

Mark Morris, P.E.

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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 #: 58877

JOB: 25-3336-R01

JOB NAME: LOT 0.0048 HONEYCUTT HILLS

Wind Code: ASCE7-16

Wind Speed: Vult= 120mph

Exposure Category: B

Mean Roof Height (feet): 23

These truss designs comply with IRC 2015 as well as IRC 2018.

67 Truss Design(s)

Trusses:

GR01, GR02, GR03, GR04, GR05, GR06, GR07, J01, J02, J03, J04, J05, J06, J07, J07A, J08, J09, J11, J12, J13, J14, J15, J16, J17, J17A, J19, J20, J21, J22, J23, J24, J25, J26, J27, J28, P01, R01, R02, R03, R04, R05, R06, R07, R08, R09, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R24A, R24B, R25, R26, R27, VT01, VT02



4/25/2025

Mark Morris

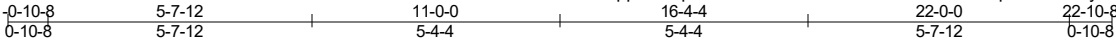
My license renewal date for the state of North Carolina is 12/31/2025

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

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	GR01	Common	4	1	
Job Reference (optional)					# 58877

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:17:56 2025 Page 1
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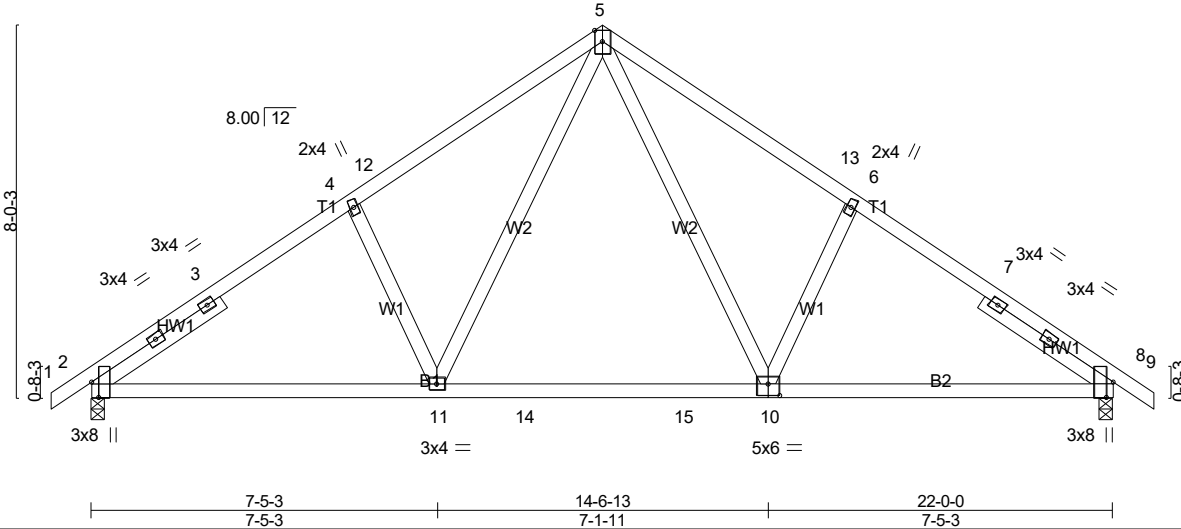


Plate Offsets (X,Y)-- [2:0-4-0,Edge], [8:0-4-0,Edge], [10:0-3-0,0-3-0]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	in (loc)	l/defl	L/d	GRIP
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.65	Vert(LL)	-0.18 10-11	>999	240
TCDL	10.0	Rep Stress Incr	YES	WB	0.20	Vert(CT)	-0.24 10-11	>999	180
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-SH		Horz(CT)	0.03 8	n/a	n/a
BCDL	10.0								
								Weight: 123 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 3-4-2, Right 2x4 SP No.3 3-4-2

BRACING-
TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 5-4-1 oc purlins.
Rigid ceiling directly applied or 10-0-0 oc bracing.

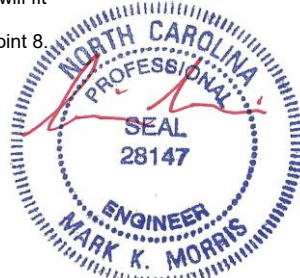
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=933/0-3-8 (min. 0-1-8), 8=932/0-3-8 (min. 0-1-8)
Max Horz 2=-142(LC 10)
Max Uplift 2=-51(LC 12), 8=-51(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1214/71, 3-4=-1084/101, 4-12=-1111/122, 5-12=-1031/149, 5-13=-1031/149,
6-13=-1111/122, 6-7=-1084/101, 7-8=-1214/71
BOT CHORD 2-11=-78/1027, 11-14=0/695, 14-15=0/695, 10-15=0/695, 8-10=-14/935
WEBS 5-10=-78/530, 6-10=-280/155, 5-11=-78/530, 4-11=-280/155

- NOTES-** (8)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-10-8 to 3-11-2, Interior(1) 3-11-2 to 6-2-6, Exterior(2R) 6-2-6 to 15-9-10, Interior(1) 15-9-10 to 18-0-14, Exterior(2E) 18-0-14 to 22-10-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 51 lb uplift at joint 2 and 51 lb uplift at joint 8

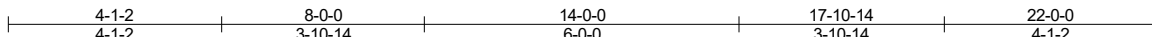
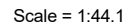
LOAD CASE(S) Standard



4/25/2025

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LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		
WEDGE			
Left: 2x4 SP No.3 , Right: 2x4 SP No.3			

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

TOP CHORD 2-14=-2104/556, 3-14=-1996/555, 3-15=-1676/517, 4-15=-1550/535, 4-16=-1354/476, 16-17=-1354/476, 5-17=-1354/476, 5-18=-1551/534, 6-18=-1677/516, 6-19=-1996/557, 7-19=-2104/558

BOT CHORD 2-20=-466/1598, 13-20=-466/1598, 13-21=-466/1598, 12-21=-466/1598, 12-22=-433/1353, 22-23=-433/1353, 11-23=-433/1353, 10-11=-398/1598, 9-10=-398/1598, 9-24=-398/1598, 7-24=-398/1598

WEBS 3-12=-321/88, 4-12=-2/505, 5-11=0/507, 6-11=-321/91

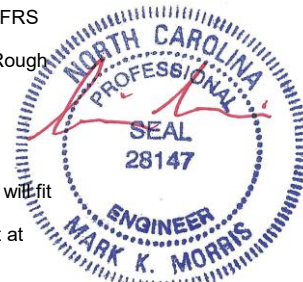
NOTES- (12)

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 7) Provide adequate drainage to prevent water ponding.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 360 lb uplift at joint 2 and 360 lb uplift at joint 7.
- 11) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.

Continued on page 2
LOAD CASE(S) Standard

4/25/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	GR02	Hip Girder	1	2	Job Reference (optional) # 58877

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LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-4=-60, 4-5=-60, 5-8=-60, 2-7=-20
- Concentrated Loads (lb)
- Vert: 4=-83(F) 5=-83(F) 10=-97(F) 3=-48(F) 13=-58(F) 12=-29(F) 11=-29(F) 6=-48(F) 9=-58(F) 14=-63(F) 15=-15(F) 16=-83(F) 17=-83(F) 18=-15(F) 19=-63(F) 20=-43(F) 21=-97(F) 22=-29(F) 23=-29(F) 24=-43(F)



4/25/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	GR03	Jack-Open	2	1	

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58877

Job Reference (optional)

-0-10-8
0-10-8
2-0-0
2-0-0

Scale = 1:13.2

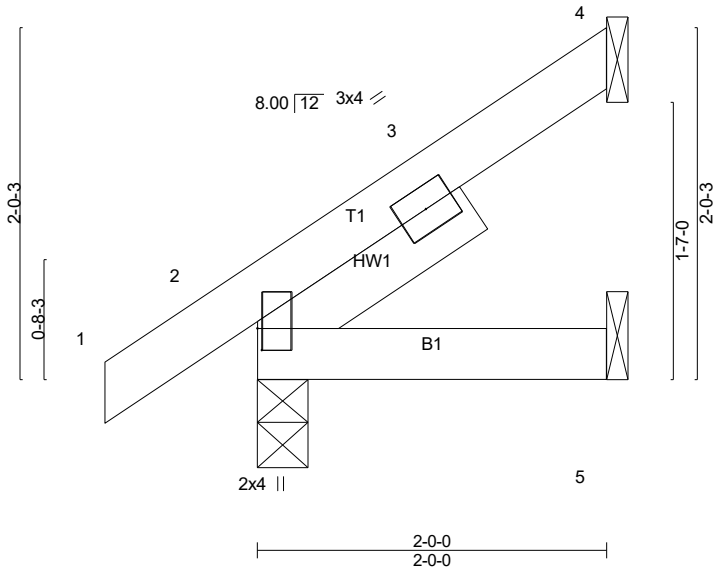


Plate Offsets (X,Y)-- [2:0-1-8,0-0-5]

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.08	Vert(LL)	-0.00	2	>999	240	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.04	Vert(CT)	-0.00	2-5	>999	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P							
BCDL 10.0	Code IRC2021/TPI2014								

Weight: 11 lb FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
SLIDER Left 2x4 SP No.3 1-5-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 4=48/Mechanical, 2=144/0-3-8 (min. 0-1-8), 5=20/Mechanical
Max Horz 2=53(LC 12)
Max Uplift 4=-35(LC 12), 2=-3(LC 12)
Max Grav 4=52(LC 20), 2=147(LC 18), 5=40(LC 5)

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

NOTES- (8)
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 4 and 3 lb uplift at joint 2.

LOAD CASE(S) Standard

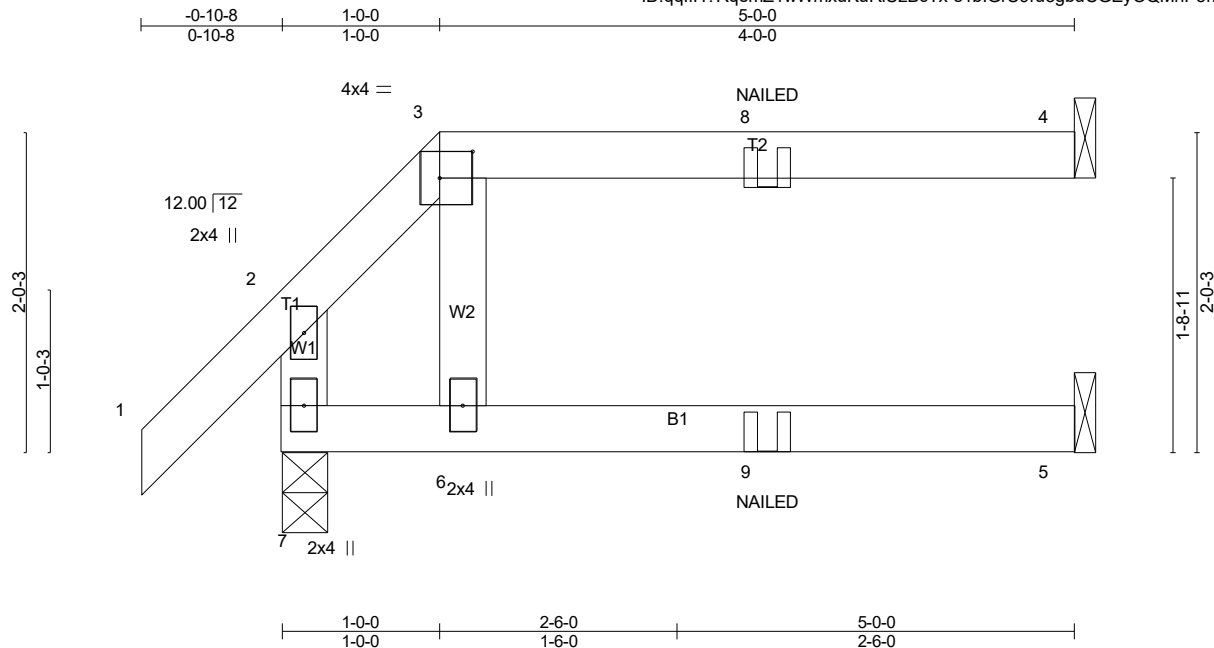


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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	GR04	Jack-Open Girder	2	1	
Job Reference (optional)					# 58877

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Scale = 1:14.5

Plate Offsets (X,Y)-- [3:0-2-8,0-2-0]									
LOADING (psf)		SPACING		CSI		DEFL.		PLATES	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.36	in (loc)	l/defl	MT20	GRIP
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.28	Vert(LL)	-0.02		244/190
TCDL	10.0	Rep Stress Incr	NO	WB	0.02	Vert(CT)	-0.05		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-P		Horz(CT)	0.06		
BCDL	10.0							Weight: 21 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

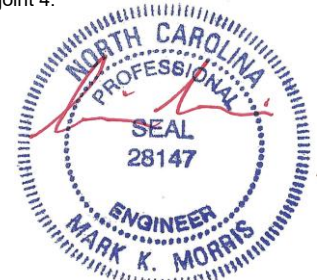
REACTIONS. (lb/size) 7=259/0-3-8 (min. 0-1-8), 4=123/Mechanical, 5=62/Mechanical
Max Horz 7=50(LC 10)
Max Uplift 7=-18(LC 10), 4=-40(LC 7)
Max Grav 7=259(LC 1), 4=123(LC 26), 5=87(LC 5)

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

- NOTES-** (12)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
 - TCCL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 7 and 40 lb uplift at joint 4.
 - "NAILED" indicates 3-10d (0.148"x3.25") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 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

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-60, 3-4=-60, 5-7=-20



4/25/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	GR05	Jack-Open	2	1	
Job Reference (optional)					# 58877

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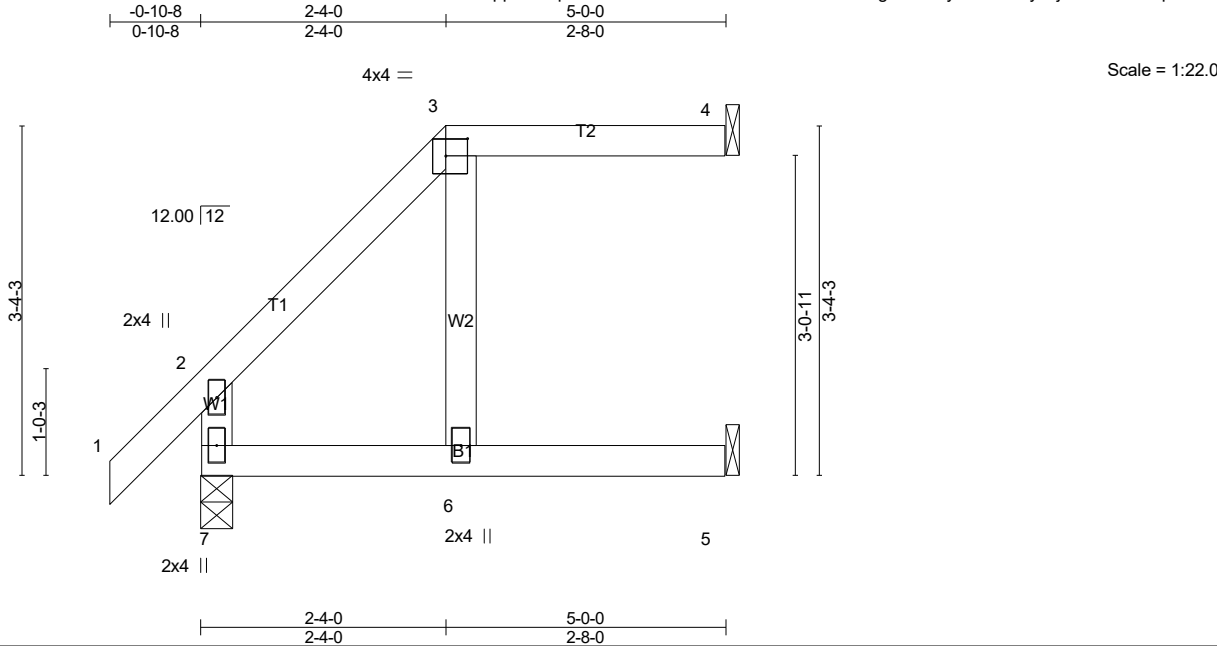


Plate Offsets (X,Y)-- [3:0-2-8,0-2-0]													
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	0.05	6	>999	240	MT20	244/190	
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.06	6	>914	180			
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.09	4	n/a	n/a			
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-P							Weight: 24 lb	FT = 20%	
BCDL	10.0												

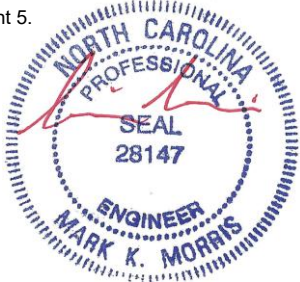
LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SP No.3		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 7=259/0-3-8 (min. 0-1-8), 4=108/Mechanical, 5=78/Mechanical
Max Horz 7=87(LC 12)
Max Uplift 4=-27(LC 9), 5=-7(LC 12)
Max Grav 7=259(LC 1), 4=108(LC 1), 5=86(LC 5)

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

- NOTES-** (10)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 4 and 7 lb uplift at joint 5.

LOAD CASE(S) Standard

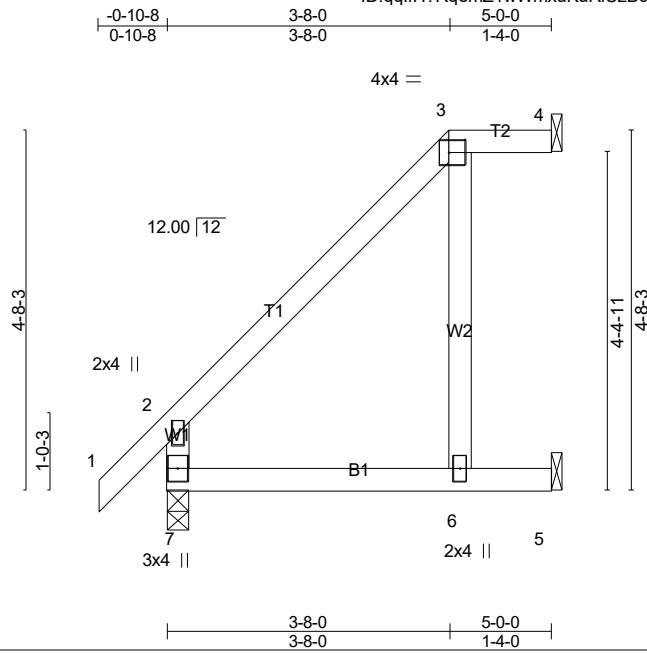


4/25/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	GR06	Jack-Open	2	1	
Job Reference (optional)					# 58877

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:17:58 2025 Page 1
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Scale = 1:29.9

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.31	Vert(LL)	0.06	6-7	>891	240	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.31	Vert(CT)	-0.06	6-7	>898	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.05	Horz(CT)	-0.09	4	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P							
BCDL 10.0	Code IRC2021/TPI2014							Weight: 26 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

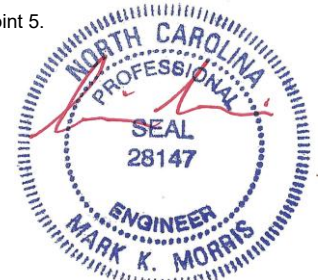
BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 7=259/0-3-8 (min. 0-1-8), 4=68/Mechanical, 5=117/Mechanical
Max Horz 7=125(LC 12)
Max Uplift 4=-8(LC 9), 5=-58(LC 12)
Max Grav 7=259(LC 1), 4=68(LC 1), 5=120(LC 20)

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

- NOTES-** (10)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 4 and 58 lb uplift at joint 5.

LOAD CASE(S) Standard

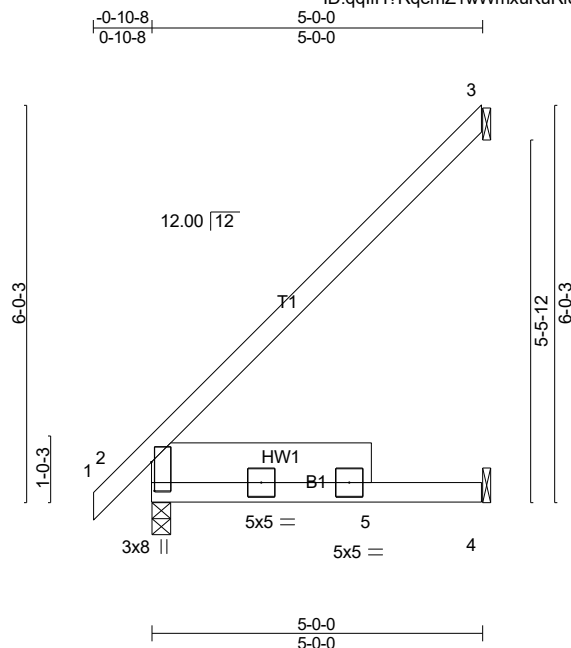


4/25/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	GR07	Jack-Open	4	1	Job Reference (optional) # 58877

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:17:59 2025 Page 1
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Scale = 1:34.9

Plate Offsets (X,Y)-- [2:0-5-4,0-0-9]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.57	Vert(LL) -0.01	2-4	>999	240	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.27	Vert(CT) -0.02	2-4	>999	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT) -0.00	3	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IRC2021/TPI2014						Weight: 30 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
SLIDER Left 2x8 SP No.2 3-4-0

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

REACTIONS. (lb/size) 3=143/Mechanical, 2=255/0-3-8 (min. 0-1-8), 4=49/Mechanical
Max Horz 2=162(LC 12)
Max Uplift 3=132(LC 12)
Max Grav 3=162(LC 20), 2=255(LC 1), 4=99(LC 5)

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

- NOTES-** (8)
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 132 lb uplift at joint 3.

LOAD CASE(S) Standard



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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	J01	Jack-Open Girder	1	1	
					Job Reference (optional) # 58877

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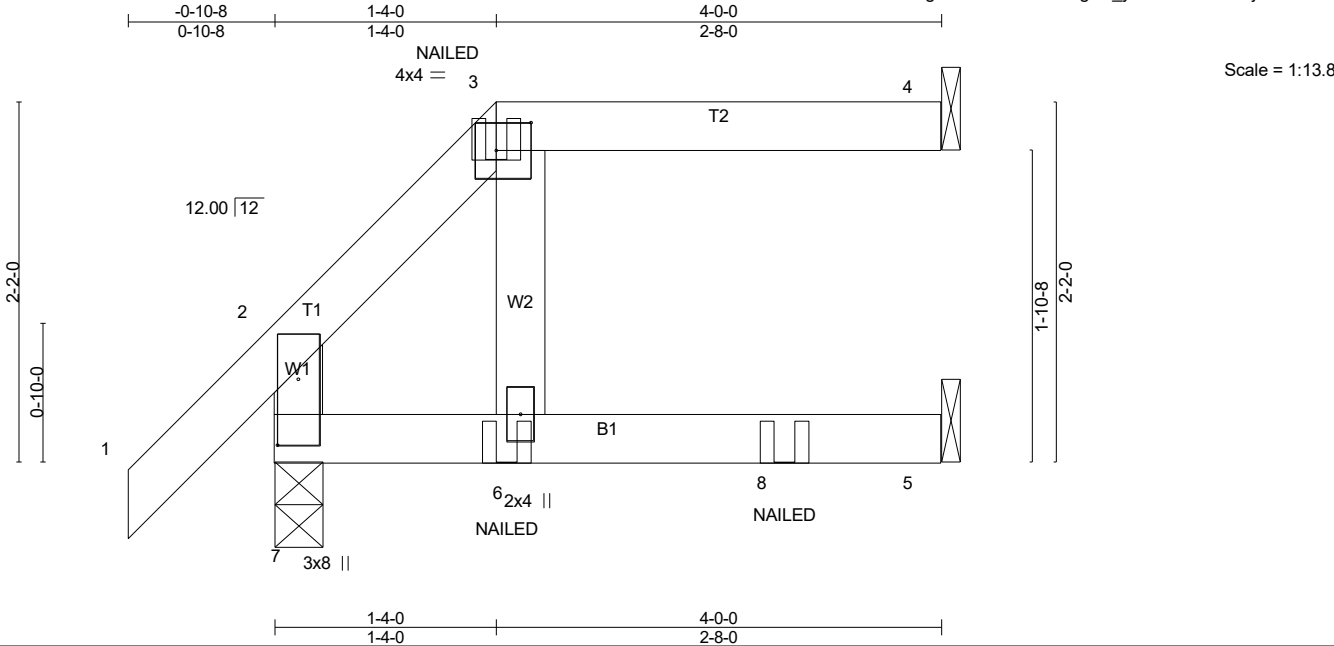


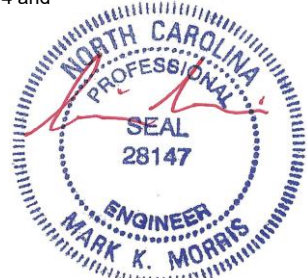
Plate Offsets (X,Y)-- [3:0-2-8,0-2-0], [7:0-4-12,0-1-8]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	-0.02 5-6 >999 240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.03 5-6 >999 180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.01	Horz(CT)	0.04 4 n/a n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-MP				Weight: 18 lb	FT = 20%
BCDL	10.0								

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SP No.3		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 7=245/0-3-8 (min. 0-1-8), 4=100/Mechanical, 5=104/Mechanical
Max Horz 7=58(LC 10)
Max Uplift 7=-33(LC 10), 4=-33(LC 7), 5=-19(LC 7)
Max Grav 7=245(LC 1), 4=101(LC 26), 5=106(LC 26)

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

- NOTES-** (12-16)
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 5) Provide adequate drainage to prevent water ponding.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - 8) Refer to girder(s) for truss to truss connections.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 7, 33 lb uplift at joint 4 and 19 lb uplift at joint 5.
 - 10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).



Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	J01	Jack-Open Girder	1	1	Job Reference (optional) # 58877

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:17:59 2025 Page 2
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- 12) Trusses designed with 2018 IRC also comply with 2015 IRC.
- 13) 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.
- 14) 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.
- 15) 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.
- 16) 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

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-2=-60, 2-3=-60, 3-4=-60, 5-7=-20
 - Concentrated Loads (lb)
 - Vert: 3=-2(B) 6=-8(B) 8=-74(B)



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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	J02	Jack-Open	1	1	
Job Reference (optional)					# 58877

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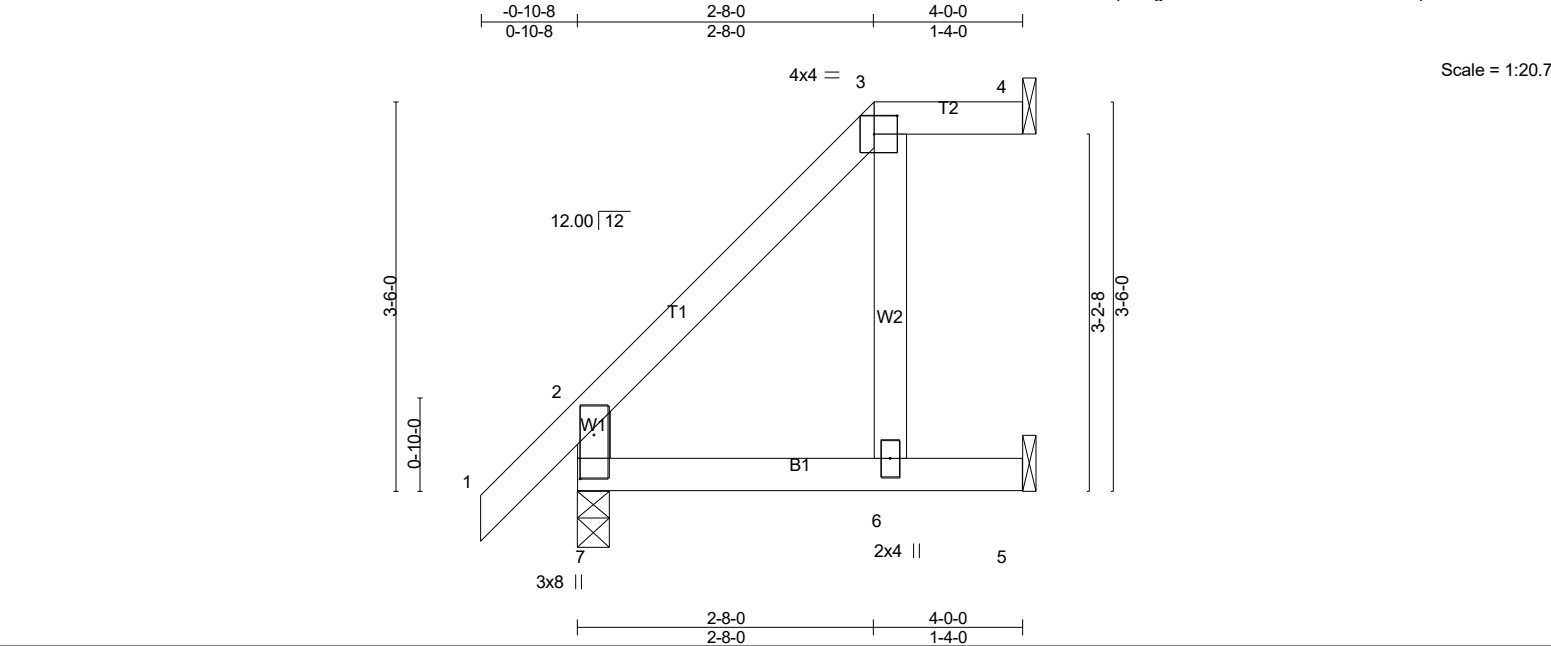


Plate Offsets (X,Y)-- [3:0-2-8,0-2-0], [7:0-4-12,0-1-8]												
LOADING (psf)		SPACING- 2-0-0		CSI.	DEFL. in (loc) l/defl L/d				PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	0.03	6-7	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.03	6-7	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	-0.04	4	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-MP							Weight: 21 lb	FT = 20%
BCDL	10.0											

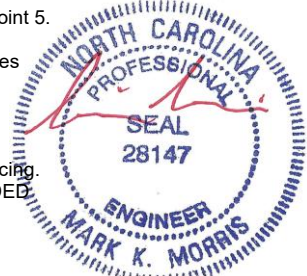
LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SP No.3		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 7=221/0-3-8 (min. 0-1-8), 4=64/Mechanical, 5=79/Mechanical
Max Horz 7=99(LC 12)
Max Uplift 4=-15(LC 9), 5=-35(LC 12)
Max Grav 7=221(LC 1), 4=64(LC 1), 5=81(LC 20)

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

- NOTES-** (10-14)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCCL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 4 and 35 lb uplift at joint 5.
 - Trusses designed with 2018 IRC also comply with 2015 IRC.
 - 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.

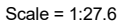
LOAD CASE(S) Standard



4/25/2025

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Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:18:00 2025 Page 1
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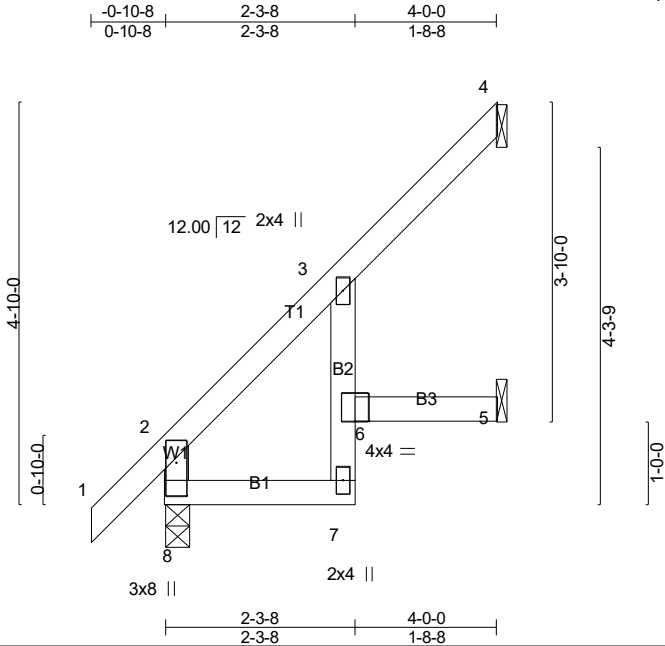


4/25/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	J04	Jack-Open	5	1	
Job Reference (optional)					# 58877

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:18:00 2025 Page 1
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Scale = 1:27.6

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.16	Vert(LL)	0.02	6	>999	240	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.22	Vert(CT)	-0.02	6	>999	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	-0.01	5	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-AS							
BCDL 10.0	Code IRC2021/TPI2014								
								Weight: 21 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
B2: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING-
TOP CHORD
BOT CHORD
Structural wood sheathing directly applied, except end verticals.
Rigid ceiling directly applied.

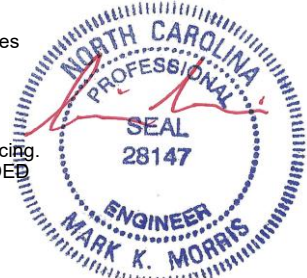
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 8=221/0-3-8 (min. 0-1-8), 4=81/Mechanical, 5=62/Mechanical
Max Horz8=136(LC 12)
Max Uplift4=63(LC 12), 5=32(LC 12)
Max Grav8=221(LC 1), 4=91(LC 20), 5=71(LC 20)

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

- NOTES-** (9-13)
- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCCL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 4 and 32 lb uplift at joint 5.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 9) Trusses designed with 2018 IRC also comply with 2015 IRC.
 - 10) 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.
 - 11) 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.
 - 12) 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.
 - 13) 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.

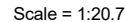
LOAD CASE(S) Standard



4/25/2025

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Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:18:01 2025 Page 1
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Weight: 23 lb FT = 20%

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

- 3) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 5 and 26 lb uplift at joint 6.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Trusses designed with 2018 IRC also comply with 2015 IRC.
- 12) 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.
- 13) 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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- 15) 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.

4/25/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	J05	Jack-Open	1	1	Job Reference (optional) # 58877

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:18:01 2025 Page 2
ID:GH0hT5MOv4FkLKIPfX2c9QzXMNI-HcGRusW18pRFSLwrv5x7_P1eUKzcOGbc6WCit8zMoBq

LOAD CASE(S) Standard



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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	J06	Jack-Open Girder	1	1	
					Job Reference (optional) # 58877

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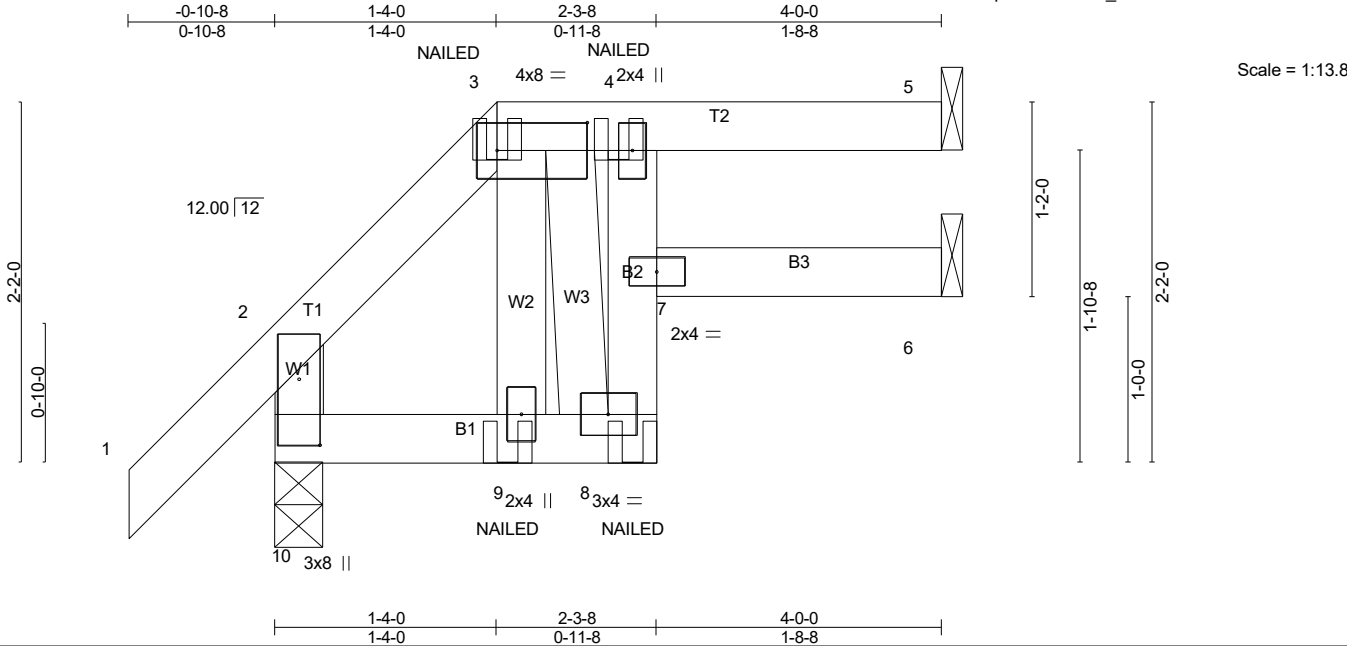


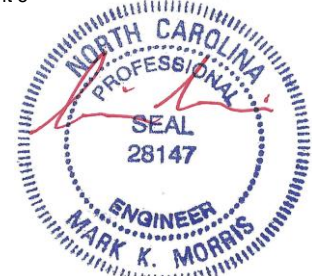
Plate Offsets (X,Y)-- [3:0-6-8,0-2-0], [10:0-4-12,0-1-8]													
LOADING (psf)		SPACING- 2-0-0		CSI.	DEFL. in (loc) l/defl L/d				PLATES	GRIP			
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	-0.01	8	>999	240	MT20	244/190	
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.02	7	>999	180			
TCDL	10.0	Rep Stress Incr	NO	WB	0.01	Horz(CT)	0.02	5	n/a	n/a			
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-MSH									
BCDL	10.0											Weight: 23 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2 *Except*	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
	B2: 2x4 SP No.3		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
WEBS	2x4 SP No.3		

REACTIONS. (lb/size) 10=232/0-3-8 (min. 0-1-8), 5=98/Mechanical, 6=52/Mechanical
Max Horz 10=58(LC 10)
Max Uplift 10=-38(LC 10), 5=-34(LC 7), 6=-5(LC 7)
Max Grav 10=232(LC 1), 5=101(LC 26), 6=60(LC 5)

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

- NOTES-** (12-16)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 10, 34 lb uplift at joint 5 and 5 lb uplift at joint 6.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).



Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	J06	Jack-Open Girder	1	1	Job Reference (optional) # 58877

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ID:GHOHT5MOv4FkLKIPfX2c9QzXMNI-HcGRusW18pRFSLwrv5x7_P1dLKzMOGbc6WCit8zMoBq

- 12) Trusses designed with 2018 IRC also comply with 2015 IRC.
- 13) 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.
- 14) 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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- 16) 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

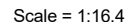
- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-2=-60, 2-3=-60, 3-5=-60, 8-10=-20, 6-7=-20
 - Concentrated Loads (lb)
 - Vert: 3=-2(F) 4=-2(F) 9=-8(F) 8=-8(F)



4/25/2025

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Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:18:02 2025 Page 1
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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	J07	Jack-Open Girder	1	1	Job Reference (optional) # 58877

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:18:02 2025 Page 2
ID: GH0hT5MOv4FkLKIPfX2c9QzXMNI-lpq5CXgv7Z64VV1ToSMWcanTkFm7jhmLAXFPazMoBp

- 12) Trusses designed with 2018 IRC also comply with 2015 IRC.
- 13) 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.
- 14) 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

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-2=-60, 2-3=-60, 3-4=-60, 5-7=-20
 - Concentrated Loads (lb)
 - Vert: 3=-21(B) 6=-19(B) 8=-21(B) 9=-19(B)



4/25/2025

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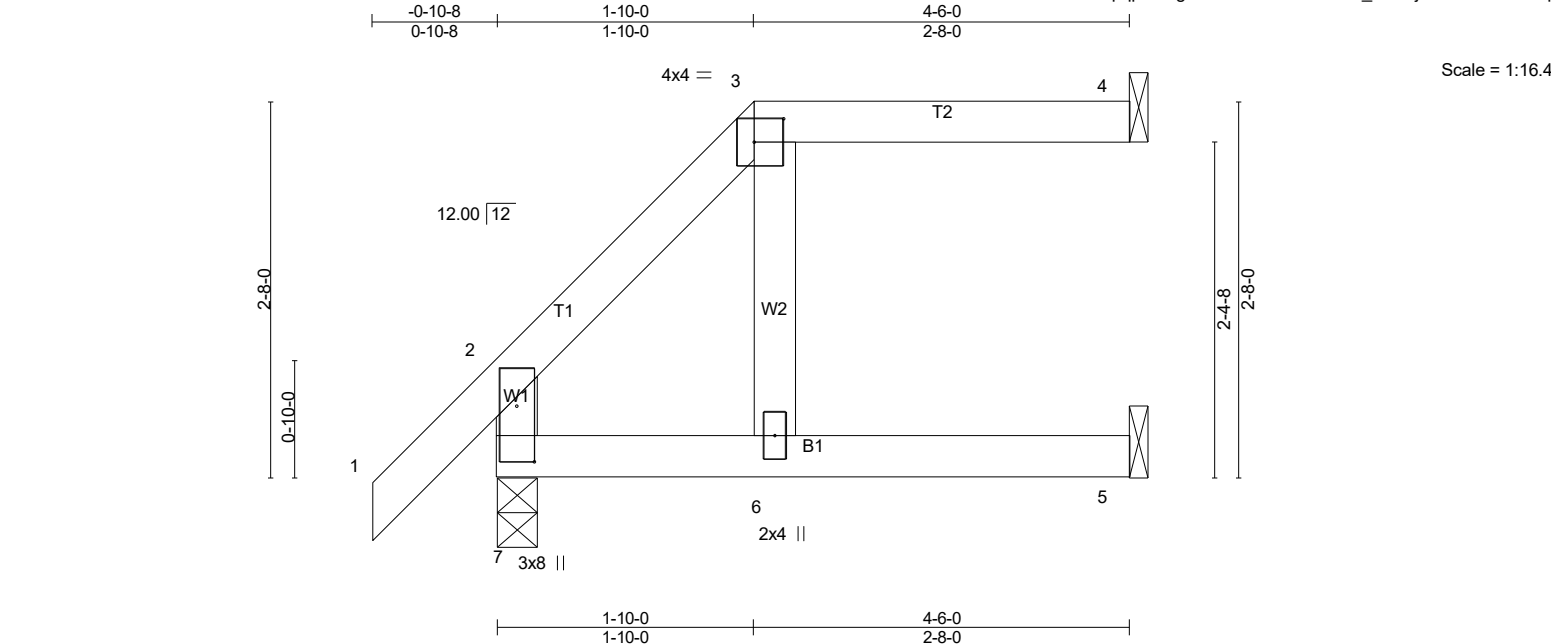


Plate Offsets (X,Y)-- [3:0-2-8,0-2-0], [7:0-4-12,0-1-8]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.22	in (loc)	l/defl	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.26	Vert(LL)	0.03 6 >999		
TCDL	10.0	Rep Stress Incr	NO	WB	0.03	Vert(CT)	-0.04 6 >999		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-MP		Horz(CT)	0.05 4 n/a n/a		
BCDL	10.0							Weight: 21 lb	FT = 20%

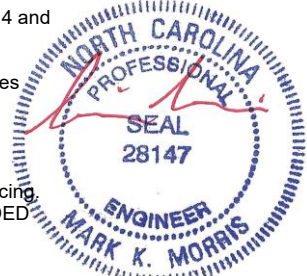
LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-6-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SP No.3		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 7=240/0-3-8 (min. 0-1-8), 4=100/Mechanical, 5=65/Mechanical
Max Horz 7=73(LC 12)
Max Uplift 7=-12(LC 12), 4=-29(LC 9), 5=-1(LC 12)
Max Grav 7=240(LC 1), 4=100(LC 1), 5=77(LC 5)

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

- NOTES-** (10-14)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCCL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 7, 29 lb uplift at joint 4 and 1 lb uplift at joint 5.
 - Trusses designed with 2018 IRC also comply with 2015 IRC.
 - 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.

Continued on page 2



4/25/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	J07A	Jack-Open	1	1	Job Reference (optional) # 58877

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LOAD CASE(S) Standard

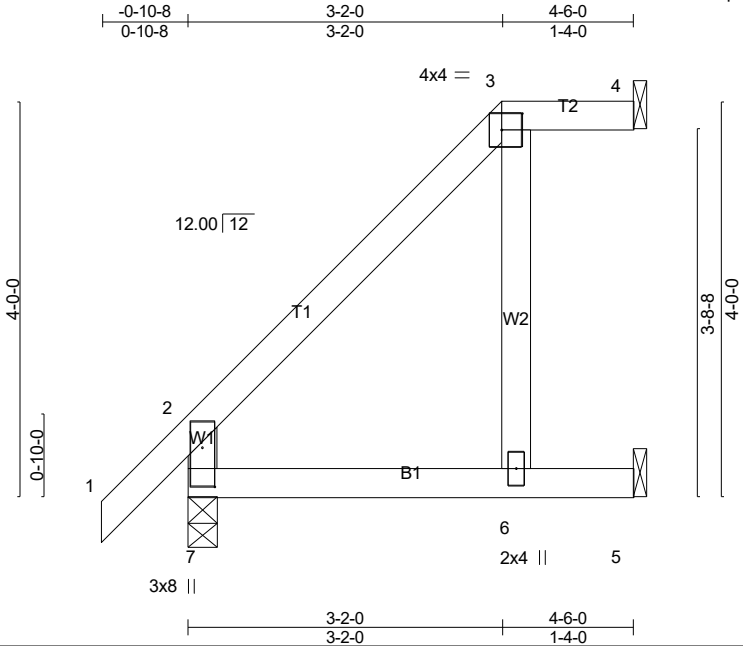


4/25/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	J08	Jack-Open	2	1	
Job Reference (optional)					# 58877

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Scale = 1:23.3

Plate Offsets (X,Y)-- [3:0-2-8,0-2-0], [7:0-4-12,0-1-8]														
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES		GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	0.04	6-7	>999	240	MT20	244/190		
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.04	6-7	>999	180				
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	-0.05	4	n/a	n/a				
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-AS							Weight: 23 lb		FT = 20%	
BCDL	10.0													

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD
BOT CHORD

Structural wood sheathing directly applied, except end verticals.
Rigid ceiling directly applied.

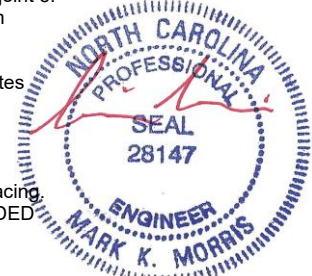
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 7=240/0-3-8 (min. 0-1-8), 4=70/Mechanical, 5=94/Mechanical
Max Horz 7=114(LC 12)
Max Uplift 4=-14(LC 9), 5=-46(LC 12)
Max Grav 7=240(LC 1), 4=70(LC 1), 5=96(LC 24)

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

- NOTES-** (11-15)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCCL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 4 and 46 lb uplift at joint 5.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Trusses designed with 2018 IRC also comply with 2015 IRC.
 - 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.

