

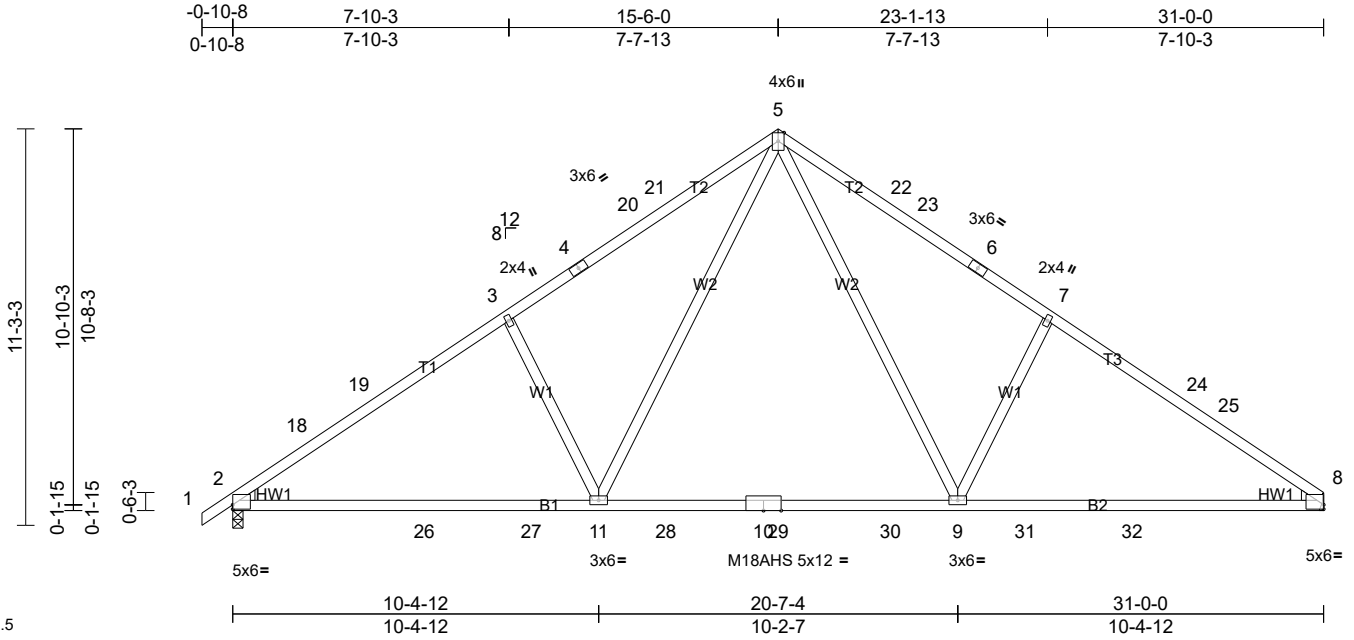
Job 2400040-07818	Truss A1	Truss Type Common	Qty 5	Ply 1	HARRELL RESIDENCE - SCHUMACHER Job Reference (optional)
----------------------	-------------	----------------------	----------	----------	--

84 Components, Dunn, NC 28334

Run: 8.72 S Dec 13 2023 Print: 8.720 S Dec 13 2023 MiTek Industries, Inc. Mon Jan 29 11:11:22

Page: 1

ID:Eq9PCY8fd9H8wHlI?qFc?izulEG-pvQGYRMKaDM7uZG?akdqf11mRvxvbaP\_M4kOQxzqX7L



Scale = 1:65.5

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	-0.53	9-11	>701	240	MT20 244/190
Snow (Pf/Pg)	7.7/10.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.69	9-17	>541	180	M18AHS 186/179
TCDL	15.0	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.04	8	n/a	n/a	
BCLL	0.0*	Code	IBC2015/TPI2014	Matrix-MS							
BCDL	10.0										Weight: 156 lb FT = 20%

**LUMBER**  
TOP CHORD 2x4 SP DSS  
BOT CHORD 2x4 SP DSS  
WEBS 2x4 SP No.2 \*Except\* W1:2x4 SP No.3  
WEDGE Left: 2x4 SP No.3  
Right: 2x4 SP No.3

**BRACING**  
TOP CHORD Structural wood sheathing directly applied.  
BOT CHORD Rigid ceiling directly applied or 9-9-4 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=1054/0-3-8, (min. 0-1-9),  
8=1013/ Mechanical, (min. 0-1-8)  
Max Horiz 2=207 (LC 13)  
Max Uplift 2=-128 (LC 14), 8=-116 (LC 15)  
Max Grav 2=1529 (LC 26), 8=1471 (LC 27)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-18=-2134/151, 18-19=-2023/161,  
3-19=-1975/188, 3-4=-1952/221,  
4-20=-1823/242, 20-21=-1807/245,  
5-21=-1798/268, 5-22=-1801/269,  
22-23=-1810/247, 6-23=-1826/243,  
6-7=-1955/222, 7-24=-1976/193,  
24-25=-2027/164, 8-25=-2137/161  
BOT CHORD 2-26=-237/1814, 26-27=-194/1814,  
11-27=-194/1814, 11-28=-20/1173,  
10-28=-20/1173, 10-29=-20/1173,  
29-30=-20/1173, 9-30=-20/1173,  
9-31=-71/1671, 31-32=-71/1671,  
8-32=-71/1671  
WEBS 5-9=-169/954, 7-9=-520/230, 5-11=-168/950,  
3-11=-518/229

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

- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-10-8 to 2-2-11, Interior (1) 2-2-11 to 15-6-0, Exterior (2) 15-6-0 to 18-7-3, Interior (1) 18-7-3 to 31-0-0 zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=10.0 psf (ground snow); Pf=7.7 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 7.7 psf on overhangs non-concurrent with other live loads.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- 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 3-06-00 tall by 2-00-00 wide will fit 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 128 lb uplift at joint 2 and 116 lb uplift at joint 8.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

**LOAD CASE(S)** Standard

Job 2400040-07818	Truss A1A	Truss Type Common	Qty 4	Ply 1	HARRELL RESIDENCE - SCHUMACHER Job Reference (optional)
----------------------	--------------	----------------------	----------	----------	--

84 Components, Dunn, NC 28334

Run: 8.72 S Dec 13 2023 Print: 8.720 S Dec 13 2023 MiTek Industries, Inc. Mon Jan 29 11:11:23

Page: 1

ID:t8tyjeHBoroRM7gBiMSQUeZuIE4-DU5PATODt8iI0?ZGTBXHxIF8x0oxgQ22z21GzqX7I

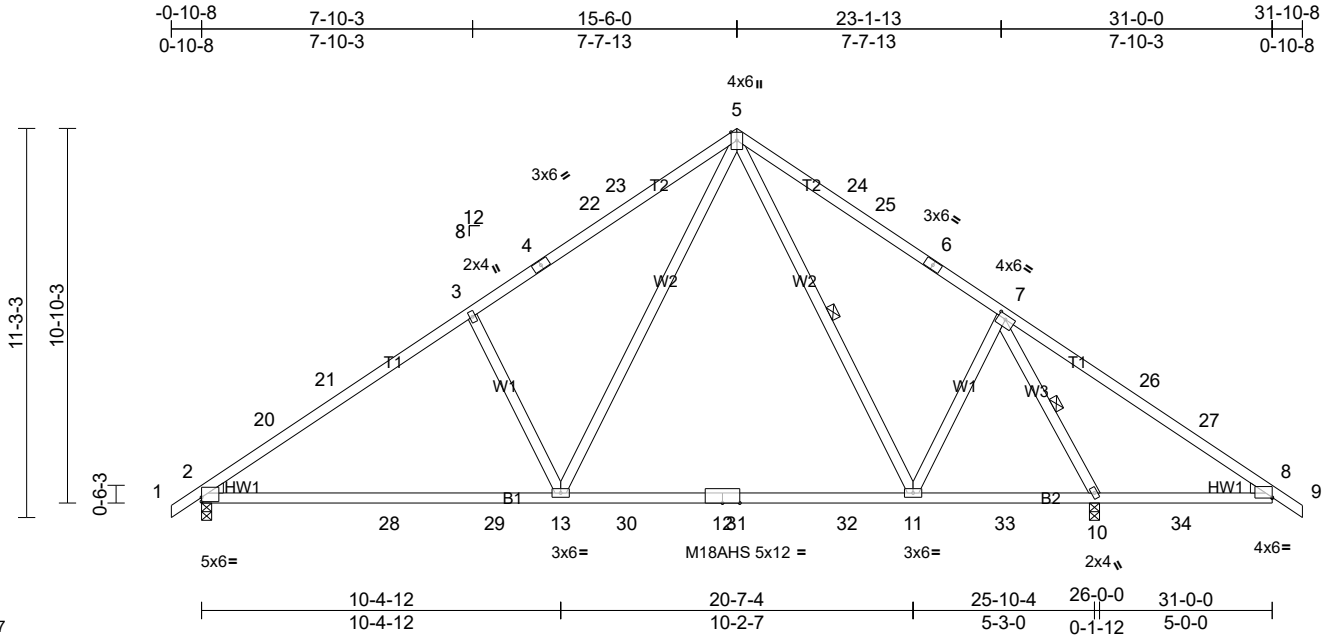


Plate Offsets (X, Y): [2:Edge,0-1-8], [7:0-2-12,0-1-8], [8:Edge,0-0-4]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	Vert(LL)	-0.48	13-16	>646	240	MT20	244/190
Snow (Pf/Pg)	7.7/10.0	Lumber DOL	1.15	BC	Vert(CT)	-0.67	13-16	>464	180	M18AHS	186/179
TCDL	15.0	Rep Stress Incr	YES	WB	Horz(CT)	0.03	2	n/a	n/a		
BCLL	0.0*	Code	IBC2015/TPI2014	Matrix-MS							
BCDL	10.0										
Weight: 166 lb FT = 20%											

**LUMBER**  
TOP CHORD 2x4 SP DSS  
BOT CHORD 2x4 SP DSS  
WEBS 2x4 SP No.3 \*Except\* W2:2x4 SP No.2  
WEDGE Left: 2x4 SP No.3  
Right: 2x4 SP No.3

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 2-4 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
WEBS 1 Row at midpt 5-11, 7-10  
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** (lb/size) 2=848/0-3-8, (min. 0-1-8),  
10=1259/0-3-8, (min. 0-1-12)  
Max Horiz 2=211 (LC 13)  
Max Uplift 2=-116 (LC 14), 10=-153 (LC 15)  
Max Grav 2=1237 (LC 26), 10=1741 (LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-20=-1632/127, 20-21=-1523/136,  
3-21=-1460/164, 3-4=-1450/200,  
4-22=-1321/220, 22-23=-1304/224,  
5-23=-1296/246, 5-24=-733/179,  
24-25=-742/156, 6-25=-759/153,  
6-7=-889/132, 7-26=-170/734,  
26-27=-195/658, 8-27=-215/643  
BOT CHORD 2-28=-226/1404, 28-29=-169/1404,  
13-29=-169/1404, 13-30=0/746, 12-30=0/746,  
12-31=0/746, 31-32=0/746, 11-32=0/746,  
11-33=-7/436, 10-33=-7/436,  
10-34=-547/245, 8-34=-547/245  
WEBS 7-11=-20/497, 5-13=-167/983,  
3-13=-525/230, 7-10=-1757/262

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

- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-10-8 to 2-2-11, Interior (1) 2-2-11 to 15-6-0, Exterior (2) 15-6-0 to 18-7-3, Interior (1) 18-7-3 to 31-10-8 zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=10.0 psf (ground snow); Pf=7.7 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 7.7 psf on overhangs non-concurrent with other live loads.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 116 lb uplift at joint 2 and 153 lb uplift at joint 10.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

**LOAD CASE(S)** Standard

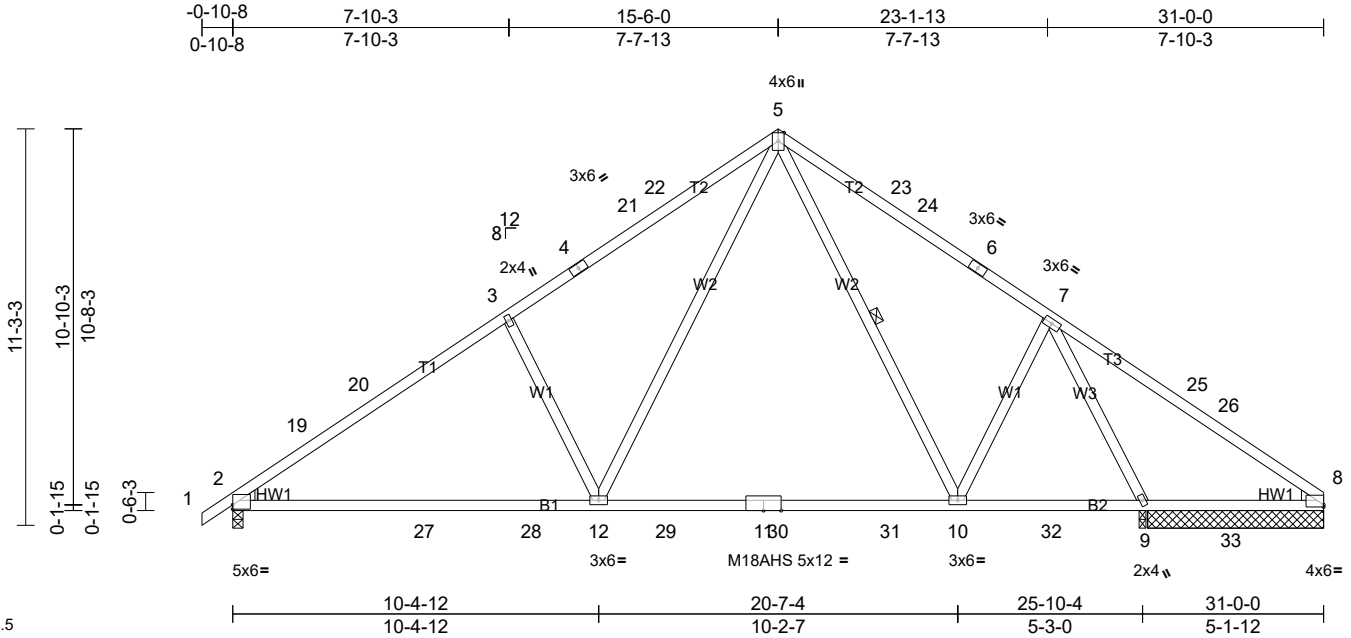
Job 2400040-07818	Truss A1B	Truss Type Common	Qty 1	Ply 1	HARRELL RESIDENCE - SCHUMACHER Job Reference (optional)
----------------------	--------------	----------------------	----------	----------	--

