



# Weaver

CONSTRUCTION MANAGEMENT  
3679 S Huron Street, Suite 404 Englewood, Colorado 80110  
Phone: (303) 789-4111 FAX: (303) 789-4310

## SUBMITTAL TRANSMITTAL

August 20, 2012

WGC Submittal No: 06100-002.B

PROJECT: Harold Thompson Regional WRF  
Birdsall Rd.  
Fountain, CO 80817  
Job No. 2908

ENGINEER: GMS, Inc.  
611 No. Weber St., #300  
Colorado Springs, CO 80903  
719-475-2935 Roger Sams

OWNER: Lower Fountain Metropolitan  
Sewage Disposal District  
901 S. Santa Fe Ave.  
Fountain, CO 80817  
719-382-5303 James Heckman

CONTRACTOR: Lam-Wood Systems, Inc.  
1580 W 47<sup>th</sup> Ave.  
Denver, CO 80211  
303-458-1736 Michael Levy

SUBJECT: Corrections to Revised and Resubmitted- Roof Truss Shop Drawings for the Blower Building

SPEC SECTION: 06100- Carpentry (3.3 D)

PREVIOUS SUBMISSION DATES: 8/06/12

DEVIATIONS FROM SPEC: \_\_\_ YES X NO

CONTRACTOR'S STAMP: This submittal has been reviewed by Weaver Construction Management and, unless indicated otherwise, has been found to be in conformance with the intent of the contract documents.

Contractor's Stamp:

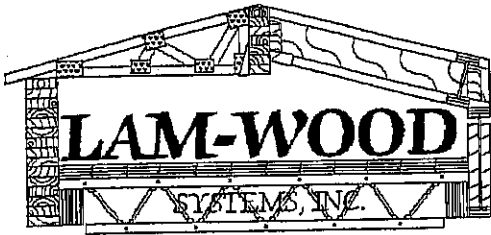
Date: 8/20/12

Reviewed by: John Jacob

( ) Reviewed Without Comments  
(X) Reviewed With Comments

Engineer's Stamp:

ENGINEER'S  
COMMENTS:



1580 W 47th AVE. DENVER, CO 80211  
 (303) 458-1736, FAX (303) 458-1739

TO: Weaver General Construction, Co.  
3679 S Huron Street #404  
Englewood, CO 80110  
303-789-4111

The following items:

- Shop Drawings       Prints       Plans       Specifications  
 Copy of Letter       Change order       Samples      \_\_\_\_\_

## LETTER OF TRANSMITTAL

DATE: 8/20/12	JOB NO.: 10609-02ML
ATTENTION: John Jacobs	
RE: Harold D Thompson Reg WRF	
<b>Blower Building</b>	
Fountain, CO 80817	
john@weavercm.com & leslie@weavercm.com	

We are sending you:

- Attached  
 Under separate cover

Via: \_\_\_\_\_ e-mail, see above

COPIES	DATE	NO.	DESCRIPTION
1			Roof Truss shop drawings - Corrections to Revised and Resubmitted

**FOR APPROVAL ONLY**

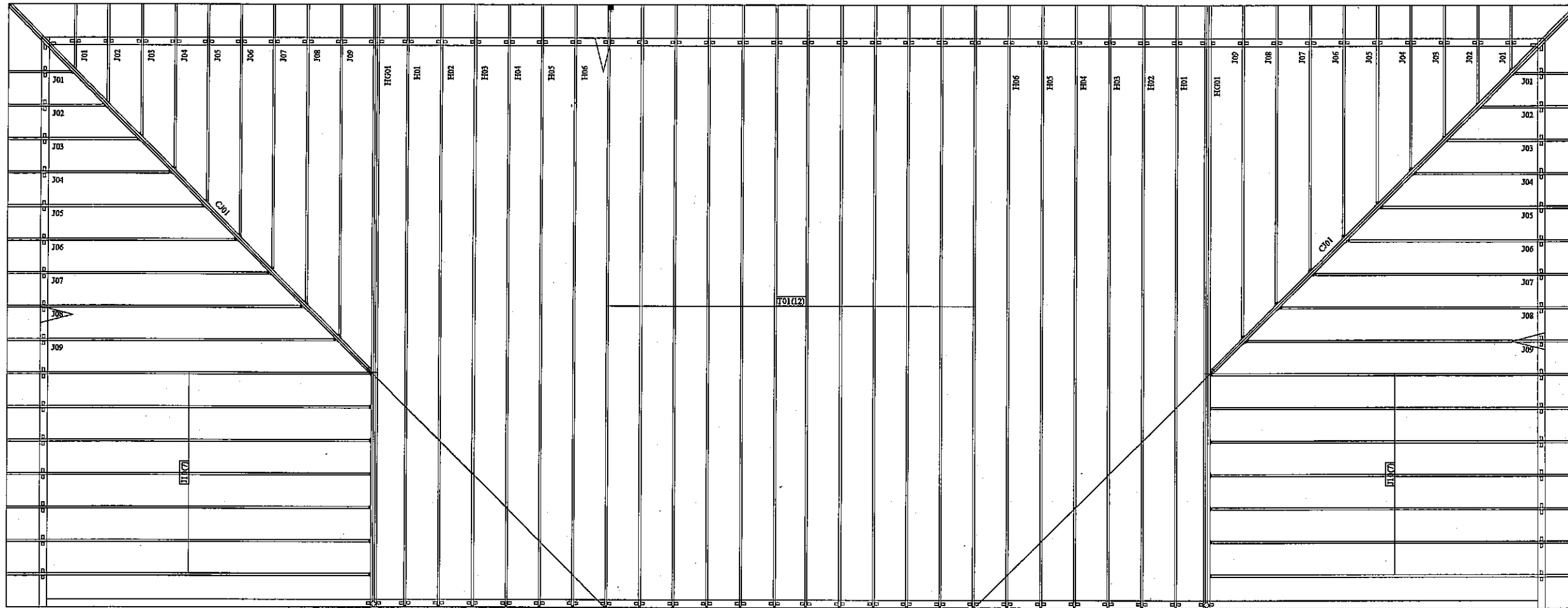
THESE ARE TRANSMITTED as checked below:

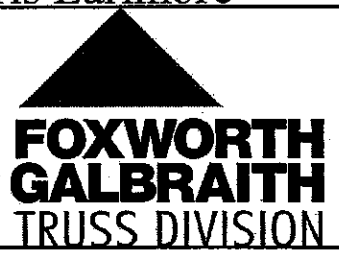
- For approval       Approved as submitted       Resubmit \_\_\_\_\_ copies for approval  
 For your use       Approved as noted       submit \_\_\_\_\_ copies for distribution  
 As requested       Returned for corrections       Return 1 corrected prints  
 For Review and Comment      \_\_\_\_\_  
 For Bids due : \_\_\_\_\_ 20 \_\_\_\_\_       Prints returned after loan to Lam-Wood

REMARKS: \_\_\_\_\_  
 \_\_\_\_\_  
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COPY TO: File

SIGNED: \_\_\_\_\_



CLIENT:
<b>Lam-Wood System</b>
JOB:
Harold Thompson - Blower Building
Fountain, Co.
Roof Loading
30-10-10
DATE:
<b>8/2/2012</b>
JOB #:
<b>B1207010</b>
DRAWN BY:
<b>Chris Larimore</b>


THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult "Bracing of wood trusses" available from the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53178.



**MiTek USA, Inc.**

7777 Greenback Lane  
Suite 109  
Citrus Heights, CA, 95610  
Telephone 916/676-1900  
Fax 916/676-1909

Re: B1207010

Lam-Wood System, Inc.

The truss drawing(s) referenced below have been prepared by MiTek Industries, Inc. under my direct supervision based on the parameters provided by Foxworth Galbraith-Colorado Springs.

Pages or sheets covered by this seal: R35020077 thru R35020095

My license renewal date for the state of Colorado is October 31, 2013.

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



August 17, 2012

Tingey, Palmer

The seal on these drawings indicate acceptance of professional engineering responsibility solely for the truss components shown. The suitability and use of this component for any particular building is the responsibility of the building designer, per ANSI/TPI 1.

Job B1207010	Truss CJ01	Truss Type DIAGONAL HIP GIRDER	Qty 2	Ply 2	Lam-Wood System, Inc. R35020077
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Foxworth Galbraith Truss Co, Colorado Springs, CO 80907

7.250 s Aug 25 2011 MiTek Industries, Inc. Fri Aug 17 12:05:15 2012 Page 1  
ID:YyZh5RYd5kZk6NQeEMKKQoymyn4-10vlyRIHCm2FagUsjwUXjq9yw9YRV1EM04RB\_DymwM

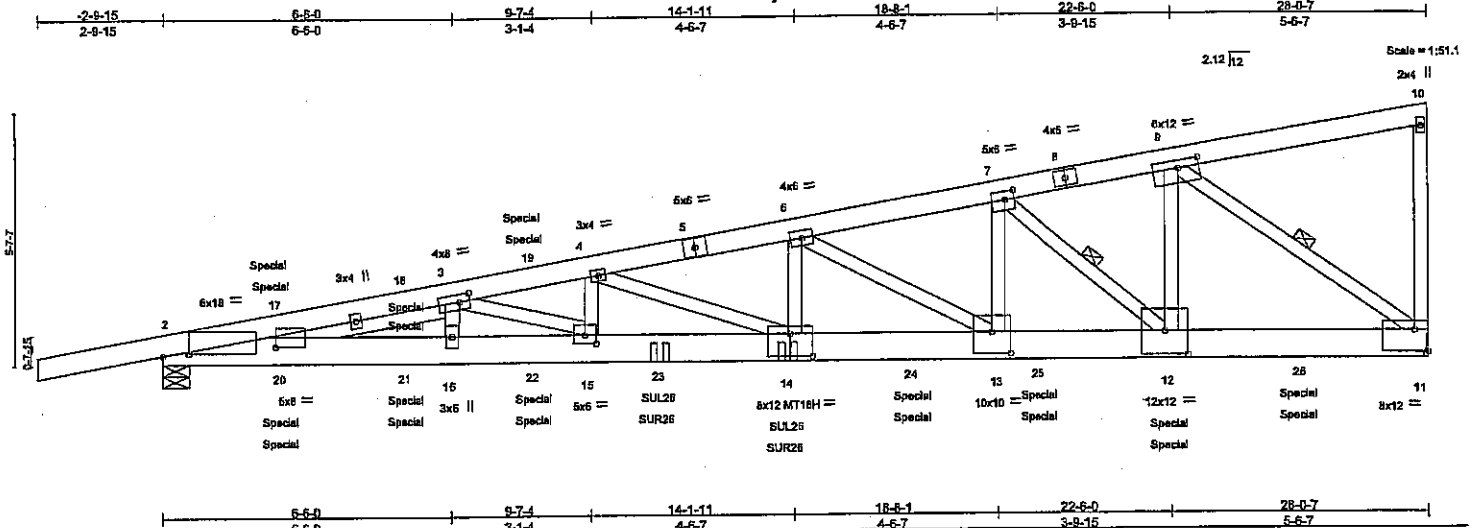


Plate Offsets (X,Y): [2:0-6-13,0-0-10], [2:2-6-1,0-2-6], [3:0-2-12,0-2-0], [7:0-2-8,0-2-4], [9:0-5-8,0-2-0], [11:Edge,0-5-12], [12:0-6-0,0-6-4], [13:0-5-0,0-5-12], [14:0-6-0,0-6-0], [15:0-3-0,0-2-4]

<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 30.0 (Roof Snow=30.0) TCDL 10.0 BCLL 0.0 * BCDL 10.0	0-6-0 Plates Increase 1.15 Lumber Increase 1.15 Rep Stress Incr NO Code IRC2009/TP12007	TC 0.61 BC 0.85 WB 1.00 (Matrix)	in (loc) l/defl L/d Vert(LL) -0.52 14-15 >638 240 Vert(TL) -0.94 14-15 >354 180 Horz(TL) 0.18 11 n/a n/a	MT20 MT18H Weight: 357 lb FT = 0%	169/123 169/123

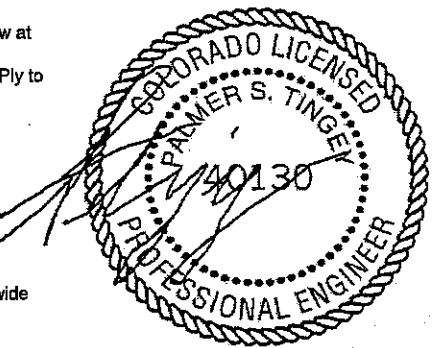
**LUMBER**  
**TOP CHORD** 2 X 6 SPF 2100F 1.8E  
**BOT CHORD** 1.5 X 7.25 Versa-Lam LVL 24F6 \*Except\*  
 11-14: 2 X 4 DF 1950F 1.5E  
**WEBS** 2 X 4 WW Stud/Std \*Except\*  
 6-14,7-13: 2 X 4 SPF No.2, 9-12,9-11: 2 X 4 SPF 1650F 1.5E  
**SLIDER** Left: 2 X 4 SPF No.2 4-1-7

**REACTIONS** (lb/size) 11=8167/Mechanical, 2=4359/0-7-0 (min. 0-3-10)  
 Max Horz 2=64(LC 6)  
 Max Uplift 11=2875(LC 5), 2=1565(LC 7)  
 Max Grav 11=8258(LC 2), 2=4389(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**TOP CHORD** 2-17=18538/6421, 17-18=18522/6419, 3-18=18472/6393, 3-19=19990/6972,  
 4-19=19900/6926, 4-5=18651/6525, 5-6=18640/6526, 6-7=14622/5142,  
 7-8=9666/3393, 8-9=9658/3394  
**BOT CHORD** 2-20=6286/18109, 20-21=6286/18109, 16-21=6286/18109, 16-22=6286/18109,  
 15-22=6286/18109, 15-23=6861/19690, 14-23=6861/19690, 14-24=6378/18243,  
 13-24=6378/18243, 13-25=5050/14394, 12-25=5050/14394, 12-26=3324/9520,  
 11-26=3324/9520  
**WEBS** 3-16=475/301, 3-15=629/1710, 4-14=1454/481, 6-14=997/2879, 6-13=4449/1534,  
 7-13=1832/5152, 7-12=6545/2318, 9-12=3068/8709, 9-11=11923/4184

- NOTES**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
 Top chords connected as follows: 2 X 6 - 2 rows at 0-4-0 oc, 2 X 4 - 1 row at 0-9-0 oc.  
 Bottom chords connected as follows: 1.5 X 7.25 - 2 rows at 0-9-0 oc.  
 Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc, Except member 12-7 2 X 4 - 1 row at 0-7-0 oc, member 11-9 2 X 4 - 1 row at 0-7-0 oc.
  - 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.
  - Wind: ASCE 7-05; 100mph; TC DL=4.5psf; BC DL=4.5psf; h=25ft; Cat. III; Exp C; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
  - TCLL: ASCE 7-05; Pf=30.0 psf (flat roof snow); Category III; Exp C; Fully Exp.; C1=1
  - Unbalanced snow loads have been considered for this design.
  - This truss has been designed for greater of min roof live load of 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
  - All plates are MT20 plates unless otherwise indicated.
  - 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.

