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: 2025-06-04 07:06:35

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 #: 59841
JOB: 25-4771-F02
JOB NAME: LOT 0.0019 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.
16 Truss Design(s)

Trusses:
F01, F02, F03, F04, F05, F06, F07, F08, F09, F10, F12, F13, F14, F15, F16, F17

6/2/2025
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.

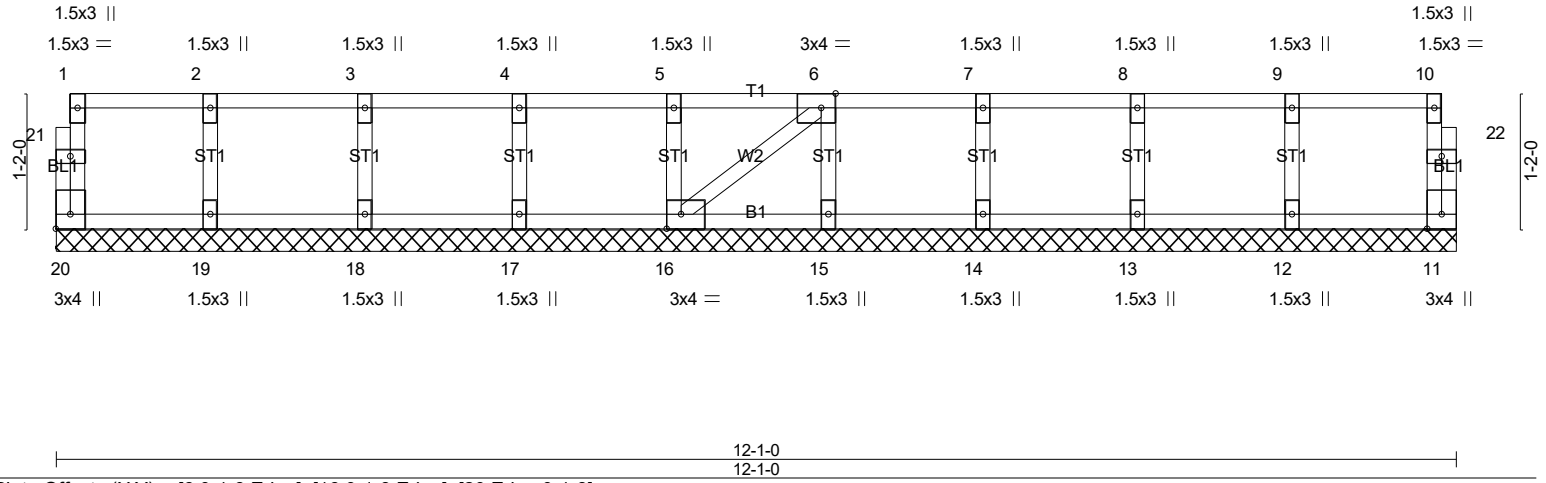
This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is 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 0.0019 HONEYCUTT HILLS | 400 SHELBY MEADOW LANE ANGIER, NC
25-4771-F02	F01	Floor Supported Gable	1	1	Job Reference (optional) **# 59841**

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Mon Jun 2 23:16:44 2025 Page 1
ID:C6coucD2IwHaZ3sGy11mE3yowb3-d203oKJmD3jZtREA5TMvjh9LKFCQ31rw?i5yWtzABNX

0-1-8 0-1-8

Scale = 1:19.9



12-1-0
12-1-0

Plate Offsets (X,Y)-- [6:0-1-8,Edge], [16:0-1-8,Edge], [20: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	11	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 54 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 12-1-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

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

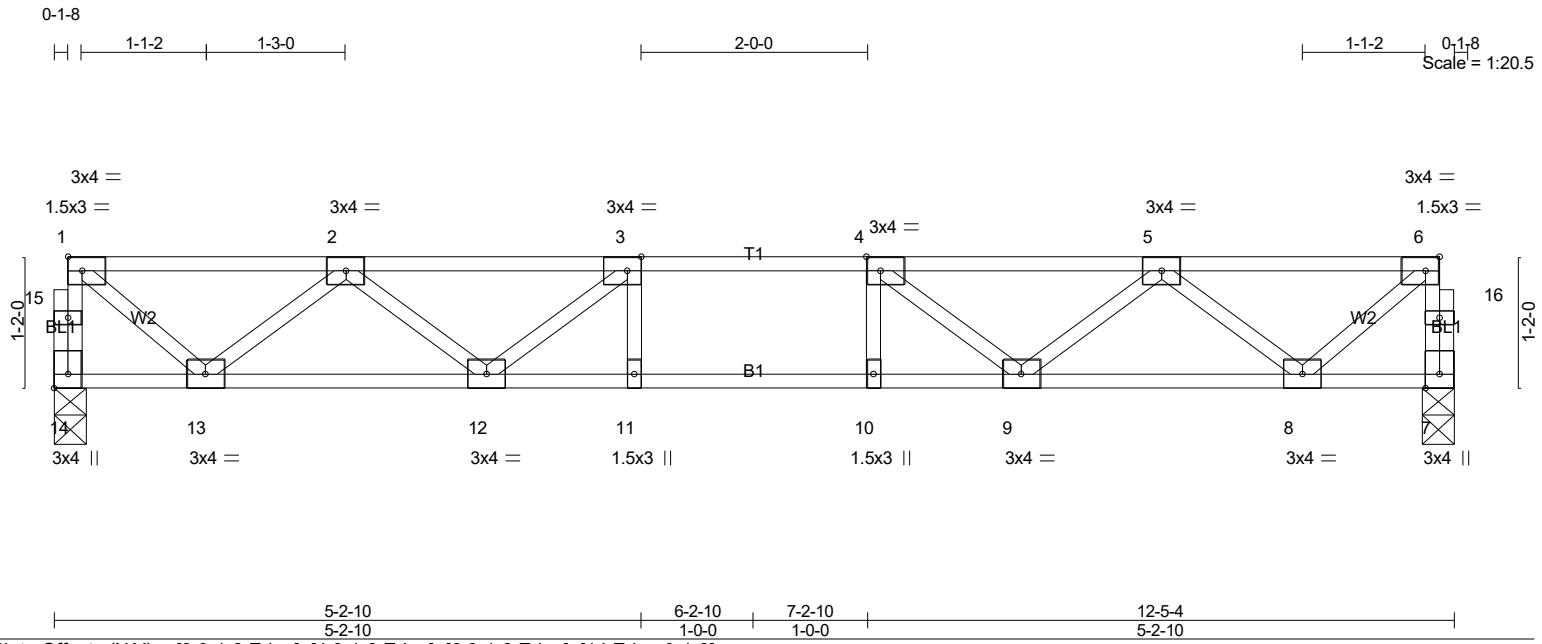
NOTES- (5)
1) Gable requires continuous bottom chord bearing.
2) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
3) Gable studs spaced at 1-4-0 oc.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d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

LOAD CASE(S) Standard

6/2/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0019 HONEYCUTT HILLS | 400 SHELBY MEADOW LANE ANGIER, NC
25-4771-F02	F02	Floor	5	1	# 59841
					Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Mon Jun 2 23:16:45 2025 Page 1
ID:C6coucD2IwHaZ3sGy11mE3yowb3-6EaR?gJO_NrQVbpMfAt8GuiTVfSvoPa4DMqV3JzABNW



5-2-10	6-2-10	7-2-10	12-5-4
5-2-10	1-0-0	1-0-0	5-2-10

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [6:0-1-8,Edge], [14:Edge,0-1-8]

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.23	Vert(LL)	-0.07	11-12	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.44	Vert(CT)	-0.09	11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.02	7	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 62 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=531/0-3-6 (min. 0-1-8), 7=531/0-3-6 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 14-15=-528/0, 1-15=-527/0, 7-16=-528/0, 6-16=-527/0, 1-2=-533/0, 2-3=-1304/0, 3-4=-1546/0, 4-5=-1304/0, 5-6=-533/0
BOT CHORD 12-13=0/1055, 11-12=0/1546, 10-11=0/1546, 9-10=0/1546, 8-9=0/1055
WEBS 3-12=-396/0, 2-12=0/335, 2-13=-679/0, 1-13=0/675, 4-9=-396/0, 5-9=0/335, 5-8=-679/0, 6-8=0/675

NOTES- (3-6)
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) 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.
4) 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.
5) 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.
6) 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

6/2/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0019 HONEYCUTT HILLS | 400 SHELBY MEADOW LANE ANGIER, NC
25-4771-F02	F03	Floor	1	1	# 59841
					Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Mon Jun 2 23:16:45 2025 Page 1
ID:C6coucD2IwHaZ3sGy11mE3yowb3-6EaR?gJO_NrQVbpMfAt8GuiTUfSvoPL4DMqV3JzABNW

