

# Mark Morris, P.E.

#126, 1317-M, Summerville, SC 29483  
843 209-5784, Fax (866)-213-4614

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 #: 53383  
JOB: 24-8632-F02  
JOB NAME: LOT 0.0016 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 2018 as well as IRC 2021.  
*13 Truss Design(s)*

## Trusses:

F01, F02, F03, F04, F05, F06, F07, F08, F09, F10, F11, F12, F13



**10/14/2024**

**Mark Morris**

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

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0016 HONEYCUTT HILLS   393 SHELBY MEADOW LANE ANGIER, NC
24-8632-F02	F01	Floor Supported Gable	1	1	Job Reference (optional) # 53383

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Oct 15 17:36:24 2024 Page 1  
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0<sub>1</sub>8

0<sub>1</sub>8

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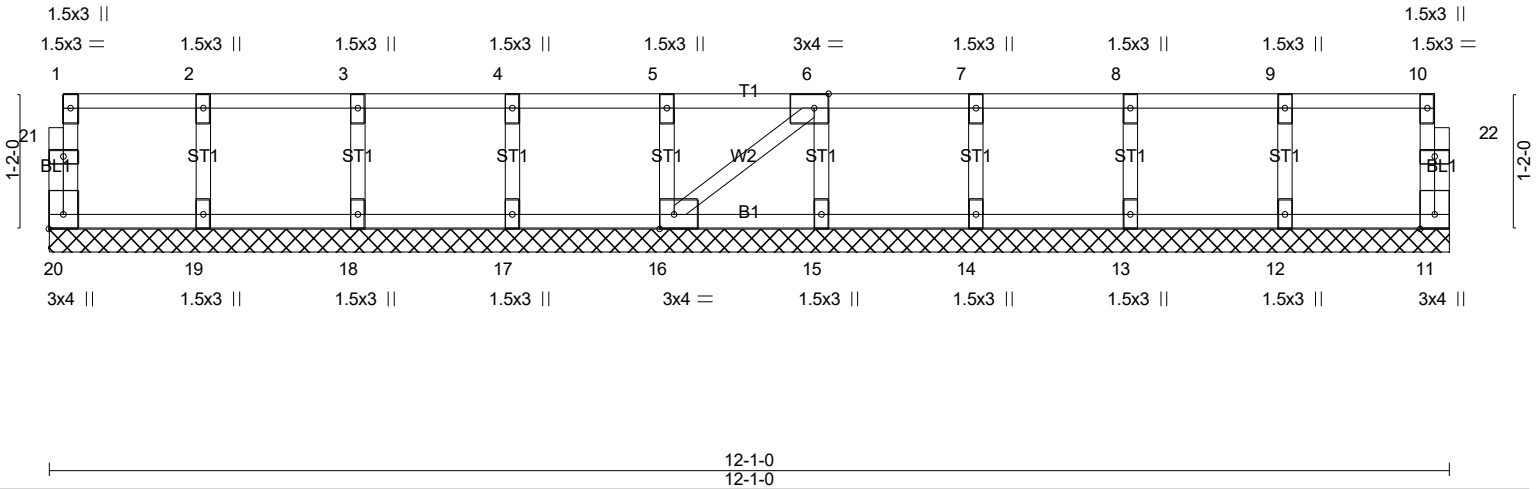


Plate Offsets (X,Y)-- [6:0-1-8,Edge], [16:0-1-8,Edge], [20:Edge,0-1-8]					
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL 1.00	TC 0.06	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.01	Vert(CT) 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

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

**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-** (5-8)
- Gable requires continuous bottom chord bearing.
  - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - Gable studs spaced at 1-4-0 oc.
  - 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.
  - 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.
  - 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.
  - 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.
  - 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



10/14/2024

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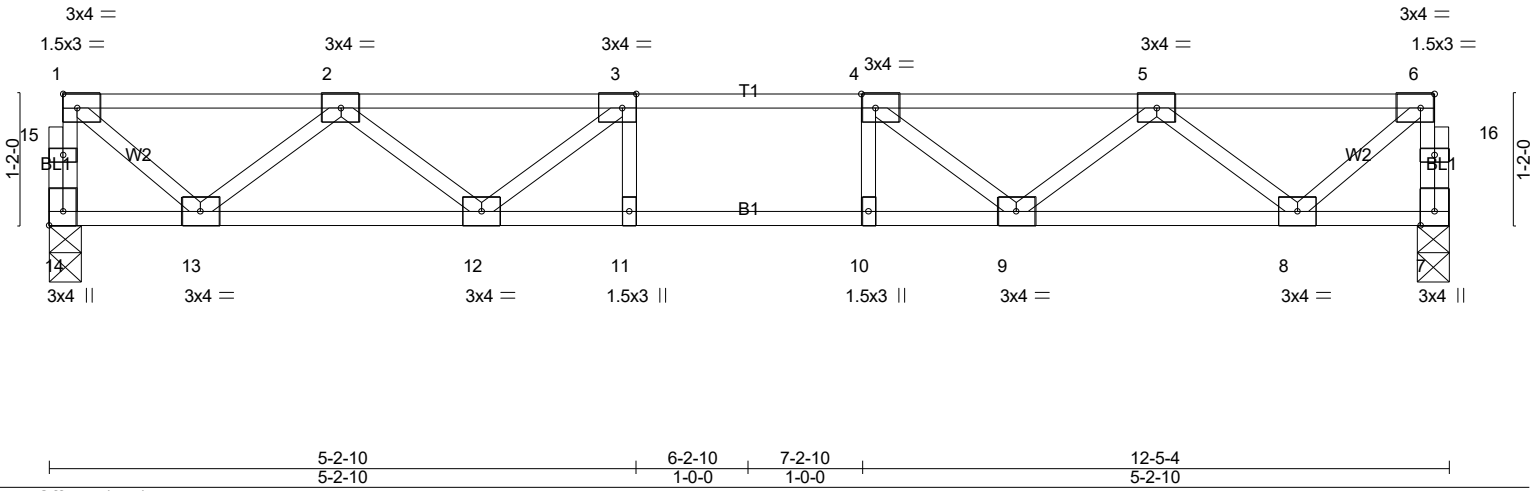
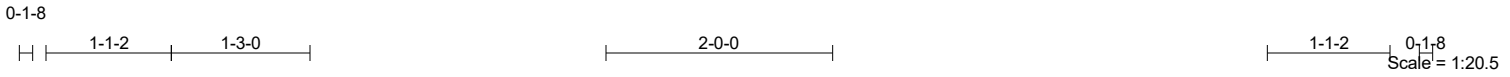