84 Components, Dunn, NC 28334

Run: 8.72 S Dec 13 2023 Print: 8.720 S Dec 13 2023 MiTek Industries, Inc. Mon Jan 29 11:11:24

Page: 1

ID:egMzPNNCvlpIKMHJA1blpwzUlDy-hgfnOpPreStYNAampAimq8CTFYH5XHBaGicZjqX7H



Scale = 1:65.5

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.48	12-15	>647	240	MT20	244/190
Snow (Pf/Pg)	7.7/10.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.67	12-15	>466	180	M18AHS	186/179
TCDL	15.0	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.03	16	n/a	n/a		
BCLL	0.0*	Code	IBC2015/TPI2014	Matrix-MS								
BCDL	10.0											
										Weight: 164 lb	FT = 20%	

**LUMBER**  
TOP CHORD 2x4 SP DSS  
BOT CHORD 2x4 SP DSS  
WEBS 2x4 SP No.3 \*Except\* W2:2x4 SP No.2  
WEDGE Left: 2x4 SP No.3  
Right: 2x4 SP No.3

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 9-8-5 oc bracing.  
WEBS 1 Row at midpt 5-10

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

**REACTIONS** All bearings 5-0-0. except 2=0-3-8, 9=0-2-5  
(lb) - Max Horiz 2=207 (LC 13)  
Max Uplift All uplift 100 (lb) or less at joint(s)  
8, 9, 16 except 2=119 (LC 14)  
Max Grav All reactions 250 (lb) or less at joint  
(s) except 2=1305 (LC 26), 8=451  
(LC 52), 9=1247 (LC 27), 16=451  
(LC 52)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250  
(lb) or less except when shown.  
TOP CHORD 2-19=-1749/132, 19-20=-1640/141,  
3-20=-1589/169, 3-4=-1567/205,  
4-21=-1438/225, 21-22=-1421/229,  
5-22=-1413/251, 5-23=-1002/235,  
23-24=-1010/213, 6-24=-1027/209,  
6-7=-1155/189, 7-25=-263/106,  
25-26=-401/77, 8-26=-464/75  
BOT CHORD 2-27=-233/1495, 27-28=-180/1495,  
12-28=-180/1495, 12-29=-7/839,  
11-29=-7/839, 11-30=-7/839, 30-31=-7/839,  
10-31=-7/839, 10-32=-28/731, 9-32=-28/731,  
9-33=0/279, 8-33=0/279  
WEBS 7-10=-52/303, 5-12=-166/979,  
3-12=-523/230, 7-9=-1282/79

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

- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust)  
Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-10-8 to 2-2-11, Interior (1) 2-2-11 to 15-6-0, Exterior (2) 15-6-0 to 18-7-3, Interior (1) 18-7-3 to 31-0-0 zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=10.0 psf (ground snow); Pf=7.7 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 7.7 psf on overhangs non-concurrent with other live loads.
- 5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- 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 3-06-00 tall by 2-00-00 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 at joint(s) 9.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 8, 9, 8 except (jt=lb) 2=119.
- 11) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 12) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

**LOAD CASE(S)** Standard

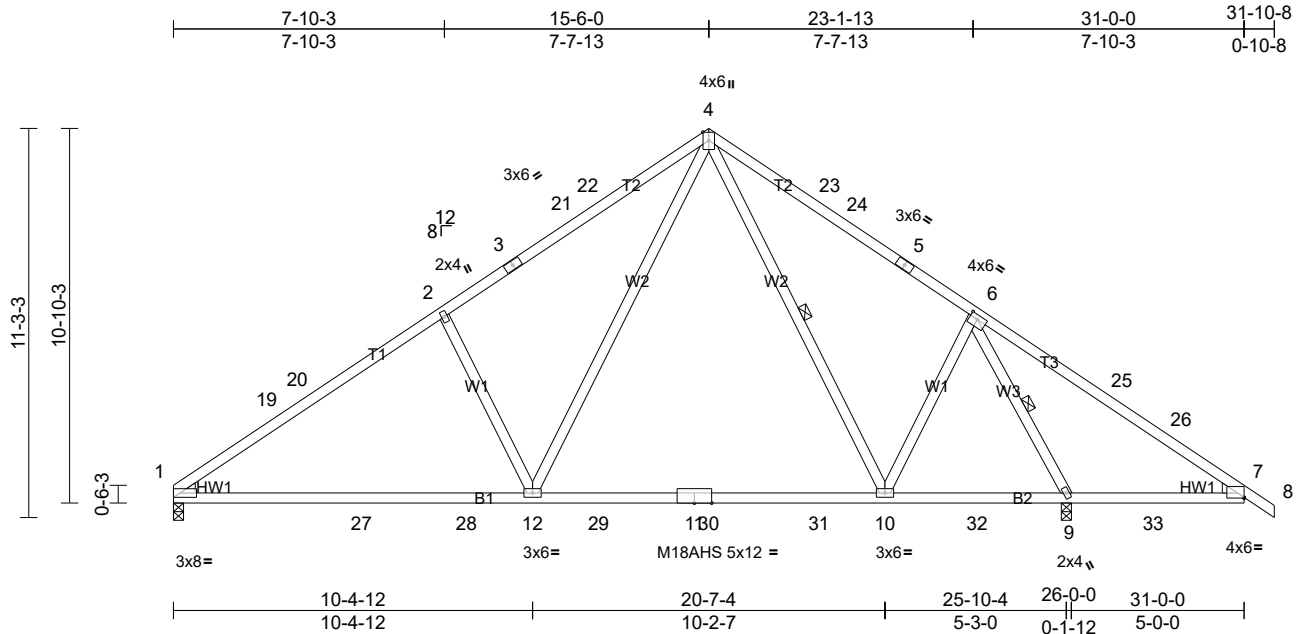
Job 2400040-07818	Truss A1C	Truss Type Common	Qty 3	Ply 1	HARRELL RESIDENCE - SCHUMACHER Job Reference (optional)
----------------------	--------------	----------------------	----------	----------	--

84 Components, Dunn, NC 28334

Run: 8.72 S Dec 13 2023 Print: 8.720 S Dec 13 2023 MiTek Industries, Inc. Mon Jan 29 11:11:24

Page: 1

ID:A1sSKfv8RzdnQl3bTh1euzulDR-hgfnOpPreStYNAampAimq8CT\_YHFXOwaGicZjqX7H



Scale = 1:66.7

Plate Offsets (X, Y): [1:Edge,0-0-0], [6:0-2-12,0-1-8], [7:Edge,0-0-4]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	-0.48	12-15	>646	240	MT20	244/190
Snow (Pf/Pg)	7.7/10.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.68	12-15	>461	180	M18AHS	186/179
TCDL	15.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.03	1	n/a	n/a		
BCLL	0.0*	Code	IBC2015/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 164 lb	FT = 20%

**LUMBER**  
TOP CHORD 2x4 SP DSS  
BOT CHORD 2x4 SP DSS  
WEBS 2x4 SP No.3 \*Except\* W2:2x4 SP No.2  
WEDGE Left: 2x4 SP No.3  
Right: 2x4 SP No.3

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 2-4-4 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
WEBS 1 Row at midpt 4-10, 6-9  
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** (lb/size) 1=807/0-3-8, (min. 0-1-8), 9=1260/0-3-8, (min. 0-1-12)  
Max Horiz 1=-207 (LC 10)  
Max Uplift 1=-104 (LC 14), 9=-153 (LC 15)  
Max Grav 1=1180 (LC 26), 9=1742 (LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-19=-1635/133, 19-20=-1528/136, 2-20=-1463/165, 2-3=-1454/201, 3-21=-1325/221, 21-22=-1308/225, 4-22=-1300/247, 4-23=-733/179, 23-24=-743/156, 5-24=-760/153, 5-6=-890/132, 6-25=-170/734, 25-26=-195/658, 7-26=-215/643  
BOT CHORD 1-27=-225/1408, 27-28=-170/1408, 12-28=-170/1408, 12-29=0/747, 11-29=0/747, 11-30=0/747, 30-31=0/747, 10-31=0/747, 10-32=-7/437, 9-32=-7/437, 9-33=-547/245, 7-33=-547/245  
WEBS 6-10=-20/497, 4-12=-168/987, 2-12=-527/231, 6-9=-1758/262

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

- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-1-3, Interior (1) 3-1-3 to 15-6-0, Exterior (2) 15-6-0 to 18-7-3, Interior (1) 18-7-3 to 31-10-8 zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=10.0 psf (ground snow); Pf=7.7 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 7.7 psf on overhangs non-concurrent with other live loads.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 104 lb uplift at joint 1 and 153 lb uplift at joint 9.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

**LOAD CASE(S)** Standard

Job 2400040-07818	Truss A1D	Truss Type Common	Qty 3	Ply 1	HARRELL RESIDENCE - SCHUMACHER Job Reference (optional)
----------------------	--------------	----------------------	----------	----------	--

84 Components, Dunn, NC 28334

Run: 8.72 S Dec 13 2023 Print: 8.720 S Dec 13 2023 MiTek Industries, Inc. Mon Jan 29 11:11:25

Page: 1

ID:33dOkr14CuceofP5KNZy?JzulD6-9sD9b8QTpm?P?K9yNtD?MMkeNydNGkOjVMS969zqX7G

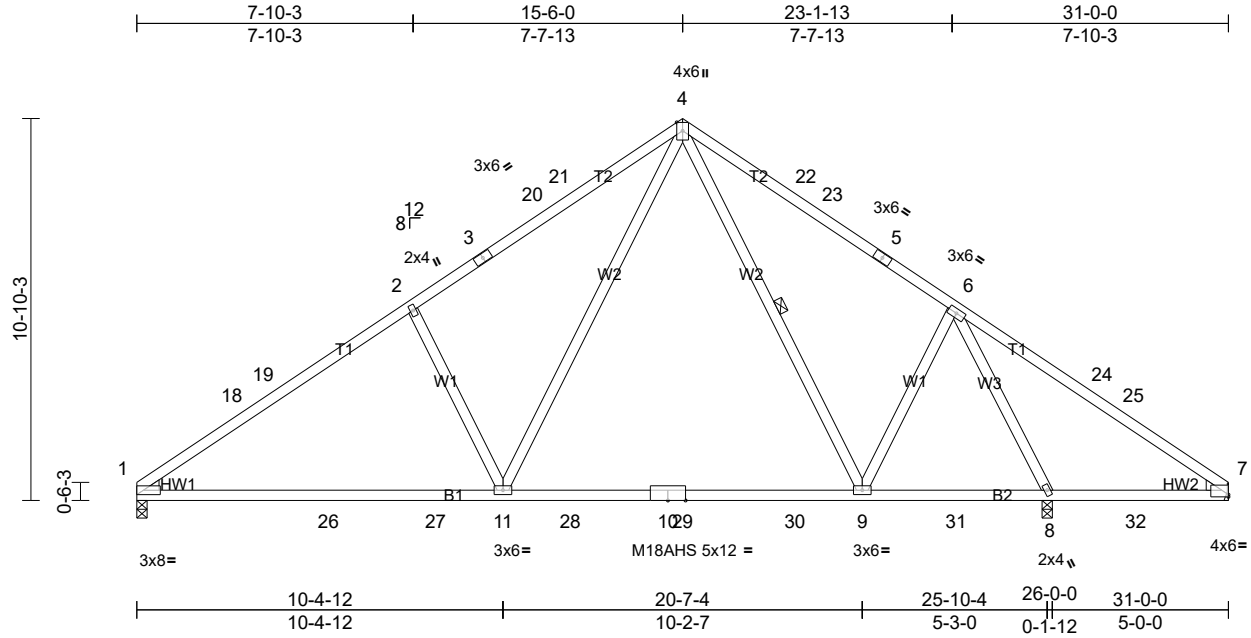


Plate Offsets (X, Y): [1:Edge,0-0-0], [7:Edge,0-0-12]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.48	11-14	>646	240	MT20 244/190
Snow (Pf/Pg)	7.7/10.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.67	11-14	>463	180	M18AHS 186/179
TCDL	15.0	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.03	8	n/a	n/a	
BCLL	0.0*	Code	IBC2015/TPI2014	Matrix-MS							
BCDL	10.0										Weight: 163 lb FT = 20%

**LUMBER**  
TOP CHORD 2x4 SP DSS  
BOT CHORD 2x4 SP DSS  
WEBS 2x4 SP No.3 \*Except\* W2:2x4 SP No.2  
WEDGE Left: 2x4 SP No.3  
Right: 2x4 SP No.3

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 9-7-14 oc bracing.  
WEBS 1 Row at midpt 4-9

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

**REACTIONS** (lb/size) 1=866/0-3-8, (min. 0-1-8), 7=261/Mechanical, (min. 0-1-8), 8=900/0-3-8, (min. 0-1-8)  
Max Horiz 1=-200 (LC 10)  
Max Uplift 1=-107 (LC 14), 7=-67 (LC 15), 8=-58 (LC 15)  
Max Grav 1=1248 (LC 25), 7=452 (LC 51), 8=1245 (LC 26)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-18=-1753/143, 18-19=-1645/145, 2-19=-1593/174, 2-3=-1571/206, 3-20=-1443/227, 20-21=-1426/230, 4-21=-1418/252, 4-22=-1003/235, 22-23=-1012/213, 5-23=-1029/209, 5-6=-1157/189, 6-24=-265/106, 24-25=-403/78, 7-25=-466/75  
BOT CHORD 1-26=-231/1500, 26-27=-182/1500, 11-27=-182/1500, 11-28=-8/841, 10-28=-8/841, 10-29=-8/841, 29-30=-8/841, 9-30=-8/841, 9-31=-29/733, 8-31=-29/733, 8-32=0/281, 7-32=0/281  
WEBS 6-9=-52/303, 4-11=-168/983, 2-11=-526/231, 6-8=-1279/77