Continued on page 2



August 17, 2012

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**  
 Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult: ANSI/TP1 Quality Criteria, DSS-89 and BC31 Building Component



Job	Truss	Truss Type	Qty	Ply	Lam-Wood System, Inc.	R35020077
B1207010	CJ01	DIAGONAL HIP GIRDER	2	2	Job Reference (optional)	

Foxworth Galbraith Truss Co, Colorado Springs, CO 80907

7.250 s Aug 25 2011 MITek Industries, Inc. Fri Aug 17 12:05:16 2012 Page 2  
 ID:VyZh5RYd5kZk6NQeEMKkQcymyn4-maT79njvz3A6np32He?mG1h7gZugEUUVFkAkXtymwMH

**NOTES**

- 10) Refer to girder(s) for truss to truss connections.
- 11) Provide metal plate or equivalent at bearing(s) 10 to support reaction shown.
- 12) 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.
- 13) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 14) Use Simpson Strong-Tie SUL26 (6-10d Girder, 6-10dx1 1/2 Truss) or equivalent spaced at 2-9-15 oc max. starting at 11-1-13 from the left end to 13-11-12 to connect truss(es) J04 (1 ply 2 X 4 SPF) to front face of bottom chord.
- 15) Use Simpson Strong-Tie SUR26 (6-10d Girder, 6-10dx1 1/2 Truss) or equivalent spaced at 2-9-15 oc max. starting at 11-1-13 from the left end to 13-11-12 to connect truss(es) J04 (1 ply 2 X 4 SPF) to back face of bottom chord.
- 16) Fill all nail holes where hanger is in contact with lumber.
- 17) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 10 lb up at 2-8-0, 10 lb up at 2-8-0, 126 lb down and 67 lb up at 5-5-15, 126 lb down and 67 lb up at 5-5-15, and 242 lb down and 134 lb up at 8-3-14, and 242 lb down and 134 lb up at 8-3-14 on top chord, and 34 lb down at 2-8-0, 34 lb down at 2-8-0, 73 lb down at 5-5-15, 73 lb down at 5-5-15, 113 lb down at 8-3-14, 113 lb down at 8-3-14, 1029 lb down and 380 lb up at 16-9-11, 1029 lb down and 380 lb up at 16-9-11, 1112 lb down and 405 lb up at 19-7-10, 1112 lb down and 405 lb up at 19-7-10, 1207 lb down and 434 lb up at 22-5-9, 1207 lb down and 434 lb up at 22-5-9, and 1085 lb down and 374 lb up at 25-3-8, and 1085 lb down and 374 lb up at 25-3-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S) Standard**

- 1) Snow: Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-10=-20, 2-11=-5  
 Concentrated Loads (lb)  
 Vert: 14=-1118(F=-559, B=-559) 12=-2414(F=-1207, B=-1207) 17=10(F=5, B=5) 18=-247(F=-124, B=-124) 19=-480(F=-240, B=-240) 20=-34(F=-17, B=-17)  
 21=-73(F=-36, B=-36) 22=-113(F=-56, B=-56) 23=-855(F=-428, B=-428) 24=-2058(F=-1029, B=-1029) 25=-2223(F=-1112, B=-1112) 26=-2169(F=-1085, B=-1085)

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.**

Design valid for use only with MITek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



7777 Greenback Lane, Suite 109

Job B1207010	Truss HD1	Truss Type HALF HIP TRUSS	Qty 2	Ply 1	Lam-Wood System, Inc. Job Reference (optional)	R35020078
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Foxworth Galbraith Truss Co, Colorado Springs, CO 80907

7.250 s Aug 25 2011 Mitek Industries, Inc. Fri Aug 17 12:05:18 2012 Page 1  
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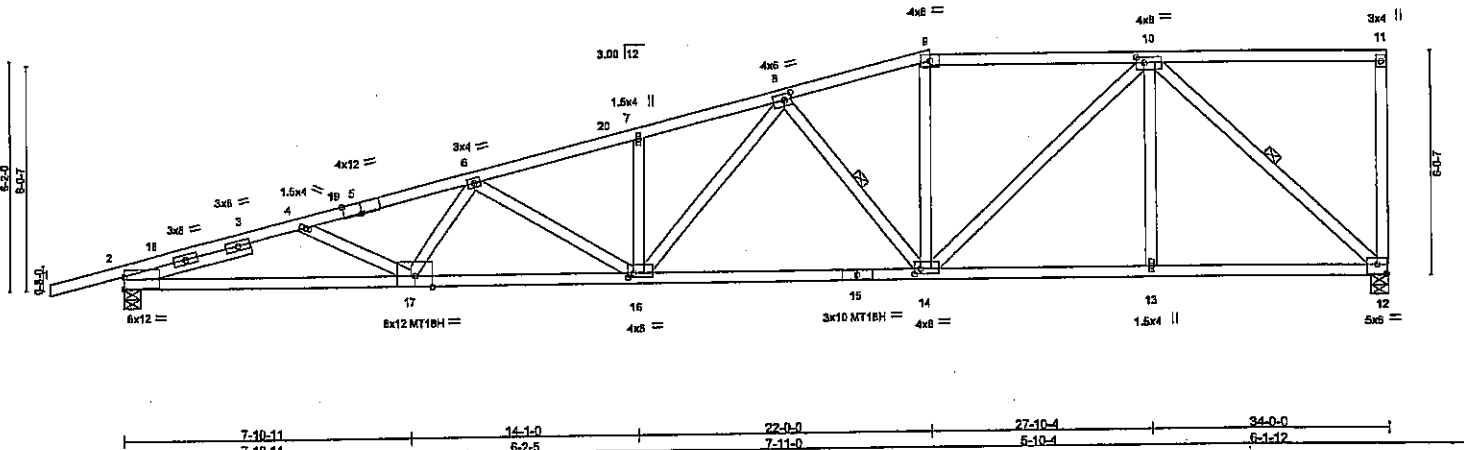
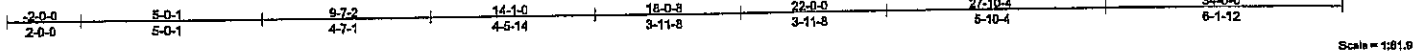


Plate Offsets (X,Y): [2:0-0-0-0-3-14], [5:0-6-0-Edge], [8:0-2-8-0-2-0], [10:0-2-8-0-1-12], [12:0-3-0-0-3-0], [14:0-2-0-0-1-12], [16:0-1-12-0-1-8]

<b>LOADING (psf)</b>	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 30.0 (Roof Snow=30.0)	2-0-0 Plates Increase 1.15 Lumber Increase 1.15	TC 0.97 BC 0.86 WB 0.80 (Matrix)	in (loc) l/def L/d Vert(LL) -0.46 16-17 >881 240 Vert(TL) -0.80 14-16 >507 180 Horz(TL) 0.22 12 n/a n/a	MT20 MT18H	169/123 169/123
TCDL 10.0	Rep Stress Incr NO			Weight: 148 lb	FT = 0%
BCLL 0.0 *	Code IRC2009/TP12007				
BCDL 10.0					

**LUMBER**  
**TOP CHORD** 2 X 4 SPF 2100F 1.8E \*Except\*  
 9-11: 2 X 4 SPF 1650F 1.5E, 1-5: 2 X 4 DF 2400F 2.0E  
**BOT CHORD** 2 X 4 SPF 2100F 1.8E \*Except\*  
 12-15: 2 X 4 SPF 1650F 1.5E  
**WEBS** 2 X 4 WW Stud/Std \*Except\*  
 8-16,10-14,10-12: 2 X 4 SPF No.2  
**SLIDER** Left: 2 X 4 SPF No.2 3-7-10

**BRACING**  
**TOP CHORD** Structural wood sheathing directly applied or 1-8-1 oc purlins, except end verticals.  
**BOT CHORD** Rigid ceiling directly applied or 5-3-7 oc bracing.  
**WEBS** 1 Row at midpt 8-14, 10-12  
 Mitek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS (lb/size)** 12=1896/0-5-8 (min. 0-3-4), 2=2149/0-5-8 (min. 0-4-4)  
 Max Horz 2=360(LC 6)  
 Max Uplift 12=791(LC 5), 2=955(LC 5)  
 Max Grav 12=1976(LC 12), 2=2596(LC 13)

**FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.**  
**TOP CHORD** 2-18=-6724/2187, 3-16=-6599/2196, 3-4=-6592/2196, 4-19=-6582/2161,  
 5-19=-8546/2162, 5-6=-6545/2169, 6-20=-5670/1980, 7-20=-5562/1988, 7-8=-5651/2048,  
 8-9=-3095/1234, 9-10=-2947/1222, 11-12=-291/136  
**BOT CHORD** 2-17=-2183/6301, 16-17=-2171/6289, 15-16=-1451/4107, 14-15=-1451/4107,  
 13-14=-659/1729, 12-13=-659/1729  
**WEBS** 4-17=0/268, 6-16=-1008/336, 7-16=-456/212, 8-16=-689/2100, 8-14=-1870/664,  
 9-14=-72/415, 10-14=-560/1738, 10-12=-2374/996

- NOTES**
- 1) Wind: ASCE 7-05; 100mph; TCDL=4.5psf; BCDL=4.5psf; h=25ft; Cat. III; Exp C; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
  - 2) TCLL: ASCE 7-05; P=30.0 psf (flat roof snow); Category III; Exp C; Fully Exp.; Ct= 1, Lu=50-0-0
  - 3) Unbalanced snow loads have been considered for this design.
  - 4) This truss has been designed for greater of min roof live load of 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
  - 5) Provide adequate drainage to prevent water ponding.
  - 6) All plates are MT20 plates unless otherwise indicated.
  - 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) 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) \*Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 500 lb down and 206 lb up at 14-1-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - 12) 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  
 Continued on page 2

August 17, 2012

Job B1207010	Truss HD1	Truss Type HALF HIP TRUSS	Qty 2	Ply 1	Lam-Wood System, Inc. R35020078
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Foxworth Galbraith Truss Co, Colorado Springs, CO 80907

7.250 s Aug 25 2011 MiTek Industries, Inc. Fri Aug 17 12:05:19 2012 Page 2  
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**LOAD CASE(S)** Standard

- 1) Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
  - Vert: 1-9=-80, 9-11=-80, 2-12=-20
- Concentrated Loads (lb)
  - Vert: 16=500(F)

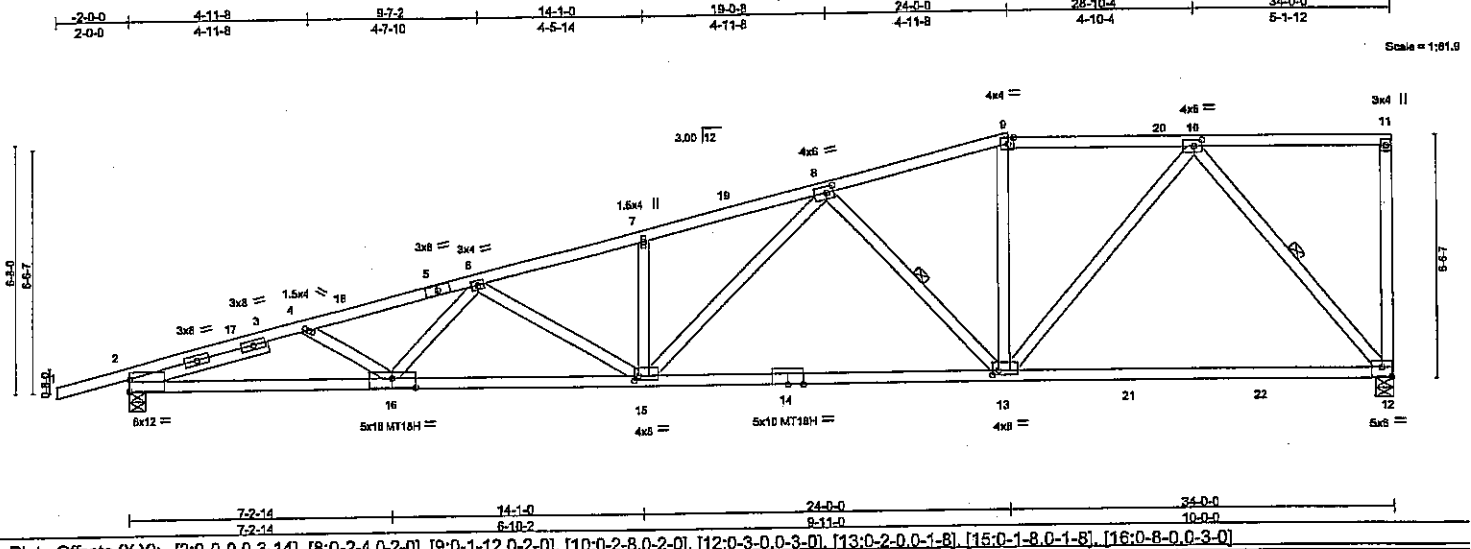
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 BEFORE USE.**  
 Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component.  
 Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown  
 is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the  
 erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding  
 fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI1 Quality Criteria, DSS-89 and BCSI Building Component  
 standards.





Job B1207010	Truss H02	Truss Type HALF HIP TRUSS	Qty 2	Ply 1	Lam-Wood System, Inc. R35020079
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Foxworth Galbraith Truss Co, Colorado Springs, CO 80907  
 7.250 s Aug 25 2011 MITEK Industries, Inc. Fri Aug 17 12:05:20 2012 Page 1  
 ID:YyZh5RYd5kZk6NQaEMKKQcymyn4-eLle?8mP0iGGRMpWU3QlslAFJAjv5ALBygRymwMD



LOADING (psf)		SPACING		CSI		DEFL		PLATES		GRIP	
TCLL	30.0	2-0-0	Plates Increase	1.15	TC	0.98	Vert(LL)	-0.53	15-16	>767	240
(Roof Snow=30.0)		Lumber Increase	1.15	BC	0.84	Vert(TL)	-0.90	15-16	>453	180	MT20
TCDL	10.0	Rep Stress Incr	NO	WB	0.91	Horz(TL)	0.21	12	n/a	n/a	MT18H
BCLL	0.0 *	Code IRC2009/TPI2007		(Matrix)						Weight: 143 lb FT = 0%	
BCDL	10.0										

**LUMBER**  
 TOP CHORD 2 X 4 SPF 1650F 1.5E \*Except\*  
 9-11: 2 X 4 SPF No.2, 1-5: 2 X 4 SPF 2100F 1.8E  
 BOT CHORD 2 X 4 SPF 2100F 1.8E  
 WEBS 2 X 4 WW Stud/Std \*Except\*  
 8-15,10-13,10-12: 2 X 4 SPF No.2  
 SLIDER Left 2 X 4 SPF No.2 3-11-12

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 5-3-6 oc bracing.  
 WEBS 1 Row at midpt 8-13, 10-12

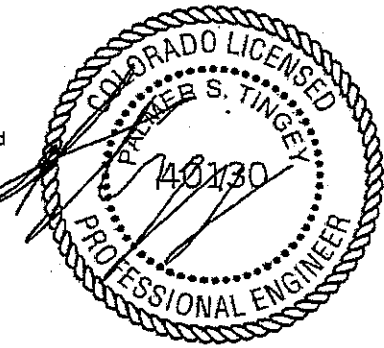
MITEK recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer installation guide.

**REACTIONS** (lb/size) 12=2014/0-5-8 (min. 0-3-5), 2=2170/0-5-8 (min. 0-4-4)  
 Max Horz2=391(LC 6)  
 Max Uplift12=-794(LC 5), 2=-952(LC 5)  
 Max Grav12=2014(LC 1), 2=2596(LC 3)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-17=-6882/2181, 3-17=-6772/2191, 3-4=-6764/2191, 4-18=-6785/2153,  
 5-18=-6745/2154, 5-6=-6674/2161, 6-7=-5918/1978, 7-19=-5914/2041, 8-19=-5786/2047,  
 8-9=-2799/1032, 9-20=-2640/1028, 10-20=-2642/1028  
 BOT CHORD 2-16=-2193/6467, 15-16=-2176/6477, 14-15=-1360/4075, 13-14=-1360/4075,  
 13-21=-538/1423, 21-22=-538/1423, 12-22=-538/1423  
 WEBS 6-15=-943/336, 7-15=-516/238, 8-15=-763/2301, 8-13=-2086/772, 9-13=-36/318,  
 10-13=-559/1949, 10-12=-2243/923

- NOTES**
- 1) Wind: ASCE 7-05; 100mph; TCDL=4.5psf; BCDL=4.5psf; h=25ft; Cat. III; Exp C; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
  - 2) TCLL: ASCE 7-05; Pf=30.0 psf (flat roof snow); Category III; Exp C; Fully Exp.; Ct= 1, Lu=50-0-0
  - 3) Unbalanced snow loads have been considered for this design.
  - 4) This truss has been designed for greater of min roof live load of 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
  - 5) Provide adequate drainage to prevent water ponding.
  - 6) All plates are MT20 plates unless otherwise indicated.
  - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 9) 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) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 500 lb down and 206 lb up at 14-1-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - 12) 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  
 Continued on page 2



August 17, 2012

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE M1-7473 BEFORE USE.**  
 Design valid for use only with Mitek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI1 Quality Criteria, DSB-8? and BCSI Building Component



Job	Truss	Truss Type	Qty	Ply	Lam-Wood System, Inc.	R35020079
B1207010	H02	HALF HIP TRUSS	2	1	Job Reference (optional)	

Foxworth Galbraith Truss Co, Colorado Springs, CO 80907

7.250 s Aug 25 2011 MITek Industries, Inc. Fri Aug 17 12:05:21 2012 Page 2  
 ID:YyZh5RYd5kZk6NQeEMKKQcymyn4-8YG0CUh2ncoPubx?4Bbxz5Ptcabyvm9EP?uVCtymwMC

**LOAD CASE(S) Standard**

- 1) Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
  - Vert: 1-9=-80, 9-11=-80, 2-21=-20, 21-22=-60, 12-22=-20
- Concentrated Loads (lb)
  - Vert: 15=500(F)

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**  
 Design valid for use only with Mitek connectors. This design is based only upon parameters shown, and is for an individual building component.  
 Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown  
 is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the  
 erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding  
 fabrication, quality control, storage, delivery, erection and bracing, consult ANSIP11 Quality Criteria, DSB-89 and BCSI Building Component  
 Fabrication and Erection Manual.

