City of ±ŜyλŏŜ
.dzλfŘλyƎ 5ŜŁJI-ЌúYŜyú
4лм ² ◊ ±ŜyλŏŜ !ØŜyʤŜ
±ŜyλŏŜ, Fl. 3428p

Phone (941) 4yc-нснс Fax (941) пycтнппy Email: tŜЌYλúăhyťλyŜ@ci◊ØŜyλŏŜ◊тf◊dză Inspections (941) 4yo-pфлт

RESIDENTIAL DATA SUMMARY WORKSHEET

This form shall be completed and submitted with Application Documents

Owners Name	DR HORTON INC			P.I.D.	0375082330
Project Address	157 Soliera Blvd NOKOMIS, FL, 34275				
Design Professional	Structural Systems	Phone	407-774-6078	Fax	
Contractor	DR HORTON INC	Phone	239-266-2600	Fax	

Applicable Codes

Building Code	Florida Building Code	2017 Residential	Volume
Mechanical Code	Florida Building Code	2017 Residential	Volume
Plumbing Code	Florida Building Code	2017 Residential	Volume
Electrical Code	NFPA 70 / NEC 2011		
Accessibility Code	Florida Building Code	FACBC 2017	
Energy Code	Florida Building Code	Residential Energy Efficiency 2017	

Manufacturer / FL Product Approval / NOA #

Doors / SGD	SGDFL14634R3-FL12225 R4
Windows	SH Windows - Impact FL17499.8
Overhead Doors	Wayne-Dalton FL9174-R12
Mitered Glass	N/A
Shutters	ALL AMERICAN -FL17869-R-
Roof Coverings	IKO INDUSTRIES - FL7006-R10
Soffit	AMERICAN CONSTRUCTION -FL
Sentricon Bait	BORA CARE

Method of Design per R301 / Residential Volume

_____ AF&PA (WFCM) X ASCE 7 - 10 _____ AISI (COFS/PM) _____ ICC 600

_____ MAF Guide Other _____

_____ FBC 2010 / 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)

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

SEE PLAN FOR ACTUAL
Please Show Design Pressure for Worst Case ONLY

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

Floor Design	Live Load	40	p.s.f
	Dead Load	SLAB GRADE	p.s.f
Roof Design	Live Load	20	p.s.f
	Dead Load	TC20 BC10	p.s.f

Components and Cladding Design Pressures:

Z1 +19.2-30.6 p.s.f. Z3 +19.20-78.8 p.s.f. Z5 +33.5-44.8 p.s.f.

Z2 +19.2-53.2 p.s.f. Z4 +33.5-36.3 p.s.f. a= edge distance 5ft

Misc. Notes

Pressures shown have been multiplied by 0.6 to convert to ASD(Allowable Stress Design) Table R301.2

Area Tabulation

Living	1,444	sf / Conditioned Space
Garage	395	sf
Lanai	115	sf
Entry	53	sf
Storage		sf
Other		sf
	2,007	**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.

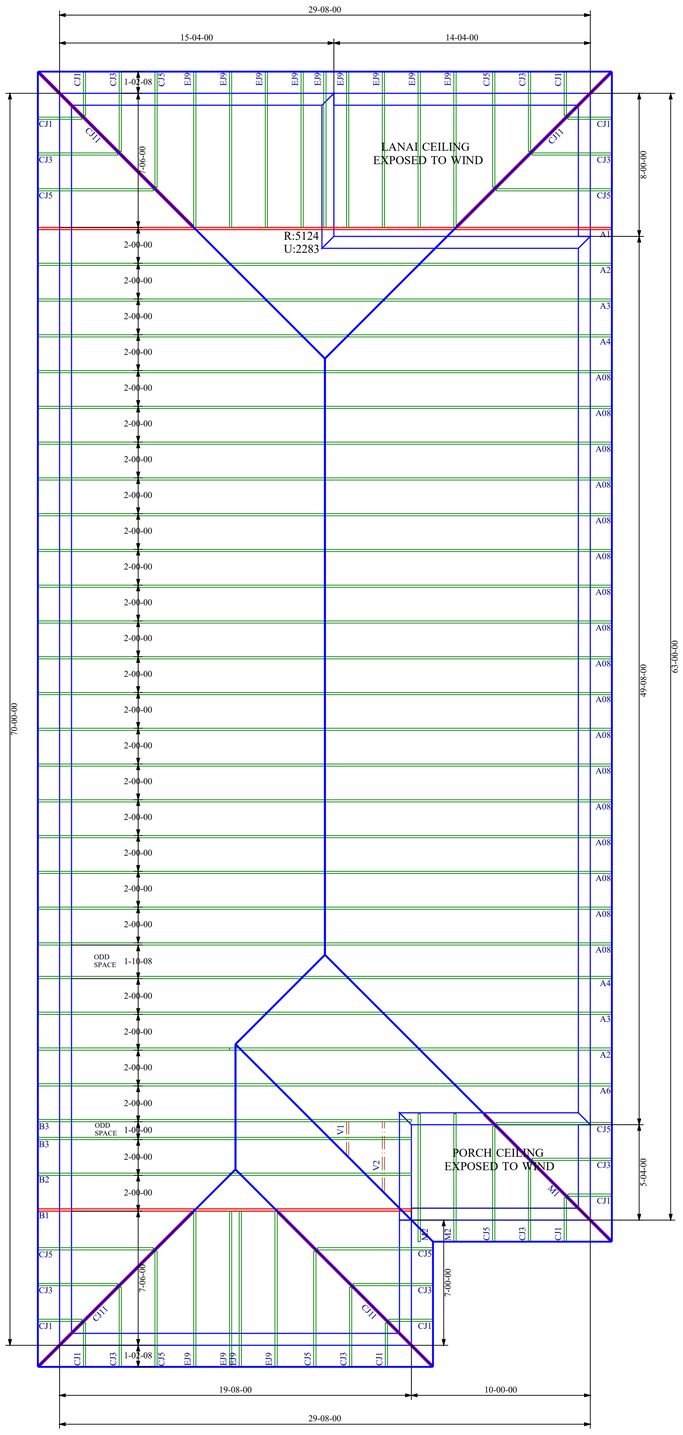
Signature _____ **Date** _____
Architect / Engineer

DEREK W. BERGENER LICENSE No. 58552 STATE OF FLORIDA PROFESSIONAL ENGINEER

Seal

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

JOB No.	MASTER
DATE DRAWN	6/26/2020
DATE PRINTED	6/26/2020



Engineer of Record for the Structure
Structural Systems of N. Fl, Inc.
Derek Bergener, PE 58552
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.

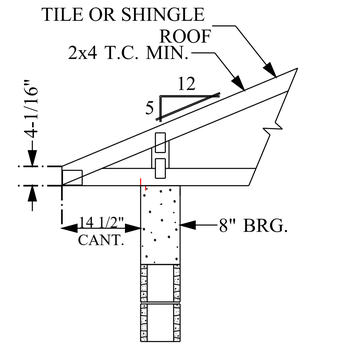
☑ Accepted As-Is ☐ Accepted As Noted ☐ Revise and Resubmit

GENERAL TRUSS ENGINEERING CRITERIA & DESIGN LOADS	
DESIGN CODE	FBC2017/TPI2014
WIND CODE	MWFRS (Directional)/C-C HYBRID WIND ASCE 7-10
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

BEARING HEIGHT SCHEDULE
9'-4" BEARING HEIGHT



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

ALL 9'-4" FLAT CEILINGS

SIMPSON ROOF AND FLOOR TRUSS HANGER SCHEDULE

ID	QTY/RF	QTY/FL	MODEL	FLOOR	ROOF	UPLIFT	SYMBOL
A*	0	0	LUS24	725	895	490	A*
A	0	0	HTU26	2940	3200 / 3600	1250 / 1555	A
B	0	0	HTU28	3820	3895 / 4680	1235 / 2140	B
C	0	0	HTU26-2	2940	3600	1515 / 2175	C
D	0	0	HTU28-2	3820	4310 / 4680	1530 / 3485	D
E	0	0	HGUS26-2	4355	5320	2155	E
F	0	0	HGUS28-2	7460	7460	3235	F
G	0	0	HGUS26-3	4355	5230	2155	G
H	0	0	HGUS28-3	7460	7460	3235	H
I	0	0	HGUS210-4	9100	9100	4095	I
J	0	0	SUL26	865	1055	765	J
K	0	0	SUR26	865	1055	765	K
L	0	0	SUL210	1440	1760	1250	L
M	0	0	SUR210	1440	1760	1250	M
N	0	0	THJA26	2680	3265	960	N
O	0	0	HJC26	2385	2980	1840	O
P	N/A	0	HHUS46	2790	3410	1550	P
Q	N/A	0	THA422	2245	2245	1855	Q
R	N/A	0	THAC422	2245	2245	1855	R
S	N/A	0	THA426	2435	2435	1855	S

NOTE: UPLIFT VALUE FOR THA422, THAC422, THA426 HANGERS APPLY ONLY TO FACE MOUNT ISTALATION

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	1444 A 160 C LH
MODEL	1444
ADDRESS	--
CITY, STATE	--, FL.
LOT	--
COUNTY	--
DRAWN BY	D.W.
ENG. BY	D.W.

REVISIONS

No.	DATE	NOTES	BY

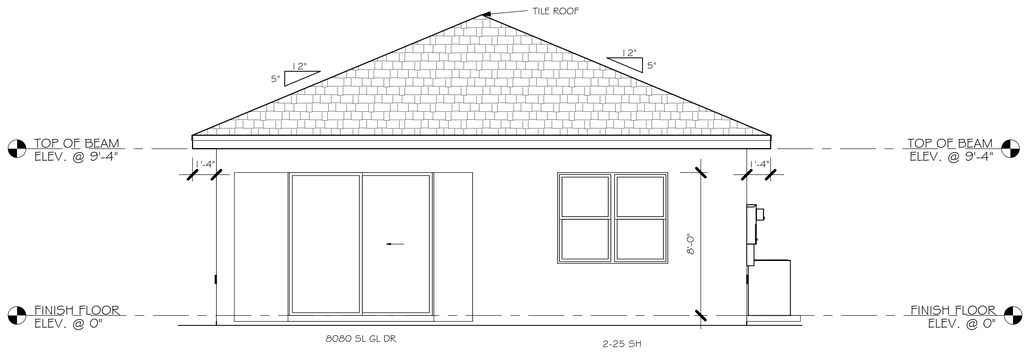
IMPORTANT

This Drawing Must Be Approved And Returned Before Fabrication Will Begin. For Your Protection Check All Dimensions And Conditions Prior To Approval Of Plan.
SIGNATURE BELOW INDICATES ALL NOTES AND DIMENSIONS HAVE BEEN ACCEPTED.

By _____ Date_____

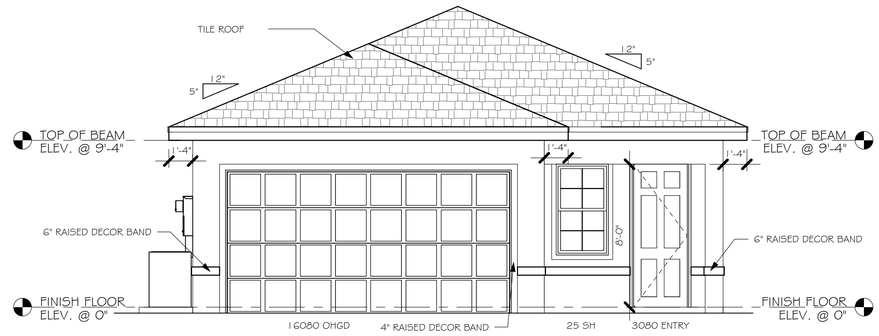
6850 Taylor Road Punta Gorda, Fl. 33950
Phone: 941-575-2250 / Fax:941-575-0319

Builders FirstSource



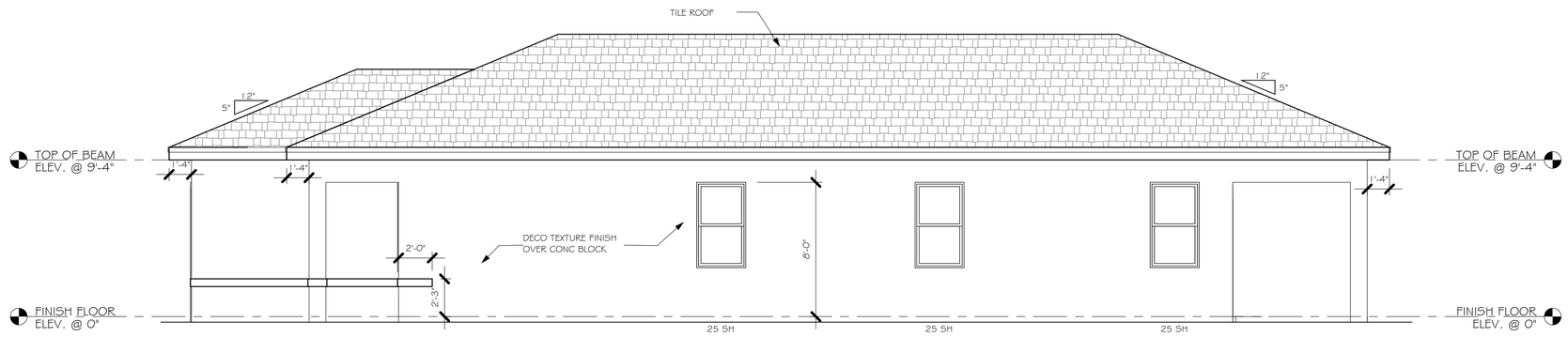
REAR ELEVATION "AL"

1/4" = 1'-0"



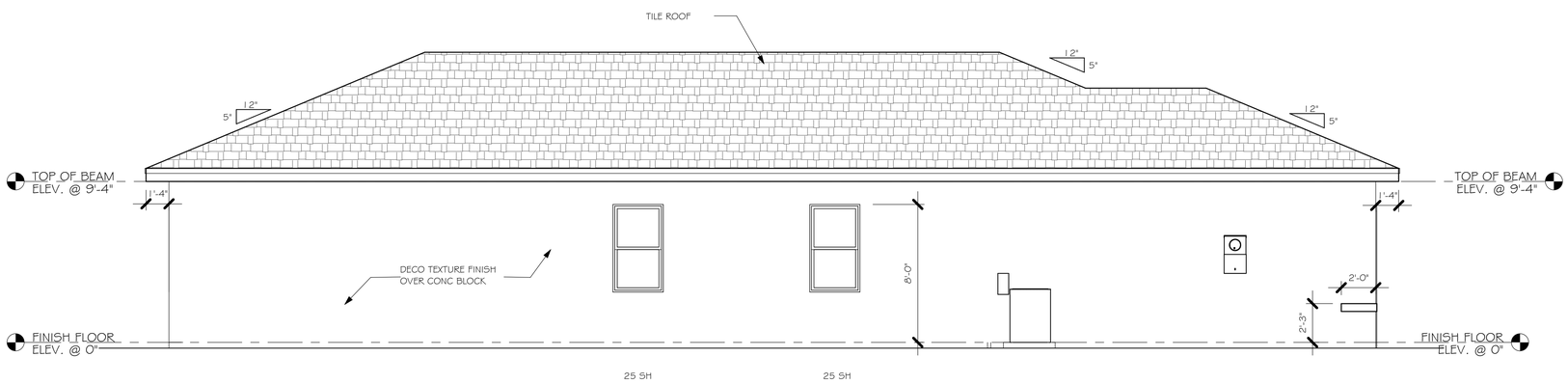
FRONT ELEVATION "AL"

1/4" = 1'-0"



RIGHT ELEVATION "AL"

1/4" = 1'-0"



LEFT ELEVATION "AR"

1/4" = 1'-0"

DESIGN IN ACCORDANCE WITH THE RESIDENTIAL FLORIDA BUILDING CODE 2017 - 6TH EDITION

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America's Builder

Gulf Coast
Drafting & Design, Inc.
EMAIL: PLANS@GULFCOASTDRAFTING.COM
PHONE: 239-540-1822
1515 SE 47TH ST. CAPE CORAL, FL 33904

LOT: 761
SUBDIVISION: TOSCANA III 40s
ADDRS: 157 SOLIERA BLVD
D.R.H. #: 5795701 26

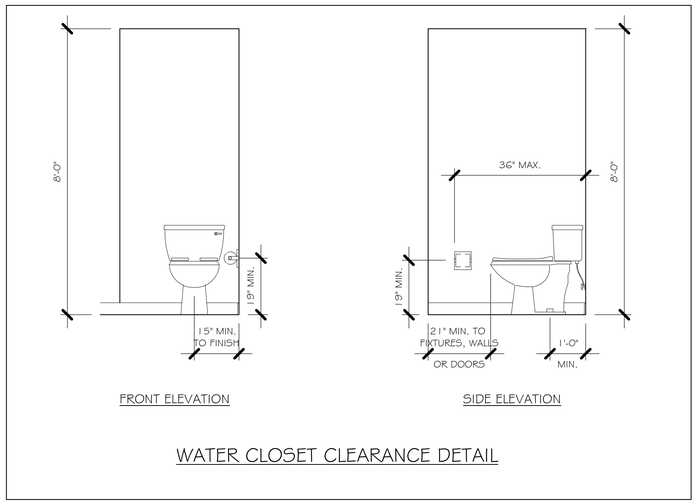
MODEL
1444

GCD JOB # 11785

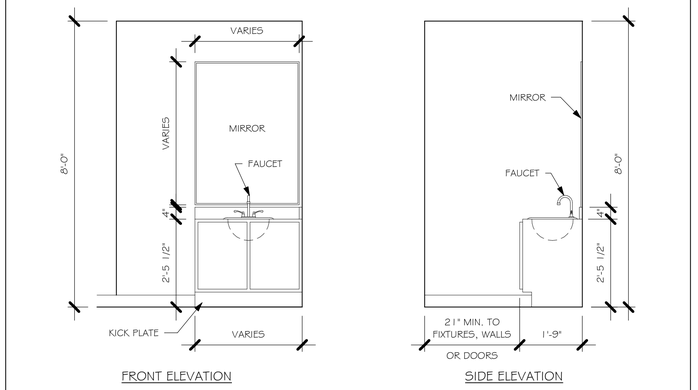
DATE: 08/07/20
DRAWN BY: JSL
CHECKED BY: JWC
REVISED:
PLAN: ELEVATION
SCALE: 1/4" = 1'-0"

