



City of Portland, Oregon - Bureau of Development Services

1900 SW Fourth Avenue • Portland, Oregon 97201 | 503-823-7300 | www.portlandoregon.gov/bds



Deferred Submittal Requirements and Application

Minimum Submittal Requirements (check all boxes and sign below):

For a full list of deferred submittal guidelines, please visit: www.portlandoregon.gov/bds/article/754963

- ☒ A copy of this application
- ☒ Plans stamped and signed by a Design Engineer or Architect registered in Oregon. One PDF copy of plans for electronic submittals or three copies for paper submittals.
- ☒ Calculations and product information. One PDF copy for electronic submittals or two copies for paper submittals.
- ☐ Prior to submitting the deferred submittal, the Engineer of Record and/or Architect of Record responsible for the building shall review the deferred submittal plans and supporting materials and add a notation indicating that the deferred submittal documents have been reviewed and found to be in general conformance with the design of the building. The notation shall be made on the deferred submittal drawings. Review stamps on letters of transmission are not acceptable.
Exception: the notation is not required on deferred submittals for fire sprinklers or roof trusses in residential construction when an Engineer or Architect of Record is not involved with the design of the building.
- ☒ Plan views and elevations identifying the location(s) as approved by the Engineer and/or Architect of Record must be submitted as appropriate but are required when the deferred submittal items include exterior elements.

I certify this deferred submittal application meets the minimum submittal requirements as outlined above.

Applicant Signature: R Adams **Date:** 1/13/2021

Applicant Submittal Information:

Applicant name: Richard Adams RSN 3899180
Address: 2000 SW 1st. Ave Suite 420
City: Portland State: OR Zip Code: 97201
Phone: 503-708-5244 Email: richard@fasterpermits.com
Value of deferred submittal: \$ \$2000 Issued main building permit #: 19-144055-RS
Job Site Address: 1240 SW 60th Ave
Description/Scope of work: Deferred Roof Trusses
Contractor Name: Stone Creek Building & Dev. Inc CCB: 167738

Engineer/Architect of Record for the building information (Not required for roof trusses in residential construction when an Engineer or Architect of Record is not involved with the design of the building)

Name: _____ Phone: _____

Design Engineer for the deferred items

Name: _____ Phone: _____



Project #: 19-144055-DFS-01-RS

12-00-00

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

PITCH: 3.75/12
CANTILEVERS: SEE PLAN
LOADING: 25-7-10
WIND SPEED: 140
BUILDING EXP: B





MiTek USA, Inc.

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

Re: 191352

19-144055 DFS 01 RS

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: K5969847 thru K5969856

My license renewal date for the state of Oregon is December 31, 2019.



[Signature]
EXPIRES: 12/31/2019

April 12, 2019

Baxter, David

IMPORTANT NOTE: Truss Engineer's responsibility is solely for design of individual trusses based upon design parameters shown on referenced truss drawings. Parameters have not been verified as appropriate for any use. Any location identification specified is for file reference only and has not been used in preparing design. Suitability of truss designs for any particular building is the responsibility of the building designer, not the Truss Engineer, per ANSI/TPI-1, Chapter 2.

City of Portland

Reviewed for code compliance

Date: 06/05/22

Project #: 19-144055-DFS-01-RS

Job	Truss	Truss Type	Qty	Ply		K5969848
191352	A02	Monopitch	33	1	Job Reference (optional)	

Trus-Way, Vancouver, WA - 98661, 8.240 s Dec 6 2018 MiTek Industries, Inc. Fri Apr 12 10:11:34 2019 Page 1
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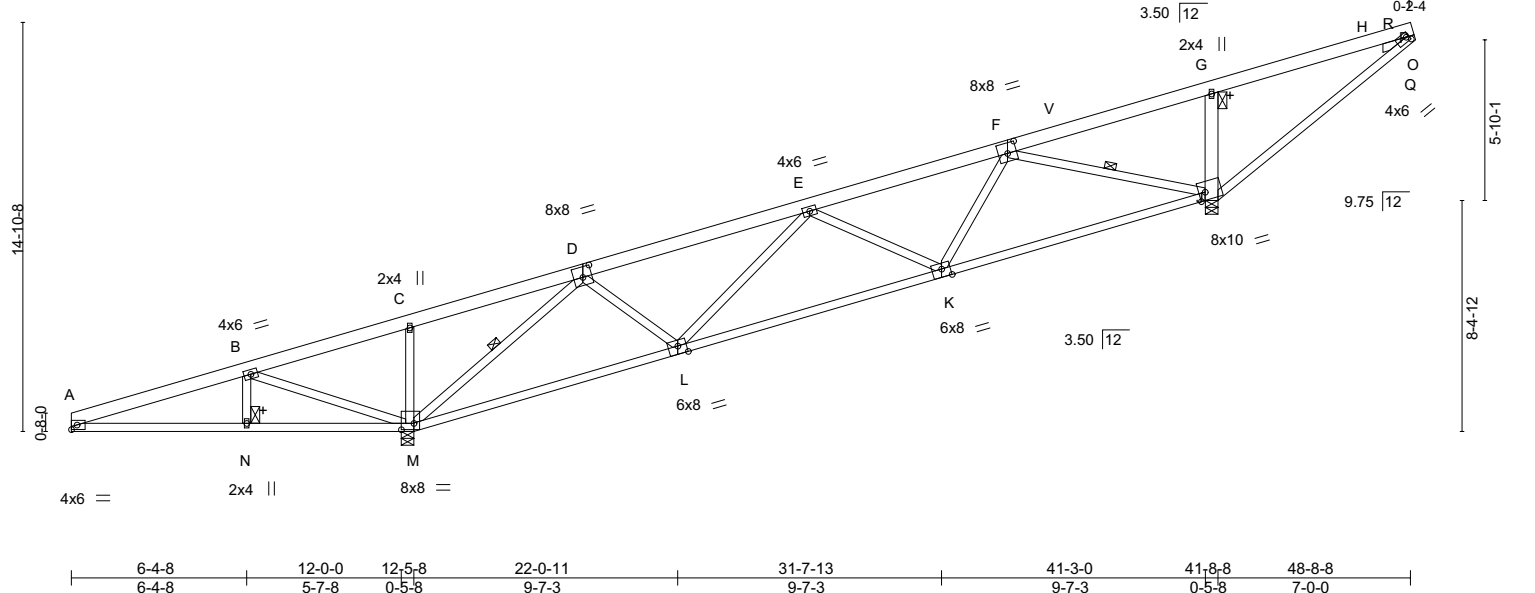


