

Job J1118-5039	Truss 2F06	Truss Type Floor	Qty 2	Ply 1	Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

Run: 8.120 s Jun 27 2017 Print: 8.120 s Jun 27 2017 MiTek Industries, Inc. Tue Dec 4 11:55:18 2018 Page 1  
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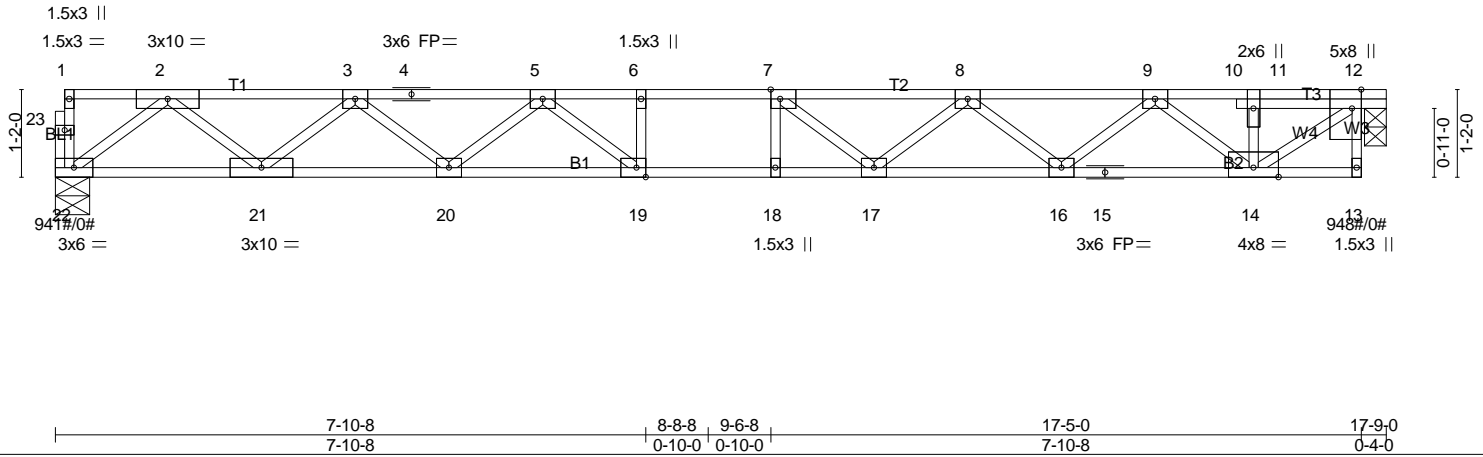
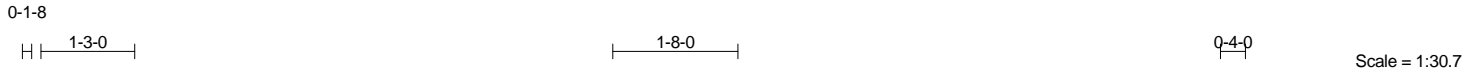


Plate Offsets (X,Y)-- [7:0-1-8,Edge], [12:0-3-0,Edge], [19:0-1-8,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.49	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.88	Vert(LL) -0.26 18 >788 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.69	Vert(CT) -0.36 18-19 >574 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 12 n/a n/a		
	Code IRC2015/TPI2014			Weight: 90 lb	FT = 20%F, 11%E

**LUMBER-**

TOP CHORD 2x4 SP No.1(flat)  
BOT CHORD 2x4 SP No.1(flat)  
WEBS 2x4 SP No.3(flat)

**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.** (size) 22=0-5-8 (min. 0-1-8), 12=0-3-8 (min. 0-1-8)  
Max Grav 22=941(LC 1), 12=948(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1992/0, 3-4=-3232/0, 4-5=-3232/0, 5-6=-3885/0, 6-7=-3885/0, 7-8=-3624/0,  
8-9=-2725/0, 9-10=-1175/0, 10-11=-1151/0, 11-12=-1175/0  
BOT CHORD 21-22=0/1177, 20-21=0/2772, 19-20=0/3669, 18-19=0/3885, 17-18=0/3885, 16-17=0/3339,  
15-16=0/2082, 14-15=0/2082  
WEBS 12-14=0/1443, 2-22=-1473/0, 2-21=0/1061, 3-21=-1016/0, 3-20=0/598, 5-20=-568/0,  
5-19=-98/591, 9-14=-1157/0, 9-16=0/838, 8-16=-799/0, 8-17=0/481, 7-17=-571/28

