Maronda Systems

Maronda Systems 4005 Maronda Way Sanford FL 32771 (407) 321-0064 Fax (407) 321-3913
Engineer/Architect of Record: **Carl Brown P.E. 258 Southhall Lane, Suite 200 Maitland, Fl 32751 FL PE # 56126**
Engineer/Architect of Record: **Luis Jose Burgos Pasado, P.E. 258 Southhall Lane, Suite 200 Maitland, Fl 32751 FL PE # 92724**
Engineer/Architect of Record: **Scott A Lewkowski P.E. 258 Southhall Lane, Suite 200 Maitland, FL 32751 FL PE # 78750**
Design Criteria: TPI Design: Matrix Analysis MiTek software

PLAN JOB #	LOT	ADDRESS	DIV/SUB	MODEL
9FC00401	004 - 1	TBD SW CADENCE GLEN LAKE CITY, FL 32024	JAW/9FC	MEMJ32F/LH

MEMPHIS J BASE

This structure was designed in accordance with, and meets the requirements of TPI standards and the FLORIDA BUILDING CODE 8thTH EDITION (2023) for 160 M.P.H. Wind Zone. Exposure C Truss loading is in accordance with ASCE 7-22. These trusses are designed for an enclosed building. With risk category II.

The Truss Engineering package for the above referenced site was generated by the Truss Designer/Architect/MiTek.

I, the Delegated Truss Engineer for the above referenced lot Have reviewed the package and confirmed that it matches the physical and structural Parameters found on the set of permit drawings.

Columbia County Building Department — Plans Reviewed for Code Compliance — State of Florida

Truss ID	Run Date	Drawing Reviewed	Truss ID	Run Date	Drawing Reviewed
Layout	11/14/23				
REACTION SUMMARY	11/14/23				
MII web plate	2017				
OR1	2009				
ST-4ply Screw	2012				
VC1	2009				
TN1	2009				
ST-Rep01A1	2014				
G15	11/14/23				
G21	11/14/23				
G22	11/14/23				
GP8	11/14/23				
H01	11/14/23				
H02	11/14/23				
H03	11/14/23				
H04	11/14/23				
H05	11/14/23				
H06	11/14/23				
H08	11/14/23				
H14	11/14/23				
HGR07	11/14/23				
HGR09	11/14/23				
J16F	11/14/23				
J16PF	11/14/23				
J20	11/14/23				
J36F	11/14/23				
J36PF	11/14/23				
J56F	11/14/23				
J56PF	11/14/23				
J76F	11/14/23				
J76PF	11/14/23				
JGR76F	11/14/23				
JGR76PF	11/14/23				
LT01	11/14/23				
T01	11/14/23				
T11	11/14/23				
T12	11/14/23				
T13	11/14/23				

INV #	DESC	QNTY
050060.0110	JUS26	
050060.0047	THD28	
050060.0049	THD28-2	
050060.0106	HUS26	
050060.0272	HUS179	
050060.0058	HJC26	3
050060.0312	HJC26-SK60	
SEAT PLATES		
FLOOR SEAT PLATES		

No. of Eng. Dwgs:	38
Roof Loads-	
TC Live:	16.0 psf
TC Dead:	7.0 psf
BC Live:	0.0 psf
BC Dead:	10.0 psf
Total	33.0 psf
DurFac- Lbr:	1.25
DurFac- Plt:	1.25
O.C. Spacing:	24.0"
Floor Loads-	
TC Live:	40.0 psf
TC Dead:	10.0 psf
BC Live:	0.0 psf
BC Dead:	5.0 psf
Total	55.0 psf
DurFac- Lbr:	1.00
DurFac- Plt:	1.00
O.C. Spacing:	24.0"

TSG — Making Dreams Come True
TOTAL SOLUTIONS GROUP
258 Southhall Lane, Suite 200
Maitland, Florida, 32751
(407) 680 2333
CA No. 9161
100% Employee Owned
myTSGhome.com
☐ CARL A. BROWN, PE - FL # 56126
☐ SCOTT A. LEWKOWSKI, PE - FL # 78750
☐ THIEN BAO DUONG, PE - FL # 94452

SCOTT A LEWKOWSKI LICENSE No. 78750 STATE OF FLORIDA PROFESSIONAL ENGINEER

1-17-25

TO THE BEST OF THE ENGINEER'S KNOWLEDGE AND UNDERSTANDING, THE STRUCTURAL PLANS AND SPECIFICATIONS COMPLY WITH THE FLORIDA BUILDING CODE SIGNED AND SEALED FOR THE STRUCTURAL PORTION OF THIS DRAWING.

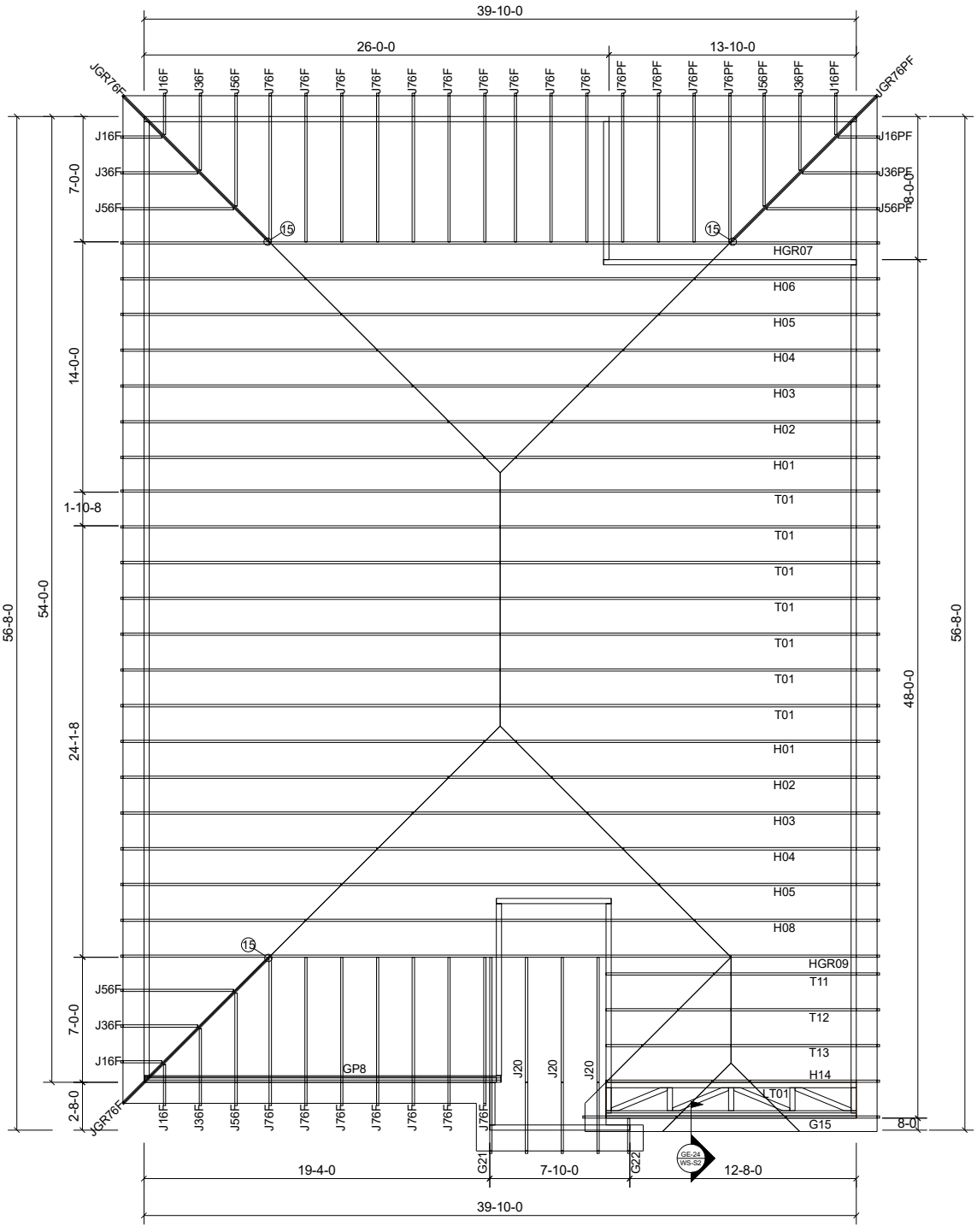
Signing Date: 01/21/2025

		EXPOSURE	C
TC LIVE	16.0 lb/ft²	SNOW LOAD	0.00
TC DEAD	7.0 lb/ft²	LUMBER DOL	1.25
BC LIVE	0.0 lb/ft²	PLATE DOL	1.25
BC DEAD	10.0 lb/ft²	WIND	160.0 mph Vasd=124.0 mph
TOTAL	33.0 lb/ft²	SPACING	24" O.C.

GENERAL TRUSS NOTES:

1. INFORMATION BASED ON 160.0 MPH WIND LOAD. ALL PRESSURES WERE CALCULATED USING MWFRS/C-C HYBRID WIND ASCE 7-22.
2. PROVIDE TRUSS BRACING PER TRUSS ENGINEERING AND BCSI I-03.

TRUSS PLACEMENT PLAN



MEMPHIS 'J' FRAME GARAGE LEFT

MARONDA Homes
4005 Maronda Way
Sanford, FL 32771
(407) 321-0064

CUSTOMER:Maronda Systems
Model: MEMPHIS
ELEVATION: J - FRAME
DRAWN BY: E. RIOS
RELEASE DATE: 11/15/2023
GARAGE: LEFT

TSG
Making Dreams Come True
TOTAL SOLUTIONS GROUP
258 Southhall Lane, Suite 200
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1-17-25

TO THE BEST OF THE ENGINEER'S KNOWLEDGE AND UNDERSTANDING, THE STRUCTURAL PLANS AND SPECIFICATIONS COMPLY WITH THE FLORIDA BUILDING CODE SIGNED AND SEALED FOR THE STRUCTURAL PORTION OF THIS DRAWING.

FLORIDA:

THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF SECTION R301 OF THE FLORIDA BUILDING CODE 8th EDITION (2023): RESIDENTIAL. ALL CONNECTORS HAVE BEEN CHECKED TO WITHSTAND ALL APPLICABLE LOADS AND DESIGN CRITERIA STATED ON THE COVER SHEET.

DEFINITIONS

MWF = MAIN WIND FORCE
C&C = COMPONENTS AND CLADDING
TOB = TOP OF BEARING
TC = TOP CHORD
BC = BOTTOM CHORD
LL = LIVE LOAD
DL = DEAD LOAD
psf = POUNDS PER SQUARE FOOT
# = POUNDS

LOADS PER FBC & FRC

* NON-CONCURRENT BC LL 10psf
CONCURRENT STORAGE BC LL 20 psf

SHEET:

TR1

TEMPLATE REVISION DATE 10/09/23: CDH

Page 1 of 1

MARONDA HOMES INC. of
4005 MARONDA WAY
SANFORD, FL. 32771
(407) 321-9877 Fax: (407) 688-8522

Project: Memphis
Model: J Frame (base)

Block No:
Lot No:

Contact:	Site:	Office:
Name:		
Phone:		
Fax:		

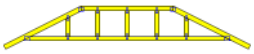
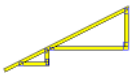
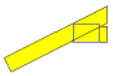
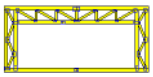
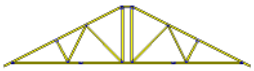
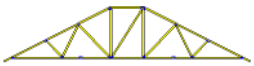
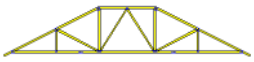
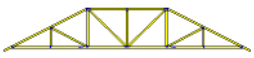
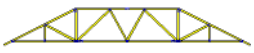
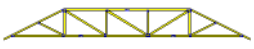
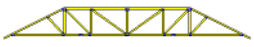
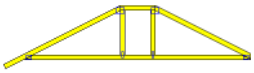
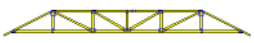
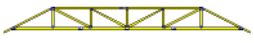
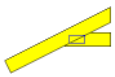
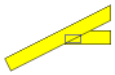
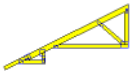
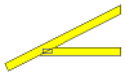
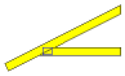
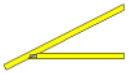
To:
Valued Customer
,

Deliver To:

Reaction

Job Number:
Page: 1
Date: 11/15/23 15:50:19

Account No: 000000001
Designer:
Estimator:
Salesperson: Inside Sales
Quote Number:
P.O. Number:

	Qty:	Truss Id:	Span:	Truss Type:	Slope	Reactions:
	1	**G15**	**14-00-00**	HIP	**6.00**	Joint 2 156.61 -88.50; Joint 10 156.61 -99.87; Joint 12 179.69 -101.55; Joint 13 114.82 -59.73; Joint 14 141.72 -74.41
	1	**G21**	**09-08-00**	MONOPITCH	**6.00**	Joint 2 84.62; Joint 5 202.11 -145.47; Joint 6 409.47 -296.89
	1	**G22**	**00-08-00**	MONOPITCH	**6.00**	Joint 2 151.93 -173.15; Joint 4 267.32 -222.22
	1	**GP8**	**19-11-00**	ROOF SPECIAL	**0.00**	Joint 18 1135.07 -943.57; Joint 19 1970.70 -1616.29; Joint 21 1098.67 -864.82; Joint 22 1889.18 -1908.36
	2	**H01**	**39-10-00**	HIP	**6.00**	Joint 2 1551.38 -581.74; Joint 9 1551.39 -581.74
	2	**H02**	**39-10-00**	HIP	**6.00**	Joint 2 1560.94 -587.08; Joint 9 1563.81 -587.08
	2	**H03**	**39-10-00**	HIP	**6.00**	Joint 2 1534.08 -591.84; Joint 8 1534.08 -591.84
	2	**H04**	**39-10-00**	HIP	**6.00**	Joint 2 1542.65 -596.01; Joint 8 1542.65 -596.01
	2	**H05**	**39-10-00**	HIP	**6.00**	Joint 2 1538.35 -599.58; Joint 10 1538.35 -599.58
	1	**H06**	**39-10-00**	HIP	**6.00**	Joint 2 1371.17 -602.57; Joint 10 1371.17 -602.57
	1	**H08**	**39-10-00**	HIP	**6.00**	Joint 2 424.93 -229.14; Joint 10 620.06 -335.84; Joint 15 1101.68 -539.33; Joint 16 659.78 -372.59
	1	**H14**	**14-00-00**	HIP	**6.00**	Joint 2 521.16 -239.27; Joint 5 459.51 -188.50
	1	**HGR07**	**39-10-00**	HIP GIRDER	**6.00**	Joint 2 372.17 -348.16; Joint 9 1482.71 -930.33; Joint 14 3745.15 -2757.81
	1	**HGR09**	**39-10-00**	HIP GIRDER	**6.00**	Joint 2 398.17 -273.35; Joint 9 971.88 -645.03; Joint 14 2572.78 -1805.59; Joint 15 1010.95 -640.13
	4	**J16F**	**01-00-00**	JACK-OPEN	**6.00**	Joint 2 124.60 -93.33; Joint 3 8.65 -2.45; Joint 4 19.76 -5.59
	2	**J16PF**	**01-00-00**	JACK-OPEN	**6.00**	Joint 2 124.60 -93.33; Joint 3 5.83 -5.73; Joint 4 19.76 -6.97
	3	**J20**	**09-08-00**	MONOPITCH	**6.00**	Joint 2 362.73 -156.80; Joint 8 306.11 -224.20
	4	**J36F**	**03-00-00**	JACK-OPEN	**6.00**	Joint 2 165.49 -88.57; Joint 3 53.84 -61.82; Joint 4 31.23
	2	**J36PF**	**03-00-00**	JACK-OPEN	**6.00**	Joint 2 165.49 -88.57; Joint 3 53.84 -61.82; Joint 4 31.22 -23.72
	4	**J56F**	**05-00-00**	JACK-OPEN	**6.00**	Joint 2 226.68 -103.94; Joint 3 98.36 -114.55; Joint 4 57.51

MARONDA HOMES INC. of
4005 MARONDA WAY
SANFORD, FL. 32771
(407) 321-9877 Fax: (407) 688-8522

Project: Memphis
Model: J Frame (base)
Block No:
Lot No:

Contact:	Site:	Office:
Name:		
Phone:		
Fax:		

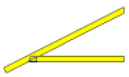
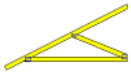
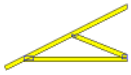
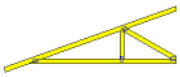
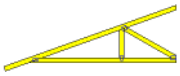
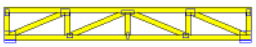
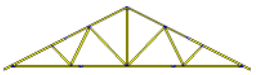
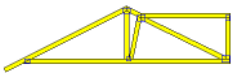
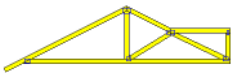
To:
Valued Customer
,

Deliver To:

Reaction

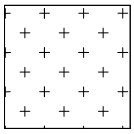
Job Number:
Page: 2
Date: 11/15/23 15:50:23

Account No: 000000001
Designer:
Estimator:
Salesperson: Inside Sales
Quote Number:
P.O. Number:

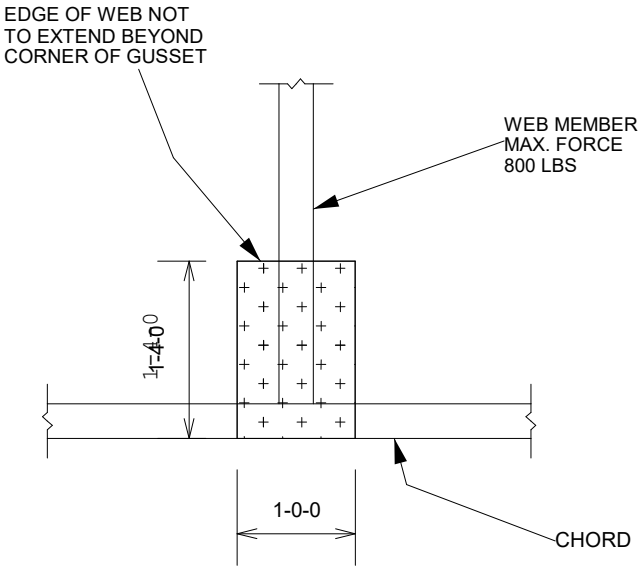
	Qty:	Truss Id:	Span:	Truss Type:	Slope	Reactions:
	2	**J56PF**	**05-00-00**	JACK-OPEN	**6.00**	Joint 2 226.68 -103.94 Joint 3 98.36 -114.55 Joint 4 57.51 -41.65
	17	**J76F**	**07-00-00**	JACK-OPEN	**6.00**	Joint 2 292.07 -122.82 Joint 4 64.09 -94.19 Joint 5 159.64 -65.54
	4	**J76PF**	**07-00-00**	JACK-OPEN	**6.00**	Joint 2 292.07 -129.78 Joint 4 64.21 -94.32 Joint 5 159.52 -115.71
	2	**JGR76F**	**09-09-05**	DIAGONAL HIP	**4.24**	Joint 2 553.05 -391.75 Joint 4 62.18 -81.85 Joint 5 347.25 -166.57 Joint 6 135.31 -189.26 Joint 8 897.05 -407.93
	1	**JGR76PF**	**09-09-05**	DIAGONAL HIP	**4.24**	Joint 2 446.20 -423.17 Joint 4 62.37 -78.92 Joint 5 347.05 -343.80
	1	**LT01**	**14-00-00**	LAY-IN GABLE	**0.00**	Joint 6 1645.00 -1370.83 Joint 10 1645.00 -1370.83
	7	**T01**	**39-10-00**	COMMON	**6.00**	Joint 2 1564.17 -579.19 Joint 10 1564.17 -579.19
	1	**T11**	**14-00-00**	ROOF SPECIAL	**6.00**	Joint 2 516.37 -233.63 Joint 6 454.67 -207.23
	1	**T12**	**14-00-00**	ROOF SPECIAL	**6.00**	Joint 2 516.37 -234.43 Joint 6 454.67 -193.73
	1	**T13**	**14-00-00**	ROOF SPECIAL	**6.00**	Joint 2 516.37 -234.92 Joint 6 454.67 -185.51

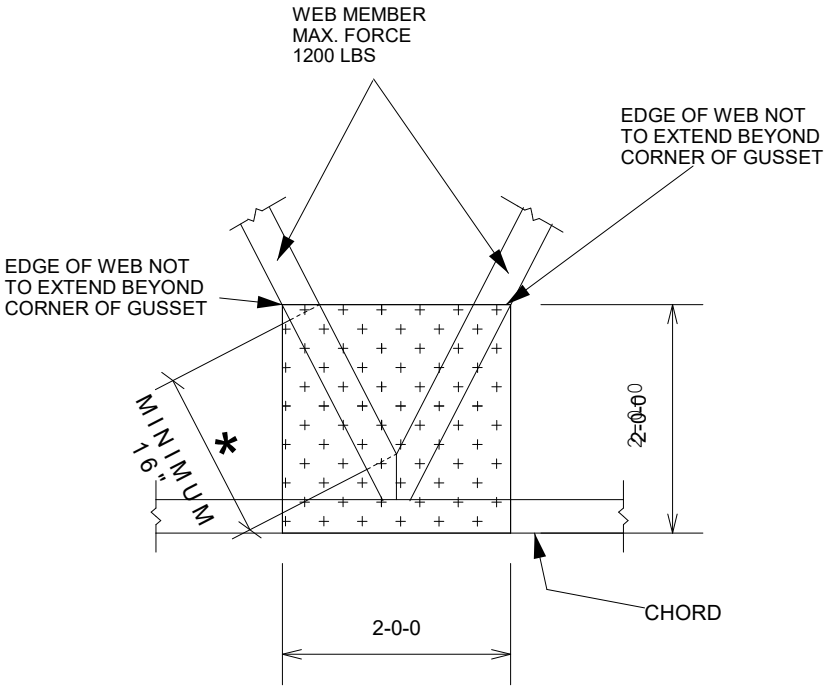
MiTek USA, Inc.

