

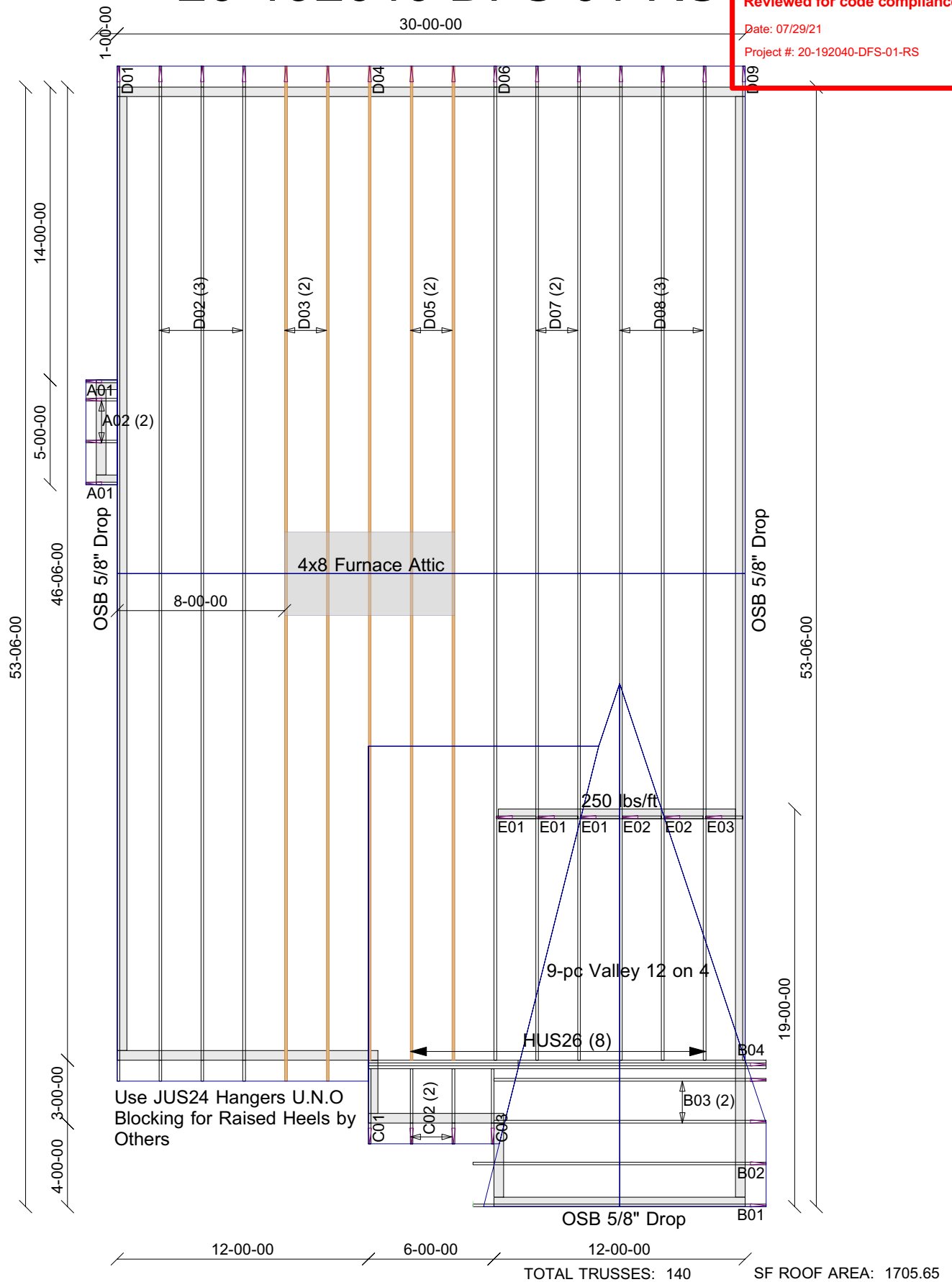
20-192040 DFS 01 RS

City of Portland

Reviewed for code compliance

Date: 07/29/21

Project #: 20-192040-DFS-01-RS



(360)750-1470 Vancouver
(503)285-2615 Portland
(360)750-1493 Fax
1-877-TRUSWAY Toll Free
3901 NE 68th Street
Vancouver, WA 98661

CUSTOMER: SCHUMACHER CUSTOM HOMES
JOB NAME: SE Madison
PLAN:
JOB NUMBER: 213564
SALESMAN: GREG MARTIN

PITCH: 3, 4, 12/12
OVERHANGS: 1' - 0"
LOADING: 25-7-10
WIND SPEED: 120
BUILDING EXP: B



MiTek USA, Inc.

250 Klug Circle
Corona, CA 92880
951-245-9525

Re: 213564-A
SE Madison

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Trus-way Inc.

Pages or sheets covered by this seal: K9780478 thru K9780498

My license renewal date for the state of Oregon is December 31, 2021.



June 14, 2021

Baxter, David

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

Job	Truss	Truss Type	Qty	Ply	SE Madison
213564-A	A01	Monopitch Supported Gable	2	1	
Job Reference (optional)					

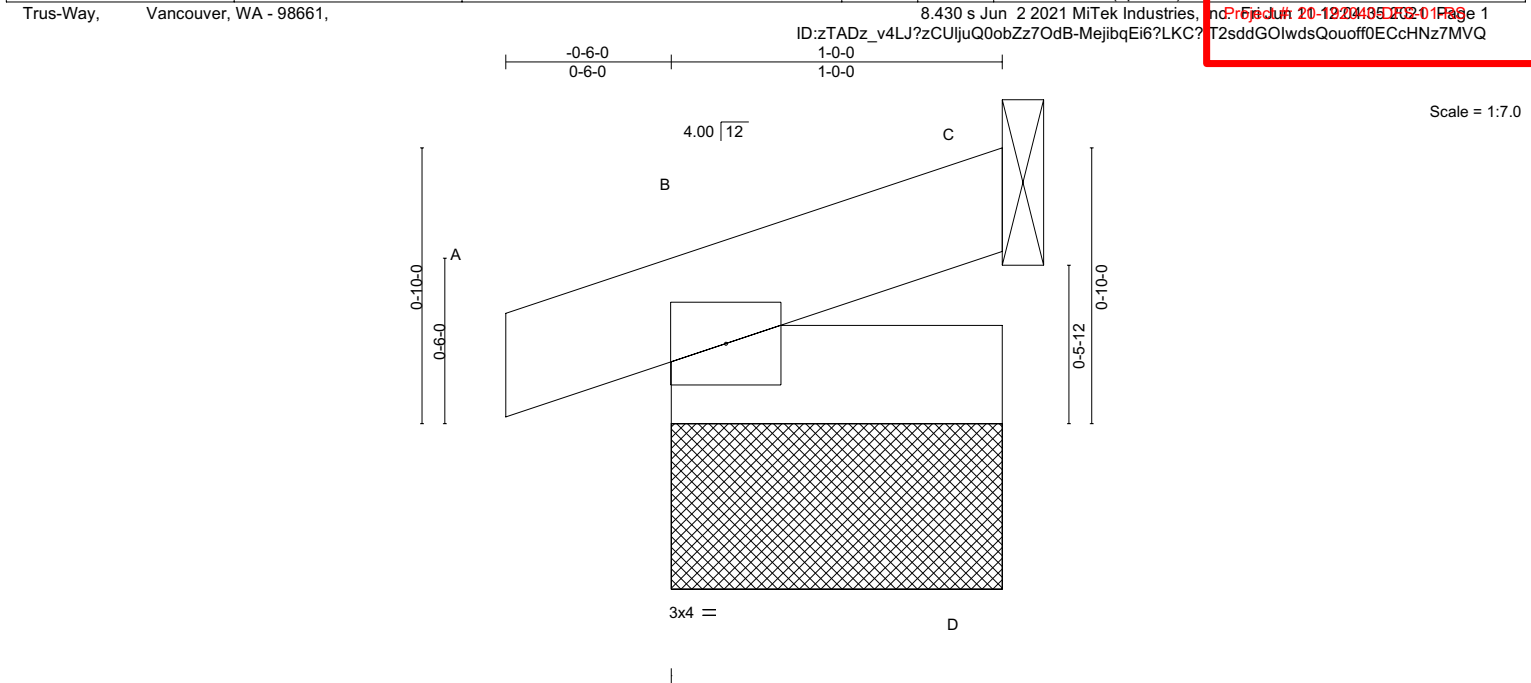
City of Portland

Reviewed for code compliance

Date: 07/29/21

8.430 s Jun 2 2021 MiTek Industries, Inc. Product 10-12-2019 10:02:01 Page 1

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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.04	Vert(LL)	-0.00	B >999	240	MT20	220/195
Snow (Pf/Pg) 20.8/30.0	Plate Grip DOL 1.15	BC 0.00	Vert(CT)	-0.00	B >999	180		
TCDL 7.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	-0.00	C n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Wind(LL)	0.00	B ****	360		
BCDL 10.0	Code IRC2018/TPI2014						Weight: 4 lb	FT = 8%

LUMBER-	BRACING-
TOP CHORD 2x4 DF No.1&Btr G	TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins.
BOT CHORD 2x4 DF No.1&Btr G	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.	(size) B=1-0-0, D=1-0-0, C=Mechanical
	Max Horz B=12(LC 14)
	Max Uplift B=-35(LC 14), C=-47(LC 18)
	Max Grav B=144(LC 18), D=13(LC 7), C=5(LC 15)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) TCCL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
 - 6) Plates checked for a plus or minus 4 degree rotation about its center.
 - 7) Gable studs spaced at 1-4-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 10) A plate rating reduction of 20% has been applied for the green lumber members.
 - 11) Refer to girder(s) for truss to truss connections.
 - 12) One RT7 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) B and C. This connection is for uplift only and does not consider lateral forces.
 - 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



RENEWAL DATE: 12-31-2021
June 14, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

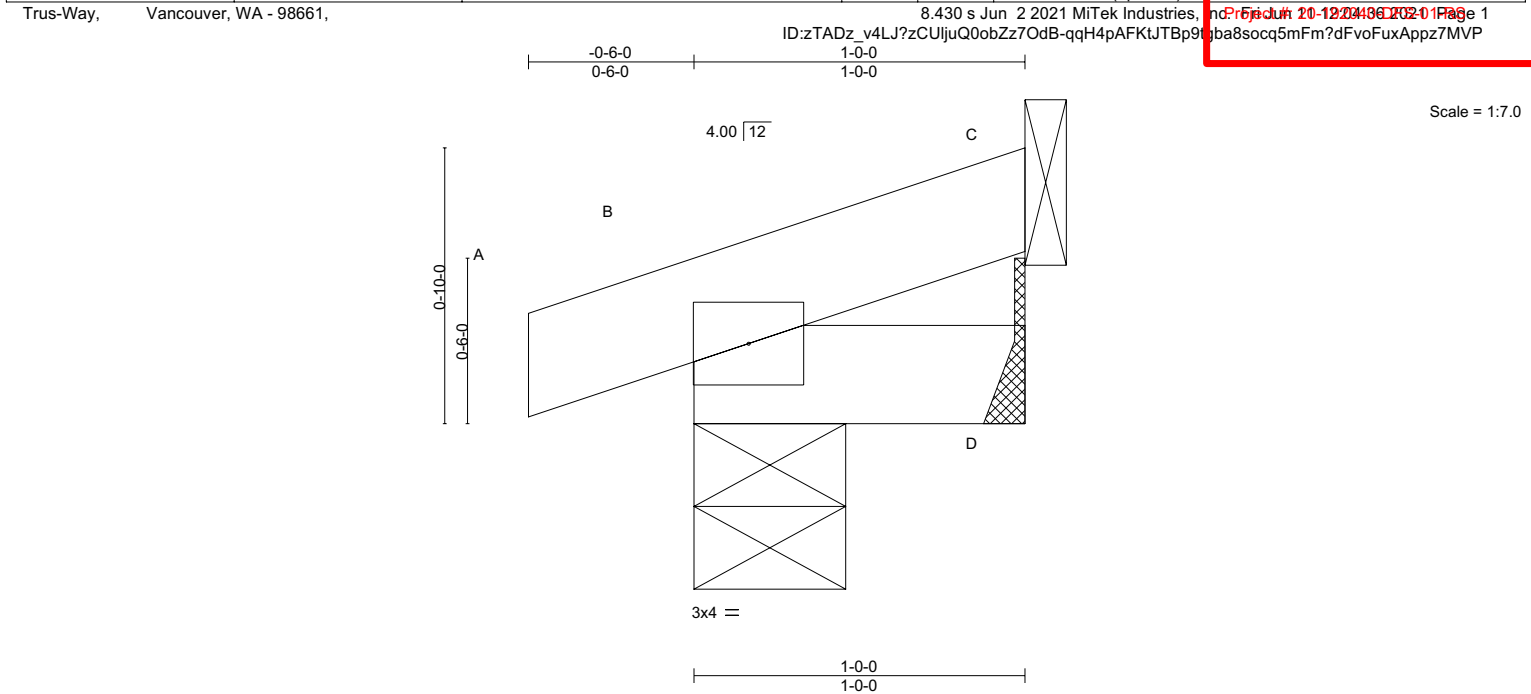


Job	Truss	Truss Type	Qty	Ply	SE Madison
213564-A	A02	Monopitch	2	1	

City of Portland

Reviewed for code compliance

Date: 07/29/21



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	L/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.02	Vert(LL)	0.00	G >999	240	MT20	220/195
Snow (Pf/Pg) 20.8/30.0	Plate Grip DOL 1.15	BC 0.00	Vert(CT)	-0.00	G >999	180		
TCDL 7.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	-0.00	B n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP	Wind(LL)	0.00	G >999	360		
BCDL 10.0	Code IRC2018/TPI2014						Weight: 4 lb	FT = 8%

LUMBER-	BRACING-
TOP CHORD 2x4 DF No.1&Btr G	TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins.
BOT CHORD 2x4 DF No.1&Btr G	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS. (size) B=0-5-8, D=Mechanical, C=Mechanical	
Max Horz B=14(LC 14)	
Max Uplift B=-16(LC 14), C=-5(LC 14)	
Max Grav B=90(LC 19), D=16(LC 7), C=25(LC 19)	
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCCL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
 - 5) Plates checked for a plus or minus 4 degree rotation about its center.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 8) A plate rating reduction of 20% has been applied for the green lumber members.
 - 9) Refer to girder(s) for truss to truss connections.
 - 10) Refer to girder(s) for truss to truss connections.
 - 11) One RT7 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) B and C. This connection is for uplift only and does not consider lateral forces.
 - 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