A-1 AL

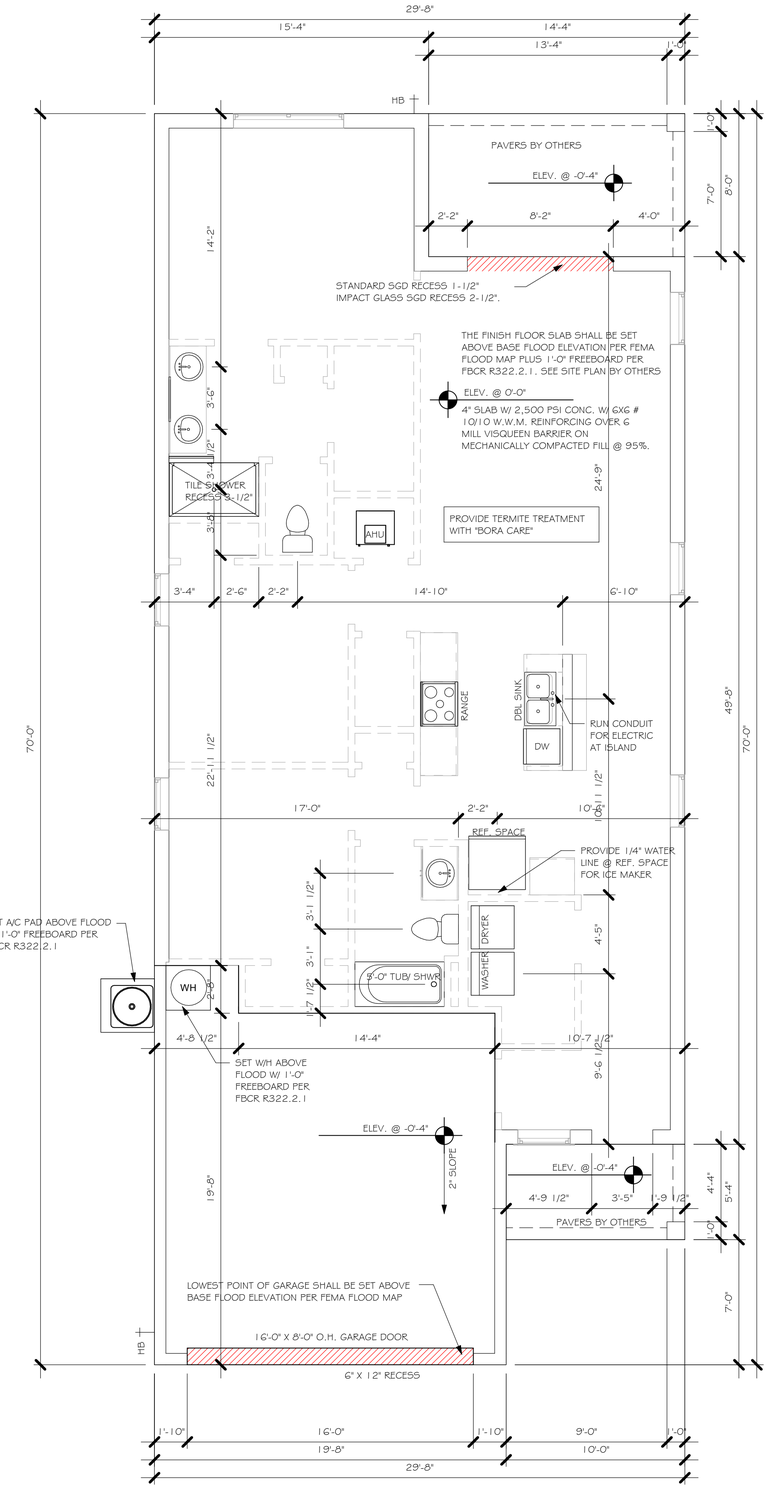
L:\0-New Data\1-MASTER 2019\2019-BUILDERS\DR HORTON 2019\SUBDIVISIONS\TOSCANA ISLES 60'S\11785 LOT 761 1444 ALREVIT\11785 1444 AL.rvt



WATER CLOSET CLEARANCE DETAIL



VANITY SINK CLEARANCE DETAIL



SLAB & PLUMBING "AL"
1/4" = 1'-0"

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1515 SE 47TH ST. CAPE CORAL, FL 33904

LOT: 761
SUBDIVISION: TOSCANA III 40s
ADDRS: 157 SOLIERA BLVD
D.R.H. #: 5795701 26

MODEL 1444

GCD JOB # 11785

DATE: 08/07/20
DRAWN BY: JSL
CHECKED BY: JWC
REVISED:
PLAN: SLAB & PLUMBING
SCALE: As indicated

A-2 AL

L:\0-New Data\1-MASTER 2019\2019-BUILDERS\DR HORTON 2019\SUBDIVISIONS\TOSCANA ISLES 6095\11785 LOT 761 1444 AL\REVIT\11785 1444 AL.rvt

DOOR SCHEDULE

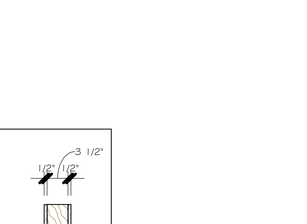
MARK	DESCRIPTION	MANUFACTURER	HEIGHT	WIDTH	COMMENTS	QTY
1	3080 ENTRY	DISTINCTION	8'-0"	3'-0"		1
2	2-4080 SL. GL. DR.	DISTINCTION	8'-0"	8'-0"	IMPACT	1
3	16080 OHGD	GARAGE	8'-0"	16'-0"		1

WINDOW SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	HEIGHT	WIDTH	COMMENTS	QTY
A	25 SH		5'-3"	3'-11"	IMPACT	6
B	2-25 SH		5'-3"	6'-4"	IMPACT	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" BI-FOLD	HEADER HEIGHT	82" A.F.F.
6'-8" SWING	HEADER HEIGHT	82 1/2" A.F.F.
8'-0" SWING	HEADER HEIGHT	98 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 @ 34 1/2" A.F.F.

7) INSTALL SMOOTH WALLS IN KITCHEN AND ALL BATHROOM AREAS

8) WHERE DRYWALL CEILING IS APPLIED TO TRUSSES @ 24" O.C. USE 5/8" DRYWALL OR 1/2" SAG RESISTANT PER SEC. 702.3.5

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 SEPARATIION IS A FLOOR - CEILING ASSEMBLY, THE STRUCTURE SUPPORTING THE SEPARTION SHALL ALSO BE PROTECTED BY NOT LESS THAN 1/2" GYPSOM BOARD OR EQUIVALENT

10) INSTALL 1 3/8" THICK SOLID WOOD DOOR BETWEEN LIVING AND GARAGE PER FLORIDA BUILDING CODE R302.1.5.

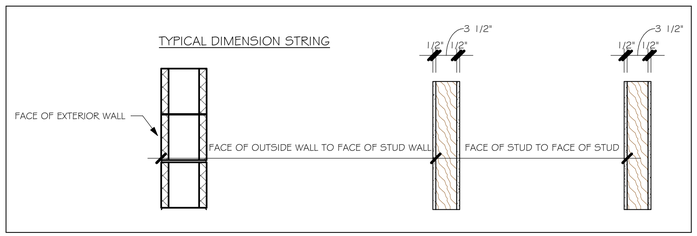
11) ALL WINDOWS INSTALLED 72" ABOVE GRADE MUST COMPLY WITH R612.2 MIN 24" SILL HEIGHT OR PROVIDED WITH AN APPROVED WINDOW FALL PRVENTION DEVICE

12) ALL CLOSET SHELVES TO BE 12". ALL PANTRY & LINEN TO BE (4)-16" SHELVES 18" O.F.F. W/ 15" INCREMENT.

13) ALL MECHANICAL AND ELECTRICAL EQUIPMENT TO BE INSTALLED AT OR ABOVE FLOOD PLUS 1'-0" FREEBOARD.

CABINET BACKING

KITCHEN	UPPER TOP @ 84"	BASE TOP @ 35"
MASTER BATH	UPPER	BASE TOP @ 35"
GUEST BATH	UPPER	BASE TOP @ 31"
LAUNDRY ROOM	UPPER TOP @ 84"	BASE



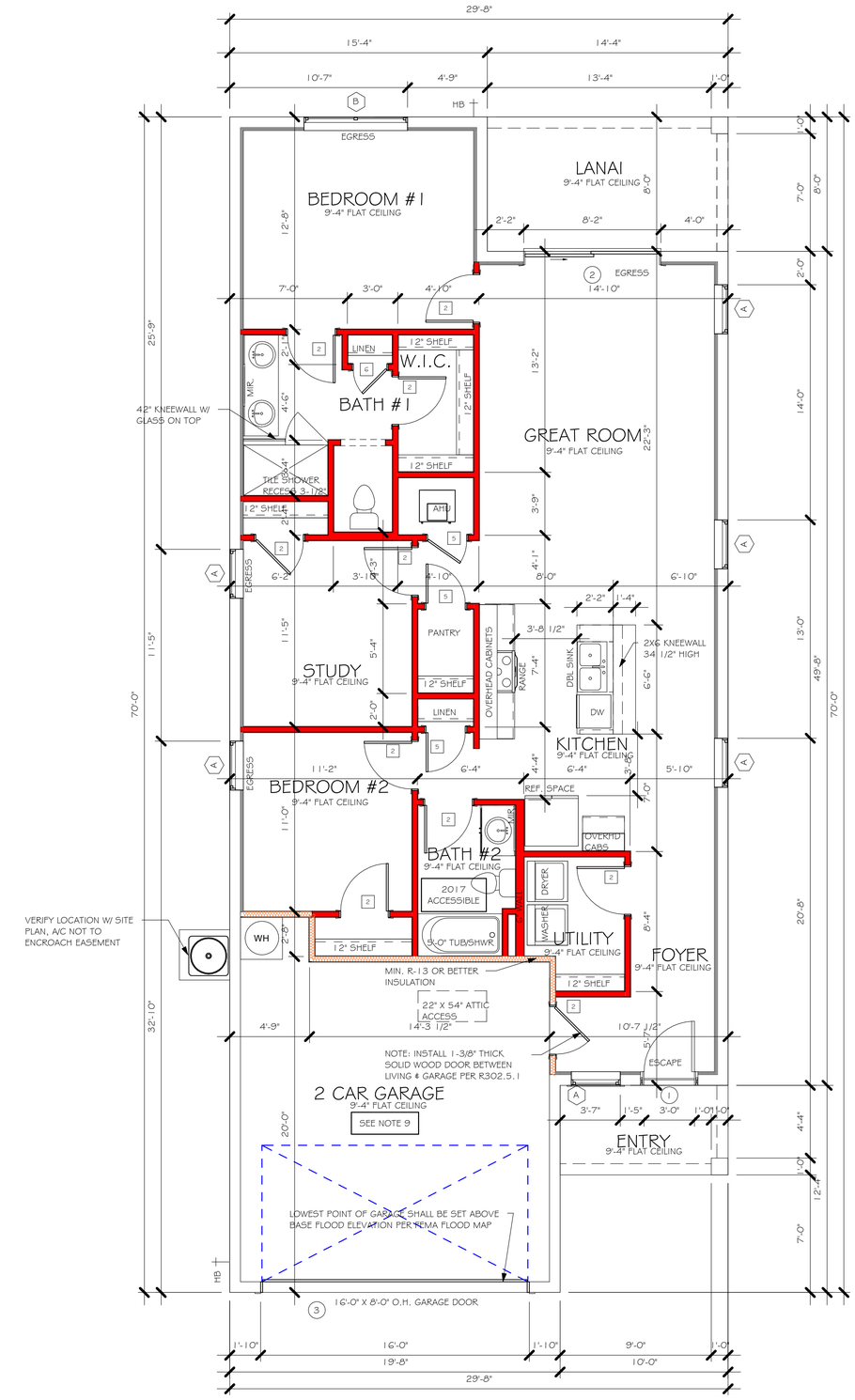
SQUARE FOOTAGE

LANAI AREA	115 SF
LIVING AREA	1444 SF
ENTRY AREA	53 SF
GARAGE AREA	395 SF
TOTAL AREA	2007 SF

INTERIOR DOOR SCHEDULE

MARK	DOOR WIDTH
1	3'-0"
2	2'-10"
3	2'-8"
4	2'-6"
5	2'-4"
6	2'-0"
7	1'-8"
8	1'-6"

NOTES
P.K. = POCKET DOOR
B.F. = BI-FOLD DOOR
B.P. = BI-PASS DOOR
L.V. = LOUVERED DOOR



FLOOR PLAN "AL"
1/4" = 1'-0"

DESIGN IN ACCORDANCE WITH THE RESIDENTIAL FLORIDA BUILDING CODE 2017 - 6TH EDITION

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LOT: 761
SUBDIVISION: TOSCANA III 40s
ADDRS: 157 SOLIERA BLVD
D.R.H. #: 5795701 26

MODEL 1444

GCD JOB # 11785

DATE: 08/07/20
DRAWN BY: JSL
CHECKED BY: JWC
REVISED:
PLAN: FLOOR
SCALE: As indicated

A-3 AL

L:\0-New Data\1-MASTER 2019\2019-BUILDERS\DR HORTON 2019\SUBDIVISION\TOSCANA ISLES 60'S\11785 LOT 761 1444 ALREVIT\11785 1444 AL.rvt

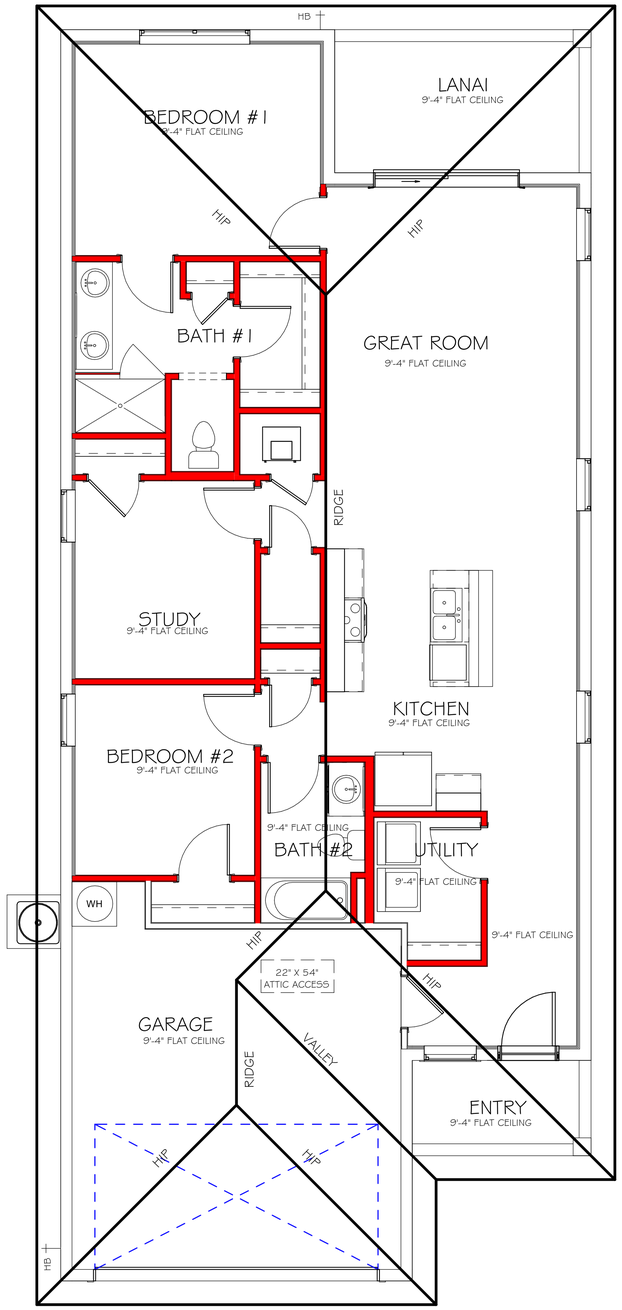
MODEL 1443 A: ATTIC VENTILATION FBCR R806

COORDINATE VENTING REQUIREMENTS WITH ENERGY CALCULATIONS

			SOFFIT ONLY (1/150) (NO ROOF VENTS)			WITH ROOF VENTS (1/300) (R.V.)		
AREAS (SQ. FT.)			ATTIC VENTILATION REQUIRED			ATTIC VENTILATION REQUIRED		
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	2253.4 SQ. FT.	246.7 SQ. FT.	15.02 SQ.FT.	6.09%	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 32" BASE 22-3/8" BASE LOMANCO 770-D 0.97 SQ. FT. FREE AIR		

BEARING HEIGHT

= BEARING @ 9'-4"



ROOF PLAN "AL"

1/4" = 1'-0"

DESIGN IN ACCORDANCE WITH THE RESIDENTIAL FLORIDA BUILDING CODE 2017 - 6TH EDITION

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MODEL 1444

GCD JOB # 11785

DATE: 08/07/20
DRAWN BY: JSL
CHECKED BY: JWC
REVISED:
PLAN: ROOF
SCALE: As indicated

A-4 AL

L:\0-New Data\1-MASTER 2019\2019 9-BUILDERS\DR HORTON 2019\SUBDIVISIONS\TOSCANA ISLES 60'S\11785 LOT 761 1444 ALREVIT\11785 1444 AL.rvt

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
AFF	DUPLEX RECEPTACLE AT ELEV. A.F.F.
	DUPLEX RECEPTACLE - ABOVE COUNTER
S	SINGLE POLE SWITCH
S 3	3 WAY SWITCH
S D	DIMMER SWITCH
S MS	MOTION SENSOR SWITCH
SD SCD	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)
T	TELEPHONE OUTLET
TV	TELEVISION RECEPTION OUTLET
	SURFACE MOUNTED CEILING LIGHT
	FUSH MOUNTED LIGHT
	WALL MTD. BRACKET LIGHT
	DUPLEX FLOOD LIGHT
	EXHAUST FAN
	TRACK MTD. LIGHTS
	A/C DISCONNECT
PB	PUSH BUTTON (PB) / DOOR BELL (DB)
IC	INTERCOM
KP	KEYPAD
	4' FLUORESCENT LIGHT
	2' UNDER COUNTER LIGHT

NOTE: NOT ALL SYMBOLS ARE USED FOR THIS PROJECT.

ELECTRICAL NOTES:

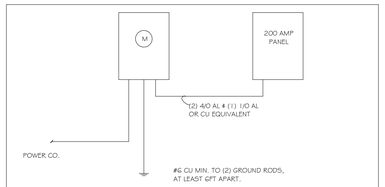
ARC-FAULT CIRCUIT-INTERRUPTERS AND TAMPER RESISTANT RECEPTACLES SHALL BE INSTALLED IN DWELLING UNITS PER N.E.C 210.12 AND 406.11

ALL ELECTRIC, ELECTRICAL EQUIPMENT ABD 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 AND T.V PER CONTRACT.

INSTALL ALL ELECTRICAL PER NEC 2014

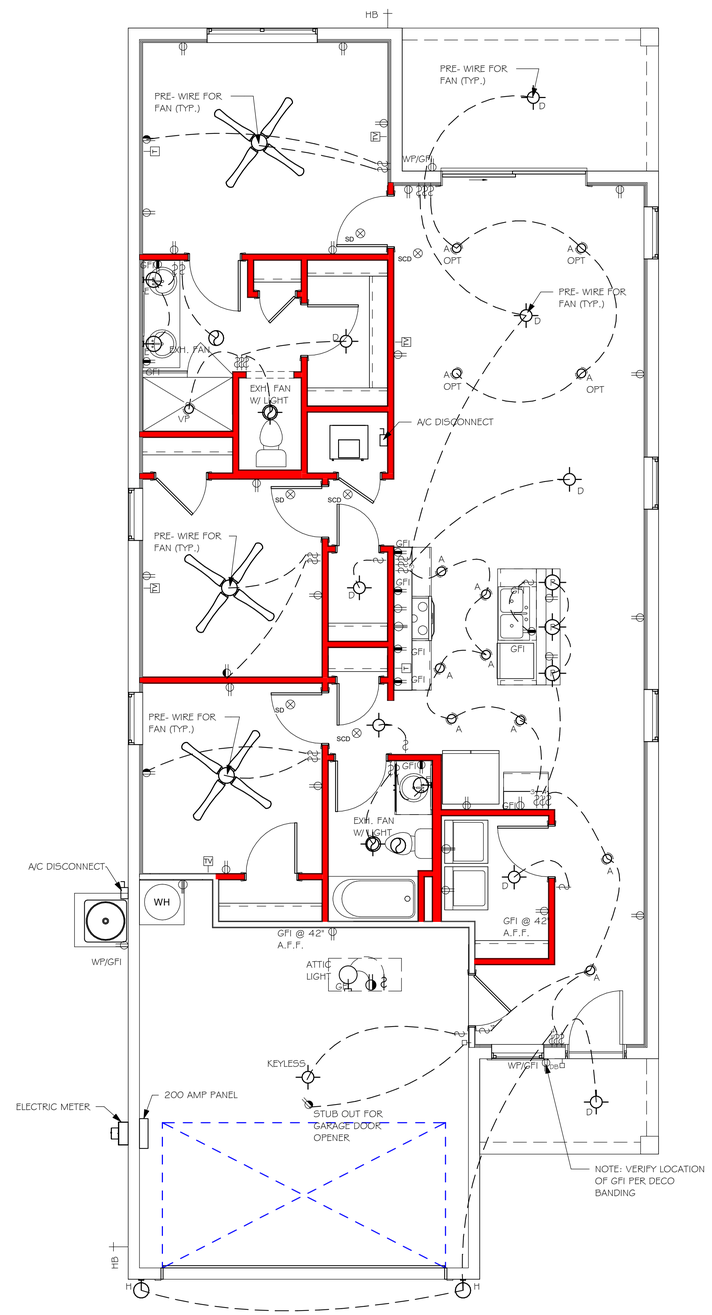


200 AMP ELECTRICAL RISER DIAGRAM

ELECTRICAL PLAN 1444

200 AMP SERVICE

TAG	QUANTITY	PRODUCT
A	(4)	(FLUSHMOUNTED LT)
B	(X)	(VAPORS)
C	(2)	(PENDANT LIGHT
D	(7)	(10" MUSHROOMS)
E	(3)	(24" 3 LT)
F	(X)	(36" 4 LT)
G	(X)	(NOT USED)
H	(3)	(COACH LIGHTS)
I	(X)	
J	(X)	(J BOX)
K	(1)	(4' FLUORESCENT)
L	(1)	(2' FLUORESCENT)
M	(X)	(5LT CHANDELIER)
N	(X)	(3 LT)
O	(X)	(PENDANT/ NOOK)
P	(X)	(X)
Q	(X)	(X)