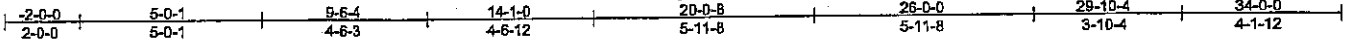


Job B1207010	Truss H03	Truss Type HALF HIP TRUSS	Qty 2	Ply 1	Lam-Wood System, Inc.	R35020080
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Foxworth Galbraith Truss Co, Colorado Springs, CO 80907

Job Reference (optional)

7.250 s Aug 25 2011 Mitek Industries, Inc. Fri Aug 17 15:58:08 2012 Page 1  
ID:YyZh5RYd5kZk6NqQeEMKKQcymyn4-RbYOzIVkmWRm5zD5gDEx3OPGFOZTnJ7OWqfdnmyszr



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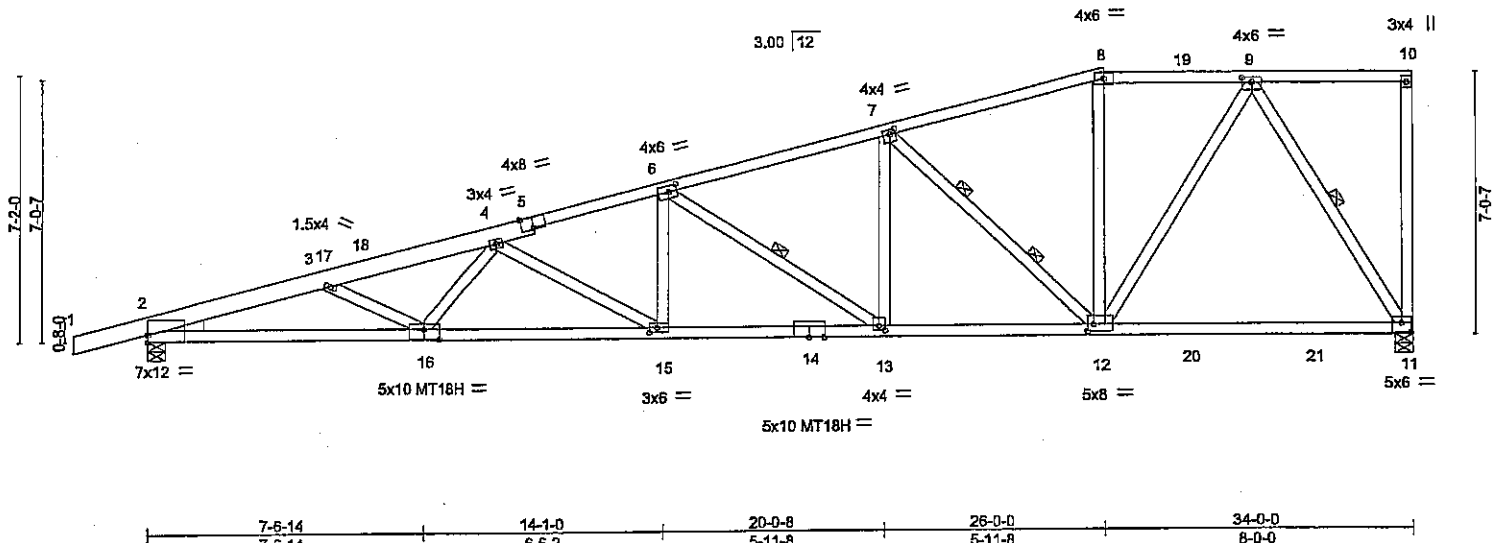


Plate Offsets (X,Y): [2:0-0,0-2-5], [5:0-4-0,Edge], [6:0-2-12,0-2-0], [7:0-1-12,0-1-8], [9:0-3-0,0-1-8], [11:0-3-0,0-3-0], [12:0-2-0,0-2-4], [13:0-2-0,0-1-8], [15:0-2-8,0-1-8], [16:0-5-0,0-3-4]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/def	L/d	PLATES	GRIP
TCLL 30.0 (Roof Snow=30.0)	Plates Increase	1.15	TC 0.85	Vert(LL)	-0.48 15-16	>834	240	MT20	169/123
TCDL 10.0	Lumber Increase	1.15	BC 0.85	Vert(TL)	-0.84 15-16	>478	180	MT18H	169/123
BCLL 0.0	Rep Stress Incr	NO	WB 0.98	Horz(TL)	0.23 11	n/a	n/a		
BCDL 10.0	Code IRC2009/TP12007		(Matrix)						
								Weight: 154 lb	FT = 0%

**LUMBER**  
**TOP CHORD** 2 X 4 SPF 1650F 1.5E \*Except\*  
 8-10: 2 X 4 SPF No.2, 1-5: 2 X 6 SPF 2100F 1.8E  
**BOT CHORD** 2 X 4 SPF 2100F 1.8E  
**WEBS** 2 X 4 WW Stud/Std \*Except\*  
 7-13,9-12,9-11: 2 X 4 SPF No.2

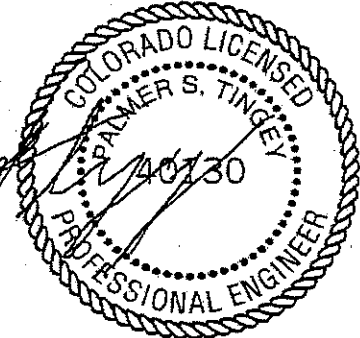
**BRACING**  
**TOP CHORD** Structural wood sheathing directly applied or 2-6-3 oc purlins, except end verticals.  
**BOT CHORD** Rigid ceiling directly applied or 5-3-12 oc bracing.  
**WEBS** 1 Row at midpt 6-13, 9-11  
 2 Rows at 1/3 pts 7-12

Mitek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** (lb/size) 11=1994/0-5-8 (min. 0-3-7), 2=2175/0-5-8 (min. 0-4-4)  
 Max Horz 2=425(LC 6)  
 Max Uplift 11=790(LC 5), 2=964(LC 5)  
 Max Grav 11=2070(LC 13), 2=2577(LC 13)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**TOP CHORD** 2-3=6766/2146, 3-17=6762/2107, 17-18=6757/2109, 4-18=6704/2116, 4-5=5935/1939,  
 5-6=5901/1946, 6-7=4064/1369, 7-8=2294/840, 8-19=2134/847, 9-19=2136/847  
**BOT CHORD** 2-16=2165/6359, 15-16=2152/6459, 14-15=1873/5681, 13-14=1873/5681,  
 12-13=1240/3869, 12-20=417/1123, 20-21=417/1123, 11-21=417/1123  
**WEBS** 4-15=901/323, 6-15=316/1088, 6-13=2164/755, 7-13=363/1258, 7-12=2357/826,  
 9-12=602/1986, 9-11=2177/844

- NOTES**
- 1) Wind: ASCE 7-05; 100mph; TCDL=4.5psf; BCDL=4.5psf; h=25ft; Cat. III; Exp C; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
  - 2) TCLL: ASCE 7-05; Pf=30.0 psf (flat roof snow); Category III; Exp C; Fully Exp.; Ct= 1, Lu=50-0-0
  - 3) Unbalanced snow loads have been considered for this design.
  - 4) This truss has been designed for greater of min roof live load of 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
  - 5) Provide adequate drainage to prevent water ponding.
  - 6) All plates are MT20 plates unless otherwise indicated.
  - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 790 lb uplift at joint 11 and 964 lb uplift at joint 2.
  - 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/TP1 1.
  - 11) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.



August 17, 2012

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**  
 Design valid for use only with Mitek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TP1 Quality Criteria, D58-89 and CCSI Building Component



Job	Truss	Truss Type	Qty	Ply	Lam-Wood System, Inc.	R35020080
B1207010	H03	HALF HIP TRUSS	2	1		

Foxworth Galbraith Truss Co, Colorado Springs, CO 80907

ID:YyZh5RYd5kZk6NQeEMKKQcymyn4-wn6nAeWMXqZdj7oIExlAccxR\_nulWmFYkUOHEDymzsq  
 7.250 s Aug 25 2011 MITek Industries, Inc. Fri Aug 17 15:56:08 2012 Page 2

- NOTES**
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 500 lb down and 206 lb up at 14'-1" 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
- 1) Snow: Lumber Increase=1.15, Plate Increase=1.15
  - Uniform Loads (plf)
    - Vert: 1-8=-80, 8-10=-80, 2-20=-20, 20-21=-60, 11-21=-20
  - Concentrated Loads (lb)
    - Vert: 15=-500(F)

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.**  
 Design valid for use only with Mitek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI1 Quality Criteria, D58-89 and BCSI Building Component



Job B1207010	Truss H04	Truss Type HALF HIP TRUSS	Qty 2	Ply 1	Lam-Wood System, Inc.	R35020081
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Foxworth Galbraith Truss Co, Colorado Springs, CO 80907

Job Reference (optional)

7.250 s Aug 25 2011 MITek Industries, Inc. Fri Aug 17 15:56:19 2012 Page 1

ID:YyZh5RYd5kZk6NDeEMKKQcymyn4-dijZH3ddAuqCwZDp1wX0jM8lpJ9shJ021ppbeymszg

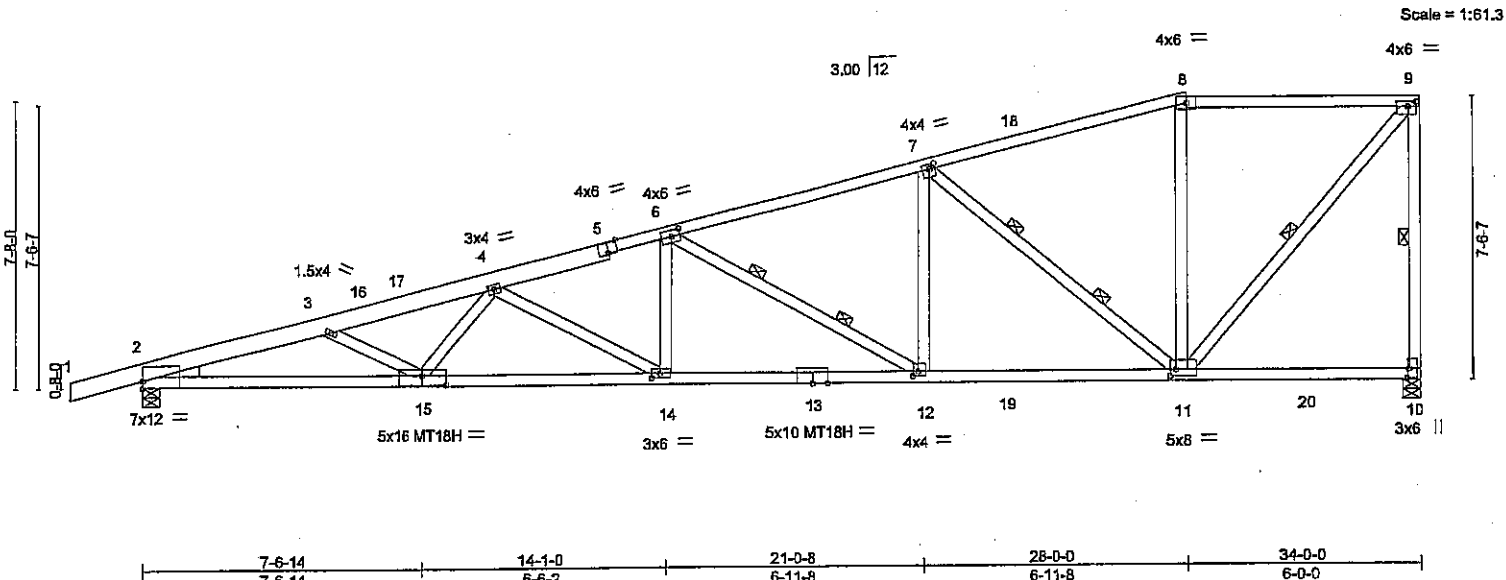
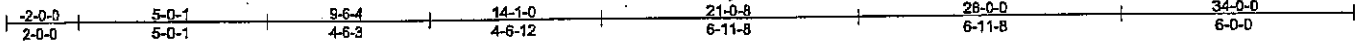


Plate Offsets (X,Y):	[2:0-0-0,0-2-5], [5:0-3-0,Edge], [6:0-2-12,0-2-0], [7:0-1-12,0-1-8], [9:0-2-8,0-1-8], [10:0-3-0,0-0-8], [11:0-1-12,0-2-0], [12:0-1-12,0-1-8], [14:0-2-12,0-1-8], [15:0-8-0,0-3-0]
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<b>LOADING (psf)</b>	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 30.0 (Roof Snow=30.0)	2-0-0	TC 0.86	in (loc) l/def L/d	MT20	169/123
TCDL 10.0	Plates Increase 1.15	BC 0.84	Vert(LL) -0.49 14-15 >829 240	MT18H	169/123
BCLL 0.0	Lumber Increase 1.15	WB 0.98	Vert(TL) -0.84 14-15 >481 180		
BCDL 10.0	Rep Stress Incr NO	(Matrix)	Horz(TL) 0.23 10 n/a n/a		
	Code IRC2009/TP12007			Weight: 154 lb	FT = 0%

<b>LUMBER</b>	<b>BRACING</b>
TOP CHORD 2 X 4 SPF 2100F 1.8E *Except* 8-9: 2 X 4 SPF 1650F 1.5E, 1-5: 2 X 6 SPF 2100F 1.8E	TOP CHORD Structural wood sheathing directly applied or 2-9-1 oc purlins, except end verticals.
BOT CHORD 2 X 4 SPF 2100F 1.8E	BOT CHORD Rigid ceiling directly applied or 5-3-10 oc bracing.
WEBS 2 X 4 WW Stud/Std *Except* 9-10,7-12,7-11,9-11: 2 X 4 SPF No.2	WEBS 1 Row at midpt 9-10, 9-11 2 Rows at 1/3 pts 6-12, 7-11

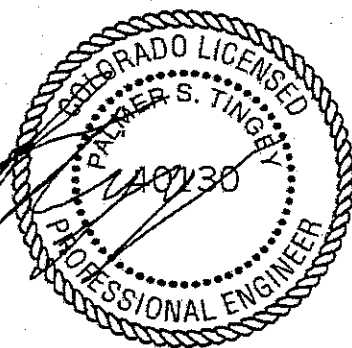
MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** (lb/size) 10=2045/0-5-8 (min. 0-3-11), 2=2195/0-5-8 (min. 0-4-4)  
 Max Horz 2=456(LC 6)  
 Max Uplift 10=-793(LC 5), 2=-961(LC 5)  
 Max Grav 10=2237(LC 13), 2=2566(LC 13)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-6703/2133, 3-16=-6793/2104, 16-17=-6758/2106, 4-17=-6758/2111, 4-5=-6064/1935,  
 5-6=-5955/1943, 6-7=-3985/1270, 7-18=-1821/643, 8-18=-1709/657, 8-9=-1664/677,  
 9-10=-2103/825  
 BOT CHORD 2-15=-2166/6296, 14-15=-2166/6554, 13-14=-1884/5818, 12-13=-1884/5818,  
 12-19=-1150/3780, 11-19=-1150/3780  
 WEBS 3-15=0/293, 4-14=-853/326, 6-14=-313/1055, 6-12=-2335/841, 7-12=-347/1359,  
 7-11=-2747/913, 9-11=-871/2591

- NOTES**
- 1) Wind: ASCE 7-05; 100mph; TCCL=4.5psf; BCDL=4.5psf; h=25ft; Cat. III; Exp C; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
  - 2) TCLL: ASCE 7-05; Pf=30.0 psf (flat roof snow); Category III; Exp C; Fully Exp.; Ct= 1, Lu=50-0-0
  - 3) Unbalanced snow loads have been considered for this design.
  - 4) This truss has been designed for greater of min roof live load of 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
  - 5) Provide adequate drainage to prevent water ponding.
  - 6) All plates are MT20 plates unless otherwise indicated.
  - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 793 lb uplift at joint 10 and 961 lb uplift at joint 2.
  - 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/TP1.

Continued on page 2  
 11) "Semi-rigid" plate breaks including heels" Member end fixity model was used in the analysis and design of this truss.



August 17, 2012

Job	Truss	Truss Type	Qty	Ply	Lam-Wood System, Inc.	R35020081
B120701D	HD4	HALF HIP TRUSS	2	1		

Foxworth Galbraith Truss Co, Colorado Springs, CO 80907

7.250 s Aug 25 2011 MITek Industries, Inc. Fri Aug 17 15:56:19 2012 Page 2  
 ID:YyZh5RYd5kZk6NQeEMKKQcymyn4-dljZH3ddAuqCwZDp1wXQjMB1pJ9shj021ppbeymszg

- NOTES**
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 500 lb down and 206 lb up at 14-1-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S) Standard**

- Snow: Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-8=-80, 8-9=-80, 2-12=-20, 12-19=-60, 19-20=-20, 10-20=-60  
 Concentrated Loads (lb)  
 Vert: 14=-500(F)

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**

Design valid for use only with Mitek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI-1 Quality Criteria, DSB-89 and BCSI Building Component



7777 Greenback Lane, Suite 109

Job B1207010	Truss H05	Truss Type HALF HIP TRUSS	Qty 2	Ply 1	Lam-Wood System, Inc.	R35020082
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Foxworth Galbraith Truss Co, Colorado Springs, CO 80907

7.250 s Aug 25 2011 MITek Industries, Inc. Fri Aug 17 12:05:26 2012 Page 1

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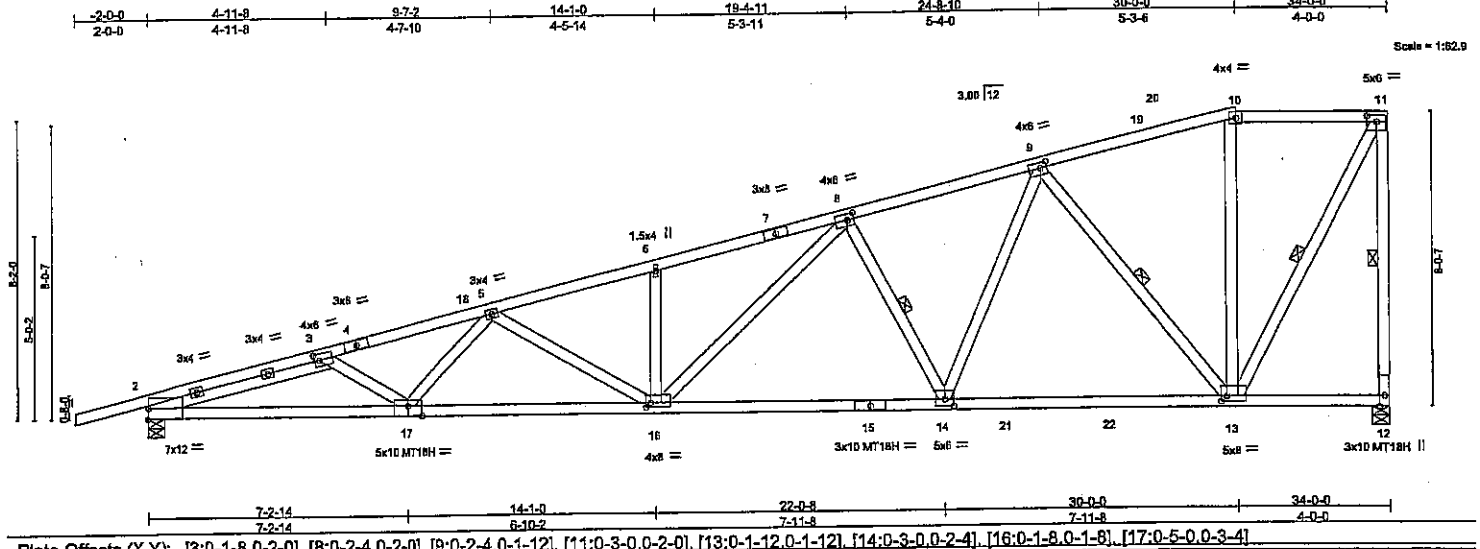


