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.
7) * 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) Solid blocking is required on both sides of the truss at joint(s), 1.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 75 lb uplift at joint 1, 1335 lb uplift at joint 14 and 791 lb uplift at joint 10.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
February 1,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
2221_M_160_C_2020	A03	Hip	1	1	T22667269
					Job Reference (optional)

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950, 8.430 s Nov 30 2020 MiTek Industries, Inc. Sun Jan 31 14:44:15 2021 Page 1
ID:EUbcdRdSVPjz3PsjTVS_RMzJaSG-dZbZshSIcWQX?Ni?o_8Jq_bVSX1U6T8u4ZE5lazpoxU

4-10-15	11-0-0	16-5-15	22-1-9	27-6-14	31-5-0	34-8-2	38-6-8	40-10-8	42-5-0
4-10-15	6-1-1	5-5-15	5-7-10	5-5-5	3-10-2	3-3-3	3-10-6	2-4-0	1-6-8

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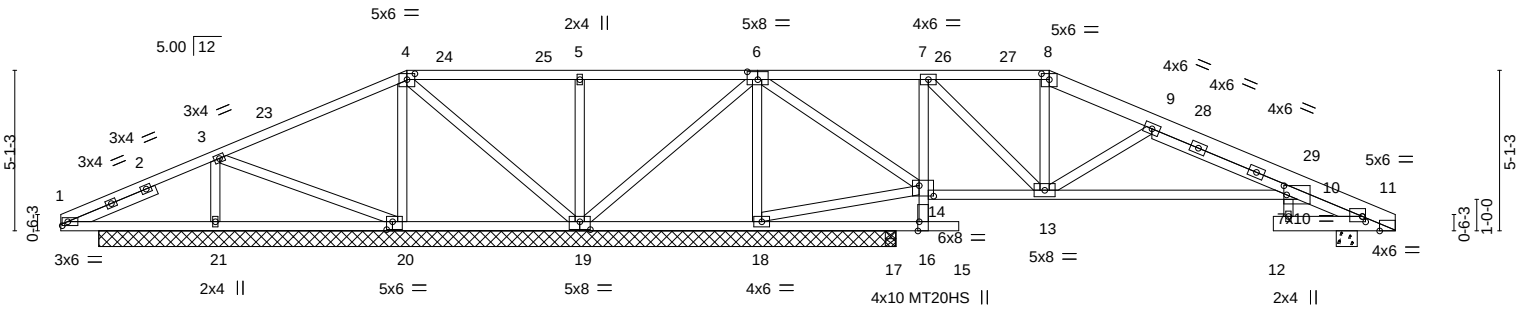


1-2-8	4-10-15	11-0-0	16-5-15	22-1-9	26-6-8	27-6-14	28-6-8	31-5-0	38-6-8	38-10-8	40-10-8	41-2-8	42-5-0
1-2-8	3-8-7	6-1-1	5-5-15	5-7-10	4-4-15	1-0-6	0-11-10	2-10-8	7-1-8	0-4-0	2-0-0	0-4-0	1-2-8

Plate Offsets (X,Y)-- [1:0-2-2,0-1-8], [4:0-3-0,0-2-4], [6:0-4-0,0-3-0], [8:0-3-0,0-2-4], [10:0-1-0,0-3-8], [11:0-6-10,Edge], [11:0-1-4,0-2-1], [14:0-5-8,0-4-0], [16:0-3-8,Edge], [19:0-4-0,0-3-0], [20:0-2-4,0-3-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.63	Vert(LL)	0.16	12	>999	240	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.98	Vert(CT)	-0.38	10-13	>496	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.07	11	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 256 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except*
	8-11: 2x6 SP No.2
BOT CHORD	2x4 SP No.2 P *Except*
	7-16: 2x4 SP No.3, 10-14: 2x4 SP No.2, 11-12: 2x6 SP No.2
WEBS	2x4 SP No.3
SLIDER	Left 2x4 SP No.3 -t 3-0-0

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 5-0-1 oc bracing. Except:
	2-2-0 oc bracing: 14-16

REACTIONS. All bearings 25-4-0 except (jt=length) 11=0-8-0, 17=0-4-0.
(lb) - Max Horz 21=151(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 20 except 11=-170(LC 12), 21=-210(LC 12), 19=-239(LC 12), 18=-429(LC 12), 17=-124(LC 12)
Max Grav All reactions 250 lb or less at joint(s) except 11=568(LC 22), 21=720(LC 21), 20=363(LC 21), 19=573(LC 21), 18=1622(LC 22), 17=583(LC 22)

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

TOP CHORD	1-3=-186/517, 3-4=-68/504, 4-5=-158/789, 5-6=-158/789, 6-7=-59/663, 9-10=-767/366
BOT CHORD	1-21=-389/224, 20-21=-393/226, 19-20=-401/266, 18-19=-1325/554, 17-18=-300/109, 16-17=-300/109, 14-16=-443/181, 7-14=-1132/449, 13-14=-714/350, 10-13=-247/750
WEBS	3-21=-594/327, 4-20=-281/124, 4-19=-554/256, 5-19=-479/277, 6-19=-158/732, 6-18=-1366/496, 14-18=-1045/455, 6-14=-269/798, 7-13=-319/1050, 9-13=-789/429

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=45ft; L=24ft; eave=5ft; 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 11-0-0, Exterior(2R) 11-0-0 to 15-2-15, Interior(1) 15-2-15 to 31-5-0, Exterior(2R) 31-5-0 to 35-7-15, Interior(1) 35-7-15 to 42-1-0 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) 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.
7) * 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) Lumber designated with a "P" is pressure-treated with preservatives. Plate lateral resistance values have been reduced 20% where used in this lumber. Plates should be protected from corrosion per the recommendation of the treatment company. Borate or other suitable treatment may be used if it does not corrode the plates. If ACQ, CBA, or CA-B treated lumber is used, improved corrosion protection is required, and G185 galvanized plates may be used with this design. Incising factors have not been considered for this design. Building designer to verify suitability of this product for its intended use.
9) Solid blocking is required on both sides of the truss at joint(s), 11.

Continued on page 2

JOAQUIN VELEZ LICENSE No 68182 STATE OF FLORIDA PROFESSIONAL ENGINEER

Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: February 1,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

NOTES-

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20 except (jt=lb) 11=170, 21=210, 19=239, 18=429, 17=124.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
2221_M_160_C_2020	A04	Hip	1	1	T22667270

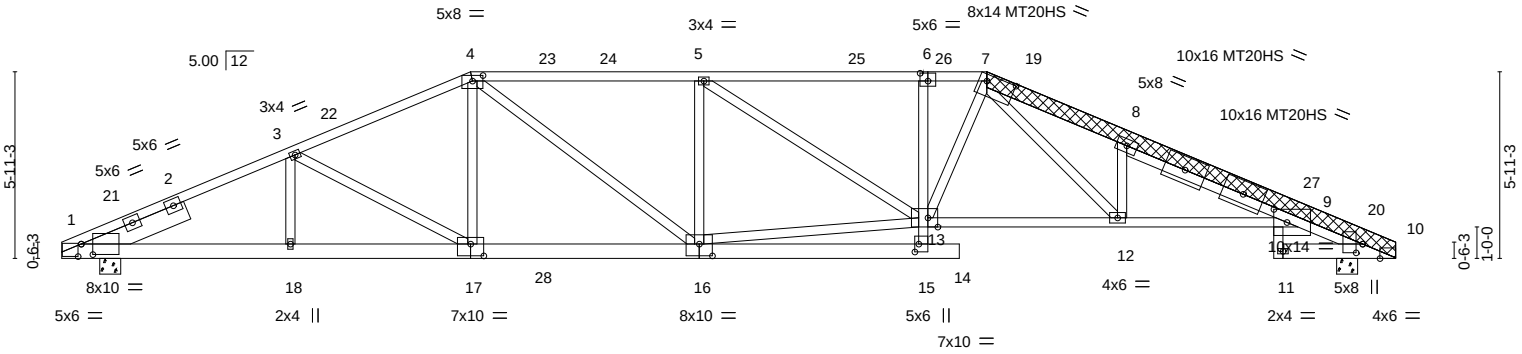
Job Reference (optional)

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950, 8.430 s Nov 30 2020 MiTek Industries, Inc. Sun Jan 31 14:44:17 2021 Page 1

ID:EUbcdRdSVPjz3PsjTVS_RMzJaSG-ZyjKGNUY77gFFhsOvOBnvPgmmKjhaHWBXtjCNSzpoxS

1-6-8	7-3-4	13-0-0	20-3-4	27-6-8	29-5-0	33-8-10	38-6-8	40-10-8	42-5-0
1-6-8	5-8-12	5-8-12	7-3-4	7-3-4	1-10-8	4-3-10	4-9-14	2-4-0	1-6-8

Scale = 1:73.3



1-6-8	7-3-4	13-0-0	20-3-4	27-6-8	33-8-10	38-6-8	40-10-8	42-5-0
1-2-8	5-8-12	5-8-12	7-3-4	7-3-4	6-2-2	4-9-14	0-4-0 2-0-0	0-4-0 1-2-8

Plate Offsets (X,Y)-- [1:0-1-3,0-4-12], [1:0-4-7,0-4-0], [4:0-4-0,0-2-2], [6:0-3-0,0-3-0], [7:0-11-0,0-2-8], [9:0-5-0,0-5-0], [10:0-6-10,Edge], [10:0-3-5,0-2-8], [13:0-3-12,Edge], [15:0-3-0,0-1-8], [16:0-5-0,0-4-8], [17:0-5-0,0-4-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.96	Vert(LL)	0.45	14	>999	240	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.99	Vert(CT)	-0.93	12-13	>538	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.42	10	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 354 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.1 *Except*
	4-6: 2x4 SP M 31, 7-10: 2x6 SP M 26, 6-7: 2x4 SP No.2
BOT CHORD	2x6 SP No.2 *Except*
	6-15: 2x4 SP No.3, 9-13: 2x4 SP M 31
WEBS	2x4 SP No.3 *Except*
	13-16: 2x4 SP No.2
OTHERS	2x6 SP M 26
LBR SCAB	7-10 2x6 SP M 26 both sides
SLIDER	Left 2x8 SP 2400F 2.0E -t 3-6-5

BRACING-

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied or 6-0-8 oc bracing. Except:
	2-2-0 oc bracing: 13-15

REACTIONS. (size) 10=0-8-0, 1=0-8-0
Max Horz 1=176(LC 11)
Max Uplift 10=-603(LC 12), 1=-613(LC 12)
Max Grav 10=2326(LC 18), 1=2307(LC 17)

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

TOP CHORD	1-3=-4717/1486, 3-4=-4064/1371, 4-5=-4329/1525, 5-6=-4670/1602, 6-7=-4707/1608,
	7-8=-6454/2128, 8-9=-6034/1854, 9-10=-798/289
BOT CHORD	1-18=-1257/4346, 17-18=-1257/4346, 16-17=-999/3767, 15-16=-128/494, 6-13=-349/245,
	12-13=-1177/4339, 9-12=-1665/5793
WEBS	3-17=-658/294, 4-17=-82/617, 4-16=-263/933, 5-16=-894/411, 13-16=-1078/3897,
	5-13=-98/479, 7-13=-276/965, 7-12=-712/2165, 8-12=-1412/622

NOTES-

1) Attached 14-3-5 scab 7 to 10, both face(s) 2x6 SP M 26 with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 9-6-12 from end at joint 7, nail 3 row(s) at 4" o.c. for 4-2-12.
2) Unbalanced roof live loads have been considered for this design.
3) Wind: ASCE 7-16; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; 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 13-0-6, Exterior(2R) 13-0-6 to 17-3-4, Interior(1) 17-3-4 to 29-5-0, Exterior(2R) 29-5-0 to 33-8-10, Interior(1) 33-8-10 to 42-1-0 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
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * 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.
9) Solid blocking is required on both sides of the truss at joint(s), 10.

Continued on page 2

JOAQUIN VELEZ LICENSE No 68182 STATE OF FLORIDA PROFESSIONAL ENGINEER

Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: February 1,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

NOTES-

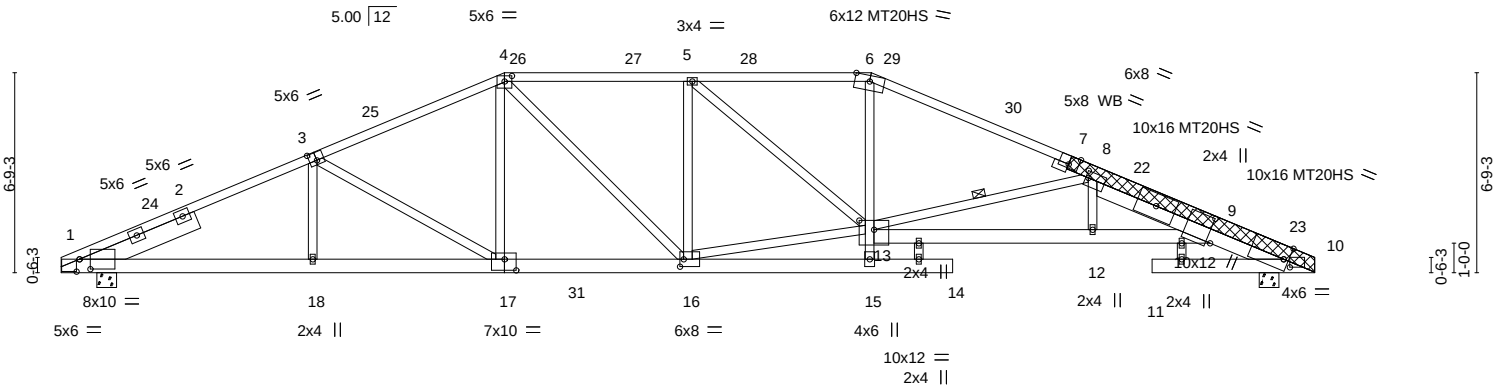
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=603, 1=613.

Job	Truss	Truss Type	Qty	Ply	
2221_M_160_C_2020	A05	Hip	1	1	T22667271
					Job Reference (optional)

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950, 8.430 s Nov 30 2020 MiTek Industries, Inc. Sun Jan 31 14:44:18 2021 Page 1
ID:EUbcdRdSVPjz3PsjTVS_RMzJaSG-18GiUiUAuRo6srRaT6i0SdCwuk3RJmuKmWTlvvzpoxR

1-6-8	8-6-2	15-0-0	21-2-8	27-5-0	34-2-13	34-10-13	40-10-8	42-5-0
1-6-8	6-11-10	6-5-14	6-2-8	6-2-8	6-9-13	0-8-0	5-11-11	1-6-8

Scale = 1:78.0



1-6-8	8-6-2	15-0-0	21-2-8	27-5-0	30-2-0	34-2-13	34-10-13	36-11-0	40-10-8	42-5-0
1-2-8	6-11-10	6-5-14	6-2-8	6-2-8	2-9-0	4-0-13	0-8-0	2-0-3	2-11-8	0-4-0
0-4-0								1-0-0		1-2-8

Plate Offsets (X,Y)-- [1:0-1-3,0-5-0], [1:0-4-7,0-4-0], [3:0-3-0,0-3-4], [4:0-3-0,0-2-4], [7:0-4-0,Edge], [8:0-1-0,0-2-12], [9:0-10-0,0-1-14], [10:0-2-8,0-3-4], [10:0-2-0,Edge], [13:0-6-0,0-3-12], [16:0-1-8,0-3-0], [17:0-4-12,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	1.00	Vert(LL)	-0.58	11	>860	240	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.96	Vert(CT)	-1.35	11	>371	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.89	Horz(CT)	0.36	10	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 347 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP M 31 *Except*
	4-6,1-3: 2x4 SP No.2, 7-10,8-10: 2x6 SP M 26
BOT CHORD	2x6 SP No.2 *Except*
	6-15: 2x4 SP No.3, 9-13: 2x6 SP M 26
WEBS	2x4 SP No.3 *Except*
	13-16: 2x4 SP No.2
OTHERS	2x6 SP M 26 *Except*
	7-7: 2x4 SP No.3
LBR SCAB	7-10 2x6 SP M 26 both sides
SLIDER	Left 2x8 SP 2400F 2.0E -t 4-2-6

BRACING-

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied or 6-8-7 oc bracing. Except:
	10-0-0 oc bracing: 13-15
WEBS	1 Row at midpt 8-13

REACTIONS. (size) 10=0-8-0, 1=0-8-0
Max Horz 1=-202(LC 10)
Max Uplift 10=-572(LC 12), 1=-605(LC 12)
Max Grav 10=2416(LC 18), 1=2329(LC 17)

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

TOP CHORD	1-3=-4712/1452, 3-4=-3866/1298, 4-5=-3837/1354, 5-6=-4162/1374, 6-8=-4627/1424, 8-9=-6715/1973, 9-10=-811/290
BOT CHORD	1-18=-1211/4356, 17-18=-1213/4350, 16-17=-891/3580, 15-16=-136/341, 13-15=0/271, 6-13=-261/1323, 12-13=-1839/6595, 9-12=-1842/6599
WEBS	3-18=0/290, 3-17=-890/372, 4-17=-122/722, 4-16=-147/624, 5-16=-847/333, 13-16=-863/3565, 5-13=-27/516, 8-13=-2579/865

NOTES-

1) Attached 9-1-1 scab 7 to 10, both face(s) 2x6 SP M 26 with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 4-5-5 from end at joint 7, nail 2 row(s) at 7" o.c. for 2-0-0; starting at 6-8-7 from end at joint 7, nail 3 row(s) at 4" o.c. for 2-0-0.
2) Unbalanced roof live loads have been considered for this design.
3) Wind: ASCE 7-16; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; 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 15-0-0, Exterior(2R) 15-0-0 to 19-2-15, Interior(1) 19-2-15 to 27-4-10, Exterior(2R) 27-4-10 to 31-7-9, Interior(1) 31-7-9 to 42-1-0 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
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * 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.
9) Solid blocking is required on both sides of the truss at joint(s), 10.

Continued on page 2

JOAQUIN VELEZ LICENSE No 68182 STATE OF FLORIDA PROFESSIONAL ENGINEER

Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: February 1,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

NOTES-

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=572, 1=605.

Job	Truss	Truss Type	Qty	Ply	
2221_M_160_C_2020	A06	HIP	1	1	T22667272

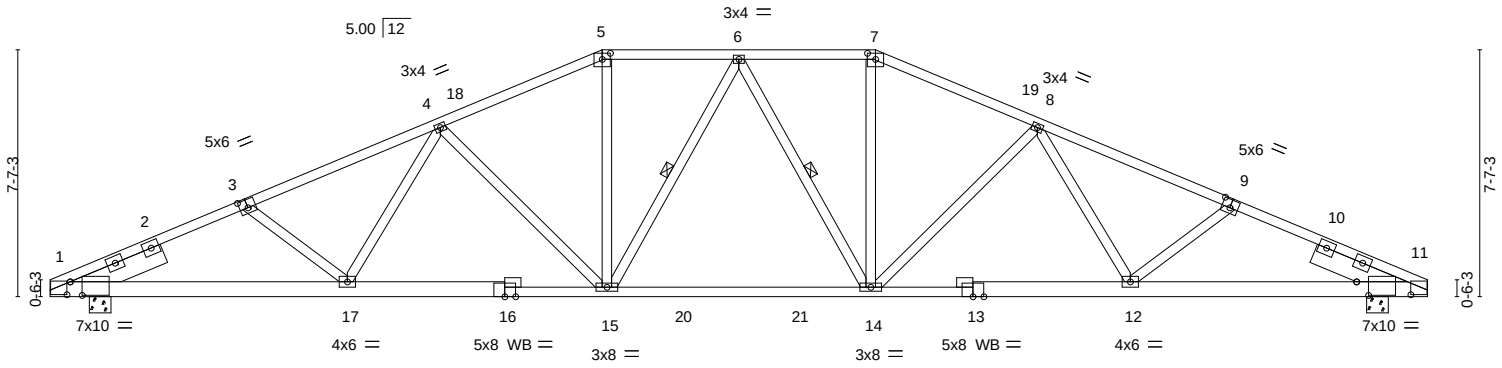
Job Reference (optional)

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950, 8.430 s Nov 30 2020 MiTek Industries, Inc. Sun Jan 31 14:44:20 2021 Page 1

ID:EUbcdRdSVPjz3PsjTVS_RMzJaSG-_XOSvOWRQ22q68bzbXkUX2IIGYndnfzdDqysznzpoxP

1-6-8	6-1-2	12-0-3	17-0-0	21-2-8	25-5-0	30-4-13	36-3-14	40-10-8	42-5-0
1-6-8	4-6-10	5-11-1	4-11-13	4-2-8	4-2-8	4-11-13	5-11-1	4-6-10	1-6-8

Scale = 1:70.9



1-6-8	9-1-13	17-0-0	25-5-0	33-3-2	40-10-8	42-5-0
1-2-8	7-7-6	7-10-3	8-5-0	7-10-3	7-7-5	41-2-8
1-2-8						0-4-0
0-4-0						1-2-8

Plate Offsets (X,Y)-- [1:0-1-3,0-4-12], [1:0-4-7,0-5-0], [3:0-3-0,0-3-0], [5:0-3-0,0-2-4], [7:0-3-0,0-2-4], [9:0-3-0,0-3-0], [11:0-4-7,0-5-0], [11:1-8-1,0-4-12]

LOADING (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)	-0.34	14-15	>999	240	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.85	Vert(CT)	-0.71	14-15	>705	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.18	11	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 268 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2 *Except*
	13-16: 2x4 SP No.1
WEBS	2x4 SP No.3
OTHERS	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

BRACING-

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied or 6-0-9 oc bracing.
WEBS	1 Row at midpt 6-15, 6-14

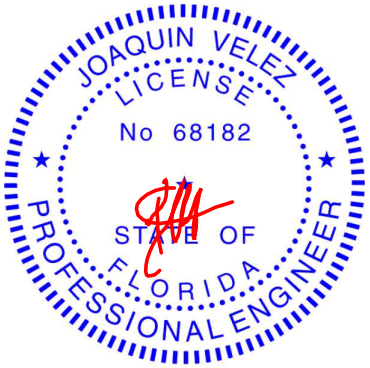
REACTIONS. (size) 1=0-8-0, 11=0-8-0
Max Horz 1=229(LC 11)
Max Uplift 1=-618(LC 12), 11=-618(LC 12)
Max Grav 1=2292(LC 17), 11=2292(LC 18)

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

TOP CHORD	1-3=-4680/1545, 3-4=-4379/1448, 4-5=-3465/1271, 5-6=-3146/1228, 6-7=-3146/1228, 7-8=-3465/1271, 8-9=-4380/1448, 9-11=-4681/1545
BOT CHORD	1-17=-1308/4346, 15-17=-1082/3834, 14-15=-864/3257, 12-14=-1079/3683, 11-12=-1305/4176
WEBS	3-17=-323/274, 4-17=-78/574, 4-15=-896/397, 5-15=-285/1017, 6-15=-363/134, 6-14=-363/134, 7-14=-285/1017, 8-14=-895/397, 8-12=-78/573, 9-12=-323/274

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=45ft; L=24ft; eave=5ft; 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 17-0-0, Exterior(2R) 17-0-0 to 21-2-8, Interior(1) 21-2-8 to 25-5-0, Exterior(2R) 25-5-0 to 29-7-15, Interior(1) 29-7-15 to 42-1-0 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) All plates are 5x6 MT20 unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * 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.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=618, 11=618.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
February 1,2021

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Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
2221_M_160_C_2020	A07	Hip	1	1	T22667273

Job Reference (optional)

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950, 8.430 s Nov 30 2020 MiTek Industries, Inc. Sun Jan 31 14:44:21 2021 Page 1

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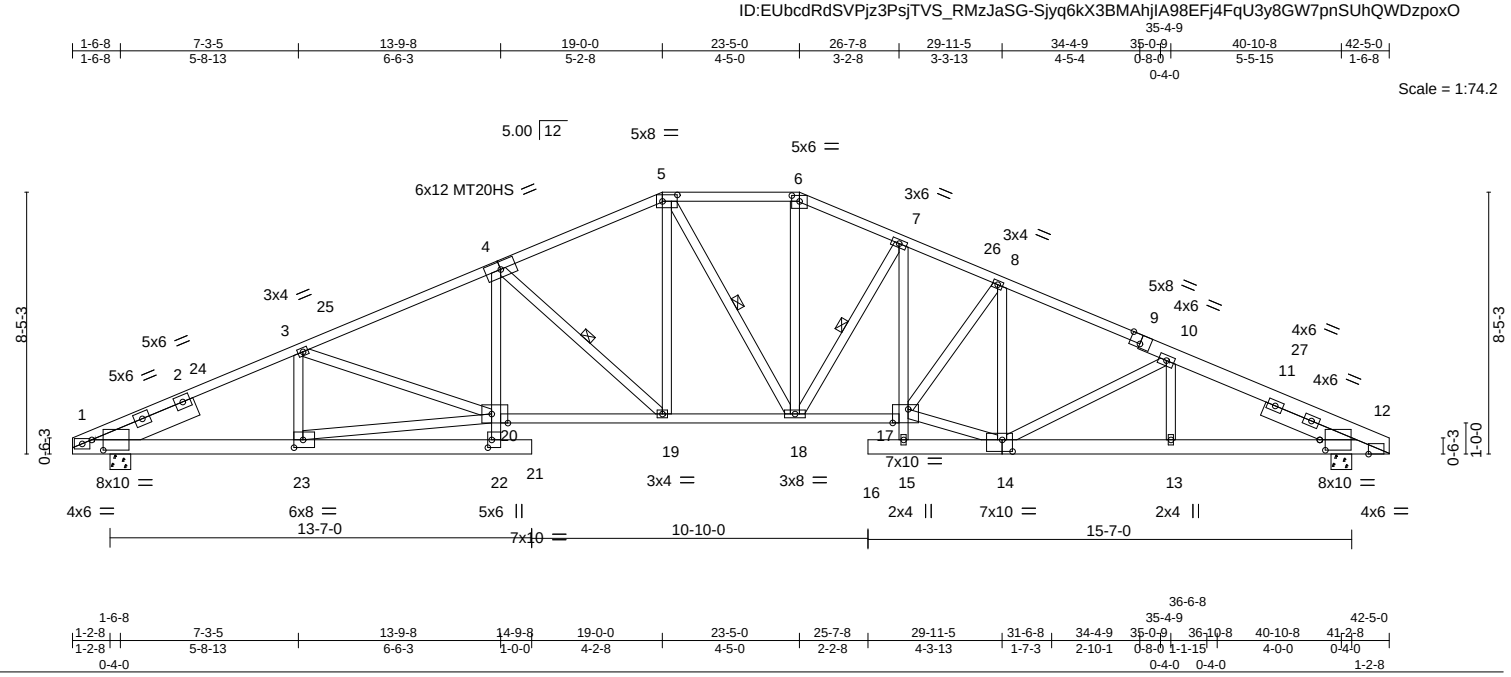


Plate Offsets (X,Y)-- [1:0-4-7,0-4-0], [5:0-5-12,0-2-8], [6:0-3-0,0-2-4], [9:0-4-0,Edge], [12:0-2-2,0-4-0], [12:1-6-14,Edge], [14:0-4-0,0-4-8], [17:0-6-0,0-5-4], [20:0-6-4,Edge], [22:0-3-0,0-1-8], [23:0-3-8,0-3-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.75	Vert(LL)	0.31	21	>999	240	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.82	Vert(CT)	-0.61	19-20	>815	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.25	12	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 311 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except*
	1-4: 2x4 SP No.1, 9-12: 2x6 SP No.2
BOT CHORD	2x6 SP No.2 *Except*
	4-22: 2x4 SP No.3, 17-20: 2x4 SP No.1
WEBS	2x4 SP No.3 *Except*
	20-23,14-17: 2x4 SP No.2
SLIDER	Left 2x8 SP 2400F 2.0E -t 3-6-5, Right 2x6 SP No.2 -t 3-1-15

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 5-9-7 oc bracing. Except:
	10-0-0 oc bracing: 20-22
WEBS	1 Row at midpt 4-19, 5-18, 7-18

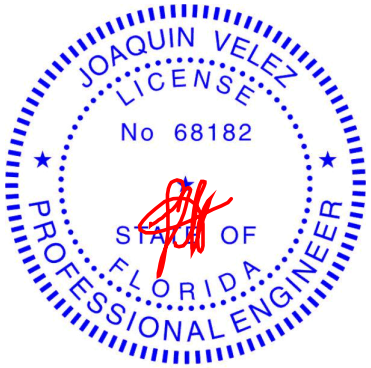
REACTIONS. (size) 1=0-8-0, 12=0-8-0
Max Horz 1=-302(LC 10)
Max Uplift 1=-604(LC 12), 12=-605(LC 12)
Max Grav 1=2112(LC 1), 12=2109(LC 1)

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

TOP CHORD	1-3=-4363/1491, 3-4=-4380/1567, 4-5=-3420/1333, 5-6=-3083/1287, 6-7=-3367/1345, 7-8=-4077/1533, 8-10=-3823/1405, 10-12=-4456/1525
BOT CHORD	1-23=-1249/3904, 22-23=-139/425, 4-20=-130/695, 19-20=-1195/3965, 18-19=-821/3088, 17-18=-1074/3726, 13-14=-1288/3993, 12-13=-1288/3993
WEBS	3-23=-452/274, 20-23=-1122/3519, 4-19=-1282/515, 6-18=-319/960, 8-14=-782/269, 7-17=-336/1113, 5-19=-287/982, 10-14=-689/305, 8-17=-43/501, 14-17=-1089/3604, 7-18=-1283/508

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=79ft; L=40ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-4-0 to 4-4-0, Interior(1) 4-4-0 to 19-0-0, Exterior(2E) 19-0-0 to 23-5-0, Exterior(2R) 23-5-0 to 29-0-14, Interior(1) 29-0-14 to 42-1-0 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) 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.
7) * 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=604, 12=605.