ELECTRICAL PLAN "AL"

1/4" = 1'-0"

DESIGN IN ACCORDANCE WITH THE RESIDENTIAL FLORIDA BUILDING CODE 2017 - 6TH EDITION

D·R·HORTON® America's Builder
DHI NYSE

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PHONE: 239-540-1822
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LOT: 761
SUBDIVISION: TOSCANA III 40s
ADDRS: 157 SOLIERA BLVD
D.R.H. #: 5795701 26

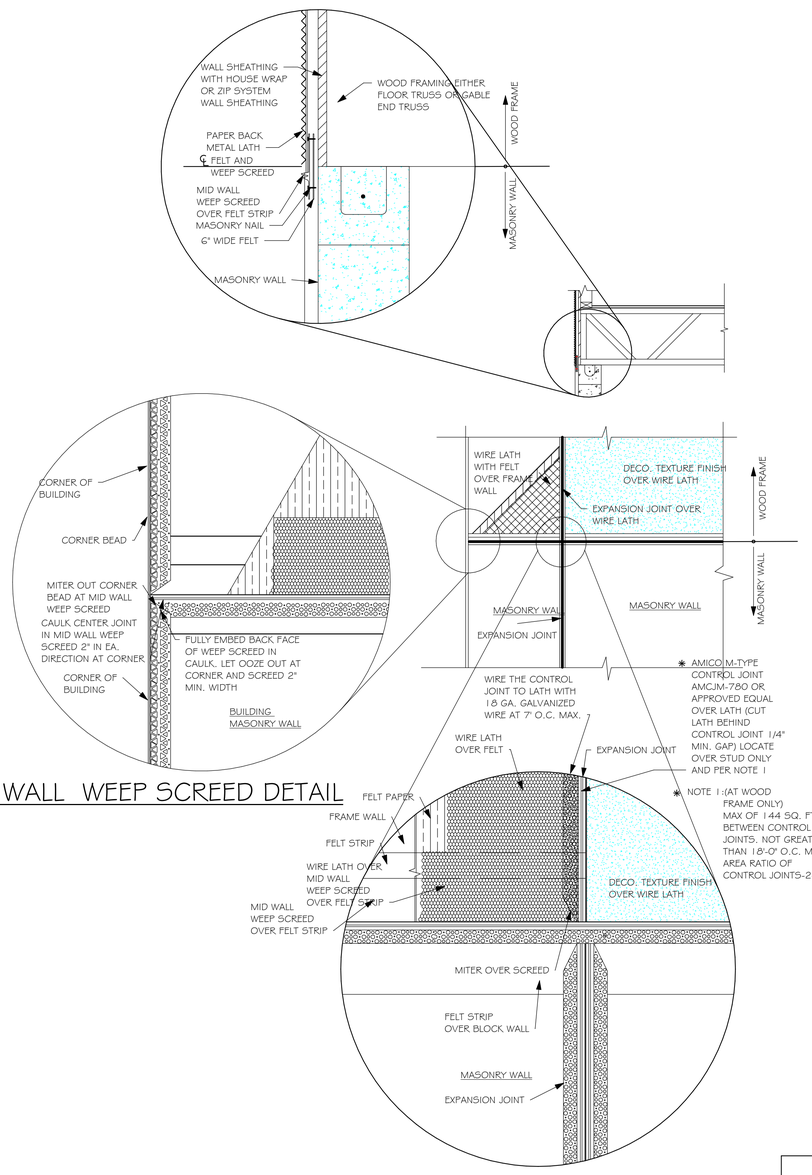
MODEL 1444

GCD JOB # 11785

DATE: 08/07/20
DRAWN BY: JSL
CHECKED BY: JWC
REVISED:
PLAN: ELECTRICAL
SCALE: As indicated

A-5 AL

L:\0-New Data\1-MASTER 2019\2019-BUILDERS\DR HORTON 2019\SUBDIVISIONS\TOSCANA ISLES 60S\11785 LOT 761 1444 AL\REVIT\11785 1444 AL.rvt

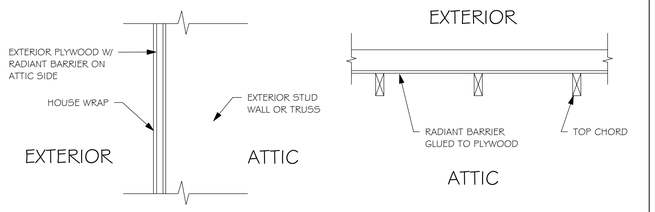


MID WALL WEEP SCREED DETAIL

WEEP SCREED DETAIL

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

GABLE WALL | ROOF



RADIANT BARRIER: SCALE: N.T.S.

NOTE: EXTERIOR WALLS ADJACENT TO ATTIC SPACE, INCLUDING KNEEWALLS AND GABLE END WALLS, MUST HAVE RADIANT BARRIER AND HOUSE WRAP.

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 DISCREPENCIES 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 CONJUCTION 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.
   ALL BOLTS, NUTS, WASHERS, STRAPS AND FASTENERS INCLUDING NAILS, SHALL BE HOT MOPED DIPPED GALVANIZED OR STAINLESS STEEL CONTINUOUS ANCHORAGE SHALL BE PROVIDED BETWEEN ALL TRUSSES, WALL SECTIONS, BEAMS, POSTS AND FOOTINGS WITH USE OF STRAPS AND CONNECTORS AS SPECIFIED HEREIN.
7. TREATED WOOD REQUIREMENTS:-
   ALL TREATED 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 GYP. BOARD CEILING FASTENED WITH 8d NAILS OR 1-5/8" DRYWALL SCREWS @ 6" O.C. EDGE AND FIELD.

2 GENERAL ROOF ASSEMBLY

ROOF SHEATHING
SHALL BE APA RATED SHEATHING, EXPOSURE 1, SPAN RATING 24/16 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. THE ROOF SHEATHING SHALL BE NAILED WITH 8d RING SHANK NAILS @ 4" O.C. EDGE AND 6" O.C. FIELD. ENSURE THAT ALL NAILS PENETRATE THE TOP CHORD OF THE TRUSSES WITHOUT SPLITTING. RING SHANK NAILS PER R803.2.3.1 - 0.113" NOMINAL SHANK DIAMETER, RING DIAMETER OF 0.012" OVER SHANK DIAMETER, 16 TO 20 RINGS PER INCH, 0.280" DIAMETER FULL ROUND HEAD, 2" NAIL LENGTH.

FLASHING
FLASHING SHALL BE ALUMINUM, ALUMINUM ZINC COATED STEEL 0.0179" THICK, 26 GAUGE A250 ALUM ZINC, OR GALVANIZED STEEL 0.0179" THICK, 26 GAUGE ZINC COATED G90. FLASHING SHALL BE INSTALLED IN ACCORDANCE WITH THE ZIP SYSTEM ROOF SHEATHING MANUFACTURES PUBLISHED REQUIREMENTS. ALL FLASHING AND INSTALLATION SHALL CONFORM TO SECTION R905.2.8 (1 TO 5).

DRIP EDGE
DRIP EDGE SHALL BE PROVIDED AT ALL EAVES AND GABLES OF SHINGLES 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
15# FELT SHALL BE INSTALLED UNDER ASPHALT SHINGLES. ALL ASPHALT SHINGLES SHALL HAVE SELD-SEALING STRIPS OR BE INTERLOCKING AND COMPLY WITH ASTM D 225 OR D 3462, 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 CASSE BE FASTENED WITH LESS FASTENERS THAN THAT REQUIRED BY THE MANUFACTURE INSTALLATION SHALL COMPLY WITH 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 WITH GALVANIZED STEEL, STAINLESS STEEL OR ALUMINUM WITH A MINIMUM SHANK SIZE OF 12 GAUGE (0.105") WITH A MINIMUM 3/8" DIAMETER HEAD SHANK AND SHALL BE A LENGTH TO PENTRATE THE SHEATHING

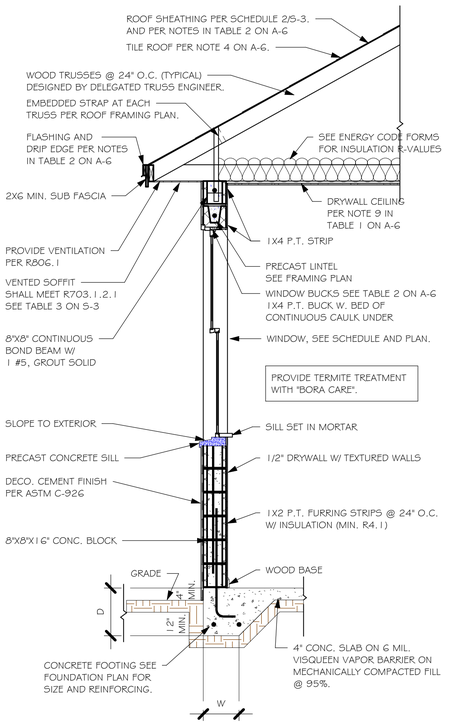
THE NAIL COMPONENT OF PLASTIC CAP NAILS SHALL MEET OR EXCEED THE REQUIREMENTS OF ASTM A 641, CLASS 1, OR EQUAL, AND SHALL BE CORROSION RESITANT BY ELECTRO GALVANIZATION, MECHACNICAL GALVANIZATION, HOT DIPPED GALVANIZATION OR SHALL BE MADE OF STAINLESS STEEL, NON-FERROUS METAL

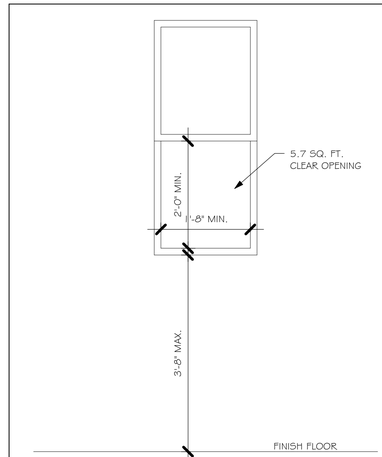
4 CLAY AND CONCRETE ROOF TILE SPECS

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 MANUFACTURERS IDENTIFICATION MARK.
APPLICATION SPECIFICATIONS: THE TILE MANUFACTURER'S WRITTEN APPLICATION SPECIFICATIONS SHALL BE AVAILABLE AND SHALL INCLUDED BUT NOT BE LIMITED TO THE FOLLLOWING:
1. TILE PLACEMENT AND SPACING,
2. ATTACHMENT SYSTEM NECESSARY TO COMPLY WITH CURRENT WIND CODE,
   A. AMOUNT AND PLACEMENT OF MORTART
   B. AMOUNT AND PLACEMENT OF ADHESIVE
   C. TYPE, NUMBER, SIZE AND LENGTH OF FASTENERS AND CLIPS.
3. UNDERLAYMENT
4. SLOPE REQUIREMENT.

5 FLOOR SHEATHNG AT 2ND FLOOR

A.P.A. RATED STURDI-FLOOR, EXPOSURE 1, TONGUE & GROOVE EDGES SPAN RATING 48/24 OR BETTER, GLUED AND NAILED





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

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

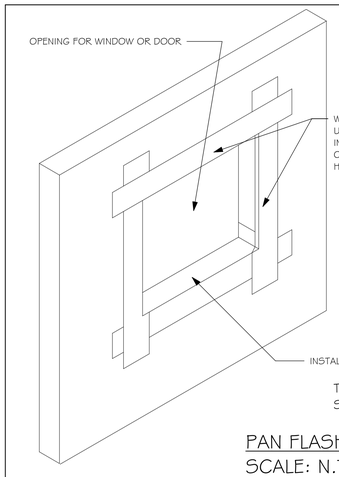
R310.2.1 MINIMUM OPENING HEIGHT- THE MINIMUM NET CLEAR OPENING HEIGHT SHALL BE 24 INCHES (610mm).

R310.2.1 MINMUM 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



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 OF 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 AND STICK FLASHING MEMBRANE
-FLUID APPLIED FLASHING
FOR SUCH PRODUCTS FOLLOW THE MANUFACTURER'S INSTALLATION REQUIREMENTS

FOR IN-DEPTH FLASHING 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.

DESIGN IN ACCORDANCE WITH THE RESIDENTIAL FLORIDA BUILDING CODE 2017 - 6TH EDITION

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SUBDIVISION: TOSCANA III 40s
ADDRS: 157 SOLIERA BLVD
D.R.H. #: 5795701126

MODEL 1444

GCD JOB # 11785

DATE: 08/07/20
DRAWN BY: JSL
CHECKED BY: JWC
REVISED:
PLAN: SECTIONS
SCALE: As indicated

A-6

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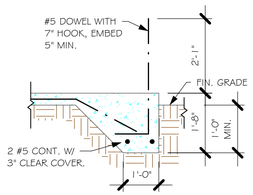
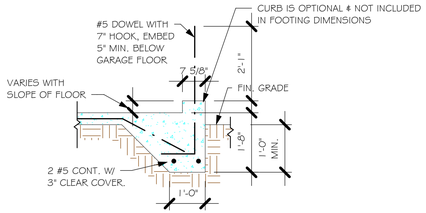
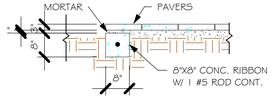


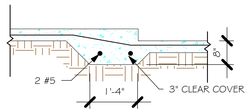
"F3" FOOTING
1/2" = 1'-0"



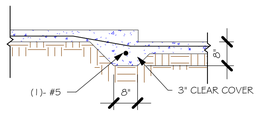
"F3" WITH CURB AT GARAGE
1/2" = 1'-0"



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



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



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

FOUNDATION PLAN

SCALE: 1/4" = 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. **PROVIDE #5 VERTICAL REINFORCING AT DOT LOCATIONS SHOWN ON PLAN FROM FOOTING TO BOND BEAM.**
5. **ALL DIMENSIONS ARE TO OUTSIDE FACE OF MASONRY WALLS. SOME SLAB EDGES MAY EXTEND BEYOND FACE OF WALL.**
6. **FOR DIMENSIONS OF ROUGH OPENINGS IN MASONRY WALLS, COORDINATE WITH WINDOW/ DOOR SUPPLIER.**
7. **PROVIDE PRESSURE TREATED BUCKS AT WINDOWS/ DOORS PER DETAIL 7/S-3.**

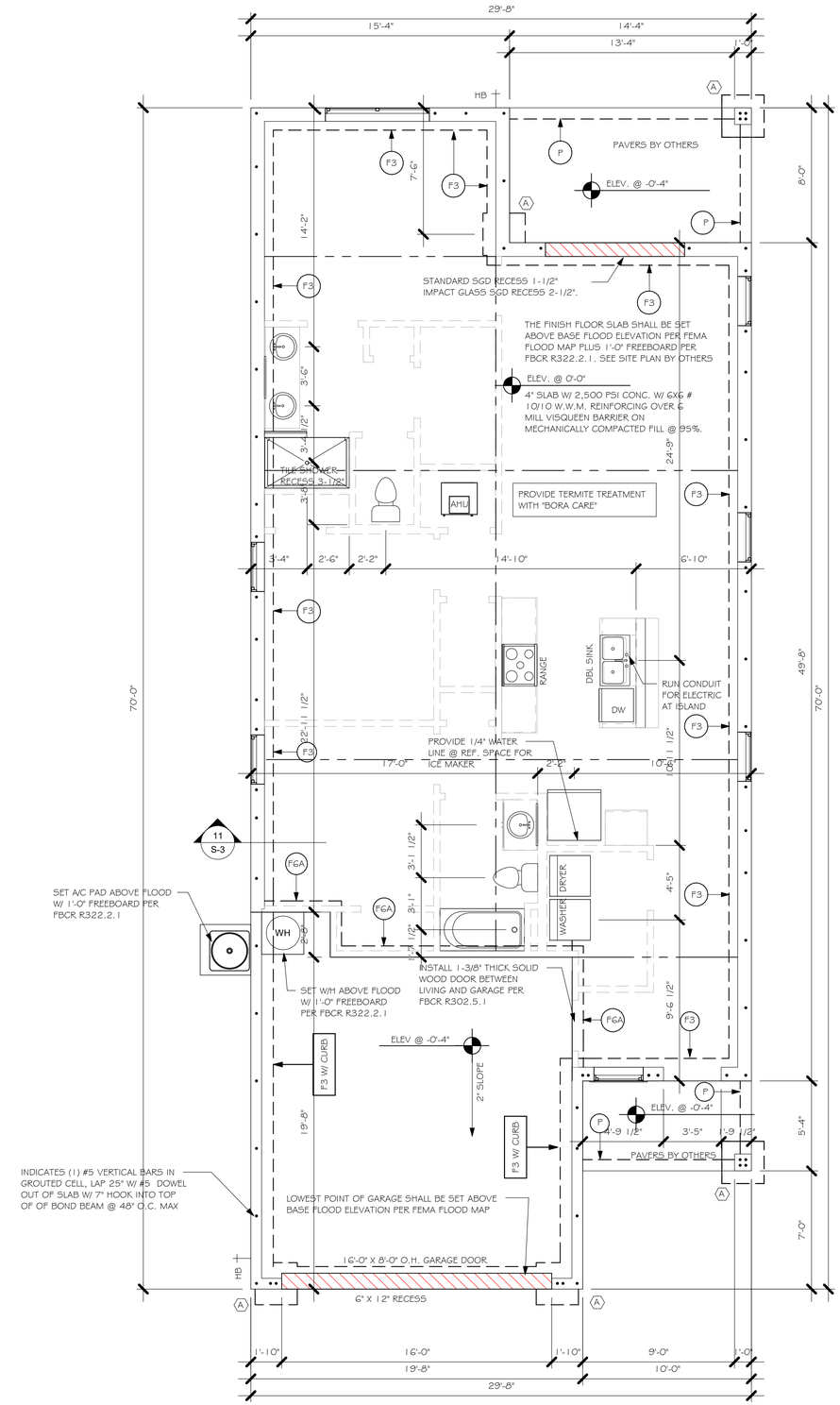
PAD FOOTING SCHEDULE

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	
	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		ADD CURB TO GARAGE, SEE DETAIL
	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		
	TE	CONT.	0'-8"	0'-8"	1-#5		

PROVIDE CORNER BARS PER 6/S-3



FOUNDATION "AL"
1/4" = 1'-0"

DESIGN IN ACCORDANCE WITH THE RESIDENTIAL FLORIDA BUILDING CODE 2017 - 6TH EDITION

L:\0-New Data\1-MASTER 2019\2019-BUILDER\DR HORTON 2019\SUBDIVISION\TOSCANA ISLES 60'\1785 LOT 761 1444 ALREVIT\1785 1444 AL.rvt

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DEREK M. BERGENER LICENSE No. 58552 STATE OF FLORIDA PROFESSIONAL ENGINEER

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SUBDIVISION: TOSCANA III 40s
ADDRS: 157 SOLIERA BLVD
D.R.H. #: 5795701126

MODEL 1444

GCD JOB # 11785

DATE: 08/07/20
DRAWN BY: JSL
CHECKED BY: JWC
REVISED:
PLAN: FOUNDATION PLAN
SCALE: As indicated

S-1 AL

	TRUSS STRAPPING TO MASONRY		
	MAX TRUSS UPLIFT @ 24" OC (LBS)	CONNECTOR	FASTENER
INSTALL META16 AT ALL TRUSSES TO 1450 lb UPLIFT. FOR HIGHER UPLIFTS, SEE NOTES ON PLAN.	1450	(1) META16 TO 40	(8) 0.148x1 1/2", EMBED 4"
	1810	(1) HETA16 TO 40	(9) 0.148x1 1/2", EMBED 4"
	2120	(1) HHETA16 TO 40	(10) 0.148x1 1/2", EMBED 4"
	1875 (1 PLY)	(2) META16 TO 40	(10) 0.148x1 1/2", EMBED 4"
	1795 (2 PLY)	(2) META16 TO 40	(14) 0.162x3 1/2", EMBED 4"
	2365 (2 PLY)	(2) META16 TO 40	(12) 0.162x3 1/2", EMBED 4"
	2365 (2 PLY)	(2) HHETA12 TO 40	(12) 0.162x3,1/2" EMBED 4"
	3965/SYP 3330/SPF	MGT (2 PLY)	(22) 0148x3" ATR, EPOXY 12"
	4235/SYP 3640/SPF	HTT4	(18) 0.162x2 1/2", 5/8" ATR, EPOXY 12"
	4670/SYP 4015/SPF	HTT5	(26) 0.148x3", 5/8", ATR, EPOXY 12"
	5445/SYP 5360/SPF	HTT5KT	(26) SD#10x2 1/2", 5/8," ATR, EPOXY
	10690/SYP 10690/SPF	(1)HGT - 2	(26) 0.148x3" TO GIRDER (2) 3/4" Ø ATR, EPOXY 12"
	10790/SYP 10790/SPF	(1)HGT - 3	(16) 0.148x3" TO GIRGER, (2) 3/4" Ø 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 -C OF WALL.
2. CONNECTORS ARE SIMPSON STRUCTURAL CONNECTORS. ALL CONNECTORS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH SIMPSON PRINTED INSTUCTIONS. SUBSTITUTIONS MUST BE APPROVED IN WRITING BY THE ENGINEER OF RECORD.
3. WHERE EMBEDDED STRAPS ARE MISSING, OR MIS-LOCATED, INSTALL RETROFIT STRAP PER 10/S-3.