Plate Offsets (X,Y): [3:0-1-8.0-2-0], [8:0-2-4.0-2-0], [9:0-2-4.0-1-12], [11:0-3-0.0-2-0], [13:0-1-12.0-1-12], [14:0-3-0.0-2-4], [16:0-1-8.0-1-8], [17:0-5-0.0-3-4]					
LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 30.0 (Roof Snow=30.0)	2-0-0 Plates Increase 1.15 Lumber Increase 1.15 Rep Stress Incr NO Code IRC2009/TPI2007	TC 0.87 BC 0.97 WB 0.83 (Matrix)	in (loc) l/def L/d Vert(LL) -0.55 16-17 >739 240 Vert(TL) -0.95 16-17 >429 180 Horz(TL) 0.22 12 n/a n/a	MT20 MT18H	169/123 169/123
TCDL 10.0					Weight: 157 lb FT = 0%
BCLL 0.0 *					
BCDL 10.0					

**LUMBER**  
**TOP CHORD** 2 X 4 SPF 1650F 1.5E \*Except\*  
 10-11: 2 X 4 SPF No.2  
**BOT CHORD** 2 X 4 SPF 2100F 1.8E \*Except\*  
 12-15: 2 X 4 SPF 1650F 1.5E  
**WEBS** 2 X 4 WW Stud/Std \*Except\*  
 11-12,8-16,9-14,9-13,11-13: 2 X 4 SPF No.2  
**SLIDER** Left 2 X 4 SPF No.2 5-2-10

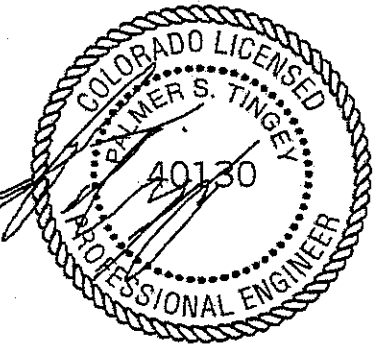
**BRACING**  
**TOP CHORD** Structural wood sheathing directly applied or 1-11-1 oc purlins, except end verticals.  
**BOT CHORD** Rigid ceiling directly applied or 5-2-10 oc bracing.  
**WEBS** 1 Row at midpt 11-12, 8-14, 9-13, 11-13

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** (lb/size) 12=1982/0-5-8 (min. 0-3-12), 2=2179/0-5-8 (min. 0-4-2)  
 Max Horz2=485(LC 6)  
 Max Uplift12=802(LC 5), 2=944(LC 5)  
 Max Grav12=2296(LC 13), 2=2513(LC 13)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**TOP CHORD** 2-3=6693/2192, 3-4=6708/2134, 4-18=6678/2137, 5-18=6632/2142, 5-6=6106/1952,  
 6-7=6117/2020, 7-8=6020/2026, 8-9=3618/1176, 9-19=1261/475, 19-20=1178/476,  
 10-20=1171/480, 10-11=1149/495, 11-12=2288/831  
**BOT CHORD** 2-17=2240/6297, 16-17=2185/6463, 15-16=1327/4255, 14-15=1327/4255,  
 14-21=776/2677, 21-22=776/2677, 13-22=776/2677  
**WEBS** 5-16=705/325, 6-16=577/258, 8-16=815/2254, 8-14=1804/711, 9-14=604/2008,  
 9-13=2482/854, 11-13=804/2495

- NOTES**
- 1) Wind: ASCE 7-05; 100mph; TCDL=4.5psf; BCDL=4.5psf; h=25ft; Cat. III; Exp C; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; and vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
  - 2) TCLL: ASCE 7-05; Pf=30.0 psf (flat roof snow); Category III; Exp C; Fully Exp.; Ci= 1, Lu=50-0-0
  - 3) Unbalanced snow loads have been considered for this design.
  - 4) This truss has been designed for greater of min roof live load of 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
  - 5) Provide adequate drainage to prevent water ponding.
  - 6) All plates are MT20 plates unless otherwise indicated.
  - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 9) 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) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
  - 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 500 lb down and 206 lb up at 14-1-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - 12) 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  
 continued on page 2

August 17, 2012

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7476 BEFORE USE.**  
 Design valid for use only with MITek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not of truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI1 Quality Criteria, D58-89 and BCSI Building Component



Job	Truss	Truss Type	Qty	Ply	Lam-Wood System, Inc.	R35020082
B1207010	H05	HALF HIP TRUSS	2	1	Job Reference (optional)	

Foxworth Galbraith Truss Co, Colorado Springs, CO 80907

7.250 s Aug 25 2011 MITek Industries, Inc. Fri Aug 17 12:05:26 2012 Page 2  
 ID:YyZh5RYd5kZk6NQeEMKKQcymyn4-TV4vFBrAc8Rh\_MqztkA6g86m4bG7a3ezYHbGt4ymwM7

**LOAD CASE(S) Standard**

- 1) Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
  - Vert: 1-10=-80, 10-11=-80, 2-21=-20, 21-22=-60, 12-22=-20
- Concentrated Loads (lb)
  - Vert: 16=-500(F)

**⚠ WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**  
 Design valid for use only with Mitek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI1 Quality Criteria, DSS-89 and BCSI Building Component





Job B1207010	Truss H06	Truss Type HALF HIP TRUSS	Qty 2	Ply 1	Lam-Wood System, Inc. Job Reference (optional)	R35020083
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Foxworth Galbraith Truss Co, Colorado Springs, CO 80907

7.250 s Aug 25 2011 MITek Industries, Inc. Fri Aug 17 12:05:28 2012 Page 1  
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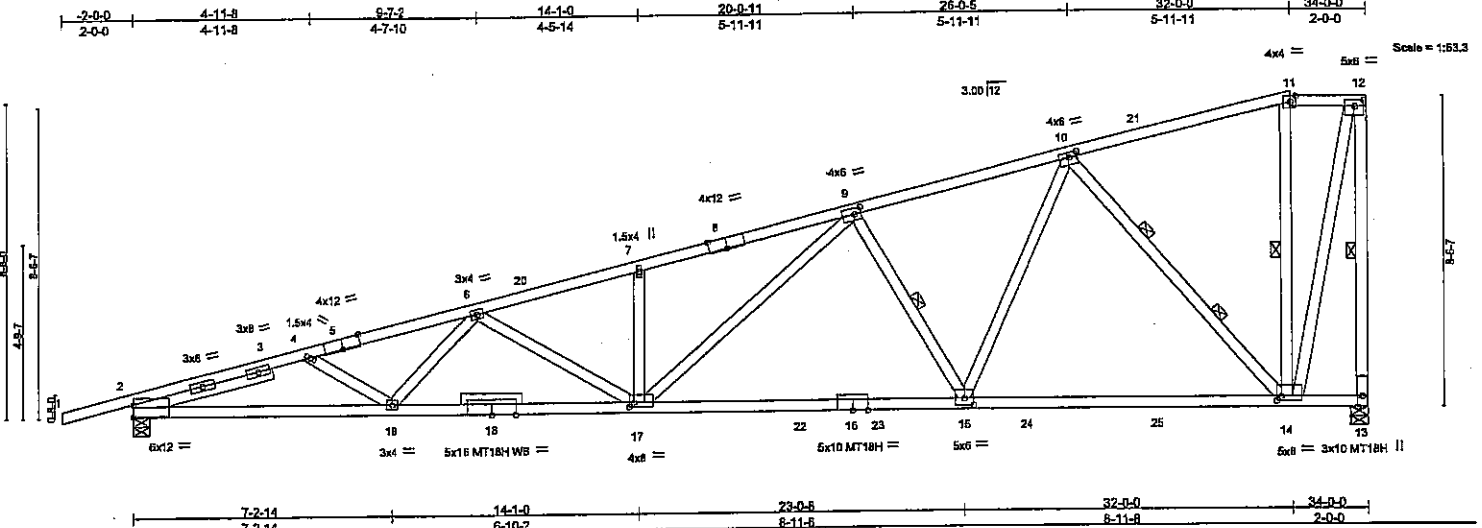


Plate Offsets (X,Y): [2:0-0-0,0-3-14], [5:0-6-0,Edge], [8:0-6-0,Edge], [9:0-2-4,0-2-0], [10:0-2-12,0-1-8], [11:0-1-12,0-2-0], [12:0-2-12,0-2-0], [14:0-1-8,0-1-8], [15:0-3-0,0-2-4], [17:0-1-8,0-1-8]

<b>LOADING (psf)</b>	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 30.0 (Roof Snow=30.0) TCDL 10.0 BCLL 0.0 BCDL 10.0	2-0-0 Plates Increase 1.15 Lumber Increase 1.15 Rep Stress incr NO Code IRC2009/TPI2007	TC 0.94 BC 0.82 WB 0.99 (Matrix)	in (loc) l/defl L/d Vert(LL) -0.52 15-17 >788 240 Vert(TL) -0.94 15-17 >431 180 Horz(TL) 0.22 13 n/a n/a	MT20 MT18H	169/123 197/144
				Weight: 161 lb	FT = 0%

**LUMBER**

**TOP CHORD** 2 X 4 SPF 2100F 1.8E \*Except\*  
11-12: 2 X 4 SPF No.2

**BOT CHORD** 2 X 4 SPF 2100F 1.8E

**WEBS** 2 X 4 WW Stud/Std \*Except\*  
12-13,9-17,10-15,10-14,12-14: 2 X 4 SPF No.2

**OTHERS** 2 X 4 WW Stud/Std

**SLIDER** Left 2 X 4 SPF No.2 3-11-15

**BRACING**

**TOP CHORD** Structural wood sheathing directly applied or 2-1-4 oc purlins, except end verticals.

**BOT CHORD** Rigid ceiling directly applied or 5-3-0 oc bracing.

**WEBS** 1 Row at midpt 12-13, 9-15, 11-14  
2 Rows at 1/3 pts 10-14

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS (lb/size)** 13=2058/0-5-8 (min. 0-4-2), 2=2216/0-5-8 (min. 0-4-2)  
Max Horz2=516(LC 6)  
Max Uplift13=-806(LC 5), 2=-940(LC 5)  
Max Grav13=2497(LC 13), 2=2509(LC 13)

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

**TOP CHORD** 2-3=-6608/2144, 3-4=-6498/2154, 4-5=-6654/2111, 5-6=-6631/2119, 6-20=-6186/1933,  
7-20=-6083/1942, 7-8=-6218/2014, 8-9=-6136/2022, 9-10=-3449/1071, 10-21=-728/280,  
11-21=-634/291, 11-12=-620/315, 12-13=-2541/835

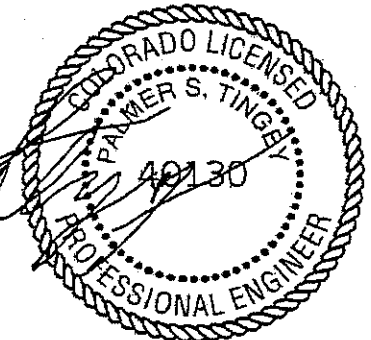
**BOT CHORD** 2-19=-2215/6208, 18-19=-2189/6455, 17-18=-2189/6455, 17-22=-1265/4178,  
16-22=-1265/4178, 16-23=-1265/4178, 15-23=-1265/4178, 15-24=-652/2396,  
24-25=-652/2396, 14-25=-652/2396

**WEBS** 4-18=0/267, 6-17=-611/324, 7-17=-607/276, 9-17=-872/2390, 9-15=-1882/751,  
10-15=-625/2182, 10-14=-2751/926, 12-14=-769/2612

**NOTES**

- 1) Wind: ASCE 7-05; 100mph; TCDL=4.5psf; BCDL=4.5psf; h=25ft; Cat. III; Exp C; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-05; Pf=30.0 psf (flat roof snow); Category III; Exp C; Fully Exp.; Ct=1, Lu=50-0-0
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) 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) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 500 lb down and 206 lb up at 14-1-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

Continued on page 2



August 17, 2012

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.**

Design valid for use only with Mitek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI1 Quality Criteria, D58-69 and BCSI Building Component



7777 Greenback Lane, Suite 109

Job	Truss	Truss Type	Qty	Ply	Lam-Wood System, Inc.	R35020083
B1207010	H06	HALF HIP TRUSS	2	1		
						Job Reference (optional)

Foxworth Galbraith Truss Co, Colorado Springs, CO 80907

7,250 s Aug 25 2011 MITek Industries, Inc. Fri Aug 17 12:05:28 2012 Page 2  
 ID:YyZh5RYd5kZk6NQeEMKkQcymyn4-PuBggtsR8lhPEfzL\_9DalZB5WO?w2waG0b4NyzymwM5

**NOTES**

12) 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) Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-11=-80, 11-12=-80, 2-22=-20, 22-23=-60, 23-24=-20, 24-25=-60, 13-25=-20

Concentrated Loads (lb)

Vert: 17=-500(F)

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**

Design valid for use only with Mitek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/AP1 Quality Criteria, DSI-89 and BCSI Building Component



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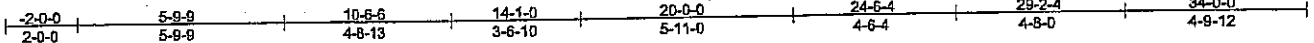
Job B1207010	Truss HG01	Truss Type HALF HIP TRUSS	Qty 2	Ply 3	Lam-Wood System, Inc.	R35020084
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Foxworth Galbraith Truss Co, Colorado Springs, CO 80907

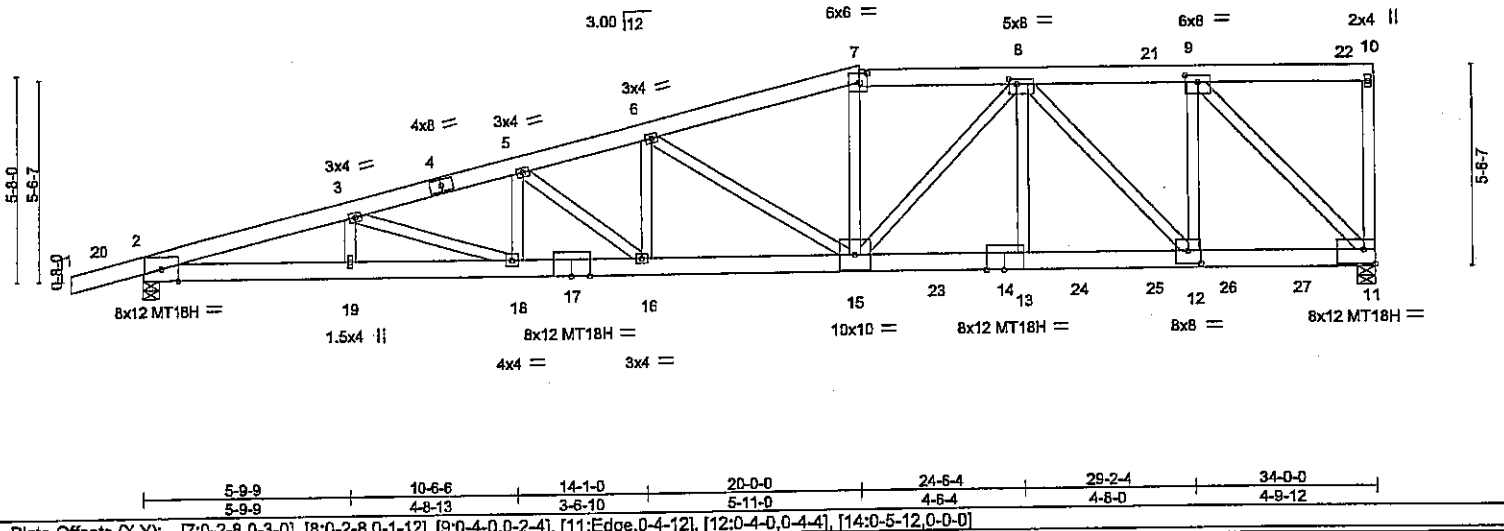
Job Reference (optional)