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Date:
February 1,2021

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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
2221_M_160_C_2020	A08	ROOF SPECIAL	1	1	T22667274
					Job Reference (optional)

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950, 8.430 s Nov 30 2020 MiTek Industries, Inc. Sun Jan 31 14:44:22 2021 Page 1
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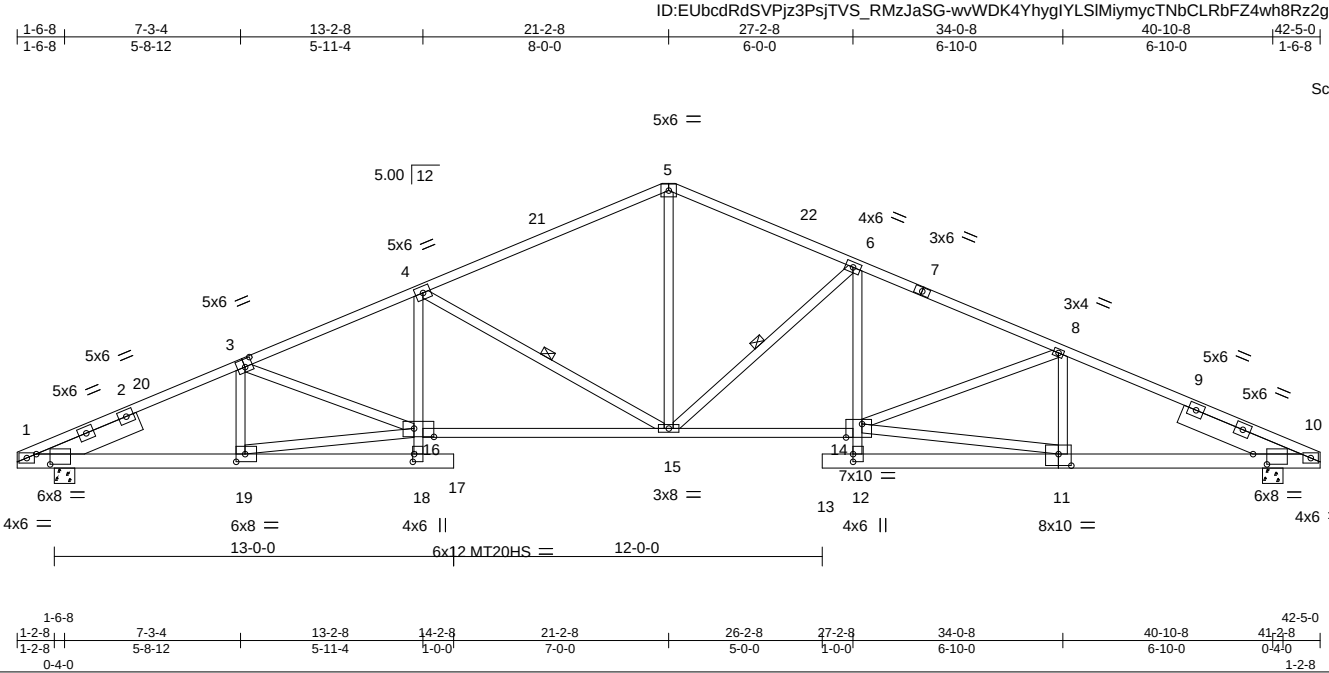


Plate Offsets (X,Y)-- [1:0-5-7,0-4-0], [3:0-3-0,0-3-0], [10:0-5-7,0-4-0], [11:0-5-0,0-4-8], [12:0-3-0,0-0-0], [14:0-6-4,Edge], [16:0-7-12,0-3-4], [18:0-3-0,0-0-8], [19:0-3-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.98	Vert(LL)	0.33	13	>999	240	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.95	Vert(CT)	-0.69	15-16	>721	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.88	Horz(CT)	0.27	10	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 283 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except*
	3-5: 2x4 SP M 31
BOT CHORD	2x6 SP No.2 *Except*
	4-18,6-12: 2x4 SP No.3, 14-16: 2x4 SP No.1
WEBS	2x4 SP No.3 *Except*
	16-19,11-14: 2x4 SP No.2
SLIDER	Left 2x8 SP 2400F 2.0E -t 3-6-5, Right 2x8 SP 2400F 2.0E -t 4-1-8

BRACING-

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied or 5-7-5 oc bracing. Except:
	10-0-0 oc bracing: 16-18, 12-14
WEBS	1 Row at midpt 4-15, 6-15

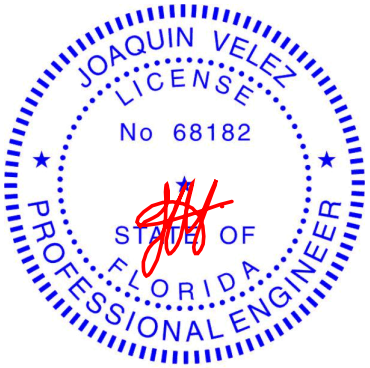
REACTIONS. (size) 1=0-8-0, 10=0-8-0
Max Horz 1=337(LC 11)
Max Uplift 1=-604(LC 12), 10=-605(LC 12)
Max Grav 1=2112(LC 1), 10=2109(LC 1)

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

TOP CHORD	1-3=-4344/1470, 3-4=-4501/1571, 4-5=-3160/1214, 5-6=-3122/1232, 6-8=-4241/1504, 8-10=-4319/1469
BOT CHORD	1-19=-1207/3890, 18-19=-178/399, 4-16=-111/737, 15-16=-1239/4144, 14-15=-1092/3841, 6-14=-187/835, 11-12=-102/317, 10-11=-1203/3851
WEBS	3-19=-505/267, 16-19=-1053/3550, 3-16=0/264, 4-15=-1656/651, 5-15=-570/1800, 6-15=-1463/583, 11-14=-1113/3562, 8-11=-472/284

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=79ft; L=40ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-4-0 to 4-4-0, Interior(1) 4-4-0 to 21-2-8, Exterior(2R) 21-2-8 to 25-2-8, Interior(1) 25-2-8 to 42-1-0 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.
6) * 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=604, 10=605.



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Date:
February 1,2021

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Job	Truss	Truss Type	Qty	Ply	
2221_M_160_C_2020	A10	Roof Special	6	1	T22667275
					Job Reference (optional)

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950, 8.430 s Nov 30 2020 MiTek Industries, Inc. Sun Jan 31 14:44:23 2021 Page 1
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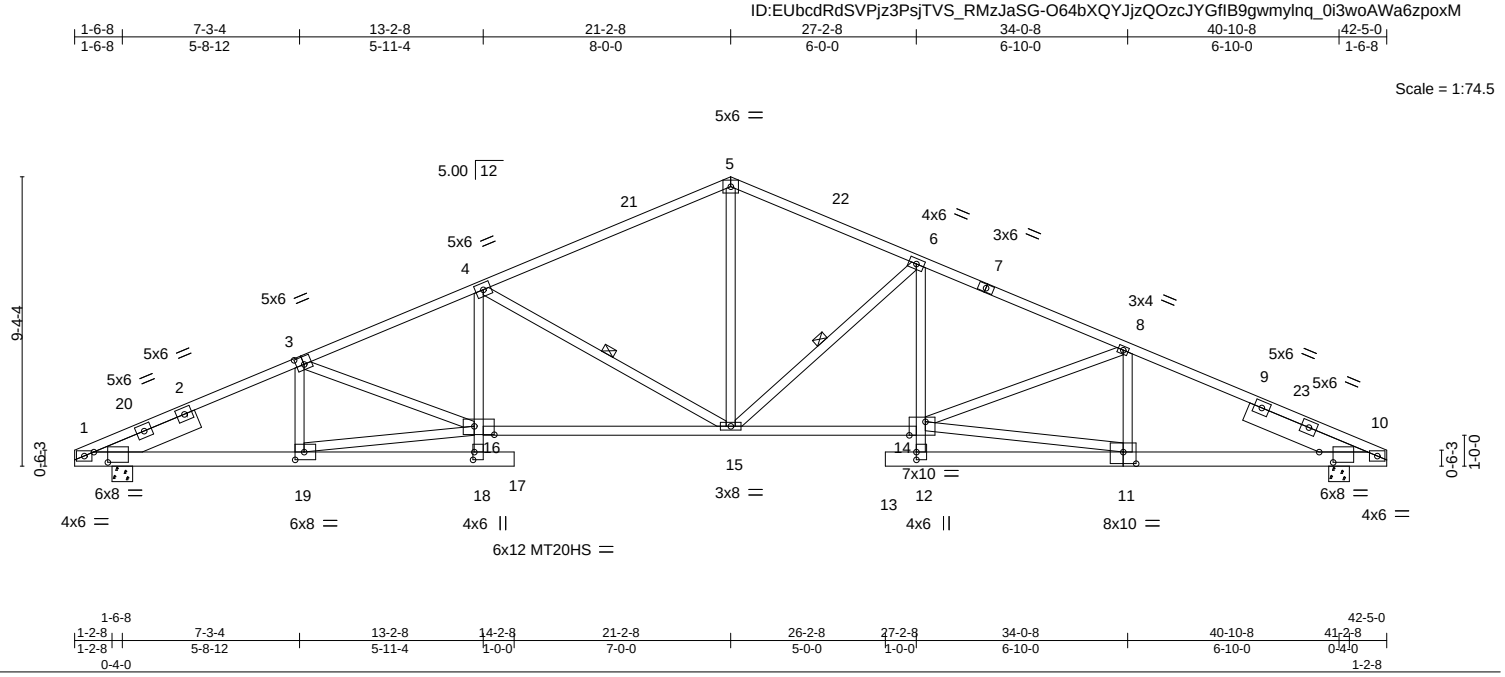


Plate Offsets (X,Y)-- [1:0-5-7,0-4-0], [3:0-3-0,0-3-0], [10:0-5-7,0-4-0], [11:0-5-0,0-4-8], [12:0-3-0,0-0-0], [14:0-6-4,Edge], [16:0-7-12,0-3-4], [18:0-3-0,0-0-8], [19:0-3-8,0-3-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.98	Vert(LL)	0.33	13	>999	240	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.95	Vert(CT)	-0.69	15-16	>721	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.27	10	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 283 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except*
	3-5: 2x4 SP M 31
BOT CHORD	2x6 SP No.2 *Except*
	4-18,6-12: 2x4 SP No.3, 14-16: 2x4 SP No.1
WEBS	2x4 SP No.3 *Except*
	16-19,11-14: 2x4 SP No.2
SLIDER	Left 2x8 SP 2400F 2.0E -t 3-6-5, Right 2x8 SP 2400F 2.0E -t 4-1-8

BRACING-

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied or 5-8-10 oc bracing. Except:
	10-0-0 oc bracing: 16-18, 12-14
WEBS	1 Row at midpt 4-15, 6-15

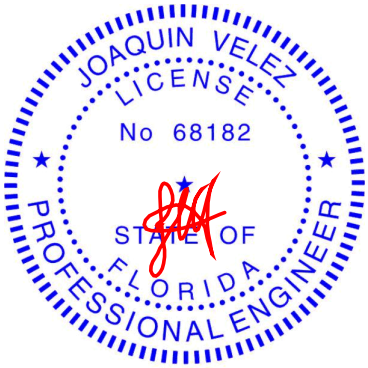
REACTIONS. (size) 1=0-8-0, 10=0-8-0
Max Horz 1=-284(LC 10)
Max Uplift 1=-604(LC 12), 10=-605(LC 12)
Max Grav 1=2112(LC 1), 10=2109(LC 1)

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

TOP CHORD	1-3=-4344/1430, 3-4=-4501/1533, 4-5=-3160/1180, 5-6=-3122/1197, 6-8=-4241/1466, 8-10=-4319/1430
BOT CHORD	1-19=-1177/3873, 18-19=-171/397, 4-16=-105/737, 15-16=-1194/4144, 14-15=-1053/3841, 6-14=-181/833, 11-12=-97/317, 10-11=-1171/3851
WEBS	3-19=-505/262, 16-19=-1026/3535, 3-16=0/264, 4-15=-1578/630, 5-15=-555/1800, 6-15=-1407/561, 11-14=-1082/3562, 8-11=-472/280

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=45ft; L=24ft; eave=5ft; 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 21-2-8, Exterior(2R) 21-2-8 to 24-2-8, Interior(1) 24-2-8 to 42-1-0 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.
6) * 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=604, 10=605.



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February 1,2021

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Job	Truss	Truss Type	Qty	Ply	
2221_M_160_C_2020	A11	COMMON	7	1	T22667276

Job Reference (optional)

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950, 8.430 s Nov 30 2020 MiTek Industries, Inc. Sun Jan 31 14:44:25 2021 Page 1

ID:EUbcdRdSVPjz3PsjTVS_RMzJaSG-KUBLy6aZFbh6CvTwN4KfE5?9BZTPSzfMN6fdf?zpoxK

1-6-8	7-11-7	14-9-15	21-2-8	27-7-1	34-5-9	40-10-8	42-5-0
1-6-8	6-4-15	6-10-8	6-4-9	6-4-9	6-10-8	6-4-15	1-6-8

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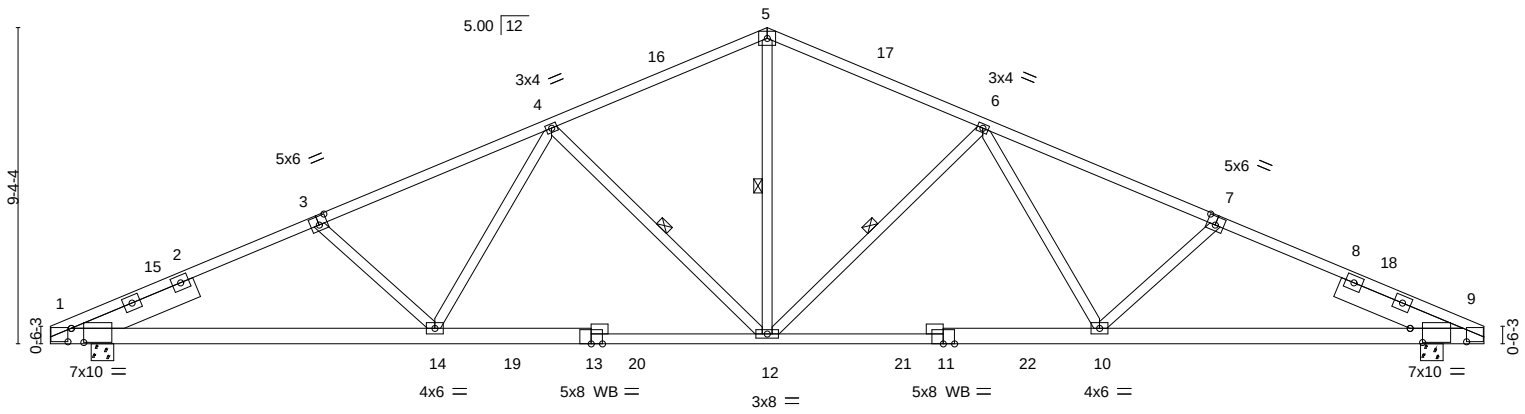


1-6-8	11-4-8	21-2-8	31-0-8	40-10-8	42-5-0
1-2-8	9-10-0	9-10-0	9-10-0	9-10-0	41-2-8
0-4-0					0-4-0
					1-2-8

Plate Offsets (X,Y)-- [1:0-1-3,0-4-12], [1:0-4-7,0-5-0], [3:0-3-0,0-3-0], [7:0-3-0,0-3-0], [9:0-4-7,0-5-0], [9:1-8-1,0-4-12]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.80	Vert(LL)	-0.29	12-14	>999	240	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.94	Vert(CT)	-0.59	12-14	>844	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.17	9	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 258 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.1 *Except*
	1-3,7-9: 2x4 SP No.2
BOT CHORD	2x6 SP No.2 *Except*
	11-13: 2x4 SP No.1
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3
SLIDER	Left 2x8 SP 2400F 2.0E -t 3-10-12,
	Right 2x8 SP 2400F 2.0E -t 3-10-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	1 Row at midpt 5-12, 6-12, 4-12

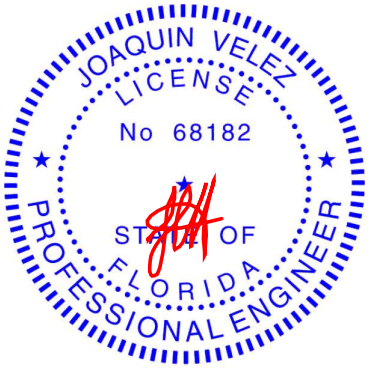
REACTIONS. (size) 1=0-8-0, 9=0-8-0
Max Horz 1=-248(LC 10)
Max Uplift 1=-795(LC 12), 9=-795(LC 12)
Max Grav 1=2274(LC 19), 9=2274(LC 19)

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

TOP CHORD	1-3=-4610/1778, 3-4=-4263/1652, 4-5=-3015/1337, 5-6=-3015/1337, 6-7=-4263/1652, 7-9=-4610/1778
BOT CHORD	1-14=-1480/4179, 12-14=-1124/3456, 10-12=-1111/3454, 9-10=-1482/4133
WEBS	5-12=-667/1846, 6-12=-1141/567, 6-10=-176/864, 7-10=-487/408, 4-12=-1142/567, 4-14=-176/865, 3-14=-487/408

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=25ft; B=45ft; L=24ft; eave=5ft; 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 21-2-8, Exterior(2R) 21-2-8 to 24-2-8, Interior(1) 24-2-8 to 42-1-0 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 5x6 MT20 unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * 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=795, 9=795.



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February 1,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
2221_M_160_C_2020	A12	Roof Special	4	1	T22667277

Job Reference (optional)

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950, 8.430 s Nov 30 2020 MiTek Industries, Inc. Sun Jan 31 14:44:26 2021 Page 1

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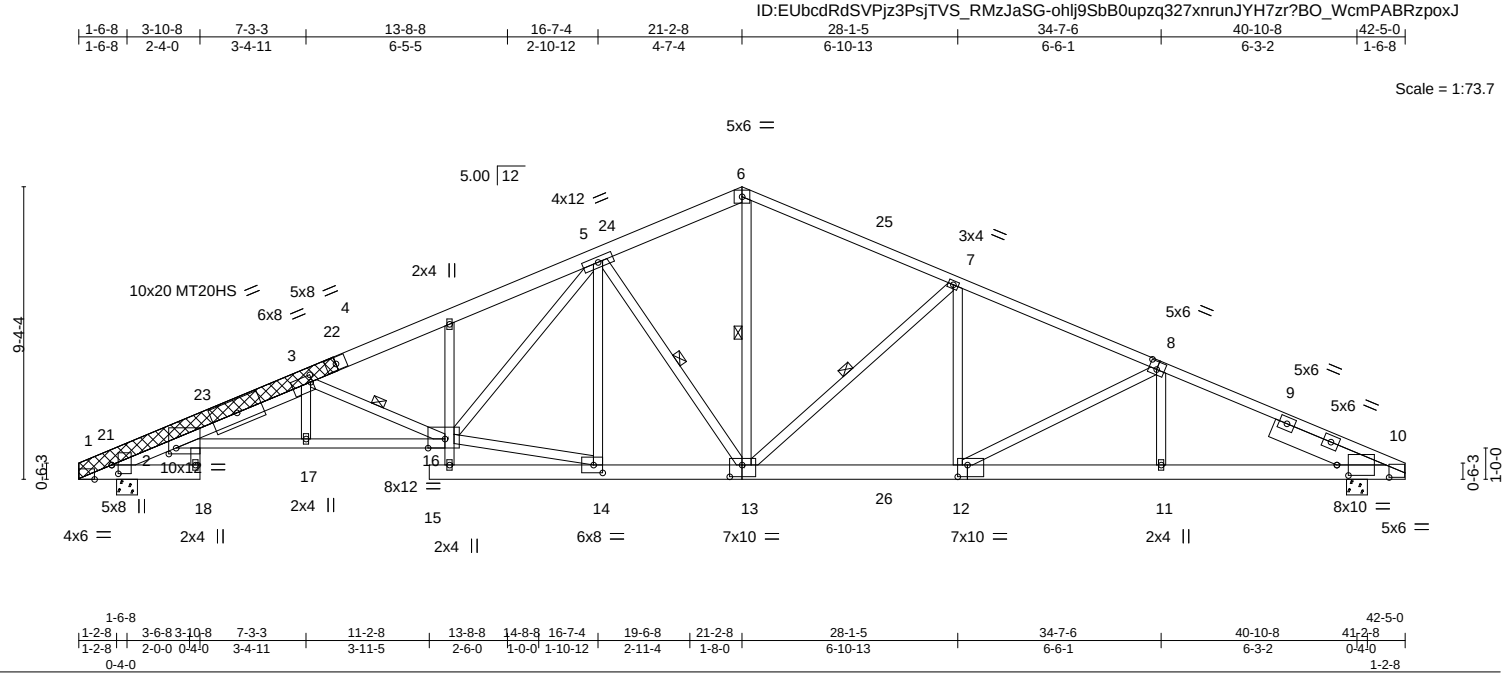


Plate Offsets (X,Y)-- [1:0-3-5,0-2-8], [1:0-6-10,Edge], [2:0-2-13,0-2-4], [3:0-0-12,0-2-12], [8:0-3-0,0-3-0], [10:0-4-7,0-4-0], [10:1-8-1,0-4-12], [12:0-3-12,0-4-8], [13:0-4-12,0-4-8], [14:0-3-8,0-3-0], [16:0-6-8,Edge]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.98	Vert(LL)	-0.50	15	>999	240	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.79	Vert(CT)	-1.15	15	>437	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.39	10	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 352 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except*
	4-6: 2x6 SP No.2, 1-4: 2x6 SP M 26, 1-3: 2x4 SP No.1
BOT CHORD	2x6 SP No.2 *Except*
	2-16: 2x4 SP M 31, 6-13: 2x4 SP No.3, 13-15: 2x6 SP M 26
WEBS	2x4 SP No.3 *Except*
	14-16: 2x4 SP No.2
OTHERS	2x6 SP M 26
LBR SCAB	1-4 2x6 SP M 26 both sides
SLIDER	Right 2x8 SP 2400F 2.0E -t 3-9-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied or 5-6-14 oc bracing. Except:
	7-1-0 oc bracing: 6-13
WEBS	1 Row at midpt 7-13, 3-16, 5-13

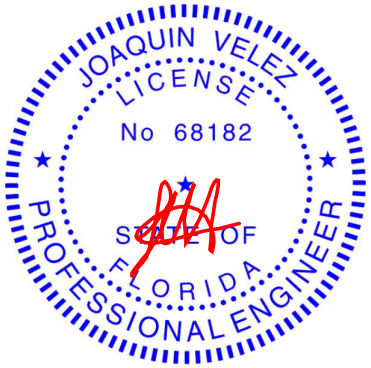
REACTIONS. (size) 1=0-8-0, 10=0-8-0
Max Horz 1=335(LC 11)
Max Uplift 1=-604(LC 12), 10=-616(LC 12)
Max Grav 1=2367(LC 17), 10=2343(LC 18)