REGISTERED PROFESSIONAL ENGINEER

89200PE

DAVID MERRILL BAXTER

OREGON

MAY 14, 2014

RENEWAL DATE: 12-31-2021

June 14, 2021

Job	Truss	Truss Type	Qty	Ply	SE Madison
213564-A	B01	Common Supported Gable	1	1	

City of Portland

Reviewed for code compliance

Date: 07/29/21

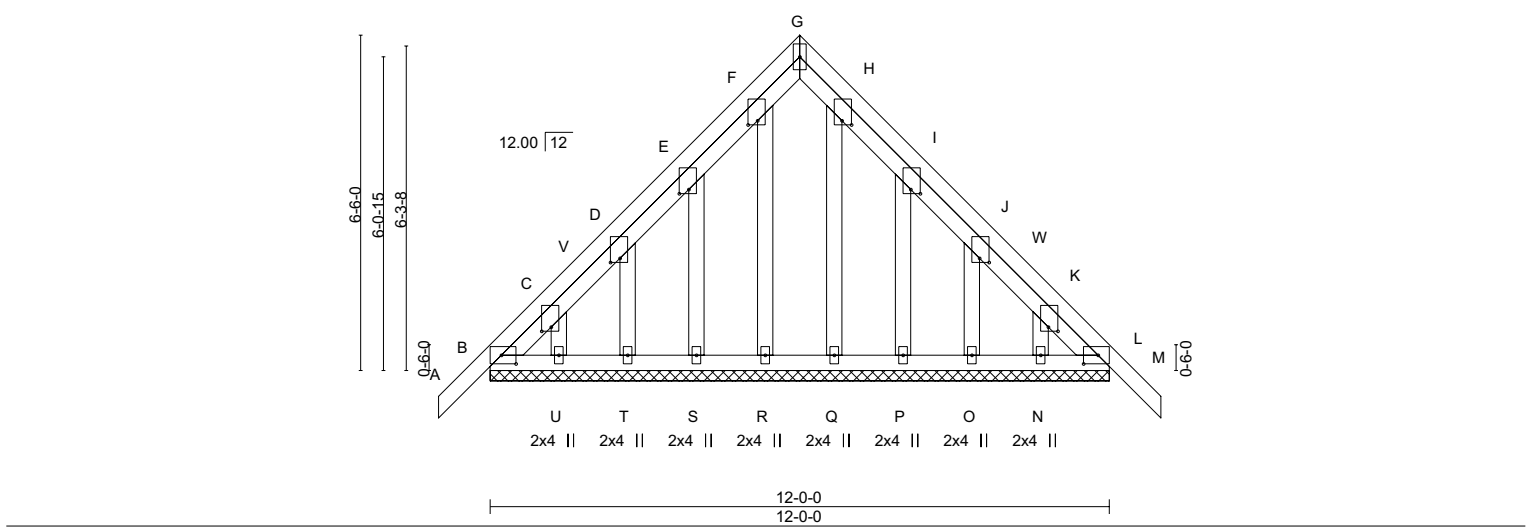
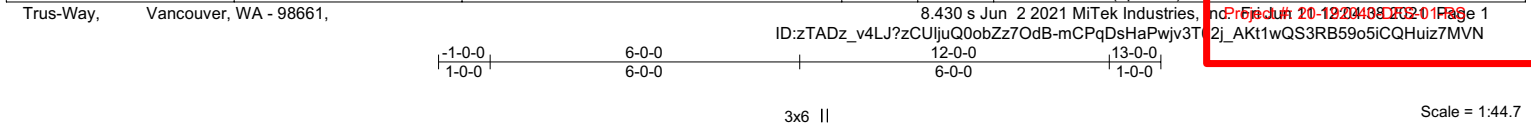


Plate Offsets (X,Y)--	[B:0-3-6,0-2-0], [C:0-1-0,0-2-4], [D:0-0-15,0-2-4], [E:0-1-0,0-2-4], [F:0-0-15,0-2-4], [H:0-1-0,0-2-4], [I:0-1-0,0-2-4], [J:0-1-0,0-2-4], [K:0-1-0,0-2-4], [L:0-3-6,0-2-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.07	in (loc) l/defl L/d	MT20	220/195
Snow (Pf/Pg) 20.8/30.0	Plate Grip DOL 1.15	BC 0.02	Vert(LL) -0.00 M n/r 120		
TCDL 7.0	Lumber DOL 1.15	WB 0.04	Vert(CT) -0.00 M n/r 90		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 L n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 99 lb	FT = 8%

LUMBER-	BRACING-
TOP CHORD 2x4 DF No.1&Btr G	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 DF No.1&Btr G	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 DF Stud/Std G	

REACTIONS. All bearings 12-0-0.
 (lb) - Max Horz B=-130(LC 20)
 Max Uplift All uplift 100 lb or less at joint(s) B, L, S, T, U, P, O, N
 Max Grav All reactions 250 lb or less at joint(s) B, L, R, S, T, U, Q, P, O, N

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 3-0-0, Corner(3R) 3-0-0 to 9-0-0, Exterior(2N) 9-0-0 to 10-0-0, Corner(3E) 10-0-0 to 13-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
 - All plates are 4x6 MT20 unless otherwise indicated.
 - Plates checked for a plus or minus 4 degree rotation about its center.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 1-4-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - A plate rating reduction of 20% has been applied for the green lumber members.
 - One RT7 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) B, L, S, T, U, P, O, and N. This connection is for uplift only and does not consider lateral forces.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) L.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



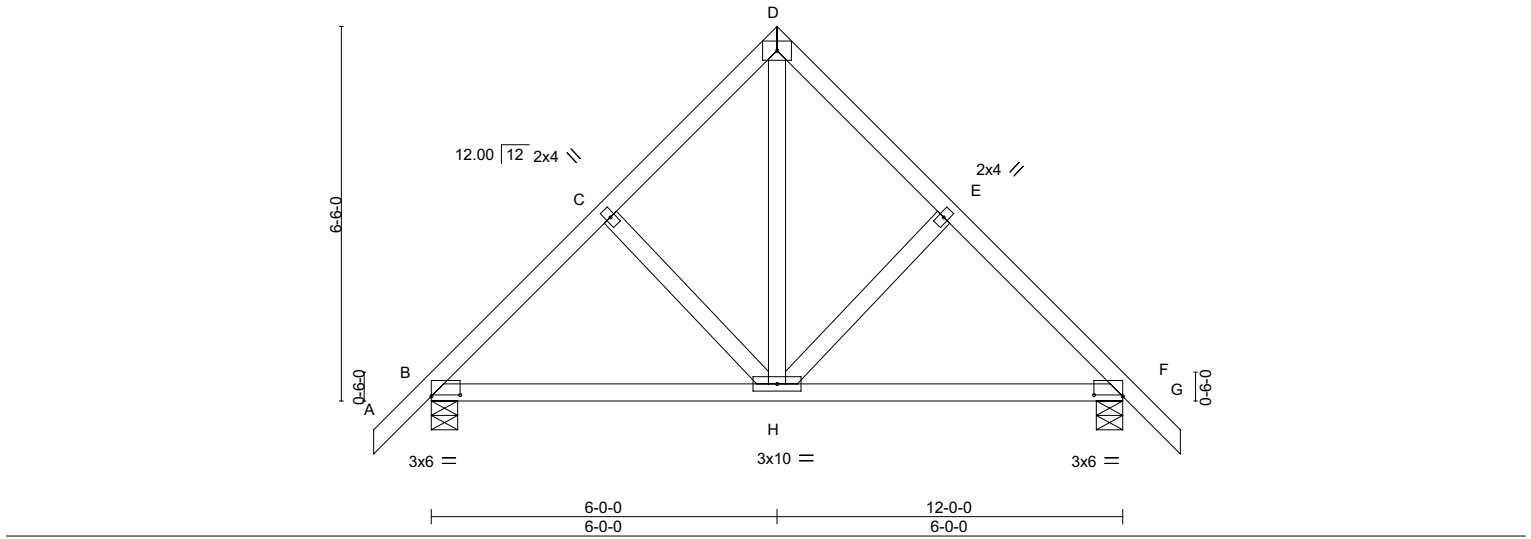
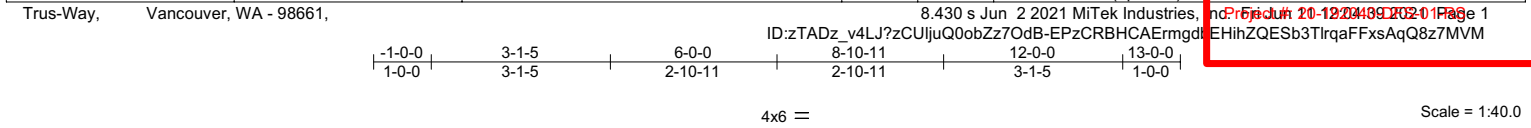
RENEWAL DATE: 12-31-2021
 June 14,2021

Job	Truss	Truss Type	Qty	Ply	SE Madison
213564-A	B02	QUEENPOST	1	1	

City of Portland

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Date: 07/29/21



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	-0.02 H-N >999	MT20		220/195	
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.05 H-N >999				
TCDL	7.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.01 F n/a				
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MP		Wind(LL)	0.00 H >999				
BCDL	10.0										

LUMBER-		BRACING-	
TOP CHORD	2x4 DF No.1&Btr G	TOP CHORD	Structural wood sheathing directly applied or 6'-0" oc purlins.
BOT CHORD	2x4 DF No.1&Btr G	BOT CHORD	Rigid ceiling directly applied or 10'-0" oc bracing.
WEBS	2x4 DF Stud/Std G		

REACTIONS.	
(size)	B=0-5-8, F=0-5-8
Max Horz	B=134(LC 11)
Max Uplift	B=-54(LC 12), F=-54(LC 12)
Max Grav	B=568(LC 2), F=568(LC 2)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	B-C=-558/135, C-D=-436/154, D-E=-436/154, E-F=-558/135
BOT CHORD	B-H=0/384, F-H=0/358
WEBS	D-H=-132/348

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 3-0-0, Exterior(2R) 3-0-0 to 8-11-15, Interior(1) 8-11-15 to 10-0-0, Exterior(2E) 10-0-0 to 13-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
 - Plates checked for a plus or minus 4 degree rotation about its center.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-0" wide will fit between the bottom chord and any other members.
 - A plate rating reduction of 20% has been applied for the green lumber members.
 - One RT7 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) B and F. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



RENEWAL DATE: 12-31-2021
June 14, 2021

Job	Truss	Truss Type	Qty	Ply	SE Madison
213564-A	B03	Common	2	1	
Job Reference (optional)					

City of Portland

Reviewed for code compliance

Date: 07/29/21

K9780462

Truss-Way, Vancouver, WA - 98661,

8.430 s Jun 2 2021 MiTek Industries, Inc. Product 10-12-20140102-01 Page 1

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4x6 =

Scale = 1:40.0

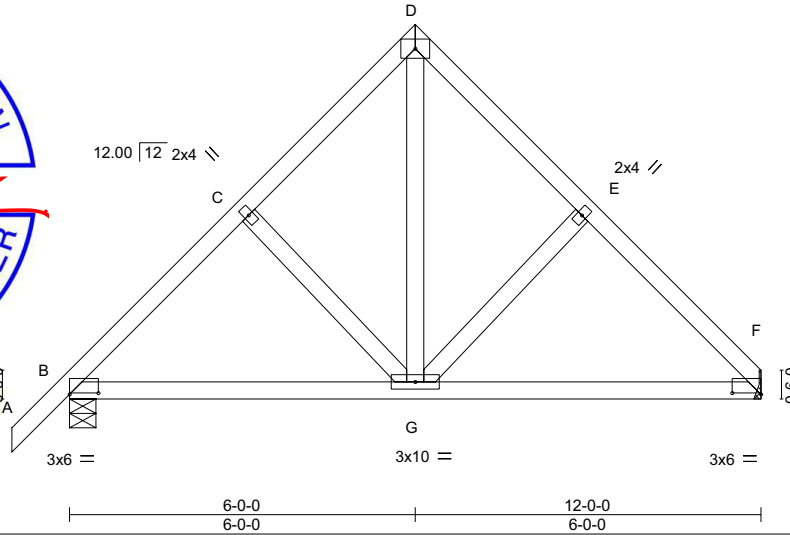


Plate Offsets (X,Y)-- [B:0-6-0,0-0-5], [F:0-6-0,0-0-5]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.08	Vert(LL)	-0.02	G-J	>999	MT20	220/195
Snow (Pf/Pg) 20.8/30.0	Plate Grip DOL 1.15	BC 0.19	Vert(CT)	-0.06	G-J	>999		
TCDL 7.0	Lumber DOL 1.15	WB 0.16	Horz(CT)	0.00	F	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP	Wind(LL)	0.01	G-J	>999	Weight: 62 lb	FT = 8%
BCDL 10.0	Code IRC2018/TPI2014							

LUMBER-

TOP CHORD 2x4 DF No.1&Btr G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G

BRACING-

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

REACTIONS.

(size) F=Mechanical, B=0-5-8
Max Horz B=128(LC 11)
Max Uplift F=-23(LC 12), B=-56(LC 12)
Max Grav F=501(LC 2), B=571(LC 2)

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

TOP CHORD B-C=-562/140, C-D=-440/159, D-E=-441/161, E-F=-551/141
BOT CHORD B-G=-41/376, F-G=-47/365
WEBS D-G=-140/356

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 3-0-0, Exterior(2R) 3-0-0 to 8-11-15, Exterior(2E) 8-11-15 to 12-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
- Plates checked for a plus or minus 4 degree rotation about its center.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- A plate rating reduction of 20% has been applied for the green lumber members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) F.
- One RT7 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) B. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

June 14,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



250 Klug Circle
Corona, CA 92880

[illegible]

LUMBER-		BRACING-	
TOP CHORD	2x4 DF No.1&Btr G	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): F-H.
BOT CHORD	2x6 DF SS G		
WEBS	2x4 DF Stud/Std G *Except*	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
	C-N,E-L,F-J,H-J: 2x4 DF No.1&Btr G		

NOTES-

- 1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 3 rows staggered at 0-5-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
- 7) Provide adequate drainage to prevent water ponding.
- 8) All plates are MT20 plates unless otherwise indicated.
- 9) Plates checked for a plus or minus 4 degree rotation about its center.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 12) A plate rating reduction of 20% has been applied for the green lumber members.