**NOTES-**

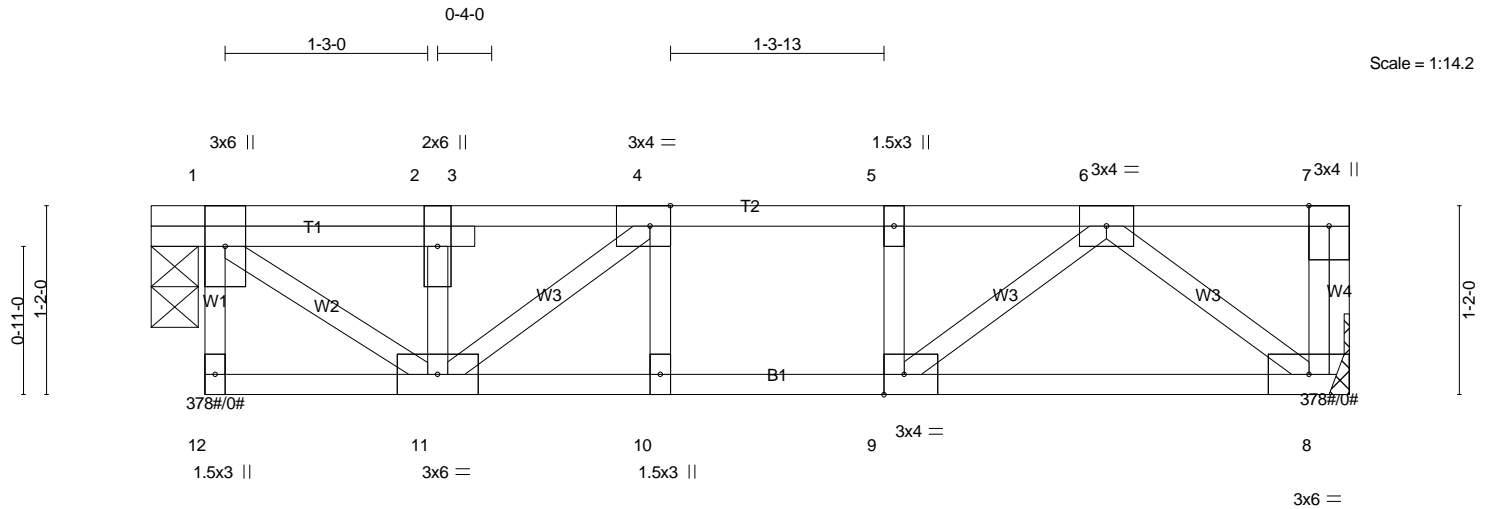
- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 7) CAUTION, Do not erect truss backwards.

**LOAD CASE(S)** Standard

Job J1118-5039	Truss 2F06A	Truss Type Floor	Qty 3	Ply 1	Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

Run: 8.120 s Jun 27 2017 Print: 8.120 s Jun 27 2017 MiTek Industries, Inc. Tue Dec 4 11:55:19 2018 Page 1  
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0-4-0 0-4-0	1-10-0 1-6-0	3-2-3 1-4-3	3-2-8 0-0-5	3-10-7 0-7-15	4-6-5 0-7-15	7-4-13 2-10-8
Plate Offsets (X,Y)-- [4:0-1-8,Edge], [9:0-1-8,Edge]						

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.12	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.16	Vert(LL) -0.02 8-9 >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.25	Vert(CT) -0.02 8-9 >999 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 8 n/a n/a		
	Code IRC2015/TPI2014			Weight: 41 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

**REACTIONS.** (size) 8=Mechanical, 1=0-3-8 (min. 0-1-8)  
Max Grav 8=378(LC 1), 1=378(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-424/0, 2-3=-426/0, 3-4=-424/0, 4-5=-611/0, 5-6=-611/0  
BOT CHORD 10-11=0/611, 9-10=0/611, 8-9=0/410  
WEBS 1-11=0/520, 6-8=-514/0, 6-9=0/290, 4-11=-299/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) Plates checked for a plus or minus 1 degree rotation about its center.
  - 3) Refer to girder(s) for truss to truss connections.
  - 4) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - 6) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
  - 7) CAUTION, Do not erect truss backwards.

**LOAD CASE(S)** Standard

Job J1118-5039	Truss 2F07	Truss Type Floor	Qty 2	Ply 1	Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

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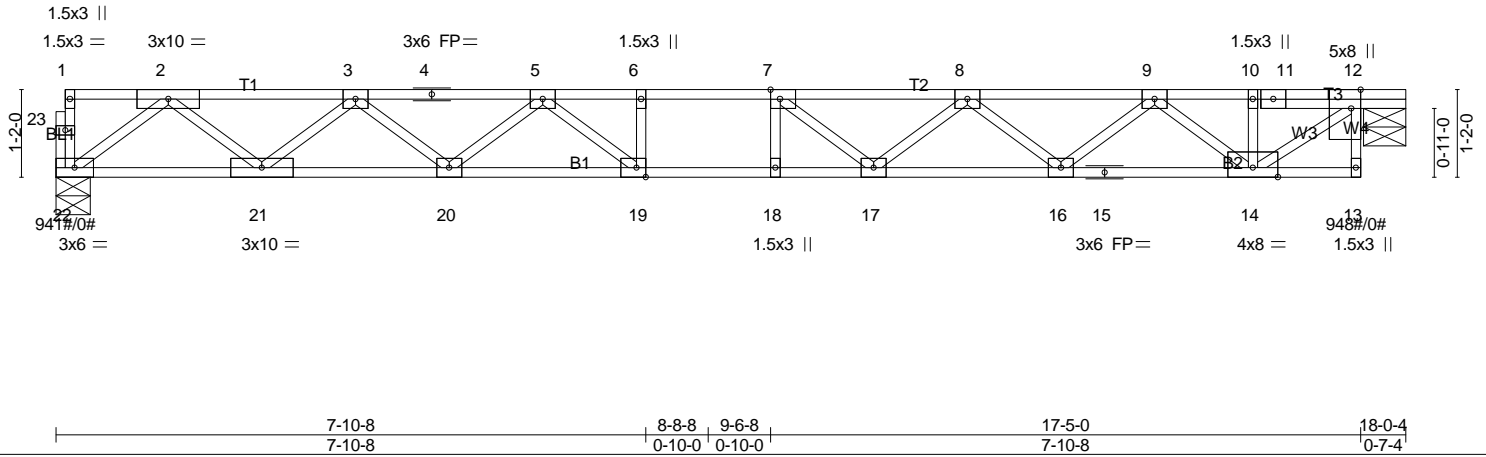
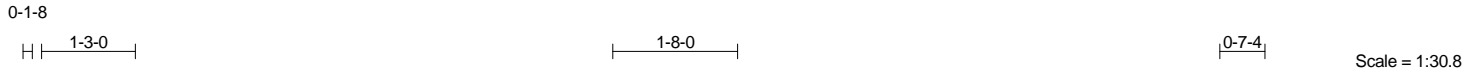


