

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: Scott A Lewkowski P.E. 258 Southhall Lane, Suite 200 Maitland, FL 32751 FL PE # 78750
 Engineer/Architect of Record: Thien Bao Duong P.E. 258 Southhall Lane, Suite 200 Maitland, FL 32751 FL PE # 94452
 Design Criteria: TPI Design: Matrix Analysis MiTek software

PLAN JOB #	LOT	ADDRESS	DIV/SUB	MODEL
9FC00501	5-1	TBD SW CADENCE GLEN LAKE CITY, FL 32024	JAW/9FC	WLWJ42F/LH

WILLOW 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.

Truss ID	Run Date	Drawing Reviewed	Truss ID	Run Date	Drawing Reviewed	No. of Eng. Dwg's:	47
Layout	07/29/24		T10E	07/29/24		Roof Loads-	
REACTION SUMMARY	07/29/24		V01	07/29/24		TC Live:	16.0 psf
MII WEB PLATE	2021		V02	07/29/24		TC Dead:	7.0 psf
OR1	2009		V03	07/29/24		BC Live:	0.0 psf
ST-4ply Screw	2012		V11	07/29/24		BC Dead:	10.0 psf
VC1	2009		V12	07/29/24		Total	33.0 psf
TN1	2009		V13	07/29/24		DurFac- Lbr:	1.25
MII-REP01A1	2021		V14	07/29/24		DurFac- Plt:	1.25
GP01	07/29/24		V15	07/29/24		O.C. Spacing:	24.0"
H02	07/29/24					Floor Loads-	
H02A	07/29/24					TC Live:	40.0 psf
H03	07/29/24					TC Dead:	10.0 psf
H03A	07/29/24					BC Live:	0.0 psf
H04	07/29/24					BC Dead:	5.0 psf
H04A	07/29/24					Total	55.0 psf
H05	07/29/24					DurFac- Lbr:	1.00
H05A	07/29/24					DurFac- Plt:	1.00
H06	07/29/24					O.C. Spacing:	24.0"
H06A	07/29/24						
H07	07/29/24						
H07A	07/29/24						
HGR01	07/29/24						
HGR01A	07/29/24						
HGR10E	07/29/24						
J15	07/29/24						
J15E	07/29/24						
J35	07/29/24						
J35E	07/29/24						
J35S	07/29/24						
J55	07/29/24						
J55S	07/29/24						
J75	07/29/24						
J75S	07/29/24						
J95	07/29/24						
JGR03E	07/29/24		INV #	DESC	QNTY		
JGR95	07/29/24		050060.0110	JUS26			
T09	07/29/24		050060.0047	THD28			
T09A	07/29/24		050060.0049	THD28-2			
			050060.0106	HUS26			
			050060.0272	HUS179			
			050060.0058	HJC26	4		
			050060.0312	HJC26-SK60			
			SEAT PLATES				
			FLOOR SEAT PLATES				



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



2-18-25
 TO 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.

- 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.

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



2-18-25

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.

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FLORIDA:

THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF SECTION R301 OF THE FLORIDA BUILDING CODE 8th EDITION (2023); RESIDENTIAL ALUMINUM 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 BC STORAGE LL 20 psf

<i>SHEET:</i>		
TR1		Page 1 of 1
TEMPLATE REVISION DATE 10/09/23 CDH		

Reaction Summary

MIPS of Sanford, LLC
4005 Maronda Way
Sanford FL 32771
Business: (407) 321-0064
SOLD TO Maronda Homes

JOB NAME Willow 2023

STRUCTURE G

SHIP TO
Willow J (frame)
Base model

MODEL WILLOW

TRANSACTION # 23001887

STATUS Quote

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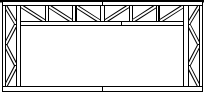
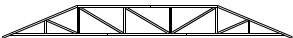
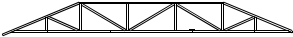
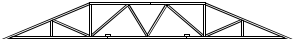
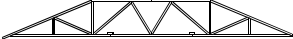
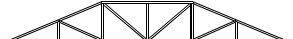
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SALES REP MiTek Industries

JOB CATEGORY

Roof Loading				Floor Loading			
TC Live:	TC Dead:	BC Live:	BC Dead:	TC Live:	TC Dead:	BC Live:	BC Dead:
20	12	0	10				

Building Code	Wind Design Method	Exp Cat	Occ Cat	Velocity	TC Dead	BC Dead
FRC2023/TPI2014	MWFRS (Envelope)/C-C hybrid Wind ASCE 7-22	C	II	160	4.2	6

PROFILE	LABEL	PITCH	HEIGHT	SPAN	SPACING	REACTIONS
	GP01	0 / 12	8-11-10	19-11-00	24" o.c	REACTIONS All bearings 1-10-00. (lb) - Max Horiz 18=293 (LC 41) Max Uplift All uplift 100 (lb) or less at joint(s) except 18=-3290 (LC 20), 19=-4161 (LC 21), 21=-4491 (LC 21), 22=-2528 (LC 21) Max Grav All reactions 250 (lb) or less at joint(s) except 18=4253 (LC 2), 19=3725 (LC 1), 21=4587 (LC 2), 22=1886 (LC 1)
	H02	5 / 12	4-11-01	45-00-00	24" o.c	REACTIONS (lb/size) 2=1541/3-08, (min. 1-13), 10=1541/4-08, (min. 1-13) Max Horiz 2=157 (LC 11) Max Uplift 2=-1026 (LC 11), 10=-1026 (LC 12)
	H02A	5 / 12	4-11-01	45-00-00	24" o.c	REACTIONS (lb/size) 2=1542/3-08, (min. 1-13), 10=1484/3-08, (min. 1-12) Max Horiz 2=172 (LC 11) Max Uplift 2=-1026 (LC 11), 10=-961 (LC 12)
	H03	5 / 12	5-09-01	45-00-00	24" o.c	REACTIONS (lb/size) 2=1541/3-08, (min. 1-12), 10=1541/4-08, (min. 1-12) Max Horiz 2=182 (LC 11) Max Uplift 2=-1023 (LC 11), 10=-1023 (LC 12) Max Grav 2=1728 (LC 2), 10=1728 (LC 2)
	H03A	5 / 12	5-09-01	45-00-00	24" o.c	REACTIONS (lb/size) 2=1542/3-08, (min. 1-12), 10=1484/3-08, (min. 1-11) Max Horiz 2=198 (LC 15) Max Uplift 2=-1023 (LC 11), 10=-958 (LC 12) Max Grav 2=1728 (LC 2), 10=1681 (LC 2)
	H04	5 / 12	6-07-01	45-00-00	24" o.c	REACTIONS (lb/size) 2=1541/3-08, (min. 1-12), 8=1541/4-08, (min. 1-12) Max Horiz 2=208 (LC 11) Max Uplift 2=-1020 (LC 11), 8=1020 (LC 12) Max Grav 2=1732 (LC 2), 8=1732 (LC 2)
	H04A	5 / 12	6-07-01	45-00-00	24" o.c	REACTIONS (lb/size) 2=1398/3-08, (min. 1-14), 9=1628/3-08, (min. 2-03) Max Horiz 2=223 (LC 11) Max Uplift 2=-958 (LC 11), 9=-1052 (LC 8) Max Grav 2=1571 (LC 2), 9=1851 (LC 2)
	H05	5 / 12	7-05-01	45-00-00	24" o.c	REACTIONS (lb/size) 2=1541/3-08, (min. 1-12), 12=1541/4-08, (min. 1-12) Max Horiz 2=234 (LC 15) Max Uplift 2=-1016 (LC 11), 12=-1016 (LC 12) Max Grav 2=1725 (LC 2), 12=1725 (LC 2)
	H05A	5 / 12	7-05-01	45-00-00	24" o.c	REACTIONS (lb/size) 2=1396/3-08, (min. 1-13), 13=1631/3-08, (min. 2-03) Max Horiz 2=249 (LC 15) Max Uplift 2=-953 (LC 11), 13=-1044 (LC 12) Max Grav 2=1561 (LC 2), 13=1844 (LC 2)
	H06	5 / 12	8-03-01	45-00-00	24" o.c	REACTIONS (lb/size) 2=1541/3-08, (min. 1-12), 11=1541/4-08, (min. 1-12) Max Horiz 2=259 (LC 11) Max Uplift 2=-1012 (LC 11), 11=-1012 (LC 12) Max Grav 2=1750 (LC 2), 11=1754 (LC 2)

Reaction Summary

MIPS of Sanford, LLC
4005 Maronda Way
Sanford FL 32771
Business: (407) 321-0064
SOLD TO Maronda Homes

JOB NAME Willow 2023

TRANSACTION # 23001887

STATUS Quote

STRUCTURE G

MODEL WILLOW

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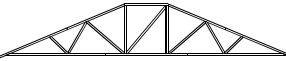
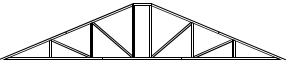
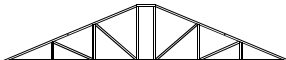
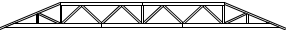
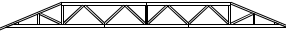
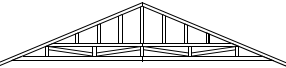
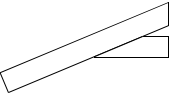
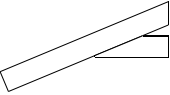
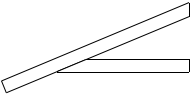
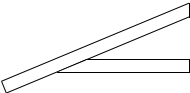
SHIP TO
Willow J (frame)
Base model

SALES REP MiTek Industries

JOB CATEGORY

Roof Loading				Floor Loading			
TC Live:	TC Dead:	BC Live:	BC Dead:	TC Live:	TC Dead:	BC Live:	BC Dead:
20	12	0	10				

Building Code	Wind Design Method	Exp Cat	Occ Cat	Velocity	TC Dead	BC Dead
FRC2023/TPI2014	MWFRS (Envelope)/C-C hybrid Wind ASCE 7-22	C	II	160	4.2	6

PROFILE	LABEL	PITCH	HEIGHT	SPAN	SPACING	REACTIONS
	H06A	5 /12	8-03-01	45-00-00	24" o.c	REACTIONS (lb/size) 2=1542/3-08, (min. 1-12), 11=1484/3-08, (min. 1-12) Max Horiz 2=275 (LC 15) Max Uplift 2=-1012 (LC 11), 11=-946 (LC 12) Max Grav 2=1751 (LC 2), 11=1707 (LC 2)
	H07	5 /12	9-01-01	45-00-00	24" o.c	REACTIONS (lb/size) 2=1541/3-08, (min. 1-12), 11=1541/3-08, (min. 1-12) Max Horiz 2=285 (LC 11) Max Uplift 2=-1007 (LC 11), 11=-1007 (LC 12) Max Grav 2=1747 (LC 2), 11=1747 (LC 2)
	H07A	5 /12	9-01-01	45-00-00	24" o.c	REACTIONS (lb/size) 2=1542/3-08, (min. 1-12), 11=1484/3-08, (min. 1-11) Max Horiz 2=300 (LC 15) Max Uplift 2=-1007 (LC 11), 11=-942 (LC 12) Max Grav 2=1747 (LC 2), 11=1700 (LC 2)
	HGR01	5 /12	4-01-01	45-00-00	24" o.c	REACTIONS (lb/size) 2=4199/3-08, (min. 2-02), 12=4206/4-08, (min. 2-02) Max Horiz 2=129 (LC 26) Max Uplift 2=-3885 (LC 3), 12=-3893 (LC 4)
	HGR01 A	5 /12	4-01-01	45-00-00	24" o.c	REACTIONS (lb/size) 2=4204/3-08, (min. 2-02), 12=4139/3-08, (min. 2-01) Max Horiz 2=146 (LC 7) Max Uplift 2=-3889 (LC 3), 12=-3800 (LC 8)
	HGR10 E	5 /12	5-04-02	24-00-08	24" o.c	REACTIONS (lb/size) 2=1005/3-00, (min. 1-08), 21=1005/3-00, (min. 1-08) Max Horiz 2=170 (LC 7) Max Uplift 2=-1021 (LC 3), 21=-1020 (LC 4)
	J15	5 /12	9-01	1-00-00	24" o.c	REACTIONS (lb/size) 2=124/3-08, (min. 1-08), 3=3/ Mechanical, (min. 1-08), 4=-5/ Mechanical, (min. 1-08) Max Horiz 2=60 (LC 11) Max Uplift 2=-150 (LC 7), 3=-2 (LC 11), 4=-5 (LC 1) Max Grav 2=124 (LC 1), 3=10 (LC 7), 4=28 (LC 7)
	J15E	5 /12	9-01	1-00-00	24" o.c	REACTIONS (lb/size) 2=199/3-00, (min. 1-08), 3=-33/ Mechanical, (min. 1-08), 4=-45/ Mechanical, (min. 1-08) Max Horiz 2=60 (LC 11) Max Uplift 2=-242 (LC 7), 3=-33 (LC 1), 4=-45 (LC 1) Max Grav 2=199 (LC 1), 3=54 (LC 7), 4=77 (LC 7)
	J35	5 /12	1-07-01	3-00-00	24" o.c	REACTIONS (lb/size) 2=165/3-08, (min. 1-08), 3=54/ Mechanical, (min. 1-08), 4=32/ Mechanical, (min. 1-08) Max Horiz 2=118 (LC 11) Max Uplift 2=-135 (LC 11), 3=-77 (LC 11), 4=-1 (LC 11)
	J35E	5 /12	1-07-01	3-00-00	24" o.c	REACTIONS (lb/size) 2=189/3-00, (min. 1-08), 3=42/ Mechanical, (min. 1-08), 4=19/ Mechanical, (min. 1-08) Max Horiz 2=118 (LC 11) Max Uplift 2=-209 (LC 7), 3=-67 (LC 11), 4=-27 (LC 8) Max Grav 2=189 (LC 1), 3=42 (LC 1), 4=23 (LC 16)

Reaction Summary

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JOB NAME Willow 2023

TRANSACTION # 23001887

STATUS Quote

STRUCTURE G

MODEL WILLOW

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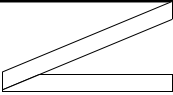
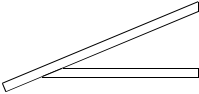
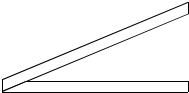
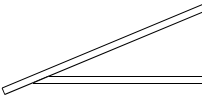
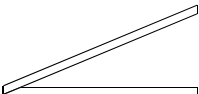
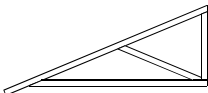
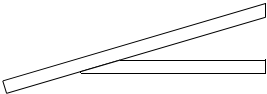
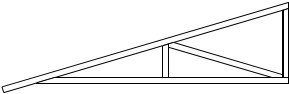
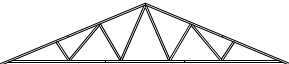
SHIP TO
Willow J (frame)
Base model

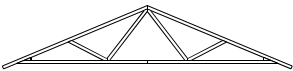
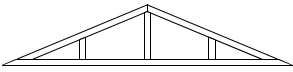
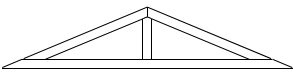
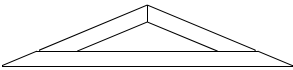
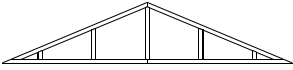
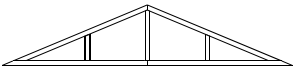
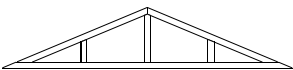
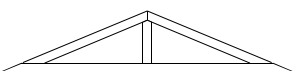
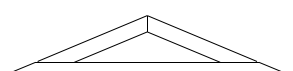
SALES REP MiTek Industries

JOB CATEGORY

Roof Loading				Floor Loading			
TC Live:	TC Dead:	BC Live:	BC Dead:	TC Live:	TC Dead:	BC Live:	BC Dead:
20	12	0	10				

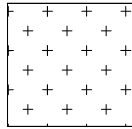
Building Code	Wind Design Method	Exp Cat	Occ Cat	Velocity	TC Dead	BC Dead
FRC2023/TPI2014	MWFRS (Envelope)/C-C hybrid Wind ASCE 7-22	C	II	160	4.2	6

PROFILE	LABEL	PITCH	HEIGHT	SPAN	SPACING	REACTIONS	
	J35S	5 /12	1-07-01	3-00-00	24" o.c	REACTIONS	(lb/size) 1=97/3-08, (min. 1-08), 2=59/ Mechanical, (min. 1-08), 3=38/ Mechanical, (min. 1-08) Max Horiz 1=87 (LC 11) Max Uplift 1=-55 (LC 11), 2=-84 (LC 11), 3=-9 (LC 11)
	J55	5 /12	2-05-01	5-00-00	24" o.c	REACTIONS	(lb/size) 2=226/3-08, (min. 1-08), 3=100/ Mechanical, (min. 1-08), 4=56/ Mechanical, (min. 1-08) Max Horiz 2=177 (LC 11) Max Uplift 2=-167 (LC 11), 3=-145 (LC 11), 4=-2 (LC 11)
	J55S	5 /12	2-05-01	5-00-00	24" o.c	REACTIONS	(lb/size) 1=163/3-08, (min. 1-08), 2=104/ Mechanical, (min. 1-08), 3=59/ Mechanical, (min. 1-08) Max Horiz 1=146 (LC 11) Max Uplift 1=-94 (LC 11), 2=-150 (LC 11), 3=-7 (LC 11)
	J75	5 /12	3-03-01	7-00-00	24" o.c	REACTIONS	(lb/size) 2=290/4-08, (min. 1-08), 3=146/ Mechanical, (min. 1-08), 4=78/ Mechanical, (min. 1-08) Max Horiz 2=237 (LC 11) Max Uplift 2=-203 (LC 11), 3=-213 (LC 11)
	J75S	5 /12	3-03-01	7-00-00	24" o.c	REACTIONS	(lb/size) 1=229/3-08, (min. 1-08), 2=149/ Mechanical, (min. 1-08), 3=80/ Mechanical, (min. 1-08) Max Horiz 1=206 (LC 11) Max Uplift 1=-132 (LC 11), 2=-217 (LC 11), 3=-3 (LC 11)
	J95	5 /12	4-01-01	9-00-00	24" o.c	REACTIONS	(lb/size) 2=352/3-08, (min. 1-08), 5=288/ Mechanical, (min. 1-08) Max Horiz 2=293 (LC 11) Max Uplift 2=-238 (LC 11), 5=-275 (LC 11)
	JGR03 E	3.54 /12	1-06-10	4-01-07	24" o.c	REACTIONS	(lb/size) 2=167/7-12, (min. 1-08), 3=41/ Mechanical, (min. 1-08), 4=-1/ Mechanical, (min. 1-08) Max Horiz 2=132 (LC 3) Max Uplift 2=-191 (LC 3), 3=-50 (LC 7), 4=-21 (LC 20) Max Grav 2=271 (LC 17), 3=58 (LC 17), 4=73 (LC 11)
	JGR95	3.54 /12	4-00-10	12-07-04	24" o.c	REACTIONS	(lb/size) 2=527/4-09, (min. 1-08), 5=681/ Mechanical, (min. 1-08) Max Horiz 2=308 (LC 3) Max Uplift 2=-575 (LC 3), 5=-674 (LC 7) Max Grav 2=536 (LC 20), 5=681 (LC 1)
	T09	5 /12	9-08-09	45-00-00	24" o.c	REACTIONS	(lb/size) 2=1541/3-08, (min. 1-13), 10=1541/3-08, (min. 1-13) Max Horiz 2=304 (LC 11) Max Uplift 2=-1003 (LC 11), 10=-1003 (LC 12) Max Grav 2=1767 (LC 2), 10=1767 (LC 2)
	T09A	5 /12	9-08-09	45-00-00	24" o.c	REACTIONS	(lb/size) 2=1542/3-08, (min. 1-13), 10=1484/3-08, (min. 1-12) Max Horiz 2=319 (LC 15) Max Uplift 2=-1003 (LC 11), 10=-938 (LC 12) Max Grav 2=1767 (LC 2), 10=1720 (LC 2)

PROFILE	LABEL	PITCH	HEIGHT	SPAN	SPACING	REACTIONS	
	T10E	5 /12	5-04-02	24-00-08	24" o.c	REACTIONS	(lb/size) 2=849/3-00, (min. 1-08), 6=849/3-00, (min. 1-08)
							Max Horiz 2=-170 (LC 16)
							Max Uplift 2=-847 (LC 7), 6=-847 (LC 8)
	V01	5 /12	2-09-14	13-06-12	24" o.c	REACTIONS	All bearings 13-06-12.
						(lb) - Max Horiz	1=82 (LC 11)
						Max Uplift	All uplift 100 (lb) or less at joint(s) 1, 5, 7 except 6=-247 (LC 12), 8=-248 (LC 11)
	V02	5 /12	1-11-14	9-06-12	24" o.c	REACTIONS	(lb/size) 1=56/9-06-12, (min. 1-08), 3=56/9-06-12, (min. 1-08), 4=519/9-06-12, (min. 1-08)
						Max Horiz	1=56 (LC 11)
						Max Uplift	1=-54 (LC 11), 3=-64 (LC 12), 4=-293 (LC 11)
	V03	5 /12	1-01-14	5-06-12	24" o.c	REACTIONS	(lb/size) 1=180/5-05-08, (min. 1-08), 3=180/5-05-08, (min. 1-08)
						Max Horiz	1=-31 (LC 12)
						Max Uplift	1=-115 (LC 11), 3=-115 (LC 12)
	V11	5 /12	4-06-07	21-09-04	24" o.c	REACTIONS	All bearings 21-08-00.
						(lb) - Max Horiz	1=-134 (LC 16)
						Max Uplift	All uplift 100 (lb) or less at joint(s) 1, 7, 10 except 8=-217 (LC 12), 9=-277 (LC 12), 11=-277 (LC 11), 12=-219 (LC 11)
	V12	5 /12	3-08-07	17-09-04	24" o.c	REACTIONS	All bearings 17-08-00.
						(lb) - Max Horiz	1=-109 (LC 12)
						Max Uplift	All uplift 100 (lb) or less at joint(s) 1 except 6=-331 (LC 12), 7=-201 (LC 12), 8=-332 (LC 11)
	V13	5 /12	2-10-07	13-09-04	24" o.c	REACTIONS	All bearings 13-08-00.
						(lb) - Max Horiz	1=-83 (LC 16)
						Max Uplift	All uplift 100 (lb) or less at joint(s) 1, 5, 7 except 6=-251 (LC 12), 8=-252 (LC 11)
	V14	5 /12	2-00-07	9-09-04	24" o.c	REACTIONS	(lb/size) 1=57/9-08-00, (min. 1-08), 3=57/9-08-00, (min. 1-08), 4=525/9-08-00, (min. 1-08)
						Max Horiz	1=58 (LC 11)
						Max Uplift	1=-54 (LC 11), 3=-65 (LC 12), 4=-297 (LC 11)
	V15	5 /12	1-02-07	5-09-04	24" o.c	REACTIONS	(lb/size) 1=187/5-08-00, (min. 1-08), 3=187/5-08-00, (min. 1-08)
						Max Horiz	1=32 (LC 11)
						Max Uplift	1=-119 (LC 11), 3=-119 (LC 12)



