

Job Name:	Truss Name:	Qty	Ply	Job Desc:	2454W Walls	Drawing No.:
B6138	A1	18	1	Truss Desc:		

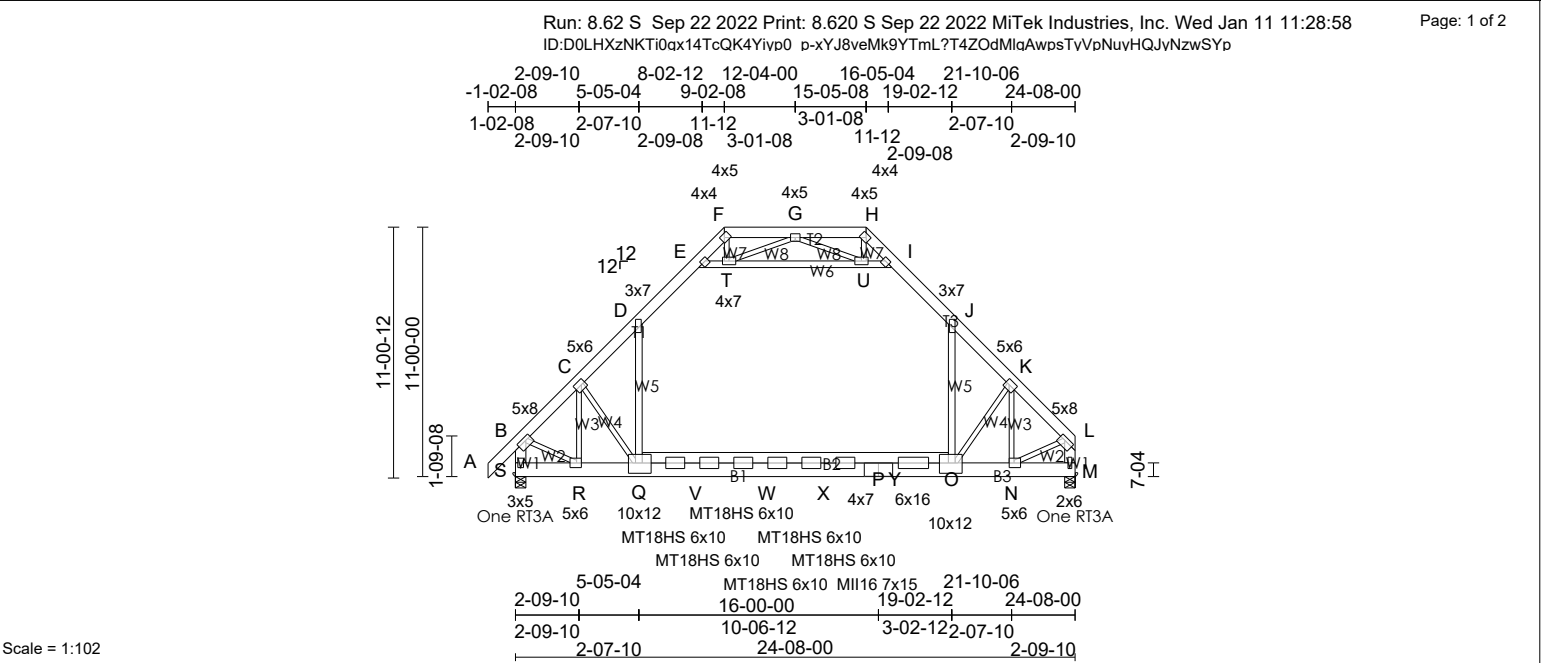


Plate Offsets (Joint: x, y): (B: 3-00, 1-12), (C: 2-04, 2-08), (D: 0-00, 6-00), (E: 2-01, 1-12), (F: 2-00, 1-12), (H: 2-00, 1-12), (I: 2-01, 1-12), (J: 0-00, 6-00), (K: 2-04, 2-08), (L: 3-00, 1-12), (N: 2-08, 2-08), (O: 3-12, 5-08), (Q: 3-12, 5-08), (R: 2-08, 2-08)

Total Weight = 18 x 195 = 3517 lb

SPECIFIED LOADS	CODES / STANDARDS	DESIGN INFORMATION	DEFLECTIONS	PLATE INFORMATION
Top ch. Snow Top ch. Dead Bot ch. Live Bot ch. Dead Total Load ATTIC Live ATTIC Dead ATTIC Ceiling	(psf) 36.55 5.00 10.00 7.00 58.55 40.00 10.00 5.00 Part 4 Div. B NBCC 2015 Commercial Application: Attic Importance: Normal This design complies with: CBC2018, NBC-2019AE, OBC2012(2019 Amendment), TPIC2014, CSAO86-14	SPACING: 24.00 in cc KS = 1.00 (Dry Service) KH = 1.10 (Load Sharing Member) KD = 1.00 (Load Duration LC1) CSI Top 0.99/1.00 J-K (21) CSI Bot 0.95/1.00 W-X (19) CSI Web 0.35/1.00 L-N (3) SSI 0.78/1.00 N-O (20)	Ceiling Type: Plaster / Gypsum DESIGN (in) LIMIT (in) Vert(LL) L/512 (0.58) L/360 (0.82) Vert(TL) L/407 (0.73) L/180 (1.64) Vert(DL) L/999 (0.15) L/360 (0.82) Horiz(TL) L/999 (0.04) L/296 (1.00)	All plates are MT20 unless otherwise noted. Placement Tolerance: 0.25 in Rotation Tolerance: 5 ° JSI Grip (max): 0.89 @ Joint E. Limit = 0.90 JSI Metal (max): 0.94 @ Joint P. Limit = 1.00 Plate Grip (psi) Shear (pli) Section (pli) MT20 650/371 1747/788 1987/1873 M116 438/302 2547/1256 4283/1816 MT18HS 586/403 2455/1382 3163/3004

Max. Factored Reactions (lb), Bearing Information								Bracing Requirements					
Support	Down (LC)	Uplift	Horiz	Input	Req'd	Brq. Material	Brq. Enhancer	Top Chord:	Rigid sheathing directly applied or 2.44 ft oc lateral restraint required.				
S	3163 (2)	-308	423	5-08	4-13	SPF No.2	none	Interior Chord:	Rigid Ceiling directly applied or 4.66 ft oc lateral restraint required at E-T, T-U, I-U.				
M	2967 (3)	-260	0	5-08	4-02	SPF No.2	none	Bottom Chord:	Rigid Ceiling directly applied or 6.25 ft oc lateral restraint required.				
Unfactored Reactions (lb)								Lumber (NLGA Grading Rules)					
Support	Snow	Live	Wind	Dead	Wind(H)			Chords					
S	1177/0	1166/0	158/-522	518/0	302/-290			2x6 SPF 1650F 1.5E	B2, W1, T1, T2, T3				
M	1058/0	1166/0	114/-479	505/0	0/0			2x8 SPF 1950F 1.7E	B1, B3				
Factored Vertical Load in LC1 (plf), Max Factored Member Forces (lb), CSI, Max Unbraced Length (MUL)								LoadCases: 21					
Member	Start	End	MaxC	MaxT	CSI (LC)	MUL (ft)	Member	Start	End	MaxC	MaxT	CSI (LC)	MUL (ft)
Top Ch.	A-B	-122.1	-122.1	0	69	0.07 (2)	B-C	-122.1	-122.1	2700	299	0.18 (20)	5.52
	C-D	-122.1	-122.1	3237	344	0.99 (20)	D-E	-134.6	-134.6	2131	379	0.97 (20)	4.3
	E-F	-122.1	-122.1	859	727	0.88 (19)	F-G	-172.9	-172.9	496	1174	0.15 (19)	6.25
	G-H	-172.9	-172.9	517	1169	0.15 (19)	H-I	-122.2	-122.2	883	725	0.88 (20)	6.25
	I-J	-134.7	-134.7	2129	384	0.98 (21)	J-K	-122.2	-122.2	3243	352	0.99 (21)	2.44
	K-L	-122.2	-122.2	2700	278	0.18 (21)	B-S	--	--	3071	343	0.13 (2)	--
	L-M	--	--	2874	297	0.12 (3)	--	--	--	--	--	--	--
Bot Ch.	R-S	-37.5	-37.5	402	397	0.11 (21)	Q-R	-37.5	-37.5	321	1961	0.77 (21)	--
	Q-V	-122.5	-122.5	47	1934	0.63 (20)	Q-V	-122.5	-122.5	47	1934	0.63 (20)	--
	V-W	-122.5	-122.5	47	1934	0.83 (19)	V-W	-122.5	-122.5	47	1934	0.83 (19)	--
	W-X	-122.5	-122.5	47	1934	0.95 (19)	W-X	-122.5	-122.5	47	1934	0.95 (19)	--
	P-X	-122.5	-122.5	47	1934	0.84 (19)	P-X	-122.5	-122.5	47	1934	0.84 (19)	--
	P-Y	-122.6	-122.6	47	1934	0.65 (21)	P-Y	-122.6	-122.6	47	1934	0.65 (21)	--
	O-Y	-122.6	-122.6	47	1934	0.65 (21)	O-Y	-122.6	-122.6	47	1934	0.65 (21)	--
	N-O	-37.5	-37.5	86	1962	0.77 (20)	M-N	-37.5	-37.5	10	21	0.11 (20)	10
Webs	D-Q	--	--	0	2250	0.26 (19)	J-O	--	--	0	2259	0.26 (19)	--
	E-T	-32.5	-32.5	2753	408	0.17 (4)	T-U	-32.5	-32.5	2560	143	0.19 (17)	4.8
	I-U	-32.5	-32.5	2748	420	0.17 (4)	B-R	--	--	75	2124	0.35 (2)	--
	L-N	--	--	116	2125	0.35 (3)	F-T	--	--	77	658	0.11 (3)	--
	H-U	--	--	78	655	0.11 (2)	G-T	--	--	1101	297	0.16 (3)	--
	G-U	--	--	1095	299	0.16 (2)	C-Q	--	--	879	885	0.21 (20)	--
	K-O	--	--	885	889	0.21 (21)	C-R	--	--	1893	159	0.33 (21)	--
	K-N	--	--	1906	197	0.33 (20)	--	--	--	--	--	--	--

Job Name:	Truss Name:	Qty	Ply	Job Desc: 2454W Walls	Drawing No.:
B6138	A1	18	1	Truss Desc:	

Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Wed Jan 11 11:28:58
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NOTES

1. Importance Factors: Snow = 1.00, Wind = 1.00.
2. Specified Snow Load: $S = Is (Ss(CbCwCsCa) + Sr) = 1.00 (56.39 (0.50) + 8.35) = 36.55 \text{ psf}$. $Cb = 0.80$, $Cw = 1.00$, $Cs = 0.63$, $Ca = 1.00$.
3. Wind loading based on Main Wind Force Resisting System, Open Terrain, $h = 40\text{-}00\text{-}00$, $q = 8.15 \text{ psf}$. Internal wind pressure based on Category 2 openings. Truss to be located at least 0-00 away from end wall. Truss uplift is based on top and bottom chord dead loads of 5.00 psf and 5.00 psf respectively.
4. Truss has been checked for unbalanced loading as per NBCC 4.1.6.2.(8)
5. End Vertical(s) must be Sheathed or have Braces as Indicated in the Max. Unbraced Length Column of the Table Above
6. One RT3A MiTek connector(s) recommended to connect truss for uplift at joint(s) S, M. This connection is for uplift only and does not consider lateral forces.
7. Adequate connection (by others) required at Joint(s) S for 423 lb factored horizontal reaction
8. Truss plate manufacturer is not responsible for quality control in the truss manufacturing plant. Dimensions, supports, and loadings specified by fabricator to be verified by building designer. All pitch breaks and perimeter corner joints must be laterally restrained. All lumber is dry (moisture content is less than 19%) at time of fabrication, unless otherwise specified

Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Wed Jan 11 11:29:02 Page: 1 of 2

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Plate Offsets (Joint: x, y): (A: 3-00, 1-12), (B: 1-00, 2-08), (E: 2-00, 1-12), (G: 2-00, 1-12), (J: 1-00, 2-08), (K: 3-00, 1-12), (L: 2-12, 2-08), (M: 2-08, 2-08), (N: 3-04, 3-00), (P: 3-04, 3-00), (Q: 2-08, 2-08), (R: 0-12, 2-08) Total Weight = 1 x 187 = 187 lb

BEARINGS													Bracing Requirements			
THIS TRUSS IS DESIGNED FOR CONTINUOUS BEARING.													Top Chord:	Rigid sheathing directly applied or 6.25 ft oc lateral restraint required.		
THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.													Interior Chord:	Rigid Ceiling directly applied or 6.25 ft oc lateral restraint required at D-H.		
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S).													Bottom Chord:	Rigid Ceiling directly applied or 6.25 ft oc lateral restraint required.		
Factored Vertical Load in LC1 (plf), Max Factored Member Forces (lb), CSI, Max Unbraced Length (MUL)										LoadCases: 39						
Member	Start	End	MaxC	MaxT	CSI (LC)	MUL (ft)	Member	Start	End	MaxC	MaxT	CSI (LC)	MUL (ft)			

THIS TRUSS IS DESIGNED FOR CONTINUOUS BEARING.
THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S).

Top Chord:	Rigid sheathing directly applied or 6.25 ft oc lateral restraint required.
Interior Chord:	Rigid Ceiling directly applied or 6.25 ft oc lateral restraint required at D-H.
Bottom Chord:	Rigid Ceiling directly applied or 6.25 ft oc lateral restraint required.

LoadCases: 39

	Member	Start	End	MaxC	MaxT	CSI (LC)	MUL (ft)		Member	Start	End	MaxC	MaxT	CSI (LC)	MUL (ft)
Too Ch.	A-R	--	--	1156	122	0.05 (21)	--		E-F	-172.9	-172.9	896	162	0.07 (21)	6.25
	F-G	-172.9	-172.9	896	160	0.07 (31)	6.25		K-L	--	--	1156	113	0.05 (23)	--
	A-B	-122.1	-122.1	1096	120	0.05 (21)	6.25		B-C	-122.1	-122.1	1262	226	0.16 (21)	6.25
	C-D	-134.6	-134.6	1367	315	0.16 (21)	6.25		D-E	-122.1	-122.1	1133	162	0.10 (21)	6.25
	G-H	-122.1	-122.1	1133	160	0.10 (31)	6.25		H-I	-134.6	-134.6	1367	313	0.16 (31)	6.25
	I-J	-122.1	-122.1	1262	222	0.16 (31)	6.25		J-K	-122.1	-122.1	1096	123	0.05 (31)	6.25
Bot Ch.	Q-R	-37.5	-37.5	369	376	0.20 (37)	--		P-Q	-37.5	-37.5	195	789	0.80 (37)	--
	P-U	-122.5	-122.5	128	873	0.51 (37)	--		P-U	-122.5	-122.5	128	873	0.51 (37)	--
	U-V	-122.5	-122.5	128	873	0.61 (37)	--		U-V	-122.5	-122.5	128	873	0.61 (37)	--
	V-W	-122.5	-122.5	128	873	0.72 (37)	--		V-W	-122.5	-122.5	128	873	0.72 (37)	--
	W-X	-122.5	-122.5	128	873	0.72 (37)	--		W-X	-122.5	-122.5	128	873	0.72 (37)	--
	O-X	-122.5	-122.5	128	873	0.61 (37)	--		O-X	-122.5	-122.5	128	873	0.61 (37)	--
	Q-Y	-122.6	-122.6	128	873	0.19 (39)	--		O-Y	-122.6	-122.6	128	873	0.19 (39)	--
	N-Y	-122.6	-122.6	128	873	0.51 (37)	--		N-Y	-122.6	-122.6	128	873	0.51 (37)	--
	M-N	-37.5	-37.5	98	784	0.80 (37)	--		L-M	-37.5	-37.5	6	13	0.20 (37)	10
Webs	C-P	--	--	700	354	0.27 (21)	--		I-N	--	--	700	350	0.27 (31)	--
	D-S	-32.5	-32.5	302	288	0.09 (17)	6.25		S-T	-32.5	-32.5	10	466	0.13 (5)	6.25
	H-T	-32.5	-32.5	300	283	0.09 (17)	6.25		E-S	--	--	65	515	0.08 (23)	--
	G-T	--	--	65	515	0.08 (21)	--		F-S	--	--	764	222	0.10 (23)	--
	F-T	--	--	764	222	0.10 (21)	--		A-Q	--	--	70	814	0.13 (19)	--
	B-P	--	--	0	283	0.05 (23)	--		B-Q	--	--	594	112	0.08 (19)	--
	K-M	--	--	96	814	0.13 (19)	--		J-N	--	--	25	283	0.05 (21)	--
	I-M	--	--	594	121	0.08 (19)	--								

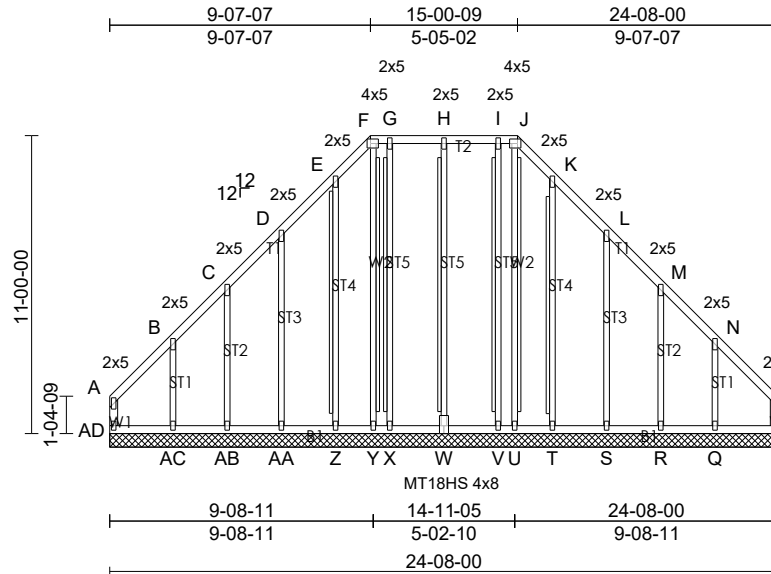
Chords	
2x6 SPF 1650F 1.5E	B2, W1, T2, T1
2x8 SPF 1950F 1.7E	B1, B3
Webs	
2x3 SPF 1650F 1.5E	W7, W8, W4, W2, W3
2x4 SPF 1650F 1.5E	W5, W6

1. Importance Factors: Snow = 1.00, Wind = 1.00.
2. Specified Snow Load: $S = I_s (S_s(CbCwCsCa) + S_r) = 1.00 (56.39 (0.80) + 8.35) = 53.47 \text{ psf}$. $C_b = 0.80$, $C_w = 1.00$, $C_s = 1.00$, $C_a = 1.00$.
3. Wind loading based on Main Wind Force Resisting System, Open Terrain, $h = 40\text{-}00\text{-}00$, $q = 8.15 \text{ psf}$. Internal wind pressure based on Category 2 openings. Truss to be located at least 0-00 away from end wall. Truss uplift is based on top and bottom chord dead loads of 5.00 psf and 5.00 psf respectively.
4. Truss has been checked for unbalanced loading as per NBCC 4.1.6.2.(8)
5. End Vertical(s) must be Sheathed or have Braces as Indicated in the Max. Unbraced Length Column of the Table Above
6. One RT3A MiTek connector(s) recommended to connect truss for uplift at joint(s) R, L, P, N. This connection is for uplift only and does not consider lateral forces.

Job Name: B6138	Truss Name: GE1	Qty 1	Ply 1	Job Desc: 2454W Walls Truss Desc:	Drawing No.:
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Scale = 1:85.4

Plate Offsets (Joint: x, y): (F: 3-08, 2-00), (J: 3-08, 2-00), (W: 0-00, Edge)

Total Weight = 1 x 150 = 150 lb

SPECIFIED LOADS		CODES / STANDARDS		DESIGN INFORMATION				DEFLECTIONS		PLATE INFORMATION				
	(psf)	Part 9 Div B NBCC 2015		SPACING: 24.00 in cc				Ceiling Type: Plaster / Gypsum		All plates are MT20 unless otherwise noted.				
Top ch. Snow	39.37	Residential		KS = 1.00 (Dry Service)				DESIGN (in)	LIMIT (in)	Placement Tolerance:		0.25 in		
Top ch. Dead	6.00	Application: Roof		KH = 1.10 (Load Sharing Member)						Rotation Tolerance:		5 °		
Bot ch. Live	0.00			KD = 1.00 (Load Duration LC1)						JSI Grip (max):		0.89 @ Joint U. Limit = 0.90		
Bot ch. Dead	7.00	This design complies with:								JSI Metal (max):		0.15 @ Joint B. Limit = 1.00		
Total Load	52.37	BCBC2018, NBC-2019AE,		CSI	Top	0.06/1.00	A-B	(1)			Plate	Grip (psi)	Shear (pli)	Section (pli)
		OBC2012(2019 Amendment),		CSI	Bot	0.02/1.00	AC-AD	(1)			MT20	650/371	1747/788	1987/1873
		TPIC2014, CSAO86-14		CSI	Web	0.23/1.00	D-AA	(1)			MT18HS	586/403	2455/1382	3163/3004
				SSI		0.11/1.00	G-H	(1)						

BEARINGS

THIS TRUSS IS DESIGNED FOR CONTINUOUS BEARING.
THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S).

Factored Vertical Load in LC1 (plf), Max Factored Member Forces (lb), CSI, Max Unbraced Length (MUL)

Member	Start	End	MaxC	MaxT	CSI (LC)	MUL (ft)	Member	Start	End	MaxC	MaxT	CSI (LC)	MUL (ft)
Top Ch.													
A-AD	--	--	198	0	0.05 (1)	--	F-G	-133.1	-133.1	32	0	0.03 (1)	6.25
G-H	-133.1	-133.1	32	0	0.05 (1)	6.25	H-I	-133.1	-133.1	32	0	0.05 (1)	6.25
I-J	-133.1	-133.1	32	0	0.03 (1)	6.25	O-P	--	--	198	0	0.05 (1)	--
A-B	-133.1	-133.1	73	0	0.06 (1)	6.25	B-C	-133.1	-133.1	67	0	0.06 (1)	6.25
C-D	-133.1	-133.1	54	0	0.05 (1)	6.25	D-E	-133.1	-133.1	57	0	0.05 (1)	6.25
E-F	-133.1	-133.1	48	0	0.03 (1)	6.25	J-K	-133.1	-133.1	48	0	0.03 (1)	6.25
K-L	-133.1	-133.1	57	0	0.05 (1)	6.25	L-M	-133.1	-133.1	54	0	0.05 (1)	6.25
M-N	-133.1	-133.1	67	0	0.06 (1)	6.25	N-O	-133.1	-133.1	73	0	0.06 (1)	6.25
Bot Ch.													
AC-AD	-17.5	-17.5	0	54	0.02 (1)	10	AB-AC	-17.5	-17.5	0	45	0.02 (4)	10
AA-AB	-17.5	-17.5	0	40	0.01 (4)	10	Z-AA	-17.5	-17.5	0	36	0.01 (4)	10
Y-Z	-17.5	-17.5	0	33	0.01 (4)	10	X-Y	-17.5	-17.5	0	32	0.01 (4)	10
W-X	-17.5	-17.5	0	32	0.01 (4)	10	V-W	-17.5	-17.5	0	32	0.01 (4)	10
U-V	-17.5	-17.5	0	32	0.01 (4)	10	T-U	-17.5	-17.5	0	33	0.01 (4)	10
S-T	-17.5	-17.5	0	36	0.01 (4)	10	R-S	-17.5	-17.5	0	40	0.01 (4)	10
Q-R	-17.5	-17.5	0	45	0.02 (4)	10	P-Q	-17.5	-17.5	0	54	0.02 (1)	10
Webs													
H-W	--	--	282	0	0.22 (1)	7.81	G-X	--	--	170	0	0.13 (1)	7.81
E-Z	--	--	215	0	0.12 (1)	7.81	D-AA	--	--	274	0	0.23 (1)	--
C-AB	--	--	254	0	0.09 (1)	--	B-AC	--	--	282	0	0.04 (1)	--
I-V	--	--	170	0	0.13 (1)	7.81	K-T	--	--	215	0	0.12 (1)	7.81
L-S	--	--	274	0	0.23 (1)	--	M-R	--	--	254	0	0.09 (1)	--
N-Q	--	--	282	0	0.04 (1)	--	F-Y	--	--	108	0	0.08 (1)	7.81
J-U	--	--	108	0	0.08 (1)	7.81							

Bracing Requirements

Top Chord: Rigid sheathing directly applied or 6.25 ft oc lateral restraint required.
Bottom Chord: Rigid Ceiling directly applied or 10 ft oc lateral restraint required.
T-Brace: 2x4 SPF No.2 T-Brace required on H-W, G-X, E-Z, I-V, K-T, F-Y, J-U

See Drawing notes below for T/I Brace Connectivity

Lumber (NLGA Grading Rules)

Chords

2x3 SPF 1650F 1.5E ST5, ST3, ST2, ST1, ST4
2x4 SPF 1650F 1.5E B1, W1, T2, T1

Webs

2x3 SPF 1650F 1.5E All Webs

NOTES

- Specified Snow Load: $S = S_s(C_b) + S_r = 56.39 (0.55) + 8.35 = 39.37$ psf
- End Vertical(s) must be Sheathed or have Braces as Indicated in the Max. Unbraced Length Column of the Table Above
- Fasten T/I braces to narrow edge of web with (0.120" x 3.00") nails @ 6-00 O.C. with min. 3-00 end distance. Brace must cover 90% of web length
- Truss plate manufacturer is not responsible for quality control in the truss manufacturing plant. Dimensions, supports, and loadings specified by fabricator to be verified by building designer. All pitch breaks and perimeter corner joints must be laterally restrained. All lumber is dry (moisture content is less than 19%) at time of fabrication, unless otherwise specified

Job Name: B6138	Truss Name: GE3	Qty 1	Ply 1	Job Desc: 2454W Walls Truss Desc:	Drawing No.:
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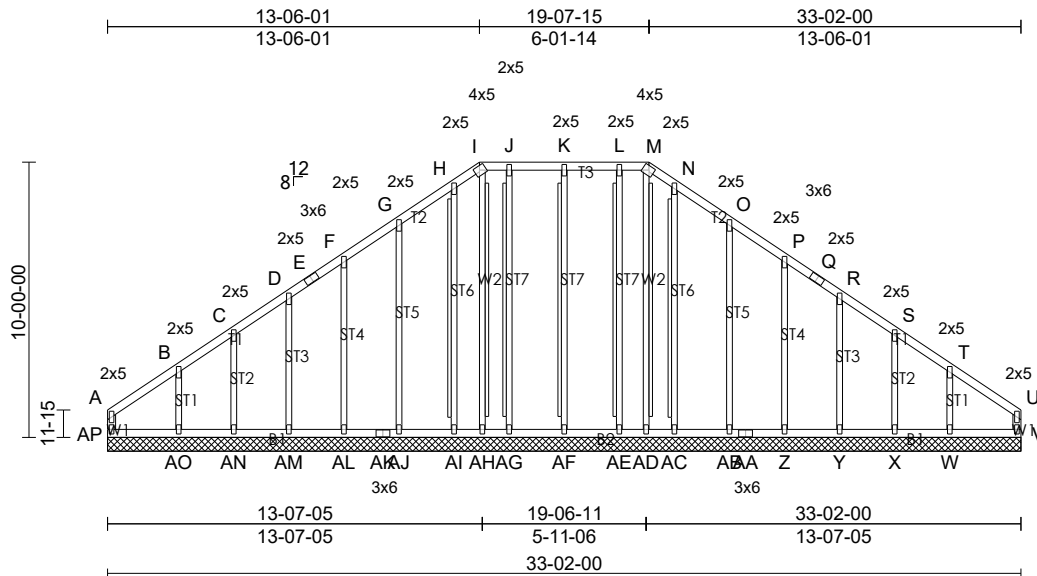


Plate Offsets (Joint: x, y): (I: 2-04, 1-12), (M: 2-04, 1-12)

SPECIFIED LOADS	CODES / STANDARDS	DESIGN INFORMATION	DEFLECTIONS	PLATE INFORMATION
Top ch. Snow (psf) 39.37 Top ch. Dead 6.00 Bot ch. Live 0.00 Bot ch. Dead 7.00 Total Load 52.37	Part 9 Div B NBCC 2015 Residential Application: Roof This design complies with: CBC2018, NBC-2019AE, OBC2012(2019 Amendment), TPIC2014, CSAO86-14	SPACING: 24.00 in cc KS = 1.00 (Dry Service) KH = 1.10 (Load Sharing Member) KD = 1.00 (Load Duration LC1) CSI Top 0.07/1.00 T-U (1) CSI Bot 0.02/1.00 V-W (4) CSI Web 0.26/1.00 G-AJ (1) SSI 0.11/1.00 T-U (1)	Ceiling Type: Plaster / Gypsum DESIGN (in) LIMIT (in)	All plates are MT20 unless otherwise noted. Placement Tolerance: 0.25 in Rotation Tolerance: 5 ° JSI Grip (max): 0.89 @ Joint AD. Limit = 0.90 JSI Metal (max): 0.16 @ Joint A. Limit = 1.00 Plate Grip (psi) Shear (pli) Section (pli) MT20 650/371 1747/788 1987/1873

BEARINGS

THIS TRUSS IS DESIGNED FOR CONTINUOUS BEARING.
THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S).