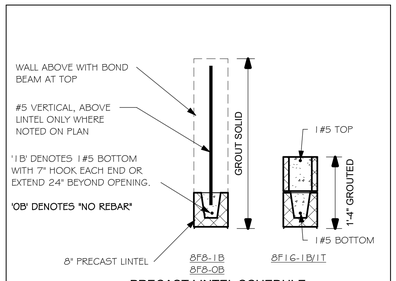
SIMPSON CATALOG C-C- 2019

INSTALL AT ALL TRUSSES TO 840 lb UPLIFT. FOR HIGHER UPLIFTS, SEE NOTES ON PLAN.

TRUSS STRAPPING TO STUDWALL/ WOOD BEAM		
MAX TRUSS UPLIFT @ 24" OC (LBS)	CONNECTOR	FASTENER
850	(1)MTS16 TO 20	(14) 10dx1-1/2"
1700	(2) MTS16 TO 20	(14) 10dx1-1/2"
2550	(3) MTS16 TO 20	(14) 10dx1-1/2"
1125	(1) HTS20 TO 30	(24) 10dx1-1/2"
2250	(2) HTS20 TO 30	(24) 10dx1-1/2"
3375	(3) HTS20 TO 30	(24) 10dx1-1/2"
4500	(4) HTS20 TO 30	(24) 10dx1-1/2"

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. CONNECTORS ARE SIMPSON SRTONG TIE. ALL CONNECTORS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH SIMPSON PRINTED INSTUCTIONS.

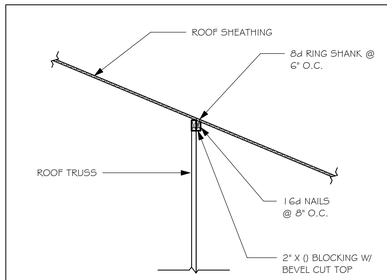
SIMPSON CATALOG C-C- 2019



PRECAST LINTEL SCHEDULE

AT SWING DOORS, USE 2" RECESS STYLE LINTEL IF NEEDED FOR ROUGH OPENING.

LINTELS BEAR 4" MIN. EACH END



BEVELLED BLOCKING DETAIL

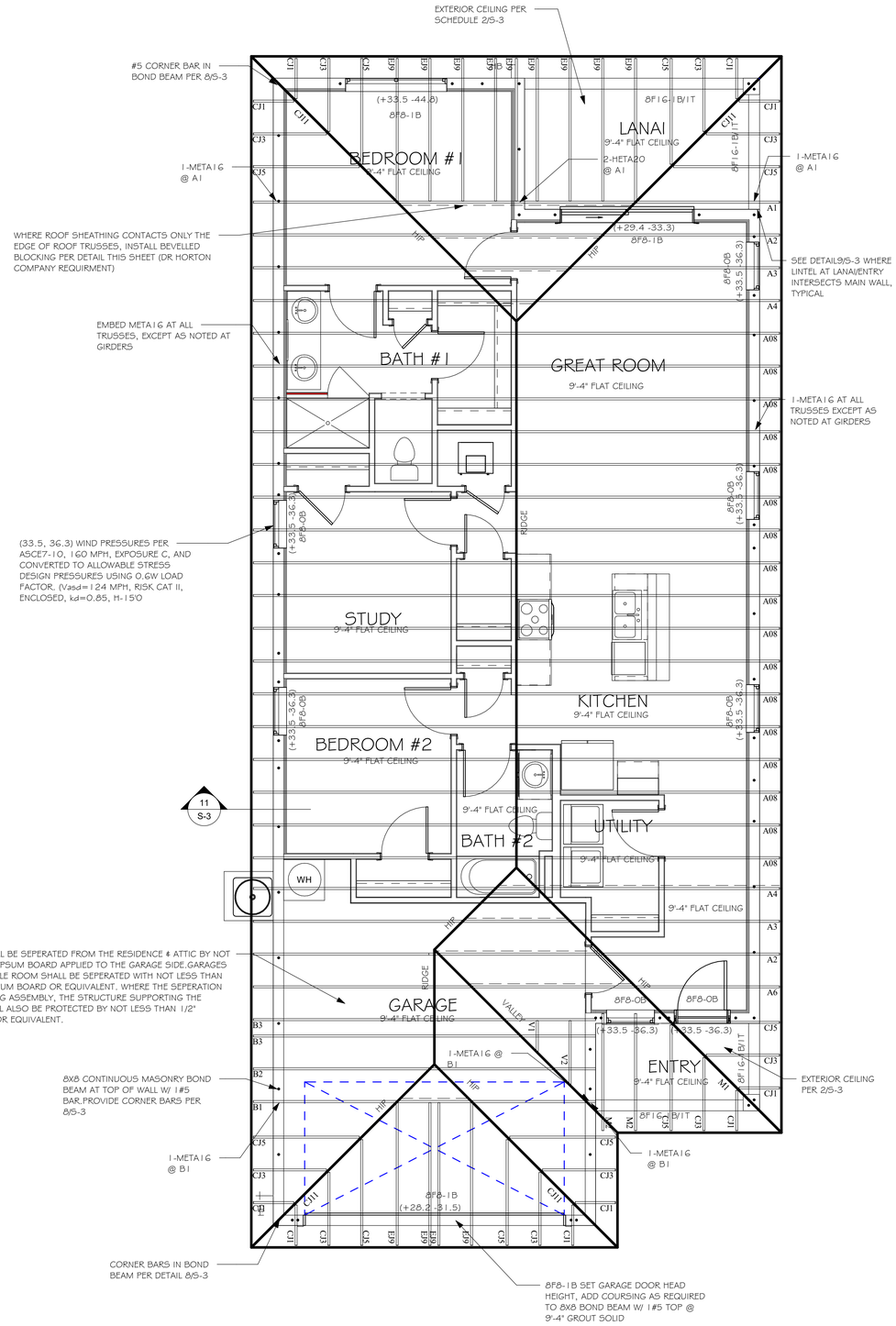
PLAN NOTES:

1. ROOF AND FLOOR TRUSS BEARING ELEVATION VARIES, SEE LEGEND.
2. ROOF AND FLOOR FRAMING SHALL BE WOOD TRUSSES DESIGNED BYA DELEGATED TRUSS ENGINEER PER DESIGN CRITERIA ON SHEET S-3.
3. PROVIDE STRAPPING AT TRUSSES PER NOTES ON THIS SHEET.
4. FOR NAILING OF ROOF AND FLOOR 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 11/S-3.

BEARING HEIGHT

= BEARING @ 9'-4"

TRUSS BEARING CONDITIONS AND STRAPPING IS BASED ON TRUSS LAYOUT PREPARED BY BUILDERS FIRST SOURCE JOB# MASTER DATED: 06/26/20



ROOF FRAMING PLAN "AL"
1/4" = 1'-0"

DESIGN IN ACCORDANCE WITH THE RESIDENTIAL FLORIDA BUILDING CODE 2017 - 6TH EDITION

L:\0-New Data\1-MASTER 2019\2019-BUILDERS\DR HORTON 2019\SUBDIVISION\STOSCANA ISLES 6095\1 785 LOT 761 1444 AL\REV1\1 785 1444 AL.rvt

D·R·HORTON® America's Builder
DHI NYSE

Gulf Coast Drafting & Design, Inc.
EMAIL: PLANS@GULFCOASTDRAFTING.COM
PHONE: 239-540-1822
1515 SE 47TH ST. CAPE CORAL, FL 33904

STRUCTURAL SYSTEMS OF NORTH FLORIDA
1034 SE 47th ST SUITE #3
CAPE CORAL, FL 33904
(239) 549-4554
CA# 8869

DEREK W. BERGENER LICENSE No. 58552 STATE OF FLORIDA PROFESSIONAL ENGINEER

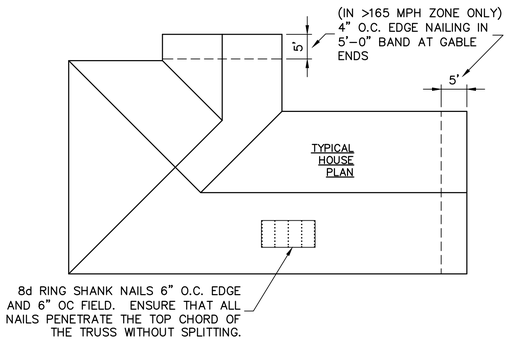
LOT: 761
SUBDIVISION: TOSCANA III 40s
ADDRS: 157 SOLIERA BLVD
D.R.H. #: 5795701.26

MODEL 1444

GCD JOB # 11785

DATE: 08/07/20
DRAWN BY: JSL
CHECKED BY: JWC
REVISED:
PLAN: ROOF FRAMING PLAN
SCALE: As indicated

S-2 AL



1 ROOF DECK NAILING PATTERN

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	**EXTERIOR CEILING AND SOFFIT**
A.P.A. RATED SHEATHING, EXPOSURE 1, SPAN RATING 24/16 OR BETTER. FASTEN WITH 8d RING SHANK NAILS @ 6" O.C. EDGE AND 6" O.C. FIELD. (WHEN ½" ZIP BRAND ROOF SHEATHING IS USED, H-CLIPS ARE NOT REQUIRED) (RING SHANK NAILS PER R803.2.3.1: 0.113" NOMINAL SHANK DIAMETER, RING DIA. OF 0.012" OVER SHANK DIAMETER, 16 TO 20 RINGS PER INCH, 0.280" DIAMETER FULL ROUND HEAD, 2" NAIL LENGTH)	OPTIONS: 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. 3) VINYL OR ALUMINUM PERFORATED SOFFIT INSTALLED PER MANUFACTURER INSTRUCTIONS TO MEET WIND PRESSURES PER R703.1.2.1.

2

NOTE: EXTERIOR CEILINGS AND SOFFITS 1) AND 2) SPECIFIED HERE MEET THE DESIGN WIND PRESSURES PER R703.1.2.1.

WINDOW/DOOR/SOFFIT DESIGN WIND PRESSURES

WIND PRESSURES PER ASCE7-10, 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')

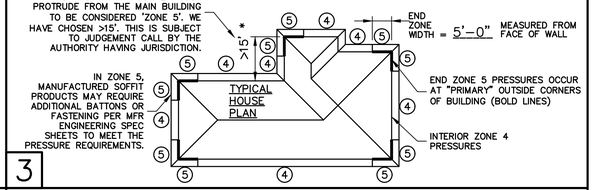
TYPE	INTERIOR ZONE 4	END ZONE 5
SOFFIT	+33.5 -36.3	+33.5 -44.8
TYPICAL WINDOWS & DOORS	+33.5 -36.3	+33.5 -44.8
8' OR 9' GARAGE DOORS	+29.4 -33.3	
16' OR 18' GARAGE DOORS	+28.2 -31.5	

(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 6th EDITION (2017) 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, ASCE7-10
   BASIC WIND SPEED (ASCE7-10) 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, SEE TABLE IN DETAIL 3.
   SOFFITS - PER R703.1.2.1, ALL SOFFITS SHALL BE CAPABLE OF RESISTING THE DESIGN PRESSURES SPECIFIED IN TABLE R301.2(2) FOR WALLS.

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 ACI 530-13
   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.

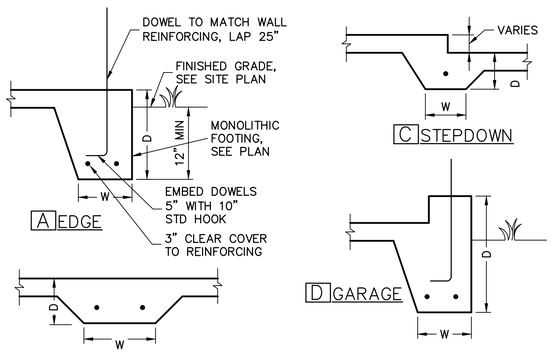
5. DELEGATED-ENGINEERED WOOD ROOF TRUSSES:
   ALL WOOD ROOF TRUSSES SHALL BE DESIGNED BY A DELEGATED TRUSS ENGINEER PER RULE 61G15-31.003 OF THE FLORIDA ADMINISTRATIVE CODE. ALL TRUSSES SHALL HAVE TEMPORARY BRACING PER "COMMENTARY AND RECOMMENDATIONS FOR HANDLING, INSTALLING AND BRACING METAL PLATE CONNECTED 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.

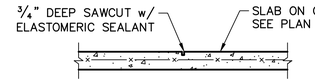
8. MEANS AND METHODS: THE STRUCTURAL ENGINEER SHALL NOT HAVE CONTROL OR BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES, OR SEQUENCES TEMPORARY BRACING, SHORING, GUYING OR OTHER MEANS TO SUPPORT STRUCTURAL ELEMENTS IN PLACE DURING CONSTRUCTION. FOR THE ACTS OR OMISSIONS OF THE 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.



4 MONOLITHIC FOOTINGS

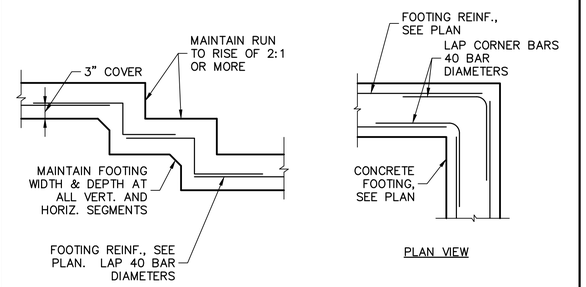
SCALE: 3/4" = 1'-0"



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

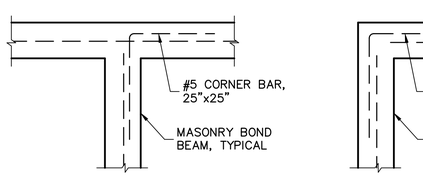


6 STEP FOOTING

SCALE: NTS

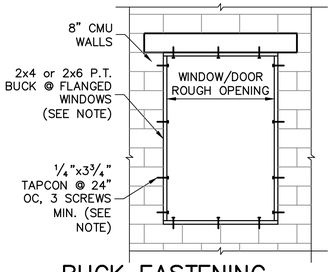
6 FOOTING CORNER BARS

SCALE: NTS

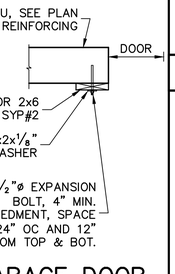


8 CORNER BAR DETAIL IN BOND BEAMS

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



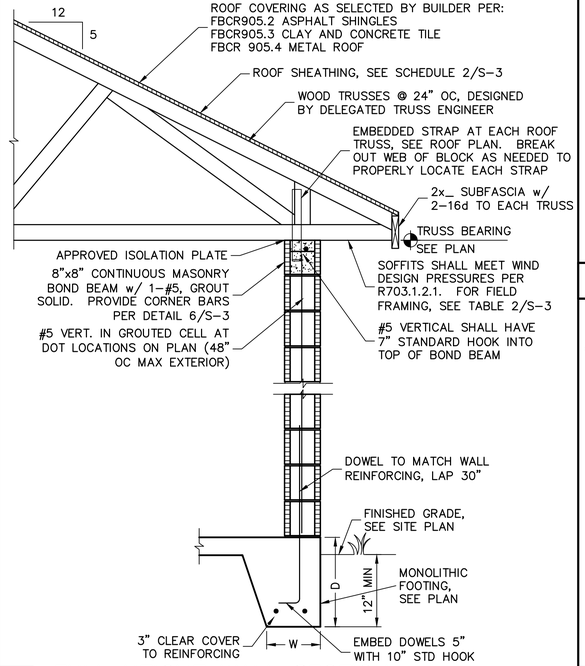
BUCK FASTENING



GARAGE DOOR

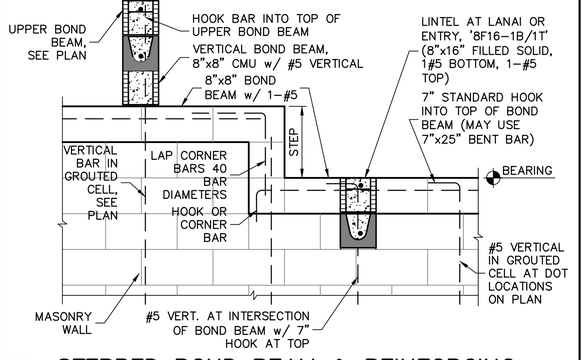
NOTE: THIS BUCK FASTENING DETAIL IS INTENDED FOR FLANGED WINDOW/DOOR PRODUCTS THAT FASTEN THRU THE FLANGE WITH WOOD SCREWS TO THE BUCK. FOR WINDOW/DOOR PRODUCTS THAT DO NOT HAVE A FLANGE AND FASTEN INSTEAD OUTWARD THRU THE FRAME, USE MASONRY SCREWS PER MFR. THAT ARE LONG ENOUGH TO PENETRATE 2-1/4" INTO 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



11 FULL HEIGHT WALL SECTION

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



9 STEPPED BOND BEAM & REINFORCING

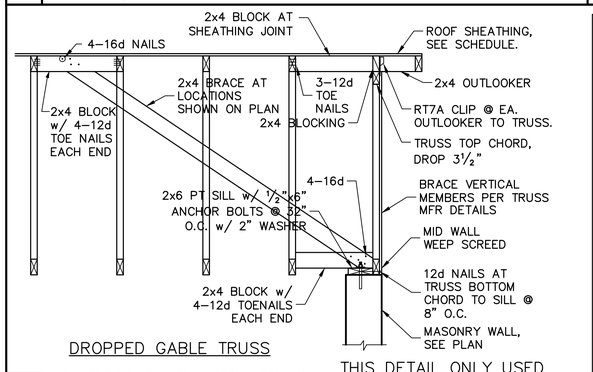
SCALE: 3/4" = 1'-0"

RETROFIT STRAPS TO CONCRETE/MASONRY

TRUSS UPLIFT (LBS) @ 24" OC	CONNECTOR	
TO 1145	1-HTWM16 or 20	8-10dx1½", 4-¼x2¼ CONCRETE SCREW
TO 1145	1-HTWM16 or 20	8-10dx1½", 4-¼x2¼ CONCRETE SCREW
TO 2290	2-HTWM16 or 20	8-10dx1½", 4-¼x2¼ CONCRETE SCREW
TO 4520	2-LUGT2	16-16d, 7-¼"x2¼" CONCRETE SCREW
TO 3610	HTT16	18-10d, ⅝"ø ALLTHREAD, DRILL & EPOXY 10" EMBED w/ USP SET.
TO 9790	HGT-2/3	TWO ¾"ø ALTHREAD, DRILL & EPOXY 12" EMBED WITH USP 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 USP. ALL CONNECTORS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH USP PRINTED INSTRUCTIONS.
3) CONCRETE SCREW SHALL BE WEDGE-BOLT+, TITEN, TAPCON OR EQUIVALENT.