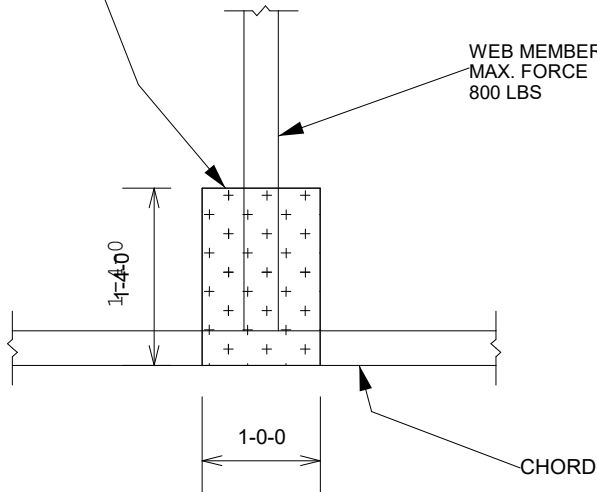
1. ALL MATERIAL IS 2x4
2. THIS DETAIL IS APPLICABLE FOR DESIGNS WITH DOLS. OF 1.15 OR 1.25 AND LUMBER SPECIES SP, DF, HF, OR SPF.
3. DETAIL SHALL BE USED FOR CONDITIONS OF A MISSING OR LOOSE CONNECTOR PLATE ONLY.
4. CHORD MATERIAL IS CONTINUOUS THROUGH JOINT, THERE IS NO MAXIMUM CHORD FORCE AND NO SPLICE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

EDGE OF WEB NOT TO EXTEND BEYOND CORNER OF GUSSET

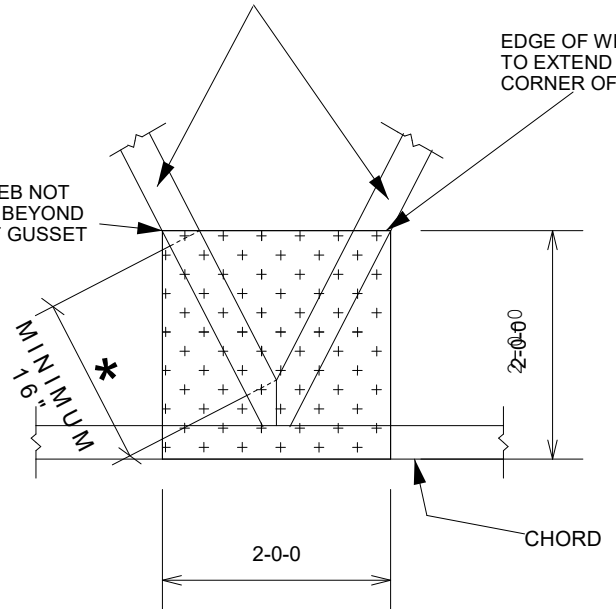
WEB MEMBER
MAX. FORCE
800 LBS



WEB MEMBER
MAX. FORCE
1200 LBS

EDGE OF WEB NOT TO EXTEND BEYOND CORNER OF GUSSET

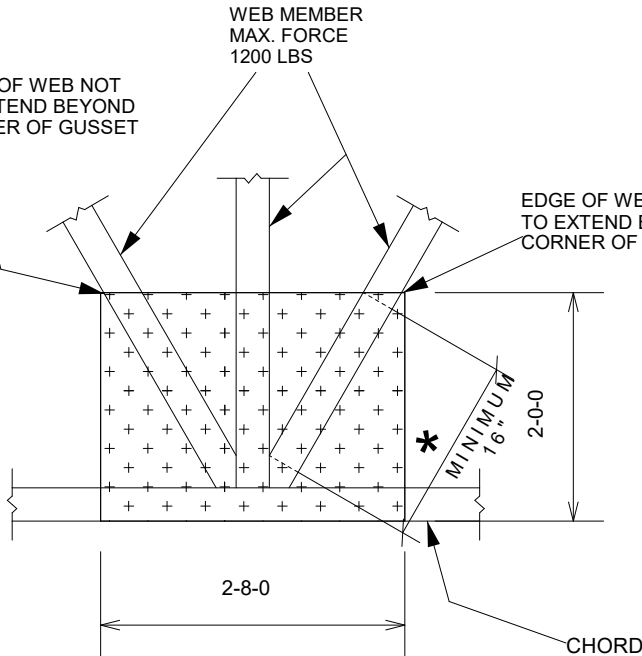
EDGE OF WEB NOT TO EXTEND BEYOND CORNER OF GUSSET



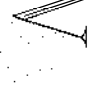
EDGE OF WEB NOT TO EXTEND BEYOND CORNER OF GUSSET

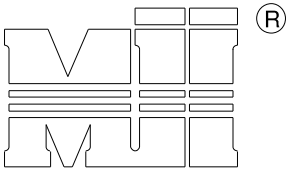
WEB MEMBER
MAX. FORCE
1200 LBS

EDGE OF WEB NOT TO EXTEND BEYOND CORNER OF GUSSET



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



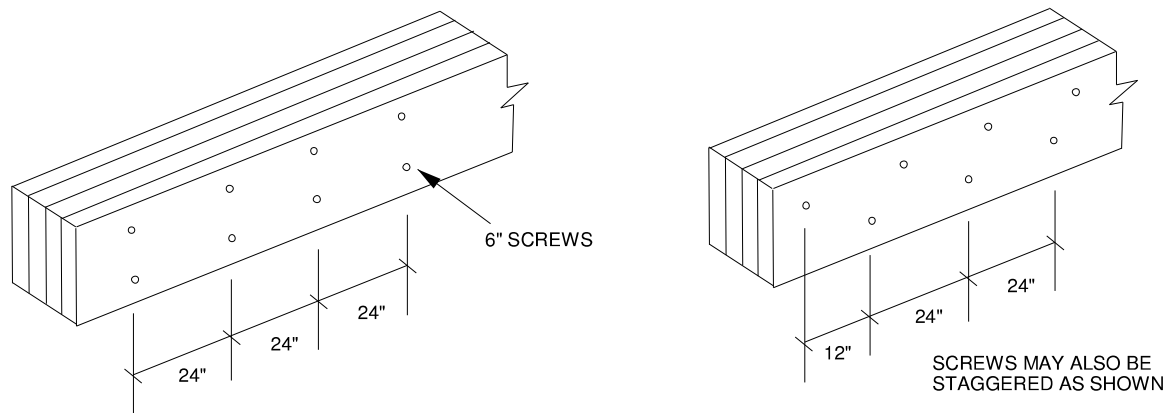


MiTek USA, Inc.

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.

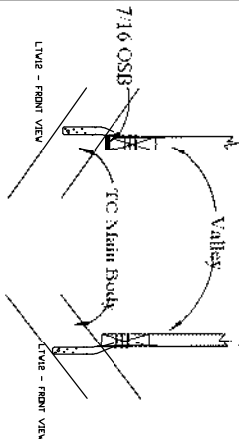
These connections are intended to provide clamping force to aid in allowing the four ply assembly to act as a unit and are not included in the calculation of ply to ply load transfer.



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.

NON-BEVELED
BOTTEM CHORD
NO-SHEATHING



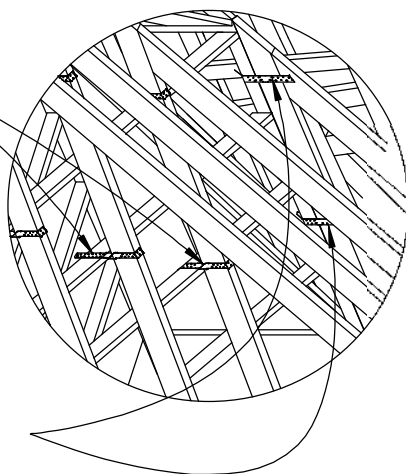
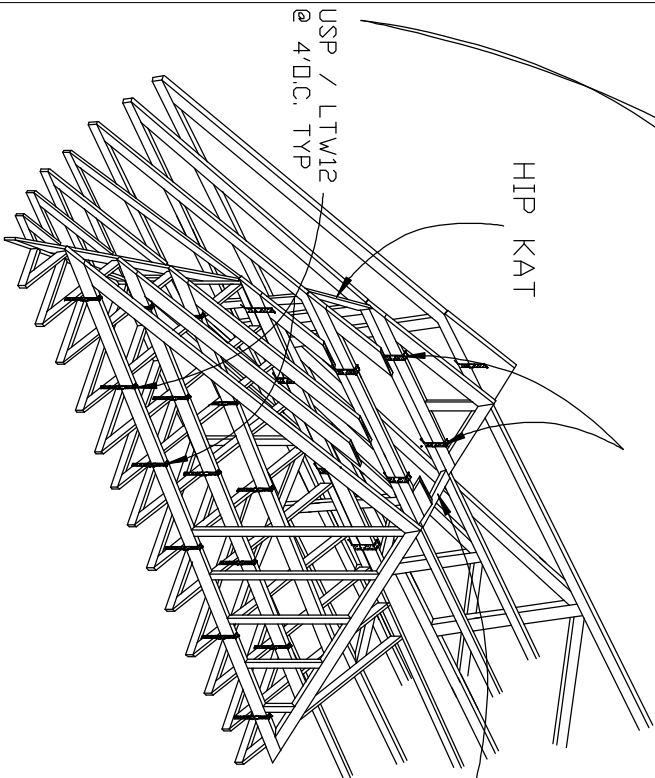
VALLEY CONNECTIONS

(ELEMENTS NOT SHOWN FOR CLARITY)

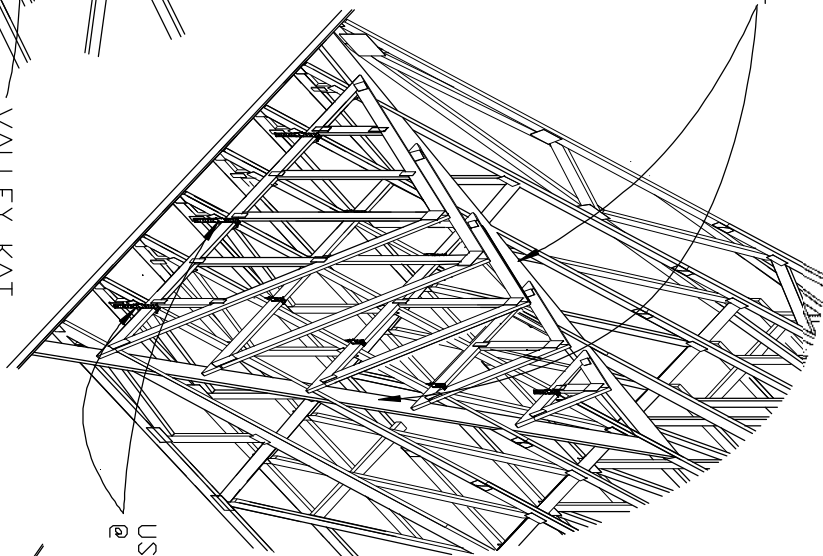
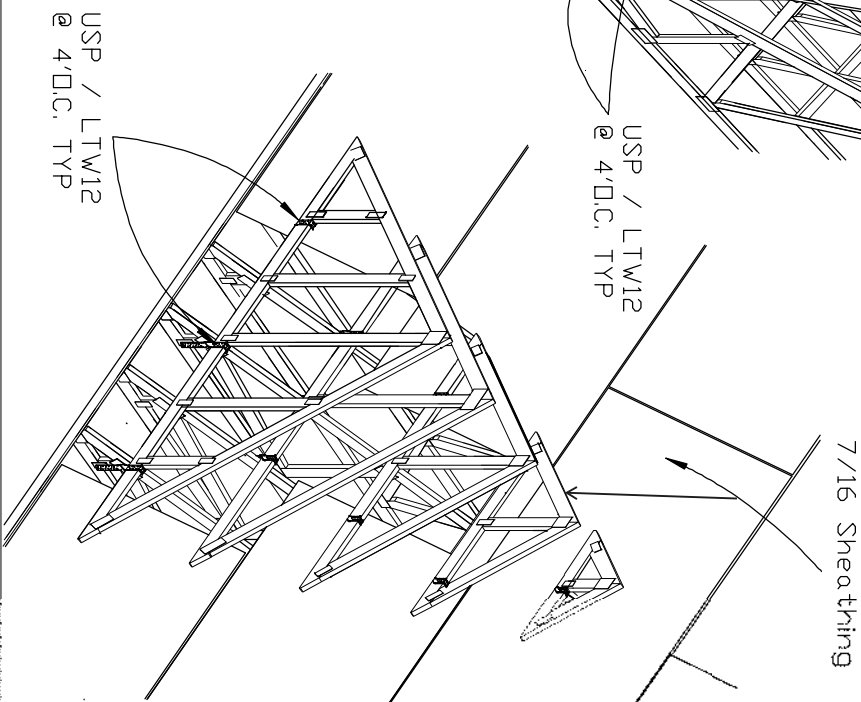
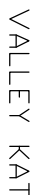
VALLEY KAT

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'D.C. TYP

HIP KAT

USP / LTW12
@ 4'D.C. TYP

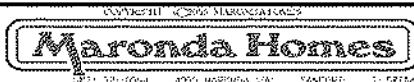
7/16 Sheathing

TRUSS DETAILS

VALLEY CONNECTIONS

DRAWN BY: J.FESSIA GARAGE:

RELEASE DATE: 12/7/09



REVISIONS

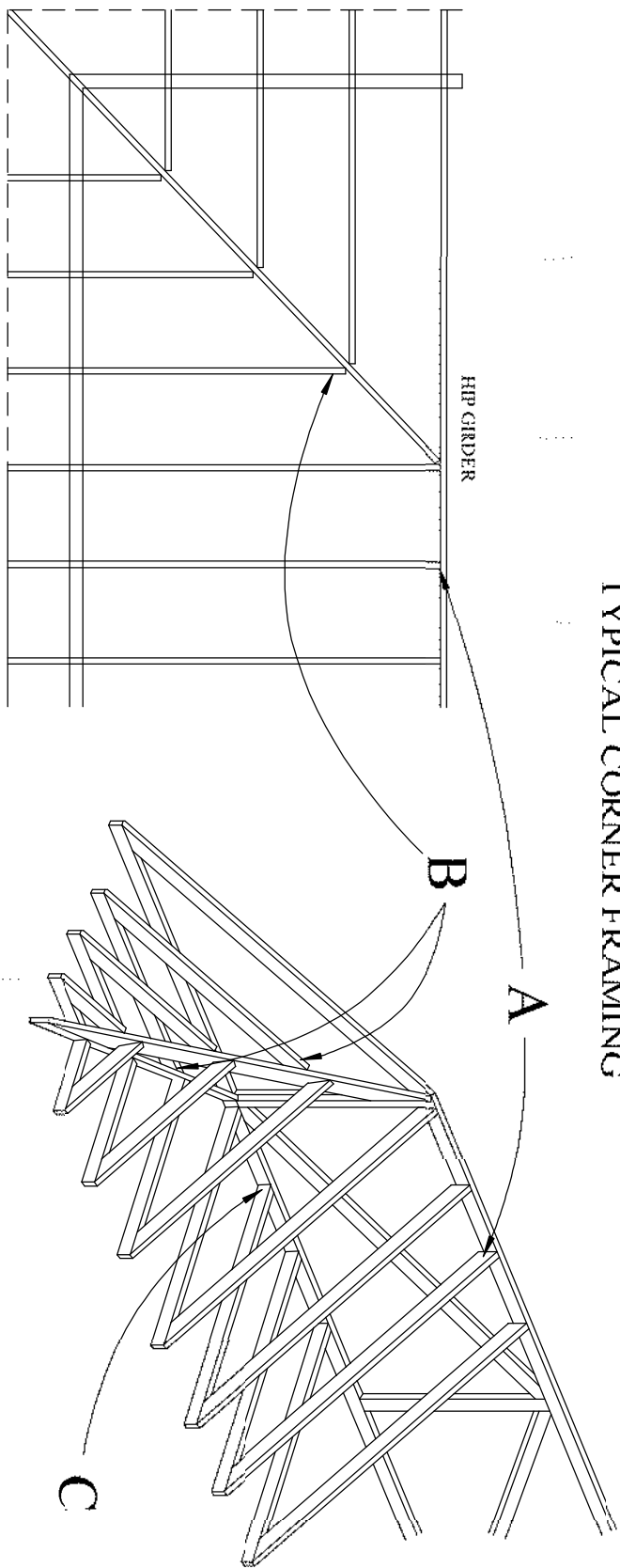
SHEET:

VGI

GREEN PINE CO. INC. - KENNESAW

TOE-NAILED CONNECTIONS AT BEARING LOCATIONS

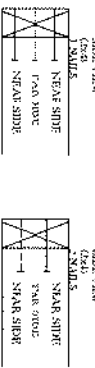
TYPICAL CORNER FRAMING



90 DEGREE ANGLE/SQUARE CUT

Connection at A

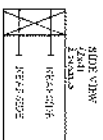
Connection at C



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 U.T. (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

INTERIOR gable end zone

Enclosed building (Cond. I)

PRR-10, TPI-07, ASCE 7-10

Duration of load is 1.60

L = NAIL LENGTH

TRUSS DETAILS

TOE-NAILED CONNECTIONS

DRAWN BY:

GARAGE

RELEASE DATE: 2/9/09

Maronda Homes

1001 201 60th Ave NW, Suite 200, Grand Rapids, MI 49503

SHEET

TN1



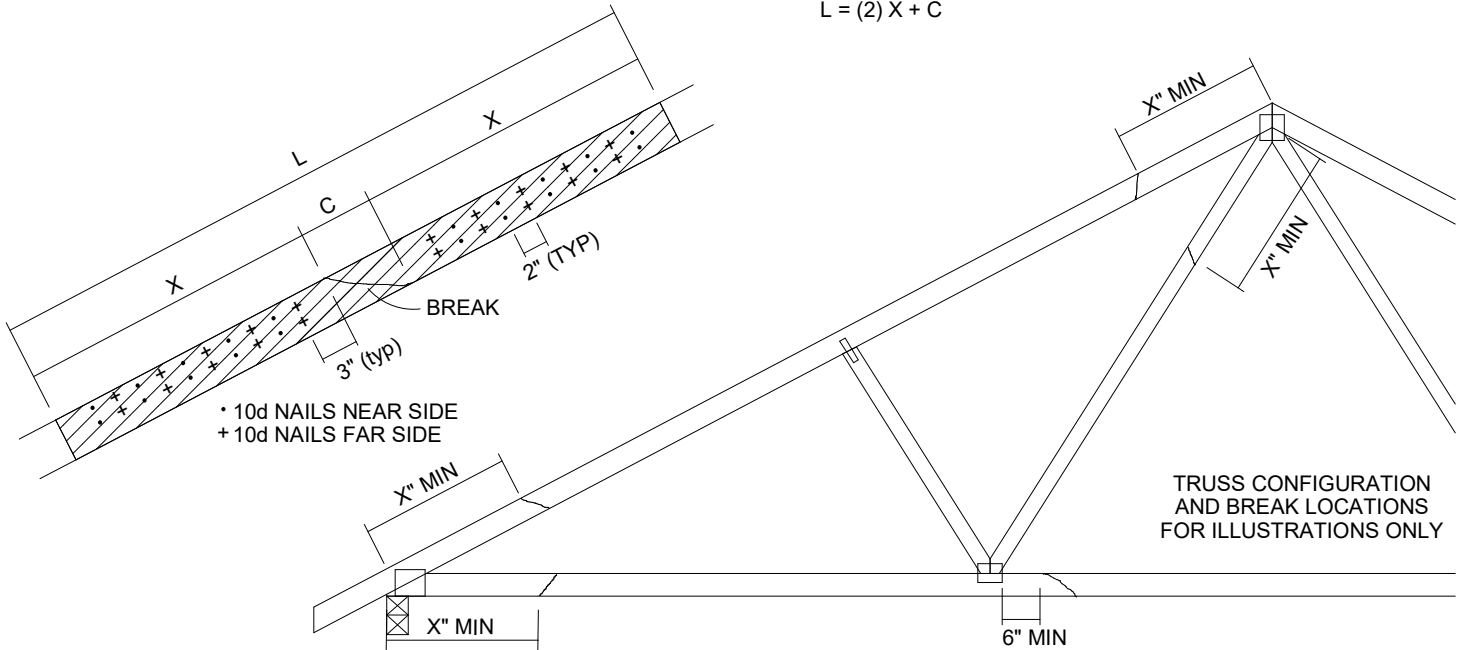
TOTAL NUMBER OF NAILS EACH SIDE OF BREAK *		X INCHES	MAXIMUM FORCE (lbs) 15% LOAD DURATION							
			SP		DF		SPF		HF	
2x4	2x6		2x4	2x6	2x4	2x6	2x4	2x6	2x4	2x6
20	30	24"	1706	2559	1561	2342	1320	1980	1352	2028
26	39	30"	2194	3291	2007	3011	1697	2546	1738	2608
32	48	36"	2681	4022	2454	3681	2074	3111	2125	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 APPLYING 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	Willow J (frame) - Base model
Willow J _	GP01	Flat Girder	1	3	garage portal Job Reference (optional)

ID:m_DHI2SGme1tpzBzGEo6NLz1mmgV1F6gYtdy79qdwGeeDHqRdYoroDa7qKk9YQ2wBPYWnfk

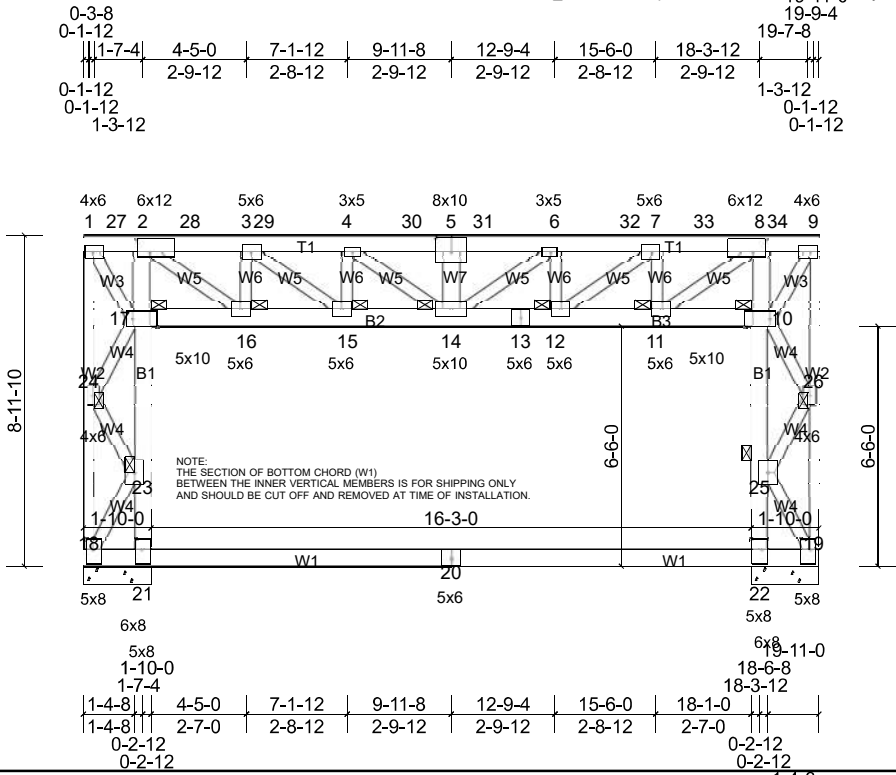


Plate Offsets (X, Y): [2:0-4-8,0-1-12], [5:0-5-0,0-4-8], [8:0-4-8,0-1-12], [10:0-7-8,Edge], [17:0-7-8,Edge], [18:0-3-4,0-2-8], [19:0-3-4,0-2-8], [21:0-3-4,0-2-8], [22:0-3-4,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.71	Vert(LL)	0.20	14	>998	240	MT20 244/190
TCDL	12.0	Lumber DOL	1.25	BC	0.69	Vert(CT)	-0.19	14-15	>999	180	
BCLL	0.0*	Rep Stress Incr	NO	WB	0.69	Horz(CT)	-0.01	19	n/a	n/a	
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							Weight: 775 lb FT = 20%

LUMBER
TOP CHORD 2x6 SP No.1D
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2 *Except* W1,W7:2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 1-18, 9-19
JOINTS 1 Brace at Jt(s): 14, 16, 15, 12, 11, 23, 17, 25, 10

REACTIONS All bearings 1-10-0.
(lb) - Max Horiz 18=293 (LC 41)
Max Uplift All uplift 100 (lb) or less at joint(s) except 18=-3290 (LC 20), 19=-4161 (LC 21), 21=-4491 (LC 21), 22=-2528 (LC 21)
Max Grav All reactions 250 (lb) or less at joint(s) except 18=4253 (LC 2), 19=3725 (LC 1), 21=4587 (LC 2), 22=1886 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 18-24=-1821/1277, 1-24=-1930/2337, 1-27=-1355/1699, 2-27=-1355/1699, 2-28=-5989/4733, 3-28=-5989/4474, 3-29=-11243/8811, 4-29=-11243/8770, 4-30=-13524/11088, 5-30=-13524/10636, 5-31=-13524/10683, 6-31=-13524/11072, 6-32=-9921/7896, 7-32=-9921/8317, 7-33=-3724/2978, 8-33=-3724/3353, 8-34=-1773/2141, 9-34=-1816/2141, 19-26=-1490/1864, 9-26=-2314/2867
BOT CHORD 21-23=-4586/4444, 17-23=-8935/7243, 2-17=-8440/6346, 22-25=-1886/2481, 10-25=-6423/6173, 8-10=-5321/4974, 16-17=-3120/3050, 15-16=-3593/4488, 14-15=-7749/9679, 13-14=-7223/8356, 12-13=-6847/8356, 11-12=-2289/2160, 10-11=-3695/3418
WEBS 18-21=-1435/1611, 20-21=-1406/1565, 20-22=-1406/1565, 19-22=-1457/1615, 5-14=-4384/3779, 3-16=-5618/4575, 4-15=-3723/3349, 6-12=-4403/4017, 7-11=-4309/3826, 18-23=-2997/2378, 23-24=-1932/2440, 17-24=-2499/1976, 1-17=-2873/2294, 2-16=-7352/9176, 3-15=-5835/6624, 4-14=-3474/2804, 6-14=-4061/4429, 7-12=-6867/7696, 8-11=-6259/7197, 19-25=-3005/2714, 25-26=-2214/2436, 10-26=-2498/2262, 9-10=-3622/3122

NOTES
1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected 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=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone; Lumber DOL=1.60 plate grip DOL=1.60
4) Provide adequate drainage to prevent water ponding.
5) All plates are 5x6 MT20 unless otherwise indicated.
6) * This truss has been designed for a 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 3289 lb uplift at joint 18, 4160 lb uplift at joint 19, 4490 lb uplift at joint 21 and 2527 lb uplift at joint 22.
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 0-0-0 to 19-11-0 for 200.8 pif.