Plate Offsets (X,Y)-- [7:0-1-8,Edge], [12:0-3-0,Edge], [19:0-1-8,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.50	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.88	Vert(LL) -0.26 18 >788 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.67	Vert(CT) -0.36 18-19 >574 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 12 n/a n/a		
	Code IRC2015/TPI2014			Weight: 91 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

**REACTIONS.** (size) 22=0-5-8 (min. 0-1-8), 12=0-6-12 (min. 0-1-8)  
Max Grav 22=941(LC 1), 12=948(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1992/0, 3-4=-3232/0, 4-5=-3232/0, 5-6=-3886/0, 6-7=-3886/0, 7-8=-3624/0,  
8-9=-2726/0, 9-10=-1153/0, 10-11=-1153/0, 11-12=-1157/0  
BOT CHORD 21-22=0/1177, 20-21=0/2772, 19-20=0/3669, 18-19=0/3886, 17-18=0/3886, 16-17=0/3338,  
15-16=0/2085, 14-15=0/2085  
WEBS 12-14=0/1416, 2-22=-1473/0, 2-21=0/1061, 3-21=-1016/0, 3-20=0/598, 5-20=-568/0,  
5-19=-98/591, 9-14=-1190/0, 9-16=0/834, 8-16=-796/0, 8-17=0/482, 7-17=-571/28

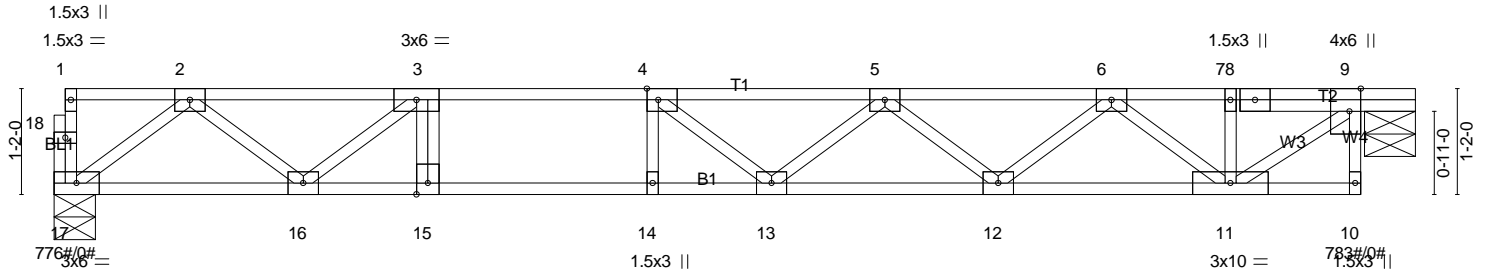
- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) All plates are 3x4 MT20 unless otherwise indicated.
  - 3) Plates checked for a plus or minus 1 degree rotation about its center.
  - 4) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - 6) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
  - 7) CAUTION, Do not erect truss backwards.

**LOAD CASE(S)** Standard

Job J1118-5039	Truss 2F08	Truss Type Floor	Qty 6	Ply 1	Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

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4-1-8	4-3-0	5-4-0	5-4-12	6-6-8	14-5-0	15-0-4
4-1-8	0-1-8	1-1-0	0-0-12	1-1-12	7-10-8	0-7-4

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [9:0-3-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.72	Vert(LL)	-0.26	13-14	>665	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.83	Vert(CT)	-0.34	13-14	>497		
BCLL 0.0	Lumber DOL 1.00	WB 0.55	Horz(CT)	-0.03	9	n/a		
BCDL 5.0	Rep Stress Incr YES	Matrix-S						
	Code IRC2015/TPI2014						Weight: 76 lb	FT = 20%F, 11%E

**LUMBER-**  
TOP CHORD 2x4 SP No.1(flat)  
BOT CHORD 2x4 SP 2400F 2.0E(flat)  
WEBS 2x4 SP No.3(flat)

**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.** (size) 17=0-5-8 (min. 0-1-8), 9=0-6-12 (min. 0-1-8)  
Max Grav 17=776(LC 1), 9=783(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1573/0, 3-4=-2447/0, 4-5=-2607/0, 5-6=-2106/0, 6-7=-940/0, 7-8=-940/0, 8-9=-944/0  
BOT CHORD 16-17=0/923, 15-16=0/2447, 14-15=0/2447, 13-14=0/2447, 12-13=0/2549, 11-12=0/1653  
WEBS 9-11=0/1154, 6-11=-909/0, 6-12=0/590, 5-12=-578/0, 4-13=-189/358, 4-14=-331/0, 2-17=-1154/0, 2-16=0/846, 3-16=-1097/0, 3-15=0/354

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) All plates are 3x4 MT20 unless otherwise indicated.
  - 3) Plates checked for a plus or minus 1 degree rotation about its center.
  - 4) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - 6) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
  - 7) CAUTION, Do not erect truss backwards.