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

- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-1-3, Interior (1) 3-1-3 to 15-6-0, Exterior (2) 15-6-0 to 18-7-3, Interior (1) 18-7-3 to 31-0-0 zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=10.0 psf (ground snow); Pf=7.7 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 4) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 107 lb uplift at joint 1, 67 lb uplift at joint 7 and 58 lb uplift at joint 8.
- 10) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 11) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

**LOAD CASE(S)** Standard

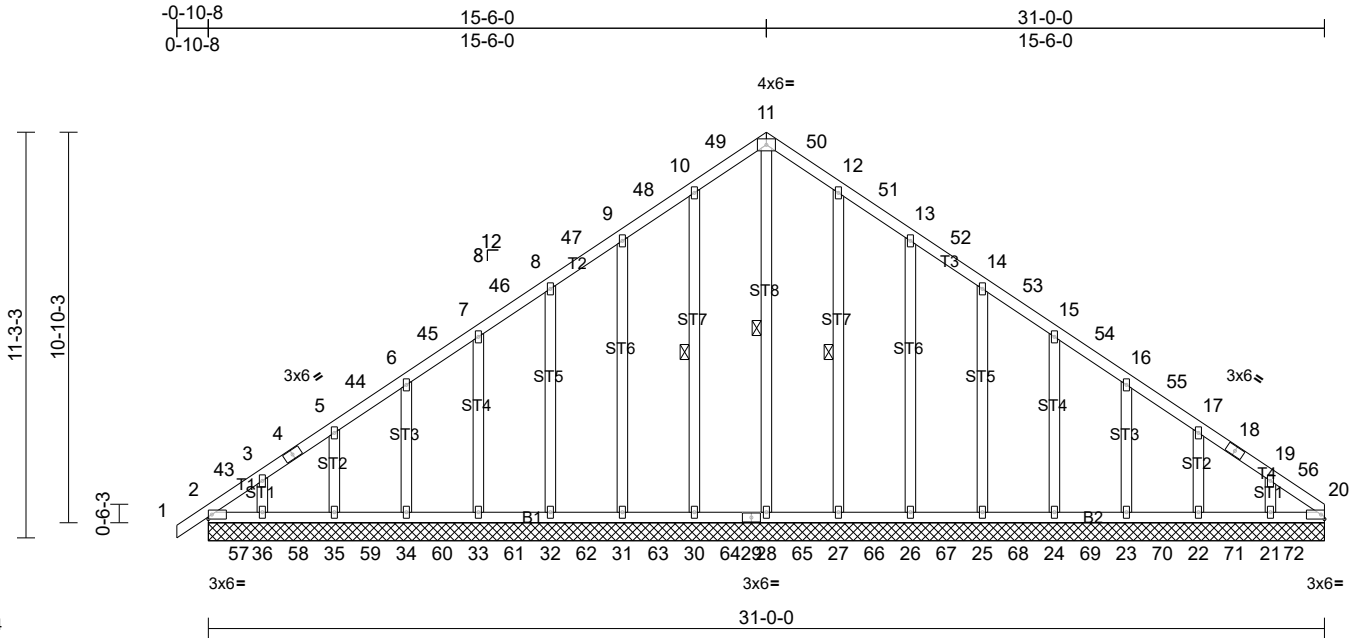
Job 2400040-07818	Truss A1E	Truss Type Common Supported Gable	Qty 2	Ply 1	HARRELL RESIDENCE - SCHUMACHER Job Reference (optional)
----------------------	--------------	--------------------------------------	----------	----------	--

84 Components, Dunn, NC 28334

Run: 8.72 S Dec 13 2023 Print: 8.720 S Dec 13 2023 MiTek Industries, Inc. Mon Jan 29 11:11:26

Page: 1

ID:flWXpFcBuefqZ14K8SRDxRzulCM-d2nXoUQ5A37GcUk8xbkEvZhx8M6n?KlItk0BjebzqX7F



Scale = 1:64

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	7.7/10.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.32	Horz(CT)	-0.01	22	n/a	n/a		
BCLL	0.0*	Code	IBC2015/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 222 lb	FT = 20%

**LUMBER**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
OTHERS 2x4 SP No.3 \*Except\* ST8,ST7,ST6,ST5:2x4 SP No.2

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
WEBS 1 Row at midpt 11-28, 10-30, 12-27

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

**REACTIONS** All bearings 31-0-0.  
(b) - Max Horiz 2=207 (LC 13), 37=207 (LC 13)  
Max Uplift All uplift 100 (lb) or less at joint(s) 23, 24, 25, 26, 27, 30, 31, 32, 33, 34, 35, 36 except 2=-109 (LC 10), 22=-106 (LC 15), 37=-109 (LC 10)  
Max Grav All reactions 250 (lb) or less at joint (s) except 2=301 (LC 71), 21=402 (LC 87), 22=333 (LC 104), 23=355 (LC 103), 24=349 (LC 102), 25=351 (LC 101), 26=349 (LC 100), 27=355 (LC 99), 28=364 (LC 98), 30=355 (LC 97), 31=349 (LC 96), 32=351 (LC 95), 33=350 (LC 94), 34=350 (LC 93), 35=353 (LC 92), 36=339 (LC 91), 37=301 (LC 71)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 10-48=-154/252, 10-49=-207/261, 11-49=-190/273, 11-50=-190/264, 12-50=-207/256  
WEBS 11-28=-290/101, 10-30=-297/57, 9-31=-292/67, 8-32=-295/63, 7-33=-297/63, 6-34=-300/63, 5-35=-304/63, 3-36=-297/67, 12-27=-297/52, 13-26=-292/69, 14-25=-296/62, 15-24=-296/65, 16-23=-302/57, 17-22=-296/88, 19-21=-315/25

**NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -0-10-8 to 2-2-11, Exterior (2) 2-2-11 to 15-6-0, Corner (3) 15-6-0 to 18-7-3, Exterior (2) 18-7-3 to 31-0-0 zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=10.0 psf (ground snow); Pf=7.7 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 7.7 psf on overhangs non-concurrent with other live loads.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 30, 31, 32, 33, 34, 35, 36, 27, 26, 25, 24, 23 except (jt=lb) 2=108, 22=106, 2=108.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

**LOAD CASE(S)** Standard

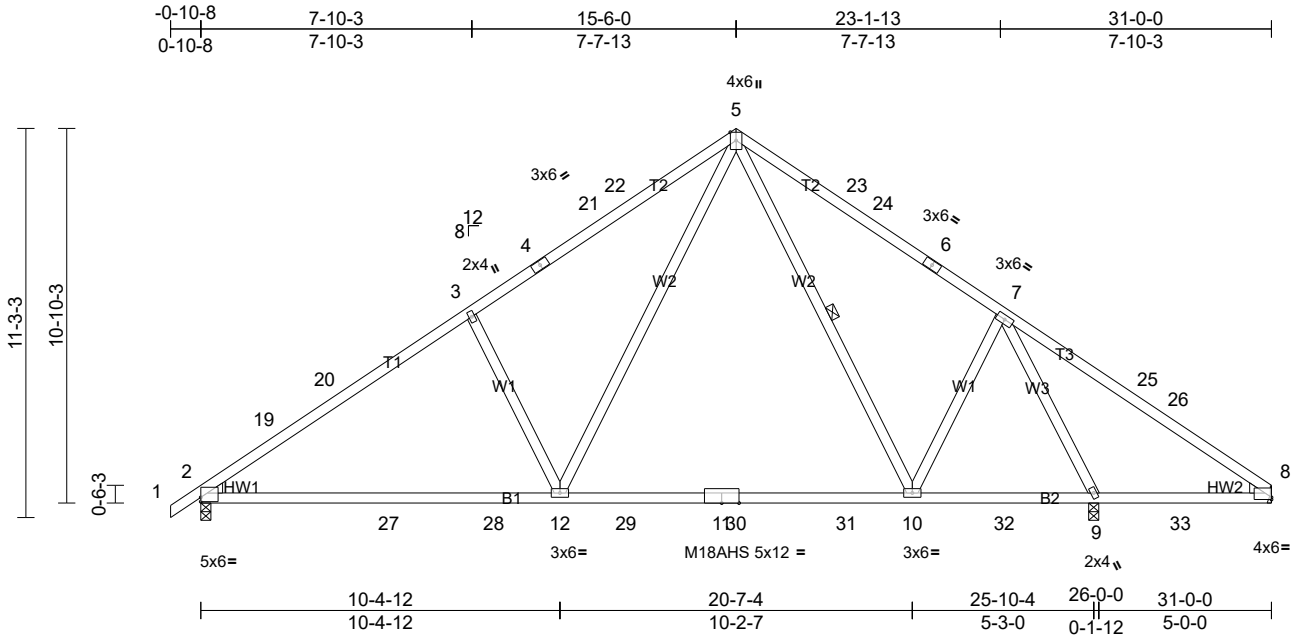
Job 2400040-07818	Truss A1F	Truss Type Common	Qty 3	Ply 1	HARRELL RESIDENCE - SCHUMACHER Job Reference (optional)
----------------------	--------------	----------------------	----------	----------	--

84 Components, Dunn, NC 28334

Run: 8.72 S Dec 13 2023 Print: 8.720 S Dec 13 2023 MiTek Industries, Inc. Mon Jan 29 11:11:27

Page: 1

ID:rhD6hqyIFBswKDinLxn4LzulBw-5FLw0qRjxNF7EeJLVFTRnq\_smltket0zgxGA1zqX7E



Scale = 1:66.7

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.48	12-15	>647	240	MT20	244/190
Snow (Pf/Pg)	7.7/10.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.67	12-15	>466	180	M18AHS	186/179
TCDL	15.0	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.03	9	n/a	n/a		
BCLL	0.0*	Code	IBC2015/TPI2014	Matrix-MS								
BCDL	10.0											
										Weight: 164 lb	FT = 20%	

**LUMBER**  
TOP CHORD 2x4 SP DSS  
BOT CHORD 2x4 SP DSS  
WEBS 2x4 SP No.3 \*Except\* W2:2x4 SP No.2  
WEDGE Left: 2x4 SP No.3  
Right: 2x4 SP No.3

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 9-8-5 oc bracing.  
WEBS 1 Row at midpt 5-10

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

**REACTIONS** (lb/size) 2=907/0-3-8, (min. 0-1-8), 8=259/  
Mechanical, (min. 0-1-8),  
9=902/0-3-8, (min. 0-1-8)  
Max Horiz 2=207 (LC 13)  
Max Uplift 2=-119 (LC 14), 8=-67 (LC 15),  
9=-58 (LC 15)  
Max Grav 2=1305 (LC 26), 8=451 (LC 52),  
9=1247 (LC 27)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-19=-1749/132, 19-20=-1640/141,  
3-20=-1589/169, 3-4=-1567/205,  
4-21=-1438/225, 21-22=-1421/229,  
5-22=-1413/251, 5-23=-1002/235,  
23-24=-1010/213, 6-24=-1027/209,  
6-7=-1155/189, 7-25=-263/106,  
25-26=-401/77, 8-26=-464/75  
BOT CHORD 2-27=-233/1495, 27-28=-180/1495,  
12-28=-180/1495, 12-29=-7/839,  
11-29=-7/839, 11-30=-7/839, 30-31=-7/839,  
10-31=-7/839, 10-32=-28/731, 9-32=-28/731,  
9-33=0/279, 8-33=0/279  
WEBS 7-10=-52/303, 5-12=-166/979,  
3-12=-523/230, 7-9=-1282/79

- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-10-8 to 2-2-11, Interior (1) 2-2-11 to 15-6-0, Exterior (2) 15-6-0 to 18-7-3, Interior (1) 18-7-3 to 31-0-0 zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=10.0 psf (ground snow); Pf=7.7 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 7.7 psf on overhangs non-concurrent with other live loads.
- 5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 119 lb uplift at joint 2, 67 lb uplift at joint 8 and 58 lb uplift at joint 9.
- 11) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 12) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

**LOAD CASE(S)** Standard

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

Job 2400040-07818	Truss A2	Truss Type Common	Qty 5	Ply 1	HARRELL RESIDENCE - SCHUMACHER Job Reference (optional)
----------------------	-------------	----------------------	----------	----------	--

84 Components, Dunn, NC 28334

Run: 8.72 S Dec 13 2023 Print: 8.720 S Dec 13 2023 MiTek Industries, Inc. Mon Jan 29 11:11:28