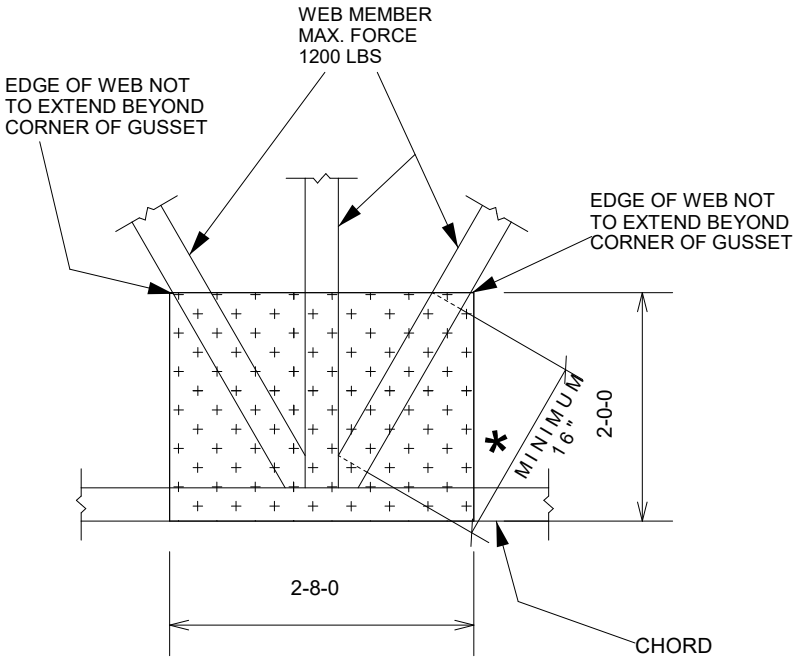
1. ALL MATERIAL IS 2x4
2. THIS DETAIL IS APPLICABLE FOR DESIGNS WITH DOLS. OF 1.15 OR 1.25 AND LUMBER SPECIES SP, DF, HF, OR SPF.
3. DETAIL SHALL BE USED FOR CONDITIONS OF A MISSING OR LOOSE CONNECTOR PLATE ONLY.
4. CHORD MATERIAL IS CONTINUOUS THROUGH JOINT, THERE IS NO MAXIMUM CHORD FORCE AND NO SPLICE PERMITTED.
5. REFER TO MITEK DESIGN DRAWING FOR WEB FORCES.



ATTACH 1/2" PLYWOOD OR OSB GUSSET (15/32" RATED SHEATHING 32/16 EXP 1) TO EACH FACE OF TRUSS WITH (0.131" X MIN 2.5") NAILS IN 3 ROWS SPACED @ 4" O.C. NAILS TO BE DRIVEN FROM BOTH FACES. STAGGER SPACING FROM FRONT TO BACK FACE FOR A NET 2" O.C. SPACING IN THE TRUSS. USE 2" MEMBER END DISTANCE.

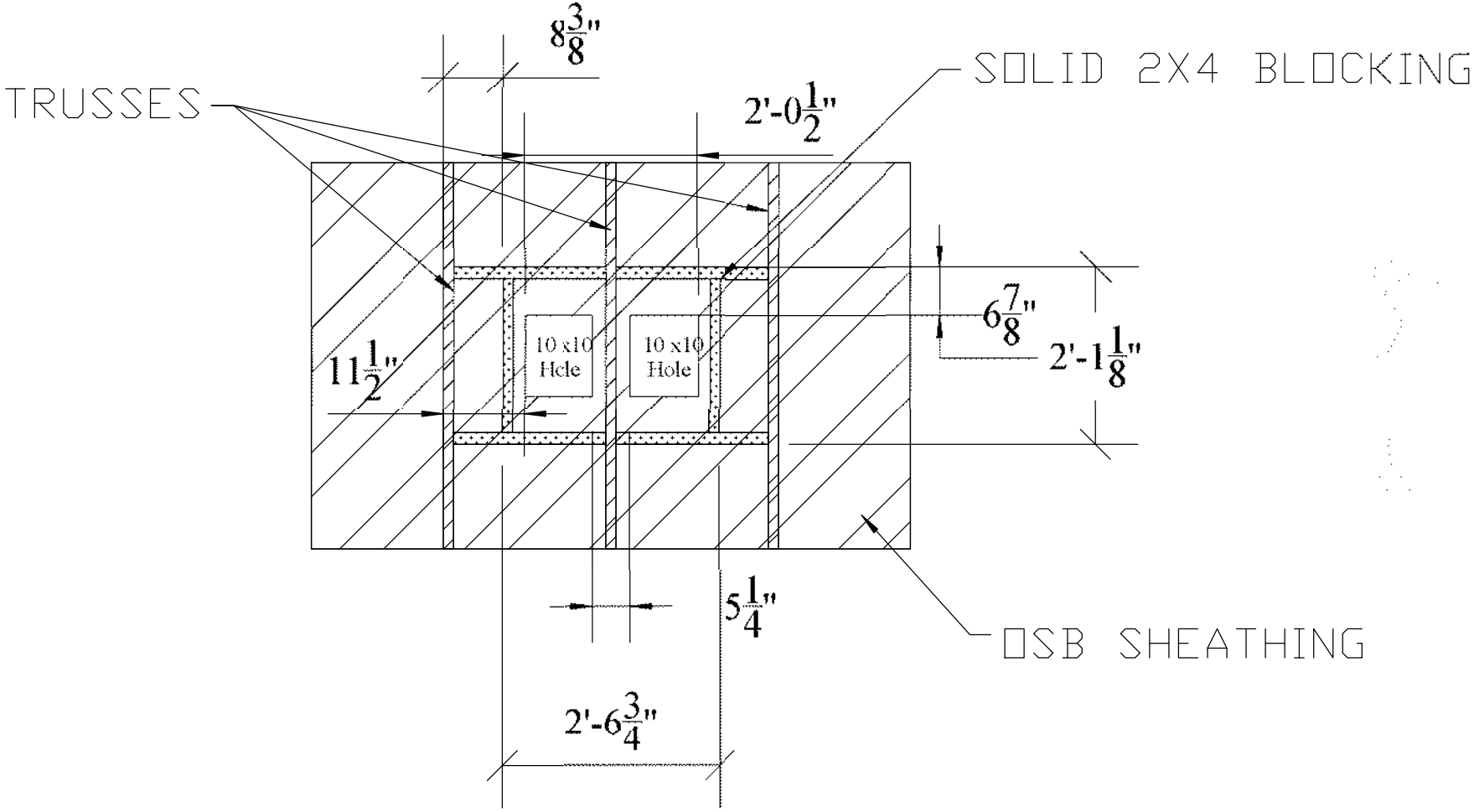






* MEASUREMENT TAKEN AT POINTS WHERE WEB ACHIEVES FULL MEMBER DEPTH (AS MEASURED PERPENDICULAR TO WEB'S SAW-MILLED EDGE)

OFF-RIDGE INSTALLATION



LAMANCO OFF RIDGE VENT FRAMING DETAIL

Maronda Homes

TRUSS DETAILS

OFF-RIDGE INSTALLATION

DRAWN BY: J.FESSIA

RELEASE DATE: 12/9/09

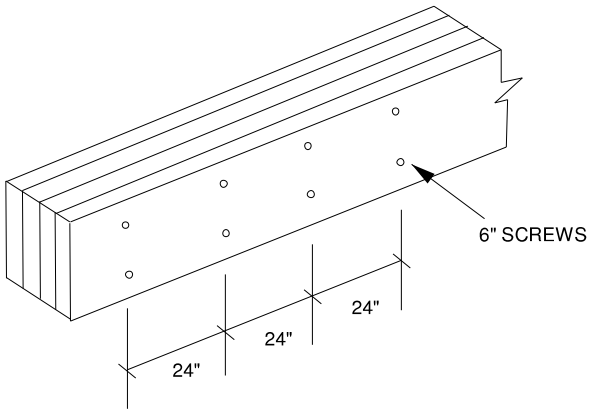
SHEET:

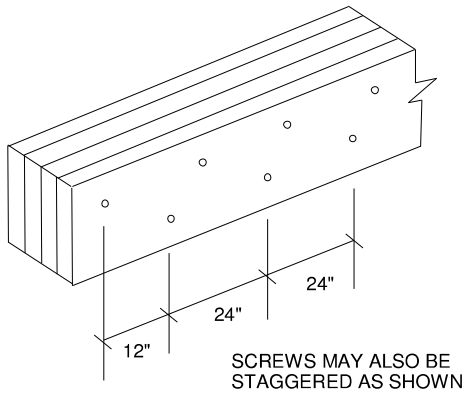
OR1

FLORIDA RESIDENTIAL

MiTek USA, Inc.

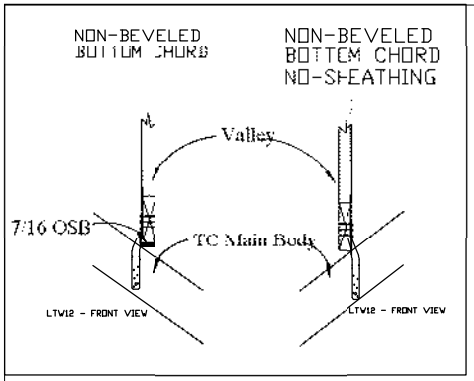
Four ply girder trusses are to be connected together using the nailing or screw schedule provided by Mitek 20/20 software. In addition to the nailing typically specified, 1/2" dia. bolts are sometimes specified throughout certain chords as indicated on the truss design drawing. In lieu of these bolts, the following wood screws may be used: USP WS6, MiTek Trusslok 6", or equivalent.
These screws are to be installed in two rows spaced 24"o.c. in 2x 6 and larger chords (use one row in 2x 4 chords) as shown in the detail below.
These connections are intended to provide clamping force to aid in allowing the four ply assembly to act as a unit and are not included in the calculation of ply to ply load transfer.





Please note that screws are not required from the back face. However, it is vitally important that the plies are tightly clamped together during the installation of the screws to prevent gaps between the plies.

For trusses where screws are specified for the ply to ply connection instead of nails, the bolts called in the connection notes may be omitted.



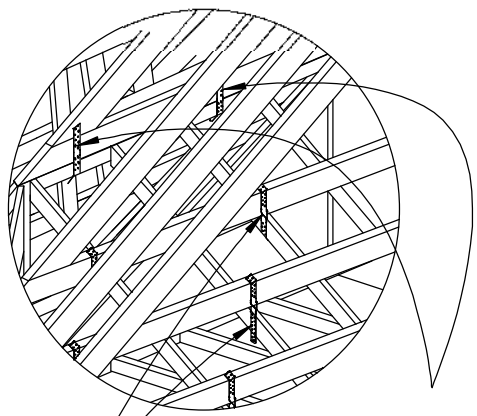
VALLEY CONNECTIONS

(ELEMENTS NOT SHOWN FOR CLARITY)

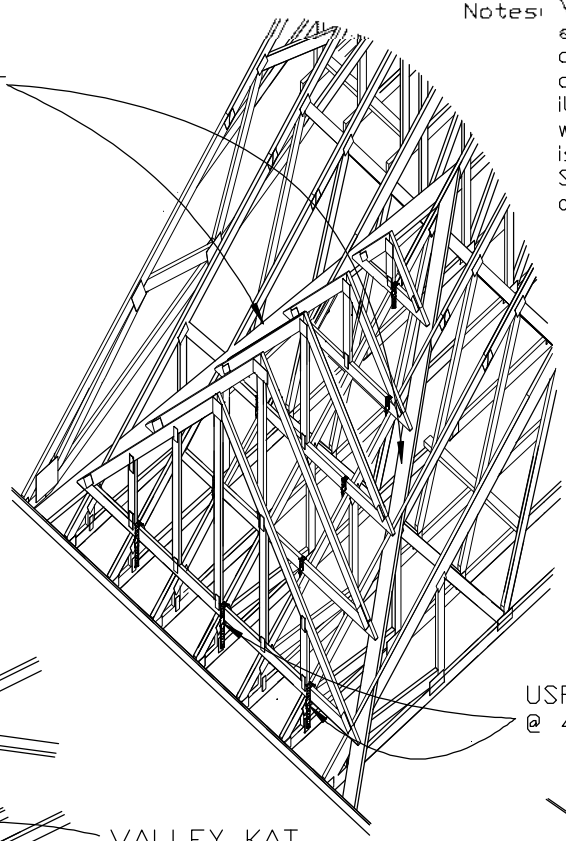
Notes:

Valley trusses can be installed either a top main body roof trusses or a top 7/16 sheathing. Connections of strapping remain the same as illustrated. Valley kats are required when a top main body truss option is utilized.
See truss engineering and standard details for truss bracing requirements.

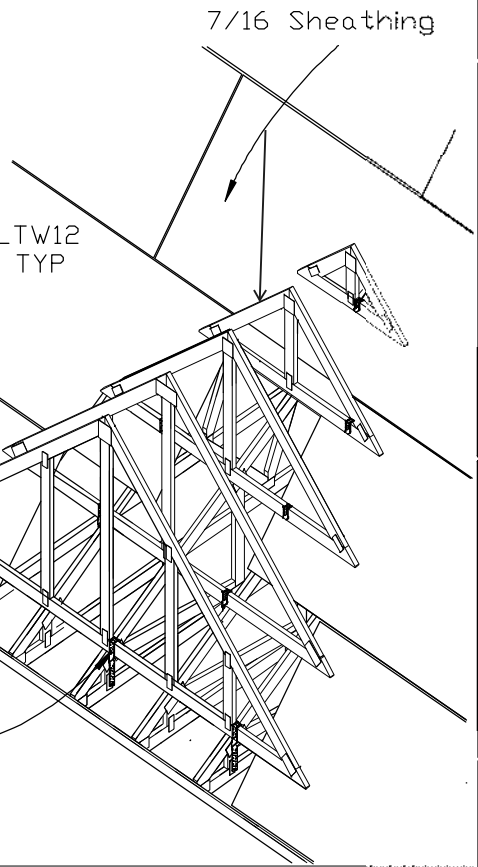
Main body trusses 2'OC perpendicular to valley is considered to be continuous bearing. If sheathing exists under valleys, Sheathing is not required to be continuous See NON BEVELED BOTTOM CHORD Detail

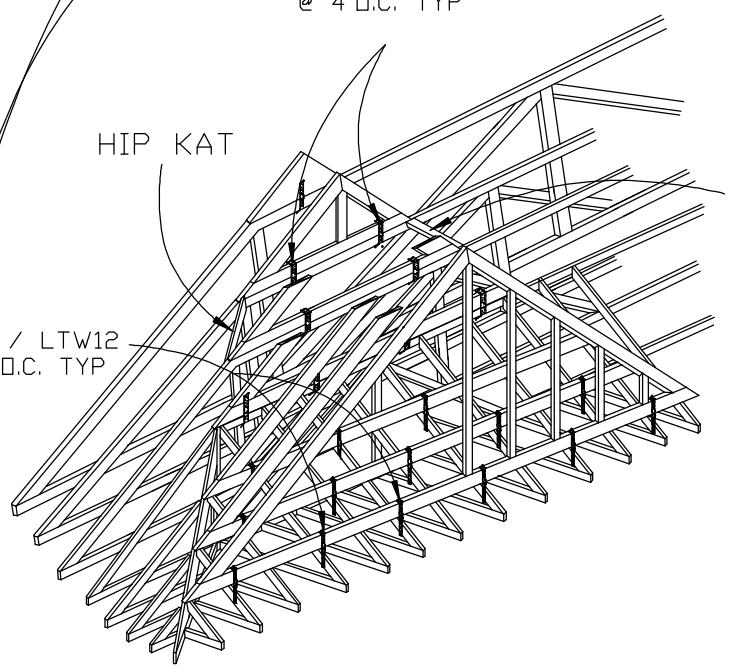


USP / MSTA12
@ 4'O.C. TYP



USP / LTW12
@ 4'O.C. TYP





USP / LTW12
@ 4'O.C. TYP

REVISIONS

Maronda Homes

TRUSS DETAILS

VALLEY CONNECTIONS

DRAWN BY: J.FESSIA

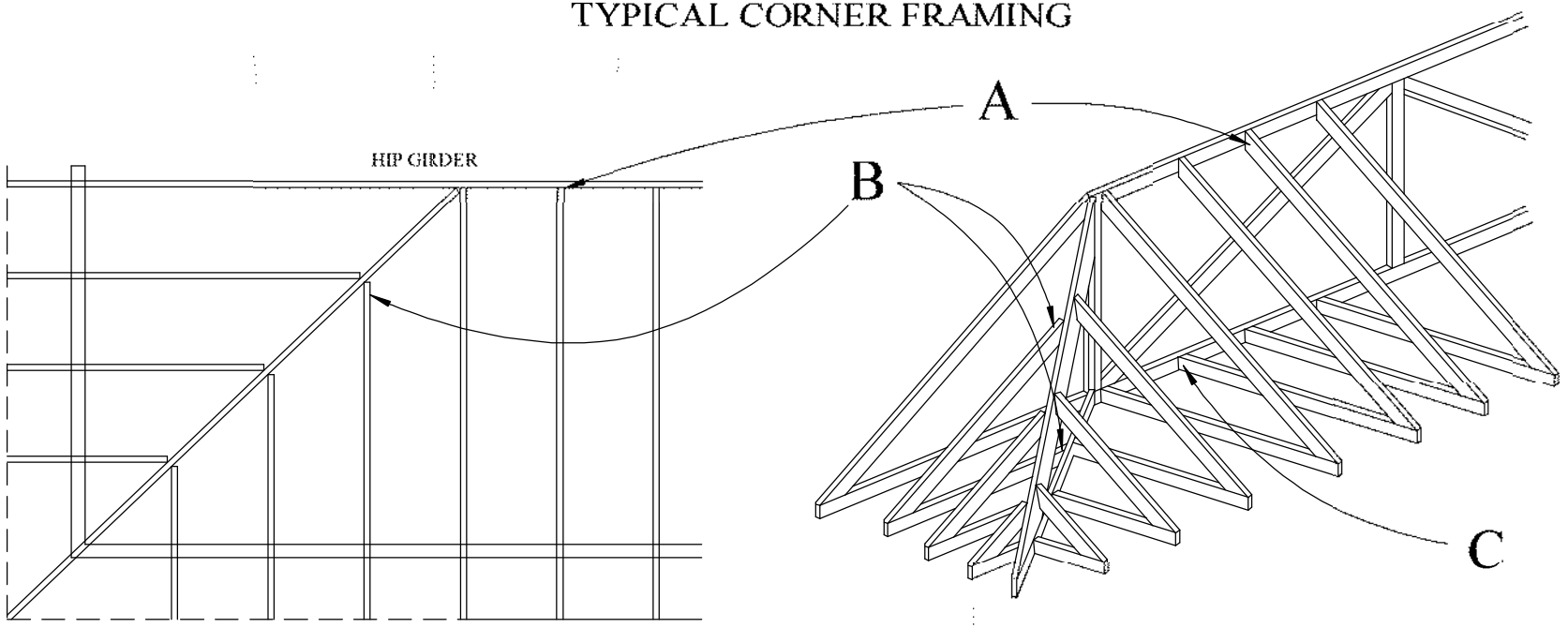
RELEASE DATE: 12/7/09

SHEET:

VC1

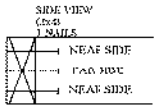
TOE-NAILED CONNECTIONS AT BEARING LOCATIONS

TYPICAL CORNER FRAMING

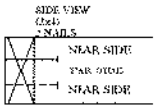


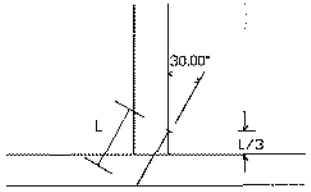
90 DEGREE ANGLE/SQUARE CUT

Connection at A



Connection at C

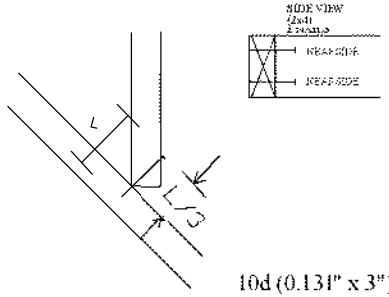




10d (0.131" x 3") nails

45 DEGREE ANGLE / SQUARE CUT

Connection at B



10d (0.131" x 3") nails

CONNECTION VALUES:

	GRAVITY	UPLIFT
(3)10D	320	385
(3)16D	355	462

Wind loading: Basic wind speed is 160 MPH ULT (124 ASD).
Exposure category B or C.
Occupancy category II
4.8 psf top chord dead load.
4.2 psf bottom chord dead load.
25' roof height.
MWFRS gable end zone.
Enclosed building (Cond. I)
FBCR-10,TPI-07, ASCE 7-10
Duration of load is 1.60
L= NAIL LENGTH

Marcela Homes

TRUSS DETAILS

TOE-NAILED CONNECTIONS

DRAWN BY: GARAGE

BLD-ASD DATE: 2/9/09

SHEET:

TN1

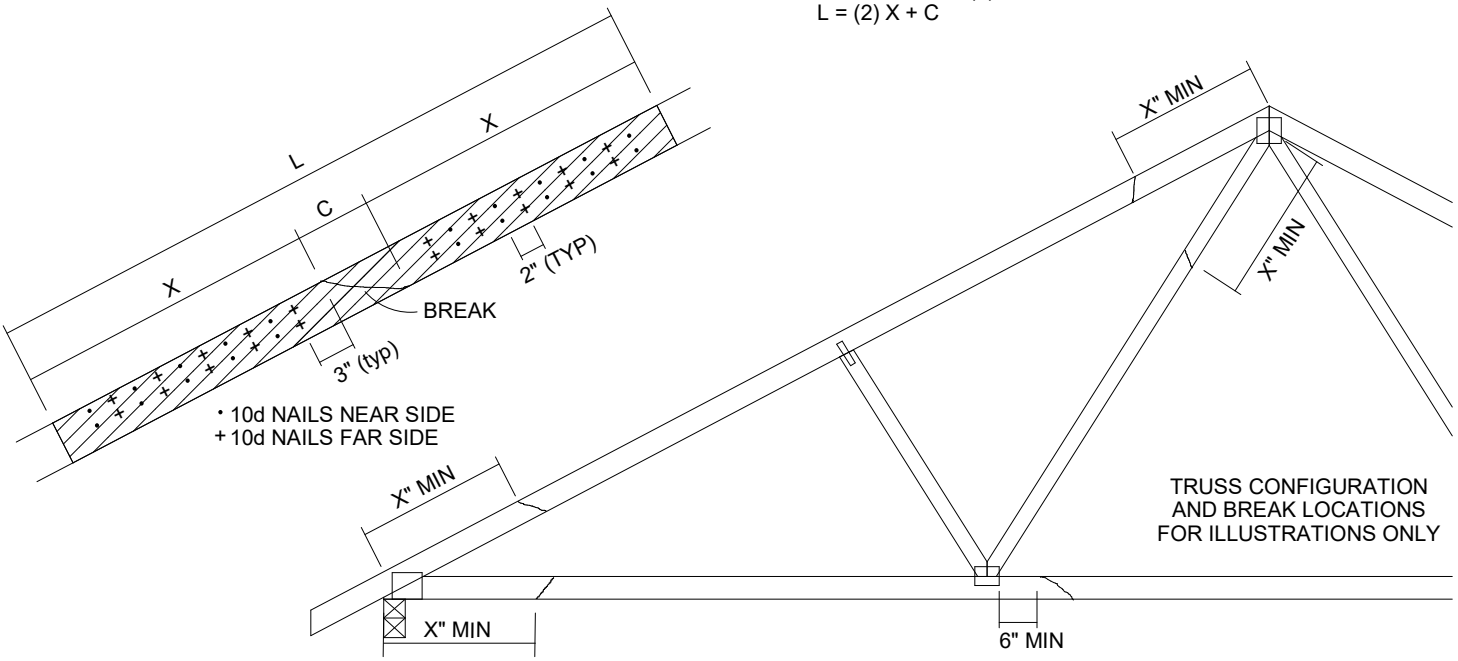
MiTek® ENGINEERED BY TRENCO A MiTek Affiliate

TOTAL NUMBER OF NAILS EACH SIDE OF BREAK *		X INCHES	MAXIMUM FORCE (lbs) 15% LOAD DURATION							
			SP		DF		SPF		HF	
2x4	2x6		2x4	2x6	2x4	2x6	2x4	2x6	2x4	2x6
20	30	24"	1706	2559	1561	2342	1320	1980	1352	2028
26	39	30"	2194	3291	2007	3011	1697	2546	1738	2608
32	48	36"	2681	4022	2454	3681	2074	3111	2125	3187
38	57	42"	3169	4754	2900	4350	2451	3677	2511	3767
44	66	48"	3657	5485	3346	5019	2829	4243	2898	4347

* DIVIDE EQUALLY FRONT AND BACK

ATTACH 2x_ SCAB OF THE SAME SIZE AND GRADE AS THE BROKEN MEMBER TO EACH FACE OF THE TRUSS (CENTER ON BREAK OR SPLICE) WITH 10d (0.131" X 3") NAILS (TWO ROWS FOR 2x4, THREE ROWS FOR 2x6) SPACED 4" O.C. AS SHOWN. STAGGER NAIL SPACING FROM FRONT FACE AND BACK FACE FOR A NET 0-2-0 O.C. SPACING IN THE MAIN MEMBER. USE A MIN. 0-3-0 MEMBER END DISTANCE.