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

TOP CHORD	1-2=-956/312, 2-3=-6778/2122, 3-5=-5256/1704, 5-6=-2956/1202, 6-7=-2997/1178, 7-8=-3945/1360, 8-10=-4749/1500
BOT CHORD	2-17=-1968/6894, 16-17=-1966/6891, 6-13=-643/1896, 13-14=-877/3532, 12-13=-968/3520, 11-12=-1239/4227, 10-11=-1237/4233
WEBS	7-13=-1314/468, 7-12=-62/670, 8-12=-819/317, 8-11=0/263, 5-14=-364/291, 14-16=-892/3593, 5-16=-628/2182, 3-16=-2205/798, 5-13=-1414/455

NOTES-

1) Attached 9-0-0 scab 1 to 4, both face(s) 2x6 SP M 26 with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 0-3-8 from end at joint 1, nail 3 row(s) at 4" o.c. for 5-4-1.
2) Unbalanced roof live loads have been considered for this design.
3) Wind: ASCE 7-16; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=79ft; L=40ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-4-0 to 4-4-0, Interior(1) 4-4-0 to 21-2-8, Exterior(2R) 21-2-8 to 25-2-8, Interior(1) 25-2-8 to 42-1-0 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
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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.
7) * 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.
8) Solid blocking is required on both sides of the truss at joint(s), 1.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=604, 10=616.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: February 1,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
2221_M_160_C_2020	A14	COMMON	1	1	T22667278
					Job Reference (optional)

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950, 8.430 s Nov 30 2020 MiTek Industries, Inc. Sun Jan 31 14:44:28 2021 Page 1
ID:EUbcdRdSVPjz3PsjTVS_RMzJaSG-l3tUa7cSYW3h3NCV2CtMsjdgQmU5fKPp34uHFKzpoxH

1-6-8	7-11-7	14-9-15	21-2-8	27-7-1	34-5-9	40-10-8	42-5-0
1-6-8	6-4-15	6-10-8	6-4-9	6-4-9	6-10-8	6-4-15	1-6-8

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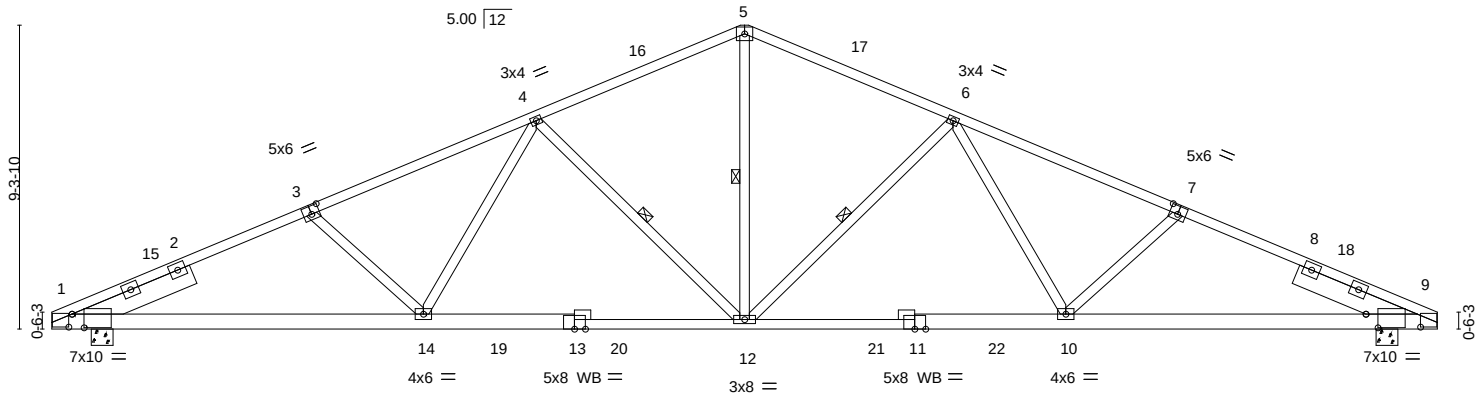


1-6-8	11-4-8	21-2-8	31-0-8	40-10-8	42-5-0
1-2-8	9-10-0	9-10-0	9-10-0	9-10-0	41-2-8
1-2-8					1-2-8
0-4-0					0-4-0

Plate Offsets (X,Y)-- [1:0-1-3,0-4-12], [1:0-4-7,0-5-0], [3:0-3-0,0-3-0], [7:0-3-0,0-3-0], [9:0-4-7,0-5-0], [9:1-8-1,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.80	Vert(LL)	-0.29	12-14	>999	240	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.94	Vert(CT)	-0.59	12-14	>844	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.17	9	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 257 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.1 *Except* 1-3,7-9: 2x4 SP No.2
BOT CHORD	2x6 SP No.2 *Except* 11-13: 2x4 SP No.1
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3
SLIDER	Left 2x8 SP 2400F 2.0E -t 3-10-12, Right 2x8 SP 2400F 2.0E -t 3-10-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	1 Row at midpt 5-12, 6-12, 4-12

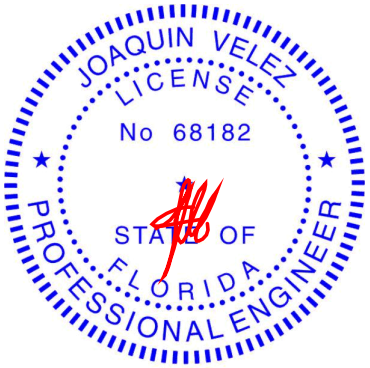
REACTIONS. (size) 1=0-8-0, 9=0-8-0
Max Horz 1=248(LC 11)
Max Uplift 1=-795(LC 12), 9=-795(LC 12)
Max Grav 1=2274(LC 19), 9=2274(LC 19)

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

TOP CHORD	1-3=-4610/1778, 3-4=-4263/1652, 4-5=-3015/1337, 5-6=-3015/1337, 6-7=-4263/1652, 7-9=-4610/1778
BOT CHORD	1-14=-1480/4179, 12-14=-1124/3456, 10-12=-1111/3454, 9-10=-1482/4133
WEBS	5-12=-667/1846, 6-12=-1141/567, 6-10=-176/864, 7-10=-487/408, 4-12=-1142/567, 4-14=-176/865, 3-14=-487/408

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=25ft; B=45ft; L=24ft; eave=5ft; 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 21-2-8, Exterior(2R) 21-2-8 to 24-2-8, Interior(1) 24-2-8 to 42-1-0 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 5x6 MT20 unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * 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=795, 9=795.



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February 1,2021

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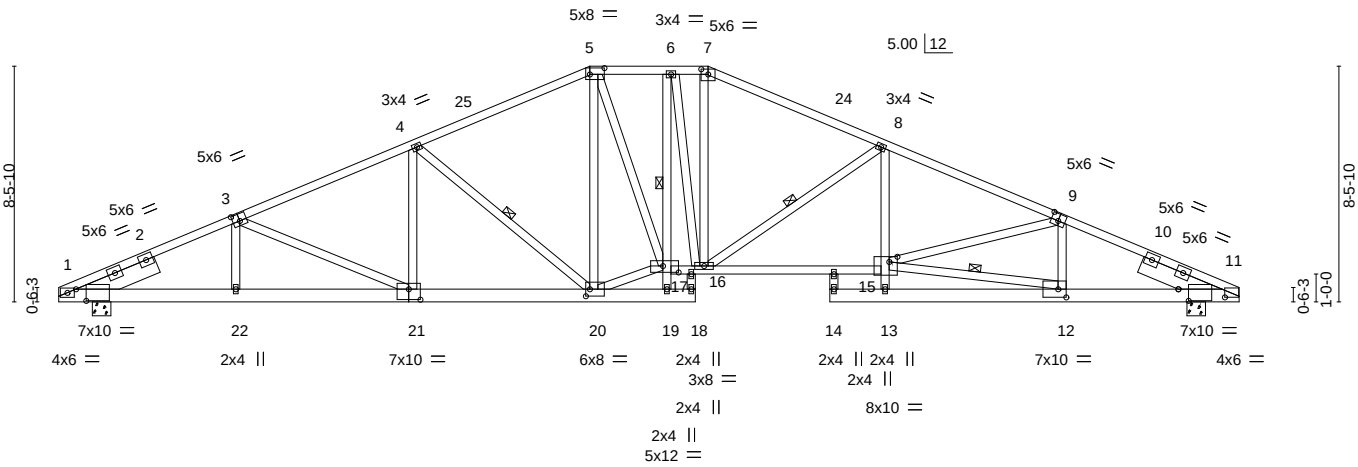
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
2221_M_160_C_2020	A15	Hip	1	1	T22667279
					Job Reference (optional)

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950, 8.430 s Nov 30 2020 MiTek Industries, Inc. Sun Jan 31 14:44:29 2021 Page 1
ID:EUbcdRdSVPjz3PsjTVS_RMzJaSG-DFRsoTd4JpBYhXnicwObOxAr3As_OkhyIkeromzpoxG

6-4-5	12-8-11	19-1-0	22-10-8	23-4-0	27-8-8	29-8-5	36-0-11	42-5-0
6-4-5	6-4-5	6-4-5	3-9-8	0-5-8	4-4-8	1-11-13	6-4-5	6-4-5

Scale = 1:82.8



1-2-8	6-4-5	12-8-11	19-1-0	22-10-8	23-4-0	27-8-8	29-8-5	36-0-11	41-2-8	42-5-0
1-2-8	5-1-13	6-4-5	6-4-5	3-9-8	0-5-8	4-4-8	1-11-13	6-4-5	5-1-13	1-2-8

Plate Offsets (X,Y)-- [1:0-4-7,0-5-0], [3:0-3-0,0-3-0], [5:0-6-4,0-2-12], [7:0-3-0,0-2-4], [9:0-3-0,0-3-0], [11:1-8-1,0-3-8], [11:0-4-7,0-5-0], [12:0-3-8,0-3-8], [15:0-3-8,0-2-4], [17:0-6-12,0-2-12], [20:0-1-12,0-3-0], [21:0-5-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.81	Vert(LL)	0.37	14	>999	240	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.77	Vert(CT)	-0.62	15-16	>804	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.88	Horz(CT)	-0.24	1	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 319 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except*
	7-9,3-5: 2x4 SP No.1
BOT CHORD	2x6 SP No.2 *Except*
	14-23,16-18: 2x4 SP No.3, 15-17: 2x4 SP No.1
WEBS	2x4 SP No.3 *Except*
	12-15,17-20: 2x4 SP No.2
SLIDER	Left 2x8 SP 2400F 2.0E -t 3-0-6, Right 2x8 SP 2400F 2.0E -t 3-0-6

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 5-0-14 oc bracing.
WEBS	1 Row at midpt 8-16, 12-15, 6-19, 4-20

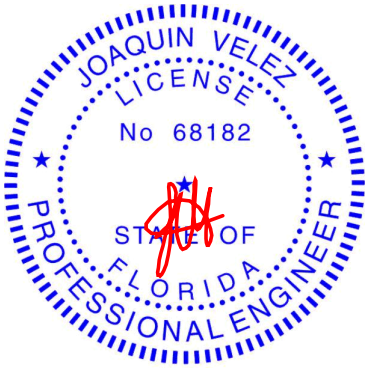
REACTIONS. (size) 11=0-8-0, 1=0-8-0
Max Horz 11=223(LC 11)
Max Uplift 11=-774(LC 12), 1=-783(LC 12)
Max Grav 11=2124(LC 1), 1=2108(LC 1)

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

TOP CHORD	7-8=-3452/1516, 8-9=-4781/1929, 9-11=-4426/1736, 5-6=-3085/1478, 6-7=-3103/1481, 1-3=-4390/1761, 3-4=-3837/1627, 4-5=-3065/1409
BOT CHORD	11-12=-1466/3950, 16-17=-959/3090, 15-16=-1534/4366, 1-22=-1486/3917, 21-22=-1489/3915, 20-21=-1242/3467
WEBS	9-12=-585/343, 9-15=-47/423, 8-15=-194/863, 5-20=-251/58, 4-21=-44/437, 3-21=-523/297, 7-16=-304/867, 8-16=-1557/704, 12-15=-1458/3917, 4-20=-976/509, 5-17=-313/1001, 17-20=-887/2824

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=25ft; B=45ft; L=24ft; eave=5ft; 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 19-1-0, Exterior(2E) 19-1-0 to 23-4-0, Exterior(2R) 23-4-0 to 27-6-15, Interior(1) 27-6-15 to 42-1-0 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.
6) * 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) 11=774, 1=783.



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February 1,2021

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Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
2221_M_160_C_2020	A16	Hip	1	1	T22667280

Job Reference (optional)

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950, 8.430 s Nov 30 2020 MiTek Industries, Inc. Sun Jan 31 14:44:30 2021 Page 1

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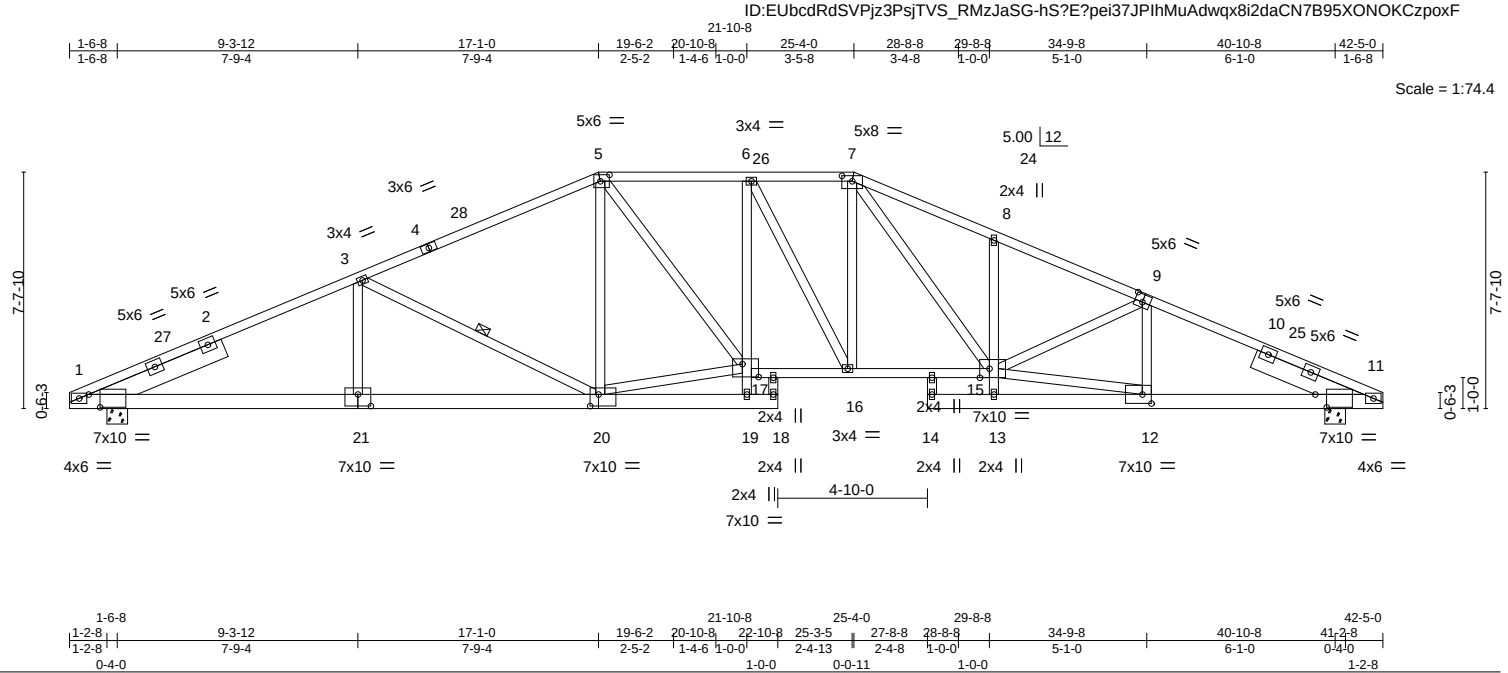


Plate Offsets (X,Y)-- [1:0-4-7,0-5-0], [5:0-3-8,0-2-8], [7:0-4-0,0-2-2], [9:0-3-0,0-3-0], [11:0-4-7,0-5-0], [12:0-3-8,0-3-8], [15:0-3-12,Edge], [17:0-6-4,0-5-0], [20:0-3-4,0-4-8], [21:0-5-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.69	Vert(LL)	0.35	14	>999	240	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.82	Vert(CT)	-0.59	14	>844	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.87	Horz(CT)	-0.24	1	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 307 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except* 4-5,1-4: 2x4 SP M 31
BOT CHORD	2x6 SP No.2 *Except* 15-17: 2x4 SP No.2
WEBS	2x4 SP No.3 *Except* 12-15,17-20: 2x4 SP No.2
SLIDER	Left 2x8 SP 2400F 2.0E -t 4-7-9, Right 2x8 SP 2400F 2.0E -t 3-8-10

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 5-5-10 oc bracing.
WEBS	1 Row at midpt 3-20

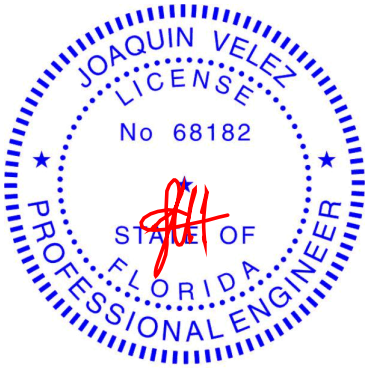
REACTIONS. (size) 11=0-8-0, 1=0-8-0
Max Horz 11=200(LC 11)
Max Uplift 11=-773(LC 12), 1=-782(LC 12)
Max Grav 11=2125(LC 1), 1=2110(LC 1)

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

TOP CHORD	7-8=-4592/2009, 8-9=-4578/1866, 9-11=-4377/1713, 5-6=-3611/1643, 6-7=-3399/1557, 1-3=-4302/1722, 3-5=-3354/1465
BOT CHORD	11-12=-1438/3903, 16-17=-1181/3624, 15-16=-1089/3397, 1-21=-1432/3836, 20-21=-1432/3836
WEBS	9-12=-589/332, 12-15=-1435/3850, 9-15=0/361, 7-15=-620/1352, 3-20=-987/529, 3-21=0/348, 8-15=-399/322, 5-17=-357/1099, 7-16=-69/475, 6-16=-603/211, 17-20=-970/3001

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=25ft; B=45ft; L=24ft; eave=5ft; 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 17-1-6, Exterior(2R) 17-1-6 to 21-4-4, Interior(1) 21-4-4 to 25-3-10, Exterior(2R) 25-3-10 to 29-6-9, Interior(1) 29-6-9 to 42-1-0 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.
6) * 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) 11=773, 1=782.



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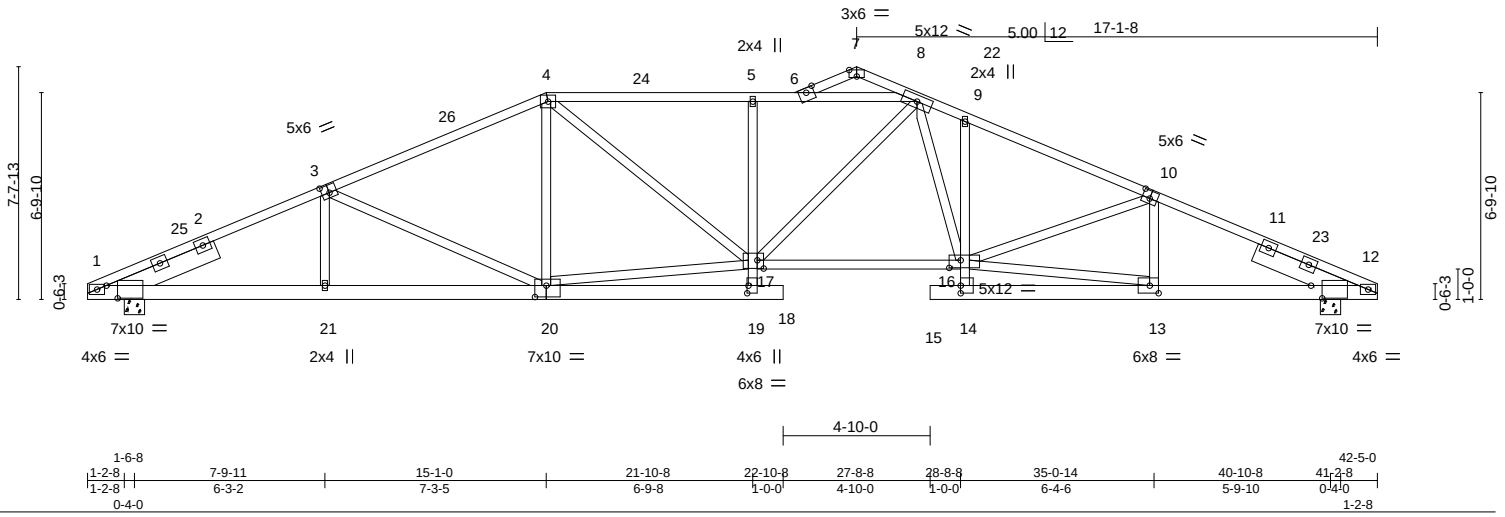
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
2221_M_160_C_2020	A17	Roof Special	1	1	T22667281
					Job Reference (optional)

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950, 8.430 s Nov 30 2020 MiTek Industries, Inc. Sun Jan 31 14:44:32 2021 Page 1
ID:EUbcdRdSVPjz3PsjTVS_RMzJaSG-dq7?QVfybkZ7Y_VHH2yl0ZoJNNu2b33O_isVO5zpoxD

1-6-8 | 7-9-11 | 15-1-0 | 21-10-8 | 27-3-5 | 28-8-8 | 35-0-14 | 40-10-8 | 42-5-0
1-6-8 | 6-3-2 | 7-3-5 | 6-9-8 | 5-4-13 | 1-5-3 | 6-4-6 | 5-9-10 | 1-6-8

Scale = 1:75.8



1-6-8 | 7-9-11 | 15-1-0 | 21-10-8 | 22-10-8 | 27-8-8 | 28-8-8 | 35-0-14 | 40-10-8 | 42-5-0
1-2-8 | 6-3-2 | 7-3-5 | 6-9-8 | 1-0-0 | 4-10-0 | 1-0-0 | 6-4-6 | 5-9-10 | 41-2-8
0-4-0 | | | | | | | | | 0-4-0
1-2-8

Plate Offsets (X,Y)-- [1:0-4-7,0-5-0], [3:0-3-0,0-3-0], [7:0-3-0,Edge], [10:0-3-0,0-3-0], [12:0-4-7,0-5-0], [13:0-3-8,0-3-0], [14:0-3-0,0-0-0], [16:0-4-8,0-3-0], [17:0-2-8,0-3-4], [19:0-3-0,0-0-8], [20:0-4-8,0-4-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	1.00	Vert(LL)	0.38	16-17	>999	240	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.81	Vert(CT)	-0.70	16-17	>718	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.97	Horz(CT)	-0.23	1	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 300 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except*
	4-8: 2x4 SP No.1, 3-4: 2x4 SP M 31
BOT CHORD	2x6 SP No.2 *Except*
	9-14,5-19: 2x4 SP No.3, 16-17: 2x4 SP No.1
WEBS	2x4 SP No.3 *Except*
	13-16,17-20: 2x4 SP No.2
SLIDER	Left 2x8 SP 2400F 2.0E -t 3-9-12, Right 2x8 SP 2400F 2.0E -t 3-6-13

BRACING-

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied or 5-6-13 oc bracing. Except:
	10-0-0 oc bracing: 14-16, 17-19

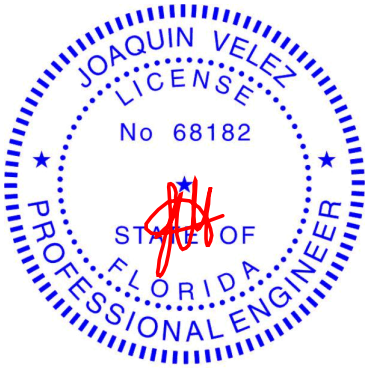
REACTIONS. (size) 12=0-8-0, 1=0-8-0
Max Horz 12=-201(LC 10)
Max Uplift 12=-780(LC 12), 1=-785(LC 12)
Max Grav 12=2113(LC 1), 1=2105(LC 1)

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

TOP CHORD	7-8=-392/255, 8-9=-4388/2001, 9-10=-4392/1870, 10-12=-4360/1768, 4-5=-4054/1889, 5-6=-4074/1891, 6-8=-3709/1695, 1-3=-4354/1822, 3-4=-3562/1605, 6-7=-396/237
BOT CHORD	13-14=-163/370, 12-13=-1508/3894, 9-16=-436/315, 16-17=-1288/3609, 5-17=-657/421, 1-21=-1525/3889, 20-21=-1528/3886, 19-20=-118/293
WEBS	10-13=-468/315, 13-16=-1368/3575, 8-17=-306/836, 3-20=-799/448, 3-21=0/279, 8-16=-501/1201, 4-17=-433/1125, 17-20=-1030/2916

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=25ft; B=45ft; L=24ft; eave=5ft; 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 15-1-6, Exterior(2R) 15-1-6 to 18-1-6, Interior(1) 18-1-6 to 25-3-8, Exterior(2R) 25-3-8 to 28-3-8, Interior(1) 28-3-8 to 42-1-0 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) All plates are 5x6 MT20 unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * 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) 12=780, 1=785.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
February 1,2021

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Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
2221_M_160_C_2020	A18	Roof Special	1	1	T22667282

Job Reference (optional)

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950, 8.430 s Nov 30 2020 MiTek Industries, Inc. Sun Jan 31 14:44:33 2021 Page 1