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [6:0-1-8,Edge], [14:Edge,0-1-8]	
<b>LOADING</b> (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	<b>SPACING-</b> 1-7-3 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2021/TPI2014
<b>CSI.</b> TC 0.23 BC 0.44 WB 0.32 Matrix-SH	<b>DEFL.</b> in (loc) l/defl L/d Vert(LL) -0.07 11-12 >999 480 Vert(CT) -0.09 11 >999 360 Horz(CT) 0.02 7 n/a n/a
<b>PLATES</b> MT20 <b>GRIP</b> 244/190 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



10/14/2024

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0016 HONEYCUTT HILLS   393 SHELBY MEADOW LANE ANGIER, NC
24-8632-F02	F03	Floor	1	1	
					# 53383

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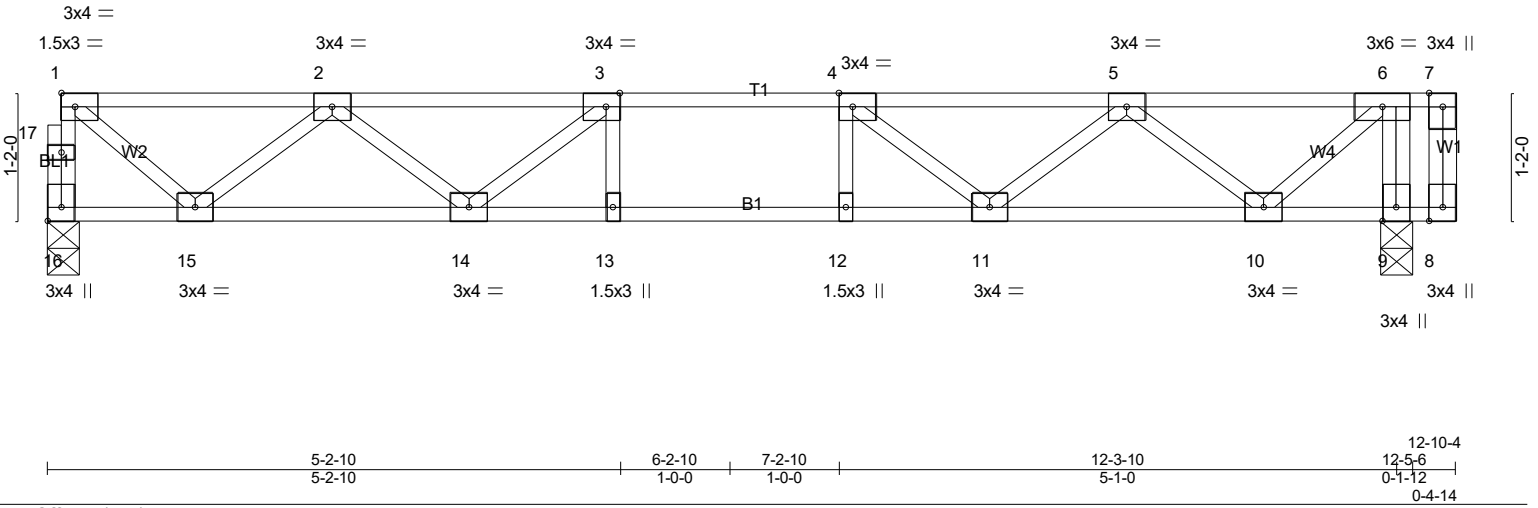
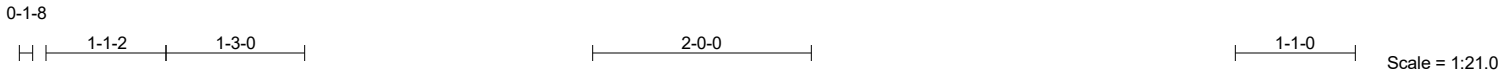


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [16:Edge,0-1-8]

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

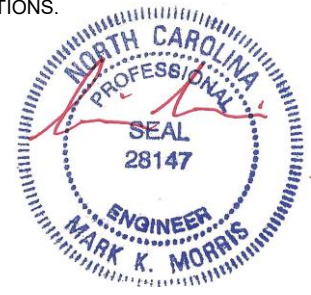
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**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)
- Unbalanced floor live loads have been considered for this design.
  - 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.
  - CAUTION, Do not erect truss backwards.
  - 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.
  - 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.
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**LOAD CASE(S)** Standard