Job	Truss	Truss Type	Qty	Ply	SE Madison
213564-A	B04	ROOF SPECIAL GIRDER	1	3	Job Reference (optional)

City of Portland

Reviewed for code compliance

Date: 07/29/21

Trus-Way, Vancouver, WA - 98661,

8.430 s Jun 2 2021 MiTek Industries, Inc. Product 10-1220444-002-01Page 2

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NOTES-

- 13) One RT7 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) I and B. This connection is for uplift only and does not consider lateral forces.
- 14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 16) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-11-4 from the left end to 9-11-4 to connect truss(es) to front face of bottom chord.
- 17) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 12-0-12 from the left end to connect truss(es) to back face of bottom chord.
- 18) Fill all nail holes where hanger is in contact with lumber.
- 19) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: A-D=-56, D-F=-56, F-H=-56, I-O=-20
 - Concentrated Loads (lb)
 - Vert: M=-146(F) H=13 S=-12(B) T=-22(B) U=-22(B) V=-146(F) W=-146(F) X=-227(F) Y=-227(F) Z=-2124(F=-1749, B=-376) AA=-1841(F=-1835, B=-6) AB=-1841(F=-1835, B=-6)

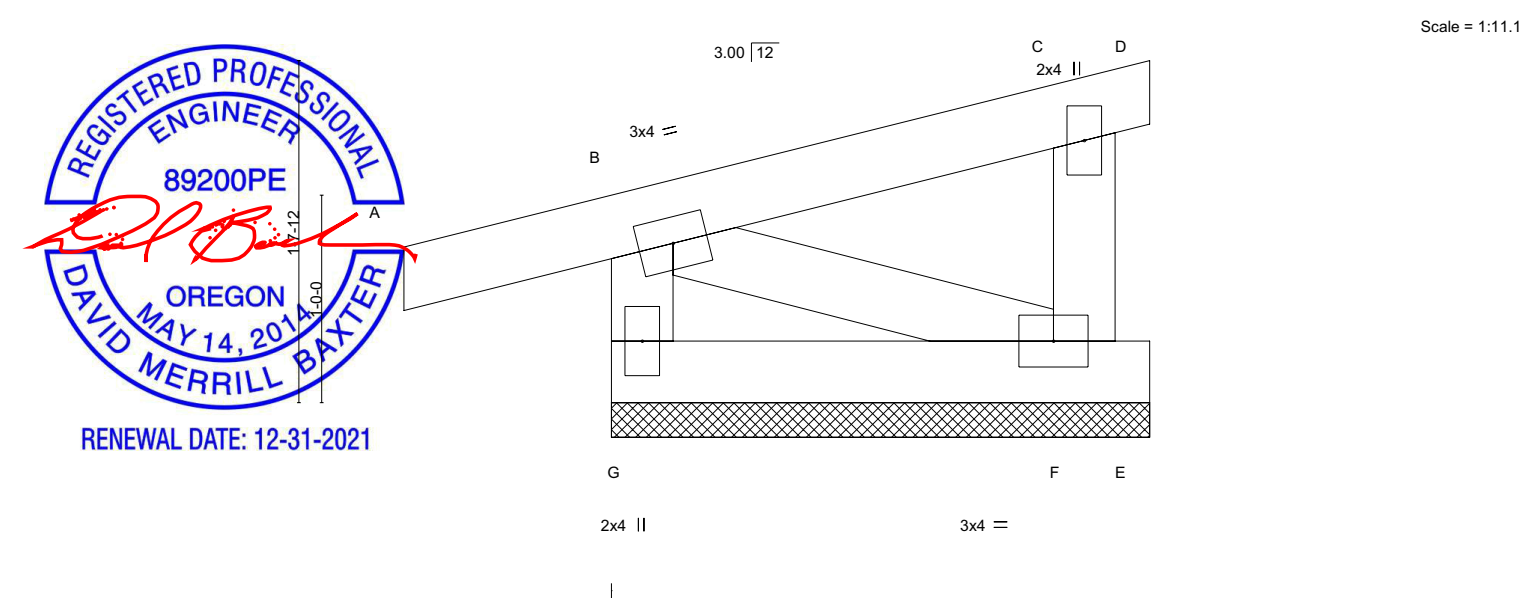
Job	Truss	Truss Type	Qty	Ply	SE Madison
213564-A	C01	Jack-Open Supported Gable	1	1	

City of Portland

Reviewed for code compliance

Date: 07/29/21

Truss-Way, Vancouver, WA - 98661, ID:zTADz_v4LJ?zCUljuQ0obZz7OdB-3ZKUhFMzI4cvOY 8.430 s Jun 2 2021 MiTek Industries, Inc. 6 Jun 20-12:04:45 2021 Page 1



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.09	in (loc) l/defl L/d	MT20	220/195
Snow (Pf/Pg) 20.8/30.0	Plate Grip DOL 1.15	BC 0.02	Vert(LL) -0.00 A n/r 120		
TCDL 7.0	Lumber DOL 1.15	WB 0.02	Vert(CT) -0.00 A n/r 90		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) -0.00 D n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 13 lb	FT = 8%

LUMBER-	BRACING-
TOP CHORD 2x4 DF No.1&Btr G	TOP CHORD Structural wood sheathing directly applied or 2-7-2 oc purlins, except end verticals.
BOT CHORD 2x4 DF No.1&Btr G	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 DF Stud/Std G	

REACTIONS. (size) G=2-7-2, D=2-7-2, F=2-7-2, E=2-7-2
Max Horz G=42(LC 11)
Max Uplift G=-51(LC 10), D=-24(LC 19), F=-13(LC 18), E=-57(LC 7)
Max Grav G=207(LC 19), D=55(LC 18), F=172(LC 19)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -1-0-0 to 2-3-6, Exterior(2N) 2-3-6 to 2-7-2 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
 - 6) Plates checked for a plus or minus 4 degree rotation about its center.
 - 7) Gable requires continuous bottom chord bearing.
 - 8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 9) Gable studs spaced at 1-4-0 oc.
 - 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 12) A plate rating reduction of 20% has been applied for the green lumber members.
 - 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D.
 - 14) One RT7 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) G, E, and F. This connection is for uplift only and does not consider lateral forces.
 - 15) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

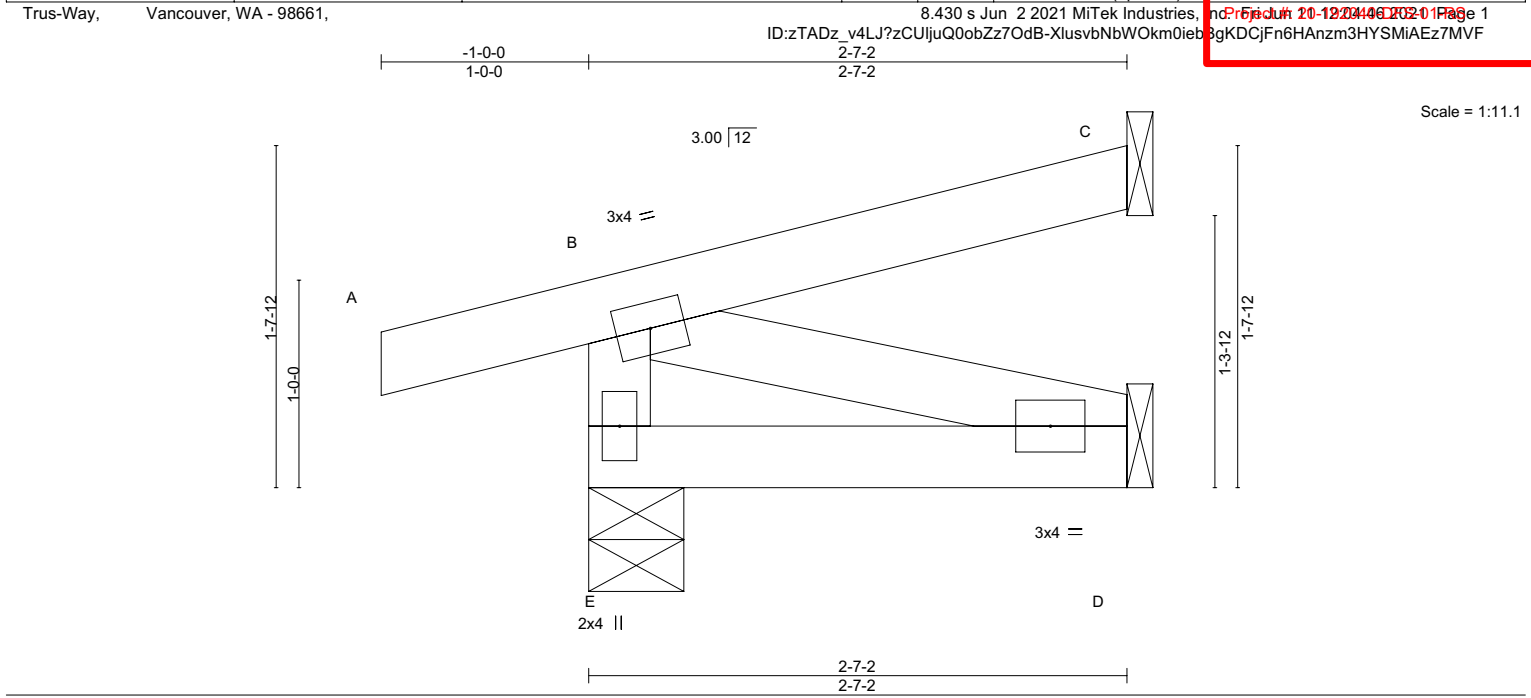
June 14,2021

Job	Truss	Truss Type	Qty	Ply	SE Madison
213564-A	C02	Jack-Open	2	1	

City of Portland

Reviewed for code compliance

Date: 07/29/21



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.09	Vert(LL)	-0.00	D-E	>999	MT20	220/195
Snow (Pf/Pg) 20.8/30.0	Plate Grip DOL 1.15	BC 0.04	Vert(CT)	-0.01	D-E	>999		
TCDL 7.0	Lumber DOL 1.15	WB 0.02	Horz(CT)	-0.00	C	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP	Wind(LL)	0.00	E	****		
BCDL 10.0	Code IRC2018/TPI2014						Weight: 13 lb	FT = 8%

LUMBER-	BRACING-
TOP CHORD 2x4 DF No.1&Btr G	TOP CHORD Structural wood sheathing directly applied or 2-7-2 oc purlins, except end verticals.
BOT CHORD 2x4 DF No.1&Btr G	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 DF Stud/Std G	

REACTIONS. (size) E=0-5-8, C=Mechanical, D=Mechanical
Max Horz E=40(LC 14)
Max Uplift E=44(LC 10), C=-15(LC 10)
Max Grav E=227(LC 19), C=71(LC 19), D=49(LC 7)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
 - 5) Plates checked for a plus or minus 4 degree rotation about its center.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 8) A plate rating reduction of 20% has been applied for the green lumber members.
 - 9) Refer to girder(s) for truss to truss connections.
 - 10) One RT7 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) E and C. This connection is for uplift only and does not consider lateral forces.
 - 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



RENEWAL DATE: 12-31-2021
June 14,2021

250 Klug Circle
Corona, CA 92880

Job	Truss	Truss Type	Qty	Ply	SE Madison
213564-A	C03	Jack-Open Girder	1	1	

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City of Portland

Reviewed for code compliance

Date: 07/29/21

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-B=-56, B-C=-56, D-E=-20
Concentrated Loads (lb)
Vert: F=-436(F)

Job	Truss	Truss Type	Qty	Ply	SE Madison
213564-A	D01	Common Supported Gable	1	1	

City of Portland

Reviewed for code compliance

Date: 07/29/21

8430 s Jun 2 2021 MiTek Industries, Inc.

Product 10-1200451-002-01

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Truss-Way,	Vancouver, WA - 98661,	8.430 s Jun 2 2021 MiTek Industries, Inc.	Product 10-1200451-002-01	Page 1
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			23-3-0	1-0-0

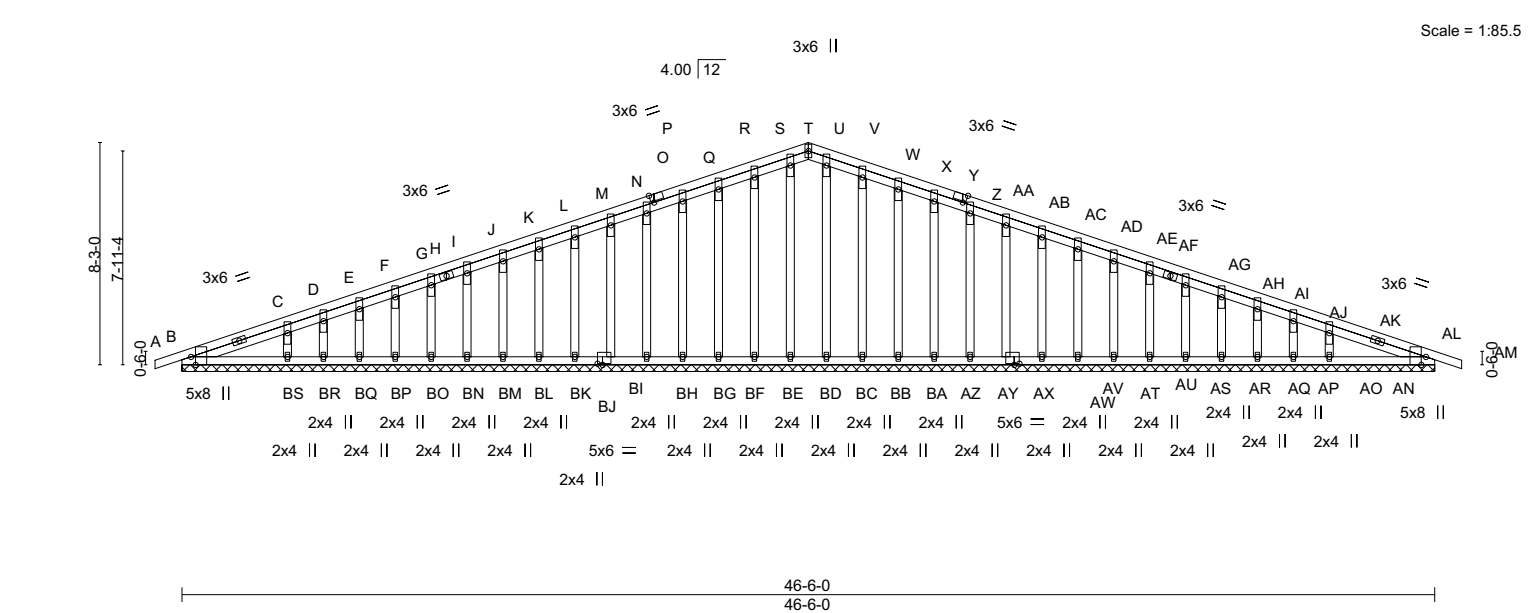


Plate Offsets (X,Y)-- [B:0-3-9,Edge], [O:0-1-4,Edge], [Y:0-1-4,Edge], [AL:0-3-9,Edge], [AW:0-2-4,0-0-9], [BI:0-2-4,0-0-9]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	0.00	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	0.00		
TCDL	7.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-S					
BCDL	10.0							Weight: 369 lb	FT = 8%