Factored Vertical Load in LC1 (plf), Max Factored Member Forces (lb), CSI, Max Unbraced Length (MUL)

Member	Start	End	MaxC	MaxT	CSI (LC)	MUL (ft)	Member	Start	End	MaxC	MaxT	CSI (LC)	MUL (ft)
Top Ch.													
A-AP	--	--	207	0	0.06 (1)	--	I-J	-133.1	-133.1	40	0	0.03 (1)	6.25
J-K	-133.1	-133.1	40	0	0.05 (1)	6.25	K-L	-133.1	-133.1	40	0	0.05 (1)	6.25
L-M	-133.1	-133.1	40	0	0.03 (1)	6.25	U-V	--	--	207	0	0.06 (1)	--
A-B	-133.1	-133.1	81	0	0.07 (1)	6.25	B-C	-133.1	-133.1	78	0	0.07 (1)	6.25
C-D	-133.1	-133.1	63	0	0.05 (1)	6.25	D-E	-133.1	-133.1	60	0	0.05 (1)	6.25
E-F	-133.1	-133.1	60	0	0.05 (1)	6.25	F-G	-133.1	-133.1	55	0	0.05 (1)	6.25
G-H	-133.1	-133.1	58	0	0.05 (1)	6.25	H-I	-133.1	-133.1	51	0	0.03 (1)	6.25
M-N	-133.1	-133.1	51	0	0.03 (1)	6.25	N-O	-133.1	-133.1	58	0	0.05 (1)	6.25
O-P	-133.1	-133.1	55	0	0.05 (1)	6.25	P-Q	-133.1	-133.1	60	0	0.05 (1)	6.25
Q-R	-133.1	-133.1	60	0	0.05 (1)	6.25	R-S	-133.1	-133.1	63	0	0.05 (1)	6.25
S-T	-133.1	-133.1	78	0	0.07 (1)	6.25	T-U	-133.1	-133.1	81	0	0.07 (1)	6.25
Bot Ch.													
AO-AP	-17.5	-17.5	0	70	0.02 (4)	10	AN-AO	-17.5	-17.5	0	59	0.02 (4)	10
AM-AN	-17.5	-17.5	0	54	0.01 (4)	10	AL-AM	-17.5	-17.5	0	50	0.01 (4)	10
AK-AL	-17.5	-17.5	0	46	0.01 (4)	10	AJ-AK	-17.5	-17.5	0	46	0.01 (4)	10
AI-AJ	-17.5	-17.5	0	43	0.01 (4)	10	AH-AI	-17.5	-17.5	0	42	0.01 (4)	10
AG-AH	-17.5	-17.5	0	40	0.01 (4)	10	AF-AG	-17.5	-17.5	0	40	0.01 (4)	10
AE-AF	-17.5	-17.5	0	40	0.01 (4)	10	AD-AE	-17.5	-17.5	0	40	0.01 (4)	10
AC-AD	-17.5	-17.5	0	42	0.01 (4)	10	AB-AC	-17.5	-17.5	0	43	0.01 (4)	10
AA-AB	-17.5	-17.5	0	46	0.01 (4)	10	Z-AA	-17.5	-17.5	0	46	0.01 (4)	10
Y-Z	-17.5	-17.5	0	50	0.01 (4)	10	X-Y	-17.5	-17.5	0	54	0.01 (4)	10
W-X	-17.5	-17.5	0	59	0.02 (4)	10	V-W	-17.5	-17.5	0	70	0.02 (4)	10
Webs													
K-AF	--	--	286	0	0.17 (1)	7.81	J-AG	--	--	197	0	0.12 (1)	7.81
H-AI	--	--	191	0	0.10 (1)	7.81	G-AJ	--	--	275	0	0.26 (1)	--
F-AL	--	--	262	0	0.15 (1)	--	D-AM	--	--	267	0	0.08 (1)	--
C-AN	--	--	248	0	0.04 (1)	--	B-AO	--	--	311	0	0.03 (1)	--
L-AE	--	--	197	0	0.12 (1)	7.81	N-AC	--	--	191	0	0.10 (1)	7.81
O-AB	--	--	275	0	0.26 (1)	--	P-Z	--	--	262	0	0.15 (1)	--
R-Y	--	--	267	0	0.08 (1)	--	S-X	--	--	248	0	0.04 (1)	--
T-W	--	--	311	0	0.03 (1)	--	I-AH	--	--	107	0	0.06 (1)	7.81
M-AD	--	--	107	0	0.06 (1)	7.81							

Bracing Requirements

Top Chord: Rigid sheathing directly applied or 6.25 ft oc lateral restraint required.
Bottom Chord: Rigid Ceiling directly applied or 10 ft oc lateral restraint required.
T-Brace: 2x4 SPF No.2 T-Brace required on K-AF, J-AG, H-AI, L-AE, N-AC, I-AH, M-AD
See Drawing notes below for T/I Brace Connectivity

Lumber (NLGA Grading Rules)

Chords
2x3 SPF 1650F 1.5E ST7, ST6, ST5, ST4, ST3, ST2, ST1
2x4 SPF 1650F 1.5E B1, B2, W1, T1, T3, T2
Webs
2x3 SPF 1650F 1.5E All Webs

Job Name:	Truss Name:	Qty	Ply	Job Desc: 2454W Walls	Drawing No.:
B6138	GE3	1	1	Truss Desc:	

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Page: 2 of 2

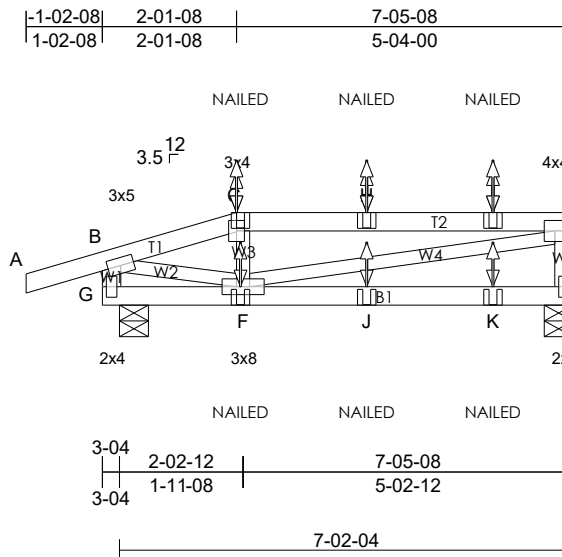
NOTES

1. Specified Snow Load: $S = S_s(C_b) + S_r = 56.39 (0.55) + 8.35 = 39.37$ psf
2. End Vertical(s) must be Sheathed or have Braces as Indicated in the Max. Unbraced Length Column of the Table Above
3. Fasten T/I braces to narrow edge of web with (0.120" x 3.00") nails @ 6-00 O.C. with min. 3-00 end distance. Brace must cover 90% of web length
4. Truss plate manufacturer is not responsible for quality control in the truss manufacturing plant. Dimensions, supports, and loadings specified by fabricator to be verified by building designer. All pitch breaks and perimeter corner joints must be laterally restrained. All lumber is dry (moisture content is less than 19%) at time of fabrication, unless otherwise specified

Job Name: B6138	Truss Name: H4	Qty 1	Ply 1	Job Desc: 2454W Walls Truss Desc:	Drawing No.:
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Scale = 1:36.7

Total Weight = 1 x 26 = 26 lb

SPECIFIED LOADS	CODES / STANDARDS	DESIGN INFORMATION	DEFLECTIONS	PLATE INFORMATION
Top ch. Snow (psf) 39.37 Top ch. Dead 6.00 Bot ch. Live 0.00 Bot ch. Dead 7.00 Total Load 52.37	Part 9 Div B NBCC 2015 Residential Application: Roof This design complies with: CBC2018, NBC-2019AE, OBC2012(2019 Amendment), TPIC2014, CSAO86-14	SPACING: 24.00 in cc KS = 1.00 (Dry Service) KH = 1.00 (Single Member) KD = 1.00 (Load Duration LC1) CSI Top 0.64/1.00 H-I (1) CSI Bot 0.10/1.00 J-K (4) CSI Web 0.14/1.00 B-F (1) SSI 0.31/1.00 D-I (1)	Ceiling Type: Plaster / Gypsum DESIGN (in) LIMIT (in) Vert(LL) L/999 (0.02) L/360 (0.25) Vert(TL) L/999 (0.04) L/360 (0.25) Vert(DL) L/999 (0.02) L/360 (0.25) Horiz(TL) L/999 (0.00) L/120 (0.75)	All plates are MT20 unless otherwise noted. Placement Tolerance: 0.25 in Rotation Tolerance: 5 ° JSI Grip (max): 0.87 @ Joint F. Limit = 0.90 JSI Metal (max): 0.26 @ Joint D. Limit = 1.00 Plate Grip (psi) Shear (pli) Section (pli) MT20 650/371 1747/788 1987/1873

Max. Factored Reactions (lb), Bearing Information										Unfactored Reactions (lb)			
Support	Down (LC)	Uplift	Horiz	Input	Req'd	Brq. Material	Brq. Enhancer	Snow	Live	Dead	Wind		
G	745 (1)	--	0	5-08	1-08	SPF No.2	none	399/0	--	118/0	--		
E	579 (1)	--	0	5-08	1-08	SPF No.2	none	302/0	--	101/0	--		

Factored Vertical Load in LC1 (plf), Max Factored Member Forces (lb), CSI, Max Unbraced Length (MUL)										LoadCases: 4			
Member	Start	End	MaxC	MaxT	CSI (LC)	MUL (ft)	Member	Start	End	MaxC	MaxT	CSI (LC)	MUL (ft)
Top Ch.							B-C	-133.1	-133.1	817	0	0.10 (1)	6.25
A-B	-133.1	-133.1	0	23	0.13 (1)	10	H-I	-133.1	-133.1	758	0	0.64 (1)	--
C-H	-133.1	-133.1	758	0	0.61 (1)	6.25	D-E	--	--	534	0	0.04 (1)	--
D-I	-133.1	-133.1	758	0	0.47 (1)	6.25							
B-G	--	--	731	0	0.05 (1)	--							
Bot Ch.							F-J	-17.5	-17.5	0	0	0.08 (4)	10
F-G	-17.5	-17.5	0	0	0.08 (4)	10	E-K	-17.5	-17.5	0	0	0.08 (4)	10
J-K	-17.5	-17.5	0	0	0.10 (4)	--							
Webs							D-F	--	--	0	777	0.14 (1)	--
C-F	--	--	291	0	0.03 (1)	--							
B-F	--	--	0	807	0.14 (1)	--							

Factored Concentrated Loads lb													
Jnt.	Location	Max +	Max -	Dir.	Face	Heel	Conn.	Jnt.	Location	Max +	Max -	Dir.	Face
C	2-01-08	0	15	Vert.	Front	3-10	C1	F	2-02-12	0	1	Vert.	Front
H	4-02-04	0	8	Vert.	Front	3-10	C1	I	6-02-04	0	8	Vert.	Front
J	4-02-04	0	1	Vert.	Front	3-08	C1	K	6-02-04	0	1	Vert.	Front

Bracing Requirements

Top Chord: Rigid sheathing directly applied or 6.25 ft oc lateral restraint required.
Bottom Chord: Rigid Ceiling directly applied or 10 ft oc lateral restraint required.

Lumber (NLGA Grading Rules)

Chords
2x4 SPF 1650F 1.5E B1, W1, W5, T1, T2
Webs
2x3 SPF 1650F 1.5E All Webs

Connection Requirements

- 1) C1: Connect incoming truss to girder using (0.122" x 3.00") spiral nails as per MiTek Standard Detail MSD2015-H.

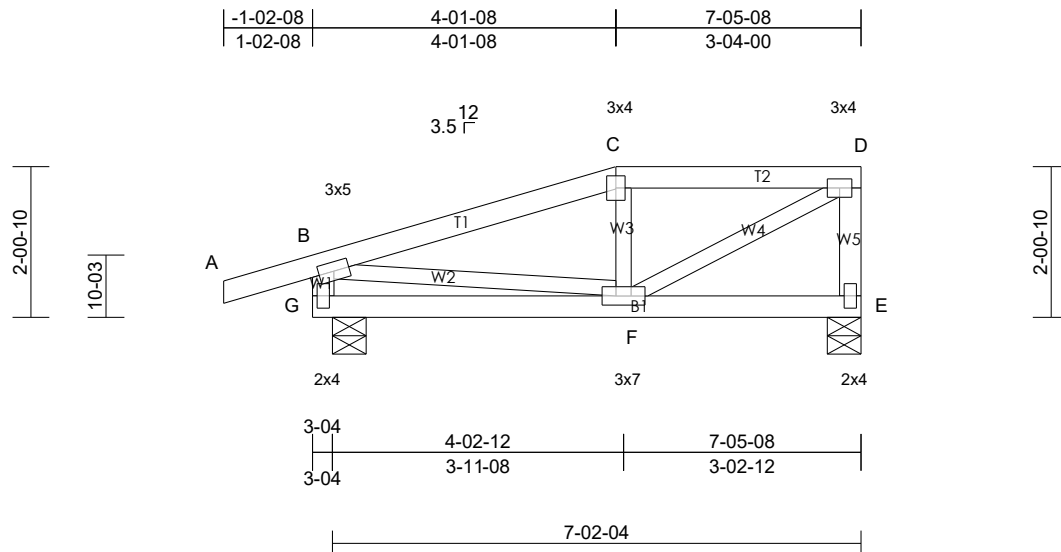
NOTES

1. Specified Snow Load: S = Ss(Cb) + Sr = 56.39 (0.55) + 8.35 = 39.37 psf
2. End Vertical(s) must be Sheathed or have Braces as Indicated in the Max. Unbraced Length Column of the Table Above
3. Loading in top chord C-D section based on a transverse pitch of 3.5 /12 (16.26 °)
4. Truss plate manufacturer is not responsible for quality control in the truss manufacturing plant. Dimensions, supports, and loadings specified by fabricator to be verified by building designer. All pitch breaks and perimeter corner joints must be laterally restrained. All lumber is dry (moisture content is less than 19%) at time of fabrication, unless otherwise specified

Job Name: B6138	Truss Name: H4A	Qty 1	Ply 1	Job Desc: 2454W Walls Truss Desc:	Drawing No.:
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Scale = 1:31.5

Total Weight = 1 x 28 = 28 lb (F)

SPECIFIED LOADS	CODES / STANDARDS	DESIGN INFORMATION	DEFLECTIONS	PLATE INFORMATION
Top ch. Snow 39.37 Top ch. Dead 6.00 Bot ch. Live 0.00 Bot ch. Dead 7.00 Total Load 52.37	Part 9 Div B NBCC 2015 Residential Application: Roof This design complies with: CBC2018, NBC-2019AE, OBC2012(2019 Amendment), TPI2014, CSAO86-14	SPACING: 24.00 in cc KS = 1.00 (Dry Service) KH = 1.10 (Load Sharing Member) KD = 1.00 (Load Duration LC1) CSI Top 0.24/1.00 B-C (1) CSI Bot 0.06/1.00 F-G (4) CSI Web 0.11/1.00 D-F (1) SSI 0.21/1.00 B-C (1)	Ceiling Type: Plaster / Gypsum DESIGN (in) LIMIT (in) Vert(LL) L/999 (0.01) L/360 (0.25) Vert(TL) L/999 (0.02) L/360 (0.25) Vert(DL) L/999 (0.01) L/360 (0.25) Horiz(TL) L/999 (0.00) L/120 (0.75)	All plates are MT20 unless otherwise noted. Placement Tolerance: 0.25 in Rotation Tolerance: 5 ° JSI Grip (max): 0.90 @ Joint D. Limit = 0.90 JSI Metal (max): 0.21 @ Joint B. Limit = 1.00 Plate Grip (psi) Shear (pli) Section (pli) MT20 650/371 1747/788 1987/1873

Max. Factored Reactions (lb), Bearing Information										Unfactored Reactions (lb)			
Support	Down (LC)	Uplift	Horiz	Input	Req'd	Brq. Material	Brq. Enhancer	Snow	Live	Dead	Wind		
G	728 (1)	--	0	5-08	1-08	SPF No.2	none	392/0	--/--	112/0	--/--		
E	562 (1)	--	0	5-08	1-08	SPF No.2	none	294/0	--/--	97/0	--/--		

Factored Vertical Load in LC1 (plf), Max Factored Member Forces (lb), CSI, Max Unbraced Length (MUL)										LoadCases: 4			
Member	Start	End	MaxC	MaxT	CSI (LC)	MUL (ft)	Member	Start	End	MaxC	MaxT	CSI (LC)	MUL (ft)
Top Ch.							B-C	-133.1	-133.1	627	0	0.24 (1)	6.25
C-D	-133.1	-133.1	562	0	0.16 (1)	6.25	D-E	--	--	538	0	0.04 (1)	--
B-G	--	--	693	0	0.04 (1)	--							
Bot Ch.							E-F	-17.5	-17.5	0	0	0.06 (4)	10
Webs							D-F	--	--	0	645	0.11 (1)	--
C-F	--	--	323	0	0.03 (1)	--							
B-F	--	--	0	606	0.10 (1)	--							

Bracing Requirements

Top Chord: Rigid sheathing directly applied or 6.25 ft oc lateral restraint required.
Bottom Chord: Rigid Ceiling directly applied or 10 ft oc lateral restraint required.

Lumber (NLGA Grading Rules)

Chords
2x4 SPF 1650F 1.5E B1, W1, W5, T1, T2
Webs
2x3 SPF 1650F 1.5E All Webs

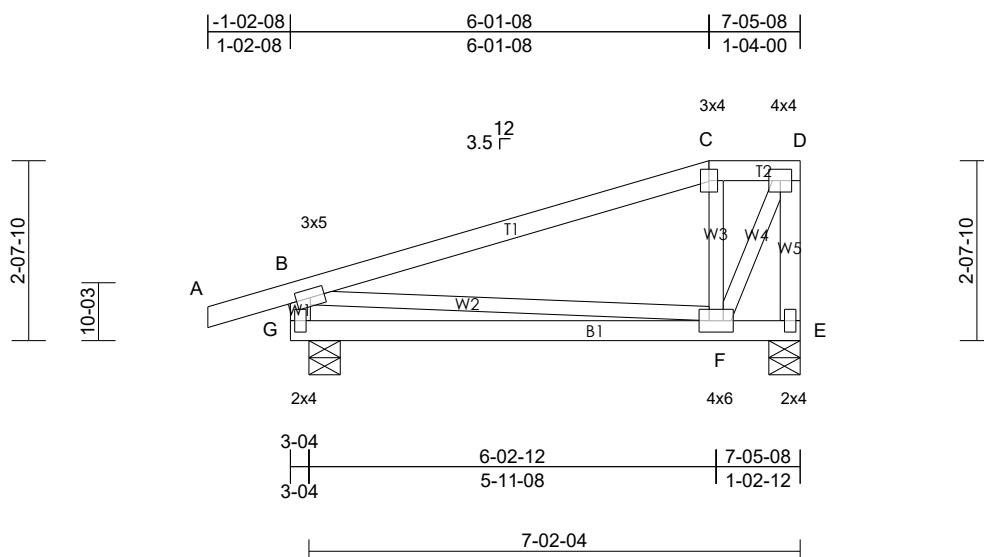
NOTES

- Specified Snow Load: $S = S_s(C_b) + S_r = 56.39 (0.55) + 8.35 = 39.37$ psf
- End Vertical(s) must be Sheathed or have Braces as Indicated in the Max. Unbraced Length Column of the Table Above
- Loading in top chord C-D section based on a transverse pitch of 3.5 / 12 (16.26 °)
- Truss plate manufacturer is not responsible for quality control in the truss manufacturing plant. Dimensions, supports, and loadings specified by fabricator to be verified by building designer. All pitch breaks and perimeter corner joints must be laterally restrained. All lumber is dry (moisture content is less than 19%) at time of fabrication, unless otherwise specified

Job Name: B6138	Truss Name: H4B	Qty 1	Ply 1	Job Desc: 2454W Walls Truss Desc:	Drawing No.:
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Page: 1 of 1



Scale = 1:33.9

Total Weight = 1 x 30 = 30 lb (F)

SPECIFIED LOADS	CODES / STANDARDS	DESIGN INFORMATION	DEFLECTIONS	PLATE INFORMATION
(psf) Top ch. Snow 39.37 Top ch. Dead 6.00 Bot ch. Live 0.00 Bot ch. Dead 7.00 Total Load 52.37	Part 9 Div B NBCC 2015 Residential Application: Roof This design complies with: CBC2018, NBC-2019AE, OBC2012(2019 Amendment), TPIC2014, CSAO86-14	SPACING: 24.00 in cc KS = 1.00 (Dry Service) KH = 1.10 (Load Sharing Member) KD = 1.00 (Load Duration LC1) CSI Top 0.42/1.00 B-C (1) CSI Bot 0.14/1.00 F-G (4) CSI Web 0.09/1.00 D-F (1) SSI 0.31/1.00 B-C (1)	Ceiling Type: Plaster / Gypsum DESIGN (in) LIMIT (in) Vert(LL) L/999 (0.01) L/360 (0.25) Vert(TL) L/999 (0.04) L/360 (0.25) Vert(DL) L/999 (0.03) L/360 (0.25) Horiz(TL) L/999 (0.00) L/120 (0.75)	All plates are MT20 unless otherwise noted. Placement Tolerance: 0.25 in Rotation Tolerance: 5 ° JSI Grip (max): 0.75 @ Joint F. Limit = 0.90 JSI Metal (max): 0.18 @ Joint F. Limit = 1.00 Plate Grip (psi) Shear (pli) Section (pli) MT20 650/371 1747/788 1987/1873

Max. Factored Reactions (lb), Bearing Information										Unfactored Reactions (lb)			
Support	Down (LC)	Uplift	Horiz	Input	Req'd	Brq. Material	Brq. Enhancer	Snow	Live	Dead	Wind		
G	728 (1)	--	0	5-08	1-08	SPF No.2	none	392/0	--/--	112/0	--/--		
E	562 (1)	--	0	5-08	1-08	SPF No.2	none	294/0	--/--	97/0	--/--		

Factored Vertical Load in LC1 (plf), Max Factored Member Forces (lb), CSI, Max Unbraced Length (MUL)										LoadCases: 4			
Member	Start	End	MaxC	MaxT	CSI (LC)	MUL (ft)	Member	Start	End	MaxC	MaxT	CSI (LC)	MUL (ft)
Top Ch.							B-C	-133.1	-133.1	297	0	0.42 (1)	6.25
A-B	-133.1	-133.1	0	23	0.09 (1)	10	D-E	--	--	602	0	0.05 (1)	--
C-D	-133.1	-133.1	257	0	0.03 (1)	6.25							
B-G	--	--	682	0	0.04 (1)	--							
Bot Ch.							E-F	-17.5	-17.5	0	0	0.14 (4)	10
F-G	-17.5	-17.5	0	0	0.14 (4)	10							
Webs							D-F	--	--	0	574	0.09 (1)	--
C-F	--	--	415	0	0.04 (1)	--							
B-F	--	--	0	287	0.05 (1)	--							

Bracing Requirements

Top Chord: Rigid sheathing directly applied or 6.25 ft oc lateral restraint required.
Bottom Chord: Rigid Ceiling directly applied or 10 ft oc lateral restraint required.