Continued on page 2



4/25/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	J08	Jack-Open	2	1	Job Reference (optional) # 58877

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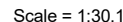
LOAD CASE(S) Standard



4/25/2025

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Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:18:03 2025 Page 1
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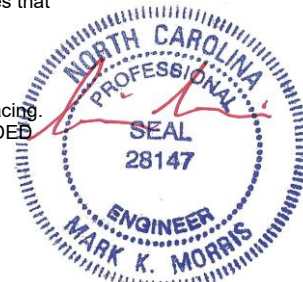


MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

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

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 99 lb uplift at joint 3 and 8 lb uplift at joint 4.
- 8) Trusses designed with 2018 IRC also comply with 2015 IRC.
- 9) 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.
- 10) 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.
- 11) 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.
- 12) 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

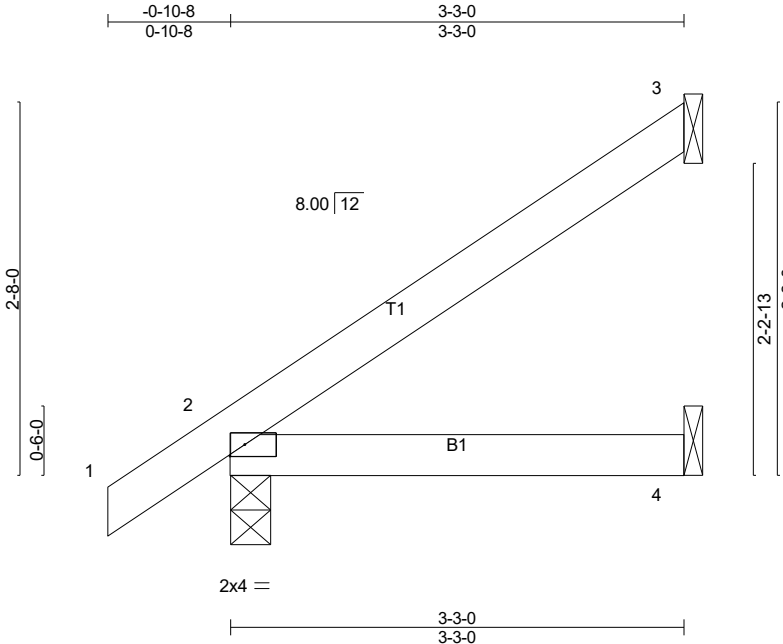


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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	J11	JACK-OPEN	2	1	
					Job Reference (optional) # 58877

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LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.14	Vert(LL)	0.01	4-7	>999	240	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.10	Vert(CT)	-0.01	4-7	>999	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP							
BCDL 10.0	Code IRC2021/TPI2014							Weight: 12 lb	FT = 20%

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

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

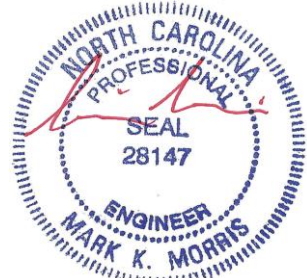
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 3=81/Mechanical, 2=187/0-3-8 (min. 0-1-8), 4=39/Mechanical
Max Horz 2=80(LC 12)
Max Uplift 3=44(LC 12), 2=8(LC 12)
Max Grav 3=85(LC 20), 2=187(LC 1), 4=59(LC 5)

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

- NOTES-** (8)
- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 3 and 8 lb uplift at joint 2.
 - 8) Trusses designed with 2018 IRC also comply with 2015 IRC.

LOAD CASE(S) Standard



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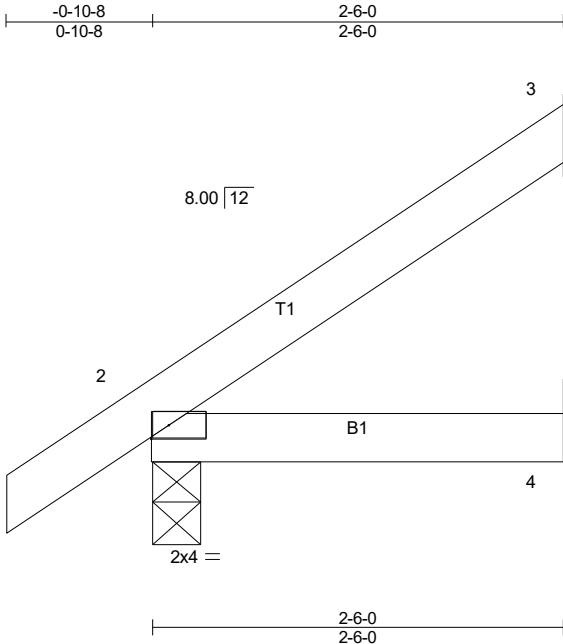
Warning !—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – 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	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	J12	Jack-Open	2	1	

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58877

Job Reference (optional)



Scale = 1:14.0

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.09	Vert(LL)	-0.00	4-7	>999	240	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.05	Vert(CT)	-0.00	4-7	>999	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP							
BCDL 10.0	Code IRC2021/TPI2014								
								Weight: 10 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-6-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

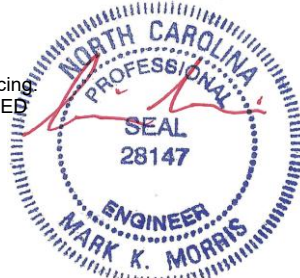
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 3=60/Mechanical, 2=159/0-3-8 (min. 0-1-8), 4=28/Mechanical
Max Horz 2=65(LC 12)
Max Uplift 3=-33(LC 12), 2=-10(LC 12)
Max Grav 3=63(LC 20), 2=159(LC 1), 4=44(LC 5)

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

- NOTES-** (8-12)
- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TC DL=5.0psf; BC DL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 3 and 10 lb uplift at joint 2.
 - 8) Trusses designed with 2018 IRC also comply with 2015 IRC.
 - 9) 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.
 - 10) 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.
 - 11) 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.
 - 12) 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

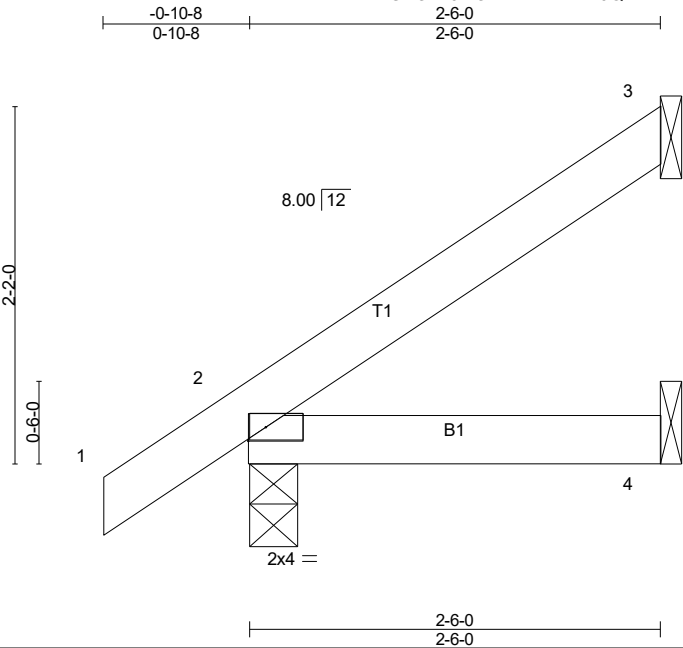


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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	J13	Jack-Open	1	1	Job Reference (optional) # 58877

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LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.09	Vert(LL)	-0.00	4-7	>999	240	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.05	Vert(CT)	-0.00	4-7	>999	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP							
BCDL 10.0	Code IRC2021/TPI2014							Weight: 10 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-6-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

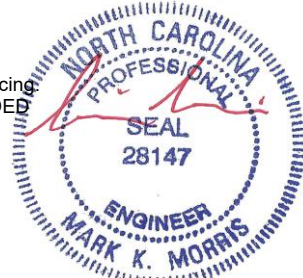
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 3=60/Mechanical, 2=159/0-3-8 (min. 0-1-8), 4=28/Mechanical
Max Horz 2=65(LC 12)
Max Uplift 3=-33(LC 12), 2=-10(LC 12)
Max Grav 3=63(LC 20), 2=159(LC 1), 4=44(LC 5)

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

- NOTES-** (8-12)
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 3 and 10 lb uplift at joint 2.
 - Trusses designed with 2018 IRC also comply with 2015 IRC.
 - 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

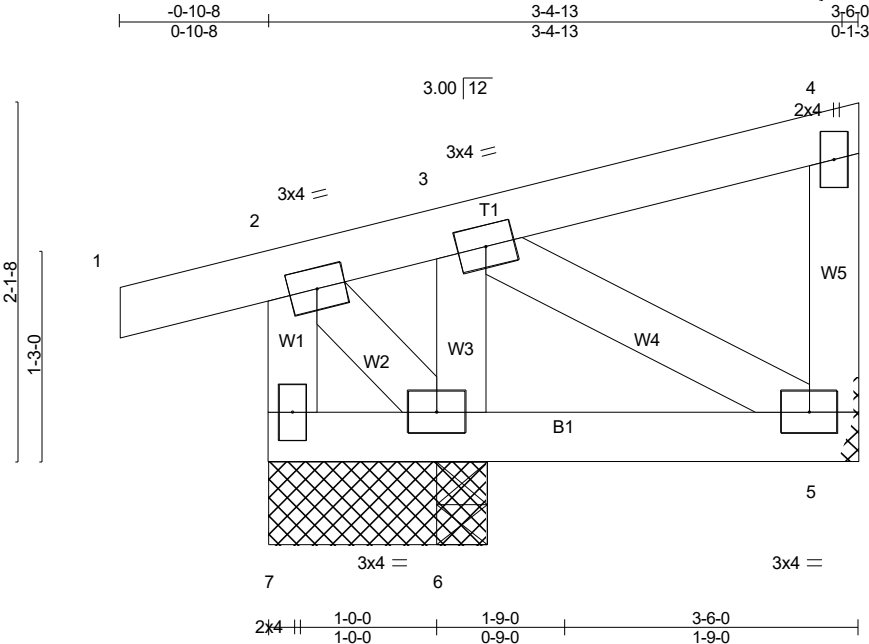


4/25/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	J14	Jack-Open Structural Gable	1	1	
Job Reference (optional)					# 58877

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:18:04 2025 Page 1
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Scale = 1:13.7

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.11	in (loc) l/defl L/d	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.04	Vert(LL) -0.00 6 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.03	Vert(CT) -0.00 5-6 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP	Horz(CT) -0.00 5 n/a n/a		
BCDL 10.0	Code IRC2021/TPI2014			Weight: 22 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

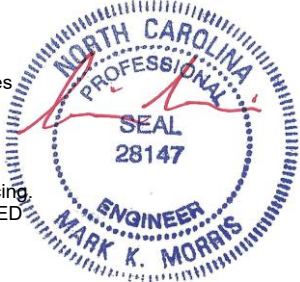
BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-6-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 1-3-8 except (jt=length) 5=Mechanical.
(lb) - Max Horz 7=36(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 5, 7, 6
Max Grav All reactions 250 lb or less at joint(s) 5, 7, 6, 6

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

- NOTES-** (11-15)
- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 6) Gable studs spaced at 2-0-0 oc.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - 9) Refer to girder(s) for truss to truss connections.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 7, 6.
 - 11) Trusses designed with 2018 IRC also comply with 2015 IRC.
 - 12) 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.
 - 13) 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.
 - 14) 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.
 - 15) 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.

Continued on page 2



4/25/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	J14	Jack-Open Structural Gable	1	1	Job Reference (optional) # 58877

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LOAD CASE(S) Standard

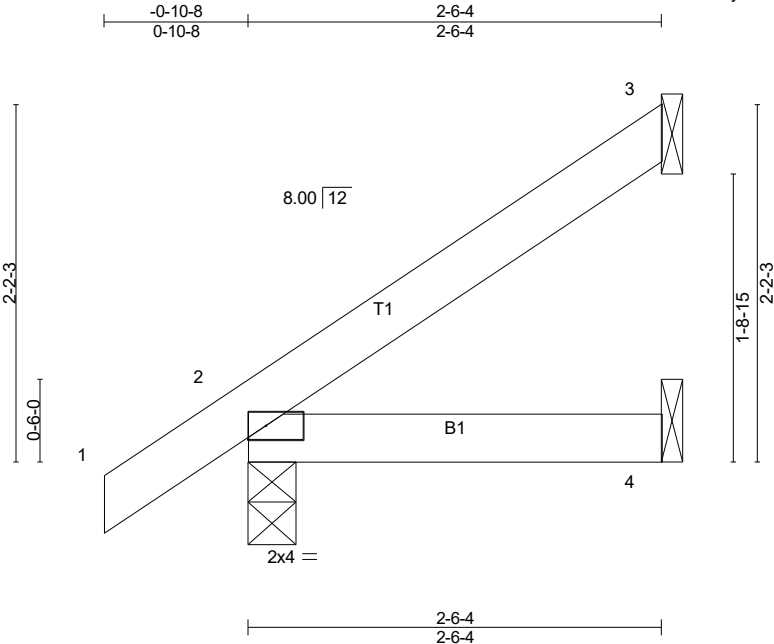


4/25/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	J15	Jack-Open	7	1	
Job Reference (optional)					# 58877

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LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.09	Vert(LL)	-0.00	4-7	>999	240	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.05	Vert(CT)	-0.00	4-7	>999	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP							
BCDL 10.0	Code IRC2021/TPI2014							Weight: 10 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-6-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

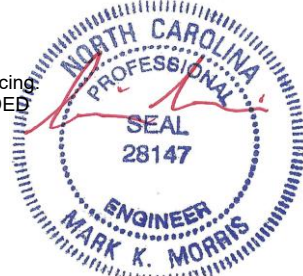
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 3=61/Mechanical, 2=160/0-3-8 (min. 0-1-8), 4=28/Mechanical
Max Horz 2=65(LC 12)
Max Uplift 3=-34(LC 12), 2=-10(LC 12)
Max Grav 3=63(LC 20), 2=160(LC 1), 4=45(LC 5)

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

- NOTES-** (8-12)
- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
 - 8) Trusses designed with 2018 IRC also comply with 2015 IRC.
 - 9) 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.
 - 10) 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.
 - 11) 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.
 - 12) 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

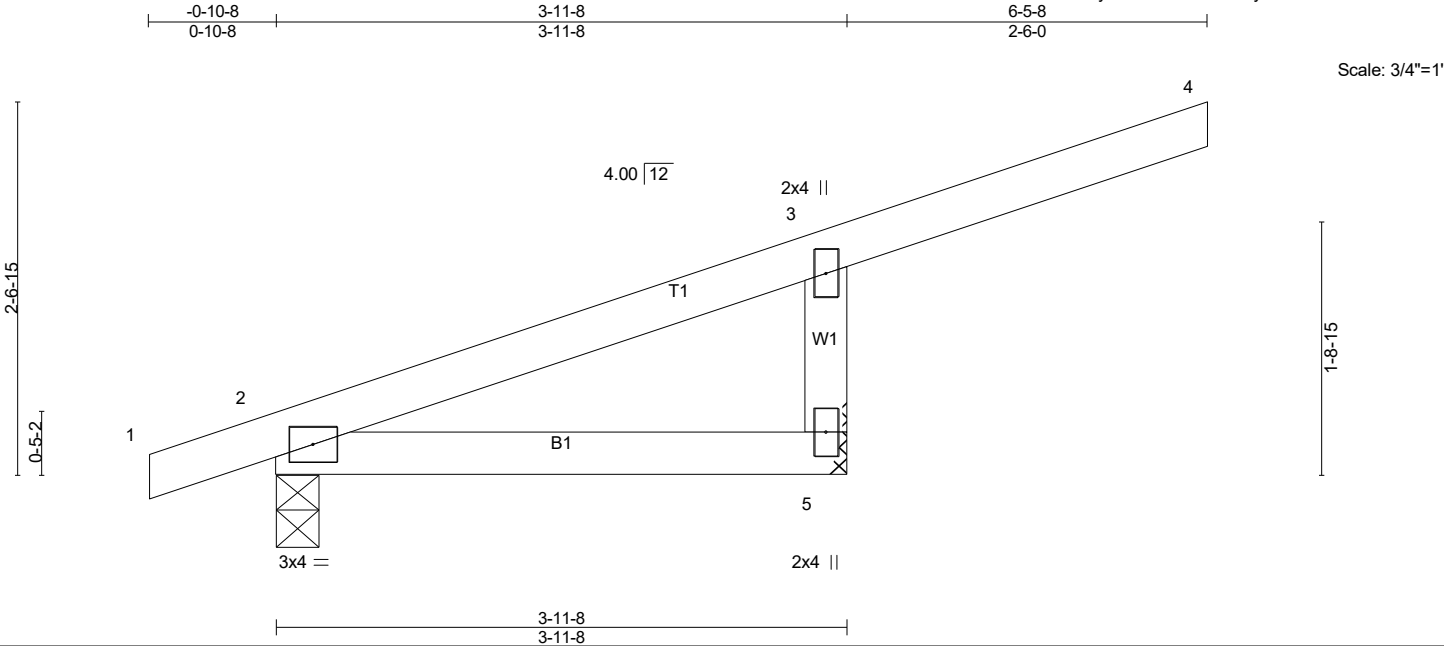


4/25/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	J16	Monopitch	3	1	
Job Reference (optional)					# 58877

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LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.86	Vert(LL) 0.02	5-8	>999	240		MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.23	Vert(CT) 0.02	5-8	>999	180			
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT) -0.00	2	n/a	n/a			
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP							
BCDL 10.0	Code IRC2021/TPI2014								
								Weight: 19 lb	FT = 20%

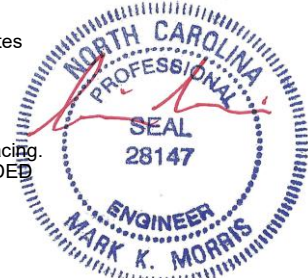
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-11-8 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 5=360/Mechanical, 2=156/0-3-8 (min. 0-1-8)
Max Horz 2=74(LC 10)
Max Uplift 5=95(LC 14), 2=16(LC 10)
Max Grav 5=509(LC 21), 2=183(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-5=-480/299

- NOTES-** (9-13)
- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2.
 - 9) Trusses designed with 2018 IRC also comply with 2015 IRC.
 - 10) 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.
 - 11) 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.
 - 12) 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.
 - 13) 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.

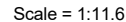
LOAD CASE(S) Standard



4/25/2025

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LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-	
TOP CHORD	Structural wood sheathing directly applied or 3-11-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

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

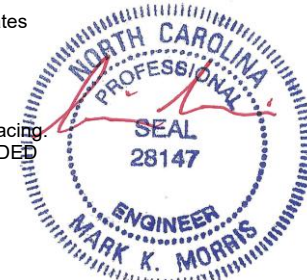
REACTIONS. (lb/size) 4=146/Mechanical, 2=211/0-3-8 (min. 0-1-8)
 Max Horz 2=51(LC 10)
 Max Uplift 4=-26(LC 14), 2=-42(LC 10)
 Max Grav 4=194(LC 21), 2=288(LC 21)

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

NOTES- (9-13)

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 9) Trusses designed with 2018 IRC also comply with 2015 IRC.
- 10) 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.
- 11) 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.
- 12) 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.
- 13) 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

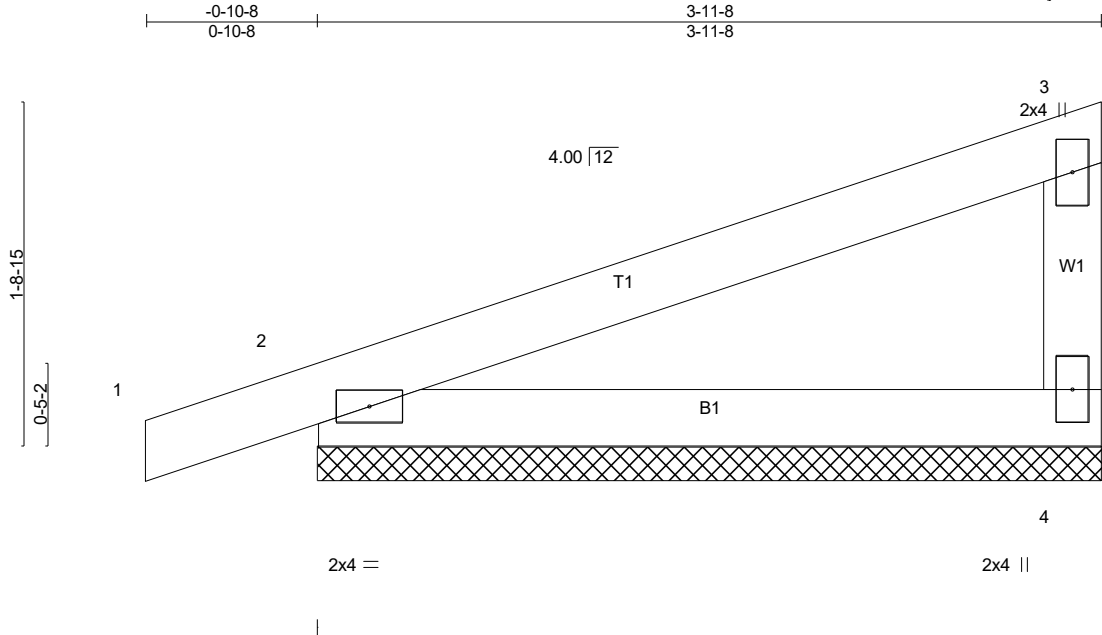


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Warning !—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation 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	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	J17A	Monopitch Supported Gable	1	1	
					Job Reference (optional) # 58877

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LOADING (psf)	SPACING-	CSL.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.35	Vert(LL)	-0.00	1	n/r	180	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.29	Vert(CT)	0.01	1	n/r	80		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.00		n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P							
BCDL 10.0	Code IRC2021/TPI2014							Weight: 15 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-11-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

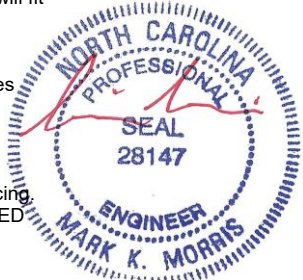
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 4=146/3-11-8 (min. 0-1-8), 2=211/3-11-8 (min. 0-1-8)
Max Horz 2=49(LC 10)
Max Uplift 4=-26(LC 14), 2=-42(LC 10)
Max Grav 4=194(LC 21), 2=288(LC 21)

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

- NOTES-** (11-15)
- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 6) Gable requires continuous bottom chord bearing.
 - 7) Gable studs spaced at 2-0-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
 - 11) Trusses designed with 2018 IRC also comply with 2015 IRC.
 - 12) 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.
 - 13) 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.
 - 14) 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.
 - 15) 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.