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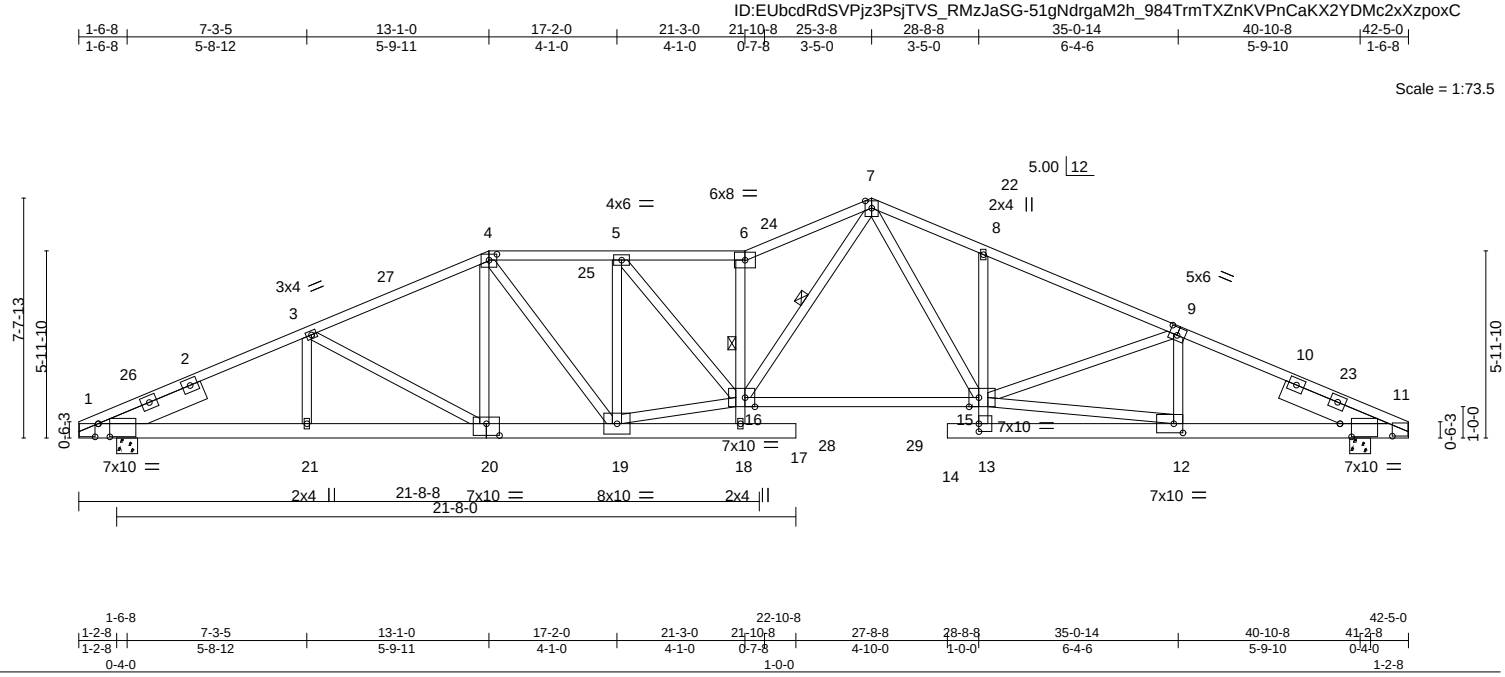


Plate Offsets (X,Y)-- [1:0-1-3,0-5-0], [1:0-4-7,0-5-0], [4:0-3-0,0-2-4], [9:0-3-0,0-3-0], [11:0-4-7,0-5-0], [11:1-8-1,0-4-12], [12:0-3-8,0-3-8], [13:0-3-0,0-0-0], [15:0-3-12,Edge], [16:0-3-12,Edge], [20:0-5-0,0-4-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.92	Vert(LL)	-0.47	15-16	>999	240	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.92	Vert(CT)	-1.02	15-16	>491	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.92	Horz(CT)	-0.25	1	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 301 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except*
	7-9,1-4: 2x4 SP No.1
BOT CHORD	2x6 SP No.2 *Except*
	8-13: 2x4 SP No.3, 15-16: 2x4 SP M 31
WEBS	2x4 SP No.3 *Except*
	12-15,7-16,16-19: 2x4 SP No.2
SLIDER	Left 2x8 SP 2400F 2.0E -t 3-6-5, Right 2x8 SP 2400F 2.0E -t 3-6-13

BRACING-

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied or 5-11-9 oc bracing. Except:
	2-2-0 oc bracing: 13-15
WEBS	1 Row at midpt 7-16, 6-18

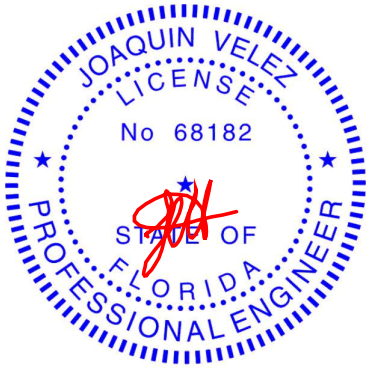
REACTIONS. (size) 11=0-8-0, 1=0-8-0
Max Horz 11=-201(LC 10)
Max Uplift 11=-776(LC 12), 1=-781(LC 12)
Max Grav 11=2300(LC 19), 1=2276(LC 19)

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

TOP CHORD	7-8=-4828/2000, 8-9=-4821/1846, 9-11=-4747/1778, 6-7=-5702/2351, 4-5=-4181/1786, 5-6=-5209/2106, 1-3=-4707/1824, 3-4=-4077/1679
BOT CHORD	12-13=-180/355, 11-12=-1495/4308, 8-15=-437/356, 15-16=-1147/3666, 1-21=-1533/4219, 20-21=-1533/4219, 19-20=-1240/3676
WEBS	9-12=-471/310, 12-15=-1328/4014, 7-15=-569/1545, 7-16=-1149/2899, 5-16=-490/1563, 5-19=-1487/613, 4-19=-307/885, 4-20=-125/524, 3-20=-659/349, 16-19=-1422/4139, 6-16=-2431/1114

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=25ft; B=45ft; L=24ft; eave=5ft; 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 13-1-0, Exterior(2R) 13-1-0 to 16-1-0, Interior(1) 16-1-0 to 25-3-8, Exterior(2R) 25-3-8 to 28-3-8, Interior(1) 28-3-8 to 42-1-0 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) All plates are 5x6 MT20 unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * 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.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=776, 1=781.



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Date:
February 1,2021

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Job	Truss	Truss Type	Qty	Ply	
2221_M_160_C_2020	A19	Hip	1	1	T22667283

Job Reference (optional)

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950, 8.430 s Nov 30 2020 MiTek Industries, Inc. Sun Jan 31 14:44:34 2021 Page 1

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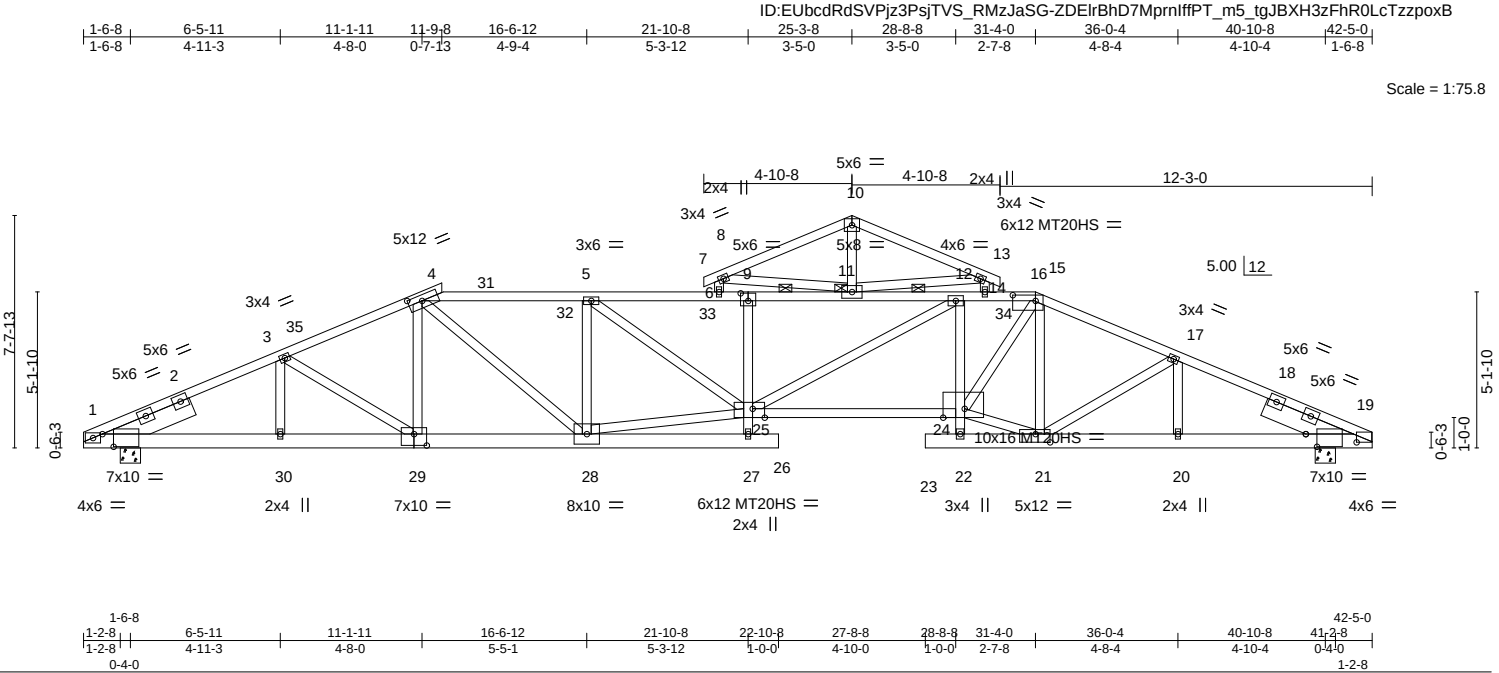


Plate Offsets (X,Y)-- [1:0-4-7,0-5-0], [4:0-5-8,0-2-4], [9:0-3-0,0-3-0], [16:0-9-0,0-2-4], [19:1-8-1,0-3-4], [19:0-4-7,0-5-0], [21:0-5-12,0-3-4], [24:0-8-8,Edge], [25:0-4-12,Edge], [29:0-5-0,0-4-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.91	Vert(LL)	0.59	26	>855	240	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.95	Vert(CT)	-0.92	24-25	>542	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.99	Horz(CT)	-0.27	1	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 319 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
4-9: 2x4 SP M 31, 9-16: 2x4 SP No.1

BOT CHORD 2x6 SP No.2 *Except*
12-22: 2x4 SP No.3, 24-25: 2x4 SP No.1

WEBS 2x4 SP No.3 *Except*
21-24,25-28: 2x4 SP No.2

SLIDER Left 2x8 SP 2400F 2.0E -t 3-1-2, Right 2x8 SP 2400F 2.0E -t 3-0-10

BRACING-

TOP CHORD Structural wood sheathing directly applied. Except:
1 Row at midpt 6-11, 11-14

BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. Except:
10-0-0 oc bracing: 22-24

JOINTS 1 Brace at Jt(s): 11

REACTIONS. (size) 19=0-8-0, 1=0-8-0
Max Horz 19=191(LC 11)
Max Uplift 19=-889(LC 12), 1=-859(LC 12)
Max Grav 19=2136(LC 1), 1=2119(LC 1)

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

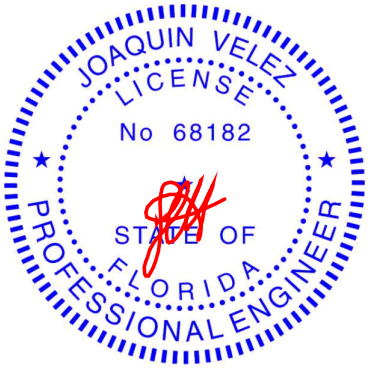
TOP CHORD 16-17=-4030/2003, 17-19=-4431/2066, 4-5=-4518/2305, 5-6=-5779/2918, 6-9=-5779/2918, 9-11=-5802/2920, 11-12=-5802/2934, 12-14=-5042/2525, 14-16=-5043/2525, 1-3=-4393/2009, 3-4=-3986/1935, 10-13=-328/259, 8-10=-327/255

BOT CHORD 20-21=-1771/3955, 19-20=-1771/3955, 12-24=-645/474, 24-25=-2230/5079, 1-30=-1708/3923, 29-30=-1708/3923, 28-29=-1501/3567

WEBS 17-21=-447/208, 16-21=-995/461, 21-24=-1545/3690, 16-24=-1122/2481, 12-25=-491/1025, 5-25=-760/1553, 5-28=-1541/875, 4-28=-672/1312, 4-29=-103/384, 3-29=-399/249, 13-14=-342/343, 6-8=-342/340, 11-13=-133/263, 8-11=-137/269, 9-25=-459/434, 25-28=-1938/4390

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=25ft; B=45ft; L=24ft; eave=5ft; 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 11-5-14, Exterior(2R) 11-5-14 to 15-8-12, Interior(1) 15-8-12 to 25-3-8, Exterior(2R) 25-3-8 to 29-8-0, Interior(1) 29-8-0 to 42-1-0 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) 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.
7) * 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) 19=889, 1=859.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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Date: February 1,2021

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Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
2221_M_160_C_2020	A20	Roof Special	1	1	T22667284
					Job Reference (optional)

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950, 8.430 s Nov 30 2020 MiTek Industries, Inc. Sun Jan 31 14:44:36 2021 Page 1
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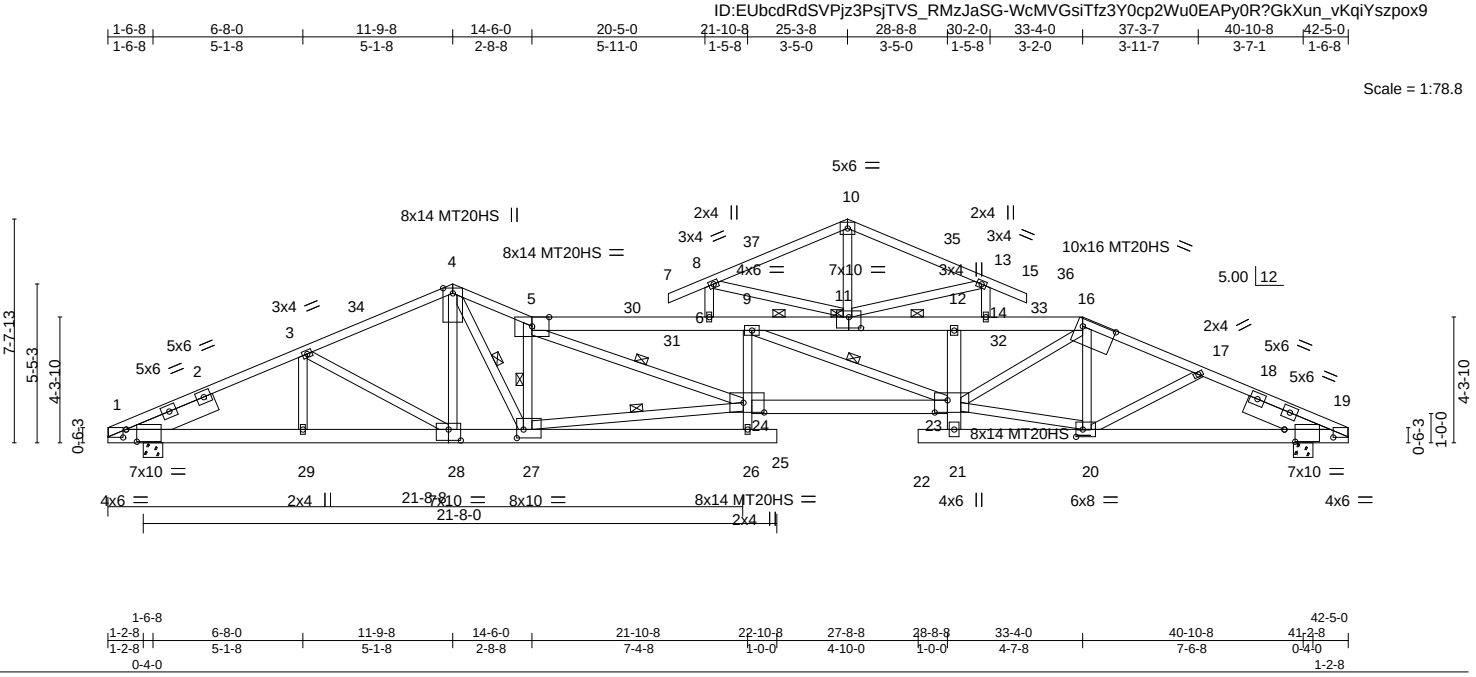


Plate Offsets (X,Y)-- [1:0-1-3,0-3-4], [1:0-4-7,0-5-0], [11:0-5-0,0-4-8], [16:1-1-8,0-3-0], [19:0-4-7,0-5-0], [19:1-8-1,0-3-4], [20:0-2-12,0-3-0], [23:0-5-4,0-5-0], [24:0-8-8,0-4-0], [27:0-2-12,0-3-8], [28:0-5-0,0-4-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.93	Vert(LL)	0.82	25	>611	240	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.76	Vert(CT)	-1.14	25	>440	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.93	Horz(CT)	-0.30	1	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 349 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except*
	11-16: 2x6 SP No.2, 5-11: 2x6 SP M 26
BOT CHORD	2x6 SP No.2 *Except*
	23-24: 2x6 SP M 26
WEBS	2x4 SP No.3 *Except*
	20-23,16-23,5-24,4-27,9-26: 2x4 SP No.2, 24-27: 2x4 SP No.1
SLIDER	Left 2x8 SP 2400F 2.0E -t 3-2-6, Right 2x8 SP 2400F 2.0E -t 3-0-0

BRACING-

TOP CHORD	Structural wood sheathing directly applied. Except:
	1 Row at midpt 6-11, 11-14
BOT CHORD	Rigid ceiling directly applied or 4-7-7 oc bracing. Except:
	10-0-0 oc bracing: 21-23
WEBS	1 Row at midpt 5-24, 5-27, 4-27, 9-23, 24-27
JOINTS	1 Brace at Jt(s): 11

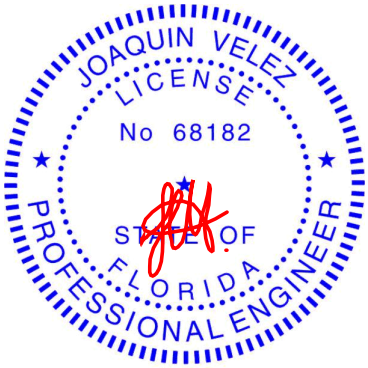
REACTIONS. (size) 19=0-8-0, 1=0-8-0
Max Horz 19=-178(LC 10)
Max Uplift 19=-980(LC 12), 1=-920(LC 12)
Max Grav 19=2181(LC 1), 1=2150(LC 1)

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

TOP CHORD	16-17=-4321/2638, 17-19=-4522/2687, 5-6=-8035/4869, 6-9=-8034/4868,
	9-11=-6925/4377, 11-12=-6925/4295, 12-14=-6697/4208, 14-16=-6697/4208,
	4-5=-5638/3339, 1-3=-4460/2361, 3-4=-4007/2305
BOT CHORD	20-21=-635/979, 19-20=-2401/4032, 12-23=-476/657, 23-24=-4684/8137,
	1-29=-2027/3986, 28-29=-2027/3986, 27-28=-1848/3627, 26-27=-164/286
WEBS	16-20=-564/472, 20-23=-1727/3081, 16-23=-2032/3239, 5-24=-1892/2948,
	5-27=-3641/2344, 4-27=-2044/3360, 13-14=-404/556, 10-11=-270/225, 6-8=-406/507,
	9-24=-201/379, 9-23=-1537/1126, 24-27=-2722/5045, 4-28=-174/386, 3-28=-441/227

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=25ft; B=45ft; L=24ft; eave=5ft; 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 11-9-8, Exterior(2E) 11-9-8 to 14-6-0, Interior(1) 19-2-0 to 25-3-8, Exterior(2R) 14-6-0 to 17-6-0, Interior(1) 17-6-0 to 33-4-0, Exterior(2R) 25-3-8 to 28-3-8, Interior(1) 28-3-8 to 42-1-0 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) 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.
7) * 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) 19=980, 1=920.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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February 1,2021

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Job	Truss	Truss Type	Qty	Ply	
2221_M_160_C_2020	B03	Hip Girder	1	1	T22667285
					Job Reference (optional)

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950, 8.430 s Nov 30 2020 MiTek Industries, Inc. Sun Jan 31 14:44:37 2021 Page 1
ID:EUbcdRdSVPjz3PsjTVS_RMzJaSG-_owuTCj5QHBPelOE4bYTjdVAMOeWGMg78_aG4Izpox8

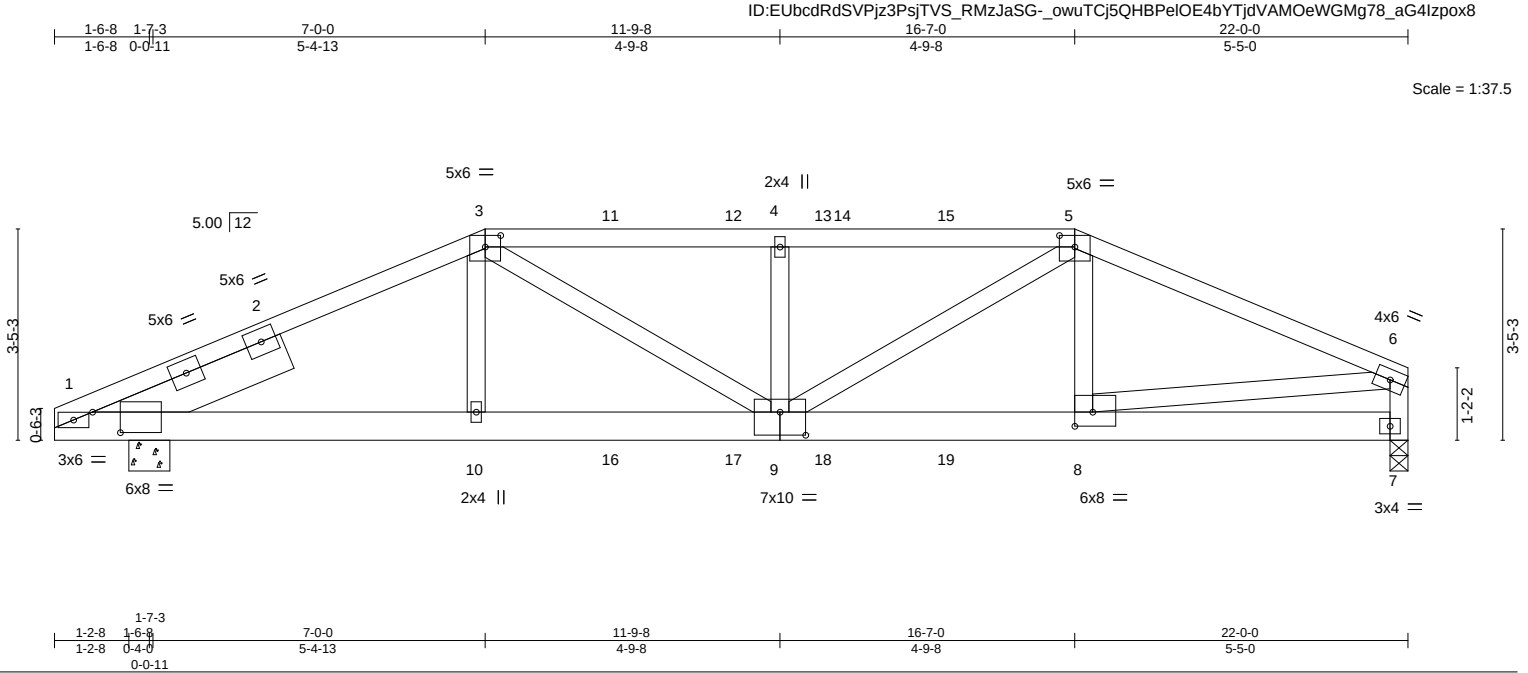


Plate Offsets (X,Y)-- [1:0-5-7,0-4-0], [3:0-3-0,0-2-4], [5:0-3-0,0-2-4], [8:0-3-8,0-2-12], [9:0-5-0,0-4-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.92	Vert(LL)	0.17	9	>999	240	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.60	Vert(CT)	-0.23	9	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.88	Horz(CT)	0.05	7	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 132 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x8 SP 2400F 2.0E -t 3-3-10

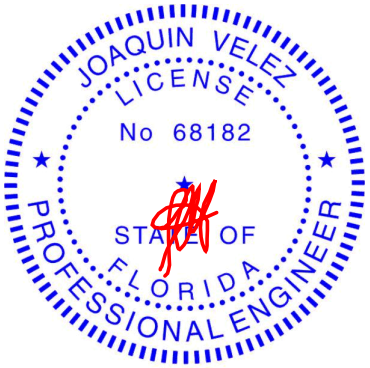
BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-0-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-2-4 oc bracing.