Lumber (NLGA Grading Rules)

Chords
2x4 SPF 1650F 1.5E B1, W1, W5, T2
2x4 SPF 2100F 1.8E T1
Webs
2x3 SPF 1650F 1.5E All Webs

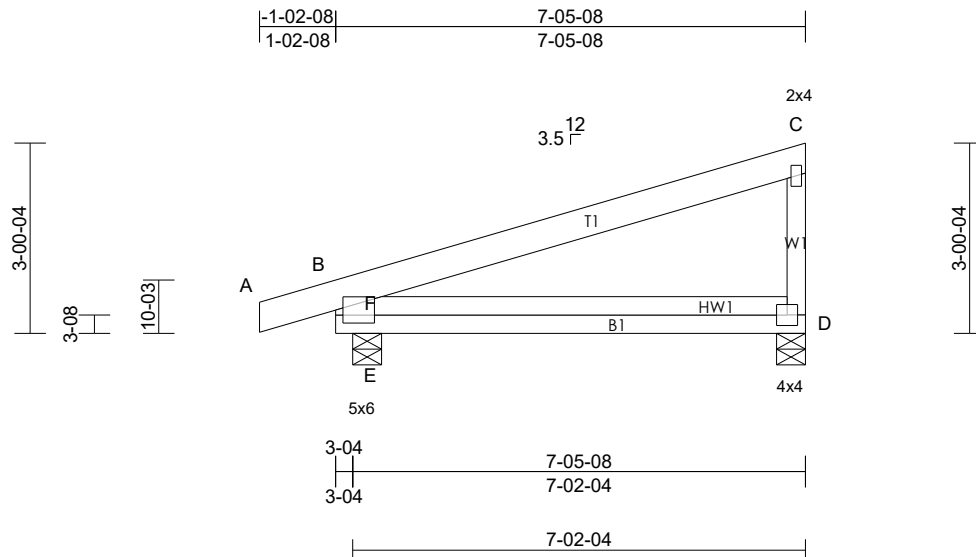
NOTES

- Specified Snow Load: $S = S_s(C_b) + S_r = 56.39 (0.55) + 8.35 = 39.37$ psf
- End Vertical(s) must be Sheathed or have Braces as Indicated in the Max. Unbraced Length Column of the Table Above
- Loading in top chord C-D section based on a transverse pitch of 3.5 /12 (16.26 °)
- Truss plate manufacturer is not responsible for quality control in the truss manufacturing plant. Dimensions, supports, and loadings specified by fabricator to be verified by building designer. All pitch breaks and perimeter corner joints must be laterally restrained. All lumber is dry (moisture content is less than 19%) at time of fabrication, unless otherwise specified

Job Name: B6138	Truss Name: J4	Qty 2	Ply 1	Job Desc: 2454W Walls Truss Desc:	Drawing No.:
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Scale = 1:36.7

Plate Offsets (Joint: x, y): (B: 3-00, 3-12)

Total Weight = 2 x 36 = 71 lb [F]

SPECIFIED LOADS	CODES / STANDARDS	DESIGN INFORMATION	DEFLECTIONS	PLATE INFORMATION
Top ch. Snow (psf) 39.37 Top ch. Dead 6.00 Bot ch. Live 0.00 Bot ch. Dead 7.00 Total Load 52.37	Part 9 Div B NBCC 2015 Residential Application: Roof This design complies with: CBC2018, NBC-2019AE, OBC2012(2019 Amendment), TPIC2014, CSAO86-14	SPACING: 24.00 in cc KS = 1.00 (Dry Service) KH = 1.10 (Load Sharing Member) KD = 1.00 (Load Duration LC1) CSI Top 0.25/1.00 C-F (1) CSI Bot 0.19/1.00 B-E (4) CSI Web 0 - (-) SSI 0.40/1.00 B-F (1)	Ceiling Type: Plaster / Gypsum DESIGN (in) LIMIT (in) Vert(LL) L/999 (0.02) L/360 (0.24) Vert(TL) L/999 (0.06) L/360 (0.24) Vert(DL) L/999 (0.04) L/360 (0.24) Horiz(TL) L/999 (0.00) L/120 (0.73)	All plates are MT20 unless otherwise noted. Placement Tolerance: 0.25 in Rotation Tolerance: 5 ° JSI Grip (max): 0.70 @ Joint D. Limit = 0.90 JSI Metal (max): 0.25 @ Joint D. Limit = 1.00 Plate Grip (psi) Shear (pli) Section (pli) MT20 650/371 1747/788 1987/1873

Max. Factored Reactions (lb),							Bearing Information		Unfactored Reactions (lb)					
Support	Down (LC)	Uplift	Horiz	Input	Req'd	Br. Material	Br. Enhancer	Snow	Live	Dead	Wind			
B	778 (1)	--	0	5-08	1-08	SPF No.2	none	419/0	--/--	119/0	--/--			
D	512 (1)	--	0	5-08	1-08	SPF No.2	none	268/0	--/--	88/0	--/--			
Factored Vertical Load in LC1 (plf), Max Factored Member Forces (lb), CSI, Max Unbraced Length (MUL)												LoadCases: 4		
	Member	Start	End	MaxC	MaxT	CSI (LC)	MUL (ft)	Member	Start	End	MaxC	MaxT	CSI (LC)	MUL (ft)
Top Ch.	A-B	-133.1	-133.1	6	0	0.04 (1)	10	B-F	-133.1	-133.1	394	0	0.19 (1)	6.25
	C-F	-133.1	-133.1	0	1	0.25 (1)	10	C-D	--	--	389	0	0.04 (1)	--
Bot Ch.	B-E	-17.5	-17.5	0	745	0.19 (4)	10	D-E	-17.5	-17.5	0	745	0.19 (4)	10
Webs	D-F	--	--	769	0	0.40 (1)	--							

Bracing Requirements

Top Chord: Rigid sheathing directly applied or 6.25 ft oc lateral restraint required.
Bottom Chord: Rigid Ceiling directly applied or 10 ft oc lateral restraint required.

Lumber (NLGA Grading Rules)

Chords
2x4 SPF 1650F 1.5E B1, W1
2x6 SPF 1650F 1.5E T1

Left Reinforcing Member: 2x4 SPF 1650F 1.5E

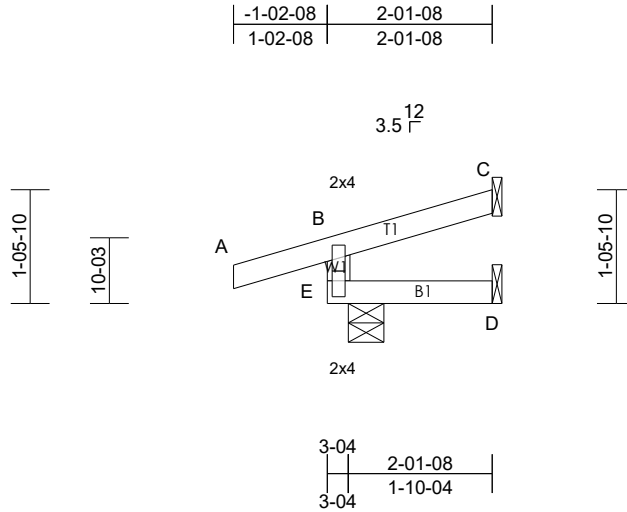
NOTES

- Specified Snow Load: $S = S_s(C_b) + S_r = 56.39 (0.55) + 8.35 = 39.37$ psf
- End Vertical(s) must be Sheathed or have Braces as Indicated in the Max. Unbraced Length Column of the Table Above
- Truss plate manufacturer is not responsible for quality control in the truss manufacturing plant. Dimensions, supports, and loadings specified by fabricator to be verified by building designer. All pitch breaks and perimeter corner joints must be laterally restrained. All lumber is dry (moisture content is less than 19%) at time of fabrication, unless otherwise specified

Job Name: B6138	Truss Name: J4A	Qty 3	Ply 1	Job Desc: 2454W Walls Truss Desc:	Drawing No.:
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Page: 1 of 1



Scale = 1:29.8

Plate Offsets (Joint: x, y): (E: 1-00, 2-07)

Total Weight = 3 x 7 = 21 lb

SPECIFIED LOADS		CODES / STANDARDS		DESIGN INFORMATION			DEFLECTIONS			PLATE INFORMATION			
Top ch. Snow	(psf)	Part 9 Div B NBCC 2015		SPACING: 24.00 in cc			Ceiling Type: Plaster / Gypsum			All plates are MT20 unless otherwise noted.			
Top ch. Dead	39.37	Residential		KS = 1.00 (Dry Service)			DESIGN (in)	LIMIT (in)	Placement Tolerance: 0.25 in				
Bot ch. Live	6.00	Application: Roof		KH = 1.10 (Load Sharing Member)			Vert(LL) L/999 (0.00)	L/360 (0.07)	Rotation Tolerance: 5°				
Bot ch. Dead	0.00			KD = 1.00 (Load Duration LC1)			Vert(TL) L/999 (0.00)	L/360 (0.07)	JSI Grip (max): 0.17 @ Joint E. Limit = 0.90				
Total Load	7.00	This design complies with:					Vert(DL) L/999 (0.00)	L/360 (0.07)	JSI Metal (max): 0.08 @ Joint B. Limit = 1.00				
	52.37	BCBC2018, NBC-2019AE,		CSI Top 0.12/1.00 A-B (1)			Horiz(TL) L/999 (0.00)	L/120 (0.21)					
		OBC2012(2019 Amendment),		CSI Bot 0.02/1.00 D-E (4)									
		TPIC2014, CSAO86-14		CSI Web 0 (-)									
				SSI 0.12/1.00 A-B (1)									
								</					

Max. Factored Reactions (lb), Bearing Information										Unfactored Reactions (lb)			
Support	Down (LC)	Uplift	Horiz	Input	Req'd	Br. Material	Br. Enhancer	Snow	Live	Dead	Wind		
E	326 (1)	--	0	5-08	4-12	SPF No.2	none	182/0	--/--	43/0	--/--		
C	141 (1)	--	0	1-08	1-08	None	none	84/0	--/--	13/0	--/--		
D	21 (4)	--	0	1-08	1-08	None	none	0/0	--/--	15/0	--/--		

Factored Vertical Load in LC1 (plf), Max Factored Member Forces (lb), CSI, Max Unbraced Length (MUL)										LoadCases: 5			
Member	Start	End	MaxC	MaxT	CSI (LC)	MUL (ft)	Member	Start	End	MaxC	MaxT	CSI (LC)	MUL (ft)
Top Ch.													
B-E	--	--	308	0	0.02 (1)	--	A-B	-133.1	-133.1	0	23	0.12 (1)	10
B-C	-133.1	-133.1	0	0	0.09 (1)	10							
Bot Ch.													
D-E	-17.5	-17.5	0	0	0.02 (4)	10							

Bracing Requirements

Top Chord: Rigid sheathing directly applied or 10 ft oc lateral restraint required.
Bottom Chord: Rigid Ceiling directly applied or 10 ft oc lateral restraint required.

Lumber (NLGA Grading Rules)

Chords
2x4 SPF 1650F 1.5E B1, W1, T1

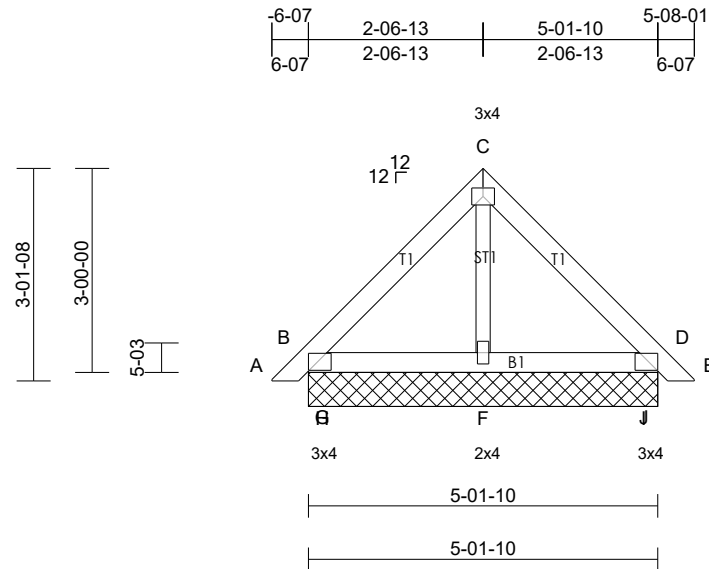
NOTES

- Specified Snow Load: $S = S_s(C_b) + S_r = 56.39 (0.55) + 8.35 = 39.37$ psf
- End Vertical(s) must be Sheathed or have Braces as Indicated in the Max. Unbraced Length Column of the Table Above
- Cantilever analysis has been considered in this design.
- See MiTek detail MSD2015-H for connection of truss at Joints C, D
- Truss plate manufacturer is not responsible for quality control in the truss manufacturing plant. Dimensions, supports, and loadings specified by fabricator to be verified by building designer. All pitch breaks and perimeter corner joints must be laterally restrained. All lumber is dry (moisture content is less than 19%) at time of fabrication, unless otherwise specified

Job Name: B6138	Truss Name: P1	Qty 33	Ply 1	Job Desc: 2454W Walls Truss Desc:	Drawing No.:
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Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Wed Jan 11 11:29:07
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Page: 1 of 1



Scale = 1:34

Plate Offsets (Joint: x, y): (B: 2-06, 1-08), (D: 2-06, 1-08)

Total Weight = 33 x 18 = 586 lb

SPECIFIED LOADS	CODES / STANDARDS	DESIGN INFORMATION	DEFLECTIONS	PLATE INFORMATION
Top ch. Snow (psf) 39.37 Top ch. Dead 6.00 Bot ch. Live 0.00 Bot ch. Dead 7.00 Total Load 52.37	Part 9 Div B NBCC 2015 Residential Application: Roof This design complies with: CBC2018, NBC-2019AE, OBC2012(2019 Amendment), TPIC2014, CSAO86-14	SPACING: 24.00 in cc KS = 1.00 (Dry Service) KH = 1.10 (Load Sharing Member) KD = 1.00 (Load Duration LC1) CSI Top 0.08/1.00 C-J (1) CSI Bot 0.09/1.00 F-I (1) CSI Web 0.01/1.00 C-F (1) SSI 0.26/1.00 D-I (1)	Ceiling Type: Plaster / Gypsum DESIGN (in) L/533 (0.00) LIMIT (in) L/120 (0.04)	All plates are MT20 unless otherwise noted. Placement Tolerance: 0.25 in Rotation Tolerance: 5 ° JSI Grip (max): 0.34 @ Joint D. Limit = 0.90 JSI Metal (max): 0.08 @ Joint D. Limit = 1.00 Plate Grip (psi) Shear (pli) Section (pli) MT20 650/371 1747/788 1987/1873

	Max. Factored Reactions (lb),			Bearing Information				Unfactored Reactions (lb)				
Support	Down (LC)	Uplift	Horiz	Input	Req'd	Br. Material	Br. Enhancer	Snow	Live	Dead	Wind	
B	327 (1)	--	0	5-01-10	1-08	SPF No.2	none	181/0	--/--	44/0	--/--	
D	327 (1)	--	0	5-01-10	1-08	SPF No.2	none	181/0	--/--	44/0	--/--	
F	237 (1)	--	0	5-01-10	1-08	SPF No.2	none	112/0	--/--	56/0	--/--	

Factored Vertical Load in LC1 (plf), Max Factored Member Forces (lb), CSI, Max Unbraced Length (MUL)										LoadCases: 4				
Member	Start	End	MaxC	MaxT	CSI (LC)	MUL (ft)	Member	Start	End	MaxC	MaxT	CSI (LC)	MUL (ft)	
Top Ch.	A-B	-133.1	-133.1	0	19	0.02 (1)	10	B-H	-133.1	-133.1	17	12	0.05 (1)	6.25
	C-H	-133.1	-133.1	142	0	0.08 (1)	6.25	C-J	-133.1	-133.1	142	0	0.08 (1)	6.25
	D-J	-133.1	-133.1	17	12	0.05 (1)	6.25	D-E	-133.1	-133.1	0	19	0.02 (1)	10
Bot Ch.	B-G	-17.5	-17.5	0	92	0.09 (1)	10	F-G	-17.5	-17.5	0	92	0.09 (1)	10
	F-I	-17.5	-17.5	0	92	0.09 (1)	10	D-I	-17.5	-17.5	0	92	0.09 (1)	10
Webs	C-F	--	--	96	0	0.01 (1)	--							

Bracing Requirements

Top Chord: Rigid sheathing directly applied or 6.25 ft oc lateral restraint required.
Bottom Chord: Rigid Ceiling directly applied or 10 ft oc lateral restraint required.

Lumber (NLGA Grading Rules)

Chords
2x3 SPF 1650F 1.5E ST1
2x4 SPF 1650F 1.5E B1, T1

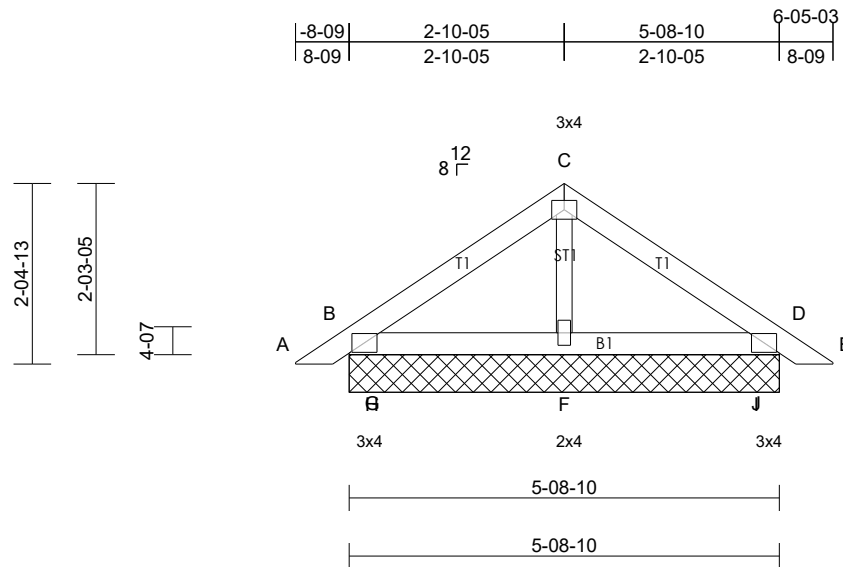
NOTES

- Specified Snow Load: $S = S_s(C_b) + S_r = 56.39 (0.55) + 8.35 = 39.37$ psf
- Truss plate manufacturer is not responsible for quality control in the truss manufacturing plant. Dimensions, supports, and loadings specified by fabricator to be verified by building designer. All pitch breaks and perimeter corner joints must be laterally restrained. All lumber is dry (moisture content is less than 19%) at time of fabrication, unless otherwise specified

Job Name: B6138	Truss Name: P2	Qty 25	Ply 1	Job Desc: 2454W Walls Truss Desc:	Drawing No.:
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Page: 1 of 1



Scale = 1:30.8

Total Weight = 25 x 18 = 442 lb

SPECIFIED LOADS	CODES / STANDARDS	DESIGN INFORMATION	DEFLECTIONS	PLATE INFORMATION
Top ch. Snow 39.37 Top ch. Dead 6.00 Bot ch. Live 0.00 Bot ch. Dead 7.00 Total Load 52.37	Part 9 Div B NBCC 2015 Residential Application: Roof This design complies with: CBC2018, NBC-2019AE, OBC2012(2019 Amendment), TPIC2014, CSAO86-14	SPACING: 24.00 in cc KS = 1.00 (Dry Service) KH = 1.10 (Load Sharing Member) KD = 1.00 (Load Duration LC1) CSI Top 0.10/1.00 C-H (1) CSI Bot 0.11/1.00 B-G (1) CSI Web 0.02/1.00 C-F (1) SSI 0.22/1.00 B-G (1)	Ceiling Type: Plaster / Gypsum Horiz(TL) DESIGN (in) L/770 (0.00) LIMIT (in) L/120 (0.06)	All plates are MT20 unless otherwise noted. Placement Tolerance: 0.25 in Rotation Tolerance: 5 ° JSI Grip (max): 0.29 @ Joint D. Limit = 0.90 JSI Metal (max): 0.07 @ Joint D. Limit = 1.00 Plate Grip (psi) 650/371 Shear (pli) 1747/788 Section (pli) 1987/1873

	Max. Factored Reactions (lb),			Bearing Information				Unfactored Reactions (lb)				
Support	Down (LC)	Uplift	Horiz	Input	Req'd	Brq. Material	Brq. Enhancer	Snow	Live	Dead	Wind	
B	344 (1)	--	0	5-08-10	1-08	SPF No.2	none	190/0	--/--	47/0	--/--	
D	344 (1)	--	0	5-08-10	1-08	SPF No.2	none	190/0	--/--	47/0	--/--	
F	344 (1)	--	0	5-08-10	1-08	SPF No.2	none	171/0	--/--	70/0	--/--	

Factored Vertical Load in LC1 (plf), Max Factored Member Forces (lb), CSI, Max Unbraced Length (MUL)										LoadCases: 4				
	Member	Start	End	MaxC	MaxT	CSI (LC)	MUL (ft)	Member	Start	End	MaxC	MaxT	CSI (LC)	MUL (ft)
Top Ch.	A-B	-133.1	-133.1	0	22	0.03 (1)	10	B-H	-133.1	-133.1	46	0	0.04 (1)	6.25
	C-H	-133.1	-133.1	125	0	0.10 (1)	6.25	C-J	-133.1	-133.1	125	0	0.10 (1)	6.25
	D-J	-133.1	-133.1	46	0	0.04 (1)	6.25	D-E	-133.1	-133.1	0	22	0.03 (1)	10
Bot Ch.	B-G	-17.5	-17.5	0	97	0.11 (1)	10	F-G	-17.5	-17.5	0	97	0.11 (1)	10
	F-I	-17.5	-17.5	0	97	0.11 (1)	10	D-I	-17.5	-17.5	0	97	0.11 (1)	10
Webs	C-F	--	--	181	0	0.02 (1)	--							

Bracing Requirements

Top Chord: Rigid sheathing directly applied or 6.25 ft oc lateral restraint required.
Bottom Chord: Rigid Ceiling directly applied or 10 ft oc lateral restraint required.

