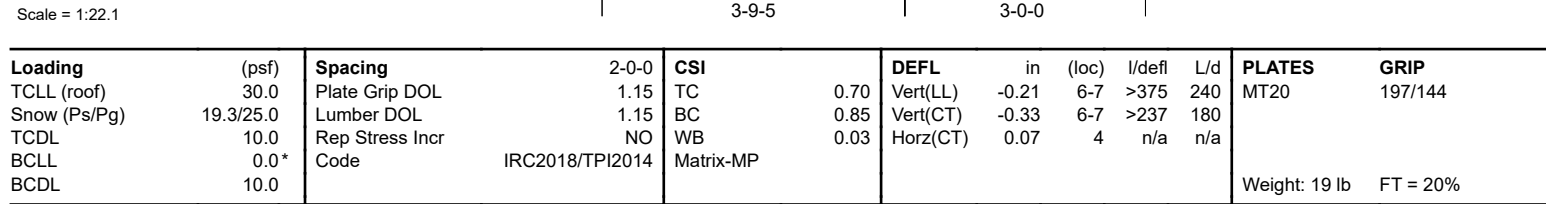


Millard Lumber, Inc., Waverly NE 68462 Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Mon Jun 30 14:49:28 Page: ID: xHSNHbgNvYXApU8fZG7s89z5kMN-vWx41KwLP1h0GpmDukfFCw5?bJ3kFwDq0hknpZ13ls



REACTIONS (lb/size) 4=270/ Mechanical, (min. 0-1-8),
5=178/ Mechanical, (min. 0-1-8),
7=380/0-7-6, (min. 0-1-8)
Max Horiz 7=94 (LC 16)
Max Uplift 4=-58 (LC 16), 7=-52 (LC 16)
Max Grav 4=286 (LC 21), 5=198 (LC 21),
7=466 (LC 2)

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

TOP CHORD 2-7=-335/179

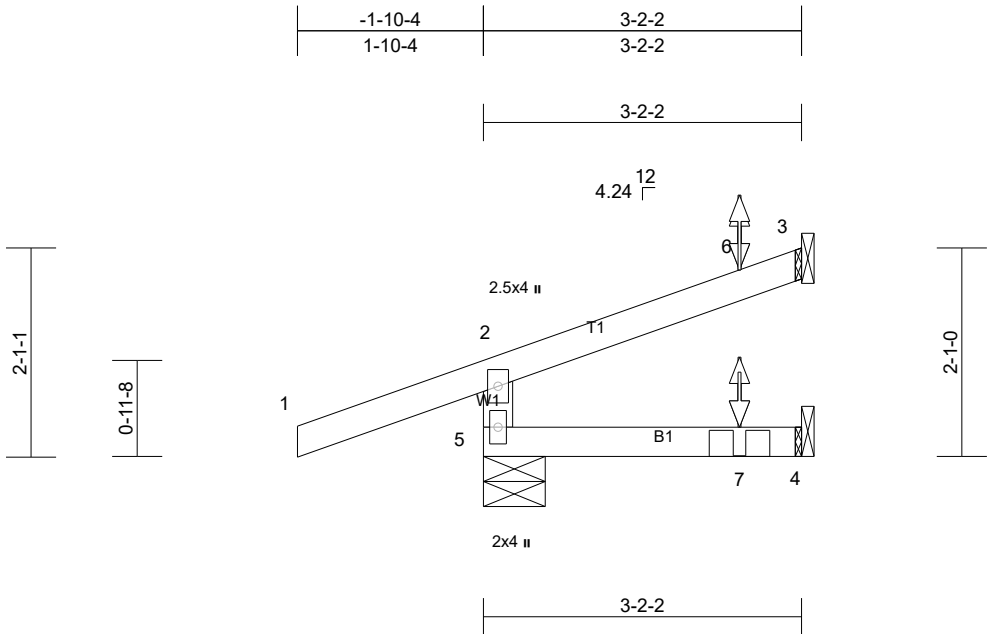
JOINT STRESS INDEX
2 = 0.53, 3 = 0.11, 6 = 0.12, 7 = 0.73 and 7 = 0.73

- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with any other live loads.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 7 and 58 lb uplift at joint 4.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Use Simpson Strong-Tie TJC37 (4 nail, 30-90) or equivalent at 2-1-1 from the left end to connect truss(es) J02 (1 ply 2x4 SPF) to front face of bottom chord, skewed 45.0 deg.to the left, sloping 0.0 deg. down.
- 13) Use Simpson Strong-Tie TJC37 (4 nail, 30-90) or equivalent at 4-11-0 from the left end to connect truss (es) J01 (1 ply 2x4 SPF) to front face of bottom chord, skewed 45.0 deg.to the left, sloping 0.0 deg. down.
- 14) Use Simpson Strong-Tie TJC37 (4 nail,90-150) or equivalent spaced at 2-9-15 oc max. starting at 3-4-4 from the left end to 6-2-3 to connect truss(es) J03 (1 ply 2x4 SPF), J04 (1 ply 2x4 SPF) to back face of bottom chord.
- 15) Fill all nail holes where hanger is in contact with lumber.
- 16) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 108 lb down and 37 lb up at 2-1-1, 121 lb down and 50 lb up at 3-4-4, and 138 lb down and 60 lb up at 4-11-0, and 136 lb down and 55 lb up at 6-2-3 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-59, 2-4=-59, 5-7=-20
Concentrated Loads (lb)
Vert: 10=-1, 11=-43, 12=-109, 13=-4, 14=-10, 15=-23, 16=-47

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust)
 Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft;
 B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed;
 MWFRS (directional) and C-C Corner (3) -1-1-13 to
 3-1-2, Exterior(2R) 3-1-2 to 6-8-9 zone; cantilever left
 and right exposed ; end vertical left and right exposed;-
 C for members and forces & MWFRS for reactions
 shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15
 Plate DOL=1.15); Pg=25.0 psf; Ps=19.2 psf (Lum
 DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C;
 Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Roof design snow load has been reduced to account for
 slope.
- 5) Unbalanced snow loads have been considered for this
 design.

Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	CG03	Diagonal Hip Girder	1	1	Job Reference (optional)



Scale = 1:16.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	0.00	4-5	>999	240	MT20	197/144
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.01	4-5	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MR								
BCDL	10.0											
											Weight: 10 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-2-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS	(lb/size)	3=57/ Mechanical, (min. 0-1-8), 4=21/ Mechanical, (min. 0-1-8), 5=273/0-7-6, (min. 0-1-8)
	Max Horiz	5=75 (LC 16)
	Max Uplift	3=-20 (LC 16), 5=-79 (LC 16)
	Max Grav	3=82 (LC 21), 4=52 (LC 7), 5=388 (LC 21)

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-5=-345/244

JOINT STRESS INDEX
2 = 0.84 and 5 = 0.63

- NOTES
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) -1-10-4 to 2-4-10, Exterior(2R) 2-4-10 to 3-1-6 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps=19.2 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Roof design snow load has been reduced to account for slope.
 - Unbalanced snow loads have been considered for this design.

- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 79 lb uplift at joint 5 and 20 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Use Simpson Strong-Tie TJC37 (4 nail,90-150) or equivalent at 2-6-11 from the left end to connect truss (es) J12 (1 ply 2x4 SPF) to back face of bottom chord, skewed 45.0 deg.to the right, sloping 0.0 deg. down.
- Fill all nail holes where hanger is in contact with lumber.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 87 lb down and 30 lb up at 2-6-11 on top chord. The design/ selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S)	Standard
1)	Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
	Uniform Loads (lb/ft)
	Vert: 1-2=-59, 2-3=-59, 4-5=-20
	Concentrated Loads (lb)
	Vert: 7=-2 (B)

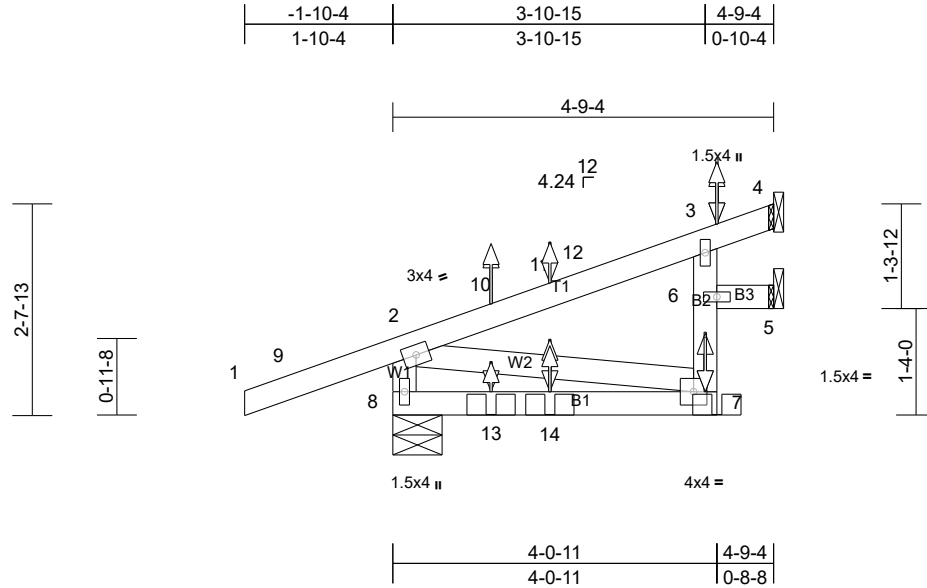
Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	CG04	Diagonal Hip Girder	2	1	Job Reference (optional)

Millard Lumber, Inc., Waverly NE 68462

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Scale = 1:21.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	-0.04	7	>999	240	MT20	197/144
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.05	7	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.03	Horz(CT)	0.02	5	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0											
											Weight: 20 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-9-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 4=170/ Mechanical, (min. 0-1-8), 5=8/ Mechanical, (min. 0-1-8), 8=295/0-7-6, (min. 0-1-8)
Max Horiz 8=91 (LC 16)
Max Uplift 4=-38 (LC 16), 8=-109 (LC 16)
Max Grav 4=206 (LC 21), 5=16 (LC 7), 8=399 (LC 21)

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

TOP CHORD 2-8=-362/283

JOINT STRESS INDEX

2 = 0.24, 3 = 0.10, 6 = 0.02, 7 = 0.08 and 8 = 0.23

NOTES

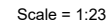
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) -1-10-4 to 2-4-10, Exterior(2R) 2-4-10 to 4-8-8 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps=19.2 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.

- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 109 lb uplift at joint 8 and 38 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Use Simpson Strong-Tie TJC37 (4 nail, 30-90) or equivalent at 1-11-10 from the left end to connect truss (es) J14 (1 ply 2x4 SPF) to front face of bottom chord, skewed 45.0 deg.to the left, sloping 0.0 deg. down.
- Use Simpson Strong-Tie TJC37 (4 nail,90-150) or equivalent spaced at 2-9-15 oc max. starting at 1-2-12 from the left end to 4-0-11 to connect truss(es) J15 (1 ply 2x4 SPF), J16 (1 ply 2x4 SPF) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 108 lb down and 186 lb up at 1-2-12, and 122 lb down and 96 lb up at 1-11-10, and 107 lb down and 44 lb up at 4-0-11 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

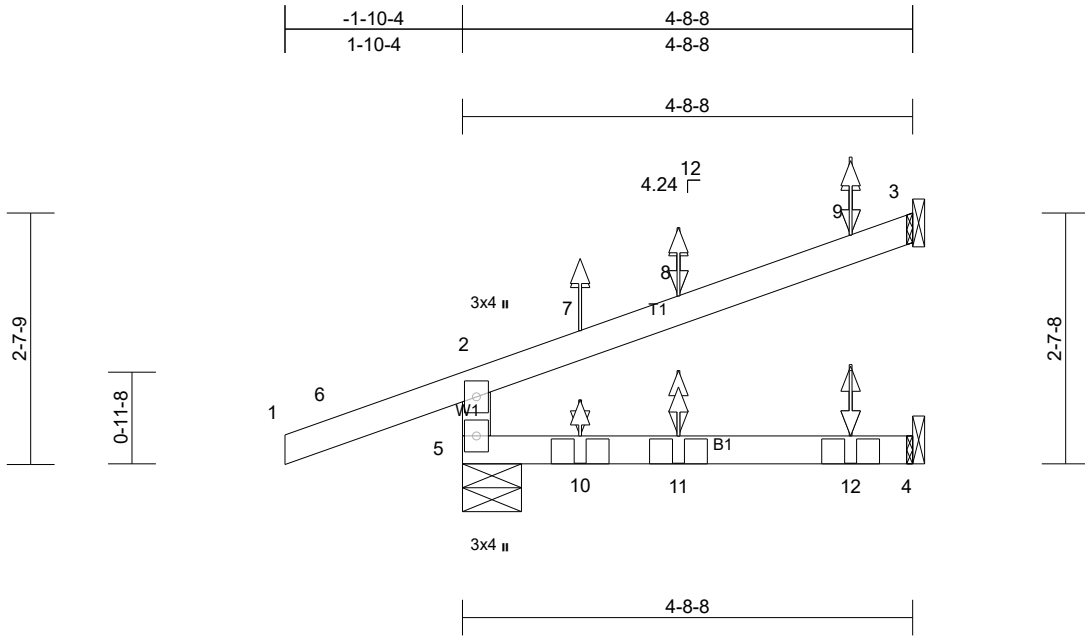
- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-59, 2-4=-59, 7-8=-20, 5-6=-20
Concentrated Loads (lb)
Vert: 3=-29 (B), 7=-15 (B), 10=44 (B), 14=2 (F)

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[illegible]

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-59, 2-4=-59, 5-7=-20
Concentrated Loads (lb)
Vert: 8=44 (B), 10=-10 (B), 11=-41 (F), 12=-124 (B), 14=0 (F), 15=-11 (B), 16=-21 (F), 17=-54 (B)

Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	CG06	Diagonal Hip Girder	1	1	Job Reference (optional)



Scale = 1:18.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	0.02	4-5	>999	240	MT20	197/144
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.04	4-5	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.02	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 14 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-8-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 3=126/ Mechanical, (min. 0-1-8), 4=54/ Mechanical, (min. 0-1-8), 5=292/0-7-6, (min. 0-1-8)
Max Horiz 5=90 (LC 16)
Max Uplift 3=-49 (LC 16), 5=-105 (LC 16)
Max Grav 3=155 (LC 21), 4=86 (LC 7), 5=399 (LC 21)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-351/303

JOINT STRESS INDEX
2 = 0.93 and 5 = 0.87

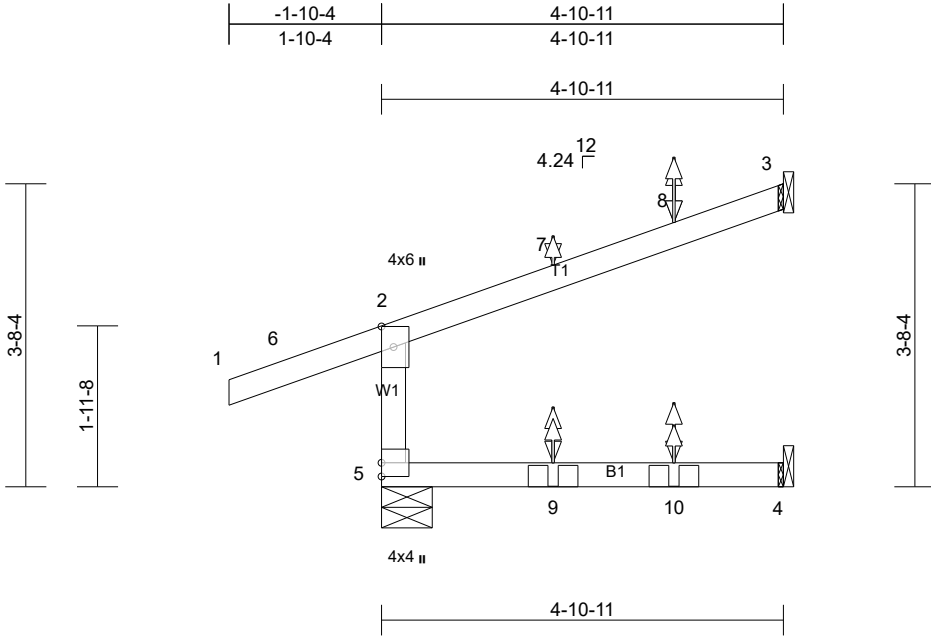
- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) -1-10-4 to 2-4-10, Exterior(2R) 2-4-10 to 4-7-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps=19.2 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Roof design snow load has been reduced to account for slope.
 - Unbalanced snow loads have been considered for this design.

- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 105 lb uplift at joint 5 and 49 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Use Simpson Strong-Tie TJC37 (4 nail, 30-90) or equivalent spaced at 2-9-15 oc max. starting at 1-2-12 from the left end to 4-0-11 to connect truss(es) J15 (1 ply 2x4 SPF), J16 (1 ply 2x4 SPF) to front face of bottom chord.
- Use Simpson Strong-Tie TJC37 (4 nail,90-150) or equivalent at 2-3-2 from the left end to connect truss(es) J19 (1 ply 2x4 SPF) to back face of bottom chord, skewed 45.0 deg.to the right, sloping 0.0 deg. down.
- Fill all nail holes where hanger is in contact with lumber.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 108 lb down and 186 lb up at 1-2-12, and 115 lb down and 34 lb up at 2-3-2, and 105 lb down and 43 lb up at 4-0-11 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-59, 2-3=-59, 4-5=-20
Concentrated Loads (lb)
Vert: 7=44 (F), 9=-31 (F), 11=0 (B), 12=-16 (F)

Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	CG07	Diagonal Hip Girder	1	1	Job Reference (optional)



Scale = 1:22.4

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	0.07	4-5	>780	240	MT20
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.06	4-5	>936	180	197/144
TCDL	10.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.13	3	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MR							
BCDL	10.0										
										Weight: 16 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-10-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 3=112/ Mechanical, (min. 0-1-8), 4=45/ Mechanical, (min. 0-1-8), 5=325/0-7-6, (min. 0-1-8)
Max Horiz 5=115 (LC 16)
Max Uplift 3=-61 (LC 16), 4=-26 (LC 16), 5=-89 (LC 16)
Max Grav 3=168 (LC 21), 4=87 (LC 7), 5=431 (LC 21)

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

TOP CHORD 2-5=-388/267

JOINT STRESS INDEX
2 = 0.92 and 5 = 0.98

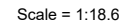
- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) -1-10-4 to 2-4-10, Exterior(2R) 2-4-10 to 4-9-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps=19.2 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 89 lb uplift at joint 5, 61 lb uplift at joint 3 and 26 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Use Simpson Strong-Tie TJC37 (4 nail, 30-90) or equivalent at 2-1-1 from the left end to connect truss(es) J27 (1 ply 2x4 SPF) to front face of bottom chord, skewed 45.0 deg.to the left, sloping 0.0 deg. down.
- Use Simpson Strong-Tie TJC37 (4 nail,90-150) or equivalent at 3-6-11 from the left end to connect truss (es) J28 (1 ply 2x4 SPF) to back face of bottom chord, skewed 45.0 deg.to the right, sloping 0.0 deg. down.
- Fill all nail holes where hanger is in contact with lumber.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 128 lb down and 95 lb up at 2-1-1, and 127 lb down and 59 lb up at 3-6-11 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

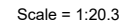
- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-59, 2-3=-59, 4-5=-20
Concentrated Loads (lb)
Vert: 9=1, 10=1

Millard Lumber, Inc., Waverly NE 68462 Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Mon Jun 30 14:49:34 Page: ID:VsKRRlAImaxbvz 1Jhz5kl-FstjVj0kIAZ0cupZoiHu Pthb8cXO5PsdGxfZUz13l

[illegible]

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-4=-59, 5-6=-20
Concentrated Loads (lb)
Vert: 13=2

Millard Lumber, Inc., Waverly NE 68462 Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Mon Jun 30 14:49:34 Page: ID:Mbc4LpfbCFm97K4zkJsaaCz5kMb-FstjVl0klAZ0cupZoiHu PtGi8diO5PsdGxfZUz13l



LOAD CASE(S) Standard
 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (lb/ft)
 Vert: 1-2=-59, 2-3=-59, 4-5=-20
 Concentrated Loads (lb)
 Vert: 7=1 (B)

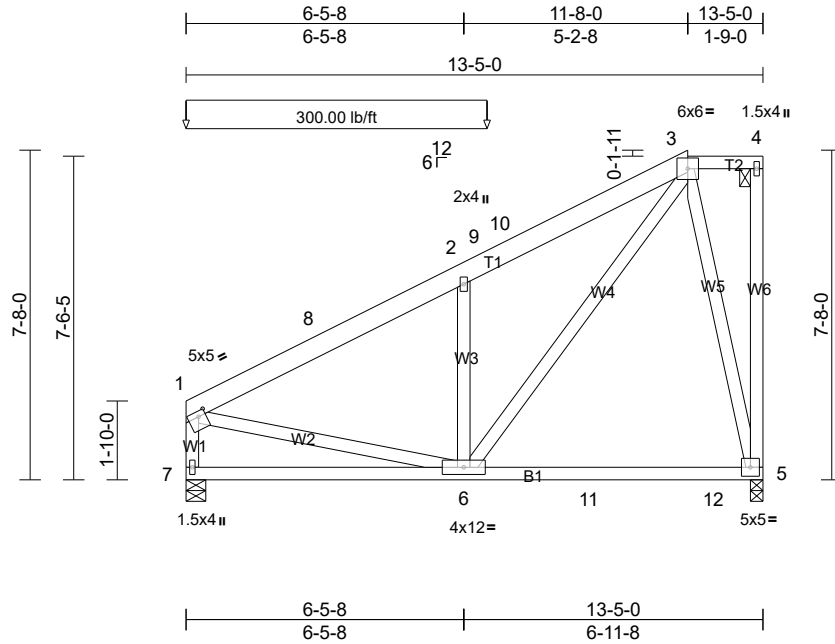
Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	G01	Half Hip Girder	1	3	Job Reference (optional)

Millard Lumber, Inc., Waverly NE 68462

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Scale = 1:49.3

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	-0.03	5-6	>999	240	MT20
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.06	5-6	>999	180	197/144
TCDL	10.0	Rep Stress Incr	NO	WB	0.18	Horz(CT)	0.00	5	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS							
BCDL	10.0										
Weight: 240 lb FT = 20%											

LUMBER
TOP CHORD 2x6 SPF No.2 *Except* T2:2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 5=1052/0-3-8, (min. 0-1-8), 7=2034/0-5-8, (min. 0-1-8)
Max Horiz 7=249 (LC 13)
Max Grav 5=1309 (LC 39), 7=2294 (LC 35)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-2263/0, 2-8=-1754/0, 2-9=-2008/0, 9-10=-1917/0, 3-10=-1895/0, 1-7=-2231/0
BOT CHORD 6-7=-144/622, 6-11=-39/294, 11-12=-39/294, 5-12=-39/294
WEBS 3-5=-1148/0, 1-6=0/1266, 2-6=-1955/0, 3-6=0/2307

JOINT STRESS INDEX
1 = 0.77, 2 = 0.31, 3 = 0.64, 4 = 0.63, 5 = 0.15, 6 = 0.52 and 7 = 0.66

NOTES

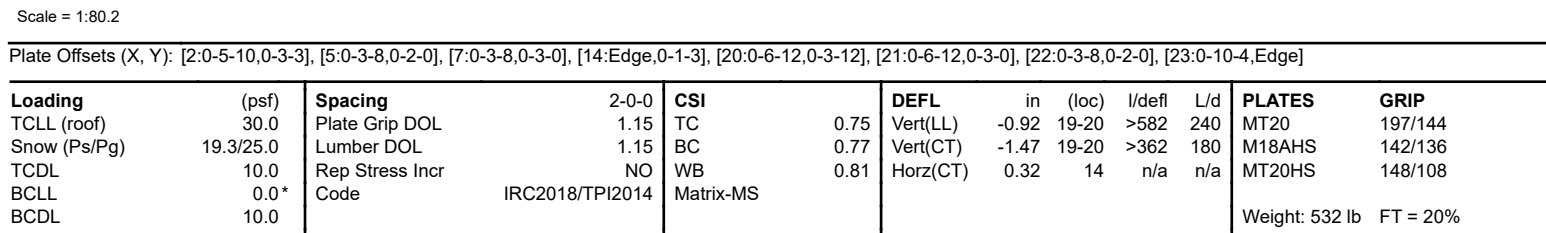
- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered 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 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 11-8-0, Exterior(2E) 11-8-0 to 13-3-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- **TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps= varies (19.2 psf Lum DOL=1.15 Plate DOL=1.15) see load cases; Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-9=-359, 3-9=-59, 3-4=-59, 5-7=-20

Millard Lumber, Inc., Waverly NE 68462 Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Mon Jun 30 14:49:37 Page: ID:pDdSoPuY17DAIXR5tivuHGz36n3-j2Q5i30MWUhtD2QIMQo7XcQMnXpt7M??swd5wz13k



Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	G02	Hip Girder	1	2	Job Reference (optional)

- 18) Use Simpson Strong-Tie TJC37 (4 nail, 30-90) or equivalent at 4-4-0 from the left end to connect truss(es) CG02 (1 ply 2x4 SPF) to front face of bottom chord, skewed 45.0 deg.to the left, sloping 0.0 deg. down.
- 19) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss) or equivalent spaced at 4-0-0 oc max. starting at 5-11-8 from the left end to 37-11-8 to connect truss(es) J07 (1 ply 2x4 SPF), J06 (1 ply 2x4 SPF), J05 (1 ply 2x4 SPF) to front face of bottom chord.
- 20) Use Simpson Strong-Tie TJC37 (4 nail,90-150) or equivalent at 39-7-0 from the left end to connect truss (es) CG01 (1 ply 2x4 SPF) to front face of bottom chord, skewed 45.0 deg.to the right, sloping 0.0 deg. down.
- 21) Fill all nail holes where hanger is in contact with lumber.
- 22) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 135 lb down and 55 lb up at 4-4-0, 85 lb down and 41 lb up at 5-11-8, 85 lb down and 41 lb up at 7-11-8, 85 lb down and 41 lb up at 9-11-8, 85 lb down and 41 lb up at 11-11-8, 130 lb down and 58 lb up at 13-11-8, 130 lb down and 58 lb up at 15-11-8, 130 lb down and 58 lb up at 17-11-8, 130 lb down and 58 lb up at 19-11-8, 130 lb down and 58 lb up at 21-11-8, 130 lb down and 58 lb up at 23-11-8, 130 lb down and 58 lb up at 25-11-8, 130 lb down and 58 lb up at 27-11-8, 130 lb down and 58 lb up at 29-11-8, 130 lb down and 58 lb up at 31-11-8, 156 lb down and 62 lb up at 33-11-8, 156 lb down and 62 lb up at 35-11-8, and 156 lb down and 62 lb up at 37-11-8, and 242 lb down and 74 lb up at 39-7-0 on top chord, and 37 lb down at 14-1-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (lb/ft)
 Vert: 1-4=-59, 4-13=-59, 13-15=-59, 23-26=-20, 21-23=-20, 20-21=-20, 20-29=-20
 Concentrated Loads (lb)
 Vert: 4=-97, 21=-87, 20=-29, 16=-170, 13=-204, 6=-58, 22=-87, 5=-58, 32=-58, 33=-58, 36=-103, 38=-103, 40=-103, 41=-103, 42=-103, 43=-103, 44=-103, 45=-103, 47=-103, 48=-103, 49=-129, 50=-129, 51=-129, 53=-158, 54=-87, 55=-87, 56=-29, 57=-29, 58=-29, 59=-29, 60=-29, 61=-29, 62=-29, 63=-29, 64=-29, 65=-43, 66=-43, 67=-43

Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	G03	Roof Special Girder	1	1	Job Reference (optional)

Vert: 1-3=-59, 3-5=-59, 5-7=-59, 7-9=-59, 9-14=-59,
27-31=-20
Concentrated Loads (lb)
Vert: 3=-7 (B), 24=0 (B), 35=-4 (B), 36=-4 (B), 47=-6
(B), 48=-6 (B)

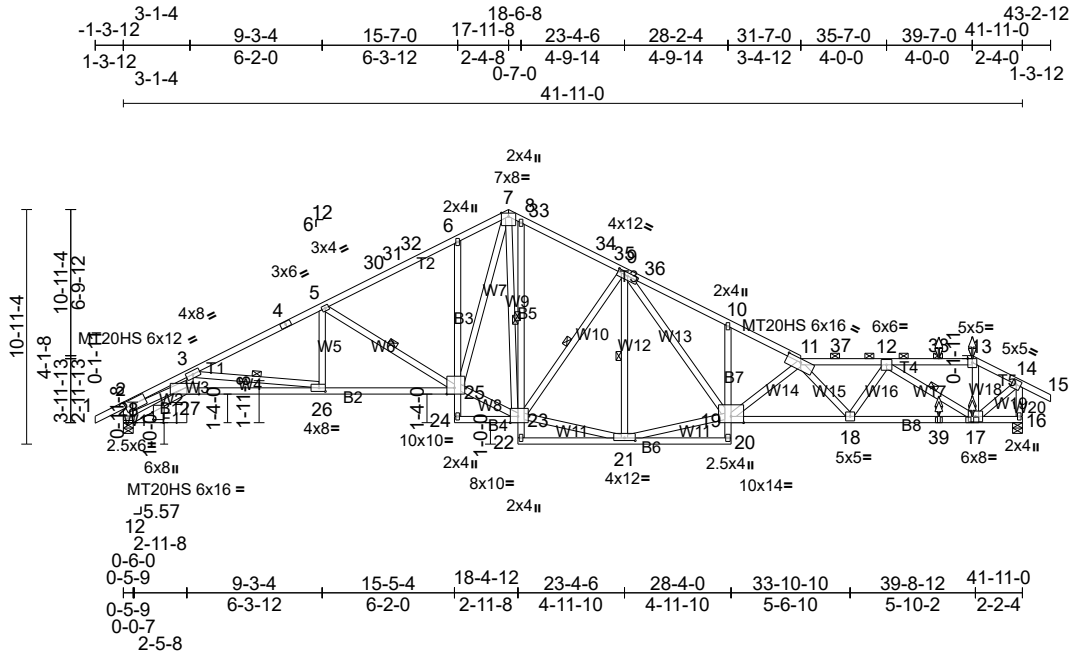
Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	G04	Roof Special Girder	1	1	Job Reference (optional)

Millard Lumber, Inc., Waverly NE 68462

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Scale = 1:85.2

Plate Offsets (X, Y): [2:0-4-10,0-3-0], [9:0-5-15,0-1-12], [11:0-8-4,0-2-0], [21:0-6-0,0-1-8], [23:0-4-4,Edge], [25:0-4-4,Edge], [26:0-3-8,0-2-0], [27:0-6-12,Edge], [28:0-3-4,0-1-4], [28:0-4-0,0-0-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	Vert(LL)	-0.46	10-19	>999	240	MT20	197/144
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	Vert(CT)	-0.77	18-19	>647	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	NO	WB	Horz(CT)	0.44	16	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS							
BCDL	10.0									Weight: 268 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF No.2 *Except* T2,T1:2x4 SP 2400F 2.0E
BOT CHORD 2x4 SPF No.2 *Except* B2,B8:2x4 SP 2400F 2.0E, F1:2x12 HF No.2
WEBS 2x4 SPF No.2 *Except* W1:2x6 SP 2400F 2.0E, W2:2x4 SP 2400F 2.0E

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-1-15 oc purlins, except end verticals, and 2-0-0 oc purlins (2-1-0 max.): 11-13.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 16-17.

1 Row at midpt 8-23

WEBS 1 Row at midpt 7-23, 9-23, 9-21, 12-17, 3-26, 5-25

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 16=1723/0-5-8, (min. 0-1-13), 28=1721/0-5-8, (min. 0-2-14)
Max Horiz 28=244 (LC 15)
Max Uplift 16=-269 (LC 16), 28=-185 (LC 16)
Max Grav 16=2186 (LC 2), 28=2200 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-28=-2215/251, 2-3=-7065/742, 3-4=-4316/427, 4-5=-4139/442, 5-30=-3297/382, 30-31=-3168/394, 31-32=-3167/395, 6-32=-3136/406, 6-7=-3192/485, 7-8=-2535/427, 8-33=-2464/395, 33-34=-2538/393, 34-35=-2621/376, 9-35=-2635/374, 9-36=-4570/599, 10-36=-4727/588, 10-11=-4769/535, 11-37=-4823/555, 12-37=-4825/554, 12-38=-1471/247, 13-38=-1468/247, 13-14=-1693/263, 14-16=-2174/389

BOT CHORD 27-28=-160/404, 26-27=-666/6003, 25-26=-349/3812, 6-25=-405/163, 10-19=-328/104, 18-19=-620/5751, 18-39=-486/4045, 17-39=-486/4045
WEBS 2-27=-614/6122, 3-27=-105/1363, 23-25=-137/2379, 7-25=-262/2073, 7-23=-234/630, 21-23=-230/2648, 9-23=-847/170, 9-21=-960/157, 19-21=-207/2538, 9-19=-314/2549, 11-19=-2000/270, 14-17=-266/1952, 13-17=-69/499, 12-18=-83/1458, 11-18=-1446/200, 12-17=-3073/331, 3-26=-2212/321, 5-26=0/495, 5-25=-1154/155

JOINT STRESS INDEX

2 = 0.85, 3 = 0.65, 4 = 0.51, 5 = 0.66, 6 = 0.61, 7 = 0.69, 8 = 0.38, 9 = 0.80, 10 = 0.44, 11 = 0.96, 12 = 0.93, 13 = 0.31, 14 = 0.80, 16 = 0.69, 17 = 0.84, 18 = 0.65, 19 = 0.98, 20 = 0.56, 21 = 0.80, 22 = 0.72, 23 = 0.76, 24 = 0.59, 25 = 0.74, 26 = 0.75, 27 = 1.00, 28 = 0.61 and 28 = 0.13

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=42ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-3-12 to 3-1-4, Interior (1) 3-1-4 to 17-11-8, Exterior(2R) 17-11-8 to 22-1-13, Interior (1) 22-1-13 to 39-7-0, Exterior(2E) 39-7-0 to 43-2-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- **TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps= varies (19.2 psf Lum DOL=1.15 Plate DOL=1.15) see load cases; Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.

- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 28 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 185 lb uplift at joint 28 and 269 lb uplift at joint 16.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Use Simpson Strong-Tie LUS24 (4-10dx1 1/2 Girder, 2-10d Truss, Single Ply Girder) or equivalent at 38-0-4 from the left end to connect truss(es) J31 (1 ply 2x4 SPF) to front face of bottom chord.
- Use Simpson Strong-Tie TJC37 (4 nail,90-150) or equivalent at 39-7-0 from the left end to connect truss (es) CG09 (1 ply 2x4 SPF) to front face of bottom chord, skewed 45.0 deg.to the right, sloping 0.0 deg. down.
- Fill all nail holes where hanger is in contact with lumber.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 66 lb down and 51 lb up at 38-0-4, and 86 lb down and 58 lb up at 39-7-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

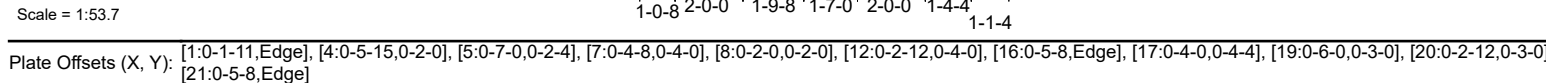
LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)

Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	G04	Roof Special Girder	1	1	Job Reference (optional)

Vert: 1-2=-59, 2-7=-59, 7-11=-59, 11-13=-59,
13-14=-59, 14-15=-59, 27-28=-20, 25-27=-20,
23-24=-20, 20-22=-20, 16-19=-20
Concentrated Loads (lb)
Vert: 13=-7 (F), 17=2 (F), 38=-3 (F), 39=1 (F)

Millard Lumber, Inc., Waverly NE 68462 Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Mon Jun 30 14:49:40 Page: ID:55 hlpVn FI?ULqdUcbFWIz5i11-30E mm4VL0KAKpGI9zOIeG7KQYaPoeyk0CO n8z13lf

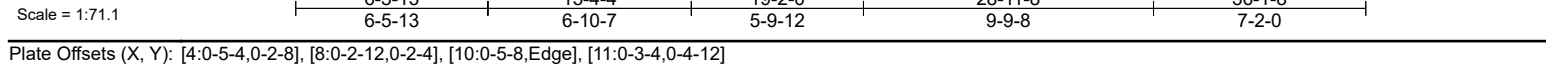


LUMBER		1 = 0.23, 2 = 0.56, 3 = 0.79, 4 = 0.77, 5 = 0.91, 6 = 0.43, 7 = 0.23, 7 = 0.79, 8 = 0.78, 9 = 0.76, 10 = 0.32, 11 = 0.17, 12 = 0.55, 13 = 0.66, 14 = 0.79, 15 = 0.72, 16 = 0.90, 17 = 0.62, 18 = 0.68, 19 = 0.76, 20 = 0.67, 21 = 0.81 and 22 = 0.57	7) All plates are MT20 plates unless otherwise indicated.
TOP CHORD	2x4 SP 2400F 2.0E		10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
BOT CHORD	2x6 SPF No.2 *Except* B2,B6:2x4 SP 2400F 2.0E, B4,B8,B10:2x4 SPF No.2, B7:2x6 SP 2400F 2.0E		11) * 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.
WEBS	2x4 SPF No.2		12) Refer to girder(s) for truss to truss connections.
BRACING		NOTES	13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 437 lb uplift at joint 22 and 350 lb uplift at joint 10.
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-9.	1) 4-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. Bottom chords connected as follows: 2x6 - 3 rows staggered at 0-4-0 oc, 2x4 - 2 rows staggered at 0-4-0 oc. Web connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 4-17 2x4 - 2 rows staggered at 0-4-0 oc. Attach BC w/ 1/2" diam. bolts (ASTM A-307) in the center of the member w/washers at 4-0-0 oc.	14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	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.	15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
REACTIONS (lb/size)	10=3815/ Mechanical, (min. 0-1-8), 22=4758/0-3-8, (min. 0-2-0)	3) Unbalanced roof live loads have been considered for this design.	16) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-7-4 from the left end to 8-6-4 to connect truss(es) T18 (1 ply 2x4 SPF), T19 (1 ply 2x4 SPF), T20 (1 ply 2x4 SPF), T21 (1 ply 2x4 SPF), T22 (1 ply 2x4 SPF) to front face of bottom chord.
	Max Horiz 22=-231 (LC 12)	4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCdL=4.8psf; BCdL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-2-4, Interior (1) 3-2-4 to 10-8-12 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60	17) Use Simpson Strong-Tie HUS26 (14-16d Girder, 4-16d Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-11-4 from the left end to 8-11-4 to connect truss(es) T14 (1 ply 2x4 SPF), T15 (1 ply 2x4 SPF), T16 (1 ply 2x4 SPF), T17 (1 ply 2x4 SPF) to back face of bottom chord.
	Max Uplift 10=-350 (LC 16), 22=-437 (LC 12)	5) **TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps= varies (19.2 psf Lum DOL=1.15 Plate DOL=1.15) see load cases; Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.	18) Fill all nail holes where hanger is in contact with lumber.
	Max Grav 10=4319 (LC 2), 22=5119 (LC 2)		19) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 234 lb down and 42 lb up at 0-10-12, and 1403 lb down and 106 lb up at 0-10-12, and 323 lb down and 37 lb up at 6-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		LOAD CASE(S) Standard
TOP CHORD	1-22=-4257/601, 1-2=-811/180, 2-3=-1157/228, 3-4=-5111/613, 4-5=-14004/1561, 5-6=-15307/1704, 6-23=-11340/1358, 7-23=-11340/1358, 7-8=-10332/1248, 8-9=-1502/163, 9-10=-4067/571	6) Roof design snow load has been reduced to account for slope.	1) Dead & Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
BOT CHORD	21-22=-89/493, 20-21=-229/1589, 2-20=-76/390, 20-24=-622/4527, 19-24=-622/4527, 3-19=-522/5349, 18-25=-73/596, 17-25=-73/596, 16-17=-288/2399, 15-16=-45/497, 5-15=-5802/674, 15-26=-1760/14170, 14-26=-1760/14170, 13-14=-96/1166, 7-14=-25/527, 13-27=-92/676, 12-27=-92/676, 8-12=-4701/646	7) Unbalanced snow loads have been considered for this design.	Uniform Loads (lb/ft) Vert: 1-5=-59, 5-9=-59, 21-22=-20, 19-20=-20, 16-18=-20, 14-15=-20, 12-13=-20, 10-11=-20
WEBS	20-22=-1025/663, 3-20=-5091/553, 12-14=-301/1417, 8-14=-1199/9758, 10-12=-396/332, 9-12=-599/4019, 1-20=-590/4375, 4-17=-3447/522, 17-19=-693/5592, 4-19=-1192/283, 15-17=-460/3626, 4-15=-1249/10679, 6-15=-138/1541, 6-14=-3338/331	8) Provide adequate drainage to prevent water ponding.	Concentrated Loads (lb)
JOINT STRESS INDEX			

Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	G05	Roof Special Girder	1	4	Job Reference (optional)

Vert: 21=-1437 (F=-234, B=-1203), 16=-323 (F),
14=-280 (F), 17=-1551 (B), 19=-1392 (B), 24=-245
(F), 25=-323 (F), 26=-1095 (B), 27=-1095 (B)

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LUMBER		1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:	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, with BCDL = 10.0psf.
TOP CHORD	2x6 SPF No.2 *Except* T1,T2:2x4 SPF No.2	Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.	
BOT CHORD	2x6 SP 2400F 2.0E *Except* B1:2x6 SPF No.2	Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-2-0 oc.	13) Refer to girder(s) for truss to truss connections.
WEBS	2x4 SPF No.2	Web connected as follows: 2x4 - 1 row at 0-9-0 oc.	14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 183 lb uplift at joint 17 and 445 lb uplift at joint 10.
BRACING			15) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
TOP CHORD	Structural wood sheathing directly applied or 5-6-9 oc purlins, except end verticals, and 2-0-0 oc purlins (5-10-10 max.): 2-4.	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.	16) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.		17) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 4299 lb down and 362 lb up at 28-11-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
WEBS	1 Row at midpt 7-13	3) Unbalanced roof live loads have been considered for this design.	LOAD CASE(S) Standard
REACTIONS (lb/size)	10=4617/0-5-8, (min. 0-2-4), 17=2166/ Mechanical, (min. 0-1-8)	4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 1-0-8, Exterior(2R) 1-0-8 to 4-7-14, Interior (1) 4-7-14 to 19-2-0, Exterior(2R) 19-2-0 to 22-9-6, Interior (1) 22-9-6 to 37-5-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60	1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-2=-59, 2-4=-59, 4-5=-59, 5-8=-59, 8-9=-59, 10-17=-20 Concentrated Loads (lb) Vert: 11=-3885 (F)
	Max Horiz 17=-308 (LC 14)		
	Max Uplift 10=-445 (LC 16), 17=-183 (LC 16)		
	Max Grav 10=5368 (LC 2), 17=2678 (LC 29)		
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	5) **TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps= varies (19.2 psf Lum DOL=1.15 Plate DOL=1.15) see load cases; Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.	
TOP CHORD	2-18=-2213/306, 18-19=-2214/306, 19-20=-2214/306, 3-20=-2215/306, 3-21=-3764/436, 4-21=-3764/436, 4-22=-3755/424, 22-23=-3671/430, 5-23=-3562/446, 5-24=-3616/448, 24-25=-3657/428, 6-25=-3667/426, 6-7=-3837/410, 7-26=-7535/701, 8-26=-7761/680, 8-10=-5236/558	6) Roof design snow load has been reduced to account for slope.	
BOT CHORD	17-27=-53/489, 27-28=-53/489, 16-28=-53/489, 16-29=-159/2316, 15-29=-159/2316, 14-15=-159/2316, 14-30=-286/3792, 13-30=-286/3792, 12-13=-558/6836, 12-31=-558/6836, 11-31=-558/6836, 10-11=-36/305	7) Unbalanced snow loads have been considered for this design.	
WEBS	5-13=-203/2673, 2-17=-2560/419, 8-11=-535/6687, 2-16=-289/3038, 4-14=-1556/245, 3-16=-2198/330, 3-14=-250/2261, 7-11=-203/3115, 4-13=-863/178, 7-13=-4128/445	8) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.	
		9) Provide adequate drainage to prevent water ponding.	
		10) All plates are MT20 plates unless otherwise indicated.	
		11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.	
JOINT STRESS INDEX	1 = 0.54, 2 = 0.52, 3 = 0.75, 4 = 0.63, 5 = 0.50, 6 = 0.22, 7 = 0.74, 8 = 0.86, 10 = 0.55, 11 = 0.54, 12 = 0.65, 13 = 0.70, 14 = 0.75, 15 = 0.33, 16 = 0.80 and 17 = 0.38		
NOTES			

NOTES

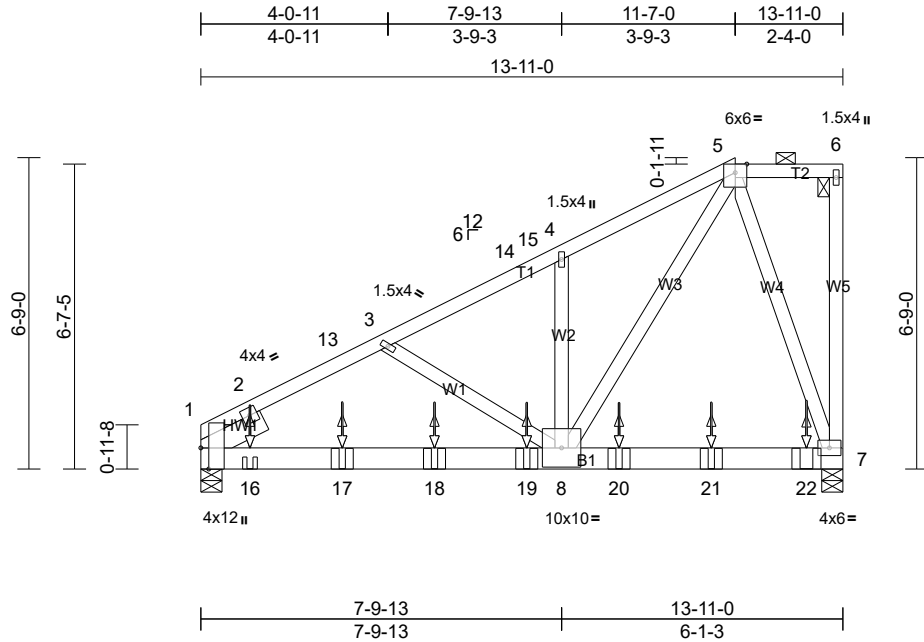
Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	G07	Half Hip Girder	1	3	Job Reference (optional)

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Scale = 1:45.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.10	8-11	>999	240	MT20	197/144
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.17	8-11	>988	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.57	Horz(CT)	0.01	1	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 253 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x6 SP 2400F 2.0E
WEBS 2x4 SPF No.2
SLIDER Left 2x6 SPF No.2 -- 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 1=4391/0-5-8, (min. 0-1-8), 7=6104/0-5-8, (min. 0-1-14)
Max Horiz 1=213 (LC 15)
Max Uplift 1=-325 (LC 16), 7=-485 (LC 13)
Max Grav 1=4947 (LC 2), 7=6835 (LC 2)

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

TOP CHORD 1-2=-5402/331, 2-13=-5898/506, 3-13=-5822/513, 3-14=-5609/457, 14-15=-5504/463, 4-15=-5486/465, 4-5=-5533/531

BOT CHORD 1-16=-624/5276, 16-17=-624/5276, 17-18=-624/5276, 18-19=-624/5276, 8-19=-624/5276, 8-20=-235/1378, 20-21=-235/1378, 21-22=-235/1378, 7-22=-235/1378

WEBS 5-7=-4047/477, 4-8=-268/236, 5-8=-561/6942, 3-8=-456/126

JOINT STRESS INDEX

1 = 0.83, 1 = 0.17, 2 = 0.00, 3 = 0.10, 4 = 0.07, 5 = 0.72, 6 = 0.60, 7 = 0.50 and 8 = 0.45

NOTES

- 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.
Bottom chords connected as follows: 2x6 - 3 rows staggered at 0-4-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 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 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 11-7-0, Exterior(2E) 11-7-0 to 13-9-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- **TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps= varies (19.2 psf Lum DOL=1.15 Plate DOL=1.15) see load cases; Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 325 lb uplift at joint 1 and 485 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

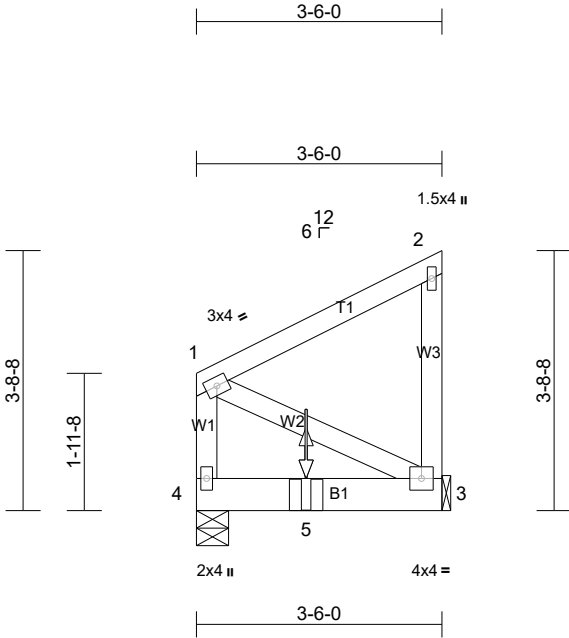
- Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss) or equivalent at 1-0-12 from the left end to connect truss(es) T12 (1 ply 2x4 SPF) to front face of bottom chord.
 - Use Simpson Strong-Tie HUS26 (14-16d Girder, 4-16d Truss) or equivalent spaced at 2-0-0 oc max. starting at 3-0-12 from the left end to 11-0-12 to connect truss(es) T13 (1 ply 2x4 SPF), T14 (1 ply 2x4 SPF), T15 (1 ply 2x4 SPF), T16 (1 ply 2x4 SPF), T17 (1 ply 2x4 SPF) to front face of bottom chord.
 - Use Simpson Strong-Tie HHUS26-2 (14-10d Girder, 6-10d Truss) or equivalent at 13-1-8 from the left end to connect truss(es) G06 (2 ply 2x6 SPF) to front face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.
- LOAD CASE(S)** Standard
- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-5=-59, 5-6=-59, 7-9=-20
Concentrated Loads (lb)
Vert: 16=-600 (F), 17=-1370 (F), 18=-1320 (F), 19=-1253 (F), 20=-1227 (F), 21=-1314 (F), 22=-2329 (F)

Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	G08	Jack-Closed Girder	1	1	Job Reference (optional)

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Scale = 1:31.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	-0.03	3-4	>999	240	MT20	197/144
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.05	3-4	>741	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.03	Horz(CT)	n/a	-	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0											
											Weight: 21 lb	FT = 20%

LUMBER	
TOP CHORD	2x4 SPF No.2
BOT CHORD	2x6 SP 2400F 2.0E
WEBS	2x4 SPF No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 3-6-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.	