Plate Offsets (X,Y)-- [D:0-4-0,0-4-8], [F:0-4-0,0-4-8], [I:0-1-4,0-2-0], [J:0-2-12,0-3-8], [K:0-3-12,0-3-8], [L:0-3-12,0-3-8], [M:0-5-8,0-2-12]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	-0.18 J-K >999	240	MT20 220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.55 J-K >628	180	
TCDL	7.0	Rep Stress Incr	YES	WB	0.88	Horz(CT)	0.05 J n/a	n/a	
BCLL	0.0 *	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	-0.10 J-K >999	360	Weight: 259 lb FT = 20%
BCDL	10.0								

LUMBER-	BRACING-
TOP CHORD 2x6 DF SS 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 6-0-0 oc bracing.
WEBS 2x4 DF Stud/Std G *Except*	WEBS 1 Row at midpt D-M, F-J
G-J: 2x6 DF SS G, H-I: 2x4 DF No.1&Btr G	

REACTIONS. (lb/size) M=2181/0-5-8, J=1461/0-5-8
Max Horz M=455(LC 14)
Max Uplift M=619(LC 14), J=287(LC 11)
Max Grav M=2425(LC 2), J=2034(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-514/717, B-C=-1325/1694, C-D=-1249/1715, D-E=-951/0, E-F=-1270/51, F-G=-731/626, G-R=-583/539
BOT CHORD A-N=-614/519, M-N=-614/519, L-M=-370/462, K-L=-586/1349, J-K=-357/1046, J-Q=-680/546
WEBS B-N=-217/257, B-M=-1021/938, C-M=-379/255, D-M=-2360/881, D-L=-95/744, E-L=-810/366, F-K=-30/481, F-J=-1360/561, G-J=-902/468

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=49ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(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) TCLL: ASCE 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=20.8 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * 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.
 - 6) A plate rating reduction of 20% has been applied for the green lumber members.
 - 7) Bearing at joint(s) J considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) M=619, J=287.