Job	Truss	Truss Type	Qty	Ply	Willow J (frame) - Base model
Willow J _	GP01	Flat Girder	1	3	garage portal
					Job Reference (optional)

- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1707 lb down and 973 lb up at 0-10-12, 1671 lb down and 975 lb up at 2-10-12, 1678 lb down and 979 lb up at 4-10-12, 1674 lb down and 982 lb up at 6-10-12, 1477 lb down and 985 lb up at 8-10-12, 4142 lb down and 3852 lb up at 10-10-0, 226 lb down and 162 lb up at 12-9-11, 162 lb down and 126 lb up at 14-9-11, 101 lb down and 94 lb up at 16-9-11, and 99 lb down and 134 lb up at 18-9-11, and 495 lb down and 545 lb up at 19-9-4 on top 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: 1-9=-64, 10-17=-20
- Concentrated Loads (lb)
- Vert: 9=-489, 4=-1477, 6=-226, 27=-1485, 28=-1477, 29=-1477, 30=-1477, 31=-4142, 32=-162, 33=-101, 34=-99

Job	Truss	Truss Type	Qty	Ply	Willow J (frame) - Base model
Willow J _	H02	Hip	1	1	Job Reference (optional)

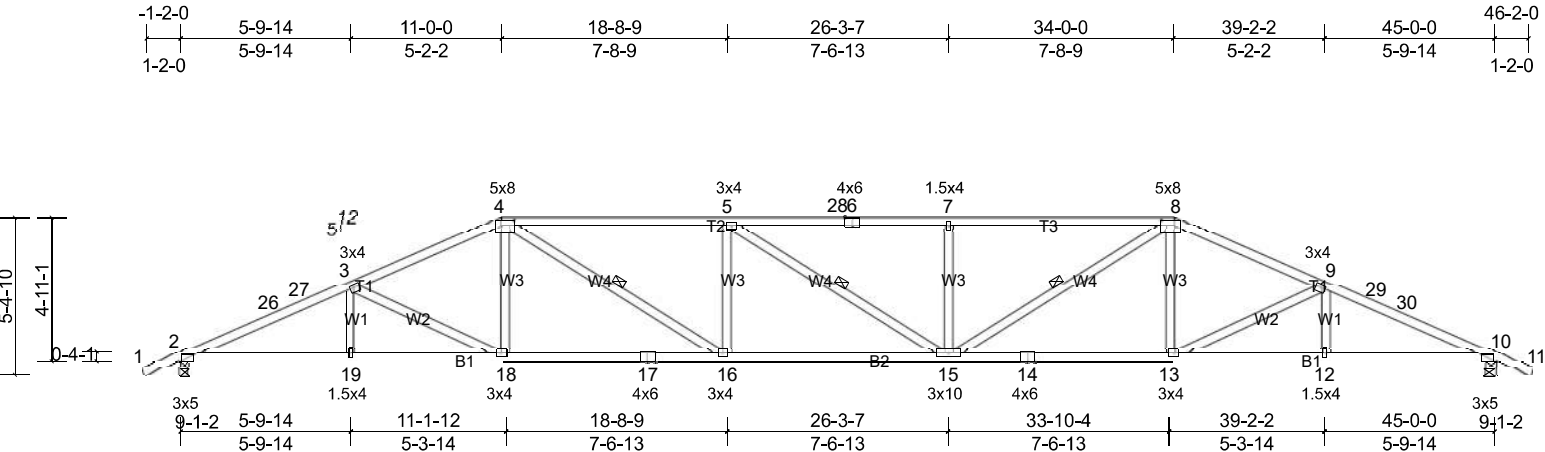


Plate Offsets (X, Y): [2:0-0-6,Edge], [4:0-5-4,0-2-4], [6:0-3-0,Edge], [8:0-5-4,0-2-4], [10:0-0-6,Edge]

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	0.81	Vert(LL)	0.75	15-16	>715	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.85	Vert(CT)	-0.80	15-16	>673	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.22	10	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-AS							Weight: 227 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 4-16, 5-15, 8-15

REACTIONS (lb/size) 2=1541/0-3-8, (min. 0-1-13), 10=1541/0-4-8, (min. 0-1-13)
Max Horiz 2=157 (LC 11)
Max Uplift 2=-1026 (LC 11), 10=-1026 (LC 12)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-26=-3378/2126, 26-27=-3333/2127, 3-27=-3314/2135, 3-4=-2965/2009, 4-5=-3566/2571, 5-28=-3565/2570, 6-28=-3565/2570, 6-7=-3565/2570, 7-8=-3565/2570, 8-9=-2965/2009, 9-29=-3314/2136, 29-30=-3333/2128, 10-30=-3378/2127
BOT CHORD 2-19=-1997/3078, 18-19=-1997/3078, 17-18=-1672/2707, 16-17=-1672/2707, 15-16=-2336/3566, 14-15=-1643/2707, 13-14=-1643/2707, 12-13=-1848/3078, 10-12=-1848/3078
WEBS 3-18=-445/436, 4-18=-106/325, 4-16=-798/1092, 5-16=-409/505, 5-15=-321/323, 7-15=-368/498, 8-15=-797/1091, 8-13=-107/325, 9-13=-445/437

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-2-11 to 4-3-5, Zone1 4-3-5 to 11-0-0, Zone2 11-0-0 to 18-8-9, Zone1 18-8-9 to 34-0-0, Zone2 34-0-0 to 41-9-5, Zone1 41-9-5 to 46-2-11 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1026 lb uplift at joint 2 and 1026 lb uplift at joint 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	Willow J (frame) - Base model
Willow J _	H02A	Hip	1	1	Job Reference (optional)

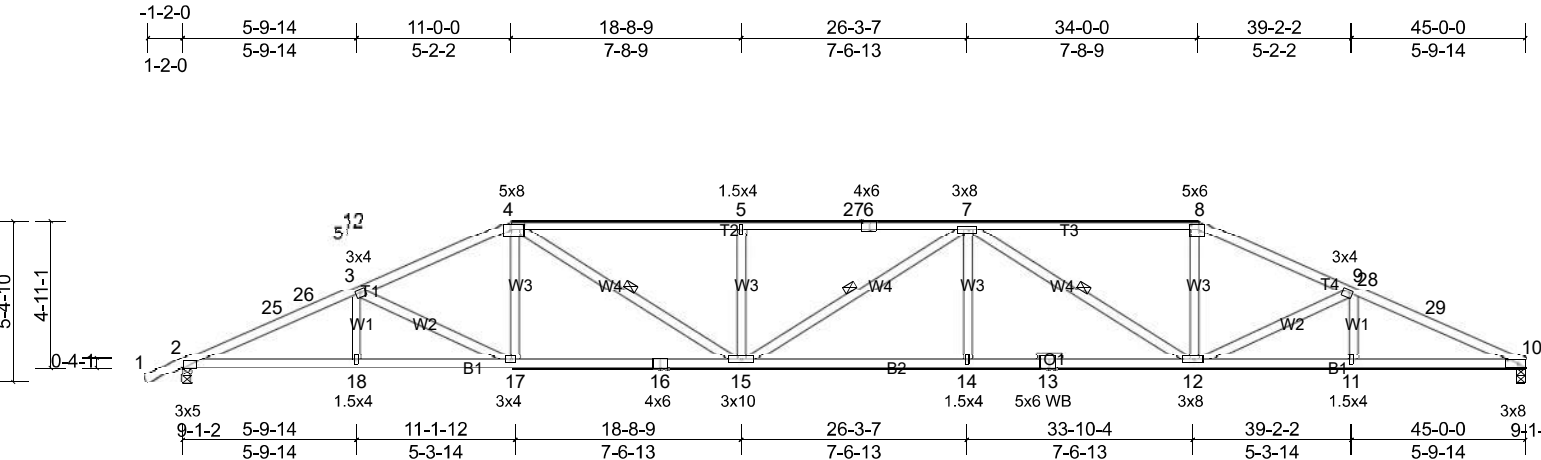


Plate Offsets (X, Y): [2:0-0-6,Edge], [4:0-5-4,0-2-4], [6:0-3-0,Edge], [8:0-3-0,0-2-4], [10:0-4-2,0-1-8]

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	0.81	Vert(LL)	0.76	14-15	>713	240	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.85	Vert(CT)	-0.81	14-15	>670	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.23	10	n/a	n/a	
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-AS							Weight: 227 lb FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 4-15, 7-15, 7-12
OTHERS 2x4 SP No.2	

REACTIONS (lb/size) 2=1542/0-3-8, (min. 0-1-13), 10=1484/0-3-8, (min. 0-1-12)
Max Horiz 2=172 (LC 11)
Max Uplift 2=-1026 (LC 11), 10=-961 (LC 12)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-25=-3380/2127, 25-26=-3335/2128, 3-26=-3316/2136, 3-4=-2967/2010, 4-5=-3569/2573, 5-27=-3569/2573, 6-27=-3569/2573, 6-7=-3569/2573, 7-8=-2728/1929, 8-9=-2971/2018, 9-28=-3302/2157, 28-29=-3348/2156, 10-29=-3384/2148
BOT CHORD 2-18=-2014/3080, 17-18=-2014/3080, 16-17=-1693/2708, 15-16=-1693/2708, 14-15=-2349/3570, 13-14=-2349/3570, 12-13=-2349/3570, 11-12=-1913/3094, 10-11=-1913/3094
WEBS 3-17=-445/435, 4-17=-106/325, 4-15=-799/1093, 5-15=-368/498, 7-15=-320/326, 7-12=-1076/787, 8-12=-430/836, 9-12=-441/453

- NOTES
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-2-11 to 4-3-5, Zone1 4-3-5 to 11-0-0, Zone2 11-0-0 to 18-8-9, Zone1 18-8-9 to 34-0-0, Zone2 34-0-0 to 41-9-5, Zone1 41-9-5 to 45-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 961 lb uplift at joint 10 and 1026 lb uplift at joint 2.
 - 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	Willow J (frame) - Base model
Willow J _	H03	Hip	1	1	Job Reference (optional)

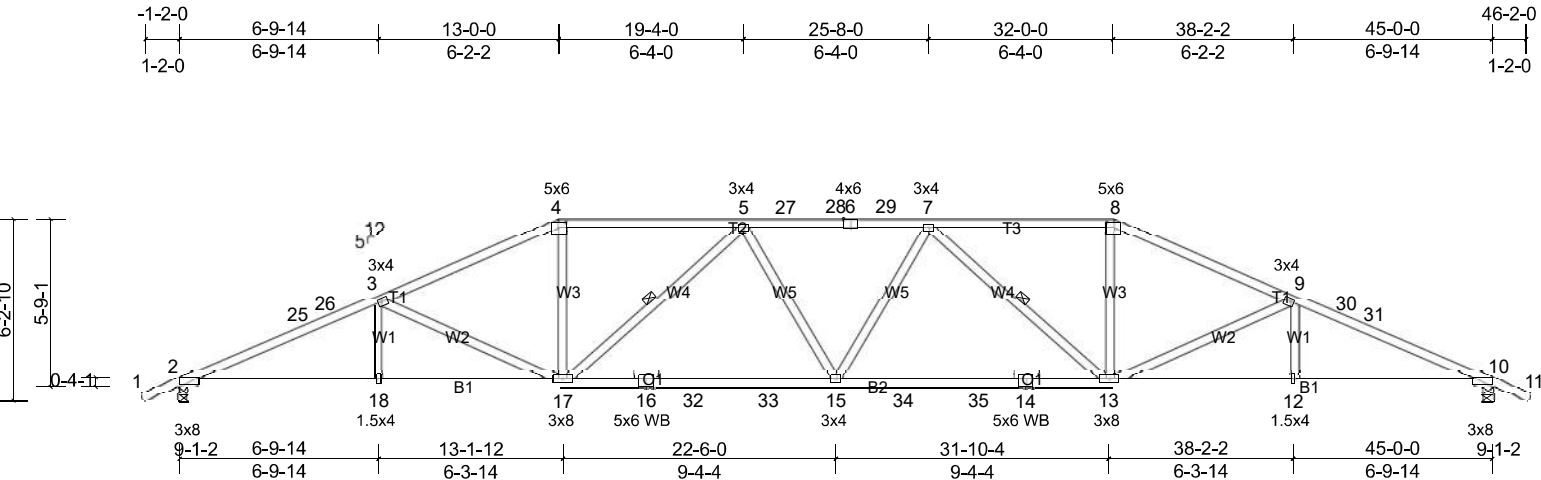


Plate Offsets (X, Y): [2:0-8-0,0-0-10], [4:0-3-0,0-2-4], [6:0-3-0,Edge], [8:0-3-0,0-2-4], [10:0-8-0,0-0-10]

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	0.63	Vert(LL)	0.53	15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.85	Vert(CT)	-0.81	15-17	>671	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.19	10	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-AS							Weight: 228 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x4 SP No.1D	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SP No.2	WEBS	1 Row at midpt
OTHERS	2x4 SP No.2		5-17, 7-13

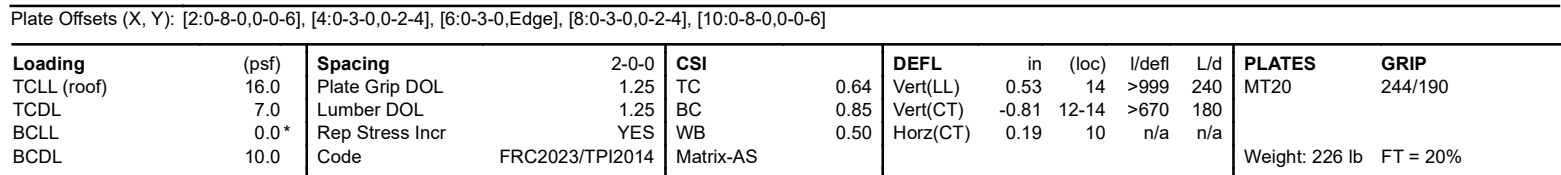
REACTIONS (lb/size) 2=1541/0-3-8, (min. 0-1-12), 10=1541/0-4-8, (min. 0-1-12)
Max Horiz 2=182 (LC 11)
Max Uplift 2=-1023 (LC 11), 10=-1023 (LC 12)
Max Grav 2=1728 (LC 2), 10=1728 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-25=-3771/2091, 25-26=-3727/2094, 3-26=-3713/2102, 3-4=-3203/1829, 4-5=-2938/1753, 5-27=-3559/2100, 27-28=-3559/2100, 6-28=-3559/2100, 6-29=-3559/2100, 7-29=-3559/2100, 7-8=-2938/1753, 8-9=-3203/1829, 9-30=-3713/2103, 30-31=-3727/2095, 10-31=-3771/2092
BOT CHORD 2-18=-1980/3454, 17-18=-1980/3454, 16-17=-1865/3443, 16-32=-1865/3443, 32-33=-1865/3443, 15-33=-1865/3443, 15-34=-1856/3443, 34-35=-1856/3443, 14-35=-1856/3443, 13-14=-1798/3454, 10-12=-1798/3454
WEBS 3-17=-598/571, 4-17=-389/990, 5-17=-749/542, 5-15=-129/381, 7-15=-129/381, 7-13=-749/542, 8-13=-389/990, 9-13=-598/572

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-2-11 to 4-3-5, Zone1 4-3-5 to 13-0-0, Zone2 13-0-0 to 20-9-5, Zone1 20-9-5 to 32-0-0, Zone2 32-0-0 to 39-9-5, Zone1 39-9-5 to 46-2-11 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1023 lb uplift at joint 2 and 1023 lb uplift at joint 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

Maronda Homes, Sanford, Edwin Rios Run: 8.81 S Aug 19 2024 Print: 8.810 S Aug 19 2024 MiTek Industries, Inc. Fri Oct 04 14:04:03 Page: 1
ID:s1Rz97gOP | KaRK5CUXQezFkhj-00QJNEHTBnL3PuyPS7uNnOzZuqYmBhIT207KAYWnfg



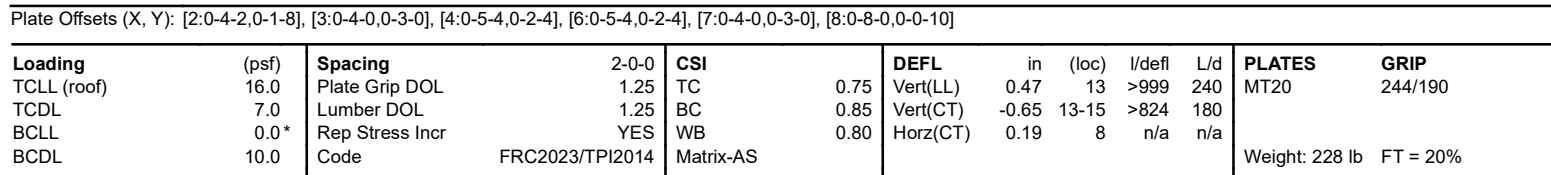
REACTIONS (lb/size) 2=1542/0-3-8, (min. 0-1-12), 10=1484/0-3-8, (min. 0-1-11)
 Max Horiz 2=198 (LC 15)
 Max Uplift 2=-1023 (LC 11), 10=-958 (LC 12)
 Max Grav 2=1728 (LC 2), 10=1681 (LC 2)

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-2-11 to 4-3-5, Zone1 4-3-5 to 13-0-0, Zone2 13-0-0 to 20-9-5, Zone1 20-9-5 to 32-0-0, Zone2 32-0-0 to 39-9-5, Zone1 39-9-5 to 45-0-0 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 958 lb uplift at joint 10 and 1023 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

Maronda Homes, Sanford, Edwin Rios Run: 8.81 S Aug 19 2024 Print: 8.810 S Aug 19 2024 MiTek Industries, Inc. Fri Oct 04 14:04:03 Page: 1
ID:LL5TDQ79ayEic5yWds1lrLzFkY6-00QJNEhTBNL3PuyPS7uNnOzX9qvYm6?IT207KAYWnfg



REACTIONS	(lb/size)	2=1541/0-3-8, (min. 0-1-12), 8=1541/0-4-8, (min. 0-1-12)
	Max Horiz	2=208 (LC 11)
	Max Uplift	2=-1020 (LC 11), 8=-1020 (LC 12)
	Max Grav	2=1732 (LC 2), 8=1732 (LC 2)
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-23=-3724/2030, 23-24=-3682/2031, 3-24=-3638/2043, 3-4=-3027/1712, 4-5=-3101/1851, 5-6=-3101/1851, 6-7=-3027/1712, 7-25=-3638/2044, 25-26=-3682/2032, 8-26=-3724/2031	
BOT CHORD	2-16=-1933/3407, 15-16=-1935/3399, 14-15=-1342/2756, 14-27=-1342/2756, 13-27=-1342/2756, 13-28=-1258/2756, 12-28=-1258/2756, 11-12=-1258/2756, 10-11=-1745/3399, 8-10=-1743/3407	
WEBS	3-16=0/304, 3-15=-729/660, 4-15=-189/603, 4-13=-438/552, 5-13=-381/516, 6-13=-438/552, 6-11=-189/603, 7-10=0/304, 7-11=-729/660	

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-2-11 to 4-3-5, Zone1 4-3-5 to 15-0-0, Zone1 15-0-0 to 22-6-0, Zone1 22-6-0 to 30-0-0, Zone2 30-0-0 to 37-9-5, Zone1 37-9-5 to 46-2-11 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 1020 lb uplift at joint 2 and 1020 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	Willow J (frame) - Base model
Willow J _	H04A	Hip	1	1	Job Reference (optional)

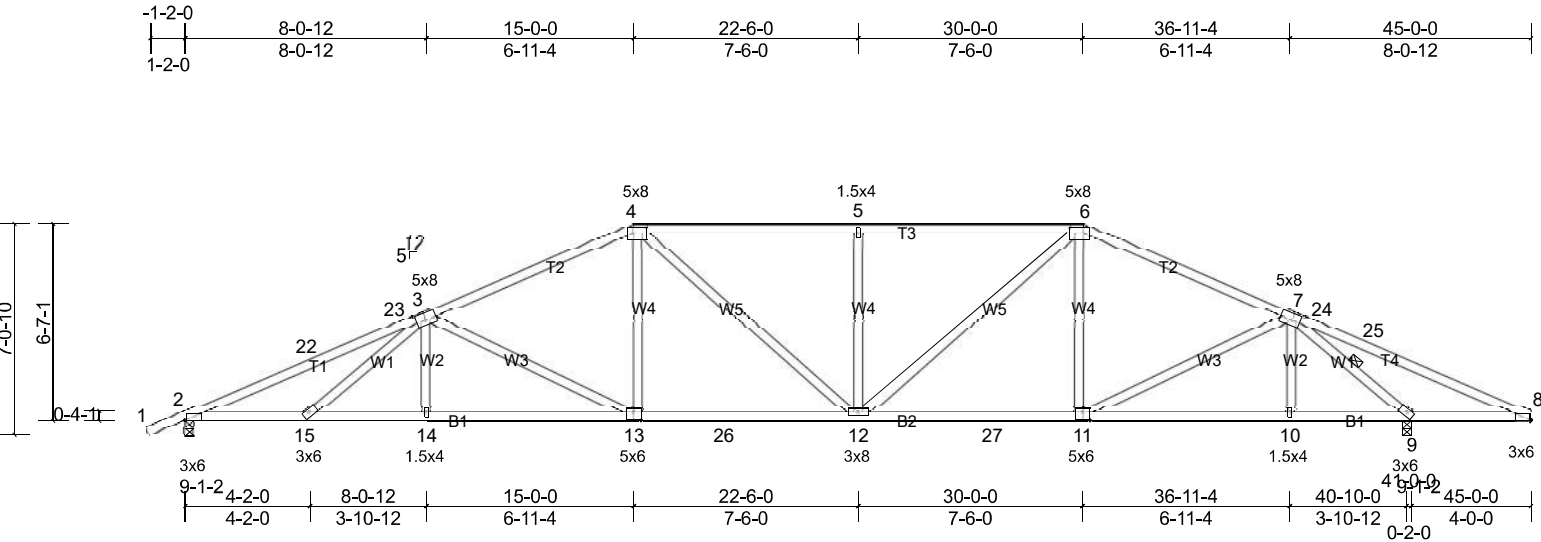


Plate Offsets (X, Y): [2:0-0-6,Edge], [3:0-4-0,0-3-0], [4:0-5-4,0-2-4], [6:0-5-4,0-2-4], [7:0-4-0,0-3-0], [8:0-0-6,Edge], [11:0-3-0,0-3-4], [13:0-3-0,0-3-4]