Continued on page 2



4/25/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	J17A	Monopitch Supported Gable	1	1	Job Reference (optional) # 58877

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:18:05 2025 Page 2
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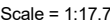
LOAD CASE(S) Standard



4/25/2025

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Weight: 23 lb FT = 20%

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

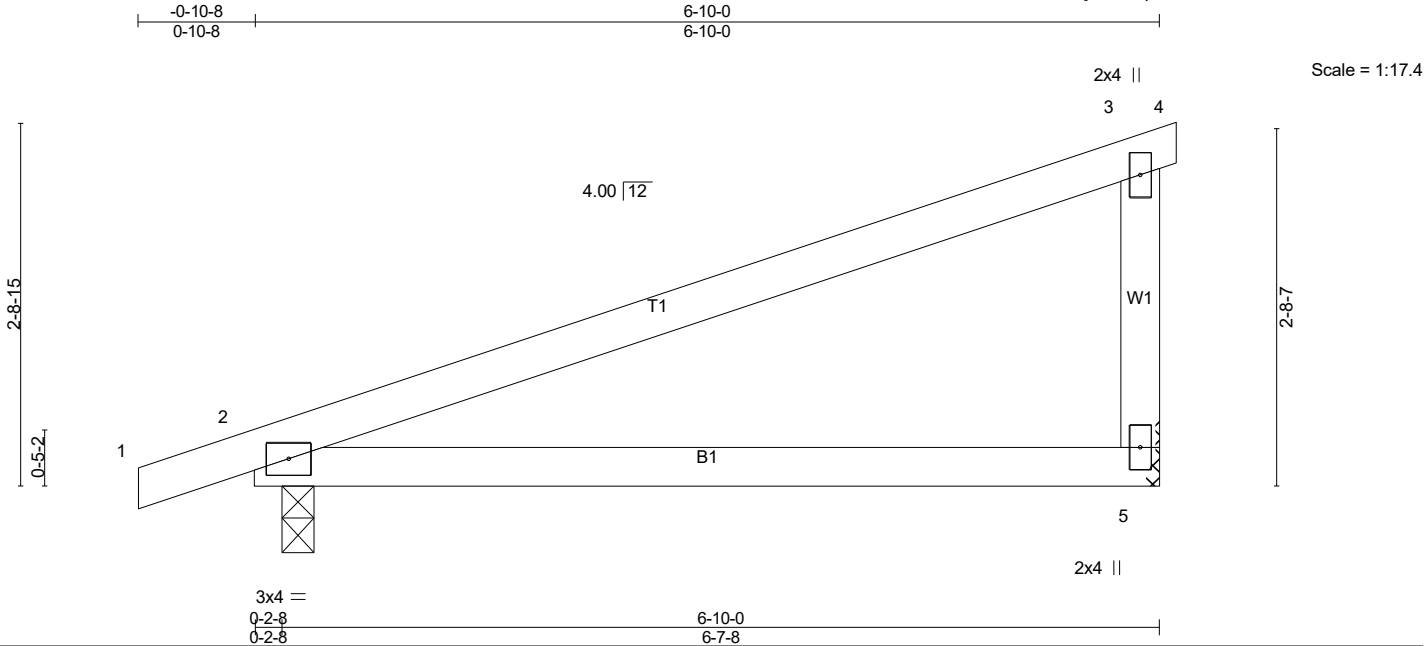
LOAD CASE(S) Standard



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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	J20	Monopitch	9	1	
					Job Reference (optional) # 58877

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LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	0.23	5-8	>342	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.23	5-8	>342		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.02	2	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-AS							
BCDL	10.0									Weight: 26 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SP No.3		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 5=281/Mechanical, 2=323/0-3-0 (min. 0-1-8)
Max Horz 2=82(LC 10)
Max Uplift 5=-100(LC 10), 2=-99(LC 10)
Max Grav 5=379(LC 21), 2=401(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-5=-285/167

- NOTES-** (10-14)
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Trusses designed with 2018 IRC also comply with 2015 IRC.
 - 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



4/25/2025

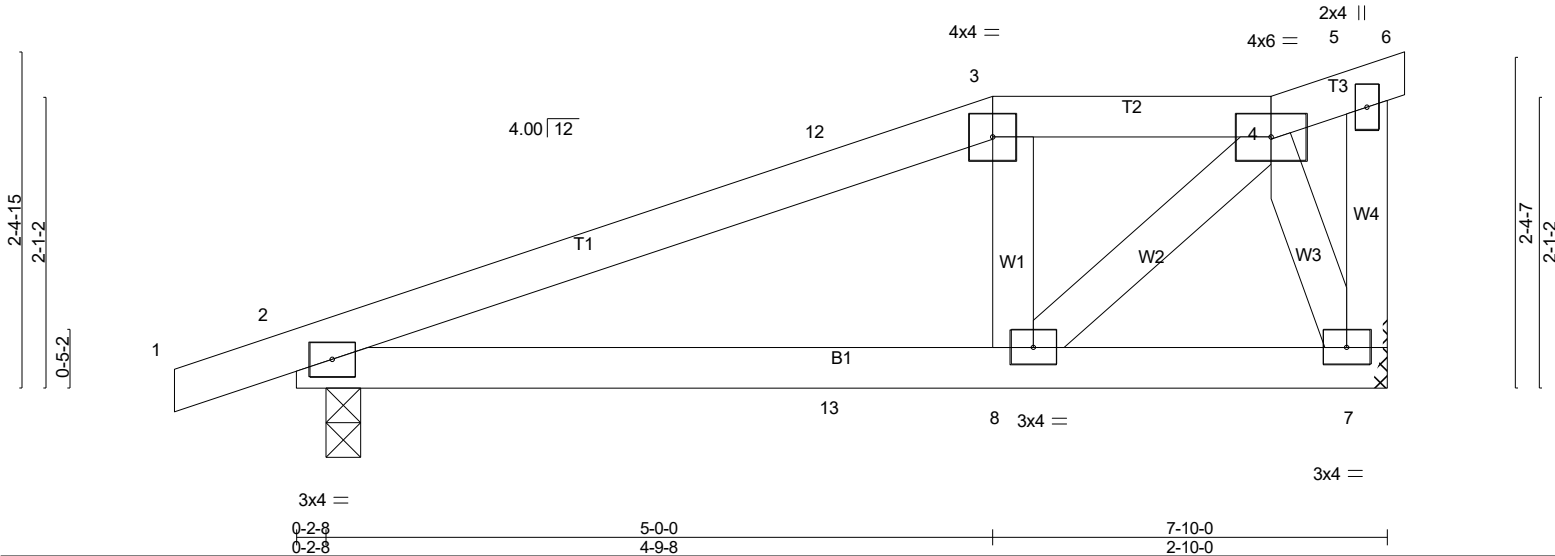
Warning !—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer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

Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	J21	Roof Special	1	1	
Job Reference (optional)					# 58877

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Scale = 1:16.5



LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	0.05	8-11	>999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.06	8-11	>999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.01	2	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-AS							
BCDL	10.0									Weight: 36 lb	FT = 20%

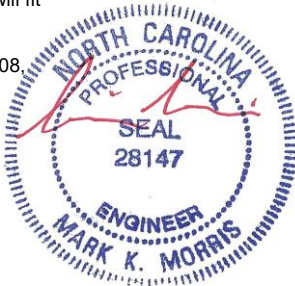
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 7=321/Mechanical, 2=363/0-3-0 (min. 0-1-8)
Max Horz 2=72(LC 10)
Max Uplift 7=-108(LC 10), 2=-116(LC 10)
Max Grav 7=362(LC 40), 2=496(LC 40)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-12=-473/352, 3-12=-372/358, 3-4=-372/371
BOT CHORD 2-13=-382/380, 8-13=-382/380
WEBS 4-8=-370/356, 4-7=-329/324

- NOTES-** (11-15)
- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Exterior(2R) 3-11-2 to 5-0-0, Exterior(2E) 5-0-0 to 7-11-8 zone; cantilever left exposed ; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 5) Provide adequate drainage to prevent water ponding.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - 8) Refer to girder(s) for truss to truss connections.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=108, 2=116.
 - 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	J21	Roof Special	1	1	Job Reference (optional) # 58877

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- 11) Trusses designed with 2018 IRC also comply with 2015 IRC.
- 12) 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.
- 13) 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.
- 14) 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.
- 15) 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



4/25/2025

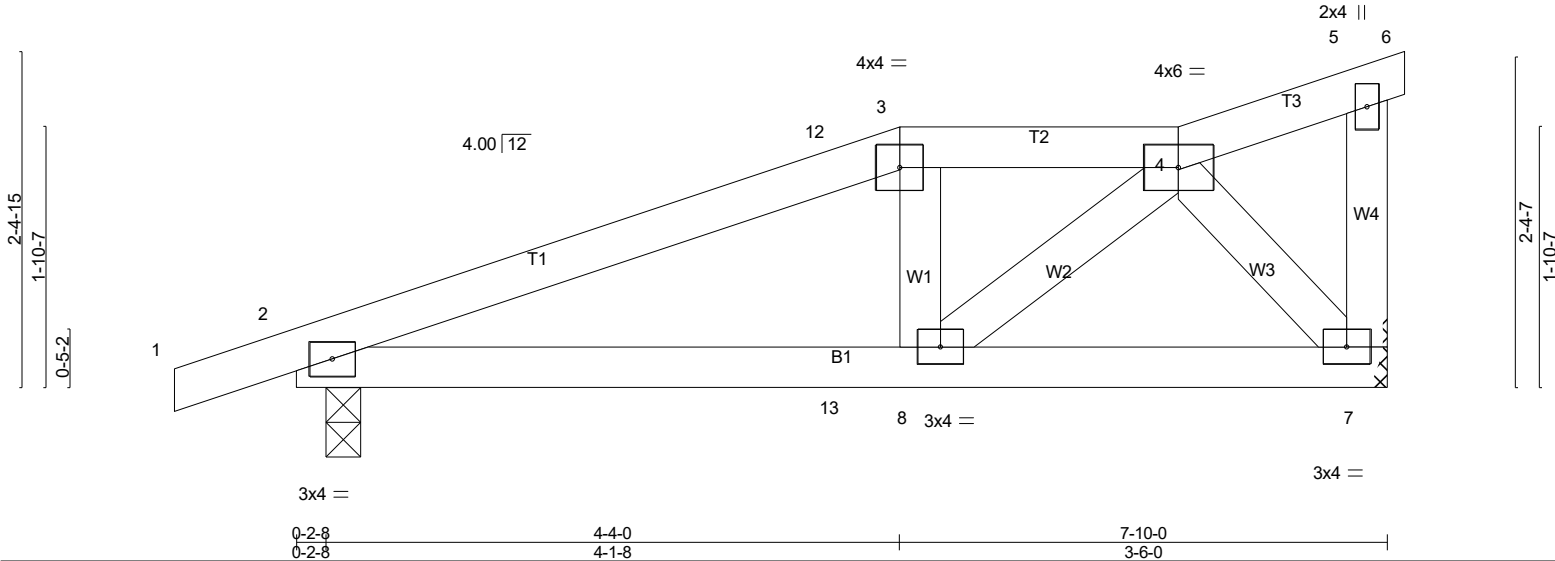
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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	J22	Roof Special	1	1	
					Job Reference (optional) # 58877

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Scale = 1:16.5



LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	0.03	8-11	>999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.03	8-11	>999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	7	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-AS						Weight: 36 lb	FT = 20%
BCDL	10.0										

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

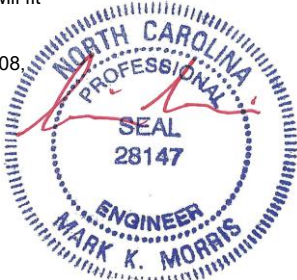
BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

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

REACTIONS. (lb/size) 7=321/Mechanical, 2=363/0-3-0 (min. 0-1-8)
Max Horz 2=72(LC 10)
Max Uplift 7=-108(LC 10), 2=-116(LC 10)
Max Grav 7=373(LC 40), 2=486(LC 40)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-12=-522/405, 3-12=-421/410, 3-4=-432/417
BOT CHORD 2-13=-434/437, 8-13=-434/437
WEBS 4-8=-296/268, 4-7=-351/325

- NOTES-** (11-15)
- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Exterior(2R) 3-11-2 to 4-4-0, Exterior(2E) 4-4-0 to 7-11-8 zone; cantilever left exposed ; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 5) Provide adequate drainage to prevent water ponding.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - 8) Refer to girder(s) for truss to truss connections.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=108, 2=116.
 - 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	J22	Roof Special	1	1	Job Reference (optional) # 58877

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:18:07 2025 Page 2
ID:GHOhT5MOv4FkLKIPfX2c9QzXMNI-5mei8wbojfCPAGO?FL2XDgHdwI_vozZVUSf04nzMoBk

- 11) Trusses designed with 2018 IRC also comply with 2015 IRC.
- 12) 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.
- 13) 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.
- 14) 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.
- 15) 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



4/25/2025

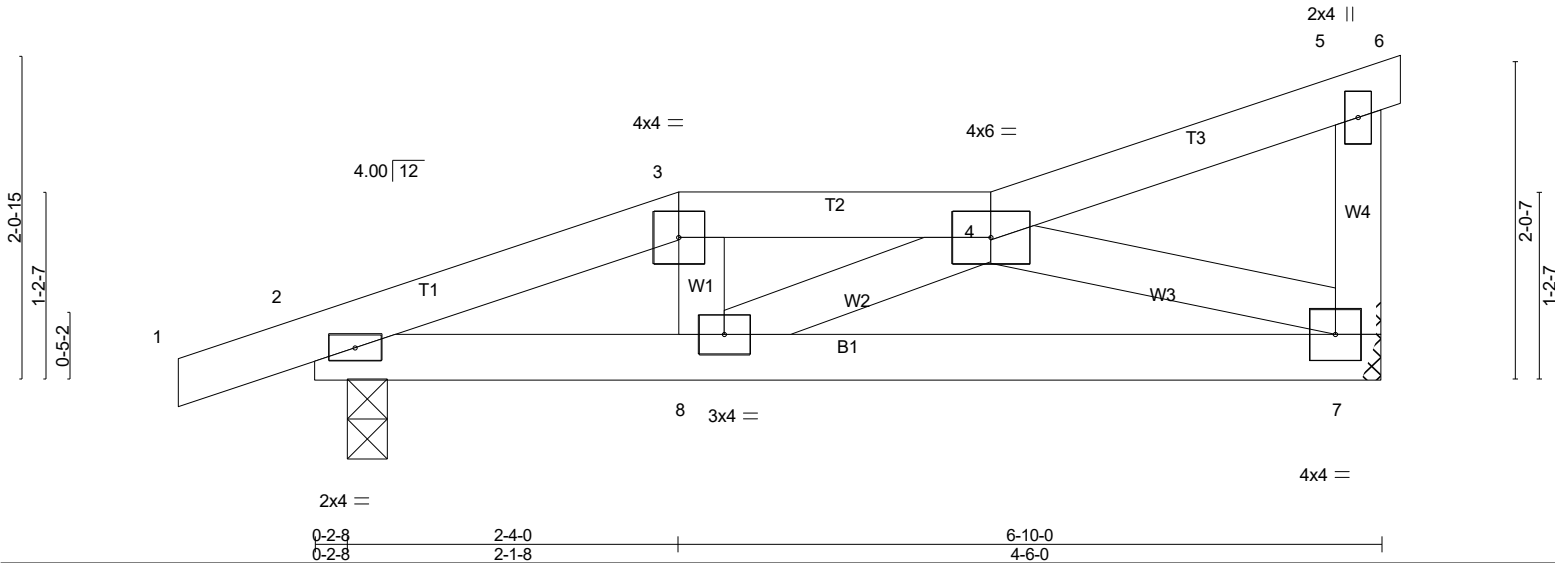
Warning !—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer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

Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	J23	Roof Special	1	1	
Job Reference (optional)					# 58877

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Scale = 1:14.8



LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	2-0-0	TC	0.14	Vert(LL)	0.03	7-8	>999	MT20	244/190
Snow (PF)	20.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.03	7-8	>999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	7	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-AS						Weight: 32 lb	FT = 20%
BCDL	10.0										

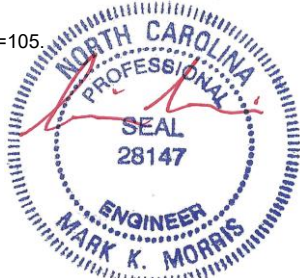
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 7=281/Mechanical, 2=323/0-3-0 (min. 0-1-8)
Max Horz 2=62(LC 10)
Max Uplift 7=-94(LC 10), 2=-105(LC 10)
Max Grav 7=339(LC 40), 2=405(LC 40)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-520/504, 3-4=-471/502
BOT CHORD 2-8=-521/462, 7-8=-383/423
WEBS 4-7=-454/411

- NOTES-** (11-15)
- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TC DL=5.0psf; BC DL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); PF=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 5) Provide adequate drainage to prevent water ponding.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - 8) Refer to girder(s) for truss to truss connections.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 2=105
 - 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	J23	Roof Special	1	1	Job Reference (optional) # 58877

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- 11) Trusses designed with 2018 IRC also comply with 2015 IRC.
- 12) 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.
- 13) 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.
- 14) 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.
- 15) 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.

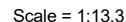
LOAD CASE(S) Standard



4/25/2025

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Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:18:08 2025 Page 1
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LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-	
TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied.

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

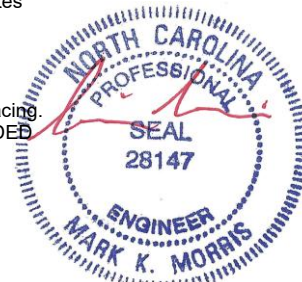
REACTIONS. (lb/size) 1=187/0-5-8 (min. 0-1-8), 4=204/Mechanical
Max Horz 1=50(LC 10)
Max Uplift1=-48(LC 10), 4=-73(LC 10)
Max Grav 1=251(LC 21), 4=276(LC 21)

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

NOTES- (9-13)

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Trusses designed with 2018 IRC also comply with 2015 IRC.
- 10) 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.
- 11) 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.
- 12) 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.
- 13) 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.

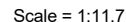
LOAD CASE(S) Standard



4/25/2025

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Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:18:08 2025 Page 1
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Weight: 19 lb FT = 20%

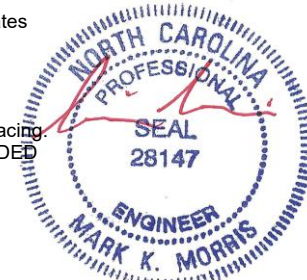
BRACING-	
TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied.

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

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

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left exposed ; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCDL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Trusses designed with 2018 IRC also comply with 2015 IRC.
- 11) 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.
- 12) 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.
- 13) 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.
- 14) 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

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	J26	Half Hip Girder	1	1	
Job Reference (optional)					# 58877

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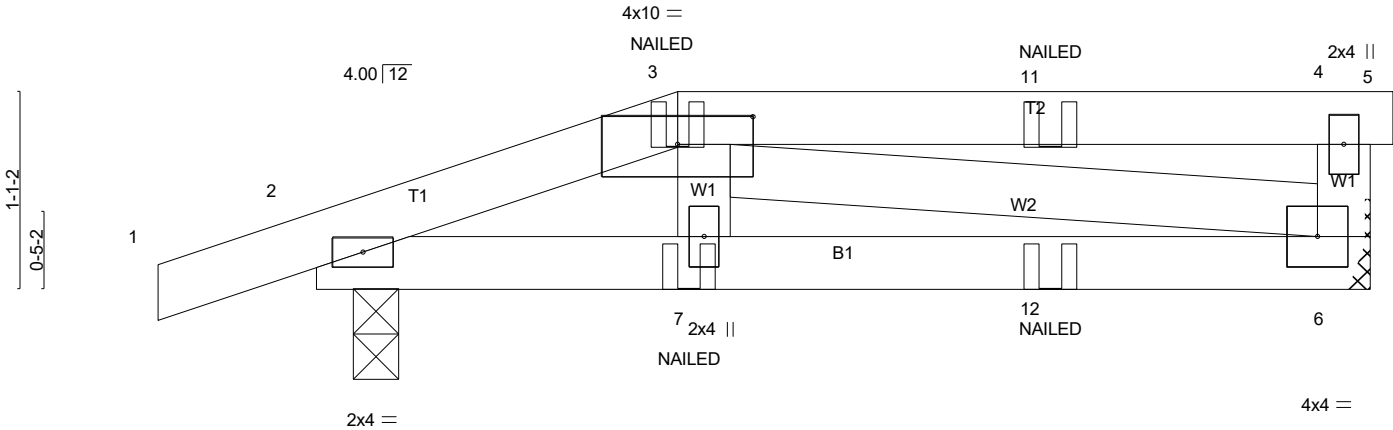


Plate Offsets (X,Y)-- [3:0-5-0,0-1-13]	0-2-8 0-2-8	2-0-0 1-9-8	5-10-0 3-10-0
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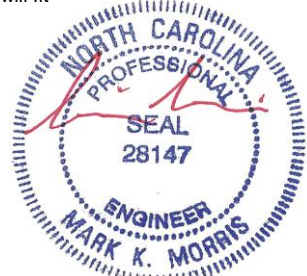
LOADING (psf)	SPACING	CSI	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.45	in (loc) l/defl L/d	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.21	Vert(LL) -0.01 6-7 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.13	Vert(CT) -0.02 6-7 >999 180		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MP	Horz(CT) 0.00 6 n/a n/a		
BCDL 10.0	Code IRC2021/TPI2014			Weight: 26 lb	FT = 20%

LUMBER-	BRACING-	
TOP CHORD 2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-10-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 6=250/Mechanical, 2=292/0-3-0 (min. 0-1-8)
Max Horz2=32(LC 8)
Max Uplift6=-73(LC 8), 2=-100(LC 8)
Max Grav6=333(LC 33), 2=353(LC 34)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-459/115
BOT CHORD 2-7=-114/425, 7-12=-116/434, 6-12=-116/434
WEBS 3-6=-445/119

- NOTES-** (12-16)
- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left exposed ; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 5) Provide adequate drainage to prevent water ponding.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - 8) Refer to girder(s) for truss to truss connections.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2.
 - 10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).



Continued on page 2

4/25/2025

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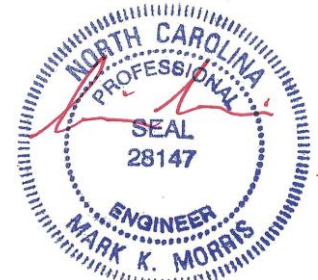
Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	J26	Half Hip Girder	1	1	Job Reference (optional) # 58877

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- 12) Trusses designed with 2018 IRC also comply with 2015 IRC.
- 13) 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.
- 14) 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.
- 15) 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.
- 16) 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

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-3=-60, 3-4=-60, 4-5=-60, 6-8=-20
 - Concentrated Loads (lb)
 - Vert: 3=-2(F) 7=-7(F) 11=-2(F) 12=-7(F)

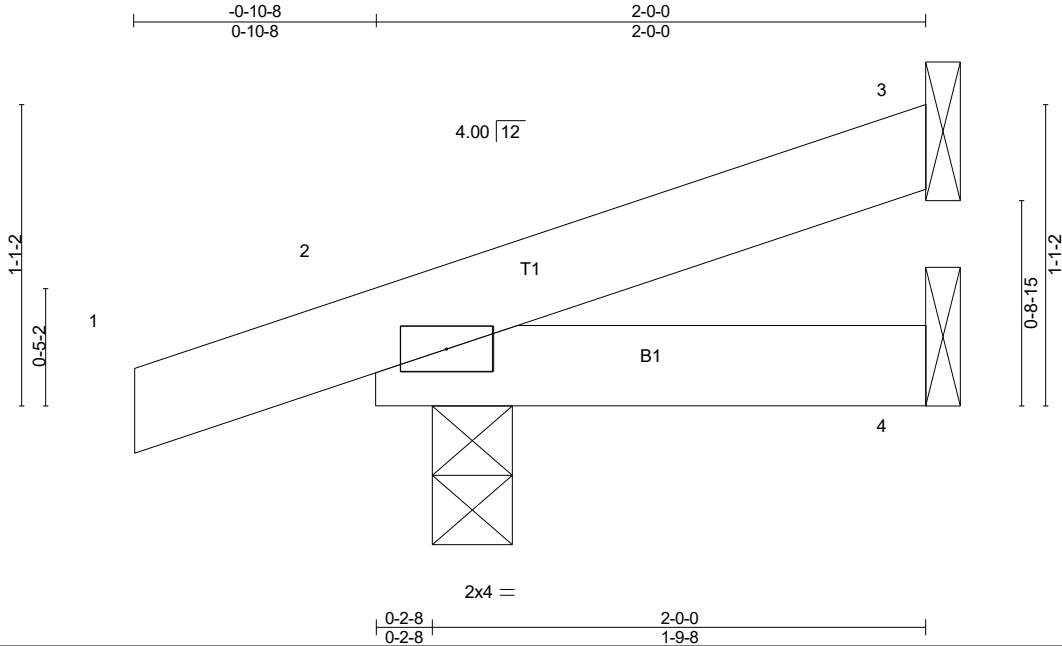


4/25/2025

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.

Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	J27	Jack-Open	2	1	
					Job Reference (optional) # 58877

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Scale = 1:8.4

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.09	in (loc) l/defl L/d	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.04	Vert(LL) 0.00 7 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.00 7 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP	Horz(CT) -0.00 3 n/a n/a		
BCDL 10.0	Code IRC2021/TPI2014			Weight: 8 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (lb/size) 3=45/Mechanical, 4=23/Mechanical, 2=144/0-3-8 (min. 0-1-8)
Max Horz 2=32(LC 10)
Max Uplift 3=-17(LC 10), 4=-6(LC 10), 2=-53(LC 10)
Max Grav 3=59(LC 21), 4=34(LC 7), 2=186(LC 21)

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

- NOTES-** (9)
- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4, 2.
 - 9) Trusses designed with 2018 IRC also comply with 2015 IRC.