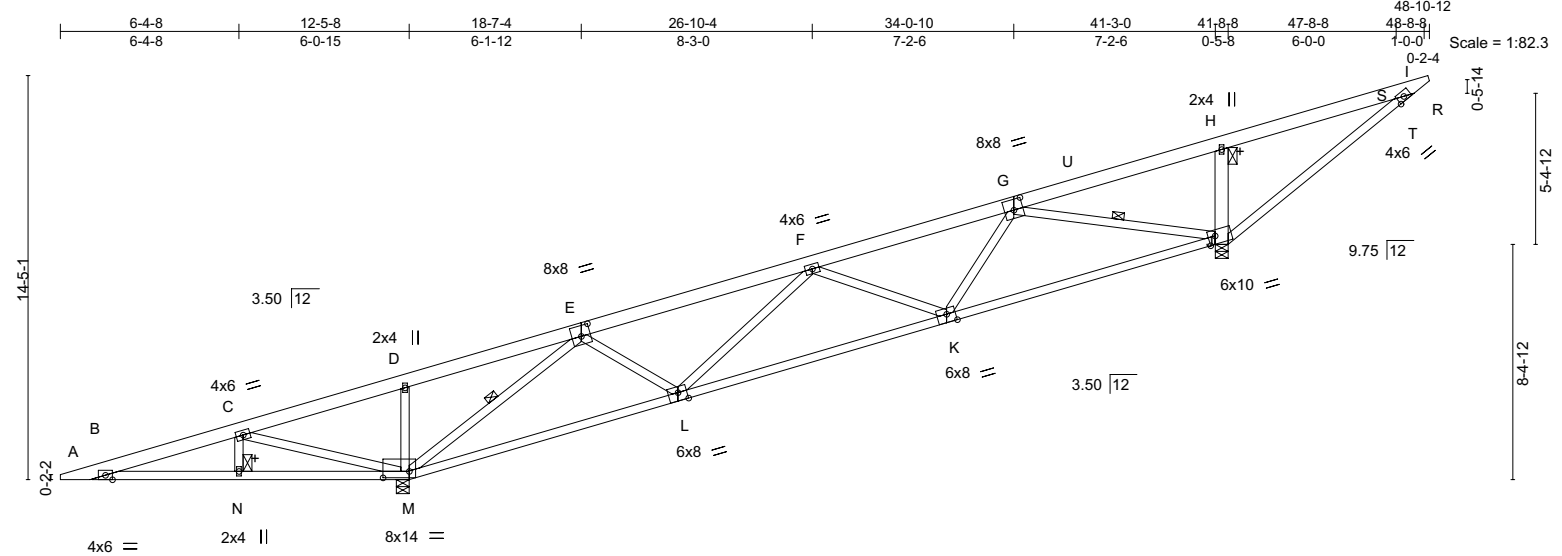


EXPIRES: 12-31-2019
April 12, 2019

Job	Truss	Truss Type	Qty	Ply		K5969849
191352	A03	GABLE	1	1		

Trus-Way, Vancouver, WA - 98661,

8.240 s Dec 6 2018 MiTek Industries, Inc. Fri Apr 12 10:11:35 2019 Page 1
ID:Qu6DIPdpfxMFVFCV8EARbrzgxgZ-OD3B9AE50tOTCkrrC?nKnpTJoXK?jG8xLEb2rkzRUtM



	6-4-8	12-0-0	12-5-8	22-0-11		31-7-13		41-3-0	41-8-8	48-8-8			
	6-4-8	5-7-8	0-5-8	9-7-3		9-7-3		9-7-3	0-5-8	7-0-0			
Plate Offsets (X,Y)-- [E:0-4-0,0-4-8], [G:0-4-0,0-4-8], [J:0-3-0,0-3-8], [K:0-3-12,0-3-8], [L:0-3-12,0-3-8], [M:0-11-4,0-2-12]													
LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.36	in (loc)	I/defl	L/d		MT20	220/195		
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.55	Vert(LL)	-0.20	J-K	>999				
TCDL	7.0	Rep Stress Incr	YES	WB	0.88	Vert(CT)	-0.61	J-K	>569				
BCLL	0.0 *	Code IRC2015/TPI2014		Matrix-MS		Horz(CT)	0.06	J	n/a				
BCDL	10.0					Wind(LL)	0.08	K-L	>999				
										Weight: 250 lb	FT = 20%		

LUMBER-

TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G *Except*
H-J: 2x6 DF SS G

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt E-M, G-J

REACTIONS.

(lb/size) M=2105/0-5-8, J=1497/0-5-8
Max Horz M=469(LC 14)
Max Uplift M=593(LC 14), J=-315(LC 11)
Max Grav M=2341(LC 2), J=2076(LC 19)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-589/760, C-D=-1397/1712, D-E=-1317/1727, E-F=-1151/0, F-G=-1492/38,
G-H=-1017/780, H-S=-855/695
BOT CHORD B-N=-671/604, M-N=-671/604, L-M=-365/596, K-L=-602/1605, J-K=-283/1221,
J-T=-855/775
WEBS C-M=-950/893, D-M=-413/279, E-M=-2505/898, E-L=-73/762, F-L=-831/361, F-K=-193/297,
G-K=-78/535, G-J=-1605/717, H-J=-872/517

NOTES-

- Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=49ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(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
- TCLL: ASCE 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=20.8 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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.
- 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.
- Bearing at joint(s) J considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) M=593, J=315.



EXPIRES: 12-31-2019
April 12, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDE THEM IN THE CONSTRUCTION DOCUMENTS BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown and is not to be used for any other 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 more information regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSB Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alton, IL 61810.