THE LENGTH OF THE BREAK (C) SHALL NOT EXCEED 12". (C=PLATE LENGTH FOR SPLICE REPAIRS)
THE MINIMUM OVERALL SCAB LENGTH REQUIRED (L) IS CALCULATED AS FOLLOWS:
L = (2) X + C



THE LOCATION OF THE BREAK MUST BE GREATER THAN OR EQUAL TO THE REQUIRED X DIMENSION FROM ANY PERIMETER BREAK OR HEEL JOINT AND A MINIMUM OF 6" FROM ANY INTERIOR JOINT (SEE SKETCH ABOVE)

DO NOT USE REPAIR FOR JOINT SPLICES

NOTES:
1. THIS REPAIR DETAIL IS TO BE USED ONLY FOR THE APPLICATION SHOWN. THIS REPAIR DOES NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED. WHEN THE REQUIRED REPAIRS ARE PROPERLY APPLIED, THE TRUSS WILL BE CAPABLE OF SUPPORTING THE LOADS INDICATED.
2. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE APPLING REPAIR AND HELD IN PLACE DURING APPLICATION OF REPAIR.
3. THE END DISTANCE, EDGE DISTANCE AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
4. WHEN NAILING THE SCABS, THE USE OF A BACKUP WEIGHT IS RECOMMENDED TO AVOID LOOSENING OF THE CONNECTOR PLATES AT THE JOINTS OR SPLICES.
5. THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 2x_ ORIENTATION ONLY.
6. THIS REPAIR IS LIMITED TO TRUSSES WITH NO MORE THAN THREE BROKEN MEMBERS.

Job	Truss	Truss Type	Qty	Ply	Memphis J Frame
Memphis Frame	G15	Hip Supported Gable	1	1	Job Reference (optional)

Maronda Homes, Sanford, Edwin Rios — Run: 8.72 S Nov 2 2023 Print: 8.720 S Nov 2 2023 MiTek Industries, Inc. Wed Nov 15 16:10:00 — Page: 1

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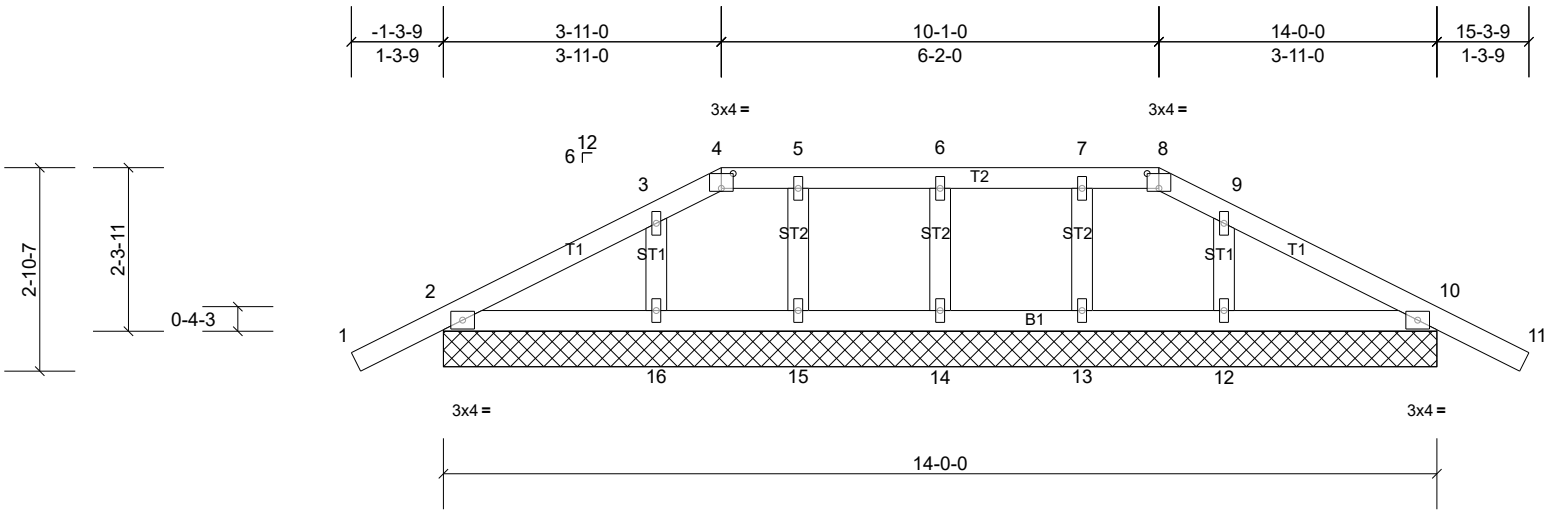

Scale = 1:32.5

Plate Offsets (X, Y): [4:0-2-0,0-2-8], [8:0-2-0,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.25	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-AS							Weight: 59 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS All bearings 14-0-0.

(lb) - Max Horiz 2=61 (LC 11), 17=61 (LC 11)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 10, 13, 14, 15, 17, 20 except 12=-102 (LC 12), 16=-108 (LC 11)
Max Grav All reactions 250 (lb) or less at joint(s) 2, 10, 12, 13, 14, 15, 16, 17, 20

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

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 1.5x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 14, 15, 13, 2, 10 except (jt=lb) 16=108, 12=102.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Memphis J Frame
Memphis Frame	G21	Monopitch Structural Gable	1	1	Job Reference (optional)

Maronda Homes, Sanford, Edwin Rios — Run: 8.72 S Nov 2 2023 Print: 8.720 S Nov 2 2023 MiTek Industries, Inc. Wed Nov 15 16:10:00 — Page: 1

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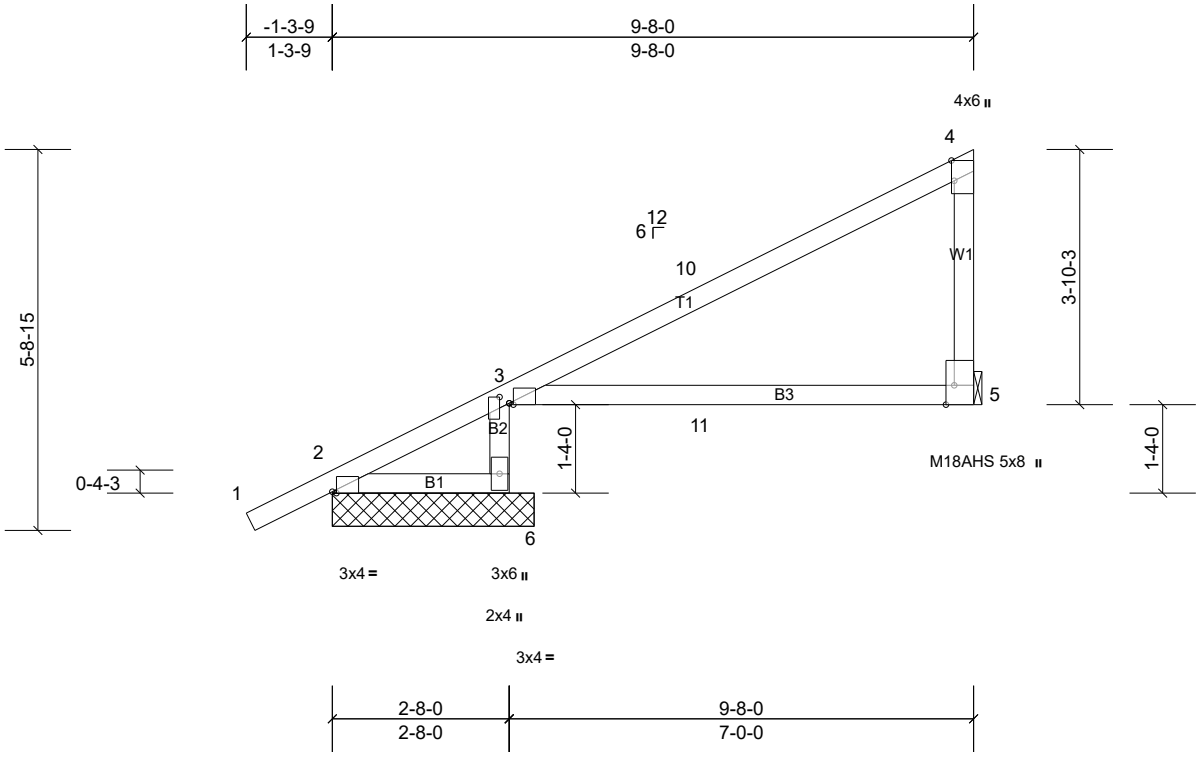

Scale = 1:34.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.25	TC	0.92	Vert(LL)	0.26	3-5	>319	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.75	Vert(CT)	0.23	3-5	>370	180	M18AHS	186/179
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-AS							Weight: 39 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS All bearings 3-0-8. except 5= Mechanical

(lb) - Max Horiz 2=288 (LC 11), 7=288 (LC 11)

Max Uplift All uplift 100 (lb) or less at joint(s) except 5=-146 (LC 11), 6=-297 (LC 11)

Max Grav All reactions 250 (lb) or less at joint(s) 2, 5, 7 except 6=410 (LC 1)

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

TOP CHORD 2-3=-574/186, 4-5=-144/313

BOT CHORD 3-6=-426/1141

NOTES

1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C 9-6-4 to 9-6-4 zone; 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) All plates are MT20 plates unless otherwise indicated.
4) Gable studs spaced at 2-0-0 oc.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 145 lb uplift at joint 5 and 297 lb uplift at joint 6.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Memphis J Frame user bearing Job Reference (optional)
Memphis Frame	G22	Monopitch	1	1	

Maronda Homes, Sanford, Edwin Rios — Run: 8.72 S Nov 2 2023 Print: 8.720 S Nov 2 2023 MiTek Industries, Inc. Wed Nov 15 16:10:01 — Page: 1

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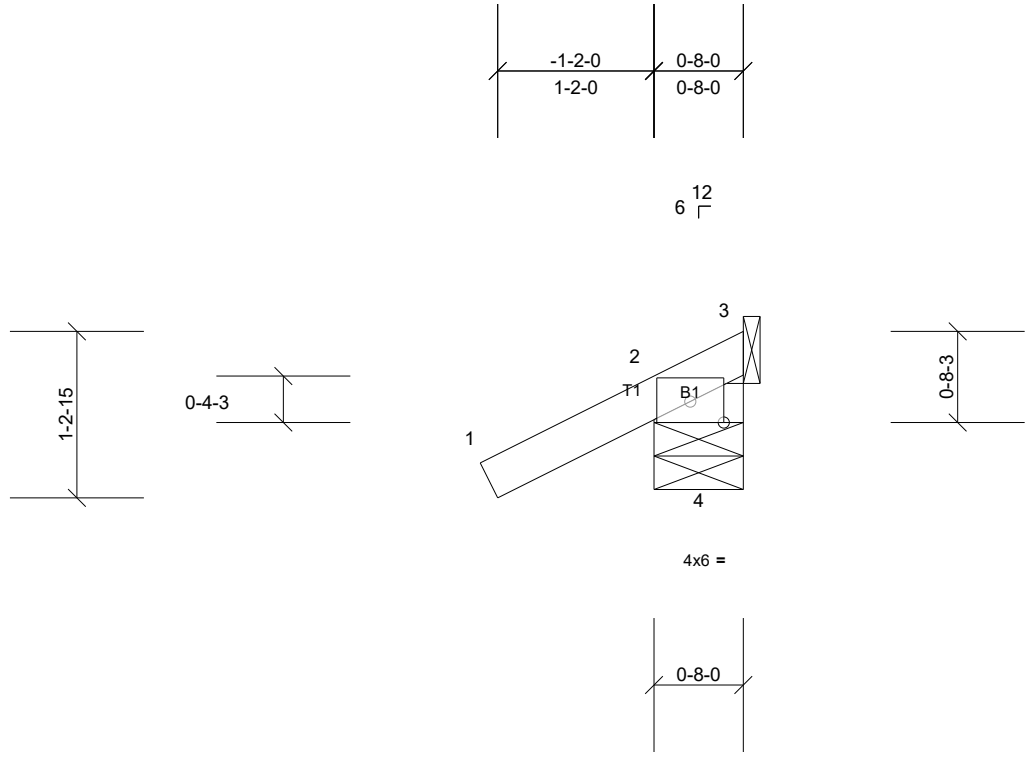


Scale = 1:17.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.25	TC	0.24	Vert(LL)	0.00	5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.31	Vert(CT)	0.00	5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	n/a	-	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MP							Weight: 4 lb	FT = 20%

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

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

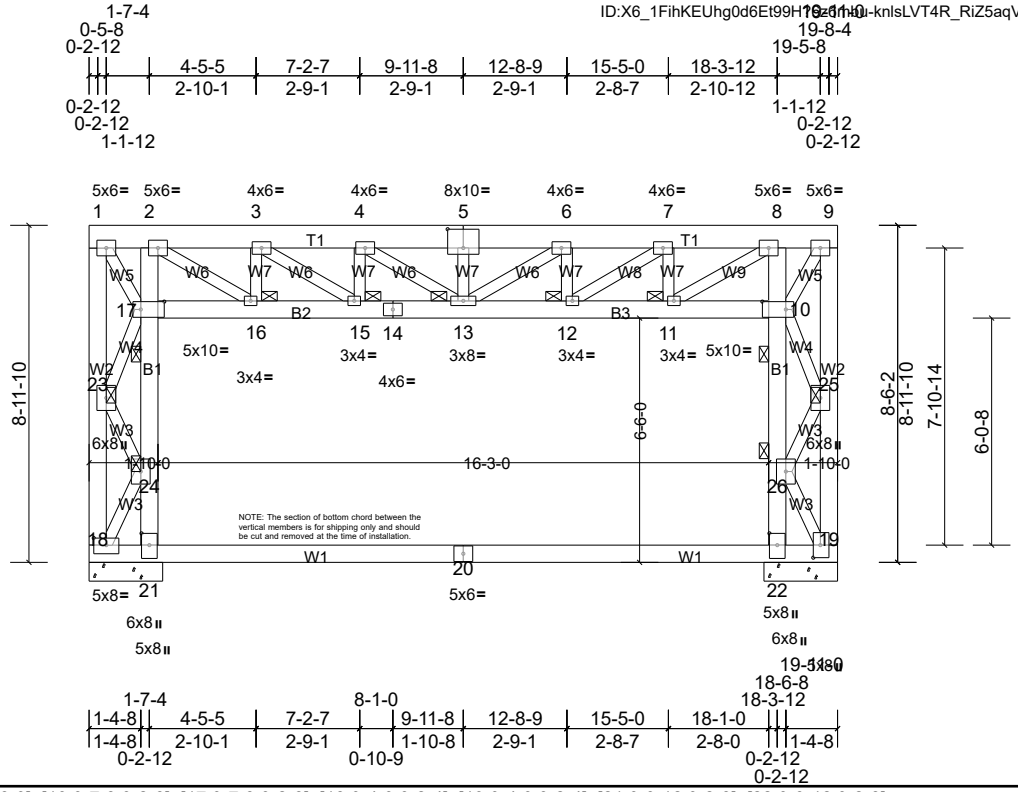
REACTIONS (lb/size) 2=-173/ Mechanical, (min. 0-1-8), 4=267/0-8-0, (min. 0-1-8)
Max Horiz 4=46 (LC 11)
Max Uplift 2=-173 (LC 1), 4=-222 (LC 11)
Max Grav 2=152 (LC 11), 4=267 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 2-4=-145/348

NOTES
1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C zone;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 live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 173 lb uplift at joint 2 and 222 lb uplift at joint 4.
5) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Memphis J Frame
Memphis Frame	GP8	Roof Special Girder	1	3	garage Job Reference (optional)



Scale = 1:61.3

Plate Offsets (X, Y): [5:0-5-0,0-6-0], [10:0-7-8,0-2-8], [17:0-7-8,0-2-8], [18:0-4-0,0-2-4], [19:0-4-0,0-2-4], [21:0-3-12,0-2-8], [22:0-3-12,0-2-8]

Loading	(psf)	Spacing	1-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.09	Vert(LL)	0.03	13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.12	Vert(CT)	-0.04	13	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.00	19	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							Weight: 844 lb	FT = 20%

LUMBER
TOP CHORD 2x8 SP No.2
BOT CHORD 2x6 SP No.2 *Except* B3:2x4 SP No.2
WEBS 2x4 SP No.2 *Except* W2,W1:2x6 SP No.2

REACTIONS All bearings 1-11-8.
(lb) - Max Horiz 18=-218 (LC 23)
Max Uplift All uplift 100 (lb) or less at joint(s) except 18=-944 (LC 23), 19=-1617 (LC 26), 21=-865 (LC 25), 22=-1909 (LC 24)
Max Grav All reactions 250 (lb) or less at joint(s) except 18=1136 (LC 18), 19=1971 (LC 27), 21=1099 (LC 28), 22=1890 (LC 29)

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. Except: 6-0-0 oc bracing: 21-24, 2-24, 22-26, 8-26
WEBS 1 Row at midpt 1-18, 9-19
JOINTS 1 Brace at Jt(s): 16, 13, 15, 12, 11, 24, 26

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 18-23=-541/561, 1-23=-719/825, 1-2=-477/489, 2-3=-1845/1423, 3-4=-2656/1842, 4-5=-3021/1934, 5-6=-3021/1815, 6-7=-2626/1701, 7-8=-1673/1314, 8-9=-603/698, 19-25=-1242/1083, 9-25=-926/1152
BOT CHORD 21-24=-1099/865, 17-24=-1996/1052, 2-17=-2054/1324, 22-26=-1842/1861, 10-26=-2601/2020, 8-10=-2305/1713, 16-17=-904/775, 15-16=-890/1099, 14-15=-1103/2198, 13-14=-1541/2198, 12-13=-1470/2169, 11-12=-821/983, 10-11=-1045/782
WEBS 18-21=-356/509, 20-21=-351/499, 20-22=-351/499, 19-22=-357/511, 3-16=-1262/947, 5-13=-523/268, 4-15=-959/771, 6-12=-984/768, 7-11=-1293/957, 4-13=-838/930, 3-15=-1327/1734, 2-16=-1569/2178, 6-13=-842/982, 7-12=-1309/1760, 8-11=-1601/2250, 1-17=-888/775, 9-10=-1212/991, 17-23=-810/541, 23-24=-543/619, 18-24=-743/651, 10-25=-874/528, 25-26=-551/768, 19-26=-921/630

NOTES
1) 3-ply truss to be connected together as follows:
Top chords connected with WS45 as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x8 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected with WS45 as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web chords connected with 10d (0.148"x3") nails as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
4) Provide adequate drainage to prevent water ponding.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 944 lb uplift at joint 18, 1616 lb uplift at joint 19, 865 lb uplift at joint 21 and 1908 lb uplift at joint 22.
7) Load case(s) 13, 43, 44, 45, 46 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
8) This truss has been designed for a total drag load of 4000 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 1-6-0 to 19-11-0 for 217.2 plf.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Continued on page 2

Uniform Loads (lb/ft)
Vert: 1-9=-172, 10-17=-10

13) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (lb/ft)
Vert: 1-9=-82, 10-17=-10

43) Dead + DragE LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (lb/ft)
Vert: 1-9=-82, 10-17=-10
Drag: 2-9=201, 10-22=-217, 8-10=-217, 10-17=-217

44) Dead + DragE LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (lb/ft)
Vert: 1-9=-82, 10-17=-10
Drag: 2-9=-201, 10-22=217, 8-10=217, 10-17=217

45) 0.6 Dead + DragE LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (lb/ft)
Vert: 1-9=-49, 10-17=-6
Drag: 2-9=201, 10-22=-217, 8-10=-217, 10-17=-217

46) 0.6 Dead + DragE LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (lb/ft)
Vert: 1-9=-49, 10-17=-6
Drag: 2-9=-201, 10-22=217, 8-10=217, 10-17=217

Job	Truss	Truss Type	Qty	Ply	Memphis J Frame
Memphis Frame	H01	Hip	2	1	Job Reference (optional)

Maronda Homes, Sanford, Edwin Rios — Run: 8.72 S Nov 2 2023 Print: 8.720 S Nov 2 2023 MiTek Industries, Inc. Wed Nov 15 16:10:01 — Page: 1