Lumber (NLGA Grading Rules)

Chords
2x3 SPF 1650F 1.5E ST1
2x4 SPF 1650F 1.5E B1, T1

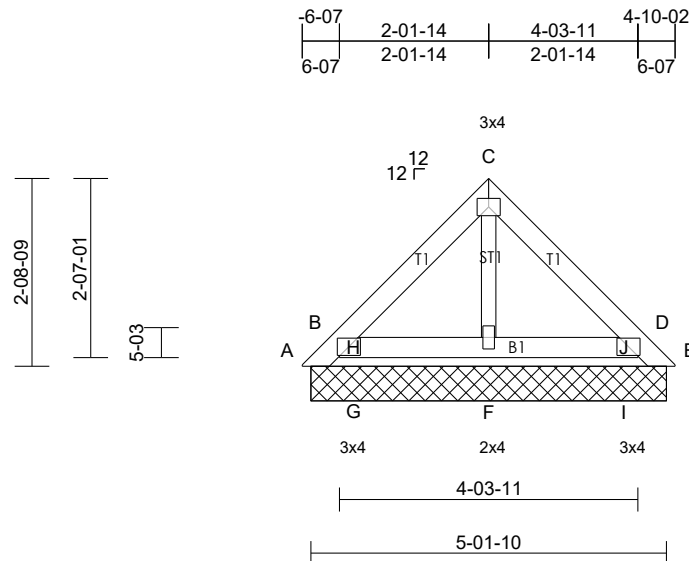
NOTES

- Specified Snow Load: $S = S_s(C_b) + S_r = 56.39 (0.55) + 8.35 = 39.37$ psf
- Truss plate manufacturer is not responsible for quality control in the truss manufacturing plant. Dimensions, supports, and loadings specified by fabricator to be verified by building designer. All pitch breaks and perimeter corner joints must be laterally restrained. All lumber is dry (moisture content is less than 19%) at time of fabrication, unless otherwise specified

Job Name: B6138	Truss Name: PG1	Qty 2	Ply 1	Job Desc: 2454W Walls Truss Desc:	Drawing No.:
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Page: 1 of 1



Scale = 1:33.4

Total Weight = 2 x 15 = 30 lb

SPECIFIED LOADS	CODES / STANDARDS	DESIGN INFORMATION	DEFLECTIONS	PLATE INFORMATION
Top ch. Snow (psf) 39.37 Top ch. Dead 6.00 Bot ch. Live 0.00 Bot ch. Dead 7.00 Total Load 52.37	Part 9 Div B NBCC 2015 Residential Application: Roof This design complies with: CBC2018, NBC-2019AE, OBC2012(2019 Amendment), TPIC2014, CSAO86-14	SPACING: 24.00 in cc KS = 1.00 (Dry Service) KH = 1.10 (Load Sharing Member) KD = 1.00 (Load Duration LC1) CSI Top 0.05/1.00 D-E (1) CSI Bot 0.03/1.00 B-G (1) CSI Web 0.01/1.00 C-F (1) SSI 0.10/1.00 D-I (1)	Ceiling Type: Plaster / Gypsum DESIGN (in) LIMIT (in)	All plates are MT20 unless otherwise noted. Placement Tolerance: 0.25 in Rotation Tolerance: 5 ° JSI Grip (max): 0.27 @ Joint D. Limit = 0.90 JSI Metal (max): 0.07 @ Joint D. Limit = 1.00 Plate Grip (psi) Shear (pli) Section (pli) MT20 650/371 1747/788 1987/1873

Max. Factored Reactions (lb),						Bearing Information		Unfactored Reactions (lb)					
Support	Down (LC)	Uplift	Horiz	Input	Req'd	Brq. Material	Brq. Enhancer	Snow	Live	Dead	Wind		
B	354 (1)	--	0	5-01-10	1-08	SPF No.2	none	192/0	--	53/0	--		
D	354 (1)	--	0	5-01-10	1-08	SPF No.2	none	192/0	--	53/0	--		
A	-11 (3)	-60	0	5-01-10	1-08	SPF No.2	none	0/-33	--	0/-8	--		
E	-11 (3)	-60	0	5-01-10	1-08	SPF No.2	none	0/-33	--	0/-8	--		
F	195 (1)	--	0	5-01-10	1-08	SPF No.2	none	92/0	--	46/0	--		

Factored Vertical Load in LC1 (plf), Max Factored Member Forces (lb), CSI, Max Unbraced Length (MUL)										LoadCases: 4				
Member	Start	End	MaxC	MaxT	CSI (LC)	MUL (ft)	Member	Start	End	MaxC	MaxT	CSI (LC)	MUL (ft)	
Top Ch.	A-B	-150.6	-150.6	0	59	0.05 (1)	10	B-H	-133.1	-133.1	104	0	0.05 (1)	6.25
	C-H	-133.1	-133.1	90	0	0.05 (1)	6.25	C-J	-133.1	-133.1	90	0	0.05 (1)	6.25
	D-J	-133.1	-133.1	104	0	0.05 (1)	6.25	D-E	-150.6	-150.6	0	59	0.05 (1)	10
Bot Ch.	B-G	-17.5	-17.5	0	54	0.03 (1)	10	F-G	-17.5	-17.5	0	54	0.03 (1)	10
	F-I	-17.5	-17.5	0	54	0.03 (1)	10	D-I	-17.5	-17.5	0	54	0.03 (1)	10
Webs	C-F	--	--	112	0	0.01 (1)	--							

Bracing Requirements

Top Chord: Rigid sheathing directly applied or 6.25 ft oc lateral restraint required.
Bottom Chord: Rigid Ceiling directly applied or 10 ft oc lateral restraint required.

Lumber (NLGA Grading Rules)

Chords
2x3 SPF 1650F 1.5E ST1
2x4 SPF 1650F 1.5E B1, T1

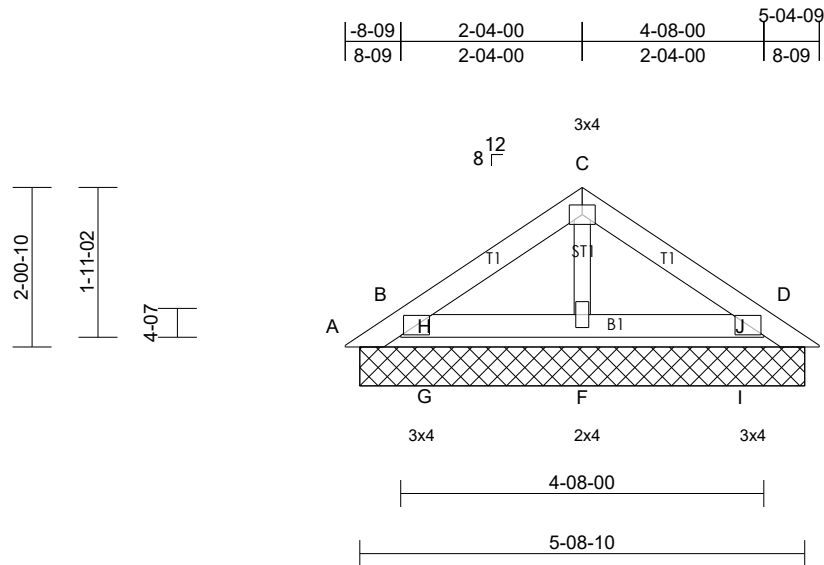
NOTES

- Specified Snow Load: $S = S_s(C_b) + S_r = 56.39 (0.55) + 8.35 = 39.37$ psf
- Adequate connection (by others) required at Joint(s) A, E for 60 lb factored uplift.
- Beveled plate or shim required to provide full bearing surface with truss chord at Joint(s): B, D, A, E, F
- Truss plate manufacturer is not responsible for quality control in the truss manufacturing plant. Dimensions, supports, and loadings specified by fabricator to be verified by building designer. All pitch breaks and perimeter corner joints must be laterally restrained. All lumber is dry (moisture content is less than 19%) at time of fabrication, unless otherwise specified

Job Name: B6138	Truss Name: PG2	Qty 1	Ply 1	Job Desc: 2454W Walls Truss Desc:	Drawing No.:
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Page: 1 of 1



Scale = 1:29.7

Total Weight = 1 x 15 = 15 lb

SPECIFIED LOADS	CODES / STANDARDS	DESIGN INFORMATION	DEFLECTIONS	PLATE INFORMATION
Top ch. Snow (psf) 39.37 Top ch. Dead 6.00 Bot ch. Live 0.00 Bot ch. Dead 7.00 Total Load 52.37	Part 9 Div B NBCC 2015 Residential Application: Roof This design complies with: BCBC2018, NBC-2019AE, OBC2012(2019 Amendment), TPIC2014, CSAO86-14	SPACING: 24.00 in cc KS = 1.00 (Dry Service) KH = 1.10 (Load Sharing Member) KD = 1.00 (Load Duration LC1) CSI Top 0.06/1.00 C-H (1) CSI Bot 0.04/1.00 B-G (1) CSI Web 0.02/1.00 C-F (1) SSI 0.10/1.00 C-H (1)	Ceiling Type: Plaster / Gypsum DESIGN (in) LIMIT (in)	All plates are MT20 unless otherwise noted. Placement Tolerance: 0.25 in Rotation Tolerance: 5 ° JSI Grip (max): 0.28 @ Joint B. Limit = 0.90 JSI Metal (max): 0.06 @ Joint C. Limit = 1.00 Plate Grip (psi) Shear (pli) Section (pli) MT20 650/371 1747/788 1987/1873

Max. Factored Reactions (lb),						Bearing Information		Unfactored Reactions (lb)					
Support	Down (LC)	Uplift	Horiz	Input	Req'd	Brq. Material	Brq. Enhancer	Snow	Live	Dead	Wind		
B	344 (1)	--	0	5-08-10	1-08	SPF No.2	none	184/0	--/--	54/0	--/--		
D	344 (1)	--	0	5-08-10	1-08	SPF No.2	none	184/0	--/--	54/0	--/--		
A	-4 (3)	-27	0	5-08-10	1-08	SPF No.2	none	0/-15	--/--	0/-4	--/--		
E	-4 (3)	-27	0	5-08-10	1-08	SPF No.2	none	0/-15	--/--	0/-4	--/--		
F	263 (1)	--	0	5-08-10	1-08	SPF No.2	none	130/0	--/--	54/0	--/--		

Factored Vertical Load in LC1 (plf), Max Factored Member Forces (lb), CSI, Max Unbraced Length (MUL)														LoadCases: 4			
Member	Start	End	MaxC	MaxT	CSI (LC)	MUL (ft)	Member	Start	End	MaxC	MaxT	CSI (LC)	MUL (ft)				
Top Ch.	A-B	-150.6	-150.6	0	38	0.06 (1)	10	B-H	-133.1	-133.1	99	0	0.06 (1)	6.25			
	C-H	-133.1	-133.1	73	0	0.06 (1)	6.25	C-J	-133.1	-133.1	73	0	0.06 (1)	6.25			
	D-J	-133.1	-133.1	99	0	0.06 (1)	6.25	D-E	-150.6	-150.6	0	38	0.06 (1)	10			
Bot Ch.	B-G	-17.5	-17.5	0	53	0.04 (1)	10	F-G	-17.5	-17.5	0	53	0.04 (1)	10			
	F-I	-17.5	-17.5	0	53	0.04 (1)	10	D-I	-17.5	-17.5	0	53	0.04 (1)	10			
Webs	C-F	--	--	166	0	0.02 (1)	--										

Bracing Requirements

Top Chord: Rigid sheathing directly applied or 6.25 ft oc lateral restraint required.
Bottom Chord: Rigid Ceiling directly applied or 10 ft oc lateral restraint required.

Lumber (NLGA Grading Rules)

Chords
2x3 SPF 1650F 1.5E ST1
2x4 SPF 1650F 1.5E B1, T1

NOTES

- Specified Snow Load: $S = S_s(C_b) + S_r = 56.39 (0.55) + 8.35 = 39.37$ psf
- Top Chord Bearing Joint(s) B, A, F: Gap between inside edge of support and first vertical or diagonal web not to exceed 0-08.
- Adequate connection (by others) required at Joint(s) A, E for 27 lb factored uplift.
- Beveled plate or shim required to provide full bearing surface with truss chord at Joint(s): B, D, A, E, F
- Truss plate manufacturer is not responsible for quality control in the truss manufacturing plant. Dimensions, supports, and loadings specified by fabricator to be verified by building designer. All pitch breaks and perimeter corner joints must be laterally restrained. All lumber is dry (moisture content is less than 19%) at time of fabrication, unless otherwise specified

Job Name: B6138	Truss Name: T1	Qty 3	Ply 1	Job Desc: 2454W Walls Truss Desc:	Drawing No.:
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Page: 1 of 1

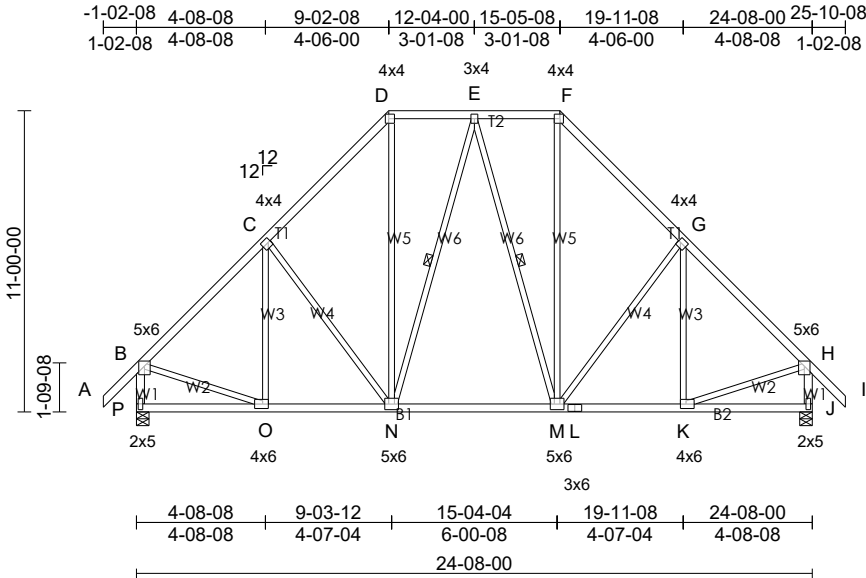


Plate Offsets (Joint: x, y): (B: 2-08, 2-04), (C: 1-00, 2-00), (D: 2-08, 2-00), (F: 2-08, 2-00), (G: 1-00, 2-00), (H: 2-08, 2-04), (K: 2-08, 2-00), (O: 2-08, 2-00)

Total Weight = 3 x 136 = 409 lb [F]

SPECIFIED LOADS		CODES / STANDARDS	DESIGN INFORMATION		DEFLECTIONS		PLATE INFORMATION	
Top ch. Snow	(psf)	Part 9 Div B NBCC 2015 Residential Application: Roof This design complies with: BCBC2018, NBC-2019AE, OBC2012(2019 Amendment), TPIC2014, CSAO86-14	SPACING: 24.00 in cc KS = 1.00 (Dry Service) KH = 1.10 (Load Sharing Member) KD = 1.00 (Load Duration LC1) CSI Top 0.33/1.00 G-H (1) CSI Bot 0.19/1.00 L-M (1) CSI Web 0.31/1.00 G-M (1) SSI 0.21/1.00 G-H (1)		Ceiling Type: Plaster / Gypsum DESIGN (in) Vert(LL) L/999 (0.04) Vert(TL) L/999 (0.09) Vert(DL) L/999 (0.03) Horiz(TL) L/999 (0.02) LIMIT (in) L/360 (0.82) L/360 (0.82) L/360 (0.82) L/296 (1.00)		All plates are MT20 unless otherwise noted. Placement Tolerance: 0.25 in Rotation Tolerance: 5 ° JSI Grip (max): 0.86 @ Joint H. Limit = 0.90 JSI Metal (max): 0.53 @ Joint B. Limit = 1.00 Plate Grip (psi) 650/371 Shear (pli) 1747/788 Section (pli) 1987/1873	
Top ch. Dead	39.37							
Bot ch. Live	6.00							
Bot ch. Dead	0.00							
Total Load	7.00							

Max. Factored Reactions (lb),						Bearing Information		Unfactored Reactions (lb)					
Support	Down (LC)	Uplift	Horiz	Input	Req'd	Bro. Material	Bro. Enhancer	Snow	Live	Dead	Wind		
P	2032 (1)	--	0	5-08	3-02	SPF No.2	none	1074/0	--/--	336/0	--/--		
J	2032 (1)	--	0	5-08	3-02	SPF No.2	none	1074/0	--/--	336/0	--/--		

Factored Vertical Load in LC1 (plf), Max Factored Member Forces (lb), CSI, Max Unbraced Length (MUL)										LoadCases: 4				
	Member	Start	End	MaxC	MaxT	CSI (LC)	MUL (ft)	Member	Start	End	MaxC	MaxT	CSI (LC)	MUL (ft)
Top Ch.	A-B	-133.1	-133.1	0	62	0.14 (1)	10	B-C	-133.1	-133.1	1660	0	0.33 (1)	5.38
	C-D	-133.1	-133.1	1479	0	0.32 (1)	5.62	D-E	-133.1	-133.1	1010	0	0.12 (1)	6.25
	E-F	-133.1	-133.1	1010	0	0.12 (1)	6.25	F-G	-133.1	-133.1	1479	0	0.32 (1)	5.62
	G-H	-133.1	-133.1	1660	0	0.33 (1)	5.38	H-I	-133.1	-133.1	0	62	0.14 (1)	10
	B-P	--	--	1996	0	0.14 (1)	--	H-J	--	--	1996	0	0.14 (1)	--
Bot Ch.	O-P	-17.5	-17.5	0	0	0.07 (4)	10	N-O	-17.5	-17.5	0	1210	0.19 (1)	10
	M-N	-17.5	-17.5	0	1079	0.17 (1)	10	L-M	-17.5	-17.5	0	1210	0.19 (1)	10
	K-L	-17.5	-17.5	0	1210	0.17 (1)	10	J-K	-17.5	-17.5	0	0	0.07 (4)	10
Webs	C-O	--	--	288	7	0.15 (1)	--	C-N	--	--	343	0	0.31 (1)	--
	D-N	--	--	0	612	0.10 (1)	--	F-M	--	--	0	612	0.10 (1)	--
	G-M	--	--	343	0	0.31 (1)	--	G-K	--	--	288	7	0.15 (1)	--
	B-O	--	--	0	1266	0.21 (1)	--	H-K	--	--	0	1266	0.21 (1)	--
	E-M	--	--	250	0	0.18 (1)	6.25	E-N	--	--	250	0	0.18 (1)	6.25

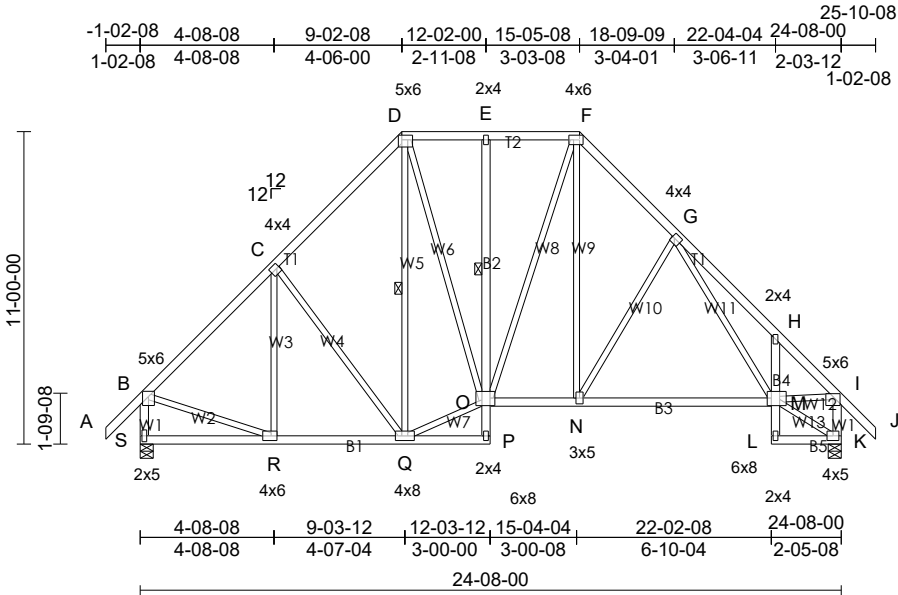
- Bracing Requirements**
Top Chord: Rigid sheathing directly applied or 5.38 ft oc lateral restraint required.
Bottom Chord: Rigid Ceiling directly applied or 10 ft oc lateral restraint required.
Web: One Lateral restraint required at 1/2 length of web E-M, E-N
- Lumber (NLGA Grading Rules)**
Chords
2x4 SPF 1650F 1.5E B1, B2, W1, T1, T2
Webs
2x3 SPF 1650F 1.5E All Webs

- NOTES
- Specified Snow Load: $S = S_s(C_b) + S_r = 56.39 (0.55) + 8.35 = 39.37$ psf
 - End Vertical(s) must be Sheathed or have Braces as Indicated in the Max. Unbraced Length Column of the Table Above
 - Truss plate manufacturer is not responsible for quality control in the truss manufacturing plant. Dimensions, supports, and loadings specified by fabricator to be verified by building designer. All pitch breaks and perimeter corner joints must be laterally restrained. All lumber is dry (moisture content is less than 19%) at time of fabrication, unless otherwise specified

Job Name: B6138	Truss Name: T1A	Qty 6	Ply 1	Job Desc: 2454W Walls Truss Desc:	Drawing No.:
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Page: 1 of 1

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Scale = 1:81.4

Plate Offsets (Joint: x, y): (B: 2-08, 2-04), (C: 1-00, 2-00), (D: 4-08, 2-00), (F: 4-08, 2-00), (G: 1-00, 2-00), (I: 3-00, 1-04), (M: 1-12, 3-04), (O: 2-00, 3-04), (R: 2-08, 2-00)	Total Weight = 6 x 151 = 906 lb [F]
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SPECIFIED LOADS	CODES / STANDARDS	DESIGN INFORMATION	DEFLECTIONS	PLATE INFORMATION
Top ch. Snow (psf) 39.37 Top ch. Dead 6.00 Bot ch. Live 0.00 Bot ch. Dead 7.00 Total Load 52.37	Part 9 Div B NBCC 2015 Residential Application: Roof This design complies with: BCBC2018, NBC-2019AE, OBC2012(2019 Amendment), TPIC2014, CSAO86-14	SPACING: 24.00 in cc KS = 1.00 (Dry Service) KH = 1.10 (Load Sharing Member) KD = 1.00 (Load Duration LC1) CSI Top 0.33/1.00 B-C (1) CSI Bot 0.25/1.00 M-N (1) CSI Web 0.35/1.00 G-N (1) SSI 0.21/1.00 E-F (1)	Ceiling Type: Plaster / Gypsum DESIGN (in) LIMIT (in) Vert(LL) L/999 (0.05) L/360 (0.82) Vert(TL) L/999 (0.14) L/360 (0.82) Vert(DL) L/999 (0.07) L/360 (0.82) Horiz(TL) L/999 (0.08) L/296 (1.00)	All plates are MT20 unless otherwise noted. Placement Tolerance: 0.25 in Rotation Tolerance: 5 ° JSI Grip (max): 0.90 @ Joint M. Limit = 0.90 JSI Metal (max): 0.80 @ Joint I. Limit = 1.00 Plate Grip (psi) Shear (pli) Section (pli) MT20 650/371 1747/788 1987/1873

	Max. Factored Reactions (lb),			Bearing Information				Unfactored Reactions (lb)				
Support	Down (LC)	Uplift	Horiz	Input	Req'd	Brq. Material	Brq. Enhancer	Snow	Live	Dead	Wind	
S	2055 (1)	--	0	5-08	3-03	SPF No.2	none	1074/0	--/--	355/0	--/--	
K	2055 (1)	--	0	5-08	2-04	SPF No.2	none	1074/0	--/--	355/0	--/--	

Factored Vertical Load in LC1 (plf), Max Factored Member Forces (lb), CSI, Max Unbraced Length (MUL)										LoadCases: 4				
	Member	Start	End	MaxC	MaxT	CSI (LC)	MUL (ft)	Member	Start	End	MaxC	MaxT	CSI (LC)	MUL (ft)
Top Ch.	A-B	-133.1	-133.1	0	62	0.14 (1)	10	B-C	-133.1	-133.1	1687	0	0.33 (1)	5.34
	C-D	-133.1	-133.1	1508	0	0.32 (1)	5.58	D-E	-140.6	-140.6	1261	0	0.13 (1)	2
	E-F	-140.6	-140.6	1263	0	0.14 (1)	2	F-G	-133.1	-133.1	1703	0	0.17 (1)	5.52
	G-H	-133.1	-133.1	2314	0	0.19 (1)	4.9	H-I	-133.1	-133.1	2313	0	0.08 (1)	5
	I-J	-133.1	-133.1	0	62	0.14 (1)	10	B-S	--	--	2020	0	0.14 (1)	--
	I-K	--	--	2017	0	0.14 (1)	--							
Bot Ch.	R-S	-17.5	-17.5	0	0	0.07 (4)	10	Q-R	-17.5	-17.5	0	1229	0.18 (1)	10
	P-Q	-17.5	-17.5	0	13	0.05 (4)	10	O-P	--	--	0	18	0.02 (1)	10
	E-O	--	--	507	0	0.05 (1)	6.25	N-O	-17.5	-17.5	0	1179	0.22 (1)	10
	M-N	-17.5	-17.5	0	1432	0.25 (1)	10	L-M	--	--	0	23	0.05 (1)	10
	H-M	--	--	392	0	0.04 (1)	--	K-L	-17.5	-17.5	0	31	0.02 (4)	10
Webs	C-R	--	--	291	8	0.15 (1)	--	C-Q	--	--	342	0	0.31 (1)	--
	D-Q	--	--	119	17	0.08 (1)	6.25	F-O	--	--	0	256	0.04 (1)	--
	F-N	--	--	0	573	0.09 (1)	--	B-R	--	--	0	1285	0.21 (1)	--
	K-M	--	--	36	0	0.00 (1)	--	I-M	--	--	0	1653	0.27 (1)	--
	G-N	--	--	520	0	0.35 (1)	--	G-M	--	--	0	430	0.07 (1)	--
	O-Q	--	--	0	1114	0.18 (1)	--	D-O	--	--	0	791	0.13 (1)	--

Bracing Requirements	
Top Chord:	Rigid sheathing directly applied or 2 ft oc lateral restraint required.
Bottom Chord:	Rigid Ceiling directly applied or 10 ft oc lateral restraint required.
Web:	One Lateral restraint required at 1/2 length of web E-O, D-Q

Lumber (NLGA Grading Rules)	
Chords	
2x4 SPF 1650F 1.5E	B1, B2, B3, B4, B5, W1, T1, T2
Webs	
2x3 SPF 1650F 1.5E	All Webs