7,250 s Aug 25 2011 MITek Industries, Inc. Fri Aug 17 15:56:30 2012 Page 1

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Scale = 1:63.2



LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 30.0	2-0-0	TC 0.43	in (loc) l/def L/d	MT20	169/123
(Roof Snow=30.0)	Plates Increase 1.15	BC 0.74	Vert(LL) -0.47 16 >850 240	MT18H	169/123
TCDL 10.0	Lumber Increase 1.15	WB 0.96	Vert(TL) -0.83 16 >486 180		
BCLL 0.0	Rep Stress Incr NO	(Matrix)	Horz(TL) 0.22 11 n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007			Weight: 572 lb	FT = 0%

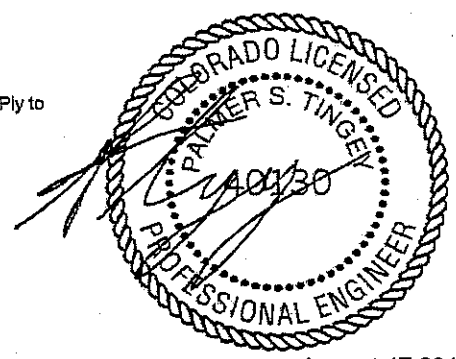
**LUMBER**  
TOP CHORD 2 X 6 SPF 2100F 1.8E  
BOT CHORD 2 X 6 SPF 2100F 1.8E  
WEBS 2 X 4 WW Stud/Std \*Except\*  
7-15,8-13,9-12: 2 X 4 SPF No.2  
8-15,8-12,9-11: 2 X 4 SPF 1650F 1.5E

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

**REACTIONS** (lb/size) 11=13184/0-5-8 (req. 0-7-5), 2=7561/0-5-8 (min. 0-4-6)  
Max Horz 2=324(LC 6)  
Max Uplift 11=4773(LC 5), 2=2874(LC 5)  
Max Grav 11=13368(LC 12), 2=8027(LC 13)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=25012/8642, 3-4=26422/8298, 4-5=26360/9304, 5-6=26109/9292, 6-7=24968/8975, 7-8=24088/8711, 8-21=11381/4159, 9-21=11381/4159  
BOT CHORD 2-19=8354/23847, 18-19=8354/23847, 17-18=9042/25611, 16-17=9042/25611, 15-16=8961/25292, 15-23=6846/19184, 14-23=6846/19184, 13-14=6846/19184, 13-24=6846/19184, 24-25=6846/19184, 12-25=6846/19184, 12-26=4044/11381, 26-27=4044/11381, 11-27=4044/11381  
WEBS 3-19=268/193, 3-18=798/2325, 5-18=471/225, 5-16=408/188, 6-16=159/665, 6-15=1271/425, 7-15=1900/5533, 8-15=2518/7390, 8-13=984/2955, 8-12=11718/4205, 9-12=4133/11752, 9-11=16750/6005

- NOTES**
- Special connection required to distribute web loads equally between all plies.
  - 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2 X 6 - 2 rows at 0-7-0 oc, 2 X 4 - 1 row at 0-9-0 oc.  
Bottom chords connected as follows: 2 X 6 - 3 rows at 0-4-0 oc.  
Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc, Except member 15-7 2 X 4 - 2 rows at 0-4-0 oc.
  - 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.
  - Wind: ASCE 7-05; 100mph; TCDL=4.5psf; BCDL=4.5psf; h=25ft; Cat. III; Exp C; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
  - TCLL: ASCE 7-05; Pf=30.0 psf (flat roof snow); Category III; Exp C; Fully Exp.; Ct=1, Lu=50-0-0
  - Unbalanced snow loads have been considered for this design.
  - This truss has been designed for greater of min roof live load of 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
  - Provide adequate drainage to prevent water ponding.
  - All plates are MT20 plates unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



Continued on page 2.

August 17, 2012

Job	Truss	Truss Type	Qty	Ply	Lam-Wood System, Inc.	R35020084
B1207010	HG01	HALF HIP TRUSS	2	3	Job Reference (optional)	

Foxworth Galbreith Truss Co, Colorado Springs, CO 80907

7.250 s Aug 26 2011 MITek Industries, Inc. Fri Aug 17 15:56:30 2012 Page 2  
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**NOTES**

- 11) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 12) WARNING: Required bearing size at joint(s) 11 greater than input bearing size.
- 13) Provide metal plate or equivalent at bearing(s) 10 to support reaction shown.
- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4773 lb uplift at joint 11 and 2874 lb uplift at joint 2.
- 15) 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.
- 16) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 17) Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 22-0-12 from the left end to 32-0-12 to connect truss(es) J10 (1 ply 2 X 4 SPF) to back face of bottom chord.
- 18) Fill all nail holes where hanger is in contact with lumber.
- 19) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 500 lb down and 206 lb up at 14-1-0, and 9448 lb down and 3314 lb up at 20-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S) Standard**

- 1) Snow: Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-7=-80, 7-10=-80, 2-11=-20  
 Concentrated Loads (lb)  
 Vert: 16=-500(F) 15=-9448(B) 14=-1209(B) 23=-1209(B) 24=-1209(B) 25=-1209(B) 26=-1209(B) 27=-1209(B)

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**

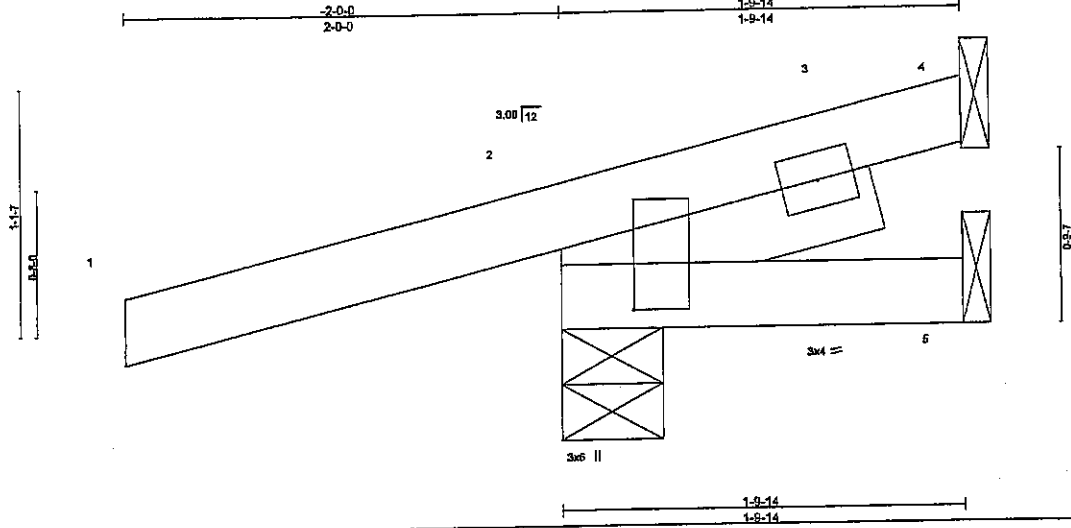
Design valid for use only with Mitek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



7777 Greenback Lane, Suite 109

Job B1207010	Truss J01	Truss Type JACK-OPEN TRUSS	Qty 4	Ply 1	Lam-Wood System, Inc. R35020085
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7.250 s Aug 25 2011 MITek Industries, Inc. Fri Aug 17 12:05:31 2012 Page 1  
 Foxworth Galbraith Truss Co, Colorado Springs, CO 80907  
 ID:YyZh5RYd5kZk6NQeEMKKQcymyn4-qTtoJwJRg3\_57iwfHmHNCpmmcC2FVoilZJ1ZlymwM2



Scale = 1:10.4

Plate Offsets (X,Y): [2:0-2-8-0-3-15]									
<b>LOADING (psf)</b>	<b>SPACING</b> 2-0-0	<b>CSI</b>	<b>DEFL</b> in (loc)	<b>I/defl</b>	<b>L/d</b>	<b>PLATES</b>	<b>GRIP</b>		
TCLL 30.0 (Roof Snow=30.0)	Plates Increase 1.15	TC 0.30	Vert(LL) -0.00	2 >999	240	MT20	197/144		
TCDL 10.0	Lumber Increase 1.15	BC 0.03	Vert(TL) -0.00	2-5 >999	180				
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) -0.00	4 n/a	n/a				
BCDL 10.0	Code IRC2009/TPI2007	(Matrix)				Weight: 8 lb		FT = 0%	

**LUMBER**  
 TOP CHORD 2 X 4 SPF No.2  
 BOT CHORD 2 X 4 SPF No.2  
 SLIDER Left 2 X 4 SPF No.2 1-5-9

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 1-9-14 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** (lb/size) 2=338/0-5-8 (min. 0-1-8), 5=18/Mechanical, 4=-16/Mechanical  
 Max Horz2=59(LC 5)  
 Max Uplift2=256(LC 5), 4=-70(LC 11)  
 Max Grav2=344(LC 2), 5=36(LC 4), 4=26(LC 5)

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

- NOTES**
- 1) Wind: ASCE 7-05; 100mph; TCDL=4.5psf; BCDL=4.5psf; h=25ft; Cat. III; Exp C; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
  - 2) TCLL: ASCE 7-05; Pf=30.0 psf (flat roof snow); Category III; Exp C; Fully Exp.; Ct= 1
  - 3) Unbalanced snow loads have been considered for this design.
  - 4) This truss has been designed for greater of min roof live load of 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
  - 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) Refer to girder(s) for truss to truss connections.
  - 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) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

**LOAD CASE(S)** Standard



August 17, 2012

Job B1207010	Truss J02	Truss Type JACK-OPEN TRUSS	Qty 4	Ply 1	Lam-Wood System, Inc. R35020086
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7,250 s Aug 25 2011 MiTek Industries, Inc. Fri Aug 17 12:05:31 2012 Page 1  
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Foxworth Galbraith Truss Co, Colorado Springs, CO 80907

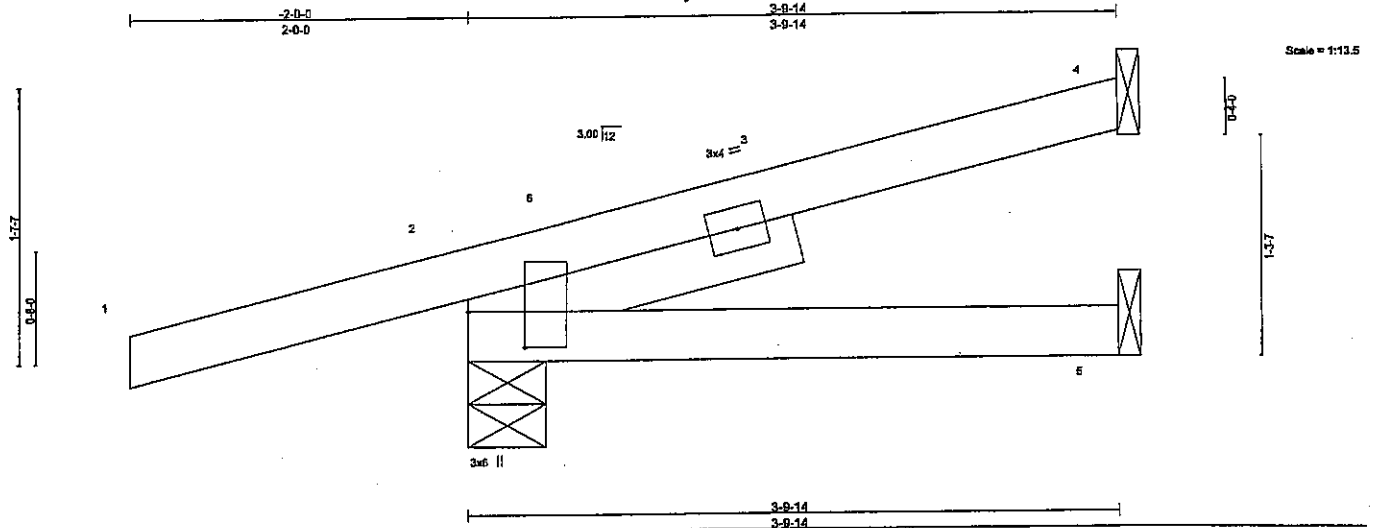


Plate Offsets (X,Y): [2:0-2-8,0-3-15]

<b>LOADING (psf)</b> TCLL 30.0 (Roof Snow=30.0) TCDL 10.0 BCLL 0.0 BCDL 10.0	<b>SPACING</b> 2-0-0 Plates Increase 1.15 Lumber Increase 1.15 Rep Stress Incr YES Code IRC2009/TPI2007	<b>CSI</b> TC 0.30 BC 0.14 WB 0.00 (Matrix)	<b>DEFL</b> in (loc) l/defl L/d Vert(LL) -0.01 2-5 >999 240 Vert(TL) -0.03 2-5 >999 180 Horz(TL) 0.00 4 n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 197/144  Weight: 14 lb FT = 0%
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**LUMBER**  
 TOP CHORD 2 X 4 SPF No.2  
 BOT CHORD 2 X 4 SPF No.2  
 SLIDER Left 2 X 4 SPF No.2 1-11-14

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 3-9-14 oc purins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

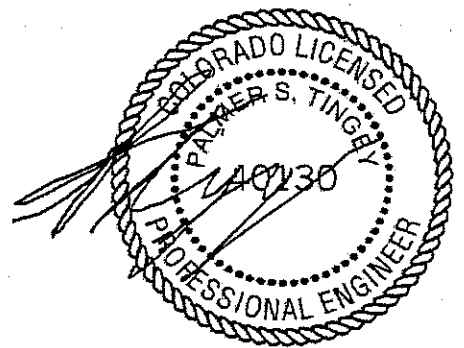
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer installation guide.

**REACTIONS** (lb/size) 4=108/Mechanical, 2=391/0-5-8 (min. 0-1-8), 5=38/Mechanical  
 Max Horz2=88(LC 5)  
 Max Uplift4=68(LC 5), 2=-251(LC 5)  
 Max Grav4=129(LC 2), 2=405(LC 2), 5=75(LC 4)

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

- NOTES**
- 1) Wind: ASCE 7-05; 100mph; TCDL=4.5psf; BCDL=4.5psf; h=25ft; Cat. III; Exp C; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
  - 2) TCLL: ASCE 7-05; Pf=30.0 psf (flat roof snow); Category III; Exp C; Fully Exp.; Ct= 1
  - 3) Unbalanced snow loads have been considered for this design.
  - 4) This truss has been designed for greater of min roof live load of 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
  - 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) Refer to girder(s) for truss to truss connections.
  - 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) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

**LOAD CASE(S)** Standard



August 17, 2012

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**  
 Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



Job B1207010	Truss J03	Truss Type JACK-OPEN TRUSS	Qty 4	Ply 1	Lam-Wood System, Inc. R35020087
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Foxworth Galbraith Truss Co, Colorado Springs, CO 80907

7.250 s Aug 25 2011 MTEK Industries, Inc. Fri Aug 17 12:05:32 2012 Page 1

ID:YyZh5RYd5kZk6NQeEMKKQcymyn4-llRAWFwxB\_BriHH7D7HWvPMrF0TB\_y2swD2a5kymwM1

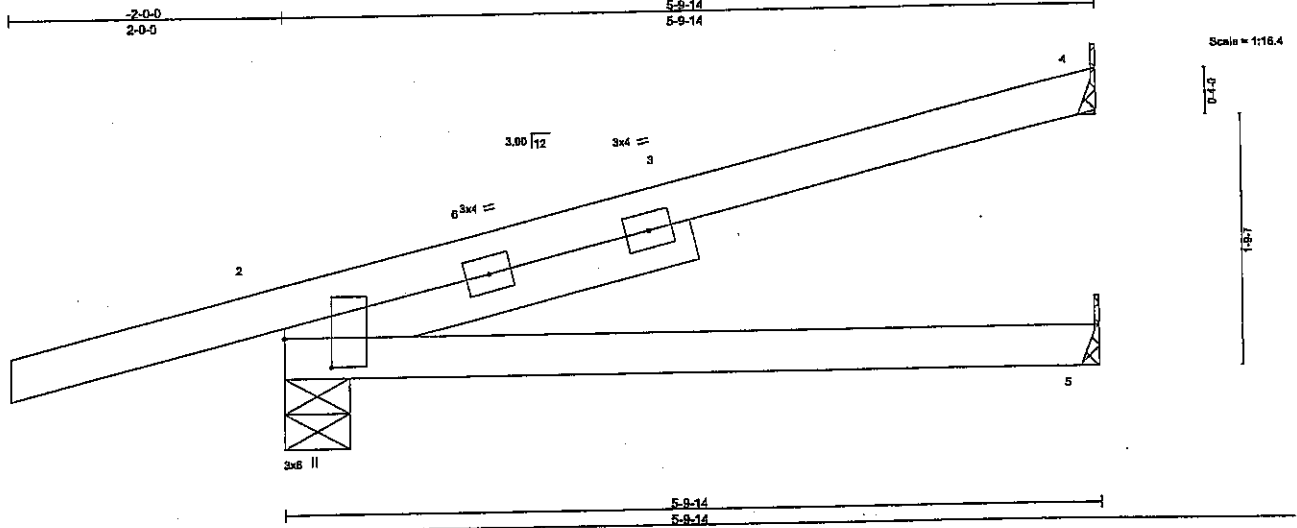


Plate Offsets (X,Y): [2-0-2-8,0-3-15]

<b>LOADING (psf)</b>	<b>SPACING</b> 2-0-0	<b>CSI</b>	<b>DEFL</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 30.0 (Roof Snow=30.0)	Plates Increase 1.15	TC 0.70	Vert(LL) -0.07 2-5 >999 240	MT20	197/144
TCDL 10.0	Lumber Increase 1.15	BC 0.35	Vert(TL) -0.17 2-5 >419 180		
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(TL) 0.02 4 n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007	(Matrix)		Weight: 19 lb	FT = 0%

**LUMBER**  
TOP CHORD 2 X 4 SPF No.2  
BOT CHORD 2 X 4 SPF No.2  
SLIDER Left 2 X 4 SPF No.2 3-0-4

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 5-9-14 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

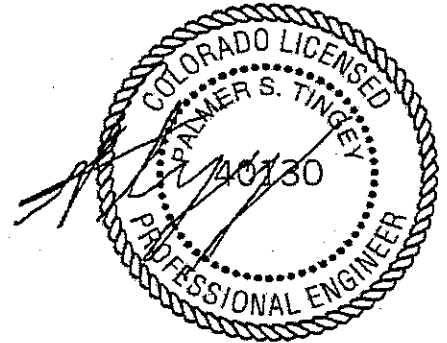
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** (lb/size) 4=203/Mechanical, 2=476/0-5-8 (min. 0-1-8), 5=58/Mechanical  
Max Horz2=118(LC 5)  
Max Uplift4=135(LC 5), 2=275(LC 5)  
Max Grav4=245(LC 2), 2=501(LC 2), 5=115(LC 4)

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

- NOTES**
- 1) Wind: ASCE 7-05; 100mph; TCDL=4.5psf; BCDL=4.5psf; h=25ft; Cat. III; Exp C; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
  - 2) TCLL: ASCE 7-05; Pf=30.0 psf (flat roof snow); Category III; Exp C; Fully Exp.; Cf= 1
  - 3) Unbalanced snow loads have been considered for this design.
  - 4) This truss has been designed for greater of min roof live load of 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
  - 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) Refer to girder(s) for truss to truss connections.
  - 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) \*Semi-rigid pitchbreaks including heels\* Member end fixity model was used in the analysis and design of this truss.