Page: 1

ID:rhD6h9yIIFBswKDinLxn4LzulBw-aRvIDASLiHn\_souX20mi\_M9B9fATCUABKgpjUzqX7D

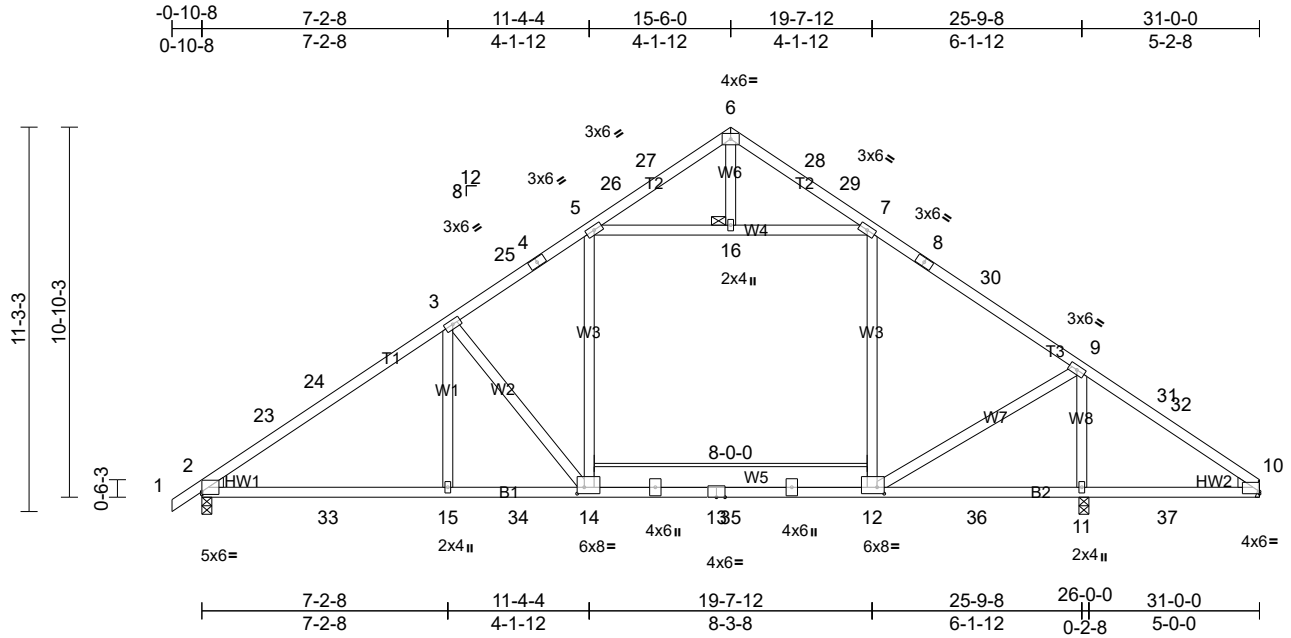


Plate Offsets (X, Y): [2:Edge,0-1-0], [10:Edge,0-0-12], [12:0-2-8,0-2-4], [14:0-2-8,0-2-4]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	-0.18	14-15	>999	240
Snow (Pf/Pg)	7.7/10.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.37	14-15	>831	180
TCDL	15.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.06	10	n/a	n/a
BCLL	0.0*	Code	IBC2015/TPI2014	Matrix-MS		Attic	-0.11	12-14	>889	360
BCDL	10.0									
										Weight: 199 lb FT = 20%

**LUMBER**  
TOP CHORD 2x4 SP No.2 \*Except\* T1:2x4 SP DSS, T3:2x4 SP No.1  
BOT CHORD 2x4 SP DSS \*Except\* B2:2x4 SP No.1  
WEBS 2x4 SP No.2 \*Except\* W5:2x8 SP DSS, W6,W1,W8:2x4 SP No.3  
WEDGE Left: 2x4 SP No.3  
Right: 2x4 SP No.3

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
JOINTS 1 Brace at Jt(s): 16

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

**REACTIONS** (lb/size) 2=1226/0-3-8, (min. 0-1-13), 10=922/ Mechanical, (min. 0-1-8), 11=396/0-3-8, (min. 0-1-8)  
Max Horiz 2=207 (LC 13)  
Max Uplift 10=-96 (LC 14), 11=-265 (LC 10)  
Max Grav 2=1786 (LC 27), 10=1498 (LC 27), 11=974 (LC 32)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-23=-2644/0, 23-24=-2527/0, 3-24=-2522/0, 3-25=-2240/0, 4-25=-2153/0, 4-5=-2143/0, 5-26=-420/6, 26-27=-399/17, 6-27=-393/30, 6-28=-413/36, 28-29=-430/19, 7-29=-447/11, 7-8=-2121/0, 8-30=-2203/0, 9-30=-2305/0, 9-31=-2230/189, 31-32=-2234/172, 10-32=-2327/171  
BOT CHORD 2-33=-189/2227, 15-33=0/2227, 15-34=0/2227, 14-34=0/2227, 13-14=0/1878, 13-35=0/1878, 12-35=0/1878, 12-36=-113/1872, 11-36=-113/1872, 11-37=-113/1872, 10-37=-113/1872  
WEBS 5-14=-50/676, 7-12=-103/606, 5-16=-1556/0, 7-16=-1556/0, 3-15=-1/422, 9-11=-870/240, 3-14=-553/173, 9-12=-258/471

**NOTES**

- Unbalanced roof live loads have been considered for this **LOAD CASE(S)** Standard design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-10-8 to 2-2-11, Interior (1) 2-2-11 to 15-6-0, Exterior (2) 15-6-0 to 18-7-3, Interior (1) 18-7-3 to 31-0-0 zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pg=10.0 psf (ground snow); Pf=7.7 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 7.7 psf on overhangs non-concurrent with other live loads.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 5-16, 7-16; Wall dead load (10.0psf) on member(s).5-14, 7-12
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 12-14
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 96 lb uplift at joint 10 and 265 lb uplift at joint 11.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



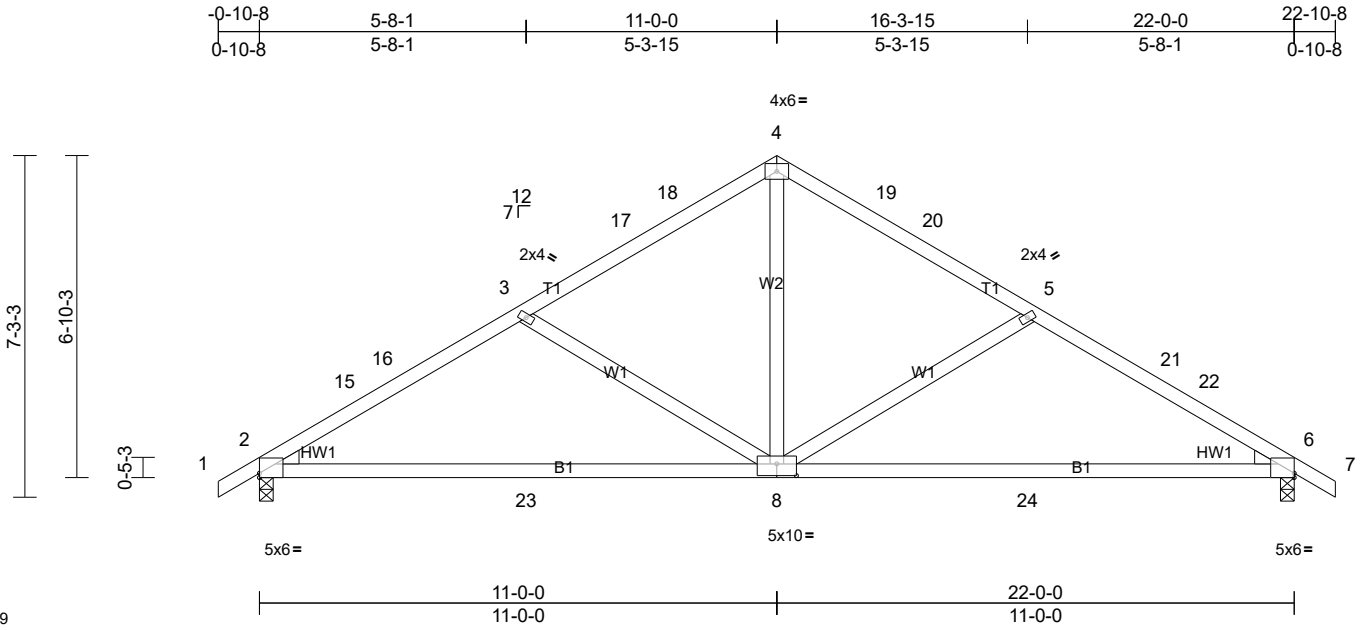
Job 2400040-07818	Truss B1	Truss Type Common	Qty 7	Ply 1	HARRELL RESIDENCE - SCHUMACHER Job Reference (optional)
----------------------	-------------	----------------------	----------	----------	--

84 Components, Dunn, NC 28334

Run: 8.72 S Dec 13 2023 Print: 8.720 S Dec 13 2023 MiTek Industries, Inc. Mon Jan 29 11:11:29

Page: 1

ID:FXQgugCibOi0JPIYyXITuZzulBc-2dSgRWT\_T\_VrTxSjHxXCvL2z\_zChAJQ\_QNFwzqX7C



Scale = 1:49

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	Vert(LL)	-0.54	8-11	>488	240	MT20	244/190
Snow (Pf/Pg)	7.7/10.0	Lumber DOL	1.15	BC	Vert(CT)	-0.74	8-11	>356	180		
TCDL	15.0	Rep Stress Incr	YES	WB	Horz(CT)	0.03	6	n/a	n/a		
BCLL	0.0*	Code	IBC2015/TPI2014	Matrix-MS							
BCDL	10.0										
Weight: 103 lb FT = 20%											

**LUMBER**  
TOP CHORD 2x4 SP No.1  
BOT CHORD 2x4 SP DSS  
WEBS 2x4 SP No.2  
WEDGE Left: 2x4 SP No.3  
Right: 2x4 SP No.3

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 3-7-5 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 9-0-0 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=759/0-3-8, (min. 0-1-8),  
6=759/0-3-8, (min. 0-1-8)  
Max Horiz 2=-134 (LC 14)  
Max Uplift 2=-98 (LC 16), 6=-98 (LC 17)  
Max Grav 2=1051 (LC 2), 6=1051 (LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-15=-1494/133, 15-16=-1442/137,  
3-16=-1421/154, 3-17=-1126/118,  
17-18=-1018/120, 4-18=-1004/136,  
4-19=-1004/136, 19-20=-1018/120,  
5-20=-1126/118, 5-21=-1421/154,  
21-22=-1442/137, 6-22=-1494/133  
BOT CHORD 2-23=-147/1245, 8-23=-147/1245,  
8-24=-66/1245, 6-24=-66/1245  
WEBS 4-8=-47/718, 5-8=-442/163, 3-8=-441/163

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

- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 11-0-0, Exterior (2) 11-0-0 to 14-0-0, Interior (1) 14-0-0 to 22-10-8 zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=10.0 psf (ground snow); Pf=7.7 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 7.7 psf on overhangs non-concurrent with other live loads.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 98 lb uplift at joint 2 and 98 lb uplift at joint 6.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

**LOAD CASE(S)** Standard

Job 2400040-07818	Truss B1E	Truss Type Common Supported Gable	Qty 1	Ply 1	HARRELL RESIDENCE - SCHUMACHER Job Reference (optional)
----------------------	--------------	--------------------------------------	----------	----------	--

84 Components, Dunn, NC 28334

Run: 8.72 S Dec 13 2023 Print: 8.720 S Dec 13 2023 MiTek Industries, Inc. Mon Jan 29 11:11:29

Page: 1

ID:rwdfA5xFjKYdoPZrHoJsekzul4B-2dSgRWT\_T\_VrTxSjHxCvR7Z6wCjXJQ\_QNFwzqX7C

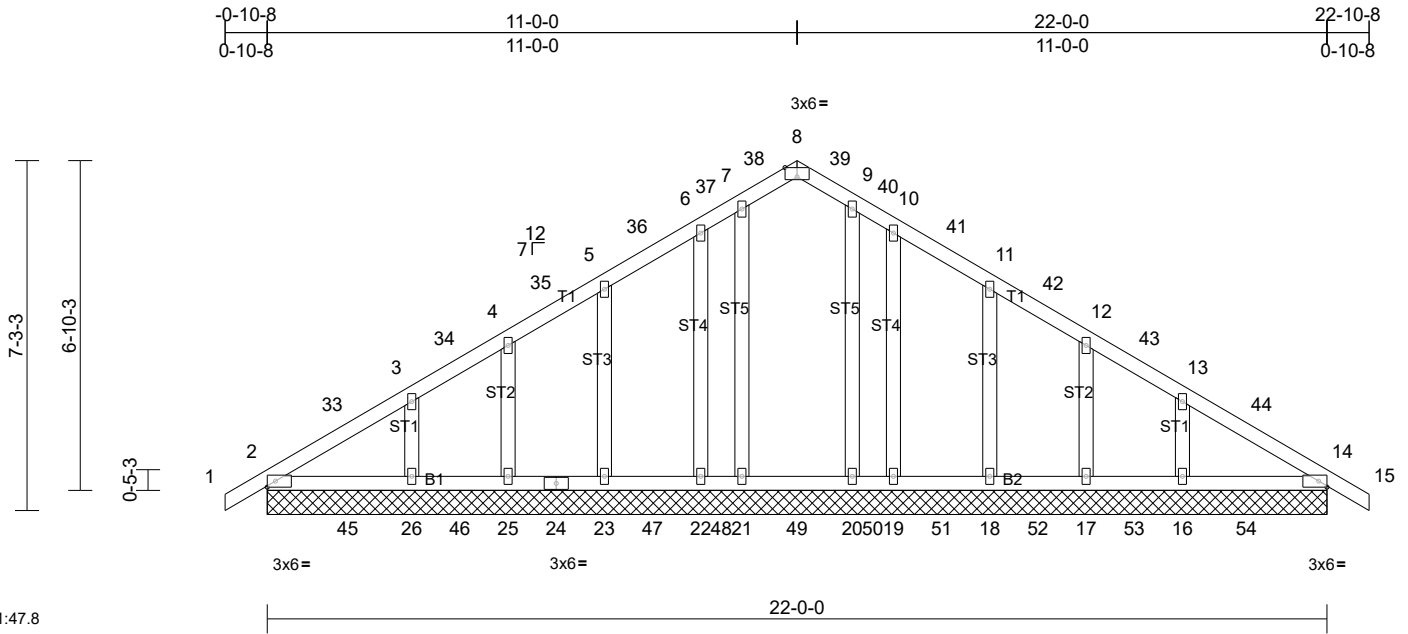


Plate Offsets (X, Y): [8:0-3-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	n/a	-	n/a	999
Snow (Pf/Pg)	7.7/10.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	n/a	-	n/a	999
TCDL	15.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.00	14	n/a	n/a
BCLL	0.0*	Code	IBC2015/TPI2014	Matrix-MS						
BCDL	10.0									
Weight: 131 lb										FT = 20%

**LUMBER**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
OTHERS 2x4 SP No.3

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

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

**REACTIONS** All bearings 22-0-0.  
(lb) - Max Horiz 2=-134 (LC 14), 27=-134 (LC 14)  
Max Uplift All uplift 100 (lb) or less at joint(s) 16, 17, 18, 19, 20, 21, 22, 23, 25, 26  
Max Grav All reactions 250 (lb) or less at joint (s) except 2=355 (LC 67), 14=355 (LC 93), 16=396 (LC 91), 17=333 (LC 90), 18=359 (LC 89), 19=315 (LC 88), 20=321 (LC 87), 21=321 (LC 86), 22=315 (LC 85), 23=359 (LC 84), 25=333 (LC 83), 26=396 (LC 82), 27=355 (LC 67), 30=355 (LC 93)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**WEBS** 6-22=-252/59, 5-23=-302/62, 4-25=-294/50, 3-26=-330/77, 10-19=-252/62, 11-18=-302/62, 12-17=-294/50, 13-16=-330/76