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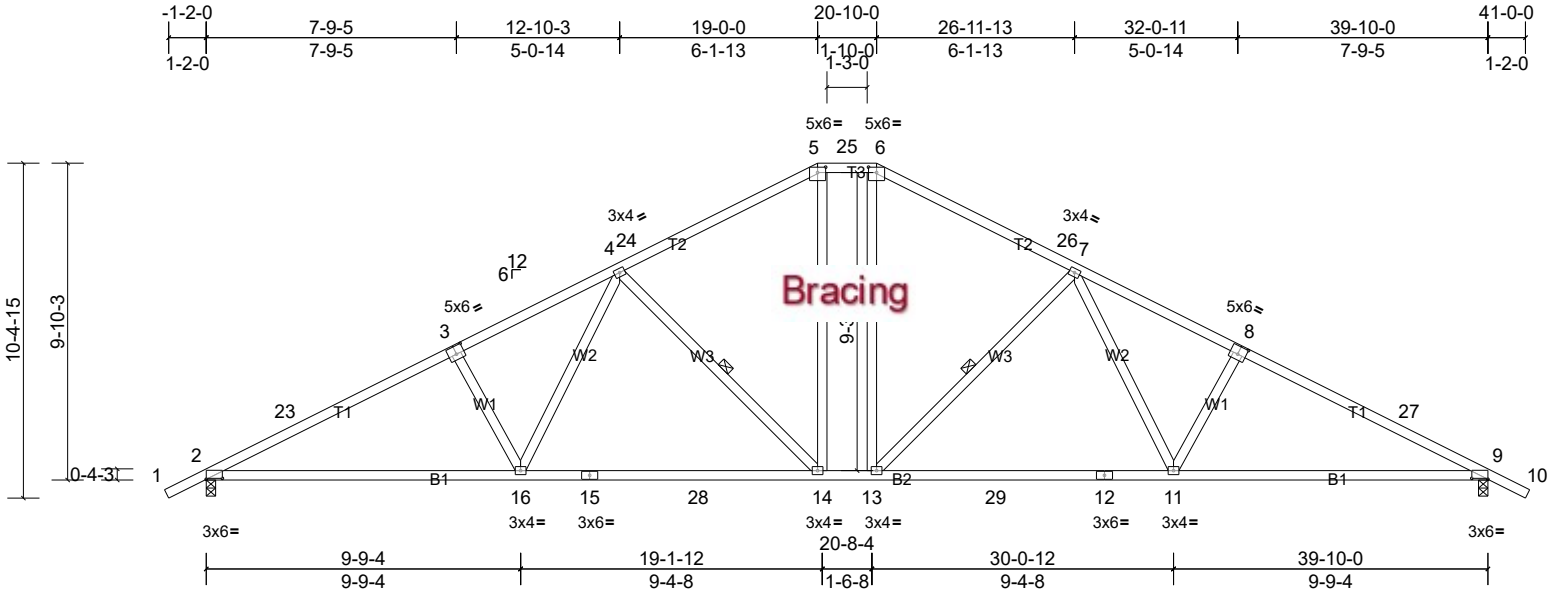

Scale = 1:71.6

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.25	TC	0.64	Vert(LL)	-0.35	14-16	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.91	Vert(CT)	-0.59	14-16	>809	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.12	9	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-AS							Weight: 216 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.1D *Except* B2:2x4 SP No.2
WEBS	2x4 SP No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 4-14, 7-13

REACTIONS (lb/size) 2=1371/0-3-8, (min. 0-1-9), 9=1371/0-3-8, (min. 0-1-9)
Max Horiz 2=238 (LC 15)
Max Uplift 2=-582 (LC 11), 9=-582 (LC 12)
Max Grav 2=1551 (LC 2), 9=1551 (LC 2)

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

TOP CHORD 2-23=-2789/945, 3-23=-2753/964, 3-4=-2674/976, 4-24=-1848/733, 5-24=-1839/757, 5-25=-1613/733, 6-25=-1613/733, 6-26=-1839/757, 7-26=-1848/733, 7-8=-2674/976, 8-27=-2753/964, 9-27=-2789/946

BOT CHORD 2-16=-950/2463, 15-16=-690/2050, 15-28=-690/2050, 14-28=-690/2050, 13-14=-355/1613, 13-29=-528/2050, 12-29=-528/2050, 11-12=-528/2050, 9-11=-712/2463

WEBS 3-16=-286/339, 4-16=-235/701, 4-14=-658/484, 5-14=-190/656, 6-13=-190/656, 7-13=-658/484, 7-11=-236/701, 8-11=-286/339

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C 26-5-10 to 41-0-13 zone;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 live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 582 lb uplift at joint 2 and 582 lb uplift at joint 9.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Memphis J Frame
Memphis Frame	H02	Hip	2	1	Job Reference (optional)

Maronda Homes, Sanford, Edwin Rios — Run: 8.72 S Nov 2 2023 Print: 8.720 S Nov 2 2023 MiTek Industries, Inc. Wed Nov 15 16:10:01 — Page: 1

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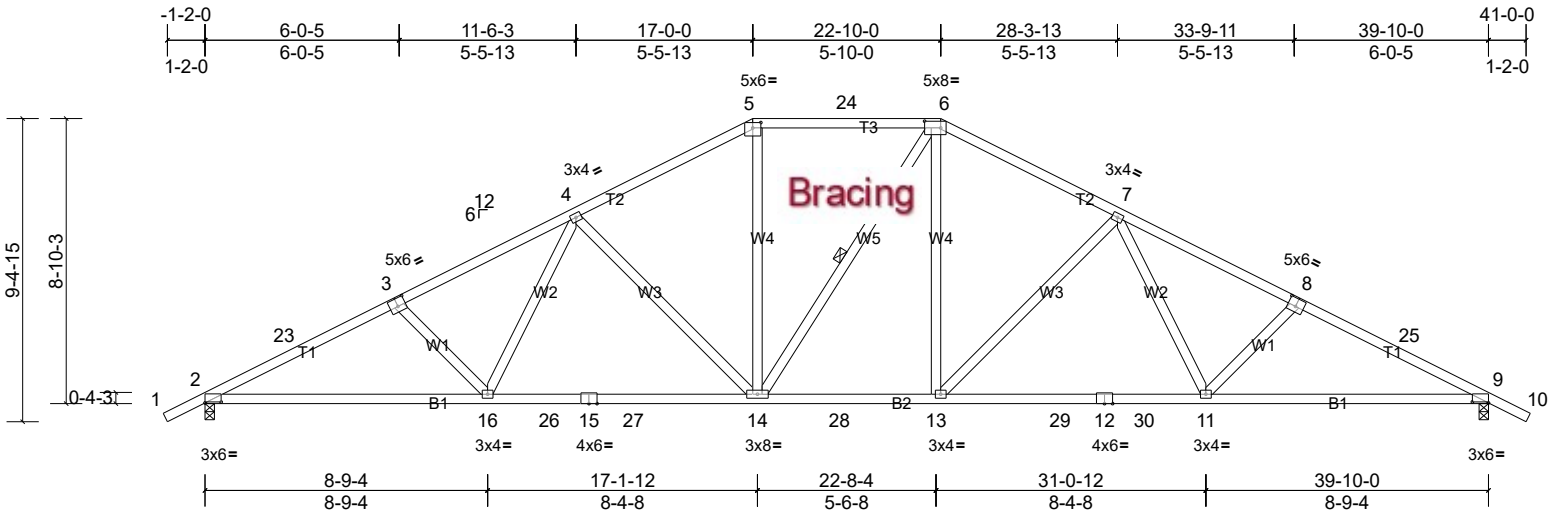

Scale = 1:71.5

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.25	TC	0.41	Vert(LL)	-0.28	11-13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.99	Vert(CT)	-0.51	11-13	>939	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.14	9	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-AS							Weight: 221 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 6-14

REACTIONS (lb/size) 2=1371/0-3-8, (min. 0-1-13), 9=1371/0-3-8, (min. 0-1-14)
Max Horiz 2=-215 (LC 16)
Max Uplift 2=-587 (LC 11), 9=-587 (LC 12)
Max Grav 2=1561 (LC 2), 9=1564 (LC 2)

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

TOP CHORD 2-23=-2888/1019, 3-23=-2860/1030, 3-4=-2740/960, 4-5=-2028/825, 5-24=-1781/799, 6-24=-1781/799, 6-7=-2034/825, 7-8=-2746/961, 8-25=-2866/1031, 9-25=-2895/1019

BOT CHORD 2-16=-1014/2564, 16-26=-740/2164, 15-26=-740/2164, 15-27=-740/2164, 14-27=-740/2164, 14-28=-390/1786, 13-28=-390/1786, 13-29=-610/2169, 12-29=-610/2169, 12-30=-610/2169, 11-30=-610/2169, 9-11=-800/2569

WEBS 3-16=-264/312, 4-16=-139/569, 4-14=-572/416, 5-14=-168/675, 6-13=-217/691, 7-13=-573/416, 7-11=-140/569, 8-11=-264/313

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C 28-3-13 to 41-0-13 zone;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 live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 587 lb uplift at joint 2 and 587 lb uplift at joint 9.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Memphis J Frame
Memphis Frame	H03	Hip	2	1	Job Reference (optional)

Maronda Homes, Sanford, Edwin Rios — Run: 8.72 S Nov 2 2023 Print: 8.720 S Nov 2 2023 MiTek Industries, Inc. Wed Nov 15 16:10:01 — Page: 1

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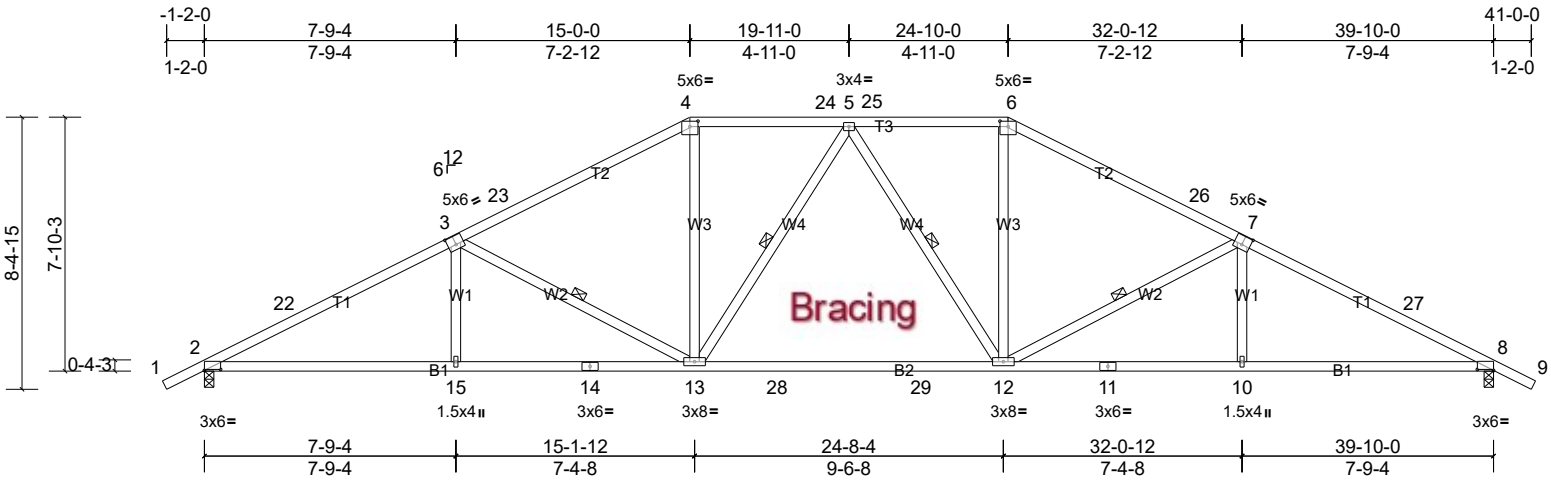

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Plate Offsets (X, Y): [2:0-6-0,0-0-6], [3:0-3-0,0-3-4], [4:0-3-0,0-2-0], [6:0-3-0,0-2-0], [7:0-3-0,0-3-4], [8:0-6-0,0-0-6]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.25	TC	0.52	Vert(LL)	-0.36	12-13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.85	Vert(CT)	-0.62	12-13	>766	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.13	8	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-AS							Weight: 210 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except* B2:2x4 SP No.1D
WEBS	2x4 SP No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 3-13, 5-13, 5-12, 7-12

REACTIONS (lb/size) 2=1371/0-3-8, (min. 0-1-13), 8=1371/0-3-8, (min. 0-1-13)
Max Horiz 2=-191 (LC 12)
Max Uplift 2=-592 (LC 11), 8=-592 (LC 12)
Max Grav 2=1534 (LC 2), 8=1534 (LC 2)

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

TOP CHORD 2-22=-2793/979, 3-22=-2759/998, 3-23=-2198/806, 4-23=-2128/831, 4-24=-1916/819, 5-24=-1916/819, 5-25=-1916/819, 6-25=-1916/819, 6-26=-2128/831, 7-26=-2198/806, 7-27=-2759/999, 8-27=-2793/980

BOT CHORD 2-15=-942/2468, 14-15=-941/2471, 13-14=-941/2471, 13-28=-510/1971, 28-29=-510/1971, 12-29=-510/1971, 11-12=-758/2471, 10-11=-758/2471, 8-10=-760/2468

WEBS 3-15=0/279, 3-13=-648/461, 4-13=-163/733, 6-12=-162/733, 7-12=-648/462, 7-10=0/279

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C 30-5-10 to 41-0-13 zone;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 live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 592 lb uplift at joint 2 and 592 lb uplift at joint 8.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Memphis J Frame
Memphis Frame	H04	Hip	2	1	Job Reference (optional)

Maronda Homes, Sanford, Edwin Rios — Run: 8.72 S Nov 2 2023 Print: 8.720 S Nov 2 2023 MiTek Industries, Inc. Wed Nov 15 16:10:01 — Page: 1

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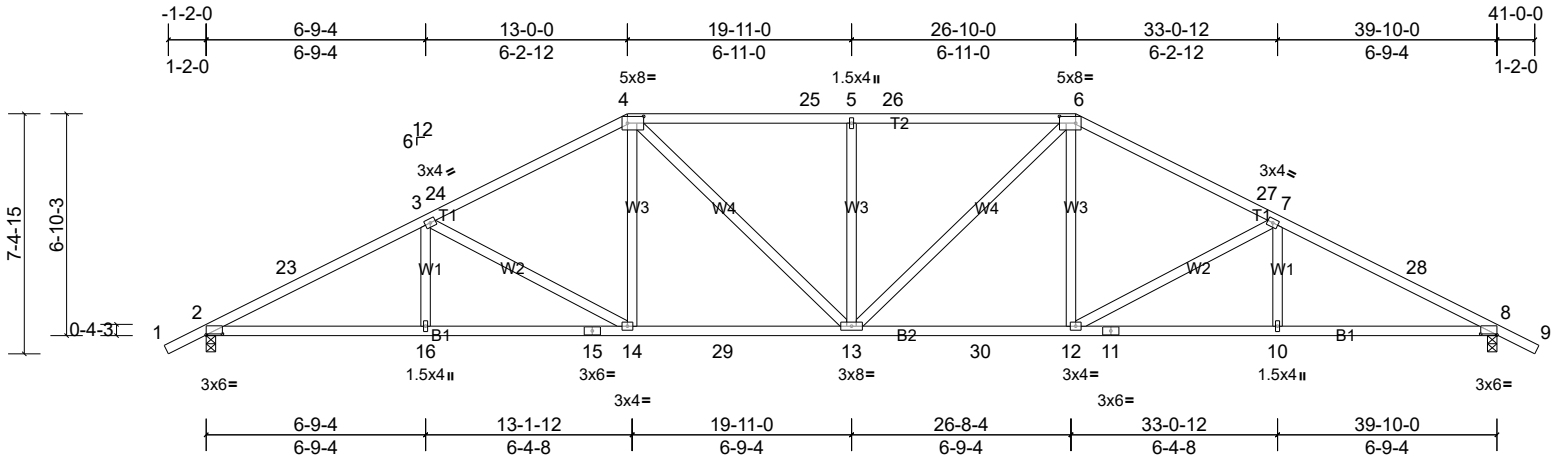

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Plate Offsets (X, Y): [2:0-6-0,0-0-6], [4:0-6-0,0-2-8], [6:0-6-0,0-2-8], [8:0-6-0,0-0-6]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.25	TC	0.42	Vert(LL)	-0.23	13-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.75	Vert(CT)	-0.42	13-14	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.15	8	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-AS							Weight: 212 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS (lb/size) 2=1371/0-3-8, (min. 0-1-13), 8=1371/0-3-8, (min. 0-1-13)
Max Horiz 2=-168 (LC 12)
Max Uplift 2=-596 (LC 11), 8=-596 (LC 12)
Max Grav 2=1543 (LC 2), 8=1543 (LC 2)

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

TOP CHORD 2-23=-2864/1006, 3-23=-2831/1021, 3-24=-2348/844, 4-24=-2338/868, 4-25=-2346/935, 5-25=-2346/935, 5-26=-2346/935, 6-26=-2346/935, 6-27=-2338/868, 7-27=-2348/844, 7-28=-2831/1022, 8-28=-2864/1007

BOT CHORD 2-16=-950/2532, 15-16=-950/2532, 14-15=-950/2532, 14-29=-620/2060, 13-29=-620/2060, 13-30=-517/2060, 12-30=-517/2060, 11-12=-783/2532, 10-11=-783/2532, 8-10=-783/2532

WEBS 3-16=0/259, 3-14=-564/377, 4-14=-97/530, 4-13=-268/474, 5-13=-352/358, 6-13=-268/474, 6-12=-98/530, 7-12=-564/378, 7-10=0/259

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C 32-5-10 to 41-0-13 zone;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 live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 596 lb uplift at joint 2 and 596 lb uplift at joint 8.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Memphis J Frame
Memphis Frame	H05	Hip	2	1	Job Reference (optional)

Maronda Homes, Sanford, Edwin Rios — Run: 8.72 S Nov 2 2023 Print: 8.720 S Nov 2 2023 MiTek Industries, Inc. Wed Nov 15 16:10:01 — Page: 1

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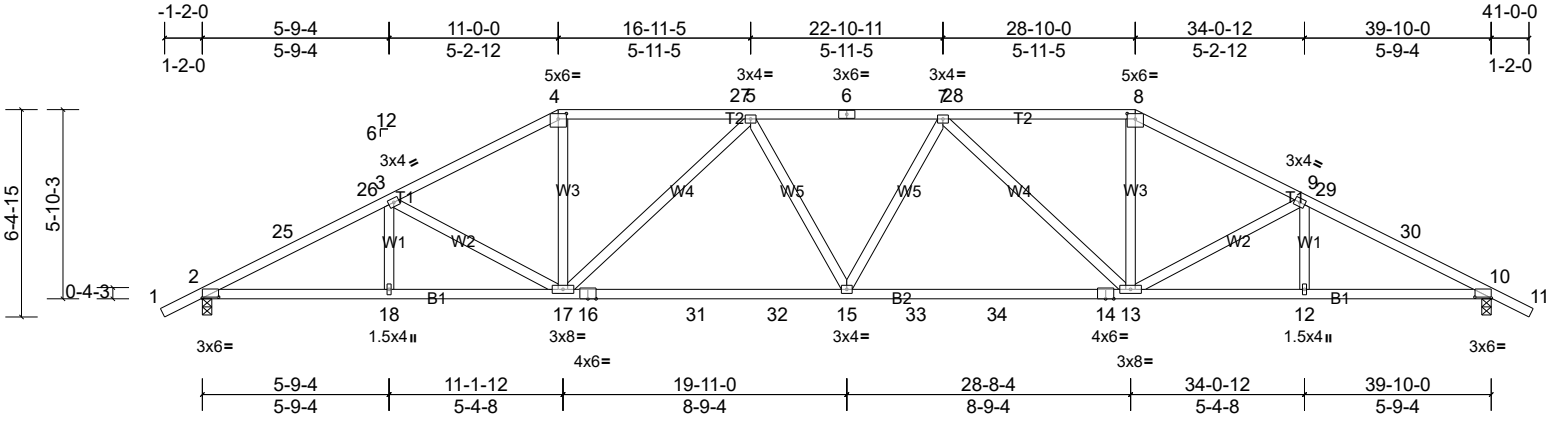

Scale = 1:71.2

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.25	TC	0.34	Vert(LL)	-0.29	15-17	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.83	Vert(CT)	-0.54	15-17	>887	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.15	10	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-AS							Weight: 208 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* B2:2x4 SP No.1D
WEBS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS (lb/size) 2=1371/0-3-8, (min. 0-1-13), 10=1371/0-3-8, (min. 0-1-13)
Max Horiz 2=144 (LC 11)
Max Uplift 2=-600 (LC 11), 10=-600 (LC 12)
Max Grav 2=1538 (LC 2), 10=1538 (LC 2)

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

TOP CHORD 2-25=-2892/1038, 25-26=-2862/1048, 3-26=-2812/1050, 3-4=-2495/911, 4-27=-2212/877, 5-27=-2212/877, 5-6=-2756/992, 6-7=-2756/992, 7-28=-2212/877, 8-28=-2212/877, 8-9=-2495/911, 9-29=-2812/1051, 29-30=-2862/1049, 10-30=-2892/1039

BOT CHORD 2-18=-965/2560, 17-18=-965/2560, 16-17=-867/2653, 16-31=-867/2653, 31-32=-867/2653, 15-32=-867/2653, 15-33=-833/2653, 33-34=-833/2653, 14-34=-833/2653, 13-14=-833/2653, 12-13=-822/2560, 10-12=-822/2560

WEBS 3-17=-441/315, 4-17=-190/895, 5-17=-669/381, 5-15=-69/318, 7-15=-69/318, 7-13=-669/381, 8-13=-190/895, 9-13=-442/316

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C 34-5-10 to 41-0-13 zone;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 live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 600 lb uplift at joint 2 and 600 lb uplift at joint 10.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Memphis J Frame
Memphis Frame	H06	Hip	1	1	Job Reference (optional)

Maronda Homes, Sanford, Edwin Rios — Run: 8.72 S Nov 2 2023 Print: 8.720 S Nov 2 2023 MiTek Industries, Inc. Wed Nov 15 16:10:01 — Page: 1

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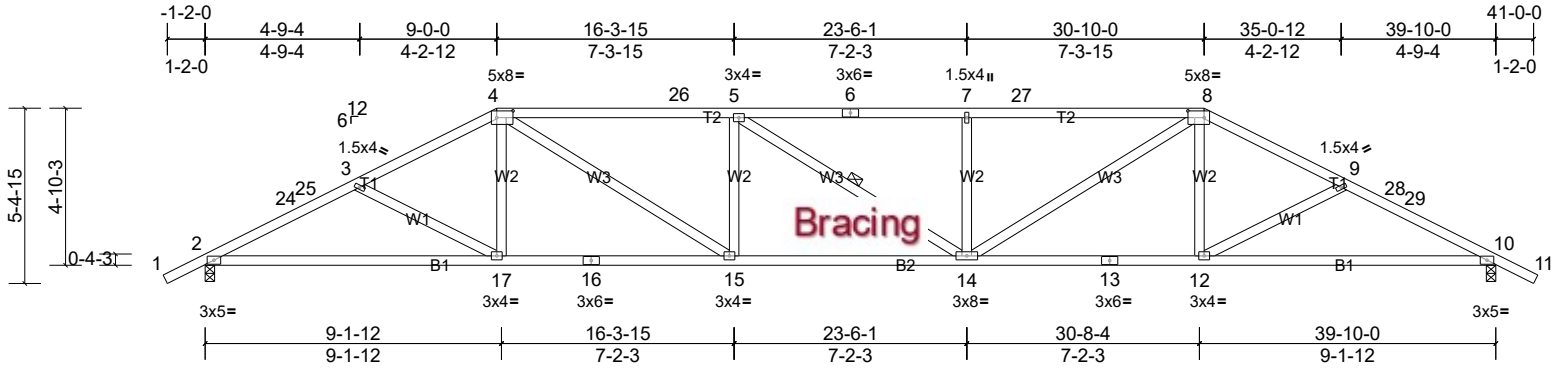