**LOAD CASE(S)** Standard



August 17, 2012

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**  
Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI1 Quality Criteria, D58-89 and 8CSI Building Component



7777 Greenback Lane, Suite 109

Job B1207010	Truss J04	Truss Type JACK-CLOSED TRUSS	Qty 4	Ply 1	Lam-Wood System, Inc. Job Reference (optional)	R35020088
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Foxworth Galbraith Truss Co, Colorado Springs, CO 80907

7,250 s Aug 25 2011 MITek Industries, Inc. Fri Aug 17 12:05:33 2012 Page 1  
ID:YyZh5RYd5kZk6NQeEMKKQcymyn4-ms7ZjwZylJIKRsJniolSdvydPmJJ179to8dAymwM0

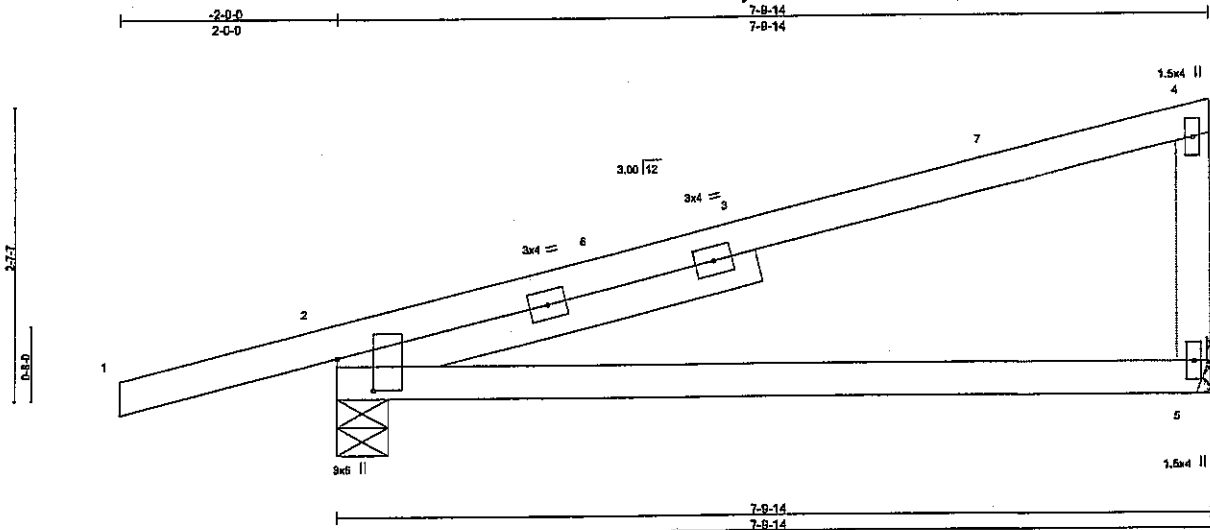


Plate Offsets (X,Y): [2:0-3-6,0-3-15]

<b>LOADING (psf)</b>	<b>SPACING</b> 2-0-0	<b>CSI</b>	<b>DEFL</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 30.0 (Roof Snow=30.0)	Plates Increase 1.15	TC 0.92	Vert(LL) -0.19 2-5 >474 240	MT20	169/123
TCDL 10.0	Lumber Increase 1.15	BC 0.53	Vert(TL) -0.49 2-5 >190 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) 0.00 5 n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007	(Matrix)		Weight: 27 lb	FT = 0%

**LUMBER**

TOP CHORD 2 X 4 SPF 2100F 1.8E  
BOT CHORD 2 X 4 SPF 1650F 1.5E  
WEBS 2 X 4 WW Stud/Std  
SLIDER Left 2 X 4 SPF No.2 3-10-13

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS (lb/size)** 5=363/Mechanical, 2=565/0-5-8 (min. 0-1-8)

Max Horz2=146(LC 6)  
Max Uplift5=-148(LC 5), 2=-315(LC 5)  
Max Grav5=429(LC 2), 2=598(LC 2)

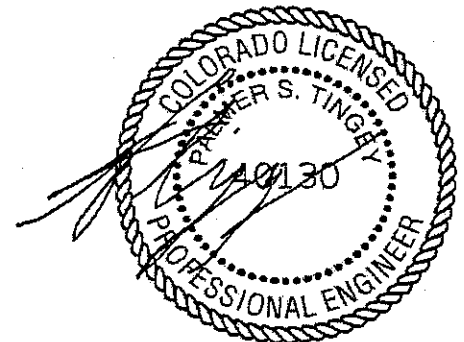
**FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.**

TOP CHORD 4-5=352/183

**NOTES**

- 1) Wind: ASCE 7-05; 100mph; TCDL=4.5psf; BCDL=4.5psf; h=25ft; Cat. III; Exp C; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-05; PF=30.0 psf (flat roof snow); Category III; Exp C; Fully Exp.; Ci= 1
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
- 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) Refer to girder(s) for truss to truss connections.
- 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) "Semi-rigid pitchbreaks including heels" Member end fixty model was used in the analysis and design of this truss.

LOAD CASE(S) Standard



August 17, 2012

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7478 BEFORE USE.**

Design valid for use only with MITek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI1 Quality Criteria, D58-89 and BCSI Building Component



7777 Greenback Lane, Suite 109



Job B1207010	Truss J05	Truss Type JACK-CLOSED TRUSS	Qty 4	Ply 1	Lam-Wood System, inc. R35020089
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Foxworth Galbraith Truss Co, Colorado Springs, CO 80907

7.250 s Aug 25 2011 MITek Industries, Inc. Fri Aug 17 12:05:33 2012 Page 1  
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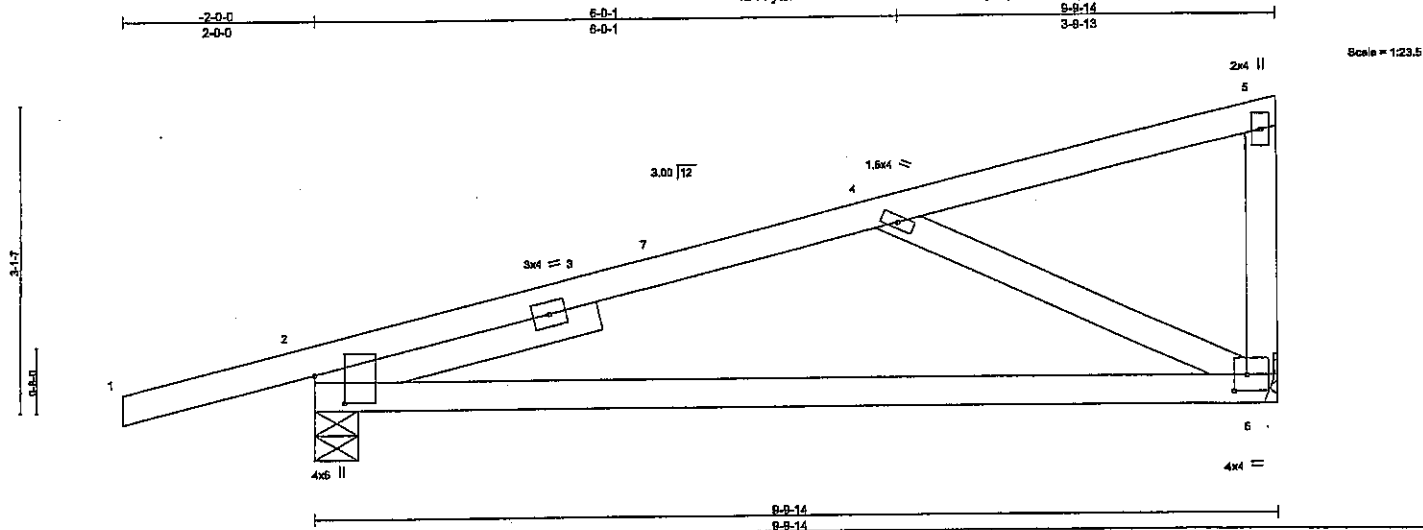


Plate Offsets (X,Y): [2;0-3-6;0-3-11], [6;0-1-8;0-2-0]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 30.0 (Roof Snow=30.0)	2-0-0 Plates Increase 1.15	TC 0.87	in (loc) l/defl L/d	MT20	169/123
TCDL 10.0	Lumber Increase 1.15	BC 0.46	Vert(LL) -0.23 2-6 >505 240		
BCLL 0.0	Rep Stress Incr YES	WB 0.39	Vert(TL) -0.58 2-6 >201 180		
BCDL 10.0	Code IRC2009/TPI2007	(Matrix)	Horz(TL) 0.01 6 n/a n/a	Weight: 35 lb	FT = 0%

**LUMBER**  
 TOP CHORD 2 X 4 SPF 1650F 1.5E  
 BOT CHORD 2 X 4 SPF 2100F 1.8E  
 WEBS 2 X 4 WW Stud/Std  
 SLIDER Left 2 X 4 SPF No.2 2-11-15

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

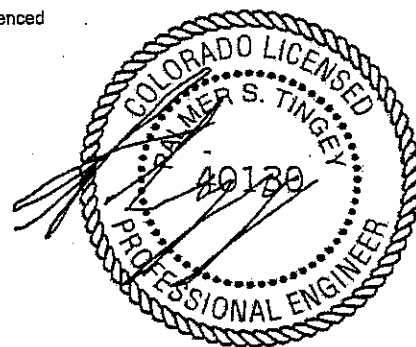
MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** (lb/size) 6=467/Mechanical, 2=660/0-5-8 (min. 0-1-8)  
 Max Horz2=178(LC 6)  
 Max Uplift6=-195(LC 5), 2=-351(LC 5)  
 Max Grav6=560(LC 2), 2=703(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-821/290, 3-7=-731/297, 4-7=-726/302  
 BOT CHORD 2-6=-292/709  
 WEBS 4-6=-739/375

- NOTES**
- 1) Wind: ASCE 7-05; 100mph; TCDL=4.5psf; BCDL=4.5psf; h=25ft; Cat. III; Exp C; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
  - 2) TCLL: ASCE 7-05; Pf=30.0 psf (flat roof snow); Category III; Exp C; Fully Exp.; Ct= 1
  - 3) Unbalanced snow loads have been considered for this design.
  - 4) This truss has been designed for greater of min roof live load of 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
  - 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) Refer to girder(s) for truss to truss connections.
  - 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) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

**LOAD CASE(S)** Standard



August 17, 2012

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**

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7777 Greenback Lane, Suite 109

Job B1207010	Truss J06	Truss Type JACK-CLOSED TRUSS	Qty 4	Ply 1	Lam-Wood System, Inc. Job Reference (optional)	R35020090
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Foxworth Galbraith Truss Co, Colorado Springs, CO 80907

7.250 s Aug 25 2011 MITek Industries, Inc. Fri Aug 17 12:05:34 2012 Page 1  
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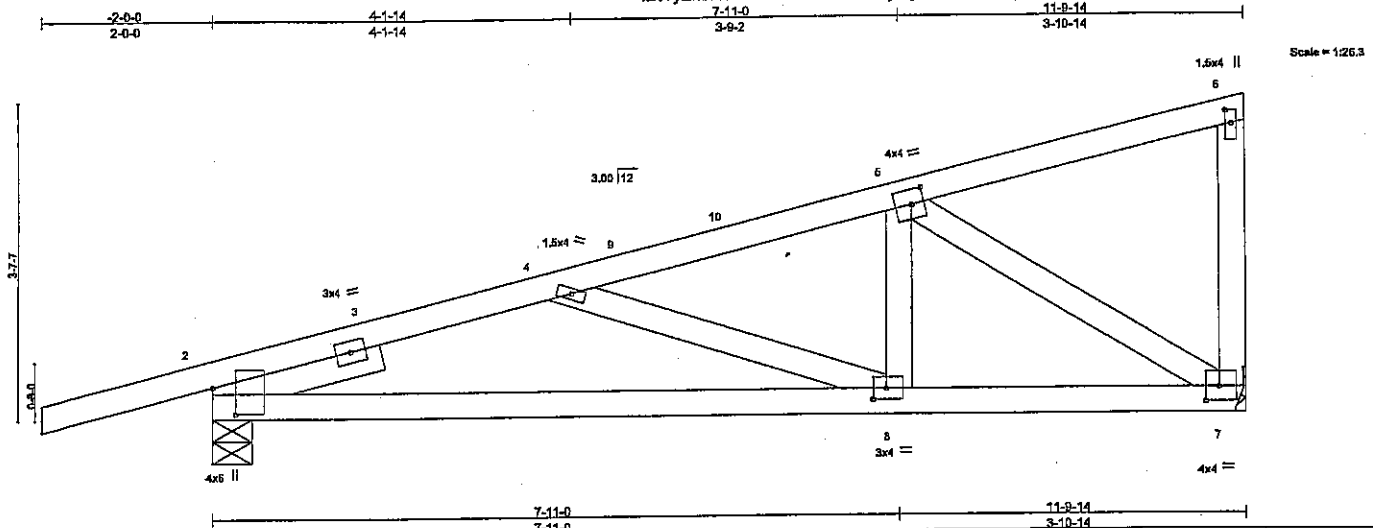


Plate Offsets (X,Y): [2:0-3-10,0-3-3], [5:0-1-12,0-2-0], [6:0-1-12,0-0-12], [7:0-1-12,0-2-0], [8:0-1-12,0-1-8]

<b>LOADING (psf)</b> TCLL 30.0 (Roof Snow=30.0) TCDL 10.0 BCLL 0.0 BCDL 10.0	<b>SPACING</b> 2-0-0 Plates Increase 1.15 Lumber Increase 1.15 Rep Stress Incr NO Code IRC2009/TPI2007	<b>CSI</b> TC 0.50 BC 0.63 WB 0.90 (Matrix)	<b>DEFL</b> in (loc) l/defl L/d Vert(LL) -0.11 2-8 >999 240 Vert(TL) -0.28 2-8 >498 180 Horz(TL) 0.03 7 n/a n/a	<b>PLATES</b> MT20 Weight: 45 lb	<b>GRIP</b> 169/123 FT = 0%
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**LUMBER**  
TOP CHORD 2 X 4 SPF No.2  
BOT CHORD 2 X 4 SPF No.2  
WEBS 2 X 4 WW Stud/Std  
SLIDER Left 2 X 4 SPF No.2 2-0-4

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 3-11-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 7-5-0 oc bracing.

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer installation guide.