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	0.73	Vert(LL)	0.34	13-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.91	Vert(CT)	-0.50	12-13	>982	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.86	Horz(CT)	0.15	9	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-AS							Weight: 241 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SP No.2	WEBS	1 Row at midpt 7-9

REACTIONS (lb/size) 2=1398/0-3-8, (min. 0-1-14), 9=1628/0-3-8, (min. 0-2-3)
Max Horiz 2=223 (LC 11)
Max Uplift 2=-958 (LC 11), 9=-1052 (LC 8)
Max Grav 2=1571 (LC 2), 9=1851 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-22=-3445/1918, 22-23=-3392/1919, 3-23=-3349/1931, 3-4=-2623/1497, 4-5=-2524/1567, 5-6=-2524/1567, 6-7=-2203/1251, 7-24=-498/418, 24-25=-499/407, 8-25=-520/359
BOT CHORD 2-15=-1844/3135, 14-15=-1795/2990, 13-14=-1793/2994, 13-26=-1215/2370, 12-26=-1215/2370, 12-27=-915/1981, 11-27=-915/1981, 10-11=-754/1589, 9-10=-756/1587, 8-9=-332/580
WEBS 3-13=-693/642, 4-13=-194/603, 4-12=-292/328, 5-12=-381/517, 6-12=-530/766, 7-11=-197/489, 7-9=-2502/1573

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-2-11 to 4-3-5, Zone1 4-3-5 to 15-0-0, Zone2 15-0-0 to 22-6-0, Zone1 22-6-0 to 30-0-0, Zone2 30-0-0 to 37-9-5, Zone1 37-9-5 to 45-0-0 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 958 lb uplift at joint 2 and 1052 lb uplift at joint 9.
 - 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	Willow J (frame) - Base model
Willow J _	H05	Hip	1	1	Job Reference (optional)

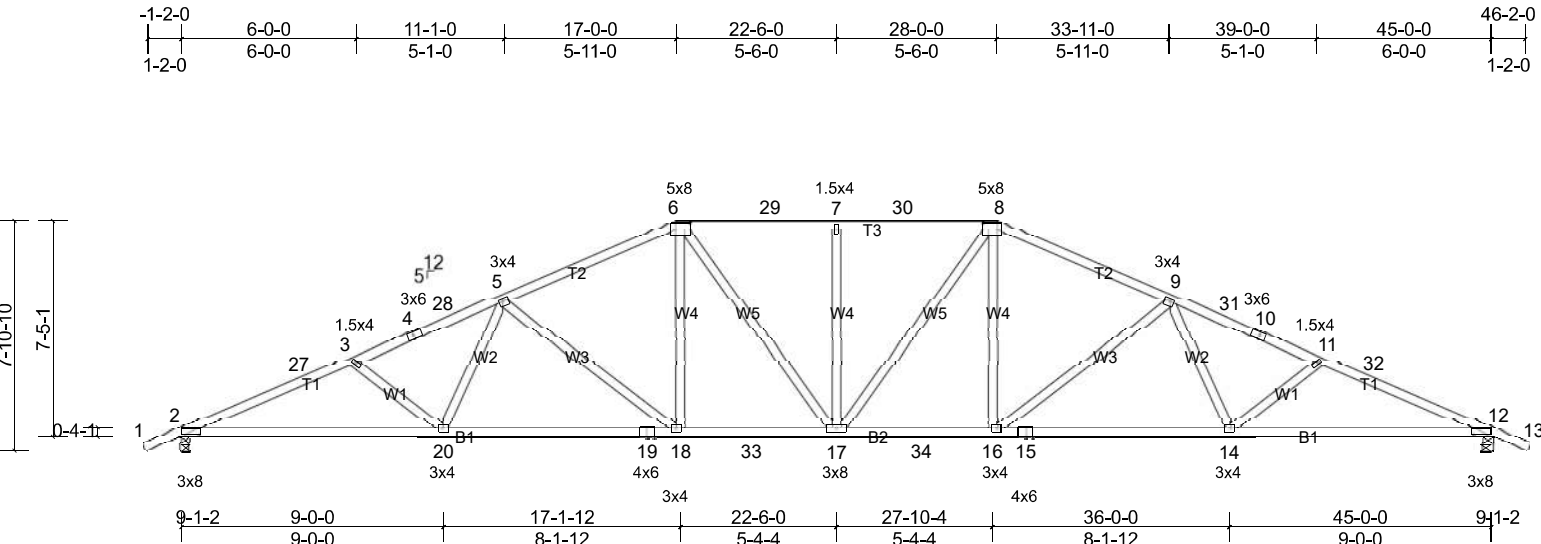


Plate Offsets (X, Y): [2:0-8-0,0-0-10], [6:0-5-12,0-2-8], [8:0-5-12,0-2-8], [12:0-8-0,0-0-10]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.25	TC	0.55	Vert(LL)	0.42	17-18	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.84	Vert(CT)	-0.59	18-20	>920	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.18	12	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-AS							Weight: 245 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.

REACTIONS (lb/size) 2=1541/0-3-8, (min. 0-1-12), 12=1541/0-4-8, (min. 0-1-12)
Max Horiz 2=234 (LC 15)
Max Uplift 2=-1016 (LC 11), 12=-1016 (LC 12)
Max Grav 2=1725 (LC 2), 12=1725 (LC 2)

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

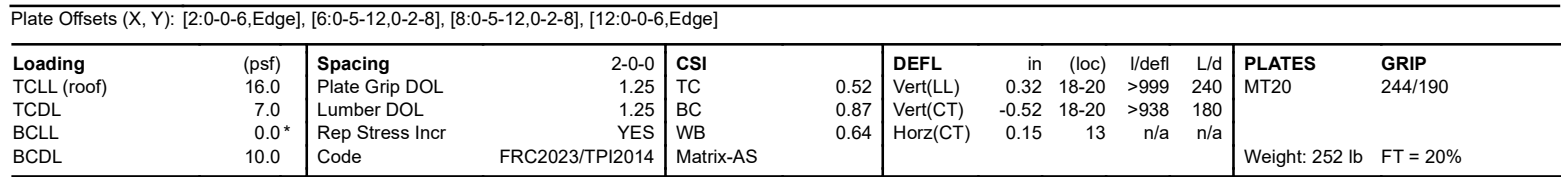
TOP CHORD 2-27=-3746/2116, 3-27=-3701/2125, 3-4=-3561/1948, 4-28=-3523/1949, 5-28=-3492/1958, 5-6=-2798/1660, 6-29=-2705/1692, 7-29=-2705/1692, 7-30=-2705/1692, 8-30=-2705/1692, 8-9=-2798/1660, 9-31=-3492/1958, 10-31=-3523/1949, 10-11=-3561/1948, 11-32=-3701/2125, 12-32=-3746/2117
BOT CHORD 2-20=-2062/3440, 19-20=-1673/3044, 18-19=-1673/3044, 18-33=-1200/2554, 17-33=-1200/2554, 17-34=-1150/2554, 16-34=-1150/2554, 15-16=-1548/3044, 14-15=-1548/3044, 12-14=-1829/3440
WEBS 3-20=-279/407, 5-20=-168/511, 5-18=-636/604, 6-18=-285/655, 6-17=-327/361, 7-17=-271/367, 8-17=-327/361, 8-16=-286/655, 9-16=-636/604, 9-14=-169/511, 11-14=-279/408

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-2-11 to 4-3-5, Zone1 4-3-5 to 17-0-0, Zone2 17-0-0 to 24-9-5, Zone1 24-9-5 to 28-0-0, Zone2 28-0-0 to 35-9-5, Zone1 35-9-5 to 46-2-11 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1016 lb uplift at joint 2 and 1016 lb uplift at joint 12.
- 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

Maronda Homes, Sanford, Edwin Rios Run: 8.81 S Aug 19 2024 Print: 8.810 S Aug 19 2024 MiTek Industries, Inc. Fri Oct 04 14:04:04 Page: 1
ID:0gk_g0I9HD4JdD7vnmWK2VzFkcT-sD_hbah5yhTw11Wc0qPcKbWIWEFTVcmuiihsdWnff



REACTIONS	(lb/size)	2=1396/0-3-8, (min. 0-1-13), 13=1631/0-3-8, (min. 0-2-3)
	Max Horiz	2=249 (LC 15)
	Max Uplift	2=-953 (LC 11), 13=-1044 (LC 12)
	Max Grav	2=1561 (LC 2), 13=1844 (LC 2)
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-28=-3446/1936, 3-28=-3393/1945, 3-4=-3113/1774, 4-29=-3078/1780, 5-29=-3045/1789, 5-6=-2377/1401, 6-30=-2182/1380, 7-30=-2182/1380, 7-31=-2182/1380, 8-31=-2182/1380, 8-9=-2111/1243, 9-32=-1775/998, 10-32=-1804/990, 10-11=-1843/983, 11-33=-499/397, 12-33=-514/391	
BOT CHORD	2-21=-1913/3147, 20-21=-1925/3064, 19-20=-1540/2644, 18-19=-1540/2644, 18-34=-1065/2165, 17-34=-1065/2165, 17-35=-792/1912, 16-35=-792/1912, 15-16=-847/1831, 14-15=-847/1831, 13-14=-432/916, 12-13=-325/549	
WEBS	3-20=-312/402, 5-20=-179/483, 5-18=-622/606, 6-18=-282/668, 7-17=-272/367, 8-17=-409/508, 8-16=-39/275, 11-14=-438/964, 11-13=-2067/1381, 9-14=-415/428	

- ### NOTES
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TC DL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-2-11 to 4-3-5, Zone1 4-3-5 to 17-0-0, Zone2 17-0-0 to 24-9-5, Zone1 24-9-5 to 28-0-0, Zone2 28-0-0 to 35-9-5, Zone1 35-9-5 to 45-0-0 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) * This truss has been designed for a 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 953 lb uplift at joint 2 and 1044 lb uplift at joint 13.
 - 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	Willow J (frame) - Base model
Willow J _	H06	Hip	1	1	Job Reference (optional)

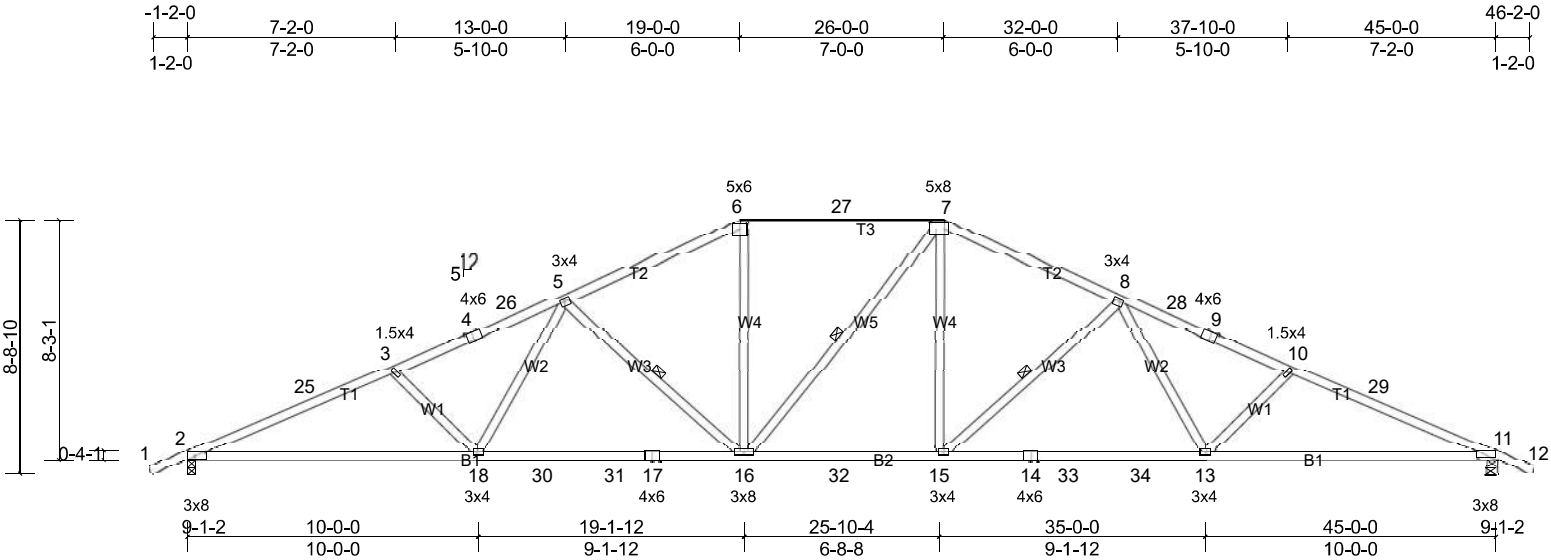


Plate Offsets (X, Y): [2:0-4-2,0-1-8], [4:0-3-0,Edge], [6:0-3-0,0-2-4], [7:0-5-12,0-2-8], [9:0-3-0,Edge], [11:0-8-0,0-0-10]

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	0.68	Vert(LL)	0.41	15-16	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.95	Vert(CT)	-0.70	13-15	>770	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.18	11	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-AS							Weight: 233 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x4 SP No.1D *Except* B2:2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SP No.2	WEBS	1 Row at midpt 5-16, 7-16, 8-15

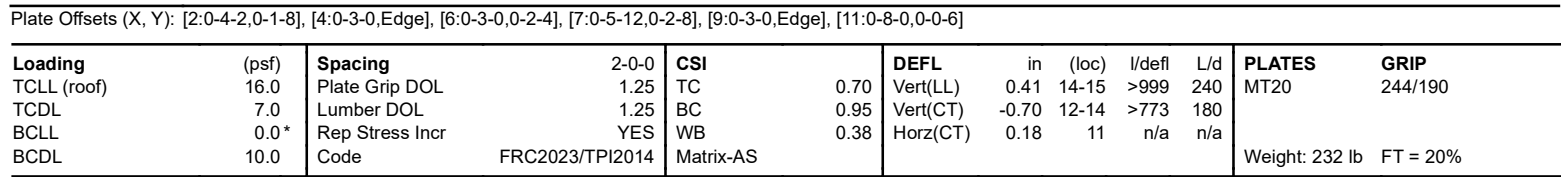
REACTIONS (lb/size) 2=1541/0-3-8, (min. 0-1-12), 11=1541/0-4-8, (min. 0-1-12)
Max Horiz 2=259 (LC 11)
Max Uplift 2=-1012 (LC 11), 11=-1012 (LC 12)
Max Grav 2=1750 (LC 2), 11=1754 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-25=-3751/2054, 3-25=-3707/2065, 3-4=-3561/1908, 4-26=-3514/1916, 5-26=-3500/1925, 5-6=-2653/1586, 6-27=-2422/1542, 7-27=-2422/1542, 7-8=-2663/1586, 8-28=-3510/1925, 9-28=-3524/1916, 9-10=-3571/1908, 10-29=-3716/2066, 11-29=-3760/2055
BOT CHORD 2-18=-2016/3440, 18-30=-1548/2922, 30-31=-1548/2922, 17-31=-1548/2922, 16-17=-1548/2922, 16-32=-1040/2431, 15-32=-1040/2431, 14-15=-1434/2931, 14-33=-1434/2931, 33-34=-1434/2931, 13-34=-1434/2931, 11-13=-1763/3449
WEBS 3-18=-326/480, 5-18=-269/671, 5-16=-686/654, 6-16=-273/757, 7-15=-340/773, 8-15=-687/654, 8-13=-270/670, 10-13=-326/481

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-2-11 to 4-3-5, Zone1 4-3-5 to 19-0-0, Zone3 19-0-0 to 26-0-0, Zone2 26-0-0 to 33-9-5, Zone1 33-9-5 to 46-2-11 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1012 lb uplift at joint 2 and 1012 lb uplift at joint 11.
 - 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

Maronda Homes, Sanford, Edwin Rios Run: 8.81 S Aug 19 2024 Print: 8.810 S Aug 19 2024 MiTek Industries, Inc. Fri Oct 04 14:04:04 Page: 1
ID:la8T0N7juluMmUhmqgeYWX2zFkZO-sD hbah5yhTw11Wc0qPcKbWjIEEEVgquiihsdyWnfn



REACTIONS (lb/size) 2=1542/0-3-8, (min. 0-1-12), 11=1484/0-3-8, (min. 0-1-12)
 Max Horiz 2=275 (LC 15)
 Max Uplift 2=-1012 (LC 11), 11=-946 (LC 12)
 Max Grav 2=1751 (LC 2), 11=1707 (LC 2)

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-2-11 to 4-3-5, Zone1 4-3-5 to 19-0-0, Zone3 19-0-0 to 26-0-0, Zone2 26-0-0 to 33-9-5, Zone1 33-9-5 to 45-0-0 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 1012 lb uplift at joint 2 and 946 lb uplift at joint 11.
- 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	Willow J (frame) - Base model
Willow J _	H07	Hip	1	1	Job Reference (optional)

Maronda Homes, Sanford, Edwin Rios

Run: 8.81 S Aug 19 2024 Print: 8.810 S Aug 19 2024 MiTek Industries, Inc. Fri Oct 04 14:04:05

Page: 1

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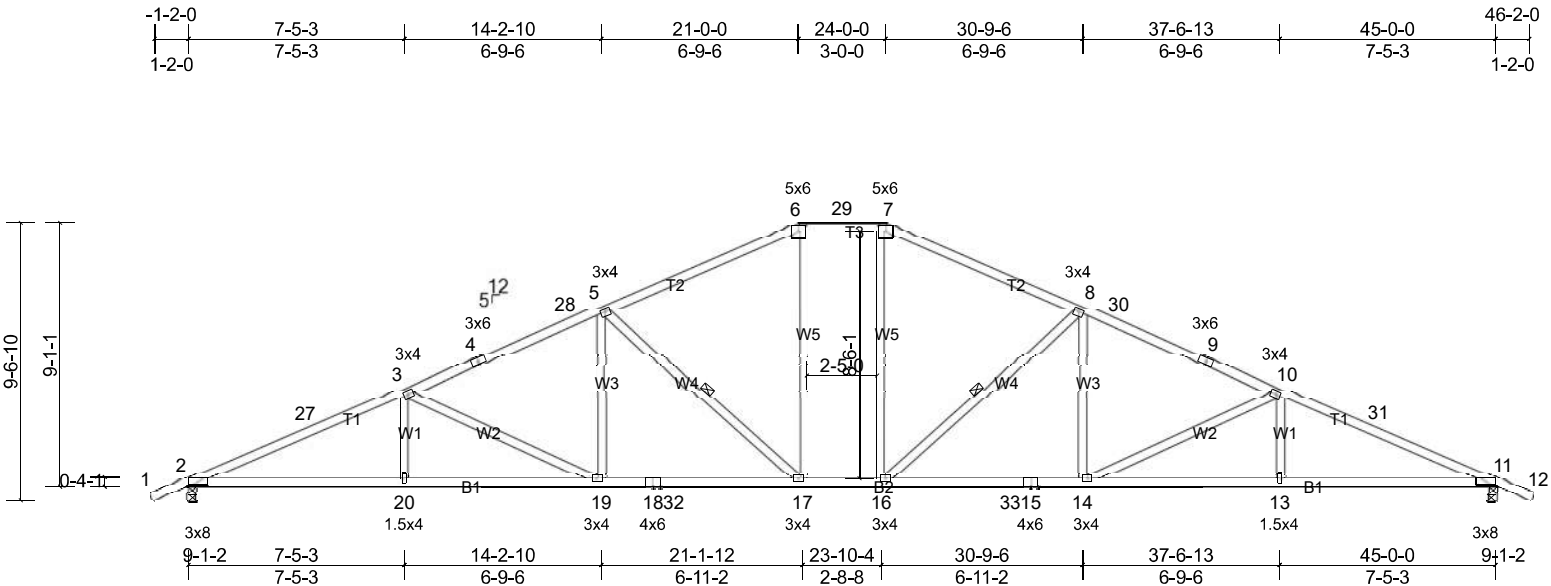


Plate Offsets (X, Y): [2:0-8-0,0-0-10], [6:0-3-0,0-2-4], [7:0-3-0,0-2-4], [11:0-8-0,0-0-10]

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	0.67	Vert(LL)	0.62	17-19	>875	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.86	Vert(CT)	-0.68	17-19	>798	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.64	Horz(CT)	0.19	11	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-AS							Weight: 241 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 5-17, 8-16

REACTIONS (lb/size) 2=1541/0-3-8, (min. 0-1-12), 11=1541/0-3-8, (min. 0-1-12)
Max Horiz 2=285 (LC 11)
Max Uplift 2=-1007 (LC 11), 11=-1007 (LC 12)
Max Grav 2=1747 (LC 2), 11=1747 (LC 2)

FORCES

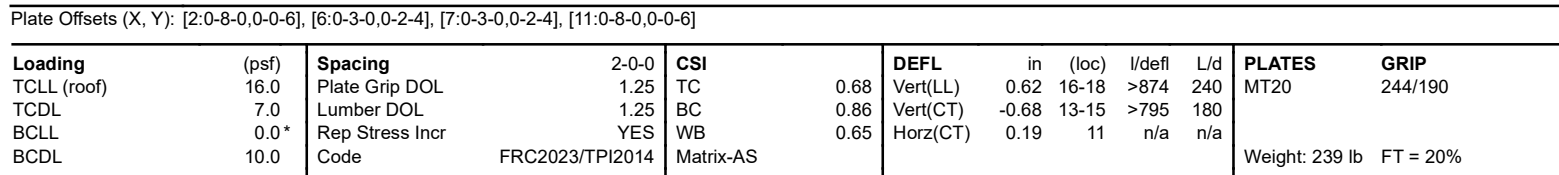
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-27=-3790/2012, 3-27=-3747/2024, 3-4=-3154/1699, 4-28=-3104/1715, 5-28=-3065/1719, 5-6=-2452/1455, 6-29=-2224/1411, 7-29=-2224/1411, 7-8=-2452/1455, 8-30=-3065/1719, 9-30=-3104/1715, 9-10=-3154/1699, 10-31=-3747/2025, 11-31=-3790/2013
BOT CHORD 2-20=-1999/3470, 19-20=-1999/3470, 18-19=-1482/2866, 18-32=-1482/2866, 17-32=-1482/2866, 16-17=-894/2224, 16-33=-1305/2866, 15-33=-1305/2866, 14-15=-1305/2866, 13-14=-1715/3470, 11-13=-1715/3470
WEBS 3-20=0/279, 3-19=-665/570, 5-19=-189/584, 5-17=-902/782, 6-17=-313/751, 7-16=-313/751, 8-16=-902/782, 8-14=-190/584, 10-14=-665/571, 10-13=0/279

