Mark Morris, P.E.
#126, 1317-M, Summerville, SC 29483
843 209-5784, Fax (866)-213-4614

Mark Morris Digitally signed by Mark Morris
Date: 2025-04-27 10:19:01

The truss drawing(s) listed below have been prepared by **Atlantic Building Components** under my direct supervision based on the parameters provided by the truss designers.

AST #: 58878
JOB: 25-3336-F01
JOB NAME: LOT 0.0048 HONEYCUTT HILLS
Wind Code: N/A
Wind Speed: Vult= N/A
Exposure Category: N/A
Mean Roof Height (feet): N/A
These truss designs comply with IRC 2015 as well as IRC 2018.
30 Truss Design(s)

Trusses:
F1-01, F1-02, F1-03, F1-04, F1-05, F1-06, F1-08, F1-09, F1-10, F1-11, F1-12, F1-12A, F1-13, F1-14, F1-15, F1-19, F1-20, F1-21, F1-22, F1-23, F1-24, F1-25, F1-26, F1-27, F1-28, F1-29, F1-

4/25/2025
Mark Morris
My license renewal date for the state of North Carolina is 12/31/2025

Warning !—Verify design parameters and read notes before use.

This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 *National Design Standard for Metal Plate Connected Wood Truss Construction* and BCSI 1-03 Guide to *Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses* from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI

Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS | 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-F01	F1-01	Floor Supported Gable	1	1	Job Reference (optional) **# 58878**

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:18:50 2025 Page 1
ID:5fxLxLn?C6dWjia?SHK4thzkcYI-L2kyAd6nbtcIrtAGHtJcTkZ2Q5jgNQSqNeao5ozMoB3

0-1-8

Scale = 1:21.5

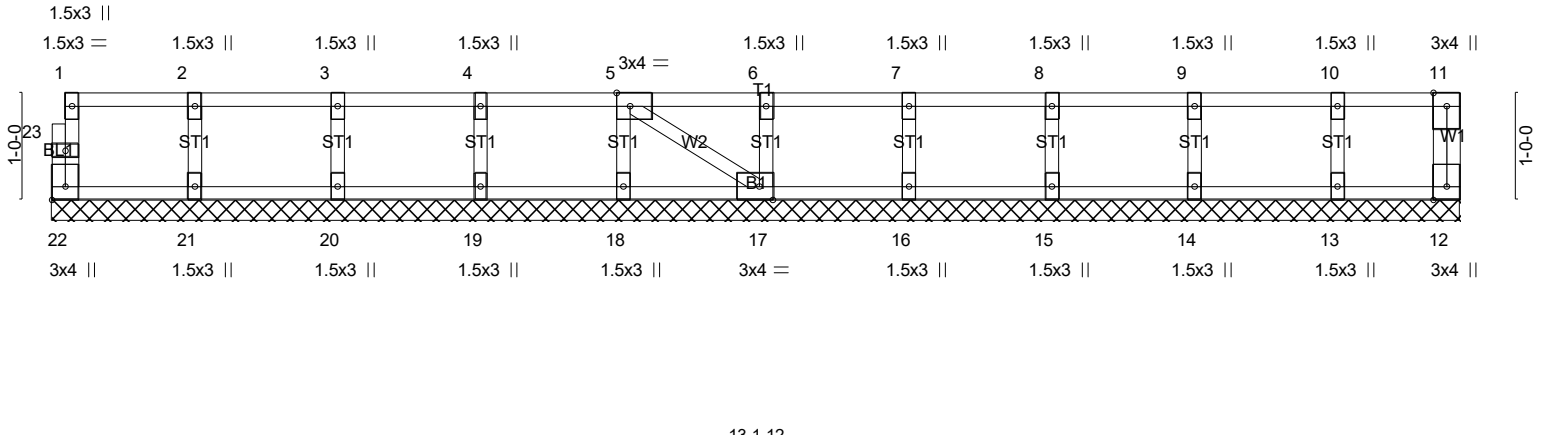


Plate Offsets (X,Y)-- [5:0-1-8,Edge], [17:0-1-8,Edge], [22:Edge,0-1-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	12	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 55 lb	FT = 20%F, 11%E

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

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

REACTIONS. All bearings 13-1-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 12, 21, 20, 19, 18, 17, 16, 15, 14, 13

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

NOTES- (6)
1) Gable requires continuous bottom chord bearing.
2) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
3) Gable studs spaced at 1-4-0 oc.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

4/25/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS | 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-F01	F1-02	Floor	5	1	Job Reference (optional) **# 58878**

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:18:51 2025 Page 1
ID:5fxLxLn?C6dWjia?SHK4thzkcYl-pElKNz7PMAl9S1lSqbrr?y68YUxa6lrzclJLeEzMoB2

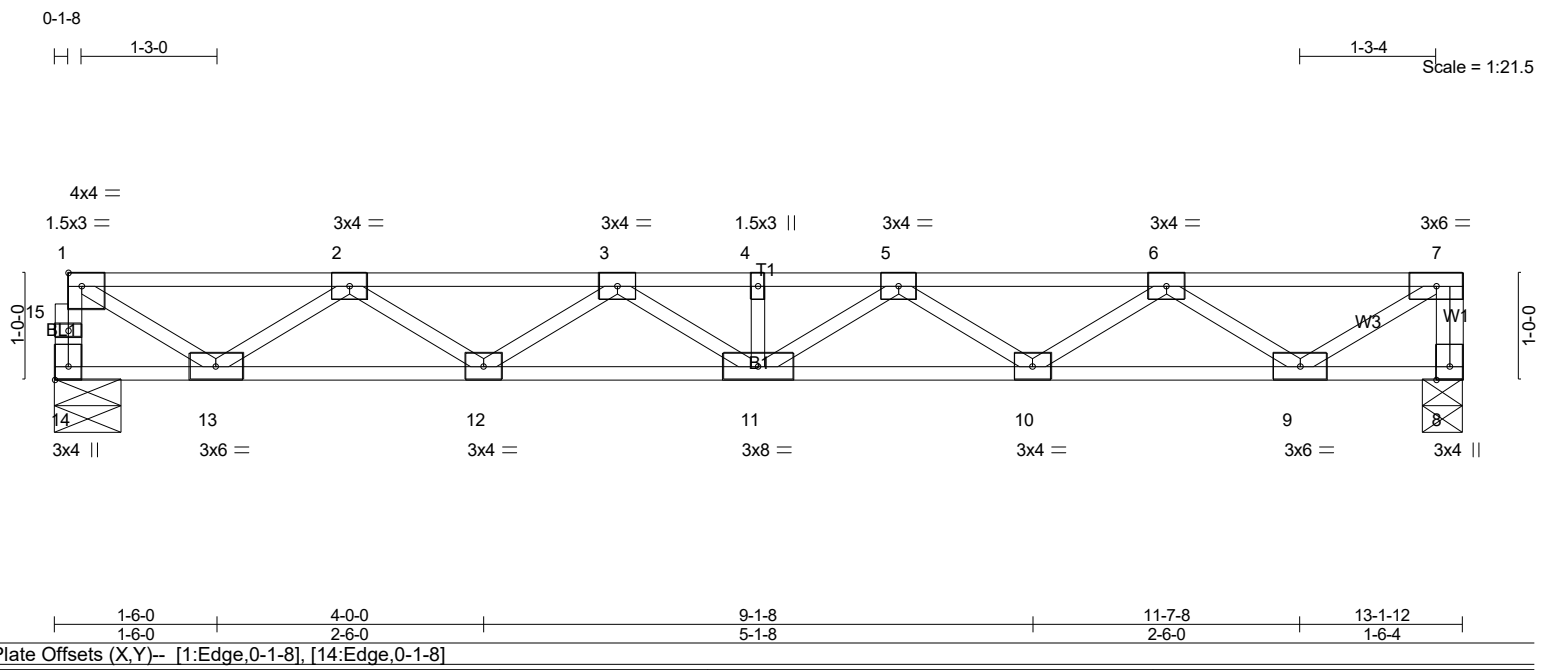


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [14:Edge,0-1-8]

LOADING (psf)		**SPACING-** 2-0-0		**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.35	Vert(LL)	-0.12	11	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.54	Vert(CT)	-0.17	11	>938	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.53	Horz(CT)	0.03	8	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 66 lb	FT = 20%F, 11%E

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

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

REACTIONS. (lb/size) 14=703/0-7-8 (min. 0-1-8), 8=1109/0-4-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 14-15=-698/0, 1-15=-696/0, 7-8=-1102/0, 1-2=-940/0, 2-3=-2158/0, 3-4=-2605/0, 4-5=-2605/0, 5-6=-2166/0, 6-7=-950/0
BOT CHORD 12-13=0/1759, 11-12=0/2521, 10-11=0/2523, 9-10=0/1772
WEBS 1-13=0/1070, 2-13=-1000/0, 2-12=0/487, 3-12=-443/0, 5-10=-436/0, 6-10=0/481, 6-9=-1004/0, 7-9=0/1121

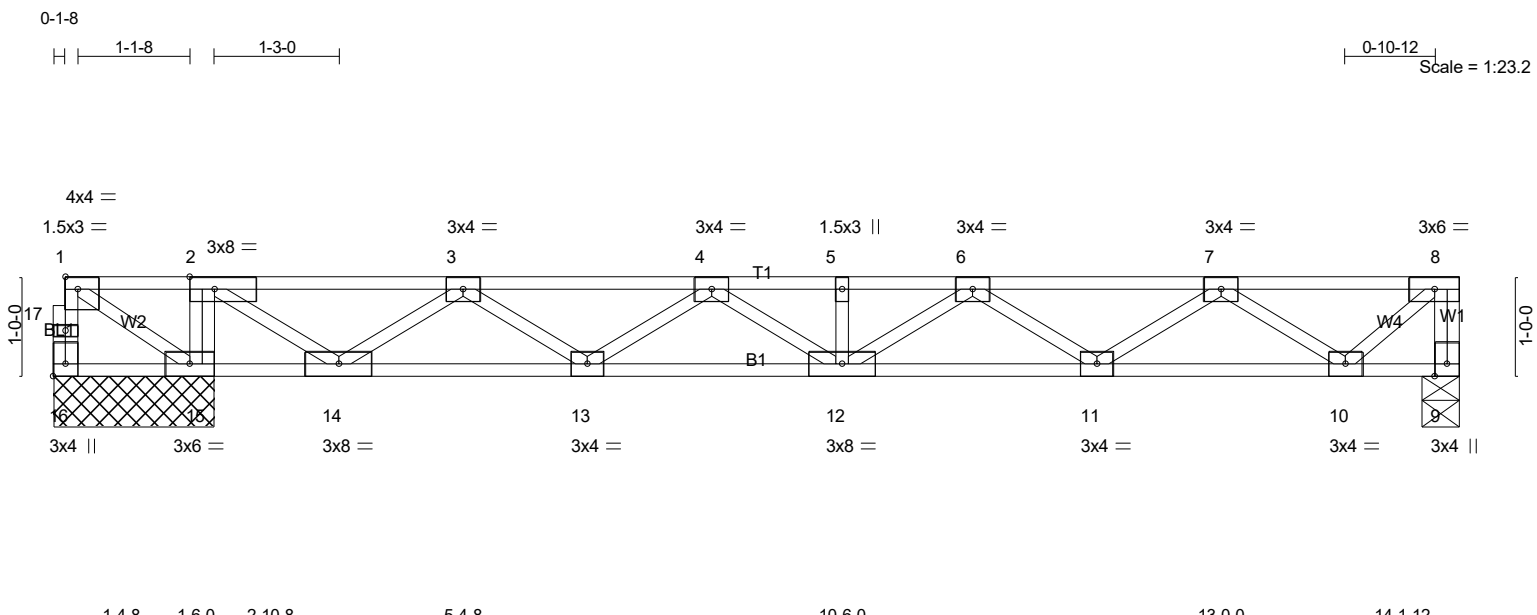
NOTES- (4)
1) Load case(s) 1, 2 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
3) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 8-14=-10, 1-7=-100
Concentrated Loads (lb)
Vert: 7=-400
2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 8-14=-10, 1-7=-100
Concentrated Loads (lb)
Vert: 7=-400

4/25/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS | 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-F01	F1-03	Floor	1	1	Job Reference (optional) **# 58878**

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:18:51 2025 Page 1
ID:5fxLxLn?C6dWjia?SHK4thzkcYI-pEIKNz7PMAl9S1ISqbrr?y64tU_f6k9zclJLeEzMoB2



1-4-8	1-6-0	2-10-8	5-4-8	10-6-0	13-0-0	14-1-12
1-4-8	0-1-8	1-4-8	2-6-0	5-1-8	2-6-0	1-1-12

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [2:0-3-0,Edge], [16:Edge,0-1-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.59	Vert(LL)	-0.07	12	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.34	Vert(CT)	-0.10	12	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.01	9	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 73 lb	FT = 20%F, 11%E

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 15-16,14-15.

REACTIONS. (lb/size) 16=-964/1-7-8 (min. 0-1-8), 9=575/0-4-8 (min. 0-1-8), 15=1911/1-7-8 (min. 0-1-8)
Max Uplift16=-1011(LC 4)
Max Grav 9=575(LC 4), 15=1911(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 16-17=0/1005, 1-17=0/1003, 8-9=-572/0, 1-2=0/1536, 2-3=0/514, 3-4=-954/0, 4-5=-1670/0, 5-6=-1670/0, 6-7=-1498/0, 7-8=-564/0
BOT CHORD 14-15=-1536/0, 13-14=0/413, 12-13=0/1456, 11-12=0/1734, 10-11=0/1227
WEBS 2-15=-891/0, 1-15=-1760/0, 2-14=0/1213, 3-14=-1129/0, 3-13=0/663, 4-13=-615/0, 4-12=0/257, 6-11=-288/0, 7-11=0/332, 7-10=-809/0, 8-10=0/743

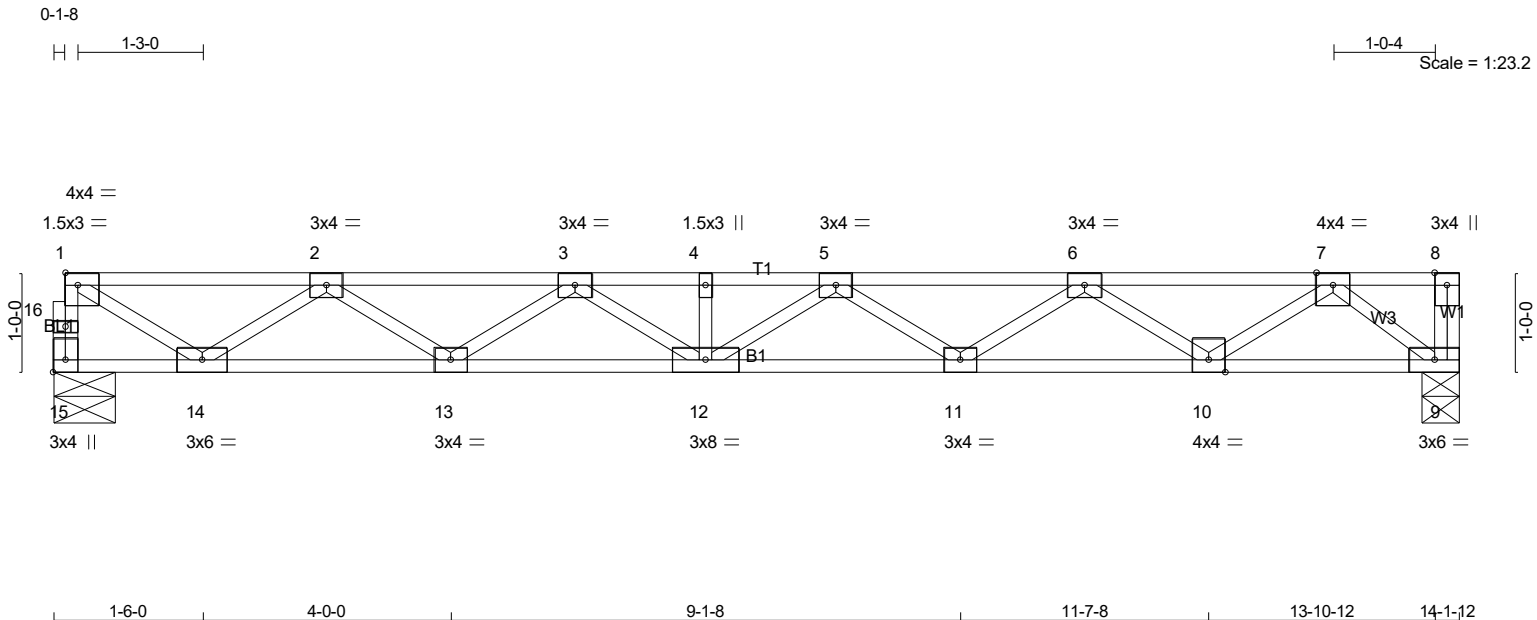
NOTES- (6)
1) Unbalanced floor live loads have been considered for this design.
2) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1011 lb uplift at joint 16.
3) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

4/25/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS | 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-F01	F1-04	Floor	8	1	Job Reference (optional) **# 58878**

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:18:51 2025 Page 1
ID:5fxLxLn?C6dWjia?SHK4thzkcYI-pEIKNz7PMAI9S1ISqbrr?y69LUwu6lUzclJLeEzMoB2



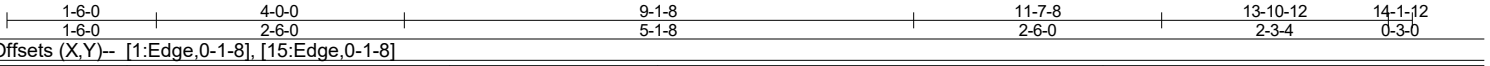


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [15:Edge,0-1-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.30	Vert(LL)	-0.16	12	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.58	Vert(CT)	-0.22	11-12	>764	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 71 lb	FT = 20%F, 11%E