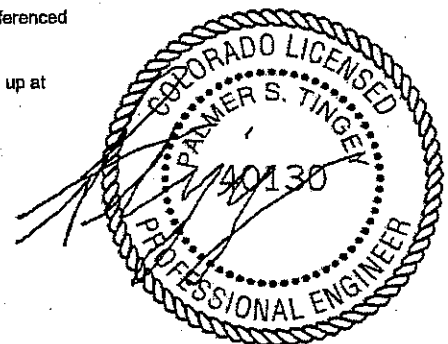
**REACTIONS** (lb/size) 7=909/Mechanical, 2=919/0-5-8 (min. 0-1-10)  
Max Horz2=209(LC 6)  
Max Uplift7=380(LC 5), 2=454(LC 5)  
Max Grav7=1030(LC 2), 2=969(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1736/622, 3-4=-1669/625, 4-9=-1439/479, 9-10=-1412/481, 5-10=-1399/486  
BOT CHORD 2-8=621/1577, 7-8=-455/1370  
WEBS 5-8=-192/694, 5-7=-1599/588

- NOTES**
- 1) Wind: ASCE 7-05; 100mph; TCDL=4.5psf; BCDL=4.5psf; h=25ft; Cat. III; Exp C; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
  - 2) TCLL: ASCE 7-05; Pf=30.0 psf (flat roof snow); Category III; Exp C; Fully Exp.; Ct= 1
  - 3) Unbalanced snow loads have been considered for this design.
  - 4) This truss has been designed for greater of min roof live load of 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
  - 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) Refer to girder(s) for truss to truss connections.
  - 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) "Semi-rigid pitchbreaks including heels" 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) 500 lb down and 206 lb up at 7-11-0 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) Snow: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-6=-80, 2-7=-20

Continued on page 2



August 17, 2012

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**  
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Job	Truss	Truss Type	Qty	Ply	Lam-Wood System, Inc.	R35020090
B1207010	J06	JACK-CLOSED TRUSS	4	1	Job Reference (optional)	

Foxworth Galbraith Truss Co, Colorado Springs, CO 80907

7.250 s Aug 25 2011 MITek Industries, Inc. Fri Aug 17 12:05:34 2012 Page 2  
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**LOAD CASE(S)** Standard  
 Concentrated Loads (lb)  
 Vert: 8=500(F)

**⚠ WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**

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7777 Greenback Lane, Suite 109

Job B1207010	Truss J07	Truss Type JACK-CLOSED TRUSS	Qty 4	Ply 1	Lam-Wood System, Inc. Job Reference (optional)	R35020091
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Foxworth Galbraith Truss Co, Colorado Springs, CO 80907

7.250 s Aug 25 2011 MITek Industries, Inc. Fri Aug 17 12:05:35 2012 Page 1

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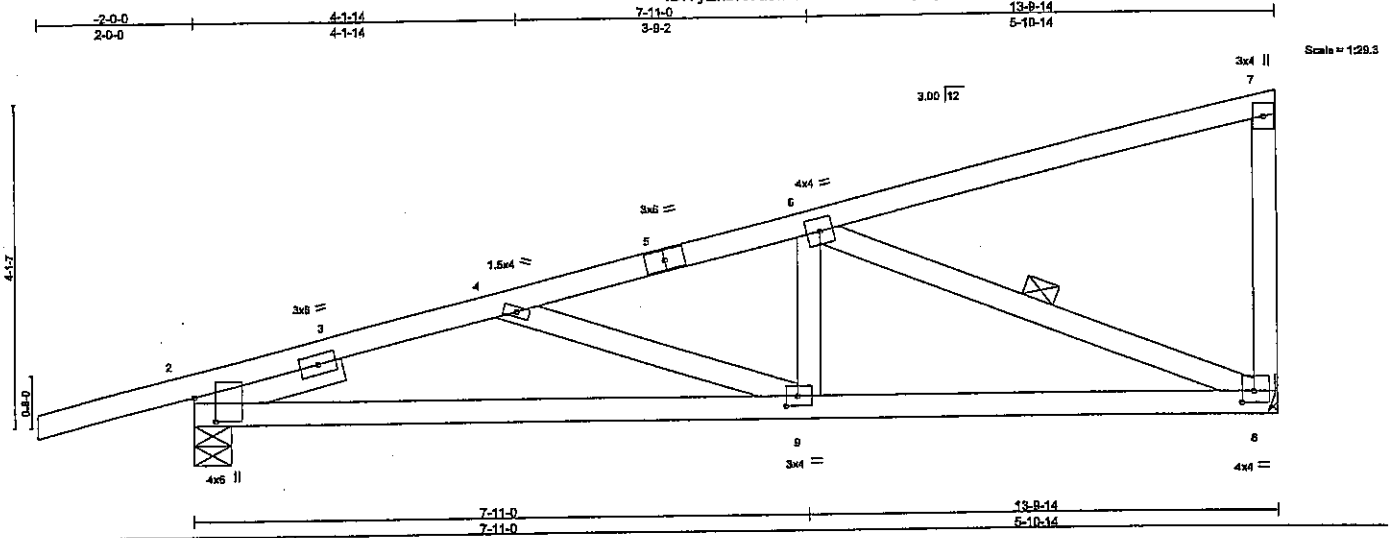


Plate Offsets (X,Y): [2:0-3-10,0-3-3], [8:0-1-12,0-1-12], [9:0-1-12,0-1-8]

<b>LOADING (psf)</b> TCLL 30.0 (Roof Snow=30.0) TCDL 10.0 BCLL 0.0 BCDL 10.0	<b>SPACING</b> Plates Increase 2-0-0 Lumber Increase 1.15 Rep Stress Incr NO Code IRC2009/TP12007	<b>CSI</b> TC 0.72 BC 0.73 WB 0.79 (Matrix)	<b>DEFL</b> in (loc) l/defi L/d Vert(LL) -0.11 2-9 >999 240 Vert(TL) -0.30 2-9 >549 180 Horz(TL) 0.05 8 n/a n/a	<b>PLATES</b> MT20  Weight: 52 lb	<b>GRIP</b> 169/123  FT = 0%
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**LUMBER**  
TOP CHORD 2 X 4 SPF No.2  
BOT CHORD 2 X 4 SPF No.2  
WEBS 2 X 4 WW Stud/Std  
SLIDER Left 2 X 4 SPF No.2 2-0-4

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 3-3-3 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 6-7-5 oc bracing.  
WEBS 1 Row at midpt 6-8

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

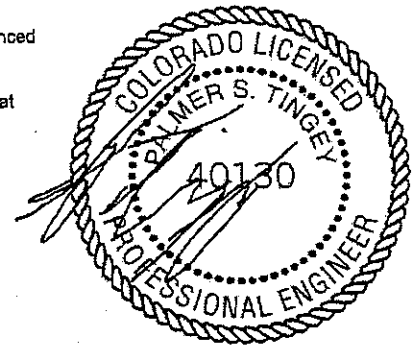
**REACTIONS** (lb/size) 8=962/Mechanical, 2=1066/0-5-8 (min. 0-1-14)  
Max Horz2=240(LC 6)  
Max Uplift8=404(LC 5), 2=512(LC 5)  
Max Grav8=1113(LC 2), 2=1124(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-2149/778, 3-4=-2092/780, 4-5=-2048/700, 5-6=-1976/706, 7-8=-266/121  
BOT CHORD 2-9=-781/1974, 8-9=-688/1977  
WEBS 6-9=-170/655, 6-8=-2097/792

- NOTES**
- 1) Wind: ASCE 7-05; 100mph; TCDL=4.5psf; BCDL=4.5psf; h=25ft; Cat. III; Exp C; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
  - 2) TCLL: ASCE 7-05; Pf=30.0 psf (flat roof snow); Category III; Exp C; Fully Exp.; Ct= 1
  - 3) Unbalanced snow loads have been considered for this design.
  - 4) This truss has been designed for greater of min roof live load of 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
  - 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) Refer to girder(s) for truss to truss connections.
  - 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) "Semi-rigid pitchbreaks including heels" 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) 500 lb down and 206 lb up at 7-11-0 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) Snow: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-7=-80, 2-8=-20

Continued on page 2



August 17, 2012

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.**  
Design valid for use only with MITek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



7777 Greenback Lane, Suite 109

Job	Truss	Truss Type	Qty	Ply	Lam-Wood System, Inc.	R35020091
B1207010	J07	JACK-CLOSED TRUSS	4	1	Job Reference (optional)	

Foxworth Galbraith Truss Co, Colorado Springs, CO 80907

7.250 s Aug 25 2011 MiTek Industries, Inc. Fri Aug 17 12:05:35 2012 Page 2  
 ID:YyZh5RYd5kZk6NQeEMKKQcymyn4-IE6J8GyqUvZPZk0iu7rDX2\_KBDP7B7RIIdBHEI3ymwM\_

LOAD CASE(S) Standard  
 Concentrated Loads (lb)  
 Vert: 9=500(F)

**⚠ WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**

Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



7777 Greenback Lane, Suite 109

Job B1207010	Truss J08	Truss Type JACK-CLOSED TRUSS	Qty 4	Ply 1	Lam-Wood System, Inc. Job Reference (optional)	R35020092
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Foxworth Galbrath Truss Co, Colorado Springs, CO 80907

7.250 s Aug 25 2011 MITek Industries, Inc. Fri Aug 17 12:05:36 2012 Page 1

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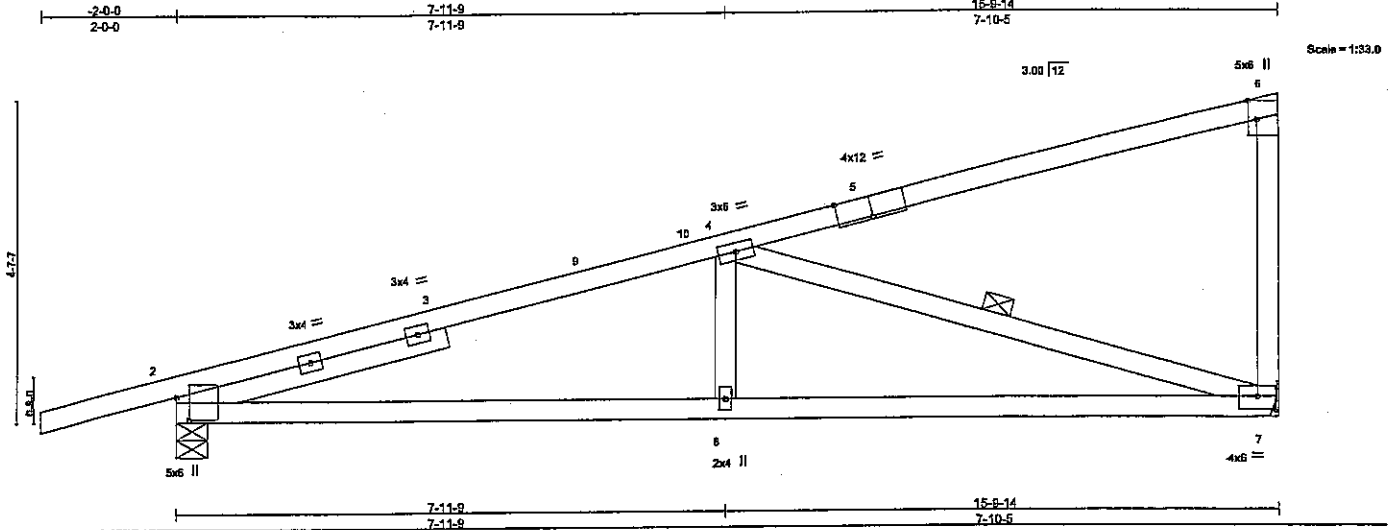


Plate Offsets (X,Y): [2:0-3-14.0-2-3], [5:0-6-0.Edge], [6:0-3-4.Edge], [7:0-3-0.0-2-4]								
<b>LOADING (psf)</b>	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>In (loc)</b>	<b>l/defl</b>	<b>L/d</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 30.0 (Roof Snow=30.0)	Plates Increase 1.15 Lumber Increase 1.15	TC 0.86 BC 0.84 WB 0.80	Vert(LL) -0.14 Vert(TL) -0.29 Horz(TL) 0.08	8 2-8 7	>999 >650 n/a	240 180 n/a	MT20	169/123
TCDL 10.0	Rep Stress Incr NO	(Matrix)					Weight: 59 lb	FT = 0%
BCLL 0.0 *	Code IRC2009/TPI2007							
BCDL 10.0								

**LUMBER**  
TOP CHORD 2 X 4 SPF 2100F 1.8E  
BOT CHORD 2 X 4 SPF No.2  
WEBS 2 X 4 SPF No.2 \*Except\*  
4-8: 2 X 4 WW Stud/Std  
SLIDER Left 2 X 4 SPF No.2 4-0-9

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 4-3-14 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 6-0-10 oc bracing.  
WEBS 1 Row at midpt 4-7

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

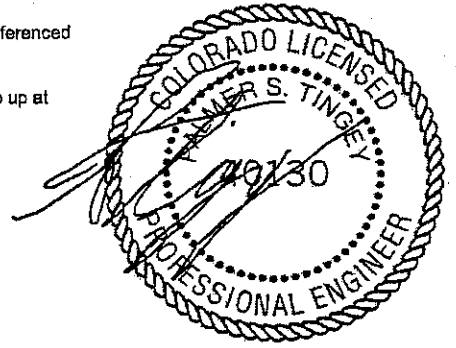
**REACTIONS** (lb/size) 7=1028/Mechanical, 2=1200/0-5-8 (min. 0-2-1)  
Max Horz2=271(LC 6)  
Max Up/lf7=-434(LC 5), 2=-564(LC 5)  
Max Grav7=1208(LC 2), 2=1263(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-2712/910, 3-9=-2572/915, 9-10=-2550/921, 4-10=-2531/922, 6-7=-362/166  
BOT CHORD 2-8=-919/2516, 7-8=-919/2516  
WEBS 4-8=-125/662, 4-7=-2561/1008

- NOTES**
- 1) Wind: ASCE 7-05; 100mph; TCDL=4.5psf; BCDL=4.5psf; h=25ft; Cat. III; Exp C; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
  - 2) TCLL: ASCE 7-05; Pf=30.0 psf (flat roof snow); Category III; Exp C; Fully Exp.; Ct= 1
  - 3) Unbalanced snow loads have been considered for this design.
  - 4) This truss has been designed for greater of min roof live load of 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
  - 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) Refer to girder(s) for truss to truss connections.
  - 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) "Semi-rigid pitchbreaks including heels" Member end fixty 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) 500 lb down and 205 lb up at 7-11-0 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) Snow: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-6=-80, 2-7=-20

Continued on page 2



August 17, 2012

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**  
Design valid for use only with Mitek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 Quality Criteria, D58-B9 and BCSI Building Component



Job B1207010	Truss JOB	Truss Type JACK-CLOSED TRUSS	Qty 4	Ply 1	Lam-Wood System, Inc. Job Reference (optional)	R35020092
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Foxworth Galbraith Truss Co, Colorado Springs, CO 80907

7.250 s Aug 25 2011 MITek Industries, Inc. Fri Aug 17 12:05:36 2012 Page 2  
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LOAD CASE(S) Standard  
Concentrated Loads (lb)  
Vert: 8=-500(F)

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.**

Design valid for use only with Mitek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



7777 Greenback Lane, Suite 109

Job B1207010	Truss J09	Truss Type JACK-CLOSED TRUSS	Qty 4	Ply 1	Lam-Wood System, Inc. Job Reference (optional)	R35020093
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Foxworth Galbrath Truss Co, Colorado Springs, CO 80807

7.250 s Aug 25 2011 MITek Industries, Inc. Fri Aug 17 12:05:36 2012 Page 1

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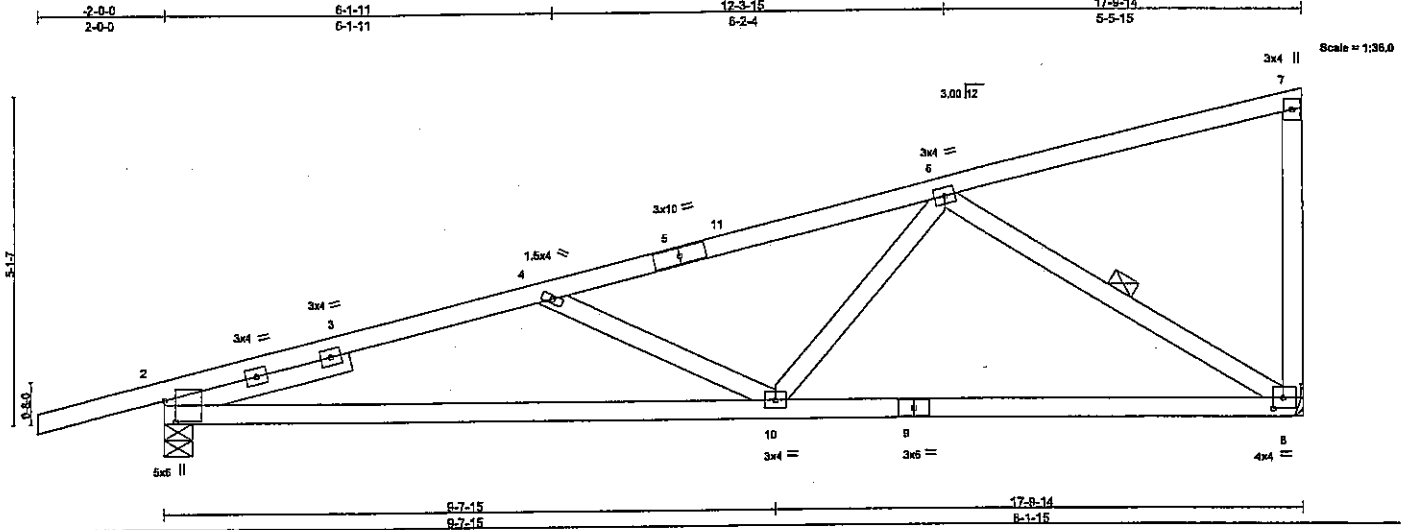


Plate Offsets (X,Y): [2:0-3-14,0-2-3], [8:0-1-12,0-2-0]

<b>LOADING (psf)</b> TCLL 30.0 (Roof Snow=30.0) TCDL 10.0 BCLL 0.0 * BCDL 10.0	<b>SPACING</b> 2-0-0 Plates Increase 1.15 Lumber Increase 1.15 Rep Stress Incr YES Code IRC2009/TPI2007	<b>CSI</b> TC 0.72 BC 0.81 WB 0.57 (Matrix)	<b>DEFL</b> in (loc) l/defl L/d Vert(LL) -0.20 2-10 >999 240 Vert(TL) -0.53 2-10 >403 180 Horz(TL) 0.06 8 n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 169/123  Weight: 66 lb FT = 0%
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**LUMBER**  
TOP CHORD 2 X 4 SPF No.2  
BOT CHORD 2 X 4 SPF No.2  
WEBS 2 X 4 WW Stud/Std  
SLIDER Left 2 X 4 SPF No.2 3-0-13

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 3-7-5 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 6-4-7 oc bracing.  
WEBS 1 Row at midpt 6-8

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer installation guide.