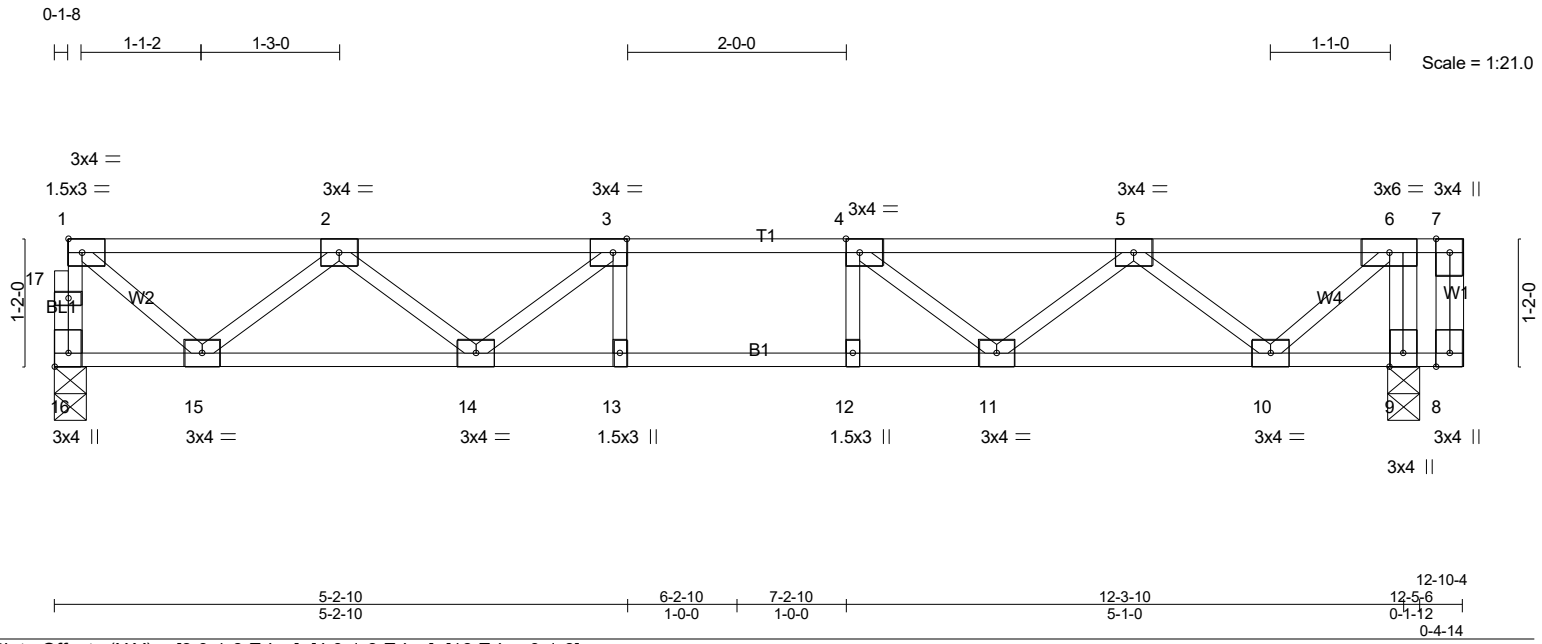


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [16:Edge,0-1-8]

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.23	Vert(LL)	-0.07	13-14	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.44	Vert(CT)	-0.09	13-14	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 67 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) 16=530/0-3-6 (min. 0-1-8), 9=574/0-3-8 (min. 0-1-8)
Max Grav 16=530(LC 3), 9=574(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 16-17=-528/0, 1-17=-527/0, 1-2=-532/0, 2-3=-1302/0, 3-4=-1543/0, 4-5=-1297/0, 5-6=-535/0
BOT CHORD 14-15=0/1053, 13-14=0/1543, 12-13=0/1543, 11-12=0/1543, 10-11=0/1046
WEBS 6-9=-615/0, 3-14=-395/0, 2-14=0/334, 2-15=-678/0, 1-15=0/674, 4-11=-400/0, 5-11=0/338, 5-10=-666/0, 6-10=0/707

NOTES- (4-7)
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.
4) 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.
5) 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.
6) 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.
7) 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

6/2/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0019 HONEYCUTT HILLS | 400 SHELBY MEADOW LANE ANGIER, NC
25-4771-F02	F04	Floor	1	1	# 59841
					Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Mon Jun 2 23:16:46 2025 Page 1
ID:C6coucD2IwHaZ3sGy11mE3yowb3-aR8qD0K0IhzH7IOYCuONo6Ede3nmXsIDS0a3bmzABNV

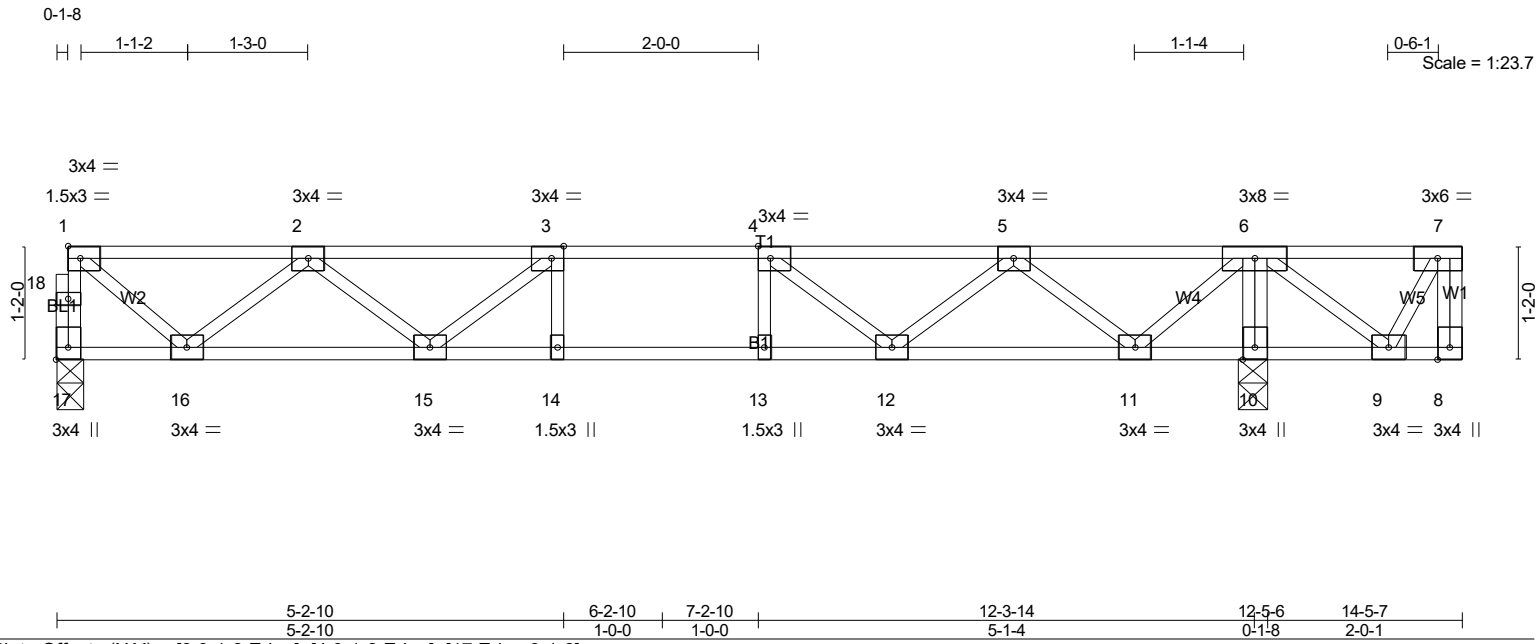


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [17:Edge,0-1-8]

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.27	Vert(LL)	-0.07	14-15	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.46	Vert(CT)	-0.09	14-15	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.02	10	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 75 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: 10-11,9-10.

REACTIONS. (lb/size) 17=517/0-3-6 (min. 0-1-8), 10=727/0-3-8 (min. 0-1-8)
Max Grav 17=527(LC 3), 10=727(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 17-18=-525/0, 1-18=-524/0, 1-2=-529/0, 2-3=-1292/0, 3-4=-1526/0, 4-5=-1275/0, 5-6=-503/0
BOT CHORD 15-16=0/1047, 14-15=0/1526, 13-14=0/1526, 12-13=0/1526, 11-12=0/1017
WEBS 6-10=-707/0, 3-15=-387/0, 2-15=0/328, 2-16=-674/0, 1-16=0/670, 4-12=-440/0, 5-12=0/366, 5-11=-672/0, 6-11=0/684

NOTES- (4-7)
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.
4) 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.
5) 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.
6) 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.
7) 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

6/2/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0019 HONEYCUTT HILLS | 400 SHELBY MEADOW LANE ANGIER, NC
25-4771-F02	F05	Floor	1	1	Job Reference (optional) **# 59841**

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Mon Jun 2 23:16:46 2025 Page 1
ID:C6coucD2lwHaZ3sGy11mE3yowb3-aR8qD0K0lhzH7lOYCuONo6Eca3moXsQDS0a3bmzABNV