10 RETROFIT UPLIFT CONNECTOR SCHEDULE



12 GABLE END BRACING

SCALE: N.T.S.

At Exterior Stud Walls and Gable Ends with Wall Sheathing,
apply plaster over metal lath over water resistive barrier as follows:
Plaster R703.7.2; 3-coat 7/8" thick portland cement based plaster per ASTM C926.
Metal Lath R703.7.1; 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) R703.7.3; 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).

REVISIONS	BY

STRUCTURAL ENGINEERING:

STRUCTURAL SYSTEMS OF NORTH FLORIDA
1634 S.E. 47th STREET, SUITE #5
CAPE CORAL, FL 33904
(239) 549-4554
CA# 8829

DESIGNED IN ACCORDANCE WITH FLORIDA BUILDING CODE 6th EDITION (2017) RESIDENTIAL

BUILDER: D·R·HORTON America's Builder

FOR BUILDERS FIRST SOURCE TRUSSES, ELEVATION A, JOB # MASTER, DATED: 06/26/20, REVISED: NONE

STRUCTURAL DETAILS
MODEL 1444 A

157 SOLIERA BLVD
VENICE, FLORIDA SUBDIVISION: TOSCANA III 40s
LOT: 761 BLOCK:

DESIGN/DRAWN	DWB/DWB
CHECKED	DWB
DATE	08/05/20
SCALE	VARIES
JOB NO.	DR 11785
SHEET	S-3

SHEET 3 OF 3

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

RE: 1444_A_160_C -

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

Site Information:

Customer Info: DR Horton Project Name: 1444 A 160 C Model: 1444
Lot/Block: MASTER Subdivision: MASTER
Address: MASTER, N/A
City: MASTER State: Florida

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

Name: License #:
Address:
City: State:

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

Design Code: FBC2017/TPI2014 Design Program: MiTek 20/20 8.2
Wind Code: ASCE 7-10 Wind Speed: 160 mph
Roof Load: 50.0 psf Floor Load: N/A psf

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

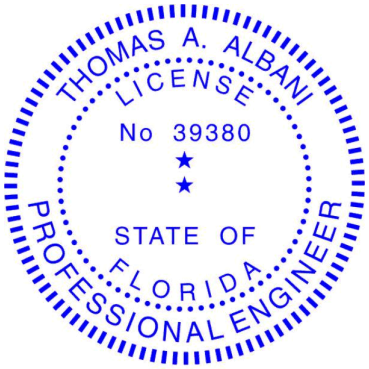
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T20578005	A1	6/26/20	15	T20578019	M1	6/26/20
2	T20578006	A2	6/26/20	16	T20578020	M2	6/26/20
3	T20578007	A3	6/26/20	17	T20578021	V1	6/26/20
4	T20578008	A4	6/26/20	18	T20578022	V2	6/26/20
5	T20578009	A6	6/26/20				
6	T20578010	A08	6/26/20				
7	T20578011	B1	6/26/20				
8	T20578012	B2	6/26/20				
9	T20578013	B3	6/26/20				
10	T20578014	CJ1	6/26/20				
11	T20578015	CJ3	6/26/20				
12	T20578016	CJ5	6/26/20				
13	T20578017	CJ11	6/26/20				
14	T20578018	EJ9	6/26/20				

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

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

Truss Design Engineer's Name: Albani, Thomas
My license renewal date for the state of Florida is February 28, 2021.

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



Thomas A. Albani PE No.39380
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

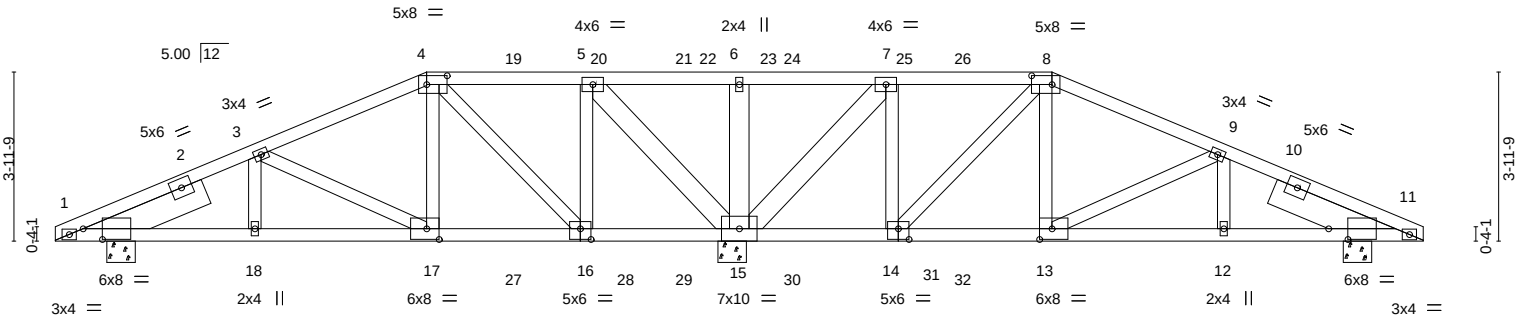
June 26,2020

Job	Truss	Truss Type	Qty	Ply	
1444_A_160_C	A1	Hip Girder	1	1	T20578005
					Job Reference (optional)

Builders FirstSource, Punta Gorda, FL - 33950, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 10:15:37 2020 Page 1
ID:z8fDllDUtzcAQZ7eytnzPIz2SFo-My2XPdKx?FziEgqIlwQFIsveypoD0vYAL6kaNCz2Rha

4-8-2	8-8-8	12-3-8	12-5-8	15-11-8	16-0-8	19-7-8	23-4-8	27-4-14	32-1-0
4-8-2	4-0-6	3-7-0	0-2-0	3-6-0	0-1-0	3-7-0	3-9-0	4-0-6	4-8-2

Scale = 1:54.0



1-2-8	4-8-2	8-8-8	12-3-8	12-5-8	15-10-8	16-0-8	19-7-8	23-4-8	27-4-14	30-10-8	32-1-0
1-2-8	3-5-10	4-0-6	3-7-0	0-2-0	3-5-0	0-2-0	3-7-0	3-9-0	4-0-6	3-5-10	1-2-8

Plate Offsets (X,Y)-- [1:0-5-7,0-3-0], [4:0-5-12,0-2-8], [8:0-5-12,0-2-8], [11:0-5-7,0-3-0], [13:0-3-8,0-3-0], [14:0-3-0,0-3-0], [16:0-3-0,0-3-0], [17:0-3-8,0-3-0]

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	0.76	Vert(LL)	0.07	17-18	>999	240	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.68	Vert(CT)	-0.10	16-17	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.82	Horz(CT)	0.06	11	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-S							Weight: 198 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
6-15,5-15,7-15: 2x6 SP No.2
SLIDER Left 2x8 SP 2400F 2.0E 3-0-0, Right 2x8 SP 2400F 2.0E 3-0-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-4-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-3-6 oc bracing.

REACTIONS. (size) 15=0-8-0, 1=0-8-0, 11=0-8-0
Max Horz 1=128(LC 7)
Max Uplift 15=-2283(LC 8), 1=-550(LC 8), 11=-314(LC 8)
Max Grav 15=5124(LC 1), 1=947(LC 17), 11=968(LC 30)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1846/1020, 3-4=-1395/735, 5-6=-819/1994, 6-7=-819/1994, 8-9=-1430/546, 9-11=-1882/626
BOT CHORD 1-18=-868/1634, 17-18=-868/1634, 16-17=-569/1279, 14-15=-65/363, 13-14=-363/1285, 12-13=-507/1662, 11-12=-507/1662
WEBS 3-17=-452/498, 4-17=-637/1266, 4-16=-1633/810, 7-14=-637/1693, 8-14=-1633/730, 8-13=-511/1298, 9-13=-576/292, 5-16=-764/1693, 6-15=-429/253, 5-15=-2943/1402, 7-15=-2943/1226

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=70ft; L=32ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
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) 15=2283, 1=550, 11=314.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 141 lb down and 114 lb up at 8-8-8, 141 lb down and 107 lb up at 10-9-4, 141 lb down and 107 lb up at 12-9-4, 141 lb down and 107 lb up at 14-9-4, 141 lb down and 107 lb up at 16-0-8, 141 lb down and 107 lb up at 17-3-12, 141 lb down and 107 lb up at 19-3-12, and 141 lb down and 107 lb up at 21-3-12, and 141 lb down and 114 lb up at 23-4-8 on top chord, and 982 lb down and 364 lb up at 8-8-8, 279 lb down and 63 lb up at 10-9-4, 279 lb down and 63 lb up at 12-9-4, 279 lb down and 63 lb up at 14-9-4, 259 lb down and 102 lb up at 17-3-12, 259 lb down and 102 lb up at 19-3-12, and 259 lb down and 102 lb up at 21-3-12, and 912 lb down and 457 lb up at 23-3-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
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

Continued on page 2

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

June 26,2020

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Tampa, FL 36610

LOAD CASE(S) Standard

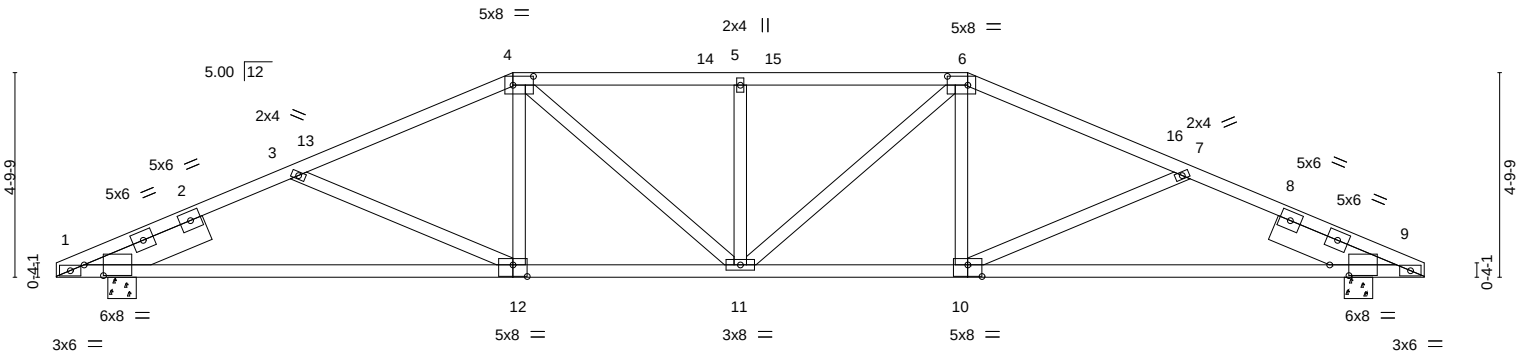
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-4=-80, 4-8=-80, 8-11=-80, 1-11=-20
   Concentrated Loads (lb)
   Vert: 4=-56(B) 8=-56(B) 17=-885(B) 13=-885(B) 6=-56(B) 19=-56(B) 20=-56(B) 21=-56(B) 24=-56(B) 25=-56(B) 26=-56(B) 27=-259(B) 28=-259(B) 29=-259(B) 30=-259(B) 31=-259(B) 32=-259(B)

Job	Truss	Truss Type	Qty	Ply	
1444_A_160_C	A2	Hip	2	1	T20578006
					Job Reference (optional)

Builders FirstSource, Punta Gorda, FL - 33950, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 10:15:39 2020 Page 1
ID:z8fDllDUtzcAQZ7eytnzPlz2SFo-IK9HqJLCWsDPU__8PLTjOH_?wdP9UwmTpQDhS4z2RhY

5-8-2	10-8-8	16-0-8	21-4-8	26-4-14	32-1-0
5-8-2	5-0-6	5-4-0	5-4-0	5-0-6	5-8-2

Scale = 1:54.0



1-2-8	1-6-8	10-8-8	16-0-8	21-4-8	30-6-8	30-10-8	32-1-0
1-2-8	0-4-0	9-2-0	5-4-0	5-4-0	9-2-0	0-4-0	1-2-8

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

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	0.66	Vert(LL)	-0.29	9-10	>999	240	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.91	Vert(CT)	-0.65	9-10	>579	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.12	9	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-S							Weight: 172 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3
SLIDER Left 2x8 SP 2400F 2.0E 3-0-0, Right 2x8 SP 2400F 2.0E 3-0-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-7-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-5-13 oc bracing.

REACTIONS. (size) 1=0-8-0, 9=0-8-0
Max Horz 1=157(LC 11)
Max Uplift 1=-465(LC 12), 9=-465(LC 12)
Max Grav 1=1571(LC 1), 9=1571(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-3240/1430, 3-4=-2764/1177, 4-5=-2778/1307, 5-6=-2778/1307, 6-7=-2764/1177, 7-9=-3240/1430
BOT CHORD 1-12=-1240/2907, 11-12=-875/2487, 10-11=-865/2487, 9-10=-1230/2907
WEBS 3-12=-517/399, 4-12=-37/495, 4-11=-251/497, 5-11=-469/305, 6-11=-251/497, 6-10=-37/495, 7-10=-518/399

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=70ft; L=32ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 0-4-0 to 3-6-8, Interior(1) 3-6-8 to 10-8-8, Exterior(2) 10-8-8 to 15-2-15, Interior(1) 15-2-15 to 21-4-8, Exterior(2) 21-4-8 to 25-10-15, Interior(1) 25-10-15 to 31-9-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
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) 1=465, 9=465.

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

June 26,2020

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
1444_A_160_C	A3	Hip	2	1	T20578007
					Job Reference (optional)

Builders FirstSource, Punta Gorda, FL - 33950, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 10:15:40 2020 Page 1
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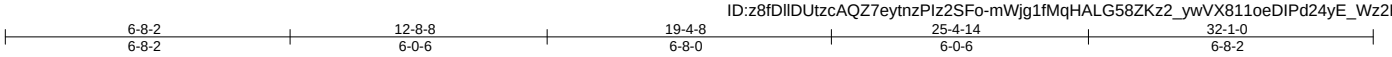

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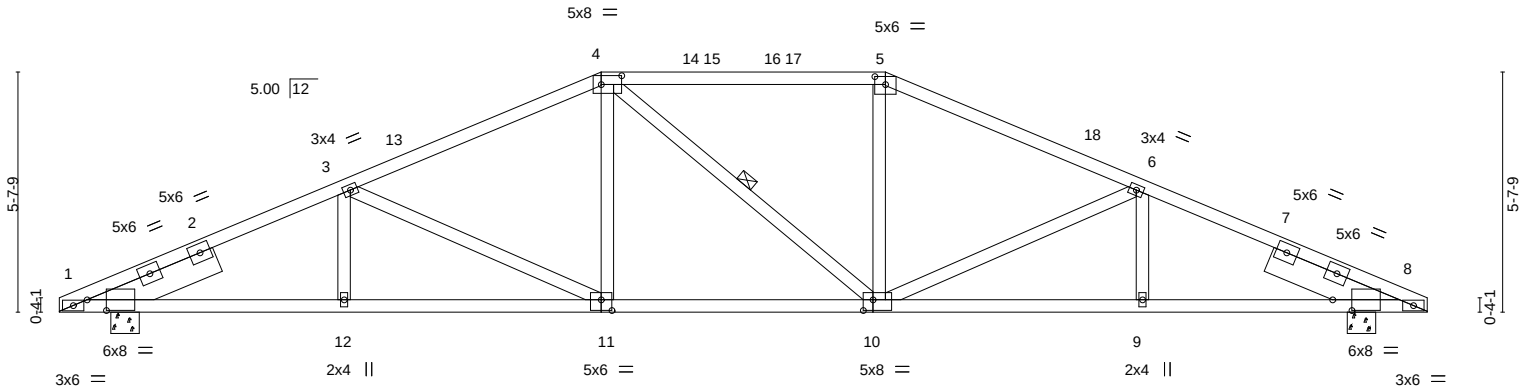

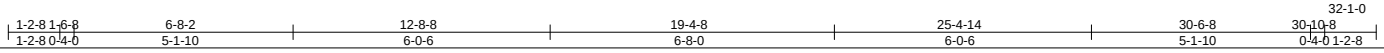

Plate Offsets (X,Y)-- [1:0-5-7,0-3-0], [4:0-5-12,0-2-8], [5:0-3-0,0-2-4], [8:0-5-7,0-3-0], [10:0-2-12,0-3-0], [11:0-3-0,0-3-0]

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	0.83	Vert(LL)	0.16	11	>999	240	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.76	Vert(CT)	-0.33	10-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.14	8	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-S							Weight: 172 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except*
	4-5: 2x4 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
SLIDER	Left 2x8 SP 2400F 2.0E 3-2-4, Right 2x8 SP 2400F 2.0E 3-2-4

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 5-6-9 oc bracing.
WEBS	1 Row at midpt 4-10

REACTIONS. (size) 1=0-8-0, 8=0-8-0
Max Horz 1=-186(LC 10)
Max Uplift 1=-465(LC 12), 8=-465(LC 12)
Max Grav 1=1571(LC 1), 8=1571(LC 1)

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

TOP CHORD	1-3=-3254/1314, 3-4=-2525/1119, 4-5=-2257/1112, 5-6=-2515/1115, 6-8=-3254/1314
BOT CHORD	1-12=-1124/2910, 11-12=-1124/2910, 10-11=-785/2254, 9-10=-1115/2910, 8-9=-1115/2910
WEBS	3-12=0/257, 3-11=-786/376, 4-11=-85/490, 5-10=-102/491, 6-10=-794/378, 6-9=0/259

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=70ft; L=32ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 0-4-0 to 3-6-8, Interior(1) 3-6-8 to 12-8-8, Exterior(2) 12-8-8 to 17-2-15, Interior(1) 17-2-15 to 19-4-8, Exterior(2) 19-4-8 to 23-10-15, Interior(1) 23-10-15 to 31-9-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
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) 1=465, 8=465.