Scale = 1:71.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.25	TC	0.55	Vert(LL)	0.34	14-15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.69	Vert(CT)	-0.52	14-15	>926	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.14	10	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-AS							Weight: 202 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 5-14

REACTIONS (lb/size) 2=1371/0-3-8, (min. 0-1-10), 10=1371/0-3-8, (min. 0-1-10)
Max Horiz 2=-121 (LC 12)
Max Uplift 2=-603 (LC 11), 10=-603 (LC 12)

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

TOP CHORD 2-24=-2543/1086, 24-25=-2506/1093, 3-25=-2493/1100, 3-4=-2330/965, 4-26=-2832/1274, 5-26=-2832/1274, 5-6=-2832/1274, 6-7=-2832/1274, 7-27=-2832/1274, 8-27=-2832/1274, 8-9=-2330/965, 9-28=-2493/1100, 28-29=-2506/1093, 10-29=-2543/1087

BOT CHORD 2-17=-995/2253, 16-17=-790/2054, 15-16=-790/2054, 14-15=-1180/2832, 13-14=-719/2054, 12-13=-719/2054, 10-12=-875/2253

WEBS 3-17=-235/257, 4-17=-22/278, 4-15=-548/982, 5-15=-381/372, 7-14=-350/350, 8-14=-547/982, 8-12=-23/278, 9-12=-235/258

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C 36-5-10 to 41-0-13 zone;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 live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 603 lb uplift at joint 2 and 603 lb uplift at joint 10.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Memphis J Frame
Memphis Frame	H08	Hip	1	1	Job Reference (optional)

Maronda Homes, Sanford, Edwin Rios — Run: 8.72 S Nov 2 2023 Print: 8.720 S Nov 2 2023 MiTek Industries, Inc. Wed Nov 15 16:10:01 — Page: 1

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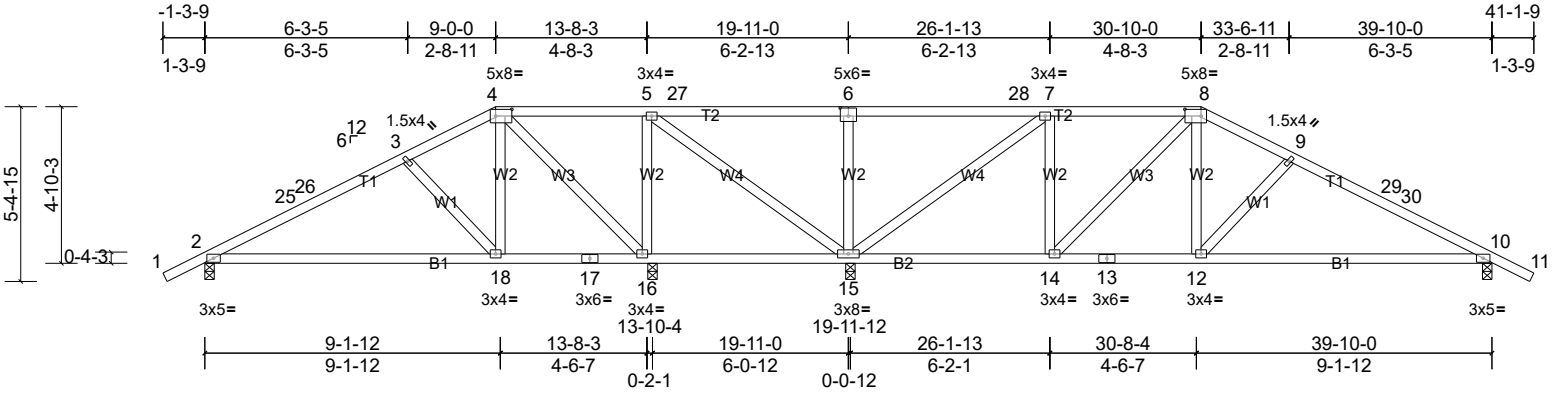

Scale = 1:71.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.25	TC	0.35	Vert(LL)	0.10	12-24	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.47	Vert(CT)	-0.21	12-24	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.02	10	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-AS							Weight: 209 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS All bearings 0-3-8.

(lb) - Max Horiz 2=121 (LC 15)

Max Uplift All uplift 100 (lb) or less at joint(s) except 2=-230 (LC 11), 10=-336 (LC 12), 15=-540 (LC 7), 16=-373 (LC 11)

Max Grav All reactions 250 (lb) or less at joint(s) except 2=425 (LC 24), 10=621 (LC 25), 15=1102 (LC 25), 16=660 (LC 24)

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

TOP CHORD 2-25=-407/221, 25-26=-373/223, 3-26=-360/233, 5-27=-87/386, 6-27=-87/386, 6-28=-87/386, 7-28=-87/386, 7-8=-361/308, 8-9=-656/399, 9-29=-790/468, 29-30=-802/458, 10-30=-836/456

BOT CHORD 2-18=-202/339, 15-16=-251/230, 14-15=-74/361, 13-14=-105/552, 12-13=-105/552, 10-12=-291/721

WEBS 3-18=-267/278, 4-18=-129/359, 8-12=-128/356, 9-12=-262/276, 6-15=-298/298, 5-16=-205/256, 7-14=-14/265, 7-15=-905/489, 4-16=-555/249, 8-14=-274/103

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C 36-5-10 to 41-0-13 zone; cantilever left and right exposed ; end vertical 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 live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 229 lb uplift at joint 2, 539 lb uplift at joint 15, 373 lb uplift at joint 16 and 336 lb uplift at joint 10.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Memphis J Frame
Memphis Frame	H14	Hip	1	1	Job Reference (optional)

Maronda Homes, Sanford, Edwin Rios — Run: 8.72 S Nov 2 2023 Print: 8.720 S Nov 2 2023 MiTek Industries, Inc. Wed Nov 15 16:10:01 — Page: 1

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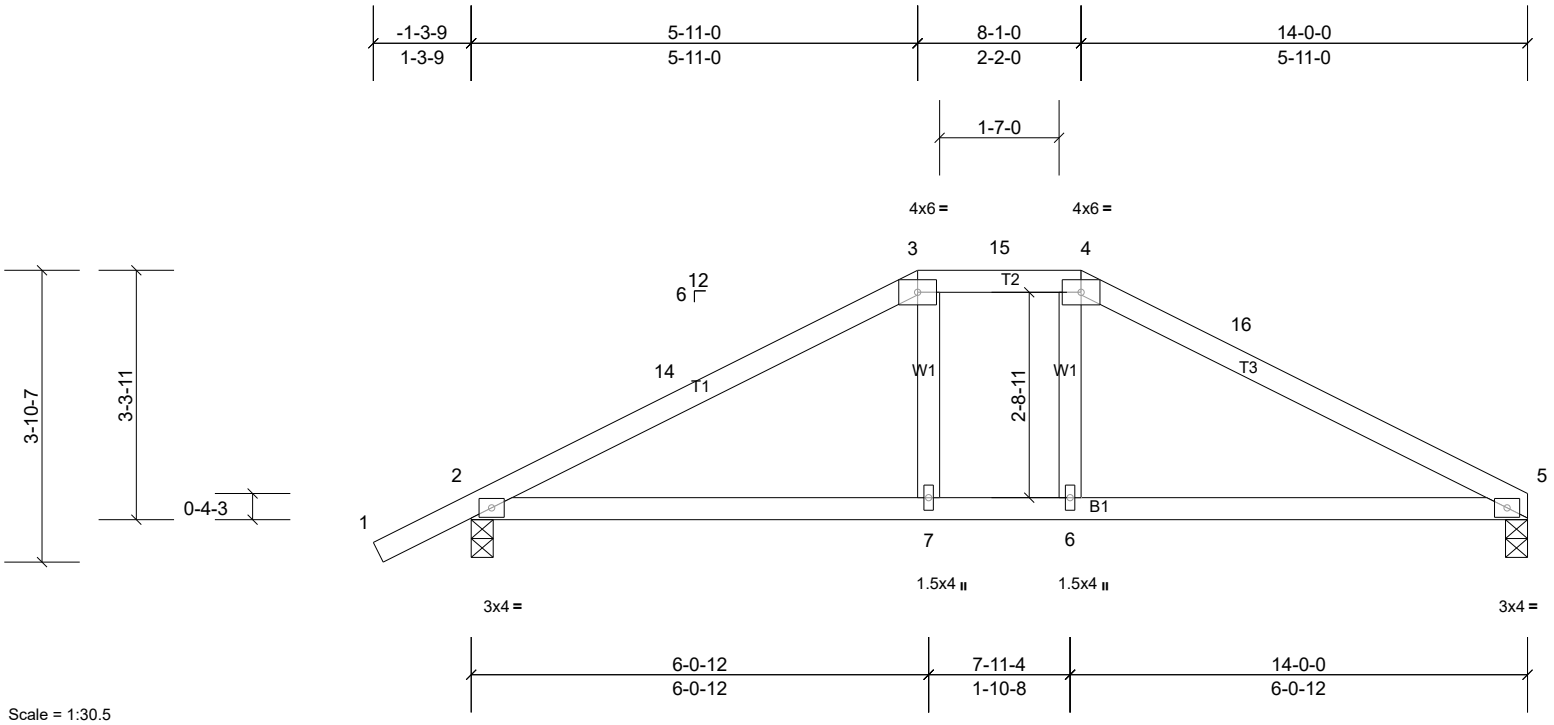

Scale = 1:30.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.25	TC	0.32	Vert(LL)	0.09	6-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.34	Vert(CT)	-0.11	6-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-AS							Weight: 54 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS (lb/size) 2=521/0-3-8, (min. 0-1-8), 5=460/0-3-8, (min. 0-1-8)
Max Horiz 2=99 (LC 15)
Max Uplift 2=-239 (LC 11), 5=-188 (LC 12)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-14=-671/364, 3-14=-632/376, 3-15=-569/406, 4-15=-569/406, 4-16=-610/384, 5-16=-670/374
BOT CHORD 2-7=-242/564, 6-7=-240/569, 5-6=-241/564

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C 8-1-0 to 14-0-0 zone; cantilever left and right exposed ; end vertical 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 live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 188 lb uplift at joint 5 and 239 lb uplift at joint 2.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Memphis J Frame
Memphis Frame	HGR07	Hip Girder	1	1	Job Reference (optional)

Maronda Homes, Sanford, Edwin Rios — Run: 8.72 S Nov 2 2023 Print: 8.720 S Nov 2 2023 MiTek Industries, Inc. Wed Nov 15 16:10:01 — Page: 1

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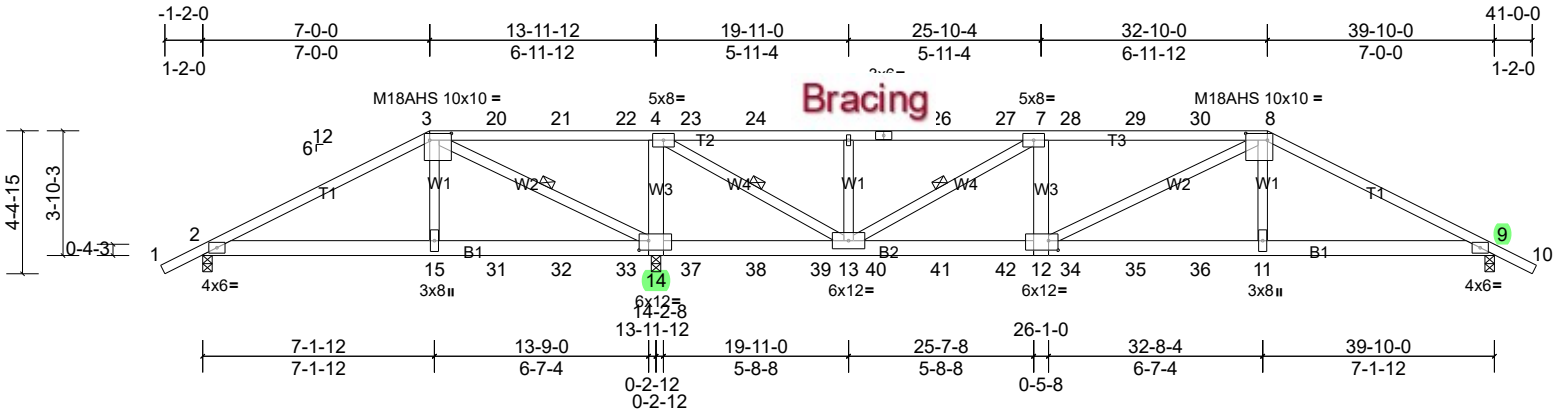

Scale = 1:71.1

Plate Offsets (X, Y): [3:0-8-0,0-2-8], [8:0-8-0,0-2-8], [12:0-3-8,0-3-8], [14:0-3-8,0-3-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.25	TC	0.81	Vert(LL)	0.26	11-12	>999	240	M18AHS	186/179
TCDL	7.0	Lumber DOL	1.25	BC	0.80	Vert(CT)	-0.29	11-12	>999	180	MT20	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.77	Horz(CT)	0.05	9	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							Weight: 228 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2 *Except* T2,T3:2x4 SP No.1D
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.2 *Except* W3:2x6 SP No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied or 2-6-14 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 5-3-6 oc bracing.
WEBS	1 Row at midpt 3-14, 7-13, 4-13

REACTIONS (lb/size) 2=363/0-3-8, (min. 0-1-8), 9=1480/0-3-8, (min. 0-1-12), 14=3745/0-3-8, (min. 0-1-8)
Max Horiz 2=-97 (LC 8)
Max Uplift 2=-348 (LC 7), 9=-930 (LC 8), 14=-2758 (LC 4)
Max Grav 2=372 (LC 20), 9=1483 (LC 21), 14=3745 (LC 1)

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

TOP CHORD 2-3=-350/511, 3-20=-1143/1811, 20-21=-1143/1811, 21-22=-1143/1811, 4-22=-1143/1811, 4-23=-1151/782, 23-24=-1151/782, 24-25=-1151/782, 5-25=-1151/782, 5-6=-1151/782, 6-26=-1151/782, 26-27=-1151/782, 7-27=-1151/782, 7-28=-2646/1817, 28-29=-2646/1817, 29-30=-2646/1817, 8-30=-2646/1817, 8-9=-2861/1799

BOT CHORD 2-15=-422/323, 15-31=-452/353, 31-32=-452/353, 32-33=-452/353, 14-33=-452/353, 12-34=-1474/2537, 34-35=-1474/2537, 35-36=-1474/2537, 11-36=-1474/2537, 9-11=-1459/2501, 14-37=-1811/1310, 37-38=-1811/1310, 38-39=-1811/1310, 13-39=-1811/1310, 13-40=-1625/2646, 40-41=-1625/2646, 41-42=-1625/2646, 12-42=-1625/2646

WEBS 3-15=-703/843, 8-11=-342/877, 3-14=-2327/1869, 8-12=-252/200, 4-14=-2137/1623, 7-12=-112/523, 7-13=-1735/1199, 5-13=-279/361, 4-13=-2176/3414

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone; porch left 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 live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 348 lb uplift at joint 2, 930 lb uplift at joint 9 and 2758 lb uplift at joint 14.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 60 lb down and 170 lb up at 7-0-0, 29 lb down and 88 lb up at 9-0-12, 29 lb down and 88 lb up at 11-0-12, 29 lb down and 88 lb up at 13-0-12, 29 lb down and 88 lb up at 15-0-12, 29 lb down and 88 lb up at 17-0-12, 29 lb down and 88 lb up at 19-0-12, 29 lb down and 88 lb up at 20-9-4, 29 lb down and 88 lb up at 22-9-4, 29 lb down and 88 lb up at 24-9-4, 29 lb down and 88 lb up at 26-9-4, 29 lb down and 88 lb up at 28-9-4, and 29 lb down and 88 lb up at 30-9-4, and 60 lb down and 173 lb up at 32-10-0 on top chord, and 458 lb down and 488 lb up at 7-0-0, 140 lb down and 128 lb up at 9-0-12, 140 lb down and 128 lb up at 11-0-12, 140 lb down and 128 lb up at 13-0-12, 140 lb down and 78 lb up at 15-0-12, 140 lb down and 78 lb up at 17-0-12, 140 lb down and 78 lb up at 19-0-12, 140 lb down and 78 lb up at 20-9-4, 140 lb down and 78 lb up at 22-9-4, 140 lb down and 78 lb up at 24-9-4, 140 lb down and 78 lb up at 26-9-4, 140 lb down and 78 lb up at 28-9-4, and 140 lb down and 78 lb up at 30-9-4, and 459 lb down and 261 lb up at 32-9-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Continued on page 2

Vert: 1-3=-46, 3-8=-46, 8-10=-46, 2-12=-20, 9-12=-20

Concentrated Loads (lb)

Vert: 3=-18, 6=-18, 8=-18, 15=-458, 11=-459, 20=-18, 21=-18, 22=-18, 23=-18, 24=-18, 25=-18, 26=-18, 27=-18, 28=-18, 29=-18, 30=-18, 31=-140, 32=-140, 33=-140, 34=-140, 35=-140, 36=-140, 37=-140, 38=-140, 39=-140, 40=-140, 41=-140, 42=-140

Job	Truss	Truss Type	Qty	Ply	Memphis J Frame
Memphis Frame	HGR09	Hip Girder	1	1	Job Reference (optional)

Maronda Homes, Sanford, Edwin Rios — Run: 8.72 S Nov 2 2023 Print: 8.720 S Nov 2 2023 MiTek Industries, Inc. Wed Nov 15 16:10:01 — Page: 1

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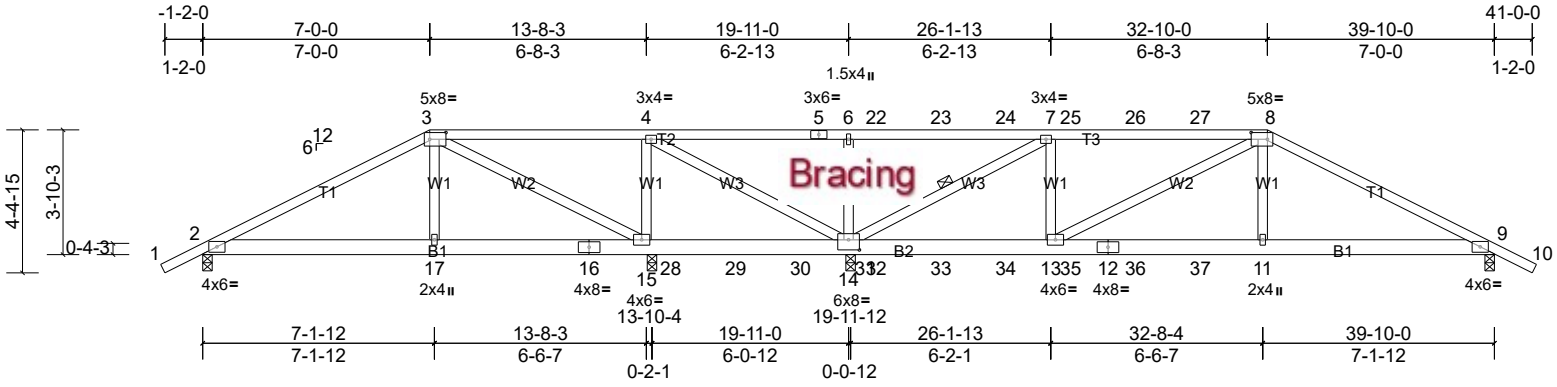

Scale = 1:71.1

Plate Offsets (X, Y): [3:0-6-0,0-2-8], [8:0-6-0,0-2-8], [14:0-4-0,0-3-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.25	TC	0.67	Vert(LL)	0.13	11-13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.78	Vert(CT)	-0.14	11-13	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.60	Horz(CT)	0.03	9	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							Weight: 223 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied or 3-10-5 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 7-14

REACTIONS All bearings 0-3-8.