LUMBER-		BRACING-	
TOP CHORD	2x4 DF No.1&Btr G	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	2x4 DF No.1&Btr G	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x4 DF Stud/Std G		

REACTIONS. All bearings 46-6-0.
 (lb) - Max Horz B=85(LC 13)
 Max Uplift All uplift 100 lb or less at joint(s) AL, BE, BF, BG, BH, BI, BK, BL, BM, BN, BO, BP, BQ, BR, BS, BB, BA, AZ, AY, AX, AV, AU, AT, AS, AR, AQ, AP, AO, AN, B
 Max Grav All reactions 250 lb or less at joint(s) AL, BD, BE, BF, BG, BH, BI, BK, BL, BM, BN, BO, BP, BQ, BR, BC, BB, BA, AZ, AY, AX, AV, AU, AT, AS, AR, AQ, AP, AO, B except BS=316(LC 32), AN=316(LC 33)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=47ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -1-0-0 to 3-11-0, Exterior(2N) 3-11-0 to 18-6-15, Corner(3R) 18-6-15 to 27-11-1, Exterior(2N) 27-11-1 to 42-7-1, Corner(3E) 42-7-1 to 47-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
 - All plates are 3x10 MT20 unless otherwise indicated.
 - Plates checked for a plus or minus 4 degree rotation about its center.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 1-4-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - A plate rating reduction of 20% has been applied for the green lumber members.
 - One RT7 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) AL, BE, BF, BG, BH, BI, BK, BL, BM, BN, BO, BP, BQ, BR, BS, BB, BA, AZ, AY, AX, AV, AU, AT, AS, AR, AQ, AP, AO, AN, and B. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



RENEWAL DATE: 12-31-2021
 June 14,2021

Date: 07/29/21

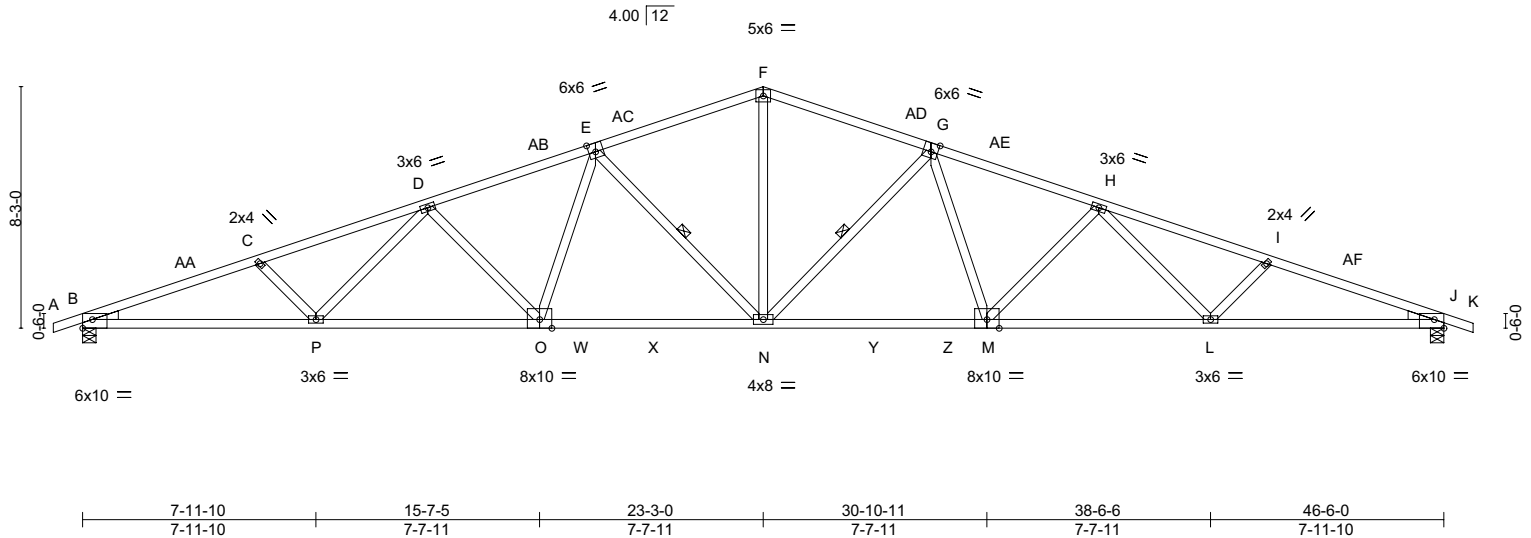
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Trus-Way, Vancouver, WA - 98661,

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Scale = 1:78.7

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LUMBER-

TOP CHORD	2x4 DF No.1&Btr G
BOT CHORD	2x4 DF No.1&Btr G
WEBS	2x4 DF Stud/Std G
WEDGE	

Left: 2x4 DF Stud/Std -G , Right: 2x4 DF Stud/Std -G

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-5-1 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	1 Row at midpt E-N, G-N

REACTIONS.

(size) B=0-5-8, J=0-5-8
Max Horz B=-87(LC 12)
Max Uplift B=-126(LC 14), J=-126(LC 14)
Max Grav B=2110(LC 28), J=2110(LC 28)

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

TOP CHORD B-C=-5203/675, C-D=-5036/640, D-E=-4287/604, E-F=-3297/530, F-G=-3297/530,
G-H=-4287/604, H-I=-5036/640, I-J=-5203/675

BOT CHORD B-P=-574/4906, O-P=-498/4431, N-O=-394/3781, M-N=-394/3781, L-M=-498/4427, J-L=-574/4882

WEBS C-P=-290/122, D-P=0/509, D-O=-644/145, E-O=-17/804, E-N=-1073/186, F-N=-177/1770,
G-N=-1073/186, G-M=-17/804, H-M=-644/145, H-L=0/509, I-L=-290/122

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TC DL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=47ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 3-7-13, Interior(1) 3-7-13 to 18-7-3, Exterior(2R) 18-7-3 to 27-10-13, Interior(1) 27-10-13 to 42-10-3, Exterior(2E) 42-10-3 to 47-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
- 6) Plates checked for a plus or minus 4 degree rotation about its center.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) A plate rating reduction of 20% has been applied for the green lumber members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=126, J=126.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



RENEWAL DATE: 12-31-2021
June 14, 2021



WARNING – verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MH/473 Rev. 3/19/2020 BEFORE USE. Design valid for use only with MitefK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 26627 Crain Highway, Suite 203 Waldorf, MD 20601



250 Klug Circle
Corona, CA 92880

Job	Truss	Truss Type	Qty	Ply	SE Madison
213564-A	D03	ATTIC	2	1	
Job Reference (optional)					

Trus-Way,		Vancouver, WA - 98661,		8.430 s Jun 2 2021 MiTek Industries, Inc. Product 20-12-0455-02-01 Page 1									
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1-0-0	6-0-11	5-8-12	3-9-13	1-10-15	3-8-12	2-0-0	2-0-0	3-8-12	5-8-12	5-8-12	6-0-11	1-0-0	

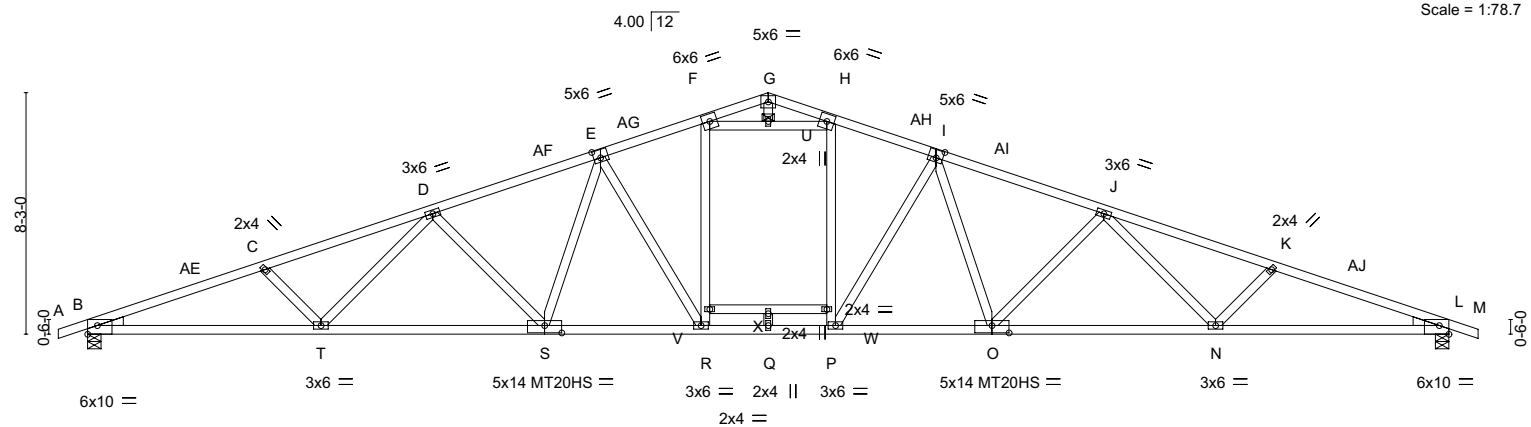


Plate Offsets (X,Y)-- [B:Edge,0-3-9], [E:0-2-12,0-3-4], [I:0-2-12,0-3-4], [L:Edge,0-3-9], [O:0-7-0,0-3-0], [S:0-7-0,0-3-0]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	-0.58	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-1.20	MT20HS	165/146
TCDL	7.0	Rep Stress Incr	NO	WB	0.89	Horz(CT)	0.33		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MS		Wind(LL)	0.23	Weight: 242 lb	FT = 8%
BCDL	10.0								

LUMBER-		BRACING-	
TOP CHORD	2x4 DF No.1&Btr G	TOP CHORD	Structural wood sheathing directly applied or 2-4-5 oc purlins.
BOT CHORD	2x4 DF No.1&Btr G	BOT CHORD	Rigid ceiling directly applied or 8-5-9 oc bracing.
WEBS	2x4 DF Stud/Std G	WEBS	1 Row at midpt F-H
WEDGE			
Left: 2x4 DF Stud/Std -G , Right: 2x4 DF Stud/Std -G			

REACTIONS. (size) L=0-5-8, B=0-5-8
Max Horz B=-87(LC 12)
Max Uplift L=-130(LC 14), B=-130(LC 14)
Max Grav L=2113(LC 2), B=2113(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-5216/727, C-D=-5007/693, D-E=-4303/662, E-F=-3626/623, F-G=-1095/231, G-H=-1095/231, H-I=-3626/623, I-J=-4303/662, J-K=-5007/693, K-L=-5216/727
BOT CHORD B-T=-623/4883, S-T=-555/4458, R-S=-443/3824, Q-R=-366/3369, P-Q=-366/3369, O-P=-443/3824, N-O=-555/4458, L-N=-623/4883
WEBS C-T=-281/118, D-T=0/417, D-S=-643/150, E-S=-30/715, E-R=-1020/145, I-P=-1020/145, I-O=-30/715, G-U=-87/520, J-O=-643/150, R-V=-81/843, F-V=-91/903, J-N=0/417, K-N=-281/118, P-W=-81/843, H-W=-91/903, F-U=-2407/407, H-U=-2407/407

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=47ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 3-7-13, Interior(1) 3-7-13 to 18-7-3, Exterior(2R) 18-7-3 to 27-10-13, Interior(1) 27-10-13 to 42-10-3, Exterior(2E) 42-10-3 to 47-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
 - All plates are MT20 plates unless otherwise indicated.
 - Plates checked for a plus or minus 4 degree rotation about its center.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - A plate rating reduction of 20% has been applied for the green lumber members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) L=130, B=130.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and

Continued on page 2 and ANSI/TPI 1.