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-2-11 to 4-3-5, Zone1 4-3-5 to 21-0-0, Zone3 21-0-0 to 24-0-0, Zone2 24-0-0 to 31-9-5, Zone1 31-9-5 to 46-2-11 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are 3x4 MT20 unless otherwise indicated.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1007 lb uplift at joint 2 and 1007 lb uplift at joint 11.
- 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

Maronda Homes, Sanford, Edwin Rios Run: 8.81 S Aug 19 2024 Print: 8.810 S Aug 19 2024 MiTek Industries, Inc. Fri Oct 04 14:04:05 Page: 1



REACTIONS	(lb/size)	2=1542/0-3-8, (min. 0-1-12), 11=1484/0-3-8, (min. 0-1-11)
	Max Horiz	2=300 (LC 15)
	Max Uplift	2=-1007 (LC 11), 11=-942 (LC 12)
	Max Grav	2=1747 (LC 2), 11=1700 (LC 2)
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-26=-3792/2013, 3-26=-3749/2025, 3-4=-3155/1708, 4-27=-3106/1724, 5-27=-3066/1727, 5-6=-2453/1457, 6-28=-2226/1420, 7-28=-2226/1420, 7-8=-2453/1464, 8-29=-3068/1723, 9-29=-3108/1720, 9-10=-3157/1703, 10-30=-3739/2041, 11-30=-3800/2029	
BOT CHORD	2-19=-2015/3471, 18-19=-2015/3471, 17-18=-1498/2867, 17-31=-1498/2867, 16-31=-1498/2867, 15-16=-910/2226, 15-32=-1332/2869, 14-32=-1332/2869, 13-14=-1332/2869, 12-13=-1762/3480, 11-12=-1762/3480	
WEBS	3-19=0/279, 3-18=-665/570, 5-18=-189/584, 5-16=-902/782, 6-16=-313/751, 7-15=-317/751, 8-15=-904/785, 8-13=-194/587, 10-13=-673/583, 10-12=0/280	

- ### NOTES
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCFL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-2-11 to 4-3-5, Zone1 4-3-5 to 21-0-0, Zone3 21-0-0 to 24-0-0, Zone2 24-0-0 to 31-9-5, Zone1 31-9-5 to 45-0-0 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) All plates are 3x4 MT20 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, with BCDL = 10.0psf.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1007 lb uplift at joint 2 and 942 lb uplift at joint 11.
 - 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	Willow J (frame) - Base model
Willow J _	HGR01	Hip Girder	1	2	Job Reference (optional)

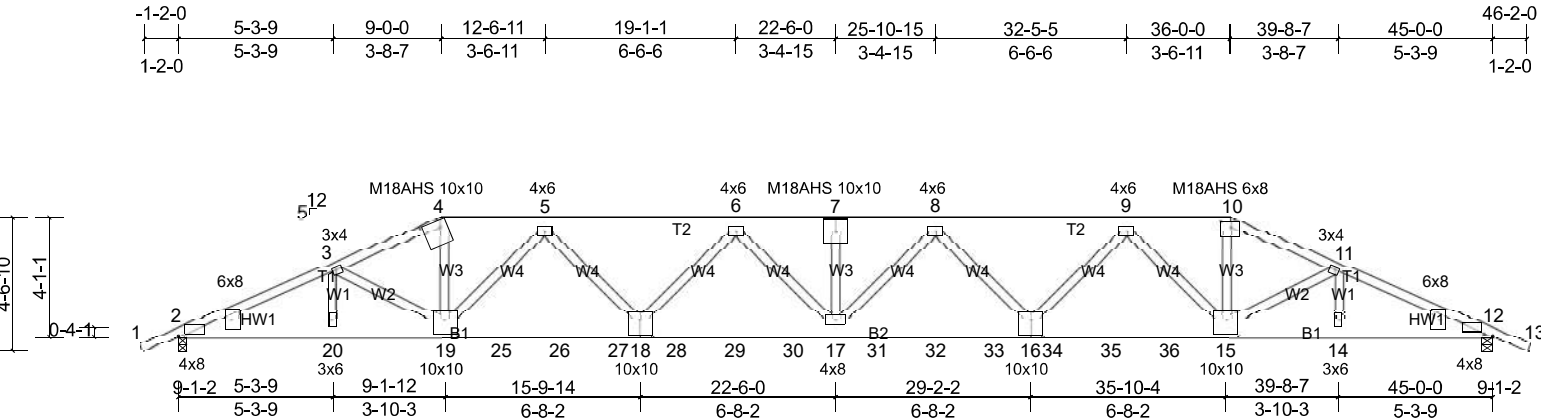


Plate Offsets (X, Y): [2:0-2-10,0-0-14], [4:0-7-8,0-3-0], [10:0-4-0,0-2-2], [12:0-4-6,0-1-10], [15:0-5-0,0-6-4], [16:0-5-0,0-6-12], [18:0-5-0,0-6-12], [19:0-5-0,0-6-4]												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.25	TC	1.00	Vert(LL)	1.22	17	>438	240	M18AHS	186/179
TCDL	7.0	Lumber DOL	1.25	BC	0.76	Vert(CT)	-0.98	17	>547	180	MT20	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.44	Horz(CT)	-0.21	12	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							Weight: 640 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2 *Except* T2:2x6 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-6-10 oc purlins.
BOT CHORD	2x8 SP No.1D	BOT CHORD	Rigid ceiling directly applied or 5-5-8 oc bracing.
WEBS	2x4 SP No.2		
WEDGE	Left: 2x4 SP No.2		
	Right: 2x4 SP No.2		

REACTIONS (lb/size) 2=4199/0-3-8, (min. 0-2-2), 12=4206/0-4-8, (min. 0-2-2)
Max Horiz 2=129 (LC 26)
Max Uplift 2=-3885 (LC 3), 12=-3893 (LC 4)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-10147/9466, 3-4=-10234/9756, 4-5=-9592/9198, 5-6=-13594/13072, 6-7=-14964/14421, 7-8=-14964/14421, 8-9=-13580/13058, 9-10=-9565/9171, 10-11=-10204/9728, 11-12=-10066/9390
BOT CHORD 2-20=-8640/9328, 19-20=-8640/9328, 19-25=-11209/11816, 25-26=-11209/11816, 26-27=-11209/11816, 18-27=-11209/11816, 18-28=-13742/14419, 28-29=-13742/14419, 29-30=-13742/14419, 17-30=-13742/14419, 17-31=-13728/14410, 31-32=-13728/14410, 32-33=-13728/14410, 16-33=-13728/14410, 16-34=-11171/11793, 34-35=-11171/11793, 35-36=-11171/11793, 15-36=-11171/11793, 14-15=-8534/9252, 12-14=-8534/9252
WEBS 4-19=-3713/3903, 10-15=-3702/3891, 3-20=-214/322, 3-19=-407/414, 11-14=-254/362, 11-15=-431/413, 5-19=-3255/3196, 5-18=-2483/2665, 6-18=-1254/1278, 6-17=-920/827, 8-17=-930/838, 8-16=-1264/1287, 9-16=-2493/2676, 9-15=-3264/3203

- NOTES**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 4-19 2x4 - 1 row at 0-7-0 oc, Except member 10-15 2x4 - 1 row at 0-7-0 oc.
 - 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.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; 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
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3885 lb uplift at joint 2 and 3893 lb uplift at joint 12.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 921 lb down and 978 lb up at 9-0-0, 268 lb down and 287 lb up at 11-0-12, 268 lb down and 287 lb up at 13-0-12, 268 lb down and 287 lb up at 15-0-12, 268 lb down and 287 lb up at 17-0-12, 268 lb down and 287 lb up at 19-0-12, 268 lb down and 287 lb up at 21-0-12, 268 lb down and 287 lb up at 22-6-0, 268 lb down and 287 lb up at 23-11-4, 268 lb down and 287 lb up at 25-11-4, 268 lb down and 287 lb up at 27-11-4, 268 lb down and 287 lb up at 29-11-4, 268 lb down and 287 lb up at 31-11-4, and 268 lb down and 287 lb up at 33-11-4, and 921 lb down and 978 lb up at 35-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

Job	Truss	Truss Type	Qty	Ply	Willow J (frame) - Base model
Willow J _	HGR01	Hip Girder	1	2	Job Reference (optional)

LOAD CASE(S) Standard

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

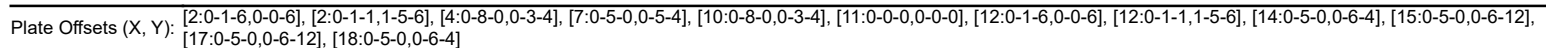
 Uniform Loads (lb/ft)

 Vert: 1-4=-46, 4-10=-46, 10-13=-46, 2-12=-20

 Concentrated Loads (lb)

 Vert: 19=-921, 15=-921, 17=-268, 25=-268, 26=-268, 27=-268, 28=-268, 29=-268, 30=-268, 31=-268, 32=-268, 33=-268, 34=-268, 35=-268, 36=-268

Maronda Homes, Sanford, Edwin Rios Run: 8.81 S Aug 19 2024 Print: 8.810 S Aug 19 2024 MiTek Industries, Inc. Fri Oct 04 14:04:06 Page: 1
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LUMBER		BRACING	
TOP CHORD	2x4 SP No.2 *Except* T2:2x6 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-6-9 oc purlins.
BOT CHORD	2x8 SP No.1D	BOT CHORD	Rigid ceiling directly applied or 5-5-6 oc bracing.
WEBS	2x4 SP No.2		
WEDGE	Left: 2x4 SP No.2 Right: 2x4 SP No.2		

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-10160/9477, 3-4=-10246/9768, 4-5=-9605/9209, 5-6=-13616/13091, 6-7=-14994/14454, 7-8=-14994/14454, 8-9=-13619/13102, 9-10=-9611/9223, 10-11=-10254/9782, 11-12=-10181/9515
BOT CHORD	2-19=-8671/9340, 18-19=-8671/9340, 18-24=-11245/11833, 24-25=-11245/11833, 25-26=-11245/11833, 17-26=-11245/11833, 17-27=-13785/14444, 27-28=-13785/14444, 28-29=-13785/14444, 16-29=-13785/14444, 16-30=-13780/14446, 30-31=-13780/14446, 31-32=-13780/14446, 15-32=-13780/14446, 15-33=-11241/11837, 33-34=-11241/11837, 34-35=-11241/11837, 14-35=-11241/11837, 13-14=-8692/9359, 12-13=-8692/9359
WEBS	4-18=-3718/3909, 10-14=-3724/3912, 3-19=-214/322, 3-18=-407/414, 11-13=-210/308, 11-14=-410/435, 5-18=-3262/3203, 5-17=-2490/2672, 6-17=-1260/1285, 6-16=-926/833, 8-16=-925/832, 8-15=-1258/1282, 9-15=-2488/2671, 9-14=-3260/3199

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 4-18 2x4 - 1 row at 0-7-0 oc, Except member 10-14 2x4 - 1 row at 0-7-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; 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
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) The Fabrication Tolerance at joint 4 = 12%, joint 10 = 12%
- 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 3889 lb uplift at joint 2 and 3800 lb uplift at joint 12.

Job	Truss	Truss Type	Qty	Ply	Willow J (frame) - Base model
Willow J _	HGR01A	Hip Girder	1	2	Job Reference (optional)

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 921 lb down and 978 lb up at 9-0-0, 268 lb down and 287 lb up at 11-0-12, 268 lb down and 287 lb up at 13-0-12, 268 lb down and 287 lb up at 15-0-12, 268 lb down and 287 lb up at 17-0-12, 268 lb down and 287 lb up at 19-0-12, 268 lb down and 287 lb up at 21-0-12, 268 lb down and 287 lb up at 22-6-0, 268 lb down and 287 lb up at 23-11-4, 268 lb down and 287 lb up at 25-11-4, 268 lb down and 287 lb up at 27-11-4, 268 lb down and 287 lb up at 29-11-4, 268 lb down and 287 lb up at 31-11-4, and 268 lb down and 287 lb up at 33-11-4, and 921 lb down and 978 lb up at 35-11-4 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: 1-4=-46, 4-10=-46, 10-12=-46, 2-12=-20
- Concentrated Loads (lb)
- Vert: 18=-921, 14=-921, 16=-268, 24=-268, 25=-268, 26=-268, 27=-268, 28=-268, 29=-268, 30=-268, 31=-268, 32=-268, 33=-268, 34=-268, 35=-268

Job	Truss	Truss Type	Qty	Ply	Willow J (frame) - Base model
Willow J _	HGR10E	Common Girder	1	1	Job Reference (optional)

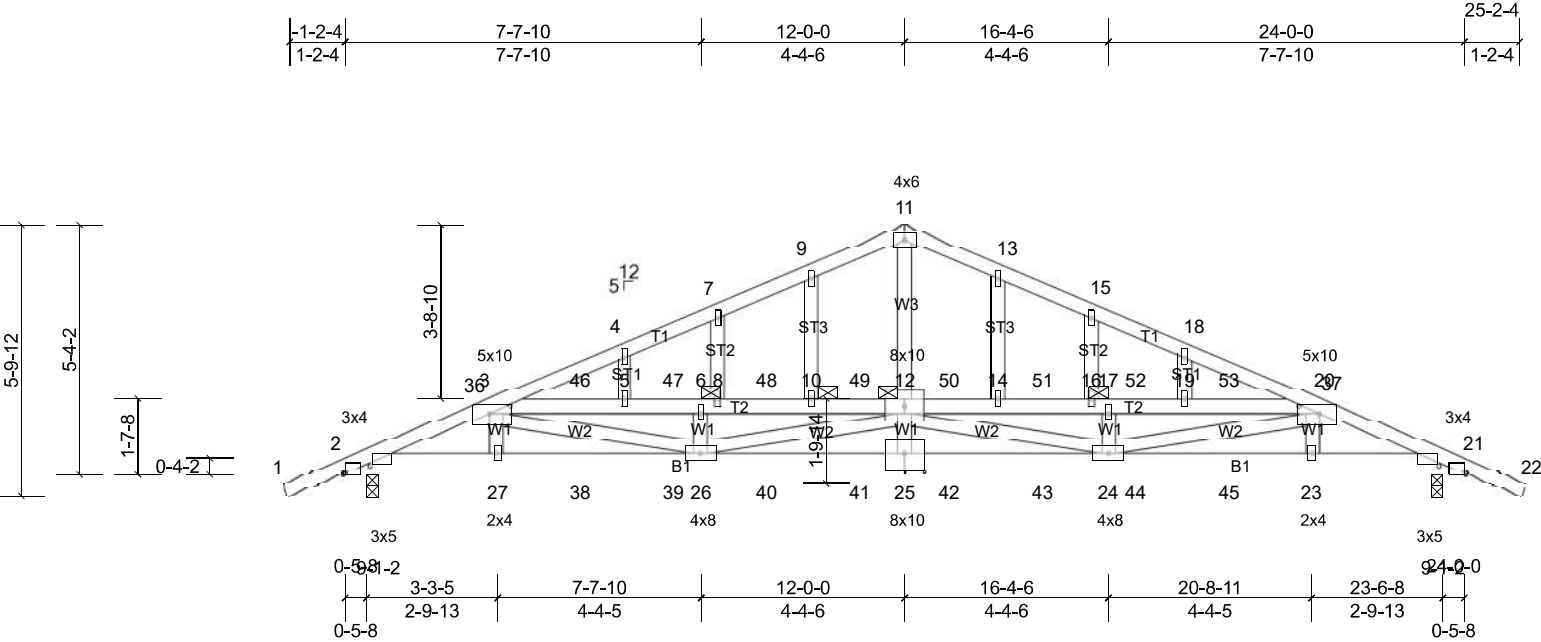


Plate Offsets (X, Y): [2:0-6-15,0-2-1], [2:Edge,0-0-6], [3:0-5-4,0-1-13], [20:0-5-4,0-1-13], [21:0-6-15,0-2-1], [21:Edge,0-0-6], [25:0-5-0,0-4-8]

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	0.41	Vert(LL)	0.16	26	>999	240	MT20 244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.47	Vert(CT)	-0.12	26	>999	180	
BCLL	0.0*	Rep Stress Incr	NO	WB	0.37	Horz(CT)	-0.04	21	n/a	n/a	
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							Weight: 178 lb FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-5-7 oc purlins.
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 5-11-0 oc bracing.
WEBS	2x4 SP No.2	JOINTS	1 Brace at Jt(s): 12, 6, 17, 10
OTHERS	2x4 SP No.2		

REACTIONS (lb/size) 2=1005/0-3-0, (min. 0-1-8), 21=1005/0-3-0, (min. 0-1-8)
Max Horiz 2=170 (LC 7)
Max Uplift 2=-1021 (LC 3), 21=-1020 (LC 4)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-36=-1700/1672, 3-36=-1661/1664, 3-4=-1393/1270, 4-7=-1362/1295, 7-9=-1392/1362, 9-11=-1362/1380, 11-13=-1362/1382, 13-15=-1392/1366, 15-18=-1362/1299, 18-20=-1393/1273, 20-37=-1661/1664, 21-37=-1700/1673, 3-46=-632/663, 5-46=-634/663, 5-47=-634/664, 6-47=-634/664, 6-8=-634/664, 8-48=-634/664, 10-48=-634/664, 10-49=-634/664, 12-49=-634/664, 12-50=-550/691, 14-50=-550/691, 14-51=-550/691, 16-51=-550/691, 16-17=-550/691, 17-52=-550/691, 19-52=-550/691, 19-53=-550/690, 20-53=-548/690
BOT CHORD 2-27=-1464/1544, 27-38=-1472/1555, 38-39=-1472/1555, 26-40=-638/803, 40-41=-638/803, 25-41=-638/803, 25-42=-638/803, 42-43=-638/803, 24-43=-638/803, 24-44=-1482/1555, 44-45=-1482/1555, 23-45=-1482/1555, 21-23=-1476/1544
WEBS 6-26=-316/359, 17-24=-306/359, 3-26=-290/283, 12-26=-1091/1044, 20-24=-292/265, 12-24=-1084/1044, 11-12=-907/870

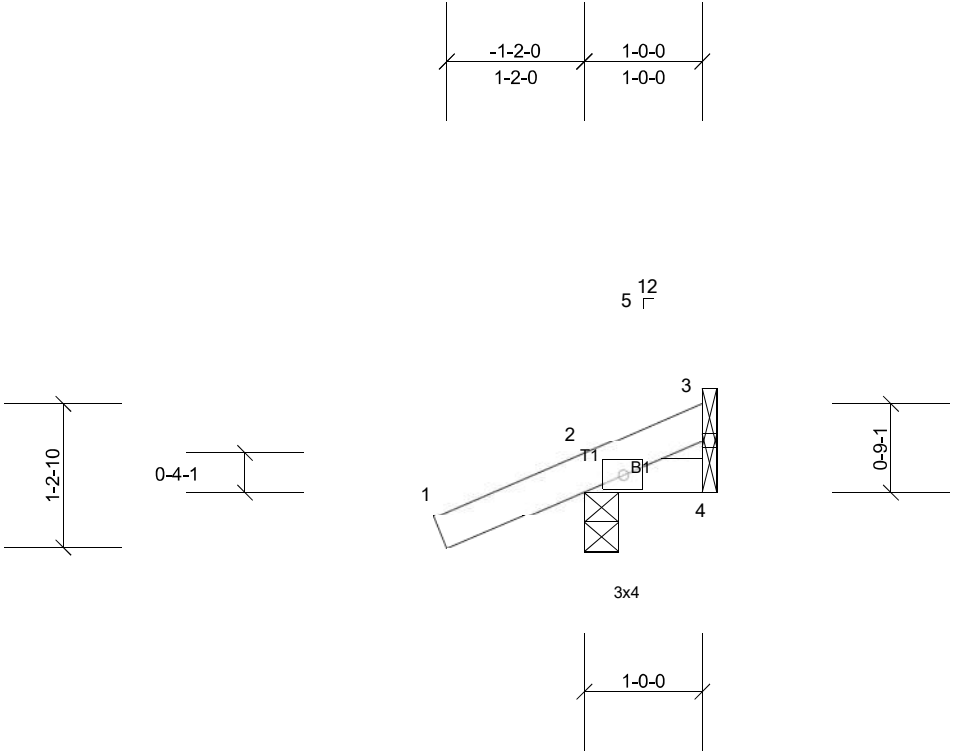
- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone; cantilever left and right exposed ; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 1.5x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - 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.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1021 lb uplift at joint 2 and 1020 lb uplift at joint 21.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 186 lb down and 122 lb up at 3-0-0, and 186 lb down and 122 lb up at 20-11-12 on top chord, and 125 lb down and 46 lb up at 3-0-0, 12 lb down and 39 lb up at 5-0-12, 12 lb down and 39 lb up at 7-0-12, 12 lb down and 39 lb up at 9-0-12, 12 lb down and 39 lb up at 11-0-12, 12 lb down and 39 lb up at 12-11-12, 12 lb down and 39 lb up at 14-11-12, 12 lb down and 39 lb up at 16-11-12, and 12 lb down and 39 lb up at 18-11-12, and 125 lb down and 46 lb up at 20-11-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Willow J (frame) - Base model
Willow J _	HGR10E	Common Girder	1	1	Job Reference (optional)

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (lb/ft)
- Vert: 1-3=-46, 3-11=-46, 11-20=-46, 20-22=-46, 2-21=-20
- Concentrated Loads (lb)
- Vert: 27=10, 23=10, 36=-1, 37=-1, 38=1, 39=1, 40=1, 41=1, 42=1, 43=1, 44=1, 45=1, 46=-42, 47=-42, 48=-42, 49=-42, 50=-42, 51=-42, 52=-42, 53=-42

Job	Truss	Truss Type	Qty	Ply	Willow J (frame) - Base model
Willow J _	J15	Jack-Open	8	1	Job Reference (optional)



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	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.04	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 = 20%

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.

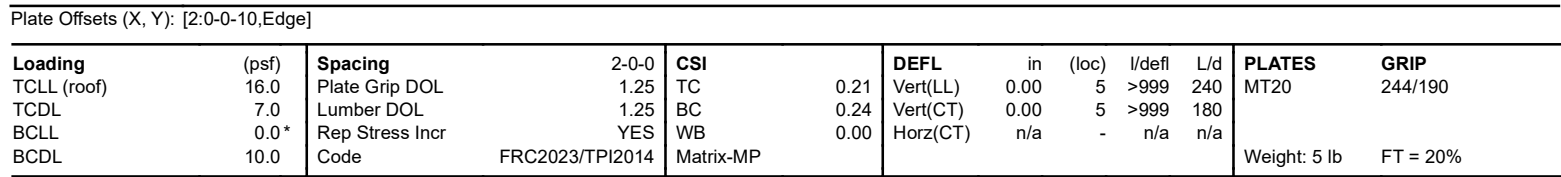
REACTIONS (lb/size) 2=124/0-3-8, (min. 0-1-8), 3=3/ Mechanical, (min. 0-1-8), 4=-5/ Mechanical, (min. 0-1-8)
Max Horiz 2=60 (LC 11)
Max Uplift 2=-150 (LC 7), 3=-2 (LC 11), 4=-5 (LC 1)
Max Grav 2=124 (LC 1), 3=10 (LC 7), 4=28 (LC 7)

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

NOTES
1) Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 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 2 lb uplift at joint 3, 150 lb uplift at joint 2 and 5 lb uplift at joint 4.

LOAD CASE(S) Standard

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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.