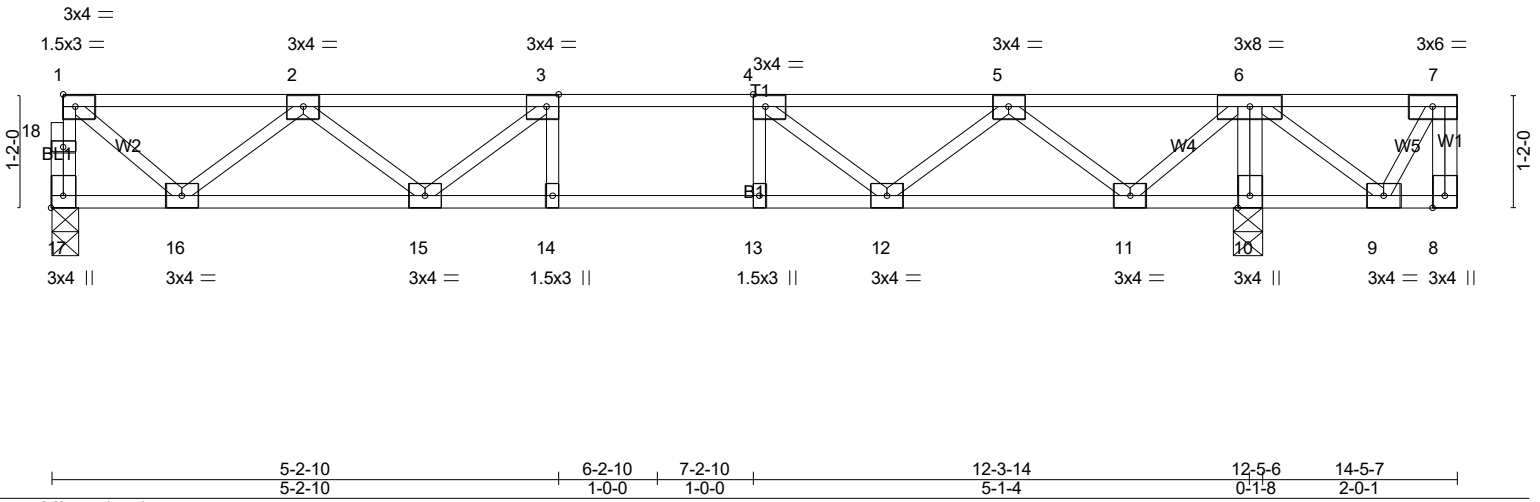
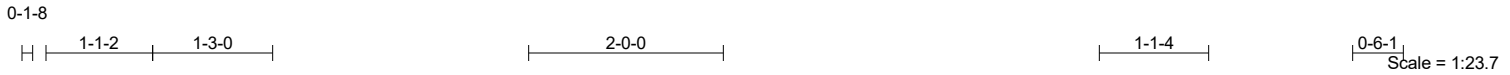


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Job 24-8632-F02	Truss F04	Truss Type Floor	Qty 1	Ply 1	LOT 0.0016 HONEYCUTT HILLS   393 SHELBY MEADOW LANE ANGIER, NC	# 53383
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LOADING (psf)	SPACING-	1-7-3	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
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)

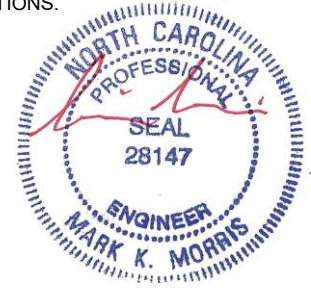
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 10-11,9-10.

**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)
- Unbalanced floor live loads have been considered for this design.
  - 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.
  - CAUTION, Do not erect truss backwards.
  - 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.
  - 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.
  - 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.
  - SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAINING/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

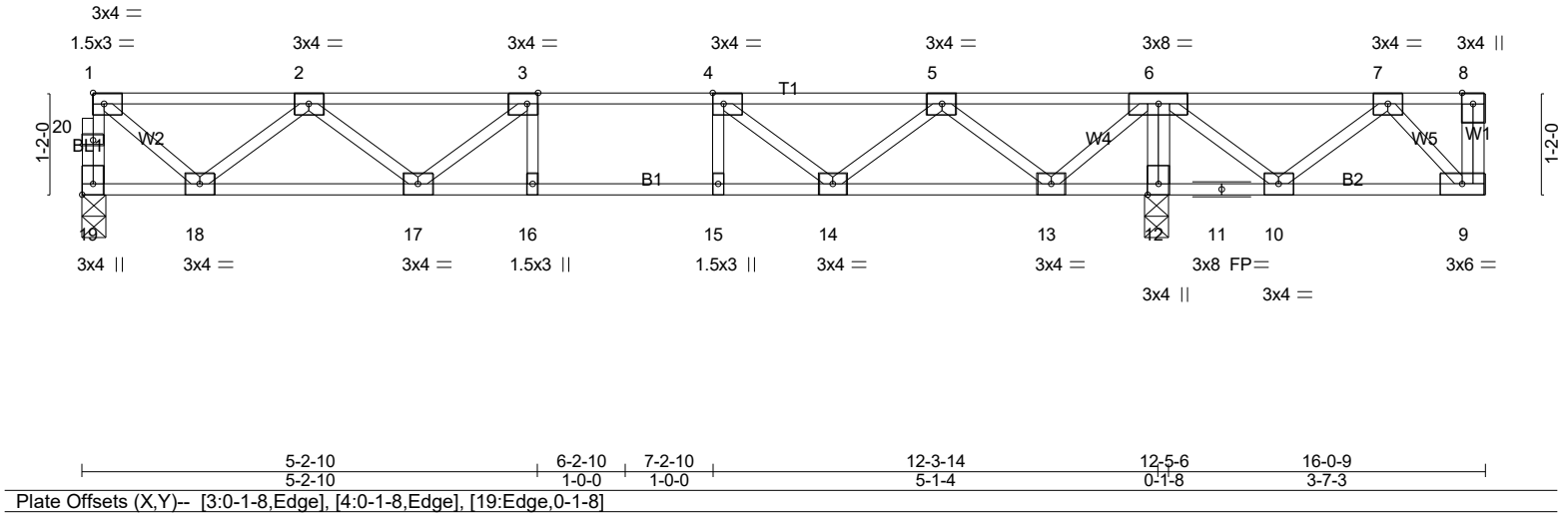


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Job	Truss	Truss Type	Qty	Ply	LOT 0.0016 HONEYCUTT HILLS   393 SHELBY MEADOW LANE ANGIER, NC
24-8632-F02	F05	Floor	1	1	Job Reference (optional) # 53383

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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	1-7-3	TC 0.33	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.53	Vert(LL) -0.08 16-17 >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.35	Vert(CT) -0.10 16-17 >999 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.02 12 n/a n/a		
	Code IRC2021/TPI2014			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.
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  - 7) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAINING/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