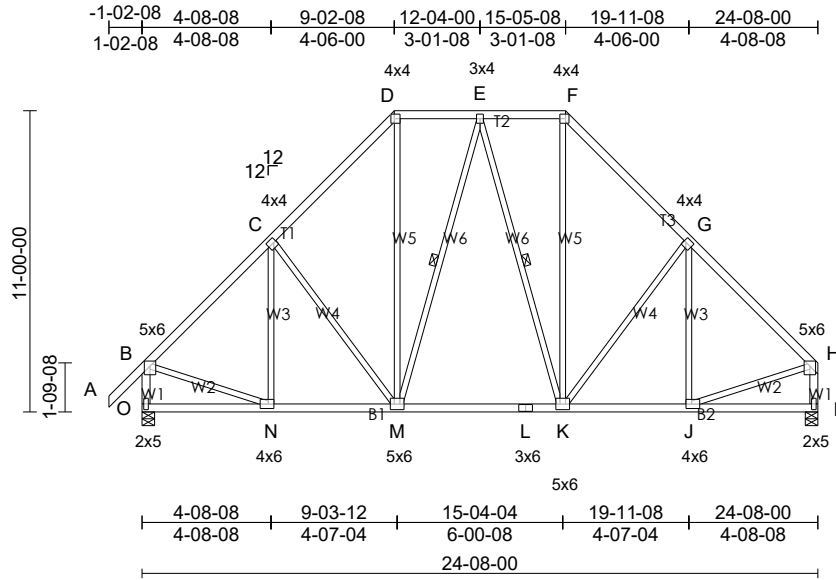
NOTES

- Loading in flat Section Based on Piggyback Truss with Slopes of 12 /12 and -12 /12 and Respective Heel Heights of 0-00 and 0-00 and an Additional Dead Load of 3.0 psf
- Specified Snow Load: S = Ss(Cb) + Sr = 56.39 (0.55) + 8.35 = 39.37 psf
- End Vertical(s) must be Sheathed or have Braces as Indicated in the Max. Unbraced Length Column of the Table Above
- Loading in top chord D-F section based on a minimum transverse pitch of 6 /12 (26.57 °)
- Truss plate manufacturer is not responsible for quality control in the truss manufacturing plant. Dimensions, supports, and loadings specified by fabricator to be verified by building designer. All pitch breaks and perimeter corner joints must be laterally restrained. All lumber is dry (moisture content is less than 19%) at time of fabrication, unless otherwise specified

Job Name: B6138	Truss Name: T1B	Qty 6	Ply 1	Job Desc: 2454W Walls Truss Desc:	Drawing No.:
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Scale = 1:84.5

Plate Offsets (Joint: x, y): (B: 2-08, 2-04), (C: 1-00, 2-00), (D: 2-08, 2-00), (F: 2-08, 2-00), (G: 1-00, 2-00), (H: 2-08, 2-04), (J: 2-08, 2-00), (N: 2-08, 2-00)

Total Weight = 6 x 134 = 806 lb [F]

SPECIFIED LOADS	CODES / STANDARDS	DESIGN INFORMATION	DEFLECTIONS	PLATE INFORMATION
Top ch. Snow 39.37 Top ch. Dead 6.00 Bot ch. Live 0.00 Bot ch. Dead 7.00 Total Load 52.37	Part 9 Div B NBCC 2015 Residential Application: Roof This design complies with: CBC2018, NBC-2019AE, OBC2012(2019 Amendment), TPIC2014, CSAO86-14	SPACING: 24.00 in cc KS = 1.00 (Dry Service) KH = 1.10 (Load Sharing Member) KD = 1.00 (Load Duration LC1) CSI Top 0.33/1.00 G-H (1) CSI Bot 0.19/1.00 M-N (1) CSI Web 0.31/1.00 G-K (1) SSI 0.21/1.00 B-C (1)	Ceiling Type: Plaster / Gypsum DESIGN (in) LIMIT (in) Vert(LL) L/999 (0.04) L/360 (0.82) Vert(TL) L/999 (0.09) L/360 (0.82) Vert(DL) L/999 (0.03) L/360 (0.82) Horiz(TL) L/999 (0.02) L/296 (1.00)	All plates are MT20 unless otherwise noted. Placement Tolerance: 0.25 in Rotation Tolerance: 5 ° JSI Grip (max): 0.87 @ Joint B. Limit = 0.90 JSI Metal (max): 0.54 @ Joint B. Limit = 1.00 Plate Grip (psi) Shear (pli) Section (pli) MT20 650/371 1747/788 1987/1873

NOTES

- Loading in flat Section Based on Piggyback Truss with Slopes of 12 /12 and -12 /12 and Respective Heel Heights of 0-00 and 0-00 and an Additional Dead Load of 3.0 psf
- Specified Snow Load: $S = S_s(C_b) + S_r = 56.39 (0.55) + 8.35 = 39.37$ psf
- End Vertical(s) must be Sheathed or have Braces as Indicated in the Max. Unbraced Length Column of the Table Above
- Loading in top chord D-F section based on a minimum transverse pitch of 6 /12 (26.57 °)
- Truss plate manufacturer is not responsible for quality control in the truss manufacturing plant. Dimensions, supports, and loadings specified by fabricator to be verified by building designer. All pitch breaks and perimeter corner joints must be laterally restrained. All lumber is dry (moisture content is less than 19%) at time of fabrication, unless otherwise specified

Bracing Requirements

- Top Chord: Rigid sheathing directly applied or 2 ft oc lateral restraint required.
- Bottom Chord: Rigid Ceiling directly applied or 10 ft oc lateral restraint required.
- Web: One Lateral restraint required at 1/2 length of web E-K, E-M

Lumber (NLGA Grading Rules)

Chords

2x4 SPF 1650F 1.5E B1, B2, W1, T1, T2, T3

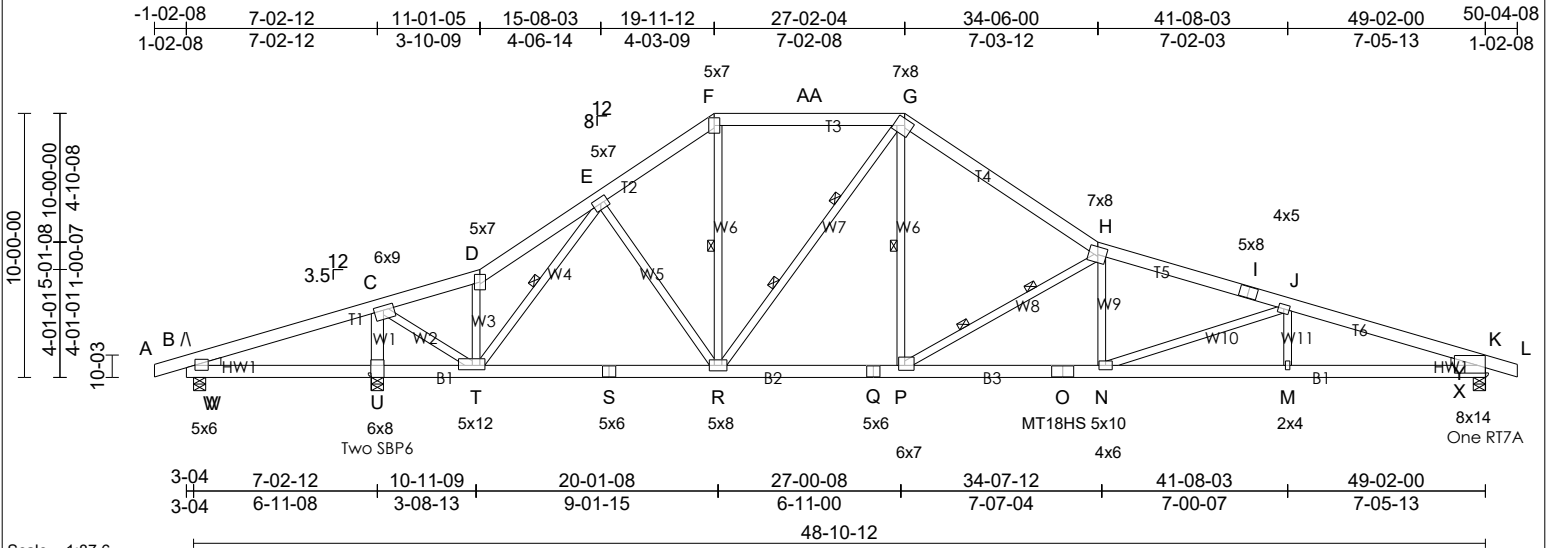
Webs

2x3 SPF 1650F 1.5E All Webs

Job Name:	Truss Name:	Qty	Ply	Job Desc:	2454W Walls	Drawing No.:
B6138	T2	7	1	Truss Desc:		

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Page: 1 of 2



Scale = 1:87.6

Plate Offsets (Joint: x, y): (B: 0-04, 2-04), (C: 4-04, 2-00), (G: 3-08, 2-12), (H: 3-12, 3-08), (K: 3-09, 3-08), (P: 2-12, 2-04), (T: 5-12, 2-00), (U: 3-00, Edge)

Total Weight = 7 x 280 = 1959 lb

SPECIFIED LOADS	CODES / STANDARDS	DESIGN INFORMATION	DEFLECTIONS	PLATE INFORMATION
Top ch. Snow Top ch. Dead Bot ch. Live Bot ch. Dead Total Load	(psf) 53.47 5.00 10.00 7.00 75.47 Part 4 Div. B NBCC 2015 Commercial Application: Roof Importance: Normal This design complies with: BCBC2018, NBC-2019AE, OBC2012(2019 Amendment), TPIC2014, CSAO86-14	SPACING: 24.00 in cc KS = 1.00 (Dry Service) KH = 1.10 (Load Sharing Member) KD = 1.00 (Load Duration LC1) CSI Top 0.97/1.00 J-Y (1) CSI Bot 0.90/1.00 M-X (1) CSI Web 0.94/1.00 J-N (3) SSI 0.75/1.00 K-X (1)	Ceiling Type: Plaster / Gypsum DESIGN (in) LIMIT (in) Vert(LL) L/999 (0.50) L/360 (1.40) Vert(TL) L/796 (0.63) L/180 (2.80) Vert(DL) L/999 (0.13) L/360 (1.40) Horiz(TL) L/999 (0.12) L/503 (1.00)	All plates are MT20 unless otherwise noted. Placement Tolerance: 0.25 in Rotation Tolerance: 5 ° JSI Grip (max): 0.90 @ Joint O. Limit = 0.90 JSI Metal (max): 0.94 @ Joint K. Limit = 1.00 Plate Grip (psi) Shear (pli) Section (pli) MT20 650/371 1747/788 1987/1873 MT18HS 586/403 2455/1382 3163/3004

Max. Factored Reactions (lb), Bearing Information							
Support	Down (LC)	Uplift	Horiz	Input	Req'd	Bro. Material	Bro. Enhancer
B	432 (9)	0	-226	5-08	1-08	SPF No.2	none
U	6193 (1)	-1066	0	5-08	5-08	SPF 2100F 1.8E	none
K	4390 (1)	-809	0	5-08	4-12	SPF No.2	none

Unfactored Reactions (lb)					
Support	Snow	Live	Wind	Dead	Wind(H)
B	340/0	0/0	83/0	0/0	161/-161
U	3119/0	576/0	0/-1197	751/0	0/0
K	2216/0	407/0	6/-860	527/0	0/0

Factored Vertical Load in LC1 (plf), Max Factored Member Forces (lb), CSI, Max Unbraced Length (MUL)												LoadCases: 18			
	Member	Start	End	MaxC	MaxT	CSI (LC)	MUL (ft)		Member	Start	End	MaxC	MaxT	CSI (LC)	MUL (ft)
Top Ch.	A-B	-172.9	-172.9	0	0	0.07 (2)	10		B-W	-172.9	-172.9	603	2445	0.29 (1)	6.25
	C-W	-172.9	-172.9	454	2278	0.63 (1)	6.25		C-D	-172.9	-172.9	2425	312	0.47 (1)	5.24
	D-E	-160.4	-160.4	2738	484	0.21 (2)	5.47		E-F	-160.4	-160.4	4261	796	0.22 (2)	4.6
	F-AA	-172.9	-172.9	3525	709	0.59 (1)	2		G-AA	-172.9	-172.9	3525	709	0.59 (1)	2
	G-H	-160.4	-160.4	5157	933	0.75 (3)	3.74		H-I	-172.9	-172.9	8731	1533	0.74 (1)	2.9
	I-J	-172.9	-172.9	8731	1533	0.47 (1)	2.9		J-Y	-172.9	-172.9	10188	1853	0.97 (1)	2.27
	K-Y	-172.9	-172.9	11033	1899	0.83 (1)	2.09		K-L	-172.9	-172.9	0	0	0.07 (3)	10
Bot Ch.	B-V	-37.5	-37.5	2134	671	0.33 (1)	6.15		U-V	-37.5	-37.5	2134	671	0.33 (1)	6.15
	T-U	-37.5	-37.5	2134	671	0.30 (1)	6.2		S-T	-37.5	-37.5	486	3504	0.26 (1)	6.25
	R-S	-37.5	-37.5	486	3504	0.28 (1)	6.25		Q-R	-37.5	-37.5	368	4332	0.32 (1)	6.25
	P-Q	-37.5	-37.5	368	4332	0.23 (1)	6.25		O-P	-37.5	-37.5	1240	8347	0.45 (1)	6.25
	N-O	-37.5	-37.5	1240	8347	0.48 (1)	6.25		M-N	-37.5	-37.5	1677	9739	0.70 (1)	6.25
	M-X	-37.5	-37.5	1677	9739	0.90 (1)	6.25		K-X	-37.5	-37.5	1677	9739	0.90 (1)	6.25
Webs	D-T	--	--	1263	313	0.14 (1)	--		F-R	--	--	304	1608	0.19 (3)	6.25
	G-R	--	--	1804	377	0.42 (3)	5.58		G-P	--	--	492	2759	0.32 (3)	6.25
	H-P	--	--	4812	1060	0.64 (3)	3.71		H-N	--	--	143	968	0.11 (3)	--
	J-N	--	--	1616	585	0.94 (3)	--		J-M	--	--	256	202	0.03 (17)	--
	C-U	--	--	5527	988	0.27 (1)	--		C-T	--	--	734	5284	0.62 (1)	--
	E-R	--	--	572	274	0.38 (9)	--		E-T	--	--	2052	361	0.46 (1)	5.31

Bracing Requirements

Top Chord: Rigid sheathing directly applied or 2 ft oc lateral restraint required.
Bottom Chord: Rigid Ceiling directly applied or 6.15 ft oc lateral restraint required.
Web: One Lateral restraint required at 1/2 length of web F-R, G-P, E-T
Two Lateral restraints required at 1/3 length of web G-R, H-P

Lumber (NLGA Grading Rules)

Chords

2x6 SPF 1650F 1.5E T1, T2, T3, T4, T5, T6
2x6 SPF 2100F 1.8E B1, B3, B2

Webs

2x4 SPF 1650F 1.5E W5, W10, W11, W2, W3, W4, W6, W7, W8, W9
2x6 SPF 1650F 1.5E W1
2x4 Left Wedge
2x4 Right Wedge

NOTES

- Importance Factors: Snow = 1.00, Wind = 1.00.
- Overhang not to be altered or cut off
- Loading in flat Section Based on Piggyback Truss with Slopes of 8 /12 and -8 /12 and Respective Heel Heights of 0-00 and 0-00 and an Additional Dead Load of 5.0 psf
- Specified Snow Load: S = Is (Ss(CbCwCsCa) + Sr) = 1.00 (56.39 (0.80) + 8.35) = 53.47 psf. Cb = 0.80, Cw = 1.00, Cs = 1.00, Ca = 1.00.
- Wind loading based on Main Wind Force Resisting System, Open Terrain, h = 40-00-00, q = 8.15 psf. Internal wind pressure based on Category 2 openings. Truss to be located at least 0-00 away from end wall. Truss uplift is based on top and bottom chord dead loads of 5.00 psf and 5.00 psf respectively.

Job Name:	Truss Name:	Qty	Ply	Job Desc: 2454W Walls	Drawing No.:
B6138	T2	7	1	Truss Desc:	

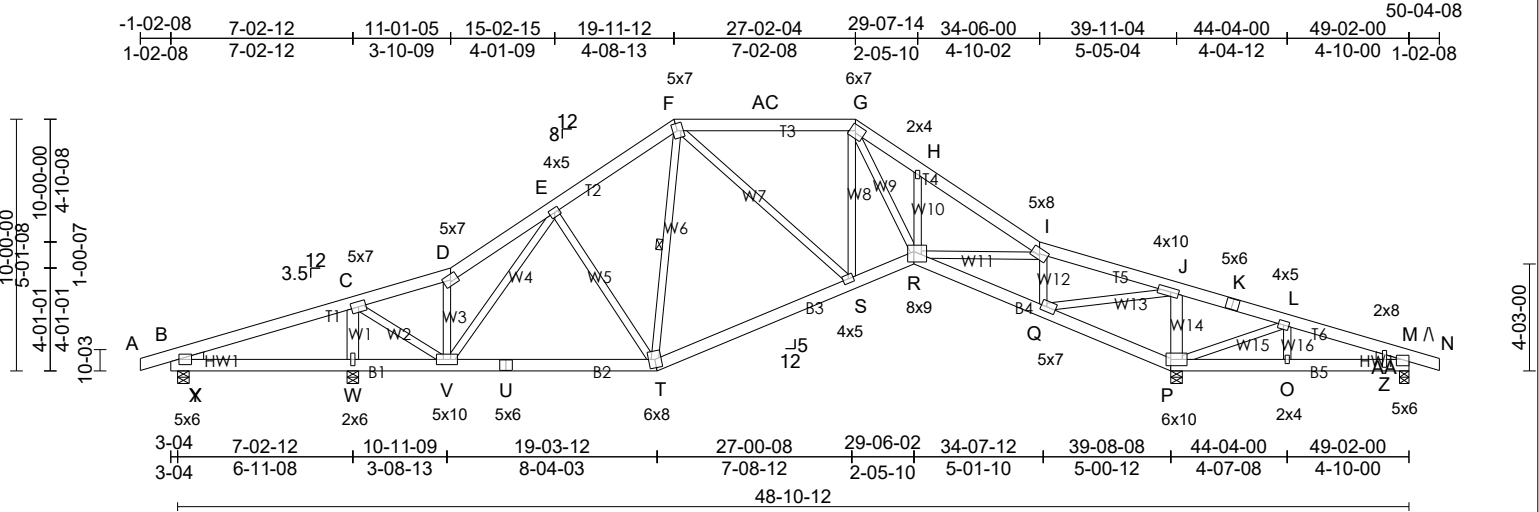
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Page: 2 of 2

- 6. Truss has been checked for unbalanced loading as per NBCC 4.1.6.2.(8)
- 7. Loading in top chord F-G section based on a transverse pitch of 6 /12 (26.57 °)
- 8. One RT7A MiTek connector(s) recommended to connect truss for uplift at joint(s) K. This connection is for uplift only and does not consider lateral forces.
- 9. Two SBP6 MiTek connector(s) recommended to connect truss for uplift at joint(s) U. This connection is for uplift only and does not consider lateral forces.
- 10. Adequate connection (by others) required at Joint(s) B for -226 lb factored horizontal reaction
- 11. Truss plate manufacturer is not responsible for quality control in the truss manufacturing plant. Dimensions, supports, and loadings specified by fabricator to be verified by building designer. All pitch breaks and perimeter corner joints must be laterally restrained. All lumber is dry (moisture content is less than 19%) at time of fabrication, unless otherwise specified

Job Name:	Truss Name:	Qty	Ply	Job Desc:	2454W Walls	Drawing No.:
B6138	T2A	4	1	Truss Desc:		

Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Wed Jan 11 11:29:09 Page: 1 of 1
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Scale = 1:91.9	Plate Offsets (Joint: x, y): (B: 0-04, 2-08), (F: 2-04, 3-08), (G: 4-08, 2-12), (J: 3-12, 2-00), (M: 0-00, 1-15), (M: 10-10, 2-11), (P: 7-12, 3-00), (Q: 2-12, 2-04), (R: 3-00, 5-00)	Total Weight = 4 x 286 = 1142 lb [F]
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SPECIFIED LOADS	CODES / STANDARDS	DESIGN INFORMATION	DEFLECTIONS	PLATE INFORMATION
Top ch. Snow (psf) 39.37 Top ch. Dead 6.00 Bot ch. Live 0.00 Bot ch. Dead 7.00 Total Load 52.37	Part 9 Div B NBCC 2015 Residential Application: Roof This design complies with: BCBC2018, NBC-2019AE, OBC2012(2019 Amendment), TPIC2014, CSAO86-14	SPACING: 24.00 in cc KS = 1.00 (Dry Service) KH = 1.10 (Load Sharing Member) KD = 1.00 (Load Duration LC1) CSI Top 0.43/1.00 F-AC (1) CSI Bot 0.22/1.00 R-S (1) CSI Web 0.46/1.00 J-Q (1) SSI 0.31/1.00 C-Y (1)	Ceiling Type: Plaster / Gypsum DESIGN (in) LIMIT (in) Vert(LL) L/999 (0.14) L/360 (1.08) Vert(TL) L/999 (0.23) L/360 (1.08) Vert(DL) L/999 (0.06) L/360 (1.08) Horiz(TL) L/999 (0.10) L/389 (1.00)	All plates are MT20 unless otherwise noted. Placement Tolerance: 0.25 in Rotation Tolerance: 5 ° JSI Grip (max): 0.89 @ Joint Q. Limit = 0.90 JSI Metal (max): 0.89 @ Joint Q. Limit = 1.00 Plate Grip (psi) Shear (pli) Section (pli) MT20 650/371 1747/788 1987/1873

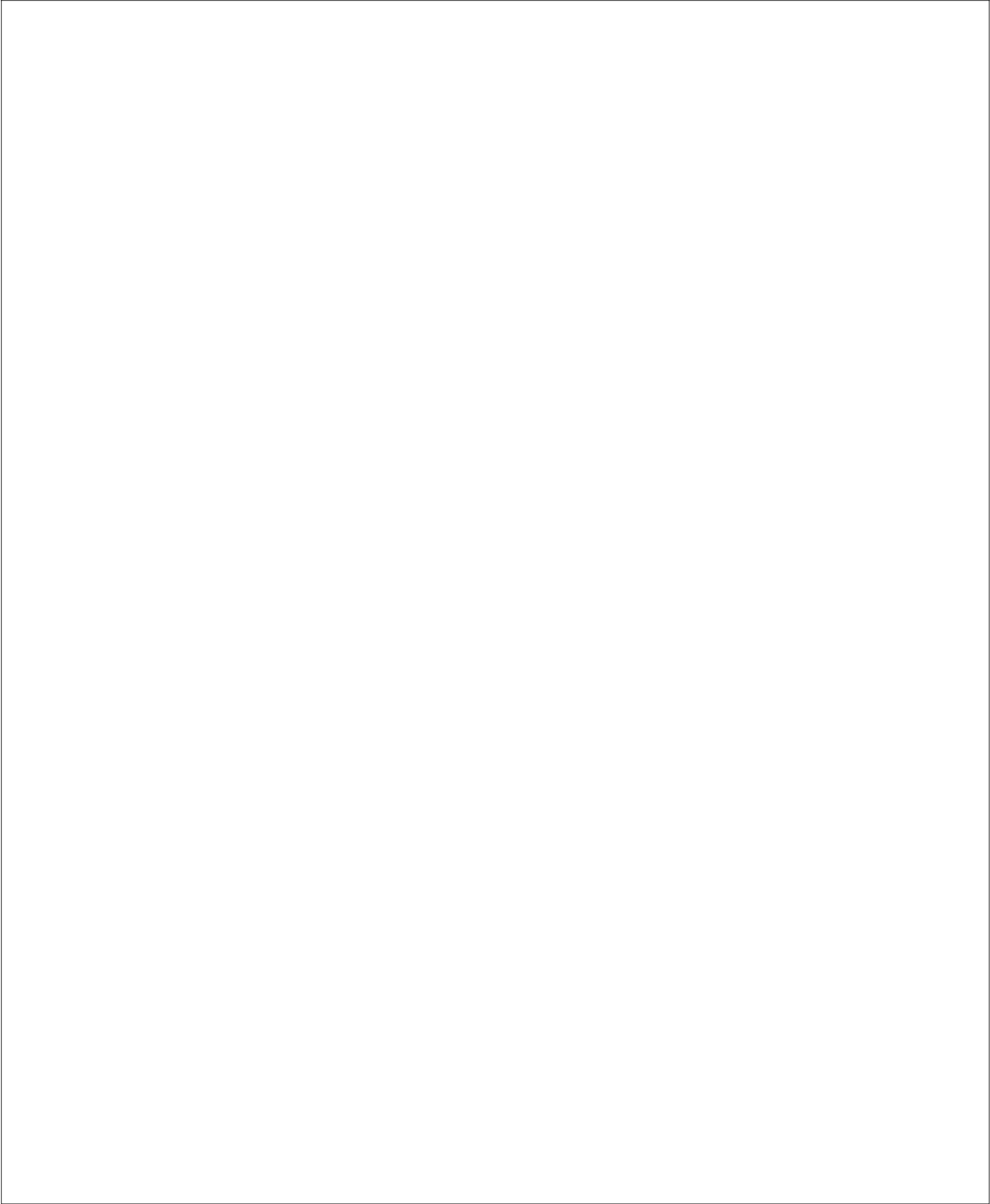
Max. Factored Reactions (lb), Bearing Information										Unfactored Reactions (lb)			
Support	Down (LC)	Uplift	Horiz	Input	Req'd	Brq. Material	Brq. Enhancer	Snow	Live	Dead	Wind		
B	347 (1)	--	0	5-08	1-08	SPF No.2	none	200/0	--/--	37/0	--/--		
W	3209 (1)	--	0	5-08	4-11	SPF No.2	none	1652/0	--/--	585/0	--/--		
P	4242 (1)	--	0	5-08	4-10	SPF No.2	none	2220/0	--/--	729/0	--/--		
M	0 (2)	0	0	4-08	1-08	SPF No.2	none	0/0	--/--	0/0	--/--		
Factored Vertical Load in LC1 (plf), Max Factored Member Forces (lb), CSI, Max Unbraced Length (MUL)													
LoadCases: 4													
Member	Start	End	MaxC	MaxT	CSI (LC)	MUL (ft)	Member	Start	End	MaxC	MaxT	CSI (LC)	MUL (ft)
Top Ch.							B-Y	-133.1	-133.1	0	748	0.09 (1)	10
A-B	-133.1	-133.1	0	0	0.04 (1)	10	C-D	-133.1	-133.1	1470	0	0.24 (1)	6.25
C-Y	-133.1	-133.1	0	715	0.36 (1)	10	E-F	-133.1	-133.1	1893	0	0.12 (1)	6.25
D-E	-133.1	-133.1	1639	0	0.12 (1)	6.25	G-AC	-140.6	-140.6	2096	0	0.43 (1)	2
F-AC	-140.6	-140.6	2096	0	0.43 (1)	2	H-I	-133.1	-133.1	3590	0	0.16 (1)	4.96
G-H	-133.1	-133.1	3596	0	0.06 (1)	5.05	J-K	-133.1	-133.1	0	2606	0.41 (1)	10
I-J	-133.1	-133.1	1324	0	0.17 (1)	6.25	L-AA	-133.1	-133.1	0	1248	0.22 (1)	10
K-L	-133.1	-133.1	0	2606	0.32 (1)	10	M-N	-133.1	-133.1	0	0	0.04 (1)	10
M-AA	-133.1	-133.1	0	1313	0.18 (1)	10							
Bot Ch.							W-X	-17.5	-17.5	655	0	0.16 (1)	6.25
B-X	-17.5	-17.5	655	0	0.16 (1)	6.25	U-V	-17.5	-17.5	0	1750	0.18 (1)	10
V-W	-17.5	-17.5	655	0	0.13 (1)	6.25	S-T	-17.5	-17.5	0	1697	0.18 (1)	10
T-U	-17.5	-17.5	0	1750	0.20 (1)	10	Q-R	-17.5	-17.5	0	1501	0.14 (1)	10
R-S	-17.5	-17.5	0	2267	0.22 (1)	10	O-P	-17.5	-17.5	1167	0	0.06 (1)	6.25
P-Q	-17.5	-17.5	2909	0	0.04 (1)	5.49	M-Z	-17.5	-17.5	1167	0	0.10 (1)	6.25
O-Z	-17.5	-17.5	1167	0	0.10 (1)	6.25							
Webs							G-S	--	--	559	0	0.20 (1)	--
D-V	--	--	823	0	0.09 (1)	--	I-R	--	--	0	1624	0.19 (1)	--
G-R	--	--	0	2100	0.24 (1)	--	J-Q	--	--	0	3994	0.46 (1)	--
I-Q	--	--	2320	0	0.18 (1)	--	L-P	--	--	1418	0	0.25 (1)	--
J-P	--	--	2577	0	0.15 (1)	--	C-V	--	--	0	2431	0.28 (1)	--
C-W	--	--	2893	0	0.14 (1)	--	L-O	--	--	0	270	0.03 (1)	--
H-R	--	--	566	0	0.06 (1)	--	F-T	--	--	203	0	0.07 (1)	6.25
E-T	--	--	383	0	0.21 (1)	--	F-S	--	--	0	721	0.08 (1)	--
E-V	--	--	622	0	0.37 (1)	--							