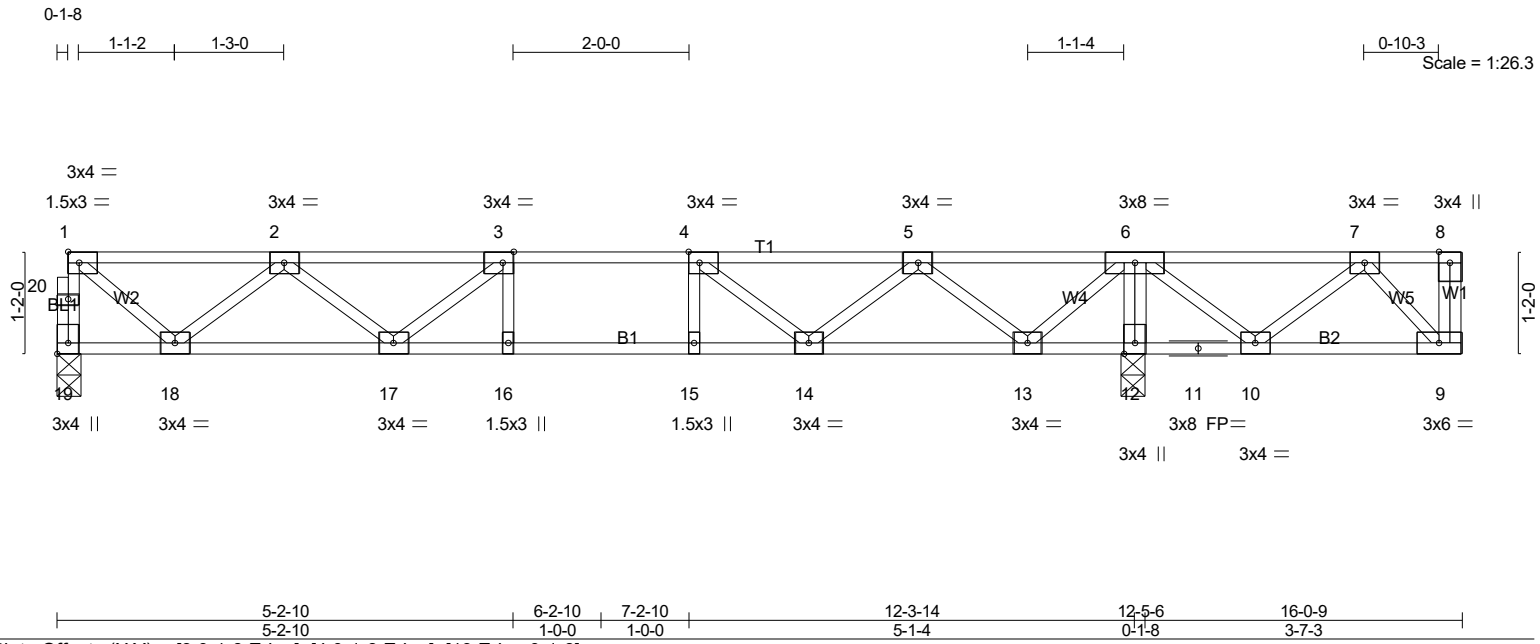


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [19:Edge,0-1-8]

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.33	Vert(LL)	-0.08	16-17	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.53	Vert(CT)	-0.10	16-17	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.02	12	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 83 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)

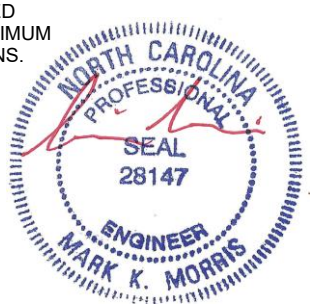
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) 19=485/0-3-6 (min. 0-1-8), 12=900/0-3-8 (min. 0-1-8)
Max Grav 19=519(LC 3), 12=900(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 19-20=-516/0, 1-20=-515/0, 1-2=-519/0, 2-3=-1260/0, 3-4=-1475/0, 4-5=-1204/19, 5-6=-411/328
BOT CHORD 17-18=0/1028, 16-17=0/1475, 15-16=0/1475, 14-15=0/1475, 13-14=-165/934, 12-13=-511/0, 11-12=-509/0, 10-11=-509/0
WEBS 6-12=-882/0, 3-17=-362/53, 2-17=0/313, 2-18=-662/0, 1-18=0/657, 4-14=-533/0, 5-14=0/425, 5-13=-711/0, 6-13=0/727, 6-10=0/342, 7-10=-301/0

NOTES- (4-7)
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.
4) 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.
5) 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.
6) 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.
7) 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



6/2/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0019 HONEYCUTT HILLS | 400 SHELBY MEADOW LANE ANGIER, NC
25-4771-F02	F06	Floor	3	1	Job Reference (optional) **# 59841**

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Mon Jun 2 23:16:47 2025 Page 1
ID:C6coucD2lwHaZ3sGy11mE3yowb3-2diCQLLeW_58kuzkmbvcLJnoCT7sGJSNhgJc7CzABNU

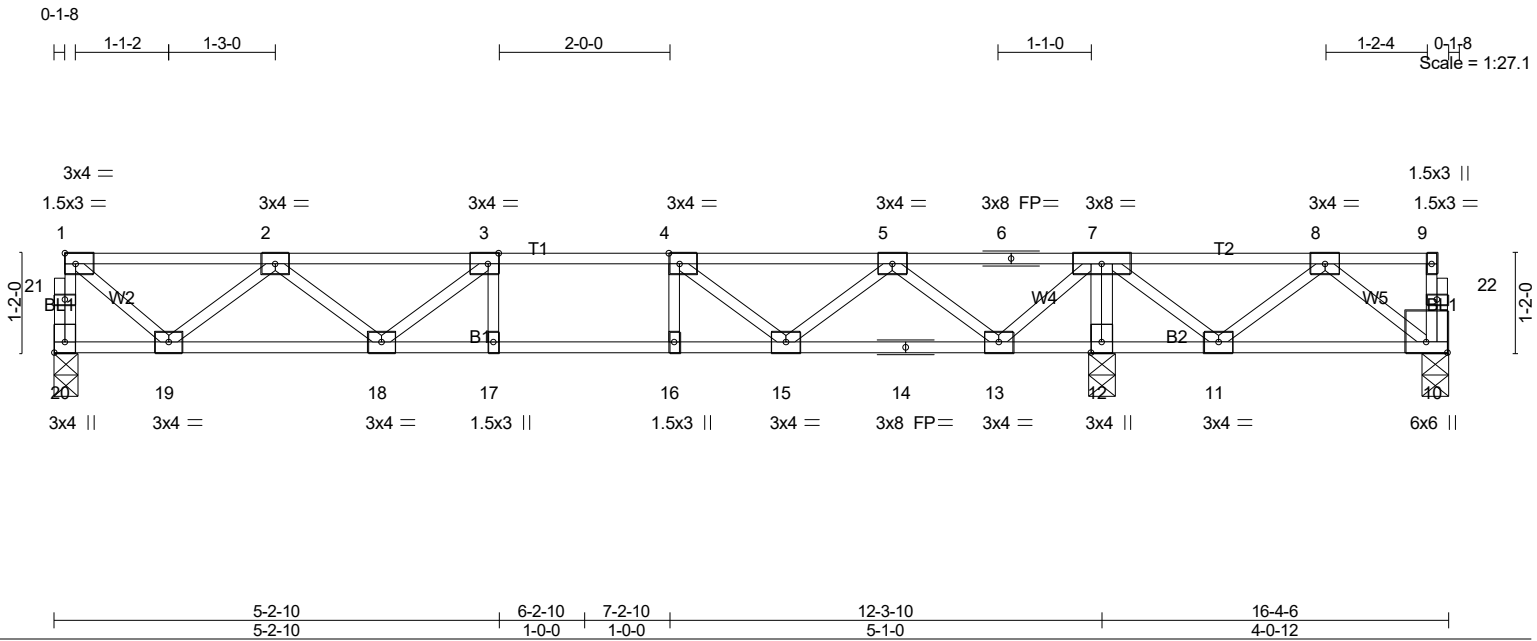


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [10:Edge,0-3-0], [20:Edge,0-1-8]

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.28	Vert(LL)	-0.07	17-18	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.47	Vert(CT)	-0.10	17-18	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.01	12	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 84 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=469/0-3-6 (min. 0-1-8), 12=961/0-3-8 (min. 0-1-8), 10=-22/0-3-8 (min. 0-1-8)
Max Uplift10=-139(LC 3)
Max Grav20=471(LC 3), 12=961(LC 1), 10=111(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 20-21=-466/0, 1-21=-465/0, 1-2=-464/0, 2-3=-1088/0, 3-4=-1195/0, 4-5=-817/0, 5-6=-115/292, 6-7=-115/292, 7-8=0/424
BOT CHORD 18-19=0/921, 17-18=0/1195, 16-17=0/1195, 15-16=0/1195, 14-15=0/480, 13-14=0/480, 12-13=-791/0, 11-12=-787/0
WEBS 7-12=-944/0, 2-19=-596/0, 1-19=0/587, 4-15=-492/0, 5-15=0/445, 5-13=-745/0, 7-13=0/757, 7-11=0/457, 8-11=-411/0, 8-10=-135/252

NOTES- (5-8)
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 139 lb uplift at joint 10.
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.
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