- 1) Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCdL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone; cantilever left exposed ; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) * This truss has been designed for a 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 33 lb uplift at joint 3, 45 lb uplift at joint 4 and 242 lb uplift at joint 2.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Willow J (frame) - Base model
Willow J _	J35	Jack-Open	7	1	Job Reference (optional)

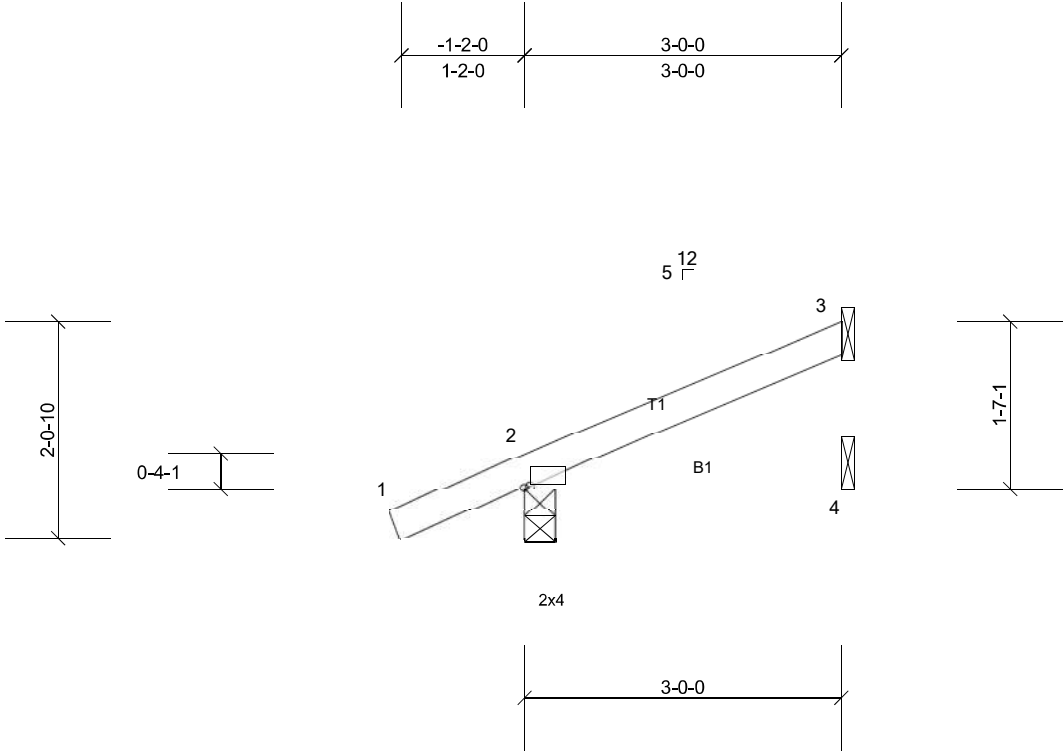


Plate Offsets (X, Y): [2:0-0-10,Edge]

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	0.21	Vert(LL)	0.01	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.10	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: 11 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 3-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

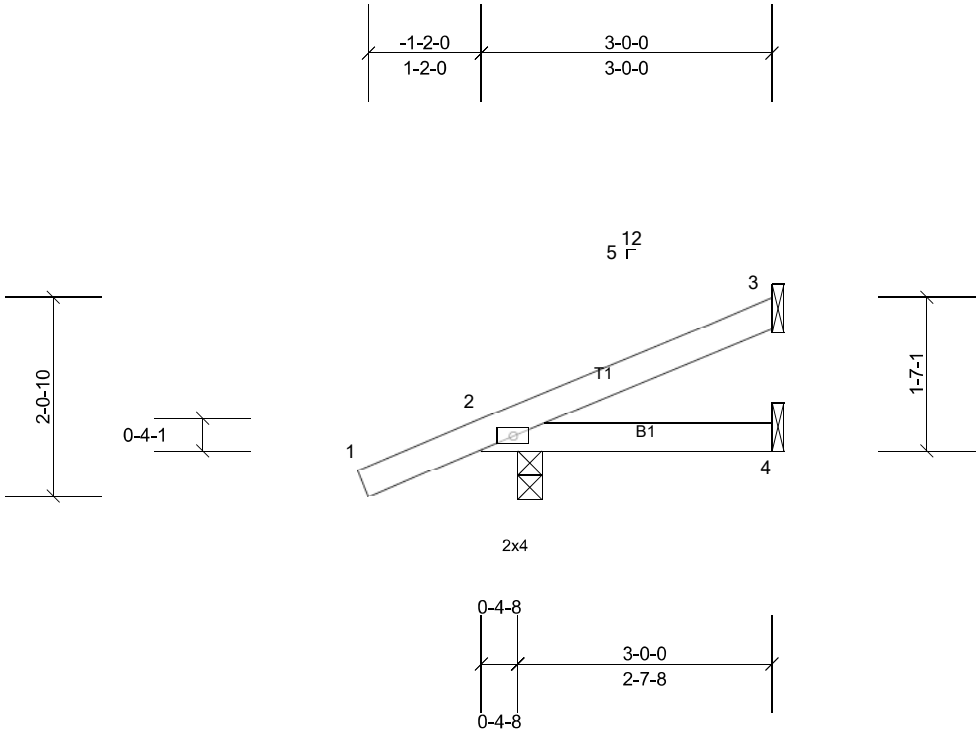
REACTIONS (lb/size) 2=165/0-3-8, (min. 0-1-8), 3=54/ Mechanical, (min. 0-1-8), 4=32/ Mechanical, (min. 0-1-8)
Max Horiz 2=118 (LC 11)
Max Uplift 2=-135 (LC 11), 3=-77 (LC 11), 4=-1 (LC 11)

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

NOTES
1) Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 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 77 lb uplift at joint 3, 135 lb uplift at joint 2 and 1 lb uplift at joint 4.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Willow J (frame) - Base model
Willow J _	J35E	Jack-Open	10	1	Job Reference (optional)



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	0.21	Vert(LL)	0.00	4-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.24	Vert(CT)	0.00	4-9	>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: 11 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 3-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

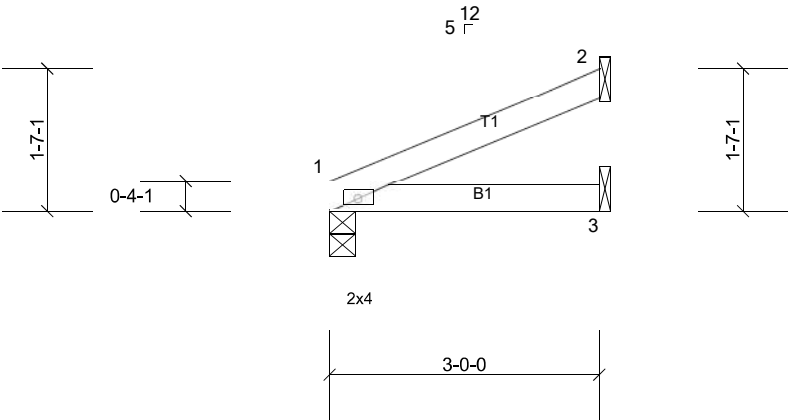
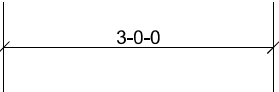
REACTIONS (lb/size) 2=189/0-3-0, (min. 0-1-8), 3=42/ Mechanical, (min. 0-1-8), 4=19/ Mechanical, (min. 0-1-8)
Max Horiz 2=118 (LC 11)
Max Uplift 2=-209 (LC 7), 3=-67 (LC 11), 4=-27 (LC 8)
Max Grav 2=189 (LC 1), 3=42 (LC 1), 4=23 (LC 16)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-456/150
BOT CHORD 2-4=-187/600

NOTES
1) Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone; cantilever left exposed ; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) * This truss has been designed for a 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 67 lb uplift at joint 3, 209 lb uplift at joint 2 and 27 lb uplift at joint 4.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Willow J (frame) - Base model
Willow J _	J35S	Jack-Open	1	1	Job Reference (optional)



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)	0.01	3-6	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.17	Vert(CT)	0.01	3-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MP							Weight: 9 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 3-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 1=97/0-3-8, (min. 0-1-8), 2=59/ Mechanical, (min. 0-1-8), 3=38/ Mechanical, (min. 0-1-8)
Max Horiz 1=87 (LC 11)
Max Uplift 1=-55 (LC 11), 2=-84 (LC 11), 3=-9 (LC 11)

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

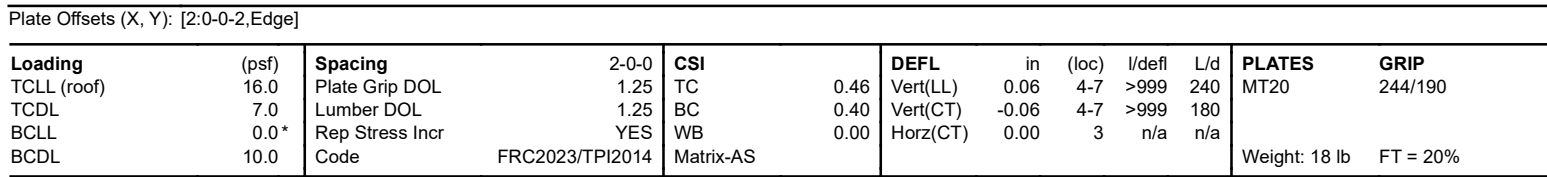
NOTES
1) Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) * This truss has been designed 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 55 lb uplift at joint 1, 84 lb uplift at joint 2 and 9 lb uplift at joint 3.

LOAD CASE(S) Standard

- Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- * 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint 1, 84 lb uplift at joint 2 and 9 lb uplift at joint 3.

LOAD CASE(S) Standard

Maronda Homes, Sanford, Edwin Rios Run: 8.81 S Aug 19 2024 Print: 8.810 S Aug 19 2024 MiTek Industries, Inc. Fri Oct 04 14:04:08 Page: 1
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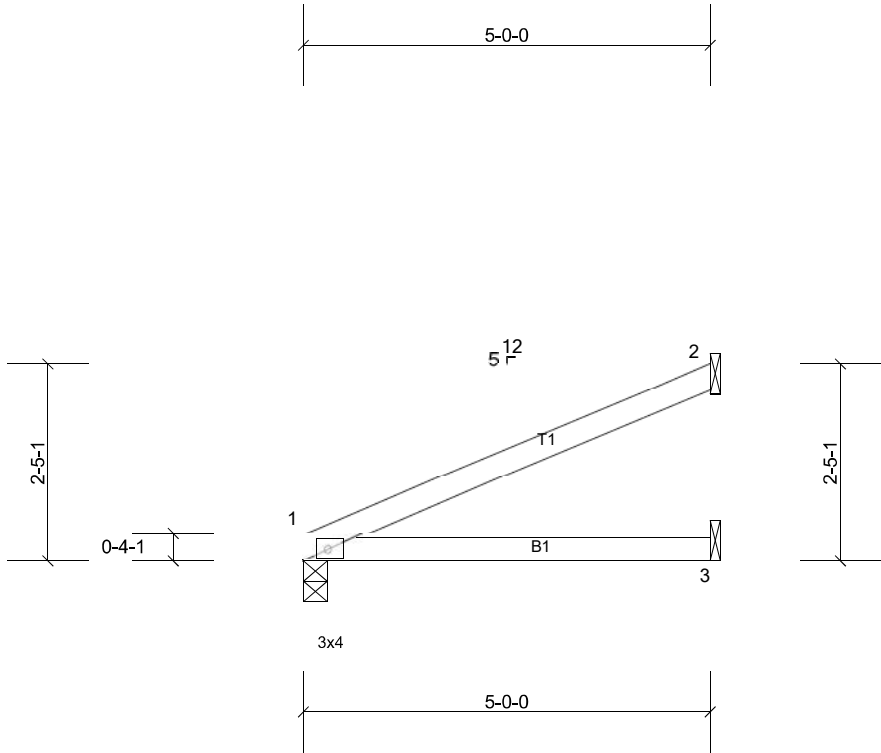
REACTIONS (lb/size) 2=226/0-3-8, (min. 0-1-8), 3=100/ Mechanical, (min. 0-1-8),
4=56/ Mechanical, (min. 0-1-8)
Max Horiz 2=177 (LC 11)
Max Uplift 2=-167 (LC 11), 3=-145 (LC 11), 4=-2 (LC 11)

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

- NOTES**
- 1) Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCdL=4.2psf; BCdL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-2-11 to 4-3-5, Zone1 4-3-5 to 4-11-4 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 145 lb uplift at joint 3, 167 lb uplift at joint 2 and 2 lb uplift at joint 4.
 - 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	Willow J (frame) - Base model
Willow J _	J55S	Jack-Open	1	1	Job Reference (optional)



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	0.49	Vert(LL)	0.07	3-6	>846	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.47	Vert(CT)	-0.06	3-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	1	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPJ2014	Matrix-AS							Weight: 16 lb	FT = 20%

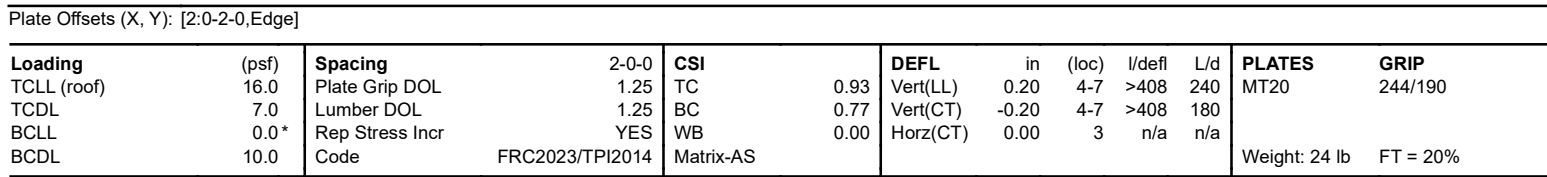
LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied.

REACTIONS (lb/size) 1=163/0-3-8, (min. 0-1-8), 2=104/ Mechanical, (min. 0-1-8), 3=59/ Mechanical, (min. 0-1-8)
Max Horiz 1=146 (LC 11)
Max Uplift 1=-94 (LC 11), 2=-150 (LC 11), 3=-7 (LC 11)
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES**
- Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - * 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.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 94 lb uplift at joint 1, 150 lb uplift at joint 2 and 7 lb uplift at joint 3.
 - 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

Maronda Homes, Sanford, Edwin Rios Run: 8.81 S Aug 19 2024 Print: 8.810 S Aug 19 2024 MiTek Industries, Inc. Fri Oct 04 14:04:08 Page: 1
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REACTIONS	(lb/size)	2=290/0-4-8, (min. 0-1-8), 3=146/ Mechanical, (min. 0-1-8), 4=78/ Mechanical, (min. 0-1-8)
	Max Horiz	2=237 (LC 11)
	Max Uplift	2=-203 (LC 11), 3=-213 (LC 11)
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	

- LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Willow J (frame) - Base model
Willow J _	J75S	Jack-Open	1	1	Job Reference (optional)

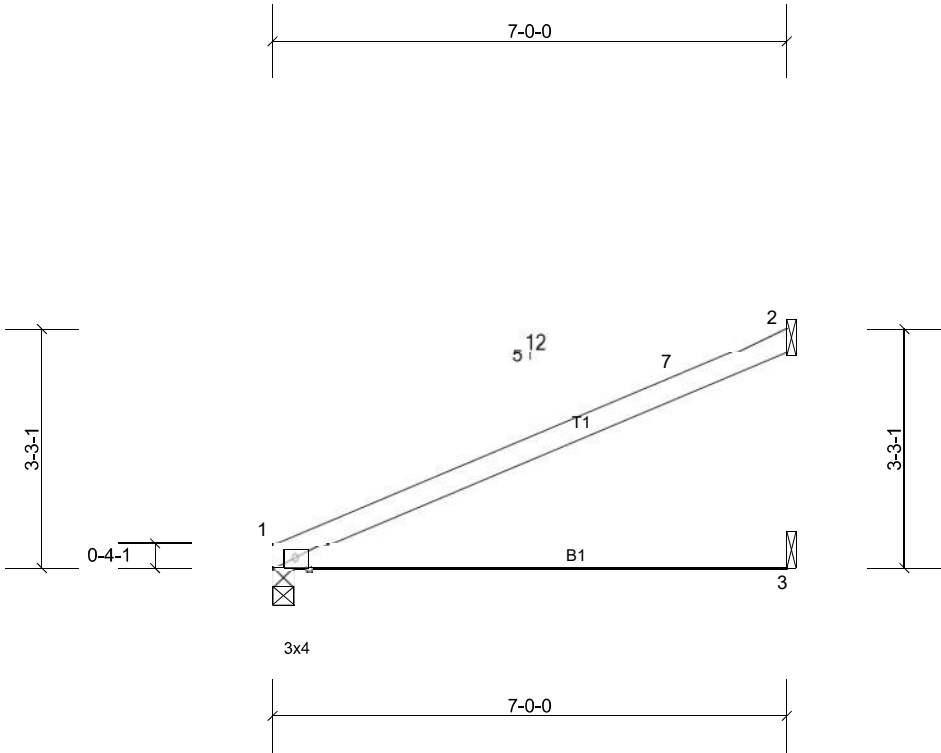


Plate Offsets (X, Y): [1:0-2-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.25	TC	0.96	Vert(LL)	0.22	3-6	>378	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.82	Vert(CT)	-0.20	3-6	>410	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	2	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-AS							Weight: 22 lb	FT = 20%

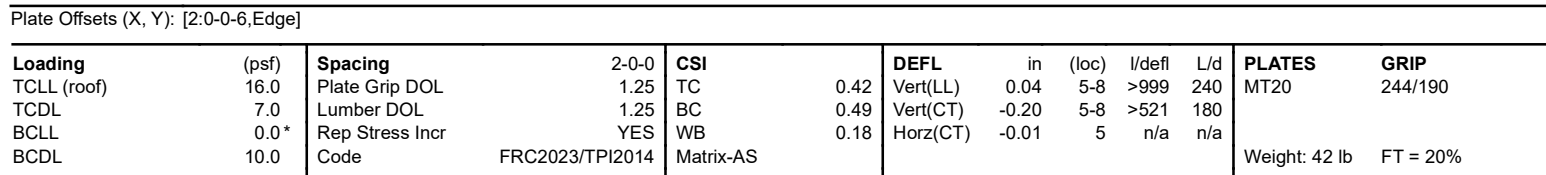
LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied.

REACTIONS (lb/size) 1=229/0-3-8, (min. 0-1-8), 2=149/ Mechanical, (min. 0-1-8), 3=80/ Mechanical, (min. 0-1-8)
Max Horiz 1=206 (LC 11)
Max Uplift 1=-132 (LC 11), 2=-217 (LC 11), 3=-3 (LC 11)
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES**
- Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-0 to 5-6-0, Zone1 5-6-0 to 6-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - * 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.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 132 lb uplift at joint 1, 217 lb uplift at joint 2 and 3 lb uplift at joint 3.
 - 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

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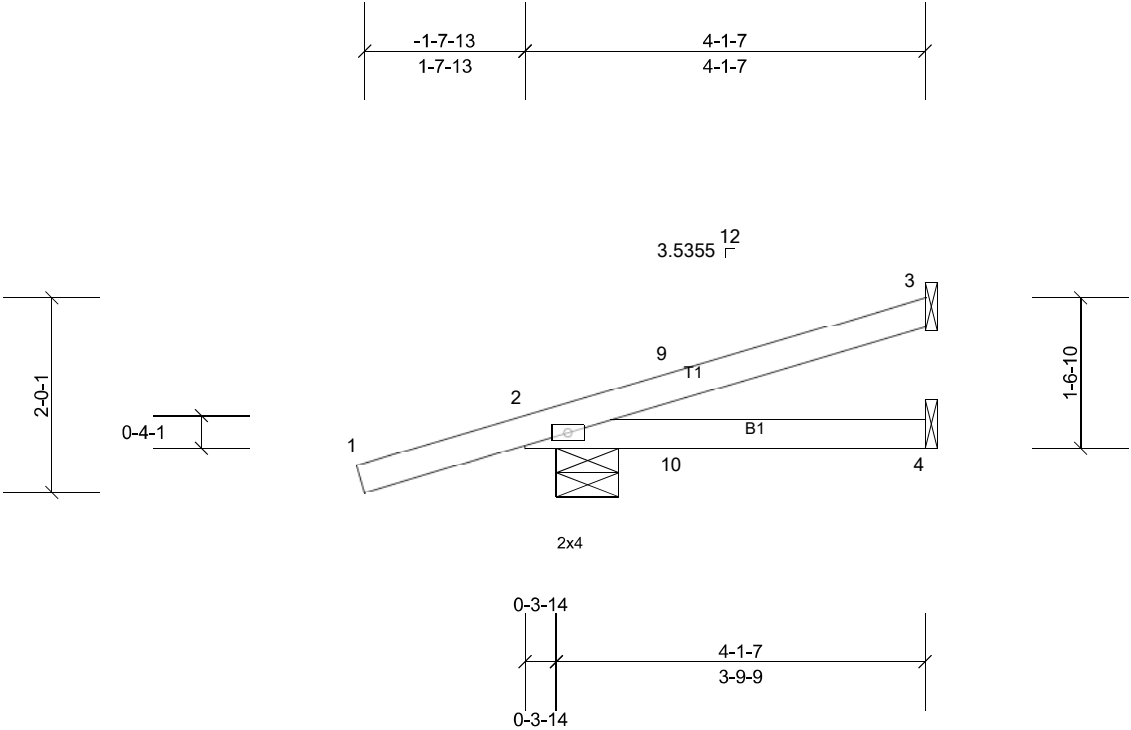


REACTIONS	(lb/size)	2=352/0-3-8, (min. 0-1-8), 5=288/ Mechanical, (min. 0-1-8)
	Max Horiz	2=293 (LC 11)
	Max Uplift	2=-238 (LC 11), 5=-275 (LC 11)
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-9=-368/360, 3-9=-367/371	
BOT CHORD	2-5=-607/447	
WEBS	3-5=-488/663	

- NOTES**
- 1) Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TC DL=4.2psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-2-11 to 4-5-14, Zone1 4-5-14 to 8-10-4 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 238 lb uplift at joint 2 and 275 lb uplift at joint 5.
 - 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	Willow J (frame) - Base model
Willow J _	JGR03E	Diagonal Hip Girder	2	1	Job Reference (optional)



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	0.43	Vert(LL)	-0.04	4-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.40	Vert(CT)	-0.04	4-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.01	3	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPJ2014	Matrix-MP							Weight: 15 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-1-7 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=167/0-7-12, (min. 0-1-8), 3=41/ Mechanical, (min. 0-1-8), 4=-1/ Mechanical, (min. 0-1-8)

Max Horiz 2=132 (LC 3)

Max Uplift 2=-191 (LC 3), 3=-50 (LC 7), 4=-21 (LC 20)

Max Grav 2=271 (LC 17), 3=58 (LC 17), 4=73 (LC 11)

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

- NOTES**
- 1) Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) 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.
 - 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.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 3, 191 lb uplift at joint 2 and 21 lb uplift at joint 4.
 - 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 148 lb down and 98 lb up at 1-6-1, and 148 lb down and 98 lb up at 1-6-1 on top chord, and 109 lb down and 73 lb up at 1-6-1, and 109 lb down and 73 lb up at 1-6-1 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, 4-5=-20

Concentrated Loads (lb)

Vert: 9=59, 10=79

Job	Truss	Truss Type	Qty	Ply	Willow J (frame) - Base model
Willow J _	JGR95	Diagonal Hip Girder	4	1	Job Reference (optional)

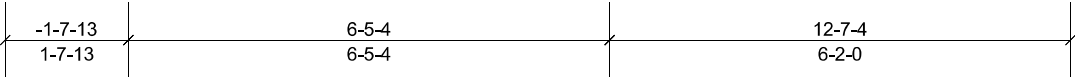


Plate Offsets (X, Y): [4:0-0-13,0-1-8]

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	0.71	Vert(LL)	0.10	5-6	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.71	Vert(CT)	-0.14	5-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.79	Horz(CT)	-0.03	5	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							Weight: 57 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.1D	TOP CHORD	Structural wood sheathing directly applied or 5-10-10 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 5-4-15 oc bracing.
WEBS	2x4 SP No.2		