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

June 26,2020

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
1444_A_160_C	A4	Hip	2	1	T20578008
					Job Reference (optional)

Builders FirstSource, Punta Gorda, FL - 33950, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 10:15:41 2020 Page 1
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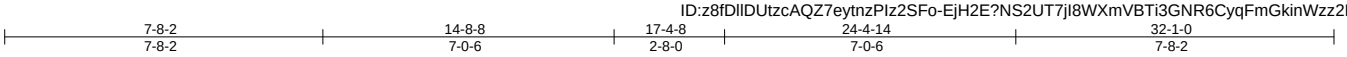

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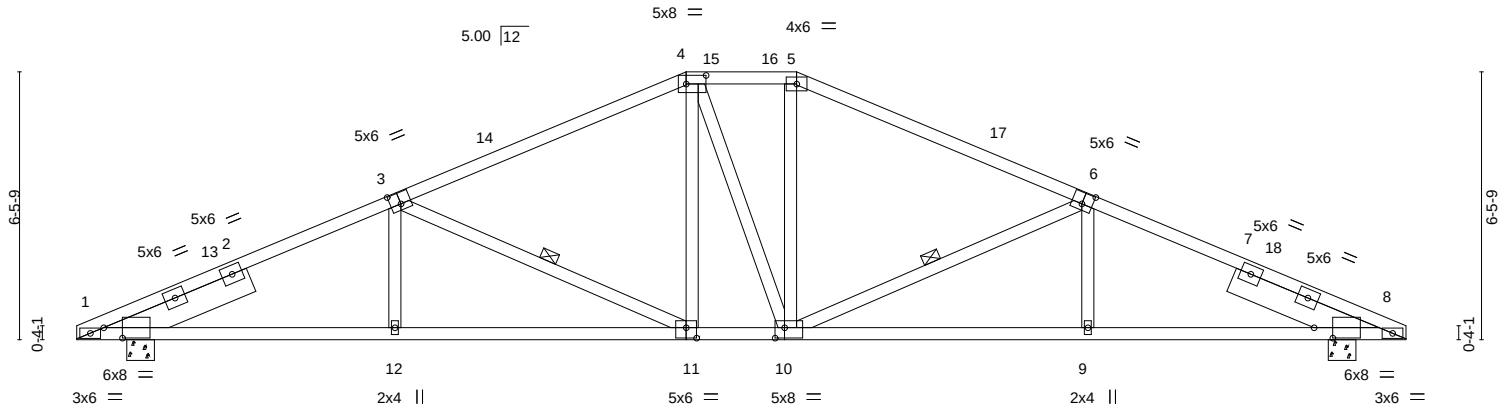

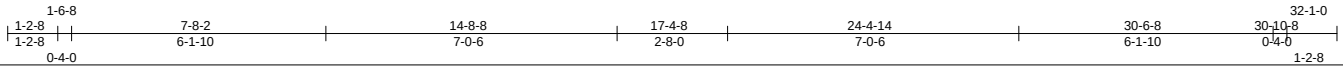

Plate Offsets (X,Y)-- [1:0-5-7,0-3-0], [3:0-3-0,0-3-4], [4:0-5-12,0-2-8], [6:0-3-0,0-3-4], [8:0-5-7,0-3-0], [10:0-2-12,0-3-0], [11:0-3-0,0-3-0]

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	0.99	Vert(LL)	0.16	11-12	>999	240	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.87	Vert(CT)	-0.35	11-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.14	8	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-S							Weight: 180 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
SLIDER	Left 2x8 SP 2400F 2.0E 3-8-12, Right 2x8 SP 2400F 2.0E 3-8-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied or 5-9-0 oc bracing.
WEBS	1 Row at midpt 3-11, 6-10

REACTIONS. (size) 1=0-8-0, 8=0-8-0
Max Horz 1=-215(LC 10)
Max Uplift 1=-465(LC 12), 8=-465(LC 12)
Max Grav 1=1571(LC 1), 8=1571(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-3199/1228, 3-4=-2291/998, 4-5=-2019/1004, 5-6=-2282/995, 6-8=-3199/1227
BOT CHORD 1-12=-1035/2856, 11-12=-1037/2852, 10-11=-631/2016, 9-10=-1028/2851, 8-9=-1025/2855
WEBS 3-12=0/316, 3-11=-986/452, 4-11=-139/496, 5-10=-187/488, 6-10=-993/453, 6-9=0/317

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=70ft; L=32ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 0-4-0 to 3-6-8, Interior(1) 3-6-8 to 14-8-8, Exterior(2) 14-8-8 to 21-10-15, Interior(1) 21-10-15 to 31-9-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
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) 1=465, 8=465.

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

June 26,2020

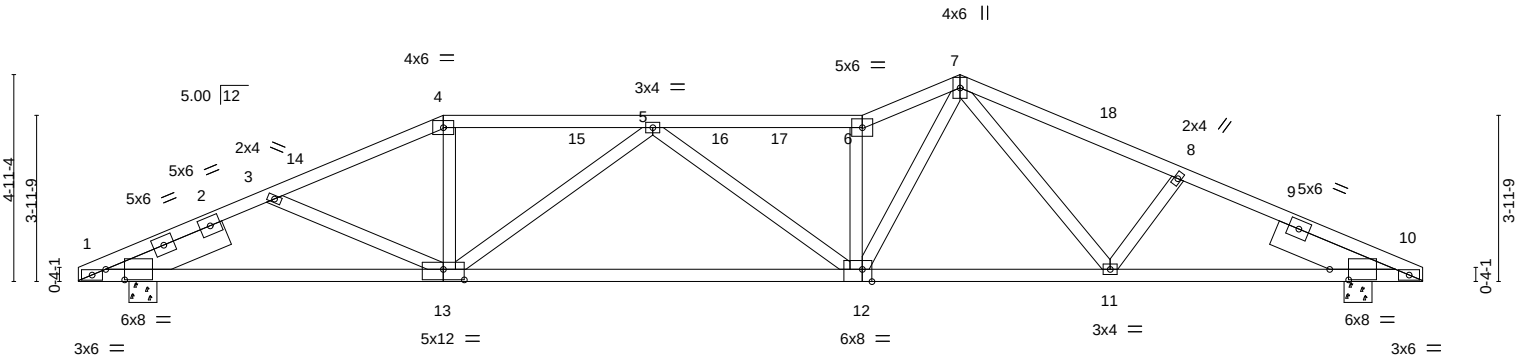
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
1444_A_160_C	A6	Roof Special	1	1	T20578009
					Job Reference (optional)

Builders FirstSource, Punta Gorda, FL - 33950, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 10:15:42 2020 Page 1
ID:z8fDllDUtzcAQZ7eytnzPIz2SFo-jvrQSKN4pnb_LRij5T0Q?wcV5qSBhBtwVORL3Pz2RhV

4-8-2	8-8-8	13-8-8	18-8-8	21-0-8	26-2-14	32-1-0
4-8-2	4-0-6	5-0-0	5-0-0	2-4-0	5-2-6	5-10-2

Scale = 1:55.0



1-2-8	1-6-8	8-8-8	18-8-8	24-7-8	30-6-8	32-1-0 / 30-10-8
1-2-8	0-4-0	7-2-0	10-0-0	5-11-0	5-11-0	0-4-0 1-2-8

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

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	0.73	Vert(LL)	-0.24	12-13	>999	240	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.89	Vert(CT)	-0.66	12-13	>571	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.14	10	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-S							Weight: 171 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.1 *Except*
10-12: 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x8 SP 2400F 2.0E 3-0-0, Right 2x8 SP 2400F 2.0E 3-0-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-3-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-6-14 oc bracing.

REACTIONS. (size) 1=0-8-0, 10=0-8-0
Max Horz 1=-162(LC 10)
Max Uplift 1=-465(LC 12), 10=-465(LC 12)
Max Grav 1=1571(LC 1), 10=1571(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-3300/1364, 3-4=-2983/1194, 4-5=-2695/1160, 5-6=-3302/1385, 6-7=-3597/1533, 7-8=-3042/1269, 8-10=-3274/1305
BOT CHORD 1-13=-1199/2957, 12-13=-1242/3307, 11-12=-815/2414, 10-11=-1103/2934
WEBS 3-13=-328/278, 4-13=-227/769, 5-13=-759/406, 6-12=-1596/754, 7-12=-799/1975, 7-11=-201/554, 8-11=-389/288

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=70ft; L=32ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 0-4-0 to 3-6-8, Interior(1) 3-6-8 to 8-8-8, Exterior(2) 8-8-8 to 11-11-0, Interior(1) 11-11-0 to 21-0-8, Exterior(2) 21-0-8 to 24-3-0, Interior(1) 24-3-0 to 31-9-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
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) 1=465, 10=465.

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Date:

June 26,2020

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
1444_A_160_C	A08	Common	17	1	T20578010
					Job Reference (optional)

Builders FirstSource, Punta Gorda, FL - 33950, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 10:15:35 2020 Page 1
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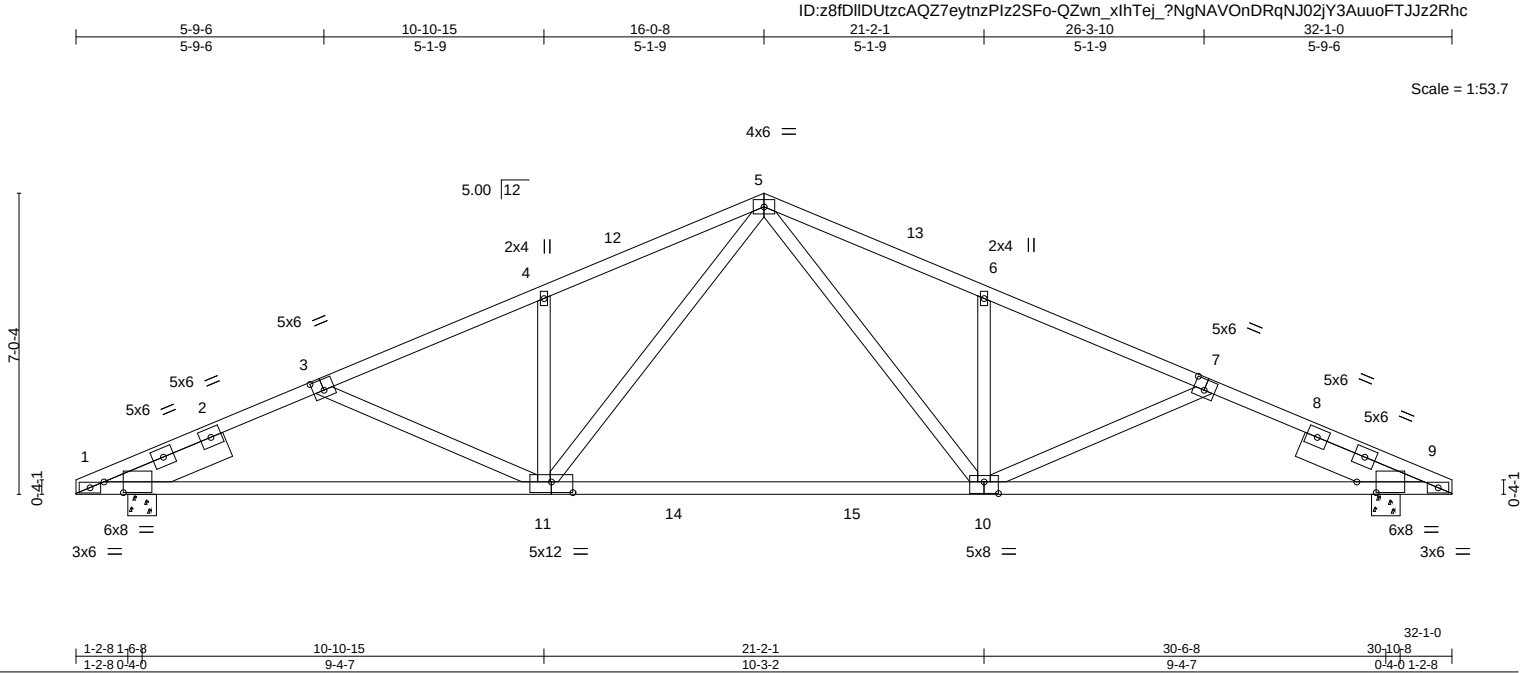

Plate Offsets (X,Y)-- [1:0-5-7,0-3-0], [3:0-3-0,0-3-0], [7:0-3-0,0-3-0], [9:0-5-7,0-3-0], [10:0-4-0,0-3-4], [11:0-6-0,0-3-0]

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	0.45	Vert(LL)	-0.40	10-11	>953	240	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.94	Vert(CT)	-0.66	10-11	>574	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.11	9	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-S							Weight: 172 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3
SLIDER Left 2x8 SP 2400F 2.0E 3-0-0, Right 2x8 SP 2400F 2.0E 3-0-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-1-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 1=0-8-0, 9=0-8-0
Max Horz 1=-234(LC 10)
Max Uplift 1=-465(LC 12), 9=-465(LC 12)
Max Grav 1=1571(LC 1), 9=1571(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-3223/1230, 3-4=-2770/1024, 4-5=-2782/1158, 5-6=-2782/1158, 6-7=-2770/1024, 7-9=-3222/1230
BOT CHORD 1-11=-1020/2996, 10-11=-480/1840, 9-10=-1018/2888
WEBS 5-10=-410/1211, 6-10=-475/331, 7-10=-465/342, 5-11=-410/1211, 4-11=-476/331, 3-11=-464/342

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=70ft; L=32ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 0-4-0 to 3-6-8, Interior(1) 3-6-8 to 16-0-8, Exterior(2) 16-0-8 to 19-3-0, Interior(1) 19-3-0 to 31-9-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 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, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=465, 9=465.

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June 26,2020

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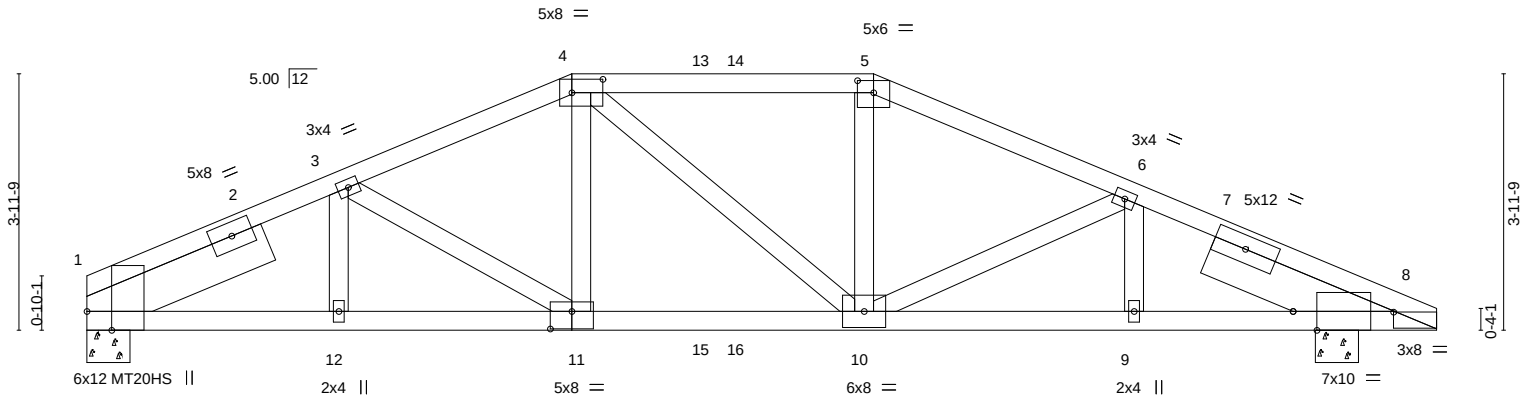
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
1444_A_160_C	B1	Hip Girder	1	1	T20578011
					Job Reference (optional)

Builders FirstSource, Punta Gorda, FL - 33950, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 10:15:43 2020 Page 1
ID:z8fDllDUtzcAQZ7eytnzPIz2SFo-B5PofgOia5jrybHveBXfY79eaEnfQiH3k2Bubrz2RhU

3-10-12	7-6-0	12-2-0	16-2-6	20-10-8
3-10-12	3-7-4	4-8-0	4-0-6	4-8-2

Scale = 1:35.6



3-10-12	7-6-0	12-2-0	16-2-6	19-4-0	19-8-0	20-10-8
3-10-12	3-7-4	4-8-0	4-0-6	3-1-10	0-4-0	1-2-8

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

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	0.88	Vert(LL)	0.21	10-11	>999	240	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.94	Vert(CT)	-0.34	10-11	>733	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.49	Horz(CT)	0.11	8	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-S							Weight: 119 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP M 31 *Except*
	4-5: 2x4 SP No.1, 5-8: 2x4 SP No.2
BOT CHORD	2x4 SP M 31 *Except*
	1-11: 2x4 SP No.1
WEBS	2x4 SP No.3
SLIDER	Left 2x8 SP 2400F 2.0E 3-0-0, Right 2x8 SP 2400F 2.0E 3-0-0

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-1-6 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 5-1-8 oc bracing.

REACTIONS. (size) 1=0-8-0, 8=0-8-0
Max Horz 1=125(LC 24)
Max Uplift 1=-947(LC 8), 8=-894(LC 8)
Max Grav 1=2337(LC 1), 8=2230(LC 1)

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

TOP CHORD	1-3=-4386/1797, 3-4=-4461/1948, 4-5=-4264/1904, 5-6=-4605/1999, 6-8=-4854/1987
BOT CHORD	1-12=-1501/3769, 11-12=-1501/3769, 10-11=-1661/4145, 9-10=-1745/4366, 8-9=-1745/4366
WEBS	3-11=-520/687, 4-11=-426/1132, 5-10=-495/1283, 6-10=-583/471

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=70ft; L=30ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); cantilever right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
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=947, 8=894.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 141 lb down and 113 lb up at 7-6-0, 141 lb down and 107 lb up at 9-6-12, and 141 lb down and 107 lb up at 10-1-4, and 141 lb down and 113 lb up at 12-2-0 on top chord, and 912 lb down and 457 lb up at 7-6-0, 259 lb down and 102 lb up at 9-6-12, and 259 lb down and 102 lb up at 10-1-4, and 912 lb down and 457 lb up at 12-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of 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

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June 26,2020

Continued on page 2

MiTek
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Tampa, FL 36610

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-4=-80, 4-5=-80, 5-8=-80, 1-8=-20

Concentrated Loads (lb)

Vert: 4=-56(F) 5=-56(F) 11=-885(F) 10=-885(F) 13=-56(F) 14=-56(F) 15=-259(F) 16=-259(F)

Job	Truss	Truss Type	Qty	Ply	
1444_A_160_C	B2	Hip	1	1	T20578012
					Job Reference (optional)

Builders FirstSource, Punta Gorda, FL - 33950, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 10:15:44 2020 Page 1
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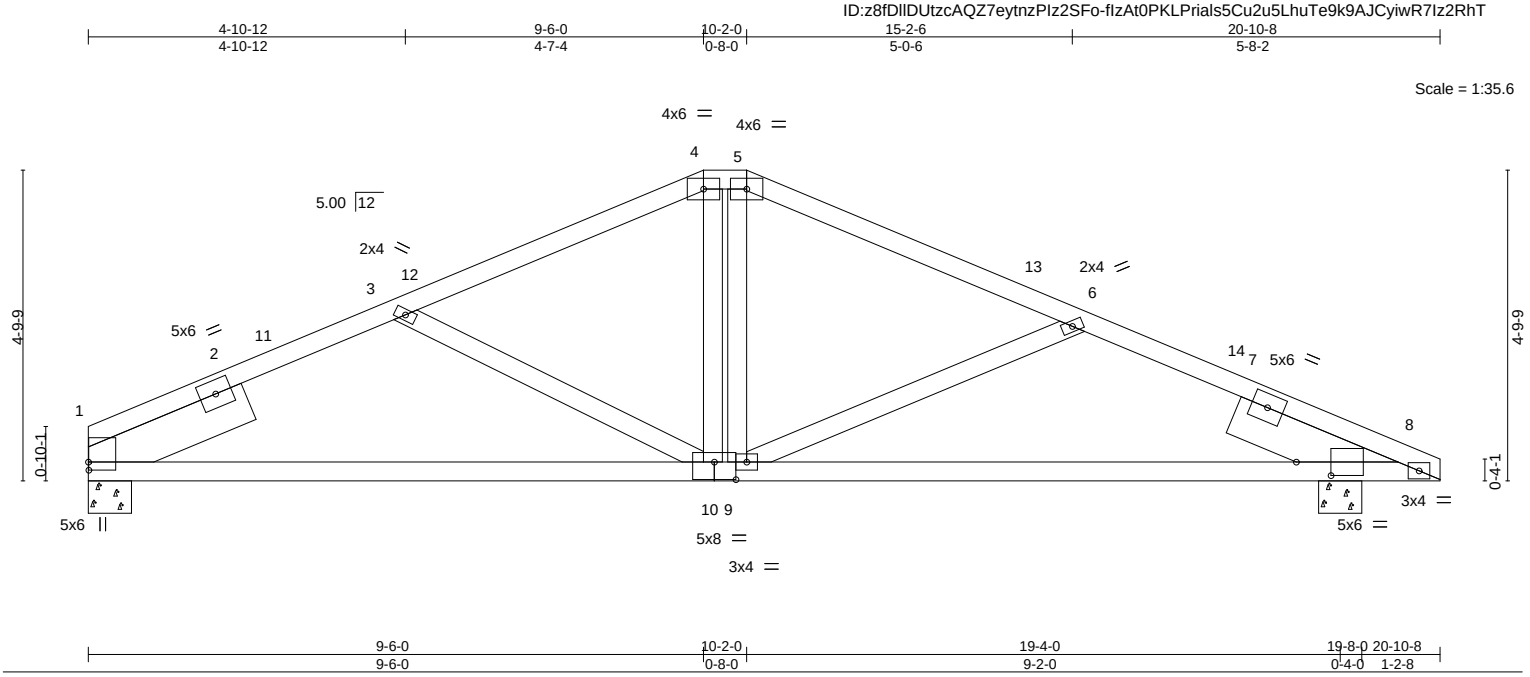

Plate Offsets (X,Y)-- [1:0-1-8,0-0-1], [8:0-6-7,0-2-8], [10:0-4-0,0-3-4]

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	0.48	Vert(LL)	-0.24	8-9	>999	240	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.82	Vert(CT)	-0.52	8-9	>478	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.05	8	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-S							Weight: 110 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3
SLIDER Left 2x8 SP 2400F 2.0E 2-7-12, Right 2x8 SP 2400F 2.0E 2-7-7

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-3-12 oc bracing.