REACTIONS. (size) 1=0-8-0, 7=0-3-8
Max Horz 1=79(LC 7)
Max Uplift 1=-794(LC 8), 7=-849(LC 8)
Max Grav 1=1674(LC 1), 7=1757(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-3354/1634, 3-4=-3509/1873, 4-5=-3509/1873, 5-6=-2890/1478, 6-7=-1677/856
BOT CHORD 1-10=-1423/2970, 9-10=-1426/2958, 8-9=-1319/2599, 7-8=-168/305
WEBS 3-10=0/416, 3-9=-431/767, 4-9=-746/630, 5-9=-565/1116, 5-8=-195/284, 6-8=-1191/2320

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=25ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); cantilever left 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * 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) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=794, 7=849.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 257 lb down and 467 lb up at 7-0-0, 107 lb down and 187 lb up at 9-0-12, 107 lb down and 187 lb up at 11-0-12, 107 lb down and 187 lb up at 12-6-4, and 107 lb down and 187 lb up at 14-6-4, and 313 lb down and 485 lb up at 16-7-0 on top chord, and 141 lb down and 29 lb up at 7-0-0, 60 lb down at 9-0-12, 60 lb down at 11-0-12, 60 lb down at 12-6-4, and 60 lb down at 14-6-4, and 141 lb down and 29 lb up at 16-6-4 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



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Continued on page 2

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LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-80, 3-5=-80, 5-6=-80, 1-7=-20
   Concentrated Loads (lb)
   Vert: 5=-257(B) 10=-87(B) 3=-257(B) 8=-87(B) 11=-107(B) 12=-107(B) 13=-107(B) 15=-107(B) 16=-41(B) 17=-41(B) 18=-41(B) 19=-41(B)

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Job	Truss	Truss Type	Qty	Ply	
2221_M_160_C_2020	B04	Hip	1	1	T22667286

Job Reference (optional)

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950, 8.430 s Nov 30 2020 MiTek Industries, Inc. Sun Jan 31 14:44:38 2021 Page 1

ID:EUbcdRdSVPjz3PsjTVS_RMzJaSG-S_UGhYkjBaJGGvzQeJ3iGq2Pdo0l?yXHMeJpckzpox7

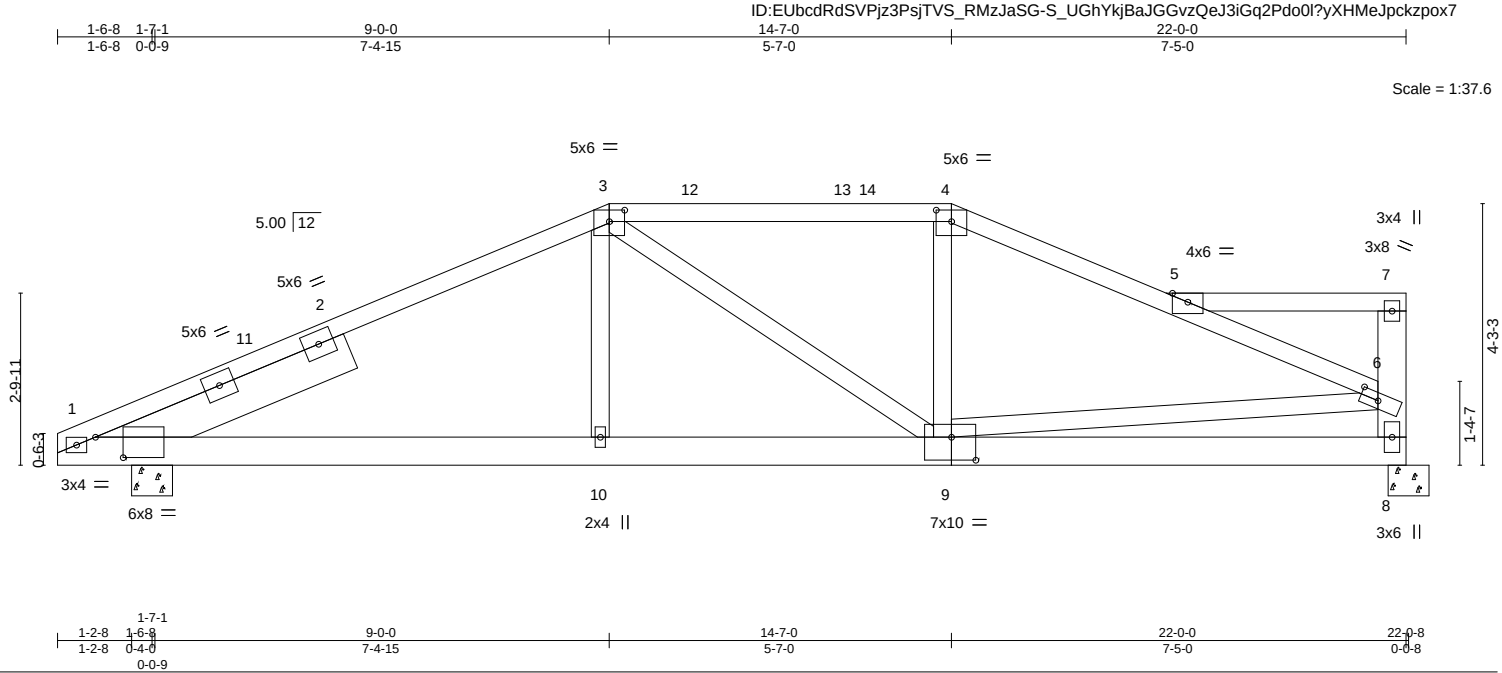


Plate Offsets (X,Y)-- [1:0-5-7,0-4-0], [3:0-3-0,0-2-4], [4:0-3-0,0-2-4], [6:0-3-8,0-1-8], [9:0-4-12,0-4-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.69	Vert(LL)	0.06	1-10	>999	240	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.47	Vert(CT)	-0.12	1-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 140 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except*
	1-3: 2x4 SP M 31
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3 *Except*
	7-8: 2x6 SP No.2
SLIDER	Left 2x8 SP 2400F 2.0E -t 4-4-10

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-2-4 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 8-1-1 oc bracing.

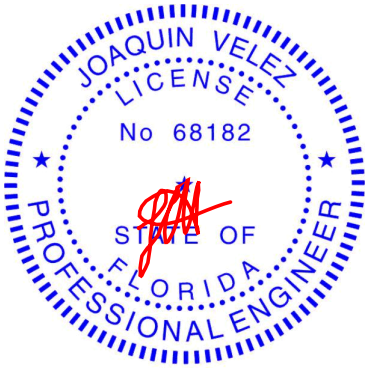
REACTIONS. (size) 8=0-8-0, 1=0-8-0
Max Horz 1=151(LC 12)
Max Uplift 8=-455(LC 9), 1=-400(LC 12)
Max Grav 8=1072(LC 1), 1=1072(LC 1)

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

TOP CHORD	1-3=-1815/804, 3-4=-1356/745, 4-5=-1483/728, 5-6=-1838/988, 6-8=-989/531, 5-7=-267/319
BOT CHORD	1-10=-759/1521, 9-10=-760/1513, 8-9=-569/836
WEBS	3-10=0/335, 3-9=-291/156, 6-9=-151/706

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=25ft; B=45ft; L=24ft; eave=5ft; 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 9-0-0, Exterior(2R) 9-0-0 to 13-2-15, Interior(1) 13-2-15 to 14-7-0, Exterior(2E) 14-7-0 to 18-0-11, Interior(1) 18-0-11 to 21-9-4 zone; cantilever left 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.
6) * 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) 8=455, 1=400.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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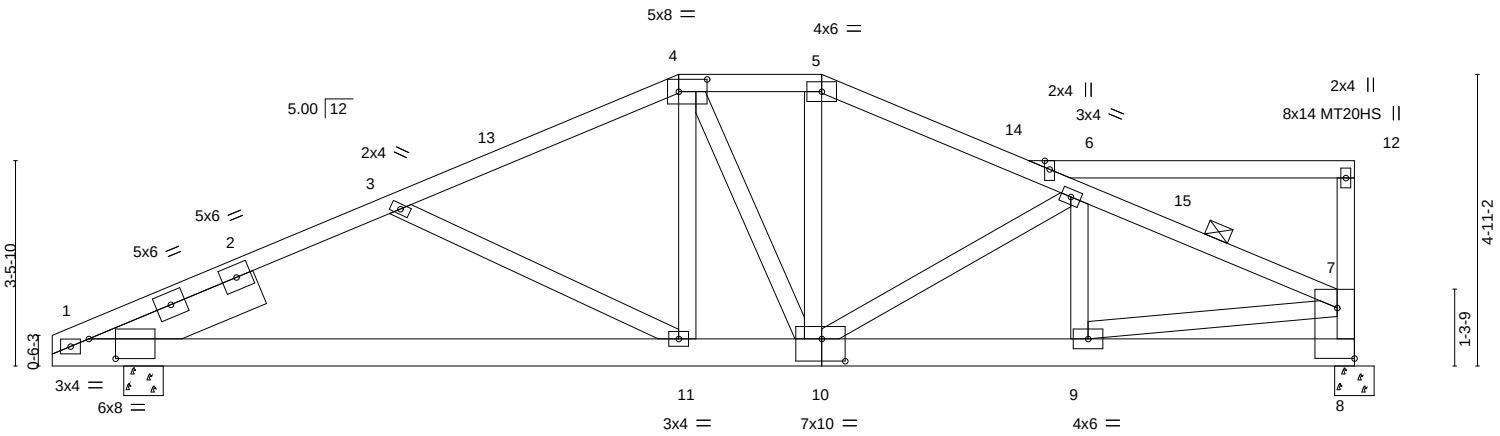
Job	Truss	Truss Type	Qty	Ply	
2221_M_160_C_2020	B05	Roof Special	1	1	T22667287
					Job Reference (optional)

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950, 8.430 s Nov 30 2020 MiTek Industries, Inc. Sun Jan 31 14:44:39 2021 Page 1
ID:EUbcdRdSVPjz3PsjTVS_RMzJaSG-wB2euulLyuS7u3YdC0axo2aeiCL5kLNQbI3N8Bzpox6

1-6-8	6-0-12	10-7-0	13-0-0	16-6-0	17-4-4	22-0-0
1-6-8	4-6-4	4-6-4	2-5-0	3-6-0	0-10-4	4-7-12

Scale = 1:38.9



1-2-8	1-6-8	10-7-0	13-0-0	16-6-0	17-4-4	22-0-0	22-4-0
1-2-8	0-4-0	9-0-8	2-5-0	3-6-0	0-10-4	4-7-12	0-4-0

Plate Offsets (X,Y)-- [1:0-5-7,0-4-0], [4:0-5-12,0-2-8], [7:Edge,0-3-8], [10:0-4-12,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.42	Vert(LL)	-0.08	1-11	>999	240	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.53	Vert(CT)	-0.20	1-11	>999	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 152 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3
SLIDER	Left 2x8 SP 2400F 2.0E -t 3-0-0

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-2-2 oc purlins, except end verticals. Except: 4-5-0 oc bracing: 6-7
BOT CHORD	Rigid ceiling directly applied or 7-4-14 oc bracing.

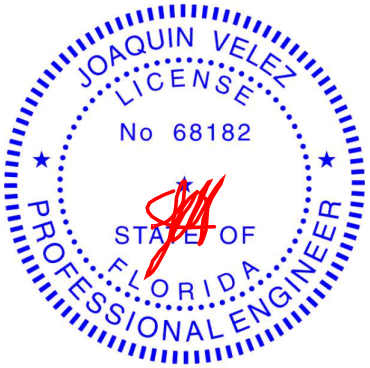
REACTIONS. (size) 8=0-8-0, 1=0-8-0
Max Horz 1=120(LC 11)
Max Uplift 8=-411(LC 12), 1=-409(LC 12)
Max Grav 8=1076(LC 1), 1=1076(LC 1)

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

TOP CHORD	1-3=-1961/1124, 3-4=-1498/848, 4-5=-1248/851, 5-6=-1428/871, 6-7=-1627/874, 7-8=-1005/582
BOT CHORD	1-11=-987/1724, 10-11=-580/1320, 9-10=-729/1443
WEBS	3-11=-478/457, 4-11=-59/516, 5-10=-146/292, 6-10=-270/196, 7-9=-623/1277

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=25ft; B=45ft; L=24ft; 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 10-7-0, Exterior(2E) 10-7-0 to 13-0-0, Exterior(2R) 13-0-0 to 16-0-0, Interior(1) 16-0-0 to 21-10-4 zone; cantilever left 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) 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.
7) * 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) 8=411, 1=409.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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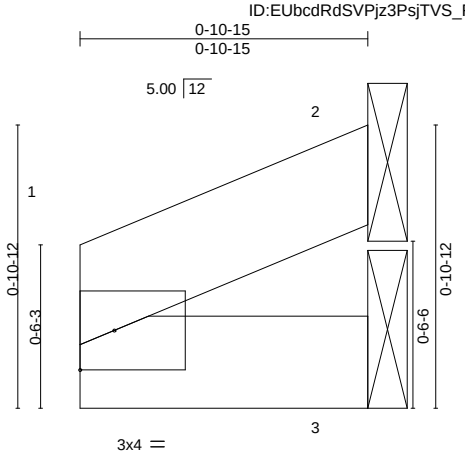
Job	Truss	Truss Type	Qty	Ply	
2221_M_160_C_2020	CJ1	Jack-Open	16	1	T22667288
					Job Reference (optional)

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950, 8.430 s Nov 30 2020 MiTek Industries, Inc. Sun Jan 31 14:44:39 2021 Page 1
ID:EUbcdRdSVPjz3PsjTVS_RMzJaSG-wB2euulLyuS7u3YdC0axo2akWCTrkSzQbI3N8Bzpox6



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.04	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	-0.00	3	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-P							Weight: 3 lb	FT = 20%

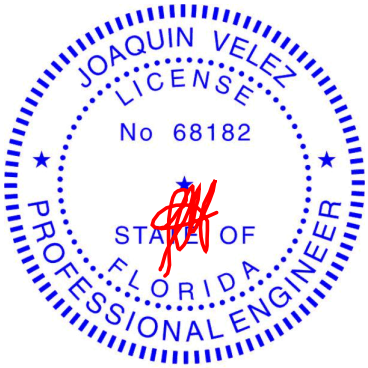
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 0-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 2=Mechanical, 3=Mechanical
Max Horz 2=69(LC 1), 3=74(LC 12)
Max Uplift 2=-73(LC 12)
Max Grav 2=90(LC 1)

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=25ft; B=45ft; L=24ft; eave=5ft; 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * 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) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.



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Job	Truss	Truss Type	Qty	Ply	
2221_M_160_C_2020	CJ3	Jack-Open	14	1	T22667289
					Job Reference (optional)

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950, 8.430 s Nov 30 2020 MiTek Industries, Inc. Sun Jan 31 14:44:40 2021 Page 1
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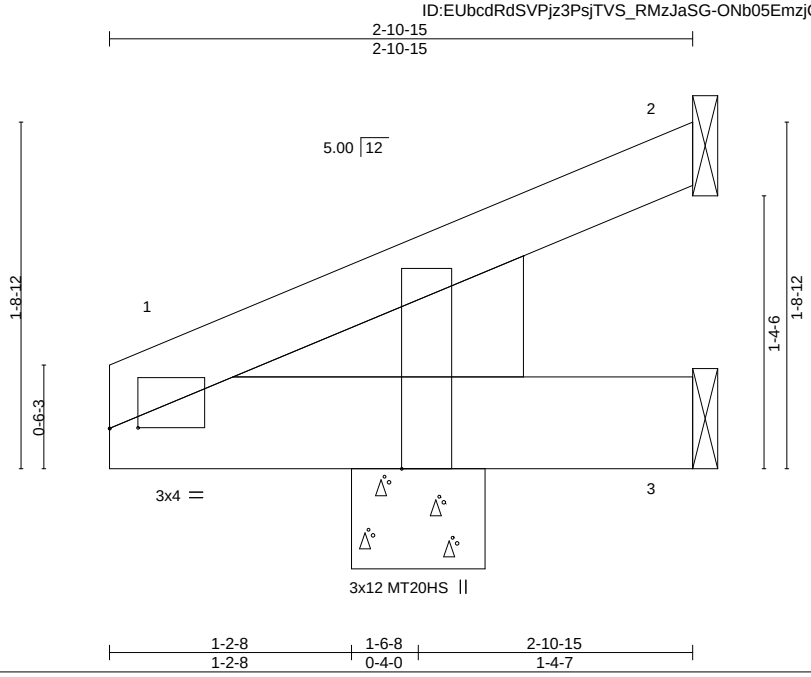


Plate Offsets (X,Y)-- [1:0-1-11,0-0-1], [1:0-2-7,Edge]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.22	Vert(LL)	-0.00	1	>999	240	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	-0.00	1-3	>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: 16 lb	FT = 20%

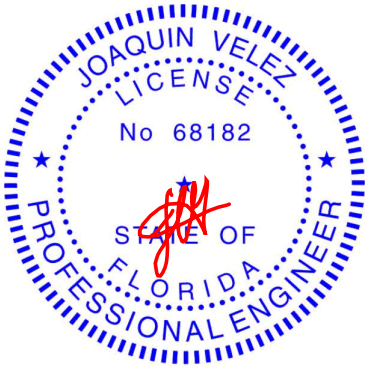
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEDGE
Left: 2x8 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=Mechanical, 3=Mechanical, 1=0-8-0
Max Horz 1=82(LC 12)
Max Uplift 2=-84(LC 12), 1=-27(LC 12)
Max Grav 2=101(LC 1), 3=50(LC 3), 1=126(LC 1)

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=25ft; B=45ft; L=24ft; eave=5ft; 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.
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) 2, 1.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
February 1,2021

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
2221_M_160_C_2020	CJ3A	Jack-Open	1	1	T22667290
					Job Reference (optional)

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950, 8.430 s Nov 30 2020 MiTek Industries, Inc. Sun Jan 31 14:44:40 2021 Page 1
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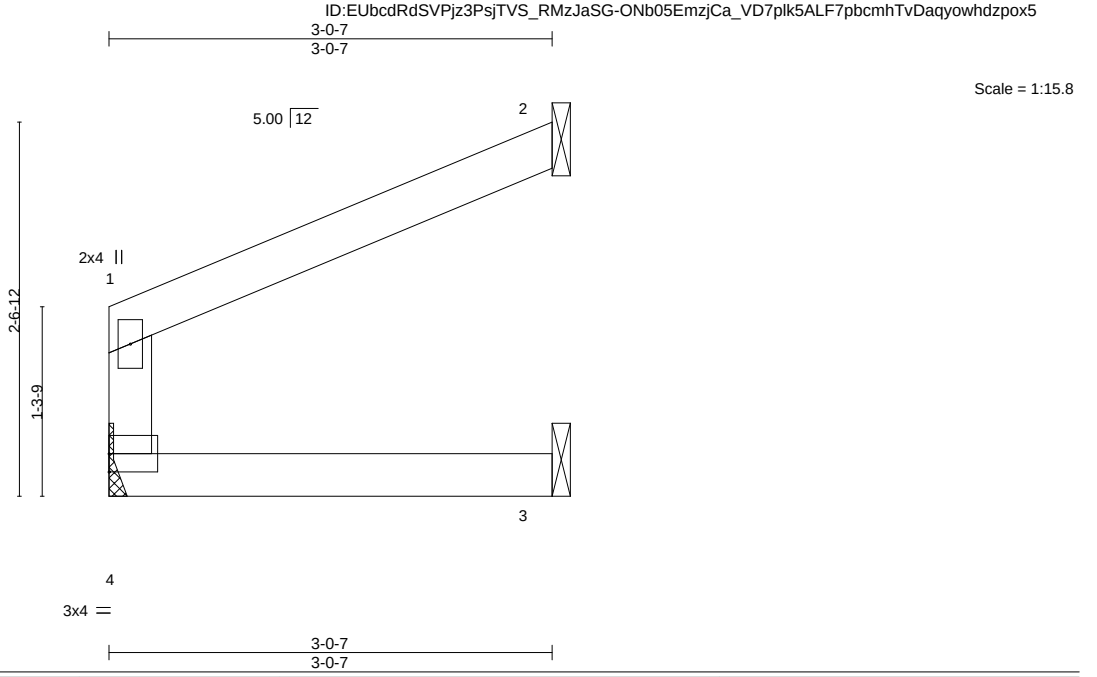


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.41	Vert(LL)	0.01	3-4	>999	240	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.25	Vert(CT)	-0.01	3-4	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.03	2	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-R							Weight: 11 lb	FT = 20%

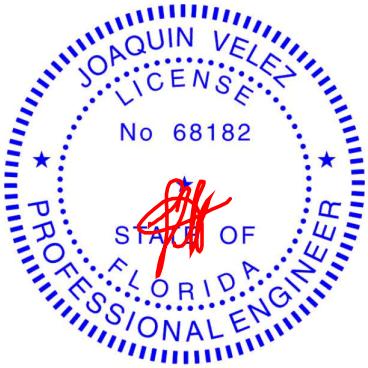
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-0-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=Mechanical, 3=Mechanical
Max Horz 4=73(LC 12)
Max Uplift 4=-11(LC 12), 2=-91(LC 12), 3=-5(LC 12)
Max Grav 4=141(LC 1), 2=106(LC 1), 3=57(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=25ft; B=45ft; L=24ft; eave=5ft; 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * 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) Refer to girder(s) for truss to truss connections.
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) 4, 2, 3.



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Job	Truss	Truss Type	Qty	Ply	
2221_M_160_C_2020	CJ3B	Jack-Open	2	1	T22667291
					Job Reference (optional)

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950, 8.430 s Nov 30 2020 MiTek Industries, Inc. Sun Jan 31 14:44:41 2021 Page 1
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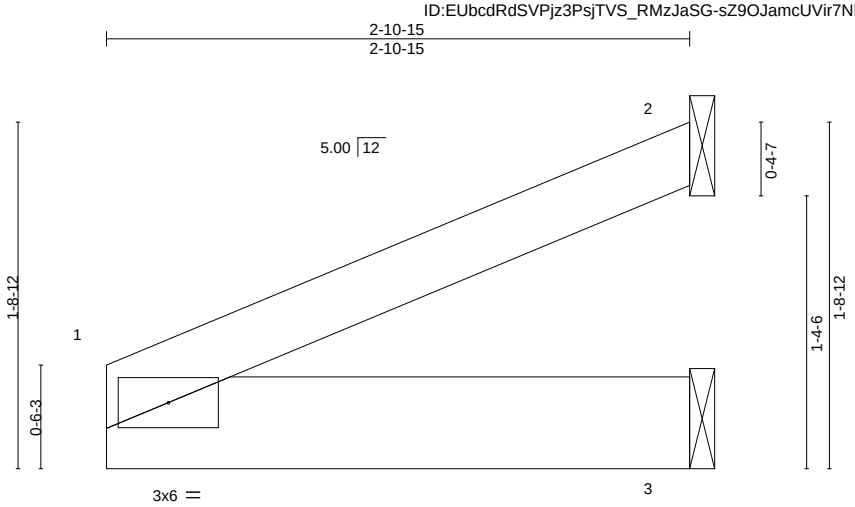


PROVIDE ANCHORAGE, DESIGNED BY OTHERS,
AT BEARINGS TO RESIST MAX. UPLIFT
AND MAX HORZ. REACTIONS
SPECIFIED BELOW.

2-10-15
2-10-15

LOADING (psf)		**SPACING-** 2-0-0		**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.25	TC	0.41	Vert(LL)	-0.00	3	n/r	120	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.15	Vert(CT)	-0.09	3	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-P							Weight: 12 lb	FT = 20%

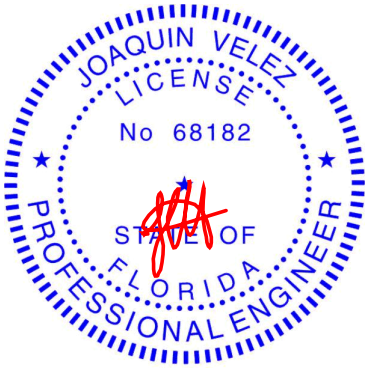
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 2=Mechanical, 3=Mechanical
Max Horz 2=308(LC 1), 3=-308(LC 1)
Max Uplift 2=-231(LC 12)
Max Grav 2=285(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-386/390
BOT CHORD 1-3=-308/441

NOTES-
1) Wind: ASCE 7-16; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=5ft; 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * 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) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=231.



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Job	Truss	Truss Type	Qty	Ply	
2221_M_160_C_2020	CJ5	Jack-Open	5	1	T22667292
					Job Reference (optional)

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950, 8.430 s Nov 30 2020 MiTek Industries, Inc. Sun Jan 31 14:44:42 2021 Page 1
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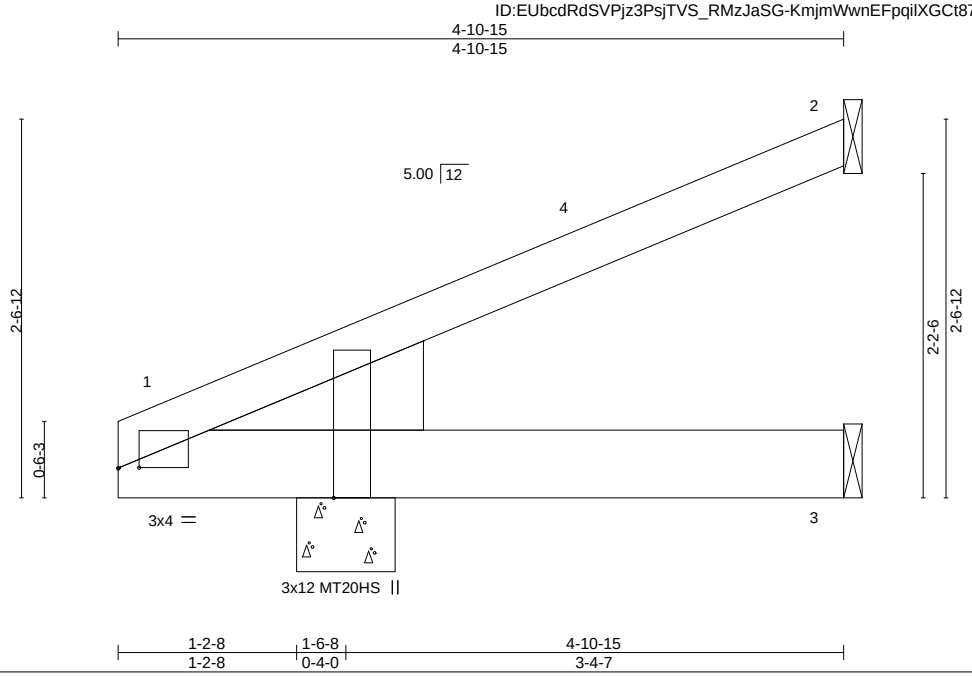


Plate Offsets (X,Y)-- [1:0-1-11,0-0-1], [1:0-2-7,Edge]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.76	Vert(LL)	-0.01	1-3	>999	240	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.10	Vert(CT)	-0.01	1-3	>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: 24 lb	FT = 20%

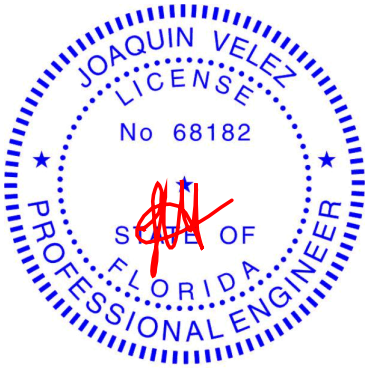
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEDGE
Left: 2x8 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=Mechanical, 3=Mechanical, 1=0-8-0
Max Horz 1=134(LC 12)
Max Uplift 2=-145(LC 12), 1=-54(LC 12)
Max Grav 2=181(LC 1), 3=90(LC 3), 1=226(LC 1)

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=25ft; B=45ft; L=24ft; eave=5ft; 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 4-10-3 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.
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) 1 except (jt=lb) 2=145.