**LOAD CASE(S)** Standard

Job J1118-5039	Truss 2F09	Truss Type Floor	Qty 1	Ply 1	Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

Run: 8.120 s Jun 27 2017 Print: 8.120 s Jun 27 2017 MiTek Industries, Inc. Tue Dec 4 11:55:23 2018 Page 1  
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0-1-8

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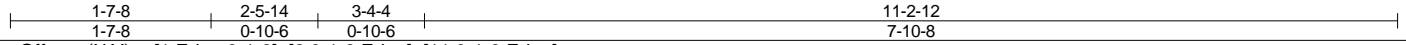
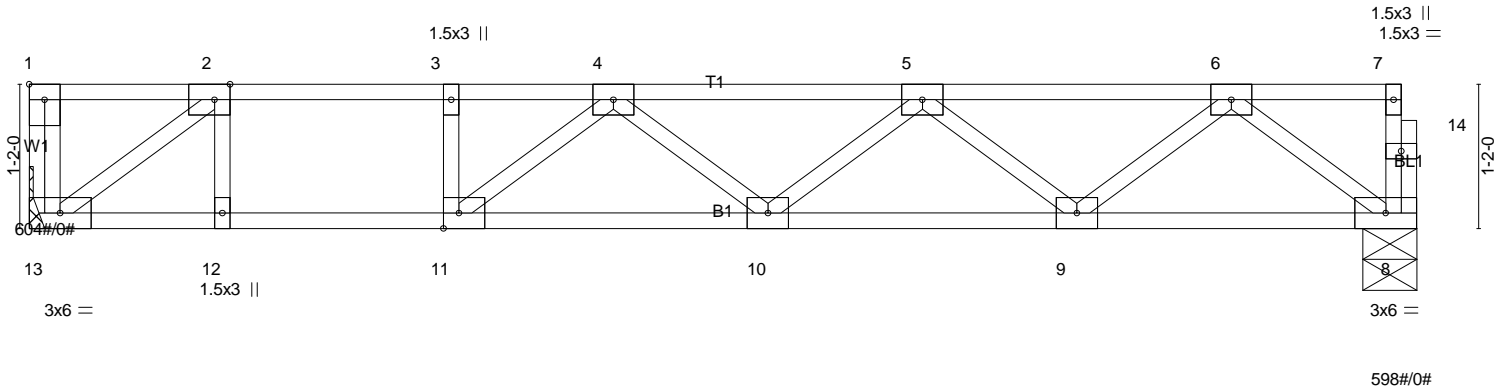


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [2:0-1-8,Edge], [11:0-1-8,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.89	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.93	Vert(LL) -0.20 10-11 >647 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.31	Vert(CT) -0.28 10-11 >471 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.02 8 n/a n/a		
	Code IRC2015/TPI2014			Weight: 57 lb	FT = 20%F, 11%E

**LUMBER-**  
TOP CHORD 2x4 SP No.1(flat)  
BOT CHORD 2x4 SP No.1(flat)  
WEBS 2x4 SP No.3(flat)

**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.

**REACTIONS.** (size) 13=Mechanical, 8=0-5-4 (min. 0-1-8)  
Max Grav 13=604(LC 1), 8=598(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1056/0, 3-4=-1056/0, 4-5=-1595/0, 5-6=-1118/0  
BOT CHORD 12-13=0/1056, 11-12=0/1056, 10-11=0/1559, 9-10=0/1504, 8-9=0/724  
WEBS 6-8=-905/0, 6-9=0/514, 5-9=-502/0, 4-11=-666/0, 2-13=-1304/0, 2-12=0/285

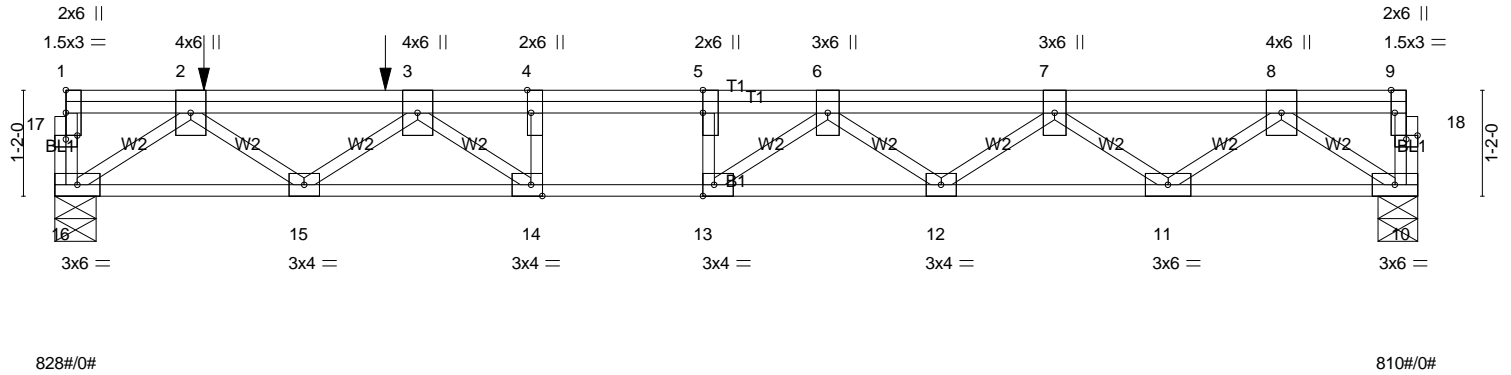
- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) All plates are 3x4 MT20 unless otherwise indicated.
  - 3) Plates checked for a plus or minus 1 degree rotation about its center.
  - 4) Refer to girder(s) for truss to truss connections.
  - 5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - 7) CAUTION, Do not erect truss backwards.