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

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

REACTIONS. (lb/size) 15=758/0-7-8 (min. 0-1-8), 9=764/0-4-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 15-16=-753/0, 1-16=-751/0, 1-2=-1026/0, 2-3=-2400/0, 3-4=-3005/0, 4-5=-3005/0, 5-6=-2721/0, 6-7=-1692/0
BOT CHORD 13-14=0/1923, 12-13=0/2841, 11-12=0/3013, 10-11=0/2396, 9-10=0/950
WEBS 1-14=0/1168, 2-14=-1095/0, 2-13=0/583, 3-13=-539/0, 5-11=-356/0, 6-11=0/398, 6-10=-859/0, 7-10=0/905, 7-9=-1196/0

NOTES- (3)
1) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
2) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

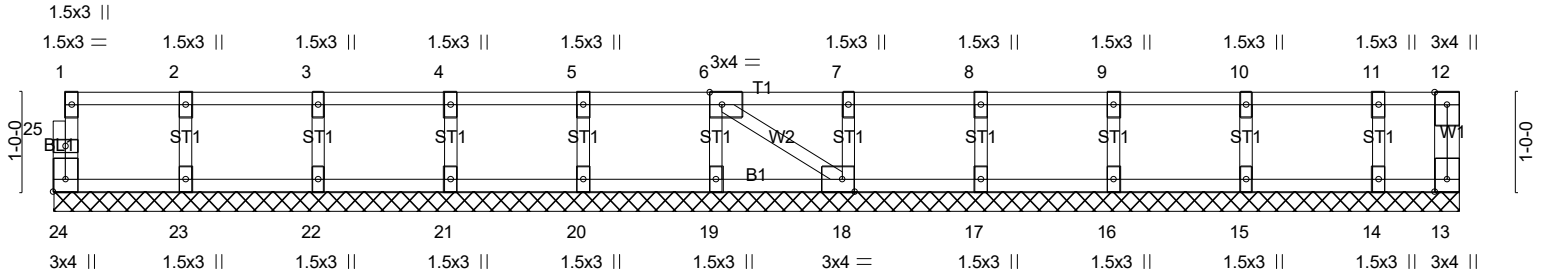
4/25/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS | 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-F01	F1-05	Floor Supported Gable	1	1	Job Reference (optional) **# 58878**

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:18:51 2025 Page 1
ID:5fxLxLn?C6dWjia?SHK4thzkcYI-pEIKNz7PMAl9S1ISqbrr?y6D9U3v6thzclJLeEzMoB2

0-1-8

Scale = 1:23.2



14-1-12
14-1-12

Plate Offsets (X,Y)-- [6:0-1-8,Edge], [18:0-1-8,Edge], [24:Edge,0-1-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	13	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 59 lb	FT = 20%F, 11%E

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

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

REACTIONS. All bearings 14-1-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 24, 13, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14

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

NOTES- (6)
1) Gable requires continuous bottom chord bearing.
2) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
3) Gable studs spaced at 1-4-0 oc.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

4/25/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS | 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-F01	F1-06	GABLE	1	1	Job Reference (optional) **# 58878**

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:18:52 2025 Page 1
ID:5fxLxLn?C6dWjia?SHK4thzkcYI-HQsibJ817Ut04BKeOIM4Y9eNVuP6rKr7qy3vAhzMoB1

Scale = 1:12.7

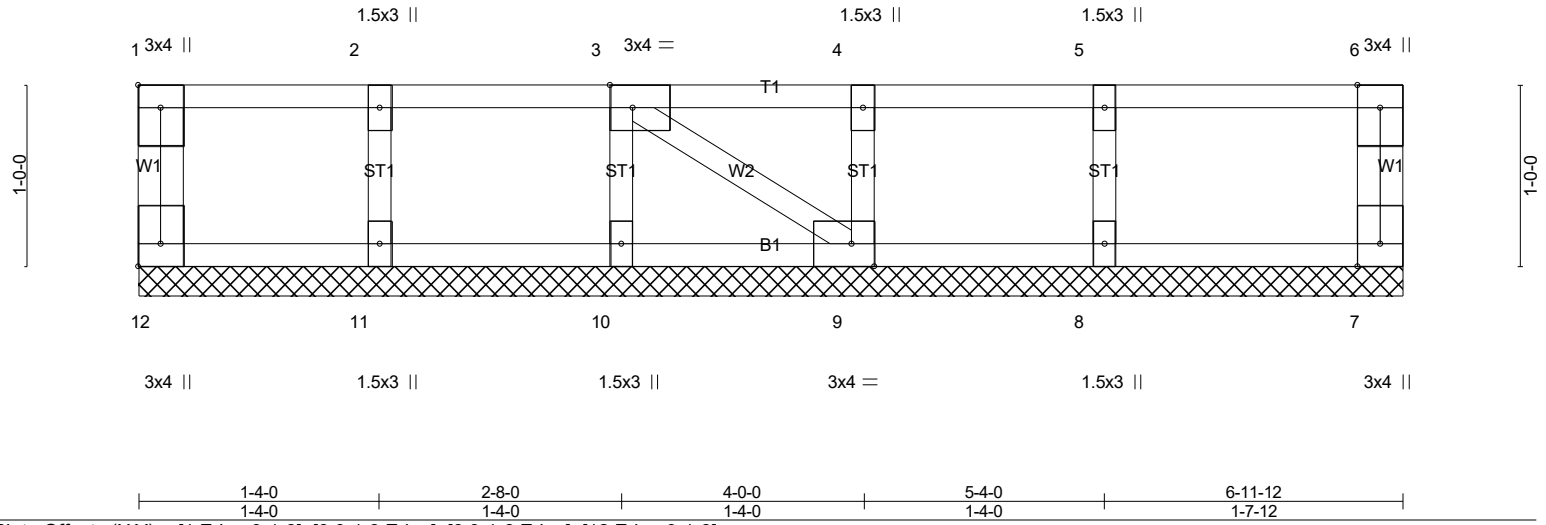


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [3:0-1-8,Edge], [9:0-1-8,Edge], [12:Edge,0-1-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	-0.00	9	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-P							Weight: 32 lb	FT = 20%F, 11%E

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-11-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 6-11-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 12, 7, 11, 10, 9, 8

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

NOTES- (5)
1) Gable requires continuous bottom chord bearing.
2) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
3) Gable studs spaced at 1-4-0 oc.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

4/25/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS | 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-F01	F1-08	Floor	3	1	Job Reference (optional) **# 58878**

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:18:52 2025 Page 1
ID:5fxLxLn?C6dWjia?SHK4thzkcYI-HQsibJ817Ut04BKeOIM4Y9eJNuLtrEh7qy3vAhzMoB1

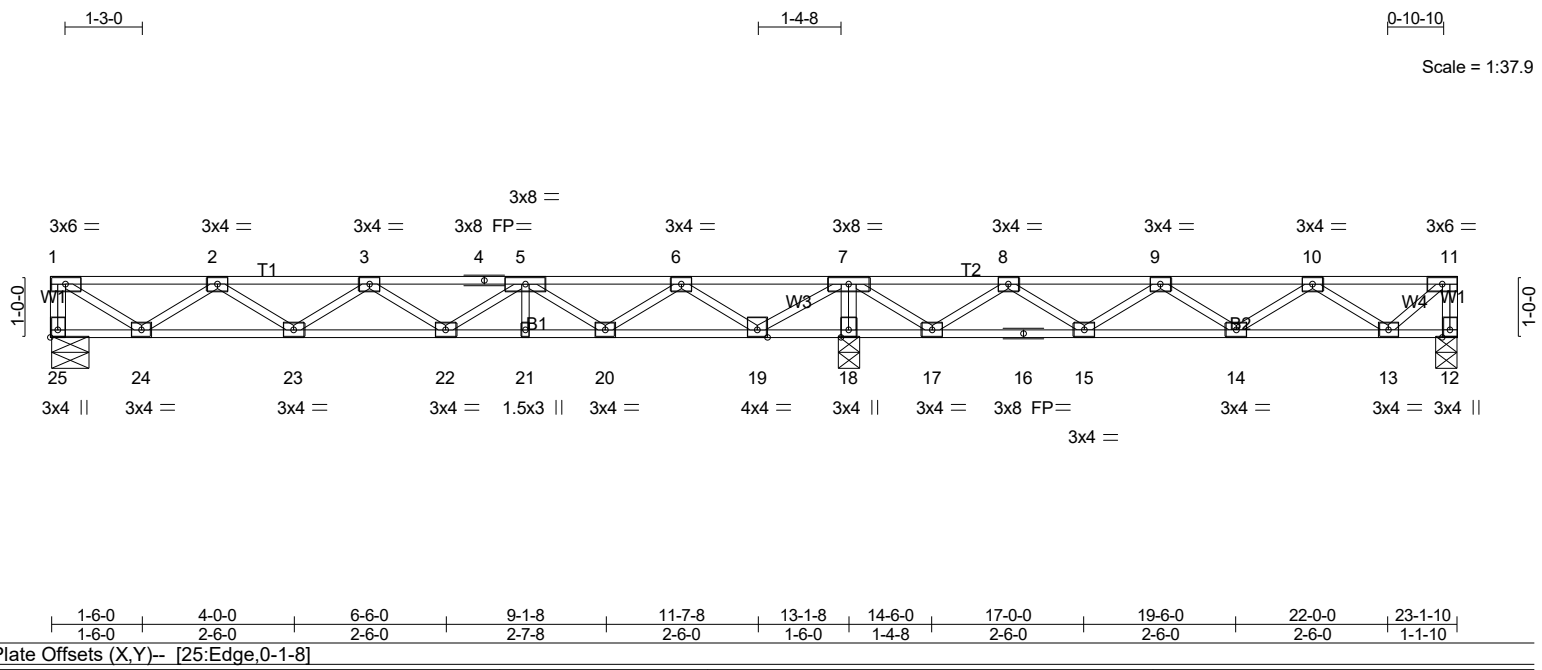


Plate Offsets (X,Y)-- [25:Edge,0-1-8]

LOADING (psf)		**SPACING-**	1-4-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.35	Vert(LL)	-0.06	22	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.28	Vert(CT)	-0.08	22	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.43	Horz(CT)	0.01	18	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 115 lb	FT = 20%F, 11%E

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

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

REACTIONS. (lb/size) 25=384/0-7-8 (min. 0-1-8), 12=641/0-4-6 (min. 0-1-8), 18=1653/0-4-8 (min. 0-1-8)
Max Grav 25=405(LC 3), 12=702(LC 4), 18=1653(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-25=-400/0, 11-12=-700/0, 1-2=-517/0, 2-3=-1144/0, 3-4=-1217/0, 4-5=-1217/0, 5-6=-750/59, 6-7=0/514, 7-8=0/779, 8-9=-544/384, 9-10=-676/123, 10-11=-278/10
BOT CHORD 23-24=0/969, 22-23=0/1296, 21-22=0/1111, 20-21=0/1111, 19-20=-210/380, 18-19=-1296/0, 17-18=-1305/0, 16-17=-567/339, 15-16=-567/339, 14-15=-228/724, 13-14=-42/604
WEBS 7-18=-1624/0, 1-24=0/613, 2-24=-551/0, 5-20=-474/0, 6-20=0/491, 6-19=-793/0, 7-19=0/907, 7-17=0/704, 8-17=-653/0, 8-15=0/363, 9-15=-331/0, 10-13=-397/39, 11-13=-14/368

NOTES- (5)
1) Unbalanced floor live loads have been considered for this design.
2) Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-25=-7, 1-11=-67
Concentrated Loads (lb)
Vert: 7=-600 11=-400
2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-25=-7, 1-11=-67
Concentrated Loads (lb)
Vert: 7=-600 11=-400
3) 1st Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-25=-7, 1-7=-67, 7-11=-13

4/25/2025

Continued on page 2

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 7=-600 11=-400
4) 2nd Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-25=-7, 1-7=-13, 7-11=-67
Concentrated Loads (lb)
Vert: 7=-600 11=-400
5) 3rd unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-25=-7, 1-7=-67, 7-11=-13
Concentrated Loads (lb)
Vert: 7=-600 11=-400
6) 4th unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-25=-7, 1-7=-13, 7-11=-67
Concentrated Loads (lb)
Vert: 7=-600 11=-400

4/25/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS | 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-F01	F1-09	Floor Supported Gable	1	1	Job Reference (optional) **# 58878**

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:18:52 2025 Page 1
ID:5fxLxLn?C6dWjia?SHK4thzkcYI-HQsibJ817Ut04BKeOIM4Y9eNmuP7rKv7qy3vAhzMoB1

Scale = 1:37.3

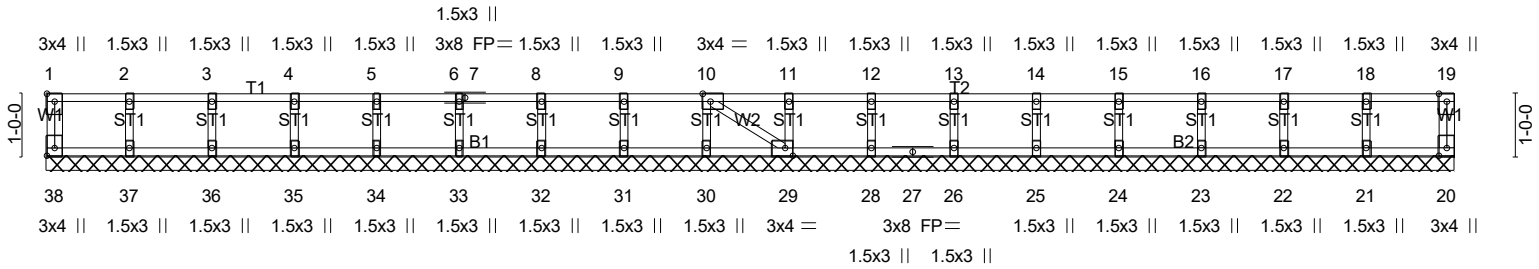


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [10:0-1-8,Edge], [29:0-1-8,Edge], [38:Edge,0-1-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	26	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 92 lb	FT = 20%F, 11%E

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

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

REACTIONS. All bearings 22-9-2.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 38, 20, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 26, 25, 24, 23, 22, 21

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

NOTES- (5)
1) Gable requires continuous bottom chord bearing.
2) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
3) Gable studs spaced at 1-4-0 oc.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

4/25/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS | 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-F01	F1-10	Floor	6	1	Job Reference (optional) **# 58878**

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:18:53 2025 Page 1
ID:5fxLxLn?C6dWjia?SHK4thzkcYI-ldP5oe8fuo?tiLvqy0tJ5NBK6IgiagXG3coSi7zMoB0

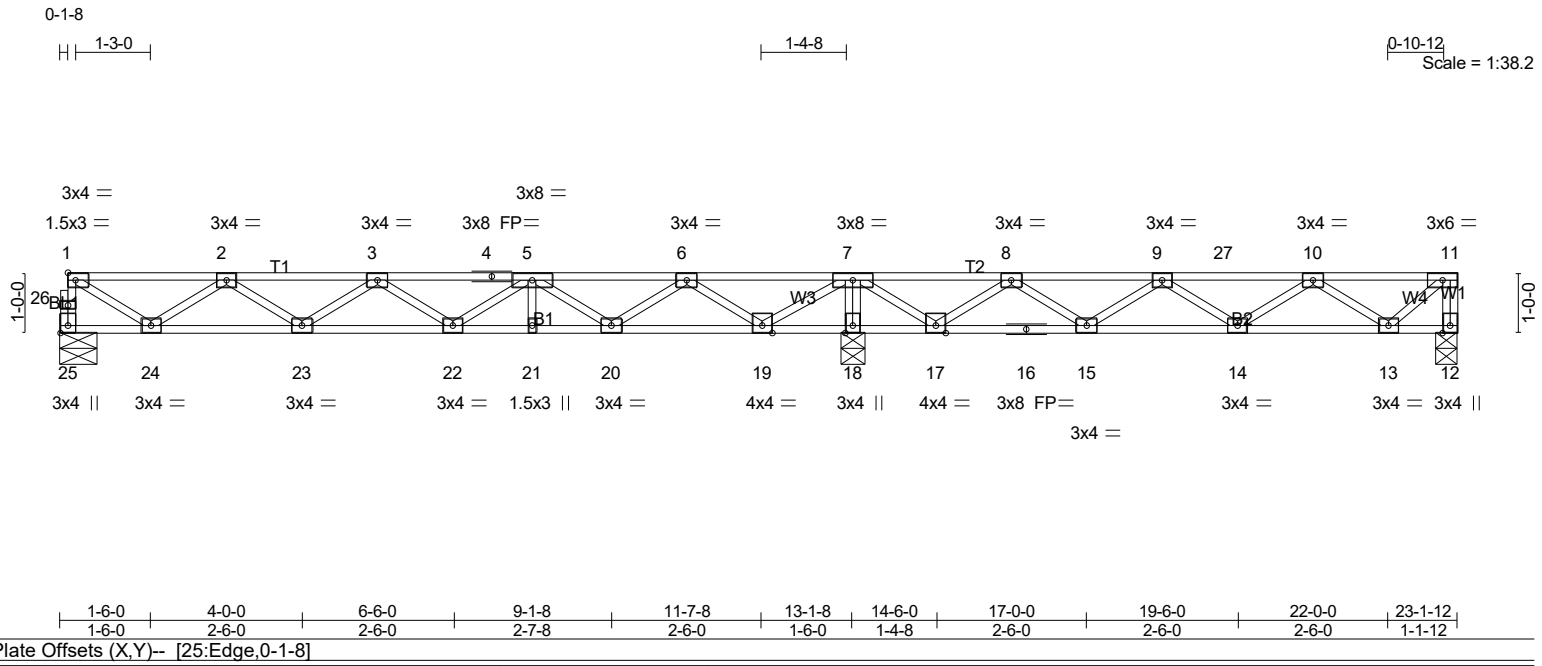


Plate Offsets (X,Y)-- [25:Edge,0-1-8]

LOADING (psf)		**SPACING-**	1-4-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.99	Vert(LL)	-0.06	22	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.31	Vert(CT)	-0.07	22	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.46	Horz(CT)	0.01	12	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 115 lb	FT = 20%F, 11%E

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-8-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) 25=363/0-7-8 (min. 0-1-8), 12=427/0-4-8 (min. 0-1-8), 18=1820/0-4-8 (min. 0-1-8)
Max Grav 25=384(LC 3), 12=489(LC 4), 18=1820(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 25-26=-380/0, 1-26=-380/0, 11-12=-486/0, 1-2=-493/0, 2-3=-1070/0, 3-4=-1095/0, 4-5=-1095/0, 5-6=-578/232, 6-7=0/732, 7-8=0/803, 8-9=-981/0, 9-27=-1297/0, 10-27=-1297/0, 10-11=-525/0
BOT CHORD 23-24=0/917, 22-23=0/1198, 21-22=-72/965, 20-21=-72/965, 19-20=-409/183, 18-19=-1537/0, 17-18=-1546/0, 16-17=-392/513, 15-16=-392/513, 14-15=0/1424, 13-14=0/1149
WEBS 7-18=-1788/0, 1-24=0/560, 2-24=-518/0, 5-20=-505/0, 6-20=0/522, 6-19=-819/0, 7-19=0/932, 7-17=0/961, 8-17=-896/0, 8-15=0/683, 9-15=-651/0, 10-13=-762/0, 11-13=0/691

NOTES- (5)
1) Unbalanced floor live loads have been considered for this design.
2) Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) CAUTION, Do not erect truss backwards.