RENEWAL DATE: 12-31-2021
June 14,2021

Job	Truss	Truss Type	Qty	Ply	SE Madison
213564-A	D03	ATTIC	2	1	

Trus-Way, Vancouver, WA - 98661, 8.430 s Jun 2 2021 MiTek Industries, Inc. Product 10-12-201455-202-01Page 2
ID:zTADz_v4LJ?zCUljuQ0obZz7OdB-mUwGogUFO9sVb4gD3_K4c7Agw0KaeabdL2g_Cz7MV6

City of Portland

Reviewed for code compliance

Date: 07/29/21

- NOTES-**
- 13) Attic room checked for L/360 deflection.
- 14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

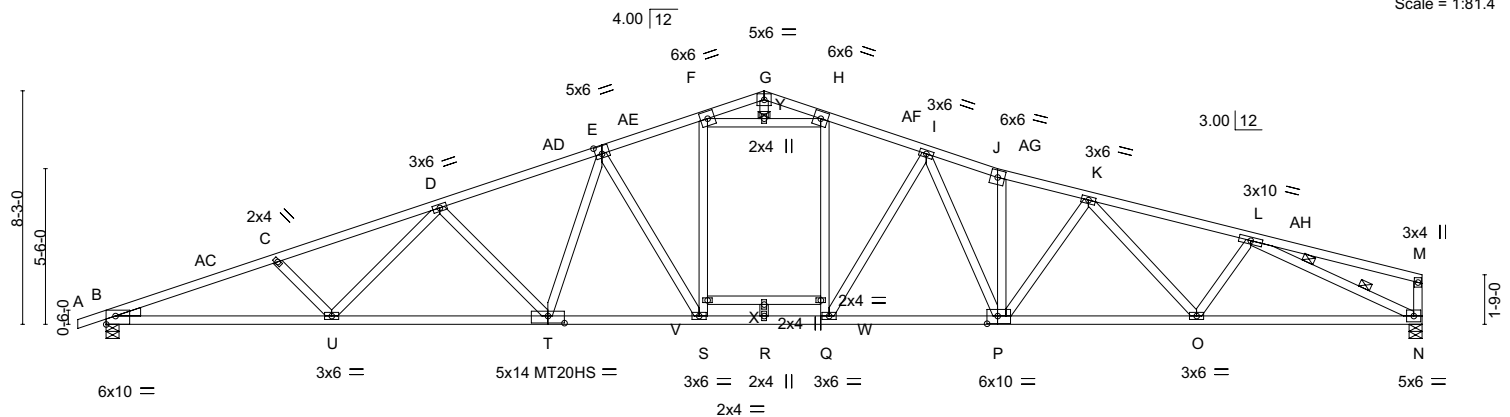
Uniform Loads (plf)

Vert: A-G=-56, G-M=-56, Y-AB=-20, V-W=-40(F)

8.430 s Jun 2 2021 MiTek Industries, Inc. Filed Jun 20-120457 DUS-01 Page 1

1-0-0	6-0-11	11-9-8	15-7-5	17-6-4	21-3-0	23-3-0	25-3-0	28-11-12	31-6-0	34-8-8	40-5-4	46-6-0
1-0-0	6-0-11	5-8-12	3-9-13	1-10-15	3-8-12	2-0-0	2-0-0	3-8-12	2-6-4	3-2-8	5-8-12	6-0-12

Scale = 1:81.4



	7-11-10	15-7-5	21-3-0	23-3-0	25-3-0	30-10-11	31-6-0	38-6-6	46-6-0
Plate Offsets (X,Y)--	7-11-10	7-7-11	5-7-11	2-0-0	2-0-0	5-7-11	0-7-5	7-0-6	7-11-10

[illegible]

TOP CHORD 2x4 DF No.1&Btr G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G
WEDGE
Left: 2x4 DF Stud/Std -G

TOP CHORD	Structural wood sheathing directly applied or 2-4-6 oc purlins, except end verticals.	
BOT CHORD	Rigid ceiling directly applied or 8-3-15 oc bracing.	
WEBS	1 Row at midpt	F-H
	2 Rows at 1/3 pts	L-N

(size) B=0-5-8, N=0-5-8
Max Horz B=106(LC 13)
Max Uplift B=-130(LC 14), N=-101(LC 14)
Max Grav B=2107(LC 2), N=2042(LC 2)

TOP CHORD B-C=5200/727, C-D=4991/693, D-E=4285/662, E-F=3608/623, F-G=-1081/226,
G-H=-1082/228, H-I=-3603/620, I-J=-4290/686, J-K=-4220/652, K-L=-4055/589
BOT CHORD B-U=-643/4867, T-U=-574/4441, S-T=-463/3807, R-S=-386/3353, Q-R=-386/3353,
P-Q=-461/3781, O-P=-521/4127, N-O=-477/3617
WEBS C-U=282/118, D-U=0/418, D-T=643/150, J-P=-448/97, K-P=-294/101, E-T=-307/16,
E-S=-1007/145, I-Q=-975/142, I-P=-70/762, S-V=-82/840, F-V=-93/898, Q-W=-69/820,
H-W=-80/877, F-Y=-2405/411, H-Y=-2405/411, G-Y=-88/520, K-O=-365/95, L-O=0/501,
L-N=-3885/541

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TC DL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=47ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 3-7-13, Interior(1) 3-7-13 to 18-7-3, Exterior(2R) 18-7-3 to 27-10-13, Interior(1) 27-10-13 to 41-8-7, Exterior(2E) 41-8-7 to 46-4-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TOLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) Plates checked for a plus or minus 4 degree rotation about its center.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) A plate rating reduction of 20% has been applied for the green lumber members.
- 11) One RT7 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) B and N. This connection is for uplift only and does not consider lateral forces.



RENEWAL DATE: 12-31-2021
June 14, 2021

Continued on page 2

 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE

WARNING - verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIH/473 Rev. 3/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2607 Grain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



250 Klug Circle
Corona, CA 92880

Job	Truss	Truss Type	Qty	Ply	SE Madison
213564-A	D04	ATTIC	1	1	
Job Reference (optional)					

City of Portland

Reviewed for code compliance

Date: 07/29/21

Trus-Way, Vancouver, WA - 98661,

8.430 s Jun 2 2021 MiTek Industries, Inc. Product 10-1220457-002-01 Page 2

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NOTES-

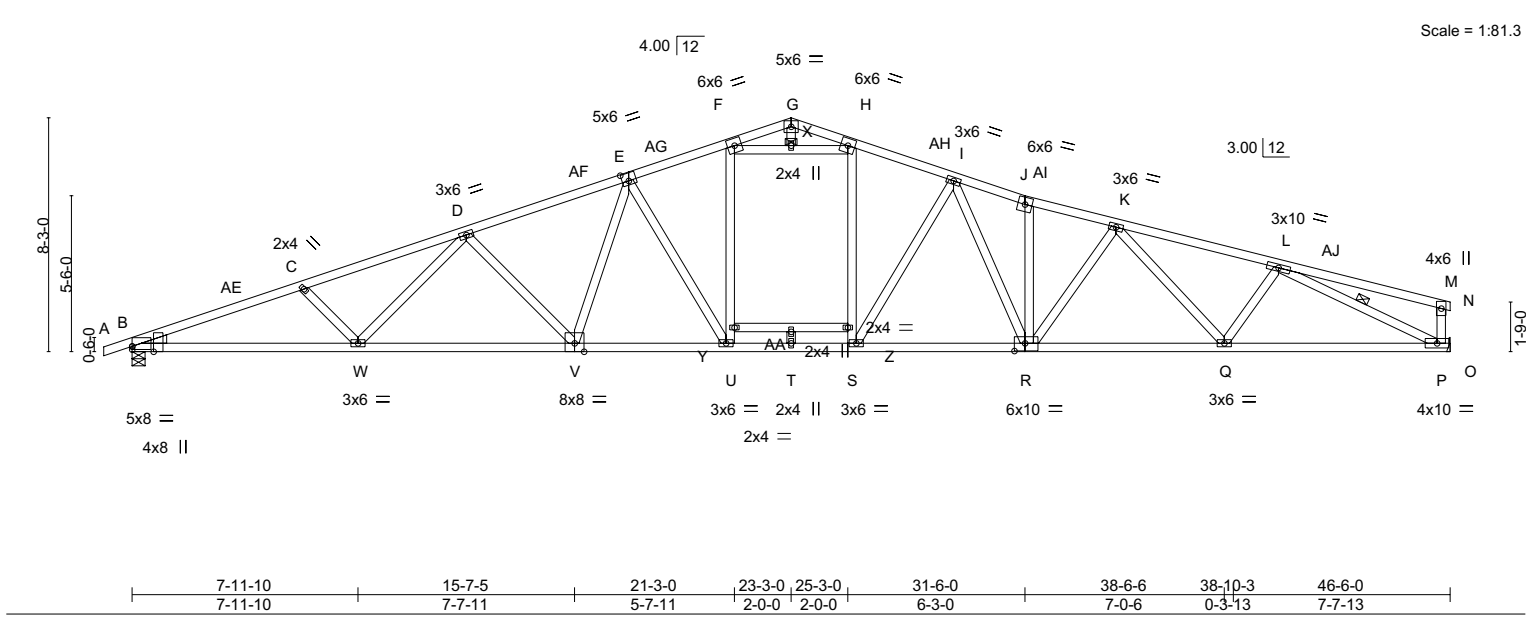
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Attic room checked for L/360 deflection.
- 14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: A-G=-56, G-J=-56, J-M=-56, N-Z=-20, V-W=-40(F)

Job	Truss	Truss Type	Qty	Ply	SE Madison
213564-A	D05	ATTIC	2	1	

Trus-Way,		Vancouver, WA - 98661,		8.430 s Jun 2 2021 MiTek Industries, Inc. Product 20-120459-02-01 Page 1									
ID:zTADz_v4LJ?zCUlJuQ0obZz70dBfAme1XISNNw4h74s													
-1-0-0	6-0-11	11-9-8	17-6-4	21-3-0	23-3-0	25-3-0	28-11-12	31-6-0	34-8-8	38-10-3	40-5-4	46-6-0	
1-0-0	6-0-11	5-8-12	5-8-12	3-8-12	2-0-0	2-0-0	3-8-12	2-6-4	3-2-8	4-1-11	1-7-1	6-0-12	



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.90	Vert(LL)	-0.56	U-V	>998	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-1.12	U-V	>495		
TCDL	7.0	Rep Stress Incr	NO	WB	1.00	Horz(CT)	0.32	P	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MS		Wind(LL)	0.21	T	>999	Weight: 256 lb	FT = 8%
BCDL	10.0										

LUMBER-		BRACING-	
TOP CHORD	2x4 DF No.1&Btr G	TOP CHORD	Structural wood sheathing directly applied or 2-4-9 oc purlins, except end verticals.
BOT CHORD	2x4 DF No.1&Btr G	BOT CHORD	Rigid ceiling directly applied or 8-4-8 oc bracing.
WEBS	2x4 DF Stud/Std G	WEBS	1 Row at midpt F-H, L-P
WEDGE			
Left: 2x4 DF Stud/Std -G			

REACTIONS.	
(size)	P=Mechanical, B=0-5-8
Max Horz	B=107(LC 13)
Max Uplift	P=-106(LC 14), B=-130(LC 14)
Max Grav	P=2062(LC 2), B=2099(LC 2)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	B-C=-5178/724, C-D=-4969/690, D-E=-4262/659, E-F=-3584/619, F-G=-1073/225, G-H=-1076/227, H-I=-3576/616, I-J=-4243/680, J-K=-4175/646, K-L=-3960/578, L-M=-260/67, M-P=-274/97
BOT CHORD	B-W=-637/4847, V-W=-568/4420, U-V=-457/3786, T-U=-379/3329, S-T=-379/3329, R-S=-453/3746, Q-R=-511/4069, P-Q=-457/3510
WEBS	C-W=-282/118, D-W=0/418, K-R=-275/115, J-R=-442/96, E-U=-1010/146, D-V=-643/150, E-V=-30/717, I-S=-955/138, U-Y=-82/839, F-Y=-93/897, I-R=-66/742, S-Z=-67/806, H-Z=-78/862, F-X=-2387/409, H-X=-2387/409, K-Q=-413/101, L-Q=0/532, L-P=-3717/520, G-X=-88/516

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=47ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 3-7-13, Interior(1) 3-7-13 to 18-7-3, Exterior(2R) 18-7-3 to 27-10-13, Interior(1) 27-10-13 to 41-10-3, Exterior(2E) 41-10-3 to 46-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
 - Plates checked for a plus or minus 4 degree rotation about its center.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - A plate rating reduction of 20% has been applied for the green lumber members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)



RENEWAL DATE: 12-31-2021
June 14,2021

Job	Truss	Truss Type	Qty	Ply	SE Madison
213564-A	D05	ATTIC	2	1	
Job Reference (optional)					

City of Portland

Reviewed for code compliance

Date: 07/29/21

Trus-Way, Vancouver, WA - 98661,

8.430 s Jun 2 2021 MiTek Industries, Inc. Product 10-1220459-002-01 Page 2

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- NOTES-**
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Attic room checked for L/360 deflection.
- 14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: A-G=-56, G-J=-56, J-M=-56, M-N=-56, O-AB=-20, Y-Z=-40(F)

Job	Truss	Truss Type	Qty	Ply	SE Madison
213564-A	D06	ROOF SPECIAL	1	1	
Job Reference (optional)					

Truss-Way,	Vancouver, WA - 98661,	8.430 s Jun 2 2021 MiTek Industries, Inc. Product 20-12-05-01-02-01 Page 1
ID:zTADz_v4LJ?zCUljuQ0obZz7OdB-belX2jZ?_?deJ?H-TZK5kJtNBqK4e_JqU?HV?Csz7MV0		
-1-0-0	6-0-11	11-9-8
1-0-0	6-0-11	5-8-12
		5-8-12
		3-8-12
		21-3-0
		23-3-0
		25-3-0
		28-11-12
		31-6-0
		34-8-8
		38-10-3
		41-5-4
		46-6-0
		6-0-12

Scale = 1:83.9

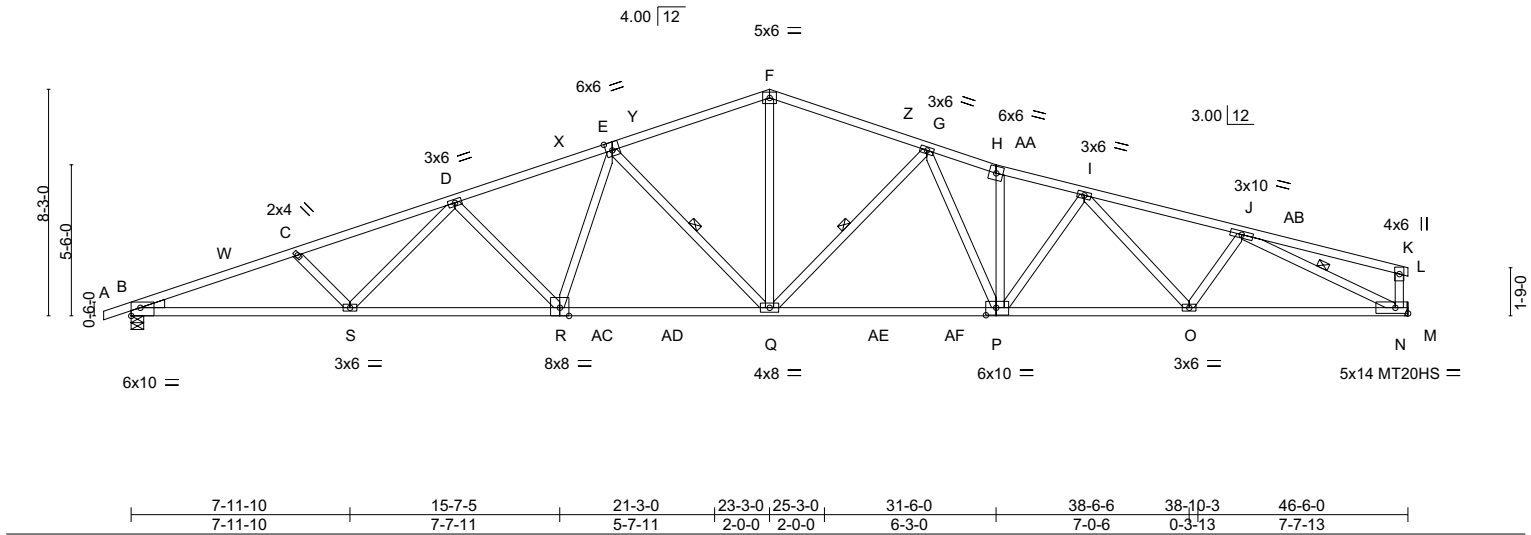


Plate Offsets (X,Y)-- [B:Edge,0-3-9], [E:0-2-12,0-3-8], [P:0-4-8,0-3-4]		7-11-10	15-7-5	21-3-0	23-3-0	25-3-0	31-6-0	38-6-6	38-10-3	46-6-0
		7-11-10	7-7-11	5-7-11	2-0-0	2-0-0	6-3-0	7-0-6	0-3-13	7-7-13
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP
TCLL (roof)	25.0	2-0-0		TC 0.83		in (loc) l/defl L/d		MT20		220/195
Snow (Pf/Pg)	20.8/30.0	Plate Grip DOL 1.15		BC 0.91		Vert(LL) -0.49 P-Q >999 240		MT20HS		165/146
TCDL	7.0	Lumber DOL 1.15		WB 0.98		Vert(CT) -1.12 P-Q >495 180				
BCLL	0.0 *	Rep Stress Incr YES		Matrix-MS		Horz(CT) 0.32 N n/a n/a				
BCDL	10.0	Code IRC2018/TPI2014				Wind(LL) 0.20 R-S >999 360		Weight: 239 lb		FT = 8%