6/2/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0019 HONEYCUTT HILLS | 400 SHELBY MEADOW LANE ANGIER, NC
25-4771-F02	F07	FLOOR	7	1	Job Reference (optional) **# 59841**

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Mon Jun 2 23:16:48 2025 Page 1
ID:C6coucD2IwHaZ3sGy11mE3yowb3-WpFaehMHHID?M2YxKIRrtXKwWsL0?kdWwK39fezABNT

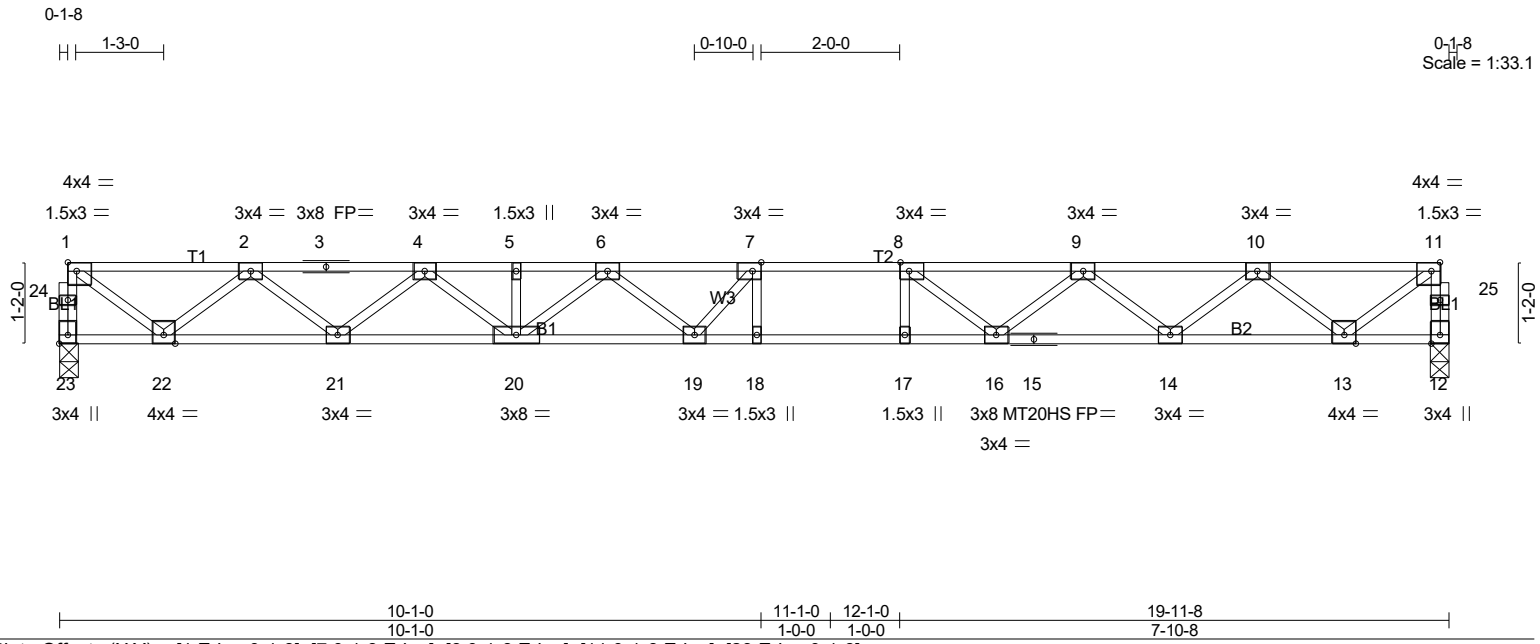


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [7:0-1-8,Edge], [8:0-1-8,Edge], [11:0-1-8,Edge], [23:Edge,0-1-8]

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	0.43	Vert(LL)	-0.32	18	>736	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.99	Vert(CT)	-0.44	18-19	>535	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.06	12	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 100 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:
2-2-0 oc bracing: 18-19,17-18.

REACTIONS. (lb/size) 23=718/0-3-8 (min. 0-1-8), 12=718/0-3-0 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 23-24=-715/0, 1-24=-714/0, 12-25=-714/0, 11-25=-713/0, 1-2=-855/0, 2-3=-2137/0, 3-4=-2137/0, 4-5=-2994/0, 5-6=-2994/0, 6-7=-3356/0, 7-8=-3344/0, 8-9=-2961/0, 9-10=-2139/0, 10-11=-854/0
BOT CHORD 21-22=0/1614, 20-21=0/2638, 19-20=0/3277, 18-19=0/3344, 17-18=0/3344, 16-17=0/3344, 15-16=0/2637, 14-15=0/2637, 13-14=0/1614
WEBS 1-22=0/1037, 2-22=-987/0, 2-21=0/681, 4-21=-652/0, 4-20=0/455, 6-20=-361/0, 6-19=-49/276, 8-16=-623/0, 9-16=0/468, 9-14=-648/0, 10-14=0/684, 10-13=-988/0, 11-13=0/1036, 7-19=-288/250

NOTES- (4)
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
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.

LOAD CASE(S) Standard

6/2/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0019 HONEYCUTT HILLS | 400 SHELBY MEADOW LANE ANGIER, NC
25-4771-F02	F08	Floor	3	1	Job Reference (optional) **# 59841**

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Mon Jun 2 23:16:49 2025 Page 1
ID:C6coucD2lwHaZ3sGy11mE3yowb3-_0pyr1Mv2cLr_C77u0y4Qks4UGmlkCYf8_ojC5zABNS

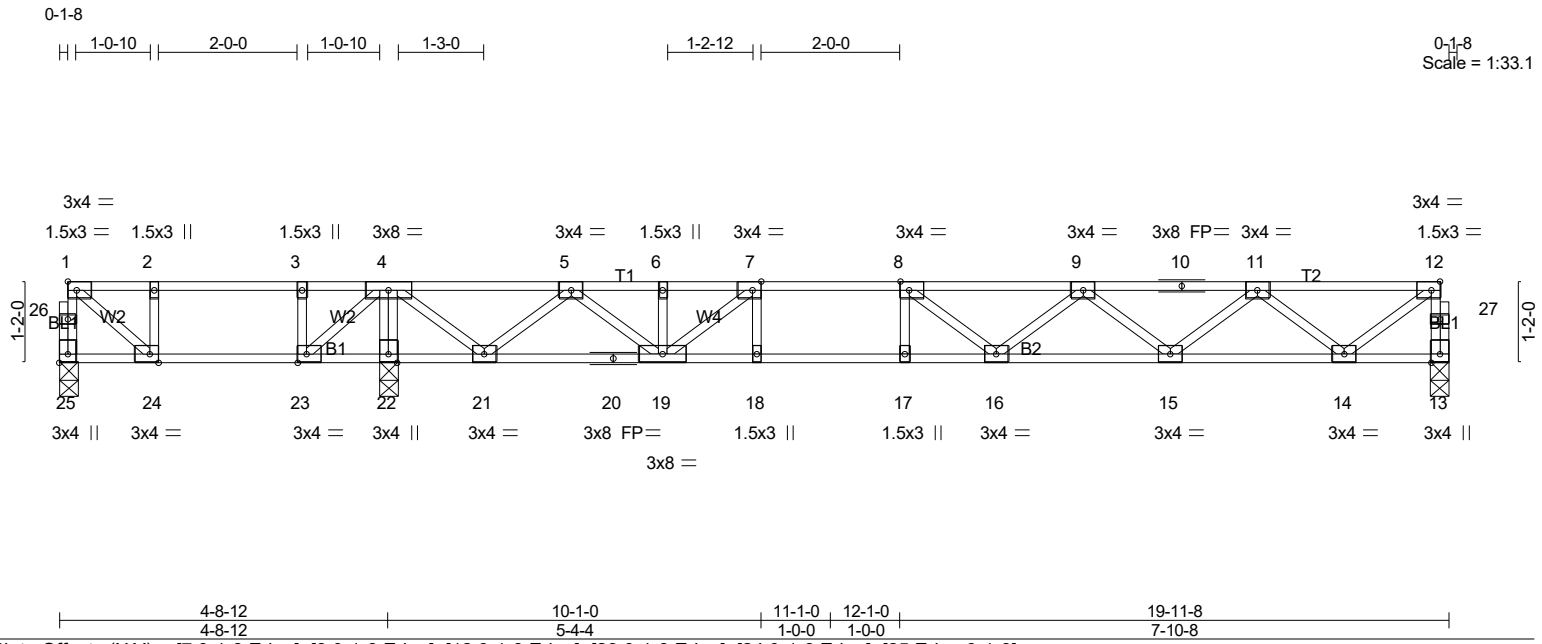


Plate Offsets (X,Y)-- [7:0-1-8,Edge], [8:0-1-8,Edge], [12:0-1-8,Edge], [23:0-1-8,Edge], [24:0-1-8,Edge], [25:Edge,0-1-8]

