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MANS

SR-10-SFD-3E1112-81

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BDS
DOCUMENT SERVICES

PRECISION TRUSS & LUMBER
11550 SE Jennifer St
Clackamas, OR 97015
(503) 656-2983
(503) 656-2647

Client: J H Phan's
Plan : Fargo ADU
Sales : Cliff Puckett Ext 124
Site : NE Portland, OR

Project #18-CP2577
18-CP2577
City of Portland
REVIEWED FOR CODE
COMPLIANCE
MAY 13 2019
Permit Number

Pitch: 10.5 & 6/12 Loading: 25-7-0-10
Overhang 12" & Mat. Date: 5/1/2019

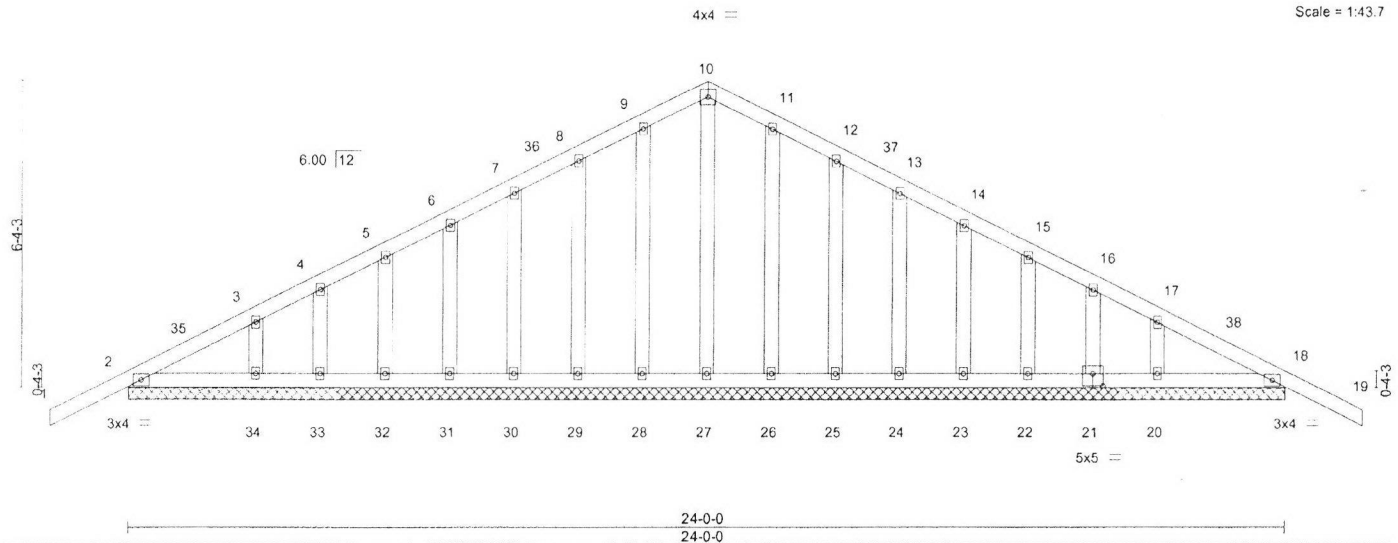
JUS24 6
MUS26 5
46

Job	Truss	Truss Type	Qty	Ply	
18-CP2577	A01	Common Supported Gable	1	1	K6056727

Precision Truss & Lumber, Inc., CLACKAMAS, OR - 97015,

8,300 s Mar 22 2019 MiTek Industries, Inc. Wed May 1 13:49:39 2019 Page 1

ID:bkj?h4MieoQuxwi_TFFnZyHKCv-2B8mWCrf?exn0uG11_zmEuEM4wleFFG?YGuyszKrow



LOADING (psf)		SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/def	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.16	Vert(LL)	-0.01	19	n/r	MT20	185/148
TCDL	7.0	Lumber DOL 1.15	BC 0.05	Vert(CT)	-0.01	19	n/r		
BCLL	0.0	Rep Stress Incr YES	WB 0.07	Horz(CT)	0.00	18	n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-R						
								Weight: 132 lb	FT = 0%

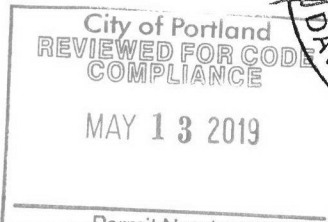
LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2
OTHERS 2x4 HF Std

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. All bearings 24-0-0
(lb) - Max Horz 2=97(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 2, 28, 29, 30, 31, 32, 33, 34, 26, 25, 24, 23, 22, 21, 20, 18
Max Grav All reactions 250 lb or less at joint(s) 2, 27, 28, 29, 30, 31, 32, 33, 34, 26, 25, 24, 23, 22, 21, 20, 18

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 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=4 2psf; BCDL=6.0psf; h=25ft, Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-7-8 to 1-4-8, Exterior(2) 1-4-8 to 12-0-0, Corner(3) 12-0-0 to 15-0-0, Exterior(2) 15-0-0 to 25-7-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x3 MT20 unless otherwise indicated.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 28, 29, 30, 31, 32, 33, 34, 26, 25, 24, 23, 22, 21, 20, 18