**LOAD CASE(S)** Standard

Job J1118-5039	Truss 2F10	Truss Type Floor Girder	Qty 1	Ply 1	Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

Run: 8.120 s Jun 27 2017 Print: 8.120 s Jun 27 2017 MiTek Industries, Inc. Tue Dec 4 11:55:25 2018 Page 1  
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5-4-8	6-3-2	7-1-12	15-0-4
5-4-8	0-10-10	0-10-10	7-10-8

Plate Offsets (X,Y)-- [4:0-3-0,Edge], [5:0-3-0,0-0-0], [9:0-3-0,Edge], [13:0-1-8,Edge], [14:0-1-8,Edge], [17:0-1-8,0-0-8], [18:0-1-8,0-0-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.27	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.69	Vert(LL) -0.14 12-13 >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.42	Vert(CT) -0.20 12-13 >907 360		
BCDL 5.0	Rep Stress Incr NO	Matrix-S	Horz(CT) 0.04 10 n/a n/a		
	Code IRC2015/TPI2014			Weight: 95 lb	FT = 20%F, 11%E

**LUMBER-**  
TOP CHORD 2x4 SP No.1(flat)  
BOT CHORD 2x4 SP No.1(flat)  
WEBS 2x4 SP No.3(flat)

**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.** (size) 16=0-5-8 (min. 0-1-8), 10=0-5-4 (min. 0-1-8)  
Max Grav 16=828(LC 1), 10=810(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-19=-1765/0, 3-19=-1765/0, 3-4=-2955/0, 4-5=-2955/0, 5-6=-2955/0, 6-7=-2746/0, 7-8=-1751/0  
BOT CHORD 15-16=0/1091, 14-15=0/2413, 13-14=0/2955, 12-13=0/3033, 11-12=0/2414, 10-11=0/1056  
WEBS 8-10=-1292/0, 8-11=0/883, 7-11=-842/0, 7-12=0/421, 6-12=-365/0, 6-13=-236/318, 2-16=-1337/0, 2-15=0/855, 3-15=-823/0, 3-14=0/749, 4-14=-394/0

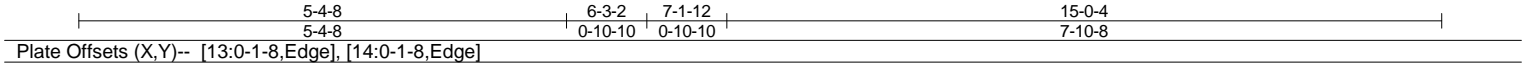
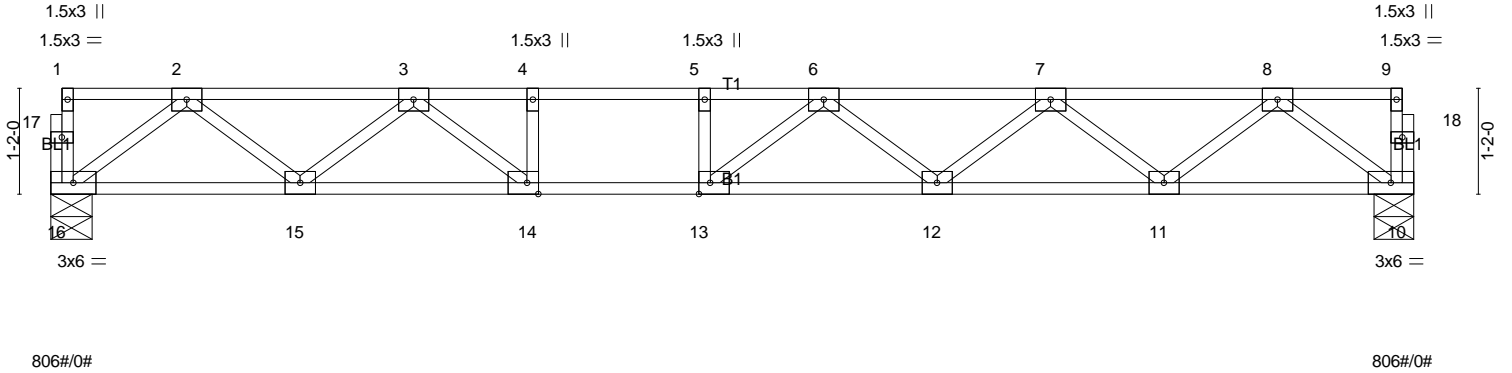
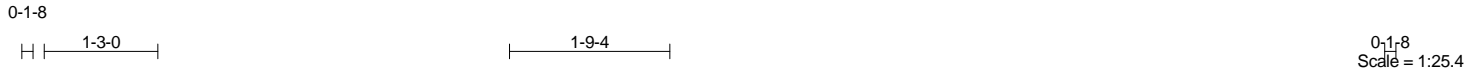
- NOTES-**
- Unbalanced floor live loads have been considered for this design.
  - Plates checked for a plus or minus 1 degree rotation about its center.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 93 lb down at 1-7-12, and 93 lb down at 3-7-12 on top 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  
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (plf)  
Vert: 10-16=-10, 1-9=-100  
Concentrated Loads (lb)  
Vert: 2=-13(B) 19=-13(B)