Bracing Requirements	
Top Chord:	Rigid sheathing directly applied or 2 ft oc lateral restraint required.
Bottom Chord:	Rigid Ceiling directly applied or 6.25 ft oc lateral restraint required at B-V, M-P. Rigid Ceiling directly applied or 5.49 ft oc lateral restraint required at T-V, R-T, Q-R, P-Q.
Web:	One Lateral restraint required at 1/2 length of web F-T

Lumber (NLGA Grading Rules)	
Chords	
2x6 SPF 1650F 1.5E	B1, B3, B4, B2, T1, T2, T3, T4, T5, T6
2x6 SPF 2100F 1.8E	B5
Webs	
2x4 SPF 1650F 1.5E	W10, W11, W12, W13, W15, W2, W16, W7, W5, W6, W4, W3, W8, W9
2x6 SPF 1650F 1.5E	W14, W1
2x4 Left Wedge	
2x4 Right Wedge	

- NOTES**
- Overhang not to be altered or cut off
 - Loading in flat Section Based on Piggyback Truss with Slopes of 8 / 12 and -8 / 12 and Respective Heel Heights of 0-00 and 0-00 and an Additional Dead Load of 3.0 psf
 - Specified Snow Load: S = Ss(Cb) + Sr = 56.39 (0.55) + 8.35 = 39.37 psf
 - Loading in top chord F-G section based on a minimum transverse pitch of 6 / 12 (26.57 °)
 - Truss plate manufacturer is not responsible for quality control in the truss manufacturing plant. Dimensions, supports, and loadings specified by fabricator to be verified by building designer. All pitch breaks and perimeter corner joints must be laterally restrained. All lumber is dry (moisture content is less than 19%) at time of fabrication, unless otherwise specified

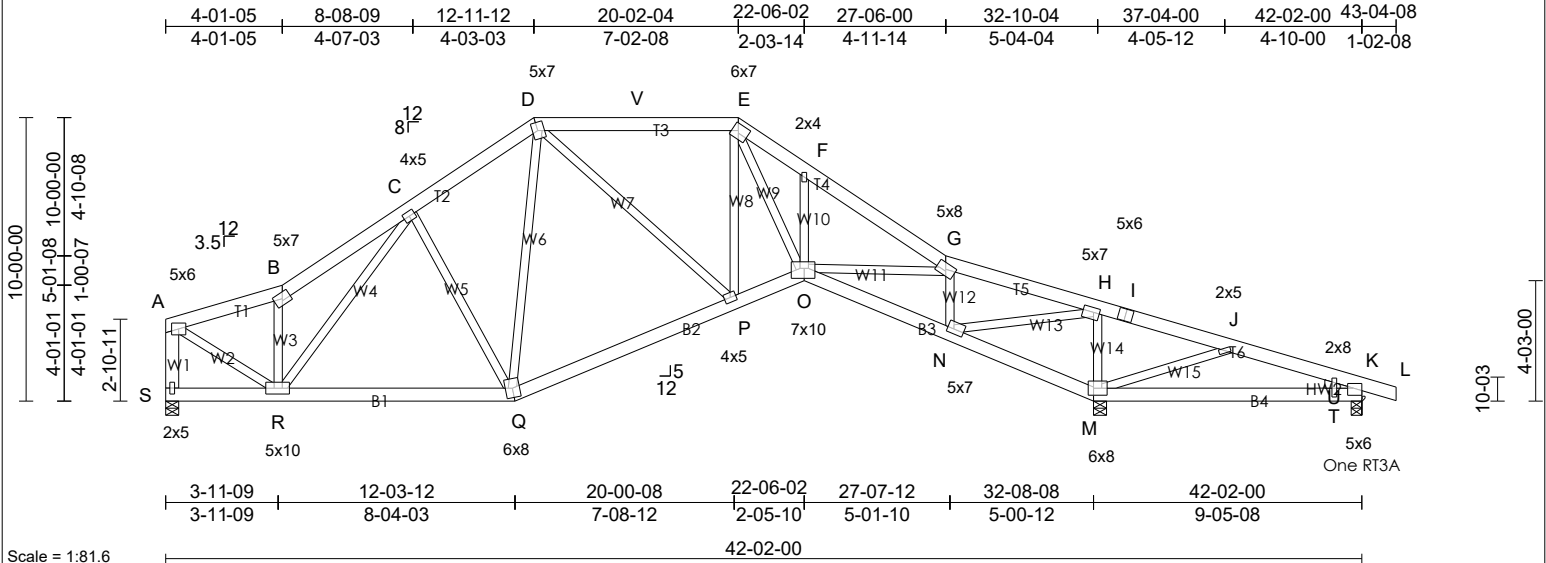
Job Name:	Truss Name:	Qty	Ply	Job Desc: 2454W Walls	Drawing No.:
B6138	T2A	4	1	Truss Desc:	



Job Name: B6138	Truss Name: T3	Qty 5	Ply 1	Job Desc: 2454W Walls Truss Desc:	Drawing No.:
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Page: 1 of 1



Scale = 1:81.6	42-02-00	Total Weight = 5 x 254 = 1272 lb [F]
Plate Offsets (Joint: x, y): (D: 2-04, 3-08), (E: 4-08, 2-12), (H: 2-08, 2-00), (K: Edge, 1-15), (K: 10-10, 2-11), (M: 5-12, 3-00), (N: 2-12, 2-00), (O: 4-08, 4-04), (R: 3-08, 2-08)		

SPECIFIED LOADS	CODES / STANDARDS	DESIGN INFORMATION	DEFLECTIONS	PLATE INFORMATION
Top ch. Snow (psf) 39.37 Top ch. Dead 6.00 Bot ch. Live 0.00 Bot ch. Dead 7.00 Total Load 52.37	Part 9 Div B NBCC 2015 Residential Application: Roof This design complies with: BCBC2018, NBC-2019AE, OBC2012(2019 Amendment), TPIC2014, CSAO86-14	SPACING: 24.00 in cc KS = 1.00 (Dry Service) KH = 1.10 (Load Sharing Member) KD = 1.00 (Load Duration LC1) CSI Top 0.45/1.00 I-J (1) CSI Bot 0.23/1.00 O-P (1) CSI Web 0.48/1.00 H-N (1) SSI 0.33/1.00 K-U (1)	Ceiling Type: Plaster / Gypsum DESIGN (in) LIMIT (in) Vert(LL) L/999 (0.14) L/360 (1.09) Vert(TL) L/999 (0.24) L/360 (1.09) Vert(DL) L/999 (0.06) L/360 (1.09) Horiz(TL) L/999 (0.11) L/392 (1.00)	All plates are MT20 unless otherwise noted. Placement Tolerance: 0.25 in Rotation Tolerance: 5 ° JSI Grip (max): 0.89 @ Joint O. Limit = 0.90 JSI Metal (max): 0.92 @ Joint N. Limit = 1.00 Plate Grip (psi) Shear (pli) Section (pli) MT20 650/371 1747/788 1987/1873

	Max. Factored Reactions (lb),				Bearing Information			Unfactored Reactions (lb)						
Support	Down (LC)	Uplift	Horiz	Input	Req'd	Brq. Material	Brq. Enhancer	Snow	Live	Dead	Wind			
S	2206 (1)	--	0	5-08	2-06	SPF No.2	none	1138/0	--/--	399/0	--/--			
M	4465 (1)	--	0	5-08	5-00	SPF No.2	none	2325/0	--/--	782/0	--/--			
K	-33 (3)	-98	0	4-08	1-08	SPF No.2	none	0/-43	--/--	0/-26	--/--			
Factored Vertical Load in LC1 (plf), Max Factored Member Forces (lb), CSI, Max Unbraced Length (MUL)												LoadCases: 4		
	Member	Start	End	MaxC	MaxT	CSI (LC)	MUL (ft)	Member	Start	End	MaxC	MaxT	CSI (LC)	MUL (ft)
Top Ch.	A-B	-133.1	-133.1	2209	0	0.11 (1)	6	B-C	-133.1	-133.1	2572	0	0.13 (1)	5.65
	C-D	-133.1	-133.1	2118	0	0.12 (1)	6.07	D-V	-140.6	-140.6	2203	0	0.43 (1)	2
	E-V	-140.6	-140.6	2203	0	0.43 (1)	2	E-F	-133.1	-133.1	3730	0	0.07 (1)	4.97
	F-G	-133.1	-133.1	3690	0	0.17 (1)	4.89	G-H	-133.1	-133.1	1201	0	0.15 (1)	6.25
	H-I	-133.1	-133.1	0	2926	0.41 (1)	10	I-J	-133.1	-133.1	0	2926	0.45 (1)	10
	J-U	-133.1	-133.1	0	1666	0.40 (1)	10	K-U	-133.1	-133.1	0	1500	0.38 (1)	10
	K-L	-133.1	-133.1	0	0	0.04 (1)	10	A-S	--	--	2180	0	0.12 (1)	--
Bot Ch.	R-S	-17.5	-17.5	0	0	0.07 (4)	10	Q-R	-17.5	-17.5	0	2067	0.22 (1)	10
	P-Q	-17.5	-17.5	0	1878	0.19 (1)	10	O-P	-17.5	-17.5	0	2380	0.23 (1)	10
	N-O	-17.5	-17.5	0	1382	0.13 (1)	10	M-N	-17.5	-17.5	3186	0	0.05 (1)	5.3
	M-T	-17.5	-17.5	1521	0	0.10 (1)	6.25	K-T	-17.5	-17.5	1521	0	0.04 (4)	6.25
Webs	B-R	--	--	1335	0	0.15 (1)	--	E-P	--	--	476	0	0.17 (1)	--
	E-O	--	--	0	2108	0.25 (1)	--	G-O	--	--	0	1818	0.21 (1)	--
	G-N	--	--	2436	0	0.19 (1)	--	H-N	--	--	0	4141	0.48 (1)	--
	H-M	--	--	2623	0	0.24 (1)	--	J-M	--	--	1381	0	0.30 (1)	--
	A-R	--	--	0	2488	0.29 (1)	--	F-O	--	--	589	0	0.07 (1)	--
	D-P	--	--	0	638	0.07 (1)	--	C-R	--	--	0	192	0.02 (1)	--
	D-Q	--	--	0	49	0.01 (4)	--	C-Q	--	--	693	0	0.39 (1)	--

Bracing Requirements

Top Chord: Rigid sheathing directly applied or 2 ft oc lateral restraint required.

Bottom Chord: Rigid Ceiling directly applied or 5.3 ft oc lateral restraint required.

Lumber (NLGA Grading Rules)

Chords
2x6 SPF 1650F 1.5E B1, B2, B3, B4, W1, T1, T2, T3, T4, T5, T6

Webs
2x4 SPF 1650F 1.5E All Webs
2x4 Right Wedge

- NOTES**
- Loading in flat Section Based on Piggyback Truss with Slopes of 8 /12 and -8 /12 and Respective Heel Heights of 0-00 and 0-00 and an Additional Dead Load of 3.0 psf
 - Specified Snow Load: S = Ss(Cb) + Sr = 56.39 (0.55) + 8.35 = 39.37 psf
 - End Vertical(s) must be Sheathed or have Braces as Indicated in the Max. Unbraced Length Column of the Table Above
 - Loading in top chord D-E section based on a minimum transverse pitch of 8 /12 (33.69 °)
 - One RT3A MiTek connector(s) recommended to connect truss for uplift at joint(s) K. This connection is for uplift only and does not consider lateral forces.
 - Truss plate manufacturer is not responsible for quality control in the truss manufacturing plant. Dimensions, supports, and loadings specified by fabricator to be verified by building designer. All pitch breaks and perimeter corner joints must be laterally restrained. All lumber is dry (moisture content is less than 19%) at time of fabrication, unless otherwise specified

Job Name:	Truss Name:	Qty	Ply	Job Desc:	2454W Walls	Drawing No.:
B6138	T3A	1	1	Truss Desc:		

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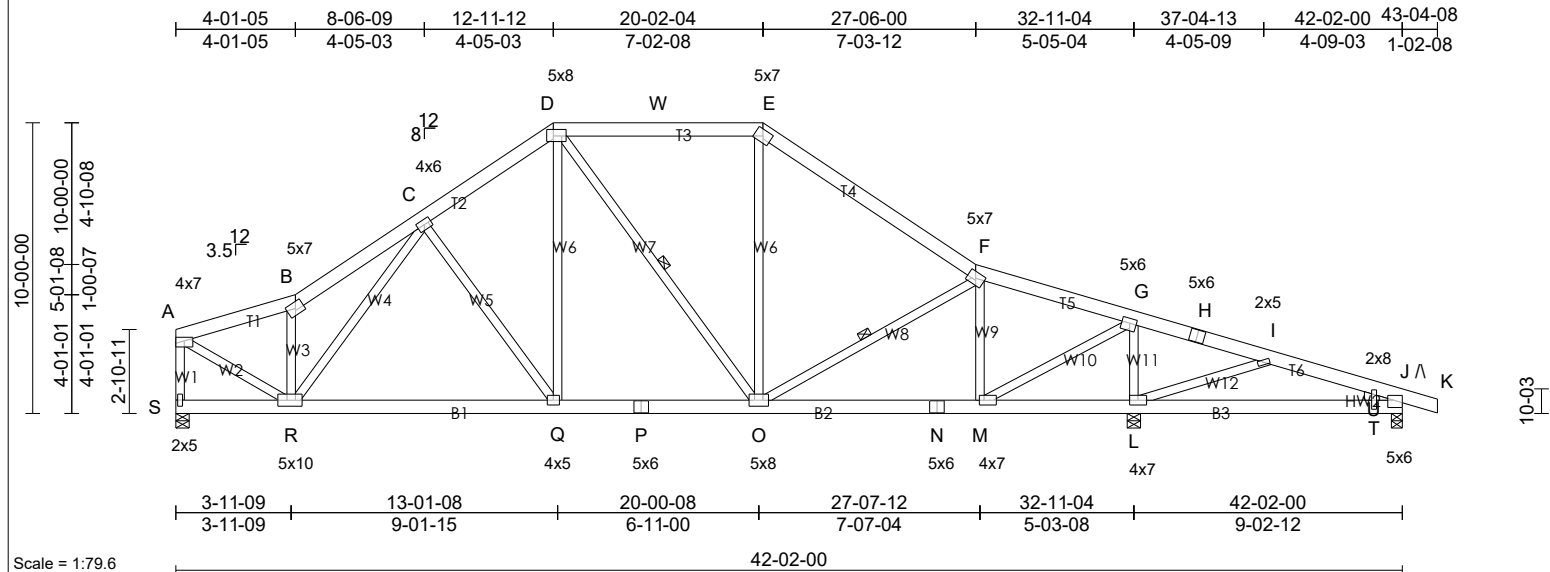


Plate Offsets (Joint: x, y): (A: Edge, 1-08), (D: 5-04, 2-12), (G: 2-12, 2-00), (J: 0-00, 1-15), (J: 10-10, 2-11), (M: 2-00, 2-00), (R: 3-12, 2-08)

Total Weight = 1 x 254 = 254 lb [F]

SPECIFIED LOADS	CODES / STANDARDS	DESIGN INFORMATION	DEFLECTIONS	PLATE INFORMATION
Top ch. Snow (psf) 39.37 Top ch. Dead 6.00 Bot ch. Live 0.00 Bot ch. Dead 7.00 Total Load 52.37	Part 9 Div B NBCC 2015 Residential Application: Roof This design complies with: CBC2018, NBC-2019AE, OBC2012(2019 Amendment), TPIC2014, CSAO86-14	SPACING: 24.00 in cc KS = 1.00 (Dry Service) KH = 1.10 (Load Sharing Member) KD = 1.00 (Load Duration LC1) CSI Top 0.43/1.00 D-W (1) CSI Bot 0.23/1.00 Q-R (1) CSI Web 0.45/1.00 C-Q (1) SSI 0.31/1.00 D-W (1)	Ceiling Type: Plaster / Gypsum DESIGN (in) LIMIT (in) Vert(LL) L/999 (0.08) L/360 (1.10) Vert(TL) L/999 (0.15) L/360 (1.10) Vert(DL) L/999 (0.05) L/360 (1.10) Horiz(TL) L/999 (0.04) L/120 (0.92)	All plates are MT20 unless otherwise noted. Placement Tolerance: 0.25 in Rotation Tolerance: 5 ° JSI Grip (max): 0.89 @ Joint S. Limit = 0.90 JSI Metal (max): 0.67 @ Joint G. Limit = 1.00 Plate Grip (psi) Shear (pli) Section (pli) MT20 650/371 1747/788 1987/1873

Max. Factored Reactions (lb),						Bearing Information		Unfactored Reactions (lb)				
Support	Down (LC)	Uplift	Horiz	Input	Req'd	Bro. Material	Bro. Enhancer	Snow	Live	Dead	Wind	
S	2418 (1)	--	0	5-08	4-06	SPF No.2	none	1249/0	--/--	436/0	--/--	
L	3608 (1)	--	0	5-08	3-15	SPF No.2	none	1877/0	--/--	634/0	--/--	
J	548 (1)	--	0	4-08	1-08	SPF No.2	none	294/0	--/--	85/0	--/--	

Factored Vertical Load in LC1 (plf), Max Factored Member Forces (lb), CSI, Max Unbraced Length (MUL)												LoadCases: 4		
Member	Start	End	MaxC	MaxT	CSI (LC)	MUL (ft)	Member	Start	End	MaxC	MaxT	CSI (LC)	MUL (ft)	
Top Ch.	A-B	-133.1	-133.1	2450	0	0.11 (1)	5.77	B-C	-133.1	-133.1	2857	0	0.12 (1)	5.44
	C-D	-133.1	-133.1	2407	0	0.12 (1)	5.8	D-W	-140.6	-140.6	1896	0	0.43 (1)	2
	E-W	-140.6	-140.6	1896	0	0.43 (1)	2	E-F	-133.1	-133.1	2275	0	0.33 (1)	5.65
	A-S	--	--	2388	0	0.21 (1)	--	F-G	-133.1	-133.1	1979	0	0.17 (1)	6.17
	G-H	-133.1	-133.1	0	776	0.26 (1)	10	H-I	-133.1	-133.1	0	776	0.16 (1)	10
	I-U	-133.1	-133.1	127	0	0.08 (1)	6.25	J-U	-133.1	-133.1	248	0	0.06 (4)	6.25
	J-K	-133.1	-133.1	0	0	0.04 (1)	10							
Bot Ch.	R-S	-17.5	-17.5	0	0	0.07 (4)	10	Q-R	-17.5	-17.5	0	2347	0.23 (1)	10
	P-Q	-17.5	-17.5	0	1977	0.19 (1)	10	O-P	-17.5	-17.5	0	1977	0.19 (1)	10
	N-O	-17.5	-17.5	0	1926	0.19 (1)	10	M-N	-17.5	-17.5	0	1926	0.18 (1)	10
	L-M	-17.5	-17.5	732	0	0.08 (1)	6.25	L-T	-17.5	-17.5	0	147	0.12 (1)	10
	J-T	-17.5	-17.5	0	147	0.05 (1)	10							
Webs	B-R	--	--	1424	0	0.16 (1)	--	C-R	--	--	0	115	0.02 (4)	--
	C-Q	--	--	663	0	0.45 (1)	--	D-Q	--	--	0	696	0.08 (1)	--
	D-O	--	--	136	0	0.08 (1)	6.25	E-O	--	--	0	269	0.03 (4)	--
	F-O	--	--	40	0	0.01 (1)	6.25	F-M	--	--	1467	0	0.25 (1)	--
	A-R	--	--	0	2759	0.32 (1)	--	G-L	--	--	3064	0	0.28 (1)	--
	I-L	--	--	942	0	0.21 (1)	--	G-M	--	--	0	3020	0.35 (1)	--

Bracing Requirements

Top Chord: Rigid sheathing directly applied or 2 ft oc lateral restraint required.
 Bottom Chord: Rigid Ceiling directly applied or 6.25 ft oc lateral restraint required.
 Web: One Lateral restraint required at 1/2 length of web D-O, F-O

Lumber (NLGA Grading Rules)

Chords

2x4 SPF 1650F 1.5E W1
 2x6 SPF 1650F 1.5E B1, B3, B2, T1, T2, T3, T4, T5, T6

Webs

2x4 SPF 1650F 1.5E All Webs
 2x4 Right Wedge

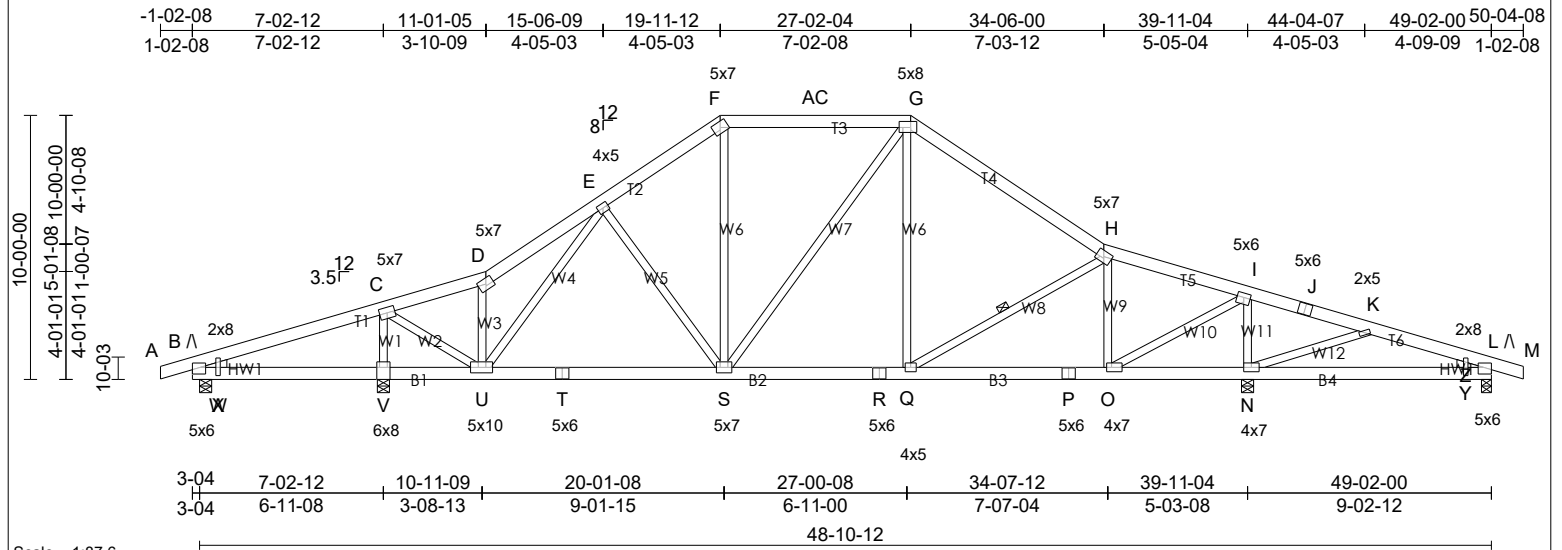
NOTES

- Overhang not to be altered or cut off
- Loading in flat Section Based on Piggyback Truss with Slopes of 8 /12 and -8 /12 and Respective Heel Heights of 0-00 and 0-00 and an Additional Dead Load of 3.0 psf
- Specified Snow Load: S = Ss(Cb) + Sr = 56.39 (0.55) + 8.35 = 39.37 psf
- End Vertical(s) must be Sheathed or have Braces as Indicated in the Max. Unbraced Length Column of the Table Above
- Loading in top chord D-E section based on a minimum transverse pitch of 8 /12 (33.69 °)
- Truss plate manufacturer is not responsible for quality control in the truss manufacturing plant. Dimensions, supports, and loadings specified by fabricator to be verified by building designer. All pitch breaks and perimeter corner joints must be laterally restrained. All lumber is dry (moisture content is less than 19%) at time of fabrication, unless otherwise specified