**REACTIONS** (lb/size) 8=875/Mechanical, 2=1053/0-5-8 (min. 0-1-14)  
Max Horz2=302(LC 6)  
Max Uplift8=373(LC 5), 2=501(LC 5)  
Max Grav8=1086(LC 2), 2=1122(LC 2)

**FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.**  
TOP CHORD 2-3=-2240/762, 3-4=-2159/795, 4-5=-1685/499, 5-11=-1626/501, 6-11=-1625/508  
BOT CHORD 2-10=-820/2066, 9-10=-402/1239, 8-9=-402/1239  
WEBS 4-10=-546/395, 6-10=-105/575, 6-8=-1451/562

- NOTES**
- 1) Wind: ASCE 7-05; 100mph; TCDL=4.5psf; BCDL=4.5psf; h=25ft; Cat. III; Exp C; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
  - 2) TCLL: ASCE 7-05; Pf=30.0 psf (flat roof snow); Category III; Exp C; Fully Exp.; Cf= 1
  - 3) Unbalanced snow loads have been considered for this design.
  - 4) This truss has been designed for greater of min roof live load of 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
  - 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) Refer to girder(s) for truss to truss connections.
  - 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) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

**LOAD CASE(S)** Standard



August 17, 2012

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.**

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7777 Greenback Lane, Suite 108



Job B1207010	Truss J10	Truss Type MONOPITCH TRUSS	Qty 14	Ply 1	Lam-Wood System, Inc. Job Reference (optional)	R35020094
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Foxworth Galbraith Truss Co, Colorado Springs, CO 80907

7.250 s Aug 25 2011 MITek Industries, Inc. Fri Aug 17 12:05:37 2012 Page 1  
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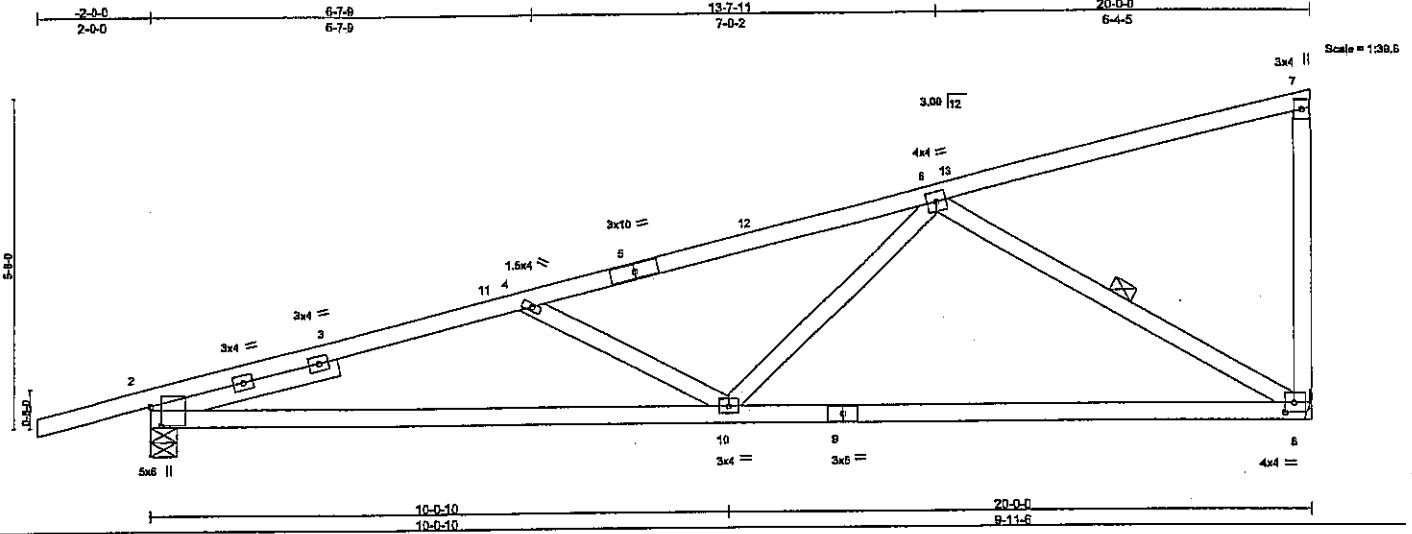


Plate Offsets (X,Y): [2:0-3-14,0-2-3], [8:0-1-12,0-2-0]

<b>LOADING (psf)</b> TCLL 30.0 (Roof Snow=30.0) TCDL 10.0 BCLL 0.0 * BCDL 10.0	<b>SPACING</b> 2-0-0 Plates Increase 1.15 Lumber Increase 1.15 Rep Stress Incr YES Code IRC2009/TPI2007	<b>CSI</b> TC 0.93 BC 0.98 WB 0.76 (Matrix)	<b>DEFL</b> in (loc) l/defl L/d Veri(LL) -0.23 8-10 >999 240 Veri(TL) -0.60 8-10 >400 180 Horz(TL) 0.07 8 n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 169/123  Weight: 73 lb FT = 0%
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**LUMBER**  
TOP CHORD 2 X 4 SPF No.2  
BOT CHORD 2 X 4 SPF No.2  
WEBS 2 X 4 WW Stud/Std  
SLIDER Left 2 X 4 SPF No.2 3-3-14

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.  
WEBS 1 Row at midpt 6-8

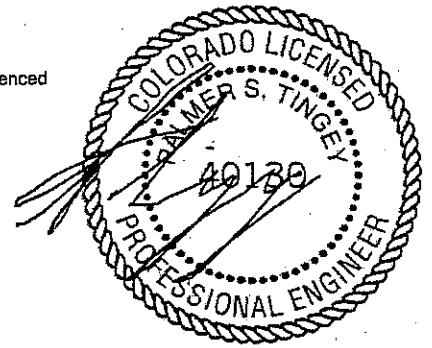
MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** (lb/size) 8=985/Mechanical, 2=1161/0-5-8 (min. 0-2-1)  
Max Horz2=336(LC 6)  
Max Uplift8=-421(LC 5), 2=-543(LC 5)  
Max Grav8=1229(LC 2), 2=1236(LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-2607/912, 3-11=-2522/926, 4-11=-2458/927, 4-5=-2038/615, 5-12=-1973/618,  
6-12=-1958/627, 7-8=-280/125  
BOT CHORD 2-10=-960/2417, 9-10=-485/1446, 8-9=-485/1446  
WEBS 4-10=-586/430, 6-10=-141/701, 6-8=-1661/660

- NOTES**
- 1) Wind: ASCE 7-05; 100mph; TCDL=4.5psf; BCDL=4.5psf; h=25ft; Cat. III; Exp C; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
  - 2) TCLL: ASCE 7-05; Pf=30.0 psf (flat roof snow); Category III; Exp C; Fully Exp.; Ct= 1
  - 3) Unbalanced snow loads have been considered for this design.
  - 4) This truss has been designed for greater of min roof live load of 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
  - 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) Refer to girder(s) for truss to truss connections.
  - 8) Provide metal plate or equivalent at bearing(s) 7 to support reaction shown.
  - 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) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

**LOAD CASE(S)** Standard



August 17, 2012

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.**

Design valid for use only with MITek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI1 Quality Criteria, D5B-89 and BCSI Building Component



7777 Greenback Lane, Suite 109

Job B1207010	Truss TD1	Truss Type MONOPITCH TRUSS	Qty 12	Ply 1	Lam-Wood System, Inc. Job Reference (optional)	R35020095
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Foxworth Galbraith Truss Co, Colorado Springs, CO 80907

7.250 s Aug 25 2011 MTEK Industries, Inc. Fri Aug 17 12:05:39 2012 Page 1

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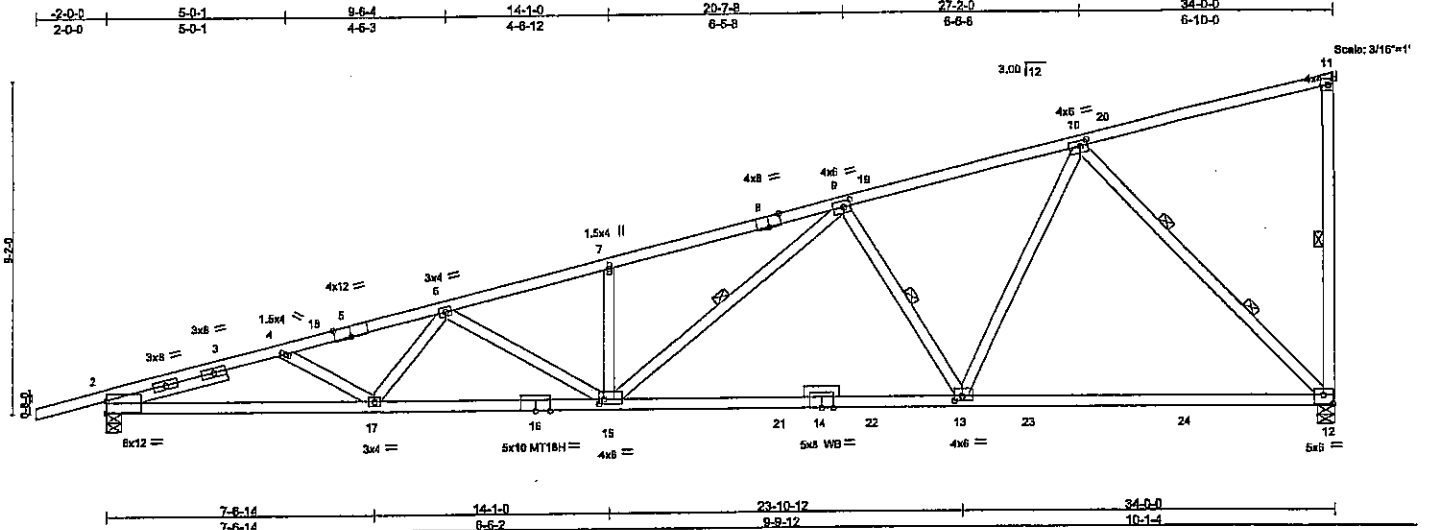


Plate Offsets (X.Y): [2:0-0-0-0-3-14], [5:0-6-0-Edge], [8:0-4-0-Edge], [9:0-2-8-0-2-0], [10:0-2-8-0-1-12], [12:0-3-0-0-3-0], [13:0-2-8-0-1-8], [15:0-1-12-0-1-8]					
<b>LOADING (psf)</b>	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 30.0 (Roof Snow=30.0)	2-0-0	TC 1.00	in (loc) l/def l/d	MT20	169/123
TCDL 10.0	Plates Increase 1.15	BC 0.92	Vert(LL) -0.47 13-15 >857 240	MT18H	197/144
BCLL 0.0	Lumber Increase 1.15	WB 0.97	Vert(TL) -0.95 13-15 >427 180		
BCDL 10.0	Rep Stress Incr NO	(Matrix)	Horz(TL) 0.20 12 n/a n/a		
	Code IRC2009/TPI2007			Weight: 145 lb	FT = 0%

**LUMBER**  
**TOP CHORD** 2 X 4 SPF 1650F 1.5E \*Except\*  
 1-5: 2 X 4 SPF 2100F 1.8E  
**BOT CHORD** 2 X 4 SPF 2100F 1.8E  
**WEBS** 2 X 4 WW Stud/Std \*Except\*  
 11-12,9-15,10-13,10-12: 2 X 4 SPF No.2  
**OTHERS** 2 X 4 WW Stud/Std  
**SLIDER** Left 2 X 4 SPF No.2 3-5-13

**BRACING**  
**TOP CHORD** Structural wood sheathing directly applied, except end verticals.  
**BOT CHORD** Rigid ceiling directly applied or 5-3-1 oc bracing.  
**WEBS** 1 Row at midpt 11-12, 9-15, 9-13  
 2 Rows at 1/3 pts 10-12

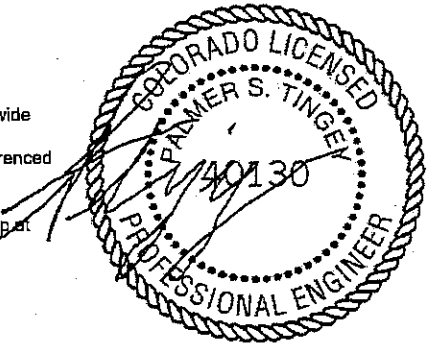
MTEK recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** (lb/size) 12=2100/0-5-8 (min. 0-4-4), 2=2221/0-5-8 (min. 0-3-13)  
 Max Horz2=554(LC 6)  
 Max Uplift12=810(LC 5), 2=936(LC 5)  
 Max Grav12=2564(LC 2), 2=2326(LC 2)

**FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.**  
**TOP CHORD** 2-3=5998/2135, 3-4=5898/2135, 4-18=6028/2095, 5-18=6008/2097, 5-6=5997/2103,  
 6-7=5528/1928, 7-8=5540/2006, 8-9=5425/2014, 9-19=2980/963, 10-19=2809/976,  
 11-12=348/138  
**BOT CHORD** 2-17=2211/5627, 16-17=2190/5831, 15-16=2190/5831, 15-21=1214/3650,  
 14-21=1214/3650, 14-22=1214/3650, 13-22=1214/3650, 13-23=542/1966,  
 23-24=542/1966, 12-24=542/1966  
**WEBS** 6-15=608/318, 7-15=433/296, 9-15=921/2223, 9-13=1649/788, 10-13=649/2030,  
 10-12=2843/990

- NOTES**
- 1) Wind: ASCE 7-05; 100mph; TCCL=4.5psf; BCDL=4.5psf; h=25ft; Cat. III; Exp C; enclosed; MWFRS (low-rise) gable end zone; cantilever: left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
  - 2) TCLL: ASCE 7-05; Pf=30.0 psf (flat roof snow); Category III; Exp C; Fully Exp.; Ctr= 1
  - 3) Unbalanced snow loads have been considered for this design.
  - 4) This truss has been designed for greater of min roof live load of 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
  - 5) 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, with BCDL = 10.0psf.
  - 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) "Semi-rigid pitchbreaks including heels" 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) 500 lb down and 206 lb up at 14-1-0 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  
 Continued on page 2



August 17, 2012

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.**  
 Design valid for use only with Mitek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 Quality Criteria, D58-89 and BCSI Building Component



Job B1207010	Truss T01	Truss Type MONOPITCH TRUSS	Qty 12	Ply 1	Lam-Wood System, Inc. R35020095
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Foxworth Galbraith Truss Co, Colorado Springs, CO 80907

7.250 s Aug 25 2011 MITek Industries, Inc. Fri Aug 17 12:05:39 2012 Page 2  
 ID:YyZh5RYd5kZk6ND6EMKKQcymyn4-b?Mq\_e7KYB4r2MJT7zvAiuBylqjx7uZuXpFSqqymwLw

**LOAD CASE(S) Standard**

1) Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-11=-80, 2-21=-20, 21-22=-60, 22-23=-20, 23-24=-60, 12-24=-20

Concentrated Loads (lb)

Vert: 15=-500(F)

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7478 BEFORE USE.**

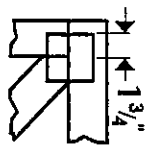
Design valid for use only with Mitek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI1 Quality Criteria, DSS-89 and BCS Building Component



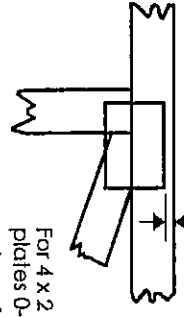
7777 Greenback Lane, Suite 109

# Symbols

## PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- $\frac{1}{4}$ " from outside edge of truss.



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

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

## PLATE SIZE

4 X 4

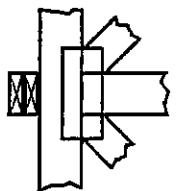
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



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

## BEARING

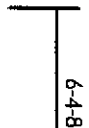


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

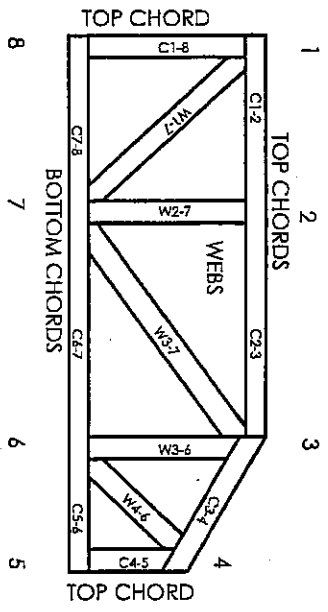
## Industry Standards:

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

# Numbering System



6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)



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

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

## PRODUCT CODE APPROVALS

ICC-ES Reports:

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

## Southern Pine Lumber designations are as follows:

SYP represents current/old values as published by AWC in the 2005/2012 NDS  
 SPP represents SPB proposed values as provided in SP1B submitted to ALSC dated Sept 15, 2011  
 SP represents ALSC approved/new values with effective date of June 1, 2012  
 (2x4 No 2 and lower grades and smaller sizes), and all MSR/MEL grades

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Mitek Engineering Reference Sheet: Mill 7473 rev. 01/18/2012

# General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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