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Permit Number

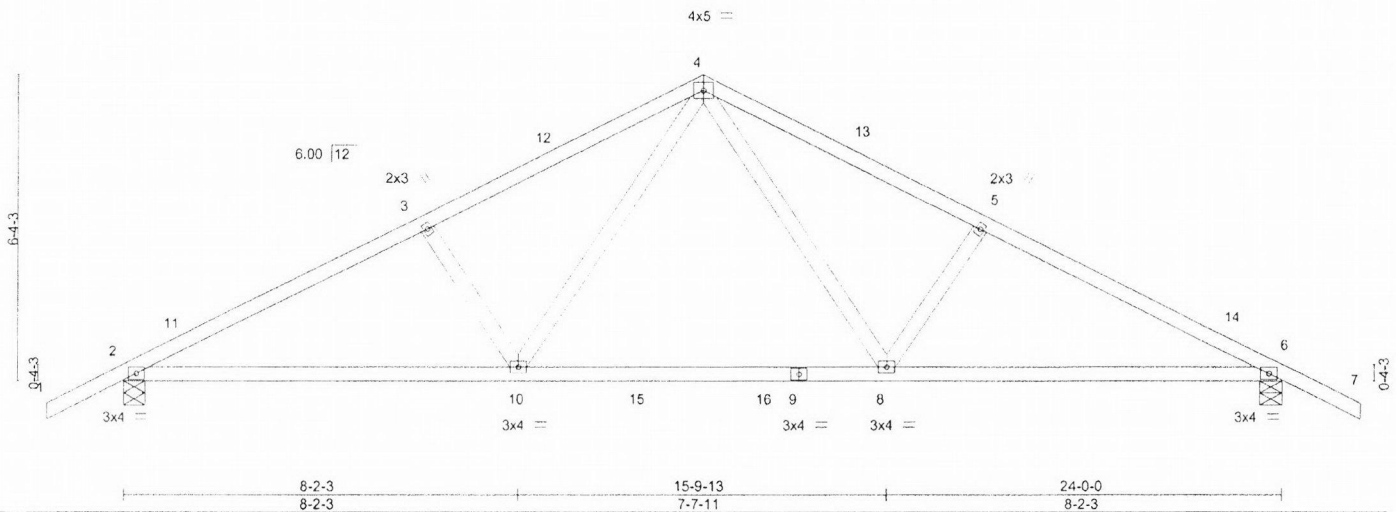
Job	Truss	Truss Type	Qty	Ply	
18-CP2577	A02	Common	6	1	K6056728

Precision Truss & Lumber, Inc., CLACKAMAS, OR - 97015,

8.300 s Mar 22 2019 MiTek Industries, Inc. Wed May 1 13:49:40 2019 Page 1

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 -1-7-8 6-3-4 12-0-0 17-8-12 24-0-0 25-7-8
 1-7-8 6-3-4 5-8-12 5-8-12 6-3-4 1-7-8

Scale = 1:43.7



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc)	L/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.38	Vert(LL) -0.13 8-10	>999	240	MT20	185/148
TCDL 7.0	Lumber DOL 1.15	BC 0.52	Vert(CT) -0.20 2-10	>999	180		
BCLL 0.0	Rep Stress Incr YES	WB 0.28	Horz(CT) 0.04 6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-R				Weight: 98 lb	FT = 0%

LUMBER-
 TOP CHORD 2x4 DF No 2
 BOT CHORD 2x4 DF No 2
 WEBS 2x4 HF Std

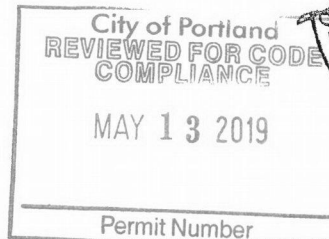
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-5-11 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=1107/0-5-8, 6=1107/0-5-8
 Max Horz 2=97(LC 16)
 Max Uplift 2=-133(LC 12), 6=-133(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1686/161, 3-4=-1479/170, 4-5=-1479/170, 5-6=-1686/162
 BOT CHORD 2-10=-156/1421, 8-10=-27/968, 6-8=-74/1421
 WEBS 4-8=-65/546, 5-8=-349/175, 4-10=-65/546, 3-10=-349/175

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph, TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-7-8 to 1-4-8, Interior(1) 1-4-8 to 12-0-0, Exterior(2) 12-0-0 to 15-0-0, Interior(1) 15-0-0 to 25-7-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown. Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=133, 6=133.



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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-1473 rev 10/03/2015 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 ANSITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314



Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
18-CP2577	B01	Roof Special Supported Gable	1	1	

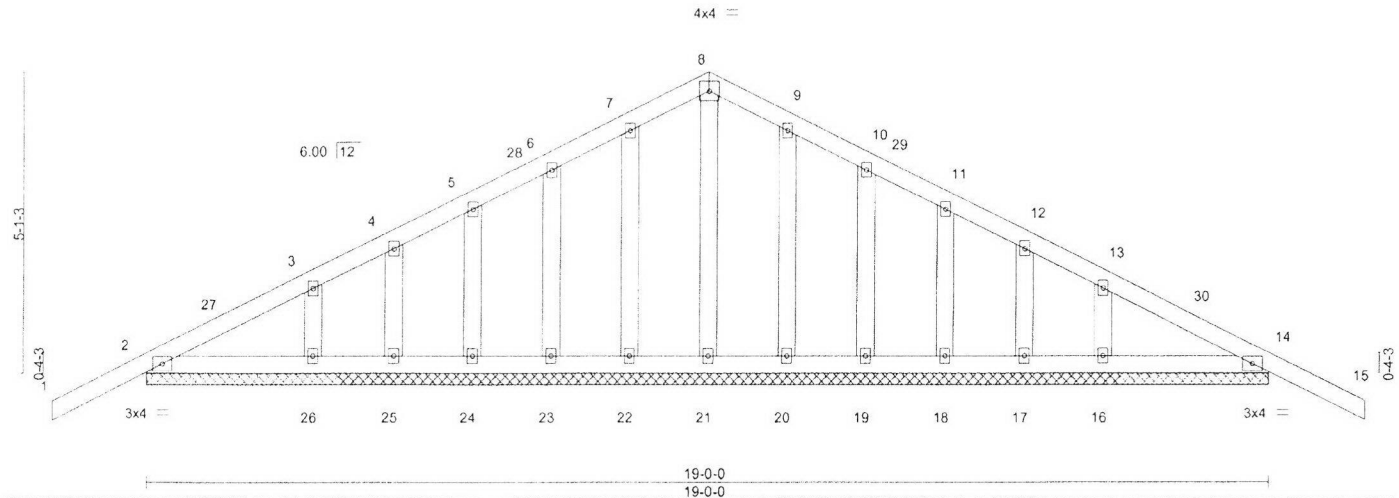
K6056729

Precision Truss & Lumber, Inc., CLACKAMAS, OR - 97015.

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Scale = 1:35.7



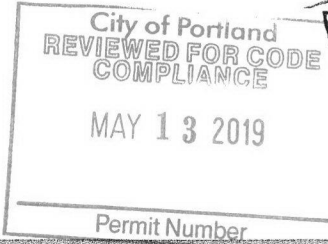
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.16	in (loc) l/defl L/d	MT20	185/148
TCDL 7.0	Plate Grip DOL 1.15	BC 0.05	Vert(LL) -0.01 15 n/r 120		
BCLL 0.0	Lumber DOL 1.15	WB 0.04	Vert(CT) -0.01 15 n/r 90		
BCDL 10.0	Rep Stress Incr YES	Matrix-R	Horz(CT) 0.00 14 n/a n/a		
	Code IRC2015/TPI2014			Weight: 95 lb	FT = 0%

LUMBER-	BRACING-
TOP CHORD 2x4 DF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 DF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 HF Std	

REACTIONS. All bearings 19-0-0.
 (lb) - Max Horz 2=79(LC 16)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 14, 22, 23, 24, 25, 26, 20, 19, 18, 17, 16
 Max Grav All reactions 250 lb or less at joint(s) 2, 14, 21, 22, 23, 24, 25, 26, 20, 19, 18, 17, 16

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 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=4.2psf, BCCL=6.0psf, h=25ft; Cat. II, Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 1-7-8 to 1-4-8, Exterior(2) 1-4-8 to 9-6-0, Corner(3) 9-6-0 to 12-6-0, Exterior(2) 12-6-0 to 20-7-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x3 MT20 unless otherwise indicated.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14, 22, 23, 24, 25, 26, 20, 19, 18, 17, 16.



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Job 18-CP2577	Truss B02	Truss Type ROOF SPECIAL	Qty 5	Ply 1	K6056730
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Precision Truss & Lumber, Inc., CLACKAMAS, OR - 97015.

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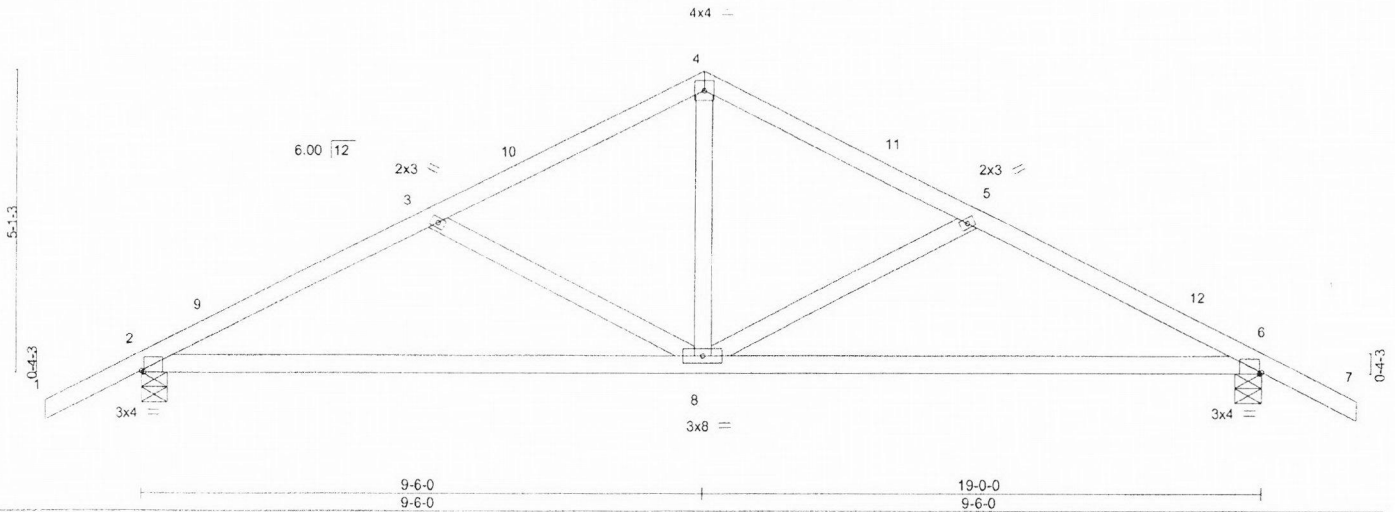


Plate Offsets (X,Y)-- [2-0-0-8,Edge], [6-0-0-8,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.29	Vert(LL)	-0.12	6-8	>999	MT20	185/148
TCDL 7.0	Lumber DOL	1.15	BC 0.67	Vert(CT)	-0.25	6-8	>898		
BCLL 0.0	Rep Stress Incr	YES	WB 0.25	Horz(CT)	0.03	6	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-R						
								Weight: 77 lb	FT = 0%

LUMBER-
 TOP CHORD 2x4 DF No.2
 BOT CHORD 2x4 DF No.2
 WEBS 2x4 HF Std

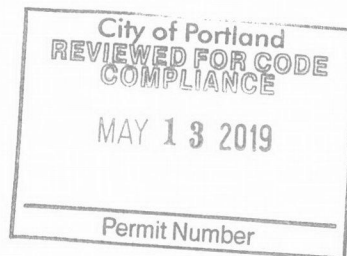
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-4-10 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=897/0-5-8, 6=897/0-5-8
 Max Horz 2=79(LC 12)
 Max Uplift 2=-113(LC 12), 6=-113(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown
 TOP CHORD 2-3=-1264/145, 3-4=-949/106, 4-5=-949/106, 5-6=-1264/144
 BOT CHORD 2-8=-127/1062, 6-8=-67/1062
 WEBS 4-8=0/510, 5-6=-336/152, 3-8=-336/151

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=4 2psf, BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-7-8 to 1-4-8, Interior(1) 1-4-8 to 9-6-0, Exterior(2) 9-6-0 to 12-6-0, Interior(1) 12-6-0 to 20-7-8 zone; cantilever left and right exposed, end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=-113, 6=113.



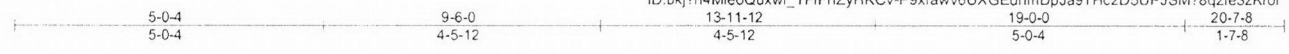
EXPIRES: 12-31-2019
 May 1, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)	K6056731
18-CP2577	B03	Roof Special	6	1		

Precision Truss & Lumber, Inc., CLACKAMAS, OR - 97015. 8.300 s Mar 22 2019 MiTek Industries, Inc. Wed May 1 13:49:44 2019 Page 1



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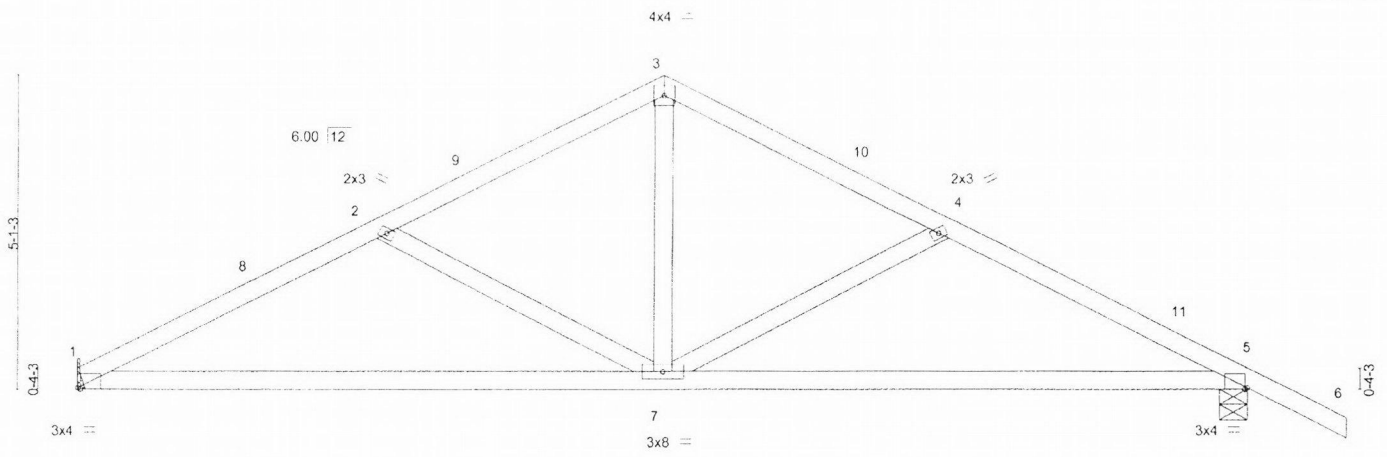


Plate Offsets (X,Y)--	[1.0-0-8,Edge], [5.0-0-8,Edge]
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LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.34	Vert(LL) -0.13	1-7	>999	240	MT20	185/148
TCDL 7.0	Lumber DOL 1.15	BC 0.70	Vert(CT) -0.28	1-7	>806	180		
BCLL 0.0	Rep Stress Incr YES	WB 0.27	Horz(CT) 0.03	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-R					Weight: 74 lb	FT = 0%

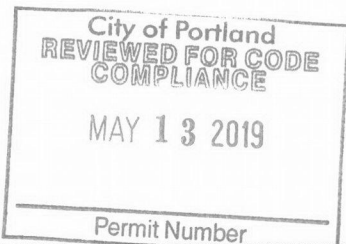
LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2
WEBS 2x4 HF Std

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

REACTIONS. (lb/size) 1=780/Mechanical, 5=910/0-5-8
Max Horz 1=-90(LC 13)
Max Uplift 1=-75(LC 12), 5=-114(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1317/182, 2-3=-982/129, 3-4=-980/117, 4-5=-1294/165
BOT CHORD 1-7=-146/1137, 5-7=-85/1088
WEBS 3-7=0/529, 4-7=-335/152, 2-7=-386/165

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-12 to 3-0-12, Interior(1) 3-0-12 to 9-6-0, Exterior(2) 9-6-0 to 12-6-0, Interior(1) 12-6-0 to 20-7-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown. Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * 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.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 5=114.



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Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)	K6056732
18-CP2577	B04	Roof Special Structural Gable	1	1		

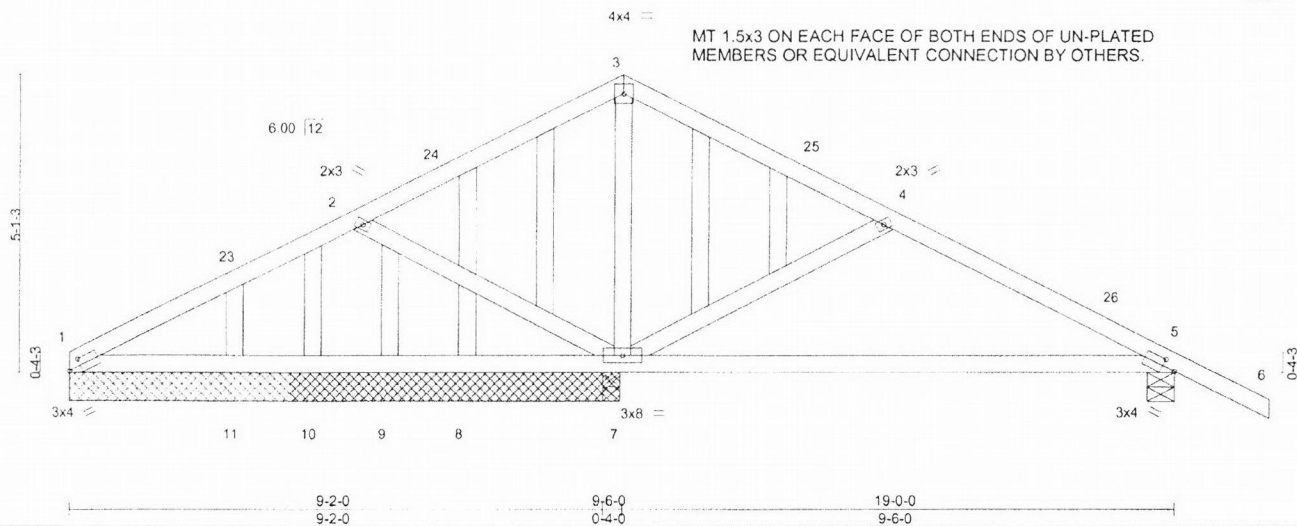
Precision Truss & Lumber, Inc., CLACKAMAS, OR - 97015,

8:300 s Mar 22 2019 MiTek Industries, Inc. Wed May 1 13:49:45 2019 Page 1

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Scale = 1:36.2



MT 1.5x3 ON EACH FACE OF BOTH ENDS OF UN-PLATED MEMBERS OR EQUIVALENT CONNECTION BY OTHERS.

Plate Offsets (X,Y)-- [1 0-2-10,0-1-8] [5 0-2-10,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.34	Vert(LL)	-0.13	5-7	>831	MT20	185/148
TCDL 7.0	Lumber DOL	1.15	BC 0.50	Vert(CT)	-0.27	5-7	>415		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.20	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R						
								Weight: 93 lb	FT = 0%

LUMBER-

TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2
WEBS 2x4 HF Std
OTHERS 2x4 HF Std

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.

REACTIONS.

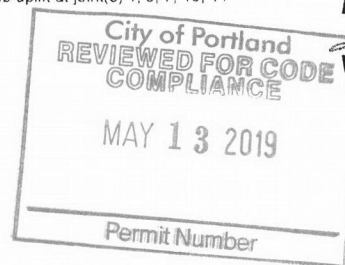
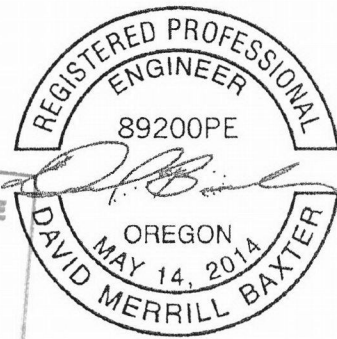
All bearings 9-5-8 except (jt=length) 5=0-5-8.
(lb) - Max Horz 1=-90(LC 17)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 7, 10, 11 except 8=-121(LC 3)
Max Grav All reactions 250 lb or less at joint(s) 1, 9, 10, 11 except 5=451(LC 24), 7=959(LC 1), 7=959(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-309/88, 4-5=-307/91
WEBS 3-7=-439/102, 4-7=-369/152, 2-7=-364/180

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind. ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=4 2psf; BC DL=6 0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 9-6-0, Exterior(2) 9-6-0 to 12-6-0, Interior(1) 12-6-0 to 20-7-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 7, 10, 11 except (jt=lb) 8=121.



EXPIRES: 12-31-2019
May 1, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII 1413 rev 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job	Truss	Truss Type	Qty	Ply	K6056733
18-CP2577	C01	Roof Special Supported Gable	1	1	

Precision Truss & Lumber, Inc., CLACKAMAS, OR - 97015,

8,300 s Mar 22 2019 MiTek Industries, Inc. Wed May 1 13:49:46 2019 Page 1
 ID:bkj?h4MieoQuxwi_TFFnZyHKCv-LY3Q_bwM09Wx75wxcjcdYrhS6uJGnQUlc7SliyzKrop



4x4 =

Scale = 1:33.4

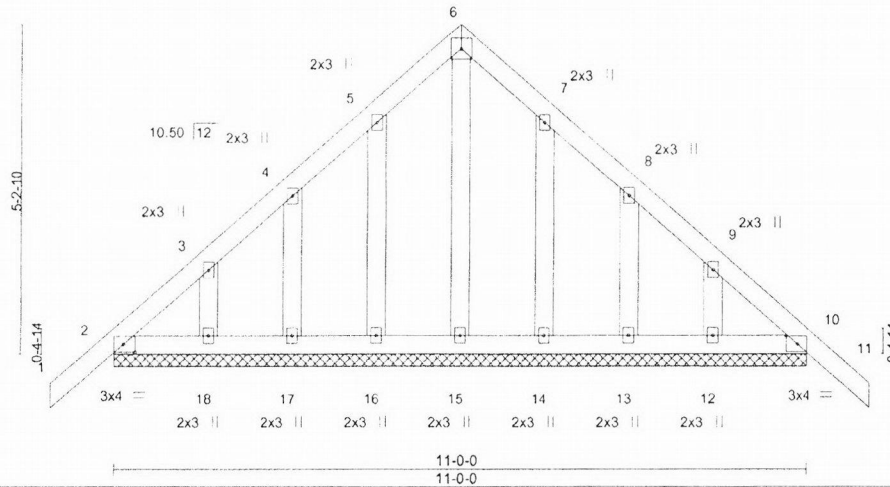


Plate Offsets (X,Y)-- [2:0-2-2,0-1-8], [10:0-2-2,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	-0.00	11	n/r	MT20	185/148
TCDL 7.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	-0.00	11	n/r		
BCLL 0.0	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	10	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-R						
								Weight: 61 lb	FT = 0%

LUMBER-
 TOP CHORD 2x4 DF No.2
 BOT CHORD 2x4 DF No.2
 OTHERS 2x4 HF Std

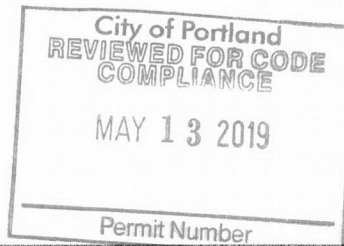
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 11-0-0.
 (lb) - Max Horz 2=120(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 16, 17, 18, 14, 13, 12
 Max Grav All reactions 250 lb or less at joint(s) 2, 10, 15, 16, 17, 18, 14, 13, 12

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 7-10; Vult=120mph (3-second gust) Vasd=95mph, TCCL=4.2psf, BCDL=6.0psf, h=25ft, Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-0-0 to 2-0-0, Exterior(2) 2-0-0 to 5-6-0, Corner(3) 5-6-0 to 8-6-0, Exterior(2) 8-6-0 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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing
- Gable studs spaced at 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 16, 17, 18, 14, 13, 12.



EXPIRES: 12-31-2019
 May 1, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-1473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314

MiTek
 250 Klug Circle
 Corona, CA 92680

Job	Truss	Truss Type	Qty	Ply	
16-CP2577	C02	Roof Special	1	1	

K6056734

Job Reference (optional)

Precision Truss & Lumber, Inc., CLACKAMAS, OR - 97015, 8.300 s Mar 22 2019 MiTek Industries, Inc. Wed May 1 13:49:47 2019 Page 1

ID:bkj?h4MieoQuxwi_TFFnZYHKcv-pkdoCxx_mSeoIFVoVR7s5wEZ7lcRWsWRqnCJEOzKroo



Scale = 1:31.6

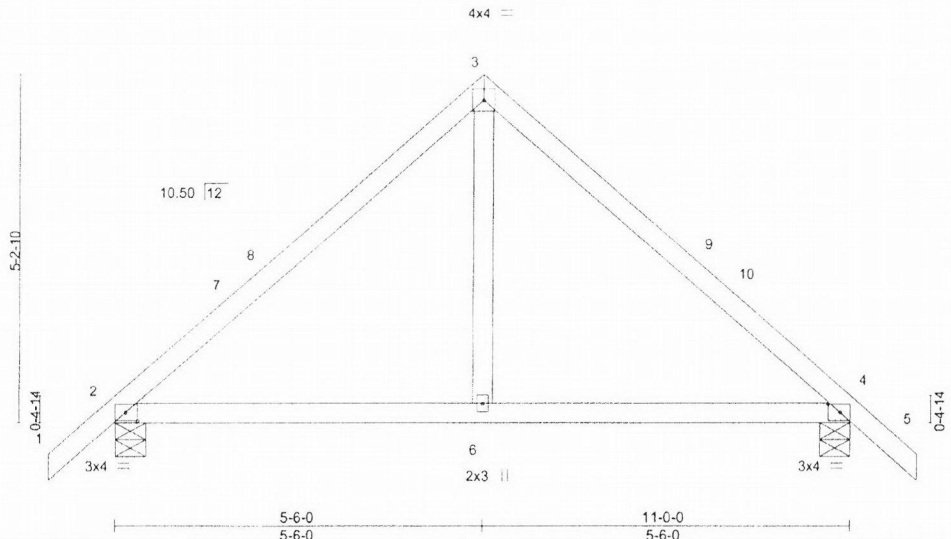


Plate Offsets (X,Y)-- [2-0-2-2,0-1-8], [4-0-2-2,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.30	Vert(LL)	-0.02	4-6	>999	MT20	185/148
TCDL 7.0	Lumber DOL	1.15	BC 0.23	Vert(CT)	-0.04	4-6	>999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.12	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-R						
								Weight: 44 lb	FT = 0%

LUMBER-
 TOP CHORD 2x4 DF No.2
 BOT CHORD 2x4 DF No.2
 WEBS 2x4 HF Std

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. (lb/size) 2=521/0-5-8, 4=521/0-5-8
 Max Horz 2=120(LC 11)
 Max Uplift 2=-57(LC 12), 4=-57(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown
 TOP CHORD 2-3=-488/77, 3-4=-488/77
 BOT CHORD 2-6=0/291, 4-6=0/291

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4 2psf, BCDL=6.0psf, h=25ft, Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 5-6-0, Exterior(2) 5-6-0 to 8-6-0, Interior(1) 8-6-0 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
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20 Dpsf 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.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.

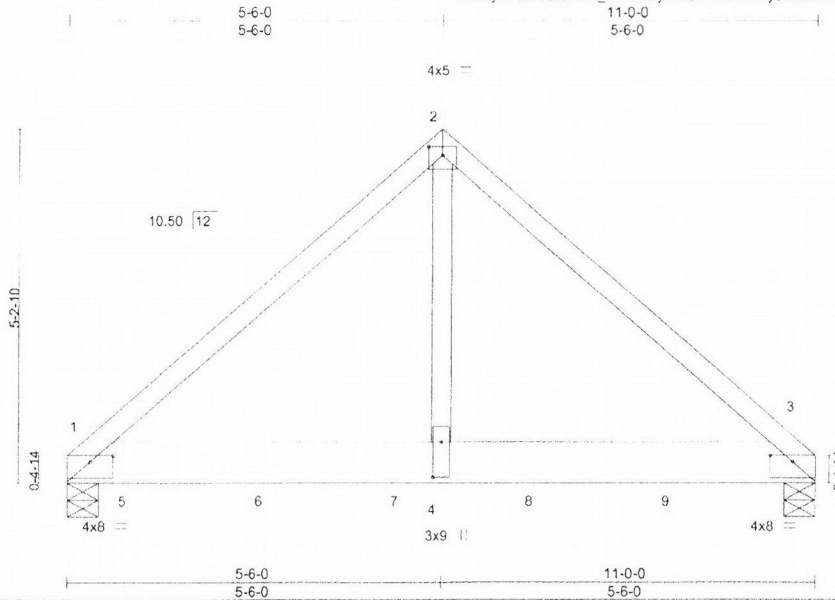


EXPIRES: 12-31-2019
 May 1, 2019

Job	Truss	Truss Type	Qty	Ply	K6056735
18-CP2577	C03	Roof Special Girder	1	1	

Precision Truss & Lumber, Inc., CLACKAMAS, OR - 97015,

8.300 s Mar 22 2019 MiTek Industries, Inc. Wed May 1 13:49:48 2019 Page 1
 ID:bkj?h4MieoQuxwi_TFFnZyHKCv-lwBAPHycXmmfMP4?28e5e7mihiozFDvb3RxsnrzKron



Scale = 1:31.1

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.44	Vert(LL)	-0.05	1-4	>999	MT20	220/195
TCDL 7.0	Lumber DOL	1.15	BC 0.85	Vert(CT)	-0.08	1-4	>999		
BCLL 0.0	Rep Stress Incr	NO	WB 0.49	Horz(CT)	0.01	3	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-R						
								Weight: 57 lb	FT = 0%

LUMBER-

TOP CHORD 2x4 DF No.2
 BOT CHORD 2x8 DF No.2
 WEBS 2x4 DF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-9-3 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(lb/size) 1=2550/0-5-8, 3=2142/0-5-8
 Max Horz 1=-100(LC 25)
 Max Uplift 1=-272(LC 8), 3=-227(LC 9)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-2300/283, 2-3=-2302/283
 BOT CHORD 1-4=-161/1644, 3-4=-161/1644
 WEBS 2-4=-238/2553

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=4.2psf; BC DL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=272, 3=227.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 764 lb down and 92 lb up at 0-11-4, 761 lb down and 95 lb up at 2-11-4, 761 lb down and 95 lb up at 4-11-4, and 761 lb down and 95 lb up at 6-11-4, and 761 lb down and 95 lb up at 8-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-64, 2-3=-64, 1-3=-20
 Concentrated Loads (lb)
 Vert: 5=-764(B) 6=-761(B) 7=-761(B) 8=-761(B) 9=-761(B)



EXPIRES: 12-31-2019
 May 1, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-1413 rev. 10/03/2015 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 ANSITP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

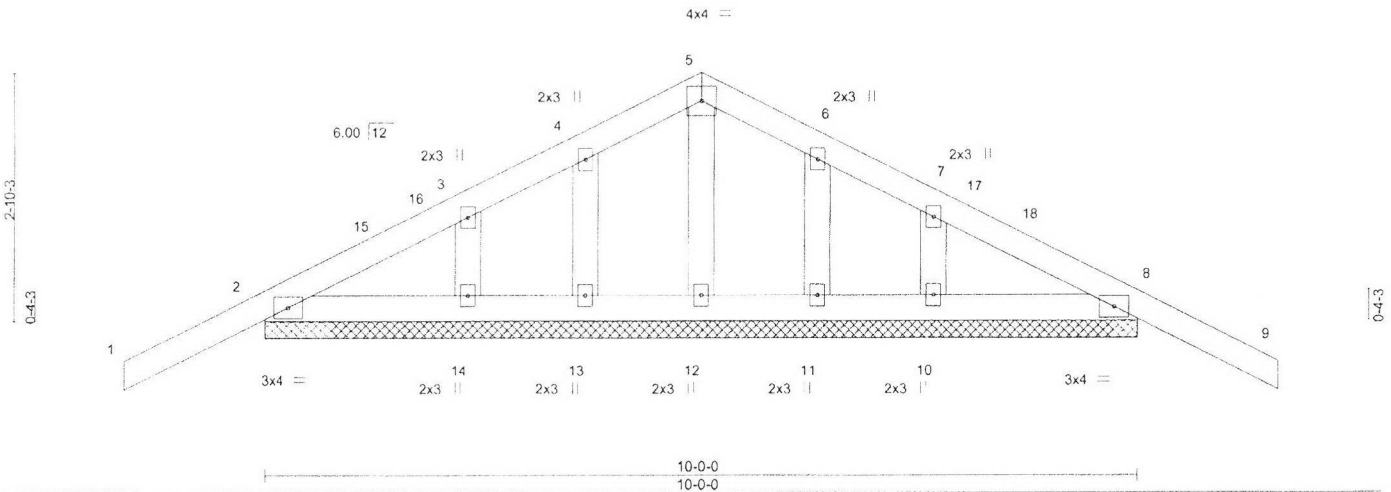


Job	Truss	Truss Type	Qty	Ply	K6056736
18-CP2577	D01	Common Supported Gable	1	1	

Precision Truss & Lumber, Inc., CLACKAMAS, OR - 97015, 8.300 s Mar 22 2019 MiTek Industries, Inc. Wed May 1 11:49:49 2019 Page 1
 ID: bkj?h4MieoQuxwi_TFFnZyHKCv-m7lYddzEISuW_ZeBcs9KALJxr6KN_nDkI5hQJHzKrom



Scale: 1/2"=1'



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.16	in (loc) l/defl L/d	MT20	185/148
TCDL 7.0	Plate Grip DOL 1.15	BC 0.07	Vert(LL) -0.01 9 n/r 120		
BCLL 0.0	Lumber DOL 1.15	WB 0.04	Vert(CT) -0.01 9 n/r 90		
BCDL 10.0	Rep Stress Incr YES	Matrix-R	Horz(CT) 0.00 8 n/a n/a		
	Code IRC2015/TPI2014			Weight: 43 lb	FT = 0%

LUMBER-	BRACING-
TOP CHORD 2x4 DF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 DF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 HF Std	

REACTIONS. All bearings 10-0-0
 (lb) - Max Horz 2=-47(LC 13)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 13, 14, 11, 10
 Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

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 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=4.2psf; BCCL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-7-8 to 1-4-8, Exterior(2) 1-4-8 to 5-0-0, Corner(3) 5-0-0 to 8-0-0, Exterior(2) 8-0-0 to 11-7-8 zone; cantilever left and right exposed; end vertical left and right exposed, C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 13, 14, 11, 10.

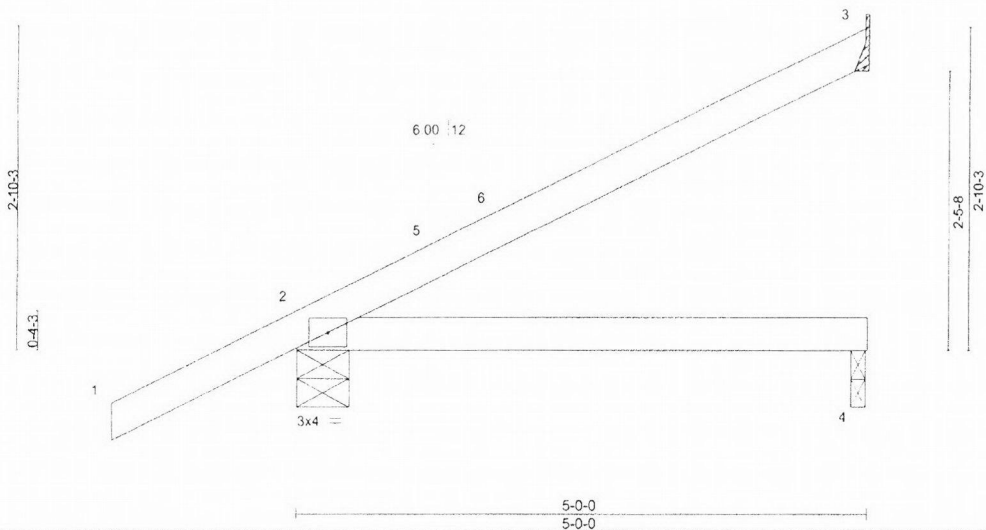
City of Portland
 REVIEWED FOR CODE COMPLIANCE
 MAY 13 2019
 Permit Number

REGISTERED PROFESSIONAL ENGINEER
 89200PE
 OREGON
 MAY 14, 2014
 DAVID MERRILL BAXTER
 EXPIRES: 12-31-2019
 May 1, 2019

Job 18-CP2577	Truss J05	Truss Type MONOPITCH	Qty 6	Ply 1	K6056737
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Precision Truss & Lumber, Inc., CLACKAMAS, OR - 97015, 8300 s Mar 22 2019 MiTek Industries, Inc. Wed May 1 13:49:50 2019 Page 1
 Job Reference (optional)
 ID:bkj?h4MieoQuxwi_TFifnZyHKCv-EJXqzss3N0ncDNAZhZjYs4rVeCjE2tWlQzrjkrol
 -1-7-8 5-0-0
 1-7-8 5-0-0

Scale = 1:18.5



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/def L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.27	Vert(LL) -0.03 2-4 >999 240	MT20	220/195
TCDL 7.0	Lumber DOL 1.15	BC 0.22	Vert(CT) -0.05 2-4 >999 180		
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P		Weight: 17 lb	FT = 0%

LUMBER-	BRACING-
TOP CHORD 2x4 DF No.2	TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD 2x4 DF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=127/Mechanical, 2=340/0-5-8, 4=47/0-1-8
 Max Horz 2=104(LC 12)
 Max Uplift 3=-71(LC 12), 2=-53(LC 12)
 Max Grav 3=127(LC 1), 2=340(LC 1), 4=94(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10, Vult=120mph (3-second gust) Vasd=95mph; TCCL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-7-8 to 1-4-8, Interior(1) 1-4-8 to 4-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.

REGISTERED PROFESSIONAL ENGINEER
89200PE
DAVID MERRILL BAXTER
OREGON
MAY 14, 2014
EXPIRES: 12-31-2019
May 1, 2019

City of Portland
REVIEWED FOR CODE COMPLIANCE
MAY 13 2019
Permit Number

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