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	0.48	Vert(LL)	-0.17	16-17	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.70	Vert(CT)	-0.22	16-17	>807	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.03	13	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 101 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=99/0-3-8 (min. 0-1-8), 13=530/0-3-0 (min. 0-1-8), 22=809/0-3-8 (min. 0-1-8)
Max Horz 25=26(LC 4)
Max Uplift25=-49(LC 11), 13=-46(LC 7)
Max Grav 25=157(LC 12), 13=549(LC 18), 22=809(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 13-27=-546/48, 12-27=-545/47, 2-3=-311/289, 3-4=-435/442, 4-5=-664/364, 5-6=-1327/11, 6-7=-1403/180, 7-8=-1789/0, 8-9=-1817/0, 9-10=-1450/0, 10-11=-1450/0, 11-12=-625/44
BOT CHORD 22-23=-455/225, 21-22=-452/226, 20-21=0/1105, 19-20=0/963, 18-19=-207/1882, 17-18=0/1789, 16-17=0/1789, 15-16=0/1750, 14-15=-25/1139
WEBS 7-18=-124/260, 4-22=-839/0, 4-23=-93/440, 4-21=-77/852, 5-21=-760/90, 5-19=-105/544, 8-16=-436/441, 9-16=-249/347, 9-15=-475/144, 11-15=-135/505, 11-14=-744/119, 12-14=-93/787, 7-19=-908/379

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 49 lb uplift at joint 25 and 46 lb uplift at joint 13.
3) This truss has been designed for a total drag load of 125 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 4-8-12 to 19-11-8 for 163.8 plf.
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

6/2/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0019 HONEYCUTT HILLS | 400 SHELBY MEADOW LANE ANGIER, NC
25-4771-F02	F09	Floor	1	1	# 59841
					Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Mon Jun 2 23:16:50 2025 Page 1
ID:C6coucD2IwHaZ3sGy11mE3yowb3-SCNK3NNXpvTibMiJRjTJzyPIRg9aTgDpNeYGkXzABNR

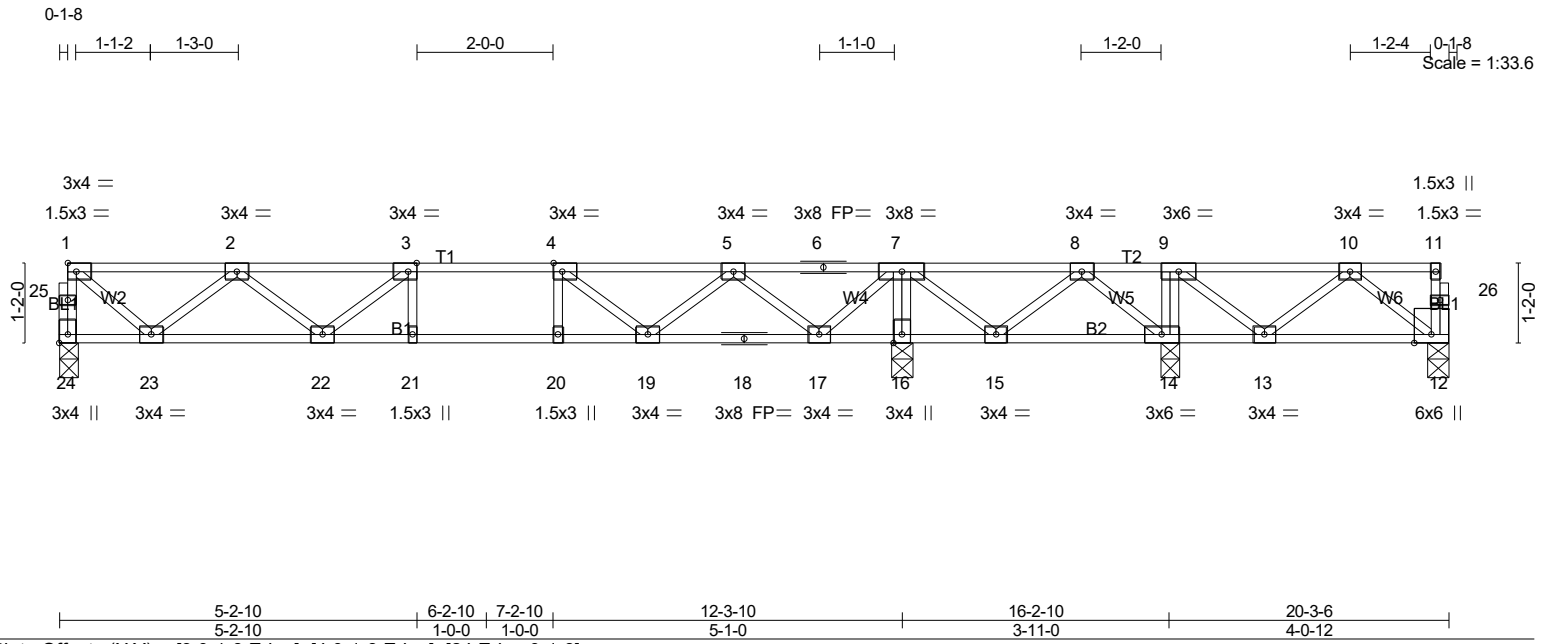


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [24:Edge,0-1-8]

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.28	Vert(LL)	-0.07	21-22	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.47	Vert(CT)	-0.10	21-22	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.01	16	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 105 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)

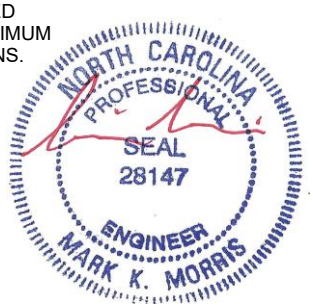
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-3-8 except (jt=length) 24=0-3-6.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 12 except 24=471(LC 5), 16=940(LC 3), 14=350(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 24-25=-466/0, 1-25=-465/0, 1-2=-464/0, 2-3=-1088/0, 3-4=-1196/0, 4-5=-818/0, 5-6=-117/290, 6-7=-117/290, 7-8=0/468
BOT CHORD 22-23=0/921, 21-22=0/1196, 20-21=0/1196, 19-20=0/1196, 18-19=0/481, 17-18=0/481, 16-17=-788/0, 15-16=-784/0, 14-15=-255/58
WEBS 7-16=-922/0, 9-14=-256/0, 2-23=-596/0, 1-23=0/587, 4-19=-491/0, 5-19=0/445, 5-17=-744/0, 7-17=0/755, 7-15=0/398, 8-15=-359/0, 8-14=-155/267

NOTES- (4-7)
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.
4) 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.
5) 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.
6) 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.
7) 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



6/2/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0019 HONEYCUTT HILLS | 400 SHELBY MEADOW LANE ANGIER, NC
25-4771-F02	F10	Floor	1	1	# 59841
					Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Mon Jun 2 23:16:50 2025 Page 1
ID:C6coucD2IwHaZ3sGy11mE3yowb3-SCNK3NNXpvTibMiJRjTJzyPI4g9ETgEpNeYGkXzABNR

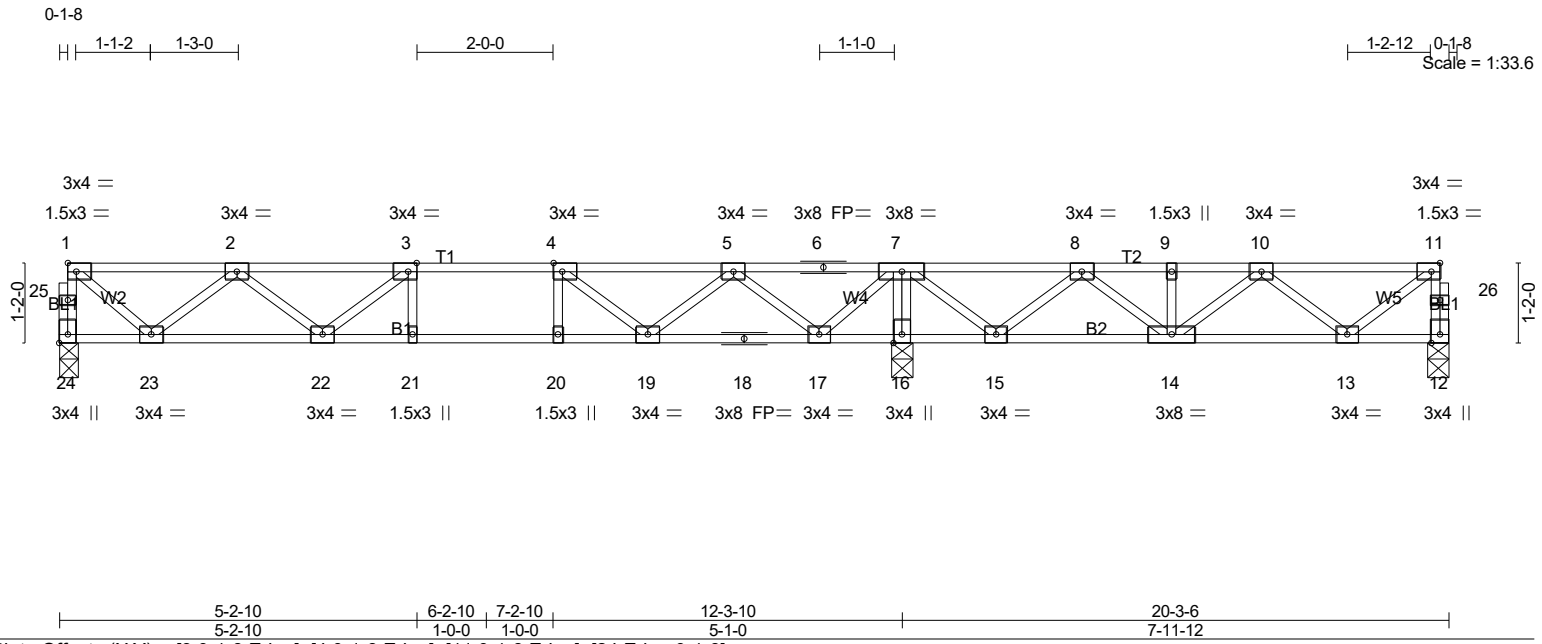


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [11:0-1-8,Edge], [24:Edge,0-1-8]