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

- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -0-10-8 to 2-1-8, Exterior (2) 2-1-8 to 11-0-0, Corner (3) 11-0-0 to 14-0-0, Exterior (2) 14-0-0 to 22-10-8 zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pg=10.0 psf (ground snow); Pf=7.7 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 7.7 psf on overhangs non-concurrent with other live loads.
- 7) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- 8) All plates are 2x4 MT20 unless otherwise indicated.
- 9) Gable requires continuous bottom chord bearing.
- 10) Gable studs spaced at 2-0-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 12) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 21, 20, 22, 23, 25, 26, 19, 18, 17, 16.
- 14) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 15) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

**LOAD CASE(S)** Standard

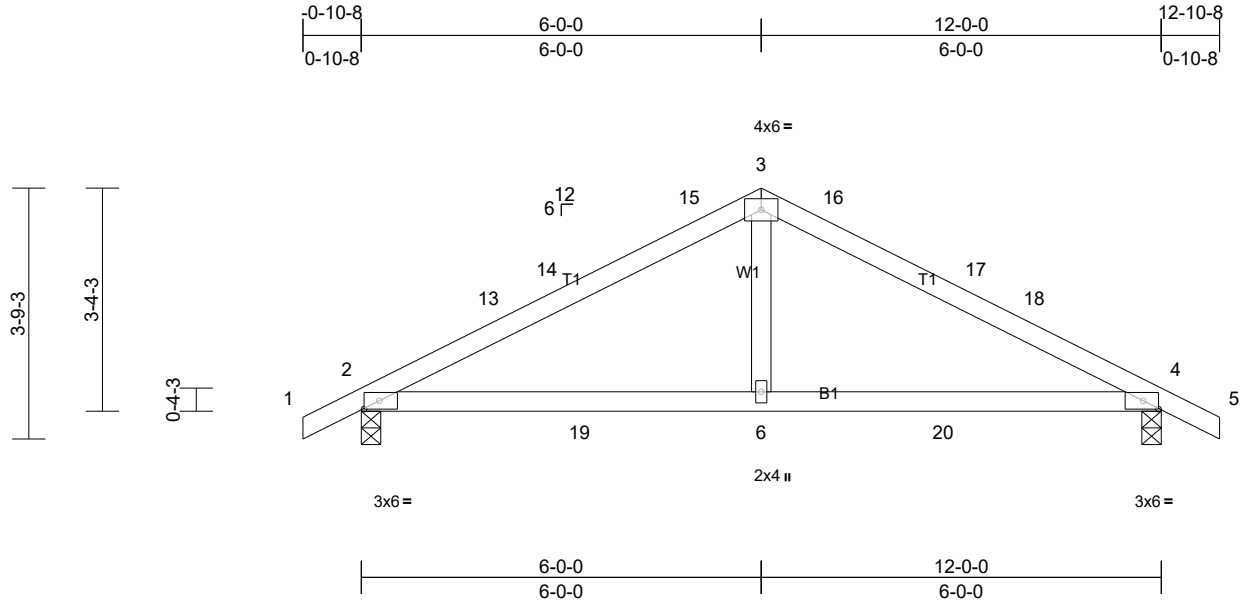
Job 2400040-07818	Truss C1	Truss Type Common	Qty 4	Ply 1	HARRELL RESIDENCE - SCHUMACHER Job Reference (optional)
----------------------	-------------	----------------------	----------	----------	--

84 Components, Dunn, NC 28334

Run: 8.72 S Dec 13 2023 Print: 8.720 S Dec 13 2023 MiTek Industries, Inc. Mon Jan 29 11:11:30

Page: 1

ID:cS6GFq2GroZUmeANITSkzQzUl43-Wq02esTcDIdi551wARpA3PRV8zLmxAJSfe9wnMzqX7B



Scale = 1:34.6

Plate Offsets (X, Y): [2:0-2-12,0-1-8], [4:0-2-12,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.12	6-9	>999	240	MT20	244/190
Snow (Pf/Pg)	7.7/10.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.16	6-9	>911	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.01	4	n/a	n/a		
BCLL	0.0*	Code	IBC2015/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 45 lb	FT = 20%

**LUMBER**

TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x4 SP No.1  
 WEBS 2x4 SP No.3

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 3-10-14 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=432/0-3-8, (min. 0-1-8), 4=432/0-3-8, (min. 0-1-8)  
 Max Horiz 2=45 (LC 16)  
 Max Uplift 2=-61 (LC 16), 4=-61 (LC 17)  
 Max Grav 2=601 (LC 2), 4=601 (LC 2)

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

TOP CHORD 2-13=-768/99, 13-14=-691/104, 14-15=-687/104, 3-15=-626/120, 3-16=-626/120, 16-17=-687/104, 17-18=-691/104, 4-18=-768/99  
 BOT CHORD 2-19=-28/615, 6-19=-28/615, 6-20=-28/615, 4-20=-28/615  
 WEBS 3-6=0/409

**NOTES**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-10-8 to 2-1-8, Interior (1) 2-1-8 to 6-0-0, Exterior (2) 6-0-0 to 9-0-0, Interior (1) 9-0-0 to 12-10-8 zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=10.0 psf (ground snow); Pf=7.7 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 7.7 psf on overhangs non-concurrent with other live loads.
- 6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 61 lb uplift at joint 2 and 61 lb uplift at joint 4.
- 10) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 11) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

**LOAD CASE(S)** Standard

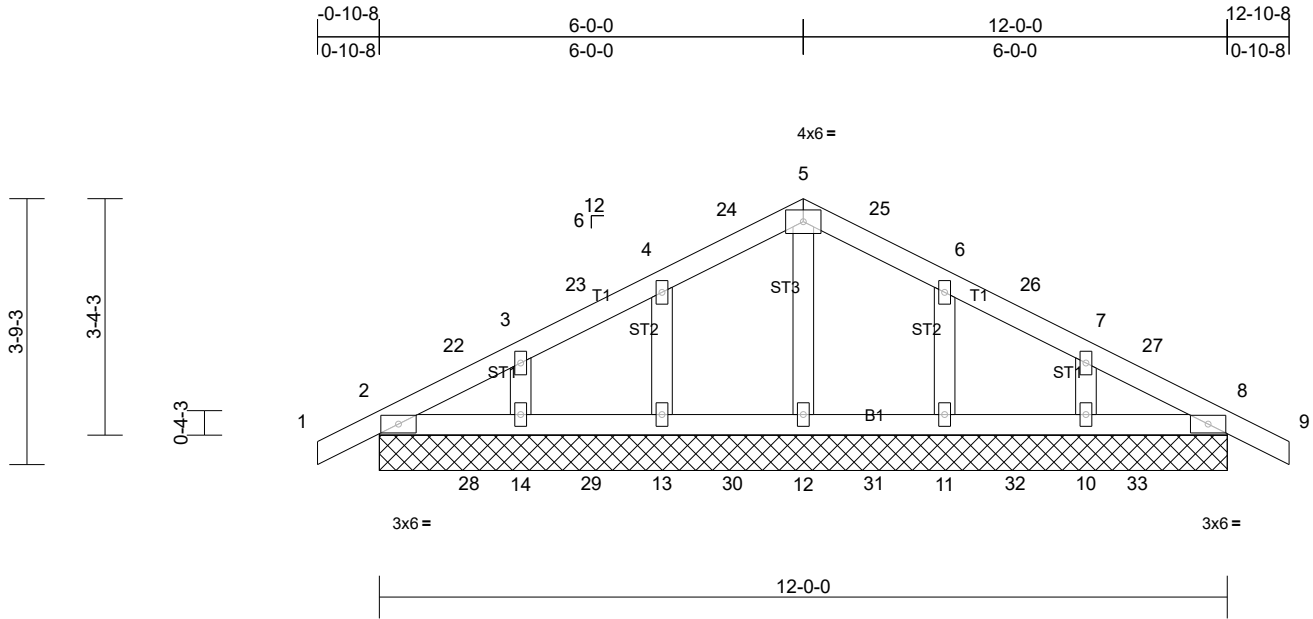
Job 2400040-07818	Truss C1E	Truss Type Common Supported Gable	Qty 1	Ply 1	HARRELL RESIDENCE - SCHUMACHER Job Reference (optional)
----------------------	--------------	--------------------------------------	----------	----------	--

84 Components, Dunn, NC 28334

Run: 8.72 S Dec 13 2023 Print: 8.720 S Dec 13 2023 MiTek Industries, Inc. Mon Jan 29 11:11:30

Page: 1

ID:JNJ2MF9XUsp3zAxIKae4NXzul3v-Wq02esTcDIdi51wARpA3PRdQzUCxBASfe9wnMzqX7B



Scale = 1:32.6

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	7.7/10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	8	n/a	n/a		
BCLL	0.0*	Code	IBC2015/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 53 lb	FT = 20%

**LUMBER**

- TOP CHORD 2x4 SP No.2
- BOT CHORD 2x4 SP No.2
- OTHERS 2x4 SP No.3

**BRACING**

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

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

**REACTIONS** All bearings 12-0-0.

- (lb) - Max Horiz 2=45 (LC 16), 15=45 (LC 16)
- Max Uplift All uplift 100 (lb) or less at joint(s) 2, 8, 10, 11, 13, 14, 15, 19
- Max Grav All reactions 250 (lb) or less at joint (s) except 2=327 (LC 55), 8=327 (LC 71), 10=354 (LC 69), 11=353 (LC 68), 12=339 (LC 67), 13=353 (LC 66), 14=354 (LC 65), 15=327 (LC 55), 19=327 (LC 71)

**FORCES**

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

- WEBS 5-12=-266/0, 4-13=-308/123, 3-14=-305/83, 6-11=-308/123, 7-10=-305/83

**NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-10-8 to 2-0-0, Exterior (2) 2-0-0 to 6-0-0, Corner (3) 6-0-0 to 9-0-0, Exterior (2) 9-0-0 to 12-10-8 zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=10.0 psf (ground snow); Pf=7.7 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 7.7 psf on overhangs non-concurrent with other live loads.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 2, 8, 13, 14, 11, 10, 2, 8.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

**LOAD CASE(S)** Standard

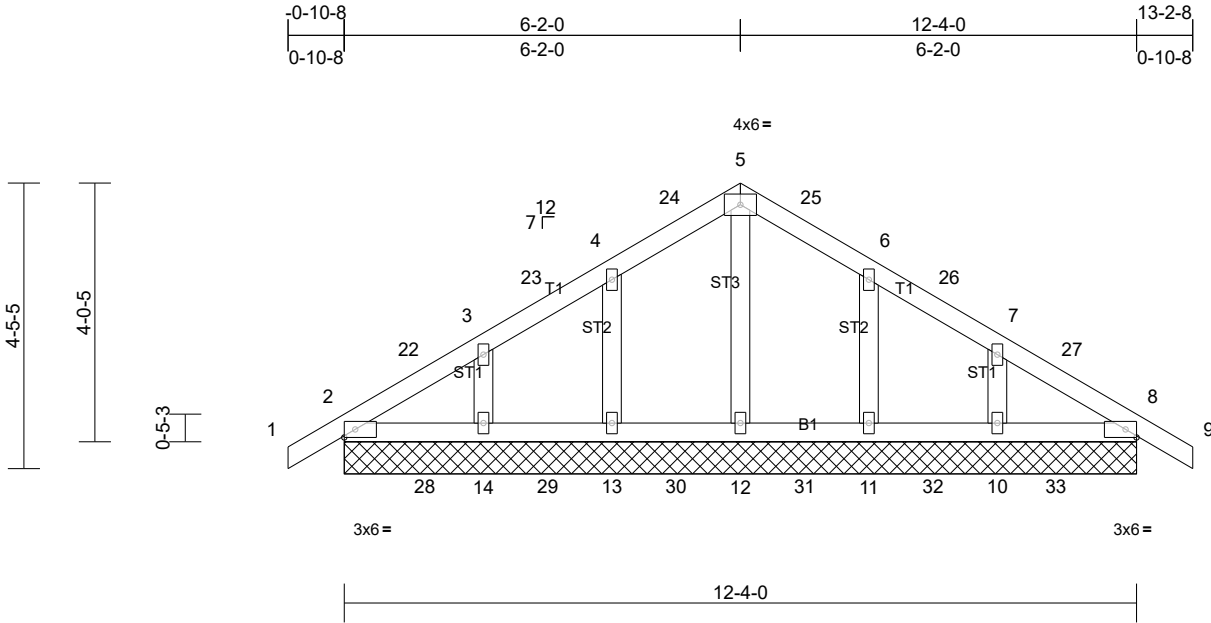
Job 2400040-07818	Truss D1E	Truss Type Common Supported Gable	Qty 1	Ply 1	HARRELL RESIDENCE - SCHUMACHER Job Reference (optional)
----------------------	--------------	--------------------------------------	----------	----------	--

84 Components, Dunn, NC 28334

Run: 8.72 S Dec 13 2023 Print: 8.720 S Dec 13 2023 MiTek Industries, Inc. Mon Jan 29 11:11:31

Page: 1

ID:VV1CF?IRuFCWnsHPUOKfJrzul3k-\_0aQsCUE\_clZJfC6k8KPod\_oAnqRgeHctlvTJpzqX7A



Scale = 1:35.9

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	7.7/10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IBC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 58 lb	FT = 20%

**LUMBER**

- TOP CHORD 2x4 SP No.2
- BOT CHORD 2x4 SP No.2
- OTHERS 2x4 SP No.3

**BRACING**

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

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

**REACTIONS** All bearings 12-4-0.

- (lb) - Max Horiz 2=-80 (LC 14), 15=-80 (LC 14)
- Max Uplift All uplift 100 (lb) or less at joint(s) 2, 8, 10, 11, 13, 14, 15, 19
- Max Grav All reactions 250 (lb) or less at joint (s) except 2=334 (LC 55), 8=334 (LC 71), 10=360 (LC 69), 11=351 (LC 68), 12=334 (LC 67), 13=351 (LC 66), 14=360 (LC 65), 15=334 (LC 55), 19=334 (LC 71)