(lb) - Max Horiz 2=-97 (LC 8)

Max Uplift All uplift 100 (lb) or less at joint(s) except 2=-274 (LC 26), 9=-646 (LC 8), 14=-1806 (LC 3), 15=-641 (LC 7)

Max Grav All reactions 250 (lb) or less at joint(s) except 2=399 (LC 20), 9=972 (LC 21), 14=2573 (LC 21), 15=1011 (LC 20)

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

TOP CHORD 2-3=-352/297, 3-4=-120/318, 4-5=-396/684, 5-6=-396/684, 6-22=-396/684, 22-23=-396/684, 23-24=-396/684, 7-24=-396/684, 7-25=-1208/911, 25-26=-1208/911, 26-27=-1208/911, 8-27=-1208/911, 8-9=-1701/1156

BOT CHORD 2-17=-212/273, 16-17=-212/279, 15-16=-212/279, 15-28=-318/294, 28-29=-318/294, 29-30=-318/294, 14-30=-318/294, 14-31=-739/1208, 31-32=-739/1208, 32-33=-739/1208, 33-34=-739/1208, 13-34=-739/1208, 13-35=-895/1487, 12-35=-895/1487, 12-36=-895/1487, 36-37=-895/1487, 11-37=-895/1487, 9-11=-884/1463

WEBS 8-11=-250/563, 6-14=-306/345, 4-15=-161/394, 7-13=-223/670, 4-14=-446/360, 7-14=-2157/1487, 3-15=-649/331, 8-13=-319/229

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone; cantilever left and right exposed ; end vertical left and right 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 live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 273 lb uplift at joint 2, 1806 lb uplift at joint 14, 640 lb uplift at joint 15 and 645 lb uplift at joint 9.
6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 29 lb down and 88 lb up at 20-9-4, 29 lb down and 88 lb up at 22-9-4, 29 lb down and 88 lb up at 24-9-4, 29 lb down and 88 lb up at 26-9-4, 29 lb down and 88 lb up at 28-9-4, and 29 lb down and 88 lb up at 30-9-4, and 33 lb down and 90 lb up at 32-10-0 on top chord, and 286 lb down and 236 lb up at 14-5-4, 286 lb down and 236 lb up at 16-5-4, 286 lb down and 236 lb up at 18-5-4, 182 lb down and 157 lb up at 20-5-4, 140 lb down and 78 lb up at 20-9-4, 140 lb down and 78 lb up at 22-9-4, 140 lb down and 78 lb up at 24-9-4, 140 lb down and 78 lb up at 26-9-4, 140 lb down and 78 lb up at 28-9-4, and 140 lb down and 78 lb up at 30-9-4, and 183 lb down and 171 lb up at 32-9-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (lb/ft)
   Vert: 1-3=-46, 3-8=-46, 8-10=-46, 2-9=-20
   Concentrated Loads (lb)

Continued on page 2

Vert: 8=-18, 11=-183, 22=-18, 23=-18, 24=-18, 25=-18, 26=-18, 27=-18, 28=-286, 29=-286, 30=-286, 31=-182, 32=-140, 33=-140, 34=-140, 35=-140, 36=-140, 37=-140

Job	Truss	Truss Type	Qty	Ply	Memphis J Frame
Memphis Frame	J16F	Jack-Open	4	1	Job Reference (optional)

Maronda Homes, Sanford, Edwin Rios — Run: 8.72 S Nov 2 2023 Print: 8.720 S Nov 2 2023 MiTek Industries, Inc. Wed Nov 15 16:10:01 — Page: 1

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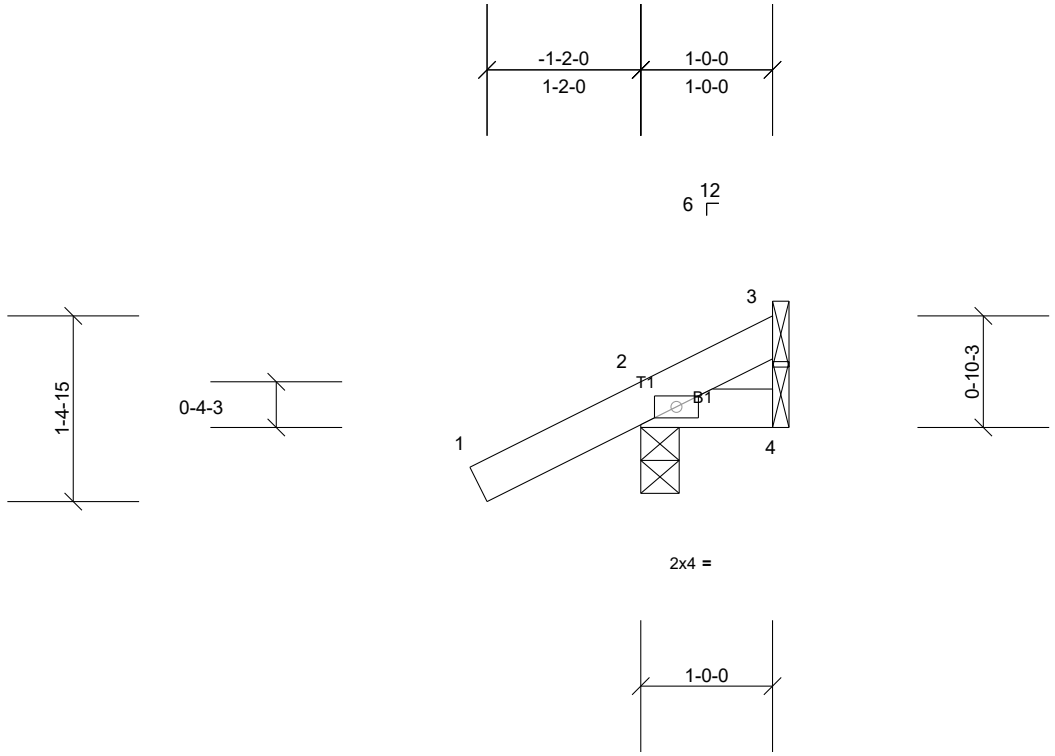

Scale = 1:17.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.25	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	n/a	-	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MP							Weight: 5 lb	FT = 0%

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

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

REACTIONS (lb/size) 2=125/0-3-8, (min. 0-1-8), 3=3/ Mechanical, (min. 0-1-8), 4=-6/ Mechanical, (min. 0-1-8)
Max Horiz 2=56 (LC 11)
Max Uplift 2=-93 (LC 11), 3=-2 (LC 11), 4=-6 (LC 1)
Max Grav 2=125 (LC 1), 3=9 (LC 7), 4=20 (LC 15)

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

NOTES
1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C 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 live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 3, 93 lb uplift at joint 2 and 6 lb uplift at joint 4.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Memphis J Frame
Memphis Frame	J16PF	Jack-Open	2	1	Job Reference (optional)

Maronda Homes, Sanford, Edwin Rios — Run: 8.72 S Nov 2 2023 Print: 8.720 S Nov 2 2023 MiTek Industries, Inc. Wed Nov 15 16:10:01 — Page: 1

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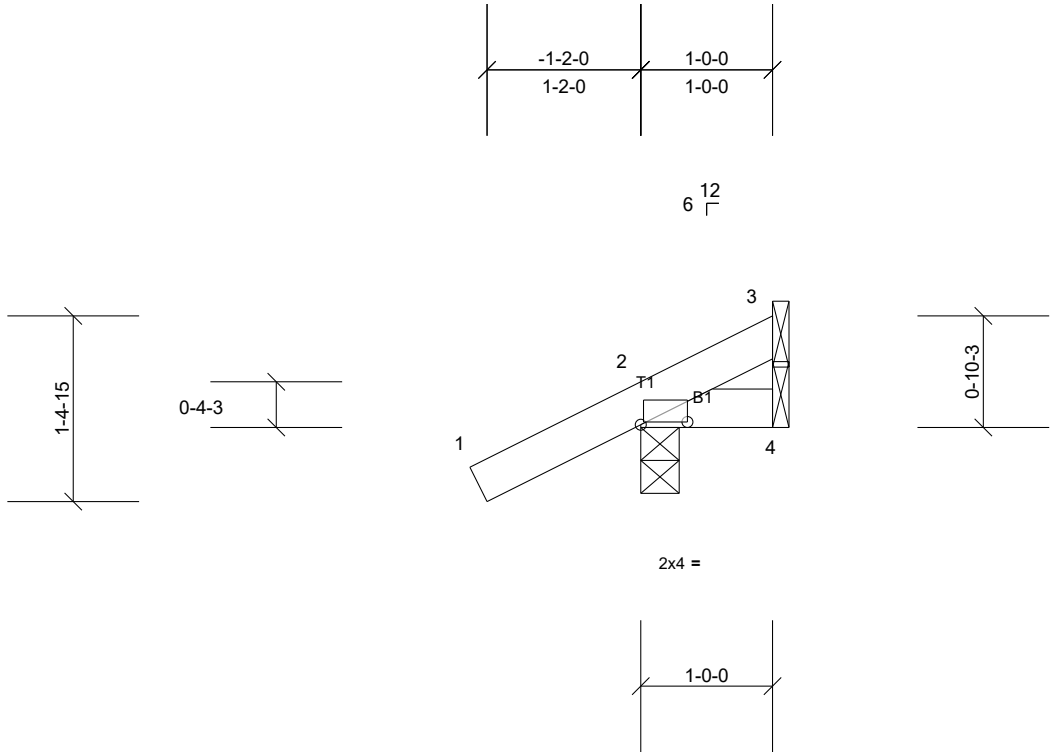


Scale = 1:17.5

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.25	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	n/a	-	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MP							Weight: 5 lb	FT = 0%

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

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

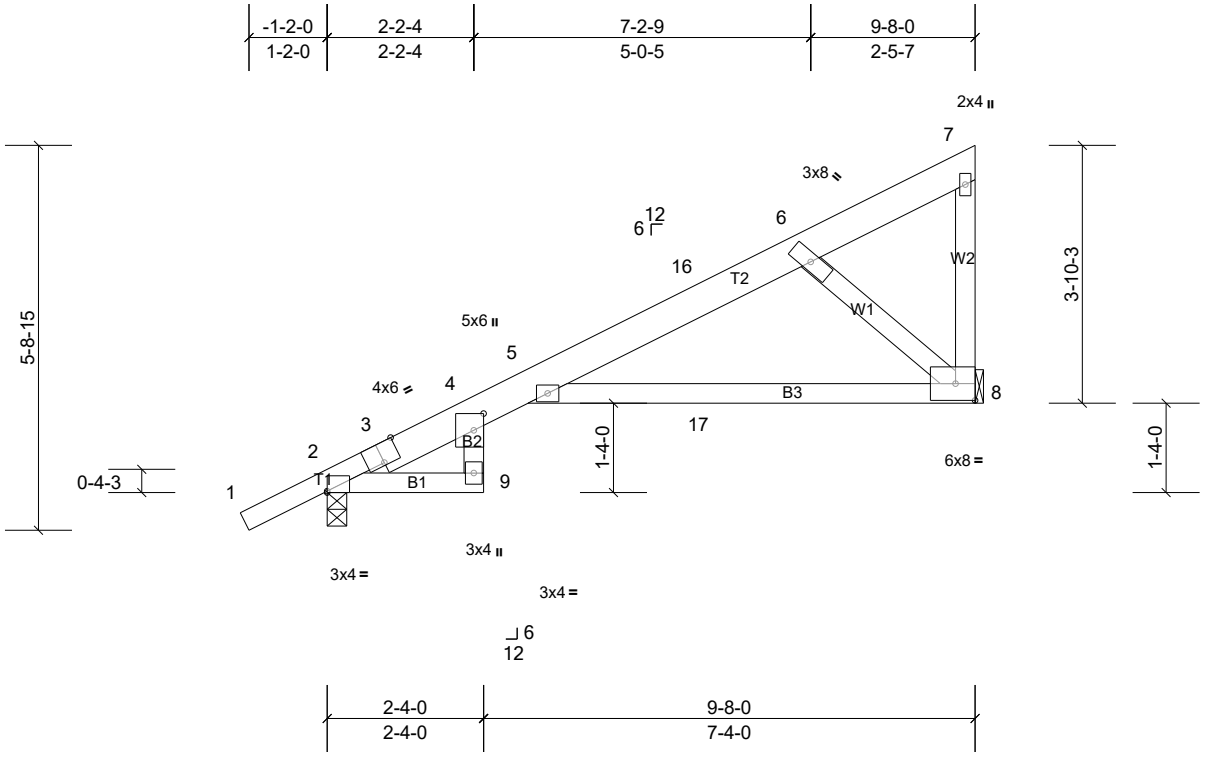
REACTIONS (lb/size) 2=125/0-3-8, (min. 0-1-8), 3=3/ Mechanical, (min. 0-1-8), 4=-6/ Mechanical, (min. 0-1-8)
Max Horiz 2=56 (LC 11)
Max Uplift 2=-93 (LC 11), 3=-6 (LC 8), 4=-7 (LC 18)
Max Grav 2=125 (LC 1), 3=6 (LC 16), 4=20 (LC 15)

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

NOTES
1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C zone; cantilever left exposed ; porch 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 live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 6 lb uplift at joint 3, 93 lb uplift at joint 2 and 7 lb uplift at joint 4.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Memphis J Frame
Memphis Frame	J20	Monopitch	3	1	Job Reference (optional)



Scale = 1:34.4

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.25	TC	0.70	Vert(LL)	0.34	8-15	>340	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.67	Vert(CT)	0.29	8-15	>397	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.21	Horz(CT)	-0.14	8	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-AS							Weight: 50 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* T2:2x6 SP No.1D
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS (lb/size) 2=363/0-3-8, (min. 0-1-8), 8=306/ Mechanical, (min. 0-1-8)
Max Horiz 2=283 (LC 11)
Max Uplift 2=-157 (LC 11), 8=-224 (LC 11)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-275/314, 3-4=-240/286, 5-16=-836/2066, 6-16=-280/571
BOT CHORD 2-9=-522/154, 5-17=-1483/578, 8-17=-967/340
WEBS 6-8=-425/1164

NOTES
1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C 9-6-4 to 9-6-4 zone; porch 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 live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 157 lb uplift at joint 2 and 224 lb uplift at joint 8.
5) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Memphis J Frame
Memphis Frame	J36F	Jack-Open	4	1	Job Reference (optional)

Maronda Homes, Sanford, Edwin Rios — Run: 8.72 S Nov 2 2023 Print: 8.720 S Nov 2 2023 MiTek Industries, Inc. Wed Nov 15 16:10:01 — Page: 1

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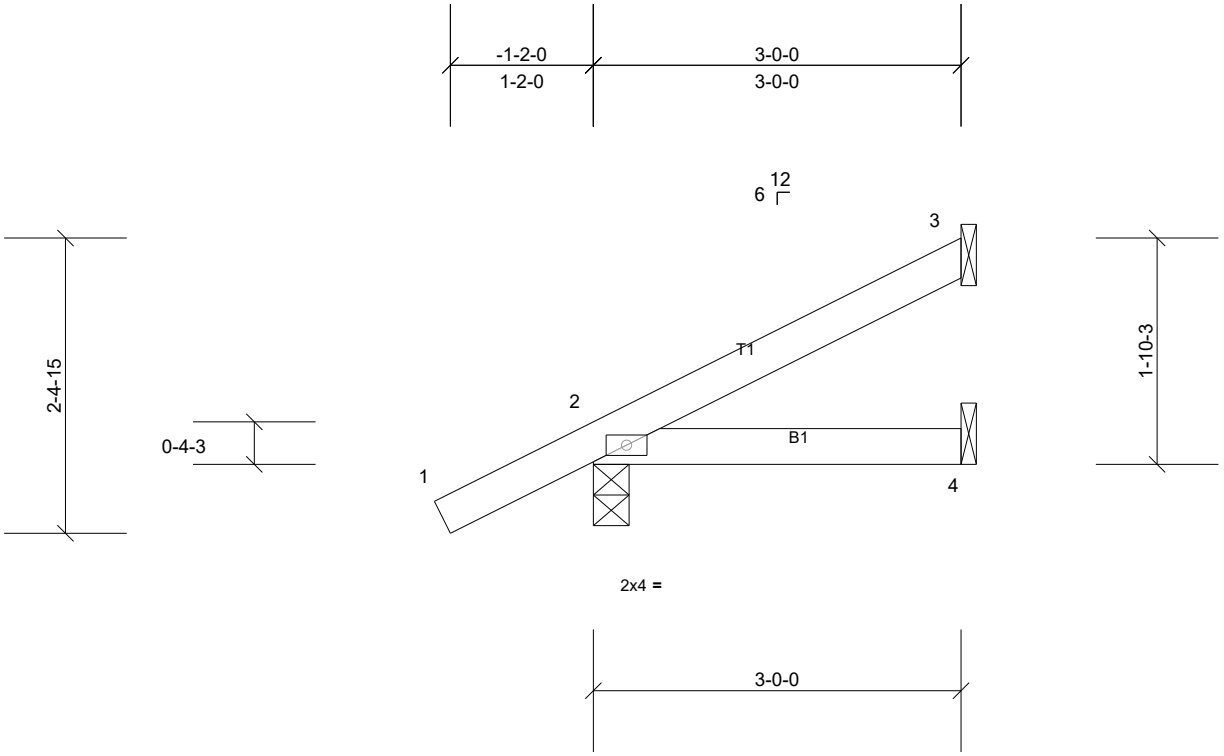

Scale = 1:18.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.25	TC	0.18	Vert(LL)	0.00	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.08	Vert(CT)	-0.01	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	n/a	-	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MP							Weight: 12 lb	FT = 0%

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

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

REACTIONS (lb/size) 2=165/0-3-8, (min. 0-1-8), 3=54/ Mechanical, (min. 0-1-8), 4=31/ Mechanical, (min. 0-1-8)
Max Horiz 2=109 (LC 11)
Max Uplift 2=-89 (LC 11), 3=-62 (LC 11)

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

NOTES
1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C 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 live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 62 lb uplift at joint 3 and 89 lb uplift at joint 2.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Memphis J Frame
Memphis Frame	J36PF	Jack-Open	2	1	Job Reference (optional)

Maronda Homes, Sanford, Edwin Rios — Run: 8.72 S Nov 2 2023 Print: 8.720 S Nov 2 2023 MiTek Industries, Inc. Wed Nov 15 16:10:01 — Page: 1

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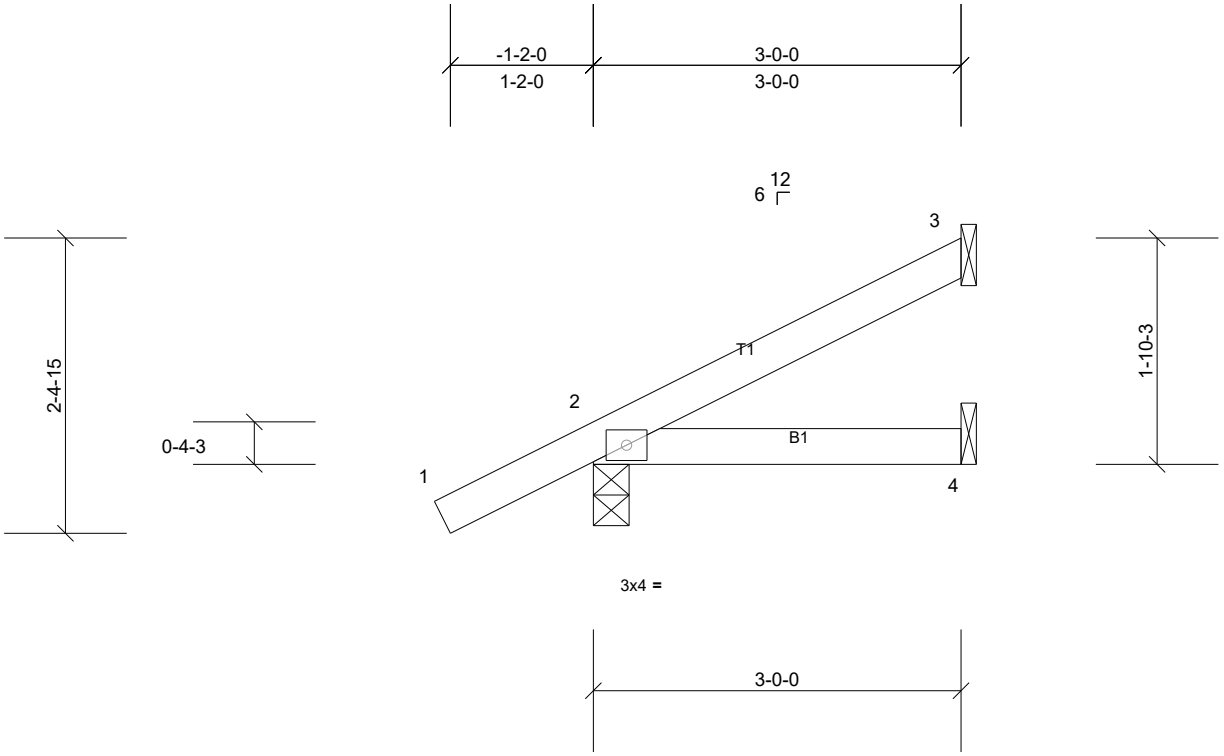

Scale = 1:18.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.25	TC	0.18	Vert(LL)	0.02	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.19	Vert(CT)	0.01	4-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MP							Weight: 12 lb	FT = 0%

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

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

REACTIONS (lb/size) 2=165/0-3-8, (min. 0-1-8), 3=54/ Mechanical, (min. 0-1-8), 4=31/ Mechanical, (min. 0-1-8)
Max Horiz 2=109 (LC 11)
Max Uplift 2=-89 (LC 11), 3=-62 (LC 11), 4=-24 (LC 8)

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

NOTES
1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C zone; cantilever left exposed ; porch 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 live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 62 lb uplift at joint 3, 89 lb uplift at joint 2 and 24 lb uplift at joint 4.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Memphis J Frame
Memphis Frame	J56F	Jack-Open	4	1	Job Reference (optional)

Maronda Homes, Sanford, Edwin Rios — Run: 8.72 S Nov 2 2023 Print: 8.720 S Nov 2 2023 MiTek Industries, Inc. Wed Nov 15 16:10:01 — Page: 1

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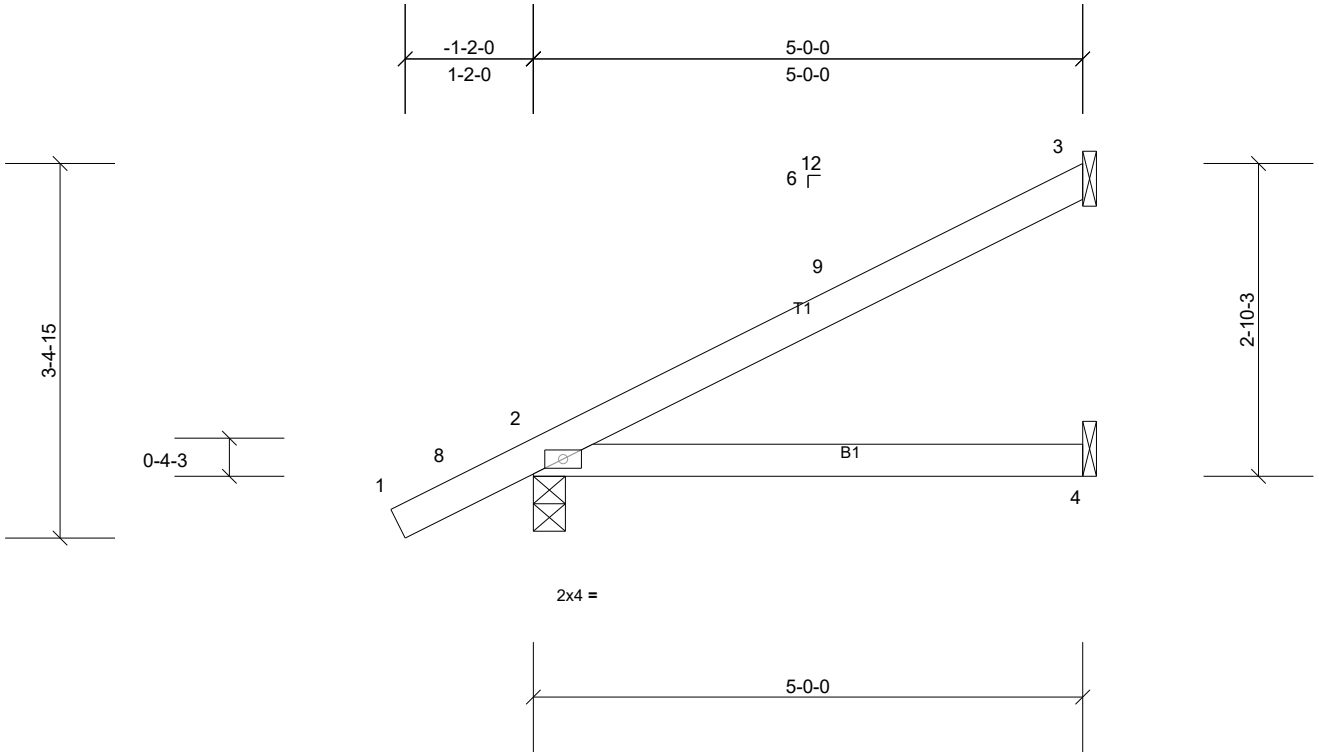

Scale = 1:21

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.25	TC	0.41	Vert(LL)	0.05	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.36	Vert(CT)	-0.06	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MP							Weight: 18 lb	FT = 0%

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

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

REACTIONS (lb/size) 2=227/0-3-8, (min. 0-1-8), 3=98/ Mechanical, (min. 0-1-8), 4=58/ Mechanical, (min. 0-1-8)
Max Horiz 2=163 (LC 11)
Max Uplift 2=-104 (LC 11), 3=-115 (LC 11)

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

NOTES
1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C 2-9-0 to 4-11-4 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 live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 115 lb uplift at joint 3 and 104 lb uplift at joint 2.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Memphis J Frame
Memphis Frame	J56PF	Jack-Open	2	1	Job Reference (optional)