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Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
2221_M_160_C_2020	CJ5A	Jack-Open	2	1	T22667293
					Job Reference (optional)

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950, 8.430 s Nov 30 2020 MiTek Industries, Inc. Sun Jan 31 14:44:42 2021 Page 1
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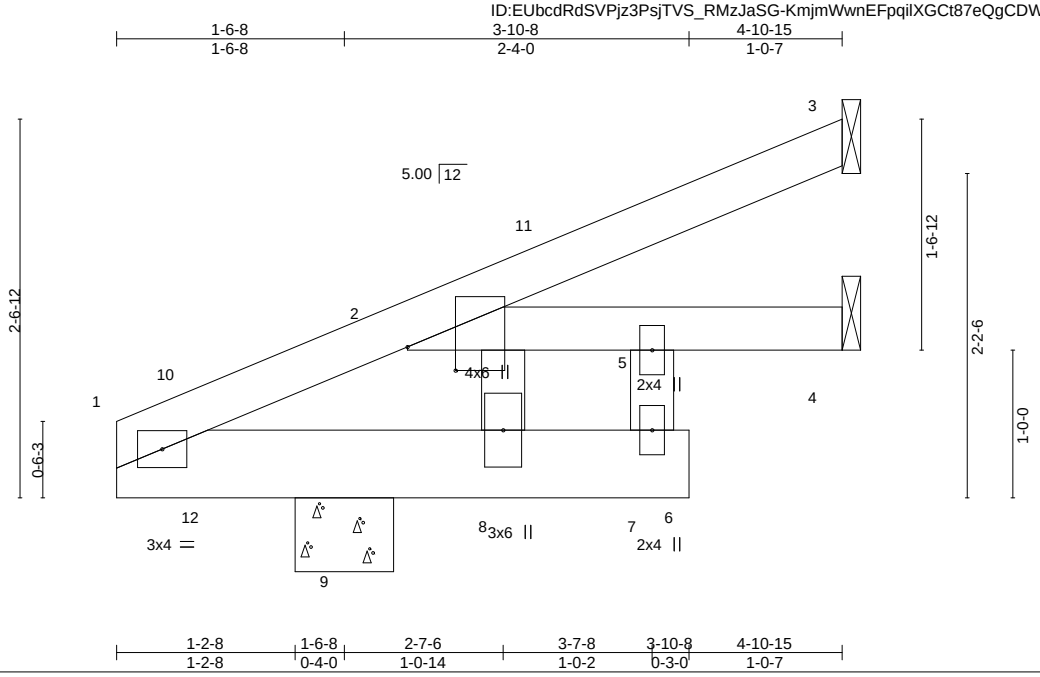


Plate Offsets (X,Y)-- [2:0-1-15,0-3-14]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.19	Vert(LL)	-0.01	7	>999	240	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.20	Vert(CT)	-0.02	6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 23 lb	FT = 20%

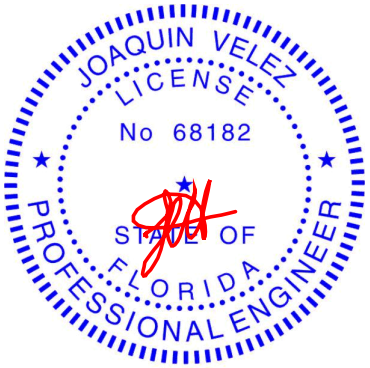
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
1-6: 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 4=Mechanical, 9=0-8-0
Max Horz 9=134(LC 12)
Max Uplift 3=-71(LC 12), 9=-160(LC 12)
Max Grav 3=98(LC 1), 4=80(LC 3), 9=379(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 8-9=-258/210
WEBS 2-8=-348/427

NOTES-
1) Wind: ASCE 7-16; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=5ft; 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 4-10-3 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * 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) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 9=160.



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Job	Truss	Truss Type	Qty	Ply	
2221_M_160_C_2020	D5	Hip Girder	1	1	T22667294

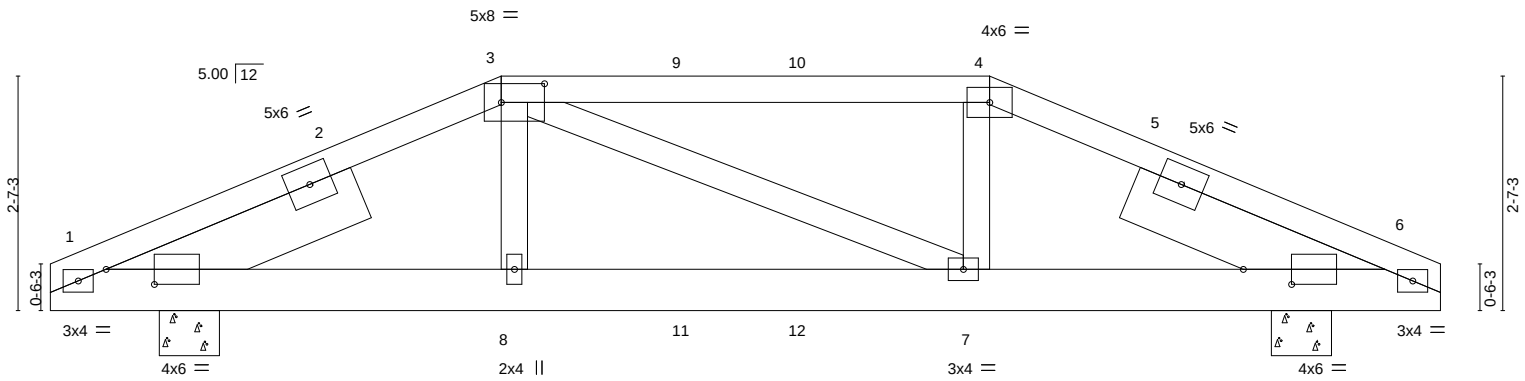
Job Reference (optional)

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950, 8.430 s Nov 30 2020 MiTek Industries, Inc. Sun Jan 31 14:44:43 2021 Page 1

ID:EUbcdRdSVPjz3PsjTVS_RMzJaSG-pyH9kGos07yZMgrORsftzulHSpn0gFv0Wv1aHyzpox2

1-6-8	5-0-0	10-5-0	13-10-8	15-5-0
1-6-8	3-5-8	5-5-0	3-5-8	1-6-8

Scale = 1:25.6



1-2-8	1-6-8	5-0-0	10-5-0	13-10-8	14-2-8	15-5-0
1-2-8	0-4-0	3-5-8	5-5-0	3-5-8	0-4-0	1-2-8

Plate Offsets (X,Y)-- [1:0-6-7,0-2-0], [3:0-5-12,0-2-8], [6:0-6-7,0-2-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.62	Vert(LL)	0.03	7-8	>999	240	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.21	Vert(CT)	-0.04	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.07	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 92 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3
SLIDER	Left 2x8 SP 2400F 2.0E -t 2-11-4, Right 2x8 SP 2400F 2.0E -t 2-11-4

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-10-1 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

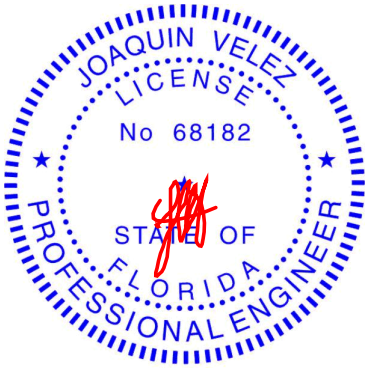
REACTIONS. (size) 1=0-8-0, 6=0-8-0
Max Horz 1=-61(LC 6)
Max Uplift 1=-309(LC 8), 6=-309(LC 8)
Max Grav 1=659(LC 1), 6=659(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1100/545, 3-4=-939/540, 4-6=-1095/541
BOT CHORD 1-8=-418/940, 7-8=-414/944, 6-7=-414/936

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=25ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); cantilever left and 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * 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=309, 6=309.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 236 lb up at 5-0-0, 99 lb up at 7-0-12, and 99 lb up at 8-4-4, and 236 lb up at 10-5-0 on top chord, and 54 lb up at 5-0-0, 2 lb down and 19 lb up at 7-0-12, and 2 lb down and 19 lb up at 8-4-4, and 54 lb up at 10-4-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
9) 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, 3-4=-80, 4-6=-80, 1-6=-20
Concentrated Loads (lb)
Vert: 3=17(F) 4=17(F) 8=45(F) 7=45(F) 9=5(F) 10=5(F) 11=11(F) 12=11(F)



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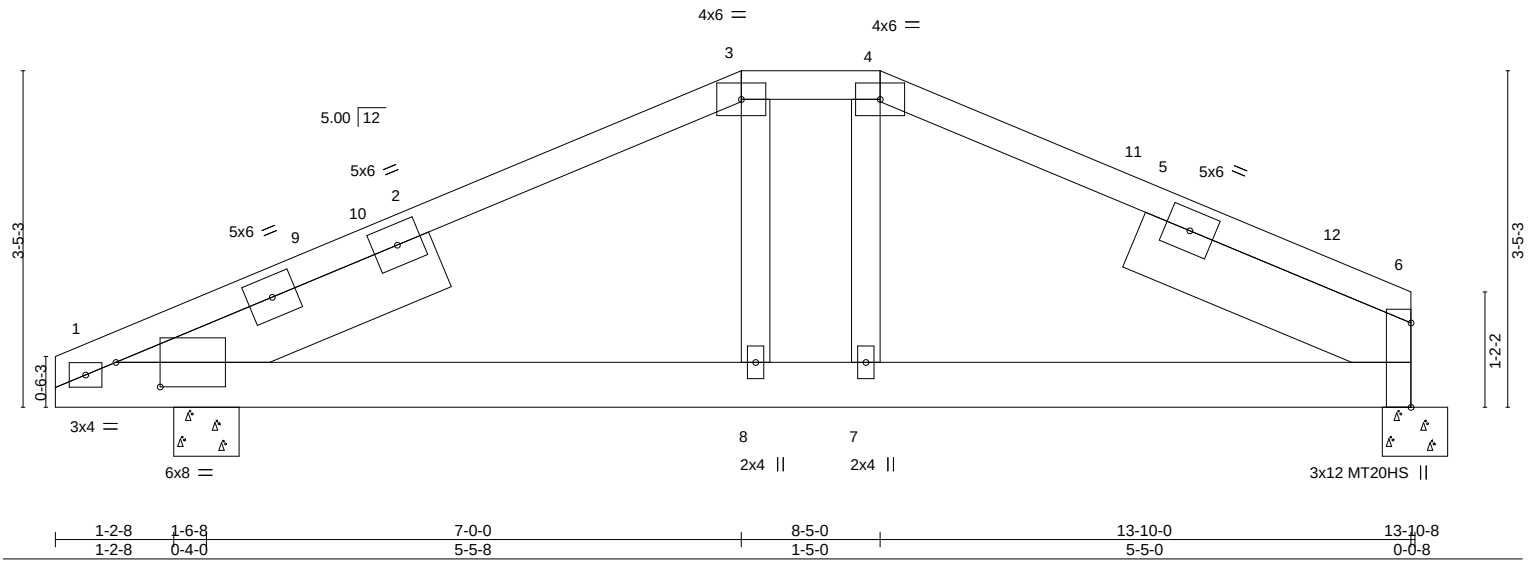
Job	Truss	Truss Type	Qty	Ply	
2221_M_160_C_2020	D6	Hip	1	1	T22667295
					Job Reference (optional)

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950, 8.430 s Nov 30 2020 MiTek Industries, Inc. Sun Jan 31 14:44:44 2021 Page 1
ID:EUbcdRdSVPjz3PsjTVS_RMzJaSG-H8rXxbpUmQ4Q_qQa_ZA6V5HR_D6uPib9lZm7qOzpox1

1-6-8	7-0-0	8-5-0	13-10-0
1-6-8	5-5-8	1-5-0	5-5-0

Scale = 1:23.5



1-2-8	1-6-8	7-0-0	8-5-0	13-10-0	13-10-8
1-2-8	0-4-0	5-5-8	1-5-0	5-5-0	0-0-8

Plate Offsets (X,Y)-- [1:0-5-7,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.70	Vert(LL)	-0.03	1-8	>999	240	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.30	Vert(CT)	-0.07	1-8	>999	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 83 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3
SLIDER	Left 2x8 SP 2400F 2.0E -t 3-5-8, Right 2x8 SP 2400F 2.0E -t 3-1-1

BRACING-

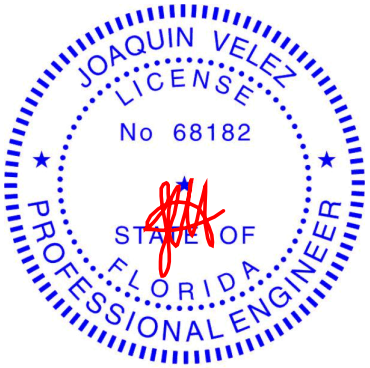
TOP CHORD	Structural wood sheathing directly applied or 4-4-5 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=0-8-0, 1=0-8-0
Max Horz 1=84(LC 11)
Max Uplift 6=-257(LC 12), 1=-257(LC 12)
Max Grav 6=675(LC 1), 1=675(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-983/609, 3-4=-809/657, 4-6=-984/651
BOT CHORD 1-8=-393/786, 7-8=-386/785, 6-7=-380/775
WEBS 4-7=-124/272

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=25ft; B=45ft; L=24ft; eave=5ft; 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, Exterior(2E) 7-0-0 to 8-5-0, Exterior(2R) 8-5-0 to 12-7-15, Interior(1) 12-7-15 to 13-10-0 zone; cantilever left 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) 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.
7) * 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) 6=257, 1=257.



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6904 Parke East Blvd. Tampa FL 33610
Date:
February 1,2021

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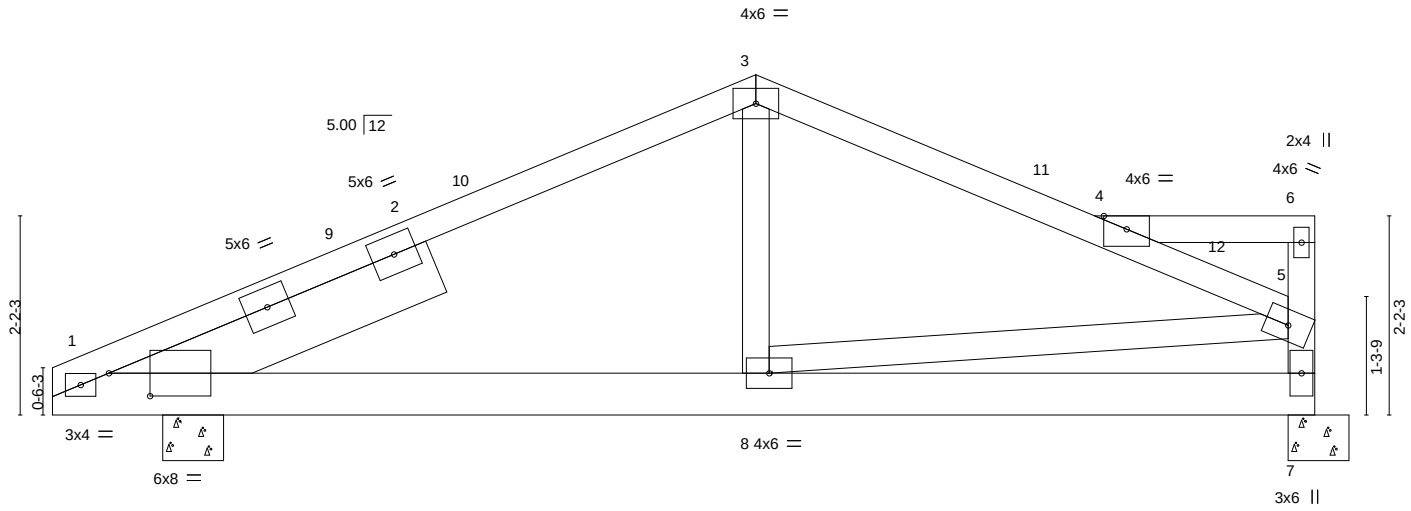
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
2221_M_160_C_2020	D7	Hip	1	1	T22667296
					Job Reference (optional)

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950, 8.430 s Nov 30 2020 MiTek Industries, Inc. Sun Jan 31 14:44:45 2021 Page 1
ID:EUbcdRdSVPjz3PsjTVS_RMzJaSG-IKPv9xp6XkCHc_?mYHhL2JqZ9dSo88iJzDWhMqzpox0

1-6-8 7-8-8 13-10-0
1-6-8 6-2-0 6-1-8

Scale = 1:25.2



1-2-8 1-6-8 7-8-8 13-10-0 13-10-8
1-2-8 0-4-0 6-2-0 6-1-8 0-0-8

Plate Offsets (X,Y)-- [1:0-5-7,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.87	Vert(LL)	0.04	1-8	>999	240	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.32	Vert(CT)	-0.06	1-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 85 lb	FT = 20%

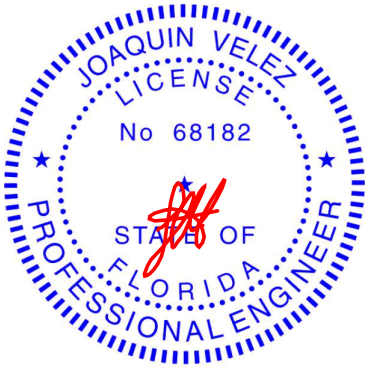
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
6-7: 2x4 SP No.2
SLIDER Left 2x8 SP 2400F 2.0E -t 3-9-2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-1-5 oc bracing.

REACTIONS. (size) 7=0-8-0, 1=0-8-0
Max Horz 1=112(LC 12)
Max Uplift 7=-262(LC 12), 1=-247(LC 12)
Max Grav 7=668(LC 1), 1=668(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-951/618, 3-4=-829/640, 4-5=-1040/856, 5-7=-623/517
BOT CHORD 1-8=-547/749, 7-8=-414/416
WEBS 3-8=0/268, 5-8=-222/462

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=25ft; B=45ft; L=24ft; eave=5ft; 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 7-8-8, Exterior(2R) 7-8-8 to 10-8-8, Interior(1) 10-8-8 to 13-8-4 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.
6) * 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) 7=262, 1=247.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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February 1,2021

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Job	Truss	Truss Type	Qty	Ply	
2221_M_160_C_2020	D8	Hip	1	1	T22667297
					Job Reference (optional)

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950, 8.430 s Nov 30 2020 MiTek Industries, Inc. Sun Jan 31 14:44:45 2021 Page 1
ID:EUbcdRdSVPjz3PsjTVS_RMzJaSG-lKPv9xp6XkCHc_?mYHhL2JqZMdSs850JzDWhMqzpox0

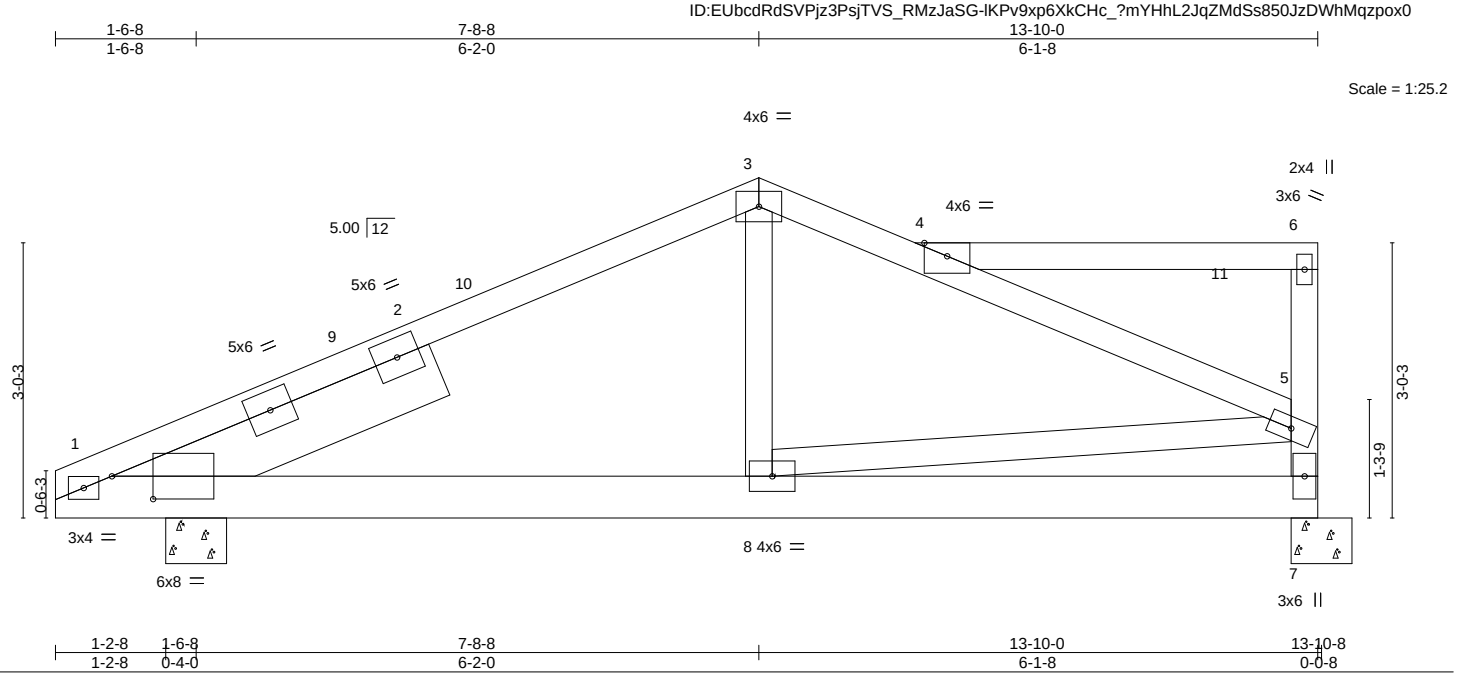


Plate Offsets (X,Y)-- [1:0-5-7,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.85	Vert(LL)	0.04	1-8	>999	240	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.31	Vert(CT)	-0.06	1-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 89 lb	FT = 20%

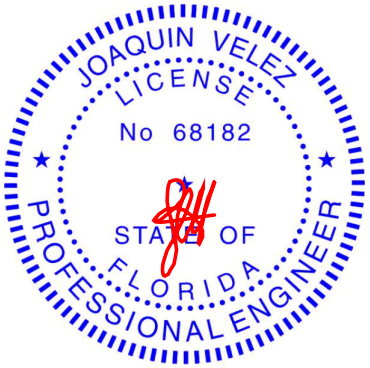
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x8 SP 2400F 2.0E -t 3-9-2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-11-7 oc bracing.

REACTIONS. (size) 7=0-8-0, 1=0-8-0
Max Horz 1=164(LC 12)
Max Uplift 7=-278(LC 9), 1=-238(LC 12)
Max Grav 7=668(LC 1), 1=668(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-954/564, 3-4=-770/607, 4-5=-814/636, 5-7=-623/523
BOT CHORD 1-8=-595/753
WEBS 3-8=0/252, 5-8=-505/592

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=25ft; B=45ft; L=24ft; eave=5ft; 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 7-8-8, Exterior(2E) 7-8-8 to 9-4-11, Interior(1) 9-4-11 to 13-8-4 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.
6) * 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) 7=278, 1=238.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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Job	Truss	Truss Type	Qty	Ply	
2221_M_160_C_2020	D9	Hip	1	1	T22667298
					Job Reference (optional)

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950, 8.430 s Nov 30 2020 MiTek Industries, Inc. Sun Jan 31 14:44:46 2021 Page 1
ID:EUbcdRdSVPjz3PsjTVS_RMzJaSG-DXzHMHqkI2K8D8az6_CaaWNk41o4tX5SCtFEuHzpox?

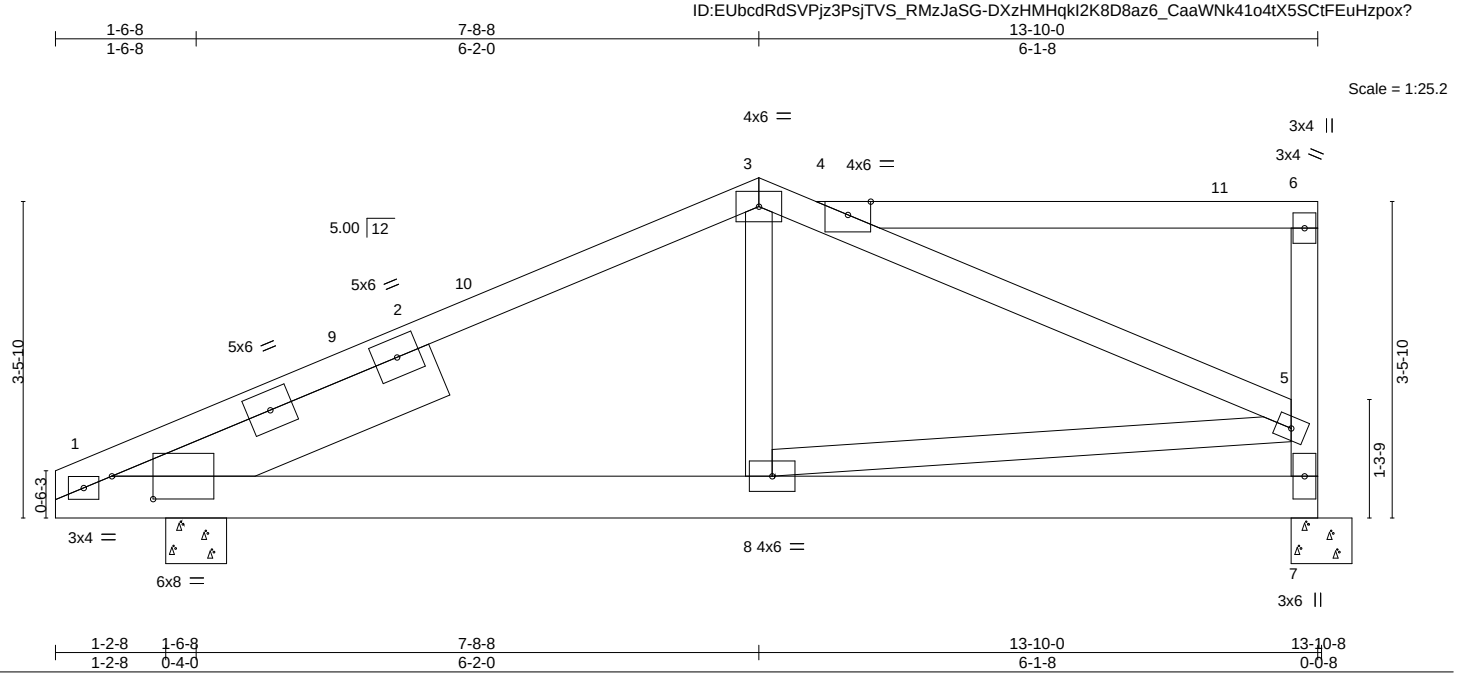


Plate Offsets (X,Y)-- [1:0-5-7,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.86	Vert(LL)	0.04	1-8	>999	240	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.31	Vert(CT)	-0.06	1-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 91 lb	FT = 20%

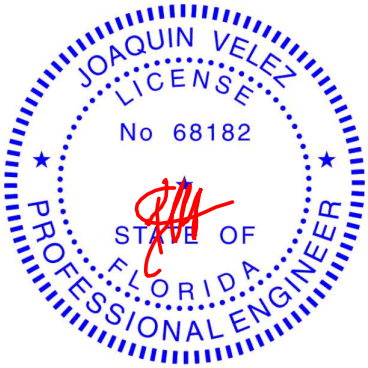
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x8 SP 2400F 2.0E -t 3-9-2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-9-11 oc bracing.