LOAD CASE(S)
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-25=-7, 1-11=-67
Concentrated Loads (lb)
Vert: 7=-600 27=-335
2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-25=-7, 1-11=-67
Concentrated Loads (lb)
Vert: 7=-600 27=-335
3) 1st Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00

Continued on page 2

4/25/2025

LOAD CASE(S)

Uniform Loads (plf)
Vert: 12-25=-7, 1-7=-67, 7-11=-13
Concentrated Loads (lb)
Vert: 7=-600 27=-335

4) 2nd Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-25=-7, 1-7=-13, 7-11=-67
Concentrated Loads (lb)
Vert: 7=-600 27=-335

5) 3rd unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-25=-7, 1-7=-67, 7-11=-13
Concentrated Loads (lb)
Vert: 7=-600 27=-335

6) 4th unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-25=-7, 1-7=-13, 7-11=-67
Concentrated Loads (lb)
Vert: 7=-600 27=-335

4/25/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS | 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-F01	F1-11	Floor	3	1	Job Reference (optional) **# 58878**

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:18:53 2025 Page 1
ID:5fxLxLn?C6dWjia?SHK4thzkcYI-ldP5oe8fuo?tiLvqy0tJ5NBVIlhVahwG3coSi7zMoB0

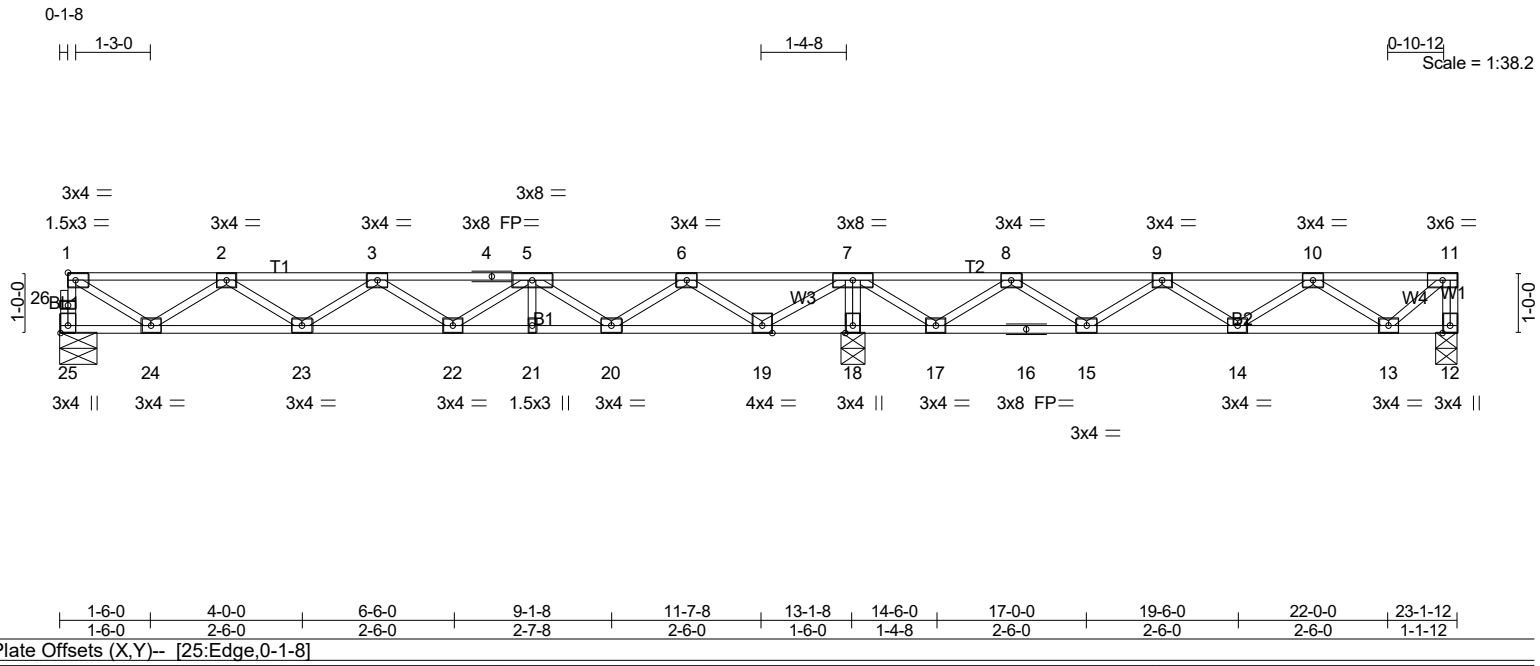


Plate Offsets (X,Y)-- [25:Edge,0-1-8]

LOADING (psf)		**SPACING-**	1-4-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.31	Vert(LL)	-0.06	22	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.25	Vert(CT)	-0.08	22	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.01	18	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 115 lb	FT = 20%F, 11%E

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

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

REACTIONS. (lb/size) 25=380/0-7-8 (min. 0-1-8), 12=241/0-4-8 (min. 0-1-8), 18=1054/0-4-8 (min. 0-1-8)
Max Grav 25=400(LC 3), 12=303(LC 4), 18=1054(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 25-26=-397/0, 1-26=-396/0, 11-12=-301/0, 1-2=-519/0, 2-3=-1143/0, 3-4=-1216/0, 4-5=-1216/0, 5-6=-748/62, 6-7=0/516, 7-8=0/778, 8-9=-545/384, 9-10=-678/123, 10-11=-281/10
BOT CHORD 23-24=0/967, 22-23=0/1295, 21-22=0/1109, 20-21=0/1109, 19-20=-213/379, 18-19=-1300/0, 17-18=-1306/0, 16-17=-566/339, 15-16=-566/339, 14-15=-228/726, 13-14=-42/607
WEBS 7-18=-1027/0, 1-24=0/589, 2-24=-547/0, 5-20=-475/0, 6-20=0/491, 6-19=-793/0, 7-19=0/909, 7-17=0/706, 8-17=-653/0, 8-15=0/363, 9-15=-332/0, 10-13=-397/39, 11-13=-13/371

NOTES- (4)
1) Unbalanced floor live loads have been considered for this design.
2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
3) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

4/25/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS | 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-F01	F1-12	Floor	2	1	Job Reference (optional) **# 58878**

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:18:54 2025 Page 1
ID:5fxLxLn?C6dWjia?SHK4thzkcYI-DpzT0_9Hf57kJUU1WjOYdajfXi0RJ7tQIGY0EZzMoB?

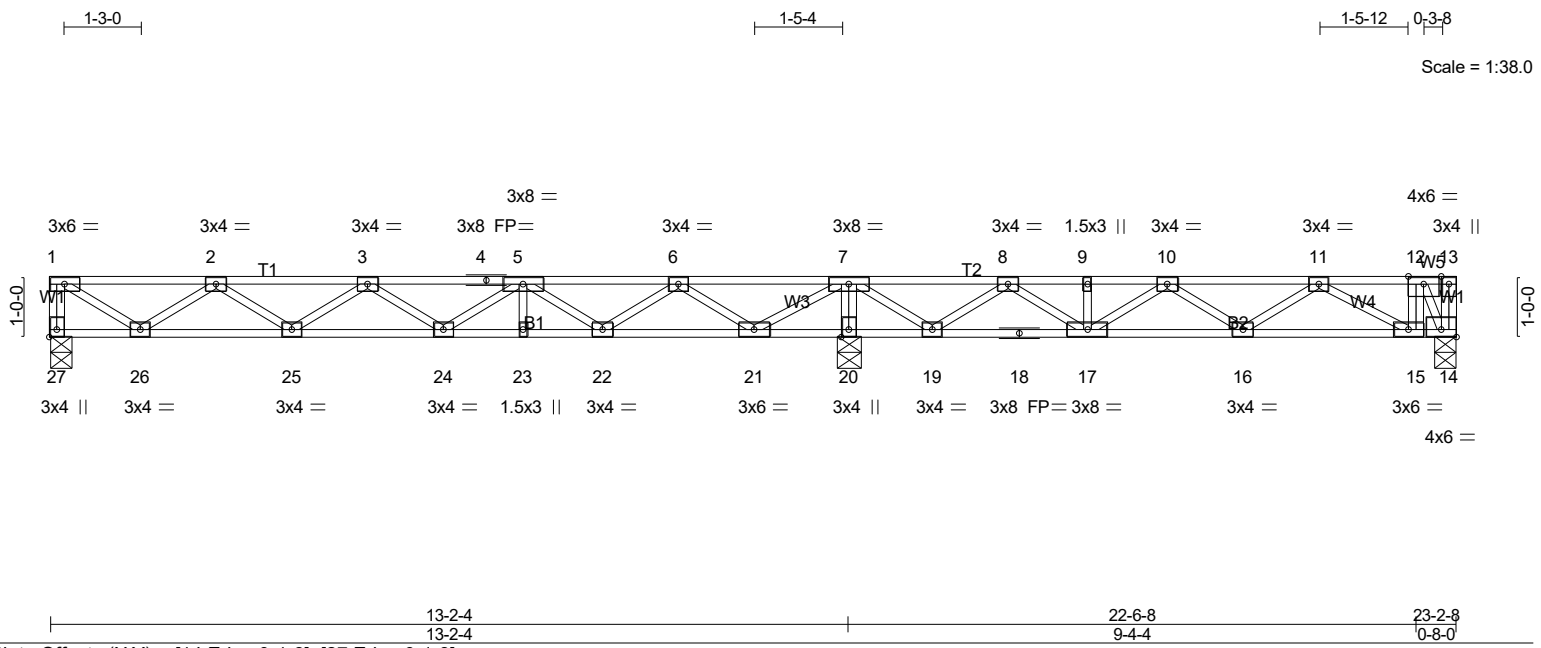


Plate Offsets (X,Y)-- [14:Edge,0-1-8], [27:Edge,0-1-8]

LOADING (psf)		**SPACING-** 1-4-0		**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.37	Vert(LL)	-0.06	24	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.27	Vert(CT)	-0.08	24	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.45	Horz(CT)	0.01	14	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 119 lb	FT = 20%F, 11%E

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

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

REACTIONS. (lb/size) 27=379/0-4-8 (min. 0-1-8), 20=1121/0-4-8 (min. 0-1-8), 14=1049/0-4-8 (min. 0-1-8)
Max Grav 27=400(LC 3), 20=1121(LC 1), 14=1111(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-27=-395/0, 1-2=-509/0, 2-3=-1122/0, 3-4=-1180/0, 4-5=-1180/0, 5-6=-698/127, 6-7=0/582, 7-8=0/802, 8-9=-718/224, 9-10=-718/224, 10-11=-978/0, 11-12=-672/0
BOT CHORD 25-26=0/954, 24-25=0/1266, 23-24=0/1066, 22-23=0/1066, 21-22=-288/322, 20-21=-1408/0, 19-20=-1417/0, 18-19=-513/394, 17-18=-513/394, 16-17=0/960, 15-16=0/968, 14-15=0/672
WEBS 7-20=-1093/0, 1-26=0/604, 2-26=-542/0, 5-22=-483/0, 6-22=0/499, 6-21=-804/0, 7-21=0/948, 7-19=0/804, 8-19=-744/0, 8-17=0/514, 10-17=-399/0, 11-15=-338/154, 12-14=-1277/0

NOTES- (5)
1) Unbalanced floor live loads have been considered for this design.
2) Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 14-27=-7, 1-13=-67
Concentrated Loads (lb)
Vert: 12=-865
2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 14-27=-7, 1-13=-67
Concentrated Loads (lb)
Vert: 12=-865
3) 1st Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 14-27=-7, 1-7=-67, 7-13=-13

4/25/2025

Continued on page 2

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 12=-865
4) 2nd Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 14-27=-7, 1-7=-13, 7-13=-67
Concentrated Loads (lb)
Vert: 12=-865
5) 3rd unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 14-27=-7, 1-7=-67, 7-13=-13
Concentrated Loads (lb)
Vert: 12=-865
6) 4th unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 14-27=-7, 1-7=-13, 7-13=-67
Concentrated Loads (lb)
Vert: 12=-865

4/25/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS | 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-F01	F1-12A	Floor	7	1	Job Reference (optional) **# 58878**

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:18:54 2025 Page 1
ID:5fxLxLn?C6dWjia?SHK4thzkcYI-DpzT0_9Hf57kJUU1WjOYdajdyi_JJ5EQIGY0EZzMoB?

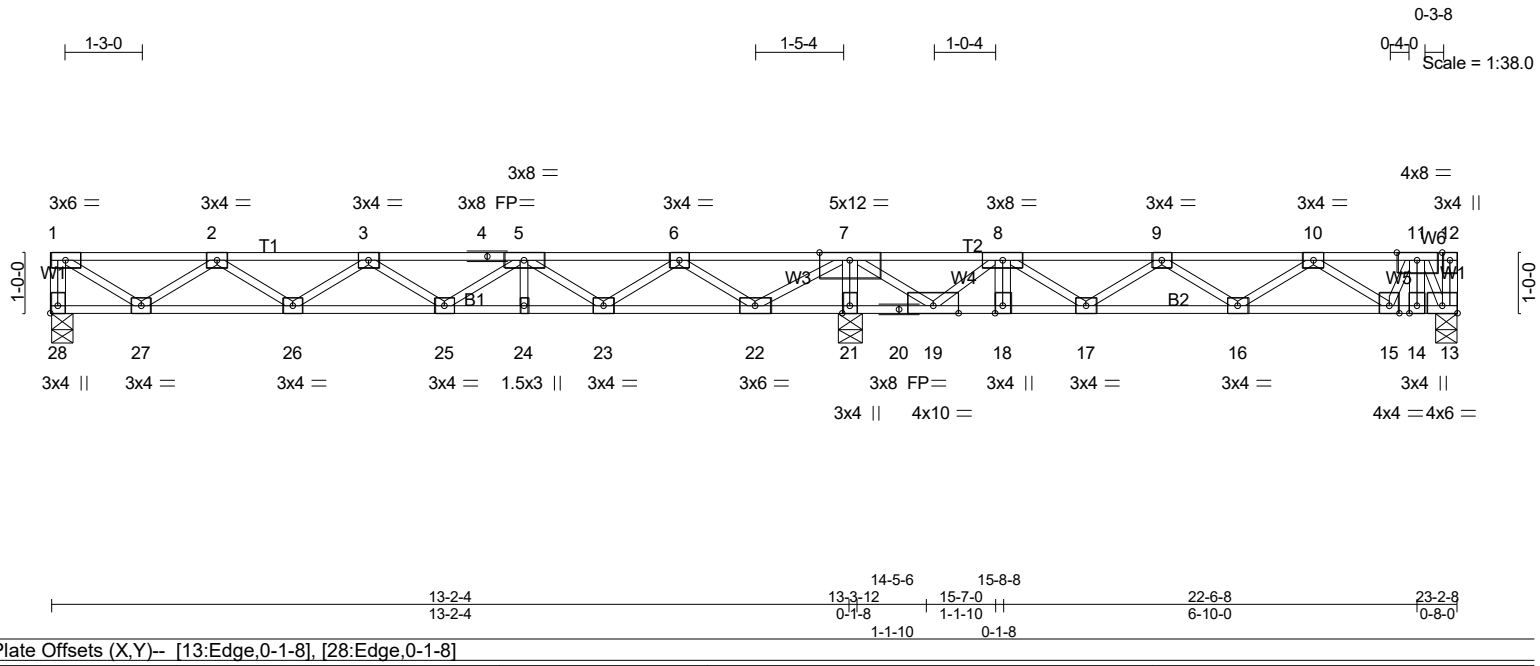


Plate Offsets (X,Y)-- [13:Edge,0-1-8], [28:Edge,0-1-8]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.47	Vert(LL)	-0.06	25	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.41	Vert(CT)	-0.08	16-17	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.62	Horz(CT)	0.01	13	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 120 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat) *Except*
W2: 2x4 SP No.2(flat)

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

REACTIONS. (lb/size) 28=331/0-4-8 (min. 0-1-8), 21=1926/0-4-8 (min. 0-1-8), 13=1223/0-4-8 (min. 0-1-8)
Max Grav 28=351(LC 3), 21=1926(LC 1), 13=1286(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-28=-347/0, 1-2=-434/0, 2-3=-910/37, 3-4=-831/245, 4-5=-831/245, 5-6=-206/614, 6-7=0/1210, 7-8=-332/338, 8-9=-1881/0, 9-10=-1676/0, 10-11=-963/0
BOT CHORD 26-27=0/810, 25-26=-119/986, 24-25=-400/646, 23-24=-400/646, 22-23=-845/0, 21-22=-2109/0, 20-21=-2124/0, 19-20=-2124/0, 18-19=0/1823, 17-18=0/1823, 16-17=0/1904, 15-16=0/1426, 14-15=0/770, 13-14=0/770
WEBS 7-21=-1879/0, 1-27=0/515, 2-27=-459/2, 5-25=0/258, 5-23=-568/0, 6-23=0/585, 6-22=-889/0, 7-22=0/1031, 7-19=0/2200, 8-19=-1960/0, 9-16=-278/0, 10-16=0/304, 10-15=-565/0, 11-15=0/416, 11-13=-1462/0

NOTES- (5)
1) Unbalanced floor live loads have been considered for this design.
2) Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) CAUTION, Do not erect truss backwards.