REACTIONS (lb/size) 2=527/0-4-9, (min. 0-1-8), 5=681/ Mechanical, (min. 0-1-8)
Max Horiz 2=308 (LC 3)
Max Uplift 2=-575 (LC 3), 5=-674 (LC 7)
Max Grav 2=536 (LC 20), 5=681 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-10=-1190/1008, 10-11=-1195/1011, 3-11=-1158/1020, 4-5=-208/316
BOT CHORD 2-14=-1173/1146, 14-15=-1173/1146, 6-15=-1173/1146, 6-16=-1173/1146, 16-17=-1173/1146, 5-17=-1173/1146
WEBS 3-5=-1151/1183

- NOTES**
- 1) Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) 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.
 - 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.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 575 lb uplift at joint 2 and 674 lb uplift at joint 5.
 - 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 116 lb down and 45 lb up at 1-6-1, 116 lb down and 45 lb up at 1-6-1, 37 lb down and 78 lb up at 4-4-0, 37 lb down and 78 lb up at 4-4-0, 64 lb down and 136 lb up at 7-1-15, 64 lb down and 136 lb up at 7-1-15, and 91 lb down and 192 lb up at 9-11-14, and 91 lb down and 192 lb up at 9-11-14 on top chord, and 31 lb down and 8 lb up at 1-6-1, 31 lb down and 8 lb up at 1-6-1, 9 lb down and 17 lb up at 4-4-0, 9 lb down and 17 lb up at 4-4-0, 28 lb down and 19 lb up at 7-1-15, 28 lb down and 19 lb up at 7-1-15, and 50 lb down and 17 lb up at 9-11-14, and 50 lb down and 17 lb up at 9-11-14 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: 10=91, 11=-1, 12=-70, 13=-162, 15=-11, 16=-55, 17=-100

Job	Truss	Truss Type	Qty	Ply	Willow J (frame) - Base model
Willow J _	T09	Common	2	1	Job Reference (optional)

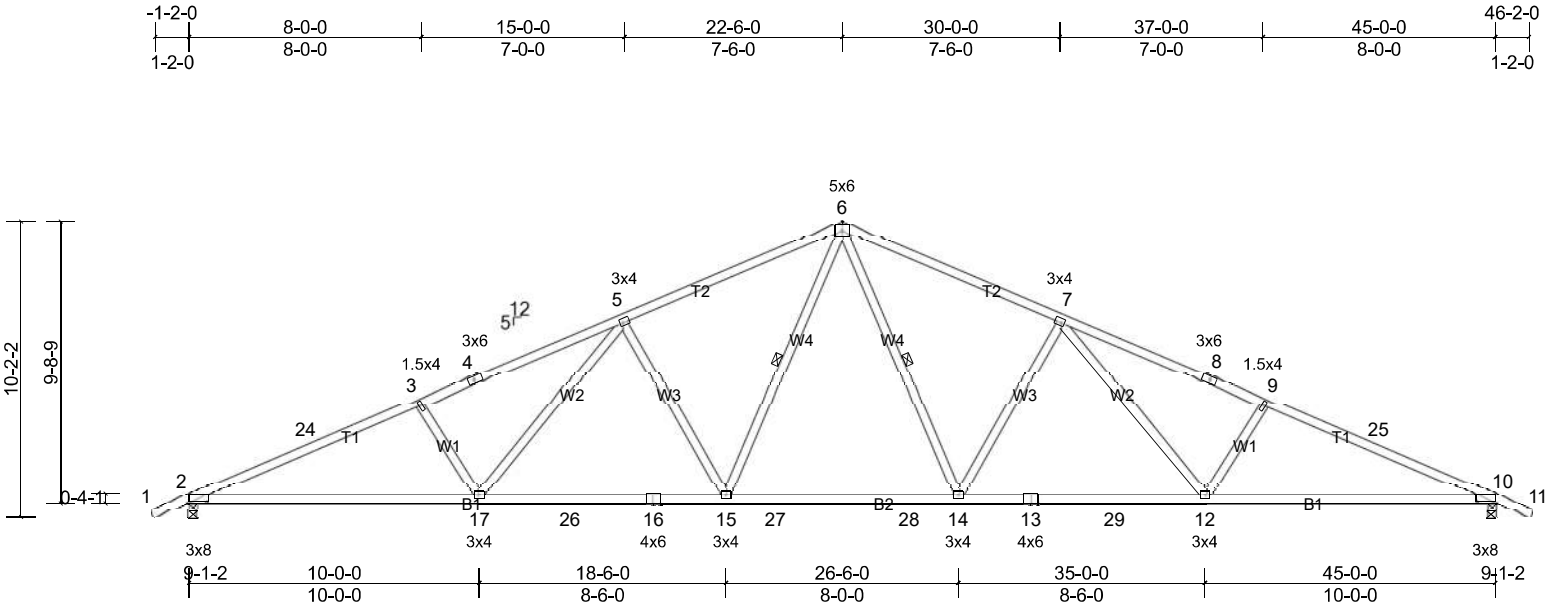


Plate Offsets (X, Y): [2:0-8-0,0-0-10], [10:0-8-0,0-0-10]

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	0.84	Vert(LL)	0.42	14-15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.99	Vert(CT)	-0.69	14-15	>780	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.17	10	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-AS							Weight: 228 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 6-14, 6-15

REACTIONS (lb/size) 2=1541/0-3-8, (min. 0-1-13), 10=1541/0-3-8, (min. 0-1-13)
Max Horiz 2=304 (LC 11)
Max Uplift 2=-1003 (LC 11), 10=-1003 (LC 12)
Max Grav 2=1767 (LC 2), 10=1767 (LC 2)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-24=-3755/1993, 3-24=-3712/2005, 3-4=-3611/1923, 4-5=-3518/1944, 5-6=-2750/1549, 6-7=-2750/1549, 7-8=-3518/1944, 8-9=-3611/1924, 9-25=-3712/2006, 10-25=-3755/1993
BOT CHORD 2-17=-1993/3440, 17-26=-1440/2796, 16-26=-1440/2796, 15-16=-1440/2796, 15-27=-841/2106, 27-28=-841/2106, 14-28=-841/2106, 13-14=-1226/2796, 13-29=-1226/2796, 12-29=-1226/2796, 10-12=-1690/3440
WEBS 6-14=-601/980, 7-14=-644/748, 7-12=-447/785, 9-12=-346/519, 6-15=-601/980, 5-15=-644/748, 5-17=-447/785, 3-17=-347/519

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-2-11 to 4-3-5, Zone1 4-3-5 to 22-6-0, Zone2 22-6-0 to 30-0-0, Zone1 30-0-0 to 46-2-11 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1003 lb uplift at joint 2 and 1003 lb uplift at joint 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	Willow J (frame) - Base model
Willow J _	T09A	Common	4	1	Job Reference (optional)

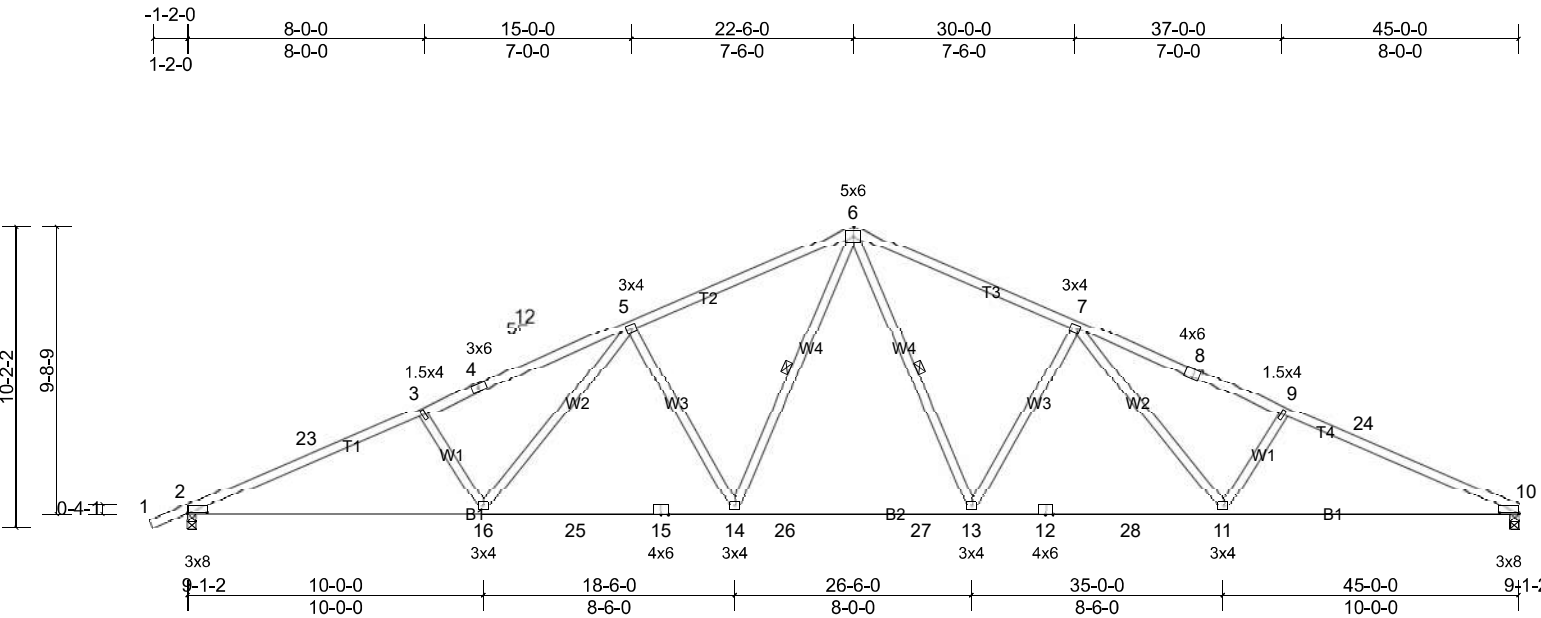


Plate Offsets (X, Y): [2:0-8-0,0-0-6], [8:0-3-0,Edge], [10:0-8-0,0-0-6]

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	0.87	Vert(LL)	0.42	13-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.99	Vert(CT)	-0.69	13-14	>779	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.17	10	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-AS							Weight: 226 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SP No.1D *Except* B2:2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 6-13, 6-14

REACTIONS (lb/size) 2=1542/0-3-8, (min. 0-1-13), 10=1484/0-3-8, (min. 0-1-12)
Max Horiz 2=319 (LC 15)
Max Uplift 2=-1003 (LC 11), 10=-938 (LC 12)
Max Grav 2=1767 (LC 2), 10=1720 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-23=-3756/1994, 3-23=-3714/2006, 3-4=-3613/1924, 4-5=-3520/1945, 5-6=-2751/1558, 6-7=-2752/1556, 7-8=-3525/1956, 8-9=-3619/1936, 9-24=-3702/2019, 10-24=-3763/2006
BOT CHORD 2-16=-2010/3441, 16-25=-1456/2797, 15-25=-1456/2797, 14-15=-1456/2797, 14-26=-857/2108, 26-27=-857/2108, 13-27=-857/2108, 12-13=-1253/2799, 12-28=-1253/2799, 11-28=-1253/2799, 10-11=-1735/3448
WEBS 6-13=-603/981, 7-13=-646/752, 7-11=-457/791, 9-11=-346/525, 6-14=-601/980, 5-14=-644/748, 5-16=-447/785, 3-16=-347/519

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-2-11 to 4-3-5, Zone1 4-3-5 to 22-6-0, Zone2 22-6-0 to 30-0-0, Zone1 30-0-0 to 45-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1003 lb uplift at joint 2 and 938 lb uplift at joint 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	Willow J (frame) - Base model
Willow J _	T10E	Common	1	1	Job Reference (optional)

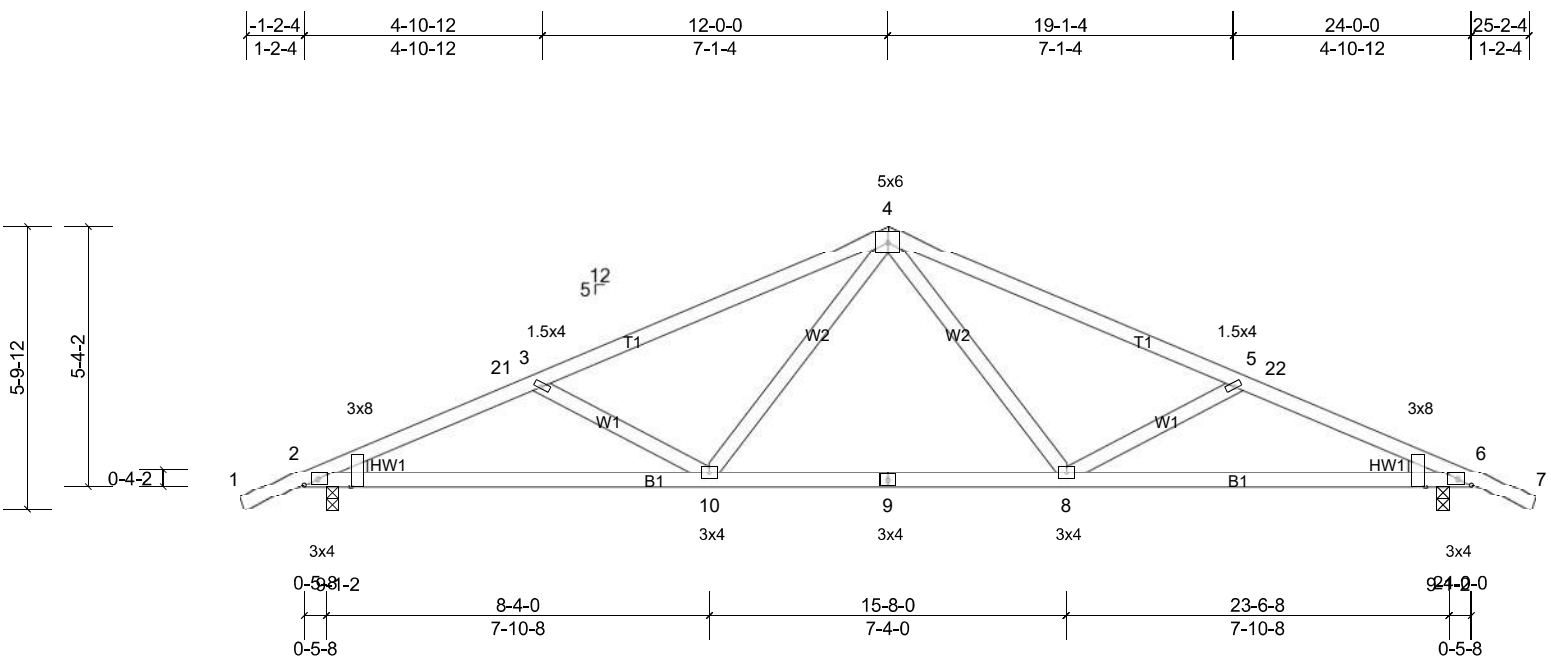


Plate Offsets (X, Y): [2:0-1-12,0-0-1], [2:0-0-6,Edge], [6:0-1-12,0-0-1], [6:0-0-6,Edge]

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	0.74	Vert(LL)	0.23	8-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.47	Vert(CT)	-0.18	8-10	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.40	Horz(CT)	-0.05	6	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-AS							Weight: 110 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SP No.2		
WEDGE	Left: 2x4 SP No.2		
	Right: 2x4 SP No.2		

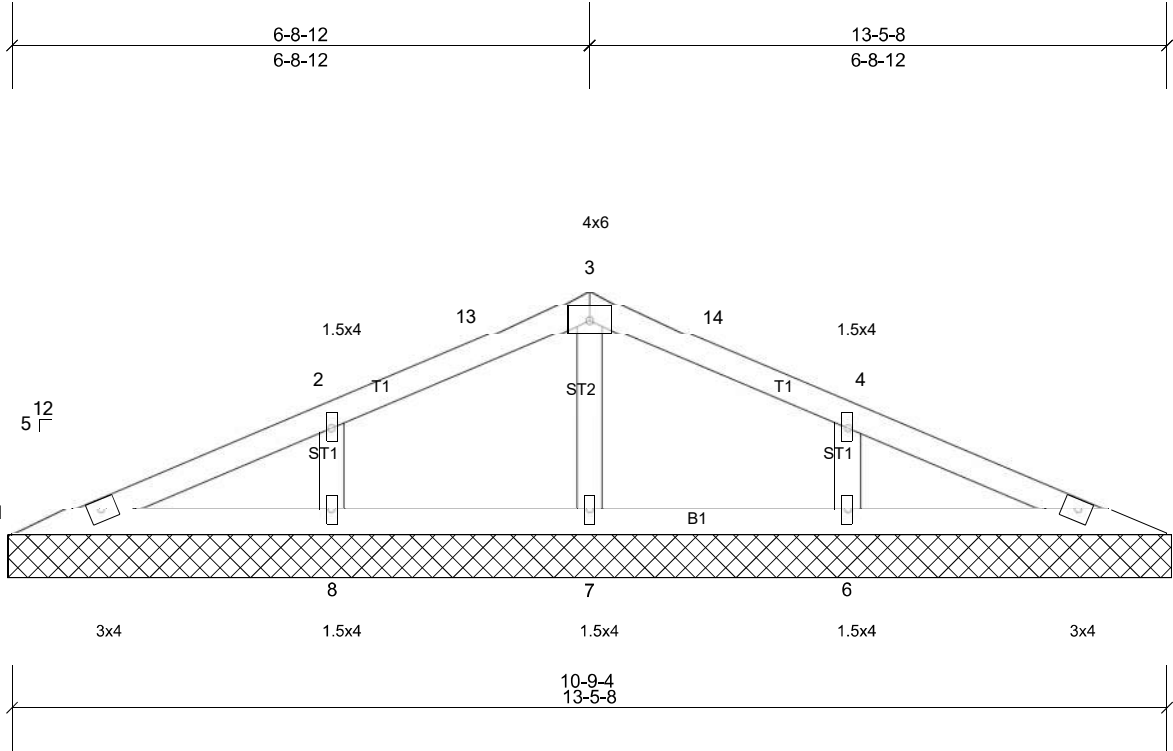
REACTIONS (lb/size) 2=849/0-3-0, (min. 0-1-8), 6=849/0-3-0, (min. 0-1-8)
Max Horiz 2=-170 (LC 16)
Max Uplift 2=-847 (LC 7), 6=-847 (LC 8)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-21=-1461/2052, 3-21=-1406/2054, 3-4=-1230/1758, 4-5=-1230/1759, 5-22=-1406/2056, 6-22=-1461/2054
BOT CHORD 2-10=-1779/1321, 9-10=-1016/882, 8-9=-1016/882, 6-8=-1809/1321
WEBS 4-8=-580/354, 5-8=-310/516, 4-10=-580/354, 3-10=-310/516

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-2-11 to 4-3-5, Zone1 4-3-5 to 12-0-4, Zone2 12-0-4 to 19-9-9, Zone1 19-9-9 to 25-3-3 zone; cantilever left and right exposed ; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 847 lb uplift at joint 2 and 847 lb uplift at joint 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	Willow J (frame) - Base model
Willow J _	V01	Valley	1	1	Job Reference (optional)



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	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.16	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-AS							Weight: 46 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied.
OTHERS	2x4 SP No.2		

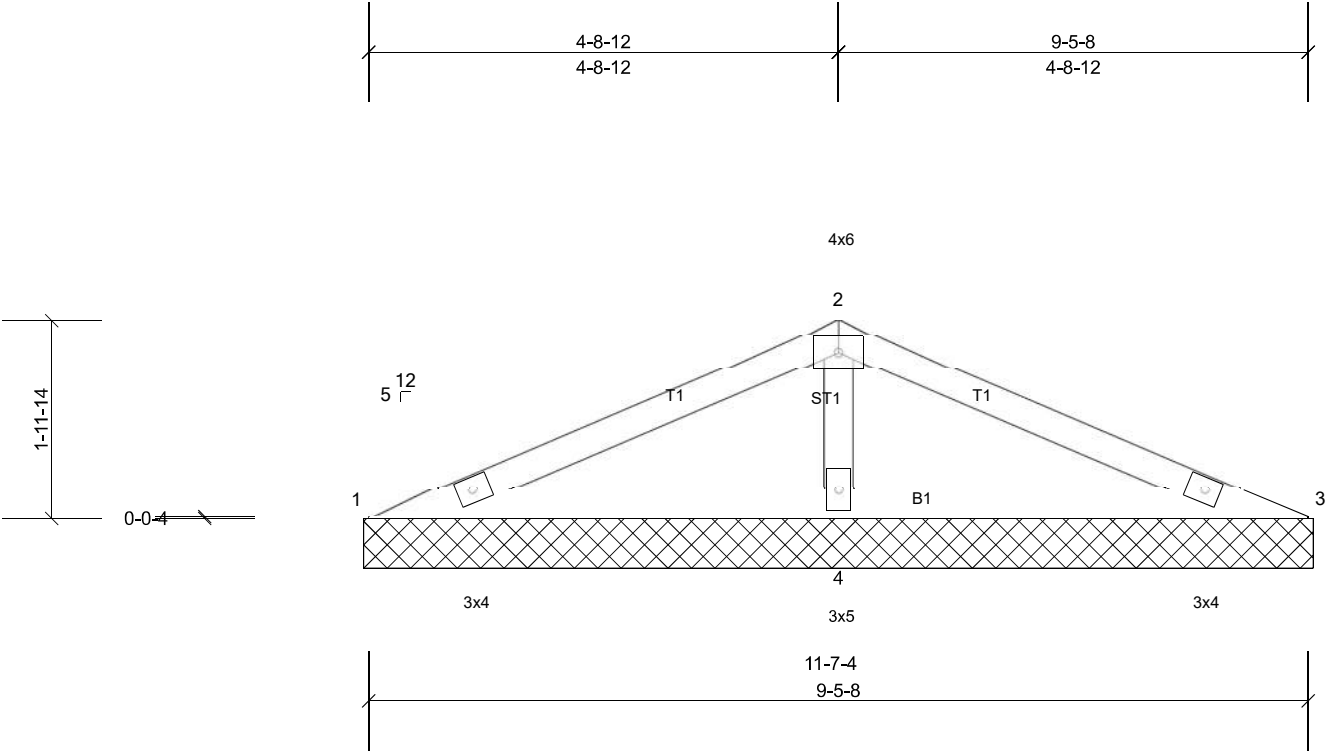
REACTIONS All bearings 13-6-12.
 (lb) - Max Horiz 1=82 (LC 11)
 Max Uplift All uplift 100 (lb) or less at joint(s) 1, 5, 7 except 6=-247 (LC 12), 8=-248 (LC 11)
 Max Grav All reactions 250 (lb) or less at joint(s) 1, 5, 7 except 6=264 (LC 25), 8=264 (LC 24)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-192/380, 4-6=-192/398

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-0 to 5-6-0, Zone1 5-6-0 to 6-9-6, Zone3 6-9-6 to 13-6-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 3-0-0 oc.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 7 except (jt=lb) 8=247, 6=247.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 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	Willow J (frame) - Base model
Willow J _	V02	Valley	1	1	Job Reference (optional)



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.25	TC	0.25	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.38	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPJ2014	Matrix-AS							Weight: 29 lb	FT = 20%

LUMBER			BRACING	
TOP CHORD	2x4 SP No.2		TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x4 SP No.2		BOT CHORD	Rigid ceiling directly applied.
OTHERS	2x4 SP No.2			

REACTIONS (lb/size) 1=56/9-6-12, (min. 0-1-8), 3=56/9-6-12, (min. 0-1-8),
4=519/9-6-12, (min. 0-1-8)
Max Horiz 1=56 (LC 11)
Max Uplift 1=-54 (LC 11), 3=-64 (LC 12), 4=-293 (LC 11)
Max Grav 1=81 (LC 24), 3=81 (LC 25), 4=519 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-396/264, 2-3=-396/264
BOT CHORD 1-4=-267/501, 3-4=-267/501
WEBS 2-4=-422/815

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 1, 64 lb uplift at joint 3 and 293 lb uplift at joint 4.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.
 - 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	Willow J (frame) - Base model
Willow J _	V03	Valley	1	1	Job Reference (optional)

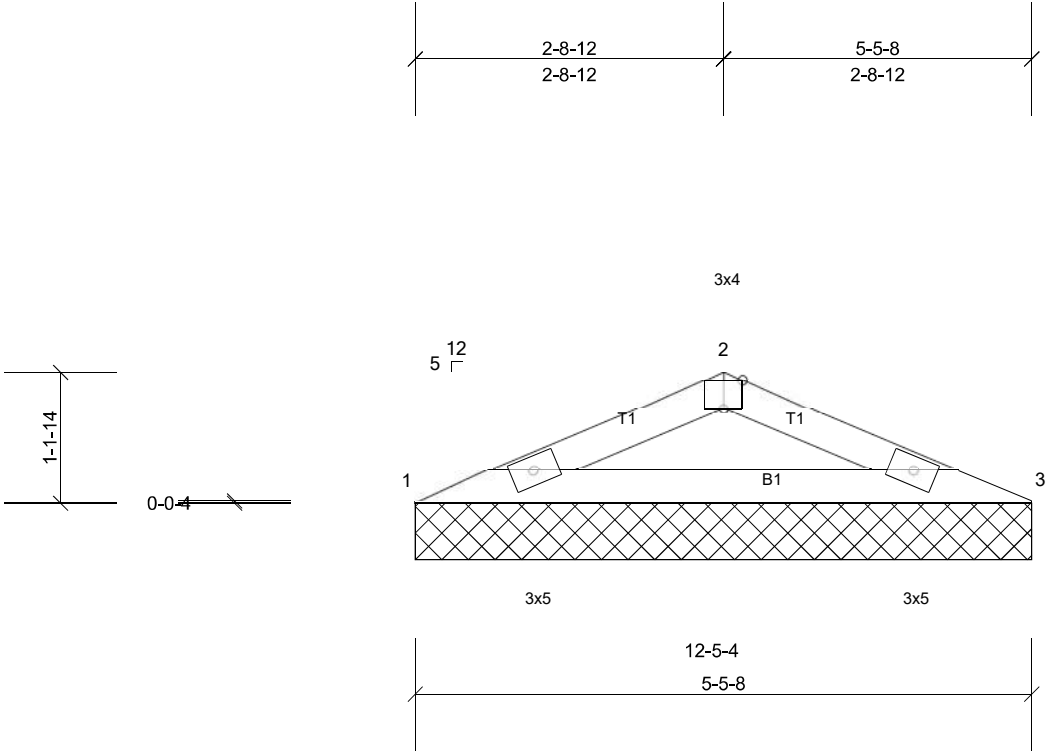


Plate Offsets (X, Y): [2:0-2-0,Edge]

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	0.38	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.17	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	-0.01	3	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-AS							Weight: 15 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied.