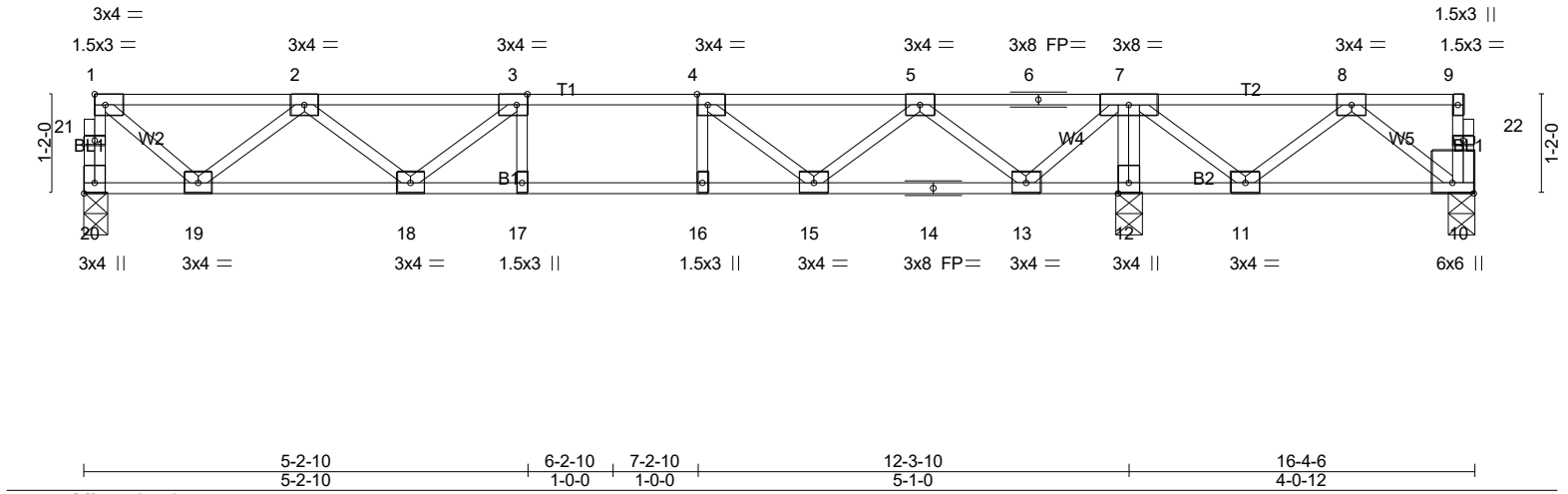


10/14/2024

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0016 HONEYCUTT HILLS   393 SHELBY MEADOW LANE ANGIER, NC
24-8632-F02	F06	Floor	3	1	
Job Reference (optional)					# 53383

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Oct 15 17:36:28 2024 Page 1  
 ID:C6coucD2lwHaZ3sGy11mE3yowb3-?G?j0leATaKHnqeDE7jxB0GdR?WmYRGKup0YKyT6VX



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	1-7-3	TC 0.28	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.47	Vert(LL) -0.07 17-18 >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.36	Vert(CT) -0.10 17-18 >999 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.01 12 n/a n/a		
	Code IRC2021/TPI2014			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)

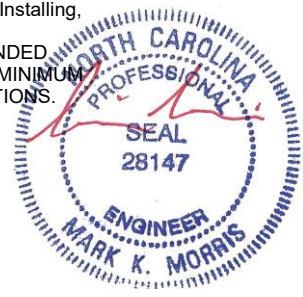
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**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 Uplift 10=-139(LC 3)  
 Max Grav 20=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 RESTRAINING/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

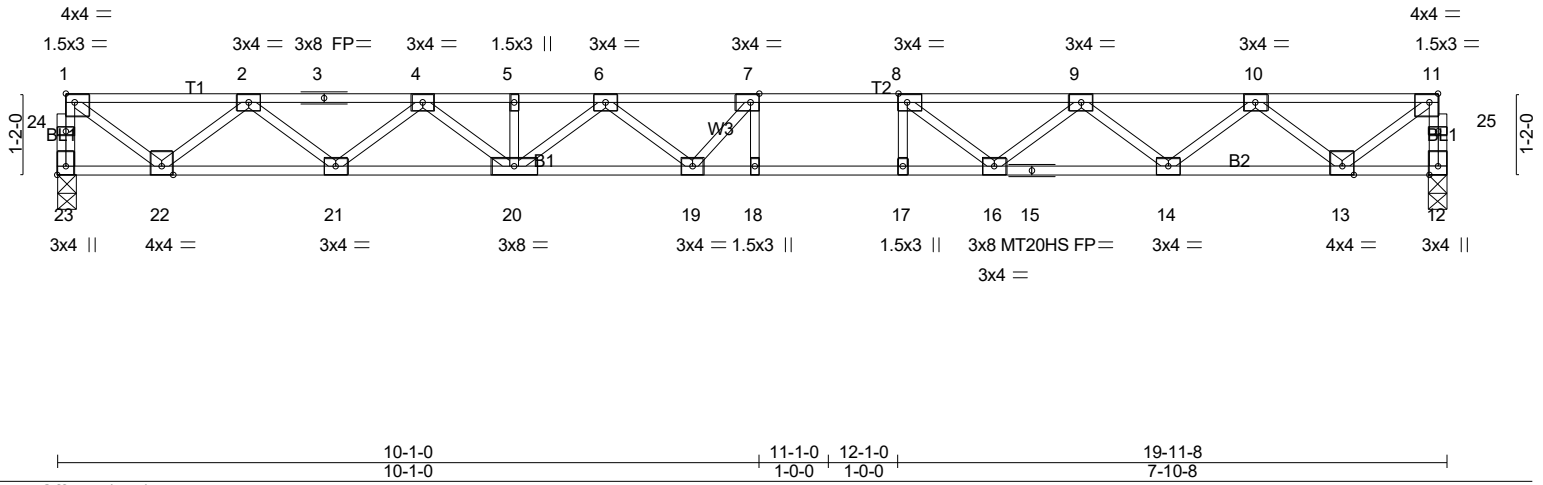
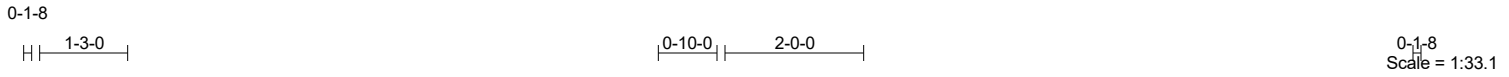


10/14/2024

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Job 24-8632-F02	Truss F07	Truss Type FLOOR	Qty 6	Ply 1	LOT 0.0016 HONEYCUTT HILLS   393 SHELBY MEADOW LANE ANGIER, NC	# 53383
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Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Oct 15 17:36:29 2024 Page 1  
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LOADING (psf)	SPACING-	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-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x4 SP No.3(flat)	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.