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

- WEBS 5-12=-251/0, 4-13=-306/59, 3-14=-309/59, 6-11=-306/59, 7-10=-309/59

**NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -0-10-8 to 2-2-0, Exterior (2) 2-2-0 to 6-2-0, Corner (3) 6-2-0 to 9-2-0, Exterior (2) 9-2-0 to 13-2-8 zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=10.0 psf (ground snow); Pf=7.7 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 7.7 psf on overhangs non-concurrent with other live loads.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 2, 8, 13, 14, 11, 10, 2, 8.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

**LOAD CASE(S)** Standard

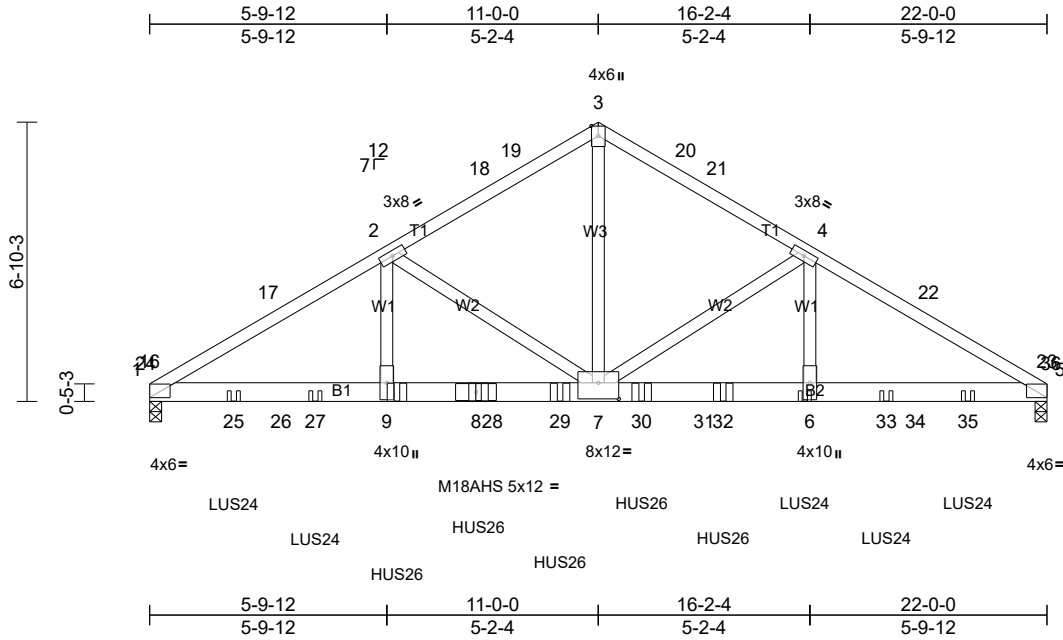
Job 2400040-07818	Truss G01	Truss Type Common Girder	Qty 1	Ply 2	HARRELL RESIDENCE - SCHUMACHER Job Reference (optional)
----------------------	--------------	-----------------------------	----------	----------	--

84 Components, Dunn, NC 28334

Run: 8.72 S Dec 13 2023 Print: 8.720 S Dec 13 2023 MiTek Industries, Inc. Mon Jan 29 11:11:31

Page: 1

ID:hgzVpqSfHklulccs5Y3AC5zul2E-.0aQsCUE\_clZjF6k8KPcd\_gWNjsgTGctvTJpzqX7A



Scale = 1:56.5

Plate Offsets (X, Y): [1:Edge,0-0-0], [5:0-0-0,Edge], [7:0-6-0,0-4-12]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	-0.12	7-9	>999	240	MT20 244/190
Snow (Pf/Pg)	7.7/10.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.28	7-9	>953	180	M18AHS 186/179
TCDL	15.0	Rep Stress Incr	NO	WB	0.78	Horz(CT)	0.06	5	n/a	n/a	
BCLL	0.0*	Code	IBC2015/TPI2014	Matrix-MS							
BCDL	10.0										Weight: 251 lb FT = 20%

**LUMBER**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x6 SP DSS  
WEBS 2x4 SP No.3 \*Except\* W3:2x4 SP No.2

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 3-4-5 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 1=3720/0-3-8, (min. 0-3-0), 5=3426/0-3-8, (min. 0-2-11)  
Max Horiz 1=-124 (LC 70)  
Max Uplift 1=-528 (LC 12), 5=-518 (LC 13)  
Max Grav 1=5885 (LC 25), 5=5357 (LC 26)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-16=-5540/433, 1-16=-5525/435, 1-17=-10698/883, 2-17=-10619/900, 2-18=-7675/641, 18-19=-7597/641, 3-19=-7573/657, 3-20=-7574/657, 20-21=-7598/641, 4-21=-7676/641, 4-22=-9596/876, 5-22=-9675/858, 5-23=-4984/418, 5-23=-4999/416  
BOT CHORD 1-24=-497/5582, 1-24=-497/5582, 1-25=-795/9252, 25-26=-795/9252, 26-27=-795/9252, 9-27=-795/9252, 8-9=-795/9252, 8-28=-795/9252, 28-29=-795/9252, 7-29=-795/9252, 7-30=-690/8275, 30-31=-690/8275, 31-32=-690/8275, 6-32=-690/8275, 6-33=-690/8275, 33-34=-690/8275, 34-35=-690/8275, 5-35=-690/8275, 5-36=-421/4982, 5-36=-421/4982  
WEBS 3-7=-583/323, 4-7=-2121/365, 4-6=-212/1828, 2-7=-3180/390, 2-9=-238/2929

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.  
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.  
Web connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 2-9 2x4 - 1 row at 0-5-0 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=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=10.0 psf (ground snow); Pf=7.7 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - Unbalanced snow loads have been considered for this design.
  - Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
  - 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 528 lb uplift at joint 1 and 518 lb uplift at joint 5.
  - This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
  - This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
  - Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 12-0-0 oc max. starting at 2-0-12 from the left end to 20-0-12 to connect truss(es) A1D (1 ply 2x4 SP), A1F (1 ply 2x4 SP) to back face of bottom chord.
  - Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 6-0-12 from the left end to 14-0-12 to connect truss(es) A2 (1 ply 2x4 SP) to back face of bottom chord.
  - Fill all nail holes where hanger is in contact with lumber.
- LOAD CASE(S) Standard**
- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (lb/ft)  
Vert: 1-3=-45, 3-5=-45, 10-13=-20  
Concentrated Loads (lb)  
Vert: 8=-902 (B), 6=-239 (B), 9=-902 (B), 25=-241 (B), 27=-241 (B), 29=-902 (B), 30=-902 (B), 32=-902 (B), 33=-239 (B), 35=-239 (B)

**NOTES**

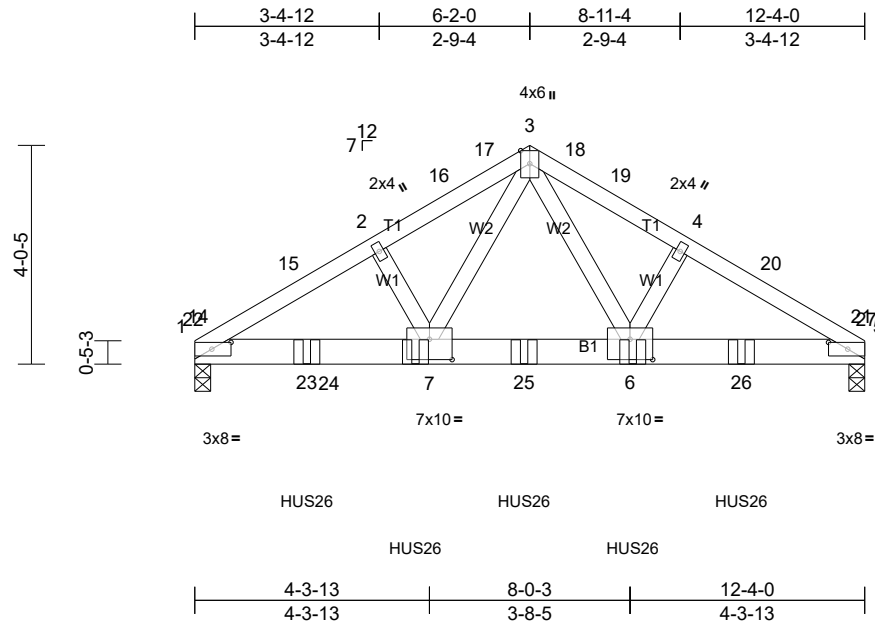
Job 2400040-07818	Truss G02	Truss Type Common Girder	Qty 1	Ply 2	HARRELL RESIDENCE - SCHUMACHER Job Reference (optional)
----------------------	--------------	-----------------------------	----------	----------	--

84 Components, Dunn, NC 28334

Run: 8.72 S Dec 13 2023 Print: 8.720 S Dec 13 2023 MiTek Industries, Inc. Mon Jan 29 11:11:32

Page: 1

ID:9QmJb\_gy2GZKSX?K9KNOxuzul1y-SC8o3YVslvtQKPBHsre8qXyWn64PxWl6ye1sFzqX79



Scale = 1:42.4

Plate Offsets (X, Y): [1:0-4-4,0-1-8], [5:0-4-4,0-1-8], [6:0-5-0,0-4-8], [7:0-5-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.05	6-7	>999	240
Snow (Pf/Pg)	7.7/10.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.11	6-7	>999	180
TCDL	15.0	Rep Stress Incr	NO	WB	0.72	Horz(CT)	0.02	5	n/a	n/a
BCLL	0.0*	Code	IBC2015/TPI2014	Matrix-MS						
BCDL	10.0									
										Weight: 134 lb FT = 20%

- LUMBER**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x6 SP DSS  
WEBS 2x4 SP No.3
- BRACING**  
TOP CHORD Structural wood sheathing directly applied or 4-7-15 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
- REACTIONS** (lb/size) 1=2911/0-3-8, (min. 0-2-2), 5=2861/0-3-8, (min. 0-2-1)  
Max Horiz 1=70 (LC 63)  
Max Uplift 1=-356 (LC 12), 5=-350 (LC 13)  
Max Grav 1=4177 (LC 25), 5=4104 (LC 26)
- FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-14=-3693/294, 1-14=-3678/296, 1-15=-6652/564, 2-15=-6619/573, 2-16=-6581/587, 16-17=-6547/587, 3-17=-6512/595, 3-18=-6508/595, 18-19=-6542/587, 4-19=-6577/587, 4-20=-6615/573, 5-20=-6648/564, 5-21=-3657/296, 5-21=-3672/294  
BOT CHORD 1-22=-327/3662, 1-22=-327/3662, 1-23=-503/5777, 23-24=-503/5777, 7-24=-503/5777, 7-25=-317/4059, 6-25=-317/4059, 6-26=-456/5719, 5-26=-456/5719, 5-27=-289/3600, 5-27=-289/3600  
WEBS 3-6=-335/3600, 4-6=-282/83, 3-7=-335/3608, 2-7=-285/80
- NOTES**  
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.  
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.  
Web connected as follows: 2x4 - 1 row 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=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BC DL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=10.0 psf (ground snow); Pf=7.7 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - Unbalanced snow loads have been considered for this design.
  - Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
  - 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 356 lb uplift at joint 1 and 350 lb uplift at joint 5.
  - This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
  - This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
  - Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 10-0-12 to connect truss(es) A1 (1 ply 2x4 SP) to back face of bottom chord.
  - Fill all nail holes where hanger is in contact with lumber.
- LOAD CASE(S)** Standard

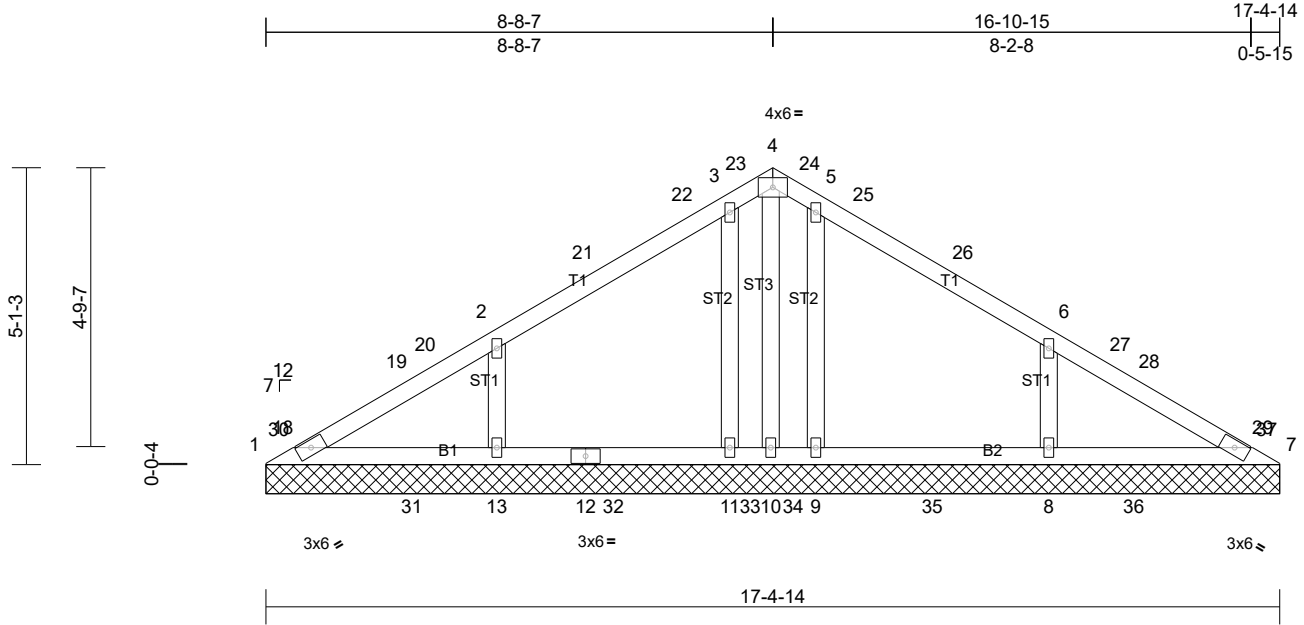
Job 2400040-07818	Truss V1	Truss Type Valley	Qty 1	Ply 1	HARRELL RESIDENCE - SCHUMACHER Job Reference (optional)
----------------------	-------------	----------------------	----------	----------	--