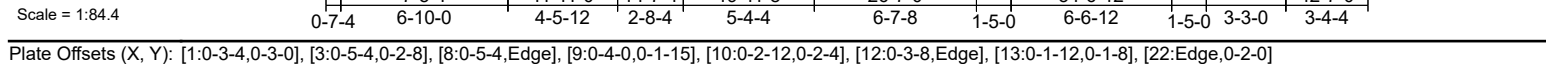
REACTIONS	(lb/size)	3=734/ Mechanical, (min. 0-1-8), 4=893/0-5-8, (min. 0-1-8)
	Max Horiz	4=109 (LC 13)
	Max Uplift	3=-104 (LC 13), 4=-69 (LC 12)
	Max Grav	3=995 (LC 27), 4=1205 (LC 28)
FORCES		
	(lb) - Max. Comp./Max. Ten. - All forces	250 (lb) or less except when shown.

JOINT STRESS INDEX
1 = 0.11, 2 = 0.21, 3 = 0.09 and 4 = 0.05

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps=19.2 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Roof design snow load has been reduced to account for slope.
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

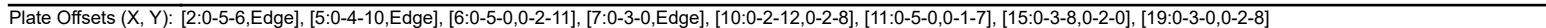
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 69 lb uplift at joint 4 and 104 lb uplift at joint 3.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Use Simpson Strong-Tie HUS26 (14-16d Girder, 4-16d Truss) or equivalent at 1-6-12 from the left end to connect truss(es) T28 (1 ply 2x4 SPF) to back face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.
- LOAD CASE(S)** Standard
- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-59, 3-4=-20
Concentrated Loads (lb)
Vert: 5=-1375

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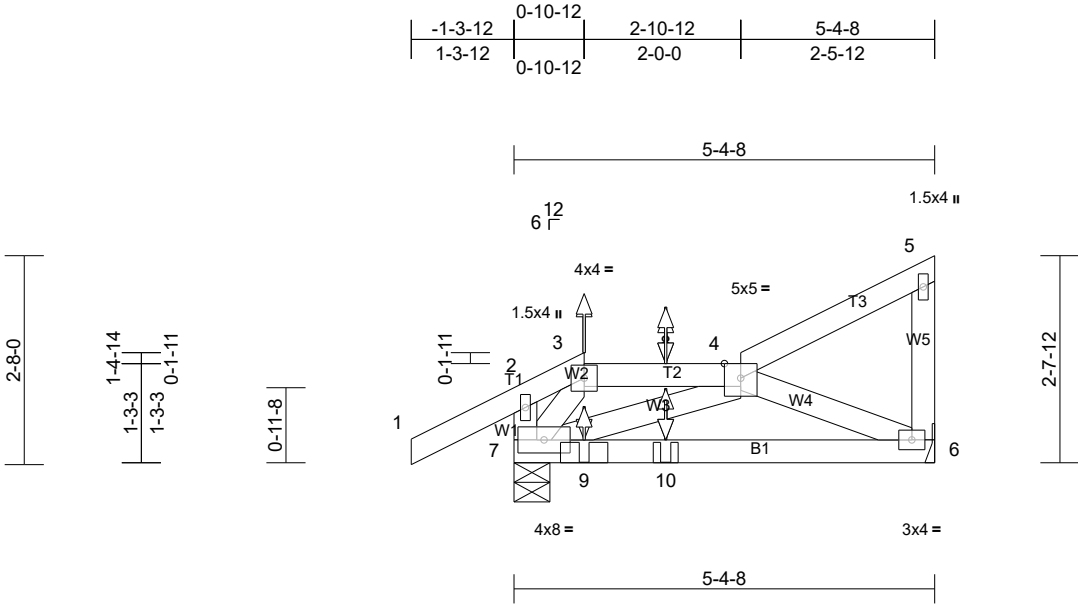
LUMBER		
TOP CHORD	2x6 SPF No.2 *Except* T1,T6:2x4 SPF No.2, T5:2x4 SP 2400F 2.0E	
BOT CHORD	2x4 SP 2400F 2.0E	
WEBS	2x4 SPF No.2	
OTHERS	2x8 SPF No.2 *Except* O1:2x4 SPF No.2	
BRACING		
TOP CHORD	Structural wood sheathing directly applied or 3-0-8 oc purlins, except end verticals, and 2-0-0 oc purlins (2-11-9 max.): 1-3, 8-9.	
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	
WEBS	1 Row at midpt 2-22, 4-18, 6-18, 8-16	
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.		
REACTIONS (lb/size)		
	12=2547/0-5-8, (min. 0-2-12), 24=1746/0-5-8, (min. 0-1-8)	
	Max Horiz 24=220 (LC 15)	
	Max Uplift 12=391 (LC 16), 24=158 (LC 16)	
	Max Grav 12=3304 (LC 57), 24=2295 (LC 28)	
FORCES		
	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	22-24=-195/2215, 1-24=-195/2215, 1-2=-352/66, 2-25=-3494/376, 3-25=-3494/376, 3-4=-3774/421, 4-26=-3133/398, 26-27=-3026/401, 27-28=-2998/404, 5-28=-2988/422, 5-29=-2885/414, 29-30=-2953/397, 30-31=-2969/396, 31-32=-3077/392, 6-32=-3103/379, 6-7=-4524/528, 7-8=-4706/524, 8-33=-5336/672, 33-34=-5336/672, 9-34=-5334/672, 9-35=-3249/472, 10-35=-3335/465, 10-12=-3244/514	
BOT CHORD	21-22=-138/1954, 20-21=-260/3537, 19-20=-261/3464, 19-37=-261/3464, 18-37=-261/3464, 18-38=-366/4106, 17-38=-366/4106, 16-17=-366/4106, 15-16=-680/5979, 14-15=-677/5985, 14-39=-386/2980, 13-39=-386/2980	

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LUMBER		WEBS	5-21=66/997, 6-21=964/98, 10-15=1706/262, 11-15=492/4383, 11-14=2076/269, 4-21=394/135, 9-16=5/605, 10-16=1409/271, 7-19=2302/350, 6-19=305/2698, 8-19=495/116, 8-18=547/166, 9-18=124/1140
TOP CHORD	2x4 SP 2400F 2.0E *Except* T1,T3:2x6 SPF No.2, T2,T7:2x4 SPF No.2		
BOT CHORD	2x4 SP 2400F 2.0E		
WEBS	2x4 SPF No.2 *Except* W12:2x4 SP 2400F 2.0E		
SLIDER	Left 2x6 SPF No.2 -- 2-5-0		
BRACING		JOINT STRESS INDEX	2 = 0.94, 2 = 0.79, 3 = 0.00, 4 = 0.54, 5 = 0.54, 6 = 0.80, 7 = 0.66, 8 = 0.54, 9 = 0.62, 10 = 1.00, 11 = 0.88, 12 = 0.43, 14 = 0.75, 15 = 0.71, 16 = 0.62, 17 = 0.98, 18 = 0.73, 19 = 0.80, 20 = 0.91, 21 = 0.46 and 22 = 0.51
TOP CHORD	Structural wood sheathing directly applied or 2-7-9 oc purlins, except end verticals, and 2-0-0 oc purlins (3-2-10 max.): 5-6, 7-9, 10-11.	NOTES	
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	1) Unbalanced roof live loads have been considered for this design.	
WEBS	1 Row at midpt 10-16, 7-19, 8-19	2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=43ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-3-12 to 2-11-6, Interior (1) 2-11-6 to 11-7-8, Exterior(2E) 11-7-8 to 16-3-8, Interior (1) 16-3-8 to 30-3-8, Exterior(2R) 30-3-8 to 34-6-10, Interior (1) 34-6-10 to 41-5-8, Exterior (2E) 41-5-8 to 43-10-12 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60	
	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.	3) **TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps= varies (19.2 psf Lum DOL=1.15 Plate DOL=1.15) see load cases; Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.	
REACTIONS (lb/size)	2=1740/0-5-8, (min. 0-1-13), 14=1682/0-5-8, (min. 0-1-13)	4) Roof design snow load has been reduced to account for slope.	
Max Horiz	2=169 (LC 15)	5) Unbalanced snow loads have been considered for this design.	
Max Uplift	2=178 (LC 16), 14=302 (LC 16)	6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.	
Max Grav	2=2224 (LC 2), 14=2174 (LC 2)	7) Provide adequate drainage to prevent water ponding.	
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.	
TOP CHORD	2-3=1137/104, 3-28=3509/408, 28-29=3467/421, 4-29=3376/423, 4-30=3249/416, 30-31=3205/421, 5-31=3177/440, 5-32=2824/439, 6-32=2824/439, 6-7=4430/610, 7-33=3983/534, 33-34=3983/534, 8-34=3983/534, 8-35=4245/557, 35-36=4242/557, 9-36=4242/557, 9-37=3854/486, 10-37=3964/467, 10-38=4900/610, 11-38=4900/610, 12-14=322/133		
BOT CHORD	2-22=375/3002, 21-22=375/3002, 20-21=331/3163, 19-20=331/3163, 18-19=449/4242, 17-18=361/3434, 16-17=361/3434, 15-16=565/4784, 15-39=134/899, 39-40=134/899, 14-40=134/899		

Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	G11	Roof Special Girder	1	1	Job Reference (optional)



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	-0.04	6-7	>999	240	MT20	197/144
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.08	6-7	>763	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.07	Horz(CT)	0.00	6	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 24 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-4-8 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 6=181/ Mechanical, (min. 0-1-8), 7=258/0-5-8, (min. 0-1-8)
Max Horiz 7=88 (LC 15)
Max Uplift 6=-25 (LC 13), 7=-66 (LC 16)
Max Grav 6=231 (LC 2), 7=349 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-7=-322/250
WEBS 3-7=-257/293, 4-7=-307/143

JOINT STRESS INDEX
2 = 0.35, 3 = 0.28, 4 = 0.10, 5 = 0.16, 6 = 0.14 and 7 = 0.14

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-3-12 to 2-10-12, Interior (1) 2-10-12 to 5-2-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) **TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps= varies (19.2 psf Lum DOL=1.15 Plate DOL=1.15) see load cases; Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.

- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 25 lb uplift at joint 6 and 66 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Use Simpson Strong-Tie TJC37 (4 nail,90-150) or equivalent at 0-10-12 from the left end to connect truss(es) J22 (1 ply 2x4 SPF) to back face of bottom chord, skewed 45.0 deg.to the right, sloping 0.0 deg. down.
- Use Simpson Strong-Tie LUS24 (4-10dx1 1/2 Girder, 2-10d Truss, Single Ply Girder) or equivalent at 1-11-4 from the left end to connect truss(es) J23 (1 ply 2x4 SPF) to back face of bottom chord, skewed 0.0 deg.to the left, sloping 0.0 deg. down.
- Fill all nail holes where hanger is in contact with lumber.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 109 lb down and 186 lb up at 0-10-12, and 72 lb down and 32 lb up at 1-11-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-59, 2-3=-59, 3-4=-59, 4-5=-59, 6-7=-20

Concentrated Loads (lb)
Vert: 3=46 (B), 10=-1 (B)

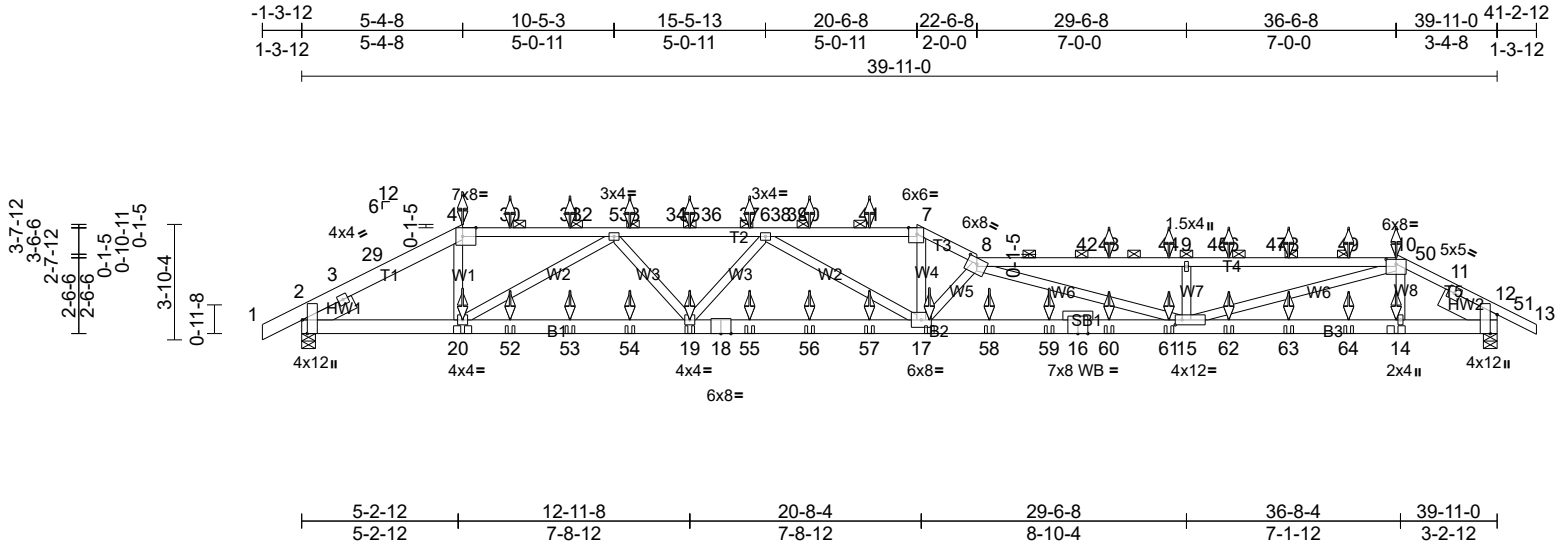
Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	G12	Roof Special Girder	1	3	Job Reference (optional)

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Scale = 1:72.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	-0.54	15-17	>880	240	MT20	197/144
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.86	15-17	>555	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.68	Horz(CT)	0.08	12	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS								
BCDL	10.0											
Weight: 620 lb FT = 20%												

LUMBER
TOP CHORD 2x4 SPF No.2 *Except* T1:2x6 SPF No.2, T4:2x4 SP 2400F 2.0E
BOT CHORD 2x6 SP 2400F 2.0E *Except* B1:2x6 SPF No.2
WEBS 2x4 SPF No.2
OTHERS 2x4 SPF No.2
SLIDER Left 2x6 SPF No.2 -- 1-9-13, Right 2x8 SPF No.2 -- 2-0-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-9-9 oc purlins, except
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=3386/0-5-8, (min. 0-1-13), 12=2938/0-5-8, (min. 0-1-8)
Max Horiz 2=71 (LC 15)
Max Uplift 2=-299 (LC 16), 12=-305 (LC 16)
Max Grav 2=3504 (LC 43), 12=3137 (LC 43)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4324/312, 3-29=-6051/493, 4-29=-6032/510, 4-30=-5166/482, 30-31=-5166/482, 31-32=-5166/482, 5-32=-5166/482, 5-33=-10367/927, 33-34=-10367/927, 34-35=-10367/927, 35-36=-10367/927, 36-37=-10367/927, 6-37=-10367/927, 6-38=-11574/1149, 38-39=-11574/1149, 39-40=-11574/1149, 40-41=-11571/1149, 7-41=-11570/1149, 7-8=-13213/1294, 8-42=-12498/1231, 42-43=-12499/1231, 43-44=-12500/1231, 9-44=-12501/1231, 9-45=-12501/1231, 45-46=-12500/1231, 46-47=-12499/1231, 47-48=-12499/1231, 48-49=-12498/1231, 10-49=-12497/1231, 10-50=-5105/497, 11-50=-5121/490, 11-12=-2883/277

BOT CHORD 2-20=-365/5276, 20-52=-762/9115, 52-53=-762/9115, 53-54=-762/9115, 19-54=-762/9115, 18-19=-993/11238, 18-55=-993/11238, 55-56=-993/11238, 56-57=-993/11238, 17-57=-993/11238, 17-58=-1494/16053, 58-59=-1494/16053, 16-59=-1494/16053, 16-60=-1494/16053, 60-61=-1494/16053, 15-61=-1494/16053, 15-62=-379/4579, 62-63=-379/4579, 63-64=-379/4579, 14-64=-379/4579, 12-14=-370/4547, 4-20=-74/2378, 5-20=-4620/474, 6-17=-43/516, 7-17=-472/5615, 8-17=-6552/689, 10-14=-490/149, 9-15=-988/218, 10-15=-797/8300, 8-15=-3725/373, 6-19=-1393/298, 5-19=-73/2003

JOINT STRESS INDEX
2 = 0.96, 2 = 0.45, 3 = 0.00, 4 = 0.60, 5 = 0.72, 6 = 0.54, 7 = 0.76, 8 = 0.94, 9 = 0.51, 10 = 0.69, 11 = 0.00, 12 = 0.78, 12 = 0.28, 14 = 0.38, 15 = 0.76, 16 = 0.94, 17 = 0.54, 18 = 0.72, 19 = 0.45 and 20 = 0.60

NOTES
1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-6-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 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) Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-3-12 to 2-8-2, Interior (1) 2-8-2 to 5-4-8, Exterior(2R) 5-4-8 to 9-4-6, Interior (1) 9-4-6 to 20-6-8, Exterior(2E) 20-6-8 to 22-6-8, Interior (1) 22-6-8 to 36-6-8, Exterior(2R) 36-6-8 to 40-6-7, Interior (1) 40-6-7 to 41-2-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- **TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps= varies (19.2 psf Lum DOL=1.15 Plate DOL=1.15) see load cases; Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 299 lb uplift at joint 2 and 305 lb uplift at joint 12.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Use Simpson Strong-Tie TJC37 (6 nail,90-150) or equivalent at 5-4-8 from the left end to connect truss(es) CG05 (1 ply 2x4 SP) to back face of bottom chord, skewed 45.0 deg.to the right, sloping 0.0 deg. down.

Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	G12	Roof Special Girder	1	3	Job Reference (optional)

- 16) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 6-11-8 from the left end to 34-11-8 to connect truss(es) J21 (1 ply 2x4 SPF), T37 (1 ply 2x4 SPF), T36 (1 ply 2x4 SPF), G11 (1 ply 2x4 SPF), J24 (1 ply 2x4 SPF) to back face of bottom chord.
- 17) Use Simpson Strong-Tie TJC37 (4 nail, 30-90) or equivalent at 36-6-8 from the left end to connect truss (es) CG06 (1 ply 2x4 SPF) to back face of bottom chord, skewed 45.0 deg.to the left, sloping 0.0 deg. down.
- 18) Fill all nail holes where hanger is in contact with lumber.
- 19) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 237 lb down and 74 lb up at 5-4-8, 172 lb down and 63 lb up at 6-11-8, 172 lb down and 63 lb up at 8-11-8, 172 lb down and 63 lb up at 10-11-8, 172 lb down and 63 lb up at 12-11-8, 172 lb down and 63 lb up at 14-11-8, 172 lb down and 63 lb up at 16-11-8, 172 lb down and 63 lb up at 18-11-8, 82 lb down and 47 lb up at 26-11-8, 82 lb down and 47 lb up at 28-11-8, 82 lb down and 47 lb up at 30-11-8, 82 lb down and 47 lb up at 32-11-8, and 82 lb down and 47 lb up at 34-11-8, and 113 lb down and 70 lb up at 36-6-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (lb/ft)
- Vert: 1-4=-59, 4-7=-59, 7-8=-59, 8-10=-59, 10-13=-59, 21-25=-20
- Concentrated Loads (lb)
- Vert: 4=-199 (B), 10=-73 (B), 20=-215 (B), 17=-253 (B), 14=-29 (B), 19=-62 (B), 30=-145 (B), 31=-145 (B), 33=-145 (B), 35=-145 (B), 37=-145 (B), 40=-145 (B), 41=-145 (B), 43=-55 (B), 44=-55 (B), 46=-55 (B), 48=-55 (B), 49=-55 (B), 52=-62 (B), 53=-62 (B), 54=-62 (B), 55=-62 (B), 56=-62 (B), 57=-62 (B), 58=-210 (B), 59=-211 (B), 60=-25 (B), 61=-25 (B), 62=-25 (B), 63=-25 (B), 64=-25 (B)

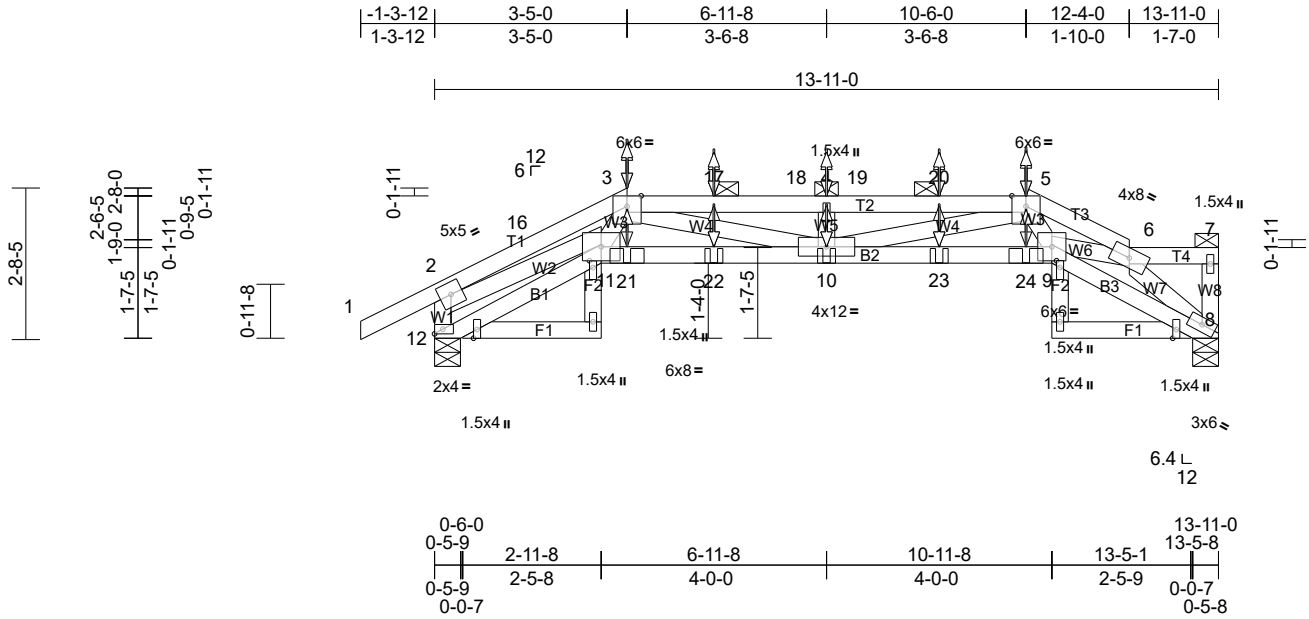
Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	G13	Roof Special Girder	1	1	Job Reference (optional)

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Scale = 1:34

Plate Offsets (X, Y): [9:0-1-7,0-0-12], [11:0-1-7,0-0-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	-0.20	10-11	>799	240	MT20	197/144
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.34	10-11	>480	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.63	Horz(CT)	0.27	8	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 63 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-2-8 oc purlins, except end verticals, and 2-0-0 oc purlins (2-7-1 max.): 3-5, 6-7.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS

(lb/size) 8=778/0-5-8, (min. 0-1-8), 12=873/0-5-8, (min. 0-1-8)
Max Horiz 12=78 (LC 15)
Max Uplift 8=63 (LC 16), 12=113 (LC 16)
Max Grav 8=858 (LC 40), 12=998 (LC 41)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-12=-987/270, 2-16=-2899/543, 3-16=-2870/550, 3-17=-3496/595, 17-18=-3496/595, 4-18=-3499/595, 4-19=-3499/595, 19-20=-3496/595, 5-20=-3495/595, 5-6=-3057/515
BOT CHORD 11-21=-468/2281, 21-22=-468/2281, 10-22=-468/2281, 10-23=-430/2384, 23-24=-430/2384, 9-24=-430/2384, 8-9=-315/1531
WEBS 2-11=-387/2577, 3-11=-125/710, 3-10=-145/1258, 4-10=-500/149, 5-10=-168/1151, 5-9=-107/830, 6-9=-202/1395, 6-8=-1919/371

JOINT STRESS INDEX

2 = 0.97, 3 = 0.49, 4 = 0.23, 5 = 0.50, 6 = 0.70, 7 = 0.67, 8 = 0.68, 9 = 0.00, 10 = 0.61, 11 = 0.00, 12 = 0.50, 13 = 0.86, 14 = 0.00, 15 = 0.00

NOTES

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-3-12 to 1-8-4, Interior (1) 1-8-4 to 3-5-0, Exterior(2R) 3-5-0 to 6-5-0, Interior (1) 6-5-0 to 10-6-0, Exterior(2E) 10-6-0 to 12-4-0, Interior (1) 12-4-0 to 13-9-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- **TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps= varies (19.2 psf Lum DOL=1.15 Plate DOL=1.15) see load cases; Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 12, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 113 lb uplift at joint 12 and 63 lb uplift at joint 8.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

- Use Simpson Strong-Tie TJC37 (4 nail,90-150) or equivalent at 3-5-0 from the left end to connect truss(es) CG04 (1 ply 2x4 SPF) to back face of bottom chord, skewed 45.0 deg to the right, sloping 0.0 deg. down.
- Use Simpson Strong-Tie LUS24 (4-10dx1 1/2 Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 4-11-8 from the left end to 8-11-8 to connect truss(es) J17 (1 ply 2x4 SPF) to back face of bottom chord.
- Use Simpson Strong-Tie TJC37 (4 nail, 30-90) or equivalent at 10-6-0 from the left end to connect truss (es) CG04 (1 ply 2x4 SPF) to back face of bottom chord, skewed 45.0 deg to the left, sloping 0.0 deg. down.
- Fill all nail holes where hanger is in contact with lumber.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 164 lb down and 56 lb up at 3-5-0, 91 lb down and 48 lb up at 4-11-8, 84 lb down and 48 lb up at 6-11-8, and 91 lb down and 48 lb up at 8-11-8, and 164 lb down and 56 lb up at 10-6-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-59, 2-3=-59, 3-5=-59, 5-6=-59, 6-7=-59, 11-12=-20, 9-11=-20, 8-9=-20
Concentrated Loads (lb)
Vert: 3=-123 (B), 5=-123 (B), 10=-26 (B), 4=-57 (B), 17=-57 (B), 20=-57 (B), 22=-26 (B), 23=-26 (B)

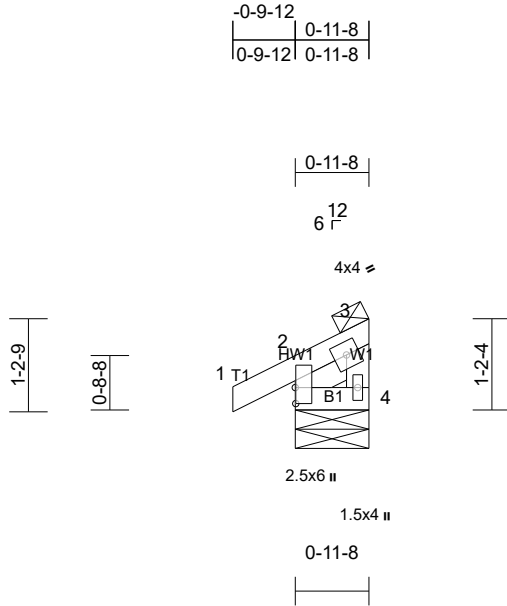
Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	GB01	Monopitch Supported Gable	1	1	Job Reference (optional)

Millard Lumber, Inc., Waverly NE 68462

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Scale = 1:15.8

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999	197/144
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP							
BCDL	10.0										
										Weight: 5 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x4 SPF No.2 -- 0-9-7

BRACING

TOP CHORD Structural wood sheathing directly applied or 0-11-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 2=103/0-11-8, (min. 0-1-8),
4=8/0-11-8, (min. 0-1-8),
5=103/0-11-8, (min. 0-1-8)
Max Horiz 2=30 (LC 15), 5=30 (LC 15)
Max Uplift 2=-39 (LC 16), 4=-11 (LC 13),
5=-39 (LC 16)
Max Grav 2=138 (LC 2), 4=16 (LC 14), 5=138 (LC 2)

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

JOINT STRESS INDEX

2 = 0.70, 3 = 0.03 and 4 = 0.04

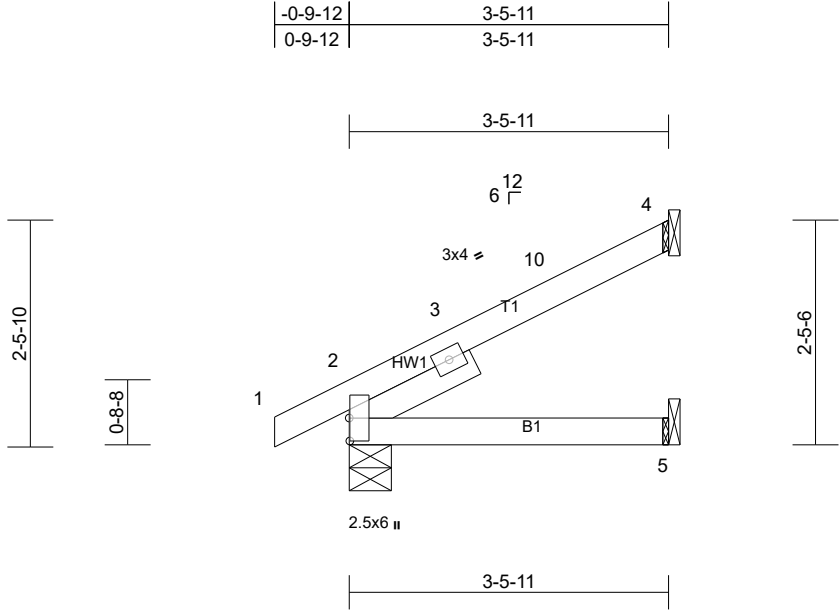
NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed;
MWFRS (directional) and C-C Corner(3E) zone;
cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- 4) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps=19.2 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Roof design snow load has been reduced to account for slope.
- 6) Unbalanced snow loads have been considered for this design.
- 7) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.
- 8) Gable requires continuous bottom chord bearing.
- 9) Gable studs spaced at 1-4-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) * 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.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 2, 11 lb uplift at joint 4 and 39 lb uplift at joint 2.
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	J01	Jack-Open	1	1	Job Reference (optional)



Scale = 1:18.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	0.01	5-8	>999	240	MT20	197/144
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.02	5-8	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0											
											Weight: 11 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
SLIDER Left 2x4 SPF No.2 -- 1-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-5-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=187/0-5-8, (min. 0-1-8), 4=85/
Mechanical, (min. 0-1-8), 5=43/
Mechanical, (min. 0-1-8)
Max Horiz 2=64 (LC 16)
Max Uplift 2=-22 (LC 16), 4=-33 (LC 16)
Max Grav 2=266 (LC 21), 4=126 (LC 21),
5=61 (LC 7)

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

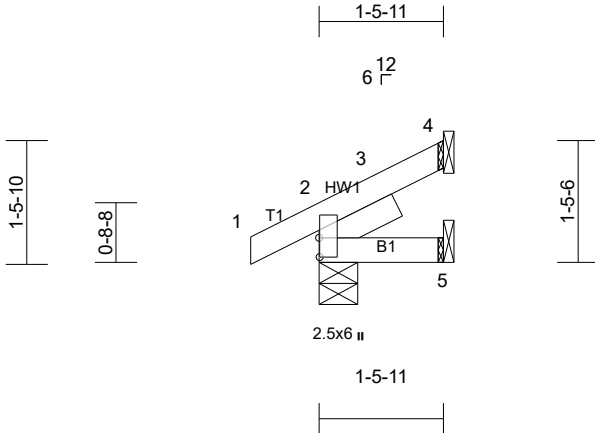
JOINT STRESS INDEX
2 = 0.67, 2 = 0.05 and 3 = 0.00

- NOTES**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed;
MWFRS (directional) and C-C Exterior(2E) -0-9-12 to
2-2-4, Interior (1) 2-2-4 to 3-4-15 zone; cantilever left and
right exposed ; end vertical left and right exposed;C-C
for members and forces & MWFRS for reactions shown;
Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15
Plate DOL=1.15); Pg=25.0 psf; Ps=19.2 psf (Lum
DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C;
Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Roof design snow load has been reduced to account for
slope.
 - 4) Unbalanced snow loads have been considered for this
design.
 - 5) This truss has been designed for greater of min roof live
load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on
overhangs non-concurrent with other live loads.
 - 6) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.

- 7) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
 - 8) Refer to girder(s) for truss to truss connections.
 - 9) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 33 lb uplift at joint
4 and 22 lb uplift at joint 2.
 - 10) This truss is designed in accordance with the 2018
International Residential Code sections R502.11.1 and
R802.10.2 and referenced standard ANSI/TPI 1.
- LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	J02	Jack-Open	1	1	Job Reference (optional)

-0-9-12	1-5-11
0-9-12	1-5-11



Scale = 1:16.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	n/a	-	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 6 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2

SLIDER Left 2x4 SPF No.2 -- 1-0-0

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-5-11 oc purlins.

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

REACTIONS (lb/size) 2=118/0-5-8, (min. 0-1-8), 4=29/ Mechanical, (min. 0-1-8), 5=15/ Mechanical, (min. 0-1-8)

Max Horiz 2=37 (LC 16)

Max Uplift 2=-26 (LC 16), 4=-12 (LC 16)

Max Grav 2=157 (LC 21), 4=39 (LC 21), 5=24 (LC 7)

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

JOINT STRESS INDEX

2 = 0.66 and 3 = 0.00

- NOTES**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps=19.2 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Roof design snow load has been reduced to account for slope.
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 8) Refer to girder(s) for truss to truss connections.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 4 and 26 lb uplift at joint 2.
 - 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	J03	Jack-Open	1	1	Job Reference (optional)

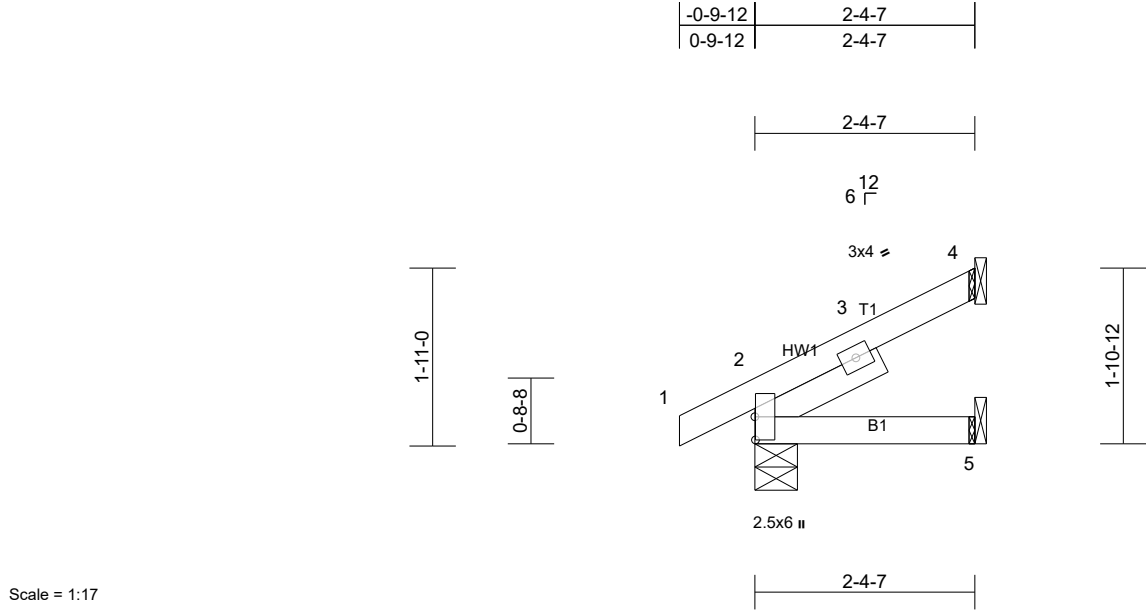


Plate Offsets (X, Y): [2:0-3-0,0-0-1]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	0.00	5-8	>999	240	MT20
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	0.00	5-8	>999	180	197/144
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP							
BCDL	10.0										
										Weight: 9 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2

SLIDER Left 2x4 SPF No.2 -- 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-4-7 oc purlins.

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

REACTIONS (lb/size) 2=146/0-5-8, (min. 0-1-8), 4=55/ Mechanical, (min. 0-1-8), 5=27/ Mechanical, (min. 0-1-8)

Max Horiz 2=49 (LC 16)

Max Uplift 2=-23 (LC 16), 4=-22 (LC 16)

Max Grav 2=201 (LC 21), 4=77 (LC 21), 5=39 (LC 7)

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

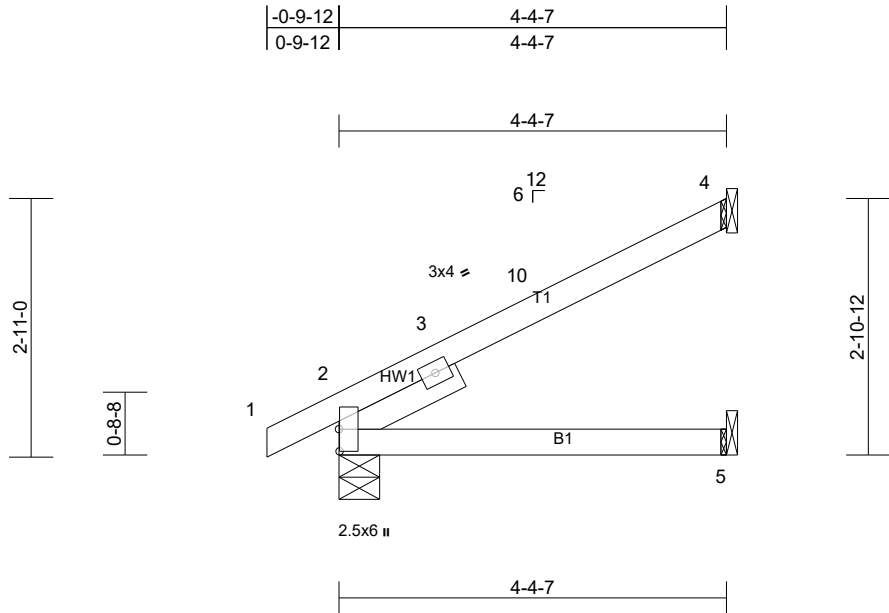
JOINT STRESS INDEX

2 = 0.80, 2 = 0.04 and 3 = 0.00

- NOTES**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps=19.2 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Roof design snow load has been reduced to account for slope.
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 8) Refer to girder(s) for truss to truss connections.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 4 and 23 lb uplift at joint 2.
 - 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	J04	Jack-Open	1	1	Job Reference (optional)



Scale = 1:20.6									
Plate Offsets (X, Y): [2:0-3-0,0-0-1]									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in (loc)	I/defl	L/d
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	-0.03	5-8	>999
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.05	5-8	>999
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.02	4	n/a
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP					
BCDL	10.0								
									PLATES
									GRIP
									MT20
									197/144
									Weight: 13 lb
									FT = 20%

LUMBER
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
SLIDER Left 2x4 SPF No.2 -- 1-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-4-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=221/0-5-8, (min. 0-1-8), 4=109/
Mechanical, (min. 0-1-8), 5=55/
Mechanical, (min. 0-1-8)
Max Horiz 2=77 (LC 16)
Max Uplift 2=-21 (LC 16), 4=-43 (LC 16)
Max Grav 2=320 (LC 21), 4=166 (LC 21),
5=78 (LC 7)

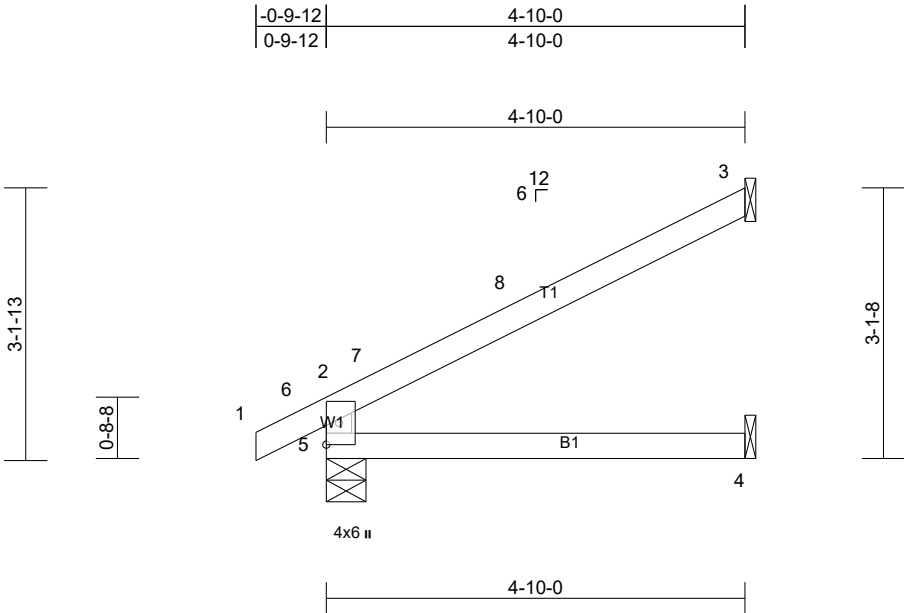
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250
(lb) or less except when shown.

JOINT STRESS INDEX
2 = 0.63, 2 = 0.08 and 3 = 0.00

- NOTES**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed;
MWFRS (directional) and C-C Exterior(2E) -0-9-12 to
2-2-4, Interior (1) 2-2-4 to 4-3-11 zone; cantilever left and
right exposed ; end vertical left and right exposed;C-C
for members and forces & MWFRS for reactions shown;
Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15
Plate DOL=1.15); Pg=25.0 psf; Ps=19.2 psf (Lum
DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C;
Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Roof design snow load has been reduced to account for
slope.
 - 4) Unbalanced snow loads have been considered for this
design.
 - 5) This truss has been designed for greater of min roof live
load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on
overhangs non-concurrent with other live loads.
 - 6) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.

- 7) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
 - 8) Refer to girder(s) for truss to truss connections.
 - 9) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 43 lb uplift at joint
4 and 21 lb uplift at joint 2.
 - 10) This truss is designed in accordance with the 2018
International Residential Code sections R502.11.1 and
R802.10.2 and referenced standard ANSI/TPI 1.
- LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	J05	Jack-Open	3	1	Job Reference (optional)



Scale = 1:21.4

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	0.03	4-5	>999	240	MT20
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	-0.05	4-5	>999	180	197/144
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.02	3	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MR							
BCDL	10.0										
Weight: 13 lb FT = 20%											

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

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 25 lb uplift at joint 5 and 50 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

REACTIONS	(lb/size)	3=121/ Mechanical, (min. 0-1-8), 4=54/ Mechanical, (min. 0-1-8), 5=243/0-5-8, (min. 0-1-8)
	Max Horiz	5=95 (LC 16)
	Max Uplift	3=-50 (LC 16), 5=-25 (LC 16)
	Max Grav	3=188 (LC 21), 4=87 (LC 7), 5=333 (LC 21)

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

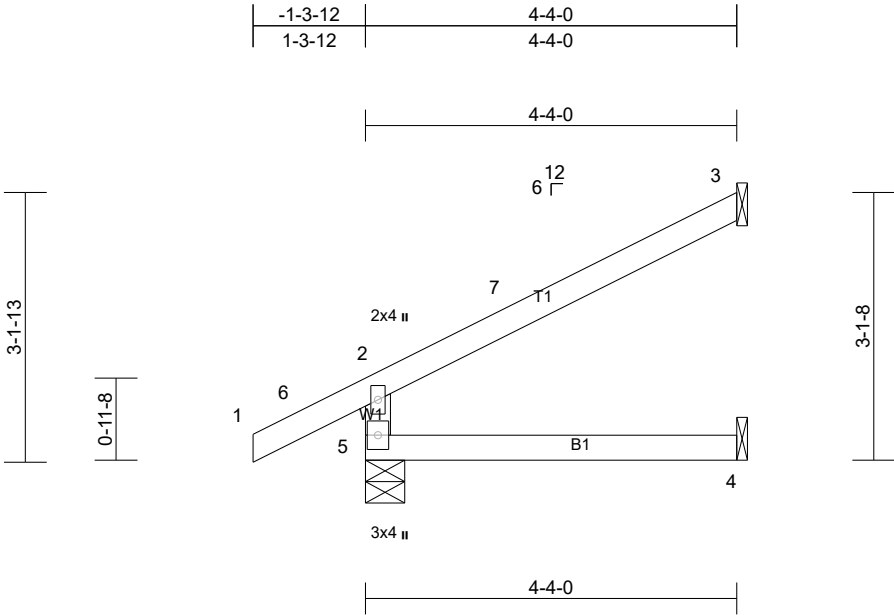
TOP CHORD 2-5=-304/161

JOINT STRESS INDEX

2 = 0.38, 5 = 0.67 and 5 = 0.67

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-9-12 to 2-2-4, Interior (1) 2-2-4 to 4-9-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps=19.2 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Roof design snow load has been reduced to account for slope.
 - Unbalanced snow loads have been considered for this design.

Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	J06	Jack-Open	10	1	Job Reference (optional)



Scale = 1:21.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	0.02	4-5	>999	240	MT20	197/144
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.03	4-5	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.02	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MR								
BCDL	10.0											
											Weight: 13 lb	FT = 20%

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

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 40 lb uplift at joint 5 and 45 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

REACTIONS	(lb/size)	3=103/ Mechanical, (min. 0-1-8), 4=44/ Mechanical, (min. 0-1-8), 5=262/0-5-8, (min. 0-1-8)
	Max Horiz	5=104 (LC 16)
	Max Uplift	3=-45 (LC 16), 5=-40 (LC 16)
	Max Grav	3=162 (LC 21), 4=77 (LC 7), 5=363 (LC 21)

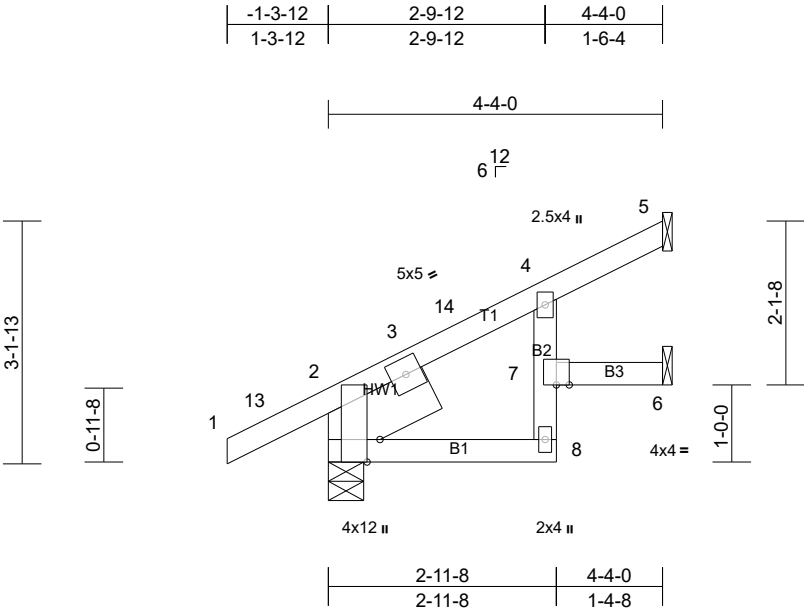
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-5=-330/179

JOINT STRESS INDEX
2 = 0.73 and 5 = 0.99

- NOTES
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-3-12 to 1-8-4, Interior (1) 1-8-4 to 4-3-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps=19.2 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Roof design snow load has been reduced to account for slope.
 - Unbalanced snow loads have been considered for this design.

Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	J07	Jack-Open	4	1	Job Reference (optional)



Scale = 1:22.2

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

loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	-0.01	8	>999	240	MT20	197/144
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.02	4-7	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	6	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MR								
BCDL	10.0											
											Weight: 18 lb	FT = 20%

- LUMBER**
- TOP CHORD 2x4 SPF No.2
- BOT CHORD 2x4 SPF No.2
- SLIDER Left 2x8 SPF No.2 -- 1-6-0
- BRACING**
- TOP CHORD Structural wood sheathing directly applied or 4-4-0 oc purlins.
- BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
- REACTIONS** (lb/size) 2=256/0-5-8, (min. 0-1-8), 5=78/ Mechanical, (min. 0-1-8), 6=78/ Mechanical, (min. 0-1-8)
- Max Horiz 2=87 (LC 16)
- Max Uplift 2=-37 (LC 16), 5=-24 (LC 16), 6=-9 (LC 16)
- Max Grav 2=354 (LC 21), 5=117 (LC 21), 6=107 (LC 21)
- FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

JOINT STRESS INDEX

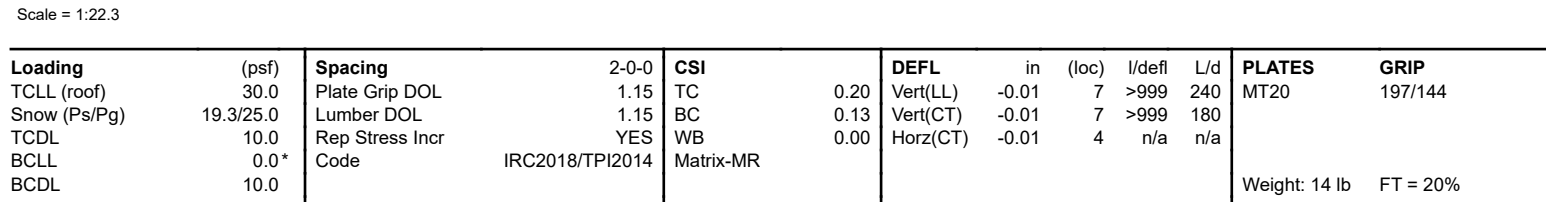
2 = 0.37, 2 = 0.06, 3 = 0.00, 4 = 0.65, 7 = 0.69 and 8 = 0.57

- NOTES**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-3-12 to 1-8-4, Interior (1) 1-8-4 to 4-3-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps=19.2 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Roof design snow load has been reduced to account for slope.
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.

- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 5, 37 lb uplift at joint 2 and 9 lb uplift at joint 6.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Millard Lumber, Inc., Waverly NE 68462 Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Mon Jun 30 14:49:52 Page: ID:IXqZwTAKPHddBno9JCQeEVz5kga-jJyXHE0WiqTmfB0sUc6jCdO40mrcEsVm3lcCRz13IT



Max Uplift 4=15 (LC 16), 5=14 (LC 16),
8=41 (LC 16)
Max Grav 4=95 (LC 21), 5=82 (LC 21), 8=363
(LC 21)

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

TOP CHORD 2-8=329/160

JOINT STRESS INDEX
2 = 0.66, 3 = 0.65, 6 = 0.80, 7 = 0.32 and 8 = 0.59

- ## NOTES
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust)
 Vasd=91mph; TCDFL=4.8psf; BCDL=6.0psf; h=15ft;
 B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed;
 MWFRS (directional) and C-C Exterior(2E) -1-3-12 to
 1-8-4, Interior (1) 1-8-4 to 3-9-11 zone; cantilever left and
 right exposed ; end vertical left and right exposed; C-C
 for members and forces & MWFRS for reactions shown;
 Lumber DOL=1.60 plate grip DOL=1.60
 - 3) TCCL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15
 Plate DOL=1.15); Pg=25.0 psf; Ps=19.2 psf (Lum
 DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C;
 Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 4) Roof design snow load has been reduced to account for
 slope.

Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	J09	Jack-Open	1	1	Job Reference (optional)

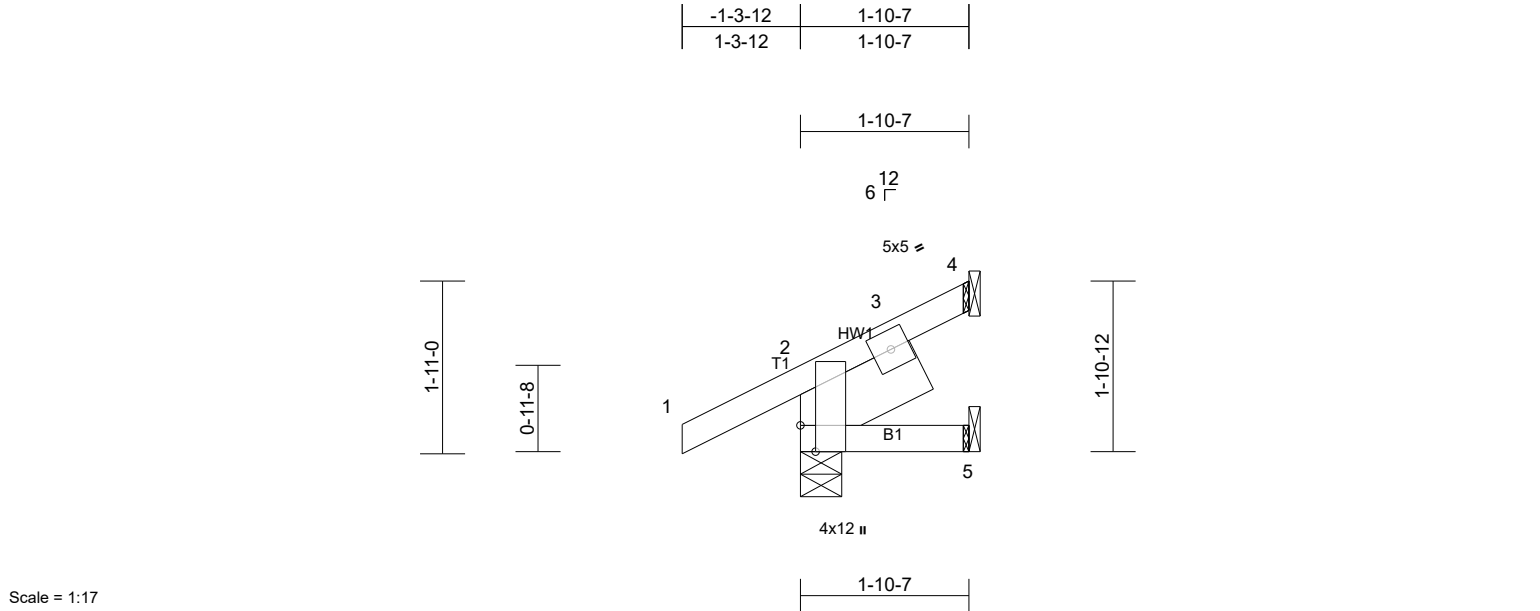


Plate Offsets (X, Y): [2:0-3-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	n/a	-	n/a	999	MT20
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	8	>999	180	197/144
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP							
BCDL	10.0										
										Weight: 10 lb	FT = 20%

LUMBER
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 SLIDER Left 2x8 SPF No.2 -- 1-6-0
BRACING
 TOP CHORD Structural wood sheathing directly applied or 1-10-7 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS (lb/size) 2=177/0-5-8, (min. 0-1-8), 4=31/ Mechanical, (min. 0-1-8), 5=15/ Mechanical, (min. 0-1-8)
 Max Horiz 2=54 (LC 16)
 Max Uplift 2=-44 (LC 16), 4=-14 (LC 16)
 Max Grav 2=248 (LC 21), 4=42 (LC 21), 5=27 (LC 7)
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

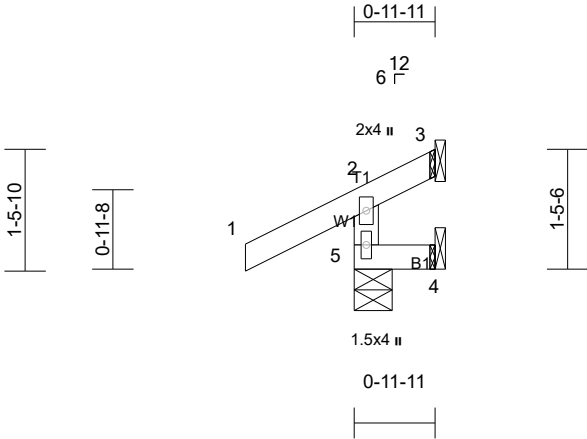
JOINT STRESS INDEX
 2 = 0.42, 2 = 0.03 and 3 = 0.00

- NOTES**
 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 2) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps=19.2 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 3) Roof design snow load has been reduced to account for slope.
 4) Unbalanced snow loads have been considered for this design.
 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.
 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 8) Refer to girder(s) for truss to truss connections.
 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 4 and 44 lb uplift at joint 2.
 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	J10	Jack-Open	1	1	Job Reference (optional)

-1-3-12	0-11-11
1-3-12	0-11-11



Scale = 1:16.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MR							Weight: 5 lb	FT = 20%
BCDL	10.0											

LUMBER		
TOP CHORD	2x4 SPF No.2	
BOT CHORD	2x4 SPF No.2	
WEBS	2x4 SPF No.2	
BRACING		
TOP CHORD	Structural wood sheathing directly applied or 0-11-11 oc purlins, except end verticals.	
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	
	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.	

- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 59 lb uplift at joint 5, 49 lb uplift at joint 3 and 16 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

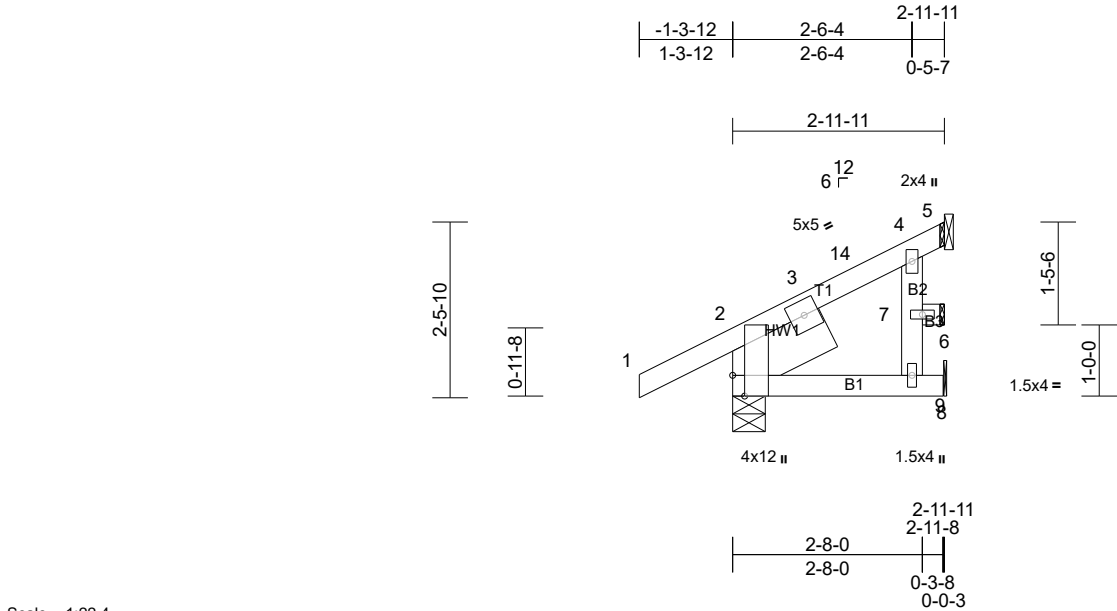
REACTIONS	(lb/size)	3=-34/ Mechanical, (min. 0-1-8), 4=-10/ Mechanical, (min. 0-1-8), 5=193/0-5-8, (min. 0-1-8)
	Max Horiz	5=59 (LC 16)
	Max Uplift	3=-49 (LC 20), 4=-16 (LC 21), 5=-59 (LC 16)
	Max Grav	3=13 (LC 12), 4=10 (LC 7), 5=264 (LC 21)

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
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JOINT STRESS INDEX
 2 = 0.60 and 5 = 0.43

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps=19.2 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Roof design snow load has been reduced to account for slope.
 - Unbalanced snow loads have been considered for this design.

Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	J11	Jack-Open	1	1	Job Reference (optional)



Scale = 1:22.4

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	0.00	9-12	>999	240	MT20
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	0.00	9-12	>999	180	197/144
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	5	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MR							
BCDL	10.0										
										Weight: 15 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
SLIDER Left 2x8 SPF No.2 -- 1-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-11-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=209/0-5-8, (min. 0-1-8), 5=51/Mechanical, (min. 0-1-8), 8=55/Mechanical, (min. 0-1-8)
Max Horiz 2=68 (LC 16)
Max Uplift 2=-39 (LC 16), 5=-4 (LC 16), 8=-12 (LC 16)
Max Grav 2=302 (LC 21), 5=67 (LC 21), 8=74 (LC 21)

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

JOINT STRESS INDEX
2 = 0.42, 2 = 0.03, 3 = 0.00, 4 = 0.60, 7 = 0.09 and 9 = 0.66

NOTES
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-3-12 to 1-8-4, Interior (1) 1-8-4 to 2-10-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C- C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps=19.2 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Roof design snow load has been reduced to account for slope.
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.

- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 5, 39 lb uplift at joint 2 and 12 lb uplift at joint 8.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

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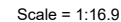


Plate Offsets (X, Y): [2:0-3-8,Edge]

LUMBER		7) * 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.
TOP CHORD	2x4 SPF No.2	
BOT CHORD	2x4 SPF No.2	
SLIDER	Left 2x8 SPF No.2 -- 1-6-0	
BRACING		8) Refer to girder(s) for truss to truss connections.
TOP CHORD	Structural wood sheathing directly applied or 1-9-11 oc purlins.	9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 13 lb uplift at joint 4 and 44 lb uplift at joint 2.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
REACTIONS	(lb/size) 2=175/0-5-8, (min. 0-1-8), 4=28/ Mechanical, (min. 0-1-8), 5=14/	LOAD CASE(S) Standard

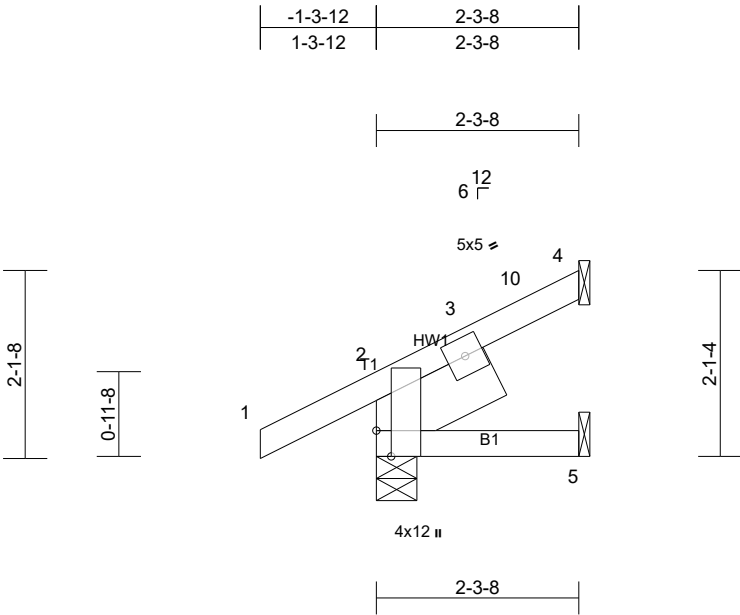
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

JOINT STRESS INDEX
2 = 0.42, 2 = 0.03 and 3 = 0.00

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TC DL=4.8psf; BC DL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed;
MWFRS (directional) and C-C Exterior(2E) zone;
cantilever left and right exposed ; end vertical left
and right exposed; C-C for members and forces & MWFRS
for reactions shown; Lumber DOL=1.60 plate grip
DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15
Plate DOL=1.15); Pg=25.0 psf; Ps=19.2 psf (Lum
DOL=1.15 Plate DOL=1.15); Is=1-1.0; Rough Cat C;
Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Roof design snow load has been reduced to account for
slope.
- 4) Unbalanced snow loads have been considered for this
design.
- 5) This truss has been designed for greater of min roof live
load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on
overhangs non-concurrent with other live loads.
- 6) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.

Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	J13	Jack-Open	2	1	Job Reference (optional)



Scale = 1:17.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	0.00	5-8	>999	240	MT20	197/144
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	5-8	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 11 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
SLIDER Left 2x8 SPF No.2 -- 1-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-3-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=187/0-5-8, (min. 0-1-8), 4=43/ Mechanical, (min. 0-1-8), 5=22/ Mechanical, (min. 0-1-8)
Max Horiz 2=59 (LC 16)
Max Uplift 2=-42 (LC 16), 4=-19 (LC 16)
Max Grav 2=265 (LC 21), 4=61 (LC 21), 5=35 (LC 7)

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

JOINT STRESS INDEX
2 = 0.43, 2 = 0.04 and 3 = 0.00

- NOTES**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-3-12 to 1-8-4, Interior (1) 1-8-4 to 2-2-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps=19.2 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Roof design snow load has been reduced to account for slope.
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 8) Refer to girder(s) for truss to truss connections.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 4 and 42 lb uplift at joint 2.
 - 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- LOAD CASE(S)** Standard

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Technical drawing of a roof truss (Dachstuhl) showing a side elevation and a cross-section.

Side Elevation:

- Roof pitch: 12%
- Ridge beam: 1
- Rafter: 2x4 II
- Ridge cap: 1.5x4 II
- Truss members: 3, 4, 5
- Labels: T1, W4, B1

Cross-section:

- Roof width: 1.8m
- Gable height: 1.7m
- Roof pitch: 12%
- Labels: 1-4-11, 6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	0.00	4-5	>999	240	MT20	197/144
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	4-5	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 6 lb	FT = 20%

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed;
MWFRS (directional) and C-C Exterior(2E) zone;
cantilever left and right exposed ; end vertical left and
right exposed; C-C for members and forces & MWFRS
for reactions shown; Lumber DOL=1.60 plate grip
DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15
Plate DOL=1.15); Pg=25.0 psf; Ps=19.2 psf (Lum
DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C;
Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Roof design snow load has been reduced to account for
slope.
- 5) Unbalanced snow loads have been considered for this
design.

- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 5, 23 lb uplift at joint 3 and 6 lb uplift at joint 4.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	J15	Jack-Open	4	1	Job Reference (optional)

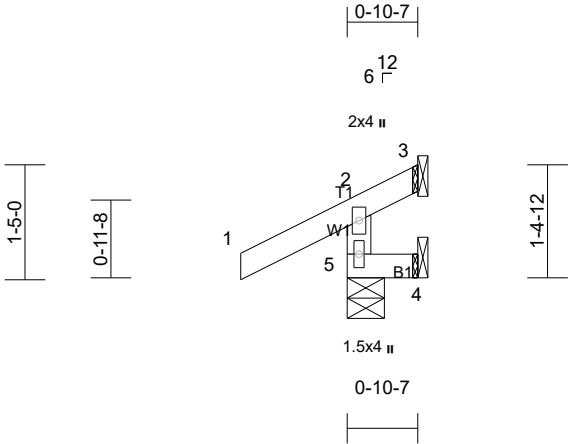
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-1-3-12	0-10-7
1-3-12	0-10-7



Scale = 1:16.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	0.00	4-5	>999	240	MT20	197/144
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	4-5	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 4 lb	FT = 20%

LUMBER

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

BRACING

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS	(lb/size)	3=-47/ Mechanical, (min. 0-1-8), 4=-13/ Mechanical, (min. 0-1-8), 5=201/0-5-8, (min. 0-1-8)
	Max Horiz	5=57 (LC 16)
	Max Uplift	3=-64 (LC 21), 4=-20 (LC 21), 5=-63 (LC 16)
	Max Grav	3=18 (LC 16), 4=8 (LC 14), 5=272 (LC 21)

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
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JOINT STRESS INDEX
2 = 0.57 and 5 = 0.41

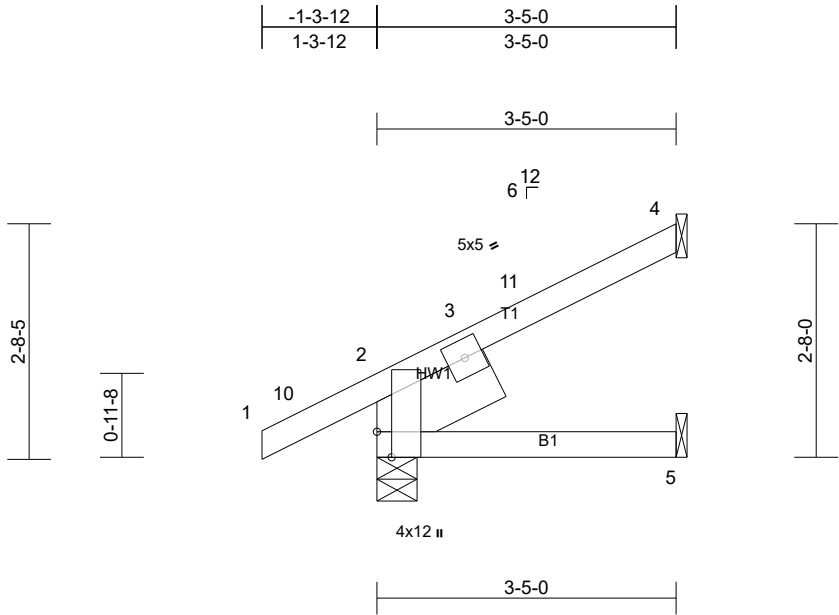
NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps=19.2 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.

- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 63 lb uplift at joint 5, 64 lb uplift at joint 3 and 20 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	J17	Jack-Open	3	1	Job Reference (optional)



Scale = 1:19.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	0.01	5-8	>999	240	MT20	197/144
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.01	5-8	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	2	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0											
											Weight: 14 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
SLIDER Left 2x8 SPF No.2 -- 1-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-5-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=223/0-5-8, (min. 0-1-8), 4=77/ Mechanical, (min. 0-1-8), 5=39/ Mechanical, (min. 0-1-8)
Max Horiz 2=74 (LC 16)
Max Uplift 2=-38 (LC 16), 4=-31 (LC 16)
Max Grav 2=326 (LC 21), 4=116 (LC 21), 5=58 (LC 7)

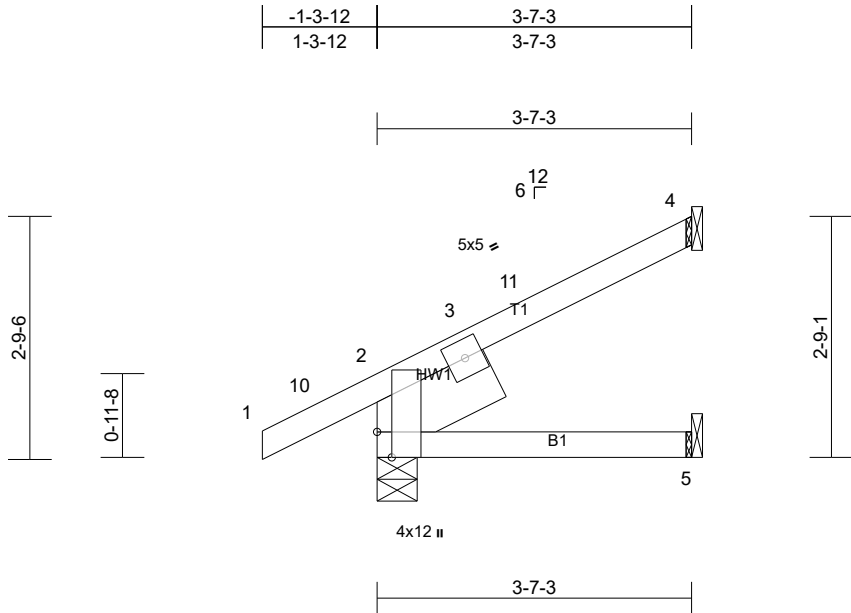
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

JOINT STRESS INDEX
2 = 0.46, 2 = 0.05 and 3 = 0.00

- NOTES**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-3-12 to 1-8-4, Interior (1) 1-8-4 to 3-4-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps=19.2 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Roof design snow load has been reduced to account for slope.
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 8) Refer to girder(s) for truss to truss connections.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 4 and 38 lb uplift at joint 2.
 - 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	J18	Jack-Open	1	1	Job Reference (optional)



Scale = 1:20.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	0.01	5-8	>999	240	MT20	197/144
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.02	5-8	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	2	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0											
											Weight: 14 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
SLIDER Left 2x8 SPF No.2 -- 1-6-0

BRACING

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

REACTIONS (lb/size) 2=230/0-5-8, (min. 0-1-8), 4=82/
Mechanical, (min. 0-1-8), 5=42/
Mechanical, (min. 0-1-8)
Max Horiz 2=77 (LC 16)
Max Uplift 2=-38 (LC 16), 4=-33 (LC 16)
Max Grav 2=337 (LC 21), 4=124 (LC 21),
5=62 (LC 7)

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

JOINT STRESS INDEX

2 = 0.46, 2 = 0.05 and 3 = 0.00

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed;
MWFRS (directional) and C-C Exterior(2E) -1-3-12 to
1-8-4, Interior (1) 1-8-4 to 3-6-7 zone; cantilever left and
right exposed ; end vertical left and right exposed;C-C
for members and forces & MWFRS for reactions shown;
Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15
Plate DOL=1.15); Pg=25.0 psf; Ps=19.2 psf (Lum
DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C;
Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Roof design snow load has been reduced to account for
slope.
- 4) Unbalanced snow loads have been considered for this
design.
- 5) This truss has been designed for greater of min roof live
load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on
overhangs non-concurrent with other live loads.
- 6) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.

- 7) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 33 lb uplift at joint
4 and 38 lb uplift at joint 2.
- 10) This truss is designed in accordance with the 2018
International Residential Code sections R502.11.1 and
R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

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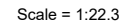


LUMBER		7) * This truss has been designed for a live load of 20.0psf
TOP CHORD	2x4 SPF No.2	on the bottom chord in all areas where a rectangle
BOT CHORD	2x4 SPF No.2	3'-06"-00 tall by 2'-00"-00 wide will fit between the bottom
SLIDER	Left 2x8 SPF No.2 -- 1-6'-0	chord and any other members.
BRACING		8) Refer to girder(s) for truss to truss connections.
TOP CHORD	Structural wood sheathing directly applied or	9) Provide mechanical connection (by others) of truss to
	1'-7'-3" oc purlins.	bearing plate capable of withstanding 10 lb uplift at joint
BOT CHORD	Rigid ceiling directly applied or 10'-0'-0" oc	4 and 46 lb uplift at joint 2.
	bracing.	10) This truss is designed in accordance with the 2018
REACTIONS (lb/size)		International Residential Code sections R502.11.1 and
	2=171/0-5'-8", (min. 0-1'-8"), 4=20/	R802.10.2 and referenced standard ANSI/TPI 1.
	Mechanical, (min. 0-1'-8"), 5=11/	
	Mechanical, (min. 0-1'-8")	LOAD CASE(S) Standard
	Max Horiz 2=50 (LC 16)	
	Max Uplift 2=46 (LC 16), 4=-10 (LC 13)	
	Max Grav 2=237 (LC 21), 4=28 (LC 28), 5=21	
	(LC 7)	
FORCES		
	(lb) - Max. Comp./Max. Ten. - All forces 250	
	(lb) or less except when shown.	

JOINT STRESS INDEX
2 = 0.41, 2 = 0.03 and 3 = 0.00

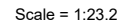
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCdL=4.8psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed;
MWFRS (directional) and C-C Exterior(2E) zone;
cantilever left and right exposed ; end vertical left
and right exposed; C-C for members and forces & MWFRS
for reactions shown; Lumber DOL=1.60 plate grip
DOL=1.60
- 2) TcLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15
Plate DOL=1.15); Pg=25.0 psf; Ps=19.2 psf (Lum
DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C;
Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Roof design snow load has been reduced to account for
slope.
- 4) Unbalanced snow loads have been considered for this
design.
- 5) This truss has been designed for greater of min roof live
load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on
overhangs non-concurrent with other live loads.
- 6) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.

Millard Lumber, Inc., Waverly NE 68462 Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Mon Jun 30 14:49:56 Page: ID: vJnZ7WAm5Tz20N3v7QutZnz5kf1-b5C16EHXaxLuFHUn5Kq2I2o16762Y2s5hhGdLz13IP

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LOAD CASE(S) Standard

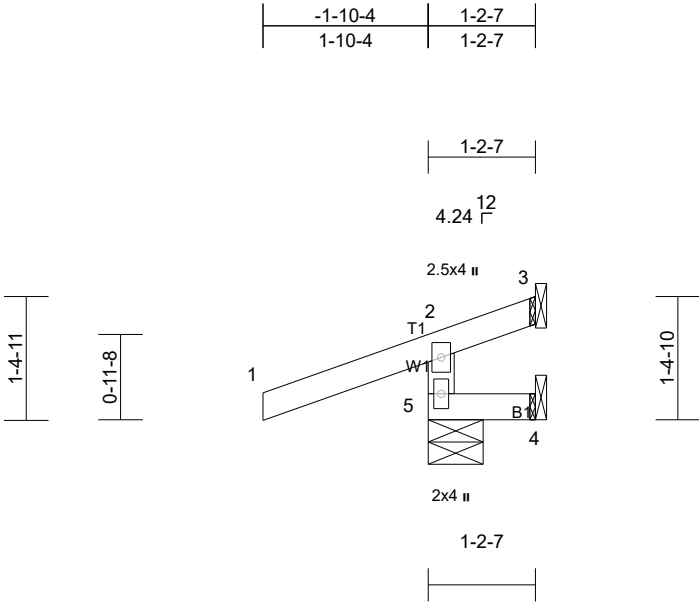
Millard Lumber, Inc., Waverly NE 68462 Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Mon Jun 30 14:49:57 Page: 1
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LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	J22	Jack-Open	1	1	Job Reference (optional)

Millard Lumber, Inc., Waverly NE 68462



Scale = 1:15.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	0.00	4-5	>999	240	MT20	197/144
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	0.00	4-5	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 6 lb	FT = 20%

LUMBER	
TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 1-2-7 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
REACTIONS (lb/size)	
	3=-53/ Mechanical, (min. 0-1-8), 4=-18/ Mechanical, (min. 0-1-8), 5=270/0-7-6, (min. 0-1-8)
Max Horiz	5=56 (LC 16)
Max Uplift	3=-73 (LC 21), 4=-28 (LC 21), 5=-107 (LC 16)
Max Grav	3=28 (LC 16), 4=11 (LC 12), 5=366 (LC 21)
FORCES	
	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-5=-317/271
JOINT STRESS INDEX	
	2 = 0.69 and 5 = 0.58

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps=19.2 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Roof design snow load has been reduced to account for slope.

- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 107 lb uplift at joint 5, 73 lb uplift at joint 3 and 28 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

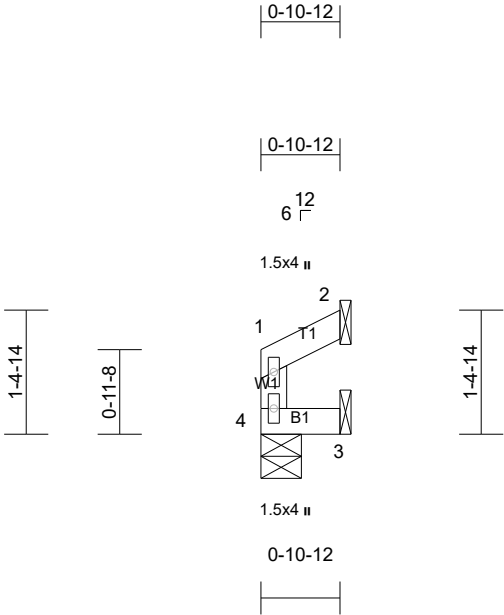
Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	J23	Jack-Open	1	1	Job Reference (optional)

Millard Lumber, Inc., Waverly NE 68462

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Scale = 1:24.1

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.02	Vert(LL)	0.00	4	>999	240	MT20
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	4	>999	180	197/144
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MR							
BCDL	10.0										
										Weight: 3 lb	FT = 20%

LUMBER		
TOP CHORD	2x4 SPF No.2	
BOT CHORD	2x4 SPF No.2	
WEBS	2x4 SPF No.2	
BRACING		
TOP CHORD	Structural wood sheathing directly applied or 0-10-12 oc purlins, except end verticals.	
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.		

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 16 lb uplift at joint 2 and 6 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

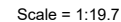
LOAD CASE(S) Standard

REACTIONS	(lb/size)	2=21/ Mechanical, (min. 0-1-8), 3=8/ Mechanical, (min. 0-1-8), 4=29/0-5-8, (min. 0-1-8)
	Max Horiz	4=27 (LC 16)
	Max Uplift	2=-16 (LC 16), 3=-6 (LC 16)
	Max Grav	2=30 (LC 27), 3=15 (LC 14), 4=37 (LC 2)
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	

JOINT STRESS INDEX
1 = 0.17 and 4 = 0.29

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps=19.2 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Roof design snow load has been reduced to account for slope.
 - Unbalanced snow loads have been considered for this design.

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[illegible]

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TC DL=4.8psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed;
MWFRS (directional) and C-C Exterior(2E) -1-3-12 to
1-8-4, Interior (1) 1-8-4 to 3-3-12 zone; cantilever left and
right exposed ; end vertical left and right exposed; C-C
for members and forces & MWFRS for reactions shown;
Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15
Plate DOL=1.15); Pg=25.0 psf; Ps=19.2 psf (Lum
DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C;
Partially Exp.; Ce=1.0; Cs=1.0; Ct=1.10
- 3) Roof design snow load has been reduced to account for
slope.
- 4) Unbalanced snow loads have been considered for this
design.
- 5) This truss has been designed for greater of min roof live
load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on
overhangs non-concurrent with other live loads.
- 6) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 4 and 38 lb uplift at joint 2.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	J25	Jack-Open	1	1	Job Reference (optional)

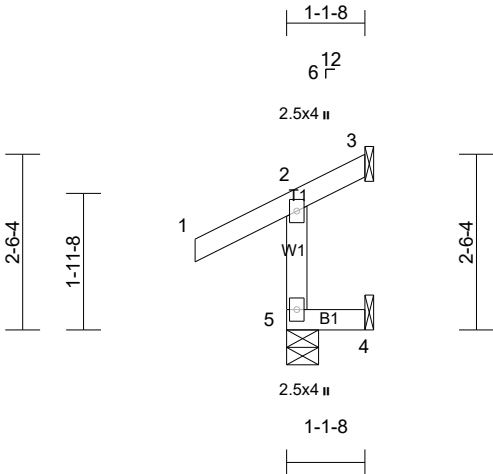
Millard Lumber, Inc., Waverly NE 68462

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-1-3-12	1-1-8
1-3-12	1-1-8



Scale = 1:20.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	0.00	4-5	>999	240	MT20	197/144
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	0.00	4-5	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MR								
BCDL	10.0											
											Weight: 6 lb	FT = 20%

LUMBER		
TOP CHORD	2x4 SPF No.2	
BOT CHORD	2x4 SPF No.2	
WEBS	2x4 SPF No.2	
BRACING		
TOP CHORD	Structural wood sheathing directly applied or 1-1-8 oc purlins, except end verticals.	
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	
	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.	

- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 24 lb uplift at joint 5, 44 lb uplift at joint 3 and 50 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

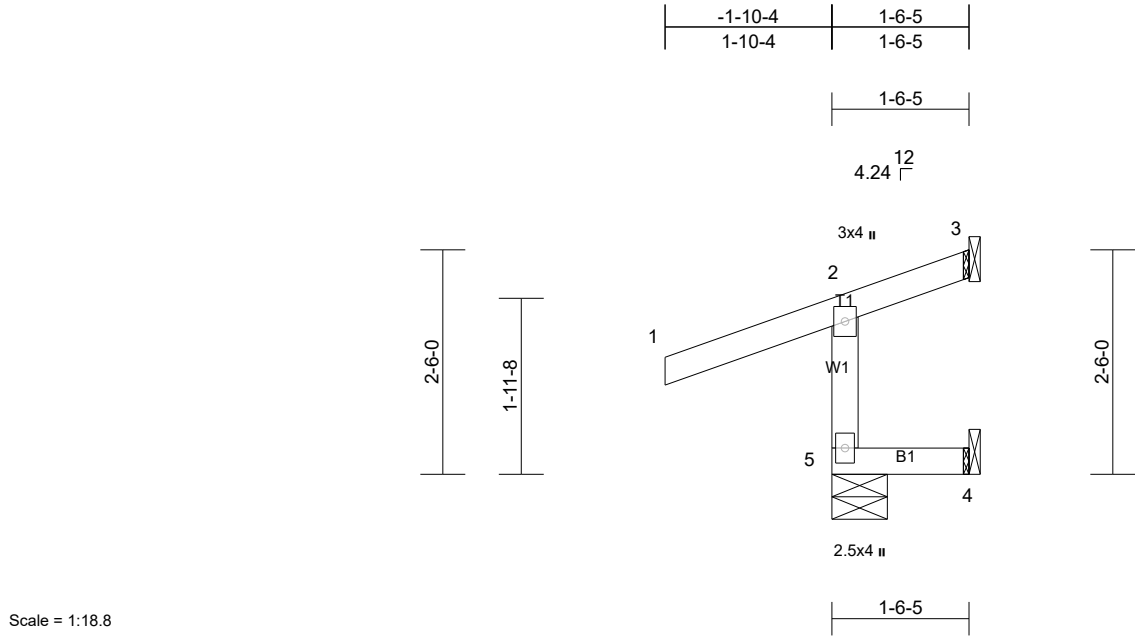
LOAD CASE(S) Standard

REACTIONS	(lb/size)	3=-26/ Mechanical, (min. 0-1-8), 4=0/ Mechanical, (min. 0-1-8), 5=188/0-5-8, (min. 0-1-8)
	Max Horiz	5=83 (LC 16)
	Max Uplift	3=-44 (LC 20), 4=-50 (LC 16), 5=-24 (LC 12)
	Max Grav	3=13 (LC 14), 4=37 (LC 14), 5=257 (LC 21)
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	

JOINT STRESS INDEX
2 = 0.65 and 5 = 0.79

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps=19.2 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Roof design snow load has been reduced to account for slope.
 - Unbalanced snow loads have been considered for this design.

Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	J26	Jack-Open	1	1	Job Reference (optional)



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	0.00	4-5	>999	240	MT20	197/144
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	0.00	4-5	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MR							Weight: 8 lb	FT = 20%
BCDL	10.0											

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 1-6-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 3=-31/ Mechanical, (min. 0-1-8), 4=-1/ Mechanical, (min. 0-1-8), 5=257/0-7-6, (min. 0-1-8)
Max Horiz 5=82 (LC 16)
Max Uplift 3=-56 (LC 20), 4=-25 (LC 16), 5=-58 (LC 12)
Max Grav 3=12 (LC 12), 4=26 (LC 14), 5=351 (LC 21)

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

TOP CHORD 2-5=-316/239

JOINT STRESS INDEX
2 = 0.91 and 5 = 0.90

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps=19.2 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Roof design snow load has been reduced to account for slope.

- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 58 lb uplift at joint 5, 56 lb uplift at joint 3 and 25 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	J27	Jack-Open	1	1	Job Reference (optional)

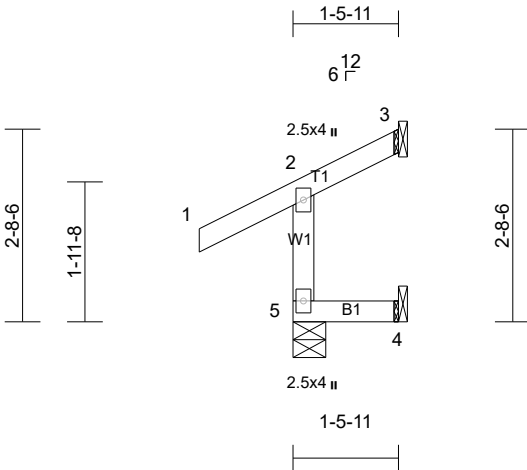
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-1-3-12	1-5-11
1-3-12	1-5-11



Scale = 1:21.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	0.00	4-5	>999	240	MT20	197/144
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	0.00	4-5	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MR								
BCDL	10.0											
											Weight: 7 lb	FT = 20%

LUMBER		
TOP CHORD	2x4 SPF No.2	
BOT CHORD	2x4 SPF No.2	
WEBS	2x4 SPF No.2	
BRACING		
TOP CHORD	Structural wood sheathing directly applied or 1-5-11 oc purlins, except end verticals.	
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	
	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.	

REACTIONS	(lb/size)	3=-1/ Mechanical, (min. 0-1-8), 4=5/ Mechanical, (min. 0-1-8), 5=184/0-5-8, (min. 0-1-8)
	Max Horiz	5=88 (LC 16)
	Max Uplift	3=-28 (LC 16), 4=-35 (LC 16), 5=-18 (LC 12)
	Max Grav	3=21 (LC 14), 4=33 (LC 14), 5=256 (LC 21)

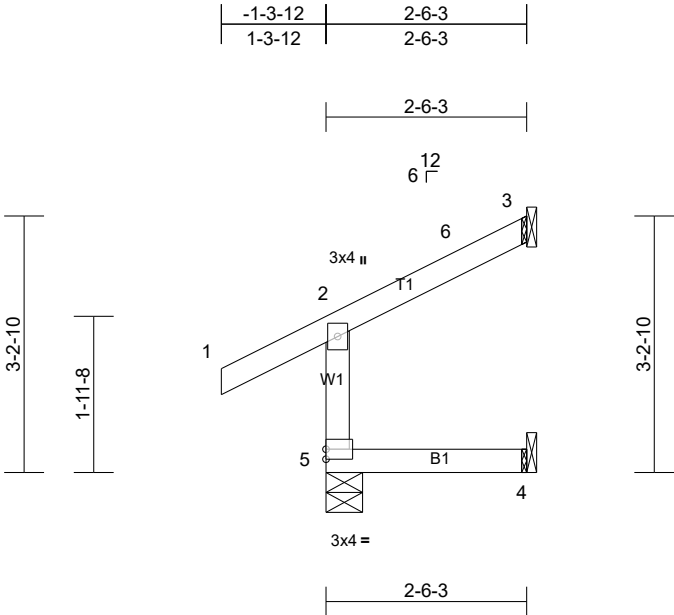
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
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JOINT STRESS INDEX	2 = 0.74 and 5 = 0.86
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- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps=19.2 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Roof design snow load has been reduced to account for slope.
 - Unbalanced snow loads have been considered for this design.

- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 18 lb uplift at joint 5, 28 lb uplift at joint 3 and 35 lb uplift at joint 4.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	J28	Jack-Open	1	1	Job Reference (optional)



Scale = 1:21.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	0.01	4-5	>999	240	MT20	197/144
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	0.01	4-5	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.04	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 10 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-6-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 5, 40 lb uplift at joint 3 and 16 lb uplift at joint 4.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

REACTIONS	(lb/size)	3=45/ Mechanical, (min. 0-1-8), 4=19/ Mechanical, (min. 0-1-8), 5=203/0-5-8, (min. 0-1-8)
	Max Horiz	5=102 (LC 16)
	Max Uplift	3=-40 (LC 16), 4=-16 (LC 16), 5=-7 (LC 12)
	Max Grav	3=66 (LC 28), 4=43 (LC 7), 5=290 (LC 21)

LOAD CASE(S) Standard

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-5=-262/134

JOINT STRESS INDEX
2 = 0.90 and 5 = 0.71

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-3-12 to 1-8-4, Interior (1) 1-8-4 to 2-5-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps=19.2 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Roof design snow load has been reduced to account for slope.

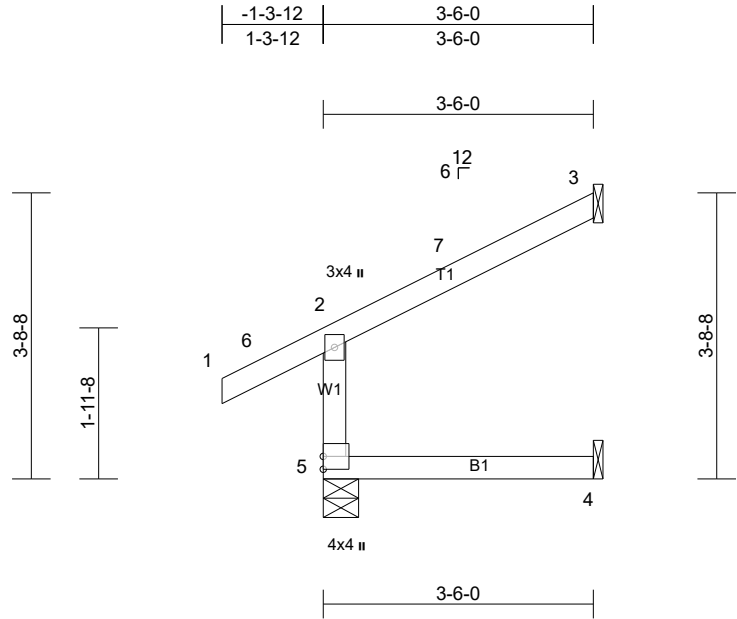
Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	J29	Jack-Open	1	1	Job Reference (optional)

Millard Lumber, Inc., Waverly NE 68462

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Mon Jun 30 14:49:59

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Scale = 1:23.4

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	0.02	4-5	>999	240	MT20
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	0.02	4-5	>999	180	197/144
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.07	3	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MR							
BCDL	10.0										
Weight: 12 lb FT = 20%											

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-6-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 3=78/ Mechanical, (min. 0-1-8), 4=32/ Mechanical, (min. 0-1-8), 5=233/0-5-8, (min. 0-1-8)
Max Horiz 5=116 (LC 16)
Max Uplift 3=-51 (LC 16), 4=-7 (LC 16), 5=-10 (LC 16)
Max Grav 3=120 (LC 21), 4=62 (LC 7), 5=343 (LC 21)

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

TOP CHORD 2-5=-310/149

JOINT STRESS INDEX

2 = 0.91 and 5 = 0.89

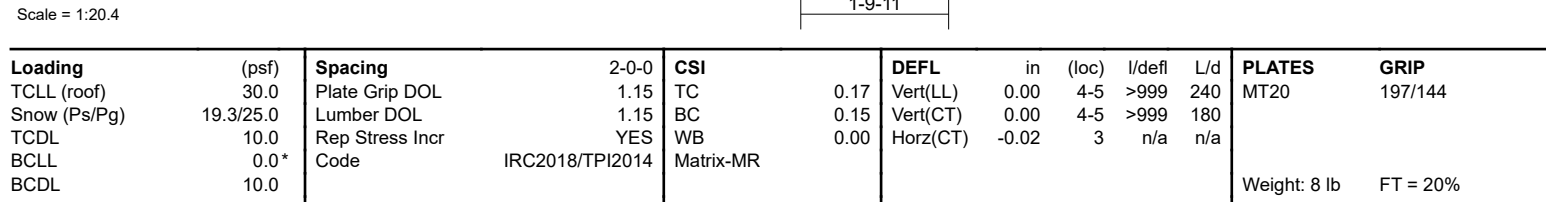
NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-3-12 to 1-8-4, Interior (1) 1-8-4 to 3-5-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps=19.2 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Roof design snow load has been reduced to account for slope.

- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 10 lb uplift at joint 5, 51 lb uplift at joint 3 and 7 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Millard Lumber, Inc., Waverly NE 68462 Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Mon Jun 30 14:50:00 Page: ID:gOKRxtg6CNF13rH aFeiGez5kee-UsRYycK2dArKjuoYKA1 1uyymUcVQUshrcJE1Uzz13IL



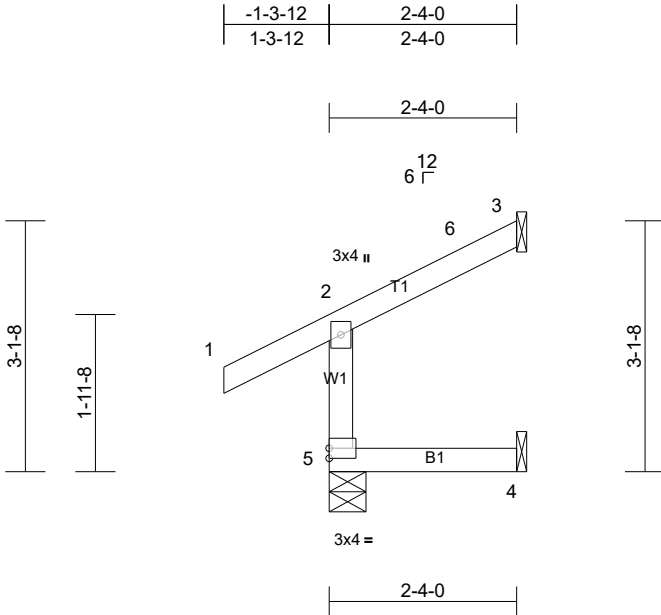
Max Horiz 5=93 (LC 16)
 Max Uplift 3=-33 (LC 16), 4=-27 (LC 16),
 5=-14 (LC 12)
 Max Grav 3=34 (LC 28), 4=33 (LC 14), 5=264
 (LC 21)

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

JOINT STRESS INDEX
 2 = 0.81 and 5 = 0.91

- ## NOTES
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCFL=4.8psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed;
MWFRS (directional) and C-C Exterior(2E) zone;
cantilever left and right exposed ; end vertical left and
right exposed; C-C for members and forces & MWFRS
for reactions shown; Lumber DOL=1.60 plate grip
DOL=1.60
 - 3) TCFL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15
Plate DOL=1.15); Pg=25.0 psf; Ps=19.2 psf (Lum
DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C;
Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 4) Roof design snow load has been reduced to account for
slope.
 - 5) Unbalanced snow loads have been considered for this
design.

Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	J31	Jack-Open	1	1	Job Reference (optional)



Scale = 1:21.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	0.01	4-5	>999	240	MT20	197/144
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	0.01	4-5	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.03	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 9 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 3=38/ Mechanical, (min. 0-1-8), 4=17/ Mechanical, (min. 0-1-8), 5=198/0-5-8, (min. 0-1-8)
Max Horiz 5=99 (LC 16)
Max Uplift 3=-38 (LC 16), 4=-19 (LC 16), 5=-9 (LC 12)
Max Grav 3=58 (LC 28), 4=39 (LC 7), 5=282 (LC 21)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-254/131

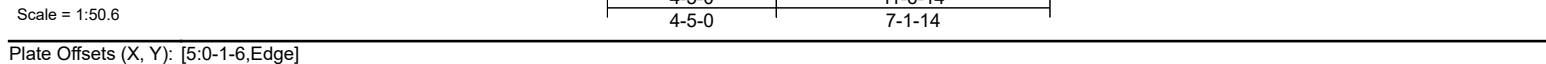
JOINT STRESS INDEX
2 = 0.88 and 5 = 0.68

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-3-12 to 1-8-4, Interior (1) 1-8-4 to 2-3-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps=19.2 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Roof design snow load has been reduced to account for slope.

- 5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 9 lb uplift at joint 5, 38 lb uplift at joint 3 and 19 lb uplift at joint 4.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Millard Lumber, Inc., Waverly NE 68462 Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Mon Jun 30 14:50:00 Page: ID:HWwa isth|LbVY4so8uXsz5kc1-UsRYvcK2dArk|uoYKA| 1uvnicWMUshzhcJE1Uzz13IL



LUMBER		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.
TOP CHORD	2x4 SPF No.2	
BOT CHORD	2x4 SPF No.2	
OTHERS	2x4 SPF No.2	
BRACING		7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 11.
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (10-0-0 max.): 5-7.	8) Non Standard bearing condition. Review required.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 10-11.	9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.	10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
LOAD CASE(S) Standard		
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate		

JOINT STRESS INDEX
 1 = 0.26, 2 = 0.15, 3 = 0.11, 4 = 0.13, 5 = 0.05, 6 = 0.12, 7
 = 0.19, 8 = 0.15, 9 = 0.12, 10 = 0.11, 11 = 0.04 and 12 =
 0.11

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) **TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps= varies (12.9 psf Lum DOL=1.15 Plate DOL=1.15) see load cases; Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=0.67,1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - 3) Roof design snow load has been reduced to account for slope.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

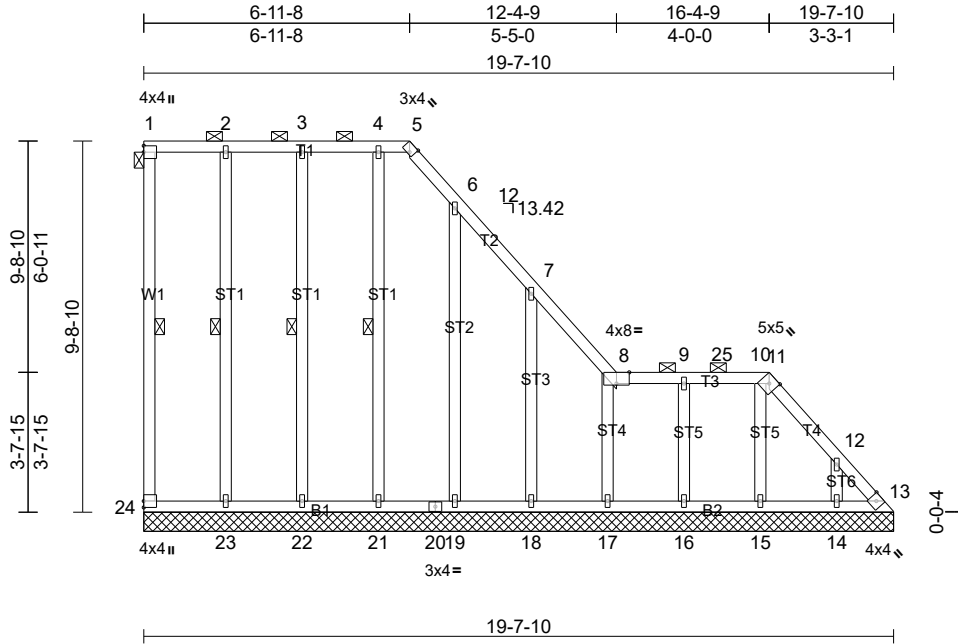
Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	LAY02	Lay-In Gable	1	1	Job Reference (optional)

Millard Lumber, Inc., Waverly NE 68462

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Mon Jun 30 14:50:01

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Scale = 1:55.5

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	n/a	-	n/a	999	MT20
Snow (Ps/Pg)	12.9/25.0	Lumber DOL	1.15	BC	0.27	Vert(TL)	n/a	-	n/a	999	197/144
TCDL	10.0	Rep Stress Incr	YES	WB	0.26	Horiz(TL)	0.01	13	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-S							
BCDL	10.0										
Weight: 119 lb FT = 20%											

LUMBER

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2
OTHERS	2x4 SPF No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-5, 8-11.
BOT CHORD	Rigid ceiling directly applied or 8-8-0 oc bracing.
WEBS	1 Row at midpt 1-24, 2-23, 3-22, 4-21

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS

All bearings	19-7-10.
(lb) - Max Horiz	24=-329 (LC 12)
Max Uplift	All uplift 100 (lb) or less at joint(s) 14, 16, 17, 19, 21, 22, 23, 24 except 13=-189 (LC 13), 15=-257 (LC 10), 18=-108 (LC 14)
Max Grav	All reactions 250 (lb) or less at joint (s) 14, 16, 18, 19, 21, 22, 23, 24 except 13=302 (LC 10), 15=308 (LC 24), 17=282 (LC 23)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces	250 (lb) or less except when shown.
TOP CHORD	6-7=-297/350, 7-8=-410/440, 8-9=-329/334, 9-25=-328/333, 10-25=-328/333, 10-11=-328/333, 11-12=-535/537, 12-13=-660/651
BOT CHORD	23-24=-416/429, 22-23=-416/429, 21-22=-416/429, 20-21=-416/429, 19-20=-416/429, 18-19=-416/429, 17-18=-416/429, 16-17=-430/446, 15-16=-430/446, 14-15=-430/446, 13-14=-430/446
WEBS	10-15=-524/477

JOINT STRESS INDEX

1 = 0.88, 2 = 0.51, 3 = 0.51, 4 = 0.51, 5 = 0.50, 6 = 0.51, 7 = 0.51, 8 = 0.42, 9 = 0.51, 10 = 0.43, 11 = 0.23, 11 = 0.43, 12 = 0.51, 13 = 0.21, 14 = 0.51, 15 = 0.51, 16 = 0.51, 17 = 0.51, 18 = 0.51, 19 = 0.51, 20 = 0.26, 21 = 0.51, 22 = 0.51, 23 = 0.51 and 24 = 0.90

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) 0-1-12 to 3-1-12, Exterior(2N) 3-1-12 to 6-11-8, Corner(3R) 6-11-8 to 10-1-12, Exterior(2N) 10-1-12 to 16-4-9, Corner(3E) 16-4-9 to 19-3-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- **TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps= varies (12.9 psf Lum DOL=1.15 Plate DOL=1.15) see load cases; Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00,0.67,1.00,0.67; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
- Roof design snow load has been reduced to account for slope.
- Provide adequate drainage to prevent water ponding.
- All plates are 1.5x4 (||) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 24, 23, 22, 21, 19, 17, 16, 14 except (jt=lb) 13=188, 18=108, 15=256.

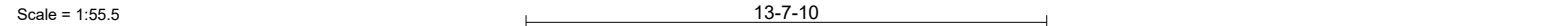
13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-5=-59, 5-8=-46, 8-11=-59, 11-13=-46, 13-24=-20

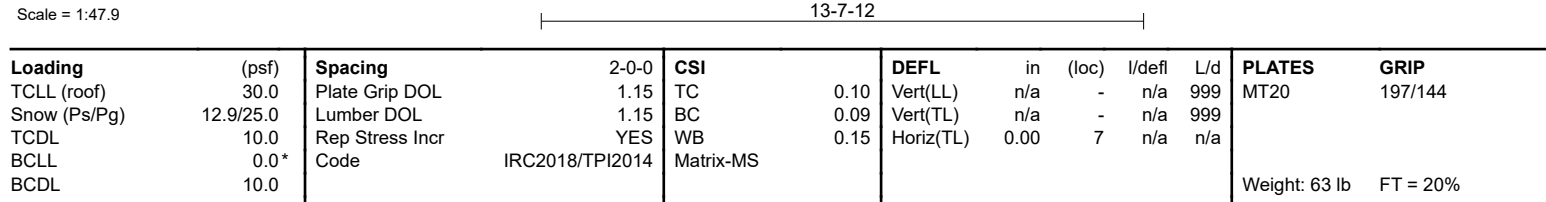
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[illegible]

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-4=-59, 4-9=-46, 9-16=-20

LOAD CASE(S) Standard

Millard Lumber, Inc., Waverly NE 68462 Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Mon Jun 30 14:50:02 Page: ID:k5J0oRTVffag KgR6gCxZz5kdc-y2?wAyKqOTzBL2NlttGDa5VyS0sVDHhgrzboQz13IK



MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

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

JOINT STRESS INDEX
1 = 0.33, 2 = 0.17, 3 = 0.14, 4 = 0.15, 5 = 0.14, 6 = 0.17, 7 = 0.33, 8 = 0.12, 9 = 0.11, 10 = 0.10, 11 = 0.11 and 12 = 0.12

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCDF=4.8psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed;
MWFRS (directional) and C-C Exterior(2E) 0-0-0 to
2-10-2, Interior (1) 2-10-2 to 6-10-2, Exterior(2R) 6-10-2
to 9-10-2, Interior (1) 9-10-2 to 13-8-3 zone; cantilever
left and right exposed ; end vertical left and right
exposed; C-C for members and forces & MWFRS for
reactions shown; Lumber DOL=1.60 plate grip
DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15
Plate DOL=1.15); Pg=25.0 psf; Ps=12.9 psf (Lum
DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C;
Partially Exp.; Ce=1.0; Cs=0.67; Ct=1.10

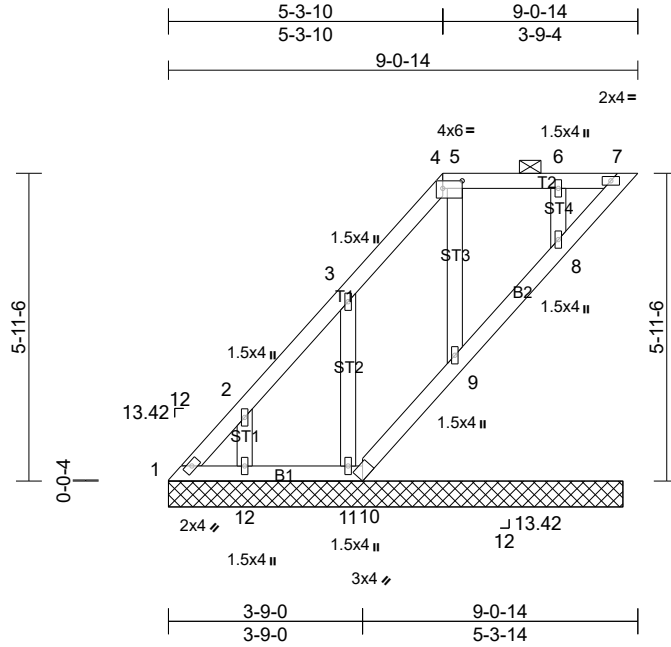
Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	LAY05	Lay-In Gable	1	1	Job Reference (optional)

Millard Lumber, Inc., Waverly NE 68462

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Mon Jun 30 14:50:02

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Scale = 1:31.5

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20
Snow (Ps/Pg)	12.9/25.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	n/a	-	n/a	999	197/144
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	7	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS							
BCDL	10.0										
										Weight: 36 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 7-8.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS

All bearings 8-9-7.
(lb) - Max Horiz 1=159 (LC 14)
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 7, 8, 9, 10, 11, 12
Max Grav All reactions 250 (lb) or less at joint (s) 1, 7, 8, 9, 10, 11, 12

FORCES

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

JOINT STRESS INDEX

1 = 0.18, 2 = 0.12, 3 = 0.15, 4 = 0.13, 4 = 0.13, 5 = 0.03, 6 = 0.09, 7 = 0.06, 8 = 0.11, 9 = 0.11, 10 = 0.05, 11 = 0.11 and 12 = 0.08

NOTES

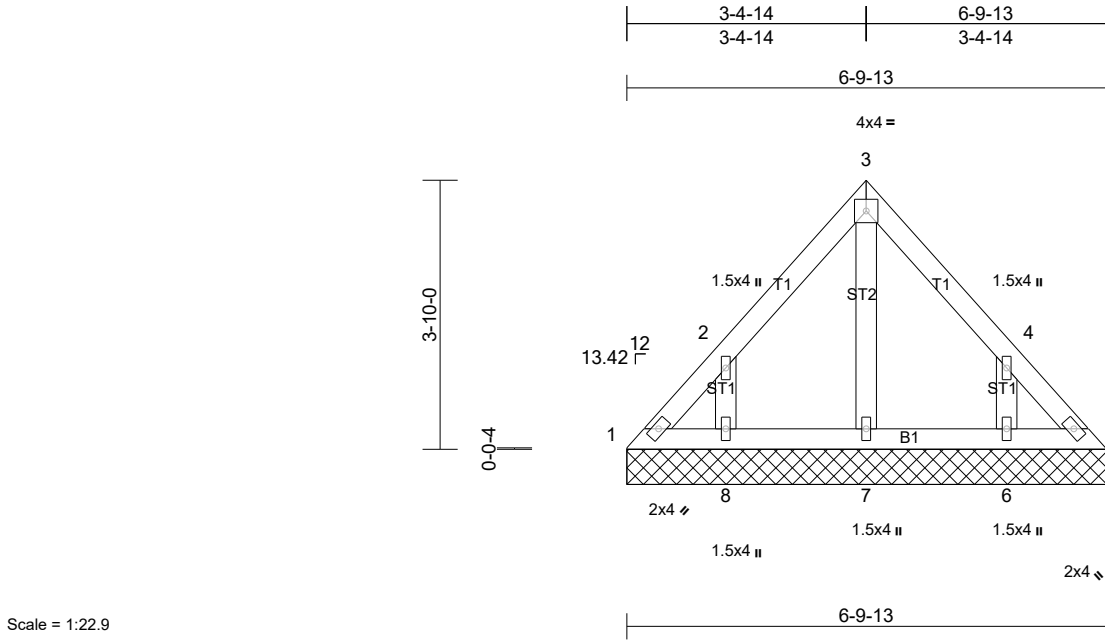
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-4 to 3-0-4, Interior (1) 3-0-4 to 5-3-14, Exterior(2R) 5-3-14 to 8-8-6 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 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.
- **TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps= varies (12.9 psf Lum DOL=1.15 Plate DOL=1.15) see load cases; Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=0.67,1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
- Roof design snow load has been reduced to account for slope.
- Provide adequate drainage to prevent water ponding.
- Gable studs spaced at 0-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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, 12, 11, 9, 8.
- Non Standard bearing condition. Review required.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-4=-46, 4-7=-59, 1-10=-20, 7-10=-20

Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	LAY06	Lay-In Gable	1	1	Job Reference (optional)



Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20
Snow (Ps/Pg)	12.9/25.0	Lumber DOL	1.15	BC	0.02	Vert(TL)	n/a	-	n/a	999	197/144
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	5	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP							
BCDL	10.0										
										Weight: 24 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
OTHERS 2x4 SPF No.2

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 1, 5, 8, 6.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

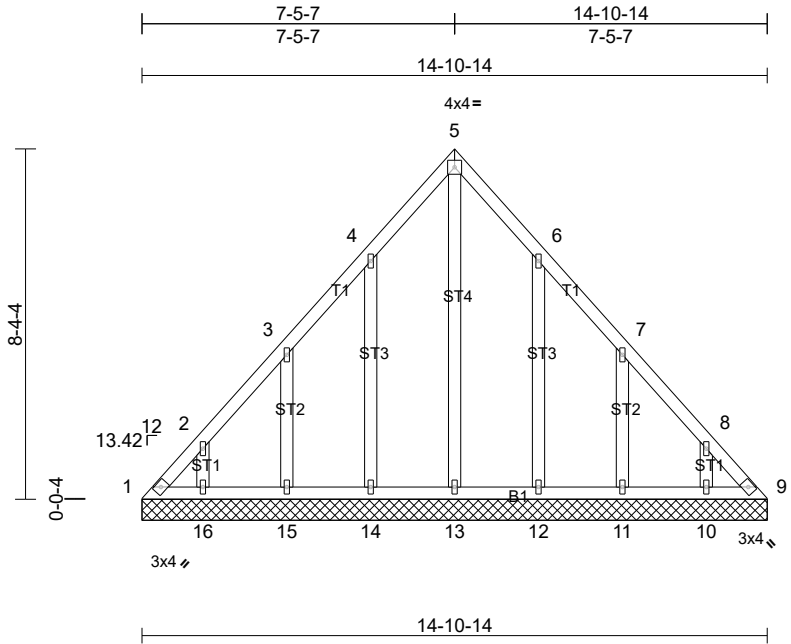
REACTIONS All bearings 6-9-13.
(lb) - Max Horiz 1=92 (LC 13)
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 5, 6, 8
Max Grav All reactions 250 (lb) or less at joint (s) 1, 5, 6, 7, 8

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

JOINT STRESS INDEX
1 = 0.10, 2 = 0.14, 3 = 0.04, 4 = 0.14, 5 = 0.10, 6 = 0.12, 7 = 0.05 and 8 = 0.12

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-4 to 3-0-4, Interior (1) 3-0-4 to 3-5-2, Exterior(2R) 3-5-2 to 6-2-7, Interior (1) 6-2-7 to 6-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps=12.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=0.67; Ct=1.10
- 4) Roof design snow load has been reduced to account for slope.
- 5) Gable requires continuous bottom chord bearing.

Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	LAY07	Lay-In Gable	1	1	Job Reference (optional)



Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20
Snow (Ps/Pg)	12.9/25.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999	197/144
TCDL	10.0	Rep Stress Incr	YES	WB	0.17	Horiz(TL)	0.00	9	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS							
BCDL	10.0										
										Weight: 73 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
OTHERS 2x4 SPF No.2

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

- All plates are 1.5x4 (||) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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, 9, 14, 15, 16, 12, 11, 10.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

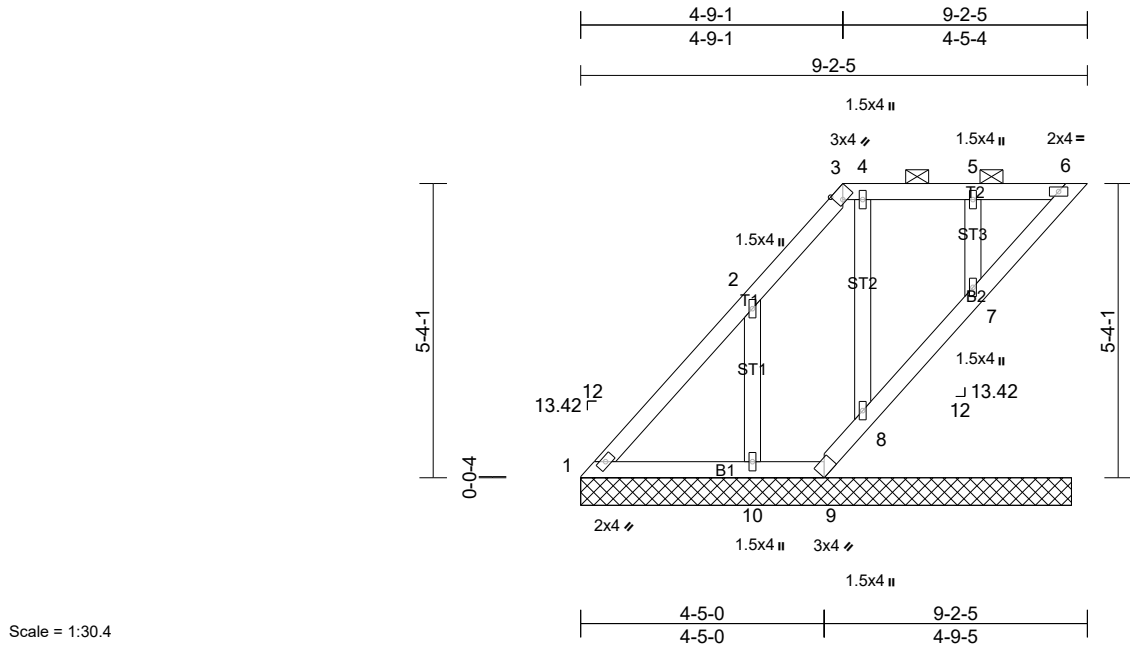
REACTIONS All bearings 14-10-14.
(lb) - Max Horiz 1=207 (LC 13)
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 9, 10, 11, 12, 14, 15, 16
Max Grav All reactions 250 (lb) or less at joint (s) 1, 9, 10, 11, 12, 13, 14, 15, 16

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

JOINT STRESS INDEX
1 = 0.10, 2 = 0.12, 3 = 0.14, 4 = 0.14, 5 = 0.16, 6 = 0.14, 7 = 0.14, 8 = 0.12, 9 = 0.10, 10 = 0.08, 11 = 0.12, 12 = 0.11, 13 = 0.08, 14 = 0.11, 15 = 0.12 and 16 = 0.08

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-4 to 3-0-4, Interior (1) 3-0-4 to 7-5-10, Exterior(2R) 7-5-10 to 10-5-10, Interior (1) 10-5-10 to 14-11-1 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps=12.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=0.67; Ct=1.10
 - Roof design snow load has been reduced to account for slope.

Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	LAY08	Lay-In Gable	1	1	Job Reference (optional)



Scale = 1:30.4

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20
Snow (Ps/Pg)	12.9/25.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999	197/144
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	6	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS							
BCDL	10.0										
										Weight: 35 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2

OTHERS 2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 9-2-9 oc purlins, except 2-0-0 oc purlins: 3-6.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- LOAD CASE(S)** Standard
- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (lb/ft)
- Vert: 1-3=-46, 3-6=-59, 1-9=-20, 6-9=-20

REACTIONS All bearings 8-10-14.
(lb) - Max Grav All reactions 250 (lb) or less at joint
(s) 1, 7, 8, 9 except 10=323 (LC 2)

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

JOINT STRESS INDEX
1 = 0.51, 2 = 0.16, 3 = 0.11, 4 = 0.11, 5 = 0.10, 6 = 0.12, 7 = 0.13, 8 = 0.15, 9 = 0.06 and 10 = 0.13

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
- 2) **TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps= varies (12.9 psf Lum DOL=1.15 Plate DOL=1.15) see load cases; Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=0.67,1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
- 3) Roof design snow load has been reduced to account for slope.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Non Standard bearing condition. Review required.

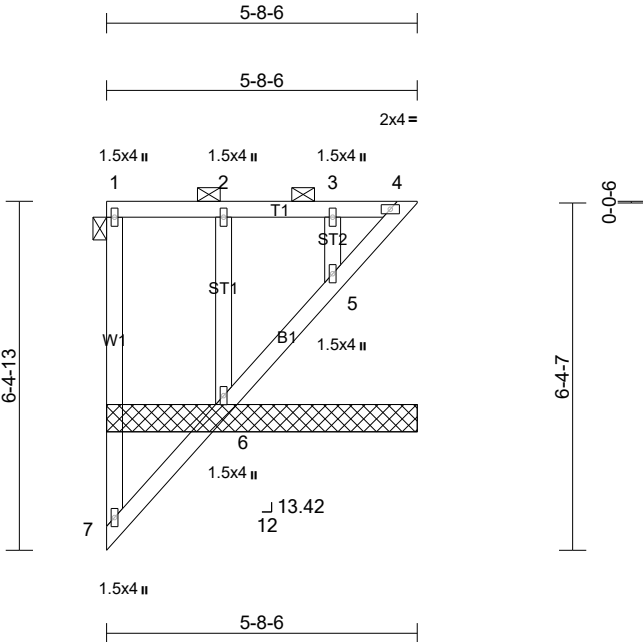
Millard Lumber, Inc., Waverly NE 68462 Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Mon Jun 30 14:50:03 Page: 10



LOAD CASE(S) Standard

- 1) Unbalanced roof live loads have been considered for this design.
- 2) TCLL: ASCE 7-16; $P_r=30.0$ psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); $P_g=25.0$ psf; $P_s=12.9$ psf (Lum DOL=1.15 Plate DOL=1.15); $I_s=1.0$; Rough Cat C; Partially Exp.; $C_e=1.0$; $C_s=0.67$; $C_t=1.10$
- 3) Roof design snow load has been reduced to account for slope.
- 4) All plates are 1.5x4 (||) MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed on one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 2'-0" oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-0"-00" tall by 2'-00"-00" wide will fit between the bottom chord and any other members.

Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	LAY10	Lay-In Gable	1	1	Job Reference (optional)



Scale = 1:41.5

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	n/a	-	n/a	999	MT20
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.13	Vert(TL)	n/a	-	n/a	999	197/144
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	-0.03	4	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP							
BCDL	10.0										
										Weight: 28 lb	FT = 20%

- LUMBER**
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2
 OTHERS 2x4 SPF No.2

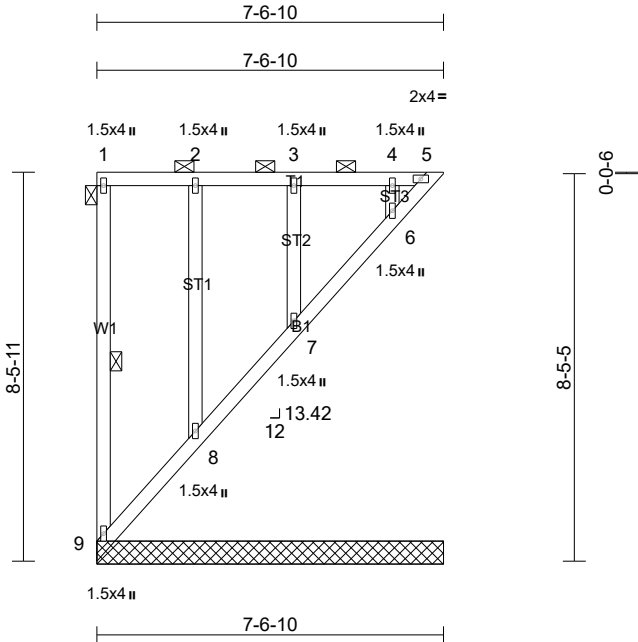
BRACING
 TOP CHORD 2-0-0 oc purlins: 1-4, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
- REACTIONS** All bearings 5-8-6.
 (lb) - Max Horiz 7=-148 (LC 12)
 Max Uplift All uplift 100 (lb) or less at joint(s) 4, 6, 7 except 5=-138 (LC 14)
 Max Grav All reactions 250 (lb) or less at joint (s) 4, 6, 7 except 5=308 (LC 23)
- FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 3-5=-199/304
- JOINT STRESS INDEX**
 1 = 0.13, 2 = 0.17, 3 = 0.25, 4 = 0.20, 5 = 0.21, 6 = 0.15 and 7 = 0.13
- NOTES**
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- 4) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps=19.2 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 5) Roof design snow load has been reduced to account for slope.
 6) Provide adequate drainage to prevent water ponding.
 7) Gable requires continuous bottom chord bearing.
 8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 9) Gable studs spaced at 2-0-0 oc.
 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 11) * 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.
 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 7, 4, 6 except (jt=lb) 5=138.
 13) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 7, 4, 6, 5.
 14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	LAY11	Lay-In Gable	1	1	Job Reference (optional)



Scale = 1:49.1

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	n/a	-	n/a	999	MT20
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999	197/144
TCDL	10.0	Rep Stress Incr	YES	WB	0.10	Horiz(TL)	-0.01	5	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP							
BCDL	10.0										
										Weight: 41 lb	FT = 20%

LUMBER	
TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2
OTHERS	2x4 SPF No.2
BRACING	
TOP CHORD	2-0-0 oc purlins: 1-5, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
	10-0-0 oc bracing: 8-9.
WEBS	1 Row at midpt 1-9
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.	

REACTIONS	
All bearings 7-6-10.	
(lb) - Max Horiz	9=-200 (LC 12)
Max Uplift	All uplift 100 (lb) or less at joint(s) 5, 7, 8, 9 except 6=-153 (LC 14)
Max Grav	All reactions 250 (lb) or less at joint (s) 5, 7, 8, 9 except 6=272 (LC 23)

FORCES	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
BOT CHORD	8-9=-252/214, 6-7=-279/229
WEBS	4-6=-176/281

JOINT STRESS INDEX	
1 = 0.17, 2 = 0.16, 3 = 0.16, 4 = 0.24, 5 = 0.41, 6 = 0.19, 7 = 0.14, 8 = 0.14 and 9 = 0.15	

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.

- TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps=19.2 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
- Roof design snow load has been reduced to account for slope.
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-1-12 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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) 9, 5, 8, 7 except (jt=lb) 6=152.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 9, 5, 8, 7, 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard

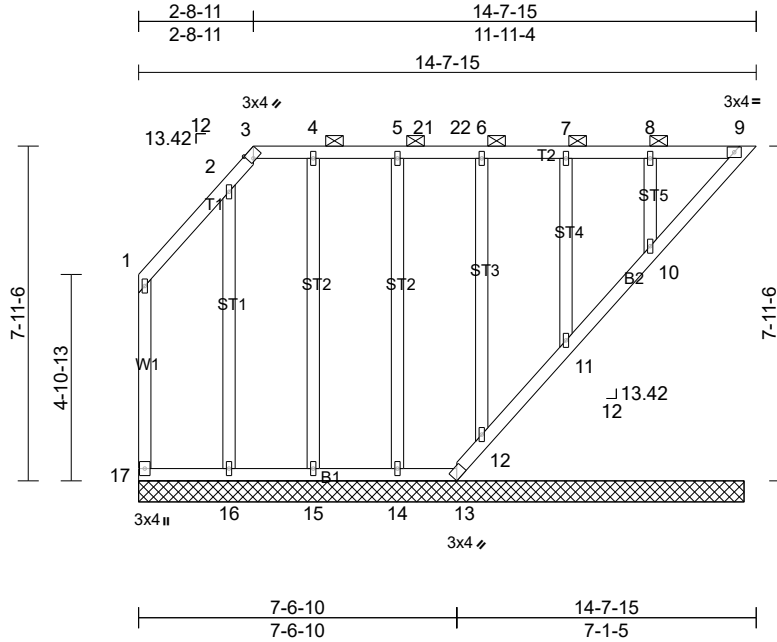
Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	LAY12	Lay-In Gable	1	1	Job Reference (optional)

Millard Lumber, Inc., Waverly NE 68462

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Scale = 1:50.4

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	n/a	-	n/a	999	MT20
Snow (Ps/Pg)	12.9/25.0	Lumber DOL	1.15	BC	0.34	Vert(TL)	n/a	-	n/a	999	197/144
TCDL	10.0	Rep Stress Incr	YES	WB	0.17	Horiz(TL)	-0.15	9	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS							
BCDL	10.0										
Weight: 84 lb FT = 20%											

LUMBER

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2
OTHERS	2x4 SPF No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 3-9.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 12-13 8-8-5 oc bracing: 10-11.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS

All bearings	14-4-8.
(lb) - Max Horiz	17=187 (LC 14)
Max Uplift	All uplift 100 (lb) or less at joint(s) 9, 12, 14, 15, 16, 17 except 10=-324 (LC 14), 11=-133 (LC 12), 13=-128 (LC 12)
Max Grav	All reactions 250 (lb) or less at joint (s) 9, 11, 12, 13, 14, 15, 16, 17 except 10=529 (LC 23)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces	250 (lb) or less except when shown.
BOT CHORD	12-13=-329/268, 11-12=-269/207, 10-11=-385/320
WEBS	8-10=-400/351

JOINT STRESS INDEX

1 = 0.71, 2 = 0.15, 3 = 0.56, 4 = 0.09, 5 = 0.09, 6 = 0.10, 7 = 0.07, 8 = 0.29, 9 = 0.15, 10 = 0.30, 11 = 0.11, 12 = 0.13, 13 = 0.15, 14 = 0.09, 15 = 0.09, 16 = 0.11 and 17 = 0.90

NOTES

- Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) 0-1-12 to 2-8-11, Corner(3R) 2-8-11 to 5-8-11, Exterior(2N) 5-8-11 to 14-3-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- **TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps= varies (12.9 psf Lum DOL=1.15 Plate DOL=1.15) see load cases; Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=0.67,1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
- Roof design snow load has been reduced to account for slope.
- Provide adequate drainage to prevent water ponding.
- All plates are 1.5x4 (||) MT20 unless otherwise indicated.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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) 17, 9, 16, 15, 14, 12 except (jt=lb) 13=127, 11=132, 10=324.
- Non Standard bearing condition. Review required.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-3=-46, 3-9=-59, 13-17=-20, 9-13=-20

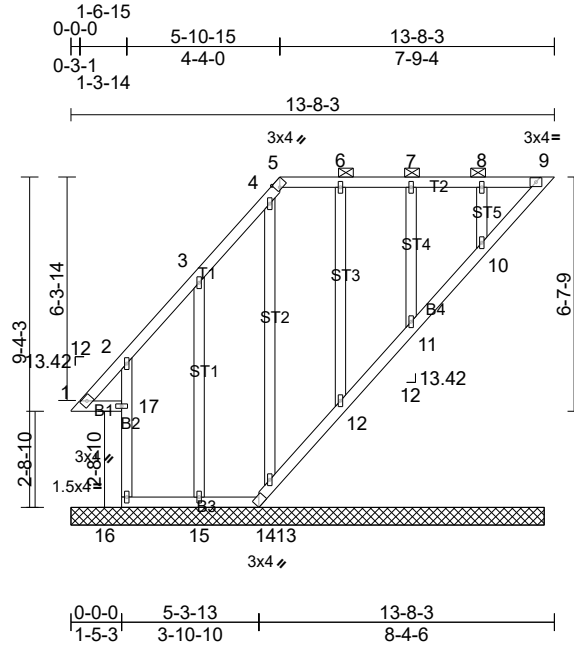
Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	LAY13	Lay-In Gable	1	1	Job Reference (optional)

Millard Lumber, Inc., Waverly NE 68462

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Scale = 1:57.2

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	n/a	-	n/a	999	MT20
Snow (Ps/Pg)	12.9/25.0	Lumber DOL	1.15	BC	0.09	Vert(TL)	n/a	-	n/a	999	197/144
TCDL	10.0	Rep Stress Incr	YES	WB	0.20	Horiz(TL)	-0.02	10	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS							
BCDL	10.0										
										Weight: 73 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (10-0-0 max.): 5-9.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS

All bearings 13-4-11.
(lb) - Max Horiz 1=176 (LC 14)
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 9, 10, 11, 12, 13, 15, 17
Max Grav All reactions 250 (lb) or less at joint (s) 1, 11, 12, 13, 14, 16, 17 except 10=308 (LC 2), 15=253 (LC 23)

FORCES

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

TOP CHORD 1-2=-322/292

JOINT STRESS INDEX

1 = 0.08, 2 = 0.38, 3 = 0.15, 4 = 0.13, 5 = 0.08, 6 = 0.10, 7 = 0.07, 8 = 0.13, 9 = 0.05, 10 = 0.16, 11 = 0.09, 12 = 0.13, 13 = 0.13, 14 = 0.01, 15 = 0.14, 16 = 0.31 and 17 = 0.44

NOTES

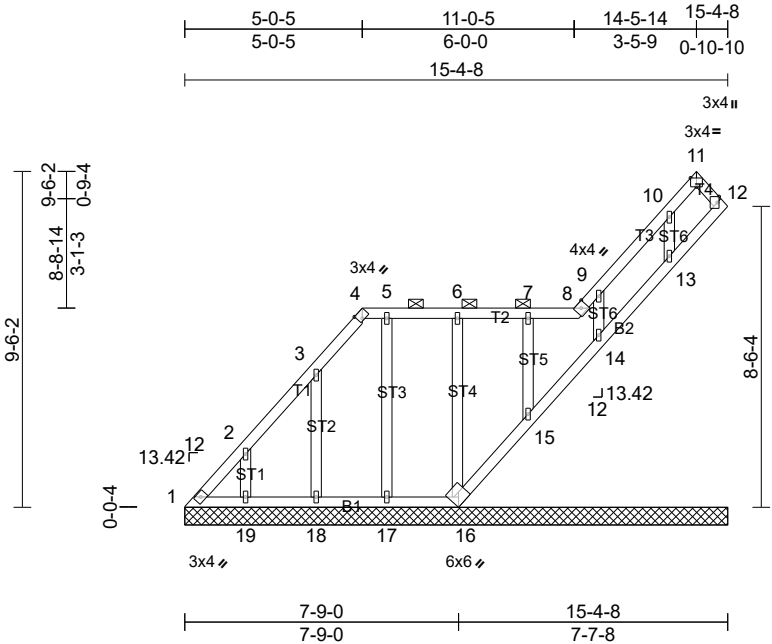
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) 0-3-15 to 3-3-15, Exterior(2N) 3-3-15 to 5-11-3, Corner(3R) 5-11-3 to 8-11-3, Exterior(2N) 8-11-3 to 13-4-15 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 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.
- **TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps= varies (12.9 psf Lum DOL=1.15 Plate DOL=1.15) see load cases; Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=0.67, 1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
- Roof design snow load has been reduced to account for slope.
- Provide adequate drainage to prevent water ponding.
- All plates are 1.5x4 (||) MT20 unless otherwise indicated.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 17 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 1, 9, 17, 15, 13, 12, 11, 10.
- Non Standard bearing condition. Review required.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-5=-46, 5-9=-59, 1-17=-20, 14-16=-20, 9-14=-20

Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	LAY14	Lay-In Gable	1	1	Job Reference (optional)



Scale = 1:56.5

Plate Offsets (X, Y): [4:0-1-6,Edge], [11:Edge,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20
Snow (Ps/Pg)	12.9/25.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999	197/144
TCDL	10.0	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	12	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS							
BCDL	10.0										
										Weight: 68 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
OTHERS 2x4 SPF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 12-13.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS All bearings 15-4-8.
(lb) - Max Horiz 1=236 (LC 14)
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 12, 14, 15, 16, 17, 18, 19
Max Grav All reactions 250 (lb) or less at joint (s) 1, 12, 13, 14, 15, 16, 17, 18, 19

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-324/271

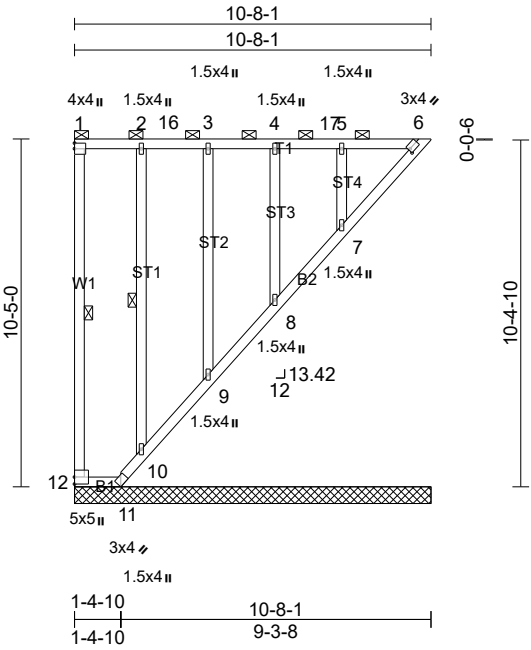
JOINT STRESS INDEX
1 = 0.15, 2 = 0.12, 3 = 0.14, 4 = 0.16, 5 = 0.10, 6 = 0.09, 7 = 0.10, 8 = 0.07, 9 = 0.13, 10 = 0.10, 11 = 0.26, 12 = 0.40, 13 = 0.10, 14 = 0.13, 15 = 0.12, 16 = 0.09, 17 = 0.10, 18 = 0.13 and 19 = 0.09

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) 0-0-4 to 3-0-4, Exterior(2N) 3-0-4 to 5-0-9, Corner(3R) 5-0-9 to 8-0-9, Exterior(2N) 8-0-9 to 14-6-2, Corner(3E) 14-6-2 to 15-2-6 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 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.
- **TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps= varies (12.9 psf Lum DOL=1.15 Plate DOL=1.15) see load cases; Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=0.67,1.00,0.67,0.67; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
- Roof design snow load has been reduced to account for slope.
- Provide adequate drainage to prevent water ponding.
- All plates are 1.5x4 (||) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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, 12, 19, 18, 17, 16, 15, 14.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 12, 15, 14, 13.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-4=-46, 4-8=-59, 8-11=-46, 11-12=-46, 1-16=-20, 12-16=-20

Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	LAY15	Lay-In Gable	1	1	Job Reference (optional)



Scale = 1:65.1

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	n/a	-	n/a	999	MT20
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.36	Vert(TL)	n/a	-	n/a	999	197/144
TCDL	10.0	Rep Stress Incr	YES	WB	0.16	Horiz(TL)	-0.21	6	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS							
BCDL	10.0										
										Weight: 67 lb	FT = 20%

LUMBER	
TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2
OTHERS	2x4 SPF No.2
BRACING	
TOP CHORD	2-0-0 oc purlins (10-0-0 max.): 1-6, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 1-12, 2-10
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.	

REACTIONS	
All bearings 10-8-1.	
(lb) - Max Horiz	12=255 (LC 12)
Max Uplift	All uplift 100 (lb) or less at joint(s) 6, 9, 11, 12 except 7=317 (LC 14), 8=213 (LC 12), 10=101 (LC 10)
Max Grav	All reactions 250 (lb) or less at joint (s) 6, 8, 10, 11, 12 except 7=641 (LC 23), 9=259 (LC 23)
FORCES	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
BOT CHORD	9-10=-312/258, 8-9=-270/222, 7-8=-414/341
WEBS	5-7=-401/528

JOINT STRESS INDEX	
1 = 0.89, 2 = 0.17, 3 = 0.18, 4 = 0.16, 5 = 0.44, 6 = 0.13, 7 = 0.36, 8 = 0.13, 9 = 0.15, 10 = 0.13, 11 = 0.31 and 12 = 0.94	

NOTES	
1) Unbalanced roof live loads have been considered for this design.	
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60	

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps=19.2 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
- 5) Roof design snow load has been reduced to account for slope.
- 6) Provide adequate drainage to prevent water ponding.
- 7) Gable requires continuous bottom chord bearing.
- 8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 9) Gable studs spaced at 2-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) * 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.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 12, 6, 11, 9 except (jt=lb) 10=101, 8=213, 7=317.
- 13) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 6, 10, 9, 8, 7.
- 14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

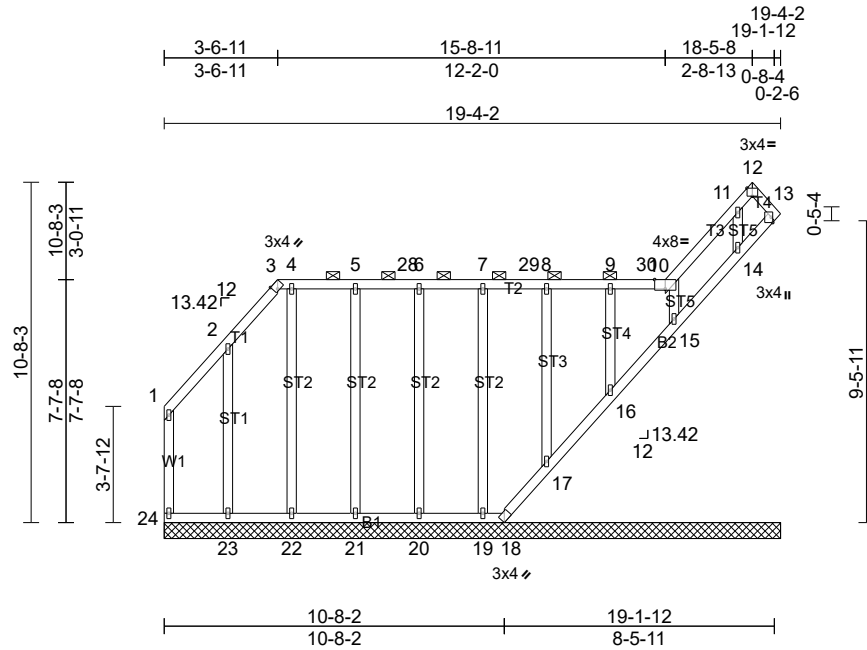
Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	LAY16	Lay-In Gable	1	1	Job Reference (optional)

Millard Lumber, Inc., Waverly NE 68462

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Scale = 1:62.1

Plate Offsets (X, Y): [3:0-1-6,Edge], [10:0-4-0,Edge], [12:Edge,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20
Snow (Ps/Pg)	12.9/25.0	Lumber DOL	1.15	BC	0.16	Vert(TL)	n/a	-	n/a	999	197/144
TCDL	10.0	Rep Stress Incr	YES	WB	0.15	Horiz(TL)	-0.02	13	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS							
BCDL	10.0										
Weight: 109 lb FT = 20%											

LUMBER

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2
OTHERS	2x4 SPF No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-10.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS

(lb) - Max Horiz	24=253 (LC 14)
Max Uplift	All uplift 100 (lb) or less at joint(s) 14, 16, 17, 19, 20, 21, 22, 23, 24 except 13=-290 (LC 14), 15=-243 (LC 14), 18=-152 (LC 12), 25=-290 (LC 14)
Max Grav	All reactions 250 (lb) or less at joint (s) 13, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25 except 14=275 (LC 25), 15=297 (LC 24)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-216/254, 10-11=-234/294
BOT CHORD	23-24=-290/235, 22-23=-290/235, 21-22=-290/235, 20-21=-290/235, 19-20=-290/235, 18-19=-290/235, 17-18=-448/374, 16-17=-443/368, 15-16=-446/369, 14-15=-339/267, 13-14=-438/336
WEBS	10-15=-287/302

JOINT STRESS INDEX

1 = 0.51, 2 = 0.51, 3 = 0.38, 4 = 0.51, 5 = 0.51, 6 = 0.51, 7 = 0.51, 8 = 0.51, 9 = 0.51, 10 = 0.43, 11 = 0.51, 12 = 0.70, 13 = 0.52, 14 = 0.51, 15 = 0.51, 16 = 0.51, 17 = 0.51, 18 = 0.34, 19 = 0.51, 20 = 0.51, 21 = 0.51, 22 = 0.51, 23 = 0.51 and 24 = 0.84

NOTES

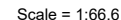
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) 0-1-12 to 3-1-12, Exterior(2N) 3-1-12 to 3-6-11, Corner(3R) 3-6-11 to 6-6-11, Exterior(2N) 6-6-11 to 18-5-8, Corner(3E) 18-5-8 to 18-11-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- **TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps= varies (12.9 psf Lum DOL=1.15 Plate DOL=1.15) see load cases; Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=0.67, 1.00, 0.67, 0.67; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
- Roof design snow load has been reduced to account for slope.
- Provide adequate drainage to prevent water ponding.
- All plates are 1.5x4 (||) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 13, 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 24, 23, 22, 21, 20, 19, 17, 16, 14 except (jt=lb) 13=289, 18=151, 15=242, 13=289.

- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 13, 17, 16, 15, 14, 25.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-46, 3-10=-59, 10-12=-46, 12-26=-46, 13-26=-23, 18-24=-20, 18-27=-20, 25-27=-10
Drag: 13-26=23, 25-27=-10

Millard Lumber, Inc., Waverly NE 68462 Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Mon Jun 30 14:50:07 Page: ID: fcpaveB86tHWMdM2dKl26Qz5kSM-J0opDfOpD0bURoFioQsQH9CpY1aZuXkZ FhMhdz13f



LUMBER	2) Wind: ASCE 7-16; Vult=115mph (3-second gust)	1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
TOP CHORD 2x4 SPF No.2	Vasd=91mph; TCCL=4.8psf; BCCL=6.0psf; h=15ft;	Uniform Loads (lb/ft)
BOT CHORD 2x4 SPF No.2	B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed;	Vert: 1-6=-46, 6-13=-59, 1-17=-20, 13-17=-20
OTHERS 2x4 SPF No.2	MWFRS (directional) and C-C Exterior(2E) 0-0-4 to	

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-6=-46, 6-13=-59, 1-17=-20, 13-17=-20

LOAD CASE(S) Standard

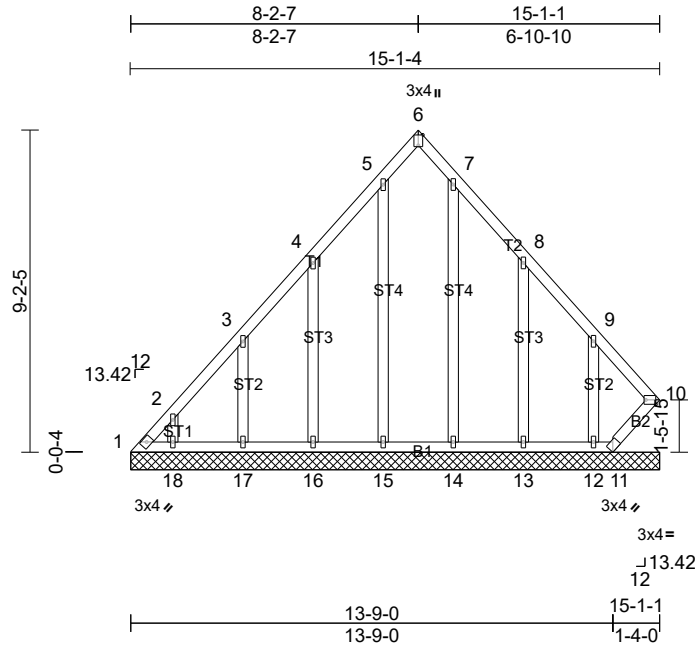
Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	LAY18	Lay-In Gable	1	1	Job Reference (optional)

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Scale = 1:55.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Ps/Pg)	12.9/25.0	Lumber DOL	1.15	BC	0.09	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.16	Horiz(TL)	0.01	10	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 80 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 10-11.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS

All bearings 15-1-1.
(lb) - Max Horiz 1=-216 (LC 12)
Max Uplift All uplift 100 (lb) or less at joint(s) 12, 14, 15, 16, 17, 18 except 1=-114 (LC 12), 10=-150 (LC 13), 11=-131 (LC 14), 13=-102 (LC 14)
Max Grav All reactions 250 (lb) or less at joint (s) 1, 11, 12, 13, 14, 15, 16, 17, 18 except 10=273 (LC 14)

FORCES

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

TOP CHORD 1-2=-343/280, 2-3=-271/219
BOT CHORD 10-11=-245/298

JOINT STRESS INDEX

1 = 0.12, 2 = 0.11, 3 = 0.14, 4 = 0.14, 5 = 0.11, 6 = 0.22, 7 = 0.10, 8 = 0.15, 9 = 0.13, 10 = 0.22, 11 = 0.17, 12 = 0.09, 13 = 0.15, 14 = 0.08, 15 = 0.08, 16 = 0.14, 17 = 0.13 and 18 = 0.08

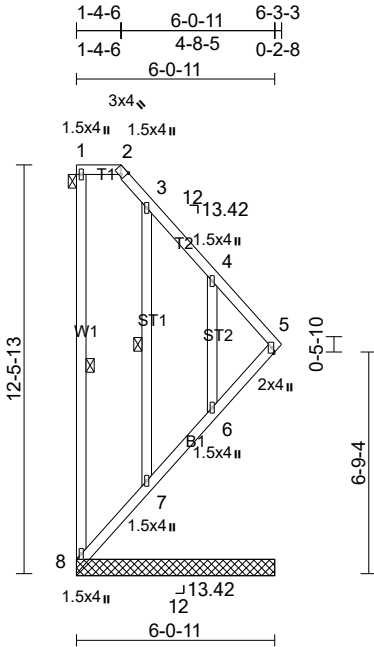
NOTES

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) 0-0-4 to 3-2-10, Exterior(2N) 3-2-10 to 8-2-10, Corner(3R) 8-2-10 to 11-2-10, Exterior(2N) 11-2-10 to 15-1-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps=12.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=0.67; Ct=1.10
- 5) Roof design snow load has been reduced to account for slope.
- 6) All plates are 1.5x4 (||) MT20 unless otherwise indicated.
- 7) Gable requires continuous bottom chord bearing.
- 8) Gable studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * 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.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 18, 17, 16, 15, 14, 12 except (jt=lb) 1=113, 10=150, 11=131, 13=102.
- 12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 10.
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	LAY19	Lay-In Gable	1	1	Job Reference (optional)



Scale = 1:54.9

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20
Snow (Ps/Pg)	12.9/25.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999	197/144
TCDL	10.0	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	5	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP							
BCDL	10.0										
										Weight: 48 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2

OTHERS 2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 6'-0" oc purlins, except end verticals, and 2'-0" oc purlins: 1-2.

BOT CHORD Rigid ceiling directly applied or 6'-0" oc bracing.

WEBS 1 Row at midpt 1-8, 3-7

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

- 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) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 8, 5, 7, 6, 9.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-2=-59, 2-5=-46, 8-9=-20

REACTIONS All bearings 6'-0"-11'.
(lb) - Max Grav All reactions 250 (lb) or less at joint (s) 5, 6, 8, 9 except 7=258 (LC 2)

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

JOINT STRESS INDEX

1 = 0.03, 2 = 0.04, 3 = 0.16, 4 = 0.10, 5 = 0.13, 6 = 0.10, 7 = 0.16 and 8 = 0.05

- NOTES
- 1) Unbalanced roof live loads have been considered for this design.
- 2) **TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps= varies (12.9 psf Lum DOL=1.15 Plate DOL=1.15) see load cases; Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00,0.67; Ct=1.10, Lu=50'-0"-0; Min. flat roof snow load governs.
- 3) Roof design snow load has been reduced to account for slope.
- 4) Provide adequate drainage to prevent water ponding.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2'-0"-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

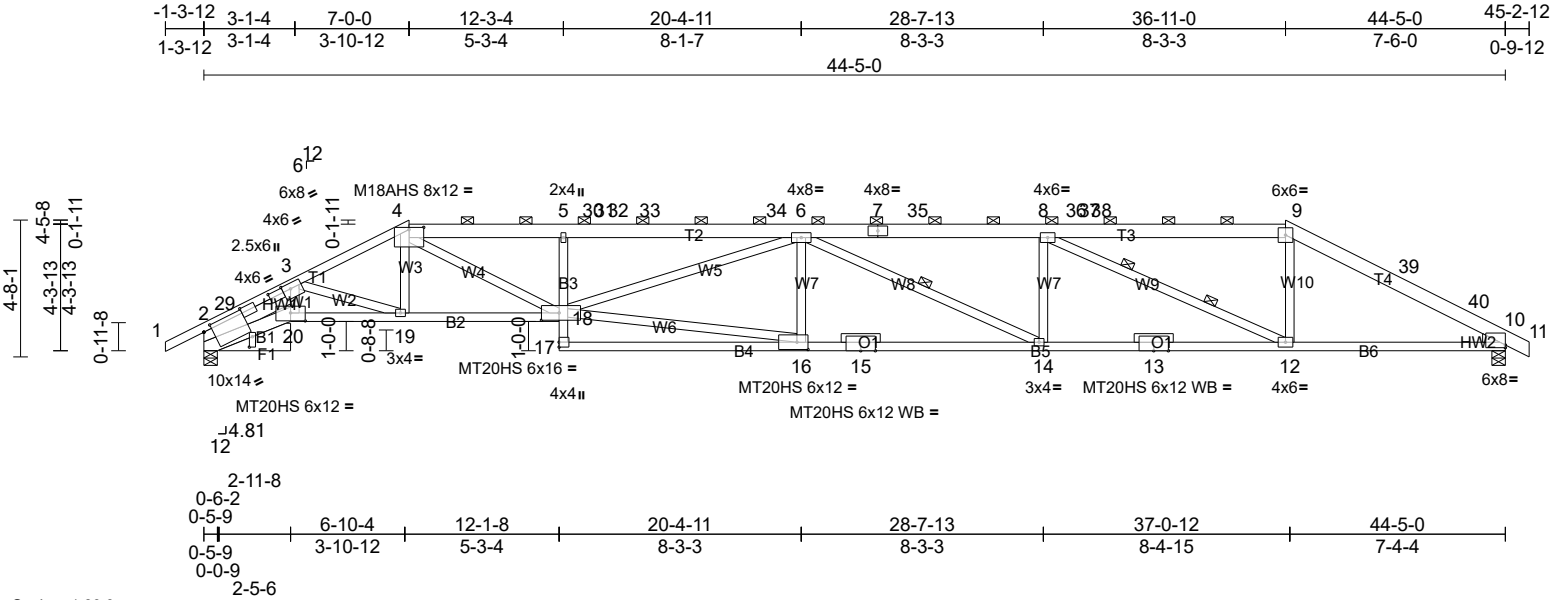
Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	T01	Hip	1	1	Job Reference (optional)

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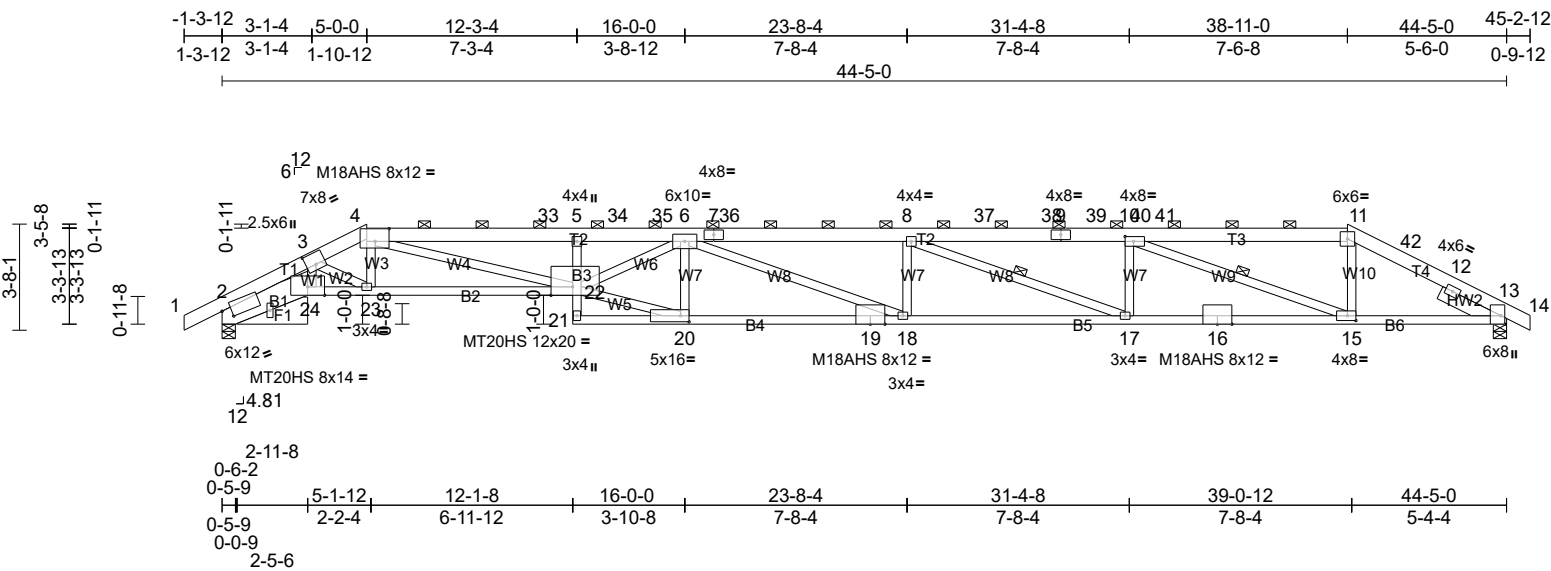
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Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	T01A	Hip	1	1	Job Reference (optional)

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Scale = 1:80.2												
Plate Offsets (X, Y): [2:0-3-12,0-3-10], [3:0-4-0,0-4-12], [4:0-5-12,0-5-4], [10:0-3-8,0-2-0], [13:0-3-8,Edge], [15:0-3-8,0-2-0], [20:0-3-8,0-2-8], [22:0-9-0,Edge]												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	-0.99	18-20	>534	240	M18AHS	142/136
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-1.67	18-20	>318	180	MT20	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.41	13	n/a	n/a	MT20HS	139/108
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 259 lb	FT = 20%

LUMBER	
TOP CHORD	2x6 SP 2400F 2.0E *Except* T1,T3:2x6 SPF No.2
BOT CHORD	2x4 SP 2400F 2.0E *Except* B1:2x10 HF No.2, F1:2x12 HF No.2
WEBS	2x4 SPF No.2 *Except* W4,W5,W9:2x4 SP 2400F 2.0E
SLIDER	Right 2x6 SPF No.2 -- 2-2-15
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 2-5-1 oc purlins, except
BOT CHORD	2-0-0 oc purlins (2-2-8 max.): 4-11. Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 10-15, 8-17
	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS	(lb/size)	2=1812/0-5-8, (min. 0-3-7), 13=1795/0-5-8, (min. 0-1-14)
	Max Horiz	2=67 (LC 15)
	Max Uplift	2=-178 (LC 16), 13=-169 (LC 16)
	Max Grav	2=2315 (LC 2), 13=2292 (LC 2)
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD		2-3=-6081/523, 3-4=-5572/469, 4-33=-10296/863, 5-33=-10297/863, 5-34=-10012/837, 34-35=-10012/837, 6-35=-10012/837, 6-7=-8391/708, 7-36=-8391/708, 8-36=-8391/708, 8-37=-7218/632, 37-38=-7218/632, 9-38=-7218/632, 9-39=-7218/632, 10-39=-7218/632, 10-40=-3410/347, 40-41=-3410/347, 11-41=-3407/347, 11-42=-3952/364, 12-42=-3976/349, 12-13=-1441/159
BOT CHORD		2-24=-390/5363, 23-24=-370/5150, 22-23=-346/5217, 5-22=-432/117, 20-21=-72/609, 19-20=-567/7912, 18-19=-567/7912, 17-18=-599/8391, 16-17=-519/7218, 15-16=-519/7218, 13-15=-235/3481

- WEBS** 3-24=-89/953, 4-22=-429/5265, 4-23=0/369, 11-15=-29/1520, 6-22=-189/2368, 6-20=-1867/215, 20-22=-512/7561, 10-15=-4080/306, 6-18=-59/661, 8-17=-1504/118, 10-17=0/704
- JOINT STRESS INDEX**
2 = 0.85, 2 = 0.19, 3 = 0.38, 4 = 0.95, 5 = 0.74, 6 = 0.73, 7 = 0.51, 8 = 0.58, 9 = 0.65, 10 = 0.79, 11 = 0.68, 12 = 0.00, 13 = 0.92, 13 = 0.80, 15 = 0.77, 16 = 0.88, 17 = 0.72, 18 = 0.56, 19 = 0.90, 20 = 0.89, 21 = 0.73, 22 = 1.00, 23 = 0.54 and 24 = 0.65
- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=44ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-3-12 to 3-1-4, Interior (1) 3-1-4 to 5-0-0, Exterior(2R) 5-0-0 to 11-3-6, Interior (1) 11-3-6 to 38-11-0, Exterior(2E) 38-11-0 to 45-2-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) **TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps= varies (19.2 psf Lum DOL=1.15 Plate DOL=1.15) see load cases; Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - 4) Roof design snow load has been reduced to account for slope.
 - 5) Unbalanced snow loads have been considered for this design.
 - 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.
 - 7) Provide adequate drainage to prevent water ponding.
 - 8) All plates are MT20 plates unless otherwise indicated.
 - 9) The Fabrication Tolerance at joint 4 = 8%, joint 22 = 8%, joint 19 = 8%, joint 16 = 12%
 - 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 11) * 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.
 - 12) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 169 lb uplift at joint 13 and 178 lb uplift at joint 2.
 - 14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- LOAD CASE(S)** Standard
- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-4=-59, 4-11=-59, 11-14=-58, 24-30=-20, 22-24=-20, 21-26=-20

Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	T02	Roof Special	1	1	Job Reference (optional)

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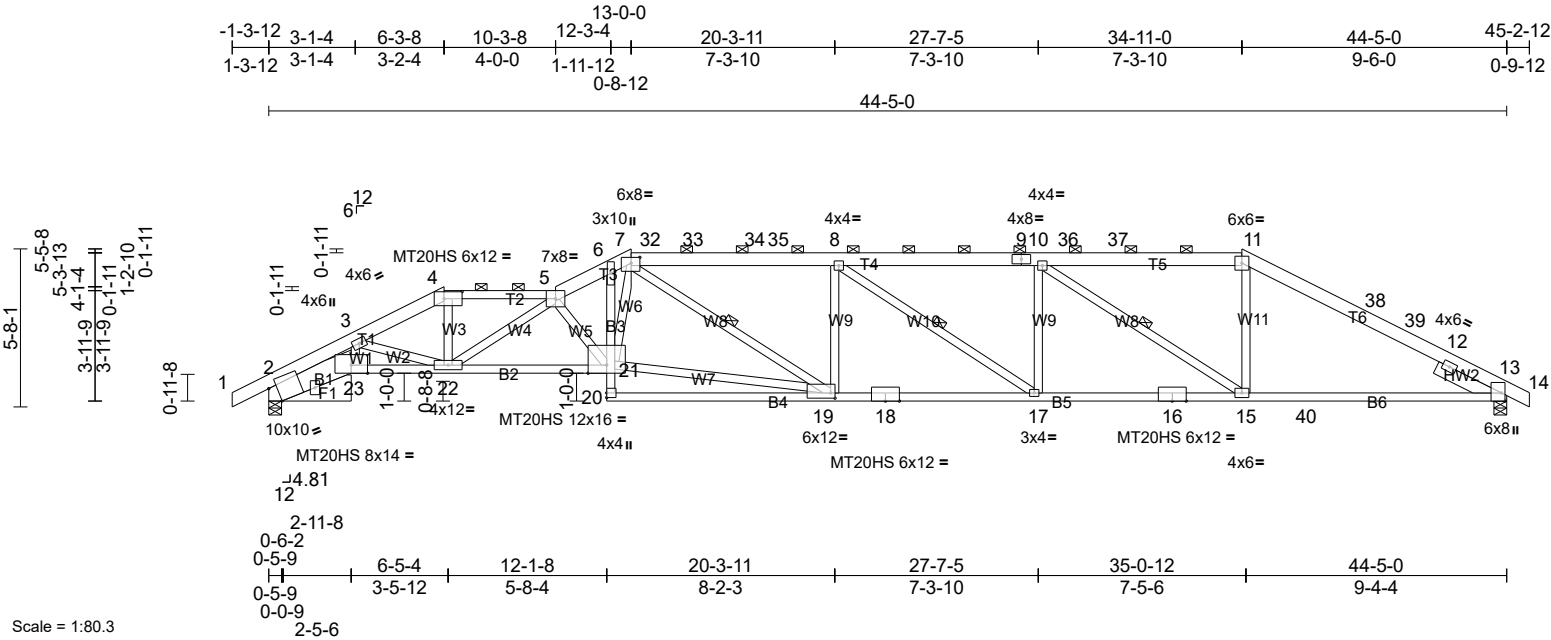


Plate Offsets (X, Y): [2:0-3-6,Edge], [4:0-7-12,0-3-0], [7:0-3-12,0-2-8], [13:0-3-8,Edge], [19:0-1-14,0-2-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.51	17-19	>999	240	MT20HS	148/108
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.86	19-20	>617	180	MT20	197/144
TCDL	10.0	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.34	13	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS								
BCDL	10.0											
Weight: 259 lb FT = 20%												

LUMBER	
TOP CHORD	2x6 SPF No.2 *Except* T2:2x4 SPF No.2, T6:2x6 SP 2400F 2.0E
BOT CHORD	2x4 SP 2400F 2.0E *Except* B1:2x10 HF No.2, B3:2x4 SPF No.2, F1:2x12 HF No.2
WEBS	2x4 SPF No.2 *Except* W7:2x4 SP 2400F 2.0E
SLIDER	Right 2x6 SPF No.2 -- 2-6-0
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 2-5-10 oc purlins, except 2-0-0 oc purlins (2-2-0 max.): 4-5, 7-11.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 7-19, 8-17, 10-15
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.	

REACTIONS	(lb/size)	2=1812/0-5-8, (min. 0-3-7), 13=1795/0-5-8, (min. 0-1-15)
	Max Horiz	2=110 (LC 15)
	Max Uplift	2=-178 (LC 16), 13=-169 (LC 16)
	Max Grav	2=2374 (LC 28), 13=2377 (LC 29)

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-6423/686, 3-4=-5135/533, 4-5=-4736/516, 5-6=-6187/665, 6-7=-5751/627, 7-32=-5238/573, 32-33=-5239/572, 33-34=-5239/572, 34-35=-5240/572, 8-35=-5241/572, 8-9=-4999/541, 9-10=-4999/541, 10-36=-3388/424, 36-37=-3387/424, 11-37=-3386/424, 11-38=-3822/413, 38-39=-3840/394, 12-39=-3916/388, 12-13=-1757/82
BOT CHORD	2-23=-572/5765, 22-23=-552/5523, 21-22=-598/6748, 6-21=-105/943, 19-20=-14/377, 18-19=-416/5314, 17-18=-416/5314, 16-17=-371/5005, 15-16=-371/5005, 15-40=-256/3379, 13-40=-256/3379

WEBS	3-23=-84/1136, 4-22=-131/1859, 19-21=-414/4859, 7-21=-138/1686, 7-19=-189/374, 8-19=-580/140, 8-17=-415/57, 10-17=0/478, 10-15=-2101/156, 11-15=0/1406, 3-22=-881/170, 5-22=-2461/283, 5-21=-2081/278
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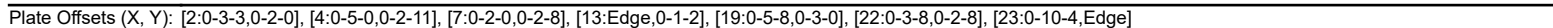
JOINT STRESS INDEX	2 = 1.00, 2 = 0.12, 3 = 0.66, 4 = 0.80, 5 = 0.90, 6 = 0.53, 7 = 0.90, 8 = 0.38, 9 = 0.53, 10 = 0.72, 11 = 0.62, 12 = 0.00, 13 = 0.89, 13 = 0.69, 15 = 0.72, 16 = 0.70, 17 = 0.54, 18 = 0.74, 19 = 0.88, 20 = 0.75, 21 = 0.81, 22 = 0.78 and 23 = 0.70
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- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=44ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-3-12 to 3-1-4, Interior (1) 3-1-4 to 6-3-8, Exterior(2E) 6-3-8 to 10-3-8, Interior (1) 10-3-8 to 13-0-0, Exterior(2R) 13-0-0 to 17-5-5, Interior (1) 17-5-5 to 34-11-0, Exterior(2R) 34-11-0 to 39-4-4, Interior (1) 39-4-4 to 45-2-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - **TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps= varies (19.2 psf Lum DOL=1.15 Plate DOL=1.15) see load cases; Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - Roof design snow load has been reduced to account for slope.
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 178 lb uplift at joint 2 and 169 lb uplift at joint 13.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S)	Standard
1) Dead + Snow (balanced):	Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)	
	Vert: 1-4=-59, 4-5=-59, 5-7=-59, 7-11=-59, 11-14=-59, 23-25=-20, 21-23=-20, 20-28=-20

Millard Lumber, Inc., Waverly NE 68462 Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Mon Jun 30 14:50:09 Page: ID:uiBTwxu7f67mx8DJGKRtKz22o0-jbUyrrhWxz2lG HLPZ5vqn81FPP5hw0gDv0lyl3IC



LUMBER		WEBS	3-23=-79/1135, 5-21=-3967/411, 7-21=-324/2761, 5-22=-1473/218, 4-23=-36/453, 4-22=-372/4020, 11-15=0/564, 7-19=-195/351, 19-21=-310/3941, 8-19=-621/151, 11-17=-138/1392, 10-17=-735/169, 10-19=-301/154, 12-15=-490/145	9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
TOP CHORD	2x6 SPF No.2 *Except* T2:2x4 SP 2400F 2.0E			10) * 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.
BOT CHORD	2x4 SP 2400F 2.0E *Except* B1:2x10 HF No.2, B3:2x4 SPF No.2, F1:2x12 HF No.2			
WEBS	2x4 SPF No.2			
OTHERS	2x4 SPF 1650F 1.5E			
WEDGE	Right: 2x4 SPF No.2			11) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building
		JOINT STRESS INDEX		

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

BOT CHORD 2-23=-572/5976, 22-23=-526/5467,
21-22=-873/9283, 19-20=-23/338,
18-19=-327/4290, 18-40=-327/4290,
17-40=-327/4290, 17-41=-227/3332,
16-41=-227/3332, 15-16=-227/3332,
13-15=-353/3591

WEBS 3-23=-79/1135, 5-21=-3967/411,
7-21=-324/2761, 5-22=-1473/218,
4-23=-36/453, 4-22=-372/4020, 11-15=0/564,
7-19=-195/351, 19-21=-310/3941,
8-19=-621/151, 11-17=-138/1392,
10-17=-735/169, 10-19=-301/154,
12-15=-490/145

JOINT STRESS INDEX
 2 = 0.63, 2 = 0.12, 3 = 0.32, 4 = 0.86, 5 = 0.92, 6 = 0.67, 7 = 0.97, 8 = 0.38, 9 = 0.42, 10 = 0.38, 11 = 0.62, 12 = 0.38, 13 = 0.87, 15 = 0.54, 16 = 0.85, 17 = 0.64, 18 = 0.60, 19 = 0.38, 20 = 0.74, 21 = 0.82, 22 = 0.71, 23 = 0.71 and 23 = 0.71

NOTES

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCDF=4.8psf; BCDF=6.0psf; h=15ft;
B=45ft; L=44ft; eave=5ft; Cat. II; Exp C; Enclosed;
MWFRS (directional) and C-C Exterior(2E) -1-3-12 to
3-1-4, Interior (1) 3-1-4 to 4-3-8, Exterior(2E) 4-3-8 to
8-3-8, Interior (1) 8-3-8 to 15-0-0, Exterior(2R) 15-0-0 to
19-5-5, Interior (1) 19-5-5 to 32-11-0, Exterior(2R)
32-11-0 to 37-4-4, Interior (1) 37-4-4 to 45-2-12 zone;
cantilever left and right exposed ; end vertical left and
right exposed; C-C for members and forces & MWFRS
for reactions shown; Lumber DOL=1.60 plate grip
DOL=1.60

- 3) **TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps= varies (19.2 psf Lum DOL=1.15 Plate DOL=1.15) see load cases; Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
- 4) Roof design snow load has been reduced to account for slope.
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.
- 7) Provide adequate drainage to prevent water ponding.
- 8) All plates are MT20 plates unless otherwise indicated.

- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * 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.
- 11) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 179 lb uplift at joint 2 and 162 lb uplift at joint 13.
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-4=-59, 4-5=-59, 5-7=-59, 7-11=-59,
11-14=-59, 23-25=-20, 21-23=-20, 20-28=-20

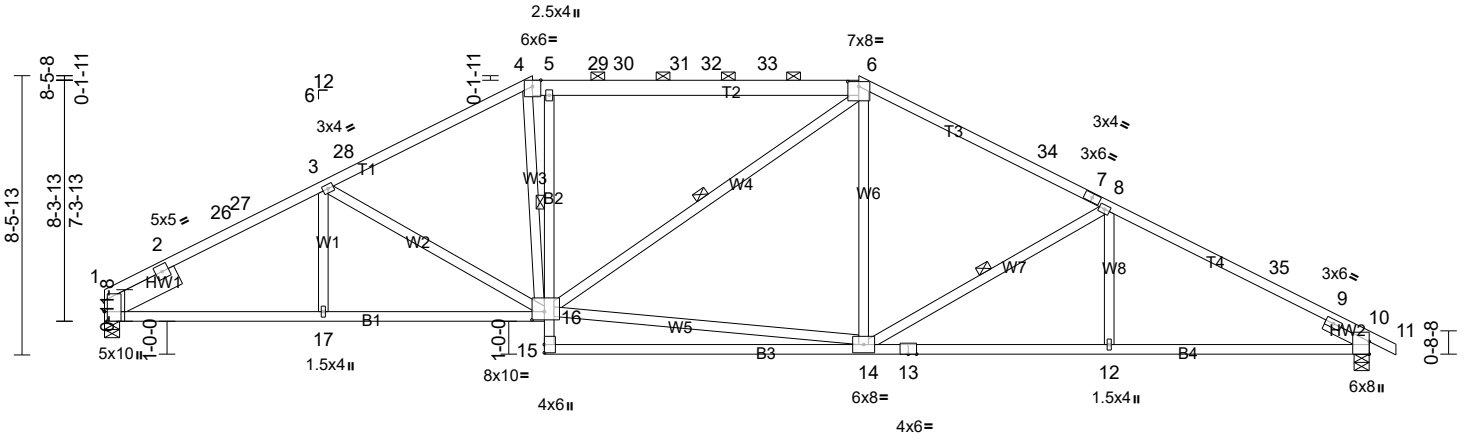
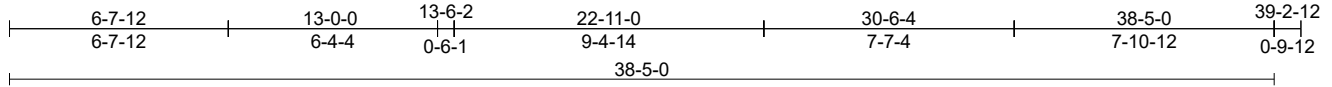
Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	T04	Hip	1	1	Job Reference (optional)

Millard Lumber, Inc., Waverly NE 68462

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Scale = 1:69.4

Plate Offsets (X, Y): [1:0-3-8,Edge], [6:0-4-0,0-1-12], [16:0-4-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.27	14-15	>999	240	MT20	197/144
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.60	14-15	>773	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.14	10	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 209 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP 2400F 2.0E *Except* T2:2x6 SP 2400F 2.0E
BOT CHORD 2x4 SP 2400F 2.0E *Except* B2,B3:2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x8 SPF No.2 -- 2-6-0, Right 2x4 SPF No.2 -- 1-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-6-3 oc purlins, except 2-0-0 oc purlins (5-10-1 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 12-14.

1 Row at midpt 5-16
WEBS 1 Row at midpt 6-16, 8-14

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 1=1507/0-5-8, (min. 0-1-9), 10=1556/0-5-8, (min. 0-1-10)
Max Horiz 1=-153 (LC 14)
Max Uplift 1=-117 (LC 16), 10=-144 (LC 16)
Max Grav 1=1920 (LC 2), 10=1987 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-762/10, 2-26=-3092/309, 26-27=-3022/310, 3-27=-3001/322, 3-28=-2697/315, 4-28=-2626/339, 4-5=-2512/376, 5-29=-2462/355, 29-30=-2460/356, 30-31=-2458/356, 31-32=-2457/356, 32-33=-2457/356, 6-33=-2455/357, 6-34=-2524/327, 7-34=-2641/299, 7-8=-2662/296, 8-35=-3078/338, 9-35=-3294/310, 9-10=-912/0
BOT CHORD 1-17=-165/2649, 16-17=-165/2649, 5-16=-1344/264, 13-14=-220/2831, 12-13=-220/2831, 10-12=-220/2831

WEBS 3-16=-518/90, 4-16=-219/1550, 14-16=-125/2136, 6-16=-76/498, 6-14=0/445, 8-14=-827/146

JOINT STRESS INDEX
1 = 0.99, 1 = 0.91, 2 = 0.00, 3 = 0.66, 4 = 0.87, 5 = 0.65, 6 = 0.96, 7 = 0.74, 8 = 0.66, 9 = 0.00, 10 = 0.89, 10 = 0.69, 12 = 0.51, 13 = 0.81, 14 = 0.80, 15 = 0.87, 16 = 0.77 and 17 = 0.51

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=38ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-10-2, Interior (1) 3-10-2 to 13-0-0, Exterior(2R) 13-0-0 to 18-5-4, Interior (1) 18-5-4 to 22-11-0, Exterior(2R) 22-11-0 to 28-4-3, Interior (1) 28-4-3 to 39-2-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) **TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps= varies (19.2 psf Lum DOL=1.15 Plate DOL=1.15) see load cases; Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
4) Roof design snow load has been reduced to account for slope.
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.
7) Provide adequate drainage to prevent water ponding.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 117 lb uplift at joint 1 and 144 lb uplift at joint 10.

11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-4=-59, 4-6=-59, 6-11=-59, 16-18=-20, 15-22=-20

Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	T05	Hip	1	1	Job Reference (optional)

Millard Lumber, Inc., Waverly NE 68462

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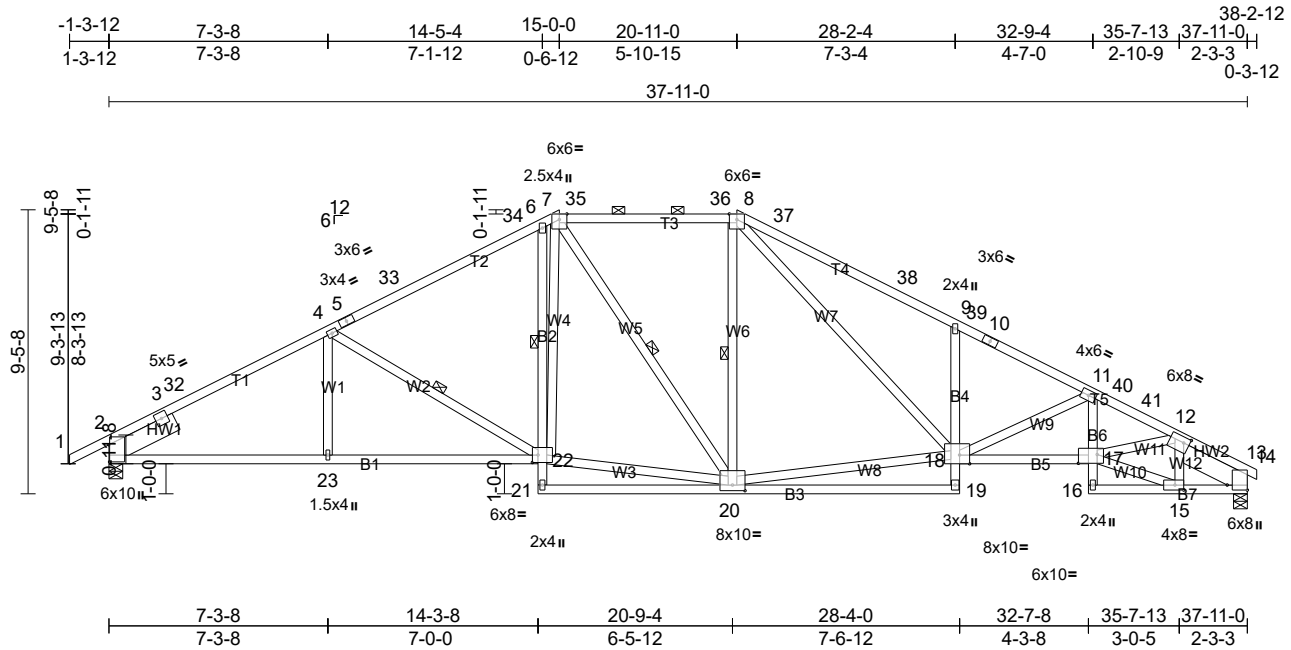


Plate Offsets (X, Y): [2:0-6-13,0-0-4], [12:0-2-5,0-2-4], [13:Edge,0-8-0], [15:0-3-8,0-2-0], [17:0-7-8,0-3-8], [18:0-4-0,Edge], [20:0-5-0,0-2-4], [22:0-2-4,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.96	Vert(LL)	-0.26	22-23	>999	240	MT20	197/144
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.47	22-23	>959	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.15	13	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 222 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SPF No.2 *Except* T4,T1:2x4 SP 2400F 2.0E
BOT CHORD 2x4 SPF No.2 *Except* B1,B5:2x4 SP 2400F 2.0E
WEBS 2x4 SPF No.2
SLIDER Left 2x8 SPF No.2 -- 2-6-0, Right 2x8 SPF No.2 -- 2-6-4

BRACING
TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (3-0-12 max.): 7-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
1 Row at midpt 6-22
WEBS 1 Row at midpt 4-22, 7-20, 8-20

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 2=1566/0-5-8, (min. 0-1-11), 13=1505/0-5-8, (min. 0-3-0)
Max Horiz 2=178 (LC 15)
Max Uplift 2=-159 (LC 16), 13=-125 (LC 16)
Max Grav 2=2018 (LC 39), 13=1919 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-740/0, 3-32=-3183/294, 4-32=-3168/317, 4-5=-2613/305, 5-33=-2586/315, 33-34=-2467/332, 6-34=-2322/335, 6-7=-2500/406, 7-35=-1984/331, 35-36=-1984/331, 8-36=-1984/331, 8-37=-3473/500, 37-38=-3563/486, 9-38=-3740/472, 9-39=-3457/376, 10-39=-3477/375, 10-11=-3657/371, 11-40=-4397/412, 40-41=-4415/406, 12-41=-4444/405, 12-13=-620/95
BOT CHORD 2-23=-180/2725, 22-23=-180/2725, 6-22=-561/177, 9-18=-667/200, 17-18=-301/4016, 11-17=-4/519, 13-15=-194/2296

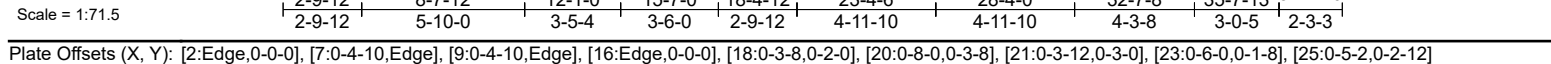
WEBS 4-22=-604/102, 7-22=-173/1339, 7-20=-449/62, 8-20=-353/120, 18-20=-87/1814, 8-18=-237/1827, 11-18=-891/98, 12-15=-864/108, 12-17=-109/1665, 15-17=-191/2300, 20-22=-60/2057
JOINT STRESS INDEX
2 = 0.88, 2 = 0.97, 3 = 0.00, 4 = 0.66, 5 = 0.41, 6 = 0.92, 7 = 0.75, 8 = 0.61, 9 = 0.68, 10 = 0.62, 11 = 0.48, 12 = 0.81, 13 = 0.72, 15 = 0.70, 16 = 0.78, 17 = 1.00, 18 = 0.76, 19 = 0.85, 20 = 0.40, 21 = 0.80, 22 = 0.79 and 23 = 0.51
NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=38ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-3-12 to 2-5-12, Interior (1) 2-5-12 to 15-0-0, Exterior(2R) 15-0-0 to 20-4-6, Interior (1) 20-4-6 to 20-11-0, Exterior(2R) 20-11-0 to 26-3-5, Interior (1) 26-3-5 to 38-2-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- **TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps= varies (19.2 psf Lum DOL=1.15 Plate DOL=1.15) see load cases; Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 159 lb uplift at joint 2 and 125 lb uplift at joint 13.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-7=-59, 7-8=-59, 8-14=-59, 22-24=-20, 19-21=-20, 17-18=-20, 16-28=-20

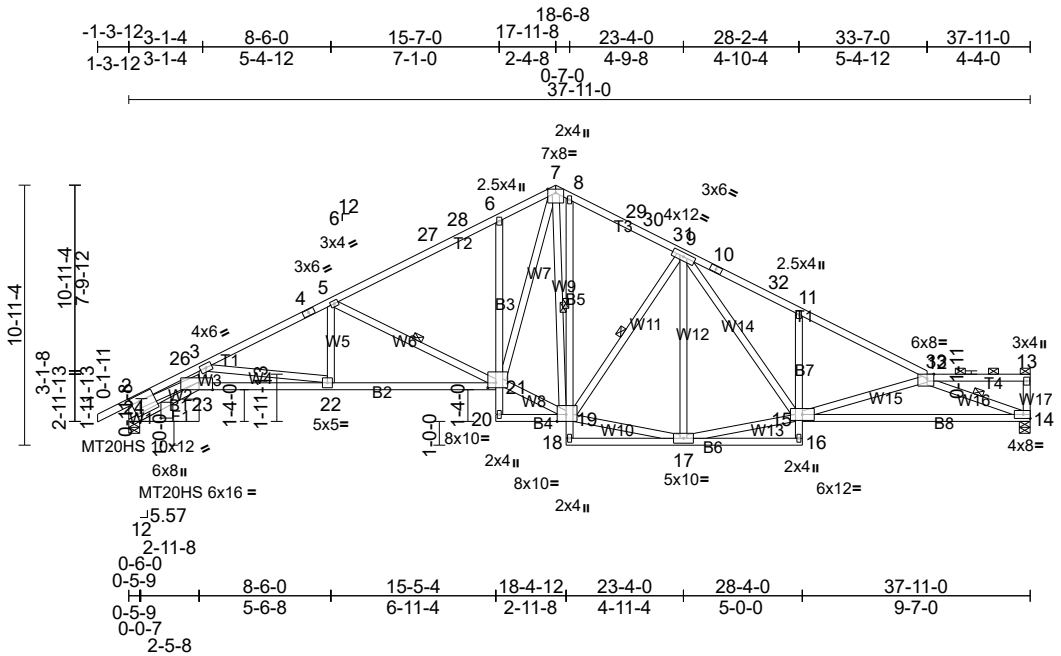
Millard Lumber, Inc., Waverly NE 68462 Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Mon Jun 30 14:50:11 Page: 1
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LUMBER		BOT CHORD	2-30=-162/2941, 29-30=-162/2941, 28-29=-162/2941, 27-28=-162/2941, 26-27=-162/2941, 25-26=-162/2941, 8-25=-59/520, 12-21=-444/123, 20-21=-285/4172, 13-20=0/460, 16-18=-175/2232	6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.
TOP CHORD	2x6 SP 2400F 2.0E *Except* T2:2x6 SPF No.2, T4,T5:2x4 SPF No.2			7) Provide adequate drainage to prevent water ponding.
BOT CHORD	2x4 SPF No.2 *Except* B6:2x4 SP 2400F 2.0E			8) All plates are MT20 plates unless otherwise indicated.
WEBS	2x4 SPF No.2	WEBS	5-29=0/314, 5-31=-904/153, 31-32=-910/147, 25-32=-916/143, 7-25=0/391, 13-21=-953/117, 21-23=-83/2252, 14-18=-930/106, 14-20=-118/1927, 18-20=-163/2160, 10-23=-860/94, 10-21=-163/1634, 23-25=-47/2449, 9-25=-78/627, 10-25=-473/128	9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
SLIDER	Left 2x8 SPF No.2 -- 2-5-0, Right 2x8 SPF No.2 -- 2-0-0			10) * 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.
BRACING				11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 159 lb uplift at joint 2 and 125 lb uplift at joint 16.
TOP CHORD	Structural wood sheathing directly applied or 2-2-2 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 7-9.	JOINT STRESS INDEX	2 = 0.92, 2 = 0.95, 3 = 0.00, 4 = 0.38, 5 = 0.54, 6 = 0.30, 7 = 0.57, 8 = 0.68, 9 = 0.41, 9 = 0.68, 10 = 0.80, 11 = 0.50, 12 = 0.42, 13 = 0.53, 14 = 0.78, 15 = 0.00, 16 = 0.84, 16 = 0.78, 18 = 0.66, 19 = 0.65, 20 = 0.79, 21 = 0.88, 22 = 0.73, 23 = 0.74, 24 = 0.58, 25 = 0.65, 26 = 0.51, 27 = 0.51, 28 = 0.84, 29 = 0.51, 30 = 0.51, 31 = 0.51 and 32 = 0.51	12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 2-30,26-27 6-0-0 oc bracing: 23-24.			13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
WEBS	1 Row at midpt 10-25			LOAD CASE(S) Standard
JOINTS	1 Brace at Jt(s): 31, 32	NOTES	1) Unbalanced roof live loads have been considered for this design.	1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.			Uniform loads (lb/ft)

REACTIONS (lb/size) 2=1566/0-5-8, (min. 0-3-4), 16=1505/0-5-8, (min. 0-3-1) Max Horiz 2=199 (LC 15) Max Uplift 2=-159 (LC 16), 16=-125 (LC 16) Max Grav 2=2075 (LC 39), 16=1963 (LC 39)	2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=38ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-3-12 to 2-5-12, Interior (1) 2-5-12 to 17-0-0, Exterior(2E) 17-0-0 to 18-11-0, Exterior(2R) 18-11-0 to 24-3-5, Interior (1) 24-3-5 to 38-2-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 3) **TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps= varies (19.2 psf Lum DOL=1.15 Plate DOL=1.15) see load cases; Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. 4) Roof design snow load has been reduced to account for slope. 5) Unbalanced snow loads have been considered for this design.	Uniform Loads (lb/ft) Vert: 1-7=-59, 7-9=-59, 9-17=-59, 25-33=-20, 22-24=-20, 20-21=-20, 19-37=-20
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1398/128, 3-41=-3448/255, 4-41=-3430/259, 4-42=-3397/288, 5-42=-3194/306, 5-6=-2552/269, 6-43=-2520/281, 7-43=-2367/303, 7-8=-2160/306, 8-9=-1962/286, 9-10=-2481/320, 10-44=-3619/422, 44-45=-3711/411, 11-45=-3719/410, 11-12=-3814/403, 12-46=-3750/348, 13-46=-3823/335, 13-47=-4558/393, 14-47=-4584/385, 14-15=-2735/252, 15-16=-586/84		

Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	T07	Roof Special	1	1	Job Reference (optional)



Scale = 1:74.4

Plate Offsets (X, Y): [12:0-3-6,Edge], [19:0-4-8,Edge], [21:0-4-0,0-2-8], [23:0-6-12,Edge], [24:0-1-7,0-10-4], [24:0-4-8,0-3-0]

loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	-0.32	6-21	>999	240	MT20	185/148
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.56	21-22	>798	180	MT20HS	148/108
TCDL	10.0	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.36	14	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS								
BCDL	10.0											
Weight: 247 lb FT = 20%												