REACTIONS. (size) 7=0-8-0, 1=0-8-0
Max Horz 1=192(LC 12)
Max Uplift 7=-308(LC 9), 1=-232(LC 12)
Max Grav 7=668(LC 1), 1=668(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-953/543, 3-4=-729/586, 4-5=-768/620, 5-7=-624/532
BOT CHORD 1-8=-615/751
WEBS 5-8=-614/693

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=25ft; B=45ft; L=24ft; eave=5ft; 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 7-8-8, Exterior(2E) 7-8-8 to 8-3-10, Interior(1) 8-3-10 to 13-8-4 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.
6) * 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) 7=308, 1=232.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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February 1,2021

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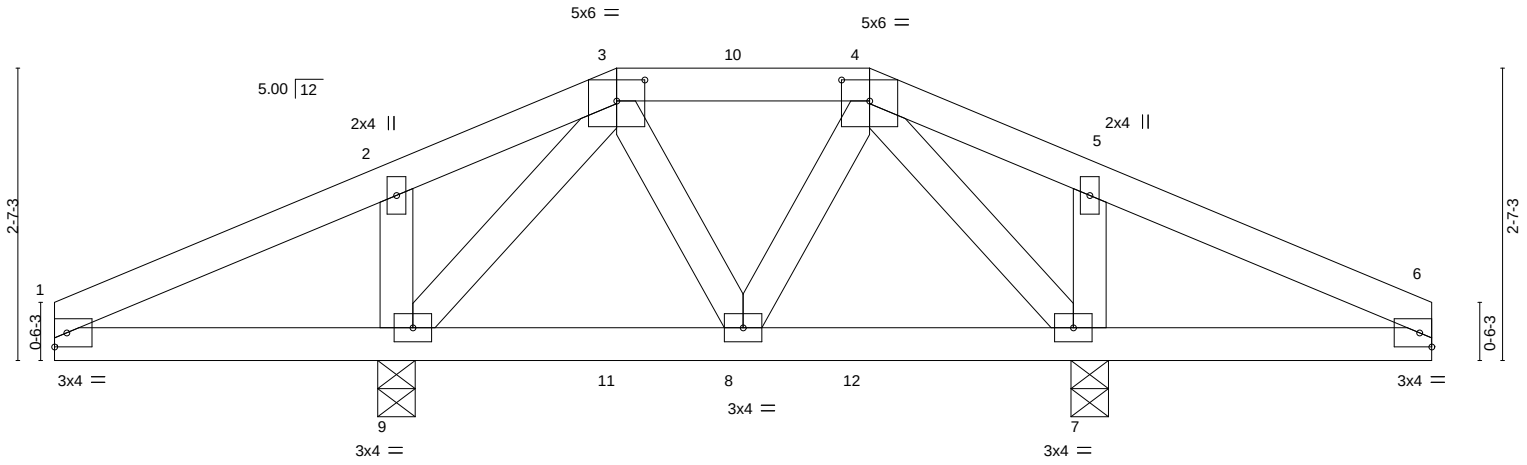
Job	Truss	Truss Type	Qty	Ply	
2221_M_160_C_2020	E1	Hip Girder	1	1	T22667299
					Job Reference (optional)

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950, 8.430 s Nov 30 2020 MiTek Industries, Inc. Sun Jan 31 14:44:47 2021 Page 1
ID:EUbcdRdSVPjz3PsjTVS_RMzJaSG-hjXfZdrM3LS?rI99gijp7kv3UQ7Zc26cRX?oQjzpox_

3-0-8	5-0-0	7-3-0	9-2-8	12-3-0
3-0-8	1-11-8	2-3-0	1-11-8	3-0-8

Scale = 1:20.5



2-10-8	3-0-8	6-1-8	9-2-8	9-4-8	12-3-0
2-10-8	0-2-0	3-1-0	3-1-0	0-2-0	2-10-8

Plate Offsets (X,Y)-- [3:0-3-0,0-2-4], [4:0-3-0,0-2-4]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.24	Vert(LL)	0.01	7-8	>999	240	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.30	Vert(CT)	0.02	8-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.18	Horz(CT)	-0.01	7	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 57 lb	FT = 20%

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

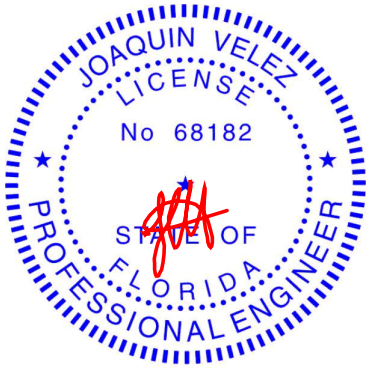
BRACING-
TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 9=0-4-0, 7=0-4-0
Max Horz 9=64(LC 7)
Max Uplift 9=-791(LC 8), 7=-741(LC 9)
Max Grav 9=392(LC 17), 7=397(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-200/351, 2-3=-97/302, 3-4=0/632, 4-5=-79/300, 5-6=-151/349
BOT CHORD 1-9=-262/212, 8-9=-518/0, 7-8=-508/0, 6-7=-260/156
WEBS 2-9=-265/209, 3-9=-136/611, 3-8=-336/0, 4-8=-337/0, 4-7=-134/613, 5-7=-264/190

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=25ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; porch left and 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * 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) 9=791, 7=741.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 246 lb up at 5-0-0, and 29 lb down and 138 lb up at 6-1-8, and 246 lb up at 7-3-0 on top chord, and 313 lb up at 5-0-0, and 14 lb down and 41 lb up at 6-1-8, and 313 lb up at 7-2-3 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
9) 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, 3-4=-80, 4-6=-80, 1-6=-20
Concentrated Loads (lb)
Vert: 3=38(B) 4=38(B) 8=-6(B) 10=-29(B) 11=215(B) 12=215(B)



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Date:
February 1,2021

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Job	Truss	Truss Type	Qty	Ply	
2221_M_160_C_2020	E2	Common	1	1	T22667300
					Job Reference (optional)

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950, 8.430 s Nov 30 2020 MiTek Industries, Inc. Sun Jan 31 14:44:48 2021 Page 1
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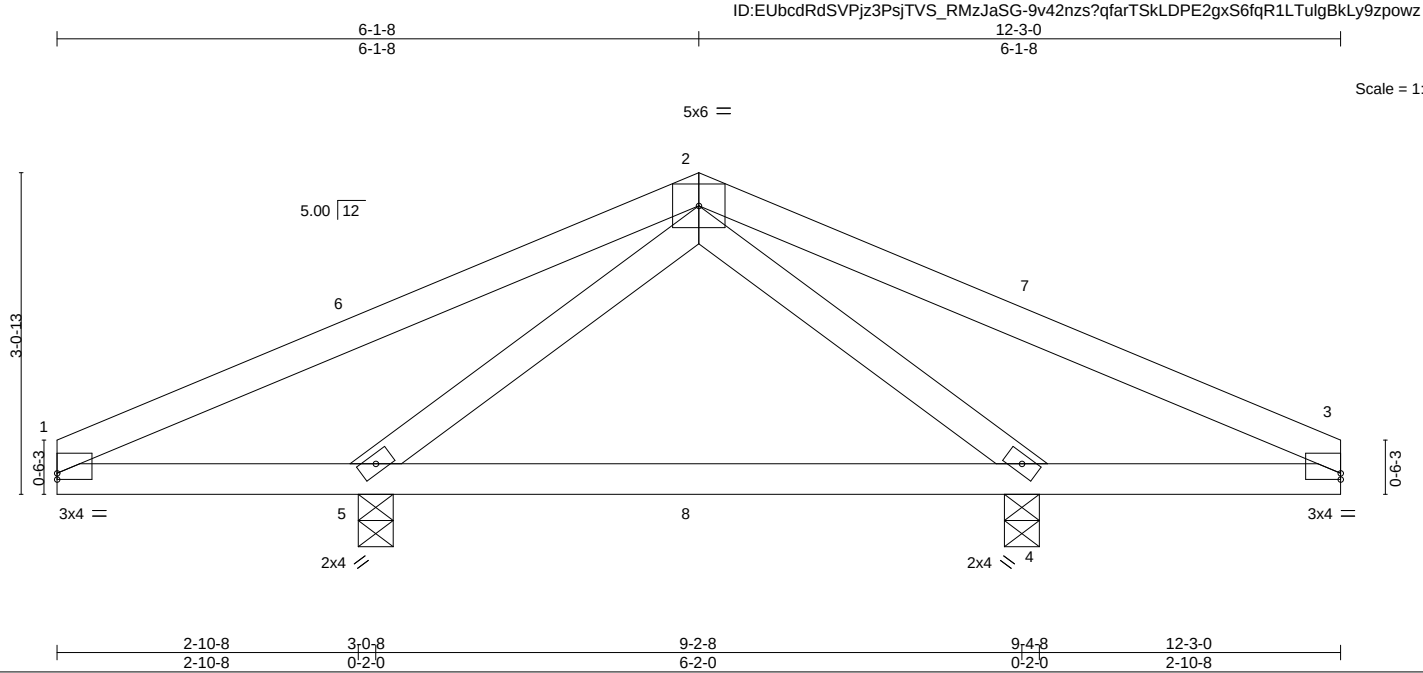


Plate Offsets (X,Y)-- [1:0-0-0,0-0-11], [3:0-0-0,0-0-11]

LOADING (psf)		SPACING- 2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.25	TC	0.72	Vert(LL)	0.08	4-5	>926	240	MT20	244/190
TCDL	20.0	Lumber DOL 1.25	BC	0.41	Vert(CT)	-0.06	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr YES	WB	0.28	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014	Matrix-S							Weight: 51 lb	FT = 20%

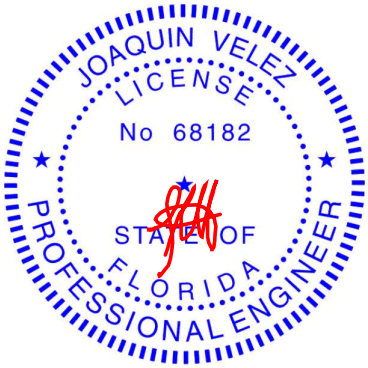
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-5-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 5=0-4-0, 4=0-4-0
Max Horz 5=76(LC 11)
Max Uplift 5=-523(LC 12), 4=-408(LC 9)
Max Grav 5=613(LC 1), 4=613(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-652/583, 2-3=-649/583
BOT CHORD 1-5=-449/712, 3-4=-449/709
WEBS 2-5=-694/928, 2-4=-694/924

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=25ft; B=45ft; L=24ft; eave=5ft; 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 6-1-8, Exterior(2R) 6-1-8 to 9-1-8, Interior(1) 9-1-8 to 12-3-0 zone; cantilever left and right exposed ; porch 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) 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) 5=523, 4=408.



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February 1,2021

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Job	Truss	Truss Type	Qty	Ply	T22667301
2221_M_160_C_2020	EJ5	Jack-Open	3	1	Job Reference (optional)

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950, 8.430 s Nov 30 2020 MiTek Industries, Inc. Sun Jan 31 14:44:48 2021 Page 1
ID:EUbcdRdSVPjz3PsjTVS_RMzJaSG-9v42nzs?qfarTSkLDPE2gxS5dqWnLXClgBkLy9zpowz

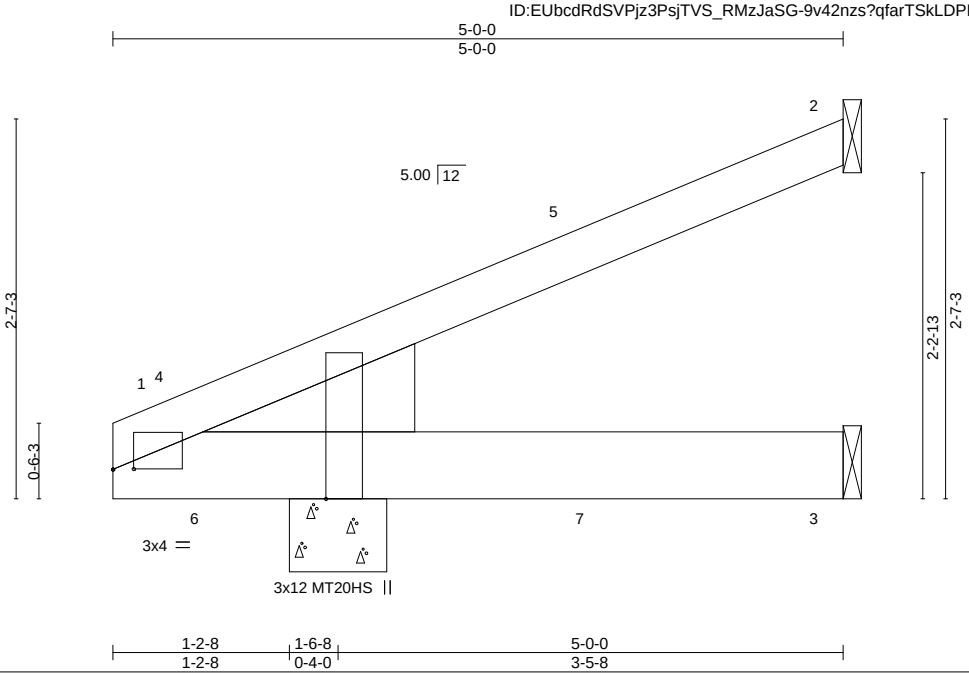


Plate Offsets (X,Y)-- [1:0-1-11,0-0-1], [1:0-2-7,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.79	Vert(LL)	0.01	1-3	>999	240	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	-0.01	1-3	>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: 24 lb	FT = 20%

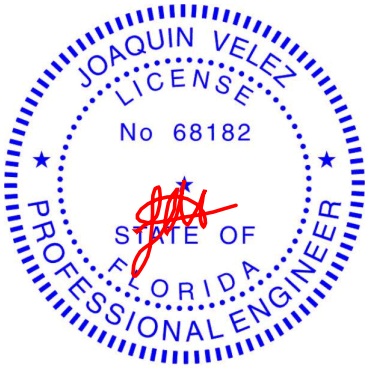
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEDGE
Left: 2x8 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=Mechanical, 3=Mechanical, 1=0-8-0
Max Horz 1=136(LC 12)
Max Uplift 2=-148(LC 12), 3=-71(LC 8), 1=-154(LC 12)
Max Grav 2=184(LC 1), 3=92(LC 3), 1=230(LC 1)

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=25ft; B=45ft; L=24ft; eave=5ft; 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 4-11-4 zone; cantilever left and right exposed ; porch 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.
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 except (jt=lb) 2=148, 1=154.



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Job	Truss	Truss Type	Qty	Ply	
2221_M_160_C_2020	EJ5A	Jack-Open	4	1	T22667302

Job Reference (optional)

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950, 8.430 s Nov 30 2020 MiTek Industries, Inc. Sun Jan 31 14:44:49 2021 Page 1
ID:EUbcdRdSVPjz3PsjTVS_RMzJaSG-d6eQ_Jsdbzii4bJYn7IHC9?I0Es04_SuurUuUczpowy

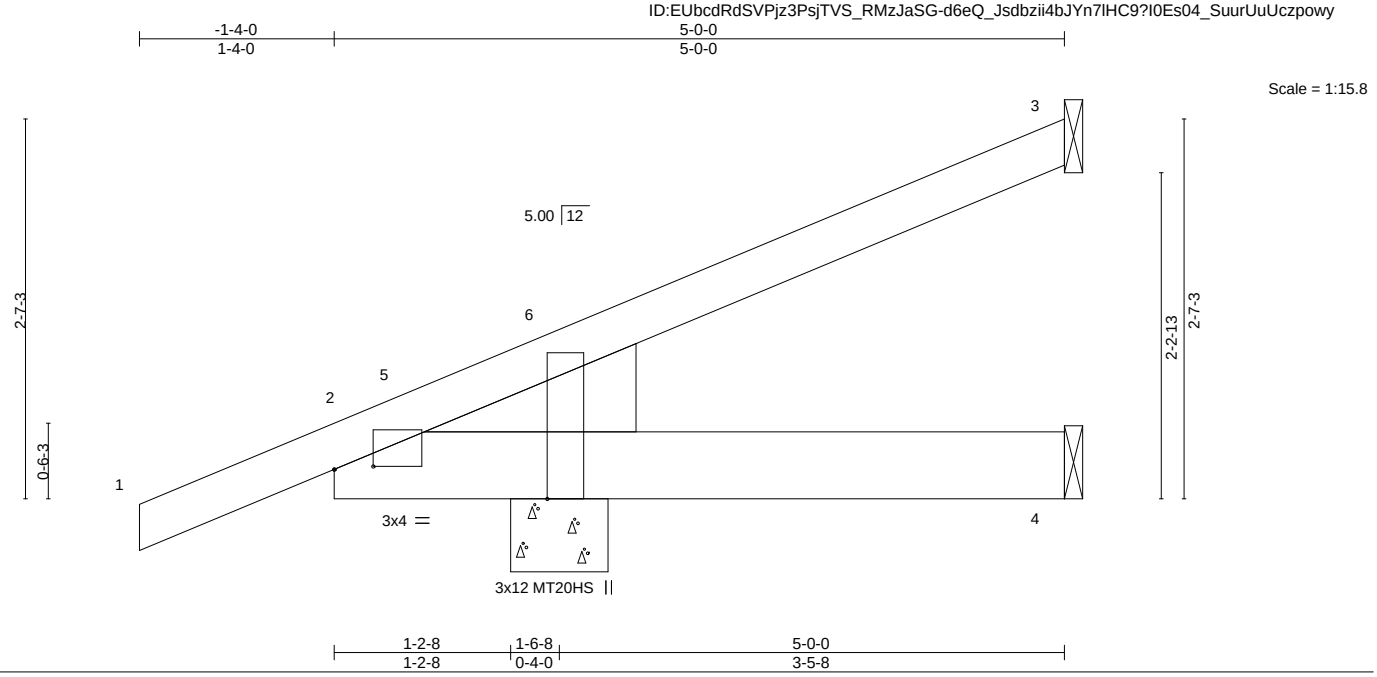


Plate Offsets (X,Y)-- [2:0-3-3,0-0-4], [2:0-2-7,Edge]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.68	Vert(LL)	-0.01	2-4	>999	240	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	-0.01	2-4	>999	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-P							Weight: 27 lb	FT = 20%

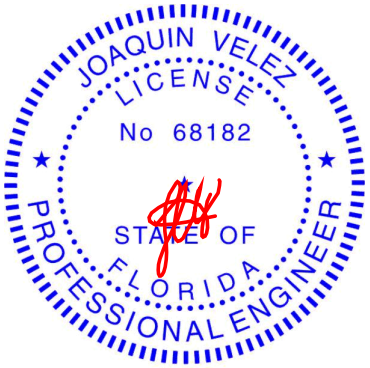
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEDGE
Left: 2x8 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 4=Mechanical, 2=0-8-0
Max Horz 2=176(LC 12)
Max Uplift 3=-121(LC 12), 2=-218(LC 12)
Max Grav 3=160(LC 1), 4=92(LC 3), 2=388(LC 1)

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=25ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 4-11-4 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) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 3=121, 2=218.



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Job	Truss	Truss Type	Qty	Ply	
2221_M_160_C_2020	EJ7	Jack-Open	18	1	T22667303
					Job Reference (optional)

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950, 8.430 s Nov 30 2020 MiTek Industries, Inc. Sun Jan 31 14:44:49 2021 Page 1
ID:EUbcdRdSVPjz3PsjTVS_RMzJaSG-d6eQ_Jsdbzii4bJYn7lHC9?JeEq04_SuurUuUczpowy

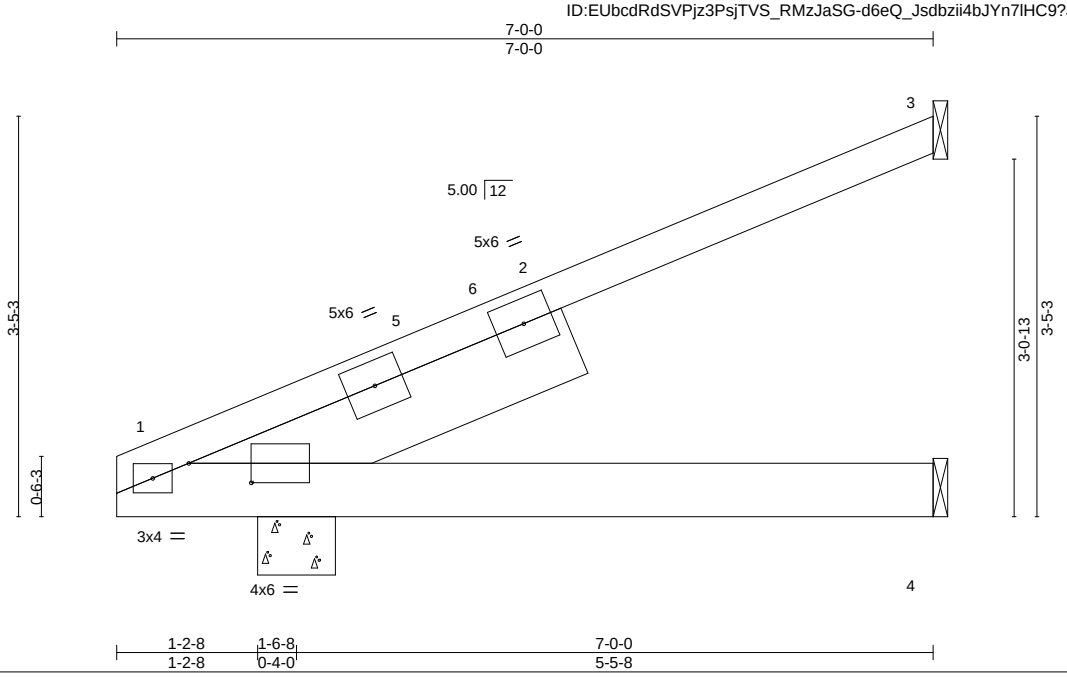


Plate Offsets (X,Y)-- [1:0-6-7,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.58	Vert(LL)	-0.03	1-4	>999	240	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.24	Vert(CT)	-0.06	1-4	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.02	3	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-P							Weight: 38 lb	FT = 20%

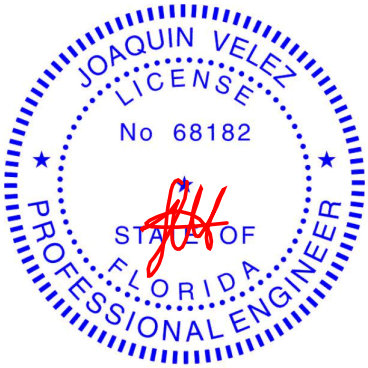
LUMBER-
TOP CHORD 2x4 SP M 31
BOT CHORD 2x6 SP No.2
SLIDER Left 2x8 SP 2400F 2.0E -t 3-5-8

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 4=Mechanical, 1=0-8-0
Max Horz 1=188(LC 12)
Max Uplift 3=-208(LC 12), 1=-83(LC 12)
Max Grav 3=264(LC 1), 4=132(LC 3), 1=330(LC 1)

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=25ft; B=45ft; L=24ft; eave=5ft; 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 6-11-4 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * 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) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 3=208.