LOAD CASE(S)
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 13-28=-7, 1-12=-67
Concentrated Loads (lb)
Vert: 8=-932 11=-865
2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 13-28=-7, 1-12=-67
Concentrated Loads (lb)
Vert: 8=-932 11=-865
3) 1st Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00

4/25/2025

Continued on page 2

LOAD CASE(S)

Uniform Loads (plf)
Vert: 13-28=-7, 1-7=-67, 7-12=-13
Concentrated Loads (lb)
Vert: 8=-932 11=-865

4) 2nd Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 13-28=-7, 1-7=-13, 7-12=-67
Concentrated Loads (lb)
Vert: 8=-932 11=-865

5) 3rd unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 13-28=-7, 1-7=-67, 7-12=-13
Concentrated Loads (lb)
Vert: 8=-932 11=-865

6) 4th unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 13-28=-7, 1-7=-13, 7-12=-67
Concentrated Loads (lb)
Vert: 8=-932 11=-865

4/25/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS | 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-F01	F1-13	Floor	1	1	Job Reference (optional) **# 58878**

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:18:54 2025 Page 1
ID:5fxLxLn?C6dWjia?SHK4thzkcYI-DpzT0_9Hf57kJUU1WjOYdajggi1wJ8?QIGY0EZzMoB?

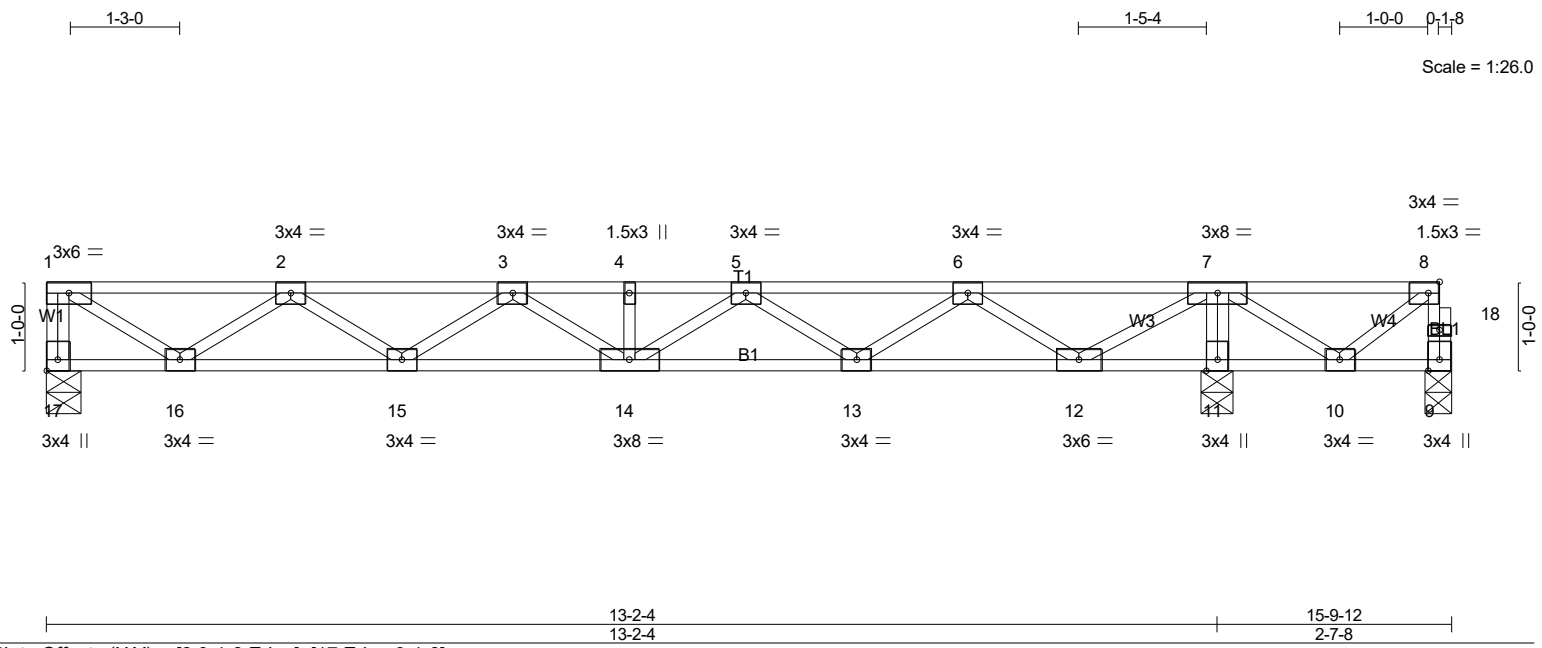


Plate Offsets (X,Y)-- [8:0-1-8,Edge], [17:Edge,0-1-8]

LOADING (psf)		**SPACING-**	1-4-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.30	Vert(LL)	-0.05	14	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.24	Vert(CT)	-0.07	14	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.01	11	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 80 lb	FT = 20%F, 11%E

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

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

REACTIONS. (lb/size) 17=395/0-4-8 (min. 0-1-8), 9=-353/0-3-8 (min. 0-1-8), 11=1096/0-4-8 (min. 0-1-8)
Max Uplift9=-413(LC 3)
Max Grav 17=395(LC 3), 11=1096(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-17=-391/0, 9-18=0/419, 8-18=0/418, 1-2=-504/0, 2-3=-1098/0, 3-4=-1169/0, 4-5=-1169/0, 5-6=-650/0, 6-7=0/378, 7-8=0/540
BOT CHORD 15-16=0/943, 14-15=0/1229, 13-14=0/1002, 12-13=0/272, 11-12=-1189/0, 10-11=-1196/0
WEBS 7-11=-1065/0, 1-16=0/597, 2-16=-536/0, 5-13=-435/0, 6-13=0/468, 6-12=-791/0, 7-12=0/932, 7-10=0/777, 8-10=-661/0

NOTES- (5)
1) Unbalanced floor live loads have been considered for this design.
2) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 413 lb uplift at joint 9.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

4/25/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS | 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-F01	F1-14	Floor	4	1	Job Reference (optional) **# 58878**

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:18:55 2025 Page 1
ID:5fxLxLn?C6dWjia?SHK4thzkcYI-h?XrDKAvQPFbxe3D3QvnAoGrQ6N92bFZXwHZn?zMoB_

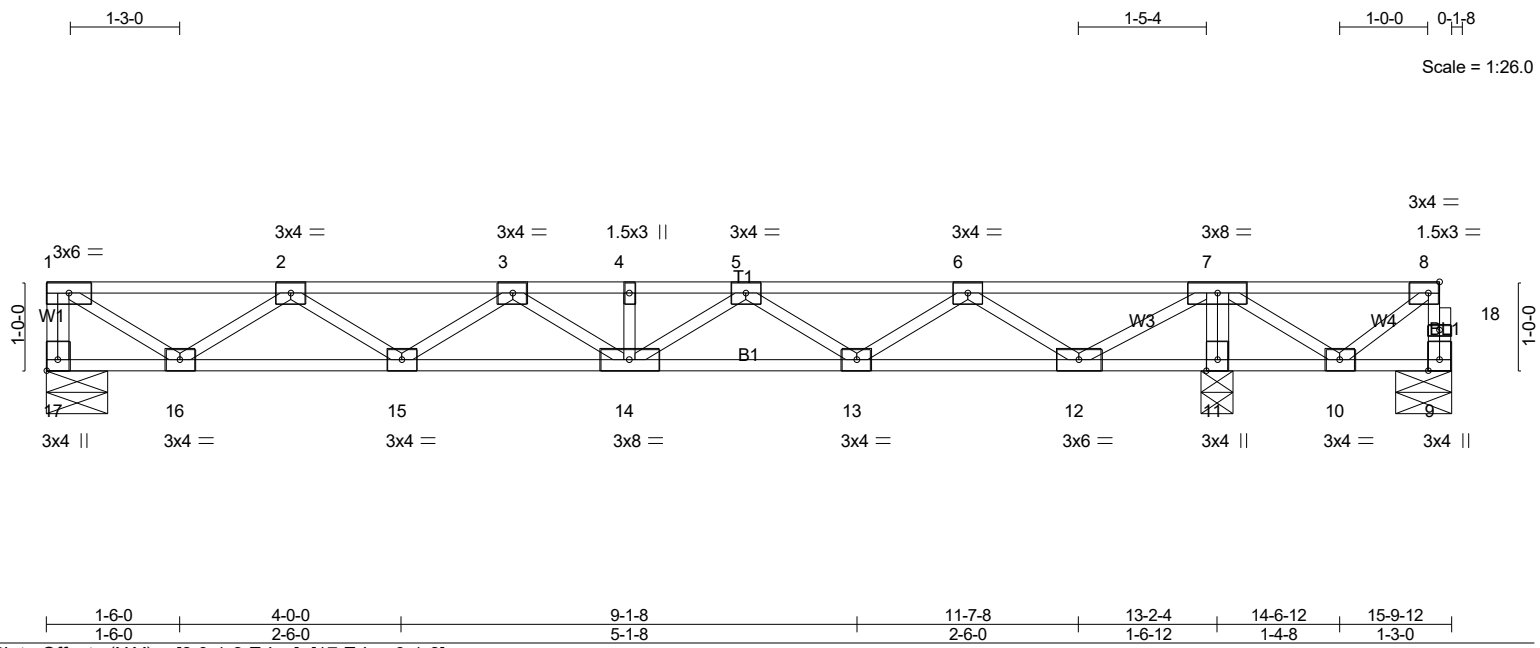


Plate Offsets (X,Y)-- [8:0-1-8,Edge], [17:Edge,0-1-8]

LOADING (psf)		**SPACING-**	1-4-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.30	Vert(LL)	-0.05	14	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.24	Vert(CT)	-0.07	14	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.01	11	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 80 lb	FT = 20%F, 11%E

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

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

REACTIONS. (lb/size) 17=395/0-8-4 (min. 0-1-8), 9=-353/0-7-8 (min. 0-1-8), 11=1096/0-4-8 (min. 0-1-8)
Max Uplift9=-413(LC 3)
Max Grav 17=395(LC 3), 11=1096(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-17=-391/0, 9-18=0/419, 8-18=0/418, 1-2=-504/0, 2-3=-1098/0, 3-4=-1169/0, 4-5=-1169/0, 5-6=-650/0, 6-7=0/378, 7-8=0/540
BOT CHORD 15-16=0/943, 14-15=0/1229, 13-14=0/1002, 12-13=0/272, 11-12=-1189/0, 10-11=-1196/0
WEBS 7-11=-1065/0, 1-16=0/597, 2-16=-536/0, 5-13=-435/0, 6-13=0/468, 6-12=-791/0, 7-12=0/932, 7-10=0/777, 8-10=-661/0

NOTES- (5)
1) Unbalanced floor live loads have been considered for this design.
2) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 413 lb uplift at joint 9.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

4/25/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS | 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-F01	F1-15	Floor	1	1	Job Reference (optional) **# 58878**

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:18:55 2025 Page 1
ID:5fxLxLn?C6dWjia?SHK4thzkcYI-h?XrDKAvQPFbxe3D3QvnAoGrW6NB2bSZXwHZn?zMoB_

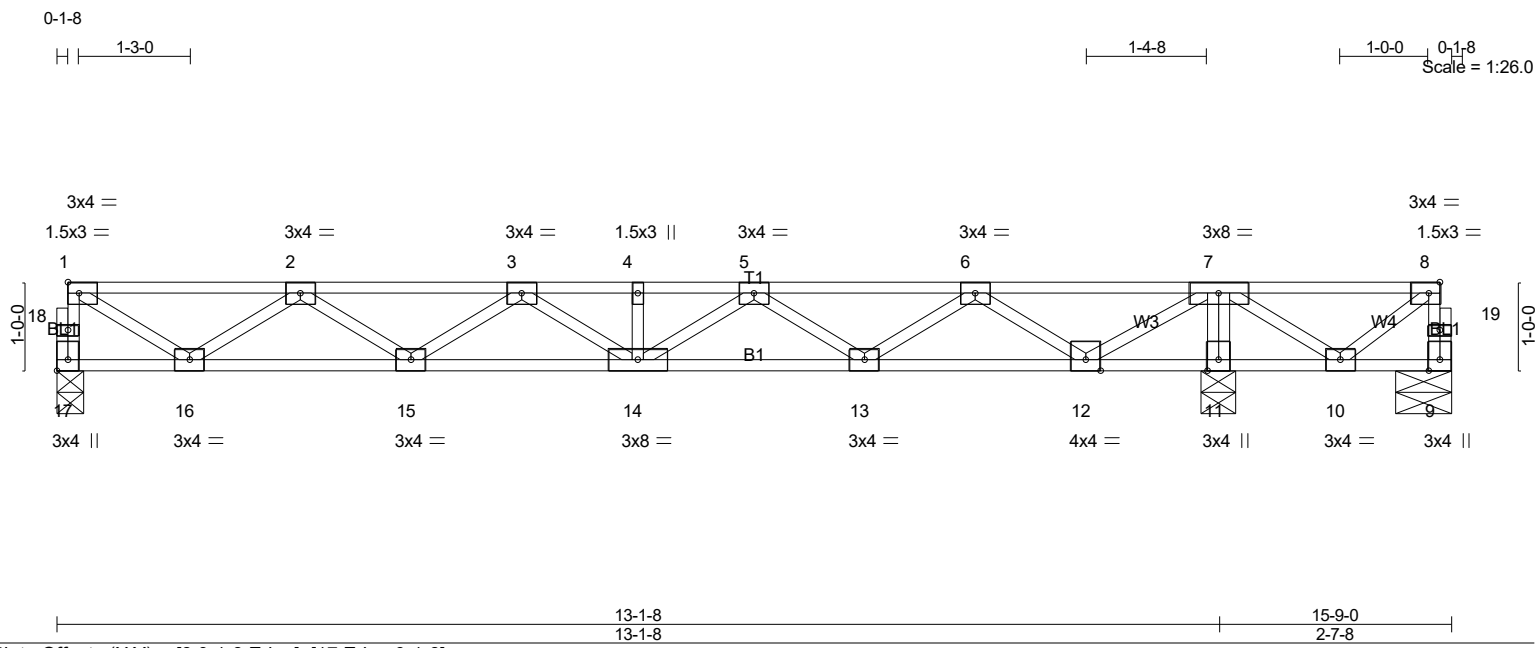


Plate Offsets (X,Y)-- [8:0-1-8,Edge], [17:Edge,0-1-8]

LOADING (psf)		**SPACING-**	1-4-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.29	Vert(LL)	-0.05	14	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.24	Vert(CT)	-0.07	14	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.01	11	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 80 lb	FT = 20%F, 11%E

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

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

REACTIONS. (lb/size) 17=389/0-3-8 (min. 0-1-8), 9=-348/0-7-8 (min. 0-1-8), 11=1088/0-4-8 (min. 0-1-8)
Max Uplift9=-409(LC 3)
Max Grav 17=389(LC 3), 11=1088(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 17-18=-386/0, 1-18=-385/0, 9-19=0/414, 8-19=0/414, 1-2=-503/0, 2-3=-1090/0, 3-4=-1155/0, 4-5=-1155/0, 5-6=-632/0, 6-7=0/399, 7-8=0/535
BOT CHORD 15-16=0/936, 14-15=0/1219, 13-14=0/986, 11-12=-1178/0, 10-11=-1183/0
WEBS 7-11=-1057/0, 1-16=0/571, 2-16=-529/0, 5-13=-439/0, 6-13=0/472, 6-12=-791/0, 7-12=0/904, 7-10=0/768, 8-10=-654/0

NOTES- (5)
1) Unbalanced floor live loads have been considered for this design.
2) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 409 lb uplift at joint 9.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