Maronda Homes, Sanford, Edwin Rios — Run: 8.72 S Nov 2 2023 Print: 8.720 S Nov 2 2023 MiTek Industries, Inc. Wed Nov 15 16:10:01 — Page: 1

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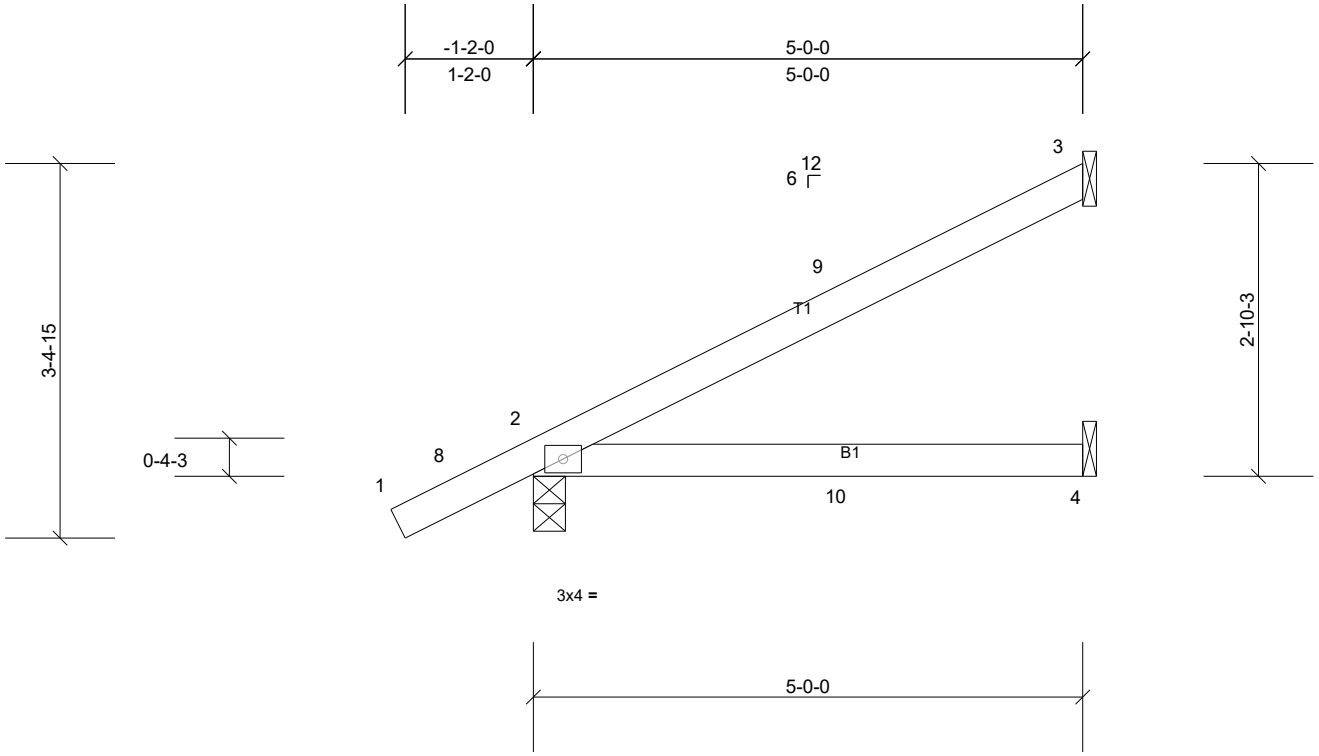


Scale = 1:21

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.25	TC	0.63	Vert(LL)	0.16	4-7	>380	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.67	Vert(CT)	0.14	4-7	>429	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MP							Weight: 18 lb	FT = 0%

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

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

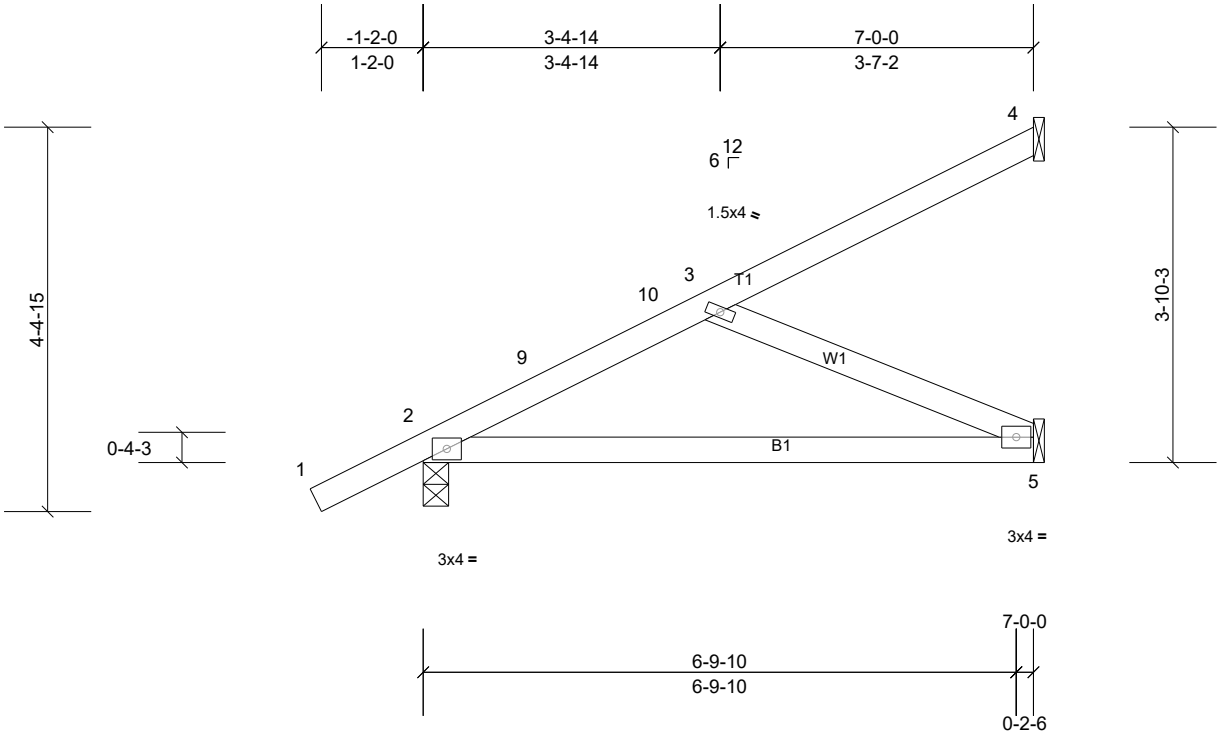
REACTIONS (lb/size) 2=227/0-3-8, (min. 0-1-8), 3=98/ Mechanical, (min. 0-1-8), 4=58/ Mechanical, (min. 0-1-8)
Max Horiz 2=163 (LC 11)
Max Uplift 2=-104 (LC 11), 3=-115 (LC 11), 4=-42 (LC 8)

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

NOTES
1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C 2-9-0 to 4-11-4 zone; cantilever left exposed ; porch 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 live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 115 lb uplift at joint 3, 104 lb uplift at joint 2 and 42 lb uplift at joint 4.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Memphis J Frame
Memphis Frame	J76F	Jack-Open	17	1	Job Reference (optional)



Scale = 1:26.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.25	TC	0.25	Vert(LL)	-0.01	5-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.30	Vert(CT)	-0.08	5-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MP							Weight: 30 lb	FT = 0%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-4-12 oc bracing.

REACTIONS (lb/size) 2=292/0-3-8, (min. 0-1-8), 4=64/ Mechanical, (min. 0-1-8), 5=160/ Mechanical, (min. 0-1-8)
Max Horiz 2=218 (LC 11)
Max Uplift 2=-123 (LC 11), 4=-94 (LC 11), 5=-66 (LC 11)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-9=-269/176, 9-10=-255/183
BOT CHORD 2-5=-383/305
WEBS 3-5=-333/418

NOTES
1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C 2-9-0 to 6-11-4 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 live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 94 lb uplift at joint 4, 123 lb uplift at joint 2 and 66 lb uplift at joint 5.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Memphis J Frame
Memphis Frame	J76PF	Jack-Open	4	1	Job Reference (optional)

Maronda Homes, Sanford, Edwin Rios — Run: 8.72 S Nov 2 2023 Print: 8.720 S Nov 2 2023 MiTek Industries, Inc. Wed Nov 15 16:10:01 — Page: 1

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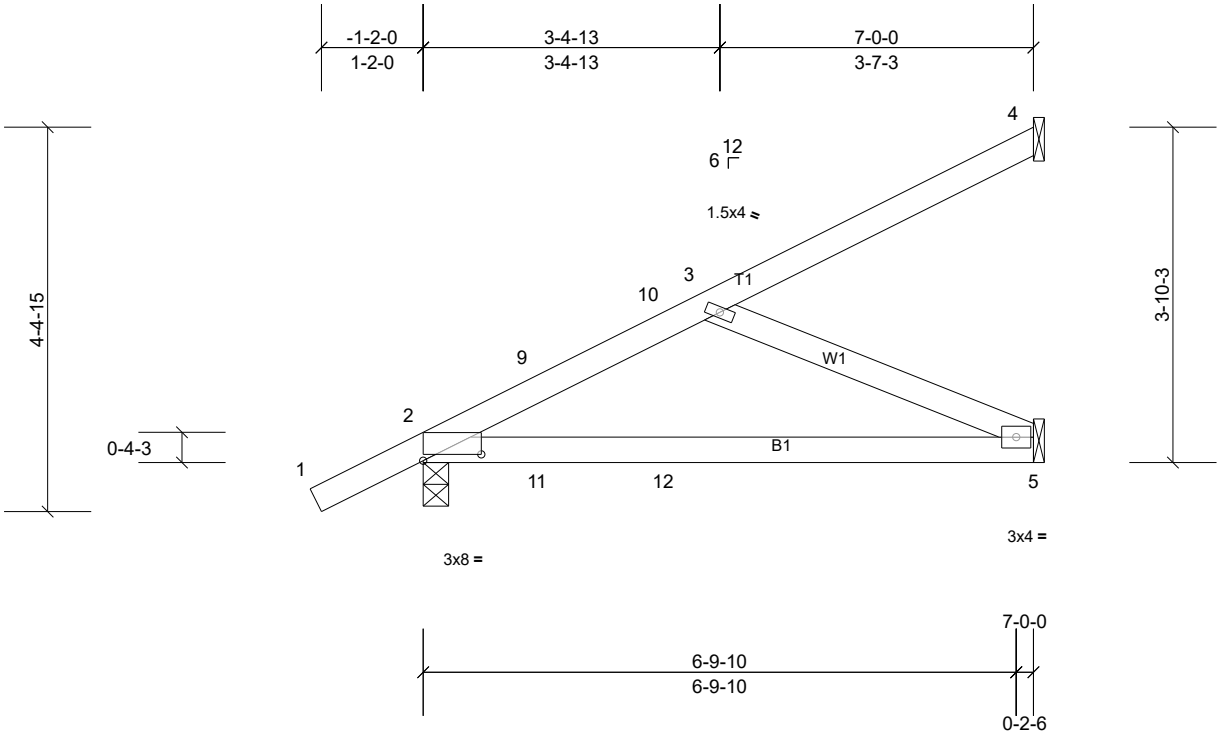

Scale = 1:26.4

Plate Offsets (X, Y): [2:0-8-0,0-0-14]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.25	TC	0.73	Vert(LL)	0.29	5-8	>292	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.86	Vert(CT)	0.25	5-8	>341	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(CT)	-0.01	5	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MP							Weight: 30 lb	FT = 0%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 2-11-3 oc bracing.

REACTIONS (lb/size) 2=292/0-3-8, (min. 0-1-8), 4=64/ Mechanical, (min. 0-1-8), 5=160/ Mechanical, (min. 0-1-8)
Max Horiz 2=218 (LC 11)
Max Uplift 2=-130 (LC 8), 4=-94 (LC 11), 5=-116 (LC 8)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-9=-269/402, 9-10=-256/403, 3-10=-222/411
BOT CHORD 2-11=-682/267, 11-12=-682/267, 5-12=-682/267
WEBS 3-5=-291/744

NOTES

1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C 2-9-0 to 6-11-4 zone; cantilever left exposed ; porch 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 live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 94 lb uplift at joint 4, 130 lb uplift at joint 2 and 116 lb uplift at joint 5.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Memphis J Frame
Memphis Frame	JGR76F	Diagonal Hip Girder	2	1	Job Reference (optional)

Maronda Homes, Sanford, Edwin Rios — Run: 8.72 S Nov 2 2023 Print: 8.720 S Nov 2 2023 MiTek Industries, Inc. Wed Nov 15 16:10:01 — Page: 1

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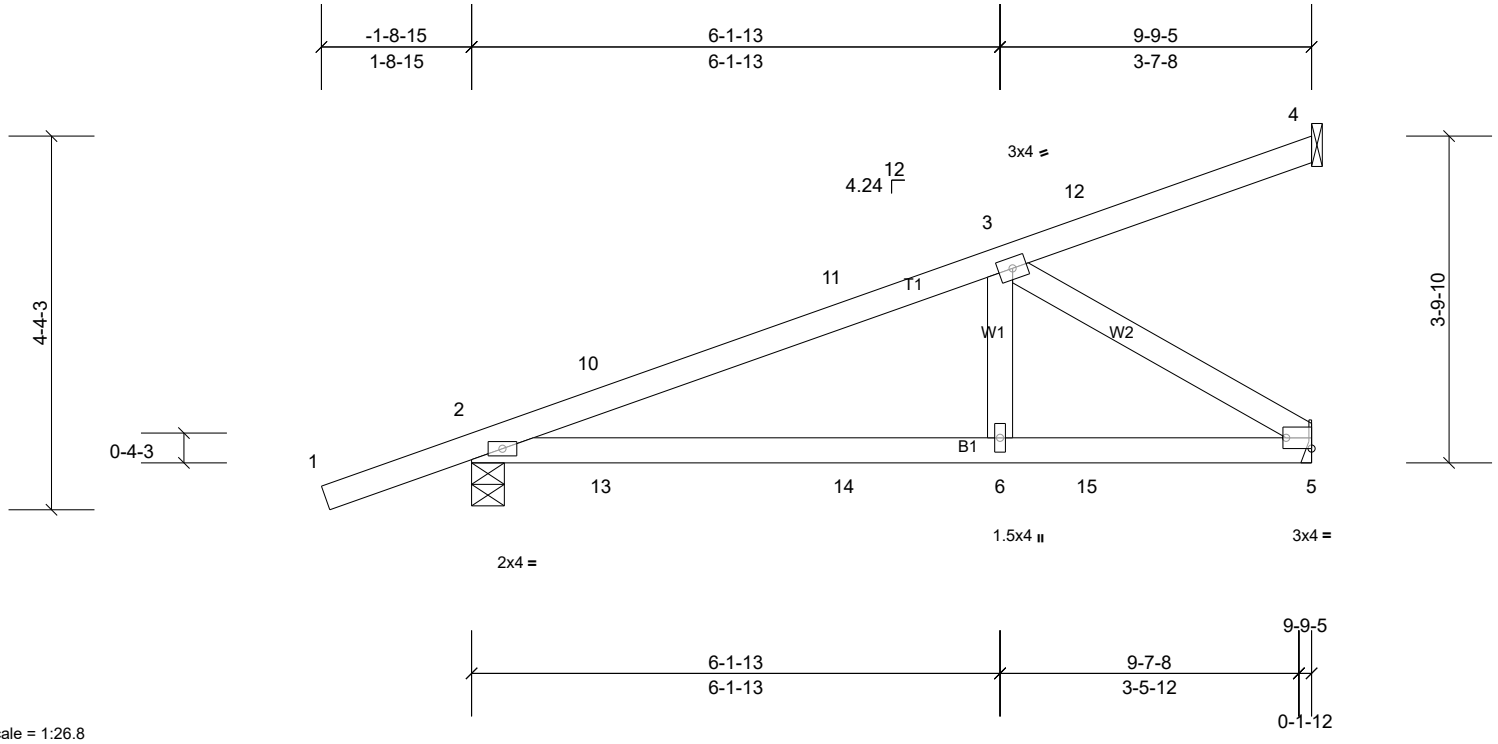

Scale = 1:26.8

Plate Offsets (X, Y): [5:Edge,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.25	TC	0.31	Vert(LL)	0.04	6-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.32	Vert(CT)	-0.06	6-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.20	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							Weight: 42 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS (lb/size) 2=446/0-4-9, (min. 0-1-8), 4=62/ Mechanical, (min. 0-1-8), 5=347/ Mechanical, (min. 0-1-8)
Max Horiz 2=231 (LC 24)
Max Uplift 2=-265 (LC 3), 4=-82 (LC 3), 5=-167 (LC 7)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-10=-577/207, 10-11=-551/215, 3-11=-511/201
BOT CHORD 2-13=-308/520, 13-14=-308/520, 6-14=-308/520, 6-15=-308/520, 5-15=-308/520
WEBS 3-5=-610/361

NOTES

1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
3) Refer to girder(s) for truss to truss connections.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 82 lb uplift at joint 4, 265 lb uplift at joint 2 and 167 lb uplift at joint 5.
6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 91 lb down and 5 lb up at 1-6-1, 91 lb down and 5 lb up at 1-6-1, 31 lb down and 66 lb up at 4-4-0, 31 lb down and 66 lb up at 4-4-0, and 55 lb down and 110 lb up at 7-1-15, and 55 lb down and 110 lb up at 7-1-15 on top chord, and 18 lb down and 9 lb up at 1-6-1, 18 lb down and 9 lb up at 1-6-1, 15 lb down at 4-4-0, 15 lb down at 4-4-0, and 33 lb down at 7-1-15, and 33 lb down at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (lb/ft)
   Vert: 1-4=-46, 5-7=-20
   Concentrated Loads (lb)
   Vert: 11=0, 12=-67, 14=-10, 15=-58

Job	Truss	Truss Type	Qty	Ply	Memphis J Frame
Memphis Frame	JGR76PF	Diagonal Hip Girder	1	1	Job Reference (optional)

Maronda Homes, Sanford, Edwin Rios — Run: 8.72 S Nov 2 2023 Print: 8.720 S Nov 2 2023 MiTek Industries, Inc. Wed Nov 15 16:10:01 — Page: 1

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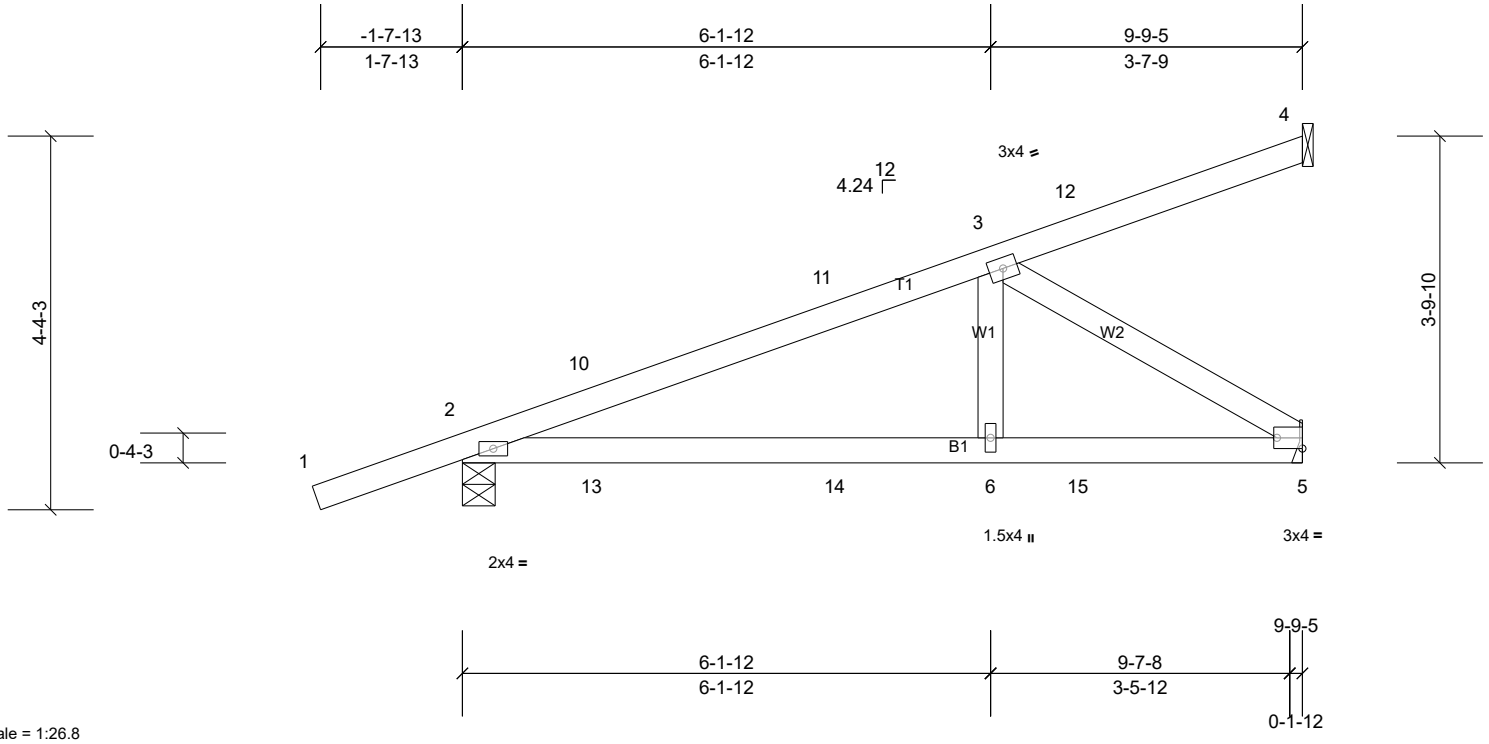

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Plate Offsets (X, Y): [5:Edge,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.25	TC	0.35	Vert(LL)	0.08	6-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.32	Vert(CT)	-0.06	6-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.20	Horz(CT)	-0.01	5	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							Weight: 42 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 7-10-9 oc bracing.