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Job	Truss	Truss Type	Qty	Ply	
2221_M_160_C_2020	EJ7A	Jack-Open	4	1	T22667304
					Job Reference (optional)

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950, 8.430 s Nov 30 2020 MiTek Industries, Inc. Sun Jan 31 14:44:50 2021 Page 1
ID:EUbcdRdSVPjz3PsjTVS_RMzJaSG-5ICoCftFMGqZiltkLqHWlMXUfe6vpPv27VDS02zpowx

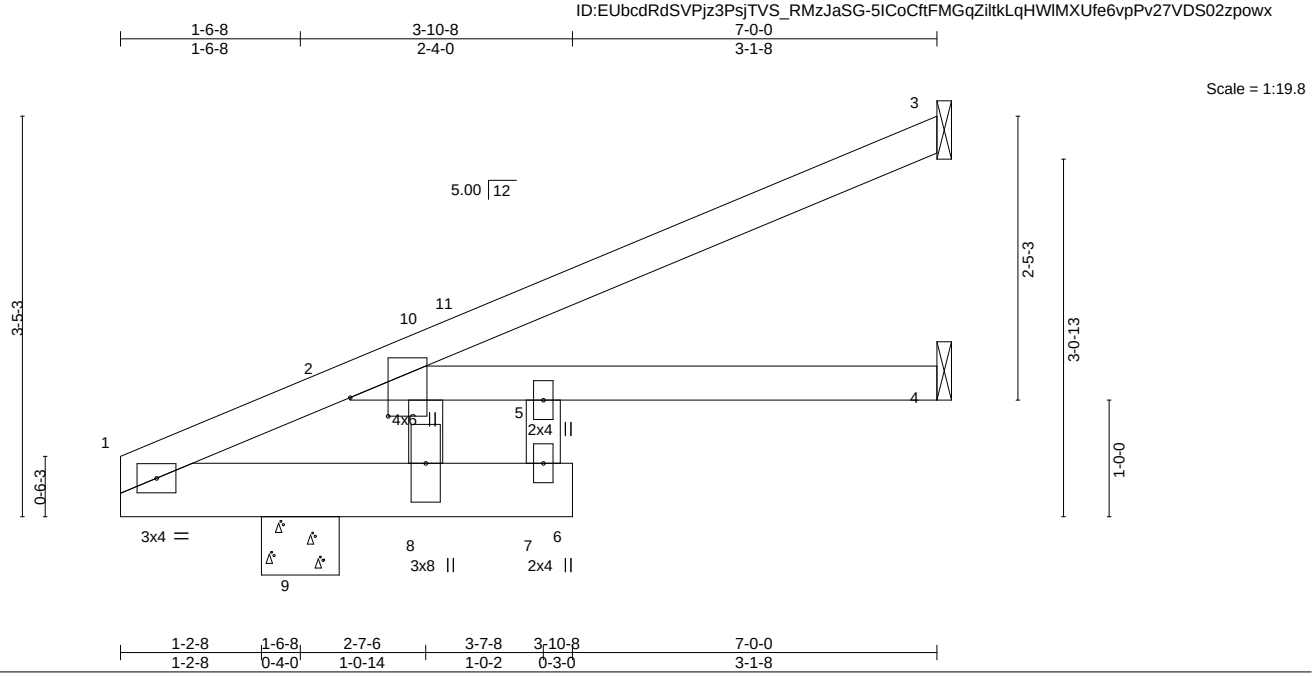


Plate Offsets (X,Y)-- [2:0-1-15,0-3-14]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.63	Vert(LL)	0.10	6	>641	240	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.45	Vert(CT)	-0.13	6	>507	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.05	4	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 30 lb	FT = 20%

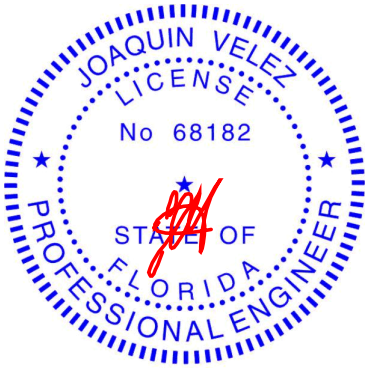
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
1-6: 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 4=Mechanical, 9=0-8-0
Max Horz 9=188(LC 12)
Max Uplift 3=-129(LC 12), 4=-3(LC 12), 9=-175(LC 12)
Max Grav 3=178(LC 1), 4=117(LC 3), 9=475(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-293/58
BOT CHORD 1-9=-22/254, 8-9=-362/332
WEBS 2-8=-549/599

NOTES-
1) Wind: ASCE 7-16; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=5ft; 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 6-11-4 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * 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) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 3=129, 9=175.



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Date:
February 1,2021

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Job	Truss	Truss Type	Qty	Ply	
2221_M_160_C_2020	HJ8	Diagonal Hip Girder	2	1	T22667305

Job Reference (optional)

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950, 8.430 s Nov 30 2020 MiTek Industries, Inc. Sun Jan 31 14:44:52 2021 Page 1
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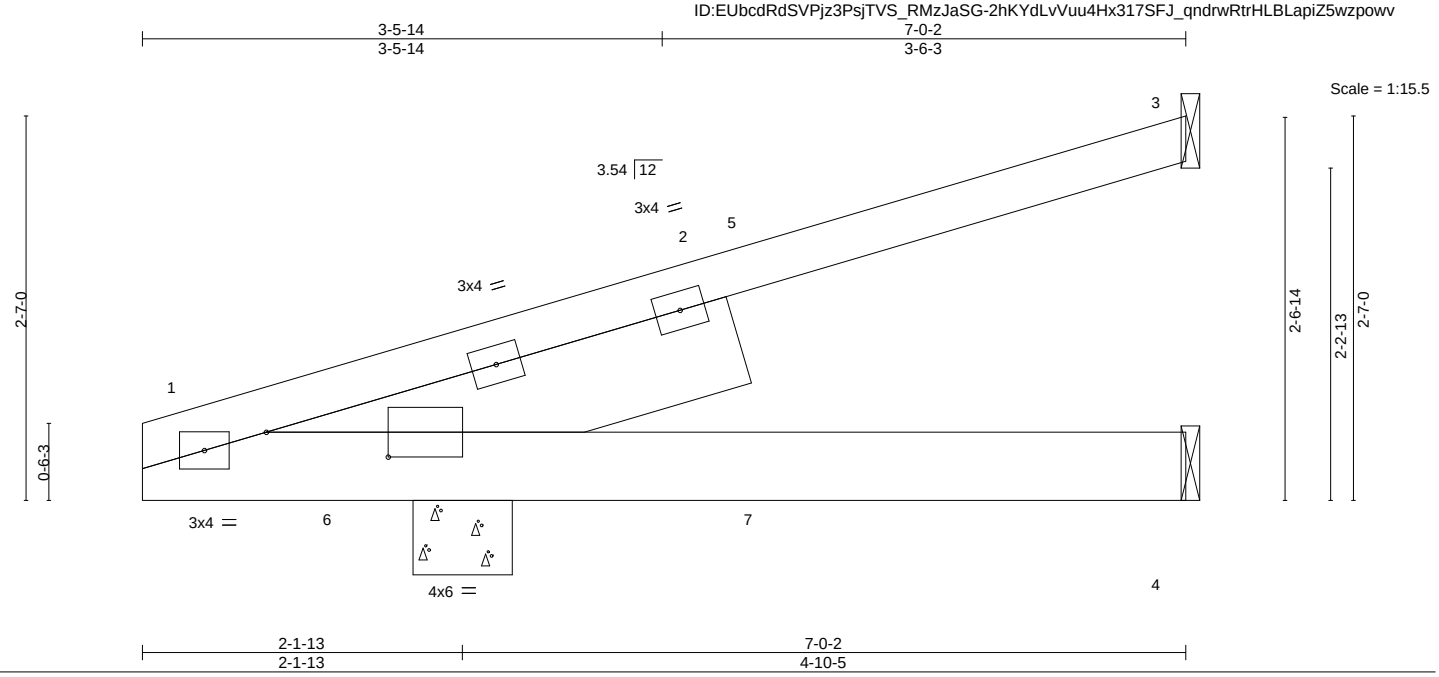


Plate Offsets (X,Y)-- [1:0-9-13,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.51	Vert(LL)	-0.03	1-4	>999	240	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.16	Vert(CT)	-0.04	1-4	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-P							Weight: 37 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
SLIDER Left 2x8 SP 2400F 2.0E -t 3-2-10

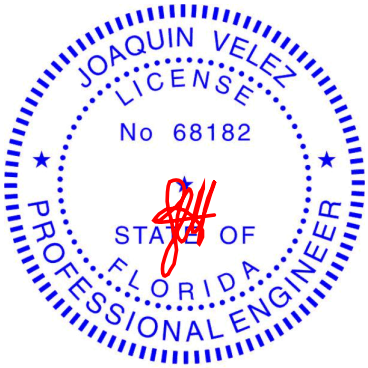
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 4=Mechanical, 1=0-8-0
Max Horz 1=136(LC 8)
Max Uplift 3=-149(LC 4), 4=-22(LC 5), 1=-211(LC 9)
Max Grav 3=138(LC 1), 4=87(LC 3), 1=310(LC 1)

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=25ft; B=45ft; L=24ft; eave=5ft; 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * 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) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 3=149, 1=211.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 44 lb down and 120 lb up at 4-2-8, and 44 lb down and 120 lb up at 4-2-8 on top chord, and 62 lb down and 103 lb up at 1-4-9, 62 lb down and 103 lb up at 1-4-9, and 52 lb up at 4-2-8, and 52 lb up at 4-2-8 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
Concentrated Loads (lb)
Vert: 5=216(F=108, B=108) 6=-123(F=-62, B=-62) 7=85(F=43, B=43)



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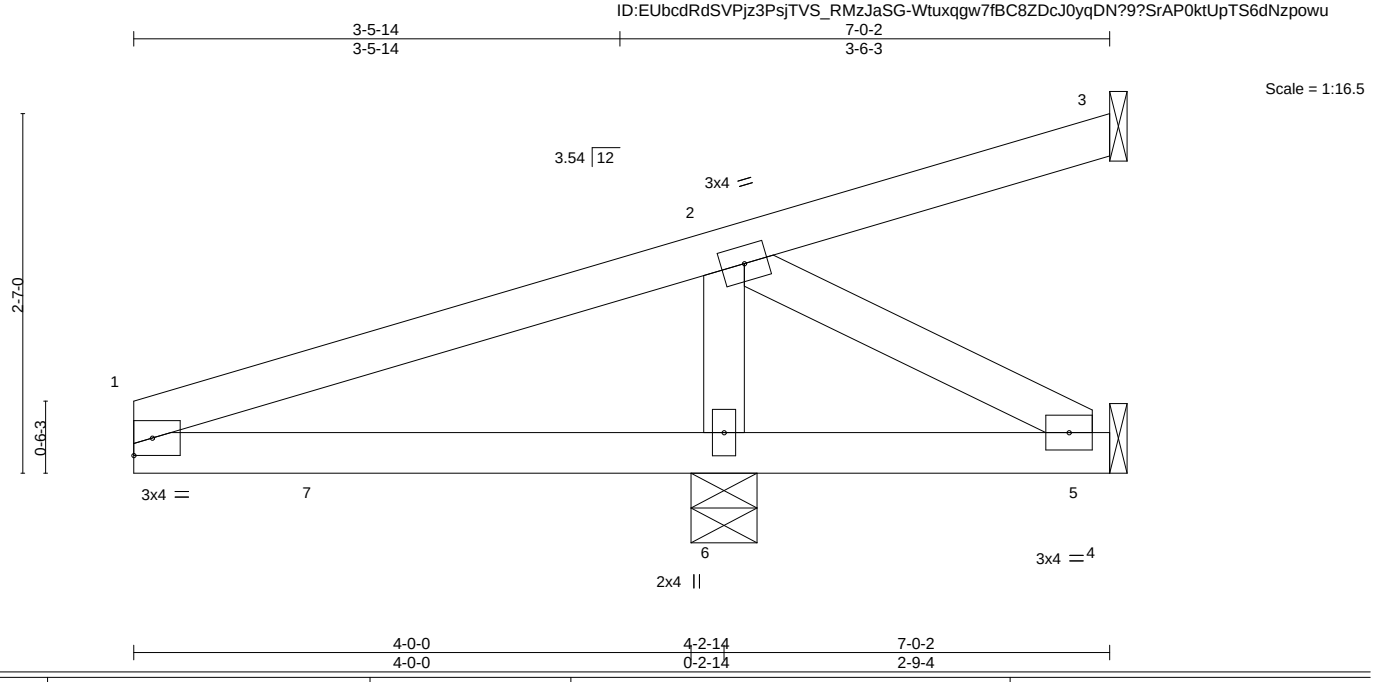
Job	Truss	Truss Type	Qty	Ply	
2221_M_160_C_2020	HJ8A	Diagonal Hip Girder	2	1	T22667306
					Job Reference (optional)

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950, 8.430 s Nov 30 2020 MiTek Industries, Inc. Sun Jan 31 14:44:53 2021 Page 1
ID:EUbcdRdSVPjz3PsjTVS_RMzJaSG-Wtuxqgw7fBC8ZDcJ0yqDN?9?SrAP0ktUpTS6dNzpowu



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.53	Vert(LL)	-0.01	5-6	>999	240	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.33	Vert(CT)	0.01	5-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.29	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-P							Weight: 27 lb	FT = 20%

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

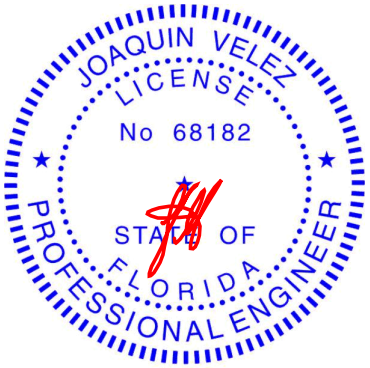
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 5=Mechanical, 6=0-5-11
Max Horz 6=141(LC 8)
Max Uplift 3=-33(LC 8), 5=-384(LC 1), 6=-866(LC 4)
Max Grav 3=49(LC 1), 5=257(LC 8), 6=1217(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-518/777
BOT CHORD 1-6=-670/520, 5-6=-670/379
WEBS 2-5=-434/767, 2-6=-1043/751

NOTES-
1) Wind: ASCE 7-16; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=5ft; 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * 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) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 5=384, 6=866.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 172 lb down and 297 lb up at 4-2-8, and 44 lb down and 120 lb up at 4-2-8 on top chord, and 62 lb down and 103 lb up at 1-4-9, and 62 lb down and 103 lb up at 1-4-9 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
Concentrated Loads (lb)
Vert: 2=-64(F=-172, B=108) 7=-123(F=-62, B=-62)



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MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
February 1,2021

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Job	Truss	Truss Type	Qty	Ply	
2221_M_160_C_2020	HJ10	Diagonal Hip Girder	3	1	T22667307

Job Reference (optional)

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950, 8.430 s Nov 30 2020 MiTek Industries, Inc. Sun Jan 31 14:44:51 2021 Page 1

ID:EUbcdRdSVPjz3PsjTVS_RMzJaSG-aUmAP?ut7ayQKvSwvXolHa4Z42QiYrGBM9z?YUzpoww

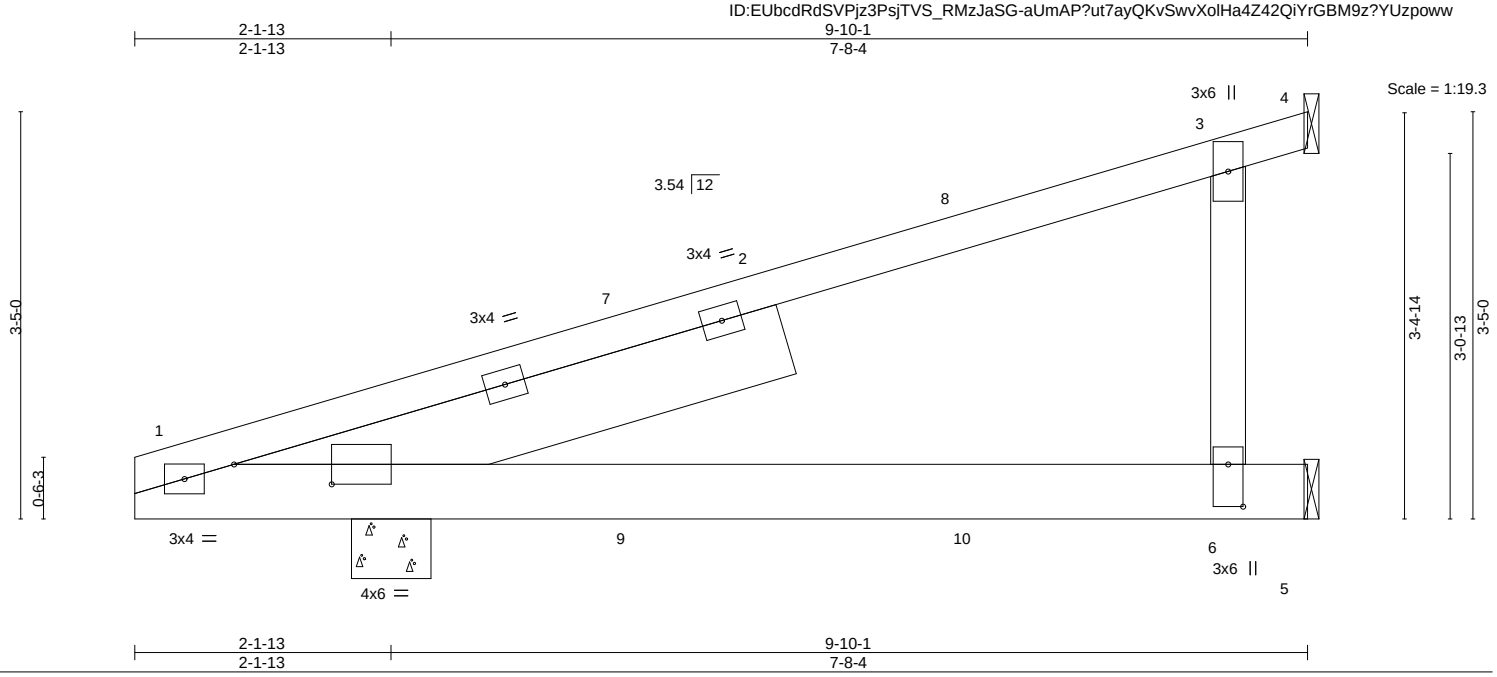


Plate Offsets (X,Y)-- [1:0-9-13,0-2-0], [6:0-4-4,0-1-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.97	Vert(LL)	0.22	1-6	>506	240	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.61	Vert(CT)	-0.23	1-6	>482	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.24	Horz(CT)	-0.02	4	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 57 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.1
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3
SLIDER	Left 2x8 SP 2400F 2.0E -t 4-8-14

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-1-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

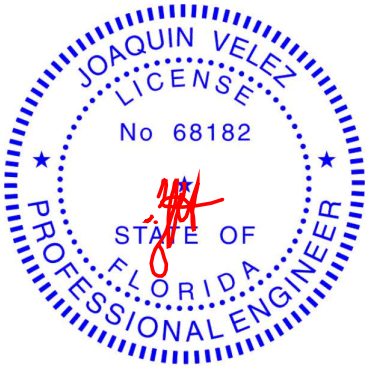
REACTIONS. (size) 4=Mechanical, 5=Mechanical, 1=0-8-0
Max Horz 1=187(LC 8)
Max Uplift 4=-354(LC 1), 5=-724(LC 4), 1=-191(LC 4)
Max Grav 4=431(LC 4), 5=787(LC 1), 1=364(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=-751/791

NOTES-

1) Wind: ASCE 7-16; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=5ft; 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * 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) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=354, 5=724, 1=191.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 24 lb down and 89 lb up at 4-2-8, 24 lb down and 89 lb up at 4-2-8, and 25 lb down and 131 lb up at 7-0-7, and 26 lb down and 133 lb up at 7-0-7 on top chord , and 44 lb up at 4-2-8, 44 lb up at 4-2-8, and 12 lb down and 7 lb up at 7-0-7, and 17 lb down and 27 lb up at 7-0-7 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: 1-4=-80, 1-5=-20
Concentrated Loads (lb)
Vert: 7=150(F=75, B=75) 8=-51(F=-26, B=-25) 9=69(F=34, B=34) 10=-20(F=-15, B=-5)



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Job	Truss	Truss Type	Qty	Ply	
2221_M_160_C_2020	HJ10A	Diagonal Hip Girder	1	1	T22667308
					Job Reference (optional)

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950, 8.430 s Nov 30 2020 MiTek Industries, Inc. Sun Jan 31 14:44:52 2021 Page 1
ID:EUbcdRdSVPjz3PsjTVS_RMzJaSG-2hKYdLvVuu4Hx317SFJ_qndsTRreHKXLapiZ5wzpowv

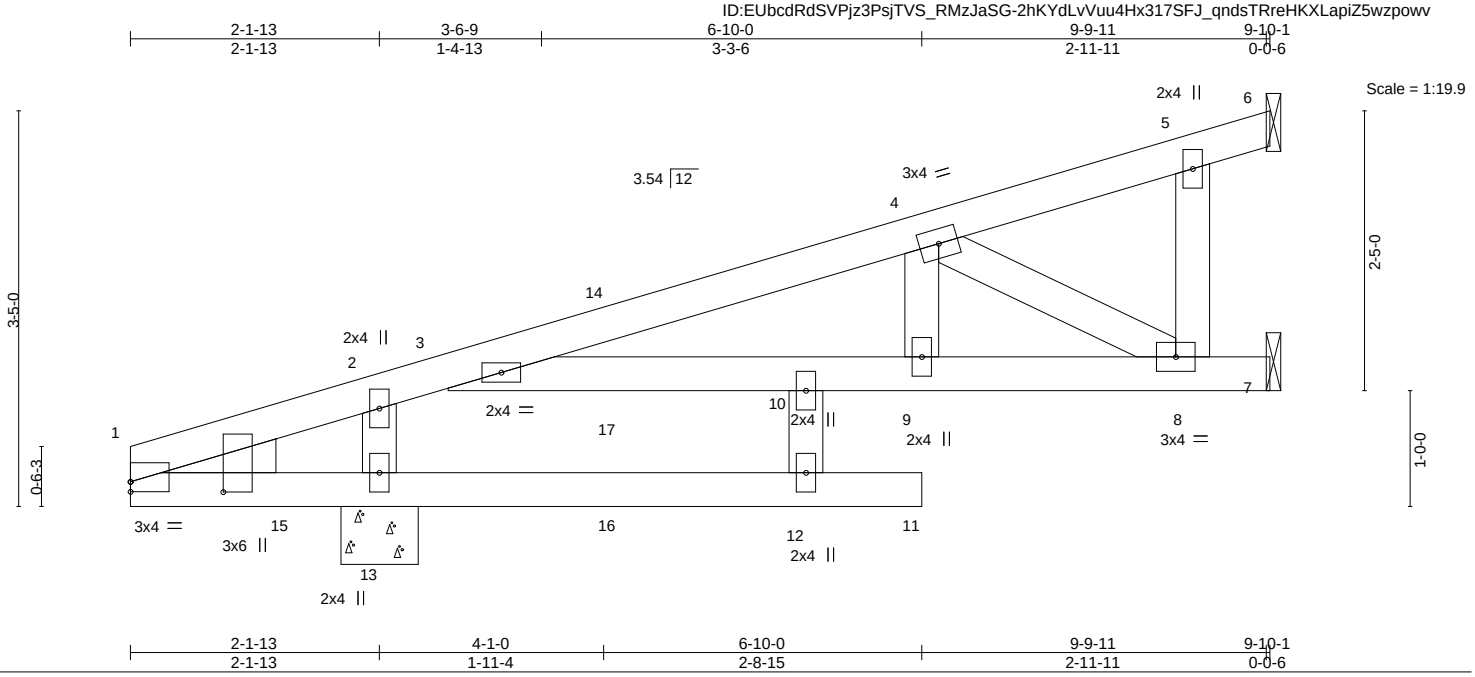


Plate Offsets (X,Y)-- [1:0-0-0,0-1-0], [1:0-1-1,0-9-10]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.48	Vert(LL)	0.04	11	>999	240	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.30	Vert(CT)	0.04	12-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.11	Horz(CT)	-0.05	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 47 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3

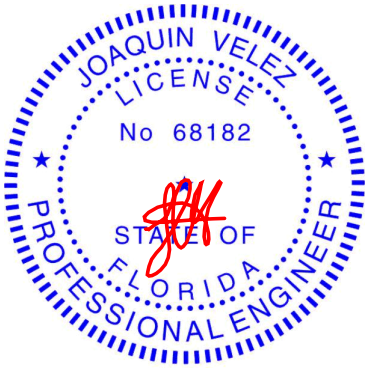
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
10-0-0 oc bracing: 9-10

REACTIONS. (size) 6=Mechanical, 7=Mechanical, 13=0-8-0
Max Horz 13=192(LC 8)
Max Uplift 6=-77(LC 4), 7=-92(LC 4), 13=-370(LC 4)
Max Grav 6=112(LC 3), 7=139(LC 1), 13=540(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-371/289
BOT CHORD 3-10=-316/337, 9-10=-316/337, 8-9=-316/337
WEBS 4-8=-381/357, 2-13=-354/296

NOTES-
1) Wind: ASCE 7-16; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=5ft; 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * 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) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 7 except (jt=lb) 13=370.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 44 lb down and 120 lb up at 4-2-8, 44 lb down and 120 lb up at 4-2-8, and 9 lb down and 123 lb up at 7-0-7, and 9 lb down and 123 lb up at 7-0-7 on top chord, and 62 lb down and 103 lb up at 1-4-9, 62 lb down and 103 lb up at 1-4-9, 52 lb up at 4-2-8, 52 lb up at 4-2-8, and 10 lb down and 30 lb up at 6-10-0, and 10 lb down and 30 lb up at 6-10-0 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: 1-6=-80, 1-11=-20, 7-10=-20



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Continued on page 2

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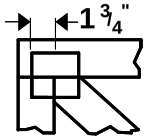
LOAD CASE(S) Standard

Concentrated Loads (lb)

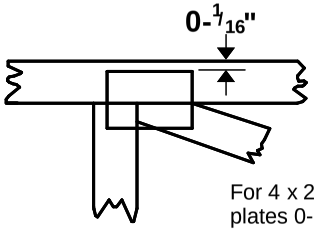
Vert: 11=-19(F=-10, B=-10) 4=50(F=25, B=25) 14=216(F=108, B=108) 15=-123(F=-62, B=-62) 16=85(F=43, B=43)

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- 1/16" from outside edge of truss.

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

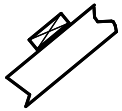
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

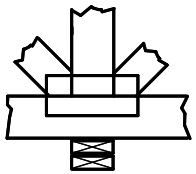
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

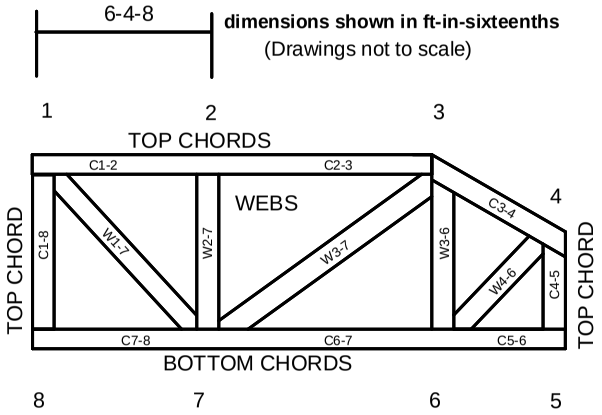


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

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.

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. 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.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. 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.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. 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.