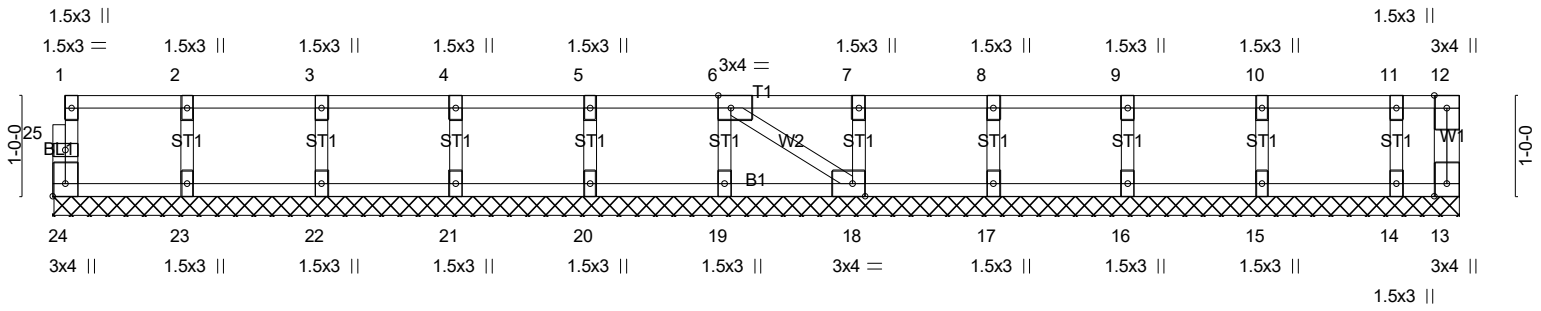
4/25/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS | 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-F01	F1-19	GABLE	1	1	# 58878
					Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:18:55 2025 Page 1
ID:5fxLxLn?C6dWjia?SHK4thzkcYI-h?XrDKAvQPFbxe3D3QvnAoGv86Qr2hhZXwHZn?zMoB_

0-1-8

Scale = 1:22.9



1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	13-11-8
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-7-8

Plate Offsets (X,Y)-- [6:0-1-8,Edge], [18:0-1-8,Edge], [24:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	13	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 59 lb	FT = 20%F, 11%E

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

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

REACTIONS. All bearings 13-11-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 24, 13, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14

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

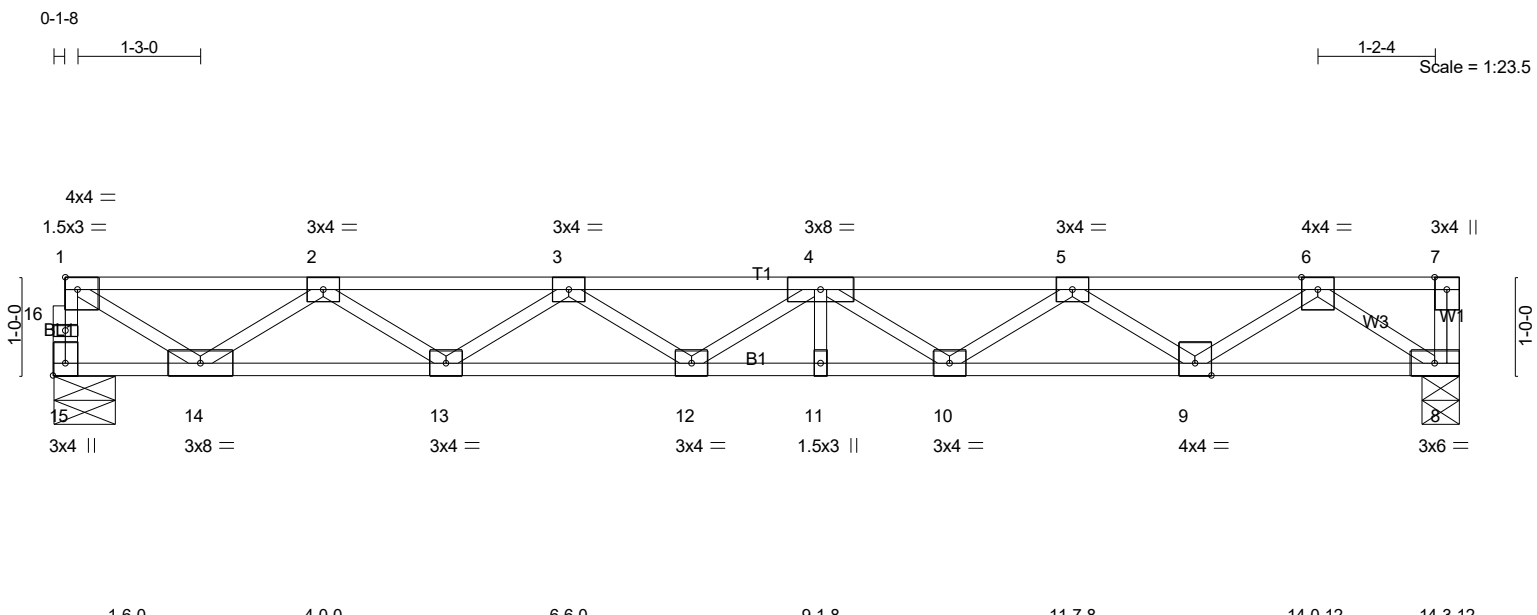
NOTES- (6)
1) Gable requires continuous bottom chord bearing.
2) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
3) Gable studs spaced at 1-4-0 oc.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

4/25/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS | 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-F01	F1-20	Floor	4	1	Job Reference (optional) **# 58878**

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:18:55 2025 Page 1
ID:5fxLxLn?C6dWjia?SHK4thzkcYI-h?XrDKAvQPFbxe3D3QvnAoGqR6Hf2ZOZXwHZn?zMoB_



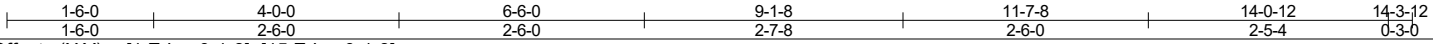


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [15:Edge,0-1-8]

LOADING (psf)		**SPACING-** 2-0-0		**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.36	Vert(LL)	-0.17	11-12	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.59	Vert(CT)	-0.23	11-12	>739	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.04	8	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 71 lb	FT = 20%F, 11%E

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

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

REACTIONS. (lb/size) 15=767/0-7-8 (min. 0-1-8), 8=773/0-4-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 15-16=-762/0, 1-16=-760/0, 1-2=-1038/0, 2-3=-2447/0, 3-4=-3029/0, 4-5=-2818/0, 5-6=-1811/0
BOT CHORD 13-14=0/1946, 12-13=0/2911, 11-12=0/3120, 10-11=0/3120, 9-10=0/2499, 8-9=0/1084
WEBS 1-14=0/1182, 2-14=-1108/0, 2-13=0/611, 3-13=-567/0, 4-10=-363/0, 5-10=0/389, 5-9=-840/0, 6-9=0/888, 6-8=-1302/0

NOTES- (3)
1) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
2) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

4/25/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS | 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-F01	F1-21	Floor Girder	1	1	Job Reference (optional) **# 58878**

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:18:56 2025 Page 1
ID:5fxLxLn?C6dWjia?SHK4thzkcYI-AC5DRgBXBjNSZodPd8Q0i?pxhVYXnwUjla16lSzMoAz

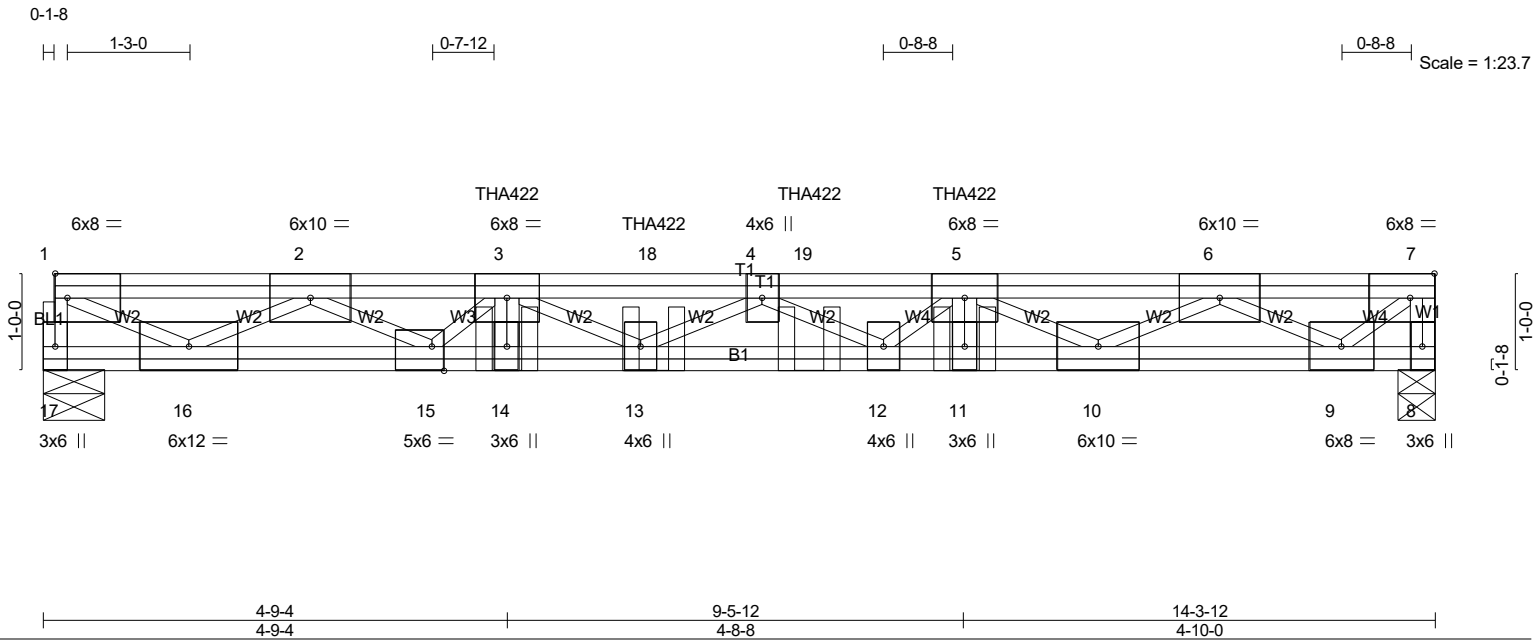


Plate Offsets (X,Y)-- [7:0-3-0,Edge], [15:0-1-8,Edge]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.58	Vert(LL)	-0.29	12-13	>582	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.94	Vert(CT)	-0.36	12-13	>471	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.96	Horz(CT)	0.05	8	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 112 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat) *Except*
W2: 2x4 SP No.2(flat)

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

REACTIONS. (lb/size) 17=1444/0-7-8 (min. 0-1-8), 8=1447/0-4-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-17=-1420/0, 7-8=-1434/0, 1-2=-2401/0, 2-3=-6230/0, 3-18=-7839/0, 4-18=-7839/0, 4-19=-7716/0, 5-19=-7716/0, 5-6=-5453/0, 6-7=-1493/0
BOT CHORD 15-16=0/4497, 14-15=0/7313, 13-14=0/7314, 12-13=0/8289, 11-12=0/7252, 10-11=0/7255, 9-10=0/3697
WEBS 3-13=0/602, 4-13=-525/0, 4-12=-669/0, 5-12=0/614, 5-10=-2063/0, 6-10=0/2048, 6-9=-2571/0, 7-9=0/2008, 1-16=0/2716, 2-16=-2445/0, 2-15=0/2022, 3-15=-1481/0

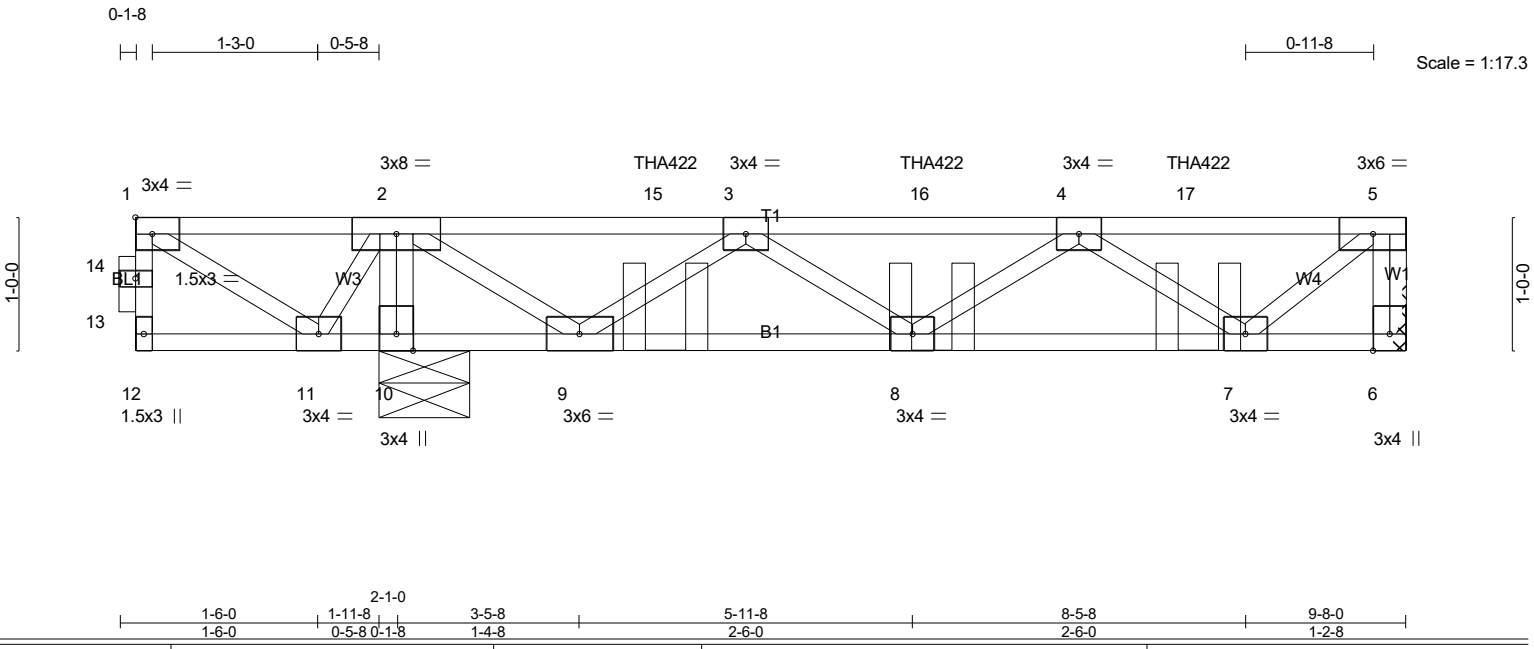
NOTES- (6)
1) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
2) CAUTION, Do not erect truss backwards.
3) Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent spaced at 1-7-3 oc max. starting at 4-9-4 from the left end to 9-5-12 to connect truss(es) F1-24 (1 ply 2x4 SP), F1-23 (1 ply 2x4 SP), F1-22 (1 ply 2x4 SP) to back face of top chord.
4) Fill all nail holes where hanger is in contact with lumber.
5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 8-17=-10, 1-7=-100
Concentrated Loads (lb)
Vert: 3=-425(B) 5=-447(B) 18=-236(B) 19=-236(B)

4/25/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS | 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-F01	F1-22	Floor Girder	1	1	Job Reference (optional) **# 58878**

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:18:56 2025 Page 1
ID:5fxLxLn?C6dWjia?SHK4thzkcYI-AC5DRgBXBjNSZodPd8Q0i?pz_VjNn13jla16lSzMoAz



LOADING (psf)		**SPACING-** 2-0-0		**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.50	Vert(LL)	-0.03	8	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.24	Vert(CT)	-0.03	8	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.47	Horz(CT)	0.01	6	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 51 lb	FT = 20%F, 11%E

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

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

REACTIONS. (lb/size) 6=528/Mechanical, 10=1370/0-8-0 (min. 0-1-8)
Max Grav 6=547(LC 4), 10=1370(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 5-6=-543/0, 1-2=0/623, 3-16=-994/0, 4-16=-994/0, 4-17=-517/0, 5-17=-517/0
BOT CHORD 10-11=-902/0, 9-10=-871/0, 8-9=0/863, 7-8=0/1088
WEBS 2-10=-1320/0, 1-11=-749/0, 2-11=0/489, 2-9=0/990, 3-9=-929/0, 4-7=-697/0, 5-7=0/665

NOTES- (9)
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.
6) Use Simpson Strong-Tie THA422 (Single Chord Girder) or equivalent spaced at 2-0-0 oc max. starting at 4-1-4 from the left end to 8-1-4 to connect truss(es) F1-27 (1 ply 2x4 SP) to back face of top chord.
7) Fill all nail holes where hanger is in contact with lumber.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-12=-10, 1-2=-190(F=-90), 2-5=-100
Concentrated Loads (lb)
Vert: 1=-264 15=-144(B) 16=-144(B) 17=-144(B)
2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-12=-10, 1-2=-190(F=-90), 2-5=-100
Concentrated Loads (lb)
Vert: 1=-264 15=-144(B) 16=-144(B) 17=-144(B)
3) 1st Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-12=-10, 1-2=-190(F=-90), 2-5=-20