Job J1118-5039	Truss 2F11	Truss Type Floor	Qty 1	Ply 1	Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

Run: 8.120 s Jun 27 2017 Print: 8.120 s Jun 27 2017 MiTek Industries, Inc. Tue Dec 4 11:55:26 2018 Page 1  
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LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.66	Vert(LL)	-0.20 12-13 >900 480	MT20	244/190		
TCDL	10.0	Lumber DOL	1.00	BC	0.83	Vert(CT)	-0.27 12-13 >651 360				
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.04 10 n/a n/a				
BCDL	5.0	Code IRC2015/TPI2014		Matrix-S						Weight: 75 lb	FT = 20%F, 11%E

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1(flat)	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.1(flat)	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3(flat)		

**REACTIONS.** (size) 16=0-5-8 (min. 0-1-8), 10=0-5-4 (min. 0-1-8)  
Max Grav 16=806(LC 1), 10=806(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1630/0, 3-4=-2759/0, 4-5=-2759/0, 5-6=-2759/0, 6-7=-2590/0, 7-8=-1648/0  
BOT CHORD 15-16=0/1003, 14-15=0/2258, 13-14=0/2759, 12-13=0/2837, 11-12=0/2274, 10-11=0/998  
WEBS 8-10=-1249/0, 8-11=0/845, 7-11=-815/0, 7-12=0/412, 6-12=-322/0, 6-13=-298/288,  
2-16=-1256/0, 2-15=0/816, 3-15=-818/0, 3-14=0/795, 4-14=-350/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) All plates are 3x4 MT20 unless otherwise indicated.
  - 3) Plates checked for a plus or minus 1 degree rotation about its center.
  - 4) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

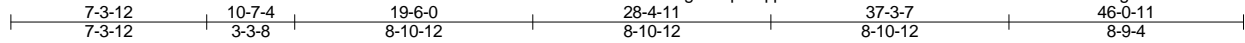
**LOAD CASE(S)** Standard

Job J1118-5039	Truss AGR01	Truss Type ROOF SPECIAL GIRDER	Qty 1	Ply 3	Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

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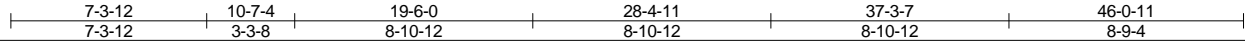
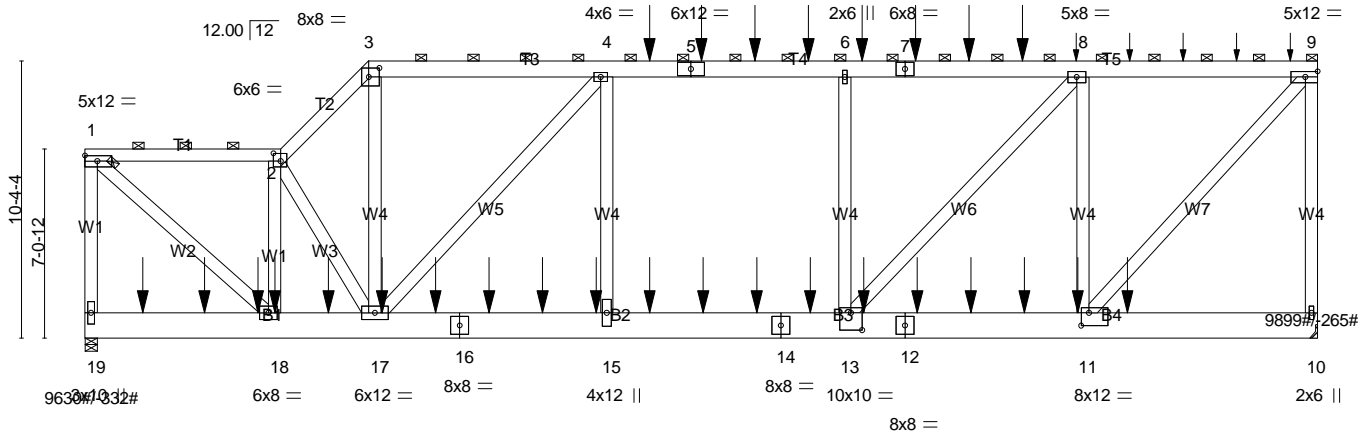


Plate Offsets (X,Y)-- [2:0-3-4,0-3-8], [3:0-4-12,0-4-0], [11:0-3-8,0-5-12], [13:0-5-0,0-7-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.49	Vert(LL) -0.17	13-15	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.20	Vert(CT) -0.31	13-15	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.78	Horz(CT) 0.04	10	n/a	n/a		
BCDL 25.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.07	15	>999	240		
							Weight: 1822 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x8 SP 2400F 2.0E \*Except\*  
T1,T2: 2x6 SP No.1  
BOT CHORD 2x12 SP 2400F 2.0E  
WEBS 2x6 SP No.1