REACTIONS (lb/size) 2=446/0-4-9, (min. 0-1-8), 4=62/ Mechanical, (min. 0-1-8), 5=347/ Mechanical, (min. 0-1-8)
Max Horiz 2=231 (LC 3)
Max Uplift 2=-423 (LC 3), 4=-79 (LC 7), 5=-344 (LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-10=-578/439, 10-11=-552/444, 3-11=-511/439
BOT CHORD 2-13=-529/520, 13-14=-529/520, 6-14=-529/520, 6-15=-529/520, 5-15=-529/520
WEBS 3-5=-610/621

NOTES

1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
3) Refer to girder(s) for truss to truss connections.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 79 lb uplift at joint 4, 423 lb uplift at joint 2 and 344 lb uplift at joint 5.
6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 87 lb down and 8 lb up at 1-6-1, 87 lb down and 8 lb up at 1-6-1, 31 lb down and 66 lb up at 4-4-0, 31 lb down and 66 lb up at 4-4-0, and 55 lb down and 110 lb up at 7-1-15, and 55 lb down and 110 lb up at 7-1-15 on top chord, and 53 lb down and 9 lb up at 1-6-1, 53 lb down and 9 lb up at 1-6-1, 12 lb down and 40 lb up at 4-4-0, 12 lb down and 40 lb up at 4-4-0, and 34 lb down and 59 lb up at 7-1-15, and 34 lb down and 59 lb up at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (lb/ft)
   Vert: 1-4=-46, 5-7=-20
   Concentrated Loads (lb)
   Vert: 11=0, 12=-67, 14=-10, 15=-58

Job	Truss	Truss Type	Qty	Ply	Memphis J Frame gable bracing only Job Reference (optional)
Memphis Frame	LT01	Lay-In Gable	1	1	

Maronda Homes, Sanford, Edwin Rios — Run: 8.72 S Nov 2 2023 Print: 8.720 S Nov 2 2023 MiTek Industries, Inc. Wed Nov 15 16:10:01 — Page: 1

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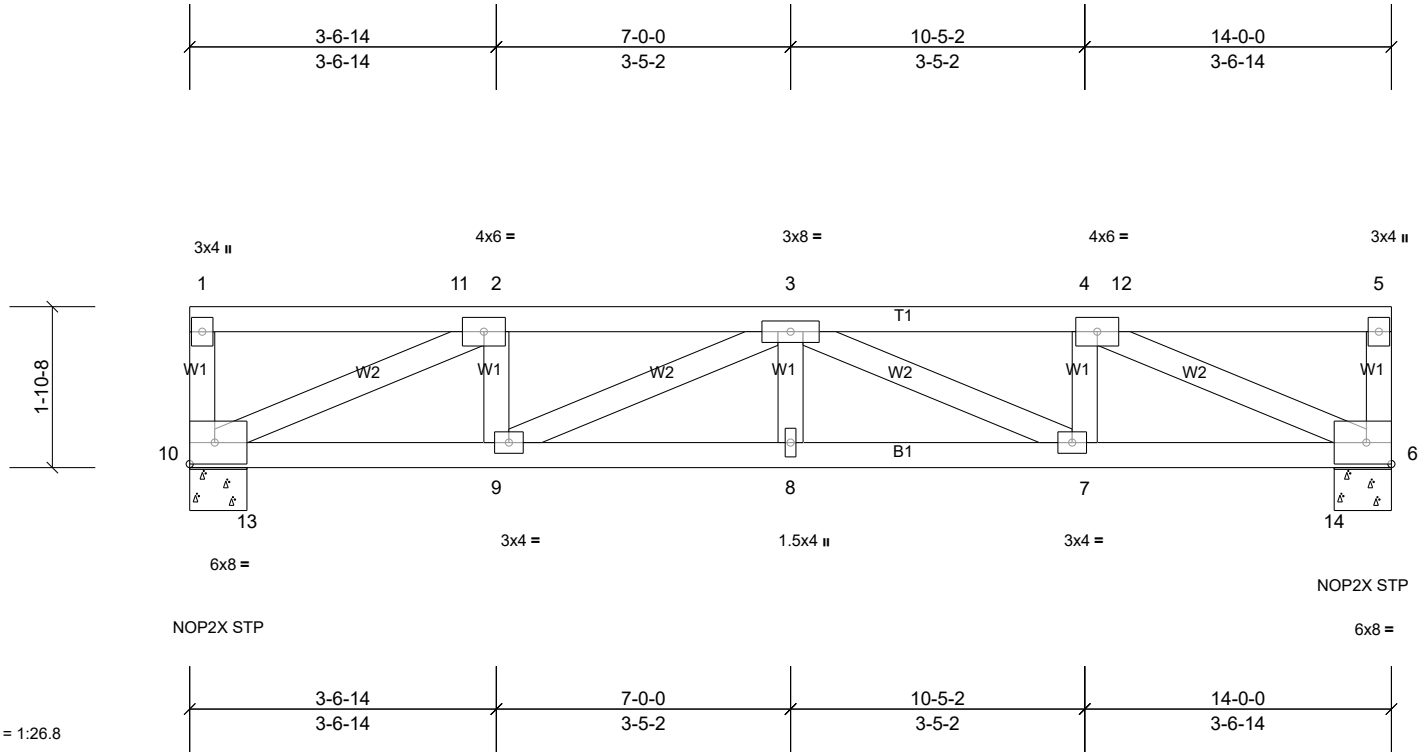

Scale = 1:26.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	5.0	Plate Grip DOL	1.25	TC	0.96	Vert(LL)	0.21	8-9	>787	240	MT20	244/190
TCDL	5.0	Lumber DOL	1.25	BC	0.97	Vert(CT)	-0.21	8	>769	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.73	Horz(CT)	0.07	6	n/a	n/a		
BCDL	5.0	Code	FRC2023/TPI2014	Matrix-MS							Weight: 71 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied or 3-1-13 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 3-0-3 oc bracing.

REACTIONS (lb/size) 6=1645/0-8-0, (min. 0-1-15), 10=1645/0-8-0, (min. 0-1-15)
Max Horiz 10=-81 (LC 7)
Max Uplift 6=-1371 (LC 24), 10=-1371 (LC 24)

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

TOP CHORD	1-10=-364/330, 2-3=-2780/2324, 3-4=-2780/2324, 5-6=-364/330
BOT CHORD	10-13=-2324/2780, 9-13=-2324/2780, 8-9=-3055/3646, 7-8=-3055/3646, 7-14=-2324/2780, 6-14=-2324/2780
WEBS	4-6=-2955/2476, 2-9=-1127/906, 2-10=-2955/2476, 3-9=-954/806, 3-8=-730/557, 3-7=-954/806, 4-7=-1127/906

NOTES

1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=3.0psf; BCDL=3.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C 13-10-4 to 13-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Provide adequate drainage to prevent water ponding.
3) Dead loads shown include weight of truss. Top chord dead load of 5.0 psf (or less) is not adequate for a shingle roof. Architect to verify adequacy of top chord dead load.
4) All plates are MT20 plates unless otherwise indicated.
5) WARNING: Top chord live load is below 12.0psf. Architect and/or engineer of the overall structure to verify adequacy of top chord live load.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 1371 lb uplift at joint 10 and 1371 lb uplift at joint 6.
8) Load case(s) 1, 2, 24, 25 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard Except:

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (lb/ft)
   Vert: 1-5=-230, 6-10=-10
2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (lb/ft)
   Vert: 1-5=-18, 10-13=-10, 13-14=-167, 6-14=-10
24) User defined (1): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (lb/ft)
   Vert: 1-5=210, 6-10=-10
25) User defined (2): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (lb/ft)
   Vert: 1-5=-18, 10-13=-10, 13-14=220, 6-14=-10

Job	Truss	Truss Type	Qty	Ply	Memphis J Frame
Memphis Frame	T01	Common	7	1	Job Reference (optional)

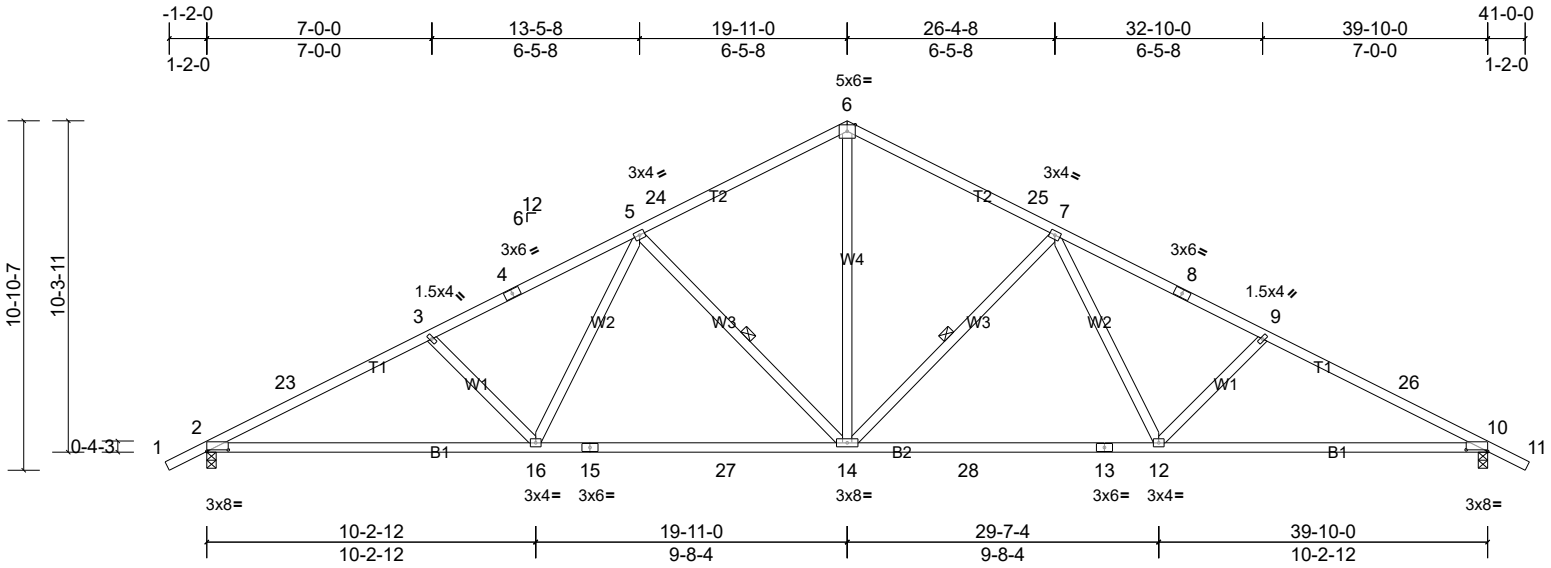

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Plate Offsets (X, Y): [2:0-8-0,0-0-10], [10:0-8-0,0-0-10]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.25	TC	0.56	Vert(LL)	-0.29	14-16	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.77	Vert(CT)	-0.50	14-16	>958	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.74	Horz(CT)	0.11	10	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-AS							Weight: 206 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.1D
WEBS 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 7-14, 5-14

REACTIONS (lb/size) 2=1371/0-3-8, (min. 0-1-9), 10=1371/0-3-8, (min. 0-1-9)
Max Horiz 2=-249 (LC 12)
Max Uplift 2=-579 (LC 11), 10=-579 (LC 12)
Max Grav 2=1564 (LC 2), 10=1564 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-23=-2832/998, 3-23=-2805/1014, 3-4=-2653/931, 4-5=-2594/953, 5-24=-1820/771, 6-24=-1765/793, 6-25=-1765/793, 7-25=-1820/771, 7-8=-2594/953, 8-9=-2653/931, 9-26=-2805/1014, 10-26=-2832/998
BOT CHORD 2-16=-1004/2511, 15-16=-674/2032, 15-27=-674/2032, 14-27=-674/2032, 14-28=-547/2032, 13-28=-547/2032, 12-13=-547/2032, 10-12=-766/2511
WEBS 6-14=-419/1337, 7-14=-664/494, 7-12=-173/671, 9-12=-314/370, 5-14=-664/494, 5-16=-173/671, 3-16=-314/369

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C 25-6-10 to 41-0-13 zone;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 live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 579 lb uplift at joint 2 and 579 lb uplift at joint 10.
5) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Memphis J Frame
Memphis Frame	T11	Roof Special	1	1	Job Reference (optional)

Maronda Homes, Sanford, Edwin Rios — Run: 8.72 S Nov 2 2023 Print: 8.720 S Nov 2 2023 MiTek Industries, Inc. Wed Nov 15 16:10:02 — Page: 1

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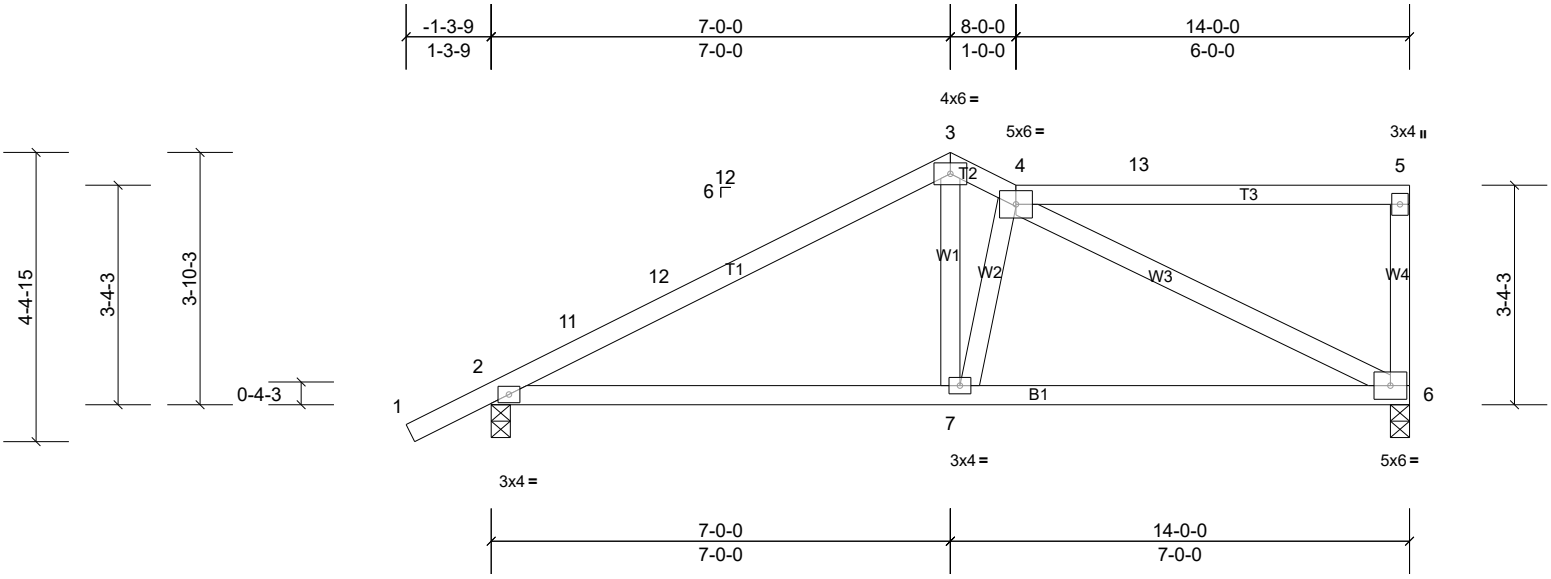

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.25	TC	0.44	Vert(LL)	0.10	7-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.36	Vert(CT)	-0.11	7-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-AS							Weight: 68 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS (lb/size) 2=516/0-3-8, (min. 0-1-8), 6=455/0-3-8, (min. 0-1-8)
Max Horiz 2=193 (LC 10)
Max Uplift 2=-234 (LC 11), 6=-207 (LC 12)

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

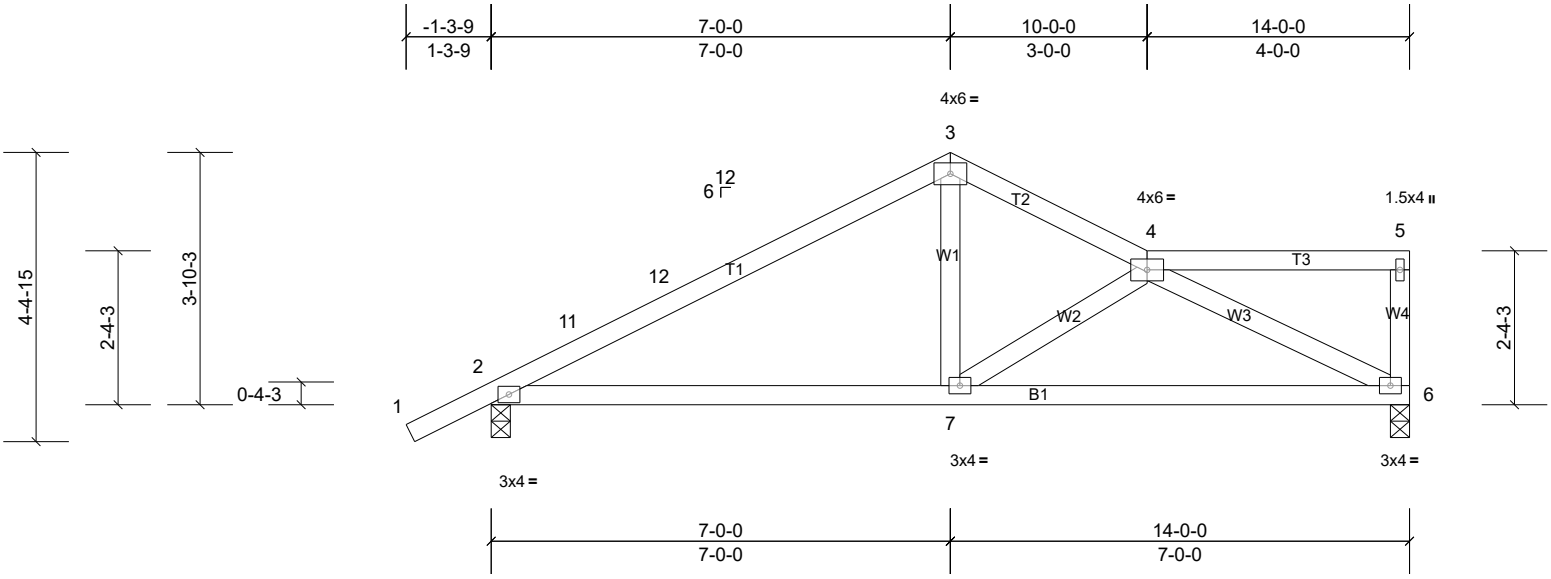
TOP CHORD	2-11=-620/338, 11-12=-587/343, 3-12=-574/359, 3-4=-557/405
BOT CHORD	2-7=-495/593, 6-7=-519/600
WEBS	4-6=-568/492, 3-7=-67/321

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C 13-10-4 to 13-10-4 zone; cantilever left and right exposed ; end vertical 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) WARNING: Top chord live load is below minimum required by FRC. The building design professional for the overall structure to verify adequacy of top chord live load.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 234 lb uplift at joint 2 and 207 lb uplift at joint 6.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Memphis J Frame
Memphis Frame	T12	Roof Special	1	1	Job Reference (optional)



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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.25	TC	0.46	Vert(LL)	0.10	7-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.37	Vert(CT)	-0.12	7-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-AS							Weight: 64 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS (lb/size) 2=516/0-3-8, (min. 0-1-8), 6=455/0-3-8, (min. 0-1-8)
Max Horiz 2=155 (LC 10)
Max Uplift 2=-234 (LC 11), 6=-194 (LC 12)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-11=-616/388, 11-12=-584/393, 3-12=-569/409, 3-4=-583/426
BOT CHORD 2-7=-430/547, 6-7=-549/612
WEBS 4-6=-638/568

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C 13-10-4 to 13-10-4 zone; cantilever left and right exposed ; end vertical 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) WARNING: Top chord live load is below minimum required by FRC. The building design professional for the overall structure to verify adequacy of top chord live load.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 234 lb uplift at joint 2 and 194 lb uplift at joint 6.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Memphis J Frame
Memphis Frame	T13	Roof Special	1	1	Job Reference (optional)

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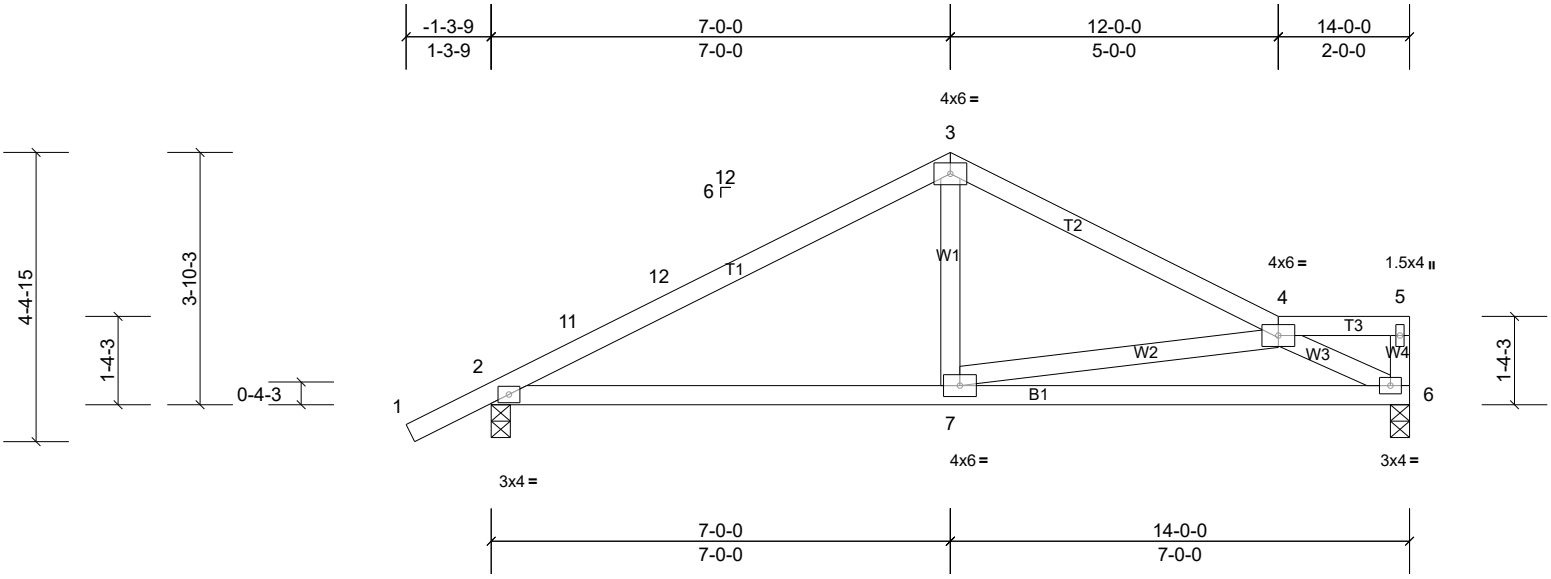

Scale = 1:35.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	0.10	7-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.37	Vert(CT)	-0.11	7-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-AS							Weight: 62 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS (lb/size) 2=516/0-3-8, (min. 0-1-8), 6=455/0-3-8, (min. 0-1-8)
Max Horiz 2=116 (LC 10)
Max Uplift 2=-235 (LC 11), 6=-186 (LC 12)

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

TOP CHORD	2-11=-619/428, 11-12=-587/434, 3-12=-573/450, 3-4=-614/431
BOT CHORD	2-7=-343/513, 6-7=-580/680
WEBS	4-6=-729/762, 4-7=-222/363

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C 13-10-4 to 13-10-4 zone; cantilever left and right exposed ; end vertical 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) WARNING: Top chord live load is below minimum required by FRC. The building design professional for the overall structure to verify adequacy of top chord live load.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 186 lb uplift at joint 6 and 235 lb uplift at joint 2.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard