



DrJ Engineering, LLC (FKA: DrJ Consulting, LLC) 6300 Enterprise Lane Madison, Wisconsin 53719

Re: J1404154 Mike Church

MiTek 20/20 7.4

The Truss Design Drawing(s) (TDD[s]) referenced have been prepared based on the construction documents provided by the Building Designer indicating the nature and character of the work. The design criteria therein have been transferred to DrJ Engineering (DrJ) by ProBuild (Clackamas).

These TDDs are specialty component designs and may be part of the project's deferred or phased submittals. As a Truss Design Engineer (i.e., Specialty Engineer), the seal here and on any TDD represents an acceptance of professional engineering responsibility for the design of the single Truss depicted on the TDD only. The Building Designer is responsible for and shall coordinate and review the TDDs for compatibility with their written engineering requirements. Please review all TDDs and all related notes.

Pages or sheets covered by this seal: 18835399

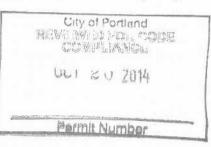
thru 18835418

My license renewal date for the state of Oregon is December 31, 2015.

Important Notice: Each TDD uses Metal Connector Plate (MCP) design values published by MCP manufacturers. Any referenced connectors use design values published by the connector manufacturer or the American Wood Council per the National Design Specification (NDS) for Wood Construction. The TDD further uses lumber design values published by the applicable lumber rules-writing agency as approved by the American Lumber Standards Committee. These are incorporated into lumber design provisions and equations created by the American Wood Council and input into modeling and analysis TDD software created and owned by the MCP manufacturers. The lumber design values correspond with the grade stamp identified by the Truss Manufacturer on the lumber prior to cross cutting. The lumber grading rules published by the rules-writing agency shall apply to the Owner, Building Designer and Contractor. All capitalized terms are as defined in ANSI/TPI 1, the National Design Standard for Metal Plate Connected Wood Truss Construction (TPI 1).







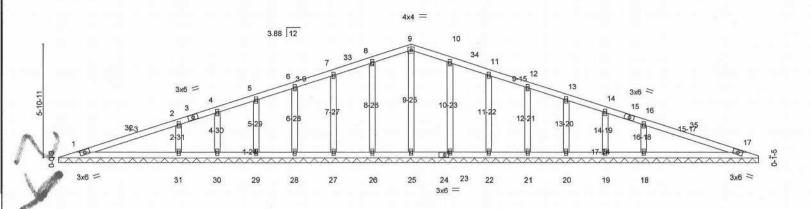
October 7,2014

Ryan Dexter, P.E.

The design assumptions, loading conditions, suitability and use of this set of Truss designs for any Building is the responsibility of the Owner, the Owner's authorized agent or the Building Designer, in the context of the IRC, the IBC, the local building code and TPI 1. The approval of the TDD and any field use of the Truss, including handling, storage, installation and bracing, shall be the responsibility of the Building Designer and Contractor. All notes set out in the TDD and the practices and guidelines of Building Component Safety Information (BCSI) published by TPI and SBCA are referenced for general guidance. TPI 1 defines the responsibilities and duties of the Truss Designer, Truss Design Engineer and Truss Manufacturer, unless otherwise defined by a Contract agreed upon in writing by the parties involved. The Truss Design Engineer is NOT the Building Designer or Truss System Engineer for any Building.

Qty Job Truss Truss Type Ply Mike Church 188353 59 J1404154 @ A01 GABLE Job Reference (optional) Beaverton, OR 97005 7 430 s Oct 14 2013 MiTek Industries Inc. Mon Oct 06 16:54:25 2014 Page 1 Pro-Build Beaverton Truss, ID:WXB4QlyhvkRdarV00i9R7xzgYY_-yK6r6DRES?pNKUPc48uFgRH1_lubdZCt71mLvHyW45i 36-1-4 18-2-6 18-2-6 17-10-14

Scale = 1:59.5



36-1-4 36-1-4 Plate Offsets (X,Y): [24:0-2-6,0-1-8] LOADING (psf) SPACING 2-0-0 CSI DEFL in (loc) I/defl L/d **PLATES** GRIP 999 220/195 TCLL 25.0 TC 0.21 Vert(LL) Plates Increase 1.15 n/a n/a MT20 TCĎ 70 Lumber Increase 1 15 BC 0 13 Vert(TL) n/a n/a 999 BCLL 0.0 Rep Stress Incr YES WB 0.10 Horz(TL) 0.00 17 n/a n/a 10.0 Code IRC2009/TPI2007 (Matrix) Weight: 158 lb FT = 10%

HWBER

TOP CHORD 2x4 DF No.1&Btr G BOT CHORD 2x4 DF No.1&Btr G OTHERS 2x4 DF Std G

BRACING

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing

REACTIONS All bearings 36-1-4.

Max Horz 1=-76(LC 6) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 26, 27, 28, 29, 30, 23, 22, 21, 20, 19, 17 except 31=-191(LC

8), 18=-191(LC 8)

Max Grav All reactions 250 lb or less at joint(s) 1, 25, 26, 27, 28, 29, 30, 23, 22, 21, 20, 19, 17 except 31=475(LC 12), 18=475(LC 13)

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

TOP CHORD 8-9=-29/261, 9-10=-29/261

WEBS 2-31=-330/308, 16-18=-330/308

NOTES

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

2) Wind: AS E 7-05; 115mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=0ft; L=0ft; eave=2ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C C inner(3) 0-10-12 to 3-10-12, Exterior(2) 3-10-12 to 15-2-6, Corner(3) 15-2-6 to 18-2-6, Exterior(2) 21-2-6 to 32-6-0 zone;

cantilevel left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

4) All plates are 2x4 MT20 unless otherwise indicated.

5) Gable requires continuous bottom chord bearing.6) Gable studs spaced at 2-0-0 oc.

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

8) This trus 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.

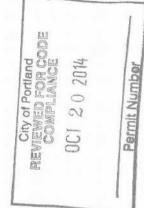
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 26, 27, 28, 29, 30, 23, 22, 21, 20, 19, 17 except (t=lb) 31=191, 18=191.

11) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced

standard ANSI/TPI 1

12) "Fix heels only" Member end fixity model was used in the analysis and design of this truss.

LOAD CASE(S) Standard





RENEWAL DATE: 12/31/2015 October 7.2014

WARNING - Please thoroughly review the "Customer's Acknowledgement of ProBuild Standard Terms for Manufactured Products" form. Verify design parameters and read notes on this Truss Design Drawing (TDD) and the DrJ Reference Sheet (rev. 10-14) before use Unless otherwise stated on the TDD, only MiTek connector plates shall be used for this TDD to be valid. As a Truss Design Engineer (i.e., Specialty Engineer), the seal on any TDD represents an acceptance of the professional engineering responsibility for the design of the single Truss depicted on the TDD only, under TPI 1. The design assumptions, loading conditions, suitability and use of this Truss for any Building is the responsibility of the Owner; the Owner's authorized agent or the Building Designer, in the context of the IRC, the IBC, the local building code and TPI 1. The approval of the TDD and any field use of the Truss, including handling, storage, installation and bracing, shall be the responsibility of the Building Designer and Contractor. All notes set out in the TDD and the practices and guidelence TPI 1 defines the responsibilities and duties of the Truss Designer, Truss Design Engineer and Truss Manufacturer, unless otherwise defined by a Contract agreed upon in writing by all parties involved. The Truss Design Engineer is NOT the Building Designer or Truss System Engineer for any building. All capitalized terms are as defined in TPI 1



Truss Truss Type Job Qty Mike Church 18835400 J1404154 A02 COMMON 5 | Job Reference (optional)
7.430 s Oct 14 2013 MiTek Industries, Inc. Mon Oct 06 16:54:26 2014 Page 1
ID:WXB4QlyhvkRdarV00i9R7xzgYY_-QWgDJZRsDixEye_oerPUCfq7_i6mMp50MhWuRjyW45h Pro-Build Beaverton Truss. Beaverton, OR 97005 25-11-0 6-0-13 18-2-6 24-3-3 12-1-9 6-0-13 6-0-13 6-0-13 Scale = 1:44.5 4x4 = DS 12 3.88 12 3x4 = **₽**5 B 2x4 > 11 🖾 8 10 9 4x6 3x4 = 3x6 = 3x8 = 5x6 = 18-2-6 25-11-0 8-7-11 9-6-11 7-8-10 Plate Offsets (X,Y): [7:0-3-0,0-2-12], [9:0-1-15,0-1-8] **PLATES** GRIP

						1				
LOADIN	IG (psf)	SPACING	2-3-0	CSI		DEFL	in	(loc)	I/defl	L/d
TCLL	25.0	Plates Increase	1.15	TC	0.51	Vert(LL)	-0.14	9-10	>999	240
TCDL	7.0	Lumber Increase	1.15	BC	0.65	Vert(TL)	-0.46	9-10	>662	180
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.95	Horz(TL)	0.08	7	n/a	n/a
BCDL	10.0	Code IRC2009/TR	212007	(Matr	rix)					

BRACING

TOP CHORD

2-0-0 oc purlins (3-6-1 max.), except end verticals (Switched from sheeted: Spacing > 2-0-0).

MT20

Weight: 123 lb

220/195

FT = 10%

MEN

38

BOT CHORD

Rigid ceiling directly applied or 6-6-5 oc bracing.

LUMBER

WEBS

REACTIONS (lb/size) 1=1207/0-5-8 (min. 0-1-8), 7=1207/Mechanical

Max Horz 1=201(LC 8)

2x4 DF Std G *Except

6-7: 2x4 DF No.1&Btr G

TOP CHORD 2x4 DF No.1&Btr G

BOT CHORD 2x4 DF No.1&Btr G

Max Uplift 1=-399(LC 8), 7=-428(LC 8)

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

TOP CHORD 1-11=-2812/955, 2-11=-2751/965, 2-3=-2479/817, 3-12=-1221/449, 4-12=-1140/456,

4-13=-1140/455, 13-14=-1152/448, 5-14=-1220/441

BOT CHORD 1-10=-1040/2594, 9-10=-744/1911, 8-9=-201/460, 7-8=-201/460

WEBS 2-10=-387/303, 3-10=-87/607, 3-9=-1004/493, 4-9=-55/396, 5-9=-163/755,

5-7=-1340/586

NOTES

Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-05; 115mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=0ft; L=0ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) 0-2-12 to 3-2-12, Interior(1) 3-2-12 to 15-2-6, Exterior(2) 15-2-6 to 18-2-6, Interior(1) 21-2-6 to 22-9-3 zone; cantilever 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) A plate rating reduction of 20% has been applied for the green lumber members.

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

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=399, 7=428.
- 8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

9) "Fix heels only" Member end fixity model was used in the analysis and design of this truss.

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

LOAD CASE(S) Standard



RENEWAL DATE 12/31/2015 October 7,2014

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Job Truss Truss Type Qty Ply Mike Church 18835481 J1404154 A02A GABLE Job Reference (optional)
7.430 s Oct 14 2013 MiTek Industries. Inc. Mon Oct 06 16:54:28 2014 Page 1 Pro-Build Beaverton Truss, Beaverton, OR 97005 ID:WXB4QlyhvkRdarV00i9R7xzgYY_-Nvn_kET7kwBxBx8BlGRyl4vOPVmtqmRJq????VcyW45f 18-2-6 24-3-3 25-11-0 6-0-13 12-0-12 12-1-9 0-0-13 6-0-13 6-0-13 1-7-13 6-0-13 5-11-15 Scale = 1:43.9 4x4 = 3.88 12 3x10 = 6x8 = 5 0-9-0 0 7-9 1-9 12 9 11 10 8 3x10 = 3x4 = 4x6 = LUS24 4x10 =4x6 = 8-7-11 12-0-12 18-2-6 25-11-0 8-7-11 3-5-1 6-1-10 7-8-10 Plate Offsets (X,Y): [3:0-2-6,0-1-8], [5:0-4-0,0-1-8], [9:0-2-6,0-2-0], [10:0-5-0,0-2-4] LOADING (psf) **SPACING** CSI in (loc) I/defl L/d PLATES GRIP 25.0 220/195 TCLL TC 0.84 Vert(LL) -0.16 11-12 >999 240 Plates Increase 1.15 MT20 TCDL 70 Lumber Increase 1 15 RC. 0.80 Vert(TL) -0.37 1-12 >823 180 BCII 00 Rep Stress Incr NO WR 0.71 Horz(TL) 0.09 n/a n/a **BCDI** 100 Code IRC2009/TPI2007 (Matrix) Weight: 175 lb FT = 10%

BRACING

TOP CHORD

BOT CHORD

WEBS

end verticals.

1 Row at midpt

LUMBER

TOP CHORD 2x4 DF No.1&Btr G

2x6 DF No.2 **BOT CHORD**

WEBS 2x4 DF Std G *Except*

6-7: 2x4 DF No.1&Btr G

OTHERS 2x4 DF Std G

REACTIONS (lb/size) 1=1610/0-5-8 (min. 0-1-11), 7=1921/Mechanical

Max Horz 1=175(LC 7)

Max Uplift 1=-419(LC 7), 7=-279(LC 7)

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

TOP CHORD 1-2=-4111/1078, 2-3=-3848/939, 3-4=-1989/396, 4-5=-1991/394

BOT CHORD 1-12=-1133/3815, 11-12=-832/3364, 10-11=-832/3364, 9-10=-111/739, 8-9=-111/739,

7-8=-117/734

WEBS 2-12=-254/273, 3-12=-126/396, 3-10=-1897/653, 4-10=-85/629, 5-10=-207/1240,

5-7=-2234/355, 3-11=-184/717

NOTES

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

2) Wind: ASCE 7-05; 115mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=0ft; L=0ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

4) All plates are 2x4 MT20 unless otherwise indicated.

5) Gable studs spaced at 2-0-0 oc.

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.

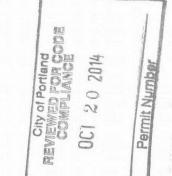
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=419, 7=279.
- 11) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

13) "Fix heels only" Member end fixity model was used in the analysis and design of this truss.

14) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent at 12-0-12 from the left end to connect truss(es) FG02 (1 ply 2x6 DF) to front face of bottom chord.

15) Fill all nail holes where hanger is in contact with lumber.

ქტისის განის განის section, loads applied to the face of the truss are noted as front (F) or back (B).



Structural wood sheathing directly applied or 2-9-12 oc purlins, except

Rigid ceiling directly applied or 7-4-7 oc bracing.

3-10



RENEWAL DATE: 12/31/2015 October 7,2014

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Job *	Truss	Truss Type	Qty	Ply		Mike Church	10005404
J1404154	A02A	GABLE	2		1		18835401
Pro-Build Beaverton Truss,	Beaverton, OR 97005		ID:WVP40	Olybyk		Job Reference (optional) 30 s Oct 14 2013 MiTek Industries, Inc.	Mon Oct 06 16:54:28 2014 Page 2 BBIGRyI4vOPVmtqmRJq???VcyW45f
			ID.VVAD40	GIYIIVKI	rtuai vi	DOISK / AZG T IINVII_KE T / KWDADAC	DIGITAL PROPERTY OF A LINE AND A
LOAD CASE(S) Standard		E Ploto Ingrasso-1 15					
Uniform Loads (plf)	nced): Lumber Increase=1.1	5, Plate Increase=1.15					
	3-4=-107(F=-43), 4-6=-107(F	=-43), 1-11=-20, 7-11=-33(F=-13)					
Concentrated Loads (lb)							
Vert: 11=-618(F 2) Dead + Uninhabitable A	Contract to the contract of th	r Increase=1.25, Plate Increase=1.25					
Uniform Loads (plf)							
), 1-11=-40, 7-11=-53(F=-13)					
Concentrated Loads (lb) Vert: 11=-363(F							
3) Dead + 0.6 MWFRS Win		per Increase=1.60, Plate Increase=1.60					
Uniform Loads (plf)	-4=16(F=-9), 4-6=9(F=-9), 1-	.11=-12 7-11=-25/F=-13)					
Horz: 1-4=-34, 4		11-12, 1-11-20(1-10)					
Concentrated Loads (lb))						
Vert: 11=274(F)		nber Increase=1.60, Plate Increase=1.6	0				
Uniform Loads (plf)	nd (Fos. Internal) Night. Lun	ibel mcrease=1.00, Flate mcrease=1.0	0				
Vert: 1-3=18, 3-	-4=9(F=-9), 4-6=16(F=-9), 1-	-11=-12, 7-11=-25(F=-13)					
Horz: 1-4=-26, 4 Concentrated Loads (lb)							
Vert: 11=274(F)							
	nd (Neg. Internal) Left: Luml	per Increase=1.60, Plate Increase=1.60					
Uniform Loads (plf) Vert: 1-3=-9 3-4	4=-19(F=-9), 4-6=-5(F=-9), 1	-11=-12 7-11=-25(F=-13)					
Horz: 1-4=1, 4-6		17. 12, 7.11 25(1 15)					
Concentrated Loads (lb)							
Vert: 11=274(F)		nber Increase=1.60, Plate Increase=1.6	60				
Uniform Loads (plf)	na (reg. memai) right. La	mor morease=1.00, 1 late morease=1.0	,0				
	I=-5(F=-9), 4-6=-19(F=-9), 1	-11=-12, 7-11=-25(F=-13)					
Horz: 1-4=-13, 4 Concentrated Loads (lb)							
Vert: 11=274(F)							
· · · · · · · · · · · · · · · · · · ·	nd (Pos. Internal) 1st Paralle	el: Lumber Increase=1.60, Plate Increas	se=1.60				
Uniform Loads (plf) Vert: 1-3=41, 3-	-4=31(F=-9), 4-6=31(F=-9),	1-11=-12, 7-11=-25(F=-13)					
Horz: 1-4=-49, 4							
_Concentrated Loads (lb)							
Vert: 11=274(F) 8) Dead + 0.6 MWFRS Wii		el: Lumber Increase=1.60, Plate Increas	se=1.60				
Uniform Loads (plf)							
Vert: 1-3=41, 3- Horz: 1-4=-49, 4	-4=31(F=-9), 4-6=31(F=-9), 1 4-6=49	1-11=-12, 7-11=-25(F=-13)					
Concentrated Loads (lb)							
Vert: 11=274(F)							
 Dead + 0.6 MWFRS Wir Uniform Loads (plf) 	nd (Neg. Internal) 1st Paralle	el: Lumber Increase=1.60, Plate Increas	se=1.60				
	4=-19(F=-9), 4-6=-19(F=-9),	1-11=-12, 7-11=-25(F=-13)					
Horz: 1-4=1, 4-6							
Concentrated Loads (lb) Vert: 11=274(F)							
		allel: Lumber Increase=1.60, Plate Incre	ease=1.60				
Uniform Loads (plf)	0 4- 10/E- 0) 4 6- 10/E- 0), 1-11=-12, 7-11=-25(F=-13)					
Horz: 1-4=1, 4), 1-1112, 7-1123(113)					
Concentrated Loads (II							
Vert: 11=274(I		ase=1.15, Plate Increase=1.15					
Uniform Loads (plf)	anbalanoca). Lamber merec	1.15, 1 late morease=1.15					
		=-43), 1-11=-20, 7-11=-33(F=-13)					
Concentrated Loads (II Vert: 11=-618)							
		ase=1.15, Plate Increase=1.15				City of Por	rtland
Uniform Loads (plf)						REVIEWED FO	PRODE
Vert: 1-3=-14, Concentrated Loads (II		=-43), 1-11=-20, 7-11=-33(F=-13)				COMPLIA	INGE
Vert: 11=-618						00120	2041
						1 001 60	4014

City of Portland REVIEWED FOR CODE COMPLIANCE OCI 20 2014 Permit Number

Ply

Mike Church

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Job Truss Truss Type Qty Ply Mike Church 18835402 J1404154 A03 Common Job Reference (optional)
7.430 s Oct 14 2013 MiTek Industries, Inc. Mon Oct 06 16:54:29 2014 Page 1 Pro-Build Beaverton Truss Beaverton OR 97005 ID:WXB4QlyhvkRdarV00i9R7xzgYY_-r5LMyaUlVDJop5jNJzzBqHSh0vAPZBKS2fkY22yW45e 6-0-13 18-2-6 24-3-3 25-11-0 6-0-13 6-0-13 6-0-13 1-7-13 6-0-13 Scale = 1:44.5 4x4 = 13 3.88 12 8x8 > 3x4 = 5 2x4 || 6 2x4 N 7-9 \aleph 11 10 7 3x6 3x4 = 3x10 3x4 = 2x4 11 8-7-11 18-2-6 23-8-4 25-11-0 8-7-11 9-6-11 5-5-14 2-2-12 Plate Offsets (X,Y): [1:0-0-0,0-0-10], [5:0-4-0,0-3-4], [10:0-3-0,0-1-8] LOADING (psf) SPACING 2-0-0 CSI DEFL L/d **PLATES** GRIP in (loc) I/defl 220/195

LUMBER

TCLL

TCDL

BCLL

BCDL

TOP CHORD 2x4 DF No.1&Btr G **BOT CHORD** 2x4 DF No.1&Btr G

25.0

70

0.0

10.0

WEBS 2x4 DF Std G *Except* 6-7: 2x4 DF No.1&Btr G BRACING

Vert(LL)

Vert(TL)

Horz(TL)

TOP CHORD

-0.14 10-11

-0.45 10-11

0.05

Structural wood sheathing directly applied or 4-1-0 oc purlins, except

MT20

Weight: 128 lb

FT = 10%

end verticals

8

>999

>625

n/a

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

240

180

n/a

REACTIONS (lb/size) 1=977/0-5-8 (min. 0-1-8), 8=1169/0-5-8 (min. 0-1-8)

Plates Increase

Lumber Increase

Rep Stress Incr

Code IRC2009/TPI2007

Max Horz 1=179(LC 9)

Max Uplift 1=-321(LC 8), 8=-471(LC 9)

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

TOP CHORD 1-12=-2229/751, 2-12=-2175/759, 2-3=-1925/625, 3-13=-781/296, 4-13=-709/302,

1.15

1.15

YES

4-14=-709/301, 14-15=-720/295, 5-15=-781/289

BOT CHORD 1-11=-833/2052, 10-11=-564/1420

WEBS 2-11=-353/276, 3-11=-80/561, 3-10=-903/440, 5-10=-288/964, 5-8=-1102/493

NOTES

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

2) Wind: ASCE 7-05; 115mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=0ft; L=0ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) 0-2-12 to 3-2-12, Interior(1) 3-2-12 to 15-2-6, Exterior(2) 15-2-6 to 18-2-6, Interior(1) 21-2-6 to 22-9-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

TC

BC

WB

(Matrix)

0.33

0.53

0.86

3) 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.

5) A plate rating reduction of 20% has been applied for the green lumber members.

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 1=321, 8=471
- 7) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1
- 8) "Fix heels only" Member end fixity model was used in the analysis and design of this truss.

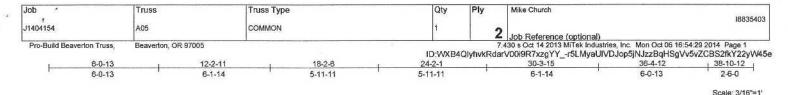
LOAD CASE(S) Standard

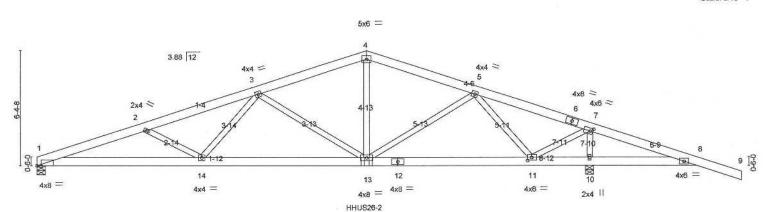


RENEWAL DATE: 12/31/2015 October 7,2014

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1.6		9-1-3		18-2-6	1.000	1	27-3-9		30-8-12	36-4-12	
E)		9-1-3		9-1-3		4.	9-1-3		3-5-3	5-8-0	
Plate Of	fsets (X,Y): [1:	0-2-11,Edge], [7:0-1-12	.0-2-0]. [11:0-	2-12,0-2-0]							
LOADIN	G (psf)	SPACING	2-0-0	CSI		DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plates Increase	1.15	TC	0.43	Vert(LL)	-0.16 13-14	>999	240	MT20	220/195
TCDL	7.0	Lumber Increase	1.15	BC	0.88	Vert(TL)	-0.45 13-14	>806	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.80	Horz(TL)	0.10 10	n/a	n/a		
BCDL	10.0	Code IRC2009/TF	PI2007	(Matr	rix)					Weight: 432 lb	FT = 10%

BRACING

TOP CHORD

LUMBER

TOP CHORD 2x6 DF No.2 BOT CHORD 2x6 DF No.2

2x4 DF/Std G

REACTIONS

(lb/size) 1=3622/0-5-8 (min. 0-1-15), 10=3426/0-5-8 (min. 0-1-13) Max Horz 1=-96(LC 5) Max Uplift 10=-850(LC 8)

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

TOP CHORD 1-2=-9155/0, 2-3=-8031/0, 3-4=-4727/214, 4-5=-4585/198, 5-6=-2153/0, 6-7=-2157/0,

7-8=-966/1183

1-14=0/8549, 13-14=0/6553, 12-13=0/3337, 11-12=0/3337, 10-11=-1234/1053, BOT CHORD

8-10=-1063/1009

4-13=0/2164, 5-13=0/1177, 5-11=-2304/525, 7-11=-652/3631, 3-13=-2711/0, WEBS

3-14=0/1511, 2-14=-1238/111, 7-10=-3214/788

NOTES

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 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 7-05; 115mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=0ft; L=0ft; eave=5ft; Cat. II; Exp B; enclosed; MWFRS (all heights); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

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

6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=850.

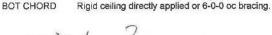
9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced

10) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss

11) "Fix heels only" Member end fixity model was used in the analysis and design of this truss.

12) Use Simpson Strong-Tie HHUS26-2 (14-10d Girder, 4-10d Truss) or equivalent at 18-2-6 from the left end to connect truss(es) FG01 (2 ply 2x6 DF) to back face of bottom chord.

13) Fill all nail holes where hanger is in contact with lumber.



City of Perhand REVIEWED FOR CODE

Structural wood sheathing directly applied or 5-0-4 oc purlins.

OCT 2.0 2014

Permit Number



RENEWAL DATE 12/31/2015 October 7,2014

COMPLEASE(S)geStandard

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J1404154 A05 COMMON 1				18835403
	-			5300-2006-620-23
		2	Job Reference (optional)	
Pro-Build Beaverton Truss, Beaverton, OR 97005	4QlvhvkF		30 s Oct 14 2013 MiTek Industries, Inc. Mon Oct 06 /00i9R7xzgYYr5LMyaUIVDJop5jNJzzBqHS	
This was a second of the secon				
LOAD CASE(S) Standard				
 Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (pif) 				
Vert: 1-4=-189(F=-125), 4-9=-64, 1-13=-59(F=-39), 8-13=-20				
Concentrated Loads (lb)				
Vert: 13=-909(B)				
Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25 Uniform Leads (all)				
Uniform Loads (plf) Vert: 1-4=-41(F=-27), 4-9=-14, 1-13=-79(F=-39), 8-13=-40				
Concentrated Loads (lb)				
Vert: 13=-644(B)				
3) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60				
Uniform Loads (plf)				
Vert: 1-4=-2(F=-27), 4-8=18, 8-9=11, 1-13=-51(F=-39), 8-13=-12 Horz: 1-4=-34, 4-8=26, 8-9=20				
Concentrated Loads (lb)				
Vert: 13=382(B)				
4) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60				
Uniform Loads (plf) Vert: 1-4=-9(F=-27), 4-8=25, 8-9=45, 1-13=-51(F=-39), 10-13=-12, 8-10=14				
Horz: 1-4=-26, 4-8=34, 8-9=53				
Concentrated Loads (lb)				
Vert: 13=382(B)				
5) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60				
Uniform Loads (plf) Vert: 1-4=-37(F=-27), 4-8=4, 8-9=11, 1-13=-51(F=-39), 8-13=-12				
Horz: 1-4=1, 4-8=13, 8-9=20				
Concentrated Loads (lb)				
Vert: 13=382(B)				
 Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (pif) 				
Vert: 1-4=-23(F=-27), 4-8=-9, 8-9=-3, 1-13=-51(F=-39), 10-13=-12, 8-10=14				
Horz: 1-4=-13, 4-8=-1, 8-9=6				
Concentrated Loads (lb)				
Vert: 13=382(B)				-3
 Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (pif) 				
Vert: 1-4=14(F=-27), 4-8=41, 8-9=60, 1-13=-51(F=-39), 8-13=-12				40
Horz: 1-4=-49, 4-8=49, 8-9=68				
Concentrated Loads (lb)				•
Vert: 13=382(B)				
 Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (pif) 				
Vert: 1-4=14(F=-27), 4-8=41, 8-9=60, 1-13=-51(F=-39), 10-13=-12, 8-10=14				
Horz: 1-4=-49, 4-8=49, 8-9=68				
Concentrated Loads (lb)				
Vert: 13=382(B) 9) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60				
Uniform Loads (plf)				
Vert: 1-4=-37(F=-27), 4-8=-9, 8-9=-3, 1-13=-51(F=-39), 8-13=-12				
Horz: 1-4=1, 4-8=-1, 8-9=6				
Concentrated Loads (lb)				
Vert: 13=382(B) 10) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60				
Uniform Loads (plf)				
Vert. 1-4=-37(F=-27), 4-8=-9, 8-9=-3, 1-13=-51(F=-39), 10-13=-12, 8-10=14				
Horz: 1-4=1, 4-8=-1, 8-9=6				
Concentrated Loads (lb) Vert: 13=382(B)		F 2123	of Portland	8
11) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15	DEV.	BETWEEN THE	VED FOR CODE	
Uniform Loads (plf)	ALPRE A	gree years	MPLIANCE	
Vert: 1-4=-189(F=-125), 4-9=-14, 1-13=-59(F=-39), 8-13=-20			CONTRACTOR OF THE PROPERTY OF	
Concentrated Loads (lb) Vert: 13=-909(B)	1	CT	2.0 2014	
12) 2nd Dead + Roof Live (unbalanced); Lumber Increase=1.15, Plate Increase=1.15	· ·	141	No. of Section	

Permit Number

Concentrated Loads (lb) Vert: 13=-909(B)

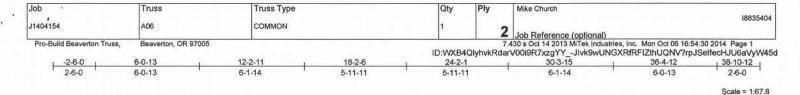
Vert: 1-4=-139(F=-125), 4-9=-64, 1-13=-59(F=-39), 8-13=-20

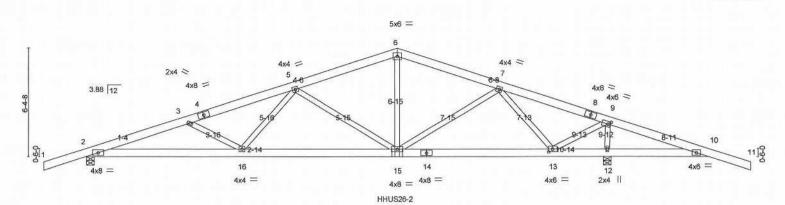
Uniform Loads (plf)

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	1	9-1-3 9-1-3	-		3-2-6 -1-3		27-3-9 9-1-3		30-8		4-12 3-0
Plate Of	fsets (X,Y): [9:	0-1-12,0-2-0], [13:0-2-1	2,0-2-0]								
LOADIN	IG (psf)	SPACING	2-0-0	CSI		DEFL	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL	25.0	Plates Increase	1.15	TC	0.39	Vert(LL)	-0.16 15-16	>999	240	MT20	220/195
TCDL	7.0	Lumber Increase	1.15	BC	0.78	Vert(TL)	-0.45 15-16	>810	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.79	Horz(TL)	0.10 12	n/a	n/a		
BCDL	10.0	Code IRC2009/TF	PI2007	(Matr	rix)					Weight: 443	lb FT = 10%

BRACING TOP CHORD

BOT CHORD

LUMBER

TOP CHORD 2x6 DF No.2 **BOT CHORD** 2x6 DF No.2

WEBS 2x4 DF Std G

REACTIONS (lb/size) 2=4145/0-5-8 (min. 0-2-3), 12=3380/0-5-8 (min. 0-1-13)

Max Horz 2=91(LC 6) Max Uplift 12=-836(LC 8)

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

2-3=-8840/0, 3-4=-7768/0, 4-5=-7606/0, 5-6=-4632/184, 6-7=-4469/169, 7-8=-2099/0, TOP CHORD

8-9=-2104/0, 9-10=-967/1184

BOT CHORD 2-16=0/8191, 15-16=0/6398, 14-15=0/3266, 13-14=0/3266, 12-13=-1232/1053,

10-12=-1064/1009

6-15=0/2109, 7-15=0/1152, 7-13=-2271/514, 9-13=-634/3570, 5-15=-2634/0,

5-16=0/1366, 3-16=-1107/85, 9-12=-3167/774

NOTES

WEBS

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 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 7-05; 115mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=0ft; L=0ft; eave=5ft; Cat. II; Exp B; enclosed; MWFRS (all heights); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

7) A plate rating reduction of 20% has been applied for the green lumber members.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 12=836.

9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

10) "Fix heels only" Member end fixity model was used in the analysis and design of this truss.

11) Use Simpson Strong-Tie HHUS26-2 (14-10d Girder, 4-10d Truss) or equivalent at 18-2-6 from the left end to connect truss(es) FG01 (2 ply 2x6 DF) to front face of bottom chord.

12) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

Continued on page 2



City of Portland

REVIEWED FOR CODE COMPLIANCE

OCT 2 0 2014

Perfull Number

Structural wood sheathing directly applied or 5-4-9 oc purlins.

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

RENEWAL DATE: 12/31/2015 October 7,2014

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Truss Type Job Truss Qty Ply Mike Church 18835404 J1404154 A06 COMMON

Pro-Build Beaverton Truss,

Beaverton, OR 97005

Lipho Reference (optional)
7.430 s Oct 14 2013 MiTek Industries, Inc. Mon Oct 06 16:54:30 2014 Page 2
ID:WXB4QlyhvkRdarV00i9R7xzgYY_-Jlvk9wUNGXRfRFIZthUQNV?rpJSelfecHJU6aVyW45d

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-6=-189, 6-11=-64, 2-15=-59, 10-15=-20

Concentrated Loads (lb) Vert: 15=-872(F)

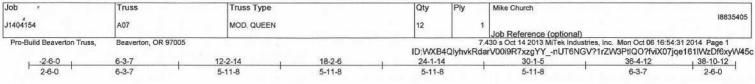
> City of Portland REVIEWED FOR CODE COMPLIANCE

OCT 20 2014

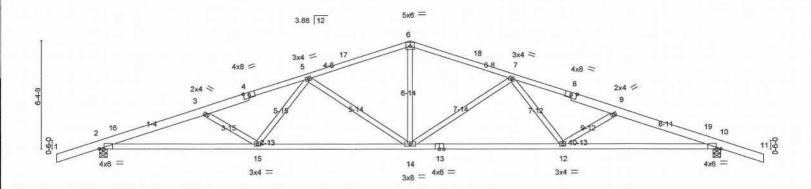
Permit Number

WARNING - Please thoroughly review the "Customer's Acknowledgement of ProBuild Standard Terms for Manufactured Products" form. Verify design parameters and read notes on this Truss Design Drawing (TDD) and the DrI Reference Sheet (rev. 10-14) before use. Unless otherwise stated on the TDD, only MITek connector plates shall be used for this TDD to be valid. As a Truss Design Engineer (i.e., Specialty Engineer), the seal on any TDD represents an acceptance of the professional engineering responsibility for the design of the single Truss depicted on the TDD only, under TPI 1. The design assumptions, loading conditions, suitability and use of this Truss for any Building is the responsibility of the Owner, the Owner's authorized agent or the Building Designer, in the context of the RIC, the IBC, th





Scale = 1:67.8



	D:	9-3-3	= 30	18	3-2-6		27-1-9			36-4-12	(
		9-3-3	330	8-	11-3	1	8-11-3		1.	9-3-3	
Plate Off	sets (X,Y): [2	0-3-2,Edge], [10:0-3-2,E	Edge]								
LOADING	G (psf)	SPACING	2-0-0	CSI		DEFL	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL	25.0	Plates Increase	1.15	TC	0.42	Vert(LL)	-0.24 12-14	>999	240	MT20	220/195
CDL	7.0	Lumber Increase	1.15	BC	0.60	Vert(TL)	-0.68 12-14	>633	180	197700000000	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.78	Horz(TL)	0.20 10	n/a	n/a		
BCDL	10.0	Code IRC2009/TF	P12007	(Matr	ix)					Weight: 179 II	FT = 10%

BRACING

TOP CHORD

BOT CHORD

LUMBER

TOP CHORD 2x4 DF No.1&Btr G *Except*

1-4,8-11: 2x6 DF No.2 BOT CHORD 2x4 DF No.1&Btr G

WEBS 2x4 DF Std G

.....

REACTIONS (lb/size) 2=1684/0-5-8 (min. 0-1-13), 10=1684/0-5-8 (min. 0-1-13)

Max Horz 2=-101(LC 6)

Max Uplift2=-681(LC 8), 10=-681(LC 8)

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

TOP CHORD 2-16=-3689/1219, 3-16=-3620/1234, 3-4=-3353/1094, 4-5=-3252/1104, 5-17=-2398/864,

 $6\textbf{-}17\textbf{=-}2328/872, \, 6\textbf{-}18\textbf{=-}2328/872, \, 7\textbf{-}18\textbf{=-}2398/864, \, 7\textbf{-}8\textbf{=-}3252/1104, \, 8\textbf{-}9\textbf{=-}3353/1094, \, 3\textbf{-}18\textbf{--}2328/872, \, 7\textbf{-}18\textbf{--}2398/864, \, 7\textbf{-}8\textbf{--}3252/1104, \, 8\textbf{-}9\textbf{--}3353/1094, \, 3\textbf{--}3252/1104, \, 8\textbf{--}3252/1104, \, 8\textbf{-$

9-19=-3620/1234, 10-19=-3689/1219

BOT CHORD 2-15=-1044/3411, 14-15=-834/2887, 13-14=-834/2887, 12-13=-834/2887,

10-12=-1044/3411

WEBS 3-15=-351/238, 5-15=-15/490, 5-14=-839/387, 6-14=-341/1121, 7-14=-839/387,

7-12=-15/490, 9-12=-351/238

NOTES

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

2) Wind: ASCE 7-05; 115mph; TCDL=4.2psf; BCDL=6.0psf, h=25ft; B=0ft; L=36ft; eave=5ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) -2-6-0 to 1-1-11, Interior(1) 1-1-11 to 14-6-11, Exterior(2) 14-6-11 to 18-2-6, Interior(1) 21-10-1 to 35-3-1 zone; cantilever 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.

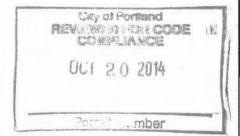
5) A plate rating reduction of 20% has been applied for the green lumber members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=681, 10=681.

7) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

8) "Fix heels only" Member end fixity model was used in the analysis and design of this truss.

LOAD CASE(S) Standard



Structural wood sheathing directly applied or 3-5-15 oc purlins.

Rigid ceiling directly applied or 6-6-6 oc bracing.

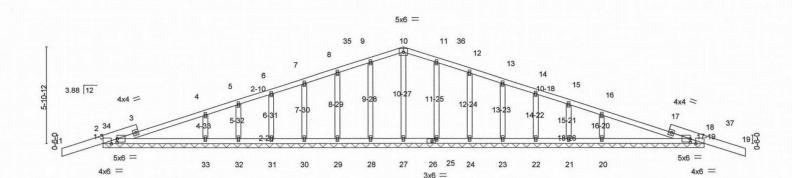


RENEWAL DATE 12/31/2015 October 7,2014

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Job Truss Truss Type Qty Ply Mike Church 18835406 J1404154 A08 GABLE Job Reference (optional) 7.430 s Oct 14 2013 MiTek Industries, Inc. Mon Oct 06 16:54:32 2014 Page 1 Pro-Ruild Reaverton Truss Reaverton OR 97005 ID:WXB4QlyhvkRdarV00i9R7xzgYY_-Fg1VacWdo8hNgZSy_6WuSw4D16H?mkyvkdzDeNyW45b 38-10-12 -2-6-0 18-2-6 2-6-0 2-6-0 Scale = 1:70.0



36-4-12 36-4-12 Plate Offsets (X,Y): [2:0-4-4,Edge], [2:0-0-4,0-2-9], [18:0-4-4,Edge], [18:0-0-4,0-2-9], [26:0-2-6,0-1-8] LOADING (psf) SPACING 2-0-0 CSI DEFL I/defl L/d **PLATES** GRIP in TCLL 25.0 Plates Increase 1.15 TC 0.22 Vert(LL) 0.02 19 180 MT20 220/195 n/r TCDL 7.0 BC 0.15 Vert(TL) 0.05 19 180 Lumber Increase 1.15 n/r BCLL 0.0 * Rep Stress Incr YES WB 0.10 Horz(TL) 0.01 18 n/a n/a BCDL 10.0 Code IRC2009/TPI2007 (Matrix) Wind(LL) 0.01 19 n/r 90 Weight: 179 lb FT = 10%

> **BRACING** TOP CHORD

BOT CHORD

LUMBER

TOP CHORD 2x6 DF No.2 *Except*

2-10,10-18: 2x4 DF No.1&Btr G

BOT CHORD 2x4 DF No.1&Btr G

OTHERS 2x4 DF Std G

All bearings 36-4-12. REACTIONS

(lb) - Max Horz 2=-86(LC 6)

Max Uplift All uplift 100 lb or less at joint(s) 28, 29, 30, 31, 32, 25, 24, 23, 22, 21 except 18=-250(LC 8),

2=-250(LC 8), 33=-133(LC 8), 20=-133(LC 8)

Max Grav All reactions 250 lb or less at joint(s) 27, 28, 29, 30, 31, 32, 25, 24, 23, 22, 21 except 18=393(LC

13), 2=393(LC 12), 33=473(LC 12), 20=473(LC 13)

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

TOP CHORD

9-10=0/257, 10-11=0/257 4-33=-336/203, 16-20=-336/203

WEBS

NOTES

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

2) Wind: ASCE 7-05; 115mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=0ft; L=0ft; eave=2ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Corner(3) -2-6-0 to 0-6-0, Exterior(2) 0-6-0 to 15-2-6, Corner(3) 15-2-6 to 18-2-6, Exterior(2) 21-2-6 to 35-10-12 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry

Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. 4) All plates are 2x4 MT20 unless otherwise indicated.

5) Gable requires continuous bottom chord bearing.

6) Gable studs spaced at 2-0-0 oc.

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

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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 28, 29, 30, 31, 32, 25, 24, 23, 22, 21 except (jt=lb) 18=250, 2=250, 33=133, 20=133.

11) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

12) "Fix heels only" Member end fixity model was used in the analysis and design of this truss.

LOAD CASE(S) Standard

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

Structural wood sheathing directly applied or 10-0-0 oc purlins.

City of Portland REVIEWED FOR CODE COMPLIANCE

OCT 20 2014

Permit Number



RENEWAL DATE: 12/31/2015 October 7,2014

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Job Truss Truss Type Qty Mike Church 18835407 J1404154 A09 MONO TRUSS | Job Reference (optional)
| 7.430 s Oct 14 2013 MiTek Industries, Inc. Mon Oct 06 16:54:32 2014 Page 1
| ID:WXB4QlyhvkRdarV00i9R7xzgYY_-Fg1VacWdo8hNgZSy_6WuSw4AG6DTmemvkdzDeNyW45b Pro-Build Beaverton Truss, Beaverton, OR 97005 -2-6-0 6-0-13 18-0-14 12-2-11 2-6-0 6-0-13 6-1-14 Scale = 1:36.3 3x4 = 5 田 4x6 = 3x6 = 3.88 12 0-9-0 3x6 = 8 3x6 = 2x4 || 3x4 5-8-0 9-1-3 18-0-14 Plate Offsets (X,Y): [3:0-2-4,0-1-8], [4:0-3-0,Edge] **PLATES** GRIP LOADING (psf) SPACING 2-0-0 CSI DEFL in (loc) I/defl L/d >898 220/195 TCLL 25.0 1.15 TC 0.40 Vert(LL) -0.16 7-8 240 MT20 Plates Increase TCDL 7.0 0.44 -0.487-8 >298 180 Lumber Increase 1.15 BC Vert(TL) BCII 0.0 * Rep Stress Incr WR 0.49 0.01 YES Horz(TL) n/a n/a Code IRC2009/TPI2007 Weight: 94 lb FT = 10% BCDL 100 (Matrix) LUMBER BRACING TOP CHORD 2x4 DF No.1&Btr G *Except* TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 1-4: 2x6 DF No.2 end verticals BOT CHORD 2x4 DF No.1&Btr G **BOT CHORD** Rigid ceiling directly applied or 5-11-6 oc bracing. 2x4 DF Std G WEBS REACTIONS (lb/size) 7=289/Mechanical, 9=1377/0-5-8 (min. 0-1-8) Max Horz 9=342(LC 9) Max Uplift7=-114(LC 9), 9=-743(LC 8) City of Portland FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. REVIEWED FOR CODE COMPLIANCE 2-10=-1370/1117, 3-10=-1369/1237, 3-4=-681/156, 4-5=-673/282 TOP CHORD **BOT CHORD** 2-9=-1105/1387, 8-9=-1167/1108 WEBS 3-8=-689/1116, 5-8=-517/643, 3-9=-1318/797 OCT 20 2014 NOTES 1) Wind: ASCE 7-05; 115mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=0ft; L=0ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights)

1) Wind: ASCE 7-05; 115mph; TCDL=4.2psf; BCDL=6.0psf; h=25ff; B=0ft; L=0ft; eave=4ff; Cat. II; Exp B; enclosed; MWFRS (all heights and C-C Exterior(2) -2-6-0 to 0-6-0, Interior(1) 0-6-0 to 14-11-1, Exterior(2) 14-11-1 to 17-11-1 zone; cantilever 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.

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) A plate rating reduction of 20% has been applied for the green lumber members.

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) except (jt=lb) 7=114, 9=743.
- This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) "Fix heels only" Member end fixity model was used in the analysis and design of this truss.

LOAD CASE(S) Standard

SSTERED PROFESSION STENGINEER STORES OF STENGINEER STORES OF STORE

Permit Number

RENEWAL DATE: 12/31/2015 October 7,2014

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Job Truss Truss Type Qty Ply Mike Church 2 J1404154 A10 Monopitch Job Reference (optional)
7.430 s Oct 14 2013 MiTek Industries, Inc. Mon Oct 06 16:54:33 2014 Page 1 Pro-Build Beaverton Truss, Beaverton, OR 97005 ID:WXB4QlyhvkRdarV00i9R7xzgYY_-jsbtnyXFZSpElj18Yp17?7dNPWclV3g2zHimBpyW45a 12-0-0 6-0-0 6-0-0 Scale = 1:24.3 3.88 12 3x4 = 2-5 0-9-0 1-4 5 244 11 3x6 6-0-0 12-0-0 6-0-0 6-0-0 LOADING (psf) SPACING 2-0-0 CSI DEFL in (loc) I/defl L/d **PLATES** GRIP TCLL 25.0 Plates increase 1.15 TC 0.31 Vert(LL) 0.04 1-5 >999 240 MT20 220/195 TCDL -0.10 7.0 Lumber Increase 1.15 BC 0.24 Vert(TL) 4-5 >999 180 BCLL 0.0 Rep Stress Incr YES WB 0.58 0.02 n/a n/a Horz(TL) Code IRC2009/TPI2007 BCDL 10.0 Weight: 50 lb FT = 10% (Matrix) BRACING

TOP CHORD

BOT CHORD

end verticals

LUMBER

TOP CHORD 2x4 DF No.1&Btr G

BOT CHORD 2x4 DF No.1&Btr G

2x4 DF Std G WEBS

REACTIONS (lb/size) 1=488/0-5-8 (min. 0-1-8), 4=488/Mechanical

Max Horz 1=198(LC 8)

Max Uplift 1=-133(LC 8), 4=-202(LC 8)

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

TOP CHORD 1-6=-920/203, 2-6=-804/213 **BOT CHORD** 1-5=-343/813, 4-5=-343/813 WEBS 2-5=0/279, 2-4=-865/365

NOTES

- 1) Wind: ASCE 7-05; 115mph; TCDL=4.2psf; BCDL=6.0psf; h=25ff; B=0ff; L=0ff; eave=4ff; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) 0-2-12 to 3-2-12, Interior(1) 3-2-12 to 8-10-4, Exterior(2) 8-10-4 to 11-10-4 zone; cantilever 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
- * 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) A plate rating reduction of 20% has been applied for the green lumber members.
- 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) except (jt=lb) 1=133, 4=202
- 7) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) "Fix heels only" Member end fixity model was used in the analysis and design of this truss

LOAD CASE(S) Standard

City of Portland REVIEWED FOR CODE COMPLIANCE OCT 20 2014 Permit Number

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Structural wood sheathing directly applied or 6-0-0 oc purlins, except

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

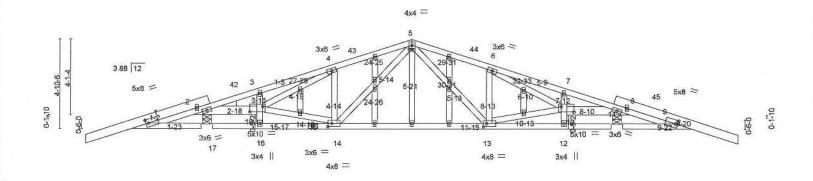
RENEWAL DATE 12/31/2015 October 7,2014

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Job Truss Truss Type Qty Mike Church 18835409 J1404154 B01 GABLE Job Reference (optional) 7.430 s Oct 14 2013 MiTek Industries, Inc. Mon Oct 06 16:54:34 2014 Page 1 Pro-Build Beaverton Truss Beaverton, OR 97005 ID:WXB4QlyhvkRdarV00i9R7xzgYY_-B39F?IYuKmx5wsbK6XYMXL9aDwt0EYnBCxSJjGyW45Z 1-11-4 8-10-14 13-0-12 17-2-10 21-4-8 26-1-8 28-0-12 30-6-12 4-9-0 4-1-14 4-1-14

Scale = 1:62.2



			4-9-0 2-11-0	8-10-14 4-1-14	1	17-2-10 8-3-12		21-4-8 4-1-14		26-1-8 24 ₁ 6-8 0-3-0 1-7-0	
Plate Off	fsets (X,Y): [1:	:0-1-8,0-2-8], [5:0-2-0,0-	0-4], [9:0-1-	8,0-2-8], [10:0	-8-4,0-3-8],	[13:0-1-15,0-2-0],	[14:0-2-7,0-2-	0]. [18:0-	8-4,0-3-8]		
LOADIN	G (psf)	SPACING	2-0-0	CSI		DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plates Increase	1.15	TC	0.18	Vert(LL)	-0.11 13-14	>999	240	MT20	220/195
TCDL	7.0	Lumber Increase	1.15	BC	0.54	Vert(TL)	-0.36 13-14	>773	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.46	Horz(TL)	0.05 8	n/a	n/a		
BCDL	10.0	Code IRC2009/TR	212007	(Matr	ix-M)					Weight: 196 lb	FT = 10%

BRACING

TOP CHORD

BOT CHORD

LUMBER

TOP CHORD 2x6 DF 2250F 1.7E *Except*

1-5,5-9: 2x4 DF No.1&Btr G BOT CHORD 2x4 DF No.1&Btr G *Except*

2-18,8-10: 2x6 DF No.2

WEBS 2x4 DF Std G

OTHERS 2x4 DF Std G

WEDGE

Left: 2x4 SYP No.3

REACTIONS (lb/size) 2=1158/0-5-8 (min. 0-1-8), 8=1158/0-5-8 (min. 0-1-8)

Max Horz 2=-60(LC 6)

Max Uplift2=-425(LC 8), 8=-425(LC 8)

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

TOP CHORD 2-42=-540/271, 2-3=-2015/415, 3-4=-1991/500, 4-43=-1474/525, 5-43=-1428/534,

5-44=-1428/534, 6-44=-1474/525, 6-7=-1991/500, 7-8=-2015/415, 8-45=-540/271 BOT CHORD 2-37=-255/422, 2-2=0/485, 2-18=-299/1869, 15-16=-132/362, 14-15=-132/362,

13-14=-228/1073, 12-13=-132/362, 8-10=-299/1869, 8-41=-255/422

5-13=-116/491, 6-13=-428/215, 10-13=-183/1037, 6-10=-37/576, 5-14=-116/491,

4-14=-428/215, 14-18=-183/1037, 4-18=-37/576

NOTES

WEBS

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

- 2) Wind: ASCE 7-05; 115mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=0ft; L=25ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) -0-7-3 to 2-4-13, Interior(1) 2-4-13 to 10-0-12, Exterior(2) 10-0-12 to 13-0-12, Interior(1) 16-0-12 to 23-8-11 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DQL=1.60 plate grip DQL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable studs spaced at 2-0-0 oc.
- 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) Solid blocking is required on both sides of the truss at joint(s), 2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=425, 8=425
- 11) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
- dontageneral payding representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied or 4-7-5 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing. Except:

10-0-0 oc bracing: 16-18, 10-12



RENEWAL DATE 12/31/2015 October 7,2014

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Job	Truss	Truss Type	Qty	Ply	Mike Church	×
J1404154	801	GABLE	1	1		18835409
				1	Job Reference (optional)	

Pro-Build Beaverton Truss,

Beaverton, OR 97005

7.430 s Oct 14 2013 MiTek Industries, Inc. Mon Oct 06 16:54:34 2014 Page 2 ID:WXB4QlyhvkRdarV00i9R7xzgYY_B39F?IYuKmx5wsbK6XYMXL9aDwt0EYnBCxSJjGyW45Z

NOTES

14) No notches allowed in overhang and 40504 from left end and 40504 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at 2-0-0 o.c. maximum between the stacking chords. For edge-wise notching, provide at least one tie plate between each notch.

LOAD CASE(S) Standard

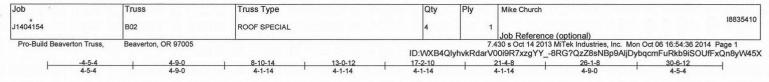
City of Portland REVIEWED FOR CODE COMPLIANCE

OCT 20 2014

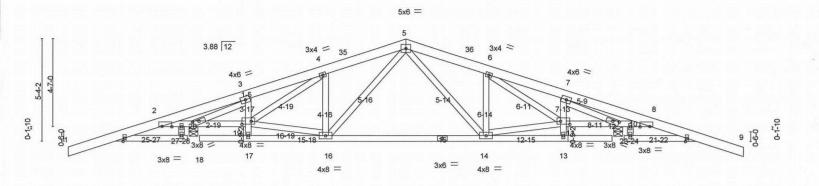
Permit Number

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Scale = 1:60.1



		1-10-0 1-7-0		0-14		17-2-10 8-3-12		21-4-8 4-1-14	24-3-		
Plate Of	fsets (X,Y): [[2:0-6-2,Edge], [8:0-6-2,Edg	ge], [10:0-4-	0,0-1-0], [11	:0-5-12,0-2-0)], [19:0-5-12,0-2-	0], [20:0-4-0,0	-1-0]			
LOADIN	IG (psf)	SPACING	2-0-0	CSI		DEFL	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL TCDL	25.0 7.0	Plates Increase Lumber Increase	1.15 1.15	TC BC	0.26 0.39	Vert(LL) Vert(TL)	-0.10 14-16 -0.32 14-16	>999 >833	240 180	MT20	220/195
BCLL BCDL	0.0 * 10.0	Rep Stress Incr Code IRC2009/TPI	Yes 2007	WB (Mati	0.45 rix-M)	Horz(TL) Wind(LL)	0.03 10 0.58 1-2	n/a >101	n/a 90	Weight: 194 lb	FT = 10%

BRACING

TOP CHORD

BOT CHORD

LUMBER

TOP CHORD 2x6 DF 2250F 1.7E

2x4 DF No.1&Btr G *Except* BOT CHORD 3-17,7-13: 2x4 DF Std G

WEBS 2x4 DF Std G

REACTIONS (lb/size) 20=1423/0-5-8 (min. 0-1-8), 10=1423/0-5-8 (min. 0-1-8)

Max Horz 20=82(LC 4)

Max Uplift20=-666(LC 8), 10=-666(LC 9)

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

TOP CHORD 2-3=-2515/1770, 3-4=-926/0, 4-35=-1053/242, 5-35=-1004/250, 5-36=-1004/250,

6-36=-1053/242, 6-7=-926/0, 7-8=-2515/1770 **BOT CHORD** 2-20=-1507/2296, 19-20=0/902, 3-19=-262/391, 15-16=0/790, 14-15=0/790,

7-11=-262/391, 10-11=0/902, 8-10=-1507/2296

WEBS 5-14=-13/308, 6-14=-251/83, 11-14=0/918, 6-11=-269/695, 5-16=-13/308, 4-16=-251/83,

16-19=0/918, 4-19=-269/695, 3-20=-2283/1421, 7-10=-2283/1421

NOTES

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

2) Wind: ASCE 7-05; 115mph; TCDL=4.2psf; BCDL=6.0psf; h=25ff; B=0ff; L=0ff; eave=4ff; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) -4-5-4 to -1-5-4. Interior(1) -1-5-4 to 10-0-12. Exterior(2) 10-0-12 to 13-0-12. Interior(1) 16-0-12 to 27-6-12 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) All plates are 2x4 MT20 unless otherwise indicated.

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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 20=666, 10=666
- 8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) "Fix heels only" Member end fixity model was used in the analysis and design of this truss.

LOAD CASE(S) Standard

City of Portland REVIEWED FOR CODE COMPLIANCE

Structural wood sheathing directly applied or 5-9-4 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing. Except:

10-0-0 oc bracing: 17-19, 11-13

OCT 20 2014

Permit Number



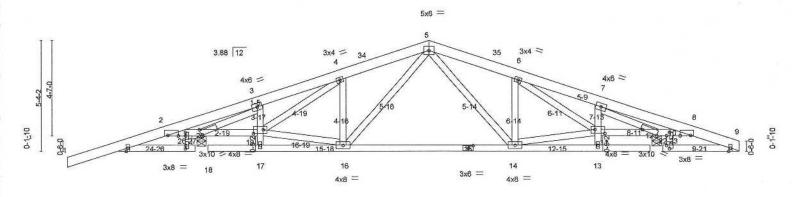
RENEWAL DATE: 12/31/2015 October 7,2014

WARNING - Please thoroughly review the "Customer's Acknowledgement of ProBuild Standard Terms for Manufactured Products" form. Verify design parameters and read notes on this Truss Design Drawing and the DrJ Reference Sheet (rev. 10-14) before use. Unless otherwise stated on the TDD, only MiTek connector plates shall be used for this TDD to be valid. As a Truss Design Engineer (i.e., Specialty Engineer) the seal on any TDD represents an acceptance of the professional engineering responsibility for the design of the single Truss depicted on the TDD only, under TPI 1. The design assumptions, loading conditions, subtility and use of this Truss for any bluiding is the responsibility of the Owner, the Owner dark subtinized agent or the Building Designer, in the context of the HRC, the IBC, the local building ode and TPI 1. The approval of the TDD and any field use of the Truss, including handling, installation and bracing, shall be the responsibility of the Building Designer and Contractor. All notes set out in the TDD and the for any building. All capitalized terms are as defined in TPI 1.



Qty Ply Job Truss Mike Church Truss Type 18835411 J1404154 B03 ROOF SPECIAL Job Reference (optional) 7.430 s Oct 14 2013 MiTek Industries, Inc. Mon Oct 06 16:54:37 2014 Page 1 Pro-Build Beaverton Truss Beaverton, OR 97005 ID:WXB4QlyhvkRdarV00i9R7xzgYY_-ceqOdJamdhJgnKKvnf639zn3A7wlRvHeuvg_KbyW45W 8-10-14 26-1-8 4-9-0

Scale = 1:55.8



			9-0 1-0	8-10-14 4-1-14	-1	17-2-10 8-3-12		-1	21-4-8 4-1-14	24-3-8 24 ₁ 6 ₁ 8 2-11-0 0-3-0	1-7-0	
Plate Off	fsets (X,Y):	[2:0-6-2,Edge], [8:0-6-2,Edge], [26:0-2-0,0-0-4], [27:0-2-0		0:Edge,0-0-4], [11:	0-5-12,0-2-	4], [15:0-2-12,0-1-	8], [19:0-5-12,	0-2-4], [2	0:Edge,0-3-	13], [22:0-2-0,0-1-13],	[23:0-2-0,0-1-13],	
LOADING	G (psf)	SPACING	2-0-0	CSI		DEFL	in (loc)	I/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plates Increase	1.15	TC	0.26	Vert(LL)	-0.10 14-16	>999	240	MT20	220/195	
TCDL	7.0	Lumber Increase	1.15	BC	0.43	Vert(TL)	-0.32 14-16	>829	180			
BCLL	0.0 *	Rep Stress Incr	Yes	WB	0.47	Horz(TL)	0.04 10	n/a	n/a			74
BCDL	10.0	Code IRC2009/TF	212007	(Matri	x-M)	Wind(LL)	0.57 1-2	>102	90	Weight: 188 lb	FT = 10%	

BRACING

TOP CHORD

BOT CHORD

LUMBER

TOP CHORD 2x6 DF 2250F 1.7E

BOT CHORD 2x4 DF No.1&Btr G *Except*

3-17,7-13: 2x4 DF Std G

WEBS 2x4 DF Std G

REACTIONS (lb/size) 20=1457/0-5-8 (min. 0-1-9), 10=1229/0-5-8 (min. 0-1-8)

Max Horz 20=98(LC 4)

Max Uplift20=-701(LC 8), 10=-483(LC 9)

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

TOP CHORD 2-3=-2502/1768, 3-4=-940/0, 4-34=-1122/298, 5-34=-1073/307, 5-35=-1151/385,

6-35=-1200/377, 6-7=-1240/224, 7-8=-746/462

BOT CHORD 2-20=-1506/2282, 19-20=0/916, 3-19=-284/407, 15-16=-68/866, 14-15=-68/866, 10-11=-62/1196, 8-10=-356/793

WEBS 5-14=-110/409, 6-14=-351/187, 11-14=-135/1032, 5-16=0/304, 4-16=-251/86,

16-19=-83/980, 4-19=-277/691, 3-20=-2339/1495, 7-10=-1731/694

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

2) Wind: ASCE 7-05; 115mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=0ft; L=0ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) -4-5-4 to -1-5-4, Interior(1) -1-5-4 to 10-0-12, Exterior(2) 10-0-12 to 13-0-12, Interior(1) 16-0-12 to 24-10-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) All plates are 2x4 MT20 unless otherwise indicated.

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.

A plate rating reduction of 20% has been applied for the green lumber members.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 20=701, 10=483

8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

9) "Fix heels only" Member end fixity model was used in the analysis and design of this truss.

LOAD CASE(S) Standard



Structural wood sheathing directly applied or 5-9-7 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing. Except:

10-0-0 oc bracing: 17-19, 11-13



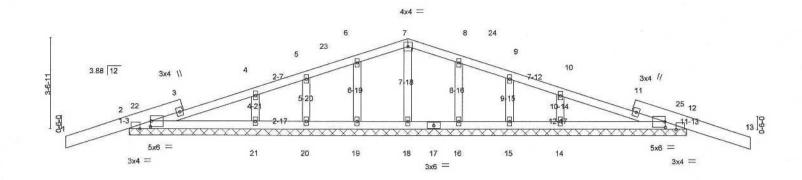
RENEWAL DATE 12/31/2015 October 7,2014

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Job Truss Truss Type Qty Mike Church 18835412 J1404154 C01 GABLE Job Reference (optional)
7.430 s Oct 14 2013 MiTek Industries, Inc. Mon Oct 06 16:54:38 2014 Page 1 Pro-Build Beaverton Truss Beaverton, OR 97005 ID:WXB4QlyhvkRdarV00i9R7xzgYY_-4qOmrfbOO_RXOUv6LMdlhBKG4XLLAT_n7ZQXs1yW45V 21-11-0 24-5-0 -2-6-0 10-11-8 2-6-0 10-11-8 10-11-8 2-6-0

Scale = 1:45.5



21-11-0 21-11-0 Plate Offsets (X,Y): [2:0-5-4,Edge], [2:0-0-4,0-2-9], [12:0-0-4,0-2-9], [12:0-5-4,Edge] LOADING (psf) SPACING 2-0-0 CSI DEFL in (loc) I/defl L/d PLATES GRIP TCLL 25.0 Plates Increase TC 1.15 0.18 Vert(LL) -0.01 13 n/r 180 MT20 220/195 TCDL 7.0 Lumber Increase 1.15 BC 0.09 Vert(TL) 0.00 12-13 n/r 180 BCLL 0.0 Rep Stress Incr YES WB 0.06 0.00 Horz(TL) 12 n/a n/a BCDL 10.0 Code IRC2009/TPI2007 FT = 10% (Matrix) Wind(LL) 0.00 13 n/r 90 Weight: 98 lb

BRACING

TOP CHORD

BOT CHORD

LUMBER

TOP CHORD 2x6 DF No.2 *Except*

2-7,7-12: 2x4 DF No.1&Btr G

2x4 DF No.1&Btr G BOT CHORD

OTHERS 2x4 DF Std G

REACTIONS All bearings 21-11-0.

(lb) - Max Horz 2=-54(LC 6)

Max Uplift All uplift 100 lb or less at joint(s) 19, 20, 21, 16, 15, 14 except 12=-260(LC 8), 2=-260(LC 8) Max Grav All reactions 250 lb or less at joint(s) 18, 19, 20, 16, 15 except 12=373(LC 13), 2=373(LC 12), 21=332(LC 12), 14=332(LC 13)

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

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

2) Wind: ASCE 7-05; 115mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=0ft; L=0ft; eave=2ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Corner(3) -2-6-0 to 0-6-0, Exterior(2) 0-6-0 to 7-11-8, Corner(3) 7-11-8 to 10-11-8, Exterior(2) 13-11-8 to 21-5-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DQL=1.60

3) Truss designed for wind loads in the plane of the truss only. For stude exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

4) All plates are 2x4 MT20 unless otherwise indicated.

5) Gable requires continuous bottom chord bearing.

6) Gable studs spaced at 2-0-0 oc.

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

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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 20, 21, 16, 15, 14 except (jt=lb) 12=260, 2=260.

This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

12) "Fix heels only" Member end fixity model was used in the analysis and design of this truss.

LOAD CASE(S) Standard

STERED PROFESS ENGINEE OREG OSEPH

City of Portland

REVIEWED FOR CODE COMPLIANCE

OCT 20 2014

Permit Number

Structural wood sheathing directly applied or 10-0-0 oc purlins.

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

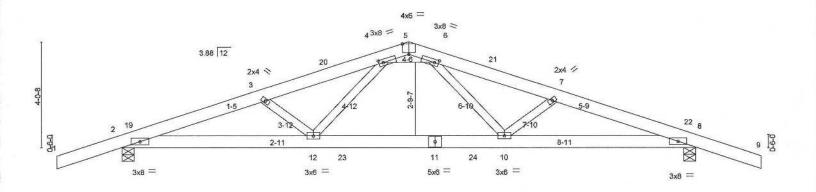
RENEWAL DATE 12/31/2015 October 7,2014

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Job Truss Truss Type Qty Mike Church 18835413 J1404154 C02 COMMON Job Reference (optional) 7.430 s Oct 14 2013 MiTek Industries, Inc. Mon Oct 06 16:54:38 2014 Page Pro-Build Beaverton Truss Beaverton, OR 97005 ID:WXB4QlyhvkRdarV00i9R7xzgYY_-4qOmrfbOO_RXOUv6LMdlhBKE7XCBAMxn7ZQXs1yW45V 5-5-12 10-11-8 16-5-4 21-11-0 24-5-0 -2-6-0 5-5-12 5-5-12 2-6-0 2-6-0 5-5-12

Scale = 1:44.1



	-	7-3-11 7-3-11		- L		14-7-5 7-3-11				1-11-0 7-3-11	-1	
Plate Of	ffsets (X,Y): [4	:0-2-0,0-1-8], [5:0-3-0,Ed	STATES TO STATE OF THE PARTY OF	0-1-8]								
LOADIN	IG (psf)	SPACING	2-0-0	CSI		DEFL	in (loc)	I/defi	L/d	PLATES	GRIP	
TCLL	25.0	Plates Increase	1.15	TC	0.31	Vert(LL)	-0.13 10-12	>999	240	MT20	220/195	
TCDL	7.0	Lumber Increase	1.15	BC	0.67	Vert(TL)	-0.40 10-12	>650	180	VICTORIAN DEPART		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.45	Horz(TL)	0.08 8	n/a	n/a			
BCDL	10.0	Code IRC2009/TP	12007	(Matr	rix-M)	I I I I I I I I I I I I I I I I I I I				Weight: 128 lb	FT = 10%	

BRACING

TOP CHORD

BOT CHORD

LUMBER

TOP CHORD 2x6 DF No.2 BOT CHORD 2x6 DF No.2

WEBS 2x4 DF Std G

REACTIONS (lb/size) 8=1572/0-5-8 (min. 0-1-11), 2=1572/0-5-8 (min. 0-1-11)

Max Horz 2=59(LC 7)

Max Uplift8=-499(LC 8), 2=-499(LC 8)

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

TOP CHORD 2-19=-2174/278, 2-3=-3544/770, 3-20=-3347/669, 4-20=-3303/675, 6-21=-3303/675,

7-21=-3347/669, 7-8=-3544/770, 8-22=-2174/278

BOT CHORD 2-12=-616/3317, 12-23=-429/2567, 11-23=-429/2567, 11-24=-429/2567, 10-24=-429/2567

8-10=-616/3317

WEBS 6-10=-79/1015, 7-10=-287/200, 4-12=-79/1015, 3-12=-287/200, 4-6=-2433/651

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

2) Wind: ASCE 7-05; 115mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=0ft; L=0ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) -2-6-0 to 0-6-0, Interior(1) 0-6-0 to 7-11-8, Exterior(2) 7-11-8 to 10-11-8, Interior(1) 13-11-8 to 21-5-0 zone; cantilever left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) 200.0lb AC unit load placed on the bottom chord, 10-11-8 from left end, supported at two points, 5-0-0 apart.

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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=499, 2=499.

8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

9) "Fix heels only" Member end fixity model was used in the analysis and design of this truss.

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 300 lb down and 126 lb up at 14-7-5, and 300 lb down and 126 lb up at 7-3-11 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

11) 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-64, 5-9=-64, 12-16=-20, 10-12=-45(F=-25), 10-13=-20



Structural wood sheathing directly applied or 4-0-10 oc purlins.



RENEWAL DATE 12/31/2015 October 7,2014

Continued on page 2

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Job Truss Qty Truss Type Mike Church C02 COMMON J1404154 1 Job Reference (optional)
7.430 s Oct 14 2013 MiTek Industries, Inc. Mon Oct 06 16:54:38 2014 Page 2

Pro-Build Beaverton Truss,

Beaverton, OR 97005

ID:WXB4QlyhvkRdarV00i9R7xzgYY_-4qOmrfbOO_RXOUv6LMdlhBKE7XCBAMxn7ZQXs1yW45V

LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: 10=-300(F) 12=-300(F) 23=-100 24=-100

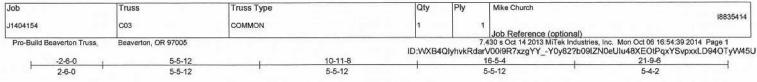
City of Portland REVIEWED FOR CODE COMPLIANCE

OCT 20 2014

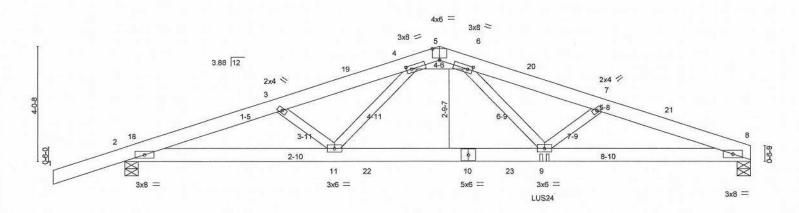
Permit Number

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		7-3- 7-3-			1	14-7 7-3-1				1	21-9-6 7-2-1		-1
Plate Of	fsets (X,Y): [4	:0-2-0,0-1-8], [5:0-3-0,Edge		1-8]		1.5					7-2-1		
LOADIN	G (psf)	SPACING 2	-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plates Increase	1.15	TC	0.31	Vert(LL)	-0.13	9-11	>999	240	MT20	220/195	
TCDL	7.0	Lumber Increase	1.15	BC	0.67	Vert(TL)	-0.40	9-11	>650	180			
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.46	Horz(TL)	0.08	8	n/a	n/a	19 900000 10 91 CO A DAMAGA CARANTA		
BCDL	10.0	Code IRC2009/TPI2	007	(Matr	ix-M)						Weight: 122 lb	FT = 10%	

BRACING

TOP CHORD

BOT CHORD

LUMBER

TOP CHORD 2x6 DF No.2 BOT CHORD 2x6 DF No.2

2x4 DF Std G

REACTIONS (lb/size) 8=1395/0-5-8 (min. 0-1-8), 2=1578/0-5-8 (min. 0-1-11)

Max Horz 2=70(LC 4) Max Uplift8=339(LC 8), 2=-506(LC 8)

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

TOP CHORD 2-18=-2182/296, 2-3=-3560/786, 3-19=-3365/701, 4-19=-3320/707, 6-20=-3348/761,

7-20=-3393/757, 7-21=-3548/853, 8-21=-3602/847

BOT CHORD 2-11=-689/3332, 11-22=-529/2587, 10-22=-529/2587, 10-23=-529/2587, 9-23=-529/2587,

8-9=-754/3377

WEBS 6-9=-128/1051, 7-9=-312/230, 4-11=-73/1014, 3-11=-286/197, 4-6=-2444/673

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

2) Wind: ASCE 7-05; 115mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=0ft; L=0ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights) Permit Number and CrC Extend (2) 2.6.0 to 0.6.0 to and C-C Exterior(2) -2-6-0 to 0-6-0, Interior(1) 0-6-0 to 7-11-8, Exterior(2) 7-11-8 to 10-11-8, Interior(1) 13-11-8 to 18-9-6 zone cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) 200.0lb AC unit load placed on the bottom chord, 10-11-8 from left end, supported at two points, 5-0-0 apart. 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=339, 2=506.
- 8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced

9) "Fix heels only" Member end fixity model was used in the analysis and design of this truss.

10) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent at 14-7-5 from the left end to connect truss(es) (1 ply 2x4 HF) to front face of bottom chord.

11) Fill all nail holes where hanger is in contact with lumber.

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 300 lb down and 126 lb up at 7-3-11 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

13) 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

STERED PROFESO ENGINEE YOSEPH

Structural wood sheathing directly applied or 4-0-6 oc purlins.

City of Portland REVIEWED FOR CODE

OCT 20 2014

Rigid ceiling directly applied or 9-0-2 oc bracing.

RENEWAL DATE 12/31/2015 October 7,2014

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	Mike Church	V 5-12010AC
J1404154	C03	COMMON	1		1 Job Reference (optional)	18835414

Pro-Build Beaverton Truss,

Beaverton, OR 97005

7.430 s Oct 14 2013 MTest Industries, Inc. Mon Oct 06 16:54:39 2014 Page 2
ID:WXB4QlyhvkRdarV00i9R7xzgYY_-Y0y82?b09IZN0eUlu48XEOtPqxYSvpxxLD94OTyW45U

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-5=-64, 5-8=-64, 11-15=-20, 9-11=-45(F=-25), 9-12=-20 Concentrated Loads (lb) Vert: 9=-300(F) 11=-300(F) 22=-100 23=-100

> City of Portland REVIEWED FOR CODE COMPLIANCE

> > OCT 20 2014

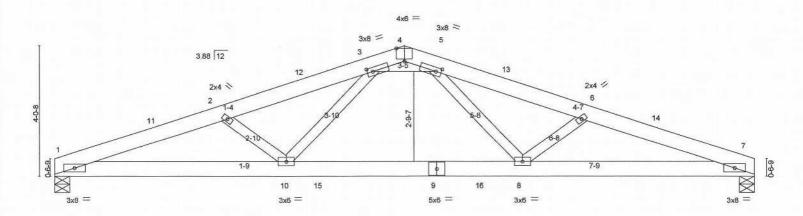
Permit Number

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Dr J

Qty Mike Church Job Truss Type Ply 18835415 J1404154 C04 COMMON Job Reference (optional)
7.430 s Oct 14 2013 MiTek Industries, Inc. Mon Oct 06 16:54:40 2014 Page 1
ID:WXB4QlyhvkRdarV00i9R7xzgYY_-0DWWFLcewciEen3USnfmncPaoLu8eG_4atvewvyW45T Beaverton, OR 97005 Pro-Build Beaverton Truss 10-9-14 16-3-10 21-7-12 5-4-2 5-5-12 5-5-12 5-4-2

Scale = 1:35.7



1	7-2-1			14-5-11				21-7-12					
		7-2-1				7-3-11			55		7-2-1		- As
Plate Of	ffsets (X,Y): [3	:0-2-0,0-1-8], [4:0-3-0,Ed	dge], [5:0-2-0	,0-1-8]							Y		
LOADIN	IG (psf)	SPACING	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plates Increase	1.15	TC	0.30	Vert(LL)	-0.13	8-10	>999	240	MT20	220/195	
TCDL	7.0	Lumber Increase	1.15	BC	0.64	Vert(TL)	-0.39	8-10	>650	180			
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.48	Horz(TL)	0.08	7	n/a	n/a	ARRESTONEO - INVESTIGACIONE		
BCDL	10.0	Code IRC2009/TF	P12007	(Matr	ix)						Weight: 115 lb	FT = 10%	

BRACING

TOP CHORD

BOT CHORD

LUMBER

TOP CHORD 2x6 DF No.2

BOT CHORD 2x6 DF No.2

WEBS 2x4 DF Std G

REACTIONS (lb/size) 1=1382/0-5-8 (min. 0-1-8), 7=1380/0-5-8 (min. 0-1-8)

Max Horz 1=-49(LC 6)

Max Uplift 1=-338(LC 8), 7=-340(LC 8)

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

TOP CHORD 1-11=-3578/867, 2-11=-3514/874, 2-12=-3355/780, 3-12=-3311/785, 5-13=-3305/791,

6-13=-3349/786, 6-14=-3507/880, 7-14=-3571/873

BOT CHORD 1-10=-771/3318, 10-15=-544/2507, 9-15=-544/2507, 9-16=-544/2507, 8-16=-544/2507,

7-8=-777/3312

WEBS 5-8=-133/1070, 6-8=-281/232, 3-10=-124/1078, 2-10=-283/231, 3-5=-2381/712

City of Portland REVIEWED FOR CODE COMPLIANCE

Structural wood sheathing directly applied or 3-11-12 oc purlins.

Rigid ceiling directly applied or 8-10-8 oc bracing.

OCI 20 2014

Permit Number

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

- 2) Wind: ASCE 7-05; 115mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=0ft; L=0ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) 0-4-6 to 3-4-6, Interior(1) 3-4-6 to 7-11-8, Exterior(2) 7-11-8 to 10-11-8, Interior(1) 13-11-8 to 18-6-10 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 200.0lb AC unit load placed on the bottom chord, 10-9-14 from left end, supported at two points, 5-0-0 apart. 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=338, 7=340.
- 8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) "Fix heels only" Member end fixity model was used in the analysis and design of this truss.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 300 lb down and 126 lb up at 7-3-11, and 300 lb down and 126 lb up at 14-7-5 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) 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: 1-4=-64, 4-7=-64, 1-10=-20, 8-10=-45(F=-25), 7-8=-20



RENEWAL DATE 12/31/2015 October 7,2014

Continued on page 2

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Job Truss Truss Type Qty Ply Mike Church 18835415 J1404154 C04 COMMON Job Reference (optional) 7.430 s Oct 14 2013 MiTek Industries, Inc. Mon Oct 06 16:54:40 2014 Page 2

Pro-Build Beaverton Truss,

Beaverton, OR 97005

ID:WXB4QlyhvkRdarV00i9R7xzgYY_-0DWWFLcewciEen3USnfmncPaoLu8eG_4atvewvyW45T

LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: 8=-300(F) 10=-300(F) 15=-100 16=-100

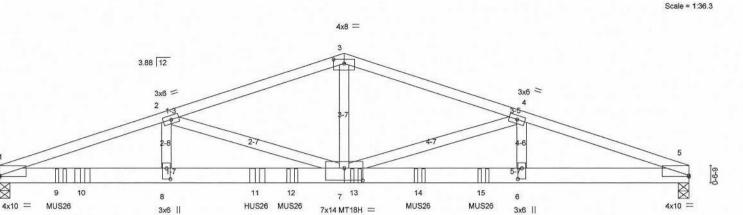


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Qty Ply Mike Church Job Truss Truss Type 18835416 COMMON GIRDER .11404154 C05 Job Reference (optional)

7.430 s Oct 14 2013 MiTek Industries, Inc. Mon Oct 06 16:54:40 2014 Page 1 Pro-Build Beaverton Truss Beaverton OR 97005 ID:WXB4QlyhvkRdarV00i9R7xzgYY_-0DWWFLcewciEen3USnfmncPV_Lsre9j4atvewvyW45T 10-9-14 16-4-14 21-7-12 5-2-14 5-7-0 5-7-0 5-2-14



-		5-2-14 5-2-14		10-9-14 5-7-0				16-4-14 5-7-0			21-7-12 5-2-14		1
Plate Of		:0-0-0,0-0-7], [3:0-4-0,0-	1-8], [5:0-0-0,		4-0,0-1-8], [7	7:0-7-0,0-4-8], [8:0)-4-0,0-	1-8]					
LOADIN	IG (psf)	SPACING	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plates Increase	1.15	TC	0.61	Vert(LL)	-0.21	7-8	>999	240	MT20	220/195	
TCDL	7.0	Lumber Increase	1.15	BC	0.79	Vert(TL)	-0.48	7-8	>530	180	MT18H	220/195	
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.94	Horz(TL)	0.11	5	n/a	n/a			
BCDL	10.0	Code IRC2009/TR	PI2007	(Matr	rix)						Weight: 305 lb	FT = 10%	

BRACING

TOP CHORD

BOT CHORD

MUS26

LUMBER

TOP CHORD 2x4 DF No.1&Btr G 2x6 DF 2250F 1.7E **BOT CHORD**

2x4 DF Std G

REACTIONS (lb/size) 1=6928/0-3-14 (min. 0-2-7), 5=4598/0-3-14 (min. 0-1-10)

Max Horz 1=50(LC 6)

HUS26

Max Uplift 1=-1917(LC 7), 5=-1478(LC 7)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown TOP CHORD 1-2=-15235/4254, 2-3=-11013/3404, 3-4=-10998/3403, 4-5=-12885/4175

BOT CHORD 1-9=-3954/14299, 9-10=-3954/14299, 8-10=-3954/14299, 8-11=-3954/14299,

11-12=-3954/14299, 7-12=-3954/14299, 7-13=-3868/12044, 13-14=-3868/12044,

14-15=-3868/12044, 6-15=-3868/12044, 5-6=-3868/12044

WEBS 3-7=-1892/6392, 4-7=-1749/817, 4-6=-428/1259, 2-7=-4125/907, 2-8=-446/2701

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 0-7-0 oc.

Bottom chords connected as follows: 2x6 - 3 rows staggered at 0-4-0 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 7-05; 115mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=0ft; L=0ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

All plates are MT20 plates unless otherwise indicated.

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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 1=1917, 5=1478

10) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

11) "Fix heels only" Member end fixity model was used in the analysis and design of this truss.

12) Use Simpson Strong-Tie MUS26 (6-10d Girder, 4-10d Truss) or equivalent spaced at 7-3-4 oc max. starting at 1-11-2 from the left end to 15-2-6 to connect truss(es) A02 (1 ply 2x4 DF) to back face of bottom chord.

13) Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent spaced at 5-5-14 oc max. starting at 2-7-4 from the left end to 8-1-2 to connect truss(es) A02A (1 ply 2x6 DF) to back face of bottom chord.

Fill all nail holes where hanger is in contact with lumber.

Continued on page 2



Structural wood sheathing directly applied or 5-8-9 oc purlins.

City of Portland

REVIEWED FOR CODE COMPLIANCE

OCT 2.0 2014

Permit Number

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

RENEWAL DATE 12/31/2015 October 7,2014

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Job	Truss	Truss Type	Qty	Ply	Mike Church	
J1404154	C05	COMMON GIRDER	1			18835416
				3	Job Reference (optional)	

Pro-Build Beaverton Truss.

Beaverton, OR 97005

7,430 s Oct 14 2013 MiTek Industries, Inc. Mon Oct 06 16:54:40 2014 Page 2 ID:WXB4QlyhvkRdarV00i9R7xzgYY_-0DWWFLcewciEen3USnfmncPV_Lsre9j4atvewvyW45T

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-64, 3-5=-64, 1-5=-20

Concentrated Loads (lb)

Vert: 9=-1187(B) 10=-1901(B) 11=-1901(B) 12=-1187(B) 13=-1187(B) 14=-1187(B) 15=-1187(B)



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Truss Type Qty Ply Mike Church Job Truss 1883541# FG01 FLAT GIRDER J1404154 Job Reference (optional) 30 s Oct 14 2013 MiTek Industries, Inc. Mon Oct 06 16:54:41 2014 Page Pro-Build Beaverton Truss. Beaverton, OR 97005 ID:WXB4QlyhvkRdarV00i9R7xzgYY_-UP4uThdHgvq5Fxeg0VA?JpyoulMxNoGDpXeBTMyW45S 4-11-6 9-10-13 4-11-6 4-11-7 Scale = 1:38.7 2 M X X X TI 1-3 2x4 ПП ПП 4-6 nn ΠD 9 10 8 6 LUS24 LUS24 LUS24 3x8 = 2x4 || II 2x4 LUS24 LUS24 9-10-13 4-11-6 1-0-0 LOADING (psf) SPACING CSI DEFL I/defl L/d **PLATES** GRIP (loc) TCLL 25.0 TC 0.08 Vert(LL) -0.01 4-5 >999 240 MT20 220/195 Plates Increase 1.15 TCDL 7.0 BC 0.16 Vert(TL) -0.03 4-5 >999 180 Lumber Increase 1.15 BCLL 0.0 * Rep Stress Incr NO WB 0.15 Horz(TL) 0.00 n/a n/a BCDL 10.0 Code IRC2009/TPI2007 (Matrix) Weight: 155 lb FT = 10% LUMBER BRACING TOP CHORD 2x4 DF No.1&Btr G TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-3, except end verticals. BOT CHORD 2x6 DF No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

WEBS 2x4 DF Std G

REACTIONS (Ib/size) 6=929/Mechanical, 4=892/Mechanical Max Uplift6=-370(LC 3), 4=-355(LC 3)

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

TOP CHORD 1-6=-605/255, 1-2=-439/175, 2-3=-439/175, 3-4=-605/255

WEBS 1-5=-278/701, 3-5=-278/701

NOTES

1) 2-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 - 2 rows staggered at 0-9-0 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) Wind: ASCE 7-05; 115mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=0ft; L=0ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

4) Provide adequate drainage to prevent water ponding.

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

6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

7) A plate rating reduction of 20% has been applied for the green lumber members.

8) 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) 6=370, 4=355.
- 10) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

11) "Fix heels only" Member end fixity model was used in the analysis and design of this truss.

- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 0-9-8 from the left end to 8-9-8 to connect truss(es) A09 (1 ply 2x4 DF) to front face of bottom chord.

Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

 Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (off)

Vert: 1-3=-32, 4-6=-10

City of Portland REVIEWED FOR CODE COMPLIANCE

OCT 20 2014

SIGNED PROFESSION STATE OF THE PROFESSION OF THE

RENEWAL DATE 12/31/2015 October 7,2014

Continued on page 2

WARNING - Please thoroughly review the "Customer's Acknowledgement of ProBuild Standard Terms for Manufactured Products" form. Verify design parameters and read notes on this Truss Design Drawing (TDD) and the DrJ Reference Sheet (rev. 10-14) before use Unless otherwise stated on the TDD, only MiTek connector plates shall be used for this TDD to be valid. As a Truss Design Engineer (i.e., Specialty Engineer), the seal on any TDD represents an acceptance of the professional engineering responsibility for the design of the single Truss deploted on the TDD only, under TP1. The design assumptions, loading conditions, suitability and use of this Truss for any Building is the responsibility of the Owner, the Owner's authorized agent or the Building Designer, in the context of the IRC, the IBC, the local building code and TP1. The approval of the TDD and any field use of the Truss, including handling, storage, installation and bracing, shall be the responsibility of the Building Designer and Contractor. All notes set out in the TDD and the practices and guidelines of Building Component Safety Information (BCSI) published by TP1 and SBCA are referenced for general guidance. TP1 1 defines the responsibilities and duties of the Truss Designer, Truss Design Engineer and Truss Manufacturer, unless otherwise defined by a Contract agreed upon in writing by all parties involved. The Truss Design Engineer is NOT the Building Designer or Truss System Engineer for any building. All capitalized terms are as defined in TP1 1.



Job Truss Truss Type Qty Ply Mike Church 18835417 J1404154 FG01 FLAT GIRDER Job Reference (optional) 7.430 s Oct 14 2013 MiTek Industries, Inc. Mon Oct 06 16:54:41 2014 Page 2

Pro-Build Beaverton Truss,

Beaverton, OR 97005

 $ID:WXB4QlyhvkRdarV00i9R7xzgYY_-UP4uThdHgvq5Fxeg0VA?JpyoulMxNoGDpXeBTMyW45S$

LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: 5=-284(F) 7=-284(F) 8=-284(F) 9=-284(F) 10=-284(F)



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Job Truss Truss Type Qty Mike Church 18835418 J1404154 EG02 FLAT GIRDER Job Reference (optional)
7 430 s Oct 14 2013 MiTek Industries, Inc. Mon Oct 06 16:54:41 2014 Page 1 Pro-Build Beaverton Truss Beaverton, OR 97005 ID:WXB4QlyhvkRdarV00i9R7xzgYY_-UP4uThdHgvq5Fxeg0VA?JpynGlB8NqgDpXeBTMyW45S 5-4-6 Scale = 1:26.7 3x4 = X 1-2 3-4 5 6 LUS24 LUS24 4x4 = 2x4 || 5-4-6

LOADING (psf) SPACING 1-0-0 CSI DEFL (loc) I/defl L/d **PLATES** GRIP 220/195 TCLL 25.0 Plates Increase TC 0.19 Vert(LL) 0.07 3-4 >856 240 MT20 1.15 TCDL 7.0 Lumber Increase 1.15 BC 0.85 Vert(TL) -0.163-4 >383 180 BCLL 00 Rep Stress Incr NO WB 0.00 Horz(TL) 0.00 3 n/a n/a BCDL 10.0 Code IRC2009/TPI2007 (Matrix) Weight: 37 lb FT = 10%

LUMBER

TOP CHORD 2x4 DF No.1&Btr G

BOT CHORD 2x6 DF No.2

2x4 DF Std G WEBS

BRACING TOP CHORD

2-0-0 oc purlins: 1-2, except end verticals.

BOT CHORD

Rigid ceiling directly applied or 8-9-15 oc bracing.

REACTIONS (lb/size) 4=541/Mechanical, 3=638/Mechanical Max Uplift 4=-220(LC 3), 3=-262(LC 3)

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

NOTES

- 1) Wind: ASCE 7-05; 115mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=0ft; L=0ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 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) A plate rating reduction of 20% has been applied for the green lumber members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 4=220, 3=262
- 8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) "Fix heels only" Member end fixity model was used in the analysis and design of this truss.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 1-11-4 from the left end to 3-11-4 to connect truss(es) A10 (1 ply 2x4 DF) to back face of bottom chord
- 12) Fill all nail holes where hanger is in contact with lumber.
- 13) 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-32, 3-4=-10

Concentrated Loads (lb)

Vert: 5=-483(B) 6=-483(B)

City of Portland REVIEWED FOR CODE

OCT 20 2014

Permit Number



RENEWAL DATE 12/31/2015 October 7,2014

WARNING - Please thoroughly review the "Customer's Acknowledgement of ProBuild Standard Terms for Manufactured Products" form. Verify design parameters and read notes on this Truss Design Drawing (TDD) and the DrJ Reference Sheet (rev. 10-14) before use. Unless otherwise stated on the TDD, only MITek connector plates shall be used for this TDD to be valid. As a Truss Design Engineer (i.e., Specialty Engineer), the seal on any TDD represents an acceptance of the professional engineering responsibility for the design of the single Truss depicted on the TDD only, under TPI 1. The design assumptions, loading conditions, suitability and use of this Truss for any Building is the responsibility of the Owner, the Owner's authorized agent or the Building Designer, in the Context of the IRC, the IBC, th





General Safety Notes

Failure to Follow Could Cause property damage or personal injury

- 1. Please thoroughly review the "Customer's Acknowledgement of ProBuild Standard Terms for Manufactured Products" form.
- 2. Please thoroughly review all Truss Design Drawing (TDD) cover sheet notes and TDD notes, verify design parameters and review all connection detail notes. Important work scope and responsibilities are defined therein.
- 3. All capitalized terms are as defined in ANSI/TPI 1, the National Design Standard for Metal Plate Connected Wood Truss Construction (TPI 1).
- 4. TPI 1 defines the responsibilities and duties of the Truss Designer (TD), Truss Design Engineer (TDE) and Truss Manufacturer (TM), unless otherwise defined by a Contract agreed upon in writing by the parties involved.
- 5. As a TDE (i.e., Speciality Engineer), the seal on any TDD represents an acceptance of professional engineering responsibility for the design of the single Truss depicted on the TDD only, under TPI 1.
- 6. ProBuild and DrJ Engineering (DrJ) are NOT the Building Designer or Truss System Engineer for any building.
- 7. The design assumptions, loading conditions, load paths, suitability and use of Trusses for any Building is the responsibility of the Owner, the Owner's authorized agent or the Building Designer (BD), in the context of the IRC, the IBC, the local building code and
- 8. The approval of the TDD and any field use of the Truss, including handling, storage, installation and bracing, shall be the responsibility of the BD and Contractor (GC).
- 9. All notes set forth in the TDD and the practices and guidelines of Building Component Safety Information (BCSI) published by the Truss Plate Institute and the Structural Building Component Association (SBCA) are referenced for general guidance.
- 10. Structural submittals (i.e., shop drawings) shall be reviewed by the BD for compatibility with the design of the building or structure, including submittal documents prepared by others, deferred submittal documents and phased submittal documents. This review shall include a notation indicating that the reviewed documents have been found to be in general conformance with the design of the building (or to make specific corrections noted and to return for review). In the absence of this notation, ProBuild will provide its Customer with the design assumptions used per the construction documents, to design the individual structural building components (i.e., Trusses) per TPI 1.
- 11. ProBuild and DrJ shall be permitted to rely on the accuracy and completeness of project contract and construction documents including any specifications that have been furnished to ProBuild in writing by the BD for the building.
- 12. The BD shall provide information that is sufficiently accurate and reliable to be able to design the trusses in the context of the following serviceability issues including, but not limited to: (a) Allowable vertical, horizontal or other required deflection criteria; (b) Any dead load, live load and in-service creep deflection criteria for floors or flat roofs

subject to ponding loads; (c) Any floor or roof camber requirements; (d) Any differential deflection criteriafrom truss-to-truss or truss-to-adjacent structural member; (e) Any deflection and vibration criteria for floor trusses including any strongback bridging requirements, and any dead load, live load, and in-service creep deflection criteria for floor trusses supporting stone or ceramic tile finishes; (f) Moisture, temperature, corrosive chemicals and gases expected to result in a wood moisture content exceeding 19 percent, sustained temperatures exceeding 150 degrees F, and/or corrosion potential from wood preservatives or other sources that may be detrimental to Trusses.

- 13. Due to the lateral thrust developed by scissors-type Trusses, if scissors-type Trusses are part of this design, consideration should be given to bearing wall conditions. Bearing walls supporting scissors-type Trusses should be designed in such a manner that the walls will safely withstand the lateral forces of the Trusses. Consideration of effects on the design of the bearing and the associated wall or beam/header assembly is not a part of this set of TDDs and is not the responsibility of ProBuild or DrJ. Advice from the BD or any RDP should be secured relative to these items if they are not provided in the construction
- documents.
 14. Unless specifically noted in writing otherwise, neither ProBuild nor DrJ have performed any of the following engineering services as it relates to the building that is going to be built: (a) The trusses and any related structural elements are not designed to support any masonry loading conditions, which require special engineering; (b) Areas of the construction documents that do not use truss framing need to be designed by others; (c) All beam, header and related structural element designs are to be performed by others. If any of the previously listed services are required by the Owner, the Owner's authorized agent or the BD, please call 608-628-1453 for assistance.
- 15. The structural building component (SBC) submittal including the TDDs sealed by a TDE where required by the legal requirements or the local jurisdiction, a Truss Placement Diagram (TPD) if required by the construction documents, and the required permanent individual truss member restraint per the TDDs, the appropriate BCSI B-series summary sheets to facilitate proper truss and structural component lateral restraint (LR) and diagonal bracing (DB), any SBC installation information and any related truss and SBC details shall be supplied to the GC/Truss Installer.
- 16. The GC, after reviewing and/or approving the SBC submittal package, shall forward it to the BD for review
- 17. Where required by the project contract or construction documents, including any specifications, a TPD identifying the location of each truss, as assumed by ProBuild based on its review of the project contract documents, will be provided. When the TPD (i.e., structural submittals or shop drawings) serves only as a guide for truss installation, it does not require the seal of any RDP.

- 18. Review the complete contents of the SBC submittal package, the TDDs included (i.e., front, back, text and graphics), any TPDs and any related SBC information before attempting to install the trusses. Reviewing graphics alone is not sufficient.
- 19. Truss manufacturing quality control shall be performed per TPI 1, Chapter 3, and monitored by a third party inspection agency.
- 20. Unless specified by the BD in writing and noted on the TDD, these TDDs are not applicable for use with fire-retardant, preservative-treated or green lumber.
- 21. Plate type, size, orientation and location dimensions indicated are minimum plating
- 22. Lumber used shall be of the species, size and grade, and in all respects, equal to or better than that specified.
- 23. Temporary LR and DB is required to be installed during construction for the purposes of holding trusses in their proper location, plumb and in plane, until permanent individual truss member LR, DB and permanent building stability bracing are completely installed (see BCSI-B1, BCSI-B2, BCSI-B3, BCSI-B7, and BCSI-B10 as applicable).
- 24. Top chords must be sheathed or continuous LRs (i.e., purlins) provided at the spacing indicated on TDD (e.g., 24 in. o.c. maximum).
- 25. If no ceiling is installed or bottom chord LR is specified in writing by the BD, bottom chords require continuous LR at 10 ft. o.c. spacing, or less, along with DB as specified in BCSI-B1, BCSI-B3, BCSI-B7 or BCSI-B10 as applicable.
- 26. Graphical representation of LR members (i.e., purlins), if shown on the TDD, do not depict the size or orientation of the restraint along the top and/or bottom chord and/or web members.
- 27. The size, connections and anchorage of the permanent continuous truss chord and web member LR and DB must be designed by others in such a way as to support the imposed load along the clear span of the LR and DB, or as specified in BCSI-B1, BCSI-B3, BCSI-B7 or BCSI-B10 as applicable.
- 28. Additional permanent building stability bracing for the truss system (e.g., diagonal, X-bracing, etc.) may be required and is to be specified by the BD. DB in accordance with BCSI-B3 may be sufficient.
- 29. The SBCs shall be examined upon delivery to the jobsite and also after they are erected and installed for: (a) dislodged or missing connectors; (b) cracked, dislodged or broken members; or (c) any other damage that may impair the structural integrity of the SBC. Any unreported damage to any SBC during any part of the handling and installation process shall void the ProBuild product warranty.
- 30. During truss installation, never exceed the design loading shown on the TDD and never stack materials on trusses with inadequate LR and DB (see BCSI-B4). Never overload any structural elements with stacks of building materials to a level greater than defined in BCSI-B4
- 31. Connections not shown on the TDDs are the responsibility of others.
- 32. Do not cut or alter a truss member, a truss plate or any related structural element member without prior approval of an RDP or TDE.
- 33. Install and load trusses vertically unless otherwise indicated in writing by the BD or as specifically defined on the TDD or TPD.
- 34. Sheathing applied in the plane of the truss is not considered in the design of the individual truss components (e.g., a gable-end truss has no composite stiffness analysis performed) unless specifically noted.
- 35. Attachment of the purlin gable (i.e., hip frames or lay-in gables) to the supporting hip trusses satisfies the LR and DB requirements for the top chord of the hip trusses. Refer to the TDD for the individual trusses braced in this manner.
- 36. These trusses are designed using MiTek standard engineering analysis methods and associated software in accordance with TPI 1 and related proprietary information.

Each Truss Design Drawing (TDD) uses Metal Connector Plate (MCP) design values published by MCP manufacturers. Any referenced connectors use design values published by the connector manufacturer or the American Wood Council per the National Design Specification (NDS) for Wood Construction. The TDD further uses lumber design values published by the applicable lumber rules-writing agency as approved by the American Lumber Standards Committee. These are incorporated into lumber design provisions and equations created by the American Wood Council and input into modeling and analysis TDD software created and owned by the MCP manufacturers. The lumber design values correspond with the grade stamp identified by the TM on the lumber prior to cross cutting. The lumber grading rules published by the rules-writing agency shall apply to the Owner, BD and GC

The "WARNING" note found on the bottom of each TDD references this document by calling it the "DrJ Reference Sheet (rev. 10-14)"



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DrJ Engineering, LLC 6300 Enterprise Lane Madison, WI 53719 www.drjengineering.org

This symbol indicates the required direction of slots in connector plates. * Plate location details available in MiTek 20/20 software or upon reque PLATE SIZE The first dimension is the plate width measured perpendic 4 x 4 to slots. Second dimension is the length parallel to slots.

CHORD

PP

LATERAL RESTRAINT LOCATION

Numbering System

WEBS

dimensions shown in ft-in-sixteenths

CHORD

(Drawings not to scale)

TOP CHORDS

BOTTOM CHORDS 6

JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS

Symbols

PLATE LOCATION AND ORIENTATION

offsets are indicated.

and fully embed teeth.

Center plate on joint unless x, y

Dimensions are in ft-in-sixteenths.

Apply plates to both sides of truss

For 4 x 2 orientation, locate

plates 0 - 1/16" from outside

edge of truss.

THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

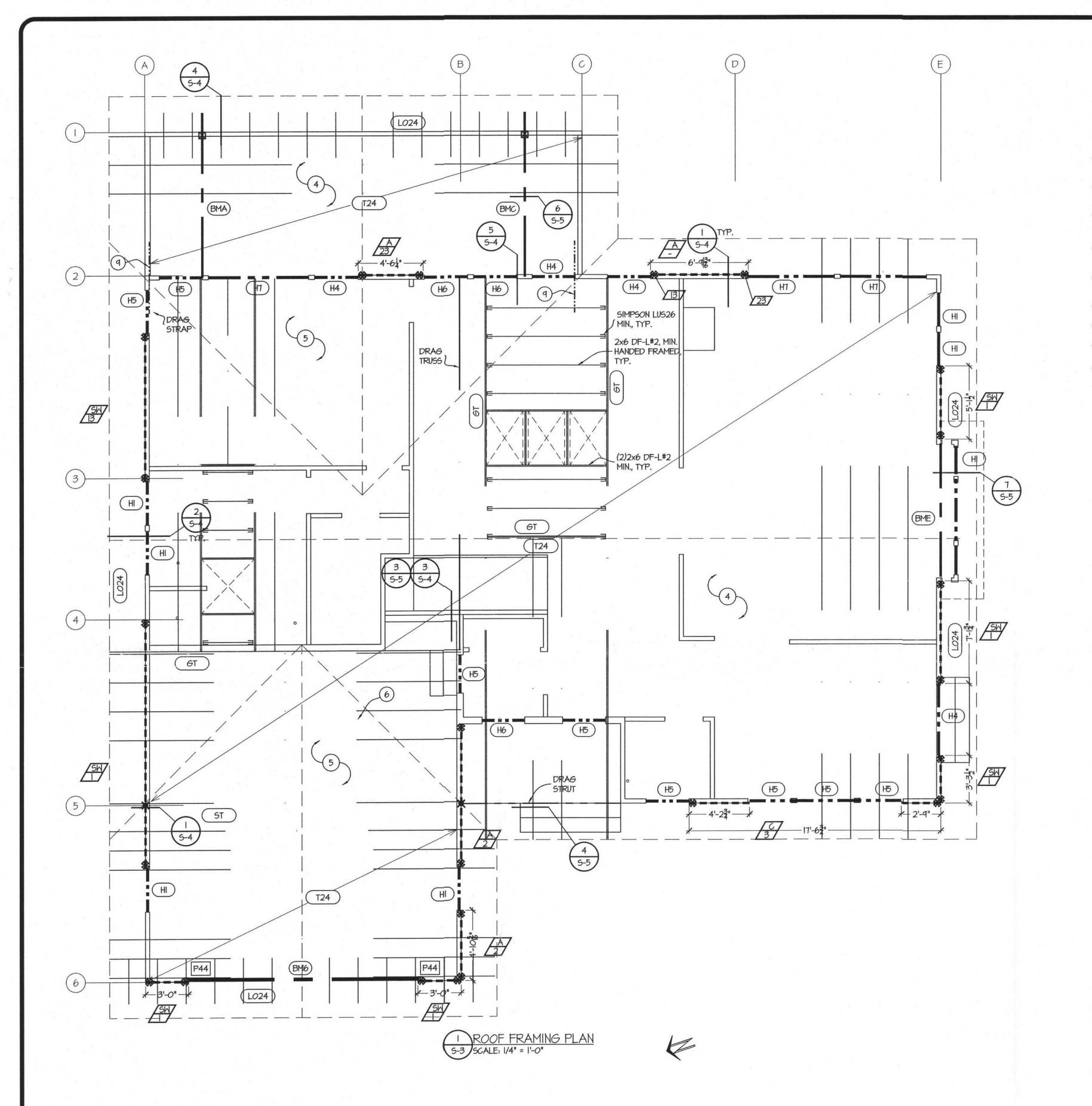
Indicated by symbol shown and/or by text in the bracing section of the output. Use T-, L-, or I-Reinforcement or proprietay bracing (e.g. eliminator) if indicated. NOTE - LATERAL RESTRAINTS MUST BE BRACED. REFER TO BCSI OR AS SPECIFIED BY THE BUILDIN DESIGNER

Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint numb where bearings occur.

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Permit Number

City of Portland REVIEWED FOR



Roof Framing Plan Notes

- PROVIDE BEAMS AND HEADERS AS NOTED ON PLANS WITH A MINIMUM (2) 2X6 DFL #2 OVER ALL OPENINGS IN ALL EXTERIOR AND BEARING WALLS.
- PROVIDE POSTS AS NOTED ON PLANS WITH A MINUMUM DOUBLE STUD POST UNDER ALL BEAMS, HEADERS, AND GIRDER TRUSSES.
- PROVIDE WALL STUDS AS NOTED ON PLANS WITH A MINIMUM 2X6 DFL #2 AT 24" O.C. AT ALL EXTERIOR AND BEARING WALLS, AND A MINIMUM 2X4 STUD GRADE AT 24" O.C. AT INTERIOR AND PARTITION WALLS.
- TYPICAL ROOF SHEATHING TO BE 1/2" APA RATED PLYWOOD WITH 8d NAILS AT 6/12. SEE 1 / 5-5
- 5) 2X6 OVERFRAMING AT 24" O.C. WITH 2X4 POSTS AT 48" O.C. TO FRAMING BELOW. SEE 6 / 5-4)
- 6 PROVIDE FULL SHEATHING ON TRUSSES OR JOISTS UNDER OVERFRAMING.
- 7 PROVIDE MINIMUM 20" X 30" ACCESS TO ALL ATTIC SPACES.
- 8 PROVIDE SOLID BLOCKING AT ALL CEILING HUNG FIXTURE LOCATIONS.
- 9 SIMPSON MSTI60 DRAG STRAP W/ BLOCK FOR 2 TRUSS BAYS, SIMILAR TO DETAIL 5 / 5-4

ATTIC VENTING CALCULATIONS

MINIMUM ATTIC VENTILATION REQUIRED BY IBC 1203.2: FLOOR AREA: 2310 SQUARE FEET REQUIRED VENT AREA (WITH VAPOR BARRIER AND HIGH & LOW VENTS) 2310*144/300 = 1109 IN. SQ.

PROVIDED VENT AREA:
-EAVE VENTS:
1" DIA. SCREENED HOLES AT 8" O.C. IN 80 LINEAL FEET, 12/8*0.79*80 = 94 SQ. IN.
-GABLE VENTS:
(3) 12"X16" GABLE VENTS, 3*12*16 = 576 IN.SQ.
-ROOF VENTS:
(3) 8" DIA. ROOF VENTS, 3*175 = 530 IN.SQ.

TOTAL PROVIDED = 94+576+530 = 1200 SQ. IN.

TRU	ISS SCHEDULE
T24	MFGR. ROOF TRUSSES @ 24" O.C.
<u>6</u> T	MFGR. ROOF GIRDER TRUSS
ST)	MFGR. ROOF SHEAR TRUSS
L024	2X4 DF #2 LOOKOUTS @ 24" O.C.

E	BEAM SCHEDULE	LEFT	RIGHT
BMA	5-1/2" X 9" GLB	AC/6X6 POST	HTS/(2) 2x4
BMC	5-1/2" X 9" GLB	AC/6X6 POST	HTS/(2) 2×4
BME	4 X 6 DF-L #2	DBL. STUD	DBL. STUD
(BM2)	5-1/8" X 13 1/2" GLB	AC/6X6 POST	AC/6X6 POST
(BM3)	5-1/8" X 12" GLB	AC/6X6 POST	AC/6X6 POST
BM6	3-1/2" X 12" GLB	ACE\4×4	ACE\4x4
(BM3.5)	4 X IO DF-L #2	LUS4IO	AC/4x4
ВМА.Э	4 X IO DF-L #2	(2) H2A	LUS410

HEA	DER SCHEDULE	LEFT	RIGHT
HI (2	2) 2 X 6 DF #2	DBL. STUD	DBL. STUD
H2 (2	2) 2 X 8 DF #2	DBL. STUD	DBL. STUD
H3 (2	2) 2 X IO DF #2	DBL. STUD	DBL. STUD
H4 4	X 6 DF #2	DBL. STUD	DBL. STUD
H5 4	X 8 DF #2	DBL. STUD	DBL. STUD
H6 4	X 10 DF #2	DBL. STUD	DBL. STUD
(HT) 4	X 12 DF #I	DBL. STUD	DBL. STUD

1	NALL SCHEDUL	E ====
(W616)	2 X 6 DF #2 @ 16" (D.C.
W416	2 X 4 DF #2 @ 16" (D.C.
W424	2 X 4 DF Std. @ 24	" O.C.
F	POST SCHEDUL	EØ
P226	(2) 2 × 6 DF #2	(TYP.)
P224	(2) 2 X 4 DF #2	
5204	(3) 2 X 6 DF #2	
P326	(5) Z N O DI "Z	ш
P44	4 X 4 DF #2	0

	HOLD	OWN S	SCHED	DULE 🗱	
TYPE	MODEL	BOLT DIA.	END DIST.	FASTENERS	MIN. POST
	DTT2Z	1/2"	-	(8) SDS 1/4"X2-1/2"	(2) 2X
2	MSTCM60	- 3	18"	SEE 9/S-6	4X
37	MSTCM60	-	18"	SEE 9/S-6	4X
<u> 137</u>	CMSTCI6	-	20"	(50) 0.148"X3"	(2) 2X
/23/	МЅТС66ВЗ	1 40	21"	(56) O.162"X3-1/2"	(2) 2X

		SHEA	R WALL	SCHEDULE =		
TYPE	APA RATED SHEATHING (ZI)	SIDE	STUDS/ BLOCKING	EDGE NAILING (Z2)	SILL BOLTS (Z5)	SOLE PLATE 10 RIM OR SILL PLATE (Z4)
/SW/	7/16"	ONE	2X	0.131"X2-1/2" @ 6"	1/2"¢@36"OC	0.162"X3-1/2" @ 6"
	7/16"	ONE	2X	0.131"X2-1/2" @ 4"	1/2"0@24"00	0.l62"X3-l/2" @ 4"
B	7/16"	ONE	<u>3x</u>	0.131"X2-1/2" @ 3"	1/2"¢@18"OC	0.162"X3-1/2" @ 4"
[0]	7/16"	ВОТН	2X	0.131"X2-1/2" @ 4"	1/2"00 2"00	0.162"X3-1/2" @ 2"

* STUDS AND BLOCKING SHALL BE OF SPECIFIED SIZE AT ALL PLYWOOD JOINTS

(2) 2X MAY BE SUBSTITUTED FOR 3X WHERE 2X'S ARE NAILED TOGETHER WITH IOD AT 3" O.C. STAGGERED

NAILING: 0.131"x2-1/2" = 8d, 0.148"x3" = 10d, 0.162" x 3-1/2" = 16d

SILL BOLTS: 1/2" DIA SIMPSON TITENS BOLTS EMBEDDED 3-1/2" IN TO CONCRETE MAY BE SUBSTITUTED

FOR 1/2" DIA CAST IN BOLT REQUIREMENT

City of Portland
REVIEWED FOR CODE
COMPLIANCE
OCT 2 0 2014
Permit Number





DOCUMEN

Scale AS NOTED
Drawn By JJB
Checked DSW
Date 10/7/14

BERTHOLE 2300

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Checked DSW
Date 10/7/14
Job # 14121
Sheet #

S-3