Job Name:	Truss Name:	Qty	Ply	Job Desc: 2454W Walls	Drawing No.:
B6138	T3B	3	1	Truss Desc:	

Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Wed Jan 11 11:29:11
ID:SlOqQ2UzLT9OWPGBep?BPcyp0 q-as2hRIWGKE 3nrOOGvqAECq7ahk9JFSfi9KyNazwSYd

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Scale = 1:87.6

Plate Offsets (Joint: x, y): (B: 0-00, 2-00), (B: 10-10, 2-11), (G: 5-04, 2-12), (I: 3-00, 2-00), (L: 0-00, 1-15), (L: 10-10, 2-11), (O: 2-04, 2-00), (U: 3-08, 2-08), (V: 3-00, Edge)

Total Weight = 3 x 283 = 848 lb [F]

SPECIFIED LOADS		CODES / STANDARDS		DESIGN INFORMATION		DEFLECTIONS			PLATE INFORMATION			
	(psf)	Part 9 Div B NBCC 2015		SPACING: 24.00 in cc		Ceiling Type: Plaster / Gypsum			All plates are MT20 unless otherwise noted.			
Top ch. Snow	39.37	Residential		KS = 1.00 (Dry Service)		Vert(LL)	DESIGN (in)	LIMIT (in)	Placement Tolerance: 0.25 in			
Top ch. Dead	6.00	Application: Roof		KH = 1.10 (Load Sharing Member)		Vert(TL)	L/999 (0.07)	L/360 (1.09)	Rotation Tolerance: 5 °			
Bot ch. Live	0.00			KD = 1.00 (Load Duration LC1)		Vert(DL)	L/999 (0.14)	L/360 (1.09)	JSI Grip (max): 0.90 @ Joint O. Limit = 0.90			
Bot ch. Dead	7.00	This design complies with:				Vert(DL)	L/999 (0.05)	L/360 (1.09)	JSI Metal (max): 0.65 @ Joint I. Limit = 1.00			
Total Load	52.37	BCBC2018, NBC-2019AE,				Horiz(TL)	L/999 (0.03)	L/120 (0.92)				
		OBc2012(2019 Amendment),		CSI Top 0.43/1.00	F-AC (1)				<u>Plate</u>	<u>Grip (psi)</u>	<u>Shear (pli)</u>	<u>Section (pli)</u>
		TPIC2014, CSAO86-14		CSI Bot 0.22/1.00	S-T (1)				MT20	650/371	1747/788	1987/1873
				CSI Web 0.34/1.00	I-O (1)							
				SSI 0.31/1.00	F-AC (1)							

Support	Max. Factored Reactions (lb),			Bearing Information			Unfactored Reactions (lb)							
	Down (LC)	Uplift	Horiz	Input	Req'd	Brq. Material	Brq. Enhancer	Snow	Live	Dead	Wind			
B	477 (1)	--	0	5-08	1-08	SPF No.2	none	264/0	--/--	64/0	--/--			
V	3238 (1)	--	0	5-08	5-08	SPF No.2	none	1673/0	--/--	582/0	--/--			
N	3526 (1)	--	0	5-08	3-13	SPF No.2	none	1833/0	--/--	621/0	--/--			
L	558 (1)	--	0	4-08	1-08	SPF No.2	none	301/0	--/--	85/0	--/--			
Factored Vertical Load in LC1 (plf), Max Factored Member Forces (lb), CSI, Max Unbraced Length (MUL)														
	Member	Start	End	MaxC	MaxT	CSI (LC)	MUL (ft)	Member	Start	End	MaxC	MaxT	CSI (LC)	MUL (ft)
Top Ch.	A-B	-133.1	-133.1	0	0	0.04 (1)	10	B-X	-133.1	-133.1	0	354	0.05 (4)	10
	C-X	-133.1	-133.1	0	343	0.31 (1)	10	C-D	-133.1	-133.1	1908	0	0.23 (1)	6.16
	D-E	-133.1	-133.1	2162	0	0.11 (1)	6.04	E-F	-133.1	-133.1	2241	0	0.12 (1)	5.96
	F-A-C	-140.6	-140.6	1837	0	0.43 (1)	2	G-A-C	-140.6	-140.6	1837	0	0.43 (1)	2
	G-H	-133.1	-133.1	2169	0	0.32 (1)	5.76	H-I	-133.1	-133.1	1915	0	0.17 (1)	6.24
	I-J	-133.1	-133.1	0	747	0.26 (1)	10	J-K	-133.1	-133.1	0	747	0.16 (1)	10
	K-Z	-133.1	-133.1	148	0	0.08 (1)	6.25	L-Z	-133.1	-133.1	270	0	0.06 (4)	6.25
	L-M	-133.1	-133.1	0	0	0.04 (1)	10							
Bot Ch.	B-W	-17.5	-17.5	302	0	0.15 (1)	6.25	V-W	-17.5	-17.5	302	0	0.15 (1)	6.25
	U-V	-17.5	-17.5	302	0	0.12 (1)	6.25	T-U	-17.5	-17.5	0	2090	0.22 (1)	10
	S-T	-17.5	-17.5	0	2090	0.22 (1)	10	R-S	-17.5	-17.5	0	1806	0.19 (1)	10
	Q-R	-17.5	-17.5	0	1806	0.17 (1)	10	P-Q	-17.5	-17.5	0	1863	0.19 (1)	10
	O-P	-17.5	-17.5	0	1863	0.18 (1)	10	N-O	-17.5	-17.5	704	0	0.08 (1)	6.25
	N-Y	-17.5	-17.5	0	167	0.12 (1)	10	L-Y	-17.5	-17.5	0	167	0.05 (1)	10
Webs	D-U	--	--	1028	0	0.11 (1)	--	E-U	--	--	447	0	0.30 (1)	--
	E-S	--	--	454	0	0.31 (1)	--	F-S	--	--	0	494	0.06 (1)	--
	G-S	--	--	0	51	0.01 (1)	--	G-Q	--	--	0	169	0.03 (4)	--
	H-Q	--	--	69	0	0.02 (1)	6.25	H-O	--	--	1411	0	0.24 (1)	--
	I-N	--	--	2983	0	0.27 (1)	--	I-O	--	--	0	2917	0.34 (1)	--
	C-V	--	--	2932	0	0.22 (1)	--	C-U	--	--	0	2515	0.29 (1)	--
	K-N	--	--	935	0	0.20 (1)	--							

Bracing Requirements

Top Chord: Rigid sheathing directly applied or 2 ft oc lateral restraint required.

Bottom Chord: Rigid Ceiling directly applied or 6.25 ft oc lateral restraint required at B-U, L-N.

Rigid Ceiling directly applied or 6.25 ft oc lateral restraint required at O-U, N-O.

Web: One Lateral restraint required at 1/2 length of web H-Q

Lumber (NLGA Grading Rules)

Chords

2x6 SPF 1650F 1.5E B1, B3, B2, B4, T1, T2, T3, T4, T5, T6

Webb

2x4 SPF 1650F 1.5E All Webs

2x4 Left Wedge

2x4 Right Wedge

NOTES

1. Overhang not to be altered or cut off
2. Loading in flat Section Based on Piggyback Truss with Slopes of 8 /12 and -8 /12 and Respective Heel Heights of 0-00 and 0-00 and an Additional Dead Load of 3.0 psf
3. Specified Snow Load: $S = S_s(C_b) + S_r = 56.39 (0.55) + 8.35 = 39.37$ psf
4. Loading in top chord F-G section based on a minimum transverse pitch of 6 /12 (26.57 °)
5. Truss plate manufacturer is not responsible for quality control in the truss manufacturing plant. Dimensions, supports, and loadings specified by fabricator to be verified by building designer. All pitch breaks and perimeter corner joints must be laterally restrained. All lumber is dry (moisture content is less than 19%) at time of fabrication, unless otherwise specified

Job Name: B6138	Truss Name: T3C	Qty 4	Ply 1	Job Desc: 2454W Walls Truss Desc:	Drawing No.:
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Run: 8.62 S Sep 22 2022
Print: 8.620 S Sep 22 2022
MiTek Industries, Inc.
Wed Jan 11 11:29:11

Page: 1 of 1
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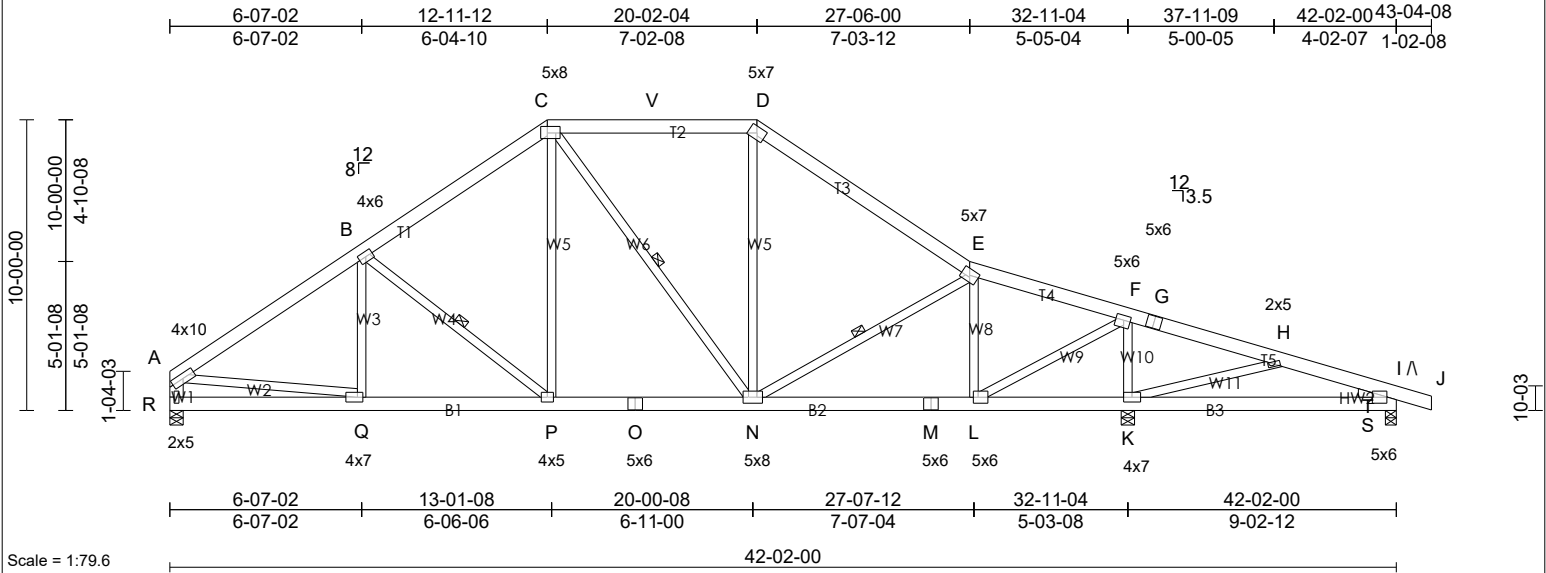


Plate Offsets (Joint: x, y): (C: 5-04, 2-12), (F: 2-12, 2-00), (I: 0-04, 2-08), (L: 2-00, 2-08), (Q: 2-04, 2-00)				Total Weight = 4 x 250 = 1001 lb [F]	
SPECIFIED LOADS		CODES / STANDARDS		DESIGN INFORMATION	
Top ch. Snow (psf) 39.37 Top ch. Dead 6.00 Bot ch. Live 0.00 Bot ch. Dead 7.00 Total Load 52.37		Part 9 Div B NBCC 2015 Residential Application: Roof This design complies with: BCBC2018, NBC-2019AE, OBC2012(2019 Amendment), TPIC2014, CSAO86-14		SPACING: 24.00 in cc KS = 1.00 (Dry Service) KH = 1.10 (Load Sharing Member) KD = 1.00 (Load Duration LC1) CSI Top 0.43/1.00 C-V (1) CSI Bot 0.22/1.00 P-Q (1) CSI Web 0.36/1.00 F-L (1) SSI 0.31/1.00 C-V (1)	
				DEFLECTIONS Ceiling Type: Plaster / Gypsum DESIGN (in) LIMIT (in) Vert(LL) L/999 (0.08) L/360 (1.10) Vert(TL) L/999 (0.13) L/360 (1.10) Vert(DL) L/999 (0.04) L/360 (1.10) Horiz(TL) L/999 (0.04) L/120 (0.92)	
				PLATE INFORMATION All plates are MT20 unless otherwise noted. Placement Tolerance: 0.25 in Rotation Tolerance: 5 ° JSI Grip (max): 0.89 @ Joint K. Limit = 0.90 JSI Metal (max): 0.68 @ Joint F. Limit = 1.00 Plate Grip (psi) Shear (pli) Section (pli) MT20 650/371 1747/788 1987/1873	

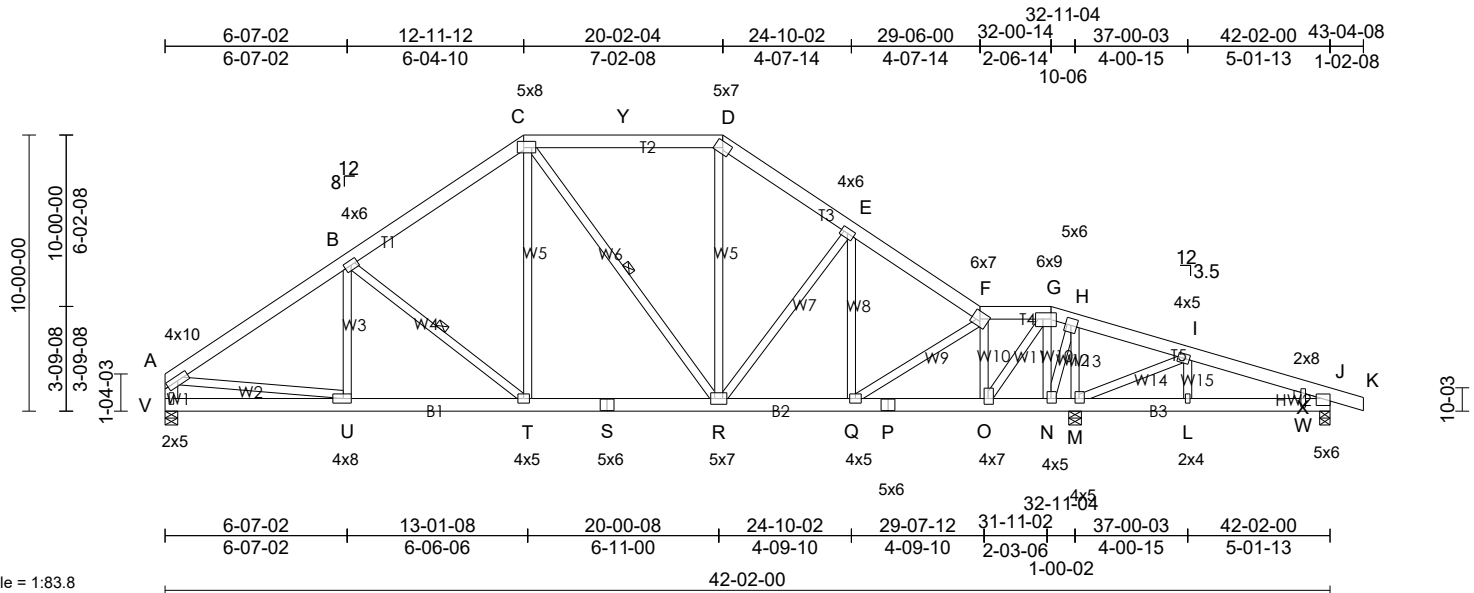
Max. Factored Reactions (lb), Bearing Information								Unfactored Reactions (lb)				Bracing Requirements			
Support	Down (LC)	Uplift	Horiz	Input	Req'd	Brq. Material	Brq. Enhancer	Snow	Live	Dead	Wind	Top Chord:	Rigid sheathing directly applied or 2 ft oc lateral restraint required.		
R	2411 (1)	--	0	5-08	2-10	SPF No.2	none	1245/0	--/--	434/0	--/--	Bottom Chord:	Rigid Ceiling directly applied or 6.25 ft oc lateral restraint required.		
K	3644 (1)	--	0	5-08	3-15	SPF No.2	none	1895/0	--/--	641/0	--/--	Web:	One Lateral restraint required at 1/2 length of web B-P, C-N, E-N		
I	520 (1)	--	0	4-08	1-08	SPF No.2	none	280/0	--/--	80/0	--/--				
Factored Vertical Load in LC1 (plf), Max Factored Member Forces (lb), CSI, Max Unbraced Length (MUL)								LoadCases: 4				Lumber (NLGA Grading Rules)			
	Member	Start	End	MaxC	MaxT	CSI (LC)	MUL (ft)	Member	Start	End	MaxC	MaxT	CSI (LC)	MUL (ft)	Chords
Top Ch.	A-B	-133.1	-133.1	2993	0	0.25 (1)	5.2	B-C	-133.1	-133.1	2405	0	0.24 (1)	5.65	2x6 SPF 1650F 1.5E B1, B3, B2, W1, T1, T2, T3, T4, T5
	C-V	-140.6	-140.6	1881	0	0.43 (1)	2	D-V	-140.6	-140.6	1881	0	0.43 (1)	2	
	D-E	-133.1	-133.1	2257	0	0.33 (1)	5.67	E-F	-133.1	-133.1	1932	0	0.18 (1)	6.2	
	F-G	-133.1	-133.1	0	855	0.29 (1)	10	G-H	-133.1	-133.1	0	855	0.16 (1)	10	
	H-T	-133.1	-133.1	158	0	0.07 (1)	6.25	I-T	-133.1	-133.1	277	0	0.06 (4)	6.25	
	I-J	-133.1	-133.1	0	0	0.04 (1)	10	A-R	--	--	2356	0	0.10 (1)	--	
Bot Ch.	Q-R	-17.5	-17.5	0	0	0.05 (4)	10	P-Q	-17.5	-17.5	0	2536	0.22 (1)	10	2x4 SPF 1650F 1.5E All Webs 2x4 Right Wedge
	O-P	-17.5	-17.5	0	1960	0.17 (1)	10	N-O	-17.5	-17.5	0	1960	0.19 (1)	10	
	M-N	-17.5	-17.5	0	1879	0.19 (1)	10	L-M	-17.5	-17.5	0	1879	0.18 (1)	10	
	K-L	-17.5	-17.5	806	0	0.08 (1)	6.25	K-S	-17.5	-17.5	0	178	0.11 (1)	10	
	I-S	-17.5	-17.5	0	178	0.04 (4)	10								
Webs	B-Q	--	--	211	59	0.05 (1)	--	B-P	--	--	749	0	0.18 (1)	6.25	
	C-P	--	--	0	584	0.07 (1)	--	C-N	--	--	133	0	0.08 (1)	6.25	
	D-N	--	--	0	259	0.03 (4)	--	E-N	--	--	5	0	0.00 (4)	6.25	
	E-L	--	--	1482	0	0.25 (1)	--	A-Q	--	--	0	2556	0.30 (1)	--	
	F-K	--	--	3141	0	0.28 (1)	--	F-L	--	--	0	3051	0.36 (1)	--	
	H-K	--	--	1031	0	0.29 (1)	--								

- NOTES
- Overhang not to be altered or cut off
 - Loading in flat Section Based on Piggyback Truss with Slopes of 8 /12 and -8 /12 and Respective Heel Heights of 0-00 and 0-00 and an Additional Dead Load of 3.0 psf
 - Specified Snow Load: S = Ss(Cb) + Sr = 56.39 (0.55) + 8.35 = 39.37 psf
 - End Vertical(s) must be Sheathed or have Braces as Indicated in the Max. Unbraced Length Column of the Table Above
 - Loading in top chord C-D section based on a minimum transverse pitch of 6 /12 (26.57 °)
 - Truss plate manufacturer is not responsible for quality control in the truss manufacturing plant. Dimensions, supports, and loadings specified by fabricator to be verified by building designer. All pitch breaks and perimeter corner joints must be laterally restrained. All lumber is dry (moisture content is less than 19%) at time of fabrication, unless otherwise specified

Job Name:	Truss Name:	Qty	Ply	Job Desc: 2454W Walls	Drawing No.:
B6138	T3D	1	1	Truss Desc:	

Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Wed Jan 11 11:29:12
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Scale = 1:83.8

Plate Offsets (Joint: x, y): (C: 5-04, 2-12), (G: 6-12, 2-12), (J: Edge, 1-15), (J: 10-10, 2-11), (M: 1-12, 2-00), (N: 1-12, 2-00), (O: 1-12, 2-08), (U: 3-08, 2-00)

Total Weight = 1 x 265 = 265 lb [F]

SPECIFIED LOADS		CODES / STANDARDS		DESIGN INFORMATION					DEFLECTIONS			PLATE INFORMATION			
	(psf)	Part 9 Div B NBCC 2015		SPACING: 24.00 in cc					Ceiling Type: Plaster / Gypsum			All plates are MT20 unless otherwise noted.			
Top ch. Snow	39.37	Residential		KS = 1.00 (Dry Service)					DESIGN (in)	LIMIT (in)		Placement Tolerance:		0.25 in	
Top ch. Dead	6.00	Application: Roof		KH = 1.10 (Load Sharing Member)					Vert(LL)	L/999 (0.08)	L/360 (1.10)	Rotation Tolerance:		5 °	
Bot ch. Live	0.00			KD = 1.00 (Load Duration LC1)					Vert(TL)	L/999 (0.14)	L/360 (1.10)	JSI Grip (max):		0.90 @ Joint U. Limit = 0.90	
Bot ch. Dead	7.00	This design complies with:							Vert(DL)	L/999 (0.03)	L/360 (1.10)	JSI Metal (max):		0.81 @ Joint O. Limit = 1.00	
Total Load	52.37	BCBC2018, NBC-2019AE, OB2012(2019 Amendment), TPIC2014, CSA086-14		CSI	Top	0.43/1.00	C-Y	(1)	Horiz(TL)	L/999 (0.04)	L/395 (1.00)				
				CSI	Bot	0.21/1.00	T-U	(1)				Plate	Grip (psi)	Shear (pli)	Section (pli)
				CSI	Web	0.34/1.00	G-O	(1)				MT20	650/371	1747/788	1987/1873
				SSI		0.31/1.00	C-Y	(1)							

	Max. Factored Reactions (lb)			Bearing Information			Unfactored Reactions (lb)							
Support	Down (LC)	Uplift	Horiz	Input	Rea'd	Bro. Material	Bro. Enhancer	Snow	Live	Dead	Wind			
V	2393 (1)	--	0	5-08	2-09	SPF No.2	none	1239/0	--/--	428/0	--/--			
M	3723 (1)	--	0	5-08	4-01	SPF No.2	none	1926/0	--/--	667/0	--/--			
J	458 (1)	--	0	4-08	1-08	SPF No.2	none	256/0	--/--	59/0	--/--			
Factored Vertical Load in LC1 (plf), Max Factored Member Forces (lb), CSI, Max Unbraced Length (MUL)														
	Member	Start	End	MaxC	MaxT	CSI (lb)	MUL (ft)	Member	Start	End	MaxC	MaxT	CSI (lb)	MUL (ft)
Top Ch.	A-B	-133.1	-133.1	2967	0	0.25 (1)	5.22	B-C	-133.1	-133.1	2378	0	0.24 (1)	5.68
	C-Y	-140.6	-140.6	1840	0	0.43 (1)	2	D-Y	-140.6	-140.6	1840	0	0.43 (1)	2
	D-E	-133.1	-133.1	2246	0	0.12 (1)	5.94	E-F	-133.1	-133.1	2375	0	0.13 (1)	5.82
	F-G	-133.1	-133.1	1207	0	0.04 (1)	6.25	G-H	-133.1	-133.1	0	286	0.20 (1)	10
	H-I	-133.1	-133.1	0	1038	0.26 (1)	10	I-X	-133.1	-133.1	0	142	0.13 (1)	10
	J-X	-133.1	-133.1	0	93	0.04 (1)	10	J-K	-133.1	-133.1	0	0	0.04 (1)	10
	A-V	--	--	2338	0	0.10 (1)	--							
Bot Ch.	U-V	-17.5	-17.5	0	0	0.05 (4)	10	T-U	-17.5	-17.5	0	2513	0.21 (1)	10
	S-T	-17.5	-17.5	0	1938	0.17 (1)	10	R-S	-17.5	-17.5	0	1938	0.17 (1)	10
	Q-R	-17.5	-17.5	0	2012	0.17 (1)	10	P-Q	-17.5	-17.5	0	1307	0.12 (1)	10
	O-P	-17.5	-17.5	0	1307	0.13 (1)	10	N-O	-17.5	-17.5	497	0	0.04 (1)	6.25
	M-N	-17.5	-17.5	987	0	0.12 (1)	6.25	L-M	-17.5	-17.5	115	0	0.11 (1)	6.25
	L-W	-17.5	-17.5	115	0	0.08 (1)	6.25	J-W	-17.5	-17.5	115	0	0.07 (1)	6.25
Webs	B-U	--	--	211	59	0.05 (1)	--	B-T	--	--	749	0	0.18 (1)	6.25
	C-T	--	--	0	594	0.07 (1)	--	C-R	--	--	165	0	0.09 (1)	6.25
	D-R	--	--	0	483	0.06 (1)	--	E-R	--	--	299	0	0.20 (1)	--
	E-Q	--	--	418	0	0.16 (1)	--	F-Q	--	--	0	866	0.10 (1)	--
	F-O	--	--	2256	0	0.22 (1)	--	G-O	--	--	0	2893	0.34 (1)	--
	G-N	--	--	2221	0	0.22 (1)	--	A-U	--	--	0	2534	0.29 (1)	--
	H-N	--	--	0	1878	0.22 (1)	--	H-M	--	--	2775	0	0.25 (1)	--
	I-M	--	--	961	0	0.15 (1)	--	I-L	--	--	0	83	0.01 (4)	--

Bracing Requirements

Top Chord: Rigid sheathing directly applied or 2 ft oc lateral restraint required.