84 Components, Dunn, NC 28334

Run: 8.72 S Dec 13 2023 Print: 8.720 S Dec 13 2023 MiTek Industries, Inc. Mon Jan 29 11:11:33

Page: 1

ID:UJPD7ucTIYzPLk\_nLcNHzuIC?-SC8o3YVslvtQKPBIHsre8qXvhn6pP4Yl6ye1sFzqX79



Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	7.7/10.0	Lumber DOL	1.15	BC	0.49	Vert(TL)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.14	Horiz(TL)	0.00	13	n/a	n/a		
BCLL	0.0*	Code	IBC2015/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 78 lb	FT = 20%

**LUMBER**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
OTHERS 2x4 SP No.3

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

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

**REACTIONS** All bearings 17-4-14.  
(lb) - Max Horiz 1=-95 (LC 12)  
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 8, 9, 11, 13 except 10=-347 (LC 56)  
Max Grav All reactions 250 (lb) or less at joint (s) 10 except 1=301 (LC 45), 7=301 (LC 53), 8=475 (LC 67), 9=543 (LC 59), 11=567 (LC 56), 13=475 (LC 63)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-18=-305/21, 1-18=-293/23, 7-29=-294/14, 7-29=-305/6  
BOT CHORD 1-30=-40/256, 1-30=-39/258, 7-37=-5/259, 7-37=-7/257  
WEBS 2-13=-379/113, 3-11=-348/91, 6-8=-379/113, 5-9=-348/87

**NOTES**  
1) Unbalanced roof live loads have been considered for this design.  
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-7 to 3-0-7, Interior (1) 3-0-7 to 8-8-14, Exterior (2) 8-8-14 to 11-8-14, Interior (1) 11-8-14 to 17-5-5 zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=10.0 psf (ground snow); Pf=7.7 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 1, 13, 11, 8, 9 except (jt=lb) 10=346.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

**LOAD CASE(S)** Standard



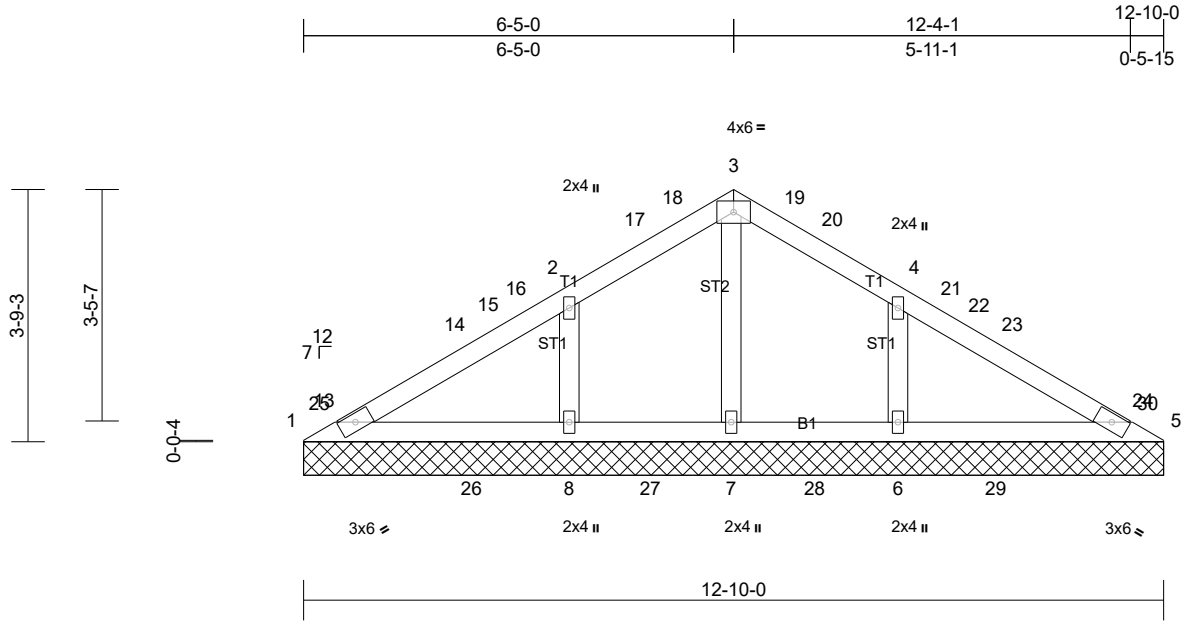
Job 2400040-07818	Truss V2	Truss Type Valley	Qty 1	Ply 1	HARRELL RESIDENCE - SCHUMACHER Job Reference (optional)
----------------------	-------------	----------------------	----------	----------	--

84 Components, Dunn, NC 28334

Run: 8.72 S Dec 13 2023 Print: 8.720 S Dec 13 2023 MiTek Industries, Inc. Mon Jan 29 11:11:33

Page: 1

ID: ywzcrTvEE0hQRjvxYVsrwVzulC\_wPiBGUWUWD?HyZmUrZMth235QASx8YOvLcOaOhzqX78



Scale = 1:34.4

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	7.7/10.0	Lumber DOL	1.15	BC	0.43	Vert(TL)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.10	Horiz(TL)	0.00	8	n/a	n/a		
BCLL	0.0*	Code	IBC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 49 lb	FT = 20%

**LUMBER**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
OTHERS 2x4 SP No.3

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

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

**REACTIONS** All bearings 12-10-0.  
(lb) - Max Horiz 1=70 (LC 12)  
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 5, 6, 8  
Max Grav All reactions 250 (lb) or less at joint (s) except 1=298 (LC 43), 5=298 (LC 49), 6=450 (LC 59), 7=398 (LC 58), 8=450 (LC 57)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-13=-286/28, 1-13=-266/37, 2-16=-39/257, 4-21=-20/254, 5-24=-269/36, 5-24=-288/27  
WEBS 2-8=-360/92, 4-6=-360/91, 3-7=-342/1

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-7 to 3-0-7, Interior (1) 3-0-7 to 6-5-7, Exterior (2) 6-5-7 to 9-5-7, Interior (1) 9-5-7 to 12-10-7 zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=10.0 psf (ground snow); Pf=7.7 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - Unbalanced snow loads have been considered for this design.

- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 1, 5, 8, 6.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

**LOAD CASE(S)** Standard

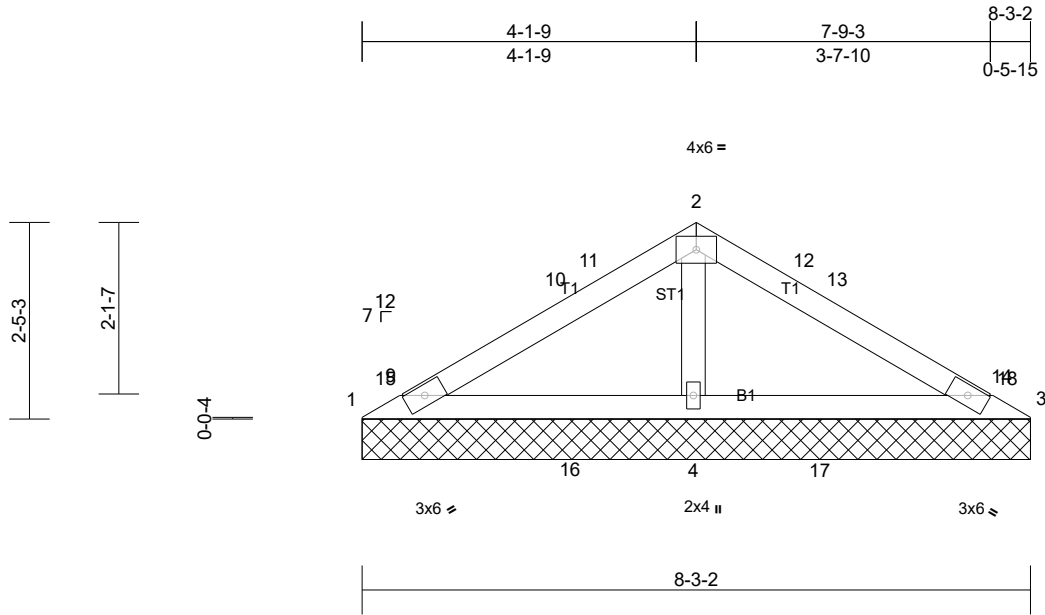
Job 2400040-07818	Truss V3	Truss Type Valley	Qty 1	Ply 1	HARRELL RESIDENCE - SCHUMACHER Job Reference (optional)
----------------------	-------------	----------------------	----------	----------	--

84 Components, Dunn, NC 28334

Run: 8.72 S Dec 13 2023 Print: 8.720 S Dec 13 2023 MiTek Industries, Inc. Mon Jan 29 11:11:33

Page: 1

ID:zyz0R9WkfmTyxdfXAft2ezul3S-wPiBGUWUWD?HyZmUrZMth232cAR28YHvLcOaOhzqX78



Scale = 1:28.5

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	7.7/10.0	Lumber DOL	1.15	BC	0.49	Vert(TL)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.11	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IBC2015/TPI2014	Matrix-MP								
BCDL	10.0											
										Weight: 27 lb	FT = 20%	

#### LUMBER

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
OTHERS 2x4 SP No.3

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 8-3-2 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

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

**REACTIONS** (lb/size) 1=32/8-3-2, (min. 0-1-8),  
3=36/8-3-2, (min. 0-1-8),  
4=472/8-3-2, (min. 0-1-8)  
Max Horiz 1=-44 (LC 12)  
Max Uplift 1=-40 (LC 44), 3=-36 (LC 42),  
4=-60 (LC 16)  
Max Grav 1=275 (LC 41), 3=278 (LC 45),  
4=650 (LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-10=-58/278, 10-11=-48/327, 2-11=-47/345,  
2-12=-44/336, 12-13=-46/317, 3-13=-56/270  
2-4=-474/95

#### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-7 to 3-0-7, Interior (1) 3-0-7 to 4-2-0, Exterior (2) 4-2-0 to 7-3-1, Interior (1) 7-3-1 to 8-3-9 zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- 4) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=10.0 psf (ground snow); Pf=7.7 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- 7) Gable requires continuous bottom chord bearing.
- 8) Gable studs spaced at 4-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 1, 36 lb uplift at joint 3 and 60 lb uplift at joint 4.
- 12) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 13) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

**LOAD CASE(S)** Standard

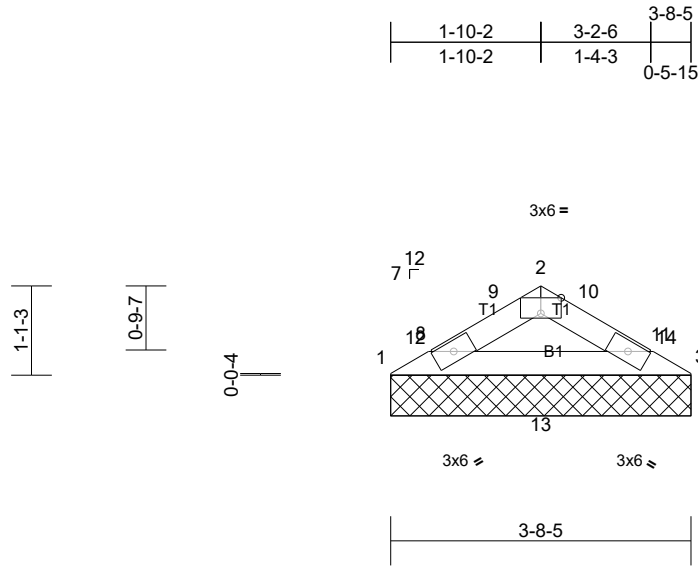
Job 2400040-07818	Truss V4	Truss Type Valley	Qty 1	Ply 1	HARRELL RESIDENCE - SCHUMACHER Job Reference (optional)
----------------------	-------------	----------------------	----------	----------	--

84 Components, Dunn, NC 28334

Run: 8.72 S Dec 13 2023 Print: 8.720 S Dec 13 2023 MiTek Industries, Inc. Mon Jan 29 11:11:34

Page: 1

ID:skCXHXZEJ?zOQFyem?kpCUzul3O-wPiBGUWUWD?HyZmUrZMth238HATW8Z0vLcOaOhzqX78



Scale = 1:28.3

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	7.7/10.0	Lumber DOL	1.15	BC	0.33	Vert(TL)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.01	3	n/a	n/a		
BCLL	0.0*	Code	IBC2015/TPI2014	Matrix-MP								
BCDL	10.0											
										Weight: 10 lb	FT = 20%	

**LUMBER**

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 3-8-5 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) 1=121/3-8-5, (min. 0-1-8), 3=121/3-8-5, (min. 0-1-8)  
Max Horiz 1=18 (LC 15)  
Max Uplift 1=-15 (LC 16), 3=-15 (LC 17)  
Max Grav 1=342 (LC 41), 3=342 (LC 45)

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

TOP CHORD 1-8=-485/43, 1-8=-474/45, 1-9=-391/32, 2-9=-385/36, 2-10=-385/36, 3-10=-391/32, 3-11=-474/45, 3-11=-485/43  
BOT CHORD 1-12=-31/411, 1-12=-30/412, 1-13=-11/366, 3-13=-11/366, 3-14=-30/412, 3-14=-31/411

**NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=10.0 psf (ground snow); Pf=7.7 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.