REACTIONS. (size) 1=0-8-0, 8=0-8-0
Max Horz 1=-153(LC 10)
Max Uplift 1=-304(LC 12), 8=-304(LC 12)
Max Grav 1=1027(LC 1), 8=1027(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1750/763, 3-4=-1394/609, 4-5=-1231/612, 5-6=-1410/604, 6-8=-1938/855
BOT CHORD 1-10=-595/1475, 9-10=-325/1231, 8-9=-707/1723
WEBS 3-10=-337/304, 4-10=-159/280, 5-9=-128/374, 6-9=-586/420

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=70ft; L=30ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 9-6-0, Exterior(2) 9-6-0 to 14-4-15, Interior(1) 14-4-15 to 20-6-8 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
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) 1=304, 8=304.

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Thomas A. Albani PE No.39380
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

June 26,2020

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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
1444_A_160_C	B3	Common	2	1	T20578013
					Job Reference (optional)

Builders FirstSource, Punta Gorda, FL - 33950, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 10:15:45 2020 Page 1
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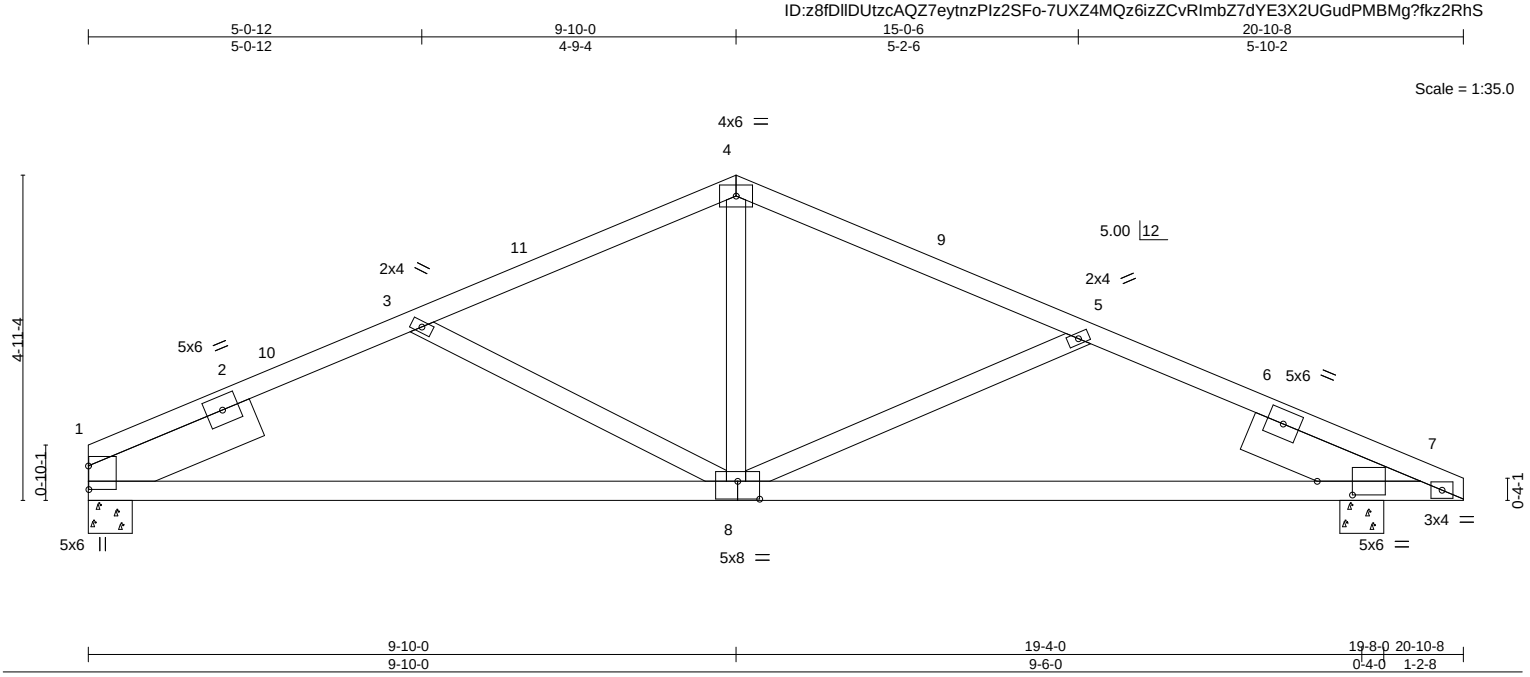

Plate Offsets (X,Y)-- [1:0-4-5,0-0-1], [7:0-6-7,0-2-8], [8:0-4-0,0-3-4]

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	0.46	Vert(LL)	-0.24	7-8	>999	240	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.86	Vert(CT)	-0.52	7-8	>472	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.38	Horz(CT)	-0.05	1	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-S							Weight: 105 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3
SLIDER Left 2x8 SP 2400F 2.0E 2-8-13, Right 2x8 SP 2400F 2.0E 2-8-9

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-10-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-8-8 oc bracing.

REACTIONS. (size) 1=0-8-0, 7=0-8-0
Max Horz 7=-157(LC 10)
Max Uplift 1=-304(LC 12), 7=-304(LC 12)
Max Grav 1=1027(LC 1), 7=1027(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-5=-1396/560, 5-7=-1927/800, 1-3=-1750/724, 3-4=-1377/566
BOT CHORD 1-8=-533/1475, 7-8=-633/1711
WEBS 5-8=-592/396, 4-8=-152/637, 3-8=-361/287

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=70ft; L=30ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 9-10-0, Exterior(2) 9-10-0 to 12-10-0, Interior(1) 12-10-0 to 20-6-8 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=304, 7=304.

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June 26,2020

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Job	Truss	Truss Type	Qty	Ply	
1444_A_160_C	CJ1	Jack-Open	10	1	T20578014
					Job Reference (optional)

Builders FirstSource, Punta Gorda, FL - 33950, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 10:15:45 2020 Page 1
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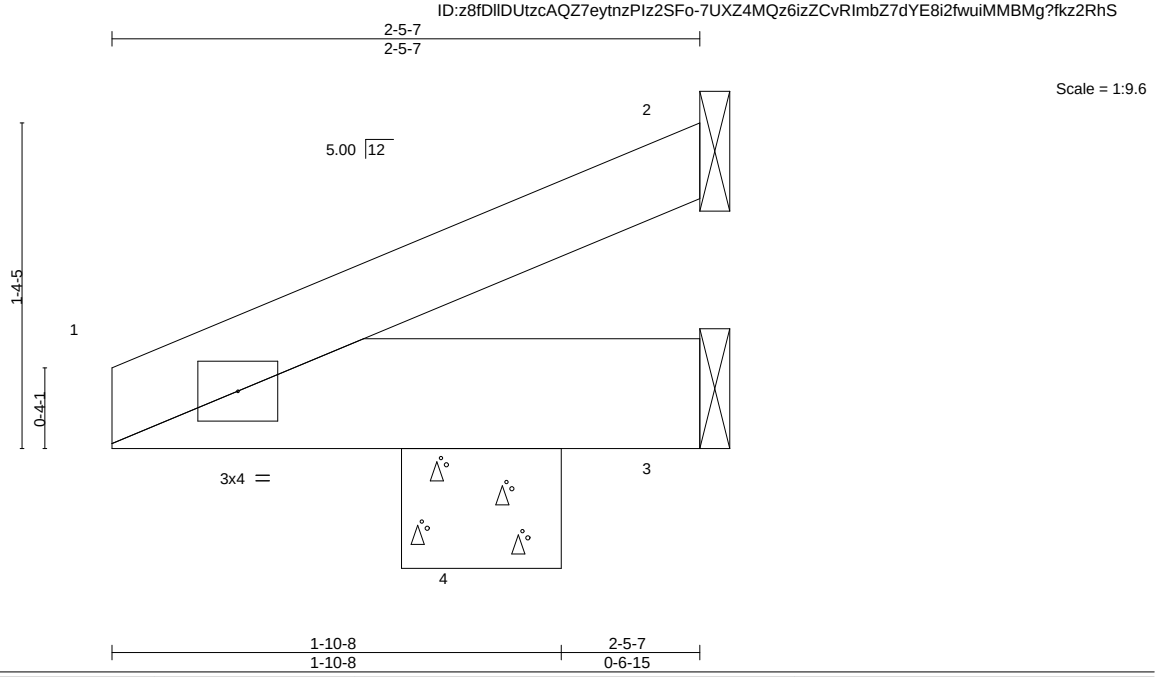

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.13	Vert(LL)	0.00	4	>999	240	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.18	Vert(CT)	0.00	4	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-P							Weight: 10 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 2-5-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=Mechanical, 3=Mechanical, 4=0-8-0
Max Horz 4=51(LC 12)
Max Uplift 2=-60(LC 12), 3=-193(LC 1), 4=-185(LC 12)
Max Grav 2=99(LC 17), 3=114(LC 12), 4=337(LC 1)

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

NOTES-
1) Wind: ASCE 7-10; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=70ft; L=30ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * 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.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 3=193, 4=185.

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Date:

June 26,2020

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	T20578015
1444_A_160_C	CJ3	Jack-Open	10	1	Job Reference (optional)

Builders FirstSource, Punta Gorda, FL - 33950, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 10:15:47 2020 Page 1
ID:z8fDllDUtzcAQZ7eytnzPIz2SFo-3teJV2RDeKEHRDbgt0cbizJQGrJ6Mcsffg96kcz2RhQ

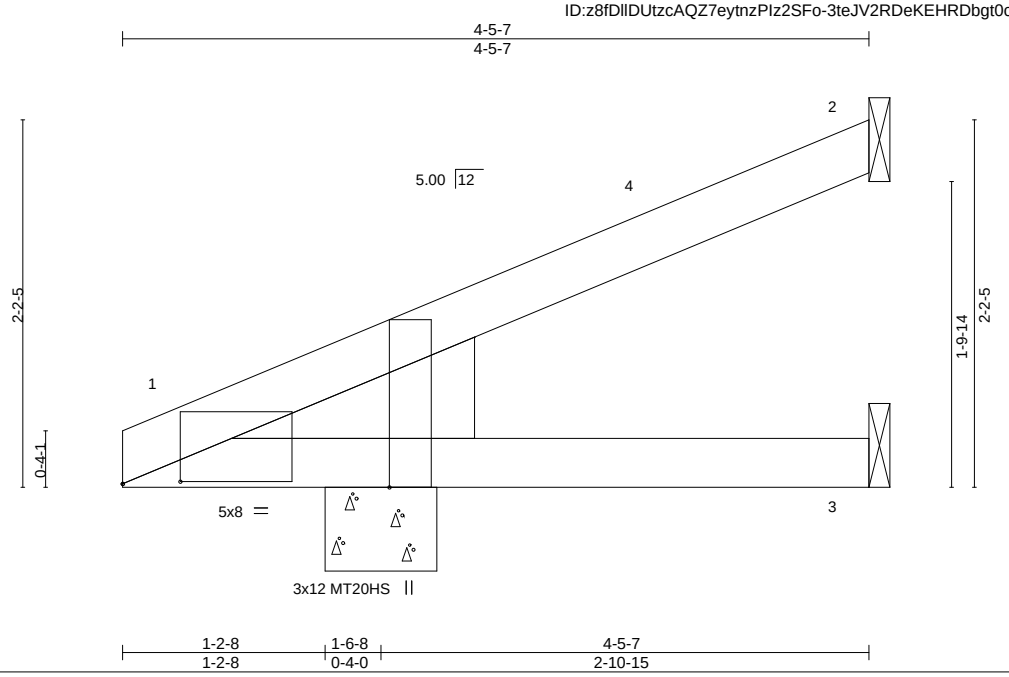

Plate Offsets (X,Y)-- [1:0-4-2,0-0-3], [1:0-0-4,Edge]

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	0.45	Vert(LL)	-0.02	1-3	>999	240	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.20	Vert(CT)	-0.03	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 FBC2017/TPI2014		Matrix-P							Weight: 18 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-5-7 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=100(LC 12)
Max Uplift 2=-107(LC 12), 1=-37(LC 12)
Max Grav 2=170(LC 17), 3=81(LC 3), 1=203(LC 1)

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

NOTES-
1) Wind: ASCE 7-10; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=70ft; L=30ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 0-4-0 to 3-4-0, Interior(1) 3-4-0 to 4-4-11 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) All plates are MT20 plates unless otherwise indicated.
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) 2=107.

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June 26,2020

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Job	Truss	Truss Type	Qty	Ply	
1444_A_160_C	CJ5	Jack-Open	10	1	T20578016
					Job Reference (optional)

Builders FirstSource, Punta Gorda, FL - 33950, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 10:15:47 2020 Page 1
ID:z8fDllDUtzcAQZ7eytnzPIz2SFo-3teJV2RDeKEHRDbgt0cbizJIbrFrMcsffg96kcz2RhQ

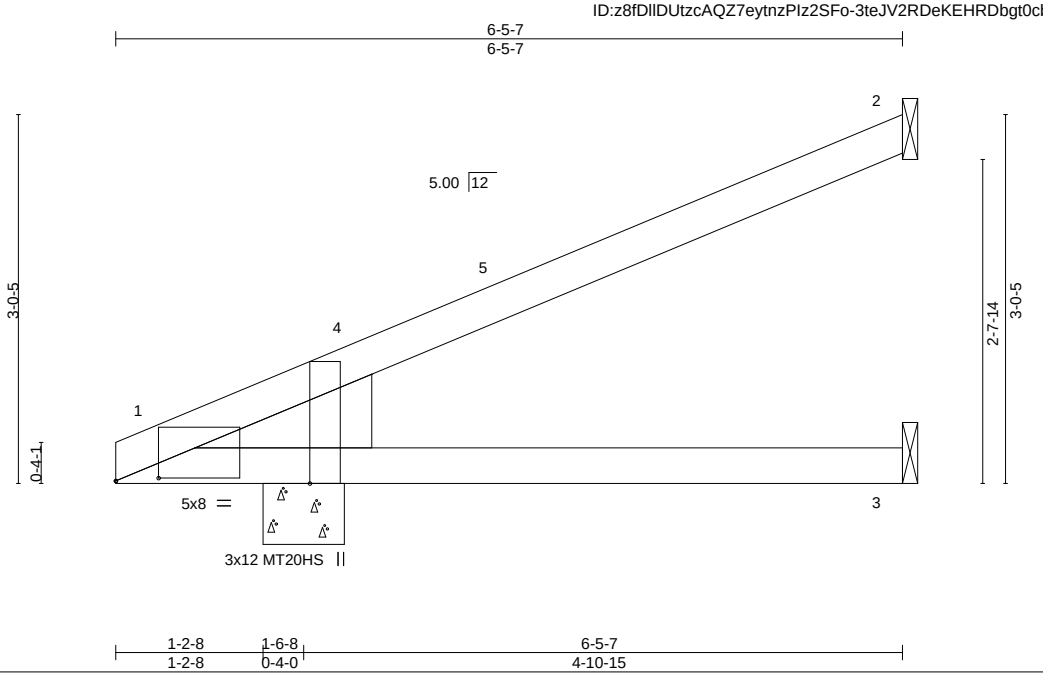

Plate Offsets (X,Y)-- [1:0-4-3,0-0-5], [1:0-0-4,Edge]

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	0.94	Vert(LL)	-0.08	1-3	>900	240	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.47	Vert(CT)	-0.16	1-3	>450	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	FBC2017/TPI2014	Matrix-P							Weight: 25 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 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=145(LC 12)
Max Uplift 2=-158(LC 12), 1=-58(LC 12)
Max Grav 2=254(LC 17), 3=121(LC 3), 1=303(LC 1)

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

NOTES-
1) Wind: ASCE 7-10; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=70ft; L=30ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 0-4-0 to 3-4-0, Interior(1) 3-4-0 to 6-4-11 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) All plates are MT20 plates unless otherwise indicated.
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) 2=158.

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June 26,2020

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Job	Truss	Truss Type	Qty	Ply	
1444_A_160_C	CJ11	Diagonal Hip Girder	4	1	T20578017
					Job Reference (optional)

Builders FirstSource, Punta Gorda, FL - 33950, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 10:15:46 2020 Page 1
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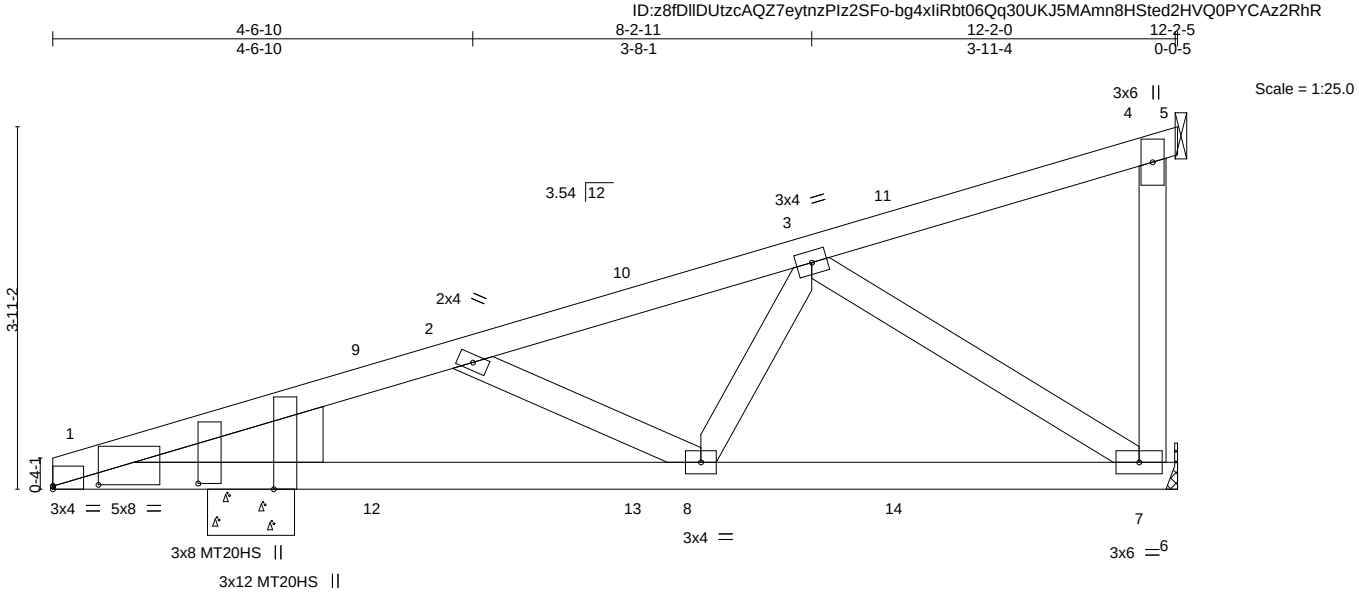

Plate Offsets (X,Y)-- [1:0-5-15,0-0-3], [1:0-0-6,1-6-14], [1:0-0-6,Edge], [1:Edge,0-0-6]

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)	-0.20	1-8	>683	240	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.60	Vert(CT)	0.20	1-8	>700	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.47	Horz(CT)	-0.02	4	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-S							Weight: 62 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP M 31
WEBS 2x4 SP No.3
WEDGE
Left: 2x8 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-2-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-2-9 oc bracing.