MiTek
250 Klug Circle
Corona, CA 92880

Project #: 19-144055-DFS-01-RS

Job	Truss	Truss Type	Qty	Ply		K5969850
191352	A04	GABLE	1	1		

Trus-Way, Vancouver, WA - 98661,

8.240 s Dec 6 2018 MiTek Industries, Inc. Fri Apr 12 10:11:41 2019 Page 1
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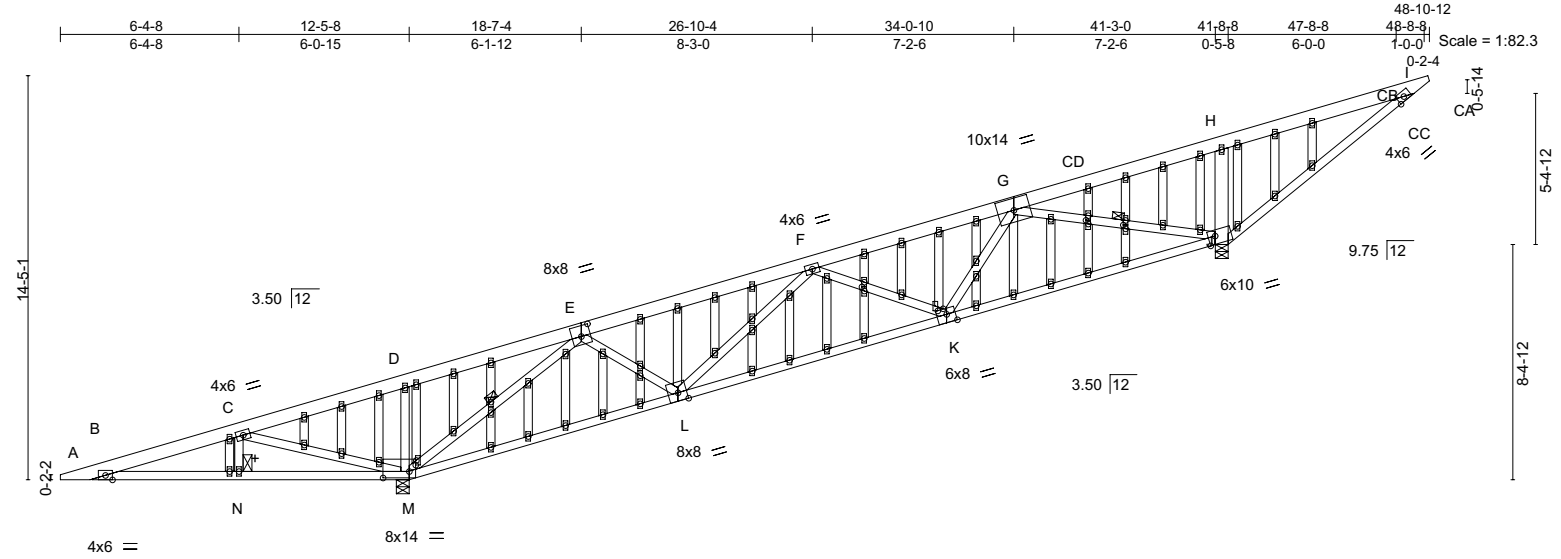


Plate Offsets (X,Y)--	[E:0-4-0,0-4-8], [G:0-0-3,0-0-11], [J:0-3-0,0-3-8], [K:0-0-14,0-2-5], [K:0-3-12,0-3-8], [L:0-0-1,0-0-3], [L:0-3-12,0-3-8], [M:0-2-0,0-0-4], [M:0-11-4,0-2-12], [AA:0-1-10,0-1-0], [AD:0-1-10,0-1-0], [AP:0-1-12,0-1-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.36	Vert(LL) -0.20	J-K	>999	240	MT20	220/195
Snow (Pf/Pg) 20.8/30.0	Plate Grip DOL 1.15	BC 0.55	Vert(CT) -0.61	J-K	>569	180		
TCDL 7.0	Lumber DOL 1.15	WB 0.88	Horz(CT) 0.06	J	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Wind(LL) 0.08	K-L	>999	360		
BCDL 10.0	Code IRC2015/TPI2014						Weight: 348 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 DF SS 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 6-0-0 oc bracing.
WEBS 2x4 DF Stud/Std G *Except*	WEBS 1 Row at midpt E-M, G-J
H-J: 2x6 DF SS G	
OTHERS 2x4 DF Stud/Std G	

REACTIONS. (lb/size)	M=2105/0-5-8, J=1497/0-5-8
Max Horz	M=469(LC 14)
Max Uplift	M=-593(LC 14), J=-315(LC 11)
Max Grav	M=2341(LC 2), J=2076(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	B-C=-589/760, C-D=-1397/1712, D-E=-1317/1727, E-F=-1151/0, F-G=-1492/38, G-H=-1017/780, H-CB=-855/695
BOT CHORD	B-N=-671/604, M-N=-671/604, L-M=-365/596, K-L=-602/1605, J-K=-283/1221, J-CC=-855/775
WEBS	C-M=-950/893, D-M=-413/279, E-M=-2505/898, E-L=-73/762, F-L=-831/361, F-K=-193/297, G-K=-78/535, G-J=-1605/717, H-J=-872/517

- NOTES-**
- Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=111mph; TCCL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=49ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(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
 - 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.
 - TCCL: ASCE 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=20.8 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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 2x4 MT20 unless otherwise indicated.
 - 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.
 - Bearing at joint(s) J considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) M=593, J=315.



EXPIRES: 12-31-2019
April 12, 2019

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MiTek
250 Klug Circle
Corona, CA 92880