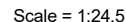
LOAD CASE(S) Standard



4/25/2025

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Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:18:09 2025 Page 1
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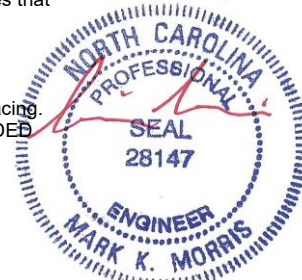


MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

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

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4.
- 8) Trusses designed with 2018 IRC also comply with 2015 IRC.
- 9) 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.
- 10) 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.
- 11) 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.
- 12) 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

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	P01	Piggyback	5	1	
					Job Reference (optional) # 58877

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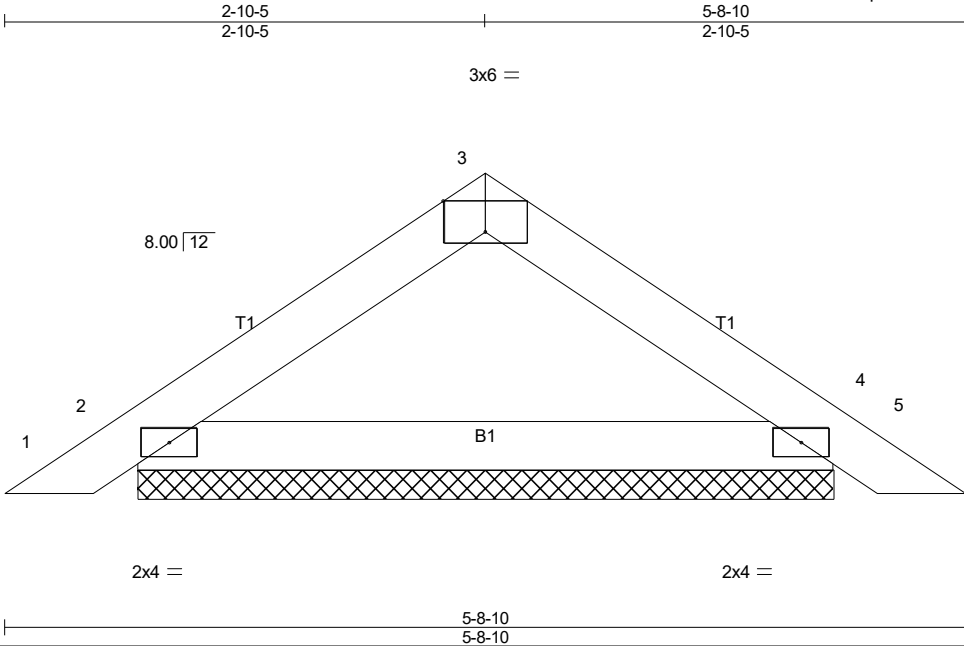


Plate Offsets (X,Y)-- [3:0-3-0,Edge]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	in (loc)	l/defl	MT20	GRIP
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.36	0.00 5	n/r		244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	0.00 5	n/r		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-P		0.00 4	n/a		
BCDL	10.0							Weight: 16 lb	FT = 20%

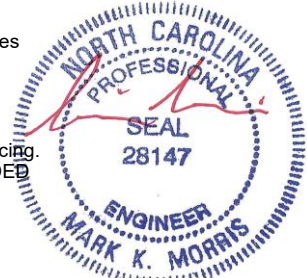
LUMBER-		BRACING-		Structural wood sheathing directly applied or 5-8-10 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing. MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
TOP CHORD	2x4 SP No.2	TOP CHORD		
BOT CHORD	2x4 SP No.3	BOT CHORD		

REACTIONS. (lb/size) 2=197/4-1-10 (min. 0-1-8), 4=197/4-1-10 (min. 0-1-8)
Max Horz 2=-34(LC 10)
Max Uplift 2=-21(LC 12), 4=-21(LC 13)

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

- NOTES-** (10-14)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - Trusses designed with 2018 IRC also comply with 2015 IRC.
 - 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

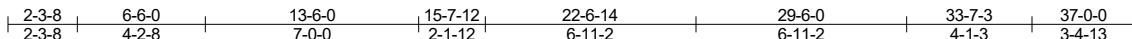


4/25/2025

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Scale = 1:75.6



LUMBER- TOP CHORD 2x4 SP No.2 BOT CHORD 2x6 SP No.2 *Except* B2: 2x4 SP No.2, B4: 2x4 SP No.3 WEBS 2x4 SP No.3	BRACING- TOP CHORD Structural wood sheathing directly applied or 4-4-15 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. WEBS 1 Row at midpt 9-21 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
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FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-857/195, 3-4=-1705/458, 4-31=-587/206, 31-32=-552/192, 5-32=-442/204,
5-33=-387/200, 33-34=-387/200, 6-34=-387/200, 6-35=-342/1129, 35-36=-342/1129,
7-36=-342/1129, 7-8=-349/1141, 8-37=-471/1443, 37-38=-471/1443, 38-39=-471/1443,
9-39=-471/1443, 9-40=-509/273, 10-40=-509/273, 10-41=-509/273, 11-41=-509/273,
11-42=-995/405, 42-43=-995/405, 12-43=-995/405, 12-44=-1163/461, 13-44=-1212/452,
13-14=-1484/486, 14-16=-917/285

BOT CHORD 2-26=-174/616, 25-26=-63/274, 4-25=-104/481, 25-45=-489/1713, 45-46=-489/1713,
24-46=-489/1714, 7-23=-260/73, 20-53=-330/869, 19-53=-330/869, 19-54=-330/869,
54-55=-330/869, 18-55=-330/869, 18-56=-456/1448, 56-57=-456/1448, 17-57=-456/1448

WEBS 4-24=-1359/366, 6-24=-266/880, 6-23=-1360/492, 21-23=-1483/537, 8-23=-244/715,
8-21=-1018/435, 9-21=-2048/722, 9-20=-270/1032, 11-20=-791/311, 11-18=-43/423,
12-18=-71/306, 13-18=-619/183, 13-17=-285/132, 3-26=-348/95, 3-25=-319/1109,
14-17=-433/1368

4/25/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	R01	Hip Girder	1	1	Job Reference (optional) # 58877

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- NOTES-** (13-17)
- 9) Bearing at joint(s) 21 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=143, 16=284, 21=1174.
 - 11) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
 - 13) Trusses designed with 2018 IRC also comply with 2015 IRC.
 - 14) 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.
 - 15) 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.
 - 16) 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.
 - 17) 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

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-5=-60, 5-12=-60, 12-13=-60, 13-14=-60, 14-15=-60, 26-27=-20, 23-25=-20, 16-22=-20
 - Concentrated Loads (lb)
 - Vert: 5=-21(B) 12=-40(B) 13=-41(B) 23=-42(B) 7=-21(B) 24=-42(B) 8=-40(B) 18=-23(B) 21=-23(B) 31=-41(B) 32=-8(B) 33=-21(B) 34=-21(B) 35=-21(B) 37=-40(B) 39=-40(B) 40=-40(B) 41=-40(B) 42=-40(B) 43=-40(B) 44=-10(B) 45=-34(B) 46=-58(B) 47=-42(B) 48=-42(B) 49=-42(B) 50=-23(B) 51=-23(B) 52=-23(B) 53=-23(B) 54=-23(B) 55=-23(B) 56=-59(B) 57=-86(B)



4/25/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	R02	Hip	1	1	
Job Reference (optional)					# 58877

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-0-10-8 2-3-8	5-9-0	9-6-0	13-6-0	20-0-0	26-6-0	33-7-3	37-0-0	37-10-8
0-10-8 2-3-8	3-5-8	3-9-0	4-0-0	6-6-0	6-6-0	7-1-3	3-4-13	0-10-8

Scale = 1:68.8

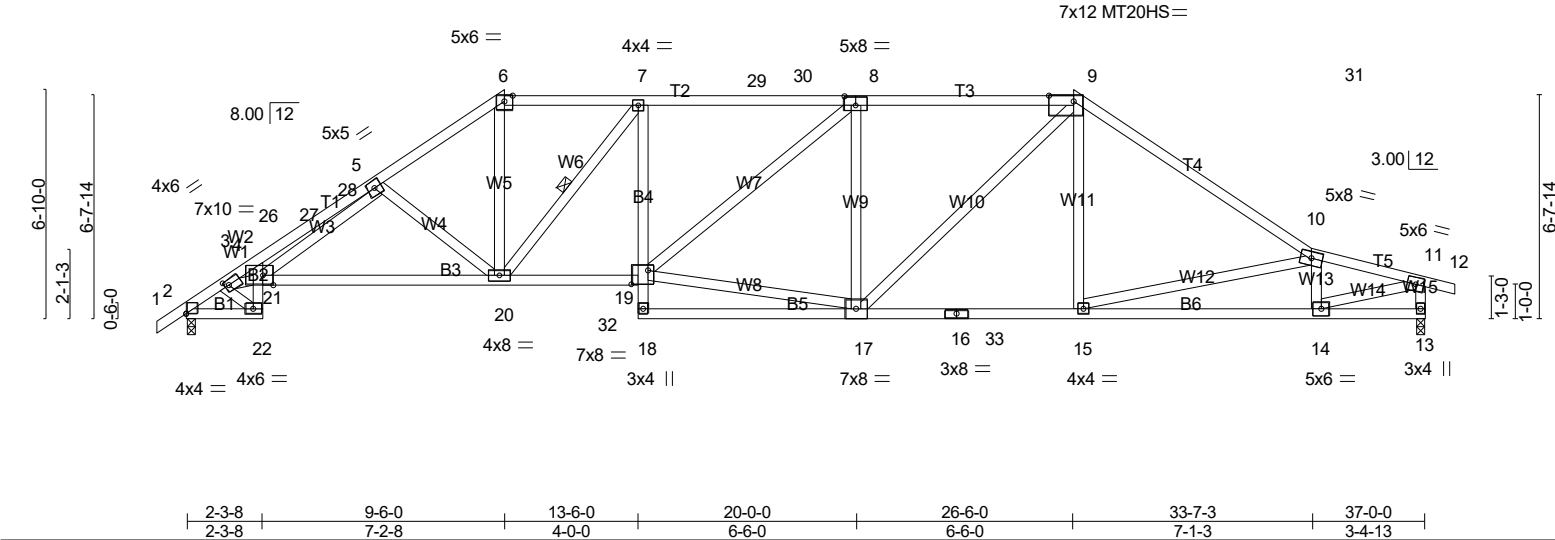


Plate Offsets (X,Y)--	[2:0-0-0,0-0-2], [3:0-1-8,0-1-12], [4:0-3-12,Edge], [8:0-4-0,0-3-4], [9:0-8-13,Edge], [19:0-6-0,0-5-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.95	in (loc) l/defl L/d	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.87	Vert(LL) -0.30 19-20 >999 240	MT20HS	187/143
TCDL 10.0	Lumber DOL 1.15	WB 0.95	Vert(CT) -0.54 20-21 >826 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.31 13 n/a n/a		
BCDL 10.0	Code IRC2021/TPI2014			Weight: 233 lb	FT = 20%

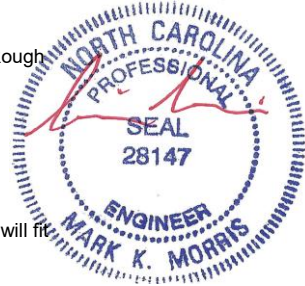
LUMBER-	BRACING-	
TOP CHORD 2x4 SP No.2 *Except*	TOP CHORD	Structural wood sheathing directly applied, except end verticals.
T1: 2x4 SP No.1, T4: 2x4 SP SS	BOT CHORD	Rigid ceiling directly applied.
BOT CHORD 2x4 SP No.2 *Except*	WEBS	1 Row at midpt 7-20
B2,B3: 2x4 SP No.1, B4: 2x4 SP No.3		MiTek recommends that Stabilizers and required cross bracing
2x4 SP No.3 *Except*		be installed during truss erection, in accordance with Stabilizer
W8,W14,W2,W3: 2x4 SP No.2		Installation guide.

REACTIONS. (lb/size) 2=1526/0-3-8 (min. 0-2-2), 13=1536/0-3-8 (min. 0-1-15)
Max Horz2=-132(LC 12)
Max Uplift2=-67(LC 14), 13=-78(LC 15)
Max Grav2=1779(LC 41), 13=1620(LC 40)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2393/378, 3-26=-5073/751, 4-26=-5058/753, 4-27=-5487/814, 27-28=-5467/814,
5-28=-5454/827, 5-6=-2954/493, 6-7=-2414/441, 7-29=-3205/539, 29-30=-3205/539,
8-30=-3205/539, 8-9=-2855/502, 9-31=-2628/446, 10-31=-2635/407, 10-11=-2739/477,
11-13=-1573/305
BOT CHORD 2-22=-238/1761, 21-22=-110/996, 20-21=-363/2818, 20-32=-306/3208, 19-32=-305/3211,
7-19=-8/405, 16-17=-208/2168, 16-33=-208/2168, 15-33=-208/2168, 14-15=-425/2698
WEBS 6-20=-175/1388, 7-20=-1281/159, 17-19=-276/2705, 8-19=-62/433, 8-17=-1051/194,
9-17=-144/968, 9-15=0/461, 10-15=-935/225, 10-14=-735/207, 11-14=-450/2658,
3-22=-1554/191, 3-21=-483/3608, 5-21=-296/2600, 5-20=-810/193

- NOTES-** (12-16)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Exterior(2R) 3-11-2 to 16-3-7, Interior(1) 16-3-7 to 19-8-9, Exterior(2R) 19-8-9 to 33-3-7, Interior(1) 33-3-7 to 33-7-3, Exterior(2E) 33-7-3 to 37-10-8 zone; end vertical right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 13.

Continued on page 2



4/25/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	R02	Hip	1	1	Job Reference (optional) # 58877

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- NOTES-** (12-16)
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 12) Trusses designed with 2018 IRC also comply with 2015 IRC.
 - 13) 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.
 - 14) 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.
 - 15) 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.
 - 16) 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

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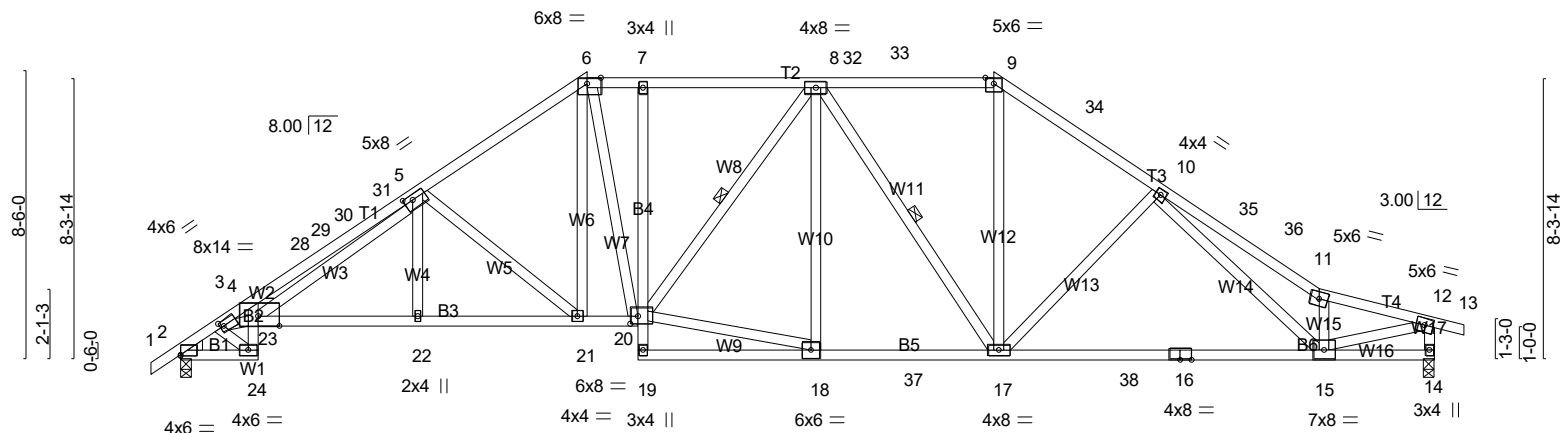
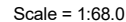


Plate Offsets (X,Y)-- [2:0-0-0,0-0-6], [3:0-1-4,0-1-12], [4:0-7-8,Edge], [5:0-3-2,0-1-12], [6:0-4-13,Edge], [20:0-2-12,0-2-12]

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2 *Except*	TOP CHORD	Structural wood sheathing directly applied, except end verticals. Rigid ceiling directly applied.
	T1: 2x4 SP SS	BOT CHORD	
BOT CHORD	2x4 SP SS *Except*	WEBS	1 Row at midpt 8-20, 8-17
	B1,B6: 2x4 SP No.2, B4: 2x4 SP No.3, B5: 2x4 SP No.1		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
WEBS	2x4 SP No.3 *Except*		
WEDGES	W16,W2,W3: 2x4 SP No.2		

REACTIONS. (lb/size) 2=1526/0-3-8 (min. 0-2-4), 14=1536/0-3-8 (min. 0-2-0)
 Max Horz 2=-165(LC 12)
 Max Uplift 2=-86(LC 14), 14=-96(LC 15)
 Max Grav 2=1883(LC 41), 14=1706(LC 41)

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

TOP CHORD 2-3=-2644/380, 3-4=-5517/763, 4-28=-5842/851, 28-29=-5760/852, 29-30=-5723/855,
30-31=-5683/859, 5-31=-5607/869, 5-6=-2445/488, 6-7=-2063/471, 7-32=-2058/471,
32-33=-2058/471, 8-33=-2058/471, 8-9=-1722/431, 9-34=-2070/467, 10-34=-2233/454,
10-35=-3335/577, 35-36=-3447/564, 11-36=-3557/562, 11-12=-2978/431, 12-14=-1678/291

BOT CHORD 2-24=-244/1950, 23-24=-108/1022, 22-23=-330/2737, 21-22=-330/2738, 20-21=-165/1886,
7-20=-457/87, 18-37=-192/2005, 17-37=-192/2005, 17-38=-293/2236, 16-38=-293/2236,
15-16=-293/2236

WEBS 6-21=-87/724, 6-20=-132/770, 18-20=-198/1845, 8-20=-48/285, 8-18=-287/84,
8-17=-517/131, 9-17=-127/836, 10-17=-715/203, 10-15=-101/960, 11-15=-1420/272,
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5-21=-1066/207

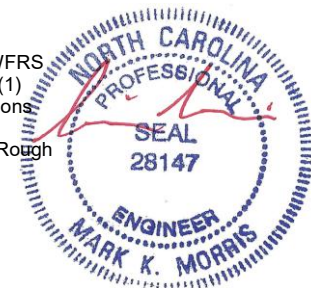
NOTES- (11-15)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDD=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 5-2-9, Exterior(2R) 5-2-9 to 30-9-7, Interior(1) 30-9-7 to 33-7-3, Exterior(2E) 33-7-3 to 37-10-8 zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Continued on page 2

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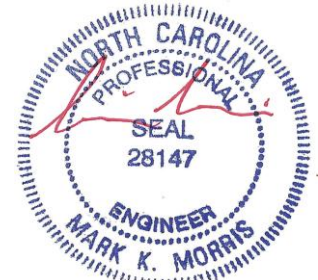
Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	R03	Hip	1	1	Job Reference (optional) # 58877

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NOTES- (11-15)

- 8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Trusses designed with 2018 IRC also comply with 2015 IRC.
- 12) 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.
- 13) 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.
- 14) 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.
- 15) 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



4/25/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	R04	Hip	1	1	
Job Reference (optional)					# 58877

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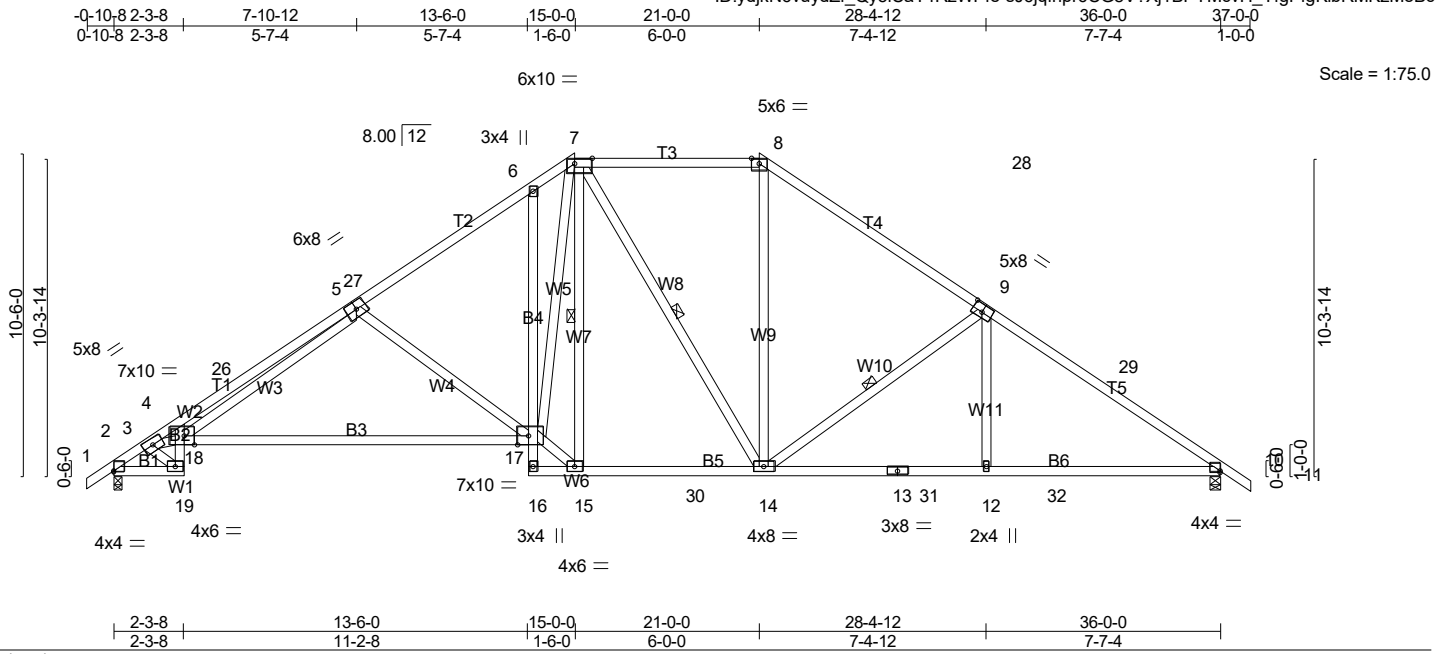


Plate Offsets (X,Y)-- [2:0-0-0,0-0-6], [4:0-4-0,Edge], [7:0-6-13,Edge], [9:0-4-0,0-3-0], [10:0-0-0,0-0-10], [17:0-4-4,Edge]							
LOADING (psf)		SPACING-		CSI.		DEFL.	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.76	in (loc)	l/defl
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.96	Vert(LL)	L/d
TCDL	10.0	Rep Stress Incr	YES	WB	0.81	Vert(CT)	
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-AS		Horz(CT)	
BCDL	10.0						
						PLATES	
						MT20	
						GRIP	
						244/190	
						Weight: 241 lb	
						FT = 20%	

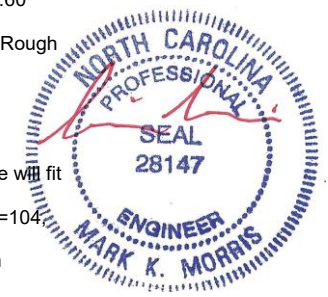
LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2 *Except* T1,T5: 2x4 SP SS	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x4 SP No.2 *Except* B3: 2x4 SP No.1, B4: 2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SP No.3 *Except* W2,W3: 2x4 SP No.2	WEBS	1 Row at midpt 7-15, 7-14, 9-14
		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.	

REACTIONS. (lb/size) 2=1492/0-3-8 (min. 0-1-12), 10=1500/0-3-8 (min. 0-1-13)
Max Horz2=-206(LC 10)
Max Uplift2=-104(LC 12), 10=-106(LC 13)
Max Grav2=1492(LC 1), 10=1548(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2067/128, 3-4=-4563/403, 4-26=-5103/443, 5-26=-5067/464, 5-27=-1935/184, 6-27=-1924/216, 6-7=-1730/284, 7-8=-1310/239, 8-28=-1668/227, 9-28=-1682/186, 9-29=-2176/179, 10-29=-2277/155
BOT CHORD 2-19=-189/1624, 18-19=-80/1001, 17-18=-184/2116, 15-16=-313/0, 15-30=0/1338, 14-30=0/1338, 13-14=-52/1807, 13-31=-52/1807, 12-31=-52/1807, 12-32=-51/1811, 10-32=-51/1811
WEBS 15-17=0/1793, 7-17=-149/1429, 7-15=-789/0, 8-14=-14/563, 9-14=-707/192, 9-12=0/370, 3-19=-1558/131, 3-18=-353/3460, 5-18=-275/2854, 5-17=-676/215

- NOTES-** (10-14)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 8-2-9, Exterior(2R) 8-2-9 to 27-9-7, Interior(1) 27-9-7 to 32-2-6, Exterior(2E) 32-2-6 to 37-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=104 10=106.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

Continued on page 2



4/25/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	R04	Hip	1	1	Job Reference (optional) # 58877

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- 10) Trusses designed with 2018 IRC also comply with 2015 IRC.
- 11) 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.
- 12) 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.
- 13) 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.
- 14) 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.