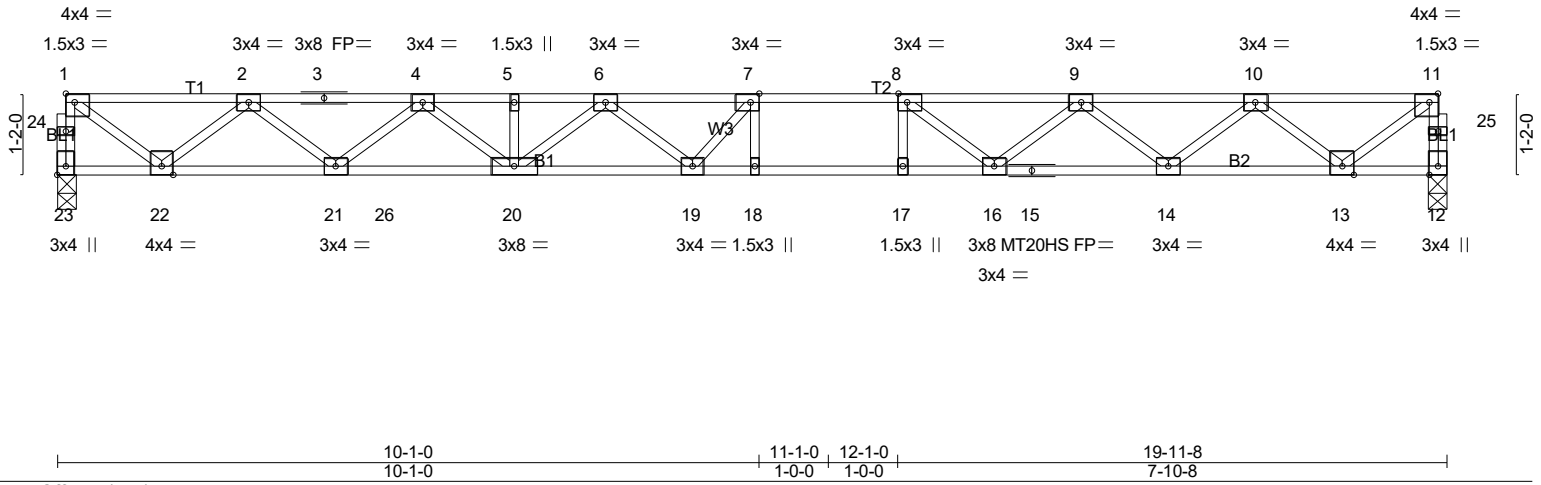
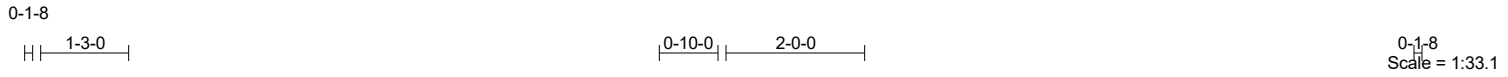
**LOAD CASE(S)** Standard



10/14/2024

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<b>LOADING</b> (psf)	<b>SPACING-</b>	1-4-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL	1.00	TC 0.52	Vert(LL)	-0.31 18	>774	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.70	Vert(CT)	-0.42 18-19	>563	360	MT20HS	187/143
BCLL 0.0	Rep Stress Incr	NO	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	

<b>LUMBER-</b> TOP CHORD 2x4 SP No.1(flat) BOT CHORD 2x4 SP SS(flat) *Except* B2: 2x4 SP No.1(flat) WEBS 2x4 SP No.3(flat)	<b>BRACING-</b> 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.
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**REACTIONS.** (lb/size) 23=718/0-3-8 (min. 0-1-8), 12=718/0-3-0 (min. 0-1-8)  
Max Horz 23=26(LC 4)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 23-24=-715/0, 1-24=-713/0, 12-25=-714/0, 11-25=-713/0, 1-2=-855/0, 2-3=-2137/0,  
3-4=-2137/0, 4-5=-2993/0, 5-6=-2993/0, 6-7=-3357/0, 7-8=-3344/0, 8-9=-2960/0,  
9-10=-2140/0, 10-11=-854/0  
BOT CHORD 21-22=-34/1613, 21-26=-137/2654, 20-26=-2/2638, 19-20=0/3276, 18-19=-4/3344,  
17-18=0/3344, 16-17=0/3344, 15-16=0/2638, 14-15=0/2638, 13-14=0/1614  
WEBS 7-18=-330/214, 8-17=-153/281, 1-22=0/1037, 2-22=-987/16, 2-21=-52/710, 4-21=-684/82,  
4-20=-121/537, 6-20=-422/106, 6-19=-217/399, 8-16=-776/274, 9-16=-135/551,  
9-14=-663/62, 10-14=-47/709, 10-13=-988/22, 11-13=0/1036, 7-19=-487/466

**NOTES-** (5)  
1) Unbalanced floor live loads have been considered for this design.  
2) All plates are MT20 plates unless otherwise indicated.  
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.