4/25/2025

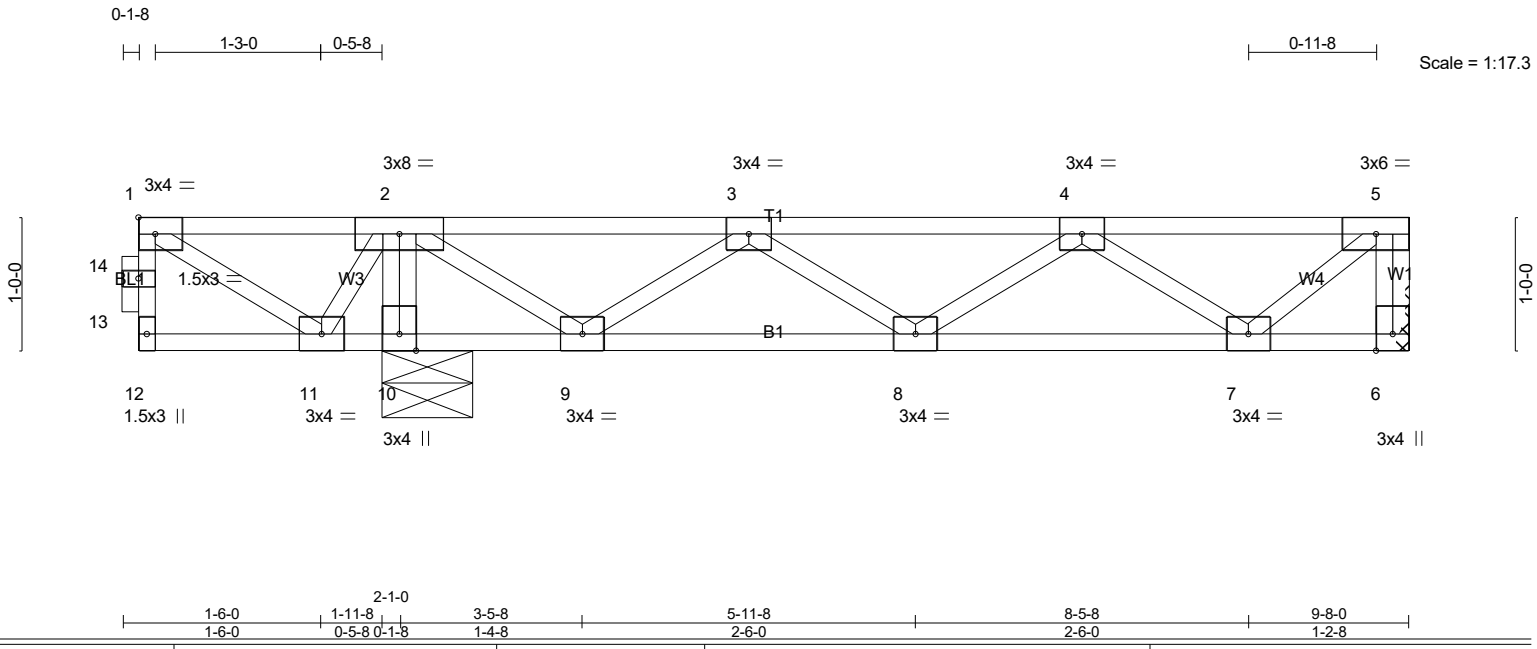
Continued on page 2

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 1=-264 15=-224(B) 16=-224(B) 17=-224(B)
4) 2nd Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-12=-10, 1-2=-110(F=-90), 2-5=-100
Concentrated Loads (lb)
Vert: 1=-264 15=-144(B) 16=-144(B) 17=-144(B)
5) 3rd unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-12=-10, 1-2=-190(F=-90), 2-5=-20
Concentrated Loads (lb)
Vert: 1=-264 15=-224(B) 16=-224(B) 17=-224(B)
6) 4th unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-12=-10, 1-2=-110(F=-90), 2-5=-100
Concentrated Loads (lb)
Vert: 1=-264 15=-144(B) 16=-144(B) 17=-144(B)

4/25/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS | 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-F01	F1-23	Floor Special	2	1	Job Reference (optional) **# 58878**

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:18:56 2025 Page 1
ID:5fxLxLn?C6dWjia?SHK4thzkcYI-AC5DRgBXBjNSZodPd8Q0i?p?PVkxn4bjla16lSzMoAz



LOADING (psf)		**SPACING-** 2-0-0		**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.35	Vert(LL)	-0.02	8	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.14	Vert(CT)	-0.02	8	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.31	Horz(CT)	0.00	6	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 51 lb	FT = 20%F, 11%E

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

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

REACTIONS. (lb/size) 6=317/Mechanical, 10=976/0-8-0 (min. 0-1-8)
Max Grav 6=336(LC 4), 10=976(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 5-6=-332/0, 1-2=0/522, 2-3=0/501, 3-4=-546/145, 4-5=-297/2
BOT CHORD 10-11=-763/0, 9-10=-745/0, 8-9=-296/443, 7-8=-33/611
WEBS 2-10=-940/0, 1-11=-627/0, 2-11=0/423, 2-9=0/650, 3-9=-598/0, 4-7=-384/38, 5-7=-3/381

NOTES- (6)
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-12=-10, 1-5=-100
Concentrated Loads (lb)
Vert: 1=-264
2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-12=-10, 1-5=-100
Concentrated Loads (lb)
Vert: 1=-264
3) 1st Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-12=-10, 1-2=-100, 2-5=-20
Concentrated Loads (lb)
Vert: 1=-264
4) 2nd Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-12=-10, 1-2=-20, 2-5=-100

4/25/2025

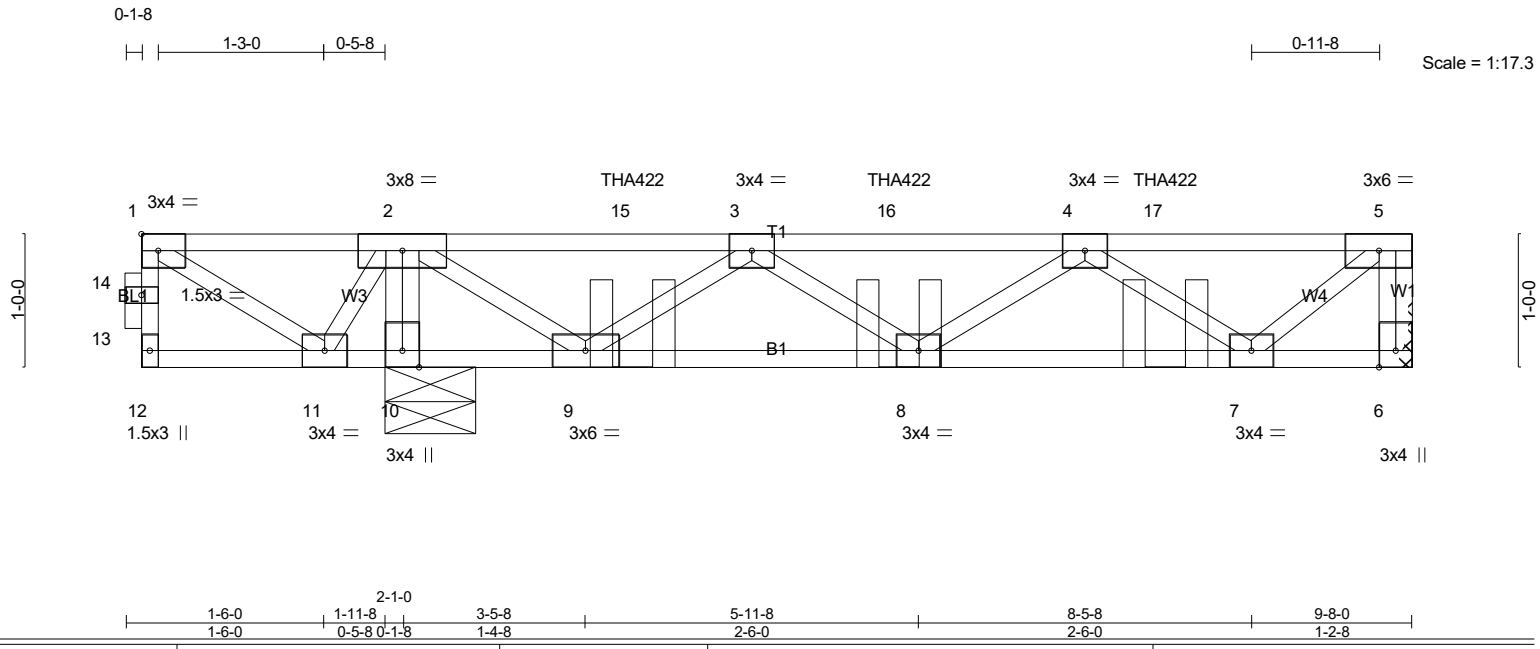
Continued on page 2

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 1=-264
5) 3rd unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-12=-10, 1-2=-100, 2-5=-20
Concentrated Loads (lb)
Vert: 1=-264
6) 4th unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-12=-10, 1-2=-20, 2-5=-100
Concentrated Loads (lb)
Vert: 1=-264

4/25/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS | 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-F01	F1-24	Floor Girder	1	1	Job Reference (optional) **# 58878**

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:18:56 2025 Page 1
ID:5fxLxLn?C6dWjia?SHK4thzkcYI-AC5DRgBXBjNSZodPd8Q0i?pybVjRn15jla16lSzMoAz



LOADING (psf)		**SPACING-** 2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL 1.00	TC	0.53	Vert(LL)	-0.03	8	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL 1.00	BC	0.24	Vert(CT)	-0.03	8	>999	360		
BCLL	0.0	Rep Stress Incr NO	WB	0.47	Horz(CT)	0.01	6	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014	Matrix-SH							Weight: 51 lb	FT = 20%F, 11%E

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

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

REACTIONS. (lb/size) 6=506/Mechanical, 10=1382/0-8-0 (min. 0-1-8)
Max Grav 6=525(LC 4), 10=1382(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 5-6=-521/0, 1-2=0/616, 3-16=-984/0, 4-16=-984/0, 4-17=-508/0, 5-17=-508/0
BOT CHORD 10-11=-891/0, 9-10=-859/0, 8-9=0/862, 7-8=0/1068
WEBS 2-10=-1332/0, 1-11=-740/0, 2-11=0/483, 2-9=0/985, 3-9=-924/0, 4-7=-684/0, 5-7=0/653

NOTES- (9)
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.
6) Use Simpson Strong-Tie THA422 (Single Chord Girder) or equivalent spaced at 2-0-0 oc max. starting at 3-9-12 from the left end to 7-9-12 to connect truss(es) F1-25 (1 ply 2x4 SP) to front face of top chord.
7) Fill all nail holes where hanger is in contact with lumber.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-12=-10, 1-2=-190, 2-5=-100
Concentrated Loads (lb)
Vert: 1=-264 15=-141(F) 16=-141(F) 17=-141(F)
2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-12=-10, 1-2=-190, 2-5=-100
Concentrated Loads (lb)
Vert: 1=-264 15=-141(F) 16=-141(F) 17=-141(F)
3) 1st Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-12=-10, 1-2=-190, 2-5=-20

4/25/2025

Continued on page 2

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 1=-264 15=-221(F) 16=-221(F) 17=-221(F)
4) 2nd Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-12=-10, 1-2=-110, 2-5=-100
Concentrated Loads (lb)
Vert: 1=-264 15=-141(F) 16=-141(F) 17=-141(F)
5) 3rd unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-12=-10, 1-2=-190, 2-5=-20
Concentrated Loads (lb)
Vert: 1=-264 15=-221(F) 16=-221(F) 17=-221(F)
6) 4th unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-12=-10, 1-2=-110, 2-5=-100
Concentrated Loads (lb)
Vert: 1=-264 15=-141(F) 16=-141(F) 17=-141(F)

4/25/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS | 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-F01	F1-25	Floor	3	1	Job Reference (optional) **# 58878**

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:18:57 2025 Page 1
ID:5fxLxLn?C6dWjia?SHK4thzkcYI-eOfbe0CAy0VJAyCcBrxFFDLBHv54Wats_EmgquzMoAy

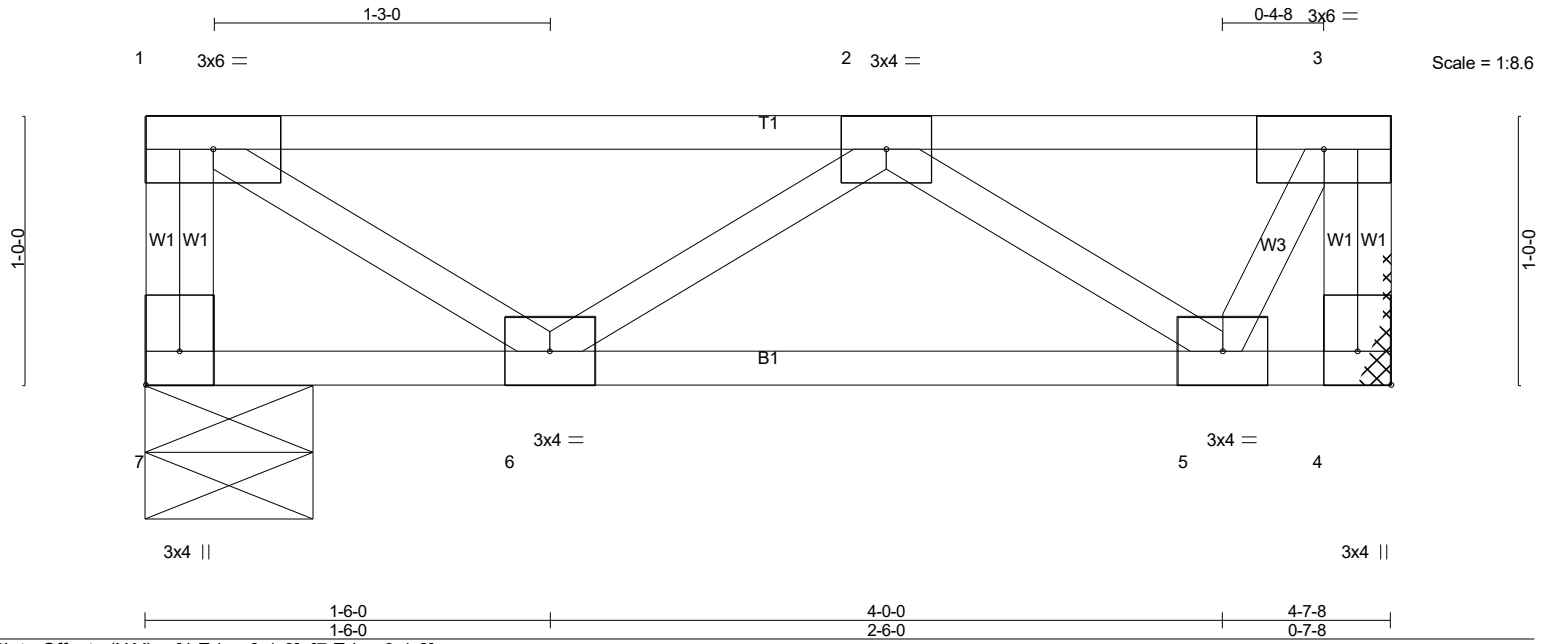


Plate Offsets (X,Y)-- [4:Edge,0-1-8], [7:Edge,0-1-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.27	Vert(LL)	-0.00	6	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.09	Vert(CT)	-0.01	5-6	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-P							Weight: 26 lb	FT = 20%F, 11%E

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-7-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 7=241/0-7-8 (min. 0-1-8), 4=241/Mechanical

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 5-6=0/357
WEBS 2-5=-300/0

NOTES- (3)
1) Refer to girder(s) for truss to truss connections.
2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

4/25/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS | 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-F01	F1-26	Floor Supported Gable	1	1	Job Reference (optional) **# 58878**

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:18:57 2025 Page 1
ID:5fxLxLn?C6dWjia?SHK4thzkcYI-eOfbe0CAy0VJAyCcBrxFFDLFev6JWbAs_EmgquzMoAy

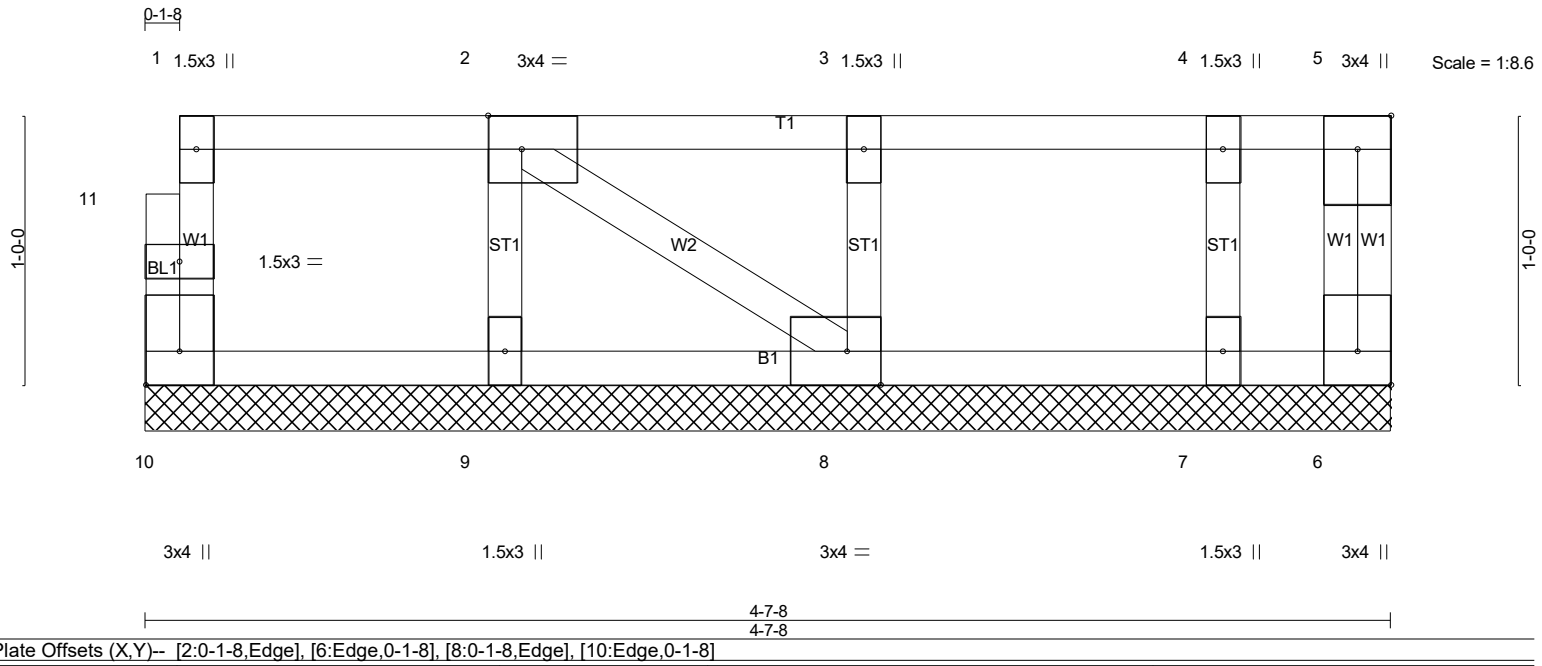


Plate Offsets (X,Y)-- [2:0-1-8,Edge], [6:Edge,0-1-8], [8:0-1-8,Edge], [10:Edge,0-1-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	6	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-P							Weight: 23 lb	FT = 20%F, 11%E