- Gable requires continuous bottom chord bearing.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 1 and 15 lb uplift at joint 3.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

**LOAD CASE(S)** Standard

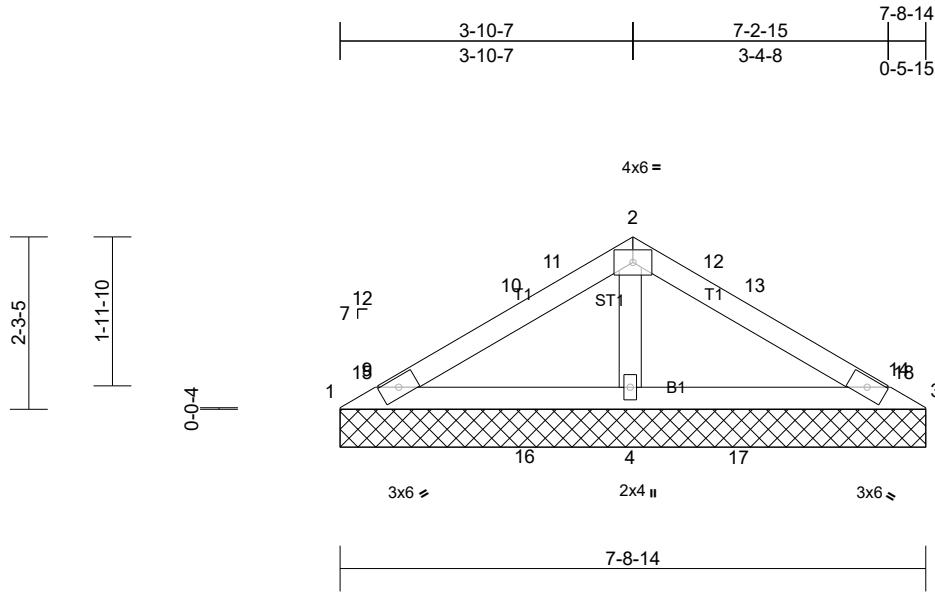
Job 2400040-07818	Truss V5	Truss Type Valley	Qty 1	Ply 1	HARRELL RESIDENCE - SCHUMACHER Job Reference (optional)
----------------------	-------------	----------------------	----------	----------	--

84 Components, Dunn, NC 28334

Run: 8.72 S Dec 13 2023 Print: 8.720 S Dec 13 2023 MiTek Industries, Inc. Mon Jan 29 11:11:34

Page: 1

ID:Ch?QKEdNXxgW0rbZZJ?vXzu3J-ObGZUDX6HX78ajLhPGt6DFcERao0t\_h2aG78w7zqX77



Scale = 1:30.4

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	7.7/10.0	Lumber DOL	1.15	BC	0.44	Vert(TL)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.10	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IBC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 26 lb	FT = 20%

**LUMBER**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
OTHERS 2x4 SP No.3

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 7-8-14 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

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

**REACTIONS** (lb/size)  
1=36/7-8-14, (min. 0-1-8),  
3=40/7-8-14, (min. 0-1-8),  
4=430/7-8-14, (min. 0-1-8)  
Max Horiz 1=-41 (LC 12)  
Max Uplift 1=-36 (LC 44), 3=-31 (LC 42),  
4=-53 (LC 16)  
Max Grav 1=278 (LC 41), 3=281 (LC 45),  
4=605 (LC 38)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-10=-50/256, 10-11=-40/299, 2-11=-38/316,  
2-12=-36/307, 12-13=-39/290  
WEBS 2-4=-438/85

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-7 to 3-0-7, Interior (1) 3-0-7 to 3-10-14, Exterior (2) 3-10-14 to 6-8-12, Interior (1) 6-8-12 to 7-9-5 zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=10.0 psf (ground snow); Pf=7.7 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - Unbalanced snow loads have been considered for this design.

- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 1, 31 lb uplift at joint 3 and 53 lb uplift at joint 4.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

**LOAD CASE(S)** Standard

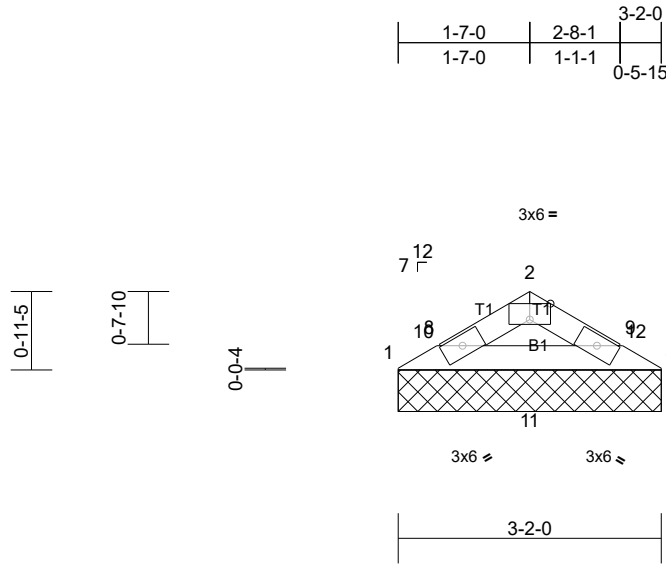
Job 2400040-07818	Truss V6	Truss Type Valley	Qty 1	Ply 1	HARRELL RESIDENCE - SCHUMACHER Job Reference (optional)
----------------------	-------------	----------------------	----------	----------	--

84 Components, Dunn, NC 28334

Run: 8.72 S Dec 13 2023 Print: 8.720 S Dec 13 2023 MiTek Industries, Inc. Mon Jan 29 11:11:34

Page: 1

ID:ZfpJNyhWM4EzdnjZM6vAcbzul3E-ObGZUDX6HX78ajLhPGt6DFcK2aqq?F2aG78w7zqX77



Scale = 1:27.7

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	7.7/10.0	Lumber DOL	1.15	BC	0.26	Vert(TL)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IBC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 8 lb	FT = 20%

**LUMBER**

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 3-2-0 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) 1=104/3-2-0, (min. 0-1-8), 3=104/3-2-0, (min. 0-1-8)  
Max Horiz 1=-15 (LC 12)  
Max Uplift 1=-13 (LC 16), 3=-13 (LC 17)  
Max Grav 1=329 (LC 41), 3=329 (LC 45)

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

TOP CHORD 1-8=-441/36, 1-8=-431/38, 1-2=-395/31, 2-3=-395/31, 3-9=-431/38, 3-9=-441/36  
BOT CHORD 1-10=-24/374, 1-10=-24/376, 1-11=-10/375, 3-11=-10/375, 3-12=-24/376, 3-12=-24/374

**NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=10.0 psf (ground snow); Pf=7.7 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.

- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 13 lb uplift at joint 1 and 13 lb uplift at joint 3.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

**LOAD CASE(S)** Standard

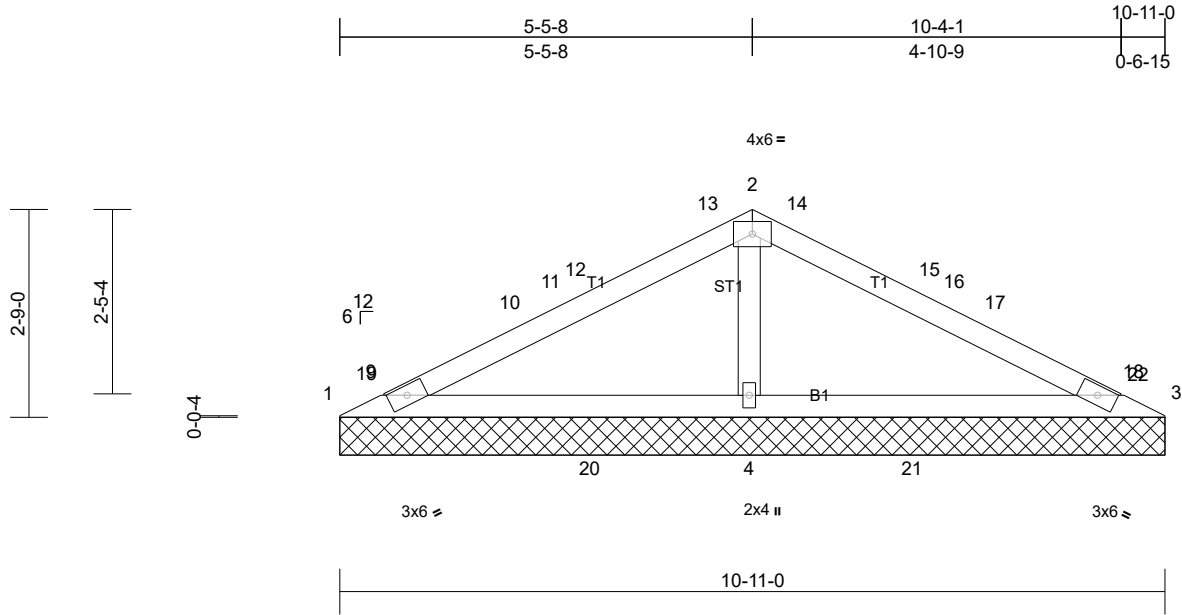
Job 2400040-07818	Truss V7	Truss Type Valley	Qty 1	Ply 1	HARRELL RESIDENCE - SCHUMACHER Job Reference (optional)
----------------------	-------------	----------------------	----------	----------	--

84 Components, Dunn, NC 28334

Run: 8.72 S Dec 13 2023 Print: 8.720 S Dec 13 2023 MiTek Industries, Inc. Mon Jan 29 11:11:34

Page: 1

ID:mSAJiel1rWa2wzaUwK8K1FzulDU-ObGZUDX6HX78ajLhPGt6DFoA?ajhtzr2aG78w7zqX77



Scale = 1:30.5

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	7.7/10.0	Lumber DOL	1.15	BC	0.72	Vert(TL)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.15	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IBC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 36 lb	FT = 20%

**LUMBER**

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
OTHERS 2x4 SP No.3

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

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

**REACTIONS**

(lb/size) 1=29/10-11-0, (min. 0-1-8),  
3=34/10-11-0, (min. 0-1-8),  
4=651/10-11-0, (min. 0-1-8)  
Max Horiz 1=34 (LC 16)  
Max Uplift 1=-46 (LC 39), 3=-42 (LC 42),  
4=-75 (LC 16)  
Max Grav 1=272 (LC 41), 3=276 (LC 45),  
4=896 (LC 2)

**FORCES**

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-10=-93/391, 10-11=-84/408, 11-12=-82/410,  
12-13=-81/473, 2-13=-70/485, 2-14=-67/472,  
14-15=-78/460, 15-16=-78/397,  
16-17=-80/395, 3-17=-89/378, 3-18=-252/157  
BOT CHORD 1-20=-367/117, 4-20=-367/117,  
4-21=-355/114, 3-21=-355/114  
WEBS 2-4=-697/156

**NOTES**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-8 to 3-0-8, Interior (1) 3-0-8 to 5-6-0, Exterior (2) 5-6-0 to 8-6-0, Interior (1) 8-6-0 to 10-11-8 zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=10.0 psf (ground snow); Pf=7.7 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- 6) Gable requires continuous bottom chord bearing.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 1, 42 lb uplift at joint 3 and 75 lb uplift at joint 4.
- 10) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 11) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

**LOAD CASE(S)** Standard

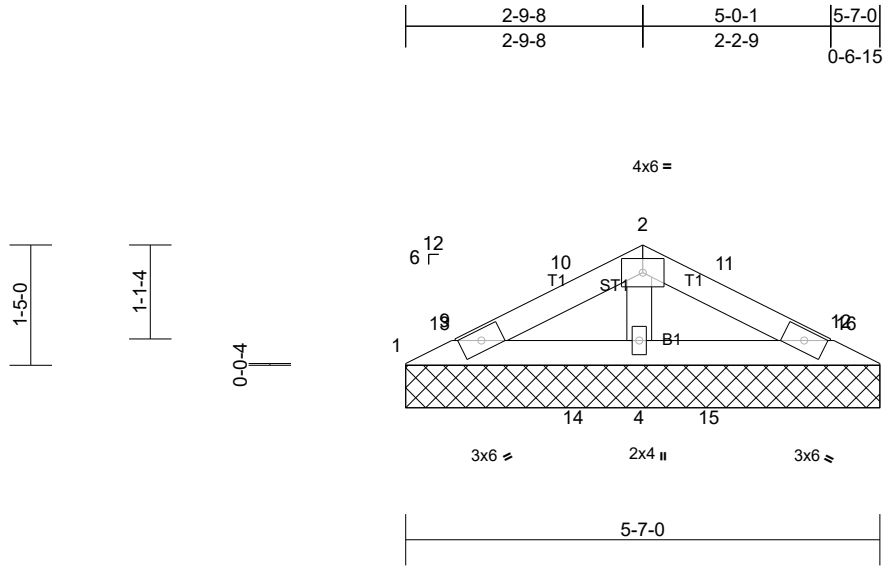
Job 2400040-07818	Truss V8	Truss Type Valley	Qty 1	Ply 1	HARRELL RESIDENCE - SCHUMACHER Job Reference (optional)
----------------------	-------------	----------------------	----------	----------	--

84 Components, Dunn, NC 28334

Run: 8.72 S Dec 13 2023 Print: 8.720 S Dec 13 2023 MiTek Industries, Inc. Mon Jan 29 11:11:35

Page: 1

ID:OpAae?Hyw\_6LiBjiN0asszul38-snxhZxk2qF?Cswtz\_OLmT9UP\_AucRGBowthSazqX76



Scale = 1:27.1

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	7.7/10.0	Lumber DOL	1.15	BC	0.27	Vert(TL)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IBC2015/TPI2014	Matrix-MP								
BCDL	10.0											
										Weight: 17 lb	FT = 20%	

#### LUMBER

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
OTHERS 2x4 SP No.3

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 5-7-0 oc purlins.

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

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

**REACTIONS** (lb/size) 1=45/5-7-0, (min. 0-1-8),  
3=49/5-7-0, (min. 0-1-8),  
4=270/5-7-0, (min. 0-1-8)

Max Horiz 1=-16 (LC 21)

Max Uplift 1=-16 (LC 44), 3=-13 (LC 17),  
4=-27 (LC 16)

Max Grav 1=285 (LC 41), 3=288 (LC 45),  
4=457 (LC 51)

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

**WEBS** 2-4=-348/76

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=10.0 psf (ground snow); Pf=7.7 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.

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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 1, 13 lb uplift at joint 3 and 27 lb uplift at joint 4.

10) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

11) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

**LOAD CASE(S)** Standard