**LOAD CASE(S)** Standard

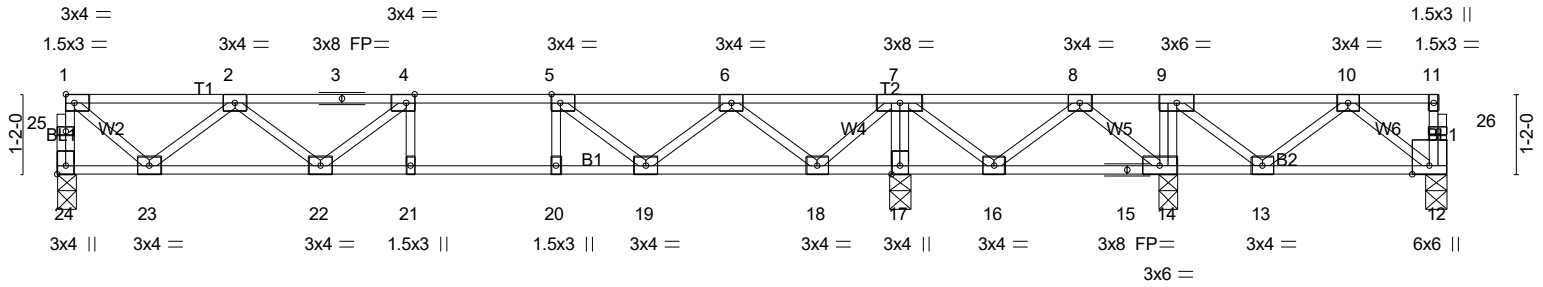


**10/14/2024**

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Job 24-8632-F02	Truss F09	Truss Type Floor	Qty 1	Ply 1	LOT 0.0016 HONEYCUTT HILLS   393 SHELBY MEADOW LANE ANGIER, NC	# 53383
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Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Oct 15 17:36:32 2024 Page 1  
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5-2-10	6-2-10	7-2-10	12-3-10	16-2-10	20-3-6
5-2-10	1-0-0	1-0-0	5-1-0	3-11-0	4-0-12
Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [24:Edge,0-1-8]					

<b>LOADING</b> (psf)	<b>SPACING-</b>	1-7-3	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
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 17	n/a	n/a		
BCDL 5.0	Code IRC2021/TPI2014		Matrix-SH						
								Weight: 105 lb	FT = 20%F, 11%E

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

**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), 17=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=-1088/0, 4-5=-1196/0, 5-6=-818/0, 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=-788/0, 16-17=-784/0, 15-16=-255/58, 14-15=-255/58  
WEBS 7-17=-922/0, 9-14=-256/0, 2-23=-596/0, 1-23=0/587, 5-19=-491/0, 6-19=0/445, 6-18=-744/0, 7-18=0/755, 7-16=0/398, 8-16=-359/0, 8-14=-155/267

- NOTES-** (4-7)
- Unbalanced floor live loads have been considered for this design.
  - 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.
  - CAUTION, Do not erect truss backwards.
  - 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.
  - 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.
  - 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.
  - SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAINING/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

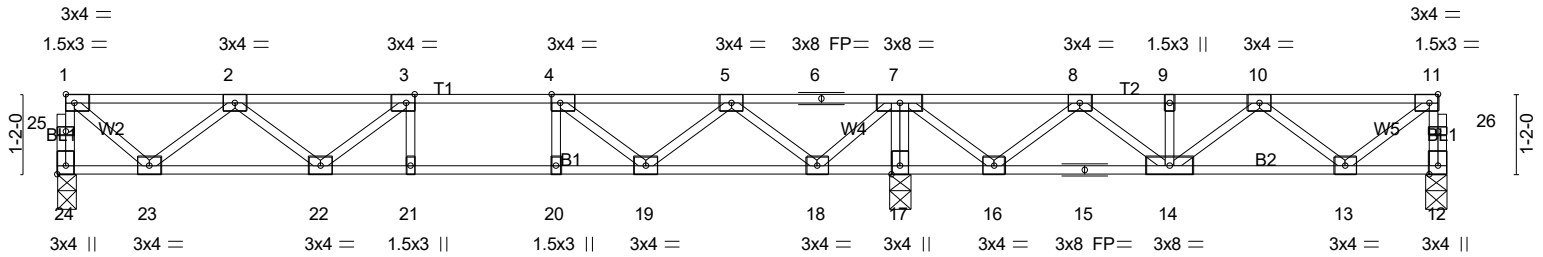


10/14/2024

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Job 24-8632-F02	Truss F10	Truss Type Floor	Qty 1	Ply 1	LOT 0.0016 HONEYCUTT HILLS   393 SHELBY MEADOW LANE ANGIER, NC	# 53383
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5-2-10	6-2-10	7-2-10	12-3-10	20-3-6
5-2-10	1-0-0	1-0-0	5-1-0	7-11-12

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

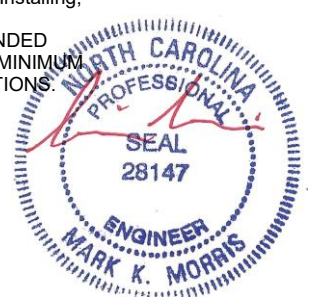
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

**REACTIONS.** (lb/size) 24=462/0-3-6 (min. 0-1-8), 12=234/0-3-8 (min. 0-1-8), 17=1055/0-3-8 (min. 0-1-8)  
Max Grav 24=473(LC 3), 12=295(LC 4), 17=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=-857/0, 16-17=-852/0, 15-16=-292/385, 14-15=-292/385, 13-14=-59/505  
WEBS 7-17=-1035/0, 2-23=-599/0, 1-23=0/590, 4-19=-511/0, 5-19=0/458, 5-18=-742/0, 7-18=0/754, 7-16=0/568, 8-16=-523/0, 10-13=-299/51, 11-13=-25/331