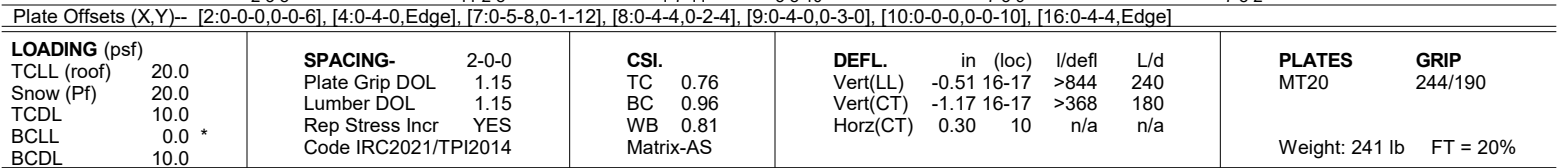
LOAD CASE(S) Standard



4/25/2025

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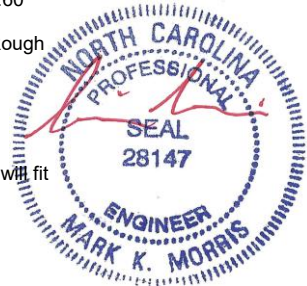


REACTIONS. (lb/size) 2=1493/0-3-8 (min. 0-1-12), 10=1439/0-3-8 (min. 0-1-12)
 Max Horz 2=205(LC 9)
 Max Uplift2=-105(LC 12), 10=-90(LC 13)
 Max Grav 2=1493(LC 1), 10=1495(LC 21)

NOTES- (10-14)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 8-4-4, Exterior(2R) 8-4-4 to 27-7-12, Interior(1) 27-7-12 to 31-2-6, Exterior(2E) 31-2-6 to 36-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide with fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 2=105.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

Continued on page 2



4/25/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	R05	Piggyback Base	1	1	Job Reference (optional) # 58877

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ID: ydjkN6vuydZf_Qy5lCaT4RzWPfe-LVg51?iScQK7mfajHkie5Z940NuuPsvqZML?umzMbBb

- 10) Trusses designed with 2018 IRC also comply with 2015 IRC.
- 11) 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.
- 12) 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.
- 13) 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.
- 14) 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



4/25/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	R06	Piggyback Base	1	1	
Job Reference (optional)					# 58877

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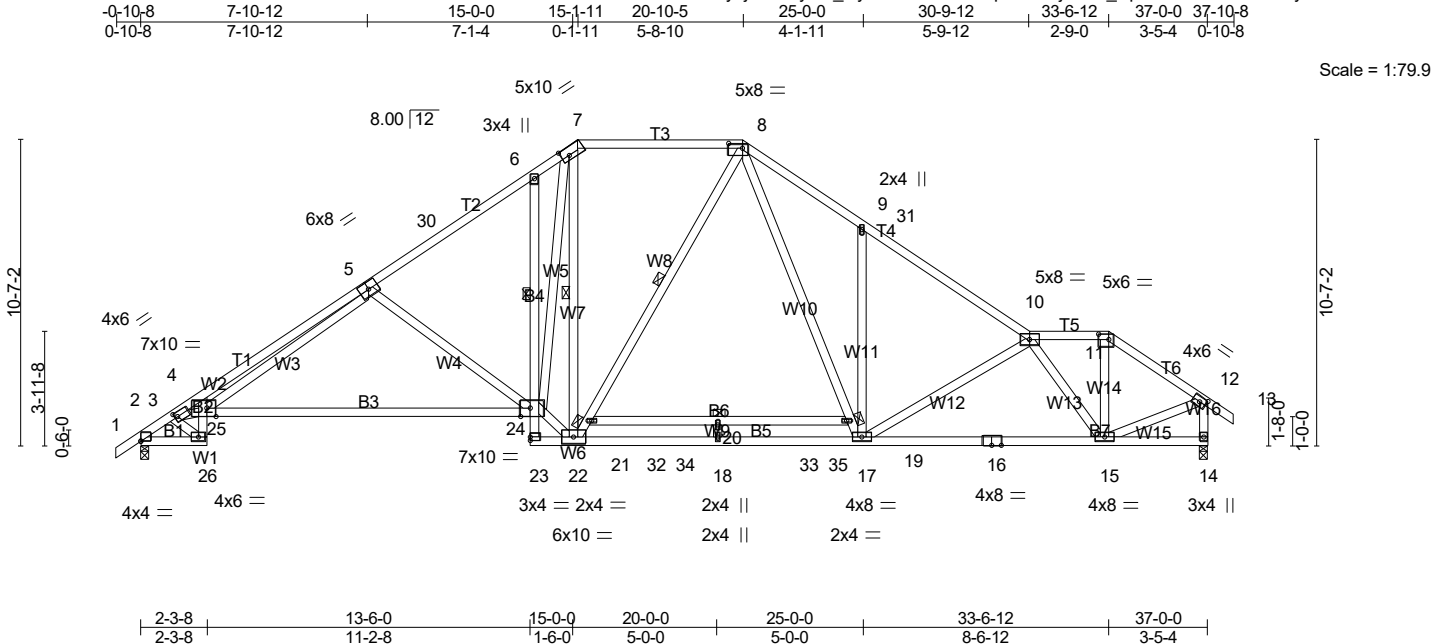
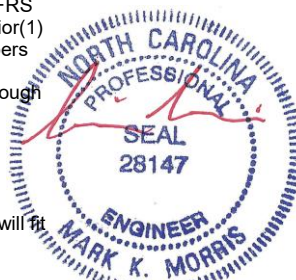


Plate Offsets (X,Y)--		[2:0-0-0,0-0-2], [3:0-1-4,0-1-12], [4:0-3-12,Edge], [7:0-3-4,0-3-4], [8:0-5-12,0-2-0], [11:0-4-4,0-2-4], [12:0-2-14,0-2-0], [24:0-4-0,Edge]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL (roof) 20.0	Plate Grip DOL 1.15	TC 0.88	in (loc) l/defl L/d
Snow (Pf) 20.0	Lumber DOL 1.15	BC 0.98	Vert(LL) -0.62 17-18 >711 240
TCDL 10.0	Rep Stress Incr YES	WB 0.95	Vert(CT) -1.18 24-25 >375 180
BCLL 0.0 *	Code IRC2021/TPI2014	Matrix-AS	Horz(CT) 0.33 14 n/a n/a
BCDL 10.0			
			Weight: 278 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except*	TOP CHORD Structural wood sheathing directly applied, except end verticals.
T1: 2x4 SP SS	BOT CHORD Rigid ceiling directly applied. Except:
BOT CHORD 2x4 SP No.2 *Except*	1 Row at midpt 6-24
B3,B5: 2x4 SP SS, B4: 2x4 SP No.3, B6: 2x4 SP No.1	6-0-0 oc bracing: 19-21
WEBS 2x4 SP No.3 *Except*	1 Row at midpt 7-22, 8-21
W2,W3,W4: 2x4 SP No.2	
	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS.	(lb/size) 2=1610/0-3-8 (min. 0-1-15), 14=1635/0-3-8 (min. 0-2-0)
	Max Horz2=227(LC 11)
	Max Uplift2=-63(LC 12), 14=-64(LC 13)
	Max Grav2=1643(LC 20), 14=1704(LC 3)
FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-2298/96, 3-4=-5217/273, 4-5=-5752/328, 5-30=-2335/137, 6-30=-2228/155, 6-7=-2191/228, 7-8=-1621/184, 8-9=-2491/246, 9-31=-2350/137, 10-31=-2494/120, 10-11=-1429/102, 11-12=-1737/103, 12-14=-1652/107
BOT CHORD	2-26=-147/1849, 25-26=-56/1126, 24-25=-114/2477, 23-24=-650/0, 22-23=-379/0, 22-32=0/1585, 18-32=0/1585, 18-33=0/1585, 17-33=0/1585, 16-17=-32/2374, 15-16=-32/2374
WEBS	7-22=-734/145, 22-24=0/2323, 7-24=-162/1568, 8-19=-138/1233, 17-19=-175/1097, 9-17=-360/193, 10-17=-497/148, 10-15=-1632/95, 11-15=-19/819, 12-15=0/1459, 3-26=-1755/91, 3-25=-262/3928, 5-25=-222/3092, 5-24=-710/209

- NOTES- (10-14)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 10-4-1, Exterior(2R) 10-4-1 to 25-7-15, Interior(1) 25-7-15 to 30-9-12, Exterior(2R) 30-9-12 to 33-6-12, Exterior(2E) 33-6-12 to 37-10-8 zone; end vertical right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14.



Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	R06	Piggyback Base	1	1	Job Reference (optional) # 58877

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- NOTES-** (10-14)
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 10) Trusses designed with 2018 IRC also comply with 2015 IRC.
 - 11) 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.
 - 12) 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.
 - 13) 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.
 - 14) 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



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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	R07	Piggyback Base	1	1	
Job Reference (optional)					# 58877

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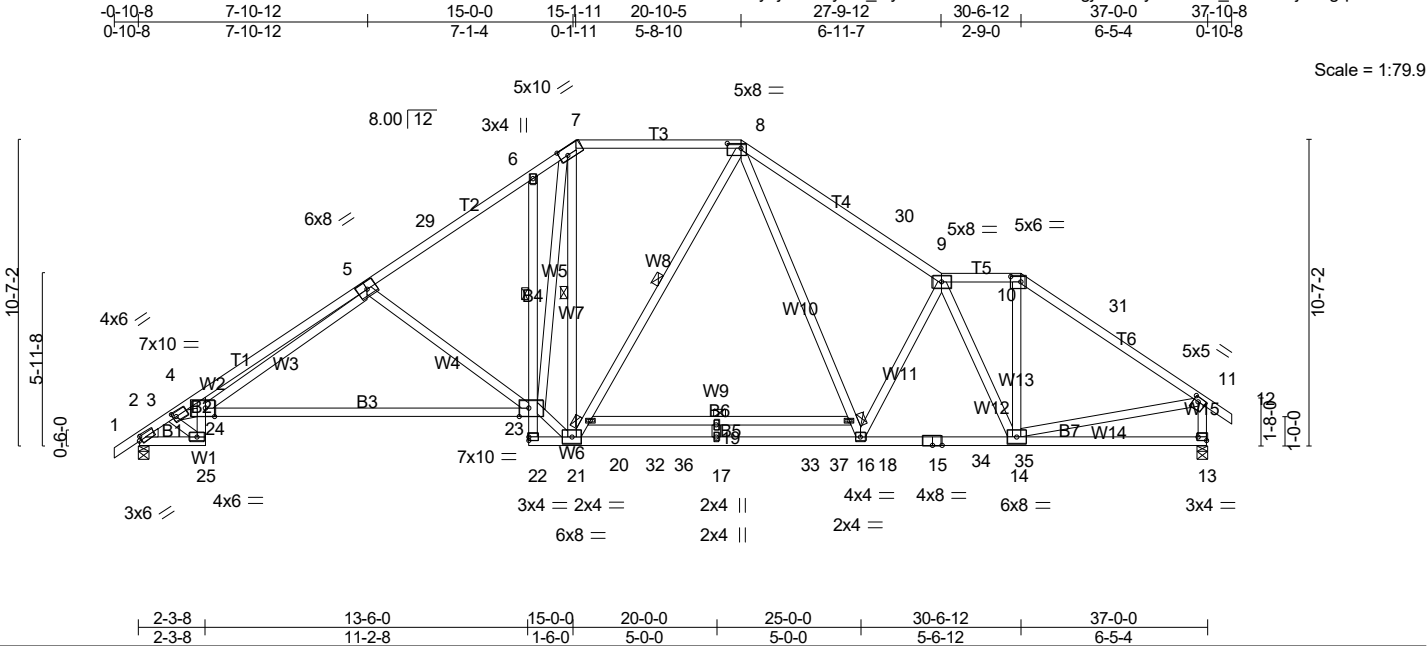


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LOADING (psf)		
TCLL (roof)	20.0	
Snow (Pf)	20.0	
TCDL	10.0	
BCLL	0.0 *	
BCDL	10.0	
SPACING-		
Plate Grip DOL	1.15	
Lumber DOL	1.15	
Rep Stress Incr	YES	
Code IRC2021/TPI2014		
CSI.		
TC	0.90	
BC	1.00	
WB	0.99	
Matrix-AS		
DEFL.		
Vert(LL)	-0.61 18-19	>728 240
Vert(CT)	-1.18 23-24	>375 180
Horz(CT)	0.32 13	n/a n/a
PLATES		
MT20		
GRIP		
244/190		
Weight: 277 lb		FT = 20%

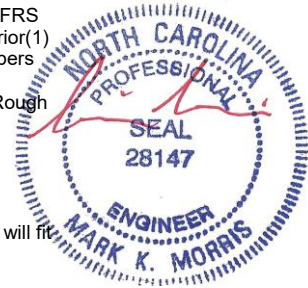
LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2 *Except*	TOP CHORD	Structural wood sheathing directly applied, except end verticals. Rigid ceiling directly applied. Except:
	T1: 2x4 SP SS	BOT CHORD	
BOT CHORD	2x4 SP No.2 *Except*		1 Row at midpt 6-23
	B3,B5: 2x4 SP SS, B4: 2x4 SP No.3, B6: 2x4 SP No.1		6-0-0 oc bracing: 18-20
WEBS	2x4 SP No.3 *Except*	WEBS	1 Row at midpt 7-21, 8-20
	W6,W2,W3,W4: 2x4 SP No.2		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
WEDGE			
Left: 2x4 SP No.3			

REACTIONS. (lb/size) 2=1611/0-3-8 (min. 0-1-15), 13=1637/0-3-8 (min. 0-2-1)
Max Horz2=227(LC 11)
Max Uplift2=-63(LC 12), 13=-64(LC 13)
Max Grav2=1663(LC 20), 13=1761(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2329/101, 3-4=-5284/272, 4-5=-5821/327, 5-29=-2376/143, 6-29=-2268/161, 6-7=-2239/238, 7-8=-1649/187, 8-30=-2454/205, 9-30=-2545/179, 9-10=-1710/153, 10-31=-2007/137, 11-31=-2112/121, 11-13=-1680/140
BOT CHORD 2-25=-146/1872, 24-25=-55/1139, 23-24=-113/2513, 22-23=-653/0, 21-22=-389/0, 21-32=0/1715, 17-32=0/1715, 17-33=0/1715, 16-33=0/1715, 16-34=0/2241, 15-34=0/2241, 15-35=0/2241, 14-35=0/2241
WEBS 7-21=-723/155, 21-23=0/2364, 7-23=-169/1580, 8-18=-52/1115, 16-18=-85/945, 9-16=-527/200, 9-14=-1306/44, 10-14=0/917, 11-14=0/1536, 3-25=-1775/91, 3-24=-261/3976, 5-24=-222/3119, 5-23=-713/209

- NOTES-** (10-14)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-10-8 to 3-11-2, Interior(1) 3-11-2 to 10-4-1, Exterior(2R) 10-4-1 to 25-7-15, Interior(1) 25-7-15 to 27-9-12, Exterior(2R) 27-9-12 to 33-0-14, Exterior(2E) 33-0-14 to 37-10-8 zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCCL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.0; Ct=1.10
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 13.

Continued on page 2



4/25/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	R07	Piggyback Base	1	1	Job Reference (optional) # 58877

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- NOTES-** (10-14)
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 10) Trusses designed with 2018 IRC also comply with 2015 IRC.
 - 11) 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.
 - 12) 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.
 - 13) 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.
 - 14) 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



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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	R08	Piggyback Base	1	1	
Job Reference (optional)					# 58877

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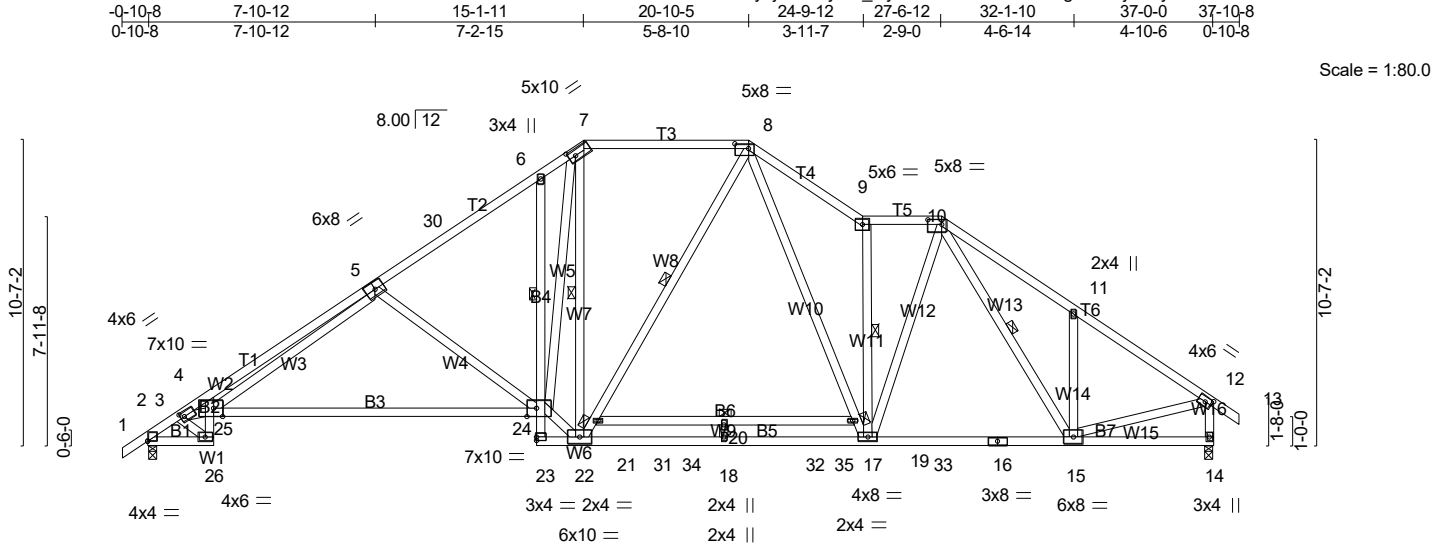


Plate Offsets (X,Y)--	[2:0-0-0,0-0-2], [3:0-1-8,0-1-12], [4:0-3-12,Edge], [7:0-3-0,0-2-12], [8:0-5-12,0-2-0], [10:0-5-12,0-2-0], [12:0-2-14,0-2-0], [24:0-4-0,Edge]
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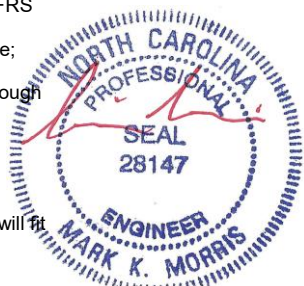
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL 1.15	TC 0.91	in (loc) l/defl L/d	MT20	244/190
Snow (Pf) 20.0	Lumber DOL 1.15	BC 0.98	Vert(LL) -0.61 17-18 >728 240		
TCDL 10.0	Rep Stress Incr YES	WB 0.97	Vert(CT) -1.17 24-25 >377 180		
BCLL 0.0 *	Code IRC2021/TPI2014	Matrix-AS	Horz(CT) 0.32 14 n/a n/a		
BCDL 10.0				Weight: 289 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* T1: 2x4 SP SS	TOP CHORD Structural wood sheathing directly applied, except end verticals. BOT CHORD Rigid ceiling directly applied. Except: 1 Row at midpt 6-24 6-0-0 oc bracing: 19-21 1 Row at midpt 7-22, 8-21, 9-17, 10-15
BOT CHORD 2x4 SP No.2 *Except* B2: 2x4 SP No.1, B3,B5: 2x4 SP SS, B4: 2x4 SP No.3	
WEBS 2x4 SP No.3 *Except* W2,W3: 2x4 SP No.2	
	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=1610/0-3-8 (min. 0-2-0), 14=1635/0-3-8 (min. 0-2-2)
Max Horz2=227(LC 11)
Max Uplift2=-63(LC 12), 14=-64(LC 13)
Max Grav2=1676(LC 20), 14=1808(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2350/91, 3-4=-5257/265, 4-5=-5865/329, 5-30=-2401/131, 6-30=-2293/148,
6-7=-2258/222, 7-8=-1669/179, 8-9=-2562/235, 9-10=-2076/155, 10-11=-2061/225,
11-12=-2066/125, 12-14=-1756/124
BOT CHORD 2-26=-147/1889, 25-26=-54/1118, 24-25=-114/2536, 23-24=-652/0, 22-23=-384/0,
22-31=0/1650, 18-31=0/1650, 18-32=0/1650, 17-32=0/1650, 17-33=0/1734, 16-33=0/1734,
15-16=0/1734
WEBS 7-22=-723/150, 22-24=0/2382, 7-24=-166/1572, 8-19=-118/1246, 17-19=-153/1124,
9-17=-1499/164, 10-17=0/1077, 11-15=-294/172, 12-15=-7/1645, 3-26=-1740/90,
3-25=-252/3910, 5-25=-223/3137, 5-24=-716/209

- NOTES-** (10-14)
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 10-4-1, Exterior(2R) 10-4-1 to 20-10-5, Exterior(2E) 20-10-5 to 24-9-12, Exterior(2R) 24-9-12 to 32-1-10, Interior(1) 32-1-10 to 33-0-14, Exterior(2E) 33-0-14 to 37-10-8 zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 5) Provide adequate drainage to prevent water ponding.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14.



Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	R08	Piggyback Base	1	1	Job Reference (optional) # 58877

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:18:19 2025 Page 2
ID: ydjkn6vuydzf_Qy5lCaT4RzWPfe-4MEg0kKulJid6llytGLiCnXtbvCcA3GFKZfV5zM0BY

- NOTES-** (10-14)
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 10) Trusses designed with 2018 IRC also comply with 2015 IRC.
 - 11) 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.
 - 12) 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.
 - 13) 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.
 - 14) 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.

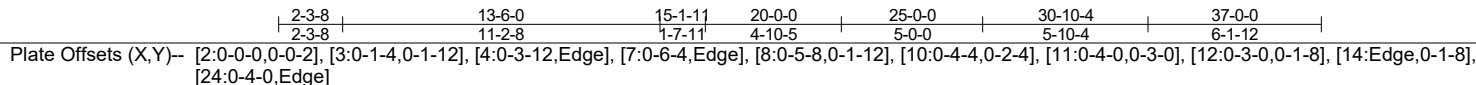
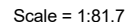
LOAD CASE(S) Standard



4/25/2025

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Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:18:20 2025 Page 1
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LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2 *Except* T1: 2x4 SP SS	TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	2x4 SP No.2 *Except* B3,B5: 2x4 SP SS, B4: 2x4 SP No.3, B6: 2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied. Except: 1 Row at midpt 6-24
WEBS	2x4 SP No.3 *Except* W2,W3: 2x4 SP No.2	WEBS	1 Row at midpt 7-22, 8-21, 9-17
		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.	

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

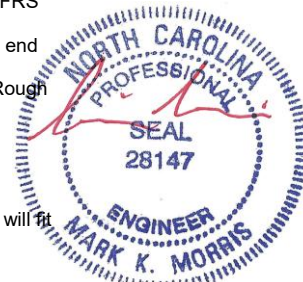
TOP CHORD 2-3=-2304/99, 3-4=-5216/278, 4-5=-5750/334, 5-30=-2345/141, 6-30=-2238/159,
6-7=-2202/231, 7-8=-1625/186, 8-9=-1950/208, 9-10=-1595/185, 10-31=-1970/171,
11-31=-2058/140, 11-12=-2084/133, 12-14=-1678/130

BOT CHORD 2-26=-148/1844, 25-26=-57/1122, 24-25=-117/2471, 23-24=-552/0, 22-23=-390/0,
22-32=0/1581, 18-32=0/1581, 18-33=0/1581, 17-33=0/1581, 17-34=0/1667, 16-34=0/1667,
15-16=0/1667

WEBS 7-22=-655/146, 22-24=0/2258, 7-24=-164/1503, 11-15=-269/48, 12-15=0/1569,
9-17=-740/57, 8-19=-47/624, 17-19=-88/504, 10-17=0/752, 3-26=-1749/93, 3-25=-266/3919,
5-25=-224/3085, 5-24=-707/209

NOTES- (10-14)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDF=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 10-4-10, Exterior(2R) 10-4-10 to 20-10-5, Exterior(2E) 20-10-5 to 21-9-12, Exterior(2R) 21-9-12 to 29-4-6, Interior(1) 29-4-6 to 33-0-14, Exterior(2E) 33-0-14 to 37-10-8 zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCTL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14.