REACTIONS (lb/size) 1=180/5-5-8, (min. 0-1-8), 3=180/5-5-8, (min. 0-1-8)
Max Horiz 1=-31 (LC 12)
Max Uplift 1=-115 (LC 11), 3=-115 (LC 12)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-458/864, 2-3=-309/622
BOT CHORD 1-3=-759/411

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 115 lb uplift at joint 1 and 115 lb uplift at joint 3.
 - 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	Willow J (frame) - Base model
Willow J _	V11	Valley	1	1	Job Reference (optional)

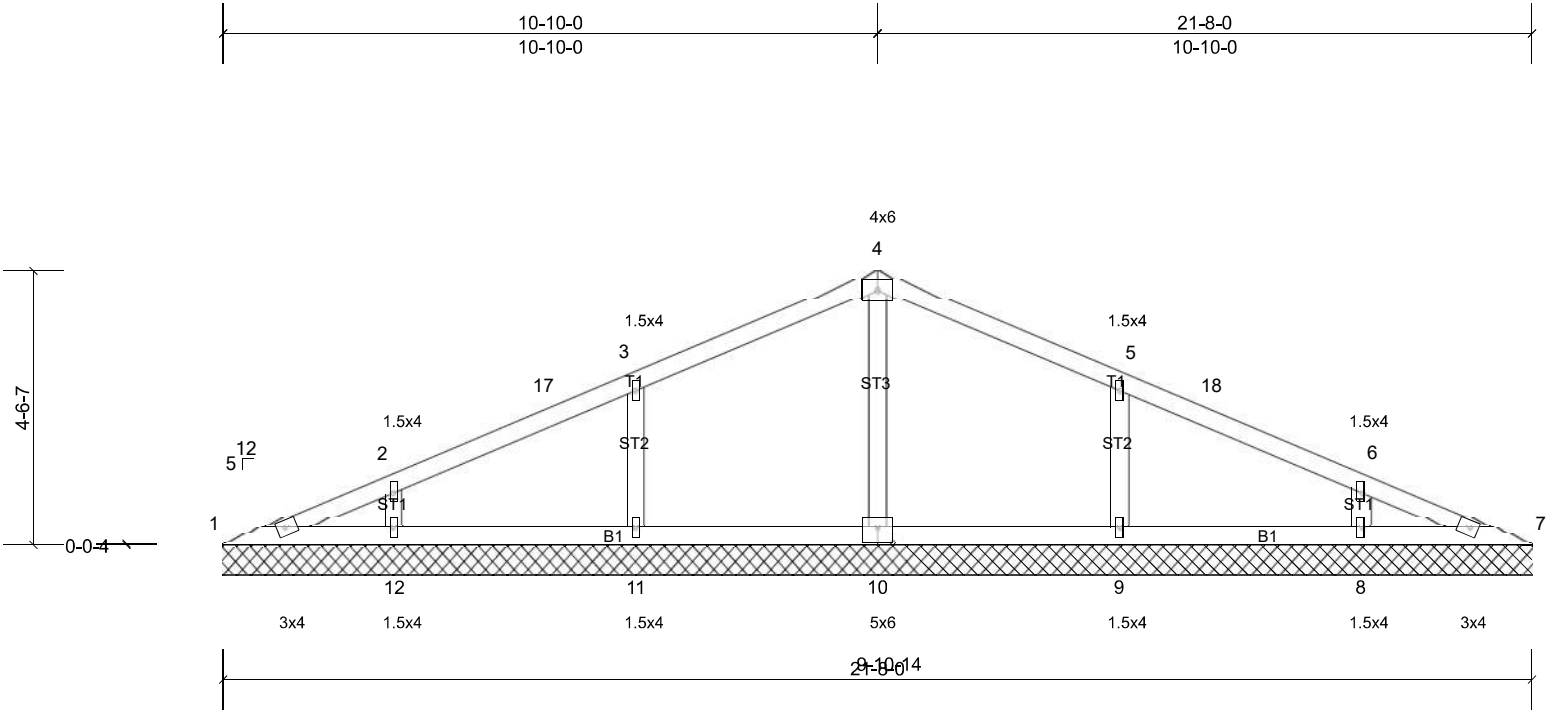


Plate Offsets (X, Y): [10:0-3-0,0-3-0]

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	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.08	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-AS							Weight: 80 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied.
OTHERS	2x4 SP No.2		

REACTIONS All bearings 21-8-0.

(lb) - Max Horiz 1=-134 (LC 16)

Max Uplift All uplift 100 (lb) or less at joint(s) 1, 7, 10 except 8=-217 (LC 12), 9=-277 (LC 12), 11=-277 (LC 11), 12=-219 (LC 11)

Max Grav All reactions 250 (lb) or less at joint(s) 1, 7, 8, 12 except 9=283 (LC 25), 10=252 (LC 1), 11=283 (LC 24)

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

WEBS 3-11=-203/364, 2-12=-169/341, 5-9=-203/364, 6-8=-169/341

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TC DL=4.2psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-10 to 5-6-10, Zone1 5-6-10 to 10-10-10, Zone2 10-10-10 to 18-10-10, Zone1 18-10-10 to 21-8-10 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - All plates are 1.5x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 4-0-0 oc.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 10 except (jt=lb) 11=277, 12=218, 9=277, 8=217.
 - 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	Willow J (frame) - Base model
Willow J _	V12	Valley	1	1	Job Reference (optional)

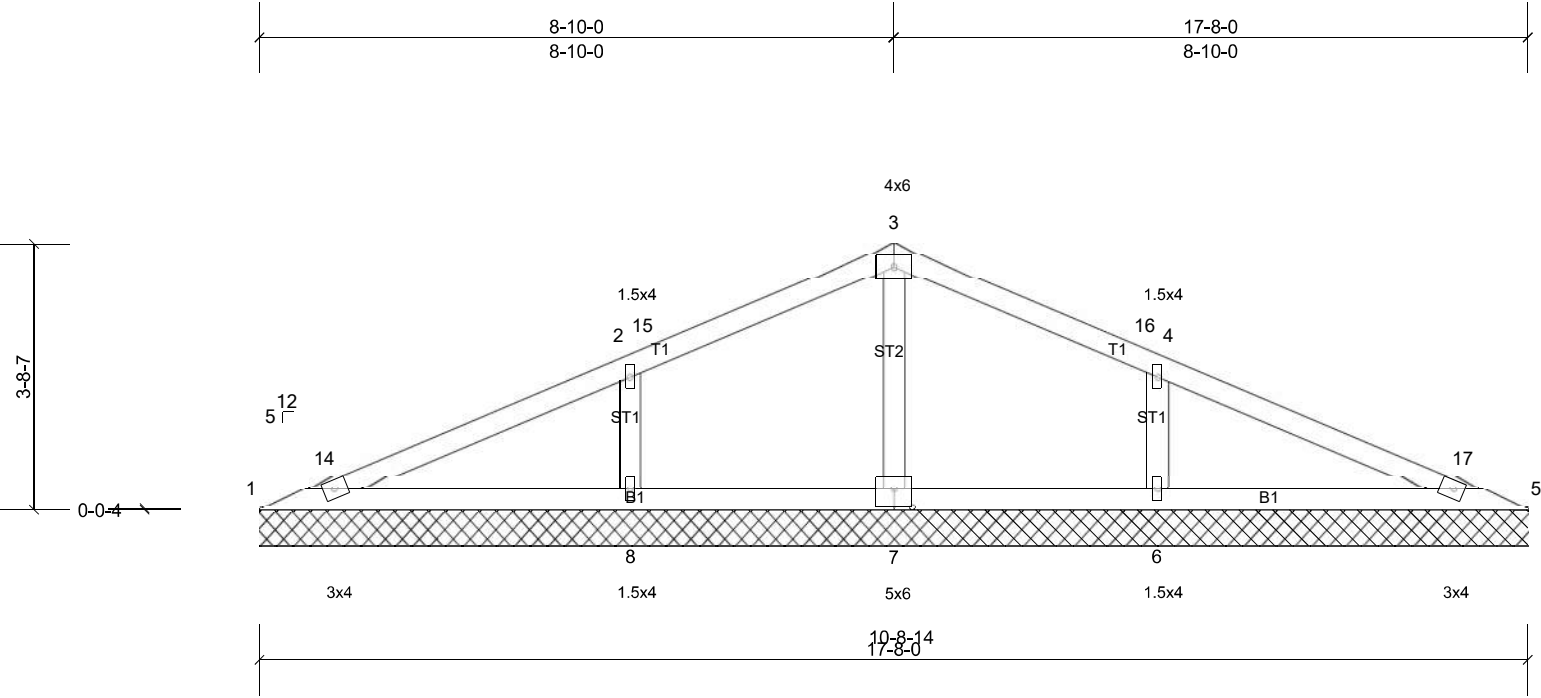


Plate Offsets (X, Y): [7:0-3-0,0-3-0]

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	0.27	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.26	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.01	5	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-AS							Weight: 62 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied.
OTHERS	2x4 SP No.2		

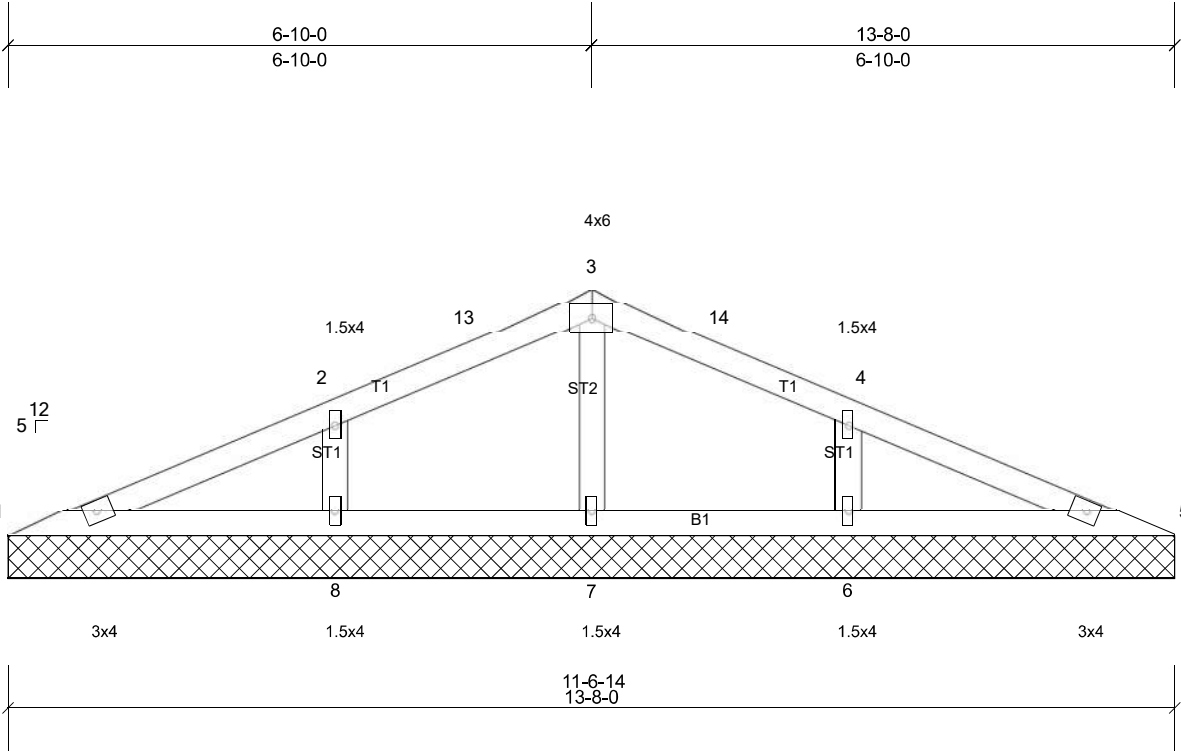
REACTIONS All bearings 17-8-0.
 (lb) - Max Horiz 1=-109 (LC 12)
 Max Uplift All uplift 100 (lb) or less at joint(s) 1 except 6=-331 (LC 12),
 7=-201 (LC 12), 8=-332 (LC 11)
 Max Grav All reactions 250 (lb) or less at joint(s) 1 except 6=350 (LC 25),
 7=486 (LC 1), 8=346 (LC 24)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-436/454, 2-15=-283/395, 3-15=-282/436, 3-16=-268/434, 4-16=-269/369, 4-5=-428/456, 5-17=-497/415,
 5-17=-499/413
 BOT CHORD 1-8=-403/488, 7-8=-403/488, 6-7=-403/488, 5-6=-403/488
 WEBS 3-7=-443/390, 2-8=-235/378, 4-6=-244/385

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCCL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-10 to 5-6-10, Zone1 5-6-10 to 8-10-10, Zone2 8-10-10 to 16-7-15, Zone1 16-7-15 to 17-8-10 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 3-8-0 oc.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 7=200, 8=331, 6=331.
 - 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	Willow J (frame) - Base model
Willow J _	V13	Valley	1	1	Job Reference (optional)



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	0.16	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	7.0	Lumber DOL	1.25	BC	0.16	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	5	n/a	n/a	Weight: 47 lb
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-AS							FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied.
OTHERS	2x4 SP No.2		

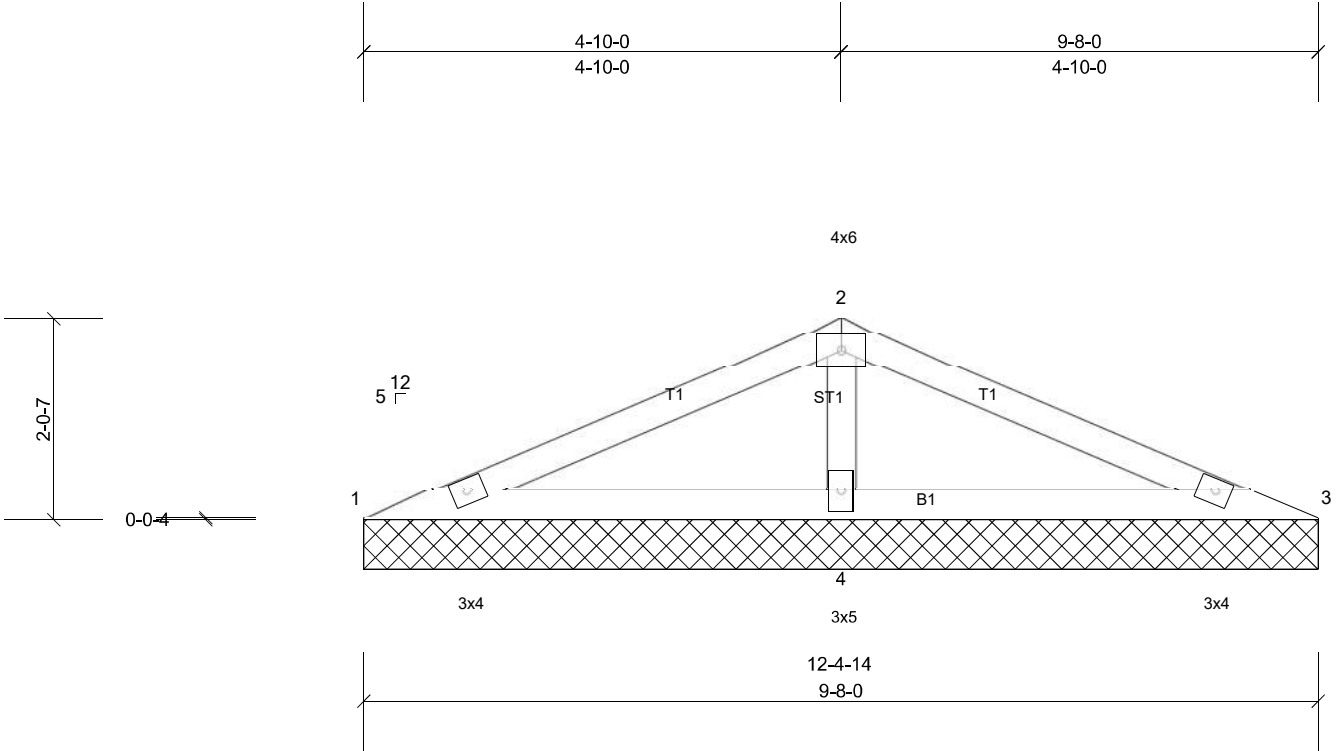
REACTIONS All bearings 13-8-0.
 (lb) - Max Horiz 1=-83 (LC 16)
 Max Uplift All uplift 100 (lb) or less at joint(s) 1, 5, 7 except 6=-251 (LC 12), 8=-252 (LC 11)
 Max Grav All reactions 250 (lb) or less at joint(s) 1, 5, 7 except 6=267 (LC 25), 8=267 (LC 24)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-194/380, 4-6=-194/400

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-10 to 5-6-10, Zone1 5-6-10 to 6-10-10, Zone3 6-10-10 to 13-8-10 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 3-0-0 oc.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 7 except (jt=lb) 8=252, 6=251.
 - 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	Willow J (frame) - Base model
Willow J _	V14	Valley	1	1	Job Reference (optional)



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.25	TC	0.25	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.39	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPJ2014	Matrix-AS							Weight: 30 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied.
OTHERS	2x4 SP No.2		

REACTIONS	(lb/size)	1=57/9-8-0, (min. 0-1-8), 3=57/9-8-0, (min. 0-1-8), 4=525/9-8-0, (min. 0-1-8)
	Max Horiz	1=58 (LC 11)
	Max Uplift	1=-54 (LC 11), 3=-65 (LC 12), 4=-297 (LC 11)
	Max Grav	1=82 (LC 24), 3=82 (LC 25), 4=525 (LC 1)
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-2=-386/262, 2-3=-386/262	
BOT CHORD	1-4=-264/493, 3-4=-264/493	
WEBS	2-4=-423/814	

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 1, 65 lb uplift at joint 3 and 297 lb uplift at joint 4.
 - 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	Willow J (frame) - Base model
Willow J _	V15	Valley	1	1	Job Reference (optional)

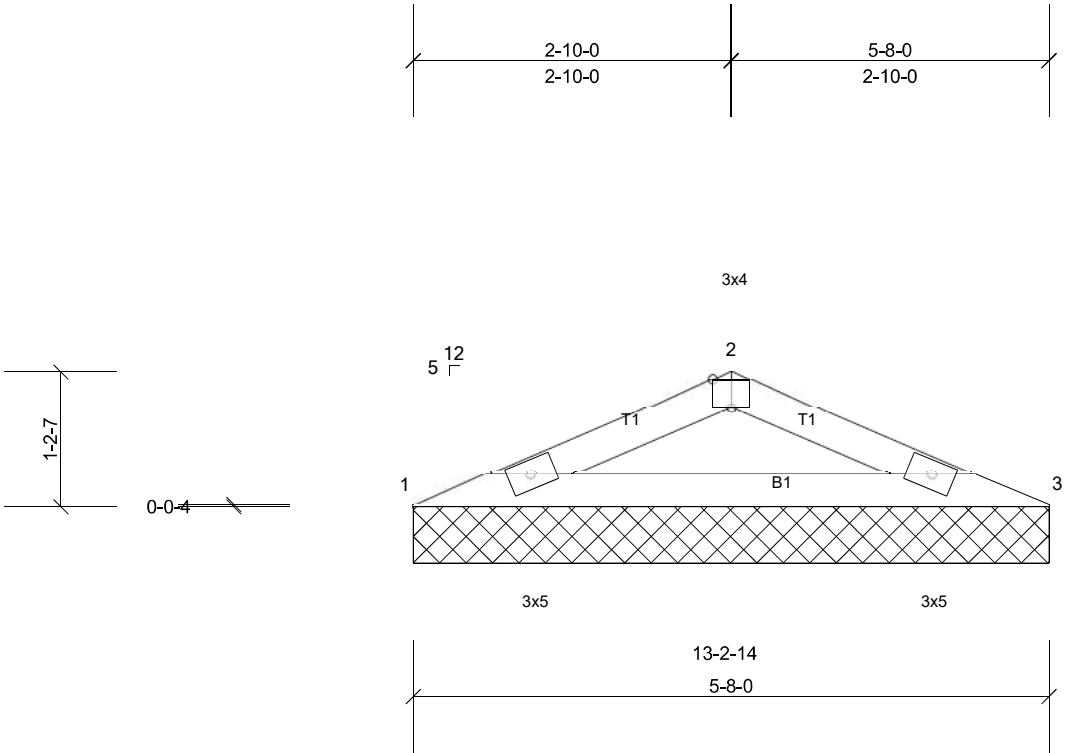


Plate Offsets (X, Y): [2:0-2-0,Edge]

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	0.40	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.18	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	-0.01	3	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-AS							Weight: 15 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied.

REACTIONS (lb/size) 1=187/5-8-0, (min. 0-1-8), 3=187/5-8-0, (min. 0-1-8)
 Max Horiz 1=32 (LC 11)
 Max Uplift 1=-119 (LC 11), 3=-119 (LC 12)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-478/895, 2-3=-316/634
 BOT CHORD 1-3=-789/429

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 119 lb uplift at joint 1 and 119 lb uplift at joint 3.
 - 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