Project #: 19-144055-DFS-01-RS

Job	Truss	Truss Type	Qty	Ply		K5969851
191352	B01	GABLE	1	1		

Trus-Way, Vancouver, WA - 98661,

8.240 s Dec 6 2018 MiTek Industries, Inc. Fri Apr 12 10:11:42 2019 Page 1
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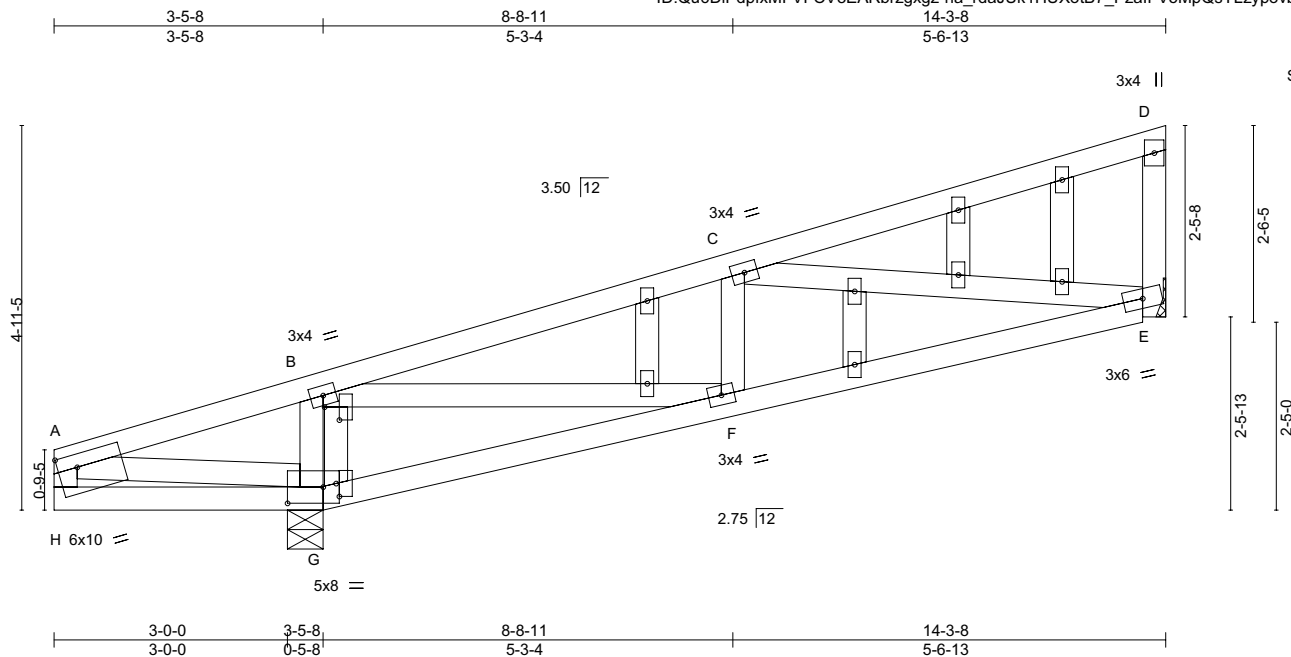


Plate Offsets (X,Y)-- [B:0-2-0,0-2-5], [G:0-5-8,0-2-8], [H:0-1-11,0-0-8], [H:0-3-0,0-2-0], [Q:0-2-0,0-0-8]

LOADING (psf)	SPACING-	CSL	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.42	Vert(LL) -0.02	F	>999	240		MT20	220/195
Snow (Pf/Pg) 20.8/30.0	Plate Grip DOL 1.15	BC 0.18	Vert(CT) -0.07	E-F	>999	180			
TCDL 7.0	Lumber DOL 1.15	WB 0.40	Horz(CT) 0.00	E	n/a	n/a			
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Wind(LL) 0.02	F	>999	360			
BCDL 10.0	Code IRC2015/TPI2014							Weight: 73 lb	FT = 20%

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

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

REACTIONS. (lb/size) G=693/0-5-8, E=365/Mechanical
Max Horz G=143(LC 11)
Max Uplift G=-194(LC 14), E=-66(LC 10)
Max Grav G=770(LC 2), E=452(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-256/228, B-C=-751/193
BOT CHORD F-G=-280/181, E-F=-233/713
WEBS B-G=-594/355, B-F=-385/910, C-E=-634/243, A-G=-185/304

NOTES-

- 1) Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=111mph; 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(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) TCCL: ASCE 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=20.8 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 1-4-0 oc.
- 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.
- 9) A plate rating reduction of 20% has been applied for the green lumber members.
- 10) Refer to girder(s) for truss to truss connections.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) E except (jt=lb) G=194.



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250 Klug Circle
Corona, CA 92880

Project #: 19-144055-DFS-01-RS

Job	Truss	Truss Type	Qty	Ply	
191352	B02	Monopitch	34	1	K5969852

Trus-Way, Vancouver, WA - 98661,

8.240 s Dec 6 2018 MiTek Industries, Inc. Fri Apr 12 10:11:42 2019 Page 1
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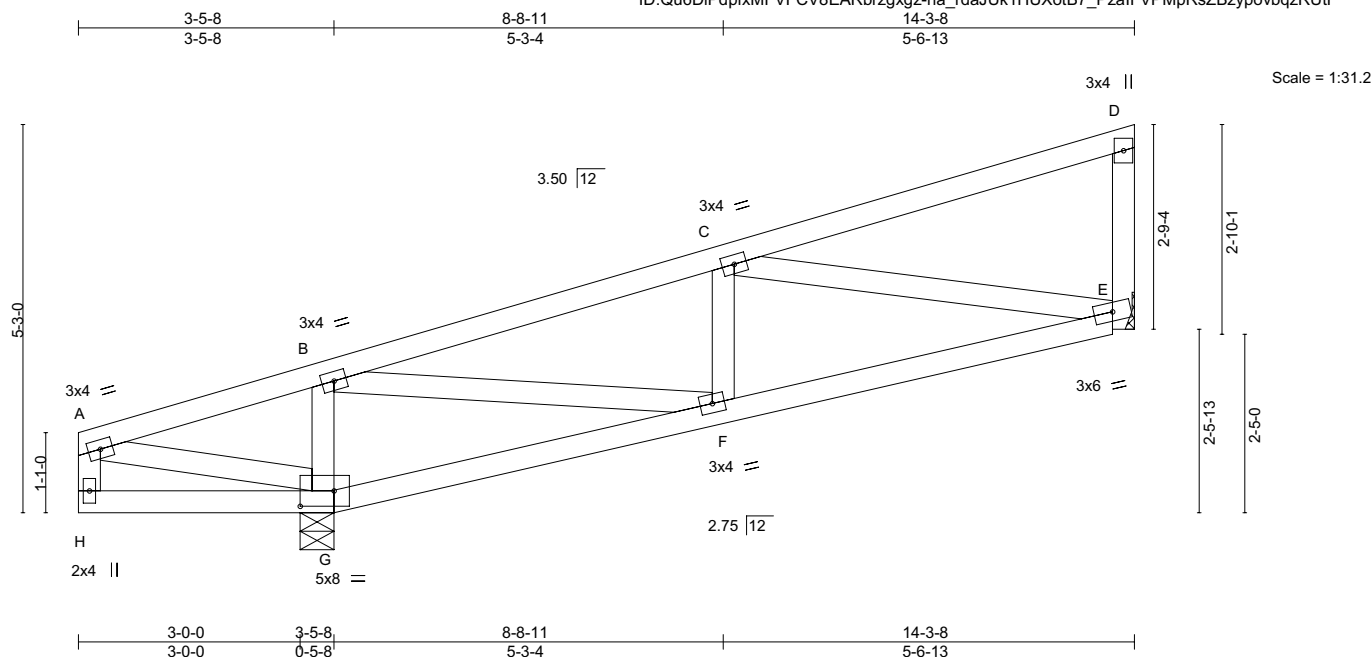