4/25/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	R09	Piggyback Base	1	1	Job Reference (optional) # 58877

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:18:20 2025 Page 2
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- NOTES-** (10-14)
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 10) Trusses designed with 2018 IRC also comply with 2015 IRC.
 - 11) 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.
 - 12) 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.
 - 13) 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.
 - 14) 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.

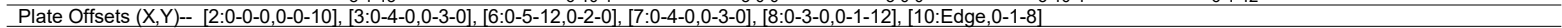
LOAD CASE(S) Standard



4/25/2025

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Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:18:21 2025 Page 1
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LUMBER- TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 *Except* B3: 2x4 SP No.1, B2: 2x4 SP SS WEBS 2x4 SP No.3 WEDGE Left: 2x4 SP No.3	BRACING- TOP CHORD Structural wood sheathing directly applied, except end verticals. BOT CHORD Rigid ceiling directly applied. Except: 3-1-0 oc bracing: 15-17 1 Row at midpt 3-18, 13-21 1 Brace at Jt(s): 21 WEBS JOINTS MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
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FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-2853/126, 3-25=-2280/135, 4-25=-2164/162, 4-5=-3198/404, 5-26=-2535/305,
6-26=-2535/305, 6-27=-2046/159, 7-27=-2145/133, 7-8=-2160/122, 8-10=-1733/122

BOT CHORD 2-28=-103/2431, 20-28=-103/2431, 20-29=-103/2428, 19-29=-103/2428, 18-19=-103/2428,
18-30=0/1831, 14-30=0/1831, 14-31=0/1831, 31-32=0/1831, 13-32=0/1831, 12-13=-24/1734,
12-33=-24/1734, 11-33=-24/1734

WEBS 2-3=0/313, 3-18=-694/2121, 17-18=-35/913, 4-17=0/1121, 4-21=-385/1973, 13-15=-352/105,
6-10=0/655, 7-11=-289/46, 8-11=0/1642, 5-21=-1755/263, 6-21=-126/926

4/25/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	R10	Roof Special	1	1	Job Reference (optional) # 58877

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- 10) Trusses designed with 2018 IRC also comply with 2015 IRC.
- 11) 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.
- 12) 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.
- 13) 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.
- 14) 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



4/25/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	R11	Roof Special	1	1	Job Reference (optional) # 58877

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ID:GHOhT5MOv4FkLKIPfX2c9QzXMNI-hTU_5imaQyzQsQSh4HlpodsxZOcL44DZid2ma_zMoBW

- 10) Trusses designed with 2018 IRC also comply with 2015 IRC.
- 11) 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.
- 12) 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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- 14) 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



4/25/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	R12	Roof Special	1	1	
Job Reference (optional)					# 58877

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-0-10-8 8-1-15 16-3-0 23-6-0 29-9-0 37-0-0 37-10-8
0-10-8 8-1-15 8-1-1 7-3-0 6-3-0 7-3-0 0-10-8

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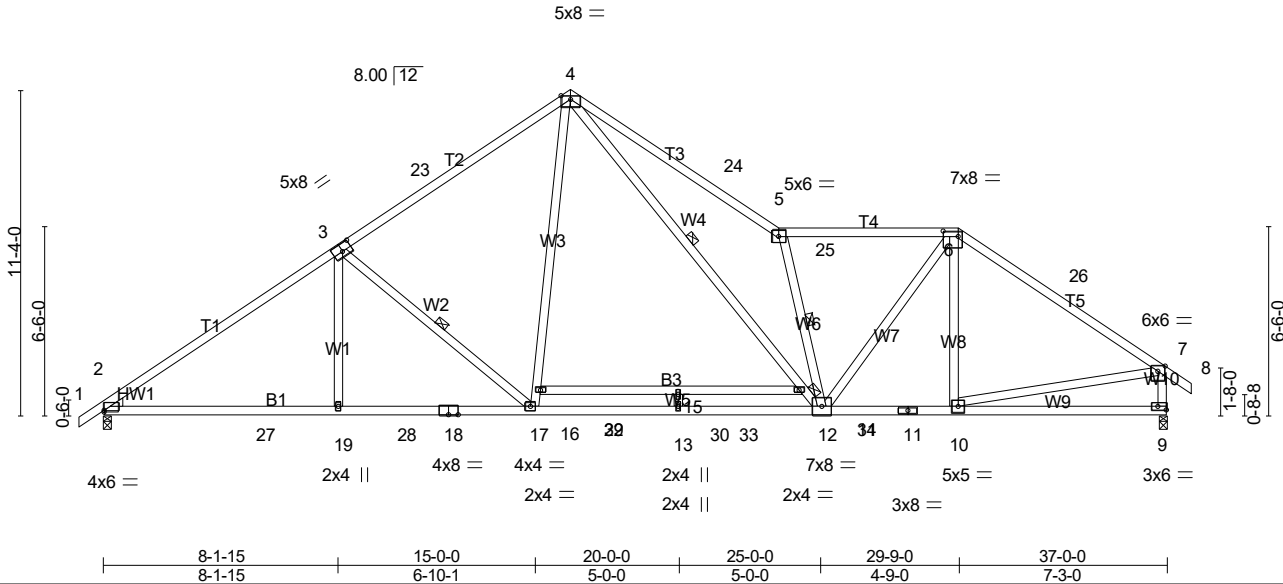


Plate Offsets (X,Y)--	[2:0-0-0,0-0-10], [3:0-4-0,0-3-0], [6:0-6-4,0-2-4], [9:Edge,0-1-8]
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LOADING (psf)	SPACING	CSI	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	TC 0.88	Vert(LL)	-0.67	15-16	>658	MT20	244/190
Snow (Pf)	20.0	BC 0.89	Vert(CT)	-1.07	15-16	>415		
TCDL	10.0	WB 0.74	Horz(CT)	0.09	9	n/a		
BCLL	0.0 *	Matrix-AS						
BCDL	10.0							
							Weight: 236 lb	FT = 20%

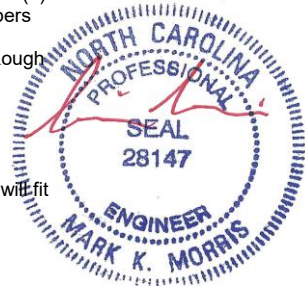
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except*	TOP CHORD Structural wood sheathing directly applied, except end verticals.
T3: 2x4 SP SS	BOT CHORD Rigid ceiling directly applied.
BOT CHORD 2x4 SP No.2 *Except*	WEBS 1 Row at midpt 3-17, 4-14, 5-12
B3,B2: 2x4 SP SS	
WEBS 2x4 SP No.3 *Except*	
W4: 2x4 SP No.2	
WEDGE	
Left: 2x4 SP No.3	

REACTIONS. (lb/size) 2=1613/0-3-8 (min. 0-2-4), 9=1636/0-3-8 (min. 0-2-2)
Max Horz2=240(LC 11)
Max Uplift2=-67(LC 12), 9=-92(LC 13)
Max Grav2=1914(LC 20), 9=1801(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2856/134, 3-23=-2281/145, 4-23=-2164/171, 4-24=-3759/342, 5-24=-3850/315,
5-25=-2544/139, 6-25=-2544/139, 6-26=-2101/132, 7-26=-2207/113, 7-9=-1716/138
BOT CHORD 2-27=-103/2434, 19-27=-103/2434, 19-28=-104/2431, 18-28=-104/2431, 17-18=-104/2431,
17-29=0/1731, 13-29=0/1731, 13-30=0/1731, 30-31=0/1731, 12-31=0/1731, 11-12=0/1741,
10-11=0/1741
WEBS 3-19=0/315, 3-17=-699/222, 16-17=-37/919, 4-16=0/1127, 4-14=-284/2336,
12-14=-329/2260, 5-12=-2461/312, 6-12=0/1357, 7-10=0/1590

- NOTES-** (10-14)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 11-5-6, Exterior(2R) 11-5-6 to 21-0-10, Interior(1) 21-0-10 to 24-11-6, Exterior(2R) 24-11-6 to 33-0-14, Exterior(2E) 33-0-14 to 37-10-8 zone; end vertical right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 9.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

Continued on page 2



4/25/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	R12	Roof Special	1	1	Job Reference (optional) # 58877

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:18:22 2025 Page 2
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- 10) Trusses designed with 2018 IRC also comply with 2015 IRC.
- 11) 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.
- 12) 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.
- 13) 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.
- 14) 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



4/25/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	R13	Roof Special	1	1	
Job Reference (optional)					# 58877

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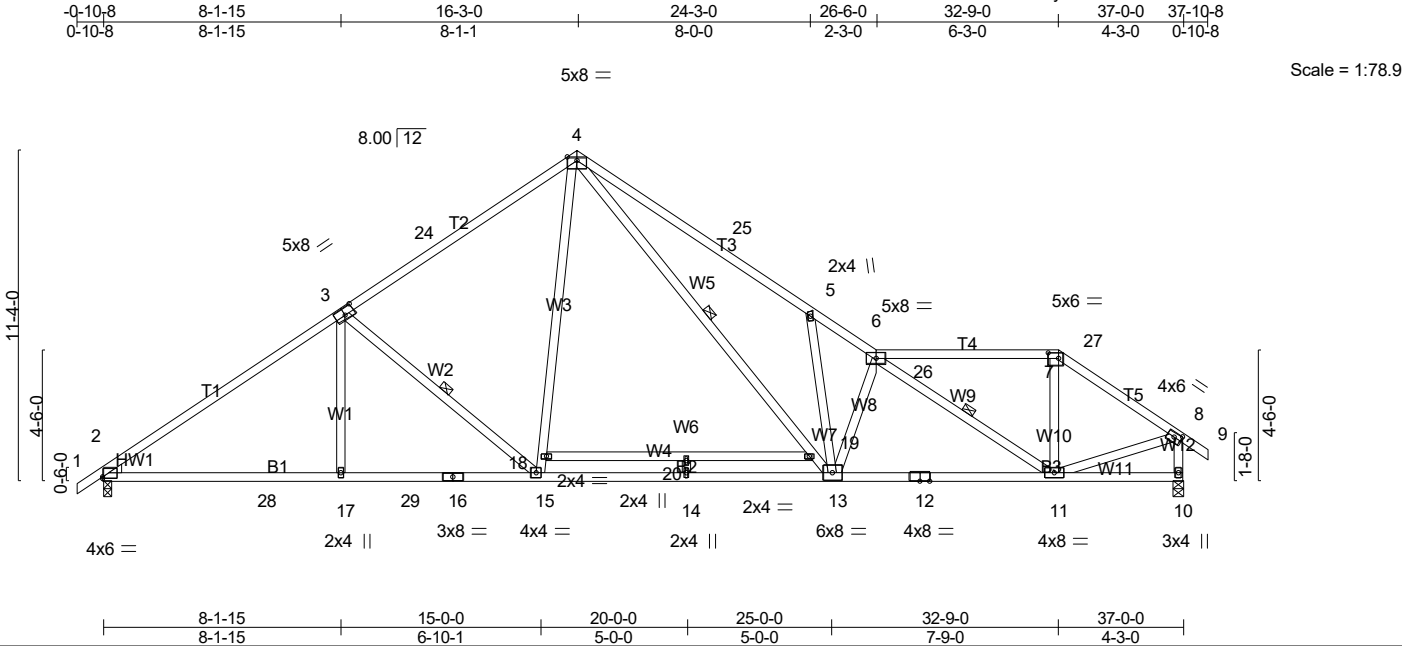


Plate Offsets (X,Y)-- [2:0-0-0,0-0-10], [3:0-4-0,0-3-0], [7:0-4-4,0-2-4], [8:0-2-14,0-2-0]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.66	in (loc)	l/defl	L/d	GRIP
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.83	Vert(LL)	-0.20 14	>999 240	MT20 244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.89	Vert(CT)	-0.48 14	>931 180	
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-AS		Horz(CT)	0.09 10	n/a n/a	
BCDL	10.0								Weight: 234 lb FT = 20%

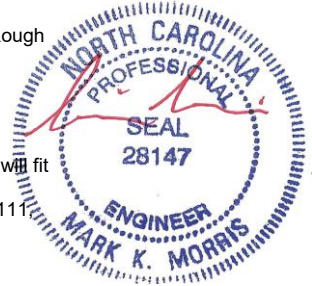
LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2 *Except*	TOP CHORD	Structural wood sheathing directly applied, except end verticals.
	T3: 2x4 SP SS	BOT CHORD	Rigid ceiling directly applied.
BOT CHORD	2x4 SP No.2	WEBS	1 Row at midpt 3-15, 4-13, 6-11
WEBS	2x4 SP No.3		
WEDGE			
Left: 2x4 SP No.3			

REACTIONS. (lb/size) 2=1526/0-3-8 (min. 0-1-13), 10=1536/0-3-8 (min. 0-1-13)
Max Horz2=240(LC 11)
Max Uplift2=111(LC 12), 10=-142(LC 13)
Max Grav2=1555(LC 20), 10=1536(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2248/198, 3-24=-1701/216, 4-24=-1560/243, 4-25=-2869/454, 5-25=-2999/427,
5-6=-2785/271, 6-26=-1349/163, 7-26=-1349/163, 7-27=-1526/165, 8-27=-1663/163,
8-10=-1502/157
BOT CHORD 2-28=-164/1930, 17-28=-165/1926, 16-29=-165/1926, 15-16=-165/1926,
14-15=0/1199, 13-14=0/1199, 12-13=-147/2620, 11-12=-147/2620
WEBS 3-17=0/414, 3-15=-773/213, 15-18=-56/667, 4-18=-49/677, 4-19=-370/1845,
13-19=-385/1878, 5-13=-496/268, 6-13=-885/127, 6-11=-1543/121, 7-11=0/565,
8-11=-59/1361

- NOTES-** (10-14)
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 11-5-6, Exterior(2R) 11-5-6 to 21-0-10, Interior(1) 21-0-10 to 27-11-6, Exterior(2R) 27-11-6 to 33-0-14, Exterior(2E) 33-0-14 to 37-10-8 zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 5) Provide adequate drainage to prevent water ponding.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=111, 10=142.
 - 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

Continued on page 2



4/25/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	R13	Roof Special	1	1	Job Reference (optional) # 58877

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- 10) Trusses designed with 2018 IRC also comply with 2015 IRC.
- 11) 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.
- 12) 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.
- 13) 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.
- 14) 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

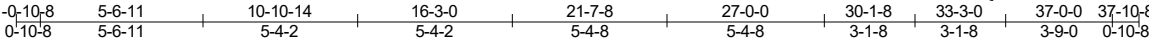


4/25/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	R14	Roof Special Girder	1	1	
Job Reference (optional)					# 58877

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5x6 = Scale = 1:79.5

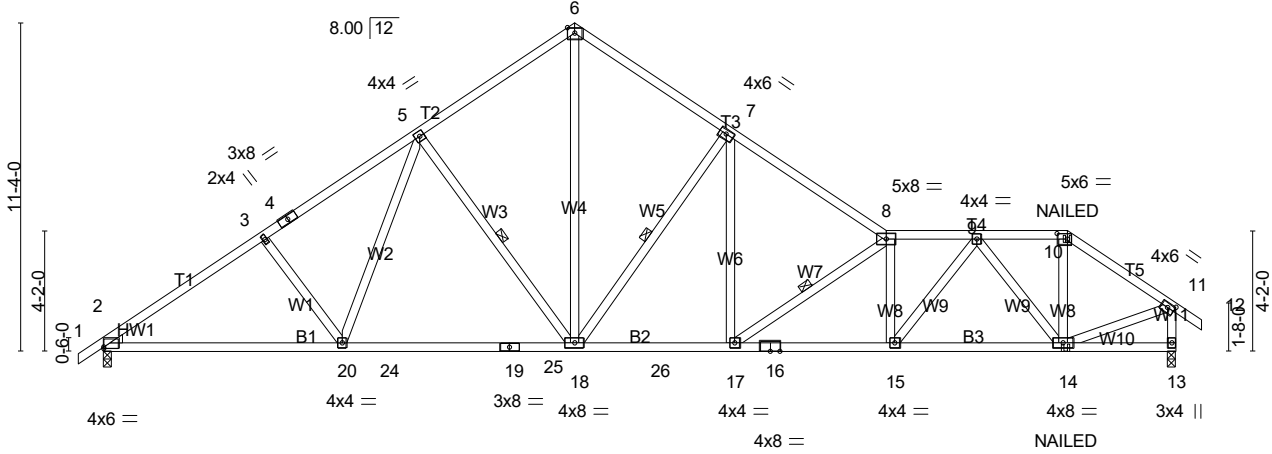


Plate Offsets (X,Y)--	[2:0-0-0,0-0-10], [10:0-4-4,0-2-4], [11:0-2-14,0-2-0]
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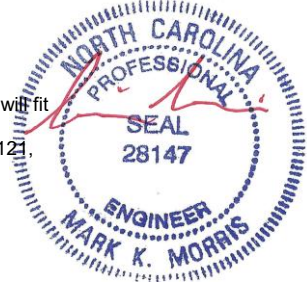
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL 1.15	TC	0.53			MT20	244/190
Snow (Pf)	20.0	Lumber DOL 1.15	BC	0.75				
TCDL	10.0	Rep Stress Incr NO	WB	0.62				
BCLL	0.0 *	Code IRC2021/TPI2014	Matrix-MSH					
BCDL	10.0							
							Weight: 236 lb	FT = 20%

LUMBER- TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.1 WEBS 2x4 SP No.3 WEDGE Left: 2x4 SP No.3	BRACING- TOP CHORD BOT CHORD WEBS	Structural wood sheathing directly applied or 3-5-2 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing. 1 Row at midpt 5-18, 7-18, 8-17
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.		

REACTIONS. (lb/size) 2=1526/0-3-8 (min. 0-1-13), 13=1535/0-3-8 (min. 0-1-13)
Max Horz 2=240(LC 35)
Max Uplift 2=-121(LC 10), 13=-220(LC 11)
Max Grav 2=1552(LC 42), 13=1535(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2330/180, 3-4=-2175/177, 4-5=-2105/205, 5-6=-1605/230, 6-7=-1631/216,
7-8=-2251/228, 8-9=-2731/296, 9-10=-1289/223, 10-11=-1591/237, 11-13=-1503/231
BOT CHORD 2-20=-215/2020, 20-24=-112/1704, 24-25=-112/1704, 19-25=-112/1704, 18-19=-112/1704,
18-26=-54/1865, 17-26=-54/1865, 16-17=-222/2758, 15-16=-222/2758, 14-15=-205/2083
WEBS 3-20=-259/152, 5-20=-44/498, 5-18=-599/191, 6-18=-163/1457, 7-18=-990/237,
7-17=-72/811, 8-17=-1185/207, 8-15=-760/98, 9-15=-47/1102, 9-14=-1303/119,
10-14=-21/668, 11-14=-131/1309

- NOTES-** (11-15)
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; end vertical right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 5) Provide adequate drainage to prevent water ponding.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=121, 13=220.
 - 9) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).



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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	R14	Roof Special Girder	1	1	Job Reference (optional) # 58877

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- 11) Trusses designed with 2018 IRC also comply with 2015 IRC.
- 12) 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.
- 13) 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.
- 14) 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.
- 15) 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

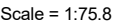
- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-6=-60, 6-8=-60, 8-10=-60, 10-11=-60, 11-12=-60, 13-21=-20
 - Concentrated Loads (lb)
 - Vert: 14=0(F)



4/25/2025

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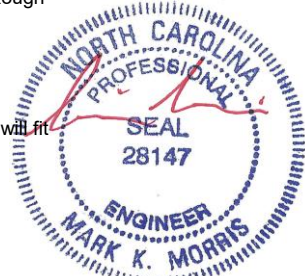
LUMBER- TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3	BRACING- TOP CHORD Structural wood sheathing directly applied, except end verticals. BOT CHORD Rigid ceiling directly applied. WEBS 1 Row at midpt 5-16, 7-16
	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

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

TOP CHORD	2-3=-2053/168, 3-4=-1897/167, 4-5=-1826/194, 5-22=-1349/191, 6-22=-1275/218, 6-23=-1280/218, 7-23=-1354/191, 7-8=-1794/190, 8-9=-1866/163, 9-10=-1798/145, 10-11=-1411/88, 11-12=-1255/94
BOT CHORD	2-18=-233/1774, 18-24=-128/1456, 24-25=-128/1456, 17-25=-128/1456, 16-17=-128/1456, 15-16=-60/1357, 15-26=-60/1357, 26-27=-60/1357, 14-27=-60/1357, 13-14=-110/1591
WEBS	3-18=-265/152, 5-18=-47/494, 5-16=-589/190, 6-16=-129/142, 7-16=-572/189, 7-14=-34/461, 10-13=-1056/114, 11-13=-109/1797

NOTES- (10-14)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCFL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 11-5-6, Exterior(2R) 11-5-6 to 21-0-10, Interior(1) 21-0-10 to 30-0-0, Exterior(2E) 30-0-0 to 32-4-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 2=106.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	R15	Roof Special	1	1	Job Reference (optional) # 58877

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- 10) Trusses designed with 2018 IRC also comply with 2015 IRC.
- 11) 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.
- 12) 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.
- 13) 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.
- 14) 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



4/25/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	R16	Common	2	1	
Job Reference (optional)					# 58877

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:18:25 2025 Page 1
ID: GH0hT5MOv4FkLKIPx2c9QzXMNI-aEjVw4p5UBTrL1mSJ7NlyT1ia0zf00N8dF0zjlzMoBS

0-10-8 5-6-11 10-10-14 16-3-0 21-7-2 26-11-5 32-6-0 33-4-8
0-10-8 5-6-11 5-4-2 5-4-2 5-4-2 5-4-2 5-6-11 0-10-8

4x6 = Scale = 1:72.2

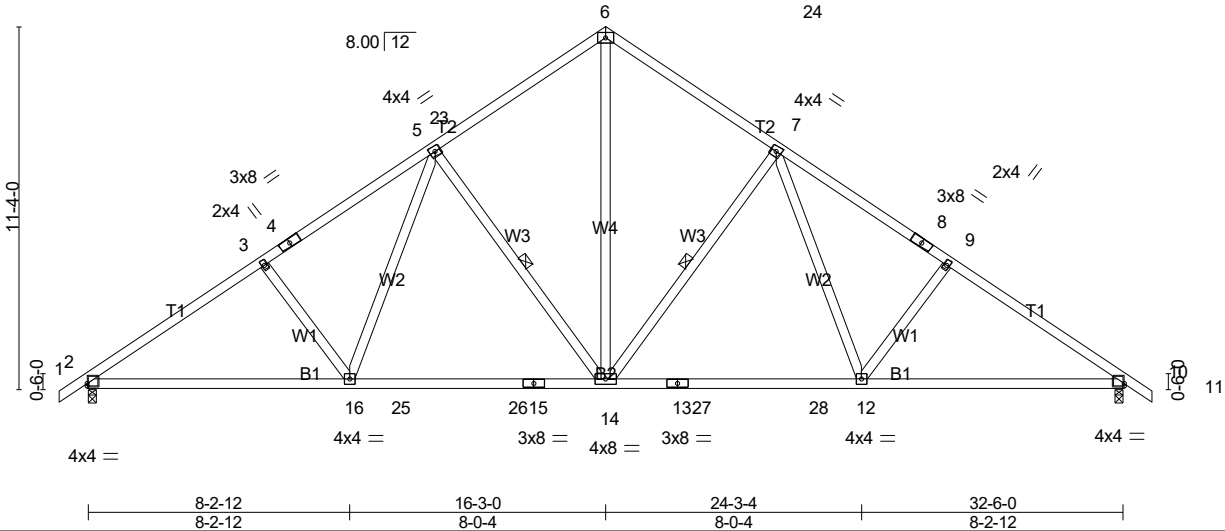


Plate Offsets (X,Y)-- [2:0-0-0,0-0-14], [10:0-0-0,0-0-14]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.32	in (loc)	l/defl	MT20	GRIP
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.91	Vert(LL)	-0.22 12-14 >999		244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.47	Vert(CT)	-0.35 12-14 >999		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-AS		Horz(CT)	0.08 10 n/a n/a		
BCDL	10.0							Weight: 188 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 7-14, 5-14

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

REACTIONS. (lb/size) 2=1352/0-3-8 (min. 0-1-10), 10=1352/0-3-8 (min. 0-1-10)
Max Horz2=-223(LC 10)
Max Uplift2=-107(LC 12), 10=-107(LC 13)
Max Grav2=1398(LC 20), 10=1398(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2061/170, 3-4=-1905/169, 4-5=-1834/196, 5-23=-1363/194, 6-23=-1289/220,
6-24=-1289/220, 7-24=-1363/194, 7-8=-1834/196, 8-9=-1906/169, 9-10=-2061/170
BOT CHORD 2-16=-197/1797, 16-25=-93/1480, 25-26=-93/1480, 15-26=-93/1480, 14-15=-93/1480,
13-14=-10/1387, 13-27=-10/1387, 27-28=-10/1387, 12-28=-10/1387, 10-12=-60/1630
WEBS 6-14=-132/1153, 7-14=-589/190, 7-12=-46/493, 9-12=-265/152, 5-14=-589/190,
5-16=-46/493, 3-16=-265/152

- NOTES-** (9-13)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 11-5-6, Exterior(2R) 11-5-6 to 21-0-10, Interior(1) 21-0-10 to 28-6-14, Exterior(2E) 28-6-14 to 33-4-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=107, 10=107.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Continued on page 2

4/25/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	R16	Common	2	1	Job Reference (optional) # 58877

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:18:25 2025 Page 2
ID:GHOt5MOv4FkLKIPx2c9QzXMNI-aEjVw4p5UBTrL1mSJ7NlyT1ia0zf00N8dF0zjlzMoBS

- 9) Trusses designed with 2018 IRC also comply with 2015 IRC.
- 10) 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.
- 11) 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.
- 12) 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.
- 13) 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.