LUMBER
TOP CHORD 2x4 SP 2400F 2.0E *Except* T2,T4:2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except* B1,B2,B8:2x4 SP 2400F 2.0E, F1:2x12 HF No.2
WEBS 2x4 SPF No.2 *Except* W1:2x6 SP 2400F 2.0E, W2:2x4 SP 2400F 2.0E

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-2-1 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 12-13.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 16-17.
1 Row at midpt 8-19
WEBS 1 Row at midpt 7-19, 12-14, 9-19, 5-21

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 14=1472/0-5-7, (min. 0-1-9), 24=1566/0-5-8, (min. 0-1-8)
Max Horiz 24=235 (LC 15)
Max Uplift 14=-114 (LC 16), 24=-165 (LC 16)
Max Grav 14=1875 (LC 2), 24=2003 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-24=-2022/250, 2-26=-6261/687, 3-26=-6168/698, 3-4=-3946/381, 4-5=-3792/396, 5-27=-2845/327, 27-28=-2687/330, 6-28=-2619/342, 6-7=-2755/430, 7-8=-2137/372, 8-29=-2108/330, 29-30=-2119/320, 30-31=-2190/312, 9-31=-2202/310, 9-10=-3258/408, 10-32=-3331/398, 11-32=-3417/389, 11-12=-3480/327
BOT CHORD 23-24=-156/416, 22-23=-663/5306, 21-22=-360/3496, 6-21=-434/184, 8-19=-276/122, 11-15=-497/139, 14-15=-451/3929

WEBS 2-23=-561/5358, 3-23=-130/1196, 19-21=-119/1979, 7-21=-265/1939, 7-19=-204/454, 12-14=-4138/487, 12-15=-954/189, 9-19=-596/121, 9-17=-744/133, 9-15=-167/1529, 17-19=-187/2082, 15-17=-131/2059, 5-22=0/488, 5-21=-1198/167, 3-22=-1833/307

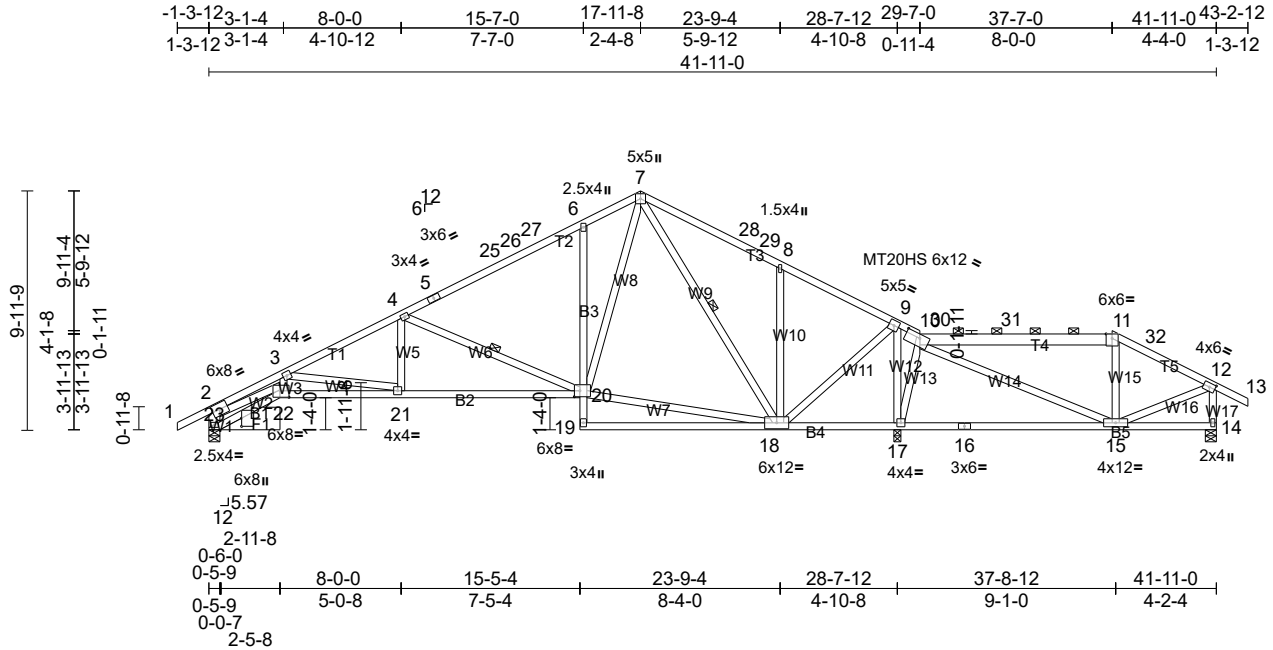
JOINT STRESS INDEX
2 = 0.75, 3 = 0.73, 4 = 0.62, 5 = 0.66, 6 = 0.68, 7 = 0.65, 8 = 0.38, 9 = 0.79, 10 = 0.36, 11 = 0.56, 12 = 0.76, 13 = 0.88, 14 = 0.81, 15 = 0.75, 16 = 0.64, 17 = 0.77, 18 = 0.62, 19 = 0.79, 20 = 0.49, 21 = 0.80, 22 = 0.71, 23 = 0.88, 24 = 0.57, 24 = 0.08 and 24 = 0.75

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=38ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-3-12 to 2-5-12, Interior (1) 2-5-12 to 17-11-8, Exterior(2R) 17-11-8 to 21-9-0, Interior (1) 21-9-0 to 37-9-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - **TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps= varies (19.2 psf Lum DOL=1.15 Plate DOL=1.15) see load cases; Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - Roof design snow load has been reduced to account for slope.
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 24 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 165 lb uplift at joint 24 and 114 lb uplift at joint 14.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-59, 2-7=-59, 7-12=-59, 12-13=-59, 23-24=-20, 21-23=-20, 19-20=-20, 16-18=-20, 14-15=-20

Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	T08	Roof Special	1	1	Job Reference (optional)



Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	T09	Roof Special	1	1	Job Reference (optional)

Millard Lumber, Inc., Waverly NE 68462

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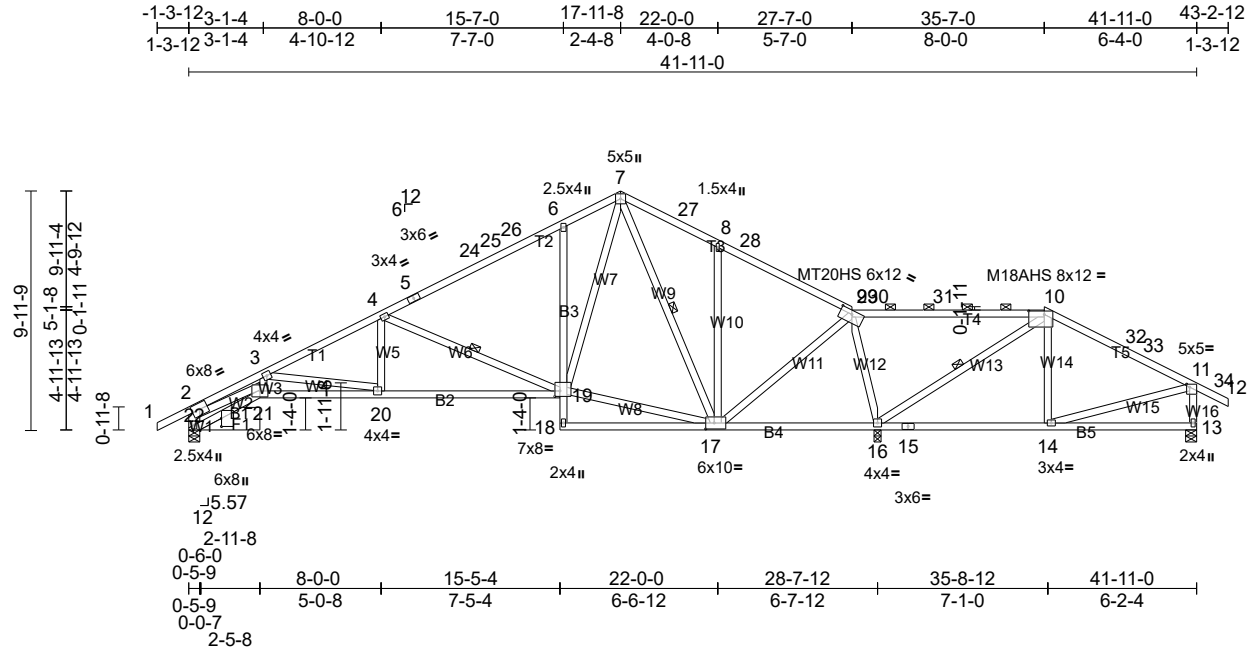


Plate Offsets (X, Y): [9:0-6-0,0-2-0], [10:0-7-12,0-1-12], [11:0-1-8,0-1-8], [17:0-4-4,0-3-0], [19:0-2-8,0-2-12], [22:0-4-0,0-0-1]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	-0.18	20-21	>999	240	MT20	197/144
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.34	19-20	>999	180	MT20HS	148/108
TCDL	10.0	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.20	16	n/a	n/a	M18AHS	142/136
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 227 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SPF No.2 *Except* T4:2x4 SP 2400F 2.0E
BOT CHORD 2x4 SPF No.2 *Except* B4:2x4 SP 2400F 2.0E, F1:2x12 HF No.2
WEBS 2x4 SPF No.2 *Except* W1:2x6 SPF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-9-9 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 9-10.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 4-19, 7-17, 10-16

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 13=135/0-5-8, (min. 0-1-8), 16=2311/0-3-8, (min. 0-2-7), 22=991/0-5-8, (min. 0-1-11)
Max Horiz 22=244 (LC 15)
Max Uplift 13=-214 (LC 58), 16=-171 (LC 16), 22=-124 (LC 16)
Max Grav 13=454 (LC 47), 16=2941 (LC 2), 22=1272 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-22=-1268/159, 2-3=-3614/351, 3-4=-2138/196, 4-5=-1099/158, 5-24=-963/171, 24-25=-955/172, 25-26=-924/176, 6-26=-857/187, 6-7=-1022/264, 7-27=-390/235, 8-27=-482/219, 8-28=-296/146, 9-28=-501/134, 9-29=-151/1644, 29-30=-151/1644, 30-31=-151/1644, 10-31=-151/1644, 10-32=-80/527, 32-33=-100/496, 11-33=-189/490, 11-13=-399/265
BOT CHORD 21-22=-214/346, 20-21=-320/3055, 19-20=-141/1884, 6-19=-537/208, 16-17=-1228/184, 15-16=-457/98, 14-15=-457/98

WEBS 2-21=-255/3075, 3-21=-51/765, 4-20=0/431, 4-19=-1116/152, 17-19=0/487, 7-19=-188/1194, 7-17=-843/34, 9-17=-157/1881, 9-16=-1898/287, 10-16=-1656/219, 3-20=-1238/181, 10-14=0/334, 11-14=-498/109, 8-17=-542/171

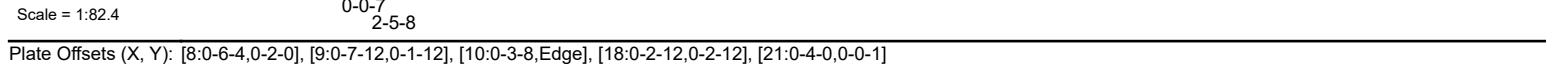
JOINT STRESS INDEX
2 = 0.76, 3 = 0.65, 4 = 0.66, 5 = 0.17, 6 = 0.72, 7 = 0.67, 8 = 0.51, 9 = 0.74, 10 = 0.80, 11 = 0.78, 13 = 0.65, 14 = 0.54, 15 = 0.17, 16 = 0.76, 17 = 0.79, 18 = 0.62, 19 = 0.79, 20 = 0.72, 21 = 0.98, 22 = 0.77 and 22 = 0.12

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=42ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-3-12 to 3-1-4, Interior (1) 3-1-4 to 17-11-8, Exterior(2R) 17-11-8 to 22-0-0, Interior (1) 22-0-0 to 35-7-0, Exterior(2R) 35-7-0 to 39-9-4, Interior (1) 39-9-4 to 43-2-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) **TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps= varies (19.2 psf Lum DOL=1.15 Plate DOL=1.15) see load cases; Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - 4) Roof design snow load has been reduced to account for slope.
 - 5) Unbalanced snow loads have been considered for this design.
 - 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.
 - 7) Provide adequate drainage to prevent water ponding.
 - 8) All plates are MT20 plates unless otherwise indicated.
 - 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 10) * 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.
- 11) Bearing at joint(s) 22 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 124 lb uplift at joint 22, 171 lb uplift at joint 16 and 214 lb uplift at joint 13.
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-59, 2-7=-59, 7-9=-59, 9-10=-59, 10-11=-59, 11-12=-59, 21-22=-20, 19-21=-20, 13-18=-20

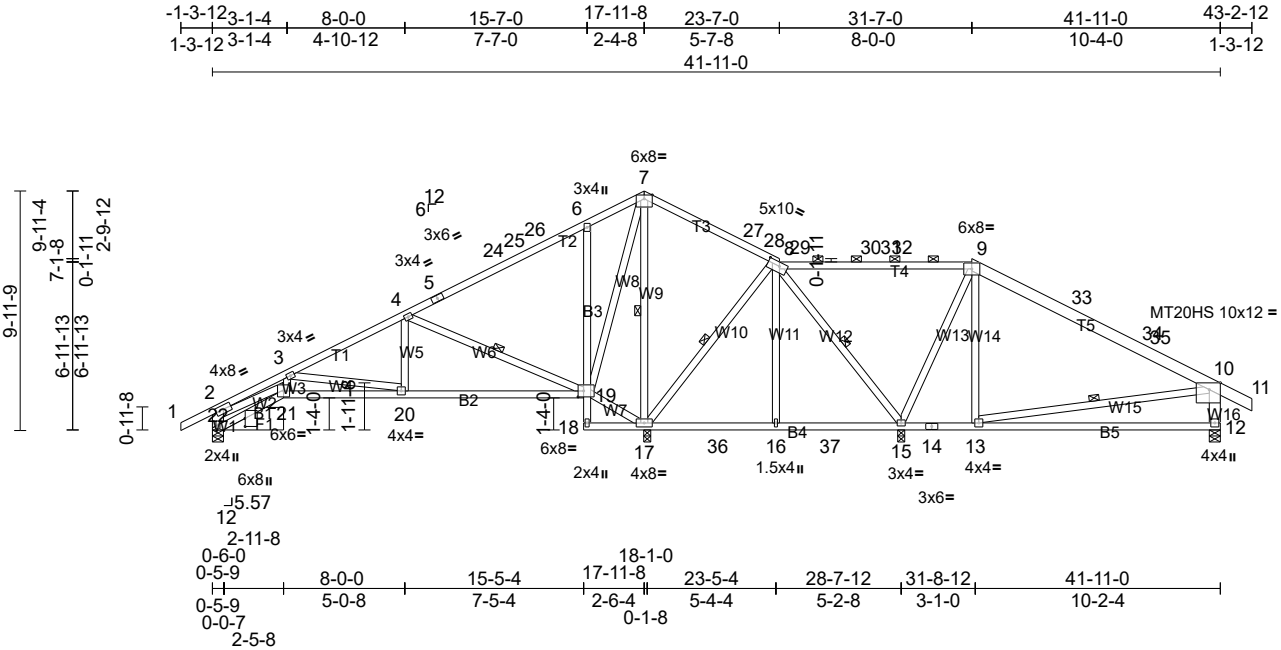
Millard Lumber, Inc., Waverly NE 68462 Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Mon Jun 30 14:50:13 Page: ID:KnNT03Pi4UI xDseVNAeUqz14nn-cMiTh2UCZ9UUnul2aOU13d?rMsmL1YkbbtrDRjz13i8



LUMBER		BOT CHORD		20-21=-214/346, 19-20=-310/3038, 18-19=-135/1870, 6-18=-509/183, 15-16=-575/155, 14-15=-571/136, 13-14=-571/136, 12-13=-51/284		9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.	
TOP CHORD	2x4 SP 2400F 2.0E *Except* T2,T1:2x4 SPF No.2	BOT CHORD	2x4 SPF No.2 *Except* B4:2x4 SP 2400F 2.0E, F1:2x12 HF No.2	WEBS	2-20=-246/3052, 3-20=-49/761, 4-19=0/432, 4-18=-1120/152, 16-18=0/435, 7-18=-150/1147, 7-16=-1543/141, 8-16=-5/1346, 8-15=-2012/220, 9-13=0/397, 10-13=-681/175, 3-19=-1232/178, 9-15=-1512/195		10) * 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.
BRACING		WEBS	2x4 SPF No.2 *Except* W1:2x6 SPF No.2				11) Bearing at joint(s) 21 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
TOP CHORD	Structural wood sheathing directly applied or 2-9-13 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 8-9.			JOINT STRESS INDEX	2 = 0.75, 3 = 0.65, 4 = 0.66, 5 = 0.17, 6 = 0.82, 7 = 0.78, 8 = 0.79, 9 = 0.81, 10 = 0.74, 12 = 0.85, 13 = 0.39, 14 = 0.17, 15 = 0.70, 16 = 0.73, 17 = 0.68, 18 = 0.79, 19 = 0.71, 20 = 0.98, 21 = 0.77 and 21 = 0.12		12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 121 lb uplift at joint 21, 180 lb uplift at joint 15 and 225 lb uplift at joint 12.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 6-0-0 oc bracing: 15-16,13-15.						13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
WEBS	1 Row at midpt 4-18, 8-15, 10-13, 9-15			NOTES			14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
WEBS	2 Rows at 1/3 pts 7-16			1) Unbalanced roof live loads have been considered for this design.			LOAD CASE(S) Standard
	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.			2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Wdes=94mph; TCDI=4.8nft; RCDI=6.0nft; h=15ft.			1) Dead + Snow (balanced): Lumber Increases=1.15 Plate

REACTIONS (lb/size) 12=124/0-5-8, (min. 0-1-8), 15=2327/0-3-8, (min. 0-2-7), 21=986/0-5-8, (min. 0-1-11) Max Horiz 21=244 (LC 15) Max Uplift 12=-225 (LC 58), 15=-180 (LC 16), 21=-121 (LC 16) Max Grav 12=496 (LC 47), 15=2962 (LC 2), 21=1265 (LC 2)	FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-21=-1262/156, 2-3=-3587/340, 3-4=-2122/189, 4-5=-1081/152, 5-23=-944/165, 23-24=-937/166, 24-25=-906/170, 6-25=-839/181, 6-7=-968/243, 7-26=0/628, 26-27=-8/605, 27-28=-12/550, 8-28=-106/542, 8-29=-115/1448, 29-30=-115/1448, 30-31=-115/1448, 31-32=-115/1448, 9-32=-115/1448, 9-33=-52/663, 33-34=-52/626, 34-35=-58/615, 10-35=-76/598, 10-12=-419/299	3) **TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps= varies (19.2 psf Lum DOL=1.15 Plate DOL=1.15) see load cases; Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. 4) Roof design snow load has been reduced to account for slope. 5) Unbalanced snow loads have been considered for this design. 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads. 7) Provide adequate drainage to prevent water ponding. 8) All plates are MT20 plates unless otherwise indicated.
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Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	T11	Roof Special	1	1	Job Reference (optional)



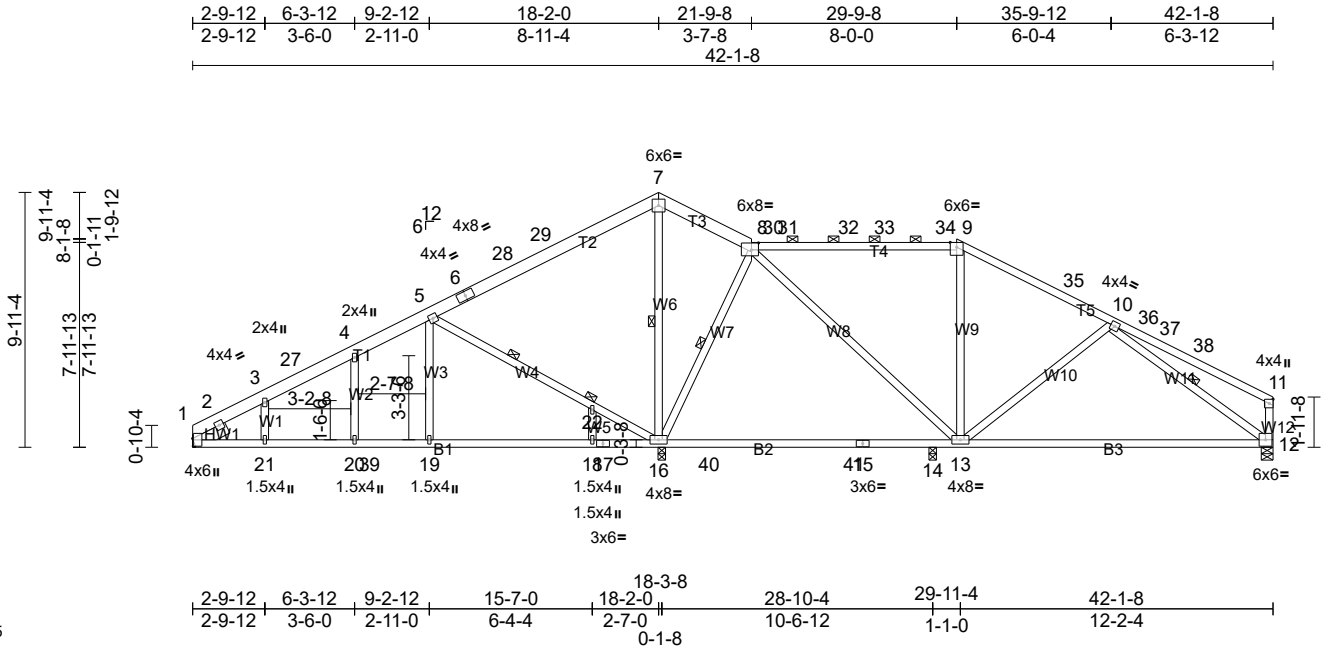
Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	T12	Roof Special	1	1	Job Reference (optional)

Millard Lumber, Inc., Waverly NE 68462

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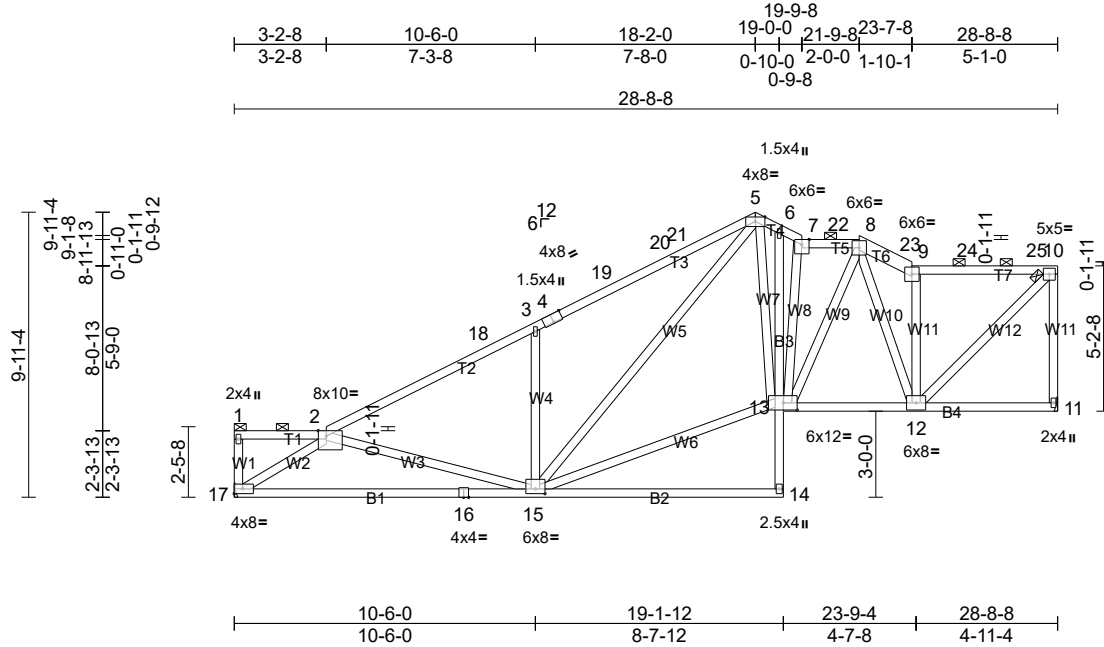
Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	T13	Roof Special	1	1	Job Reference (optional)

Millard Lumber, Inc., Waverly NE 68462

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Scale = 1:70.5

Plate Offsets (X, Y): [2:0-3-6,Edge], [4:0-4-0,Edge], [13:0-5-12,0-3-0], [15:0-4-0,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.58	Vert(LL)	-0.27	15-17	>999	240	MT20	197/144
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.55	15-17	>616	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.06	11	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 174 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SPF No.2 *Except* T3,T2:2x4 SP 2400F 2.0E, T6:2x6 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied or 4-3-14 oc purlins, except end verticals, and 2-0-0 oc purlins (4-7-0 max.): 1-2, 7-8, 9-10.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 15-17.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS	(lb/size)	11=1115/ Mechanical, (min. 0-1-8), 17=1115/ Mechanical, (min. 0-1-8)
	Max Horiz	17=236 (LC 13)
	Max Uplift	11=-95 (LC 16), 17=-78 (LC 16)
	Max Grav	11=1421 (LC 2), 17=1421 (LC 2)

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

TOP CHORD	2-18=-2190/183, 3-18=-1895/202, 3-4=-2245/310, 4-19=-2219/313, 19-20=-2059/329, 20-21=-2038/330, 5-21=-2011/343, 5-6=-1539/250, 6-7=-1655/271, 7-22=-1562/253, 8-22=-1565/253, 8-23=-1405/234, 9-23=-1420/227, 9-24=-1205/183, 24-25=-1205/183, 10-25=-1205/183, 10-11=-1375/237
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BOT CHORD	16-17=-473/1937, 15-16=-473/1937, 12-13=-283/1291
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WEBS	2-17=-2289/305, 3-15=-826/245, 7-13=-781/146, 8-13=-127/674, 9-12=-911/173, 10-12=-261/1674, 8-12=-282/99, 13-15=-341/1424, 5-13=-21/659, 5-15=-161/779
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JOINT STRESS INDEX

1 = 0.66, 2 = 0.80, 3 = 0.51, 4 = 0.73, 5 = 0.72, 6 = 0.63, 7 = 0.70, 8 = 0.51, 9 = 0.51, 10 = 0.71, 11 = 0.98, 12 = 0.69, 13 = 0.70, 14 = 0.82, 15 = 0.68, 16 = 0.74 and 17 = 0.66

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=29ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-2-8, Interior (1) 3-2-8 to 18-2-0, Exterior(2E) 18-2-0 to 19-9-8, Interior (1) 19-9-8 to 21-9-8, Exterior(2E) 21-9-8 to 23-7-8, Interior (1) 23-7-8 to 28-6-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- **TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps= varies (19.2 psf Lum DOL=1.15 Plate DOL=1.15) see load cases; Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 78 lb uplift at joint 17 and 95 lb uplift at joint 11.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-2=-59, 2-5=-59, 5-7=-59, 7-8=-59, 8-9=-59, 9-10=-59, 14-17=-20, 11-13=-20

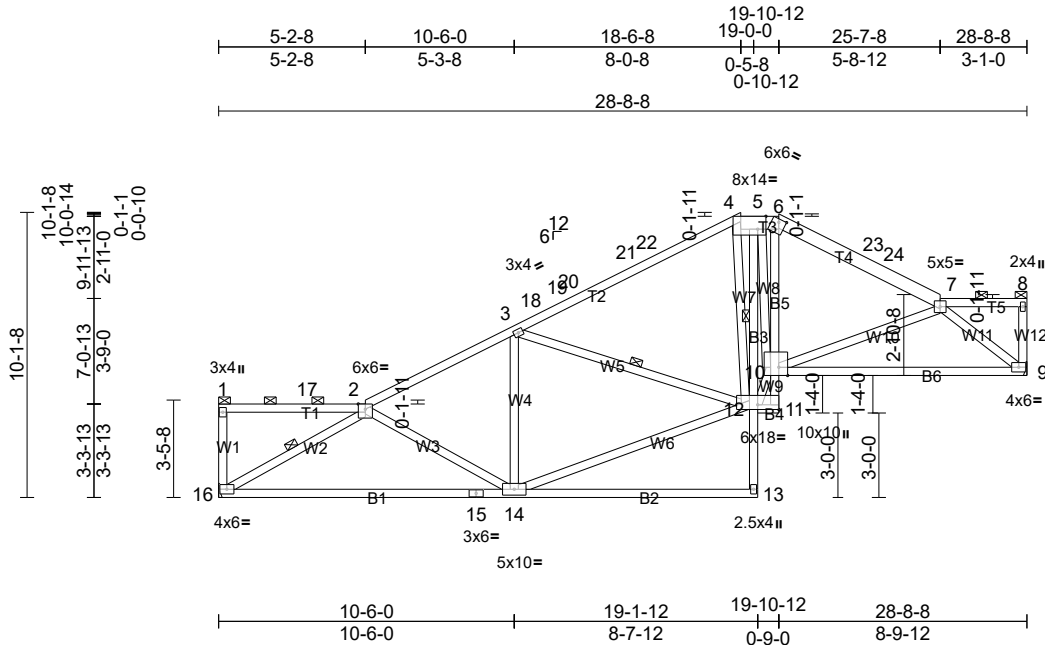
Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	T14	Roof Special	1	1	Job Reference (optional)

Millard Lumber, Inc., Waverly NE 68462

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Scale = 1:71.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	-0.29	14-16	>999	240	MT20	197/144
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.59	14-16	>577	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.14	9	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 167 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SPF No.2 *Except* T2:2x4 SP 2400F 2.0E, T3:2x6 SP 2400F 2.0E, T4:2x6 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied or 4-7-1 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-2, 4-6, 7-8.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing. Except:
1 Row at midpt	5-12
WEBS	1 Row at midpt 2-16, 3-12

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS

(lb/size)	9=1115/ Mechanical, (min. 0-1-8), 16=1115/ Mechanical, (min. 0-1-8)
Max Horiz	16=-189 (LC 14)
Max Uplift	9=-97 (LC 16), 16=-76 (LC 16)
Max Grav	9=1421 (LC 2), 16=1421 (LC 2)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-16=-258/58, 2-3=-2161/190, 3-18=-1818/211, 18-19=-1779/212, 19-20=-1720/217, 20-21=-1633/226, 21-22=-1630/227, 4-22=-1598/242, 4-5=-1256/237, 5-6=-1713/288, 6-23=-1969/289, 23-24=-1970/276, 7-24=-2066/273
BOT CHORD	15-16=-384/1955, 14-15=-384/1955, 5-12=-1154/134, 6-10=-43/414, 9-10=-277/1585
WEBS	2-16=-2240/270, 10-12=-367/2783, 5-10=-238/2156, 7-10=-36/282, 7-9=-2010/343, 3-14=-396/179, 12-14=-313/1980, 4-12=-356/112, 3-12=-457/77

JOINT STRESS INDEX

1 = 0.99, 2 = 0.59, 3 = 0.66, 4 = 0.97, 4 = 0.97, 5 = 0.75, 6 = 0.74, 7 = 0.59, 8 = 0.58, 9 = 0.73, 10 = 0.78, 11 = 0.20, 11 = 0.77, 12 = 0.77, 13 = 0.77, 14 = 0.73, 15 = 0.75 and 16 = 0.79

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=29ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 18-6-8, Exterior(2E) 18-6-8 to 19-10-12, Exterior(2R) 19-10-12 to 22-10-12, Interior (1) 22-10-12 to 28-6-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- **TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps= varies (19.2 psf Lum DOL=1.15 Plate DOL=1.15) see load cases; Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 76 lb uplift at joint 16 and 97 lb uplift at joint 9.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-59, 2-4=-59, 4-6=-59, 6-7=-59, 7-8=-59, 13-16=-20, 11-12=-20, 9-10=-20

Millard Lumber, Inc., Waverly NE 68462 Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Mon Jun 30 14:50:15 Page: ID:IX5nZbNMqszc0C1gzhksez5k3b-YlrD6kVS5nkC0BRripWV82478fRKVUhu38MKWcz1316

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LOAD CASE(S) Standard
 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (lb/ft)
 Vert: 1-2=-59, 2-4=-59, 4-7=-59, 7-8=-59, 15-18=-20, 13-14=-20, 11-12=-20, 9-10=-20

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft;
B=45ft; L=29ft; eave=4ft; Cat. II; Exp C; Enclosed;
MWFRS (directional) and C-C Exterior(2E) 0-1-12 to
3-1-12, Interior (1) 3-1-12 to 19-0-0, Exterior(2R) 19-0-0
to 22-0-0, Interior (1) 22-0-0 to 28-6-12 zone; cantilever
left and right exposed ; end vertical left and right
exposed;C-C for members and forces & MWFRS for
reactions shown; Lumber DOL=1.60 plate grip
DOL=1.60
- 3) **TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum
DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps= varies
(19.2 psf Lum DOL=1.15 Plate DOL=1.15) see load
cases; Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0;
Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load
governs.
- 4) Roof design snow load has been reduced to account for
slope.
- 5) Unbalanced snow loads have been considered for this
design.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 81 lb uplift at joint
18 and 93 lb uplift at joint 9.
- 11) This truss is designed in accordance with the 2018
International Residential Code sections R502.11.1 and
R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size
or the orientation of the purlin along the top and/or
bottom chord.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

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

WEBS 2-18=-2152/257, 2-16=-369/100,
3-16=-426/153, 14-16=-297/1999,
3-14=-519/93, 12-14=-353/2680,
6-12=-496/80, 9-11=-131/593,
7-11=-157/1405, 7-9=-1768/268,
4-12=-161/1731

JOINT STRESS INDEX

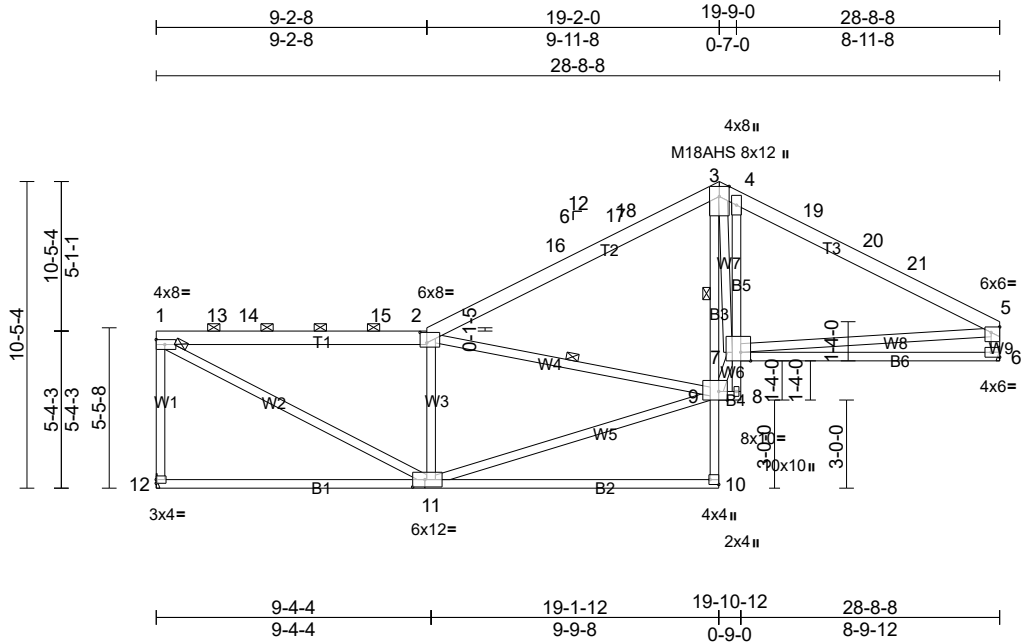
Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	T16	Roof Special	1	1	Job Reference (optional)

Millard Lumber, Inc., Waverly NE 68462

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Scale = 1:71.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	1.00	Vert(LL)	-0.22	10-11	>999	240	MT20	197/144
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.47	10-11	>722	180	M18AHS	142/136
TCDL	10.0	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.09	6	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 170 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 1-2.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 8-9.

1 Row at midpt 3-9
WEBS 1 Row at midpt 2-9

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 6=1115/ Mechanical, (min. 0-1-8), 12=1115/ Mechanical, (min. 0-1-8)
Max Horiz 12=-227 (LC 14)
Max Uplift 6=-95 (LC 16), 12=-79 (LC 16)
Max Grav 6=1421 (LC 2), 12=1421 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-1341/197, 1-13=-1896/213, 13-14=-1895/213, 14-15=-1895/213, 2-15=-1894/213, 2-16=-1700/215, 16-17=-1524/216, 17-18=-1455/224, 3-18=-1442/237, 3-4=-1692/324, 4-19=-1800/282, 19-20=-1873/263, 20-21=-1887/260, 5-21=-2034/257, 5-6=-1324/223
BOT CHORD 3-9=-1390/135, 4-7=-441/684, 6-7=-44/368
WEBS 1-11=-230/2107, 2-11=-1363/277, 9-11=-278/1928, 2-9=-603/89, 7-9=-215/2522, 5-7=-151/1328, 3-7=-208/2060

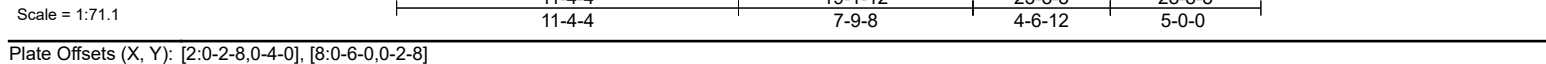
JOINT STRESS INDEX
1 = 0.74, 2 = 0.75, 3 = 0.93, 4 = 0.49, 5 = 0.80, 6 = 0.89, 7 = 0.77, 8 = 0.69, 9 = 0.75, 10 = 0.62, 11 = 0.75 and 12 = 0.67

NOTES

- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=29ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 19-0-0, Exterior(2R) 19-0-0 to 22-0-0, Interior (1) 22-0-0 to 28-6-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - **TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps= varies (19.2 psf Lum DOL=1.15 Plate DOL=1.15) see load cases; Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - Roof design snow load has been reduced to account for slope.
 - Unbalanced snow loads have been considered for this design.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 79 lb uplift at joint 12 and 95 lb uplift at joint 6.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- LOAD CASE(S)** Standard
- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)

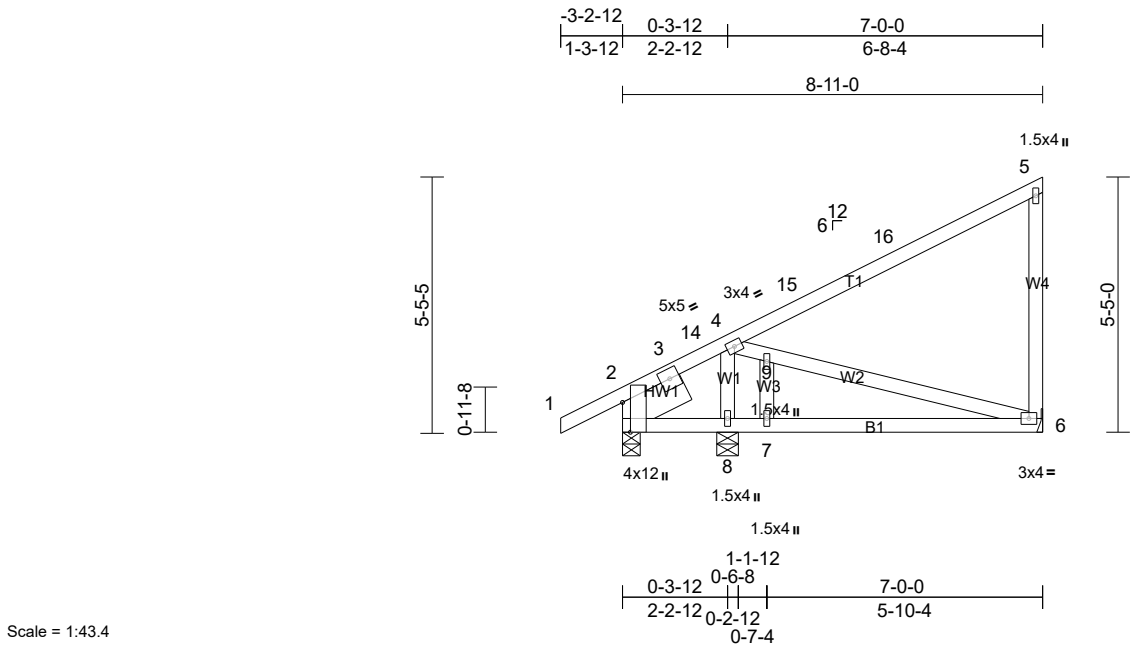
Vert: 1-2=-59, 2-3=-59, 3-5=-59, 10-12=-20, 8-9=-20, 6-7=-20

Millard Lumber, Inc., Waverly NE 68462 Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Mon Jun 30 14:50:16 Page: 1
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LUMBER		1) Unbalanced roof live loads have been considered for this design.	Vert: 1-2=-59, 2-3=-59, 3-5=-59, 9-12=-20, 6-8=-20
TOP CHORD	2x6 SPF No.2 *Except* T1:2x6 SP 2400F 2.0E	2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=29ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 19-0-0, Exterior(2R) 19-0-0 to 22-0-0, Interior (1) 22-0-0 to 28-6-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60	
BOT CHORD	2x4 SPF No.2		
WEBS	2x4 SPF No.2		
BRACING			
TOP CHORD	Structural wood sheathing directly applied or 5-0-10 oc purlins, except end verticals, and 2-0-0 oc purlins (5-7-10 max.): 1-2.	3) **TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps= varies (19.2 psf Lum DOL=1.15 Plate DOL=1.15) see load cases; Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.	
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 10-12.	4) Roof design snow load has been reduced to account for slope.	
WEBS	1 Row at midpt 1-12, 2-8, 3-7	5) Unbalanced snow loads have been considered for this design.	
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.		6) Provide adequate drainage to prevent water ponding.	
REACTIONS (lb/size)		7) All plates are MT20 plates unless otherwise indicated.	
6=1115/ Mechanical, (min. 0-1-8), 12=1115/ Mechanical, (min. 0-1-8)		8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.	
Max Horiz 12=-255 (LC 14)		9) * 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.	
Max Uplift 6=-90 (LC 16), 12=-84 (LC 16)		10) Refer to girder(s) for truss to truss connections.	
Max Grav 6=1431 (LC 27), 12=1494 (LC 28)		11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 84 lb uplift at joint 12 and 90 lb uplift at joint 6.	
FORCES		12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.	
TOP CHORD	1-12=-1318/228, 1-13=-1788/205, 13-14=-1787/205, 14-15=-1787/205, 2-15=-1786/205, 2-16=-1631/219, 16-17=-1494/227, 17-18=-1477/238, 3-18=-1385/242, 3-19=-1418/271, 4-19=-1488/253, 4-20=-1331/187, 20-21=-1385/186, 5-21=-1472/175, 5-6=-1376/201	LOAD CASE(S) Standard	
BOT CHORD	3-8=-72/1067, 7-8=-177/1383	1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15	
WEBS	1-10=-252/1949, 2-10=-1343/280, 8-10=-266/1961, 2-8=-558/89, 4-7=-428/151, 5-7=-163/1375, 3-7=-309/150	Uniform Loads (lb/ft)	
JOINT STRESS INDEX			
1 = 0.66, 2 = 0.82, 3 = 0.90, 4 = 0.38, 5 = 0.62, 6 = 0.87, 7 = 0.56, 8 = 0.79, 9 = 0.74, 10 = 0.72, 11 = 0.26 and 12 = 0.74			
NOTES			

Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	T18	Monopitch	1	1	Job Reference (optional)



Scale = 1:43.4

Plate Offsets (X, Y): [2:0-7-9,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.05	6-7	>999	240	MT20	197/144
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.10	6-7	>763	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	-0.01	2	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0											
											Weight: 43 lb	FT = 20%

LUMBER		
TOP CHORD	2x4 SPF No.2	
BOT CHORD	2x4 SPF No.2	
WEBS	2x4 SPF No.2	
SLIDER	Left 2x8 SPF No.2 -- 1-6-0	
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.	
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.		
REACTIONS (lb/size)		
	2=-45/0-4-8, (min. 0-1-8), 6=178/ Mechanical, (min. 0-1-8), 8=632/0-5-8, (min. 0-1-8)	
	Max Horiz	2=179 (LC 15)
	Max Uplift	2=-133 (LC 21), 6=-33 (LC 13), 8=-89 (LC 16)
	Max Grav	2=80 (LC 13), 6=249 (LC 21), 8=814 (LC 21)
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		
TOP CHORD	3-14=-349/318, 4-14=-347/332	
WEBS	4-8=-805/426	

JOINT STRESS INDEX
2 = 0.38, 2 = 0.13, 3 = 0.00, 4 = 0.49, 5 = 0.30, 6 = 0.15, 7 = 0.06, 8 = 0.47 and 9 = 0.08

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-7-4 to 3-7-4, Interior (1) 3-7-4 to 10-8-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps=19.2 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 133 lb uplift at joint 2, 89 lb uplift at joint 8 and 33 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

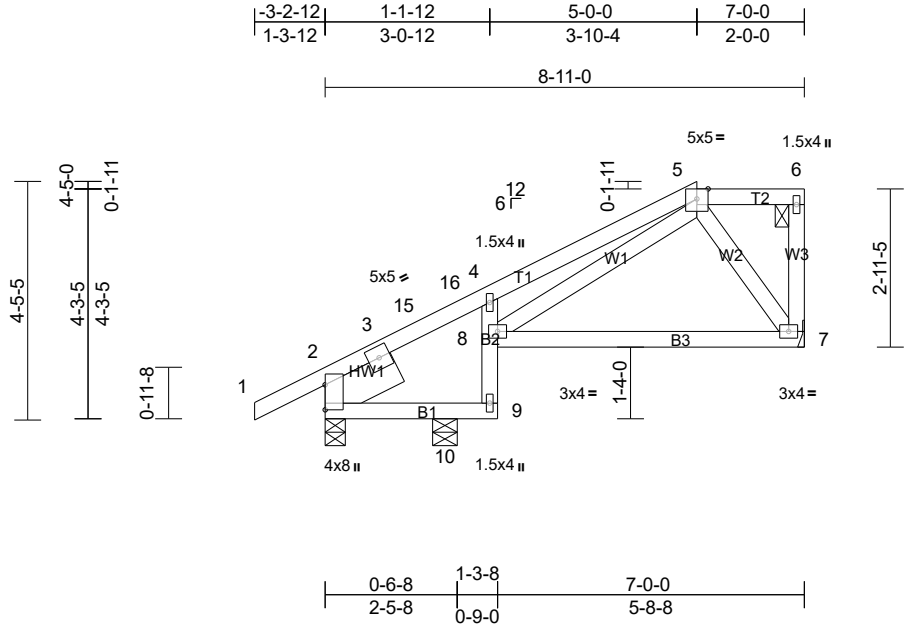
Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	T19	Half Hip	1	1	Job Reference (optional)

Millard Lumber, Inc., Waverly NE 68462

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Scale = 1:38.5

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.07	7-8	>999	240	MT20	197/144
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.14	7-8	>577	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.02	7	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0											
											Weight: 40 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2
SLIDER	Left 2x8 SPF No.2 -- 1-6-0

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 5-6.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size)	2=138/0-4-8, (min. 0-1-8), 7=240/Mechanical, (min. 0-1-8), 10=387/0-5-8, (min. 0-1-8)
Max Horiz	2=116 (LC 13)
Max Uplift	2=-35 (LC 17), 7=-23 (LC 13), 10=65 (LC 13)
Max Grav	2=226 (LC 36), 7=305 (LC 2), 10=567 (LC 36)

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

TOP CHORD	2-3=-242/405, 4-5=-311/117
BOT CHORD	8-9=-323/176, 4-8=-314/216

JOINT STRESS INDEX

2 = 0.61, 2 = 0.23, 3 = 0.00, 4 = 0.27, 5 = 0.08, 6 = 0.06, 7 = 0.16, 8 = 0.14 and 9 = 0.20

NOTES

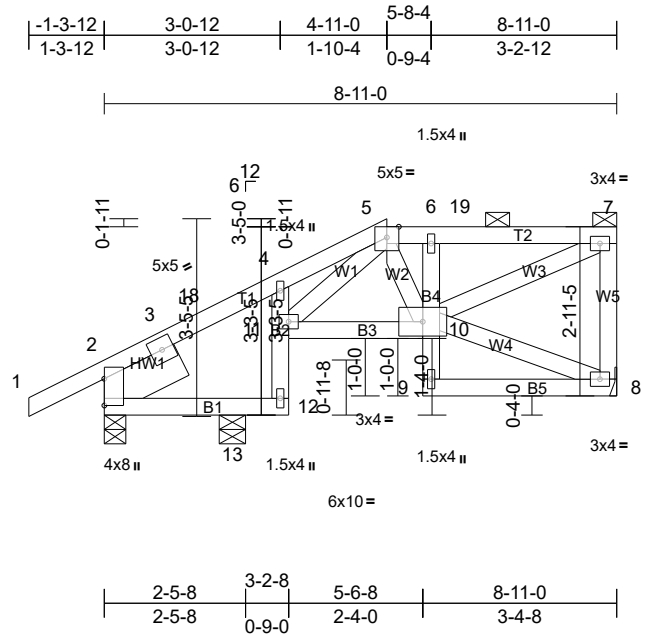
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-7-4 to 3-7-4, Interior (1) 3-7-4 to 8-10-0, Exterior(2E) 8-10-0 to 10-8-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- **TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps= varies (19.2 psf Lum DOL=1.15 Plate DOL=1.15) see load cases; Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 23 lb uplift at joint 7, 35 lb uplift at joint 2 and 65 lb uplift at joint 10.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-5=-59, 5-6=-59, 9-11=-20, 7-8=-20

Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	T20	Half Hip	1	1	Job Reference (optional)



Scale = 1:34.9

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- LUMBER**

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2

SLIDER Left 2x8 SPF No.2 -- 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 2=162/0-4-8, (min. 0-1-8), 8=248/Mechanical, (min. 0-1-8), 13=355/0-5-8, (min. 0-1-8)

Max Horiz 2=100 (LC 15)

Max Uplift 2=-61 (LC 16), 8=-24 (LC 13), 13=67 (LC 13)

Max Grav 2=273 (LC 36), 8=343 (LC 35), 13=450 (LC 2)

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

TOP CHORD 2-3=-228/332, 5-6=-355/143, 6-19=-337/136, 7-19=-337/136, 7-8=-308/130

BOT CHORD 10-11=-150/271, 6-10=-340/155

WEBS 7-10=-155/382

JOINT STRESS INDEX

2 = 0.70, 2 = 0.20, 3 = 0.00, 4 = 0.17, 5 = 0.19, 6 = 0.18, 7 = 0.33, 8 = 0.19, 9 = 0.07, 10 = 0.68, 11 = 0.22 and 12 = 0.15

NOTES

1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-3-12 to 1-8-4, Interior (1) 1-8-4 to 4-11-0, Exterior(2E) 4-11-0 to 8-9-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) **TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps= varies (19.2 psf Lum DOL=1.15 Plate DOL=1.15) see load cases; Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.