Plate Offsets (X,Y)-- [G:0-5-8,0-2-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	Plate Grip DOL	1.15	TC 0.40	Vert(LL)	-0.02	E-F	>999	240	MT20	220/195
Snow (Pf/Pg) 20.8/30.0	Lumber DOL	1.15	BC 0.18	Vert(CT)	-0.06	E-F	>999	180		
TCDL 7.0	Rep Stress Incr	YES	WB 0.35	Horz(CT)	0.00	E	n/a	n/a		
BCLL 0.0 *	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.01	F	>999	360		
BCDL 10.0									Weight: 67 lb	FT = 20%

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, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) G=693/0-5-8, E=365/Mechanical
Max Horz G=155(LC 11)
Max Uplift G=-193(LC 14), E=-66(LC 10)
Max Grav G=770(LC 2), E=452(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-653/175
BOT CHORD F-G=-261/141, E-F=-202/617
WEBS B-G=-593/346, B-F=-318/787, C-E=-555/225, A-G=-170/267

NOTES-

- 1) Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=111mph; 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(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) TCLL: ASCE 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=20.8 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * 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.
- 6) A plate rating reduction of 20% has been applied for the green lumber members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) E except (jt=lb) G=193.



EXPIRES: 12-31-2019
April 12, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDE ALL REFERENCES TO THIS DESIGN BEFORE USE.

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Corona, CA 92880

Project #: 19-144055-DFS-01-RS

Job	Truss	Truss Type	Qty	Ply		K5969853
191352	B03	GABLE	1	1		

Trus-Way, Vancouver, WA - 98661,

8.240 s Dec 6 2018 MiTek Industries, Inc. Fri Apr 12 10:11:43 2019 Page 1

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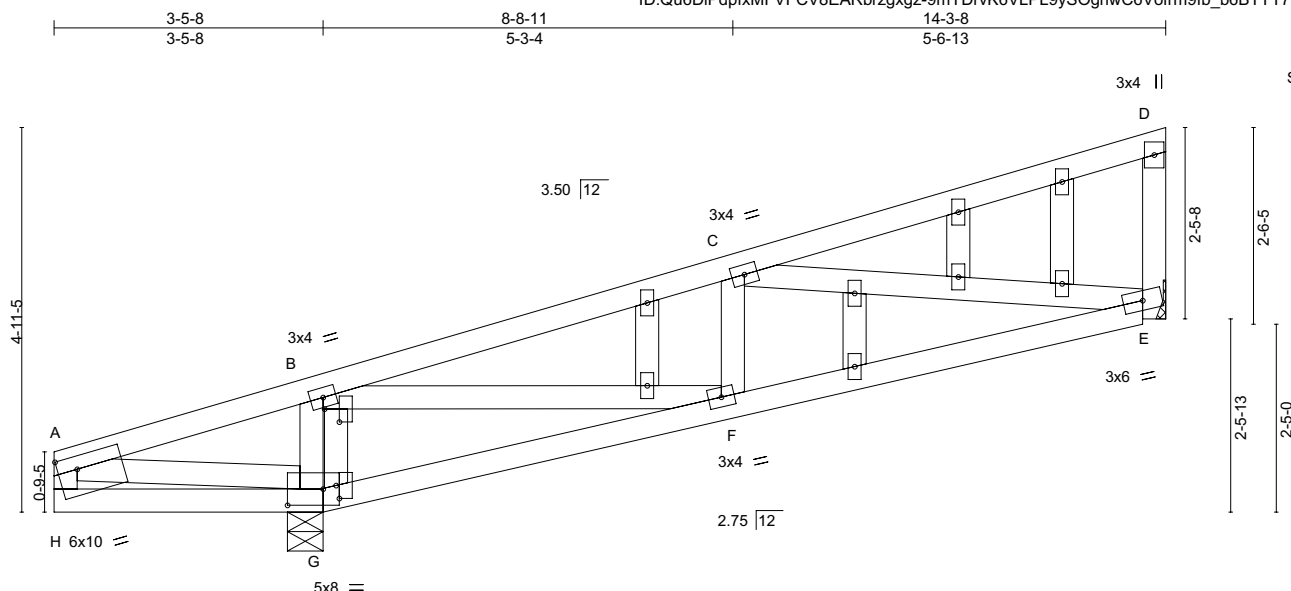