Bottom Chord: Rigid Ceiling directly applied or 6.25 ft oc lateral restraint required.

Web: One Lateral restraint required at 1/2 length of web B-T, C-R

Lumber (NLGA Grading Rules)

Chords

2x6 SPF 1650F 1.5E B1, B3, B2, W1, T1, T2, T3, T4, T5

Webs

2x4 SPF 1650F 1.5E All Webs

2x4 Right Wedge

NOTES

1. Loading in Highest Flat Section Based on Piggyback Truss with Slopes of 8 /12 and -8 /12 and Respective Heel Heights of 0-00 and 0-00 and an Additional Dead Load of 3.0 psf
2. Specified Snow Load: $S = S_s(C_b) + S_r = 56.39 (0.55) + 8.35 = 39.37$ psf
3. End Vertical(s) must be Sheathed or have Braces as Indicated in the Max. Unbraced Length Column of the Table Above
4. Loading in top chord C-D section based on a minimum transverse pitch of 6 /12 (26.57 °)
5. Loading in top chord F-G section based on a minimum transverse pitch of 12 /12 (45.00 °)
6. Truss plate manufacturer is not responsible for quality control in the truss manufacturing plant. Dimensions, supports, and loadings specified by fabricator to be verified by building designer. All pitch breaks and perimeter corner joints must be laterally restrained. All lumber is drv (moisture content is less than 19%) at time of fabrication, unless otherwise specified

Factored Vertical Load in LC1 (plf), Max Factored Member Forces (lb), CSI, Max Unbraced Length (MUL)								LoadCases: 4						
	Member	Start	End	MaxC	MaxT	CSI (LC)	MUL (ft)	Member	Start	End	MaxC	MaxT	CSI (LC)	MUL (ft)
Top Ch.	A-X	-133.1	-133.1	0	234	0.11 (1)	10	B-X	-133.1	-133.1	0	247	0.33 (1)	10
	B-C	-133.1	-133.1	0	479	0.21 (1)	10	C-D	-133.1	-133.1	0	338	0.24 (1)	10
	D-E	-133.1	-133.1	0	352	0.30 (1)	10	E-F	-133.1	-133.1	0	322	0.30 (1)	10
	F-G	-133.1	-133.1	0	321	0.31 (1)	10	G-H	-133.1	-133.1	0	358	0.31 (1)	10
	H-I	-133.1	-133.1	0	360	0.20 (1)	10	I-J	-133.1	-133.1	0	151	0.77 (1)	10
	J-Z	-133.1	-133.1	0	320	0.79 (1)	10	K-Z	-133.1	-133.1	0	269	0.15 (1)	10
	Bot Ch.	A-W	-17.5	-17.5	251	0	0.36 (1)	6.25	V-W	-17.5	-17.5	234	0	0.36 (1)
U-V		-17.5	-17.5	246	0	0.30 (1)	6.25	T-U	-17.5	-17.5	277	0	0.05 (4)	6.25
S-T		-17.5	-17.5	287	0	0.05 (4)	6.25	R-S	-17.5	-17.5	287	0	0.04 (4)	6.25
Q-R		-17.5	-17.5	294	0	0.05 (4)	6.25	P-Q	-17.5	-17.5	294	0	0.05 (4)	6.25
O-P		-17.5	-17.5	287	0	0.05 (4)	6.25	N-O	-17.5	-17.5	287	0	0.05 (4)	6.25
M-N		-17.5	-17.5	278	0	0.06 (1)	6.25	L-M	-17.5	-17.5	299	0	0.39 (1)	6.25
L-Y		-17.5	-17.5	275	0	0.50 (1)	6.25	K-Y	-17.5	-17.5	297	0	0.50 (1)	6.25
Webs		F-Q	--	--	820	0	0.40 (1)	6.25	E-R	--	--	603	0	0.42 (1)
	D-T	--	--	522	0	0.12 (1)	--	C-U	--	--	604	0	0.06 (1)	--
	G-P	--	--	616	0	0.43 (1)	--	H-N	--	--	473	0	0.11 (1)	--
	J-L	--	--	1197	0	0.12 (1)	--	I-M	--	--	0	476	0.08 (1)	--
	B-V	--	--	0	146	0.02 (1)	--							

Job Name:	Truss Name:	Qty	Ply	Job Desc: 2454W Walls	Drawing No.:
B6138	V2	1	1	Truss Desc:	

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Page: 2 of 2

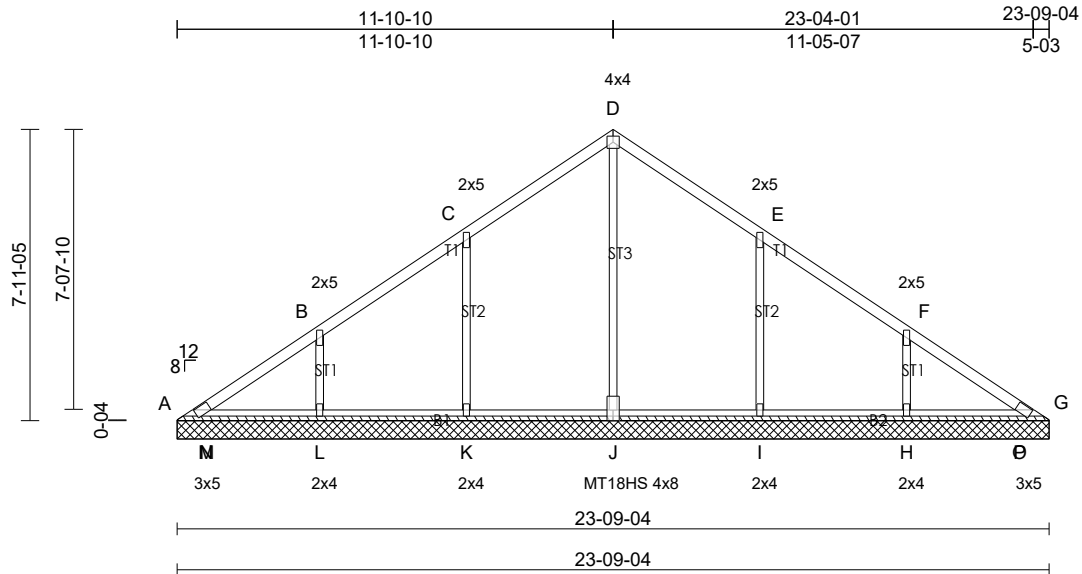
NOTES

1. Note: This truss has large uplift due to gravity loads. Anchorage for uplift reaction shall be provided by building designer.
2. Specified Snow Load: $S = S_s(C_b) + S_r = 56.39 (0.55) + 8.35 = 39.37 \text{ psf}$
3. One RT7A MiTek connector(s) recommended to connect truss for uplift at joint(s) M. This connection is for uplift only and does not consider lateral forces.
4. Truss plate manufacturer is not responsible for quality control in the truss manufacturing plant. Dimensions, supports, and loadings specified by fabricator to be verified by building designer. All pitch breaks and perimeter corner joints must be laterally restrained. All lumber is dry (moisture content is less than 19%) at time of fabrication, unless otherwise specified

Job Name: B6138	Truss Name: V2A	Qty 1	Ply 1	Job Desc: 2454W Walls Truss Desc:	Drawing No.:
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Scale = 1:63.1

Plate Offsets (Joint: x, y): (J: 0-00, Edge)

Total Weight = 1 x 75 = 75 lb

SPECIFIED LOADS		CODES / STANDARDS		DESIGN INFORMATION				DEFLECTIONS		PLATE INFORMATION				
	(psf)	Part 9 Div B NBCC 2015		SPACING: 24.00 in cc				Ceiling Type: Plaster / Gypsum		All plates are MT20 unless otherwise noted.				
Top ch. Snow	39.37	Residential		KS = 1.00 (Dry Service)				DESIGN (in)	LIMIT (in)	Placement Tolerance:		0.25 in		
Top ch. Dead	6.00	Application: Roof		KH = 1.10 (Load Sharing Member)						Rotation Tolerance:		5 °		
Bot ch. Live	0.00			KD = 1.00 (Load Duration LC1)						JSI Grip (max):		0.90 @ Joint D. Limit = 0.90		
Bot ch. Dead	7.00	This design complies with:								JSI Metal (max):		0.31 @ Joint C. Limit = 1.00		
Total Load	52.37	BCBC2018, NBC-2019AE,		CSI	Top	0.27/1.00	B-C	(1)			Plate	Grip (psi)	Shear (pli)	Section (pli)
		OBC2012(2019 Amendment),		CSI	Bot	0.12/1.00	L-M	(1)			MT20	650/371	1747/788	1987/1873
		TPIC2014, CSAO86-14		CSI	Web	0.43/1.00	D-J	(1)			MT18HS	586/403	2455/1382	3163/3004
				SSI		0.21/1.00	C-D	(1)						

BEARINGS

THIS TRUSS IS DESIGNED FOR CONTINUOUS BEARING.
THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S).

Factored Vertical Load in LC1 (plf), Max Factored Member Forces (lb), CSI, Max Unbraced Length (MUL)

Member	Start	End	MaxC	MaxT	CSI (LC)	MUL (ft)	Member	Start	End	MaxC	MaxT	CSI (LC)	MUL (ft)
Top Ch.							Top Ch.						
A-N	-133.1	-133.1	3	6	0.03 (1)	10	B-N	-133.1	-133.1	0	49	0.20 (1)	10
B-C	-133.1	-133.1	0	44	0.27 (1)	10	C-D	-133.1	-133.1	0	16	0.26 (1)	10
D-E	-133.1	-133.1	0	16	0.26 (1)	10	E-F	-133.1	-133.1	0	44	0.27 (1)	10
F-P	-133.1	-133.1	0	49	0.20 (1)	10	G-P	-133.1	-133.1	3	6	0.03 (1)	10
Bot Ch.							Bot Ch.						
A-M	-17.5	-17.5	35	0	0.12 (1)	6.25	L-M	-17.5	-17.5	12	0	0.12 (1)	6.25
K-L	-17.5	-17.5	29	0	0.07 (1)	6.25	J-K	-17.5	-17.5	39	0	0.06 (4)	6.25
I-J	-17.5	-17.5	39	0	0.06 (4)	6.25	H-I	-17.5	-17.5	29	0	0.07 (1)	6.25
H-O	-17.5	-17.5	12	0	0.12 (1)	6.25	G-O	-17.5	-17.5	35	0	0.12 (1)	6.25
Webs							Webs						
D-J	--	--	483	0	0.43 (1)	--	C-K	--	--	603	0	0.18 (1)	--
B-L	--	--	503	0	0.05 (1)	--	E-I	--	--	603	0	0.18 (1)	--
F-H	--	--	503	0	0.05 (1)	--							

Bracing Requirements

Top Chord: Rigid sheathing directly applied or 10 ft oc lateral restraint required.
Bottom Chord: Rigid Ceiling directly applied or 6.25 ft oc lateral restraint required.

Lumber (NLGA Grading Rules)

Chords

2x3 SPF 1650F 1.5E ST3, ST2, ST1
2x4 SPF 1650F 1.5E B1, B2, T1

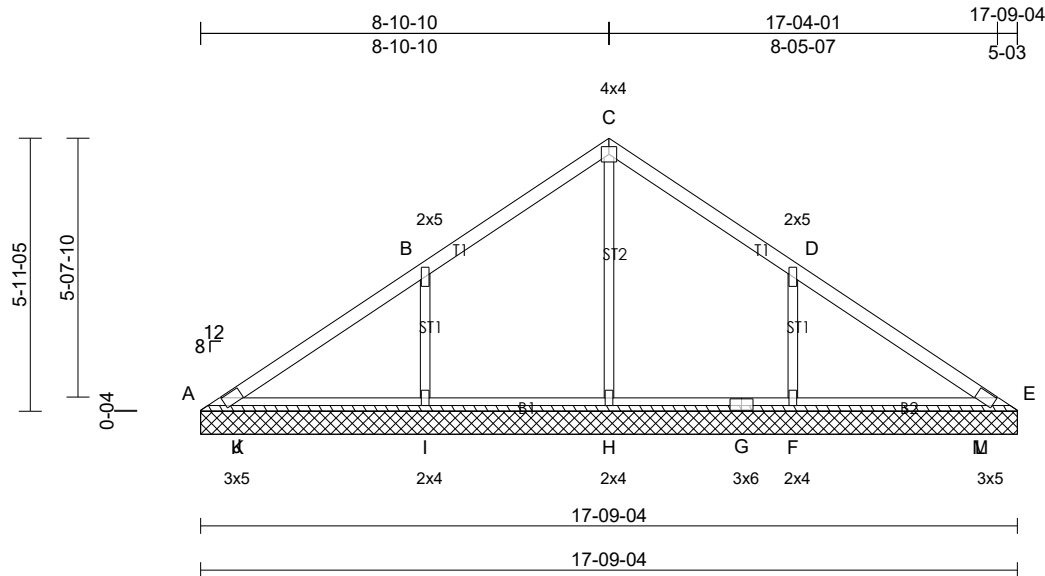
NOTES

- Specified Snow Load: $S = S_s(C_b) + S_r = 56.39 (0.55) + 8.35 = 39.37$ psf
- Truss plate manufacturer is not responsible for quality control in the truss manufacturing plant. Dimensions, supports, and loadings specified by fabricator to be verified by building designer. All pitch breaks and perimeter corner joints must be laterally restrained. All lumber is dry (moisture content is less than 19%) at time of fabrication, unless otherwise specified

Job Name: B6138	Truss Name: V2B	Qty 1	Ply 1	Job Desc: 2454W Walls Truss Desc:	Drawing No.:
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Scale = 1:50.3

Total Weight = 1 x 52 = 52 lb

SPECIFIED LOADS	CODES / STANDARDS	DESIGN INFORMATION	DEFLECTIONS	PLATE INFORMATION
Top ch. Snow (psf) 39.37 Top ch. Dead 6.00 Bot ch. Live 0.00 Bot ch. Dead 7.00 Total Load 52.37	Part 9 Div B NBCC 2015 Residential Application: Roof This design complies with: CBC2018, NBC-2019AE, OBC2012(2019 Amendment), TPIC2014, CSAO86-14	SPACING: 24.00 in cc KS = 1.00 (Dry Service) KH = 1.10 (Load Sharing Member) KD = 1.00 (Load Duration LC1) CSI Top 0.35/1.00 D-M (1) CSI Bot 0.16/1.00 F-L (1) CSI Web 0.25/1.00 C-H (1) SSI 0.22/1.00 B-C (1)	Ceiling Type: Plaster / Gypsum DESIGN (in) LIMIT (in)	All plates are MT20 unless otherwise noted. Placement Tolerance: 0.25 in Rotation Tolerance: 5 ° JSI Grip (max): 0.90 @ Joint C, Limit = 0.90 JSI Metal (max): 0.34 @ Joint D, Limit = 1.00 Plate Grip (psi) 650/371 Shear (pli) 1747/788 Section (pli) 1987/1873

BEARINGS

THIS TRUSS IS DESIGNED FOR CONTINUOUS BEARING.
THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S).

Factored Vertical Load in LC1 (plf), Max Factored Member Forces (lb), CSI, Max Unbraced Length (MUL)

LoadCases: 4

	Member	Start	End	MaxC	MaxT	CSI (LC)	MUL (ft)	Member	Start	End	MaxC	MaxT	CSI (LC)	MUL (ft)
Top Ch.	A-K	-133.1	-133.1	0	181	0.04 (4)	10	B-K	-133.1	-133.1	0	238	0.35 (1)	10
	B-C	-133.1	-133.1	0	182	0.35 (1)	10	C-D	-133.1	-133.1	0	182	0.35 (1)	10
	D-M	-133.1	-133.1	0	238	0.35 (1)	10	E-M	-133.1	-133.1	0	181	0.04 (4)	10
Bot Ch.	A-J	-17.5	-17.5	198	0	0.16 (1)	6.25	I-J	-17.5	-17.5	165	0	0.16 (1)	6.25
	H-I	-17.5	-17.5	184	0	0.10 (1)	6.25	G-H	-17.5	-17.5	184	0	0.04 (1)	6.25
	F-G	-17.5	-17.5	184	0	0.10 (1)	6.25	F-L	-17.5	-17.5	165	0	0.16 (1)	6.25
	E-L	-17.5	-17.5	198	0	0.16 (1)	6.25							
Webs	C-H	--	--	649	0	0.25 (1)	--	B-I	--	--	667	0	0.09 (1)	--
	D-F	--	--	667	0	0.09 (1)	--							

Bracing Requirements

Top Chord: Rigid sheathing directly applied or 10 ft oc lateral restraint required.
Bottom Chord: Rigid Ceiling directly applied or 6.25 ft oc lateral restraint required.

Lumber (NLGA Grading Rules)

Chords

2x3 SPF 1650F 1.5E ST2, ST1
2x4 SPF 1650F 1.5E B1, B2, T1

NOTES

- Specified Snow Load: $S = S_s(C_b) + S_r = 56.39 (0.55) + 8.35 = 39.37$ psf
- Truss plate manufacturer is not responsible for quality control in the truss manufacturing plant. Dimensions, supports, and loadings specified by fabricator to be verified by building designer. All pitch breaks and perimeter corner joints must be laterally restrained. All lumber is dry (moisture content is less than 19%) at time of fabrication, unless otherwise specified

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3-11-05
3-07-10
0-04

11-09-04
5-10-10
5-10-10
11-04-01
5-05-07
11-09-04
5-03

3x4
C
2x4
1x2
2x4
1x2
2x4
3x4
A
B
D
E
J
H
G
F
K
3x4
2x4
2x4
2x4
3x4

11-09-04
11-09-04

Scale = 1:40.7

BEARINGS THIS TRUSS IS DESIGNED FOR CONTINUOUS BEARING. THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE. BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S).												Bracing Requirements Top Chord: Rigid sheathing directly applied or 6.25 ft oc lateral restraint required. Bottom Chord: Rigid Ceiling directly applied or 10 ft oc lateral restraint required.			
Factored Vertical Load in LC1 (plf), Max Factored Member Forces (lb), CSI, Max Unbraced Length (MUL)												LoadCases: 4			
	Member	Start	End	MaxC	MaxT	CSI (LC)	MUL (ft)		Member	Start	End	MaxC	MaxT	CSI (LC)	MUL (ft)
Top Ch.	A-J	-133.1	-133.1	157	0	0.02 (1)	6.25		B-J	-133.1	-133.1	35	0	0.25 (1)	6.25
	B-C	-133.1	-133.1	130	0	0.25 (1)	6.25		C-D	-133.1	-133.1	130	0	0.25 (1)	6.25
	D-L	-133.1	-133.1	35	0	0.25 (1)	6.25		E-L	-133.1	-133.1	157	0	0.02 (1)	6.25
Bot Ch.	A-I	-17.5	-17.5	0	145	0.05 (1)	10		H-I	-17.5	-17.5	0	136	0.05 (1)	10
	G-H	-17.5	-17.5	0	84	0.05 (4)	10		F-G	-17.5	-17.5	0	84	0.05 (4)	10
	F-K	-17.5	-17.5	0	136	0.05 (1)	10		E-K	-17.5	-17.5	0	145	0.05 (1)	10
Webs	C-G	--	--	324	0	0.05 (1)	--		B-H	--	--	591	0	0.05 (1)	--
	D-F	--	--	591	0	0.05 (1)	--								

Lumber (NLGA Grading Rules)

Chords

2x3 SPF 1650F 1.5E ST2, ST1

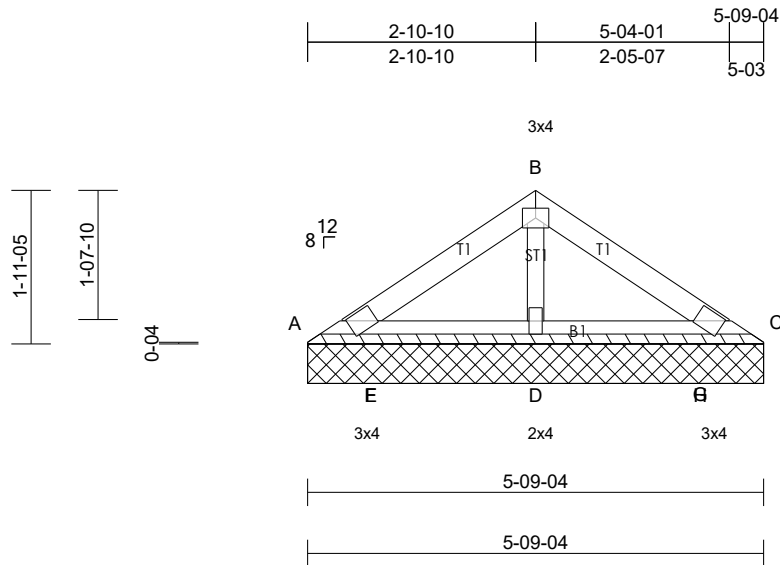
2x4 SPF 1650F 1.5E B1, T1

1. Specified Snow Load: $S = S_s(C_b) + S_r = 56.39 (0.55) + 8.35 = 39.37$ psf
2. Truss plate manufacturer is not responsible for quality control in the truss manufacturing plant. Dimensions, supports, and loadings specified by fabricator to be verified by building designer. All pitch breaks and perimeter corner joints must be laterally restrained. All lumber is dry (moisture content is less than 19%) at time of fabrication, unless otherwise specified

Job Name: B6138	Truss Name: V2D	Qty 1	Ply 1	Job Desc: 2454W Walls Truss Desc:	Drawing No.:
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Scale = 1:29.3

Total Weight = 1 x 14 = 14 lb

SPECIFIED LOADS	CODES / STANDARDS	DESIGN INFORMATION	DEFLECTIONS	PLATE INFORMATION
Top ch. Snow 39.37 Top ch. Dead 6.00 Bot ch. Live 0.00 Bot ch. Dead 7.00 Total Load 52.37	Part 9 Div B NBCC 2015 Residential Application: Roof This design complies with: CBC2018, NBC-2019AE, OBC2012(2019 Amendment), TPIC2014, CSAO86-14	SPACING: 24.00 in cc KS = 1.00 (Dry Service) KH = 1.10 (Load Sharing Member) KD = 1.00 (Load Duration LC1) CSI Top 0.10/1.00 B-H (1) CSI Bot 0.09/1.00 D-G (1) CSI Web 0.04/1.00 B-D (1) SSI 0.09/1.00 B-H (1)	Ceiling Type: Plaster / Gypsum DESIGN (in) LIMIT (in)	All plates are MT20 unless otherwise noted. Placement Tolerance: 0.25 in Rotation Tolerance: 5 ° JSI Grip (max): 0.59 @ Joint B. Limit = 0.90 JSI Metal (max): 0.17 @ Joint B. Limit = 1.00 Plate Grip (psi) Shear (pli) Section (pli) MT20 650/371 1747/788 1987/1873

BEARINGS

THIS TRUSS IS DESIGNED FOR CONTINUOUS BEARING.
THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S).

Factored Vertical Load in LC1 (plf), Max Factored Member Forces (lb), CSI, Max Unbraced Length (MUL)

LoadCases: 4

	Member	Start	End	MaxC	MaxT	CSI (LC)	MUL (ft)	Member	Start	End	MaxC	MaxT	CSI (LC)	MUL (ft)
Top Ch.	A-F	-133.1	-133.1	0	164	0.03 (1)	10	B-F	-133.1	-133.1	0	173	0.10 (1)	10
	B-H	-133.1	-133.1	0	173	0.10 (1)	10	C-H	-133.1	-133.1	0	164	0.03 (1)	10
Bot Ch.	A-E	-17.5	-17.5	166	0	0.09 (1)	6.25	D-E	-17.5	-17.5	145	0	0.09 (1)	6.25
	D-G	-17.5	-17.5	145	0	0.09 (1)	6.25	C-G	-17.5	-17.5	166	0	0.09 (1)	6.25
Webs	B-D	--	--	465	0	0.04 (1)	--							

Bracing Requirements

Top Chord: Rigid sheathing directly applied or 10 ft oc lateral restraint required.
Bottom Chord: Rigid Ceiling directly applied or 6.25 ft oc lateral restraint required.

Lumber (NLGA Grading Rules)

Chords

2x3 SPF 1650F 1.5E ST1
2x4 SPF 1650F 1.5E B1, T1

NOTES

- Specified Snow Load: $S = S_s(C_b) + S_r = 56.39 (0.55) + 8.35 = 39.37$ psf
- Truss plate manufacturer is not responsible for quality control in the truss manufacturing plant. Dimensions, supports, and loadings specified by fabricator to be verified by building designer. All pitch breaks and perimeter corner joints must be laterally restrained. All lumber is dry (moisture content is less than 19%) at time of fabrication, unless otherwise specified