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.30	Vert(LL)	-0.07	21-22	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.49	Vert(CT)	-0.10	21-22	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.01	12	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 104 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) 24=462/0-3-6 (min. 0-1-8), 12=234/0-3-8 (min. 0-1-8), 16=1055/0-3-8 (min. 0-1-8)
Max Grav 24=473(LC 3), 12=295(LC 4), 16=1055(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 24-25=-468/0, 1-25=-467/0, 12-26=-291/0, 11-26=-291/0, 1-2=-466/0, 2-3=-1096/0, 3-4=-1208/0, 4-5=-835/0, 5-6=-1/353, 6-7=-1/353, 7-8=-64/449, 8-9=-477/152, 9-10=-477/152, 10-11=-275/20
BOT CHORD 22-23=0/926, 21-22=0/1208, 20-21=0/1208, 19-20=0/1208, 18-19=-4/501, 17-18=-4/501, 16-17=-857/0, 15-16=-852/0, 14-15=-292/385, 13-14=-59/505
WEBS 7-16=-1035/0, 2-23=-599/0, 1-23=0/590, 4-19=-511/0, 5-19=0/458, 5-17=-742/0, 7-17=0/754, 7-15=0/568, 8-15=-523/0, 10-13=-299/51, 11-13=-25/331

NOTES- (4-7)
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.
4) 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.
5) 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.
6) 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.
7) 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

6/2/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0019 HONEYCUTT HILLS | 400 SHELBY MEADOW LANE ANGIER, NC
25-4771-F02	F12	Floor	2	1	Job Reference (optional) **# 59841**

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Mon Jun 2 23:16:51 2025 Page 1
ID:C6coucD2lwHaZ3sGy11mE3yowb3-wOxjGjO9aDbZDWHW?R_YV9yOg4OOC6wycIHpGzzABNQ

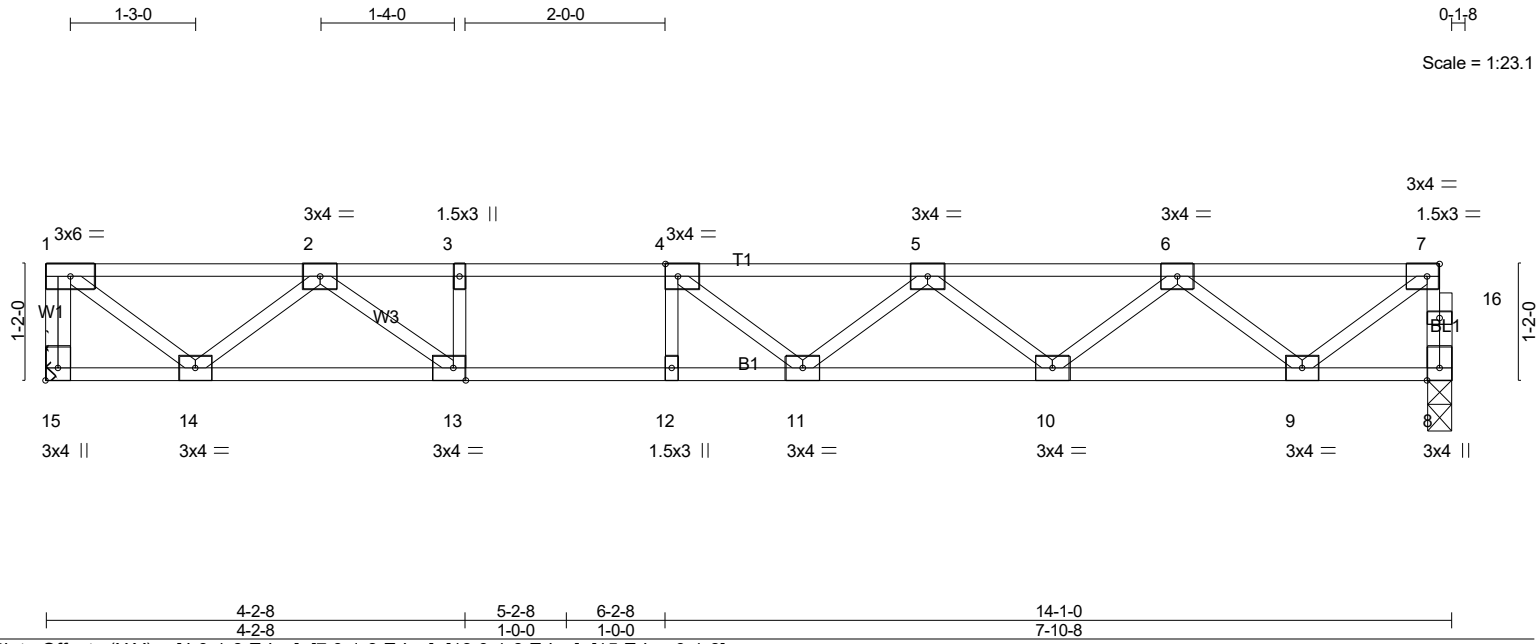


Plate Offsets (X,Y)-- [4:0-1-8,Edge], [7:0-1-8,Edge], [13:0-1-8,Edge], [15:Edge,0-1-8]

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.63	Vert(LL)	-0.18	11-12	>918	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.88	Vert(CT)	-0.24	11-12	>679	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.03	8	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 70 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=608/Mechanical, 8=603/0-3-0 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-15=-584/0, 8-16=-600/0, 7-16=-599/0, 1-2=-647/0, 2-3=-1848/0, 3-4=-1848/0, 4-5=-1966/0, 5-6=-1613/0, 6-7=-684/0
BOT CHORD 13-14=0/1288, 12-13=0/1848, 11-12=0/1848, 10-11=0/1937, 9-10=0/1278
WEBS 3-13=-291/0, 1-14=0/812, 2-14=-834/0, 2-13=0/782, 4-11=-129/255, 5-10=-423/0, 6-10=0/436, 6-9=-772/0, 7-9=0/828

NOTES- (5)
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
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

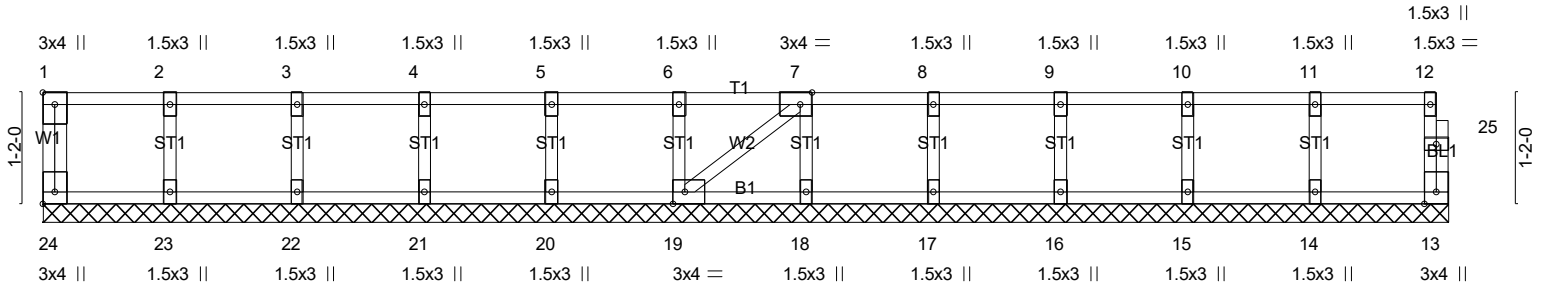
6/2/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0019 HONEYCUTT HILLS | 400 SHELBY MEADOW LANE ANGIER, NC
25-4771-F02	F13	Floor Supported Gable	1	1	Job Reference (optional) **# 59841**

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Mon Jun 2 23:16:51 2025 Page 1
ID:lovsufdhNr7VckecRyt1FFyBNDc-wOxjGjO9aDbZDWHW?R_YV9yXa4b3CCayclHpGzzABNQ

0-1-8

Scale: 1/2"=1'



14-8-12
14-8-12

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [7:0-1-8,Edge], [19:0-1-8,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: 65 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 14-8-12.
(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