LUMBER-		BRACING-	
TOP CHORD	2x4 DF No.1&Btr G	TOP CHORD	Structural wood sheathing directly applied or 2-5-6 oc purlins, except end verticals.
BOT CHORD	2x4 DF No.1&Btr G	BOT CHORD	Rigid ceiling directly applied or 8-8-9 oc bracing.
WEBS	2x4 DF Stud/Std G	WEBS	1 Row at midpt E-Q, G-Q, J-N
WEDGE			
Left: 2x4 DF Stud/Std -G			

REACTIONS.	(size) N=Mechanical, B=0-5-8
	Max Horz B=107(LC 13)
	Max Uplift N=-101(LC 14), B=-125(LC 14)
	Max Grav N=2076(LC 28), B=2097(LC 28)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	B-C=-5168/672, C-D=-5001/637, D-E=-4247/602, E-F=-3263/527, F-G=-3262/526, G-H=-4231/612, H-I=-4169/587, I-J=-3974/535, J-K=-291/65, K-N=-272/97
BOT CHORD	B-S=-588/4876, R-S=-512/4403, Q-R=-408/3757, P-Q=-408/3718, O-P=-460/4067, N-O=-421/3507
WEBS	C-S=-290/122, D-S=0/512, F-Q=-174/1746, H-P=-381/66, I-P=-305/94, E-Q=-1059/187, D-R=-645/144, E-R=-18/798, G-Q=-1019/188, G-P=-33/843, I-O=-364/86, J-O=0/602, J-N=-3677/482

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=47ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 3-7-13, Interior(1) 3-7-13 to 18-7-3, Exterior(2R) 18-7-3 to 27-10-13, Interior(1) 27-10-13 to 41-10-3, Exterior(2E) 41-10-3 to 46-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
 - All plates are MT20 plates unless otherwise indicated.
 - Plates checked for a plus or minus 4 degree rotation about its center.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - A plate rating reduction of 20% has been applied for the green lumber members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) N=101.



RENEWAL DATE: 12-31-2021
June 14,2021

Job	Truss	Truss Type	Qty	Ply	SE Madison
213564-A	D06	ROOF SPECIAL	1	1	
Job Reference (optional)					

Trus-Way, Vancouver, WA - 98661, 8.430 s Jun 2 2021 MiTek Industries, Inc. Product 10-12-2014 12:02:01 Page 2
ID:zTADz_v4LJ?zCUljuQ0obZz7OdB-belX2jZ?_?deJ?H-TZK5kJtNBqK4e_JqU?HV?Csz7MV0

City of Portland

Reviewed for code compliance

Date: 07/29/21

- NOTES-**
- 13) One RT7 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) B. This connection is for uplift only and does not consider lateral forces.
- 14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	SE Madison
213564-A	D07	Roof Special	2	1	
Job Reference (optional)					

Truss-Way,	Vancouver, WA - 98661,	8.430 s Jun 2 2021 MiTek Industries, Inc. Product 10-12-20102102-01 Page 1
ID:zTADz_v4LJ?zCUlJuQ0obZz7OdB-3qrVG3ZellVxsf71czs5vONkUFjnmdExFYklz7MV?		
1-0-0	6-0-11	11-9-8
1-0-0	6-0-11	5-8-12
		17-6-4
		5-8-12
		23-3-0
		5-8-12
		28-11-12
		31-6-0
		34-8-8
		34-8-12
		38-10-3
		40-5-4
		46-6-0
		46-6-0

Scale = 1:81.3

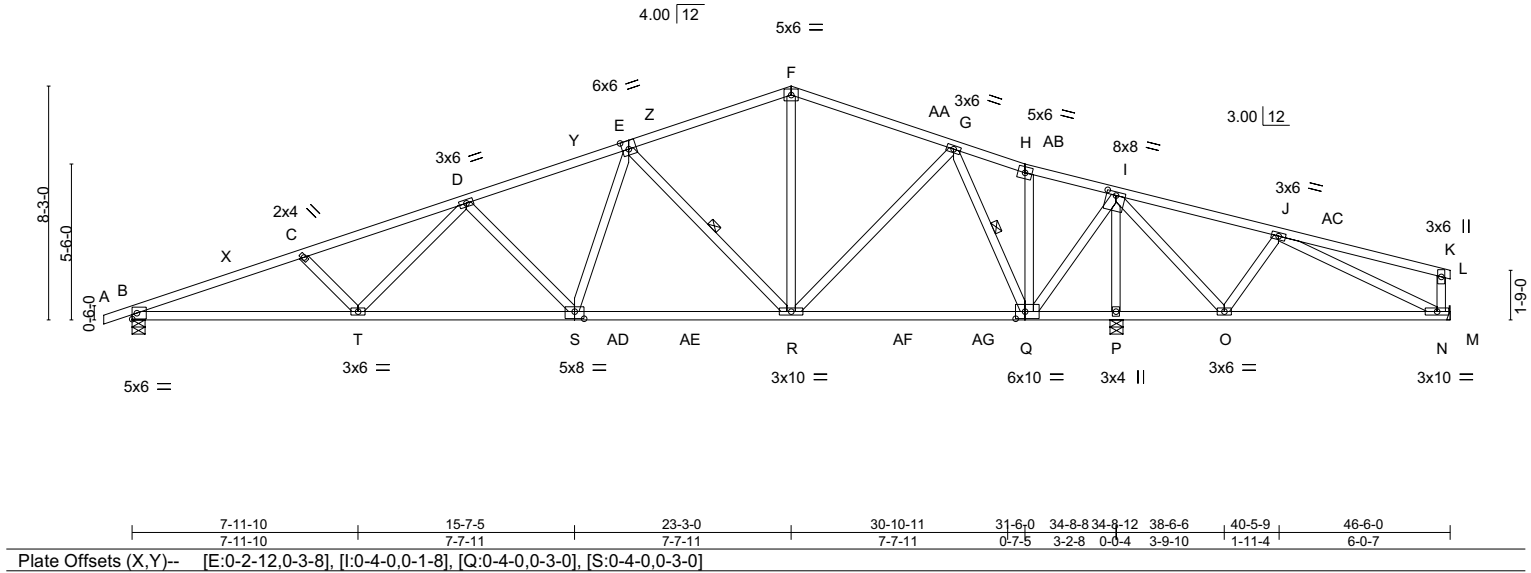


Plate Offsets (X,Y)--		[E:0-2,12,0-3-8], [I:0-4,0,0-1-8], [Q:0-4,0,0-3-0], [S:0-4,0,0-3-0]
LOADING (psf)		
TCLL (roof)	25.0	
Snow (Pf/Pg)	20.8/30.0	
TCDL	7.0	
BCLL	0.0 *	
BCDL	10.0	
SPACING-		2-0-0
Plate Grip DOL	1.15	
Lumber DOL	1.15	
Rep Stress Incr	YES	
Code	IRC2018/TPI2014	
CSI.		
TC	0.58	
BC	0.70	
WB	0.93	
Matrix-MS		
DEFL.		
Vert(LL)	-0.21	S-T >999
Vert(CT)	-0.51	S-T >810
Horz(CT)	0.09	P n/a
Wind(LL)	0.09	S-T >999
L/d		240
L/d		180
L/d		n/a
L/d		360
PLATES		MT20
GRIP		220/195
Weight: 243 lb		FT = 8%

LUMBER-		BRACING-	
TOP CHORD	2x4 DF No.1&Btr G	TOP CHORD	Structural wood sheathing directly applied or 3-5-6 oc purlins, except end verticals.
BOT CHORD	2x4 DF No.1&Btr G	BOT CHORD	Rigid ceiling directly applied or 5-3-8 oc bracing.
WEBS	2x4 DF Stud/Std G	WEBS	1 Row at midpt E-R, G-Q

REACTIONS.		(size) N=Mechanical, B=0-5-8, P=0-5-8
Max Horz		B=107(LC 13)
Max Uplift		N=-226(LC 40), B=-91(LC 14), P=-138(LC 14)
Max Grav		N=227(LC 39), B=1417(LC 26), P=2791(LC 28)

FORCES.		(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	B-C=-3224/420, C-D=-3019/378, D-E=-2132/330, E-F=-1125/252, F-G=-1123/252, G-H=-16/300, H-I=-41/290, I-J=-89/900	
BOT CHORD	B-T=-353/3062, S-T=-256/2467, R-S=-150/1773, Q-R=0/469, P-Q=-1448/250, O-P=-1362/239, N-O=-654/97	
WEBS	C-T=-336/139, D-T=-3/600, F-R=-1/402, I-Q=-218/2092, D-S=-667/147, E-S=-21/818, E-R=-1082/191, G-R=-54/979, G-Q=-1458/256, I-O=-74/857, J-O=-561/173, J-N=-87/837, I-P=-2739/359	

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=47ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 3-7-13, Interior(1) 3-7-13 to 18-7-3, Exterior(2R) 18-7-3 to 27-10-13, Interior(1) 27-10-13 to 41-10-3, Exterior(2E) 41-10-3 to 46-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCCL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
 - Plates checked for a plus or minus 4 degree rotation about its center.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - A plate rating reduction of 20% has been applied for the green lumber members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) N=226.
 - One RT7 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) B and P. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

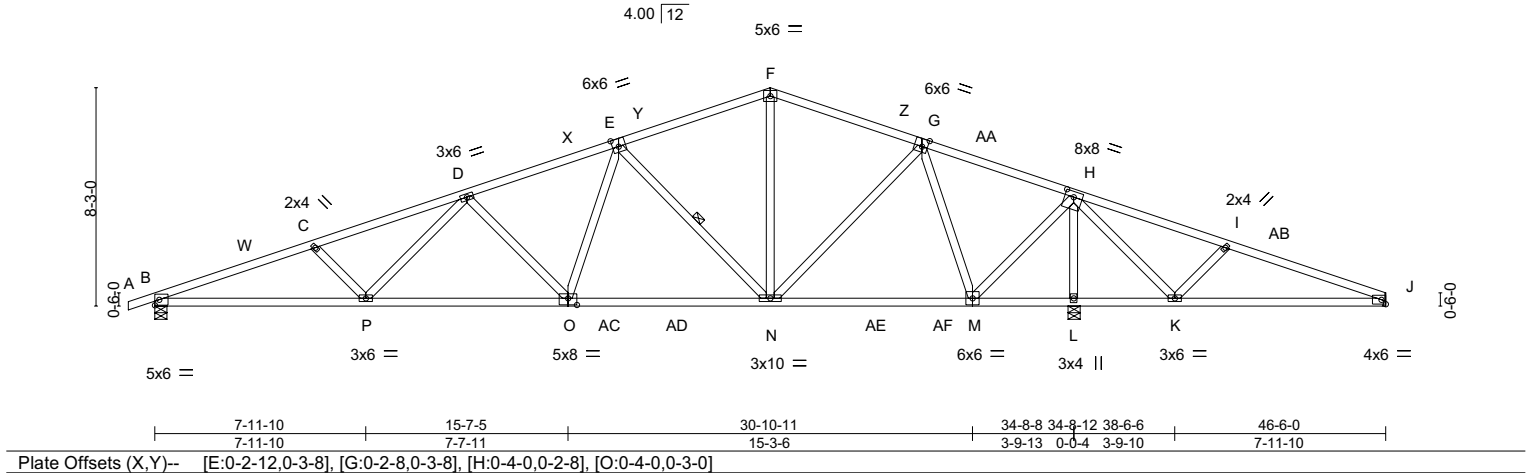


RENEWAL DATE: 12-31-2021
June 14,2021

Job	Truss	Truss Type	Qty	Ply	SE Madison
213564-A	D08	Common	3	1	

Trus-Way, Vancouver, WA - 98661,					8.430 s Jun 2 2021 MiTek Industries, Inc. Product 20-12-05-04-02-01 Page 1				
					ID:zTADz_v4LJzCUIjuQ0obZz7OdB-0DzfhlbuHw?DAT02ESeRwW_mpY8KBhJwhFkfoBz7MUz				
1-0-0	6-0-11	11-9-8	17-6-4	23-3-0	28-11-12	34-8-8	40-5-5	46-6-0	
1-0-0	6-0-11	5-8-12	5-8-12	5-8-12	5-8-12	5-8-12	5-8-12	6-0-11	

Scale = 1:87.0



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof)	25.0	2-0-0	in (loc)	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Plate Grip DOL 1.15	Vert(LL) -0.22 O-P >999		
TCDL	7.0	Lumber DOL 1.15	Vert(CT) -0.53 O-P >788		
BCLL	0.0 *	Rep Stress Incr YES	Horz(CT) 0.10 L n/a		
BCDL	10.0	Code IRC2018/TPI2014	Wind(LL) 0.09 O-P >999	Weight: 225 lb	FT = 8%

LUMBER-	BRACING-
TOP CHORD 2x4 DF No.1&Btr G	TOP CHORD Structural wood sheathing directly applied or 3-4-5 oc purlins.
BOT CHORD 2x4 DF No.1&Btr G	BOT CHORD Rigid ceiling directly applied or 5-10-11 oc bracing.
WEBS 2x4 DF Stud/Std G	WEBS 1 Row at midpt E-N

REACTIONS. (size) J=Mechanical, B=0-5-8, L=0-5-8
Max Horz B=87(LC 13)
Max Uplift J=-118(LC 32), B=-91(LC 14), L=-137(LC 14)
Max Grav J=267(LC 33), B=1458(LC 26), L=2621(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-3340/431, C-D=-3136/389, D-E=-2261/341, E-F=-1251/264, F-G=-1252/264,
G-H=-353/84, H-I=-98/730, I-J=-170/625
BOT CHORD B-P=-363/3175, O-P=-267/2589, N-O=-161/1896, M-N=0/623, L-M=-1212/229,
K-L=-1109/214, J-K=-570/131
WEBS C-P=-333/138, D-P=-3/592, D-O=-665/147, E-O=-20/820, E-N=-1085/191, G-N=-45/849,
F-N=-11/487, G-M=-1279/248, H-M=-218/2031, H-K=-53/756, I-K=-446/157,
H-L=-2566/364

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=47ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 3-7-13, Interior(1) 3-7-13 to 18-7-3, Exterior(2R) 18-7-3 to 27-10-13, Interior(1) 27-10-13 to 41-10-3, Exterior(2E) 41-10-3 to 46-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
 - Plates checked for a plus or minus 4 degree rotation about its center.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - A plate rating reduction of 20% has been applied for the green lumber members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) J=118.
 - One RT7 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) B and L. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

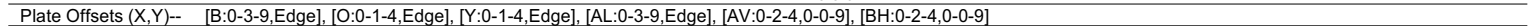


RENEWAL DATE: 12-31-2021
June 14, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
250 Klug Circle
Corona, CA 92880

Scale = 1:87.0



LUMBER-		BRACING-	
TOP CHORD	2x4 DF No.1&Btr G	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	2x4 DF No.1&Btr G	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x4 DF Stud/Std G		

NOTES-

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 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED INTER-NEI ENERGY ADE MP#1493 (rev. 3/19/2020) BEFORE USE.