Plate Offsets (X,Y)--	[B:0-2-0,0-2-5], [G:0-5-8,0-2-8], [H:0-1-11,0-0-8], [H:0-3-0,0-2-0], [Q:0-2-0,0-0-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	Plate Grip DOL	1.15	TC 0.42	Vert(LL) -0.02	F	>999	240	MT20	220/195
Snow (Pf/Pg) 20.8/30.0	Lumber DOL	1.15	BC 0.18	Vert(CT) -0.07	E-F	>999	180		
TCDL 7.0	Rep Stress Incr	YES	WB 0.40	Horz(CT) 0.00	E	n/a	n/a		
BCLL 0.0 *	Code IRC2015/TPI2014		Matrix-MS	Wind(LL) 0.02	F	>999	360		
BCDL 10.0								Weight: 73 lb	FT = 20%

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

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

REACTIONS. (lb/size) G=693/0-5-8, E=365/Mechanical
Max Horz G=143(LC 11)
Max Uplift G=-194(LC 14), E=-66(LC 10)
Max Grav G=770(LC 2), E=452(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-256/228, B-C=-751/193
BOT CHORD F-G=-280/181, E-F=-233/713
WEBS B-G=-594/355, B-F=-385/910, C-E=-634/243, A-G=-185/304

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=111mph; 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(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) TCCL: ASCE 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=20.8 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) All plates are 2x4 MT20 unless otherwise indicated.
 - 6) Gable studs spaced at 1-4-0 oc.
 - 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.
 - 9) A plate rating reduction of 20% has been applied for the green lumber members.
 - 10) Refer to girder(s) for truss to truss connections.
 - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) E except (jt=lb) G=194.



EXPIRES: 12-31-2019
April 12, 2019

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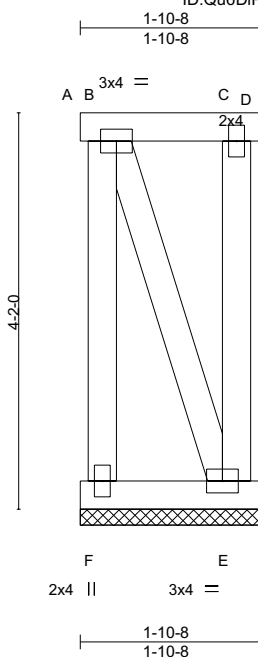
Project #: 19-144055-DFS-01-RS

Job	Truss	Truss Type	Qty	Ply	K5969854
191352	BP2	Blocking Supported	35	1	

Trus-Way, Vancouver, WA - 98661,

8.240 s Dec 6 2018 MiTek Industries, Inc. Fri Apr 12 10:11:44 2019 Page 1

ID:Qu6DIPdpxMFVFCV8EARbrzgxg-dy6b2FLkGeXCn61aEORRfjLrR9XTKW3FP7H0fizRUtD



Scale: 1/2"=1'

LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.36	Vert(LL) n/a	-	n/a	999	MT20	220/195
Snow (Pf/Pg) 20.8/30.0	Plate Grip DOL 1.15	BC 0.01	Vert(CT) n/a	-	n/a	999		
TCDL 7.0	Lumber DOL 1.15	WB 0.07	Horz(CT) -0.01	F	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IRC2015/TPI2014						Weight: 20 lb	FT = 20%

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 10-0-0 oc bracing.	
WEBS 2x4 DF Stud/Std G			

REACTIONS. All bearings 1-10-8.
 (lb) - Max Horz A=-146(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) F, D except A=-110(LC 9), E=-186(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) F, A, D, E

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(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 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=20.8 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0
- 4) Provide adequate drainage to prevent water ponding.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) F, D except (jt=lb) A=110, E=186.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



EXPIRES: 12-31-2019
 April 12, 2019

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 Corona, CA 92880

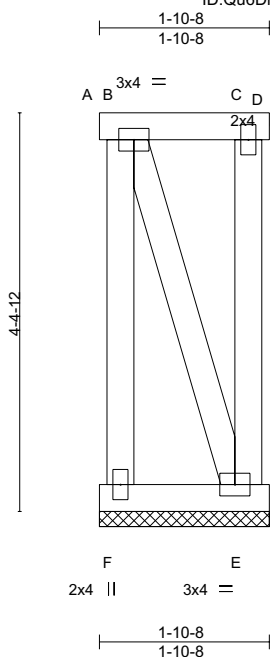
Project #: 19-144055-DFS-01-RS

Job	Truss	Truss Type	Qty	Ply	K5969855
191352	BP1	Blocking Supported	35	1	

Trus-Way, Vancouver, WA - 98661,

8.240 s Dec 6 2018 MiTek Industries, Inc. Fri Apr 12 10:11:44 2019 Page 1

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Scale = 1:25.4

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.41	Vert(LL) n/a	-	n/a	999	MT20	220/195
Snow (Pf/Pg) 20.8/30.0	Plate Grip DOL 1.15	BC 0.01	Vert(CT) n/a	-	n/a	999		
TCDL 7.0	Lumber DOL 1.15	WB 0.08	Horz(CT) -0.01	F	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IRC2015/TPI2014						Weight: 21 lb	FT = 20%