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-7-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 4-7-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 10, 6, 9, 8, 7

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

NOTES- (6)
1) Gable requires continuous bottom chord bearing.
2) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
3) Gable studs spaced at 1-4-0 oc.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

4/25/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS | 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-F01	F1-27	Floor	3	1	Job Reference (optional) **# 58878**

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:18:57 2025 Page 1
ID:5fxLxLn?C6dWjia?SHK4thzkcYI-eOfbe0CAy0VJAyCcBrxFFDLBHv52Waqs_EmgquzMoAy

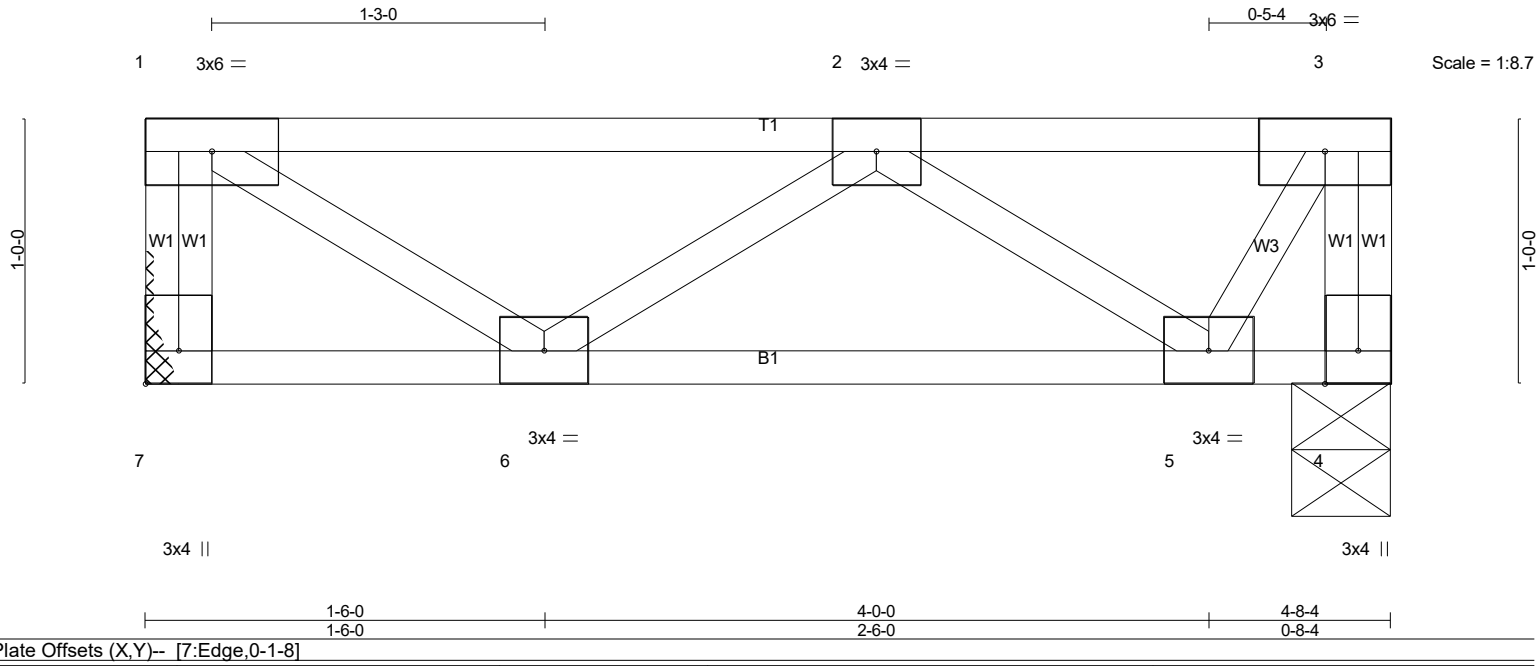


Plate Offsets (X,Y)-- [7:Edge,0-1-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.27	Vert(LL)	-0.00	6	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.09	Vert(CT)	-0.01	5-6	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-P							Weight: 26 lb	FT = 20%F, 11%E

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-8-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 7=244/Mechanical, 4=244/0-4-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 5-6=0/368
WEBS 2-5=-298/0

NOTES- (3)
1) Refer to girder(s) for truss to truss connections.
2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

4/25/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS | 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-F01	F1-28	Floor Supported Gable	1	1	Job Reference (optional) **# 58878**

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:18:57 2025 Page 1
ID:5fxLxLn?C6dWjia?SHK4thzkcYI-eOfbe0CAy0VJAyCcBrxFFDLFdv6JWbAs_EmgquzMoAy

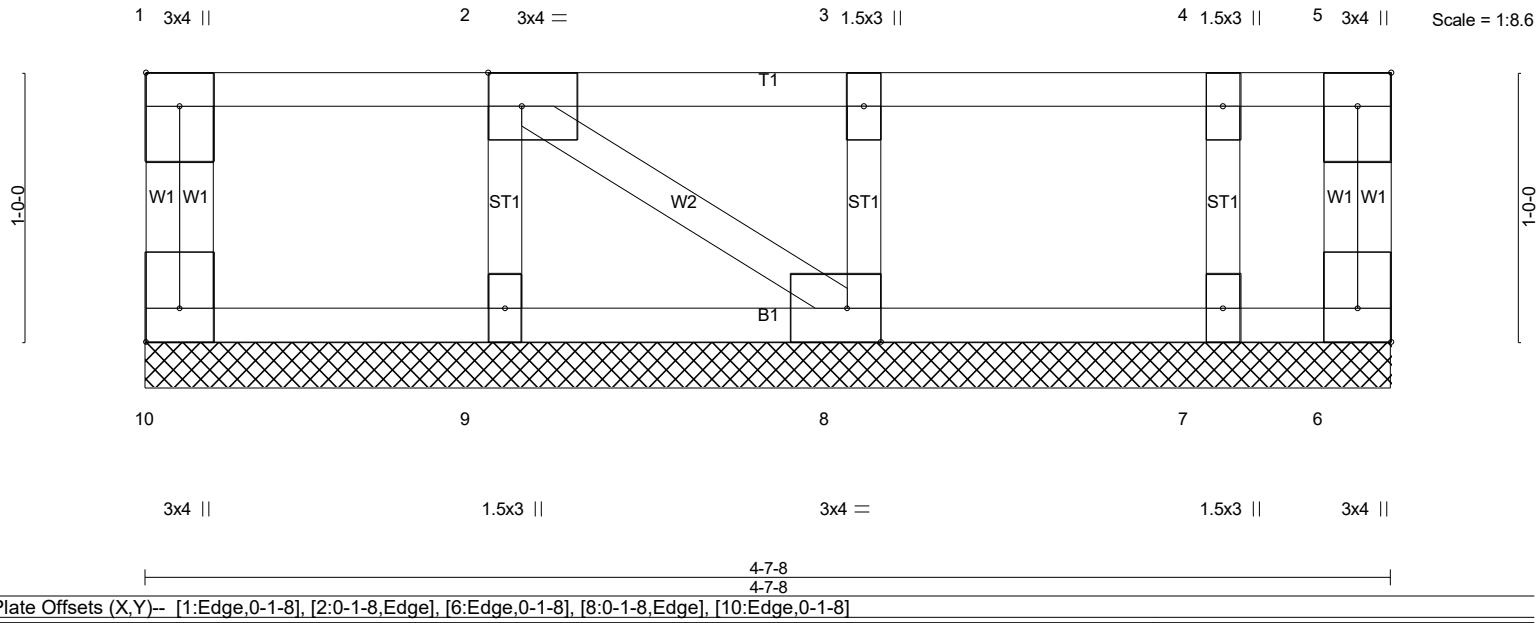


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [2:0-1-8,Edge], [6:Edge,0-1-8], [8:0-1-8,Edge], [10:Edge,0-1-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	-0.00	6	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-P							Weight: 24 lb	FT = 20%F, 11%E

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-7-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 4-7-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 10, 6, 9, 8, 7

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

NOTES- (5)
1) Gable requires continuous bottom chord bearing.
2) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
3) Gable studs spaced at 1-4-0 oc.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

4/25/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS | 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-F01	F1-29	Floor	1	1	Job Reference (optional) **# 58878**

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:18:57 2025 Page 1
ID:5fxLxLn?C6dWjia?SHK4thzkcYI-eOfbe0CAy0VJAyCcBrxFFDL9qv26WRZs_EmgquzMoAy

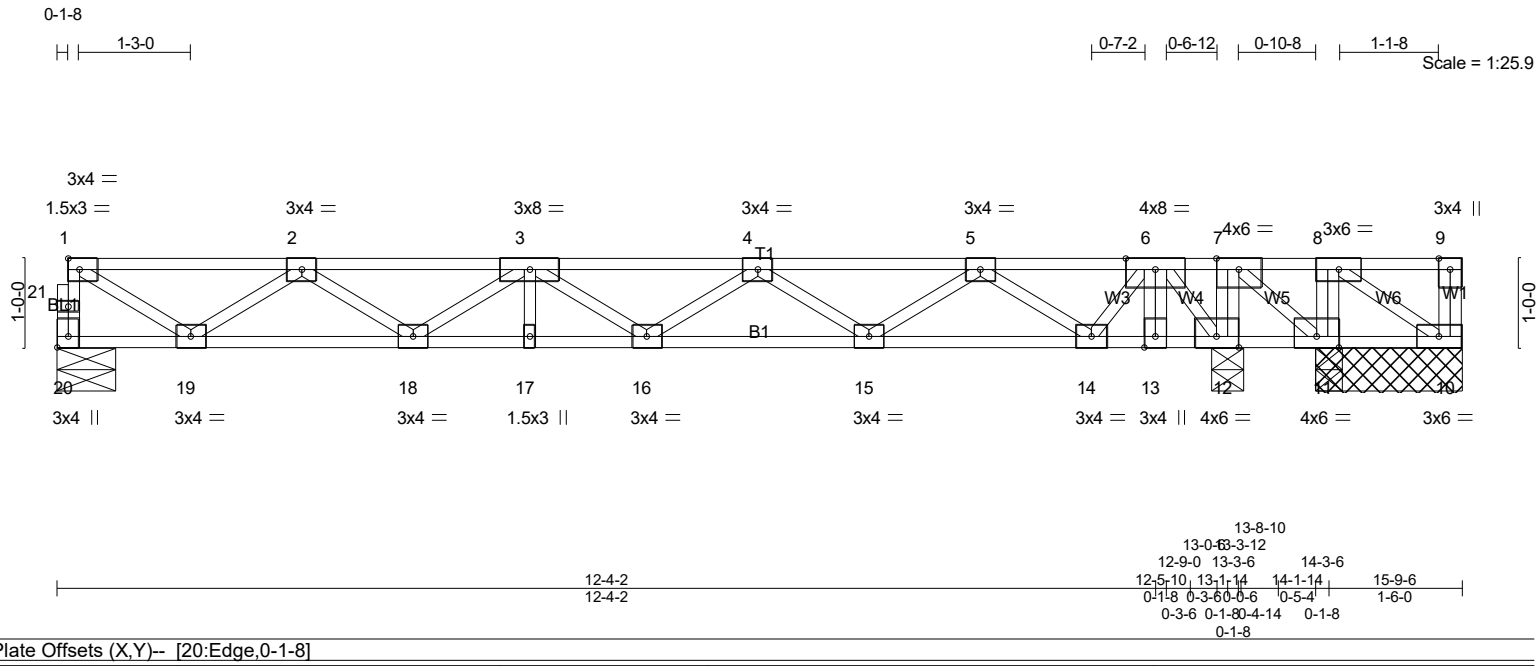


Plate Offsets (X,Y)-- [20:Edge,0-1-8]

LOADING (psf)		**SPACING-**	1-4-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.43	Vert(LL)	-0.05	17	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.28	Vert(CT)	-0.08	16	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.65	Horz(CT)	0.01	12	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 85 lb	FT = 20%F, 11%E

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

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

REACTIONS. (lb/size) 20=402/0-7-14 (min. 0-1-8), 10=-340/1-7-8 (min. 0-1-8), 11=-396/1-7-8 (min. 0-1-8), 11=-396/1-7-8 (min. 0-1-8), 12=2204/0-4-8 (min. 0-1-8)
Max Uplift10=-372(LC 3), 11=-476(LC 3), 11=-396(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 20-21=-399/0, 1-21=-398/0, 1-2=-523/0, 2-3=-1149/0, 3-4=-1222/0, 4-5=-764/0, 6-7=0/1685, 7-8=0/614
BOT CHORD 18-19=0/973, 17-18=0/1311, 16-17=0/1311, 15-16=0/1116, 14-15=0/391, 13-14=-581/0, 12-13=-581/0, 11-12=-1685/0, 10-11=-614/0
WEBS 8-11=-462/0, 7-12=-934/0, 7-11=0/1357, 8-10=0/728, 1-19=0/594, 2-19=-550/0, 4-15=-429/0, 5-15=0/455, 5-14=-730/0, 6-14=0/589, 6-12=-1622/0

NOTES- (6-9)
1) Unbalanced floor live loads have been considered for this design.
2) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 372 lb uplift at joint 10 and 476 lb uplift at joint 11.
3) Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.
6) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
7) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
8) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
9) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 10-20=-7, 1-9=-67

Continued on page 2

4/25/2025

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 6=-735
2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 10-20=-7, 1-9=-67
Concentrated Loads (lb)
Vert: 6=-735
3) 1st Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 10-20=-7, 1-7=-67, 7-9=-13
Concentrated Loads (lb)
Vert: 6=-735
4) 2nd Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 10-20=-7, 1-7=-13, 7-9=-67
Concentrated Loads (lb)
Vert: 6=-735
5) 3rd unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 10-20=-7, 1-7=-67, 7-9=-13
Concentrated Loads (lb)
Vert: 6=-735
6) 4th unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 10-20=-7, 1-7=-13, 7-9=-67
Concentrated Loads (lb)
Vert: 6=-735

4/25/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS | 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-F01	F1-30	Floor	2	1	Job Reference (optional) **# 58878**

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:18:58 2025 Page 1
ID:5fxLxLn?C6dWjia?SHK4thzkcYI-6aD_sMCojKdAo6nolZTUoQuKUJO6Fs2?DuWDMKzMoAx

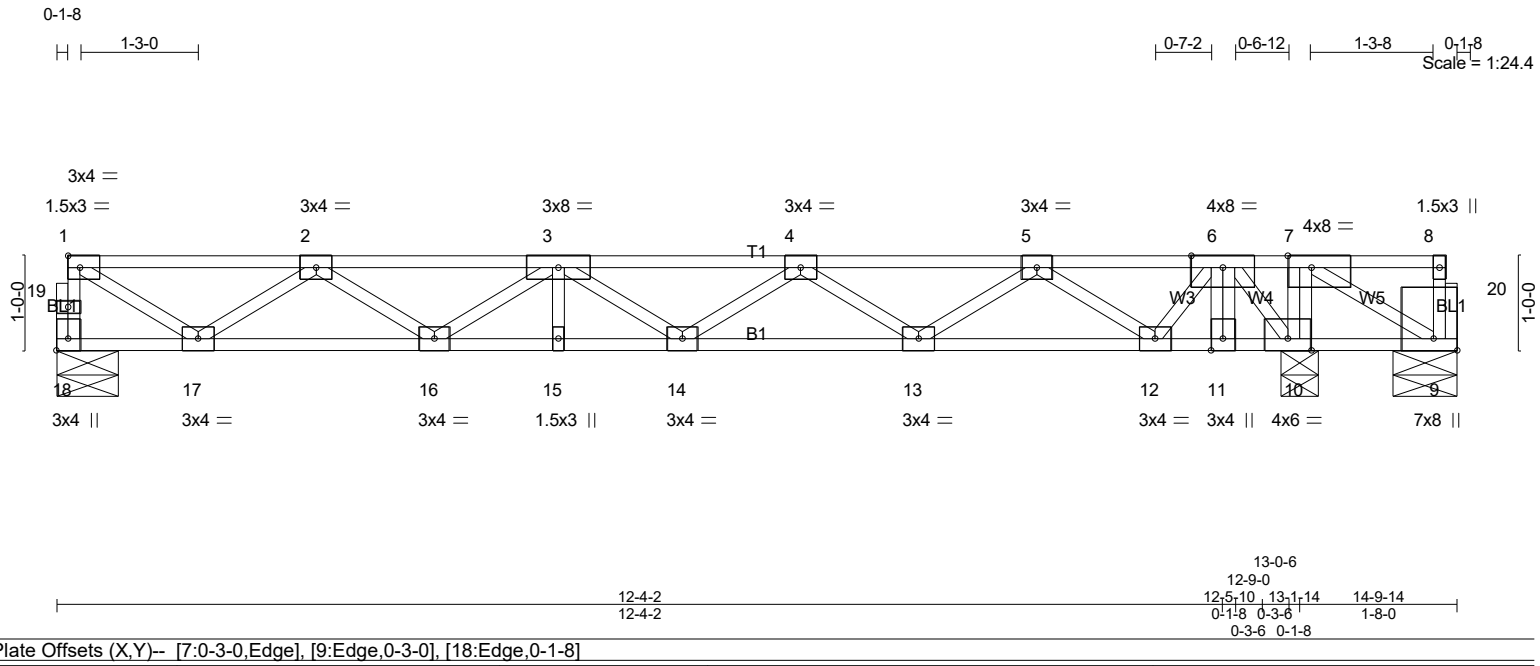


Plate Offsets (X,Y)-- [7:0-3-0,Edge], [9:Edge,0-3-0], [18:Edge,0-1-8]