6/2/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0019 HONEYCUTT HILLS | 400 SHELBY MEADOW LANE ANGIER, NC
25-4771-F02	F14	Floor	1	1	# 59841
					Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Mon Jun 2 23:16:51 2025 Page 1
ID:C6coucD2lwHaZ3sGy11mE3yowb3-wOxjGjO9aDbZDWHW?R_YV9yS?4TqC8dycIHpGzzABNQ

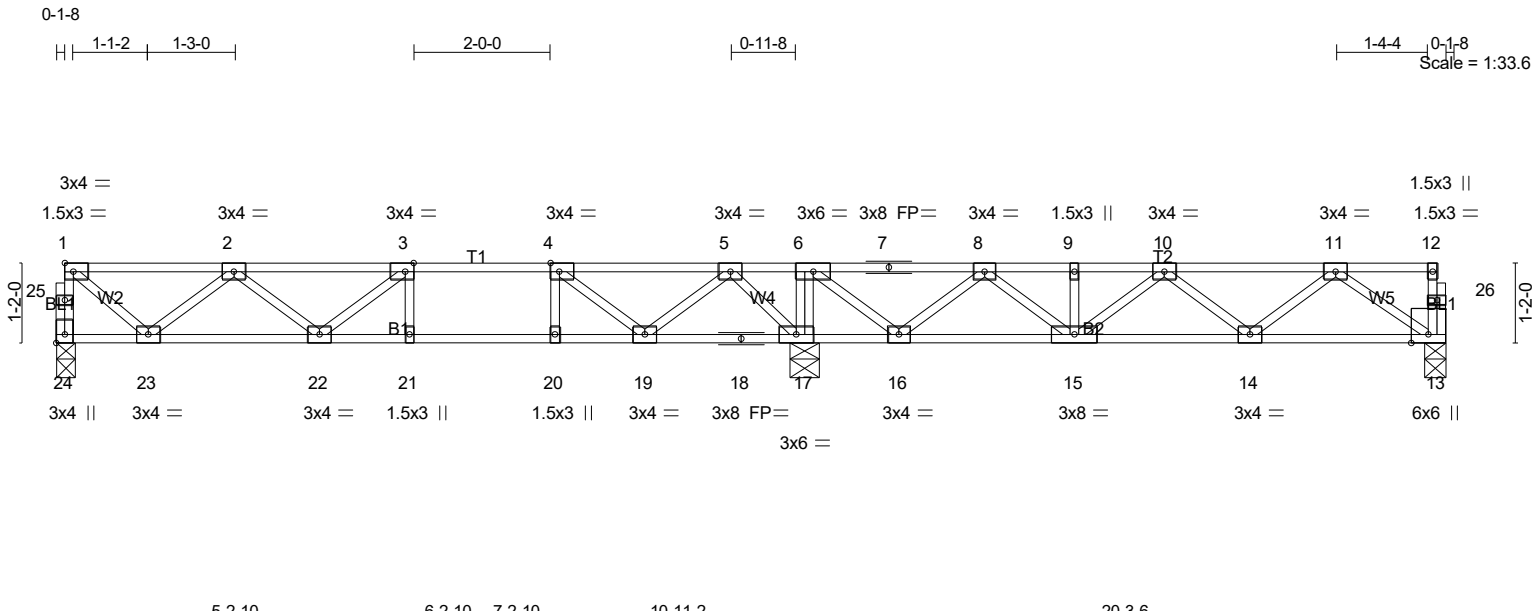


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [24:Edge,0-1-8]

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.35	Vert(LL)	-0.08	21-22	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.53	Vert(CT)	-0.10	21-22	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.02	13	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 104 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)

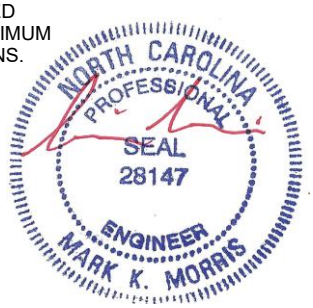
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 17-19,16-17.

REACTIONS. (lb/size) 24=425/0-3-6 (min. 0-1-8), 17=979/0-5-8 (min. 0-1-8), 13=348/0-3-8 (min. 0-1-8)
Max Grav 24=443(LC 3), 17=979(LC 1), 13=379(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 24-25=-438/0, 1-25=-437/0, 1-2=-432/0, 2-3=-989/0, 3-4=-1037/0, 4-5=-588/25, 5-6=0/602, 6-7=-262/124, 7-8=-262/124, 8-9=-767/0, 9-10=-767/0, 10-11=-666/0
BOT CHORD 22-23=0/860, 21-22=0/1037, 20-21=0/1037, 19-20=0/1037, 16-17=-602/0, 15-16=0/622, 14-15=0/826, 13-14=0/479
WEBS 6-17=-526/0, 2-23=-557/0, 1-23=0/546, 4-19=-629/0, 5-19=0/529, 5-17=-650/0, 6-16=0/599, 8-16=-551/0, 8-15=0/266, 11-13=-584/0

NOTES- (4-7)
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.
4) 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.
5) 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.
6) 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.
7) 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



6/2/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0019 HONEYCUTT HILLS | 400 SHELBY MEADOW LANE ANGIER, NC
25-4771-F02	F15	FLOOR GIRDER	1	1	Job Reference (optional) **# 59841**

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Mon Jun 2 23:16:52 2025 Page 1
ID:lovsufdhNr7VckecRyt1FFyBNDc-ObV5T3PnLXjQrgriZ8Vn2NUWpUj8xSa6qy1NoPzABNP

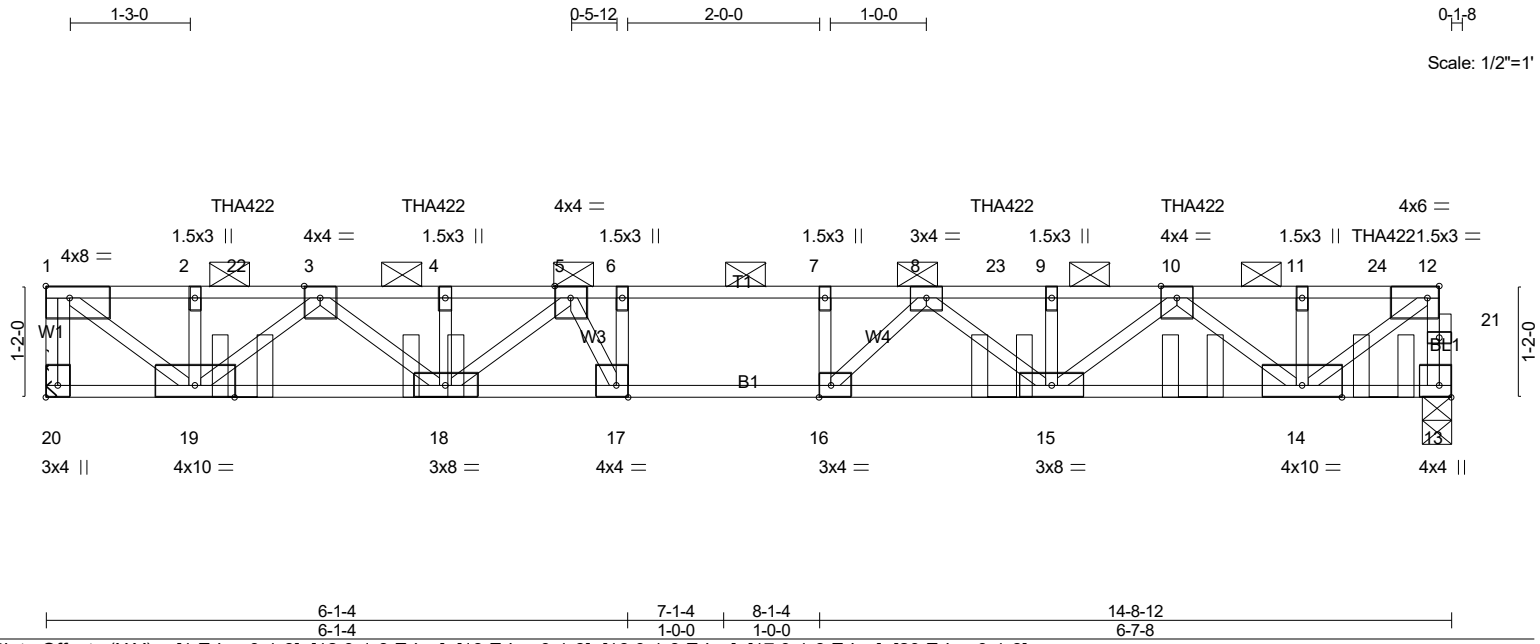


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [12:0-1-8,Edge], [13:Edge,0-1-8], [16:0-1-8,Edge], [17:0-1-8,Edge], [20:Edge,0-1-8]