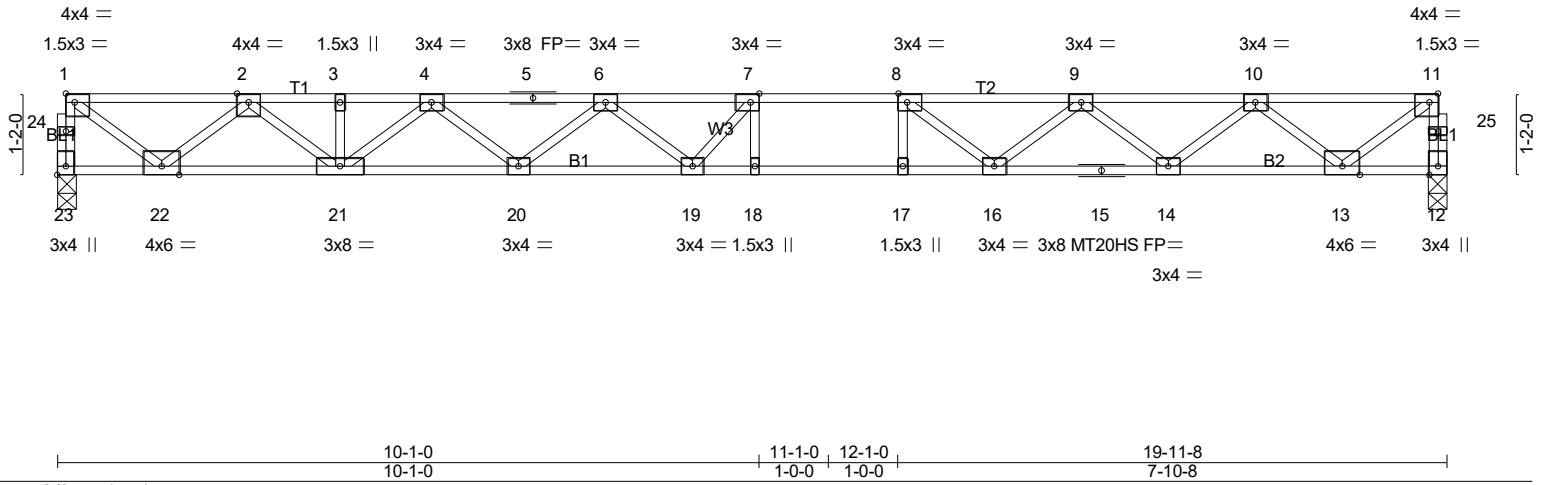
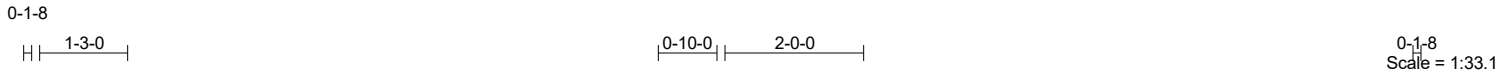
- NOTES-** (4-7)
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - 3) 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 RESTRAINING/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



10/14/2024

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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 0.59	Vert(LL)	-0.37	18	>648	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.76	Vert(CT)	-0.50	18-19	>471	MT20HS	187/143
BCLL 0.0	Rep Stress Incr	YES	WB 0.59	Horz(CT)	0.07	12	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 SS(flat) \*Except\*  
B2: 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) 23=862/0-3-8 (min. 0-1-8), 12=862/0-3-0 (min. 0-1-8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 23-24=-857/0, 1-24=-856/0, 12-25=-857/0, 11-25=-855/0, 1-2=-1022/0, 2-3=-2609/0, 3-4=-2609/0, 4-5=-3586/0, 5-6=-3586/0, 6-7=-4028/0, 7-8=-4009/0, 8-9=-3550/0, 9-10=-2566/0, 10-11=-1025/0  
BOT CHORD 21-22=0/1928, 20-21=0/3215, 19-20=0/3940, 18-19=0/4009, 17-18=0/4009, 16-17=0/4009, 15-16=0/3163, 14-15=0/3163, 13-14=0/1935  
WEBS 7-18=-286/122, 1-22=0/1240, 2-22=-1179/0, 2-21=0/870, 4-21=-774/0, 4-20=0/483, 6-20=-460/0, 6-19=-61/322, 7-19=-345/309, 8-16=-750/0, 9-16=0/557, 9-14=-777/0, 10-14=0/821, 10-13=-1185/0, 11-13=0/1243

- NOTES-** (4-7)
- Unbalanced floor live loads have been considered for this design.
  - All plates are MT20 plates unless otherwise indicated.
  - 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.
  - 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.
  - 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.
  - 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.
  - SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAINING/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



10/14/2024

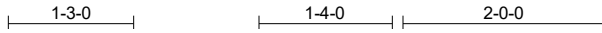
**Warning !—Verify design parameters and read notes before use.** This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building 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.

Job 24-8632-F02	Truss F12	Truss Type Floor	Qty 2	Ply 1	LOT 0.0016 HONEYCUTT HILLS   393 SHELBY MEADOW LANE ANGIER, NC
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Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Oct 15 17:36:35 2024 Page 1  
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# 53383

Job Reference (optional)