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 10-0-0 oc bracing.	
WEBS 2x4 DF Stud/Std G			

REACTIONS. All bearings 1-10-8.
 (lb) - Max Horz A=-154(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) D except F=-101(LC 9), A=-126(LC 9), E=-206(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) F, A, D, E

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(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 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=20.8 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0
- 4) Provide adequate drainage to prevent water ponding.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D except (jt=lb) F=101, A=126, E=206.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



EXPIRES: 12-31-2019
 April 12, 2019

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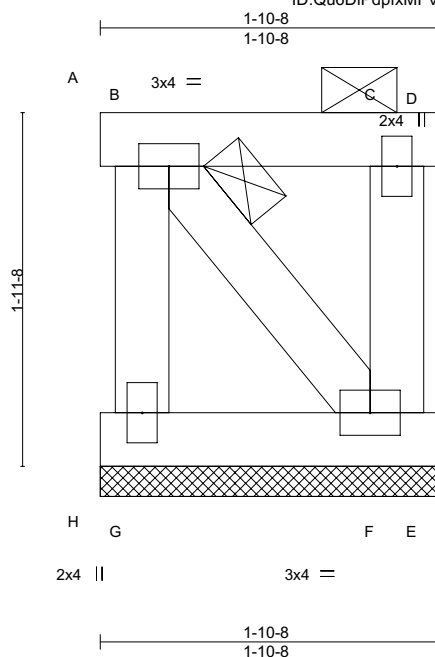
Project #: 19-144055-DFS-01-RS

Job	Truss	Truss Type	Qty	Ply	
191352	BP3	Blocking Supported	35	1	K5969856

Trus-Way, Vancouver, WA - 98661,

8.240 s Dec 6 2018 MiTek Industries, Inc. Fri Apr 12 10:11:45 2019 Page 1

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Scale = 1:12.8

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.06	in (loc) l/defl L/d	MT20	220/195
Snow (Pf/Pg) 20.8/30.0	Plate Grip DOL 1.15	BC 0.01	Vert(LL) 0.00 C n/r 120		
TCDL 7.0	Lumber DOL 1.15	WB 0.02	Vert(CT) 0.00 C n/r 90		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) -0.00 F n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 11 lb	FT = 20%

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 10-0-0 oc bracing.
WEBS 2x4 DF Stud/Std G	

REACTIONS. (lb/size) G=71/1-10-8, F=71/1-10-8
Max Horz G=-62(LC 8)
Max Uplift G=-57(LC 8), F=-57(LC 9)
Max Grav G=88(LC 18), F=88(LC 17)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(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 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=20.8 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0
- 4) Provide adequate drainage to prevent water ponding.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) G, F.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



EXPIRES: 12-31-2019

April 12, 2019

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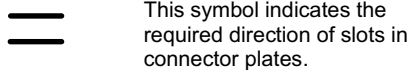
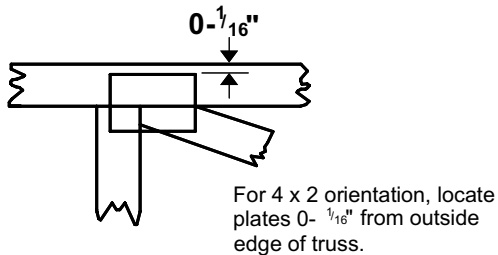
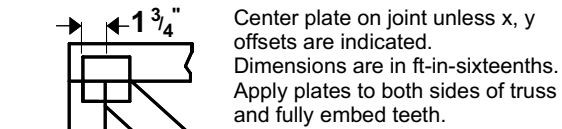
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Corona, CA 92880

Project #: 19-144055-DFS-01-RS

Symbols

PLATE LOCATION AND ORIENTATION



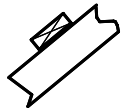
* Plate location details available in MiTek 20/20 software or upon request.

PLATE SIZE

4 x 4

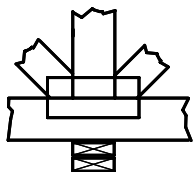
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING

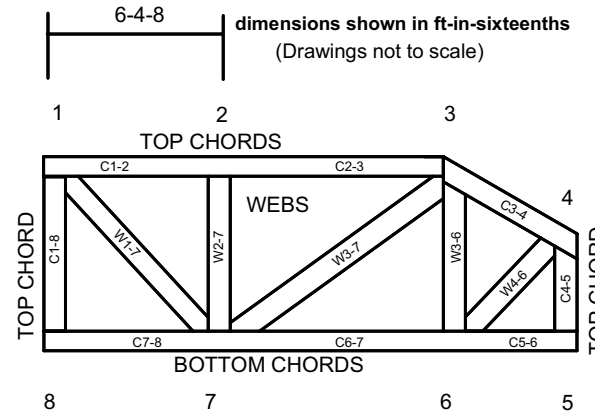


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MII-7473 rev. 10/03/2015

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.

City of Portland
Reviewed for code compliance

Date: 06/05/22

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