LOADING (psf)		**SPACING-**	1-4-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.44	Vert(LL)	-0.05	15	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.29	Vert(CT)	-0.08	14	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.82	Horz(CT)	0.01	10	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 78 lb	FT = 20%F, 11%E

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

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

REACTIONS. (lb/size) 18=415/0-7-14 (min. 0-1-8), 9=-834/0-8-0 (min. 0-1-8), 10=2215/0-4-8 (min. 0-1-8)
Max Uplift9=-871(LC 3)
Max Grav 18=415(LC 3), 10=2215(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 18-19=-411/0, 1-19=-410/0, 1-2=-542/0, 2-3=-1204/0, 3-4=-1313/0, 4-5=-890/0, 6-7=0/1504
BOT CHORD 16-17=0/1010, 15-16=0/1383, 14-15=0/1383, 13-14=0/1224, 12-13=0/535, 11-12=-412/59, 10-11=-412/59, 9-10=-1504/0
WEBS 7-10=-980/0, 7-9=0/1728, 1-17=0/616, 2-17=-572/0, 4-13=-408/0, 5-13=0/434, 5-12=-710/0, 6-12=0/573, 6-10=-1608/0

NOTES- (6-9)
1) Unbalanced floor live loads have been considered for this design.
2) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 871 lb uplift at joint 9.
3) Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.
6) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
7) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
8) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
9) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 9-18=-7, 1-8=-67

4/25/2025

Continued on page 2

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 6=-735
2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 9-18=-7, 1-8=-67
Concentrated Loads (lb)
Vert: 6=-735
3) 1st Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 9-18=-7, 1-7=-67, 7-8=-13
Concentrated Loads (lb)
Vert: 6=-735
4) 2nd Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 9-18=-7, 1-7=-13, 7-8=-67
Concentrated Loads (lb)
Vert: 6=-735
5) 3rd unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 9-18=-7, 1-7=-67, 7-8=-13
Concentrated Loads (lb)
Vert: 6=-735
6) 4th unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 9-18=-7, 1-7=-13, 7-8=-67
Concentrated Loads (lb)
Vert: 6=-735

4/25/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS | 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-F01	F1-31	Floor	1	1	# 58878
					Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:18:58 2025 Page 1
ID:5fxLxLn?C6dWjia?SHK4thzkcYI-6aD_sMCojKdAo6nolZTUoQuKlJONFvb?DuWDMKzMoAx

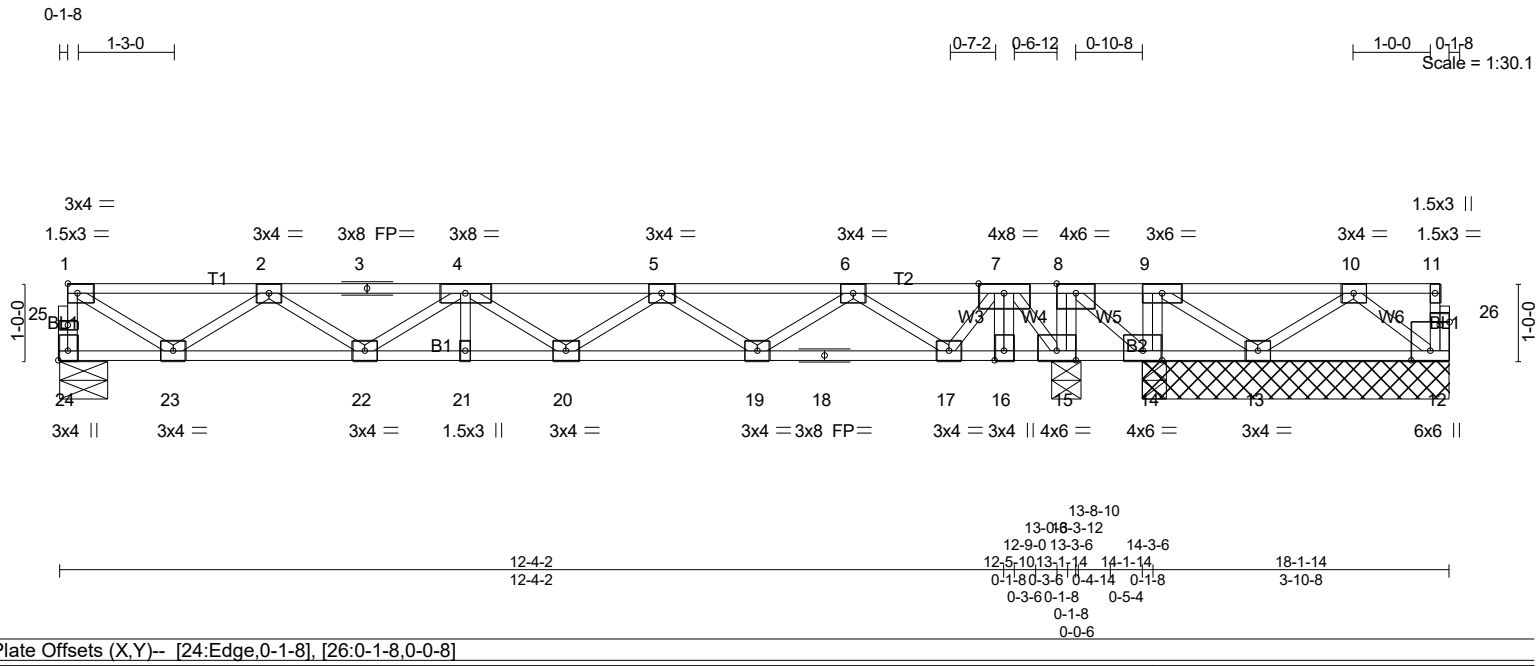


Plate Offsets (X,Y)-- [24:Edge,0-1-8], [26:0-1-8,0-0-8]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.42	Vert(LL)	-0.05	21	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.27	Vert(CT)	-0.08	20	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.60	Horz(CT)	0.01	15	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 96 lb	FT = 20%F, 11%E

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

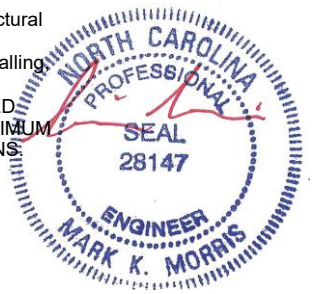
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 4-0-0 except (jt=length) 24=0-7-14, 15=0-4-8.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) 12 except 14=-517(LC 3), 14=-401(LC 1), 13=-129(LC 3)
Max Grav All reactions 250 lb or less at joint(s) 13, 12 except 24=401(LC 1), 15=2117(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 24-25=-397/0, 1-25=-396/0, 1-2=-520/0, 2-3=-1142/0, 3-4=-1142/0, 4-5=-1209/0, 5-6=-746/0, 7-8=0/1716, 8-9=0/728, 9-10=0/310
BOT CHORD 22-23=0/968, 21-22=0/1300, 20-21=0/1300, 19-20=0/1100, 18-19=0/371, 17-18=0/371, 16-17=-605/0, 15-16=-605/0, 14-15=-1716/0, 13-14=-728/0
WEBS 9-14=-398/0, 8-15=-835/0, 8-14=0/1252, 9-13=0/513, 10-13=-328/0, 1-23=0/591, 2-23=-547/0, 5-19=-432/0, 6-19=0/459, 6-17=-733/0, 7-17=0/591, 7-15=-1634/0

NOTES- (6-9)
1) Unbalanced floor live loads have been considered for this design.
2) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 14=517, 13=129.
3) Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.
6) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
7) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
8) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
9) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-24=-7, 1-11=-67



4/25/2025

Continued on page 2

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 7=-735
2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-24=-7, 1-11=-67
Concentrated Loads (lb)
Vert: 7=-735
3) 1st Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-24=-7, 1-8=-67, 8-11=-13
Concentrated Loads (lb)
Vert: 7=-735
4) 2nd Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-24=-7, 1-8=-13, 8-11=-67
Concentrated Loads (lb)
Vert: 7=-735
5) 3rd unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-24=-7, 1-8=-67, 8-11=-13
Concentrated Loads (lb)
Vert: 7=-735
6) 4th unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-24=-7, 1-8=-13, 8-11=-67
Concentrated Loads (lb)
Vert: 7=-735

4/25/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS | 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-F01	F1-32	Floor	5	1	Job Reference (optional) **# 58878**

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:18:59 2025 Page 1
ID:5fxLxLn?C6dWjia?SHK4thzkcYI-annM3iDQUeI1QGM_IG_jKeRULjjQ_QK9RYFnvnzMoAw

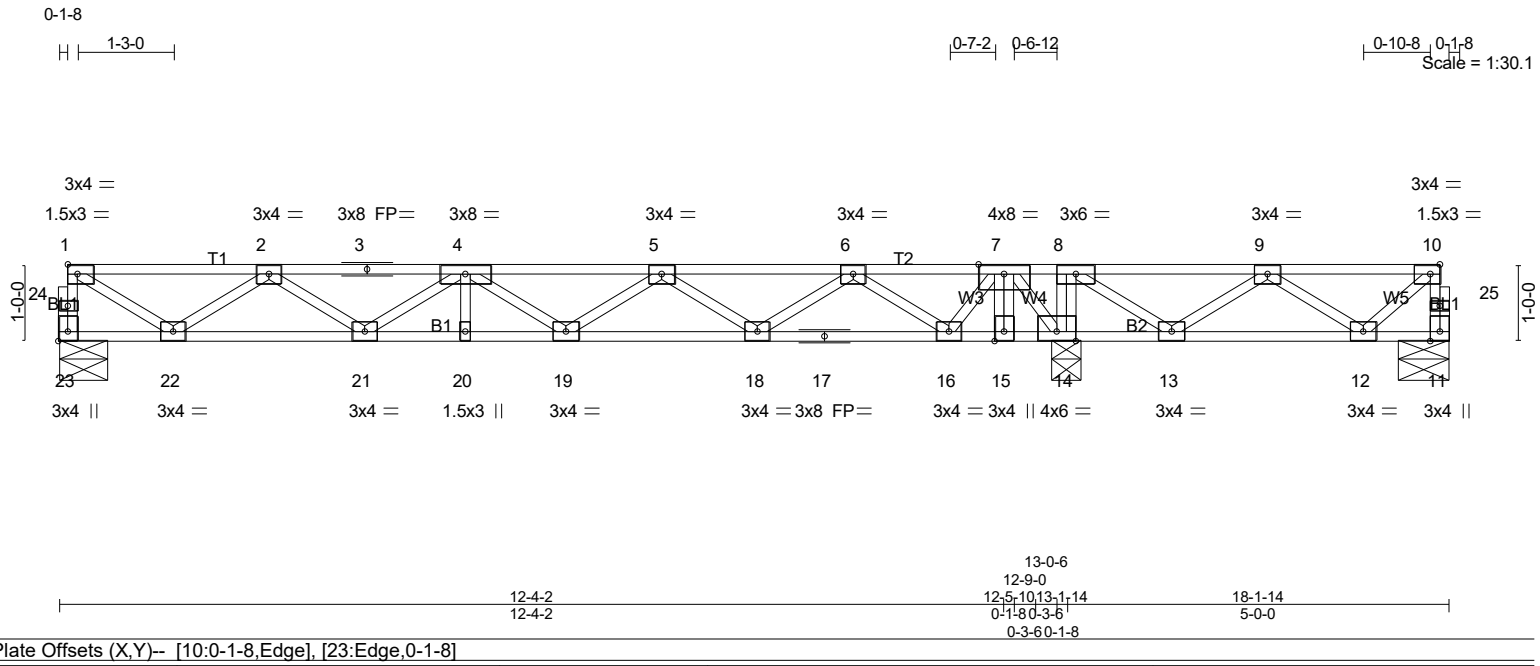


Plate Offsets (X,Y)-- [10:0-1-8,Edge], [23:Edge,0-1-8]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.49	Vert(LL)	-0.05	20	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.29	Vert(CT)	-0.08	19	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.37	Horz(CT)	0.01	14	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 94 lb	FT = 20%F, 11%E

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

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

REACTIONS. (lb/size) 23=407/0-7-14 (min. 0-1-8), 11=-125/0-8-0 (min. 0-1-8), 14=1757/0-4-8 (min. 0-1-8)
Max Uplift11=-244(LC 3)
Max Grav23=410(LC 3), 11=30(LC 4), 14=1757(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 23-24=-407/0, 1-24=-406/0, 1-2=-535/0, 2-3=-1185/0, 3-4=-1185/0, 4-5=-1281/0, 5-6=-846/0, 7-8=0/1598, 8-9=0/1106, 9-10=0/289
BOT CHORD 21-22=0/997, 20-21=0/1358, 19-20=0/1358, 18-19=0/1186, 17-18=0/484, 16-17=0/484, 15-16=-512/0, 14-15=-512/0, 13-14=-1598/0, 12-13=-675/0
WEBS 8-14=-530/0, 8-13=0/694, 9-13=-651/0, 9-12=0/471, 10-12=-372/0, 1-22=0/608, 2-22=-564/0, 5-18=-420/0, 6-18=0/446, 6-16=-725/0, 7-16=0/581, 7-14=-1638/0

NOTES- (6-9)
1) Unbalanced floor live loads have been considered for this design.
2) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=244.
3) Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.
6) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
7) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
8) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
9) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 11-23=-7, 1-10=-67

Continued on page 2

4/25/2025

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 7=-735
2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 11-23=-7, 1-10=-67
Concentrated Loads (lb)
Vert: 7=-735
3) 1st Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 11-23=-7, 1-8=-67, 8-10=-13
Concentrated Loads (lb)
Vert: 7=-735
4) 2nd Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 11-23=-7, 1-8=-13, 8-10=-67
Concentrated Loads (lb)
Vert: 7=-735
5) 3rd unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 11-23=-7, 1-8=-67, 8-10=-13
Concentrated Loads (lb)
Vert: 7=-735
6) 4th unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 11-23=-7, 1-8=-13, 8-10=-67
Concentrated Loads (lb)
Vert: 7=-735

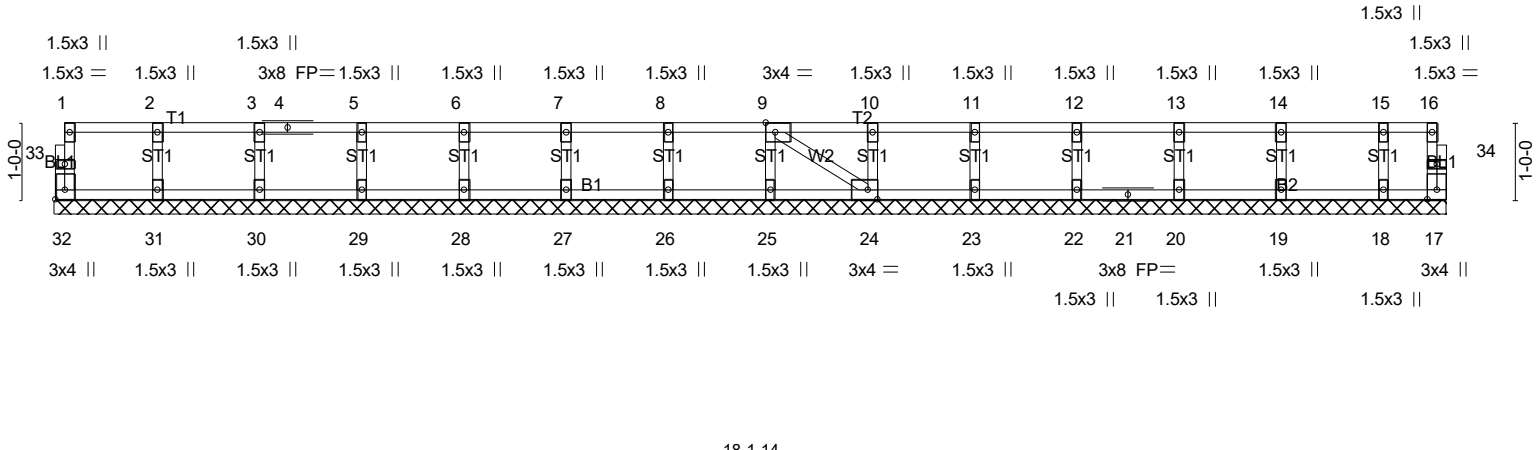
4/25/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS | 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-F01	F1-33	Floor Supported Gable	1	1	Job Reference (optional) **# 58878**

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:18:59 2025 Page 1
ID:5fxLxLn?C6dWjia?SHK4thzkcYI-annM3iDQUeI1QGM_IG_jKeRb7jnn_Vg9RYFnvnzMoAw

0-1-8 0-1-8

Scale = 1:30.1



18-1-14
18-1-14

Plate Offsets (X,Y)-- [9:0-1-8,Edge], [24:0-1-8,Edge], [32:Edge,0-1-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	17	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 74 lb	FT = 20%F, 11%E

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

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

REACTIONS. All bearings 18-1-14.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 32, 17, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22, 20, 19, 18

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

NOTES- (5-8)
1) Gable requires continuous bottom chord bearing.
2) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
3) Gable studs spaced at 1-4-0 oc.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
6) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
7) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
8) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard

4/25/2025