0-1-8

Scale = 1:23.1

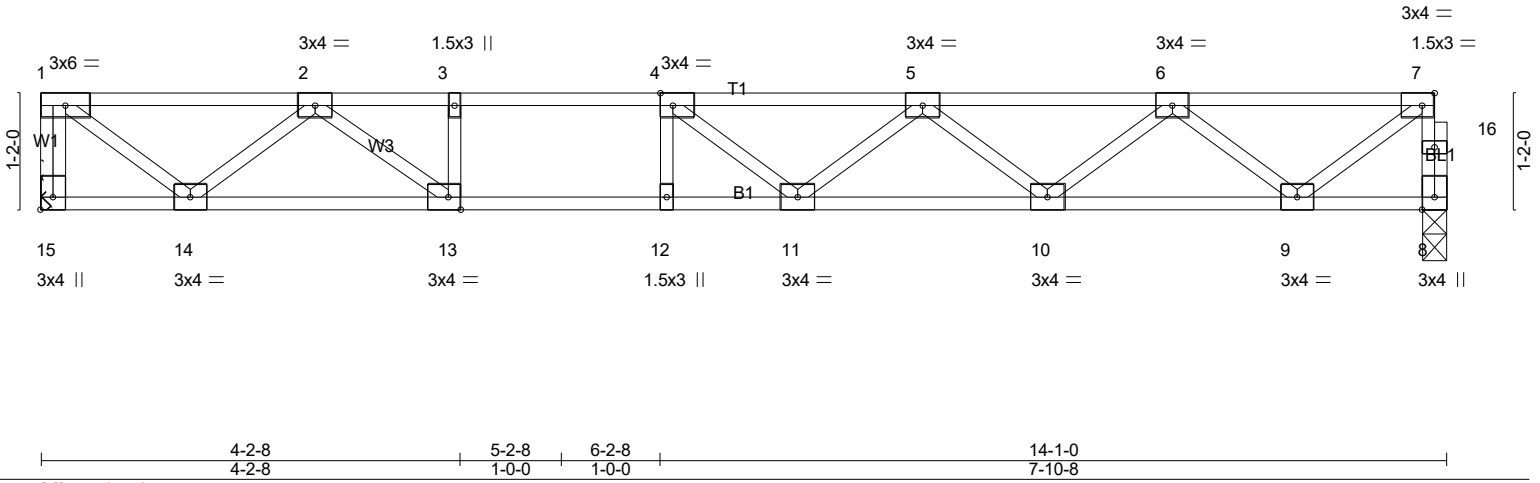


Plate Offsets (X,Y)-- [4:0-1-8,Edge], [7:0-1-8,Edge], [13:0-1-8,Edge], [15:Edge,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	1-7-3	TC 0.63	Vert(LL)	-0.18	11-12	>918	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.88	Vert(CT)	-0.24	11-12	>679		
BCLL 0.0	Lumber DOL 1.00	WB 0.39	Horz(CT)	0.03	8	n/a		
BCDL 5.0	Rep Stress Incr YES	Matrix-SH						
	Code IRC2021/TPI2014						Weight: 70 lb	FT = 20%F, 11%E

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

REACTIONS. (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)
- Unbalanced floor live loads have been considered for this design.
  - Refer to girder(s) for truss to truss connections.
  - 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.
  - CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

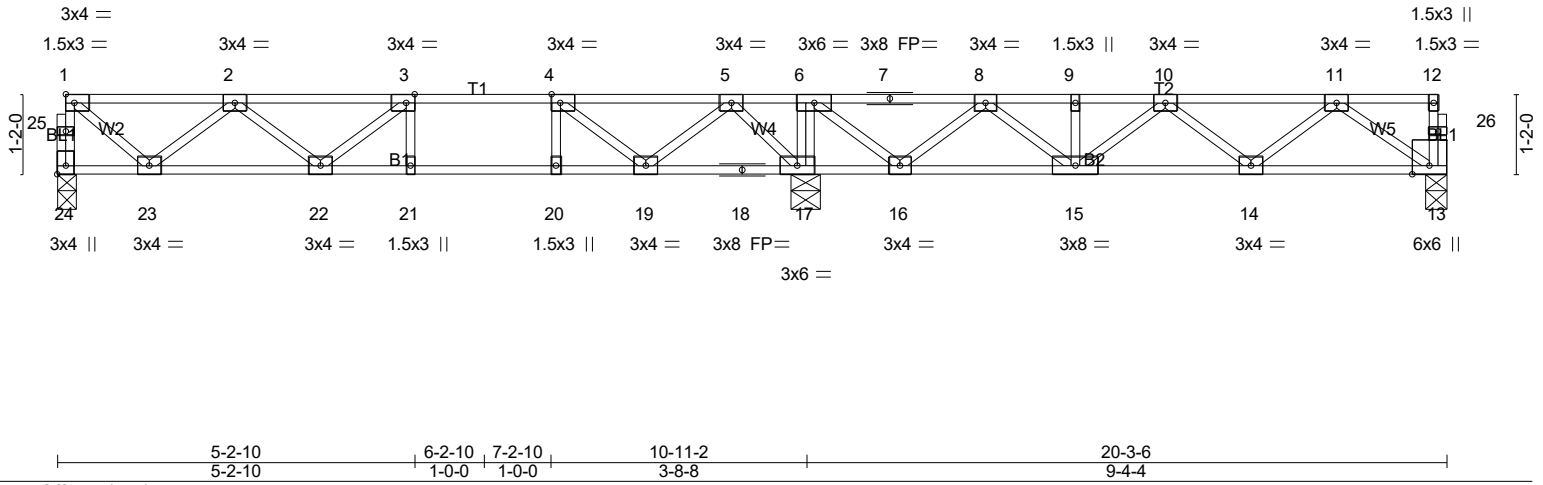
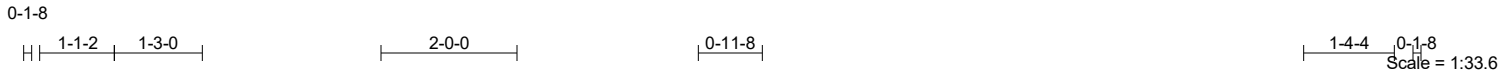


10/14/2024

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Job 24-8632-F02	Truss F13	Truss Type Floor	Qty 1	Ply 1	LOT 0.0016 HONEYCUTT HILLS   393 SHELBY MEADOW LANE ANGIER, NC	# 53383
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Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Oct 15 17:36:37 2024 Page 1  
ID:C6coucD2lwHaZ3sGy1mE3yowb3-F?27e5PH2Ej3sm0NFdnqp5uoA33eNeqaOoU?MJyT6WO



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

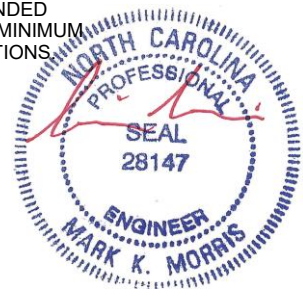
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 17-19,16-17.

**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)
- Unbalanced floor live loads have been considered for this design.
  - 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.
  - CAUTION. Do not erect truss backwards.
  - 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.
  - 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.
  - 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.
  - 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



10/14/2024

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