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-2, 3-9.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 19=0-5-8 (min. 0-2-11), 10=Mechanical  
Max Horz 19=105(LC 8)  
Max Uplift 19=-332(LC 4), 10=-265(LC 5)  
Max Grav 19=9630(LC 2), 10=9899(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-19=-8810/264, 1-2=-9391/228, 2-3=-12769/359, 3-4=-9283/290, 4-20=-14525/401,  
5-20=-14525/401, 5-21=-14525/401, 21-22=-14525/401, 22-23=-14525/401,  
6-23=-14525/401, 6-24=-14525/401, 7-24=-14525/401, 7-25=-14525/401,  
25-26=-14525/401, 26-27=-14525/401, 8-27=-14525/401, 8-28=-8268/198,  
28-29=-8268/198, 29-30=-8268/198, 30-31=-8268/198, 9-31=-8268/198  
BOT CHORD 18-35=-311/9684, 17-35=-311/9684, 17-36=-401/14525, 36-37=-401/14525,  
16-37=-401/14525, 16-38=-401/14525, 38-39=-401/14525, 39-40=-401/14525,  
15-40=-401/14525, 15-41=-401/14525, 41-42=-401/14525, 42-43=-401/14525,  
14-43=-401/14525, 14-44=-401/14525, 13-44=-401/14525, 13-45=-198/8268,  
12-45=-198/8268, 12-46=-198/8268, 46-47=-198/8268, 47-48=-198/8268,  
11-48=-198/8268  
WEBS 1-18=-305/12704, 2-18=-8098/246, 2-17=-1260/112, 3-17=-156/8908, 4-17=-7893/217,  
4-15=-27/2699, 6-13=-4210/227, 8-13=-298/9198, 8-11=-6767/383, 9-10=-9532/297,  
9-11=-298/12426

- NOTES-**
- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x8 - 2 rows staggered at 0-7-0 oc.  
Bottom chords connected as follows: 2x12 - 2 rows staggered at 0-9-0 oc.  
Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 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.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - 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 with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 25.0psf.

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Job J1118-5039	Truss AGR01	Truss Type ROOF SPECIAL GIRDER	Qty 1	Ply 3	Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, Bob Lewis

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**NOTES-**

- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 332 lb uplift at joint 19 and 265 lb uplift at joint 10.
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2478 lb down and 197 lb up at 21-1-2, 1071 lb down and 71 lb up at 23-0-6, 1071 lb down and 71 lb up at 25-0-6, 1071 lb down and 71 lb up at 27-0-6, 1071 lb down and 71 lb up at 29-0-6, 55 lb down and 81 lb up at 31-0-6, 55 lb down and 81 lb up at 33-0-6, 55 lb down and 81 lb up at 35-0-6, 22 lb down and 168 lb up at 37-0-6, 22 lb down and 167 lb up at 39-0-6, 22 lb down and 167 lb up at 41-0-6, and 22 lb down and 167 lb up at 43-0-6, and 21 lb down and 167 lb up at 45-0-6 on top chord, and 373 lb down and 181 lb up at 2-1-15, 423 lb down at 4-5-9, 423 lb down at 6-5-9, 423 lb down at 7-1-3, 423 lb down at 9-1-3, 294 lb down at 11-1-3, 294 lb down at 13-1-3, 478 lb down at 15-1-3, 478 lb down at 17-1-3, 478 lb down at 19-1-3, 458 lb down at 21-1-3, 478 lb down at 23-1-3, 581 lb down at 25-1-3, 241 lb down at 27-1-3, 581 lb down at 29-1-3, 478 lb down at 31-1-3, 478 lb down at 33-1-3, 478 lb down at 35-1-3, and 478 lb down at 37-1-3, and 1072 lb down at 38-11-7 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-2=-60, 2-3=-60, 3-9=-60, 10-19=-50

Concentrated Loads (lb)

Vert: 18=-79(F) 17=-44(F) 11=-94(F) 20=-2478 21=-966(F) 22=-966(F) 23=-966(F) 24=-966(F) 25=-17(F) 26=-17(F) 27=-17(F) 32=-370(F) 33=-79(F) 34=-79(F) 35=-79(F) 37=-44(F) 38=-94(F) 39=-94(F) 40=-94(F) 41=-83(F) 42=-94(F) 43=-128(F) 44=-29(F) 45=-128(F) 46=-94(F) 47=-94(F) 48=-94(F) 50=-272(F)