LOADING (psf)		**SPACING-** 2-3-0		**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.80	Vert(LL)	-0.20	15-16	>864	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.91	Vert(CT)	-0.28	15-16	>614	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.88	Horz(CT)	0.05	13	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 79 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 2-0-0 oc purlins (6-0-0 max.), except end verticals (Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 20=1152/Mechanical, 13=1274/0-3-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-20=-1145/0, 13-21=-1267/0, 12-21=-1265/0, 1-2=-1495/0, 2-22=-1495/0, 3-22=-1495/0, 3-4=-3265/0, 4-5=-3265/0, 5-6=-3863/0, 6-7=-3863/0, 7-8=-3863/0, 8-23=-3334/0, 9-23=-3334/0, 9-10=-3334/0, 10-11=-1541/0, 11-24=-1541/0, 12-24=-1541/0
BOT CHORD 18-19=0/2503, 17-18=0/3680, 16-17=0/3863, 15-16=0/3740, 14-15=0/2579
WEBS 6-17=-426/0, 1-19=0/1846, 2-19=-256/0, 3-19=-1288/0, 3-18=0/972, 4-18=-264/0, 5-18=-530/0, 12-14=0/1839, 11-14=-268/0, 10-14=-1324/0, 10-15=0/965, 8-15=-517/0, 5-17=0/588, 8-16=-8/312

NOTES- (9)
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
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 5-11-8 oc max. starting at 2-0-12 from the left end to 14-0-4 to connect truss(es) F16 (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: 13-20=-11, 1-12=-113
Concentrated Loads (lb)
Vert: 4=-118(F) 10=-118(F) 22=-120(F) 23=-118(F) 24=-166(F)

6/2/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0019 HONEYCUTT HILLS | 400 SHELBY MEADOW LANE ANGIER, NC
25-4771-F02	F16	FLOOR	5	1	Job Reference (optional) **# 59841**

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Mon Jun 2 23:16:52 2025 Page 1
ID:IovsufdhNr7VckecRyt1FFyBNDc-ObV5T3PnLXjQrgriZ8Vn2NUYFUxDxf66qy1NoPzABNP

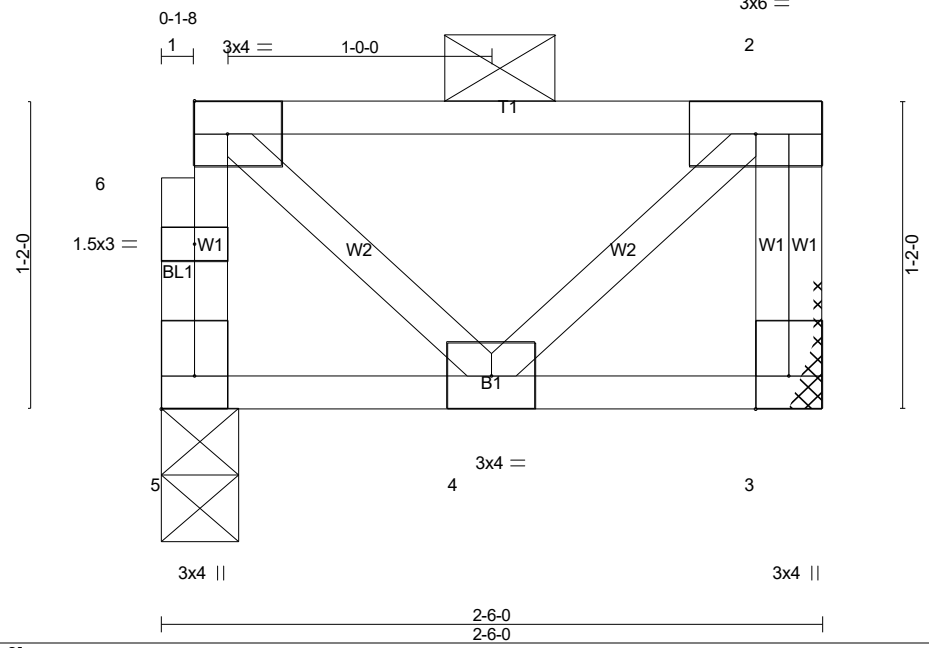


Plate Offsets (X,Y)-- [5:Edge,0-1-8]

LOADING (psf)		**SPACING-**	4-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	-0.00	4	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	-0.00	5	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.01	Horz(CT)	0.00	3	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-P							Weight: 16 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 2-0-0 oc purlins, except end verticals
(Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=235/0-3-8 (min. 0-1-8), 3=247/Mechanical

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

NOTES- (5)
1) Refer to girder(s) for truss to truss connections.
2) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
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

6/2/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0019 HONEYCUTT HILLS | 400 SHELBY MEADOW LANE ANGIER, NC
25-4771-F02	F17	Floor	11	1	Job Reference (optional) **# 59841**

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Mon Jun 2 23:16:52 2025 Page 1
ID:C6coucD2lwHaZ3sGy11mE3yowb3-ObV5T3PnLXjQrgriZ8Vn2NUeVUobxaw6qy1NoPzABNP

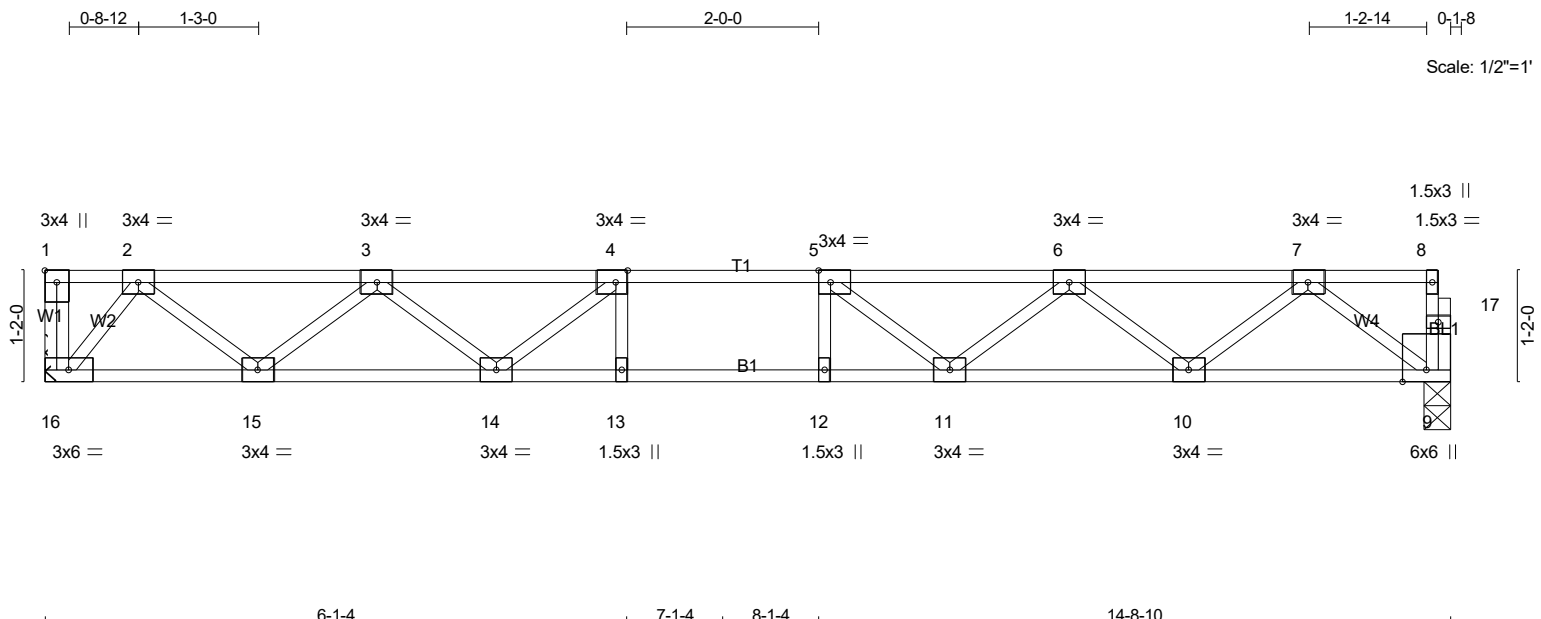


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.31	Vert(LL)	-0.12	11-12	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.63	Vert(CT)	-0.16	11-12	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.03	9	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)

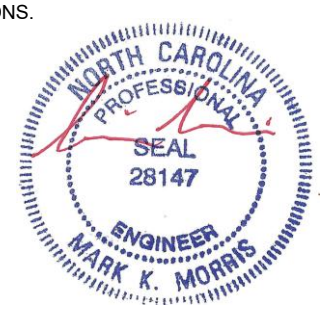
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 16=636/Mechanical, 9=631/0-3-6 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1074/0, 3-4=-1888/0, 4-5=-2183/0, 5-6=-1988/0, 6-7=-1284/0
BOT CHORD 15-16=0/517, 14-15=0/1605, 13-14=0/2183, 12-13=0/2183, 11-12=0/2183, 10-11=0/1768, 9-10=0/775
WEBS 4-14=-493/0, 3-14=0/396, 3-15=-691/0, 2-15=0/725, 2-16=-815/0, 5-11=-405/0, 6-11=0/339, 6-10=-629/0, 7-10=0/663, 7-9=-973/0

NOTES- (5-8)
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
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.
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



6/2/2025

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 53719.