REACTIONS. (size) 7=Mechanical, 1=0-11-5, 4=Mechanical
Max Horz 1=194(LC 24)
Max Uplift 7=-327(LC 8), 1=-406(LC 8), 4=-118(LC 8)
Max Grav 7=730(LC 28), 1=759(LC 28), 4=179(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1768/863, 2-3=-1362/659
BOT CHORD 1-8=-972/1649, 7-8=-602/1032
WEBS 2-8=-440/310, 3-8=-209/509, 3-7=-1209/723

NOTES-
1) Wind: ASCE 7-10; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=70ft; L=30ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); cantilever left exposed ; Lumber DOL=1.60 plate grip DOL=1.60
2) All plates are MT20 plates unless otherwise indicated.
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) except (jt=lb) 7=327, 1=406, 4=118.
8) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 128 lb down and 80 lb up at 3-6-11, 128 lb down and 80 lb up at 3-6-11, 177 lb down and 137 lb up at 6-4-10, 177 lb down and 137 lb up at 6-4-10, and 235 lb down and 200 lb up at 9-2-9, and 235 lb down and 200 lb up at 9-2-9 on top chord, and 97 lb down and 221 lb up at 3-6-11, 97 lb down and 221 lb up at 3-6-11, 25 lb down at 6-4-10, 25 lb down at 6-4-10, and 65 lb down at 9-2-9, and 65 lb down at 9-2-9 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-80, 4-5=-40, 1-6=-20

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June 26,2020

Continued on page 2

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LOAD CASE(S) Standard

Concentrated Loads (lb)

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

Job	Truss	Truss Type	Qty	Ply	
1444_A_160_C	EJ9	Jack-Partial	13	1	T20578018
					Job Reference (optional)

Builders FirstSource, Punta Gorda, FL - 33950, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 10:15:48 2020 Page 1
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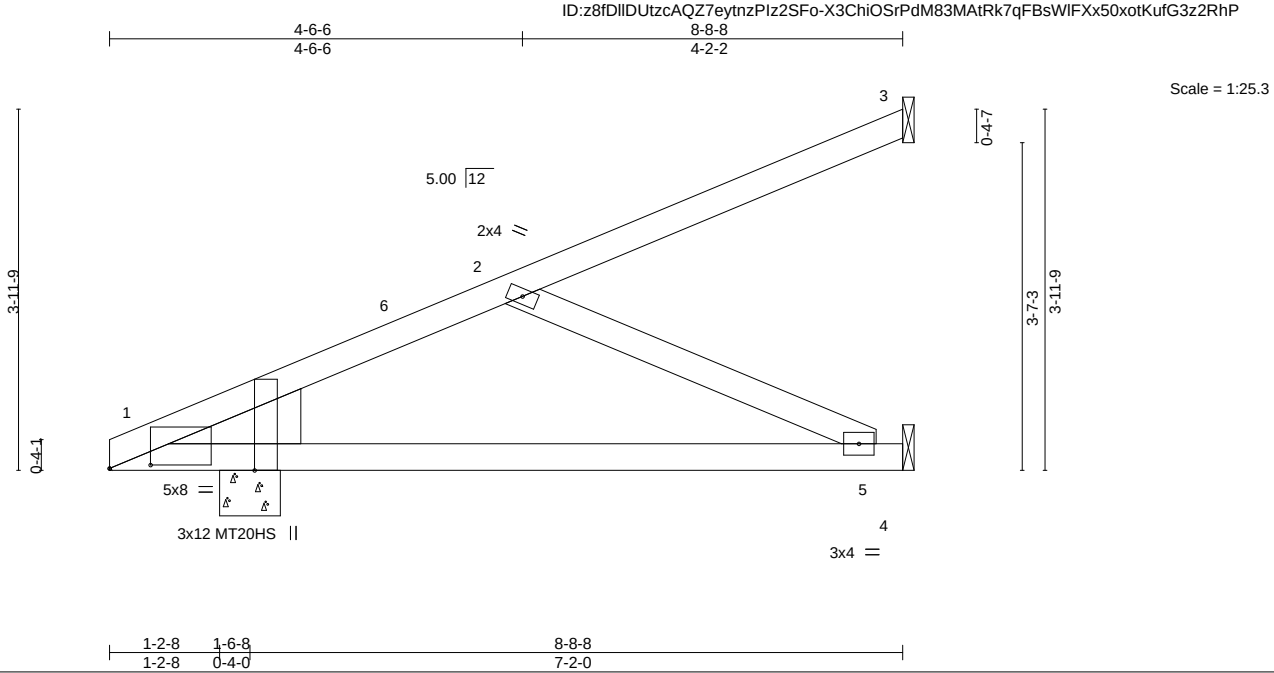

Plate Offsets (X,Y)-- [1:0-5-6,0-0-7], [1:0-0-4,Edge]

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	0.72	Vert(LL)	-0.25	1-5	>399	240	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.74	Vert(CT)	-0.52	1-5	>192	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-P							Weight: 38 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3
WEDGE
Left: 2x8 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-10-8 oc bracing.

REACTIONS. (size) 3=Mechanical, 4=Mechanical, 1=0-8-0
Max Horz 1=195(LC 12)
Max Uplift 3=-84(LC 12), 4=-82(LC 12), 1=-80(LC 12)
Max Grav 3=142(LC 17), 4=289(LC 17), 1=416(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-528/256
BOT CHORD 1-5=-464/468
WEBS 2-5=-513/510

NOTES-
1) Wind: ASCE 7-10; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=70ft; L=30ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 0-4-0 to 3-4-0, Interior(1) 3-4-0 to 8-7-12 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) All plates are MT20 plates unless otherwise indicated.
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, 4, 1.

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June 26,2020

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Job	Truss	Truss Type	Qty	Ply	
1444_A_160_C	M1	Roof Special Girder	1	1	T20578019
					Job Reference (optional)

Builders FirstSource, Punta Gorda, FL - 33950, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 10:15:49 2020 Page 1
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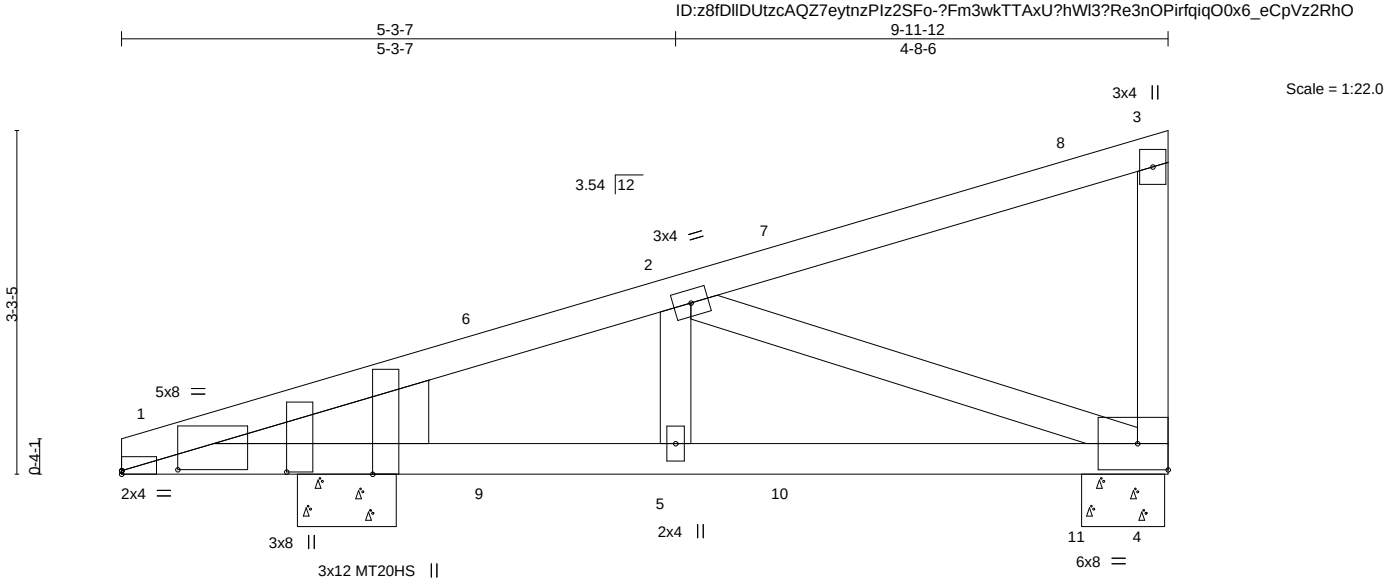

1-8-2	2-1-13	5-3-7	5-11-0	9-11-6	9-11-12
1-8-2	0-5-11	3-1-10	0-7-10	4-0-6	0-0-6

Plate Offsets (X,Y)-- [1:0-6-7,0-0-2], [1:0-0-2,1-6-14], [1:0-0-6,Edge], [1:Edge,0-0-6]

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)	-0.11	1-5	>999	240	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.96	Vert(CT)	-0.11	1-5	>999	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.53	Horz(CT)	0.02	4	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-S							Weight: 49 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x8 SP 2400F 2.0E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-11-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-8-12 oc bracing.

REACTIONS. (size) 4=0-9-8, 1=0-11-5
Max Horz 1=157(LC 24)
Max Uplift 4=-500(LC 8), 1=-332(LC 8)
Max Grav 4=896(LC 28), 1=589(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1286/702, 3-4=-437/303
BOT CHORD 1-5=-778/1191, 4-5=-778/1191
WEBS 2-4=-1214/806, 2-5=-225/271

NOTES-
1) Wind: ASCE 7-10; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=70ft; L=30ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); cantilever left exposed ; Lumber DOL=1.60 plate grip DOL=1.60
2) All plates are MT20 plates unless otherwise indicated.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=500, 1=332.
6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 128 lb down and 80 lb up at 3-6-11, 128 lb down and 80 lb up at 3-6-11, 177 lb down and 137 lb up at 6-4-10, 177 lb down and 137 lb up at 6-4-10, and 219 lb down and 199 lb up at 9-2-9, and 219 lb down and 199 lb up at 9-2-9 on top chord, and 97 lb down and 221 lb up at 3-6-11, 97 lb down and 221 lb up at 3-6-11, 25 lb down at 6-4-10, and 25 lb down at 6-4-10, and 80 lb down at 9-2-9 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
7) 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: 7=-98(F=-49, B=-49) 8=-322(F=-161, B=-161) 9=269(F=135, B=135) 10=-25(F=-12, B=-12) 11=-40(F)

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June 26,2020

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Job	Truss	Truss Type	Qty	Ply	
1444_A_160_C	M2	Monopitch	2	1	T20578020
					Job Reference (optional)

Builders FirstSource, Punta Gorda, FL - 33950, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 10:15:49 2020 Page 1
ID:z8fDllDUtzcAQZ7eytnzPIz2SFo-?Fm3wkTTAxU?hWl3?Re3nOPgqfz_qWMx6_eCpVz2RhO

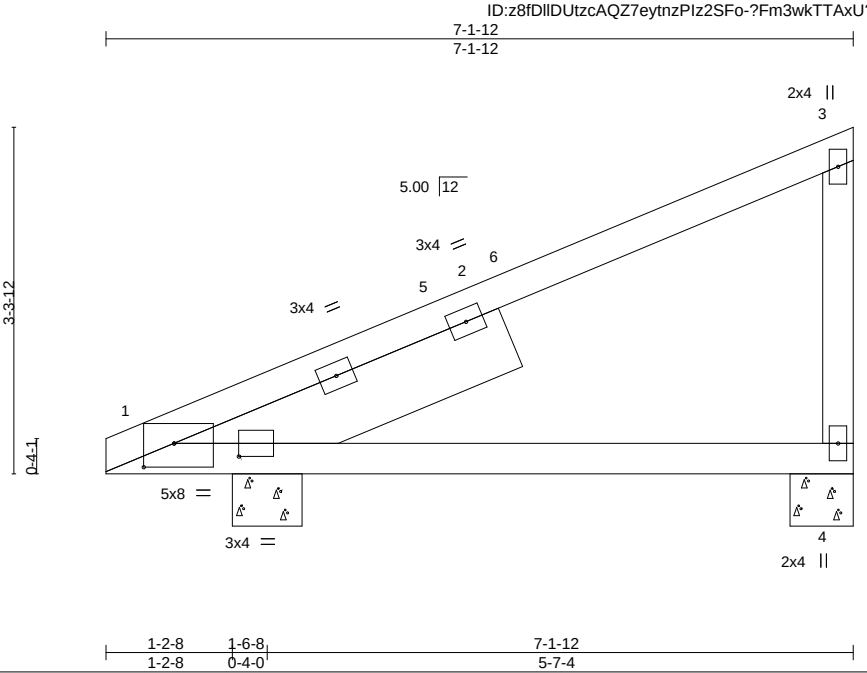

Plate Offsets (X,Y)-- [1:0-7-7,0-1-8], [1:0-3-8,0-2-12]

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	0.83	Vert(LL)	0.29	1-4	>275	240	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.36	Vert(CT)	0.24	1-4	>336	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-P							Weight: 37 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP M 31
WEBS 2x4 SP No.3
SLIDER Left 2x8 SP 2400F 2.0E 3-4-5

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

REACTIONS. (size) 4=0-7-4, 1=0-8-0
Max Horz 1=158(LC 12)
Max Uplift 4=-262(LC 12), 1=-192(LC 12)
Max Grav 4=333(LC 1), 1=333(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-279/310

NOTES-
1) Wind: ASCE 7-10; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=70ft; L=30ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 0-4-0 to 3-4-0, Interior(1) 3-4-0 to 7-0-0 zone; cantilever left exposed ; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * 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.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=262, 1=192.

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

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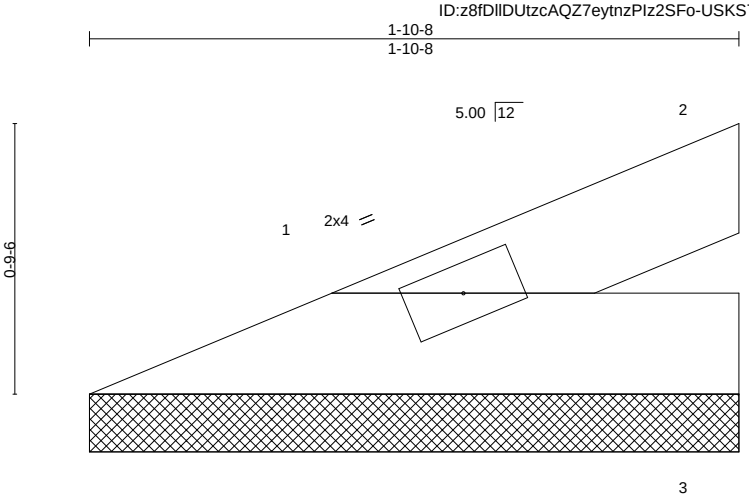
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

June 26,2020

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
1444_A_160_C	V1	Valley	1	1	T20578021
					Job Reference (optional)

Builders FirstSource, Punta Gorda, FL - 33950, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 10:15:50 2020 Page 1
ID:z8fDllDUtzcAQZ7eytnzPIz2SFo-USKS74U5xFcrIgKFZ99IKcx143OiZzb5LeNmLxz2RhN



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	0.03	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-P							Weight: 5 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 1-10-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=1-10-8, 2=1-10-8, 3=1-10-8
Max Horz 1=26(LC 12)
Max Uplift 1=-12(LC 12), 2=-29(LC 12)
Max Grav 1=57(LC 1), 2=48(LC 17), 3=23(LC 3)

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

NOTES-
1) Wind: ASCE 7-10; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=70ft; L=30ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) Gable requires continuous bottom chord bearing.
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) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 2.

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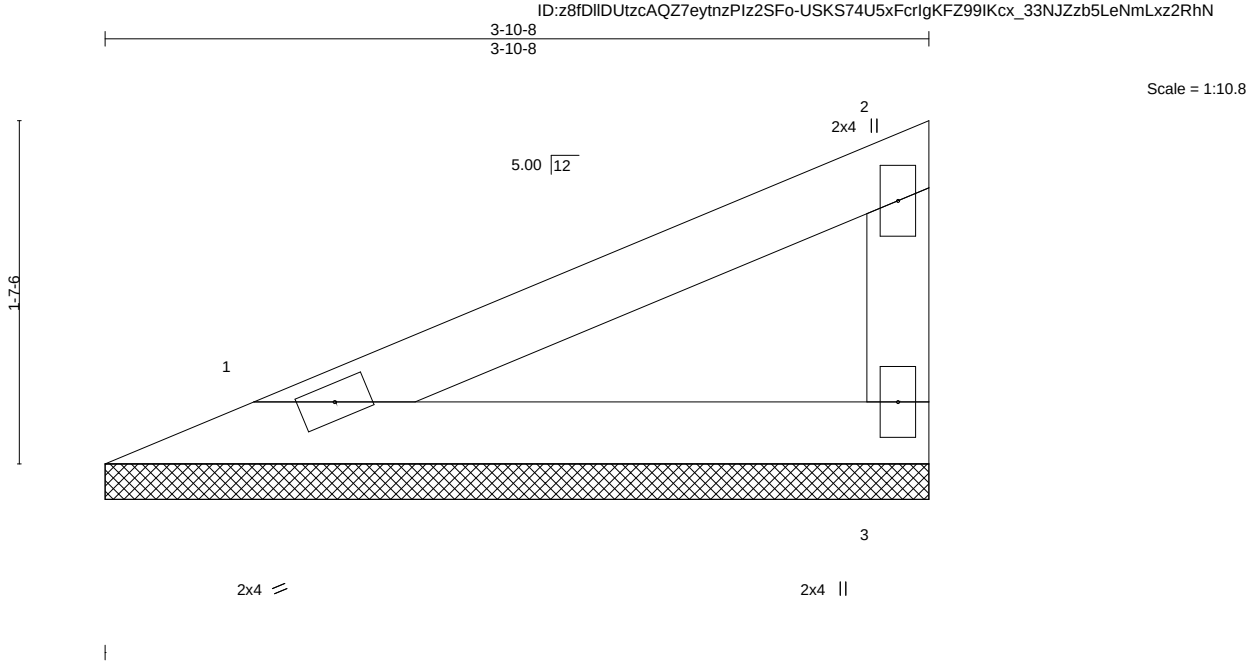
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
1444_A_160_C	V2	Valley	1	1	T20578022
					Job Reference (optional)

Builders FirstSource, Punta Gorda, FL - 33950, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Jun 26 10:15:50 2020 Page 1
ID:z8fDllDUtzcAQZ7eytnzPIz2SFo-USKS74U5xFcrIgKFZ99IKcx_33NJZzb5LeNmLxz2RhN



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)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.25	BC	0.10	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-P							Weight: 12 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 3-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=3-10-8, 3=3-10-8
Max Horz 1=67(LC 12)
Max Uplift 1=-30(LC 12), 3=-58(LC 12)
Max Grav 1=150(LC 1), 3=155(LC 17)

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

NOTES-
1) Wind: ASCE 7-10; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=70ft; L=30ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) Gable requires continuous bottom chord bearing.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

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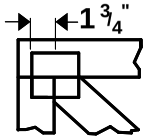
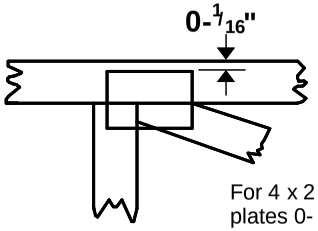
Symbols

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.

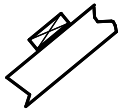
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

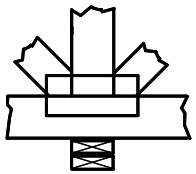
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

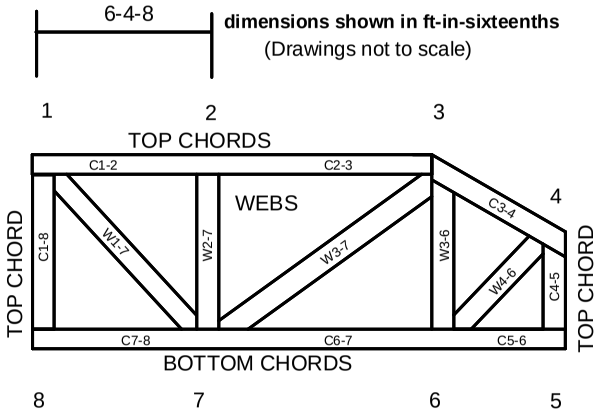


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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. 10/03/2015

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.