Job J1118-5039	Truss AGR02	Truss Type ROOF SPECIAL GIRDER	Qty 1	Ply 3	Job Reference (optional)
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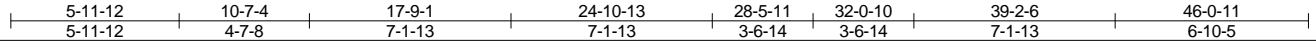
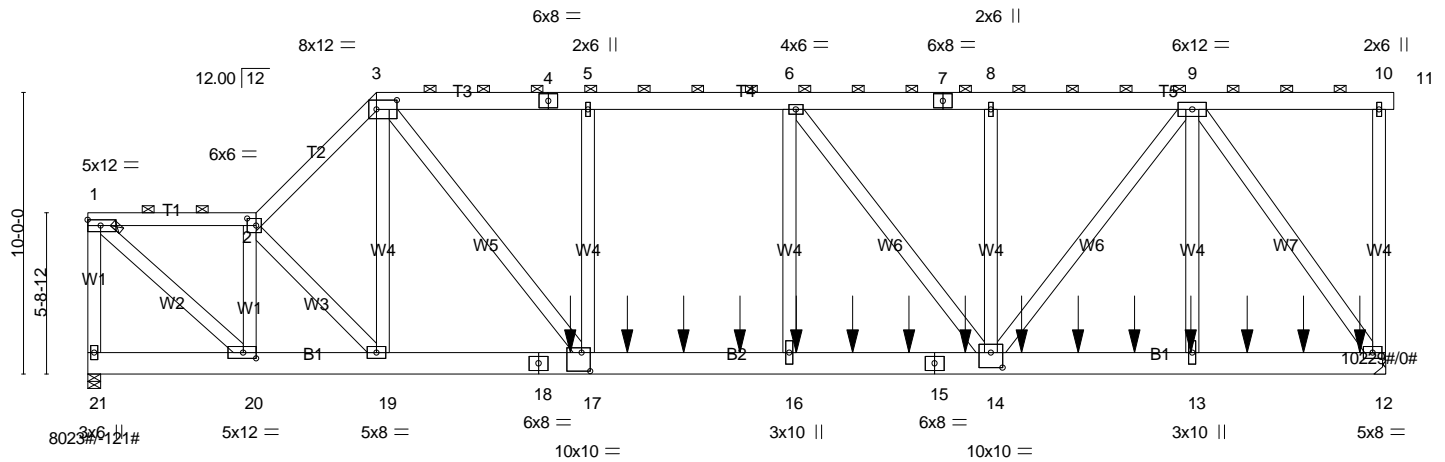


Plate Offsets (X,Y)-- [2:0-3-12,0-3-0], [3:0-8-12,0-4-0], [14:0-5-0,0-6-8], [17:0-3-12,0-8-0], [20:0-5-8,0-2-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.15	Vert(LL) -0.16	16	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.31	Vert(CT) -0.29	16-17	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.87	Horz(CT) 0.06	12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.10	17-19	>999	240		
							Weight: 1784 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x8 SP No.1 \*Except\*  
T1,T2: 2x6 SP No.1  
BOT CHORD 2x10 SP 2400F 2.0E  
WEBS 2x6 SP No.1

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-2, 3-11.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 21=0-5-8 (min. 0-2-3), 12=Mechanical  
Max Horz 21=137(LC 8)  
Max Uplift 21=-121(LC 5)  
Max Grav 21=8023(LC 2), 12=10229(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-21=-7720/132, 1-2=-8281/120, 2-3=-11682/303, 3-4=-13929/152, 4-5=-13929/152, 5-6=-13929/152, 6-7=-11270/0, 7-8=-11270/0, 8-9=-11270/0  
BOT CHORD 19-20=-229/8643, 18-19=-264/8305, 18-22=-264/8305, 17-22=-264/8305, 17-23=-152/13929, 23-24=-152/13929, 24-25=-152/13929, 16-25=-152/13929, 16-26=-152/13929, 26-27=-152/13929, 15-27=-152/13929, 15-28=-152/13929, 28-29=-152/13929, 14-29=-152/13929, 14-30=0/6462, 30-31=0/6462, 31-32=0/6462, 32-33=0/6462, 13-33=0/6462, 13-34=0/6462, 34-35=0/6462, 35-36=0/6462, 12-36=0/6462  
WEBS 1-20=-160/11173, 2-20=-8023/277, 2-19=-541/19, 3-19=-242/999, 3-17=0/9027, 5-17=-545/292, 9-13=0/2440, 9-12=-11141/0, 9-14=0/7897, 8-14=-413/190, 6-14=-4552/997, 6-16=-526/3210

- NOTES-**
- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x8 - 2 rows staggered at 0-9-0 oc.  
Bottom chords connected as follows: 2x10 - 4 rows staggered at 0-4-0 oc.  
Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 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.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - 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 with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 121 lb uplift at joint 21.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

On this plan representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job J1118-5039	Truss AGR02	Truss Type ROOF SPECIAL GIRDER	Qty 1	Ply 3	Job Reference (optional)
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**NOTES-**

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 4321 lb down and 369 lb up at 17-1-8, 1099 lb down and 52 lb up at 19-1-12, 1099 lb down and 52 lb up at 21-1-12, 1099 lb down and 52 lb up at 23-1-12, 1106 lb down and 52 lb up at 25-1-12, 497 lb down and 77 lb up at 27-1-12, 556 lb down at 29-1-12, 565 lb down at 31-1-12, 562 lb down at 33-1-12, 556 lb down at 35-1-12, 556 lb down at 37-1-12, 562 lb down at 39-1-12, 556 lb down at 41-1-12, and 556 lb down at 43-1-12, and 571 lb down at 45-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-2=-60, 2-3=-60, 12-21=-20, 3-11=-60

Concentrated Loads (lb)

Vert: 13=-484(B) 16=-1021(B) 22=-4321(B) 23=-1021(B) 24=-1021(B) 25=-1021(B) 26=-425(B) 27=-484(B) 28=-484(B) 31=-484(B) 32=-484(B) 33=-484(B) 34=-484(B) 35=-484(B) 36=-487(B)