4) Roof design snow load has been reduced to account for slope.

5) Unbalanced snow loads have been considered for this design.

6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.

7) Provide adequate drainage to prevent water ponding.

8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

10) Refer to girder(s) for truss to truss connections.

11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 8, 61 lb uplift at joint 2 and 67 lb uplift at joint 13.

12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)
- Vert: 1-5=-59, 5-7=-59, 12-14=-20, 10-11=-20, 8-9=-20

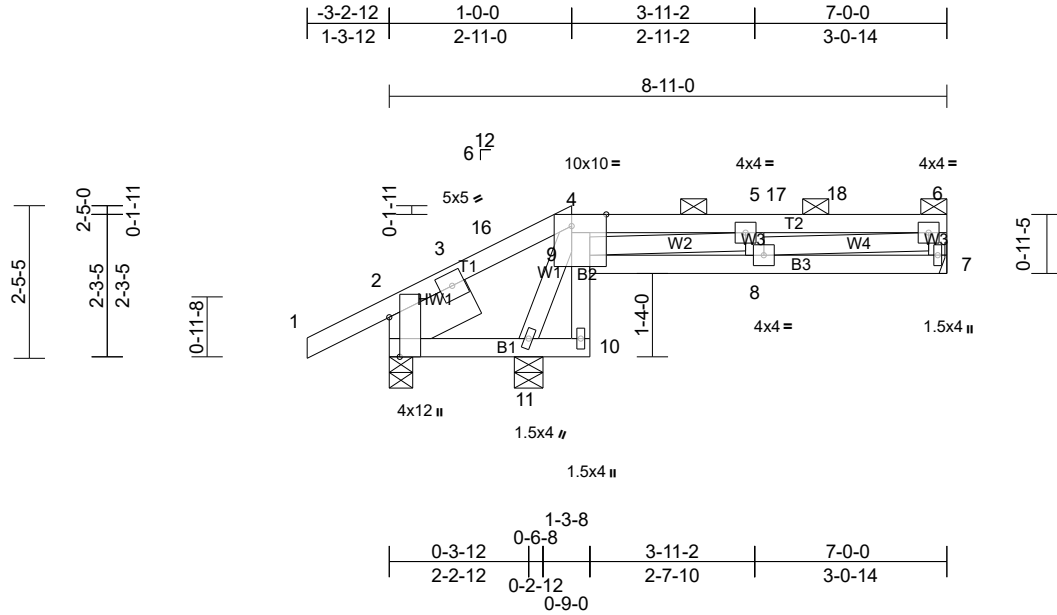
Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	T21	Half Hip	1	1	Job Reference (optional)

Millard Lumber, Inc., Waverly NE 68462

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Scale = 1:32.7

Plate Offsets (X, Y): [2:0-7-9,Edge], [4:0-6-10,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	-0.02	8	>999	240	MT20	197/144
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.04	8	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	7	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0											
											Weight: 37 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2
SLIDER	Left 2x8 SPF No.2 -- 1-6-0

BRACING

TOP CHORD	Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS	(lb/size)	2=89/0-4-8, (min. 0-1-8), 7=227/ Mechanical, (min. 0-1-8), 11=449/0-5-8, (min. 0-1-8)
	Max Horiz	2=50 (LC 16)
	Max Uplift	2=-43 (LC 16), 7=-25 (LC 13), 11=-54 (LC 13)
	Max Grav	2=231 (LC 36), 7=343 (LC 35), 11=577 (LC 35)

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
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TOP CHORD	5-17=-793/222, 17-18=-793/222, 6-18=-793/222, 6-7=-303/94
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BOT CHORD	8-9=-199/796
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WEBS	6-8=-215/812, 5-9=-801/200, 4-11=-426/108
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JOINT STRESS INDEX

2 = 0.45, 2 = 0.05, 3 = 0.00, 4 = 0.15, 4 = 0.26, 5 = 0.46, 6 = 0.47, 7 = 0.18, 8 = 0.47, 9 = 0.26, 10 = 0.04 and 11 = 0.26

NOTES

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-7-4 to 3-7-4, Interior (1) 3-7-4 to 4-10-0, Exterior(2R) 4-10-0 to 9-0-15, Interior (1) 9-0-15 to 10-8-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) **TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps= varies (19.2 psf Lum DOL=1.15 Plate DOL=1.15) see load cases; Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
- 4) Roof design snow load has been reduced to account for slope.
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.
- 7) Provide adequate drainage to prevent water ponding.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Refer to girder(s) for truss to truss connections.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 7, 43 lb uplift at joint 2 and 54 lb uplift at joint 11.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-4=-59, 4-6=-59, 10-12=-20, 7-9=-20

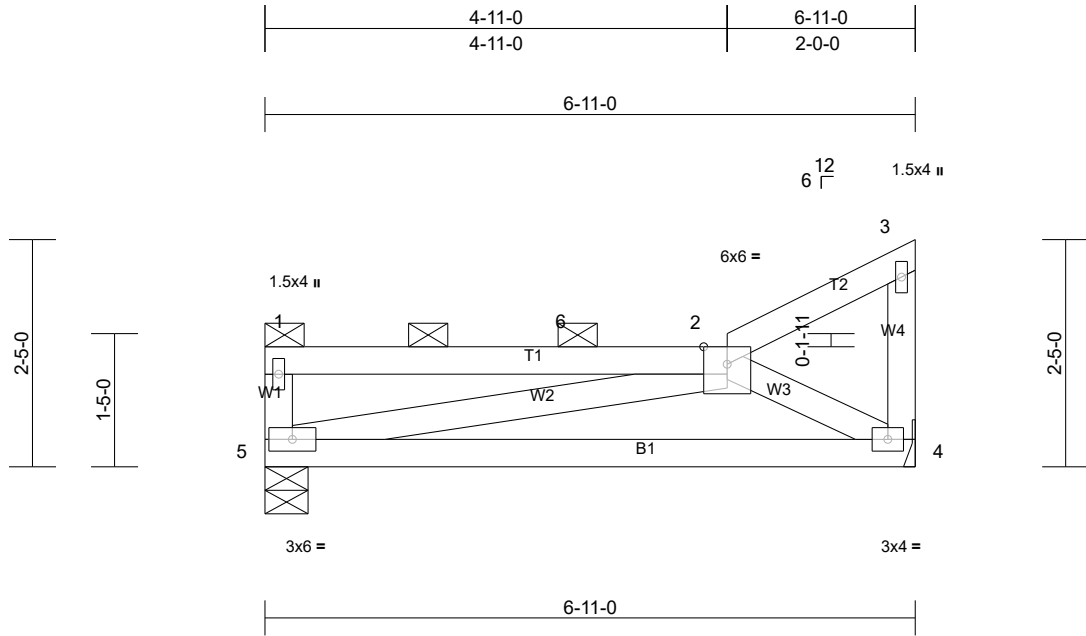
Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	T22	Roof Special	1	1	Job Reference (optional)

Millard Lumber, Inc., Waverly NE 68462

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Scale = 1:20.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.12	4-5	>688	240	MT20	197/144
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.23	4-5	>344	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0											
											Weight: 27 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-11-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-2.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 4=260/ Mechanical, (min. 0-1-8), 5=260/0-5-8, (min. 0-1-8)
Max Horiz 5=69 (LC 13)
Max Uplift 4=-23 (LC 13), 5=-27 (LC 12)
Max Grav 4=331 (LC 2), 5=377 (LC 34)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 4-5=-197/342
WEBS 2-5=-350/194, 2-4=-392/219

JOINT STRESS INDEX

1 = 0.16, 2 = 0.09, 3 = 0.13, 4 = 0.21 and 5 = 0.16

NOTES

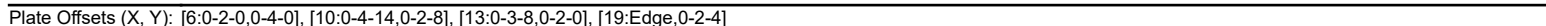
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 6-9-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C- C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) **TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps= varies (19.2 psf Lum DOL=1.15 Plate DOL=1.15) see load cases; Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
- 4) Roof design snow load has been reduced to account for slope.

- 5) Unbalanced snow loads have been considered for this design.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 5 and 23 lb uplift at joint 4.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-59, 2-3=-59, 4-5=-20

Millard Lumber, Inc., Waverly NE 68462 Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Mon Jun 30 14:50:19 Page: ID: 291vC030JfZv3v1z14C -QW5xx6Yv9?EeVpCxfbRJuFtvHpDRFoU mKYfNz1312



LUMBER		WEBS	2-18=-161/1761, 3-18=-690/147, 4-18=-760/92, 4-16=-773/146, 10-13=-89/1994, 2-19=-1605/211, 7-15=-38/874, 8-15=-519/119, 5-16=-96/944, 5-15=-379/130, 1-21=-1872/214	10) Bearing at joint(s) 21 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
TOP CHORD	2x6 SPF No.2 *Except* T2:2x4 SPF No.2			
BOT CHORD	2x4 SPF No.2			
WEBS	2x4 SPF No.2 *Except* W13:2x6 SPF No.2			11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 145 lb uplift at joint
OTHERS	2x6 SPF No.2			

REACTIONS	(lb/size)	12=1484/0-5-8, (min. 0-3-3), 21=1360/0-5-4, (min. 0-1-8)	2-10-8, Exterior(2R) 2-10-8 to 6-3-2, Interior (17)-3-2 to 17-3-8, Exterior(2E) 17-3-8 to 19-3-8, Interior (1) 19-3-8 to 19-11-8, Exterior(2R) 19-11-8 to 23-6-10, Interior (1) 23-6-10 to 37-2-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
	Max Horiz	21=-197 (LC 16)	
	Max Uplift	12=-145 (LC 16), 21=-120 (LC 16)	
	Max Grav	12=2038 (LC 29), 21=1868 (LC 29)	
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		
TOP CHORD	2-22=-1636/231, 22-23=-1636/231, 23-24=-1636/231, 3-24=-1636/231, 3-25=-1636/231, 25-26=-1636/231, 4-26=-1636/231, 4-5=-2336/339, 5-6=-1845/293, 6-7=-1709/260, 7-27=-1970/278, 27-28=-2021/264, 28-29=-2030/263, 29-30=-2046/259, 8-30=-2150/257, 8-9=-2383/247, 9-31=-2473/244, 10-31=-2584/223, 19-21=-152/1712, 1-21=-152/1712, 10-12=-1918/263		3) **TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps= varies (19.2 psf Lum DOL=1.15 Plate DOL=1.15) see load cases; Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
	19-32=0/644, 32-33=0/644, 18-33=0/644, 18-34=-66/2074, 17-34=-66/2074, 16-17=-66/2074, 16-35=-42/1865, 35-36=-42/1865, 15-36=-42/1865, 14-15=-114/2161, 14-37=-114/2161, 13-37=-114/2161		4) Roof design snow load has been reduced to account for slope.
			5) Unbalanced snow loads have been considered for this design.
			6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.
			7) Provide adequate drainage to prevent water ponding.
			8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
			9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
BOT CHORD			

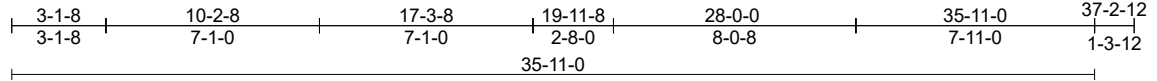
Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	T24	Roof Special	1	1	Job Reference (optional)

Millard Lumber, Inc., Waverly NE 68462

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Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	T25	Roof Special	1	1	Job Reference (optional)

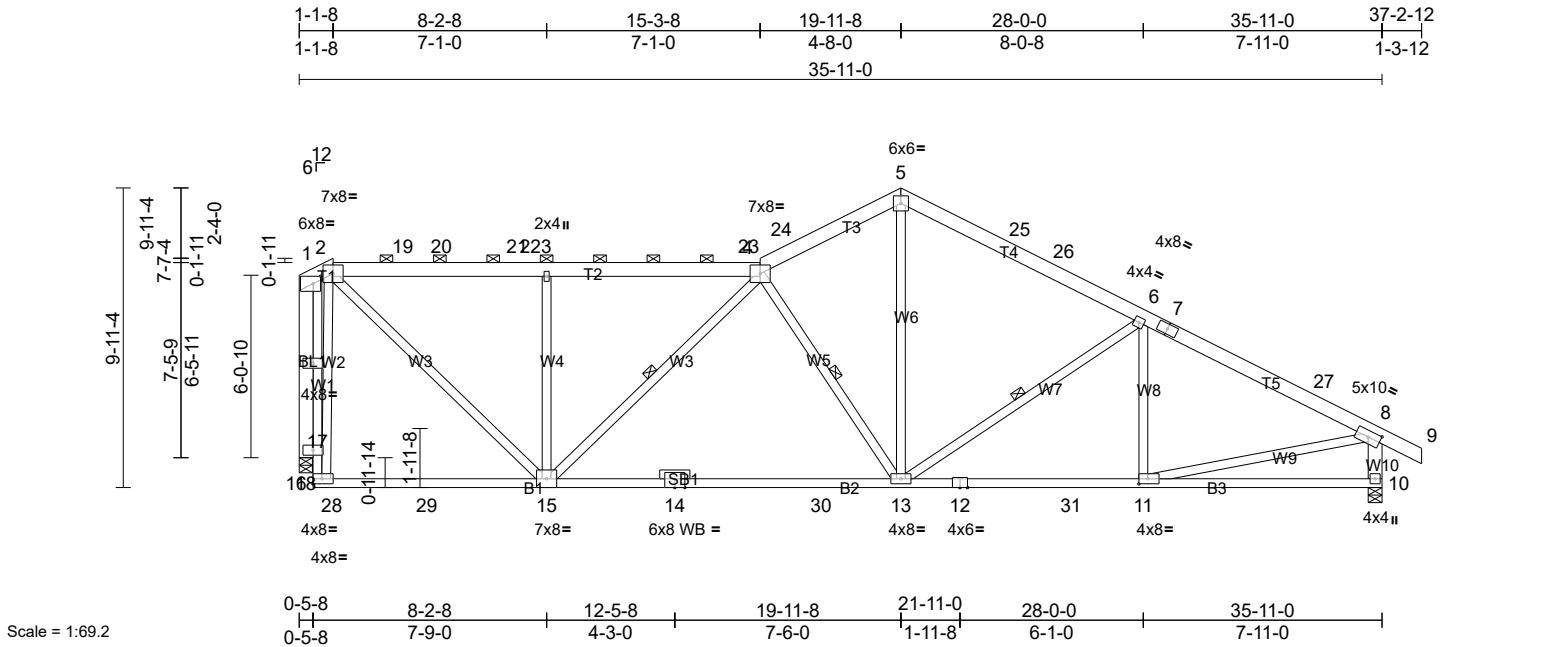


Plate Offsets (X, Y): [1:0-3-0,0-3-0], [8:0-4-14,0-2-8], [11:0-3-8,0-2-0]

loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	-0.49	13-15	>863	240	MT20	197/144
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.82	13-15	>518	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.08	10	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 226 lb	FT = 20%

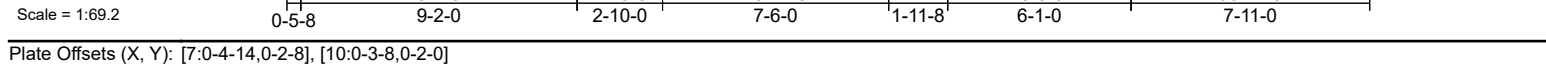
LUMBER	
TOP CHORD	2x6 SPF No.2 *Except* T1:2x6 SP 2400F 2.0E
BOT CHORD	2x4 SP 2400F 2.0E *Except* B3:2x4 SPF No.2
WEBS	2x4 SPF No.2 *Except* W10:2x6 SPF No.2
OTHERS	2x6 SPF No.2 *Except* SB1:2x4 SP 2400F 2.0E
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 4-6-7 oc purlins, except end verticals, and 2-0-0 oc purlins (5-2-7 max.): 2-4.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 4-15, 4-13, 6-13
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.	

REACTIONS (lb/size)	
10=1484/0-5-8, (min. 0-3-3), 18=1360/0-5-4, (min. 0-1-8)	
Max Horiz	18=-197 (LC 16)
Max Uplift	10=-145 (LC 16), 18=-120 (LC 16)
Max Grav	10=2017 (LC 29), 18=1856 (LC 29)
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-2=-395/84, 2-19=-1773/200, 19-20=-1773/200, 20-21=-1773/200, 21-22=-1774/200, 3-22=-1775/200, 3-23=-1775/200, 4-23=-1772/200, 4-24=-2108/264, 5-24=-1983/280, 5-25=-2010/252, 25-26=-2013/236, 6-26=-2140/230, 6-7=-2341/237, 7-27=-2354/233, 8-27=-2542/213, 16-18=-87/1211, 1-18=-87/1211, 8-10=-1886/269
BOT CHORD	16-28=-54/314, 28-29=-54/314, 15-29=-54/314, 14-15=-111/2277, 14-30=-111/2277, 13-30=-111/2277, 12-13=-122/2125, 12-31=-122/2125, 11-31=-122/2125

- WEBS** 2-15=-198/2173, 3-15=-859/172, 4-15=-736/131, 4-13=-908/155, 5-13=-75/1407, 6-13=-538/139, 6-11=-251/112, 8-11=-100/1953, 2-16=-1092/127, 1-18=-1862/202
- JOINT STRESS INDEX**
1 = 0.80, 2 = 0.73, 3 = 0.38, 4 = 0.37, 5 = 0.59, 6 = 0.54, 7 = 0.42, 8 = 0.74, 10 = 0.91, 11 = 0.58, 12 = 0.73, 13 = 0.59, 14 = 0.86, 15 = 0.74, 16 = 0.78, 17 = 0.00, 17 = 0.11 and 17 = 0.11
- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-7-4 to 1-1-8, Exterior(2R) 1-1-8 to 4-8-9, Interior (1) 4-8-9 to 19-11-8, Exterior(2R) 19-11-8 to 23-6-10, Interior (1) 23-6-10 to 37-2-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - **TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps= varies (19.2 psf Lum DOL=1.15 Plate DOL=1.15) see load cases; Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - Roof design snow load has been reduced to account for slope.
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

- Bearing at joint(s) 18 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 145 lb uplift at joint 10 and 120 lb uplift at joint 18.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- LOAD CASE(S)** Standard
- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-59, 2-4=-59, 4-5=-59, 5-8=-59, 8-9=-59, 10-16=-20

Millard Lumber, Inc., Waverly NE 68462 Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Mon Jun 30 14:50:20 Page: ID:J4?swwnG940TaAfNch5ZJkz142p-uie69RZbwJMV7zKOVm6qr5n1agAEAjkdcQ45Bpz131f



LUMBER		1 = 0.49, 2 = 0.76, 3 = 0.65, 4 = 0.68, 5 = 0.54, 6 = 0.43, 7 = 0.75, 9 = 0.84, 10 = 0.58, 11 = 0.81, 12 = 0.55, 13 = 0.73, 14 = 0.76, 15 = 0.76, 16 = 0.00, 16 = 0.11 and 16 = 0.11	12) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
TOP CHORD	2x6 SPF No.2 *Except* T1:2x4 SPF No.2		
BOT CHORD	2x4 SP 2400F 2.0E *Except* B3:2x4 SPF No.2		13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
WEBS	2x4 SPF No.2 *Except* W10:2x6 SPF No.2		
OTHERS	2x6 SPF No.2		
BRACING		NOTES	LOAD CASE(S) Standard
TOP CHORD	Structural wood sheathing directly applied or 4-6-7 oc purlins, except end verticals, and 2-0-0 oc purlins (3-4-6 max.): 1-3.	1) Unbalanced roof live loads have been considered for this design.	1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-7-4 to 4-2-6, Interior (1) 4-2-6 to 19-11-8, Exterior(2R) 19-11-8 to 23-6-10, Interior (1) 23-6-10 to 37-2-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60	Uniform Loads (lb/ft) Vert: 1-3=-59, 3-4=-58, 4-7=-58, 7-8=-59, 9-15=-20
WEBS	1 Row at midpt 2-15, 3-12, 5-12 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.	3) **TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps= varies (19.2 psf Lum DOL=1.15 Plate DOL=1.15) see load cases; Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.	
REACTIONS	(lb/size) 9=1484/0-5-8, (min. 0-3-2), 17=1360/0-5-4, (min. 0-1-8) Max Horiz 17=-176 (LC 16) Max Uplift 9=-148 (LC 16), 17=-116 (LC 16) Max Grav 9=2006 (LC 29), 17=1839 (LC 29)	4) Roof design snow load has been reduced to account for slope. 5) Unbalanced snow loads have been considered for this design. 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads. 7) Provide adequate drainage to prevent water ponding. 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.	
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		
TOP CHORD	15-17=-108/1662, 1-17=-108/1662, 2-20=-2169/206, 3-20=-2169/206, 3-21=-2106/254, 21-22=-2016/260, 4-22=-2016/276, 4-23=-1978/261, 23-24=-1981/245, 5-24=-2107/239, 5-6=-2329/237, 6-25=-2420/234, 7-25=-2530/213, 7-9=-1880/270		
BOT CHORD	15-26=-49/1732, 26-27=-49/1732, 14-27=-49/1732, 14-28=-136/2550, 13-28=-136/2550, 13-29=-136/2550, 12-29=-136/2550, 11-12=-124/2121, 11-30=-124/2121, 10-30=-124/2121		
WEBS	2-15=-2150/224, 2-14=-20/1157, 3-14=-772/161, 3-12=-1026/137, 4-12=-54/1315, 5-12=-547/132, 7-10=-100/1947, 1-17=-1844/176		
JOINT STRESS INDEX		11) Provide mechanical connection (by others) of truss to bearing plate capable of withholding 148 lb uplift at joint 9 and 116 lb uplift at joint 17.	

Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	T27	Roof Special	1	1	Job Reference (optional)

Millard Lumber, Inc., Waverly NE 68462

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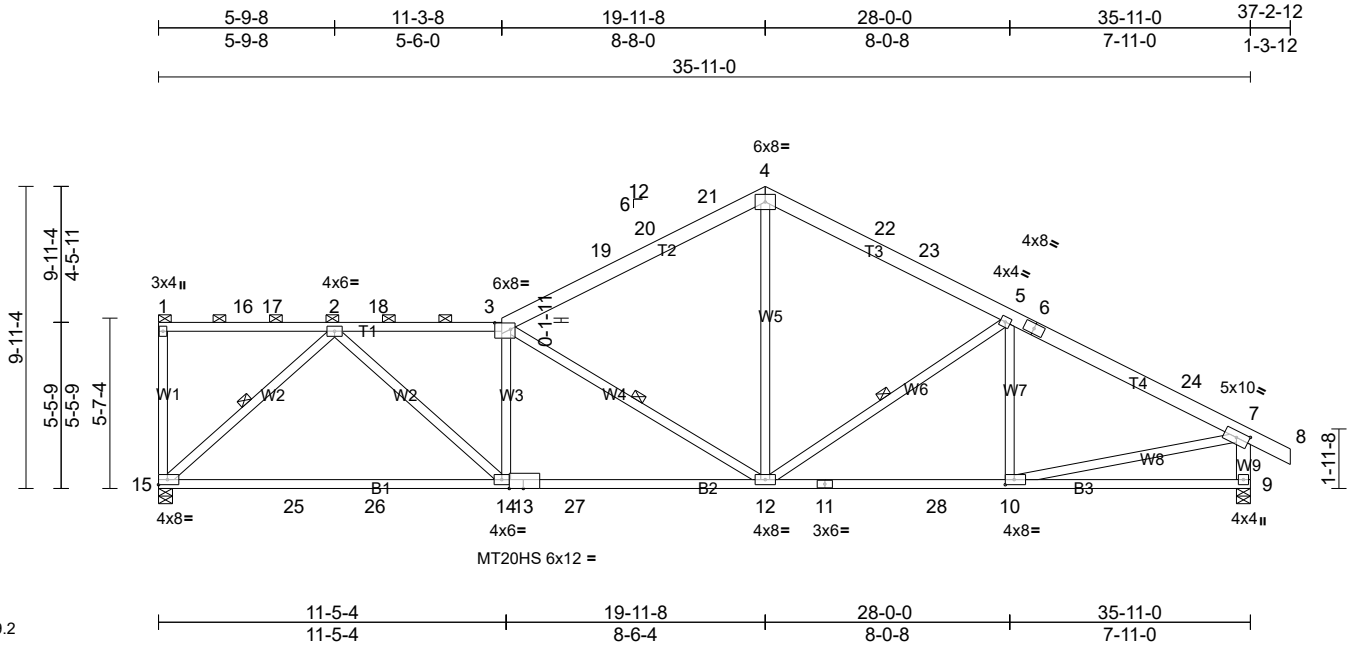


Plate Offsets (X, Y): [3:0-6-4,0-2-8], [7:0-4-14,0-2-8], [10:0-3-8,0-2-0], [13:0-5-9,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.89	Vert(LL)	-0.47	14-15	>910	240	MT20	197/144
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.83	14-15	>515	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.64	Horz(CT)	0.08	9	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 191 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SPF No.2 *Except* T1:2x4 SPF No.2
BOT CHORD 2x4 SP 2400F 2.0E *Except* B3:2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except* W9:2x6 SPF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (3-1-4 max.): 1-3.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 2-15, 3-12, 5-12

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 9=1487/0-5-8, (min. 0-3-2), 15=1393/0-5-8, (min. 0-1-9)
Max Horiz 15=-278 (LC 14)
Max Uplift 9=-157 (LC 16), 15=-110 (LC 16)
Max Grav 9=1987 (LC 29), 15=1858 (LC 29)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-18=-2887/298, 3-18=-2887/298, 3-19=-2095/248, 19-20=-1978/251, 20-21=-1947/254, 4-21=-1886/270, 4-22=-1939/297, 22-23=-1954/280, 5-23=-2068/265, 5-6=-2305/249, 6-24=-2395/231, 7-24=-2506/219, 7-9=-1866/286
BOT CHORD 15-25=-162/1817, 25-26=-162/1817, 14-26=-162/1817, 13-14=-203/2980, 13-27=-203/2980, 12-27=-203/2980, 11-12=-143/2109, 11-28=-143/2109, 10-28=-143/2109
WEBS 2-15=-2222/284, 7-10=-116/1932, 3-14=-764/199, 3-12=-1365/155, 4-12=-41/1207, 5-12=-554/123, 2-14=-89/1618

JOINT STRESS INDEX
1 = 0.85, 2 = 0.78, 3 = 0.77, 4 = 0.63, 5 = 0.54, 6 = 0.42, 7 = 0.77, 9 = 0.77, 10 = 0.58, 11 = 0.81, 12 = 0.51, 13 = 0.61, 14 = 0.77 and 15 = 0.70

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-8-14, Interior (1) 3-8-14 to 19-11-8, Exterior(2R) 19-11-8 to 23-6-10, Interior (1) 23-6-10 to 37-2-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - **TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps= varies (19.2 psf Lum DOL=1.15 Plate DOL=1.15) see load cases; Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - Roof design snow load has been reduced to account for slope.
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 110 lb uplift at joint 15 and 157 lb uplift at joint 9.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-59, 3-4=-59, 4-7=-59, 7-8=-59, 9-15=-20

Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	T28	Roof Special	1	1	Job Reference (optional)

Millard Lumber, Inc., Waverly NE 68462

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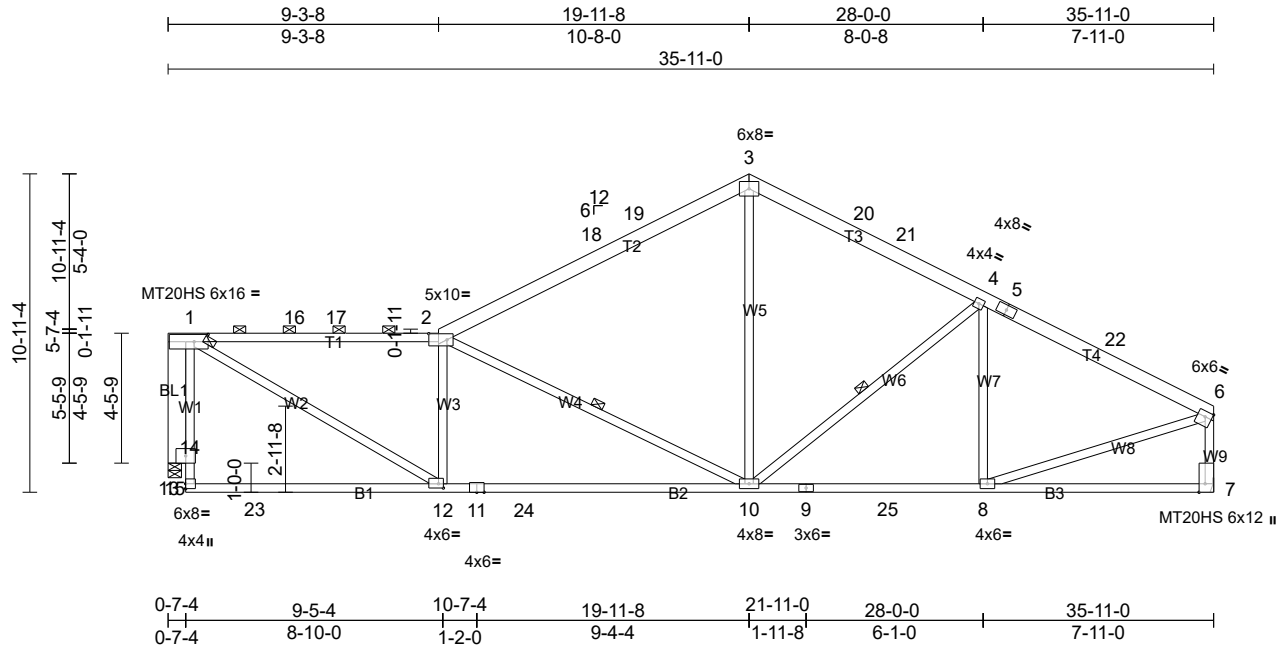


Plate Offsets (X, Y): [1:0-5-12,0-3-0], [2:0-7-8,0-2-8], [6:Edge,0-2-4], [7:0-3-8,Edge], [12:0-2-0,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.98	Vert(LL)	-0.25	10-12	>999	240	MT20	197/144
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.47	10-12	>898	180	MT20HS	148/108
TCDL	10.0	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.07	7	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 209 lb	FT = 20%

LUMBER	
TOP CHORD	2x6 SPF No.2 *Except* T1:2x4 SP 2400F 2.0E, T2:2x6 SP 2400F 2.0E
BOT CHORD	2x4 SP 2400F 2.0E *Except* B3:2x4 SPF No.2
WEBS	2x4 SPF No.2
OTHERS	2x8 SPF No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 4-6-15 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 1-2.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 4-10, 2-10

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS	(lb/size)	7=1395/ Mechanical, (min. 0-1-8), 15=1354/0-5-8, (min. 0-1-8)
	Max Horiz	15=212 (LC 15)
	Max Uplift	7=-101 (LC 16), 15=-112 (LC 16)
	Max Grav	7=1880 (LC 28), 15=1813 (LC 27)

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-16=-2580/262, 16-17=-2580/262, 2-17=-2580/262, 2-18=-1978/245, 18-19=-1814/247, 3-19=-1772/269, 3-20=-1777/270, 20-21=-1788/254, 4-21=-1906/239, 4-5=-1964/227, 5-22=-2063/209, 6-22=-2168/207, 6-7=-1758/207
BOT CHORD	13-23=-78/355, 12-23=-78/355, 11-12=-201/2640, 11-24=-201/2640, 10-24=-201/2640, 9-10=-174/1830, 9-25=-174/1830, 8-25=-174/1830
WEBS	1-12=-238/2692, 2-12=-1115/245, 3-10=-13/1028, 4-10=-436/115, 4-8=-413/145, 6-8=-146/1841, 2-10=-1094/123, 1-15=-1833/175

1 = 0.81, 2 = 0.88, 3 = 0.83, 4 = 0.54, 5 = 0.48, 6 = 0.68, 7 = 0.44, 8 = 0.79, 9 = 0.70, 10 = 0.42, 11 = 0.76, 12 = 0.79, 13 = 0.73, 14 = 0.00 and 14 = 0.07

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-9-0 to 4-4-2, Interior (1) 4-4-2 to 19-11-8, Exterior(2R) 19-11-8 to 23-6-10, Interior (1) 23-6-10 to 35-9-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- **TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps= varies (19.2 psf Lum DOL=1.15 Plate DOL=1.15) see load cases; Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 15 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 101 lb uplift at joint 7 and 112 lb uplift at joint 15.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S)

- Standard
- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-59, 2-3=-59, 3-6=-59, 7-13=-20

Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	T29	Roof Special	1	1	Job Reference (optional)

Millard Lumber, Inc., Waverly NE 68462

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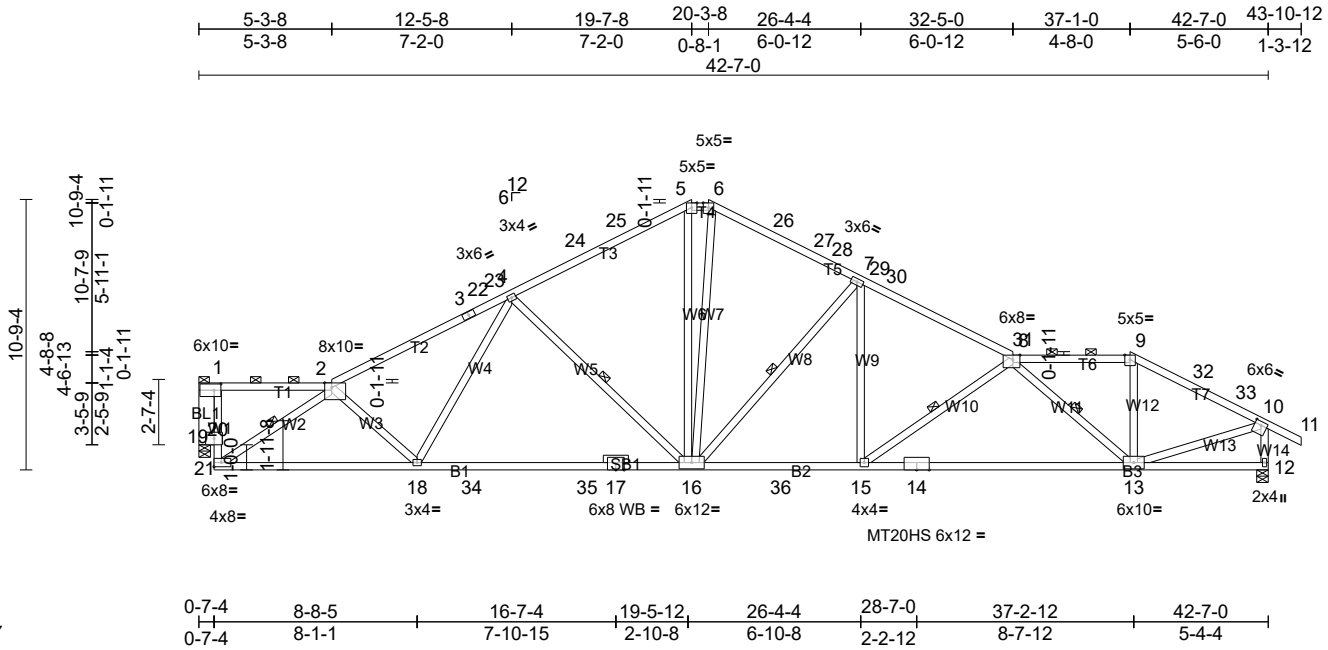


Plate Offsets (X, Y): [1:0-3-4,0-3-0], [2:0-3-6,Edge], [8:0-3-6,Edge], [10:0-3-0,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.49	16-18	>999	240	MT20	197/144
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.82	16-18	>619	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.14	12	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 239 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SPF No.2 *Except* T3,T5,T2:2x4 SP 2400F 2.0E
BOT CHORD 2x4 SP 2400F 2.0E
WEBS 2x4 SPF No.2 *Except* W1:2x4 SP 2400F 2.0E
OTHERS 2x8 SPF No.2 *Except* SB1:2x4 SP 2400F 2.0E

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-9-1 oc purlins, except end verticals, and 2-0-0 oc purlins (3-4-10 max.): 1-2, 5-6, 8-9.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 2-19, 4-16, 7-16, 8-13, 8-15

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 12=1743/0-5-8, (min. 0-2-0), 21=1615/0-5-8, (min. 0-1-8)
Max Horiz 21=225 (LC 15)
Max Uplift 12=175 (LC 16), 21=127 (LC 16)
Max Grav 12=2427 (LC 61), 21=2184 (LC 59)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 19-21=154/2132, 1-21=154/2132, 1-2=443/85, 2-3=3750/347, 3-22=3528/362, 22-23=3519/365, 4-23=3493/366, 4-24=2869/352, 24-25=2728/366, 5-25=2710/379, 5-6=2437/373, 6-26=2634/374, 26-27=2634/363, 27-28=2716/353, 7-28=2753/351, 7-29=3514/403, 29-30=3536/401, 8-30=3711/388, 8-31=2473/290, 9-31=2473/290, 9-32=2775/285, 32-33=2782/274, 10-33=2879/264, 10-12=2384/315

BOT CHORD 18-19=263/3347, 18-34=239/3167, 34-35=239/3167, 17-35=239/3167, 16-17=239/3167, 16-36=222/3221, 15-36=222/3221, 14-15=391/3954, 13-14=391/3954
WEBS 2-19=3495/328, 4-18=0/519, 4-16=-915/173, 5-16=-101/941, 10-13=-171/2487, 7-16=-1354/193, 9-13=0/938, 8-13=-2084/260, 7-15=-16/930, 8-15=-1032/207, 6-16=-148/1052, 1-21=2247/215

JOINT STRESS INDEX
1 = 0.52, 2 = 0.88, 3 = 0.38, 4 = 0.66, 5 = 0.74, 6 = 0.59, 7 = 0.75, 8 = 0.83, 9 = 0.60, 10 = 0.81, 12 = 0.88, 13 = 0.78, 14 = 0.55, 15 = 0.68, 16 = 0.30, 17 = 0.81, 18 = 0.54, 19 = 0.79, 20 = 0.00 and 20 = 0.06

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=43ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-9-0 to 5-3-8, Interior (1) 5-3-8 to 19-7-8, Exterior(2E) 19-7-8 to 20-3-8, Exterior(2R) 20-3-8 to 24-6-10, Interior (1) 24-6-10 to 37-1-0, Exterior(2R) 37-1-0 to 41-4-1, Interior (1) 41-4-1 to 43-10-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - **TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps= varies (19.2 psf Lum DOL=1.15 Plate DOL=1.15) see load cases; Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - Roof design snow load has been reduced to account for slope.
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.

- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearing at joint(s) 21 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 175 lb uplift at joint 12 and 127 lb uplift at joint 21.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-59, 2-5=-59, 5-6=-59, 6-8=-59, 8-9=-59, 9-10=-59, 10-11=-59, 12-19=-20

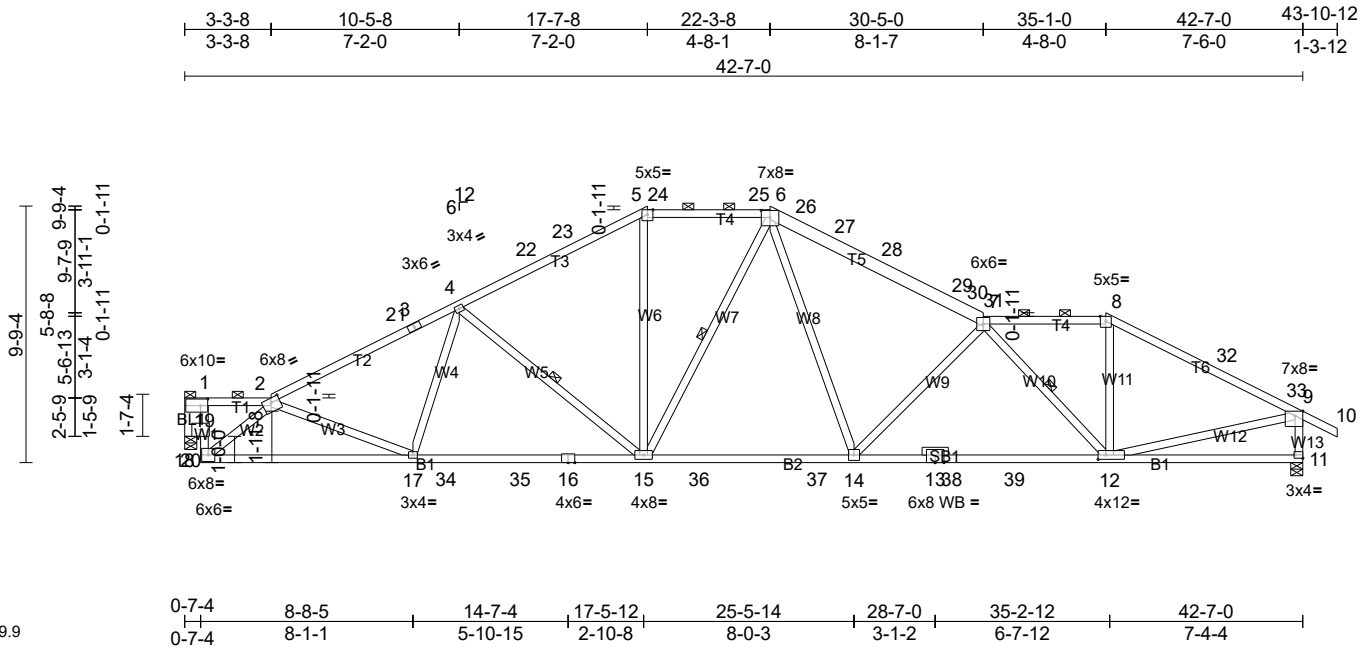
Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	T30	Roof Special	1	1	Job Reference (optional)

Millard Lumber, Inc., Waverly NE 68462

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Scale = 1:79.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.30	12-14	>999	240	MT20	197/144
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.53	12-14	>960	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.11	11	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 235 lb	FT = 20%

LUMBER	
TOP CHORD	2x4 SPF No.2 *Except* T3,T6,T2:2x4 SP 2400F 2.0E, T5:2x6 SP 2400F 2.0E
BOT CHORD	2x4 SP 2400F 2.0E
WEBS	2x4 SPF No.2 *Except* W1:2x4 SP 2400F 2.0E
OTHERS	2x8 SPF No.2 *Except* SB1:2x4 SP 2400F 2.0E

BRACING	
TOP CHORD	Structural wood sheathing directly applied or 3-5-10 oc purlins, except end verticals, and 2-0-0 oc purlins (3-6-0 max.): 1-2, 5-6, 7-8.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 4-15, 6-15, 7-12

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS	(lb/size)	11=1743/0-5-8, (min. 0-2-0), 20=1615/0-5-8, (min. 0-1-8)
	Max Horiz	20=214 (LC 15)
	Max Uplift	11=176 (LC 16), 20=126 (LC 16)
	Max Grav	11=2378 (LC 61), 20=2190 (LC 28)

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	18-20=-203/2189, 1-20=-203/2189, 1-2=-618/104, 2-21=-364/1385, 3-21=-3456/395, 3-4=-3410/404, 4-22=-2881/404, 22-23=-2757/418, 5-23=-2751/431, 5-24=-2474/422, 24-25=-2477/422, 6-25=-2478/421, 6-26=-3178/462, 26-27=-3221/451, 27-28=-3269/446, 28-29=-3273/444, 29-30=-3362/432, 7-30=-3385/427, 7-31=-2605/366, 8-31=-2605/367, 8-32=-2912/352, 32-33=-3016/334, 9-33=-3028/321, 9-11=-2275/355

BOT CHORD	17-18=-310/2997, 17-34=-306/3204, 34-35=-306/3204, 16-35=-306/3204, 15-16=-306/3204, 15-36=-203/2572, 36-37=-203/2572, 14-37=-203/2572, 13-14=-391/3600, 13-38=-391/3600, 38-39=-391/3600, 12-39=-391/3600
WEBS	2-18=-3131/368, 2-17=0/332, 4-17=0/312, 4-15=-862/148, 5-15=-64/945, 6-15=-409/192, 6-14=-78/1234, 7-14=-1083/248, 7-12=-1562/230, 8-12=-13/921, 9-12=-185/2455, 1-20=-2378/239

JOINT STRESS INDEX
1 = 0.55, 2 = 0.96, 3 = 0.38, 4 = 0.66, 5 = 0.59, 6 = 0.59, 7 = 0.65, 8 = 0.64, 9 = 0.85, 11 = 0.82, 12 = 0.80, 13 = 0.92, 14 = 0.65, 15 = 0.44, 16 = 0.92, 17 = 0.57, 18 = 0.83, 19 = 0.00 and 19 = 0.06

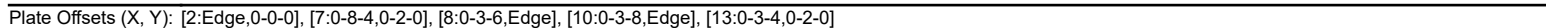
- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=43ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-9-0 to 3-3-8, Interior (1) 3-3-8 to 17-7-8, Exterior(2R) 17-7-8 to 21-10-9, Interior (1) 21-10-9 to 22-3-8, Exterior(2R) 22-3-8 to 26-6-10, Interior (1) 26-6-10 to 35-1-0, Exterior (2R) 35-1-0 to 39-4-1, Interior (1) 39-4-1 to 43-10-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - **TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps= varies (19.2 psf Lum DOL=1.15 Plate DOL=1.15) see load cases; Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - Roof design snow load has been reduced to account for slope.
 - Unbalanced snow loads have been considered for this design.

- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearing at joint(s) 20 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 176 lb uplift at joint 11 and 126 lb uplift at joint 20.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-59, 2-5=-59, 5-6=-59, 6-7=-59, 7-8=-59, 8-9=-59, 9-10=-59, 11-18=-20

Millard Lumber, Inc., Waverly NE 68462 Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Mon Jun 30 14:50:23 Page: ID:lgZRpCfknOcrG7QIFKMQBz14ex-JHKFnTcTDEk3 Q2zAVfNTkPVMuCuG643uOll0z8z13I



LUMBER		WEBS	4-18=0/268, 4-16=-781/128, 6-16=0/746, 6-15=-203/413, 7-15=-13/957, 8-15=-1056/230, 10-13=-189/2489, 9-13=-10/896, 8-13=-1555/246	10) * 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.
TOP CHORD	2x6 SPF No.2 *Except* T4,T6:2x4 SP 2400F 2.0E, T5:2x4 SPF No.2, T1:2x6 SP 2400F 2.0E			11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 173 lb uplift at joint 2 and 177 lb uplift at joint 12.
BOT CHORD	2x4 SP 2400F 2.0E			12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
WEBS	2x4 SPF No.2			13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
OTHERS	2x4 SP 2400F 2.0E			
SLIDER	Left 2x8 SPF No.2 -- 3-5-0			
BRACING		JOINT STRESS INDEX	2 = 0.90, 2 = 0.40, 2 = 0.40, 3 = 0.00, 4 = 0.54, 5 = 0.31, 6 = 0.72, 7 = 0.87, 8 = 0.80, 9 = 0.61, 10 = 0.74, 12 = 0.84, 13 = 0.76, 14 = 0.92, 15 = 0.42, 16 = 0.71, 17 = 0.96 and 18 = 0.51	
TOP CHORD	Structural wood sheathing directly applied or 3-4-15 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 6-7, 8-9,	NOTES		
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	1) Unbalanced roof live loads have been considered for this design.		
WEBS	1 Row at midpt 4-16, 6-15, 8-15, 8-13	2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=43ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-3-12 to 2-11-6, Interior (1) 2-11-6 to 15-7-8, Exterior(2R) 15-7-8 to 19-10-9, Interior (1) 19-10-9 to 24-3-8, Exterior(2R) 24-3-8 to 28-6-10, Interior (1) 28-6-10 to 35-5-8, Exterior(2R) 35-5-8 to 39-8-10, Interior (1) 39-8-10 to 43-4-12, Exterior(2R) 43-4-12 to 47-1-10, Interior (1) 47-1-10 to 51-1-10, Exterior(2R) 51-1-10 to 55-1-10, Interior (1) 55-1-10 to 59-1-10, Exterior(2R) 59-1-10 to 63-1-10, Interior (1) 63-1-10 to 67-1-10, Exterior(2R) 67-1-10 to 71-1-10, Interior (1) 71-1-10 to 75-1-10, Exterior(2R) 75-1-10 to 79-1-10, Interior (1) 79-1-10 to 83-1-10, Exterior(2R) 83-1-10 to 87-1-10, Interior (1) 87-1-10 to 91-1-10, Exterior(2R) 91-1-10 to 95-1-10, Interior (1) 95-1-10 to 99-1-10, Exterior(2R) 99-1-10 to 103-1-10, Interior (1) 103-1-10 to 107-1-10, Exterior(2R) 107-1-10 to 111-1-10, Interior (1) 111-1-10 to 115-1-10, Exterior(2R) 115-1-10 to 119-1-10, Interior (1) 119-1-10 to 123-1-10, Exterior(2R) 123-1-10 to 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1467-1-10, Exterior(2R) 1467-1-10 to 1471-1-10, Interior (1) 1471-1-10 to 1475-1-10, Exterior(2R) 1475-1-10 to 1479-1-10, Interior (1) 1479-1-10 to 1483-1-10, Exterior(2R) 1483-1-10 to 1487-1-10, Interior (1) 1487-1-10 to 1491-1-10, Exterior(2R) 1491-1-10 to 1495-1-10, Interior (1) 1495-1-10 to 1499-1-10, Exterior(2R) 1499-1-10 to 1503-1-10, Interior (1) 1503-1-10 to 1507-1-10, Exterior(2R) 1507-1-10 to 1511-1-10, Interior (1) 1511-1-10 to 1515-1-10, Exterior(2R) 1515-1-10 to 1519-1-10, Interior (1) 1519-1-10 to 1523-1-10, Exterior(2R) 1523-1-10 to 1527-1-10, Interior (1) 1527-1-10 to 1531-1-10, Exterior(2R) 1531-1-10 to 1535-1-10, Interior (1) 1535-1-10 to 1539-1-10, Exterior(2R) 1539-1-10 to 1543-1-10, Interior (1) 1543-1-10 to 1547-1-10, Exterior(2R) 1547-1-10 to 1551-1-10, Interior (1) 1551-1-10 to 1555-1-10, Exterior(2R) 1555-1-10 to 1559-1-10, Interior (1) 1559-1-10 to 1563-1-10, Exterior(2R) 1563-1-10 to 1567-1-10, Interior (1) 1567-1-10 to 1571-1-10, Exterior(2R) 1571-1-10 to 1575-1-10, Interior (1) 1575-1-10 to 1579-1-10, Exterior(2R) 1579-1-10 to 1583-1-10, Interior (1) 1583-1-10 to 1587-1-10, Exterior(2R) 1587-1-10 to 1591-1-10, Interior (1) 1591-1-10 to 1595-1-10, Exterior(2R) 1595-1-10 to 1599-1-10, Interior (1) 1599-1-10 to 1603-1-10, Exterior(2R) 1603-1-10 to 1607-1-10, Interior (1) 1607-1-10 to 1611-1-10, Exterior(2R) 1611-1-10 to 1615-1-10, Interior (1) 1615-1-10 to 1619-1-10, Exterior(2R) 1619-1-10 to 1623-1-10, Interior (1) 1623-1-10 to 1627-1-10, Exterior(2R) 1627-1-10 to 1631-1-10, Interior (1) 1631-1-10 to 1635-1-10, Exterior(2R) 1635-1-10 to 1639-1-10, Interior (1) 1639-1-10 to 1643-1-10, Exterior(2R) 1643-1-10 to 1647-1-10, Interior (1) 1647-1-10 to 1651-1-10, Exterior(2R) 1651-1-10 to 1655-1-10, Interior (1) 1655-1-10 to 1659-1-10, Exterior(2R) 1659-1-10 to 1663-1-10, Interior (1) 1663-1-10 to 1667-1-10, Exterior(2R) 1667-1-10 to 1671-1-10, Interior (1) 1671-1-10 to 1675-1-10, Exterior(2R) 1675-1-10 to 1679-1-10, Interior (1) 1679-1-10 to 1683-1-10, Exterior(2R) 1683-1-10 to 1687-1-10, Interior (1) 1687-1-10 to 1691-1-10, Exterior(2R) 1691-1-10 to 1695-1-10, Interior (1) 1695-1-10 to 1699-1-10, Exterior(2R) 1699-1-10 to 1703-1-10, Interior (1) 1703-1-10 to 1707-1-10, Exterior(2R) 1707-1-10 to 1711-1-10, Interior (1) 1711-1-10 to 1715-1-10, Exterior(2R) 1715-1-10 to 1719-1-10, Interior (1) 1719-1-10 to 1723-1-10, Exterior(2R) 1723-1-10 to 1727-1-10, Interior (1) 1727-1-10 to 1731-1-10, Exterior(2R) 1731-1-10 to 1735-1-10, Interior (1) 1735-1-10 to 1739-1-10, Exterior(2R) 1739-1-10 to 1743-1-10, Interior (1) 1743-1-10 to 1747-1-10, Exterior(2R) 1747-1-10 to 1751-1-10, Interior (1) 1751-1-10 to 1755-1-10, Exterior(2R) 1755-1-10 to 1759-1-10, Interior (1) 1759-1-10 to 1763-1-10, Exterior(2R) 1763-1-10 to 1767-1-10, Interior (1) 1767-1-10 to 1771-1-10, Exterior(2R) 1771-1-10 to 1775-1-10, Interior (1) 1775-1-10 to 1779-1-10, Exterior(2R) 1779-1-10 to 1783-1-10, Interior (1) 1783-1-10 to 1787-1-10, Exterior(2R) 1787-1-10 to 1791-1-1		

REACTIONS	(lb/size)	2=1742/0-5-8, (min. 0-1-15), 12=1751/0-5-8, (min. 0-1-15)
	Max Horiz	2=211 (LC 15)
	Max Uplift	2=-173 (LC 16), 12=-177 (LC 16)
FORCES	Max Grav	2=2347 (LC 28), 12=2346 (LC 29)
	(lb) - Max. Comp./Max. Ten. - All forces	250
	(lb) or less except when shown.	
TOP CHORD	2-3=-1664/108, 3-23=-3725/396, 23-24=-3714/413, 4-24=-3592/419, 4-25=-3142/391, 5-25=-3120/394, 5-26=-3043/405, 6-26=-3036/423, 6-27=-2835/443, 27-28=-2832/443, 28-29=-2832/443, 7-29=-2830/444, 7-30=-3167/445, 8-30=-3254/427, 8-31=-2590/356, 9-31=-2590/356, 9-32=-2897/344, 10-32=-3007/326, 10-12=-2264/350	
	BOT CHORD	2-18=-346/3350, 17-18=-346/3350, 16-17=-346/3350, 16-33=-237/2799, 15-33=-237/2799, 14-15=-403/3603, 14-34=-403/3603, 34-35=-403/3603, 13-35=-403/3603
		(2R) 35-5-8 to 39-8-10, interior (1) 39-8-10 to 43-10-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
	3)	**TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps= varies (19.2 psf Lum DOL=1.15 Plate DOL=1.15) see load cases; Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
	4)	Roof design snow load has been reduced to account for slope.
	5)	Unbalanced snow loads have been considered for this design.
	6)	This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.
	7)	Provide adequate drainage to prevent water ponding.
	8)	All plates are MT20 plates unless otherwise indicated.
	9)	This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	T32	Roof Special	1	1	Job Reference (optional)

Millard Lumber, Inc., Waverly NE 68462 Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Mon Jun 30 14:50:23 Page: 1
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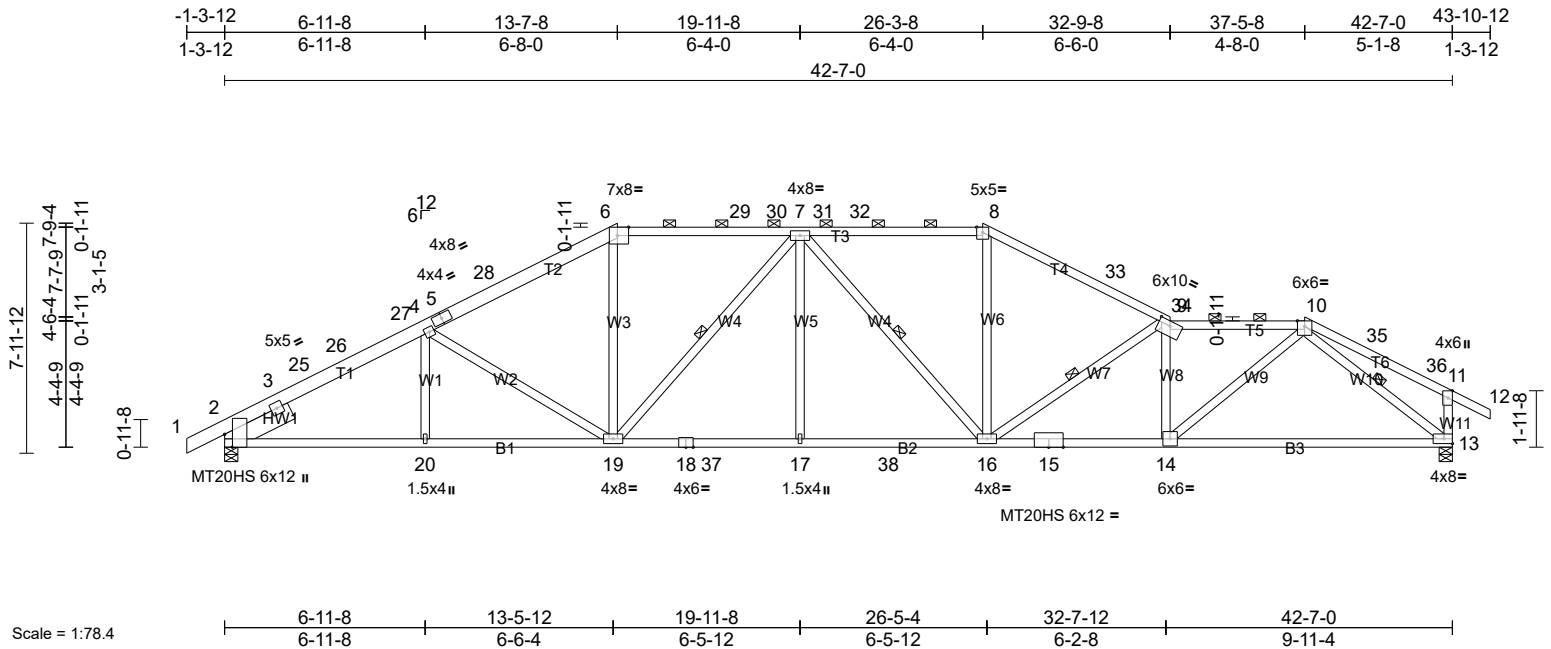


Plate Offsets (X, Y): [2:0-5-6,Edge], [6:0-4-10,Edge], [9:0-5-0,0-2-0], [11:0-3-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.94	Vert(LL)	-0.29	16-17	>999	240	MT20	197/144
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.50	13-14	>999	180	MT20HS	148/108
TCDL	10.0	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.15	13	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 225 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SPF No.2 *Except* T2,T1:2x6 SPF No.2, T4:2x4 SP 2400F 2.0E
BOT CHORD 2x4 SP 2400F 2.0E
WEBS 2x4 SPF No.2
SLIDER Left 2x8 SPF No.2 -- 2-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-4-2 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 6-8, 9-10.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 7-16, 9-16, 10-13, 7-19

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 2=1742/0-5-8, (min. 0-1-15), 13=1751/0-5-8, (min. 0-1-15)
Max Horiz 2=190 (LC 15)
Max Uplift 2=-173 (LC 16), 13=-177 (LC 16)
Max Grav 2=2341 (LC 28), 13=2328 (LC 29)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1733/117, 3-25=-3726/384, 25-26=-3695/389, 26-27=-3657/404, 4-27=-3592/406, 4-5=-3259/386, 5-28=-3256/396, 6-28=-3187/414, 6-29=-2853/416, 29-30=-2853/416, 7-30=-2853/416, 7-31=-3043/447, 31-32=-3043/447, 8-32=-3041/448, 8-33=-3408/456, 9-33=-3500/438, 9-34=-4117/493, 10-34=-4117/493, 11-36=-335/109, 11-13=-500/159
BOT CHORD 2-20=-343/3316, 19-20=-343/3316, 18-19=-290/3312, 18-37=-290/3312, 17-37=-290/3312, 17-38=-290/3312, 16-38=-290/3312, 15-16=-406/4023, 14-15=-406/4023, 13-14=-265/2276

WEBS 7-16=-574/30, 8-16=-49/1141, 9-16=-1240/175, 9-14=-1280/241, 10-14=-197/2375, 10-13=-2741/345, 6-19=-34/966, 7-19=-827/78, 4-19=-619/113, 7-17=0/369

JOINT STRESS INDEX
2 = 0.87, 2 = 0.92, 3 = 0.00, 4 = 0.54, 5 = 0.38, 6 = 0.52, 7 = 0.42, 8 = 0.74, 9 = 0.92, 10 = 0.96, 11 = 0.75, 13 = 0.92, 14 = 0.70, 15 = 0.56, 16 = 0.48, 17 = 0.51, 18 = 0.95, 19 = 0.42 and 20 = 0.51

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=43ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-3-12 to 2-11-6, Interior (1) 2-11-6 to 13-7-8, Exterior(2R) 13-7-8 to 17-10-9, Interior (1) 17-10-9 to 26-3-8, Exterior(2R) 26-3-8 to 30-6-10, Interior (1) 30-6-10 to 37-5-8, Exterior (2R) 37-5-8 to 41-8-10, Interior (1) 41-8-10 to 43-10-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - **TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps= varies (19.2 psf Lum DOL=1.15 Plate DOL=1.15) see load cases; Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - Roof design snow load has been reduced to account for slope.
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 10) * 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.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 173 lb uplift at joint 2 and 177 lb uplift at joint 13.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-6=-59, 6-8=-59, 8-9=-59, 9-10=-59, 10-11=-59, 11-12=-59, 13-21=-20

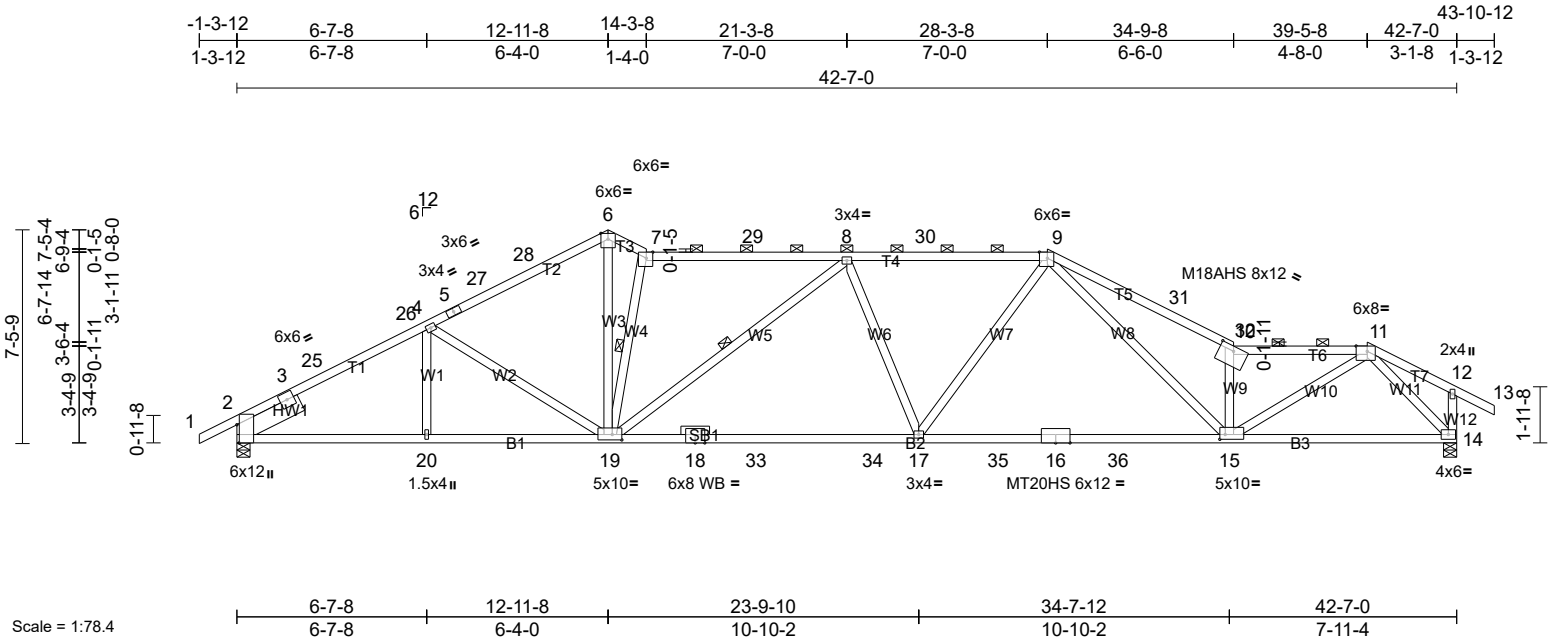
Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	T33	Roof Special	1	1	Job Reference (optional)

Millard Lumber, Inc., Waverly NE 68462

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Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	T34	Roof Special	1	1	Job Reference (optional)

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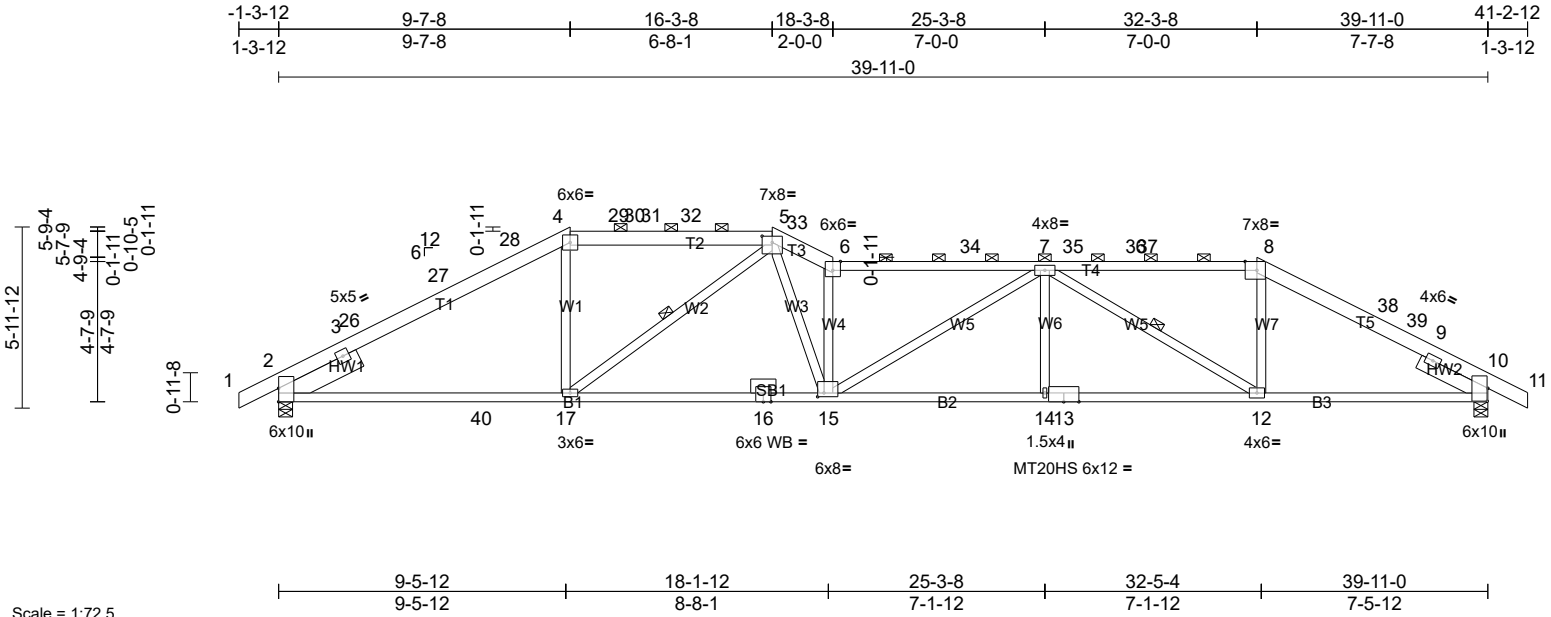


Plate Offsets (X, Y): [2:Edge,0-0-0], [5:0-4-0,0-2-8], [6:0-3-0,Edge], [8:0-4-10,Edge], [10:0-5-2,0-0-5], [15:0-2-8,0-1-8]												
Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.94	Vert(LL)	-0.40	15-17	>999	240	MT20	197/144
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.66	15-17	>722	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.18	10	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS								
BCDL	10.0											
										Weight: 203 lb FT = 20%		

LUMBER
TOP CHORD 2x6 SPF No.2 *Except* T4:2x4 SP 2400F 2.0E
BOT CHORD 2x4 SP 2400F 2.0E
WEBS 2x4 SPF No.2
OTHERS 2x6 SPF No.2
SLIDER Left 2x8 SPF No.2 -- 2-11-0, Right 2x6 SPF No.2 -- 2-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-0-7 oc purlins, except
2-0-0 oc purlins (2-11-10 max.): 4-5, 6-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-17, 7-12

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 2=1644/0-5-8, (min. 0-1-13), 10=1644/0-5-8, (min. 0-1-13)
Max Horiz 2=114 (LC 15)
Max Uplift 2=-165 (LC 16), 10=-165 (LC 16)
Max Grav 2=2181 (LC 28), 10=2156 (LC 29)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1571/19, 3-26=-3356/368, 26-27=-3343/383, 27-28=-3237/384, 4-28=-3191/400, 4-29=-2893/418, 29-30=-2893/418, 30-31=-2893/418, 31-32=-2893/418, 5-32=-2893/418, 5-33=-5051/627, 6-33=-5097/625, 6-34=-4671/564, 7-34=-4671/564, 7-35=-2901/374, 35-36=-2901/374, 36-37=-2901/374, 8-37=-2901/374, 8-38=-3337/383, 38-39=-3365/366, 9-39=-3388/359, 9-10=-874/23
BOT CHORD 2-40=-277/2961, 17-40=-235/2961, 16-17=-321/3747, 15-16=-321/3747, 14-15=-385/4507, 13-14=-385/4507, 12-13=-385/4507, 10-12=-219/2904

WEBS 4-17=0/1105, 5-17=-1320/114, 8-12=-15/1218, 7-12=-2019/194, 6-15=-2417/333, 5-15=-232/2736, 7-15=-28/489, 7-14=0/287

JOINT STRESS INDEX
2 = 0.93, 2 = 0.79, 3 = 0.00, 4 = 0.68, 5 = 0.88, 6 = 0.73, 7 = 0.69, 8 = 0.65, 9 = 0.00, 10 = 0.94, 10 = 0.75, 12 = 0.63, 13 = 0.63, 14 = 0.51, 15 = 0.78, 16 = 0.95 and 17 = 0.79

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-3-12 to 2-8-2, Interior (1) 2-8-2 to 9-7-8, Exterior(2R) 9-7-8 to 13-7-6, Interior (1) 13-7-6 to 16-3-8, Exterior(2E) 16-3-8 to 18-3-8, Interior (1) 18-3-8 to 32-3-8, Exterior(2R) 32-3-8 to 36-3-7, Interior (1) 36-3-7 to 41-2-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) **TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps= varies (19.2 psf Lum DOL=1.15 Plate DOL=1.15) see load cases; Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
4) Roof design snow load has been reduced to account for slope.
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.
7) Provide adequate drainage to prevent water ponding.
8) All plates are MT20 plates unless otherwise indicated.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * 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.

11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 165 lb uplift at joint 2 and 165 lb uplift at joint 10.
12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-4=-59, 4-5=-59, 5-6=-59, 6-8=-59, 8-11=-59, 18-22=-20

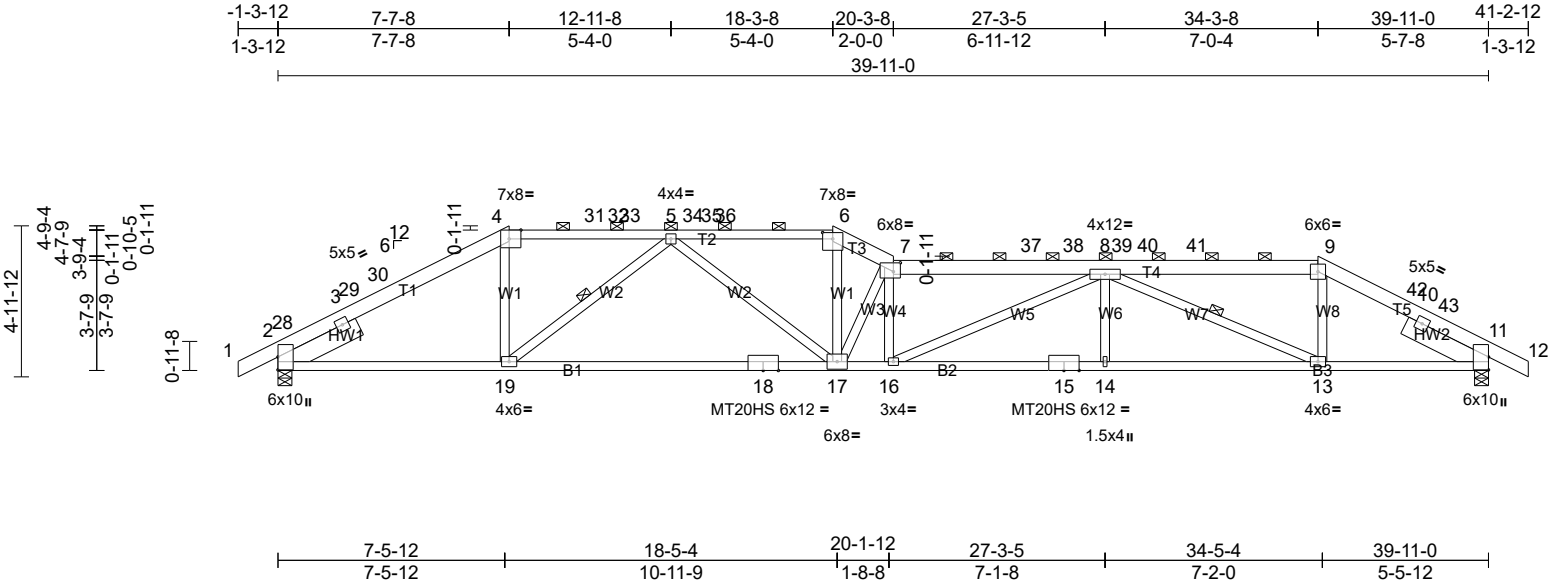
Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	T35	Roof Special	1	1	Job Reference (optional)

Millard Lumber, Inc., Waverly NE 68462

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Scale = 1:72.5

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.90	Vert(LL)	-0.53	14-16	>903	240	MT20	197/144
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.91	17-19	>529	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.19	11	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS								
BCDL	10.0											
Weight: 207 lb FT = 20%												

LUMBER
TOP CHORD 2x6 SPF No.2 *Except* T2:2x4 SP 2400F 2.0E
BOT CHORD 2x4 SP 2400F 2.0E
WEBS 2x4 SPF No.2
SLIDER Left 2x8 SPF No.2 -- 2-11-0, Right 2x8 SPF No.2 -- 3-0-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except
2-0-0 oc purlins (2-2-0 max.): 4-6, 7-9.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 8-13, 5-19

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 2=1644/0-5-8, (min. 0-1-12), 11=1644/0-5-8, (min. 0-1-12)
Max Horiz 2=94 (LC 15)
Max Uplift 2=-165 (LC 16), 11=-165 (LC 16)
Max Grav 2=2101 (LC 2), 11=2101 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-28=-1326/103, 2-28=-1293/107, 2-3=-957/124, 3-29=-3321/349, 29-30=-3306/353, 4-30=-3272/370, 4-31=-2818/377, 31-32=-2818/377, 32-33=-2818/377, 5-33=-2818/377, 5-34=-4859/545, 34-35=-4859/545, 35-36=-4859/545, 6-36=-4859/545, 6-7=-5553/602, 7-37=-6347/690, 37-38=-6348/690, 8-38=-6349/690, 8-39=-2931/359, 39-40=-2931/359, 40-41=-2929/360, 9-41=-2928/360, 9-42=-3424/383, 10-42=-3429/369, 10-43=-949/142, 11-43=-994/141
BOT CHORD 2-19=-223/2855, 18-19=-386/4225, 17-18=-386/4225, 16-17=-564/6333, 15-16=-496/5798, 14-15=-496/5798, 13-14=-496/5798, 11-13=-237/2987

WEBS 7-16=-379/32, 4-19=-21/1248, 8-16=-77/836, 9-13=-41/1336, 8-13=-3151/286, 8-14=0/320, 5-19=-1806/208, 6-17=-171/2260, 7-17=-2853/344, 5-17=-5/830

JOINT STRESS INDEX
2 = 0.89, 2 = 0.85, 3 = 0.00, 4 = 0.68, 5 = 0.85, 6 = 0.97, 7 = 0.84, 8 = 0.65, 9 = 0.60, 10 = 0.00, 11 = 0.93, 11 = 0.89, 13 = 0.78, 14 = 0.51, 15 = 0.81, 16 = 0.72, 17 = 0.65, 18 = 0.59 and 19 = 0.65

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-3-12 to 2-8-2, Interior (1) 2-8-2 to 7-7-8, Exterior(2R) 7-7-8 to 11-7-6, Interior (1) 11-7-6 to 18-3-8, Exterior(2E) 18-3-8 to 20-3-8, Interior (1) 20-3-8 to 34-3-8, Exterior(2R) 34-3-8 to 38-3-7, Interior (1) 38-3-7 to 41-2-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - **TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps= varies (19.2 psf Lum DOL=1.15 Plate DOL=1.15) see load cases; Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - Roof design snow load has been reduced to account for slope.
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 165 lb uplift at joint 2 and 165 lb uplift at joint 11.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-4=-59, 4-6=-59, 6-7=-59, 7-9=-59, 9-12=-59, 20-24=-20

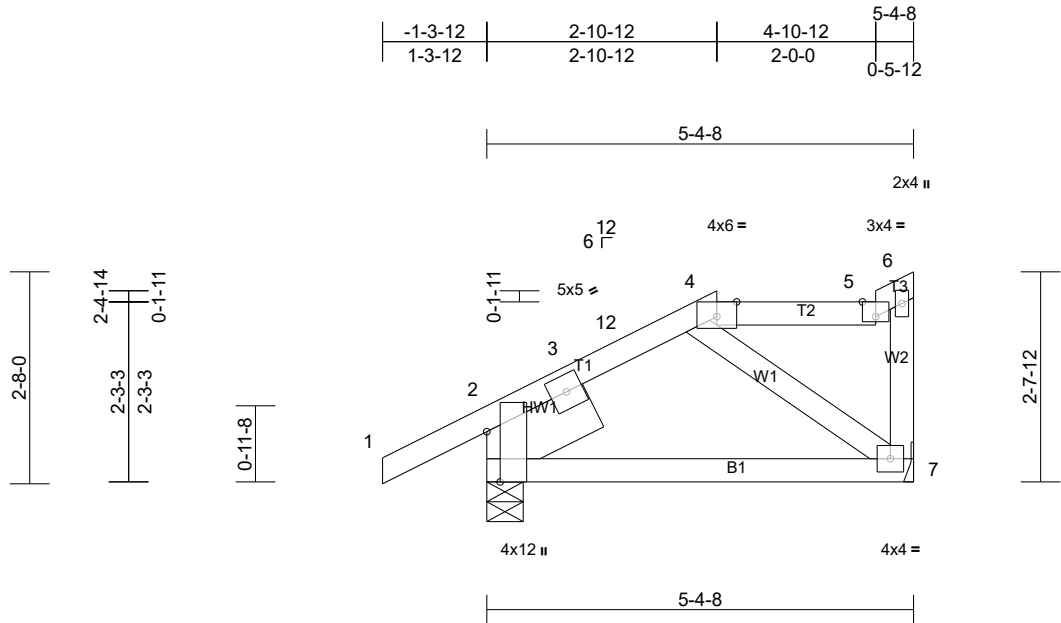
Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	T36	Roof Special	1	1	Job Reference (optional)

Millard Lumber, Inc., Waverly NE 68462

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Scale = 1:20.5

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	-0.01	7-10	>999	240	MT20	197/144
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.02	7-10	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 24 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2
SLIDER	Left 2x8 SPF No.2 -- 1-6-0

BRACING

TOP CHORD	Structural wood sheathing directly applied or 5-4-8 oc purlins, except end verticals, and 2-0-0 oc purlins: 4-5.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size)	2=292/0-5-8, (min. 0-1-8), 7=196/Mechanical, (min. 0-1-8)
Max Horiz	2=82 (LC 15)
Max Uplift	2=-61 (LC 16), 7=-27 (LC 13)
Max Grav	2=423 (LC 39), 7=248 (LC 2)

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

JOINT STRESS INDEX

2 = 0.51, 2 = 0.06, 3 = 0.00, 4 = 0.16, 5 = 0.11, 6 = 0.54 and 7 = 0.68

NOTES

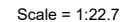
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-3-12 to 1-8-4, Interior (1) 1-8-4 to 2-10-12, Exterior(2E) 2-10-12 to 4-10-12, Interior (1) 4-10-12 to 5-2-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) **TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps= varies (19.2 psf Lum DOL=1.15 Plate DOL=1.15) see load cases; Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
- 4) Roof design snow load has been reduced to account for slope.
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.
- 7) Provide adequate drainage to prevent water ponding.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Refer to girder(s) for truss to truss connections.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 61 lb uplift at joint 2 and 27 lb uplift at joint 7.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-4=-59, 4-5=-59, 5-6=-59, 7-8=-20

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1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-4=-59, 4-5=-59, 6-7=-20

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-4=-59, 4-5=-59, 6-7=-20

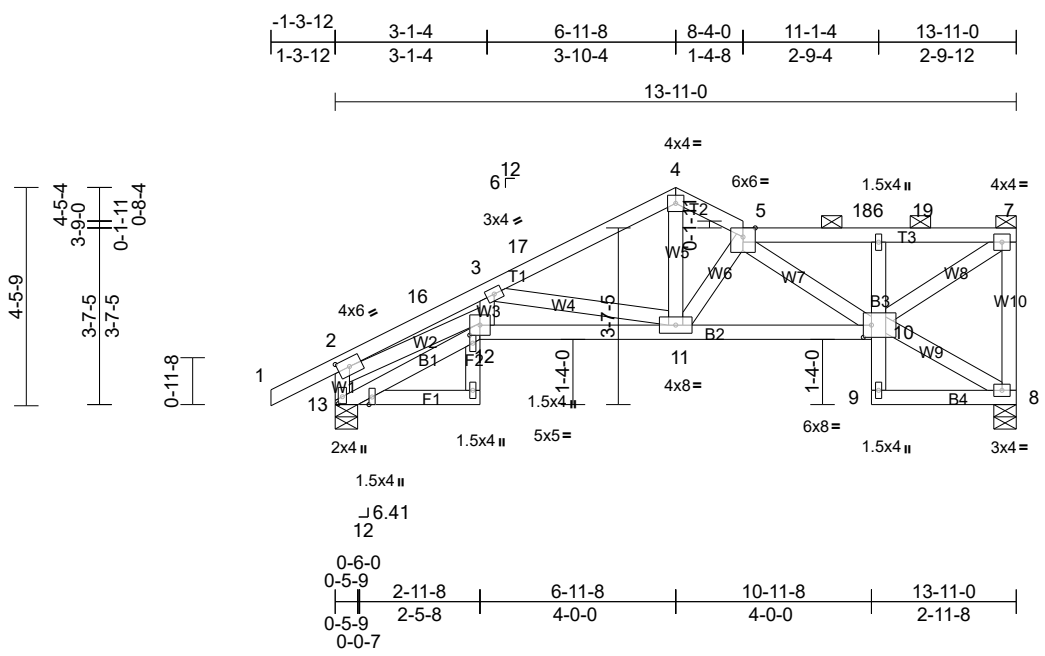
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Uniform Loads (lb/ft)
Vert: 1-2=-59, 2-4=-58, 4-5=-59, 5-6=-59, 6-8=-59,
13-14=-20, 11-13=-20, 9-10=-20

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	T39	Roof Special	1	1	Job Reference (optional)



Scale = 1:39.9									
Plate Offsets (X, Y): [2:0-2-15,0-2-0], [10:0-2-0,0-3-0], [12:0-1-15,0-0-12], [13:0-1-11,0-1-0]									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in (loc)	I/defl	L/d
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.07 11-12	>999	240
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.13 11-12	>999	180
TCDL	10.0	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.11 8	n/a	n/a
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS					
BCDL	10.0								
Weight: 71 lb									FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-11-13 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 8=530/0-5-8, (min. 0-1-8), 13=625/0-5-8, (min. 0-1-8)
Max Horiz 13=141 (LC 15)
Max Uplift 8=-45 (LC 13), 13=-89 (LC 16)
Max Grav 8=675 (LC 2), 13=804 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-13=-782/292, 2-16=-2044/747, 3-16=-1977/759, 3-17=-994/269, 4-17=-946/282, 4-5=-988/314, 5-18=-761/207, 6-18=-764/206, 6-19=-738/203, 7-19=-738/203, 7-8=-638/216
BOT CHORD 12-13=-280/241, 11-12=-810/1697, 10-11=-404/1071, 6-10=-326/119
WEBS 2-12=-611/1747, 3-12=-207/433, 7-10=-301/910, 4-11=-144/624, 5-11=-416/115, 5-10=-385/147, 3-11=-886/478

JOINT STRESS INDEX
2 = 0.60, 3 = 0.53, 4 = 0.69, 5 = 0.30, 6 = 0.41, 7 = 0.58, 8 = 0.38, 9 = 0.26, 10 = 0.76, 11 = 0.63, 12 = 0.80, 12 = -nan(ind), 13 = 0.71, 14 = -nan(ind) and 15 = -nan(ind)

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-3-12 to 1-8-4, Interior (1) 1-8-4 to 6-11-8, Exterior(2E) 6-11-8 to 8-4-0, Interior (1) 8-4-0 to 13-9-4 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) **TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps= varies (19.2 psf Lum DOL=1.15 Plate DOL=1.15) see load cases; Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.

4) Roof design snow load has been reduced to account for slope.

5) Unbalanced snow loads have been considered for this design.

6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.

7) Provide adequate drainage to prevent water ponding.

8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

10) Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 89 lb uplift at joint 13 and 45 lb uplift at joint 8.

12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Uniform Loads (lb/ft)
Vert: 1-2=-59, 2-4=-59, 4-5=-59, 5-7=-59, 12-13=-20, 10-12=-20, 8-9=-20

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

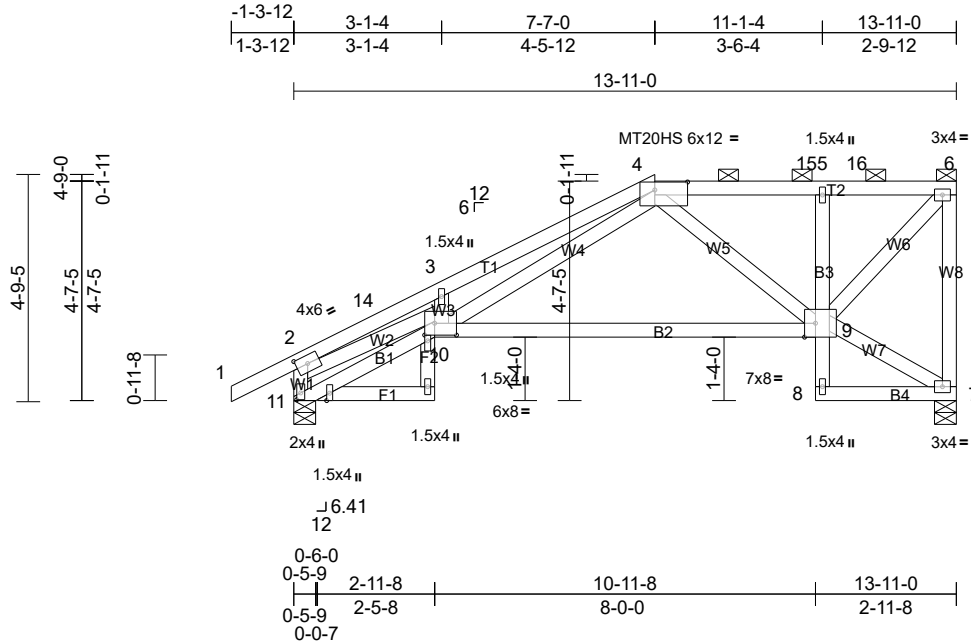
Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	T40	Half Hip	1	1	Job Reference (optional)

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Scale = 1:41

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

Loading		(psf)	Spacing	2-0-0	CSI	DEFL					in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)		30.0	Plate Grip DOL	1.15	TC	0.58	Vert(LL)	-0.17	9-10	>958	240			MT20	197/144	
Snow (Ps/Pg)		19.3/25.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.37	9-10	>443	180			MT20HS	148/108	
TCDL		10.0	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.12	7	n/a	n/a					
BCLL		0.0*	Code	IRC2018/TPI2014	Matrix-MS											
BCDL		10.0														
														Weight: 71 lb	FT = 20%	

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-1-2 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 7=530/0-5-8, (min. 0-1-8), 11=625/0-5-8, (min. 0-1-8)
Max Horiz 11=162 (LC 13)
Max Uplift 7=-64 (LC 13), 11=-87 (LC 16)
Max Grav 7=675 (LC 2), 11=869 (LC 36)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-11=-856/239, 2-14=-2155/658, 3-14=-2076/670, 3-4=-2194/777, 4-15=-538/122, 5-15=-538/121, 5-16=-514/122, 6-16=-514/122, 6-7=-661/204
BOT CHORD 10-11=-326/295, 9-10=-342/738, 5-9=-353/102
WEBS 2-10=-541/1855, 3-10=-326/153, 4-10=-601/1511, 4-9=-327/188, 6-9=-229/764

JOINT STRESS INDEX

2 = 0.64, 3 = 0.23, 4 = 0.95, 5 = 0.51, 6 = 0.71, 7 = 0.45, 8 = 0.13, 9 = 0.64, 10 = 0.77, 10 = -nan(ind), 11 = 0.62, 12 = -nan(ind) and 13 = -nan(ind)

NOTES

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-3-12 to 1-8-4, Interior (1) 1-8-4 to 7-7-0, Exterior(2R) 7-7-0 to 11-9-15, Interior (1) 11-9-15 to 13-9-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- **TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps= varies (19.2 psf Lum DOL=1.15 Plate DOL=1.15) see load cases; Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 87 lb uplift at joint 11 and 64 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-59, 2-4=-59, 4-6=-59, 10-11=-20, 9-10=-20, 7-8=-20

Job	Truss	Truss Type	Qty	Ply	Schachne Res
250237-R	T41	Half Hip	1	1	Job Reference (optional)

Millard Lumber, Inc., Waverly NE 68462

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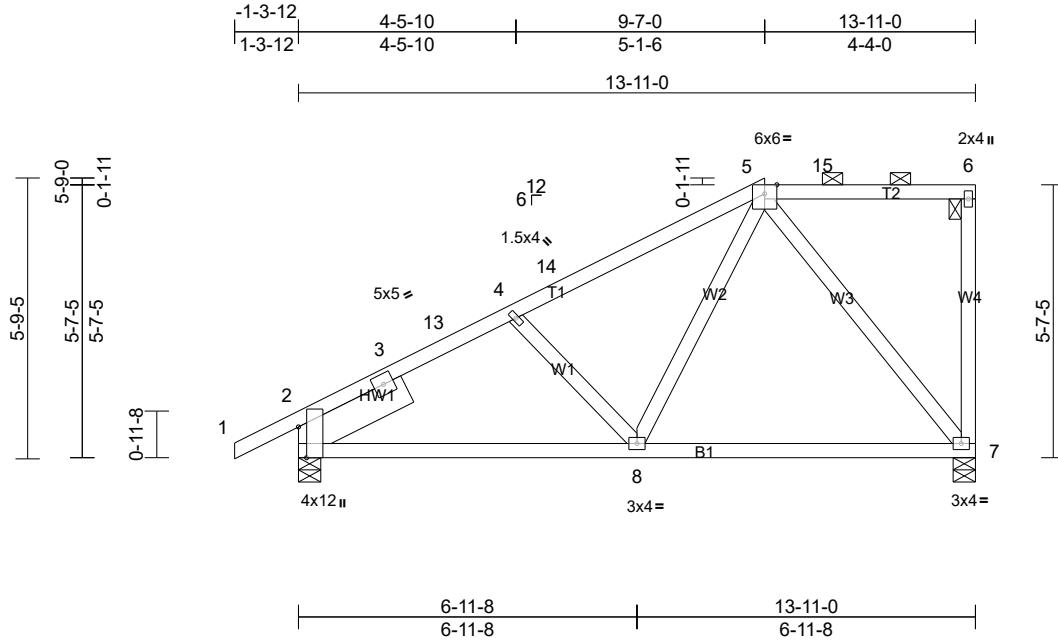


Plate Offsets (X, Y): [2:0-7-9,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.06	7-8	>999	240	MT20	197/144
Snow (Ps/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.12	7-8	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.01	7	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 65 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2
SLIDER	Left 2x8 SPF No.2 -- 2-6-0

BRACING

TOP CHORD	Structural wood sheathing directly applied or 5-8-1 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS

(lb/size)	2=621/0-5-8, (min. 0-1-8), 7=537/0-5-8, (min. 0-1-8)
Max Horiz	2=190 (LC 15)
Max Uplift	2=-82 (LC 16), 7=-61 (LC 13)
Max Grav	2=913 (LC 36), 7=684 (LC 2)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-317/0, 3-13=-969/154, 4-13=-877/165, 4-14=-754/132, 5-14=-635/152
BOT CHORD	2-8=-331/828, 7-8=-202/379
WEBS	5-8=-32/457, 5-7=-595/227, 4-8=-380/170

JOINT STRESS INDEX

2 = 0.55, 2 = 0.29, 3 = 0.00, 4 = 0.23, 5 = 0.42, 6 = 0.86, 7 = 0.78 and 8 = 0.45

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.8psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-3-12 to 1-8-4, Interior (1) 1-8-4 to 9-7-0, Exterior(2E) 9-7-0 to 13-9-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- **TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Ps= varies (19.2 psf Lum DOL=1.15 Plate DOL=1.15) see load cases; Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.2 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 82 lb uplift at joint 2 and 61 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-5=-59, 5-6=-59, 7-9=-20