Design valid for use only with MiTEk® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component**

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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Corona, CA 92880

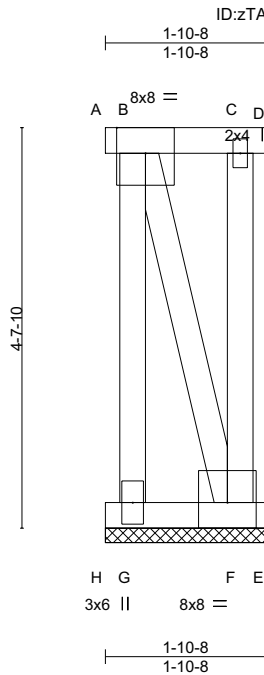
Job	Truss	Truss Type	Qty	Ply	SE Madison
213564-A	E01	Flat Supported Gable	3	1	

City of Portland

Reviewed for code compliance

Date: 07/29/21

Trus-Way, Vancouver, WA - 98661, 8.430 s Jun 2 2021 MiTek Industries, Inc. Product 10-12-2010 10:02:01 Page 1



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.51	in (loc) l/defl L/d	MT20	220/195
Snow (Pf/Pg) 20.8/30.0	Plate Grip DOL 1.15	BC 0.05	Vert(LL) n/a - n/a 999		
TCDL 7.0	Lumber DOL 1.15	WB 0.73	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) -0.07 H n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 22 lb	FT = 8%

LUMBER-	BRACING-
TOP CHORD 2x4 DF No.1&Btr G	TOP CHORD 2-0-0 oc purlins: A-D, except end verticals.
BOT CHORD 2x4 DF No.1&Btr G	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 DF Stud/Std G	

REACTIONS. All bearings 1-10-8.
 (lb) - Max Horz A=-120(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) H, E except G=-836(LC 32), A=-785(LC 32), D=-133(LC 31), F=-1488(LC 31)
 Max Grav All reactions 250 lb or less at joint(s) D except G=866(LC 35), A=783(LC 35), F=1518(LC 36)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-G=-843/850, B-C=-437/432, C-F=-369/376
 BOT CHORD F-G=-437/432
 WEBS B-F=-1917/1917

- NOTES-**
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
 - Provide adequate drainage to prevent water ponding.
 - Plates checked for a plus or minus 4 degree rotation about its center.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 1-4-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - A plate rating reduction of 20% has been applied for the green lumber members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) H except (jt=lb) A=785, D=133, F=1488.
 - Two RT7 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) G. This connection is for uplift only and does not consider lateral forces.
 - One RT7 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) E. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss has been designed for a total drag load of 250 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 250.0 plf.



RENEWAL DATE: 12-31-2021

June 14, 2021

Job	Truss	Truss Type	Qty	Ply	SE Madison
213564-A	E01	Flat Supported Gable	3	1	
Job Reference (optional)					

Trus-Way, Vancouver, WA - 98661, 8.430 s Jun 2 2021 MiTek Industries, Inc. Product 10-1225401-02-01 Page 2
ID:zTADz_v4LJ?zCUlJuQ0obZz7OdB-lZuJ98gHd3tDWX2D9QG4j_nyCMiVKv7ylrwWXHz7MUs

City of Portland

Reviewed for code compliance

Date: 07/29/21

- NOTES-**
- 17) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 18) Double installations of RT7 require the two hurricane ties to be installed on opposite sides of top plate to avoid nail interference in single ply truss.

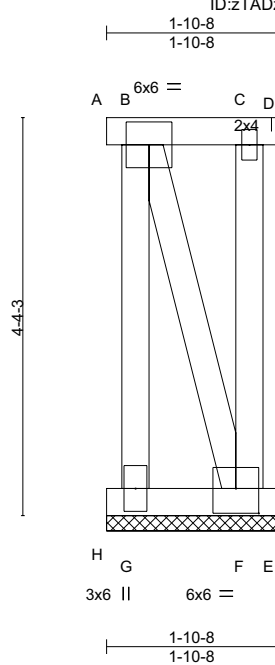
Job	Truss	Truss Type	Qty	Ply	SE Madison
213564-A	E02	Flat Supported Gable	2	1	
Trus-Way, Vancouver, WA - 98661,					Job Reference (optional)

City of Portland

Reviewed for code compliance

Date: 07/29/21

8.430 s Jun 2 2021 MiTek Industries, Inc. Product 10-12-2014 12:02:01 Page 1
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Scale = 1:25.2



RENEWAL DATE: 12-31-2021

Plate Offsets (X,Y)-- [F:0-3-0,0-3-4]

LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.47	Vert(LL)	n/a	-	n/a	MT20	220/195
Snow (Pf/Pg) 20.8/30.0	Plate Grip DOL 1.15	BC 0.05	Vert(CT)	n/a	-	n/a		
TCDL 7.0	Lumber DOL 1.15	WB 0.68	Horz(CT)	-0.06	H	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P					Weight: 21 lb	FT = 8%
BCDL 10.0	Code IRC2018/TPI2014							

LUMBER-

TOP CHORD 2x4 DF No.1&Btr G
 BOT CHORD 2x4 DF No.1&Btr G
 WEBS 2x4 DF Stud/Std G

BRACING-

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

REACTIONS.

All bearings 1-10-8.
 (lb) - Max Horz A=-112(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) H, E except G=-800(LC 32), A=-707(LC 32), D=-129(LC 31), F=-1377(LC 31)
 Max Grav All reactions 250 lb or less at joint(s) D except G=829(LC 35), A=705(LC 35), F=1407(LC 36)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-G=-807/814, B-C=-434/429, C-F=-345/352
 BOT CHORD F-G=-434/429
 WEBS B-F=-1786/1786

NOTES-

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- 4) Provide adequate drainage to prevent water ponding.
- 5) Plates checked for a plus or minus 4 degree rotation about its center.
- 6) Gable requires continuous bottom chord bearing.
- 7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 8) Gable studs spaced at 1-4-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 11) A plate rating reduction of 20% has been applied for the green lumber members.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) H except (jt=lb) A=707, D=129, F=1377.
- 13) Two RT7 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) G. This connection is for uplift only and does not consider lateral forces.
- 14) One RT7 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) E. This connection is for uplift only and does not consider lateral forces.
- 15) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

June 14,2021

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



250 Klug Circle
 Corona, CA 92880

Job	Truss	Truss Type	Qty	Ply	SE Madison
213564-A	E02	Flat Supported Gable	2	1	
Job Reference (optional)					

Trus-Way, Vancouver, WA - 98661, 8.430 s Jun 2 2021 MiTek Industries, Inc. Product 10-12-254102-01 Page 2
ID:zTADz_v4LJ?zCUljuQ0obZz7OdB-nlShMUhvON?48Hjai7nJGCK8bm2k3N95XVg44jz7MUr

City of Portland

Reviewed for code compliance

Date: 07/29/21

NOTES-

- 16) This truss has been designed for a total drag load of 250 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 250.0 plf.
- 17) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 18) Double installations of RT7 require the two hurricane ties to be installed on opposite sides of top plate to avoid nail interference in single ply truss.

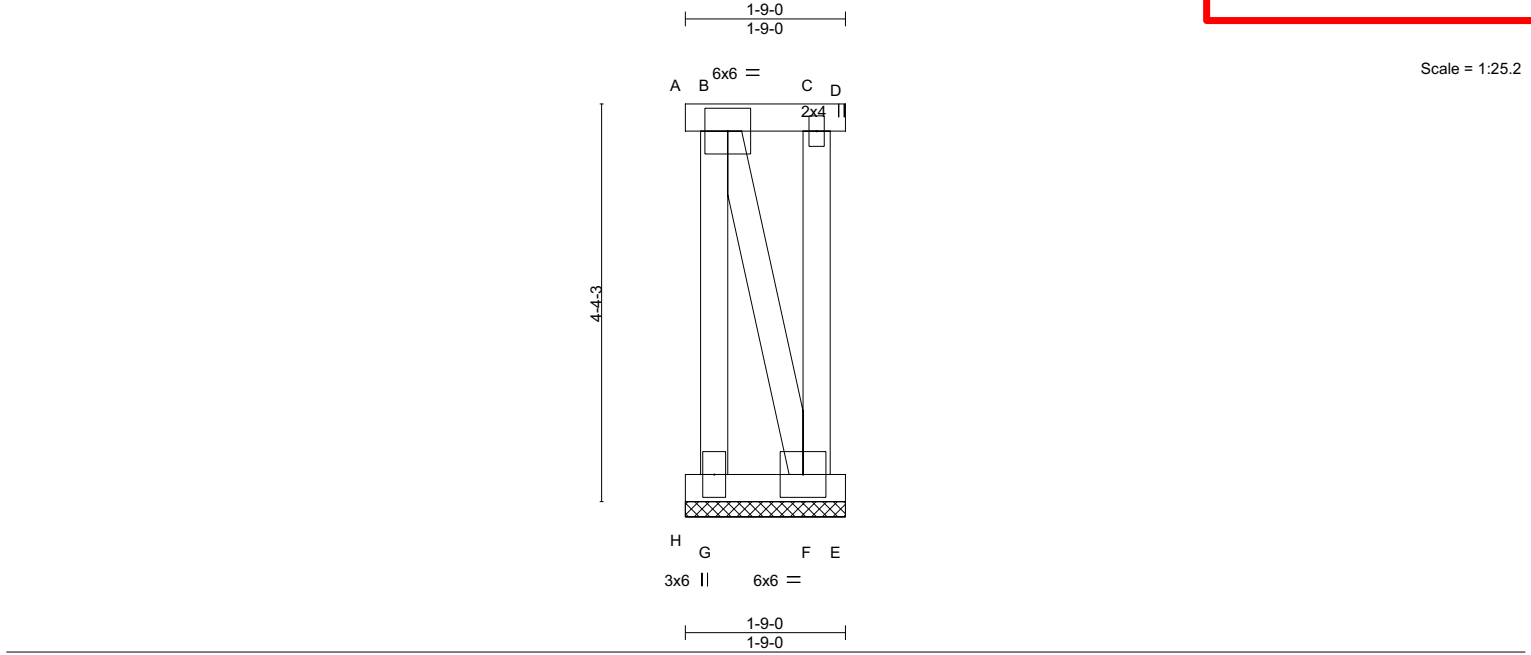
Job	Truss	Truss Type	Qty	Ply	SE Madison
213564-A	E03	Flat Supported Gable	1	1	

City of Portland

Reviewed for code compliance

Date: 07/29/21

Trus-Way, Vancouver, WA - 98661, 8.430 s Jun 2 2021 MiTek Industries, Inc. Product 20-12-2013 2021 Page 1



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.35	in (loc) l/defl L/d	MT20	220/195
Snow (Pf/Pg) 20.8/30.0	Plate Grip DOL 1.15	BC 0.03	Vert(LL) n/a - n/a 999		
TCDL 7.0	Lumber DOL 1.15	WB 0.44	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) -0.04 H n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 20 lb	FT = 8%

LUMBER-	BRACING-
TOP CHORD 2x4 DF No.1&Btr G	TOP CHORD 2-0-0 oc purlins: A-D, except end verticals.
BOT CHORD 2x4 DF No.1&Btr G	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 DF Stud/Std G	

REACTIONS.
All bearings 1-9-0.
(lb) - Max Horz A=-112(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) D, H, E except G=-493(LC 32), A=-472(LC 32), F=-890(LC 31)
Max Grav All reactions 250 lb or less at joint(s) D except G=519(LC 35), A=470(LC 35), F=916(LC 36)

FORCES.
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-G=-499/505
WEBS B-F=-1148/1148

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) Plates checked for a plus or minus 4 degree rotation about its center.
 - 6) Gable requires continuous bottom chord bearing.
 - 7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 8) Gable studs spaced at 1-4-0 oc.
 - 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 11) A plate rating reduction of 20% has been applied for the green lumber members.
 - 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D except (jt=lb) A=472.
 - 13) One RT7 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) G, H, and E. This connection is for uplift only and does not consider lateral forces.
 - 14) Two RT7 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) F. This connection is for uplift only and does not consider lateral forces.
 - 15) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 16) This truss has been designed for a total drag load of 250 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-9-0 for 142.9 plf.
 - 17) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



RENEWAL DATE: 12-31-2021

June 14,2021

Job	Truss	Truss Type	Qty	Ply	SE Madison
213564-A	E03	Flat Supported Gable	1	1	
Job Reference (optional)					

Trus-Way, Vancouver, WA - 98661, 8.430 s Jun 2 2021 MiTek Industries, Inc. Product 10-1225414-02-01 Page 2
ID:zTADz_v4LJ?zCUljuQ0obZz7OdB-j8aRn9jw_FoN?nqYqnLdPWyakXXLTO_p9B8cz7MUp

NOTES-
18) Double installations of RT7 require the two hurricane ties to be installed on opposite sides of top plate to avoid nail interference in single ply truss.

City of Portland

Reviewed for code compliance

Date: 07/29/21

APRIL 12, 2019

Standard Gable End Detail

MII-GE110-001

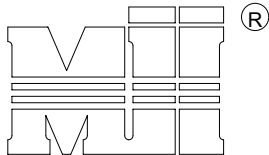
City of Portland

Reviewed for code compliance

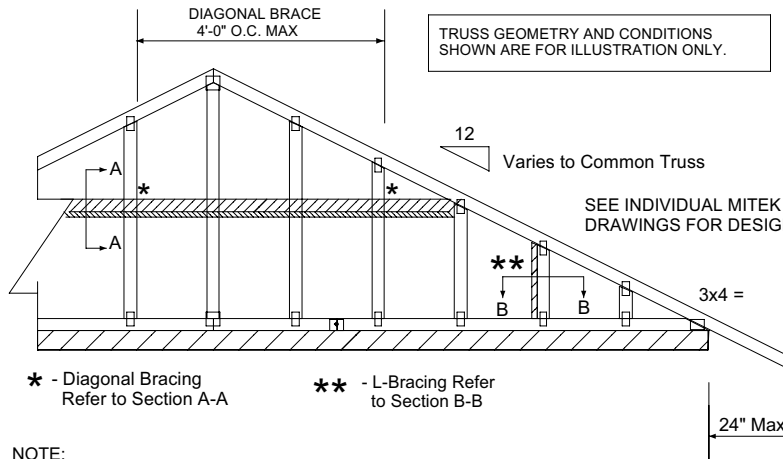
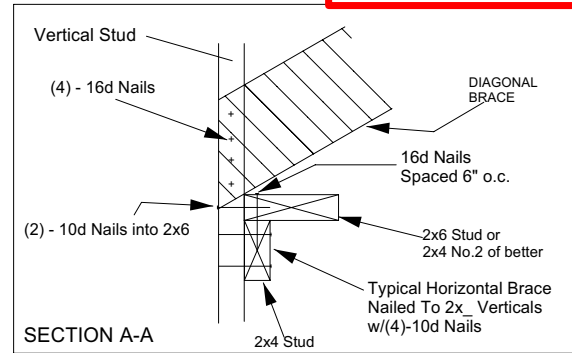
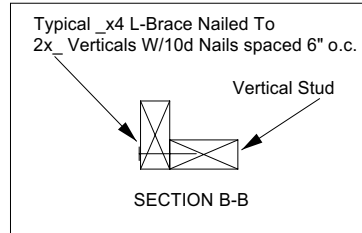
Date: 06/23/20
Project #: 20-192040-DFS-01-RS

MiTek USA, Inc.

Page 1 of 2



MiTek USA, Inc.

ENGINEERED BY
TRENCO
 A MiTek Affiliate


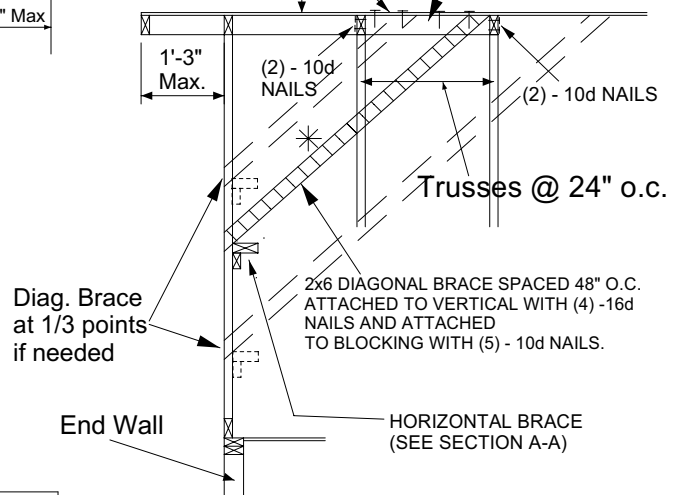
NOTE:

1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 1x4 SRB OR 2x4 STUD OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.
5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.
6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
9. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
10. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.

(4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD DF/SPF BLOCK

Roof Sheathing



Minimum Stud Size Species and Grade	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
		Maximum Stud Length				
2x4 DF/SPF Std/Stud	12" O.C.	4-6-3	5-0-7	7-1-7	9-0-5	13-6-8
2x4 DF/SPF Std/Stud	16" O.C.	4-1-3	4-4-5	6-2-0	8-2-7	12-3-10
2x4 DF/SPF Std/Stud	24" O.C.	3-5-8	3-6-11	5-0-7	6-10-15	10-4-7

- * Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of web with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

MAX MEAN ROOF HEIGHT = 30 FEET
 CATEGORY II BUILDING
 EXPOSURE B or C
 ASCE 7-98, ASCE 7-02, ASCE 7-05 110 MPH
 ASCE 7-10, ASCE 7-16 140 MPH
 DURATION OF LOAD INCREASE : 1.60

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING.
 CONNECTION OF BRACING IS BASED ON MWFRS.



RENEWAL DATE: 12-31-2021
 June 14, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



250 Klug Circle
 Corona, CA 92880

APRIL 12, 2019

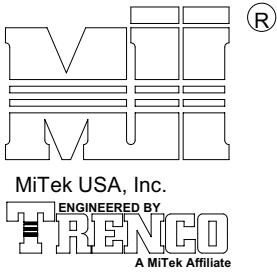
Standard Gable End Detail

City of Portland

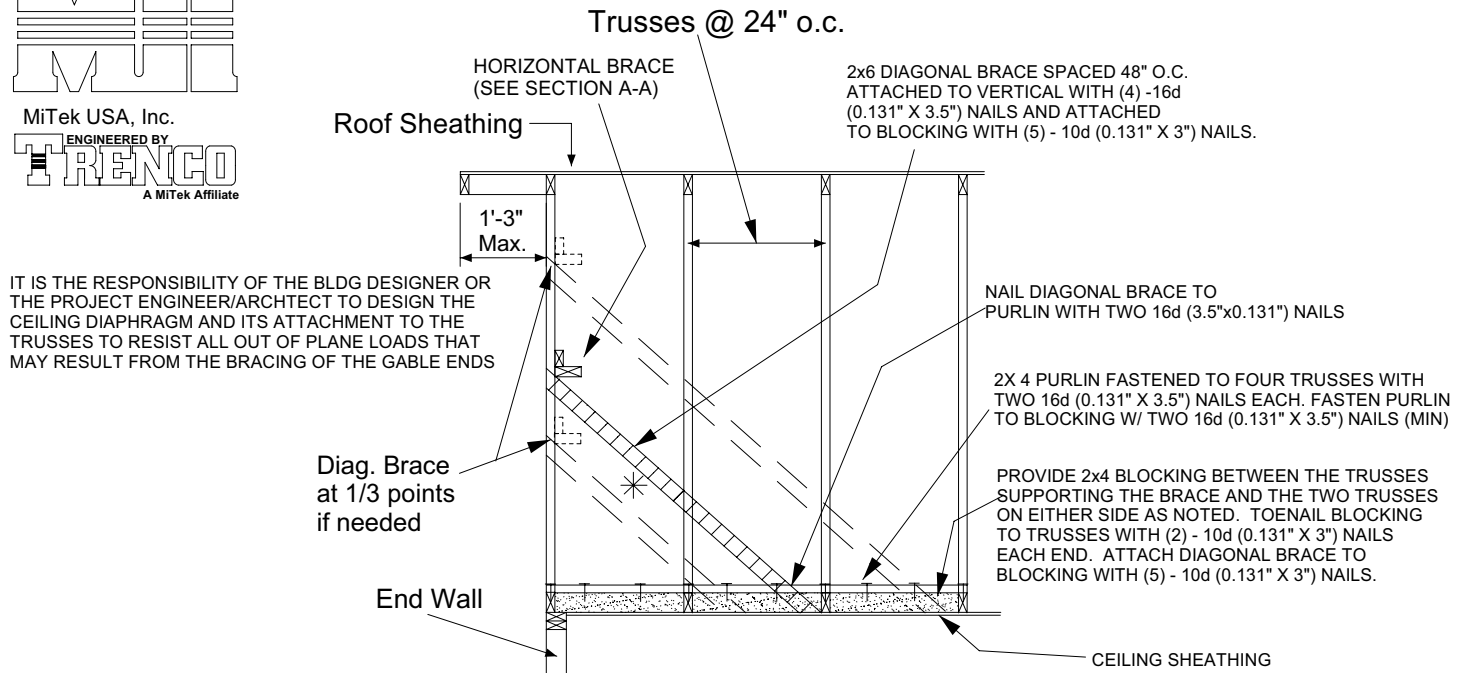
Reviewed for code compliance

MII-SHEET 2

Date: 07/28/21

Project #: 20-192040-DFS-01-RS
MiTek USA, Inc. Page 2 of 2

ALTERNATE DIAGONAL BRACING TO THE BOTTOM CHORD



IT IS THE RESPONSIBILITY OF THE BLDG DESIGNER OR THE PROJECT ENGINEER/ARCHTCT TO DESIGN THE CEILING DIAPHRAGM AND ITS ATTACHMENT TO THE TRUSSES TO RESIST ALL OUT OF PLANE LOADS THAT MAY RESULT FROM THE BRACING OF THE GABLE ENDS

BRACING REQUIREMENTS FOR STRUCTURAL GABLE TRUSSES

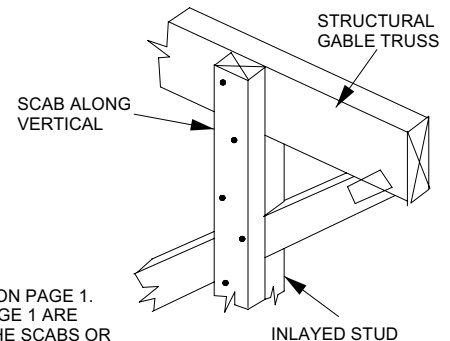
STRUCTURAL GABLE TRUSSES MAY BE BRACED AS NOTED:

METHOD 1: ATTACH A MATCHING GABLE TRUSS TO THE INSIDE FACE OF THE STRUCTURAL GABLE AND FASTEN PER THE FOLLOWING NAILING SCHEDULE.

METHOD 2: ATTACH 2X SCABS TO THE FACE OF EACH VERTICAL MEMBER ON THE STRUCTURAL GABLE PER THE FOLLOWING NAILING SCHEDULE. SCABS ARE TO BE OF THE SAME SIZE, GRADE AND SPECIES AS THE TRUSS VERTICALS

NAILING SCHEDULE:

- FOR WIND SPEEDS 120 MPH (ASCE 7-98, 02, 05), 150 MPH (ASCE 7-10, 16) OR LESS, NAIL ALL MEMBERS WITH ONE ROW OF 10d (0.131" X 3") NAILS SPACED 6" O.C.
- FOR WIND SPEEDS 120-150 MPH (ASCE 7-98, 02, 05), 150-190 MPH (ASCE 7-10, 16) NAIL ALL MEMBERS WITH TWO ROWS OF 10d (0.131" X 3") NAILS SPACED 6" O.C. (2X 4 STUDS MINIMUM)



MAXIMUM STUD LENGTHS ARE LISTED ON PAGE 1. ALL BRACING METHODS SHOWN ON PAGE 1 ARE VALID AND ARE TO BE FASTENED TO THE SCABS OR VERTICAL STUDS OF THE STANDARD GABLE TRUSS ON THE INTERIOR SIDE OF THE STRUCTURE.

STRUCTURAL GABLE TRUSS

AN ADEQUATE DIAPHRAGM OR OTHER METHOD OF BRACING MUST BE PRESENT TO PROVIDE FULL LATERAL SUPPORT OF THE BOTTOM CHORD TO RESIST ALL OUT OF PLANE LOADS. THE BRACING SHOWN IN THIS DETAIL IS FOR THE VERTICAL/STUDS ONLY.

NOTE: THIS DETAIL IS TO BE USED ONLY FOR STRUCTURAL GABLES WITH INLAVED STUDS. TRUSSES WITHOUT INLAVED STUDS ARE NOT ADDRESSED HERE.

STANDARD GABLE TRUSS



RENEWAL DATE: 12-31-2021
June 14, 2021

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



250 Klug Circle
Corona, CA 92880

City of Portland
Reviewed for code compliance

Numbering System

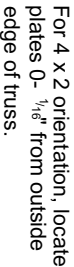


General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g., diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

Center plate on joint unless x, y offsets are indicated.
Dimensions are in ft-in-sixteenths.
Apply plates to both sides of truss and fully embed teeth.



This symbol indicates the required direction of slots in connector plates.

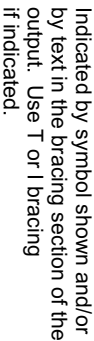
* Plate location details available in MITek 20/20 software or upon request.

PLATE SIZE

4 X 4

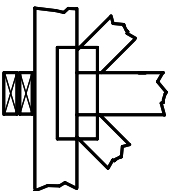
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



BEARING

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



Industry Standards:

ANSI/TPI-1: National Design Specification for Metal Plate Connected Wood Truss Construction, Design Standard for Bracing.
DSB-89: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.
BCSI:

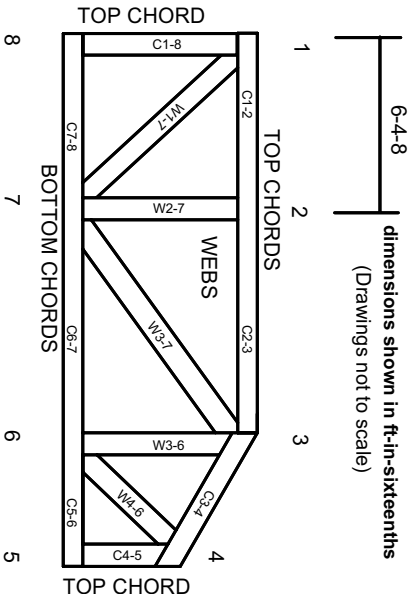
PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.



Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

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

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MITek Engineering Reference Sheet: MI-7473 rev. 5/19/2020