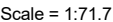
LOAD CASE(S) Standard



4/25/2025

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Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:18:25 2025 Page 1
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LUMBER- TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3	BRACING- TOP CHORD Structural wood sheathing directly applied. BOT CHORD Rigid ceiling directly applied. WEBS 1 Row at midpt 7-13, 5-13
	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2062/171, 3-4=-1906/170, 4-5=-1835/197, 5-22=-1365/194, 6-22=-1290/221,
6-23=-1290/221, 7-23=-1364/194, 7-8=-1838/199, 8-9=-1910/172, 9-10=-2066/173
BOT CHORD 2-15=-205/1792, 15-24=-100/1475, 24-25=-100/1475, 14-25=-100/1475, 13-14=-100/1475,
12-13=-23/1383, 12-26=-23/1383, 26-27=-23/1383, 11-27=-23/1383, 10-11=-86/1639
WEBS 6-13=-132/1154, 7-13=-591/191, 7-11=-48/498, 9-11=-268/153, 5-13=-589/190,
5-15=-46/493, 3-15=-265/152

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	R17	Common	1	1	Job Reference (optional) # 58877

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:18:25 2025 Page 2
ID:GHOHt5MOv4FkLKIPfX2c9QzXMNI-aEjVw4p5UBTrL1mSJ7NlyT1iZ0zg00N8dF0zjlzMoBS

- 9) Trusses designed with 2018 IRC also comply with 2015 IRC.
- 10) 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.
- 11) 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.
- 12) 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.
- 13) 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.

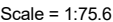
LOAD CASE(S) Standard



4/25/2025

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Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:18:26 2025 Page 1
ID:GH0hT5MOv4FkL KIPfX2c9QzXMNI-2QHt8QqiFV/bivBl etru VgZuOPJ2lPcIsvmXFbZMoBR



LUMBER- TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3	BRACING- TOP CHORD Structural wood sheathing directly applied, except end verticals. BOT CHORD Rigid ceiling directly applied. WEBS 1 Row at midpt 5-16, 7-16
	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

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

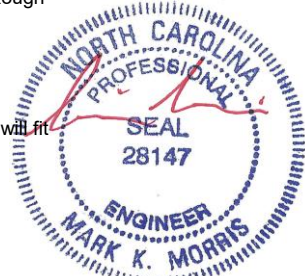
TOP CHORD 2-3=-2032/167, 3-4=-1877/166, 4-5=-1805/194, 5-22=-1330/190, 6-22=-1255/217, 6-23=-1259/217, 7-23=-1333/191, 7-8=-1738/188, 8-9=-1810/161, 9-10=-1497/129, 10-11=-1148/66, 11-12=-1253/77

BOT CHORD 2-18=-228/1759, 18-24=-123/1441, 24-25=-123/1441, 17-25=-123/1441, 16-17=-123/1441, 15-16=-51/1325, 15-26=-51/1325, 26-27=-51/1325, 14-27=-51/1325, 13-14=-101/1511

WEBS 3-18=-265/152, 5-18=-47/495, 5-16=-590/190, 6-16=-129/1119, 7-16=-545/187, 7-14=-33/417, 9-13=-430/45, 10-13=-886/108, 11-13=-88/1615

NOTES- (11-15)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 11-5-6, Exterior(2R) 11-5-6 to 21-0-10, Interior(1) 21-0-10 to 30-5-4, Exterior(2E) 30-5-4 to 32-0-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCTL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 2=106.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	R18	Roof Special	1	1	Job Reference (optional) # 58877

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- 11) Trusses designed with 2018 IRC also comply with 2015 IRC.
- 12) 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.
- 13) 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.
- 14) 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.
- 15) 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



4/25/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	R19	Roof Special	1	1	
Job Reference (optional)					# 58877

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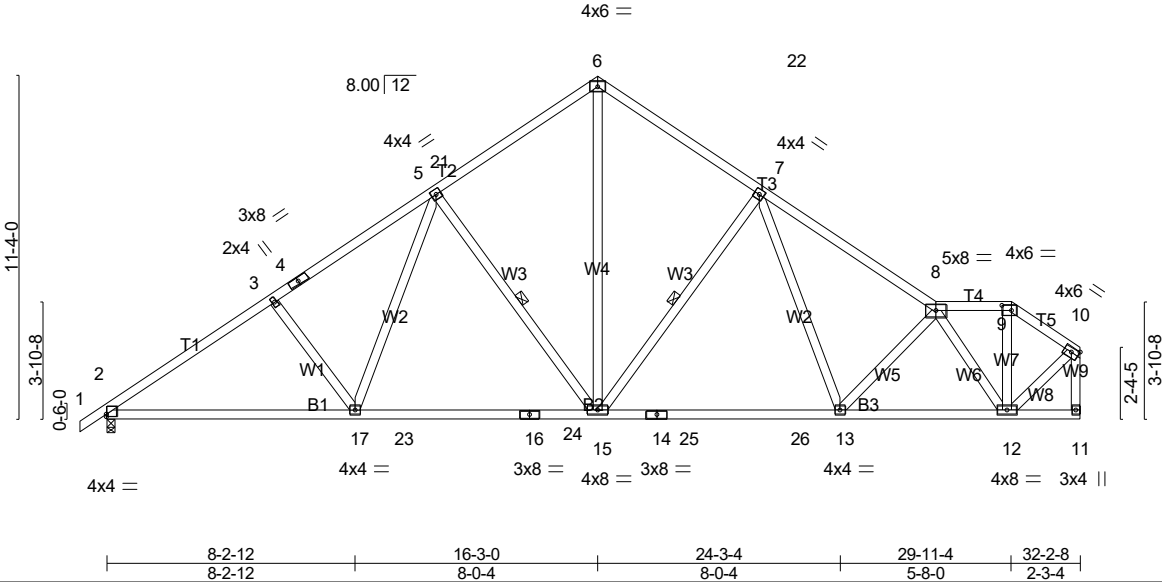


Plate Offsets (X,Y)--	[2:0-0-0,0-0-14], [9:0-3-12,0-2-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.35	Vert(LL) -0.22	15-17	>999	240	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.91	Vert(CT) -0.34	15-17	>999	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.49	Horz(CT) 0.07	11	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-AS						
BCDL 10.0	Code IRC2021/TPI2014						Weight: 203 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

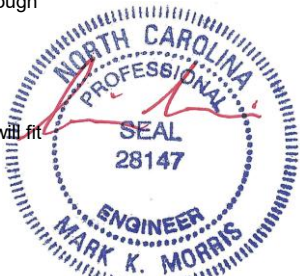
BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-15, 7-15

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

REACTIONS. (lb/size) 2=1336/0-3-8 (min. 0-1-10), 11=1282/Mechanical
Max Horz2=215(LC 9)
Max Uplift2=-105(LC 12), 11=-92(LC 13)
Max Grav2=1382(LC 20), 11=1289(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2033/168, 3-4=-1877/167, 4-5=-1806/194, 5-21=-1320/191, 6-21=-1245/218,
6-22=-1321/219, 7-22=-1336/192, 7-8=-1763/185, 8-9=-764/84, 9-10=-938/86,
10-11=-1258/103
BOT CHORD 2-17=-237/1756, 17-23=-132/1437, 23-24=-132/1437, 16-24=-132/1437, 15-16=-132/1437,
14-15=-68/1324, 14-25=-68/1324, 25-26=-68/1324, 13-26=-68/1324, 12-13=-117/1469
WEBS 3-17=-265/152, 5-17=-47/494, 5-15=-590/191, 6-15=-132/1124, 7-15=-537/188,
7-13=-17/356, 8-12=-1286/123, 9-12=-19/428, 10-12=-62/1003

- NOTES-** (11-15)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 11-5-6, Exterior(2R) 11-5-6 to 21-0-10, Interior(1) 21-0-10 to 27-5-4, Exterior(2R) 27-5-4 to 29-11-4, Exterior(2E) 29-11-4 to 32-0-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 2=105.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Continued on page 2

4/25/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	R19	Roof Special	1	1	Job Reference (optional) # 58877

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:18:27 2025 Page 2
ID:GH0hT5MOv4FkLKIPfX2c9QzXMNI-WdrGLiQl0ojZaLwrQYPD1u62jpeFUvZR5ZV4ndzM0BQ

- 11) Trusses designed with 2018 IRC also comply with 2015 IRC.
- 12) 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.
- 13) 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.
- 14) 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.
- 15) 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.

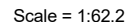
LOAD CASE(S) Standard



4/25/2025

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LUMBER- TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3	BRACING- TOP CHORD Structural wood sheathing directly applied, except end verticals. BOT CHORD Rigid ceiling directly applied. WEBS 1 Row at midpt 4-12 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
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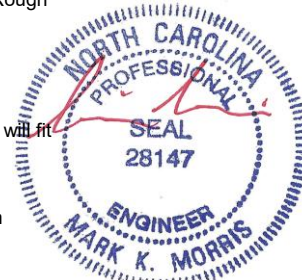
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-2012/188, 3-19=-1547/191, 4-19=-1454/223, 4-5=-1183/226, 5-20=-1465/224, 6-20=-1479/196, 6-7=-1072/153, 7-21=-1204/148, 8-21=-1347/146, 8-9=-1252/133

BOT CHORD 2-22=-169/1676, 15-22=-169/1676, 15-23=-169/1673, 14-23=-169/1673, 13-14=-50/1213, 13-24=-50/1213, 12-24=-50/1213, 11-12=-115/1377, 11-25=-115/1377, 25-26=-115/1377, 10-26=-115/1377

WEBS 3-15=0/262, 3-14=-562/170, 4-14=-38/580, 5-12=-16/505, 6-12=-311/138, 6-10=-787/118, 7-10=-16/510, 8-10=-59/1094

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TC DL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 8-5-6, Exterior(2R) 8-5-6 to 24-0-10, Interior(1) 24-0-10 to 24-5-4, Exterior(2R) 24-5-4 to 27-3-2, Exterior(2E) 27-3-2 to 32-0-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15) Plate DOL=1.15; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 9.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



4/25/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	R20	Roof Special	1	1	Job Reference (optional) # 58877

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- 11) Trusses designed with 2018 IRC also comply with 2015 IRC.
- 12) 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.
- 13) 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.
- 14) 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.
- 15) 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



4/25/2025

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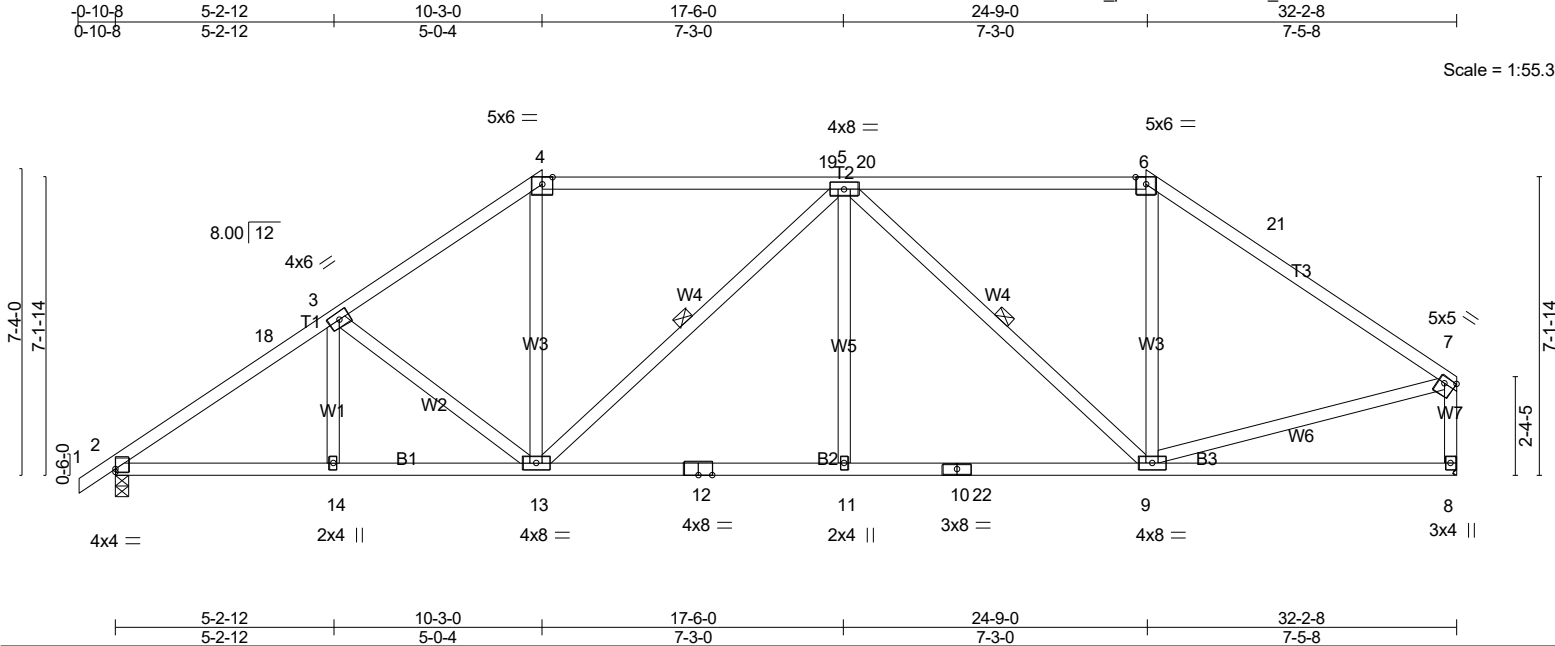


Plate Offsets (X,Y)-- [2:0-0-0,0-0-14], [7:Edge,0-1-12]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.79	in (loc)	l/defl	L/d	GRIP
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.82	Vert(LL)	-0.13 11-13	>999	240
TCDL	10.0	Rep Stress Incr	YES	WB	0.44	Vert(CT)	-0.25 11-13	>999	180
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-AS		Horz(CT)	0.07 8	n/a	n/a
BCDL	10.0								
								Weight: 189 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 5-13, 5-9
		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.	

REACTIONS. (lb/size) 2=1336/0-3-8 (min. 0-1-9), 8=1282/Mechanical
Max Horz2=138(LC 12)
Max Uplift2=-74(LC 12), 8=-35(LC 13)
Max Grav2=1336(LC 1), 8=1286(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-18=-1955/189, 3-18=-1838/203, 3-4=-1699/225, 4-19=-1362/223, 5-19=-1362/222,
5-20=-1126/190, 6-20=-1126/190, 6-21=-1314/171, 7-21=-1445/151, 7-8=-1220/147
BOT CHORD 2-14=-174/1551, 13-14=-174/1551, 12-13=-125/1680, 11-12=-125/1680, 10-11=-125/1680,
10-22=-125/1680, 9-22=-125/1680
WEBS 3-13=-299/132, 4-13=-7/600, 5-13=-511/130, 5-11=0/499, 5-9=-812/132, 6-9=0/441,
7-9=-68/1073

- NOTES-** (11-15)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Exterior(2R) 3-11-2 to 17-0-7, Interior(1) 17-0-7 to 17-11-9, Exterior(2R) 17-11-9 to 27-3-2, Exterior(2E) 27-3-2 to 32-0-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Continued on page 2

4/25/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	R21	Hip	1	1	Job Reference (optional) # 58877

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- 11) Trusses designed with 2018 IRC also comply with 2015 IRC.
- 12) 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.
- 13) 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.
- 14) 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.
- 15) 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

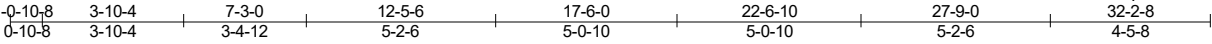


4/25/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	R22	Hip Girder	1	1	
Job Reference (optional)					# 58877

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Scale: 3/16"=1'

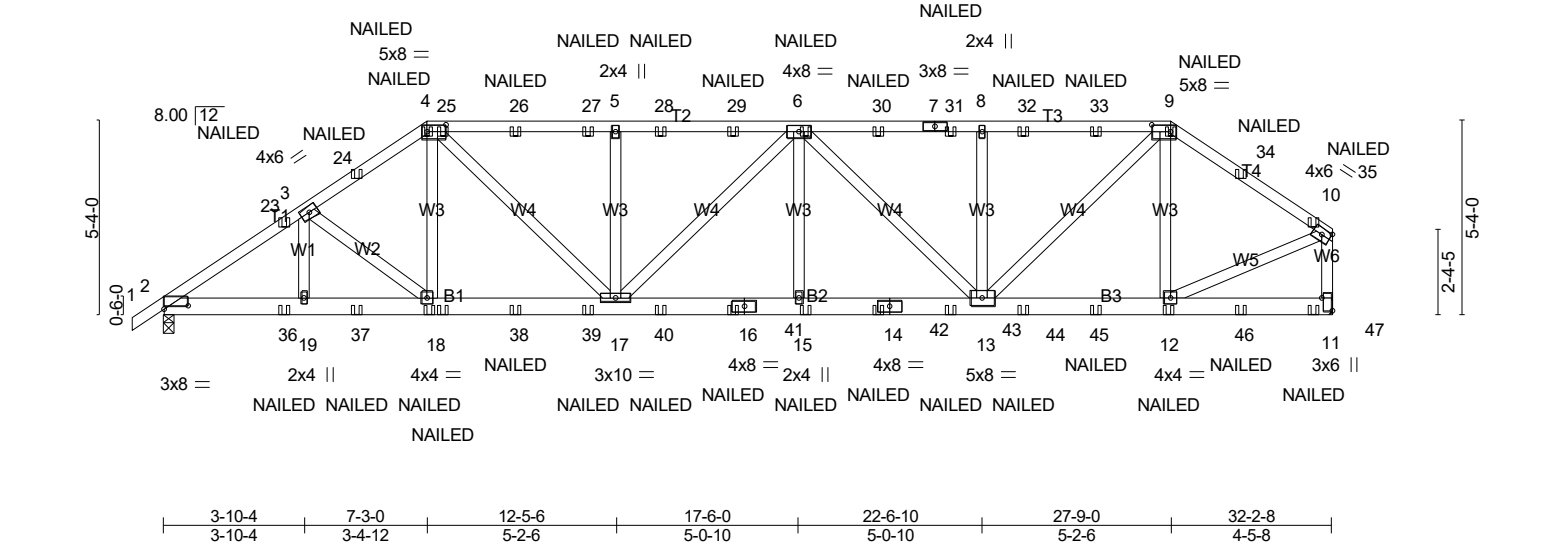


Plate Offsets (X,Y)--		[2:0-8-0,0-1-2], [4:0-6-4,0-2-4], [9:0-6-4,0-2-4], [11:Edge,0-3-8]	
LOADING (psf)		SPACING-	
TCLL (roof)	20.0	2-0-0	CSI.
Snow (Pf)	20.0	Plate Grip DOL 1.15	TC 0.75
TCDL	10.0	Lumber DOL 1.15	BC 0.66
BCLL	0.0 *	Rep Stress Incr NO	WB 0.73
BCDL	10.0	Code IRC2021/TPI2014	Matrix-MSH
		DEFL.	
		in (loc)	l/defl
		Vert(LL)	0.20 15-17 >999 240
		Vert(CT)	-0.28 15-17 >999 180
		Horz(CT)	0.07 11 n/a n/a
		PLATES	
		MT20	
		GRIP	
		244/190	
		Weight: 221 lb FT = 20%	

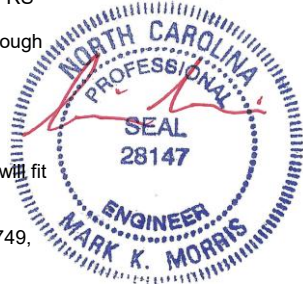
LUMBER-		BRACING-	
TOP CHORD 2x4 SP No.2		TOP CHORD	
BOT CHORD 2x6 SP No.2		BOT CHORD	
WEBS 2x4 SP No.3		Structural wood sheathing directly applied or 2-7-5 oc purlins, except end verticals.	
		Rigid ceiling directly applied or 6-0-15 oc bracing.	
		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.	

REACTIONS. (lb/size) 2=1985/0-3-8 (min. 0-2-5), 11=2001/Mechanical
Max Horz 2=113(LC 10)
Max Uplift 2=-749(LC 10), 11=-806(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-23=-3090/1258, 3-23=-2962/1241, 3-24=-2816/1266, 4-24=-2705/1266, 4-25=-3065/1445, 25-26=-3065/1445, 26-27=-3065/1445, 5-27=-3065/1445, 5-28=-3065/1445, 28-29=-3065/1445, 6-29=-3065/1445, 6-30=-2670/1255, 7-30=-2670/1255, 7-31=-2670/1255, 8-31=-2670/1255, 8-32=-2670/1255, 32-33=-2670/1255, 9-33=-2670/1255, 9-34=-1815/832, 34-35=-1888/821, 10-35=-1935/825, 10-11=-1883/794
BOT CHORD 2-36=-1101/2514, 19-36=-1101/2514, 19-37=-1101/2514, 18-37=-1101/2514, 18-38=-1078/2301, 38-39=-1078/2301, 17-39=-1078/2301, 17-40=-1500/3177, 40-41=-1500/3177, 16-41=-1500/3177, 15-16=-1500/3177, 15-42=-1500/3177, 14-42=-1500/3177, 14-43=-1500/3177, 13-43=-1500/3177, 13-44=-670/1507, 44-45=-670/1507, 12-45=-670/1507
WEBS 3-18=-283/88, 4-18=-108/473, 4-17=-552/1081, 5-17=-468/335, 6-15=-6/309, 6-13=-718/351, 8-13=-462/329, 9-13=-801/1620, 9-12=-458/285, 10-12=-741/1616

- NOTES- (12-16)
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 5) Provide adequate drainage to prevent water ponding.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - 8) Refer to girder(s) for truss to truss connections.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=749, 11=806.
 - 10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.

Continued on page 2



4/25/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	R22	Hip Girder	1	1	Job Reference (optional) # 58877

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- NOTES-** (12-16)
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
 - 12) Trusses designed with 2018 IRC also comply with 2015 IRC.
 - 13) 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.
 - 14) 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.
 - 15) 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.
 - 16) 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

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-4=-60, 4-9=-60, 9-10=-60, 11-20=-20
 - Concentrated Loads (lb)
 - Vert: 4=-49(F) 9=-49(F) 18=-61(F) 15=-31(F) 6=-49(F) 12=-31(F) 23=-60(F) 24=-15(F) 25=-49(F) 26=-49(F) 27=-49(F) 28=-49(F) 29=-49(F) 30=-49(F) 31=-49(F) 32=-49(F) 33=-49(F) 34=-15(F) 35=-58(F) 36=-66(F) 37=-74(F) 38=-31(F) 39=-31(F) 40=-31(F) 41=-31(F) 42=-31(F) 43=-31(F) 44=-31(F) 45=-31(F) 46=-74(F) 47=-51(F)



4/25/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	R23	Common Supported Gable	1	1	
Job Reference (optional)					# 58877

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:18:29 2025 Page 1
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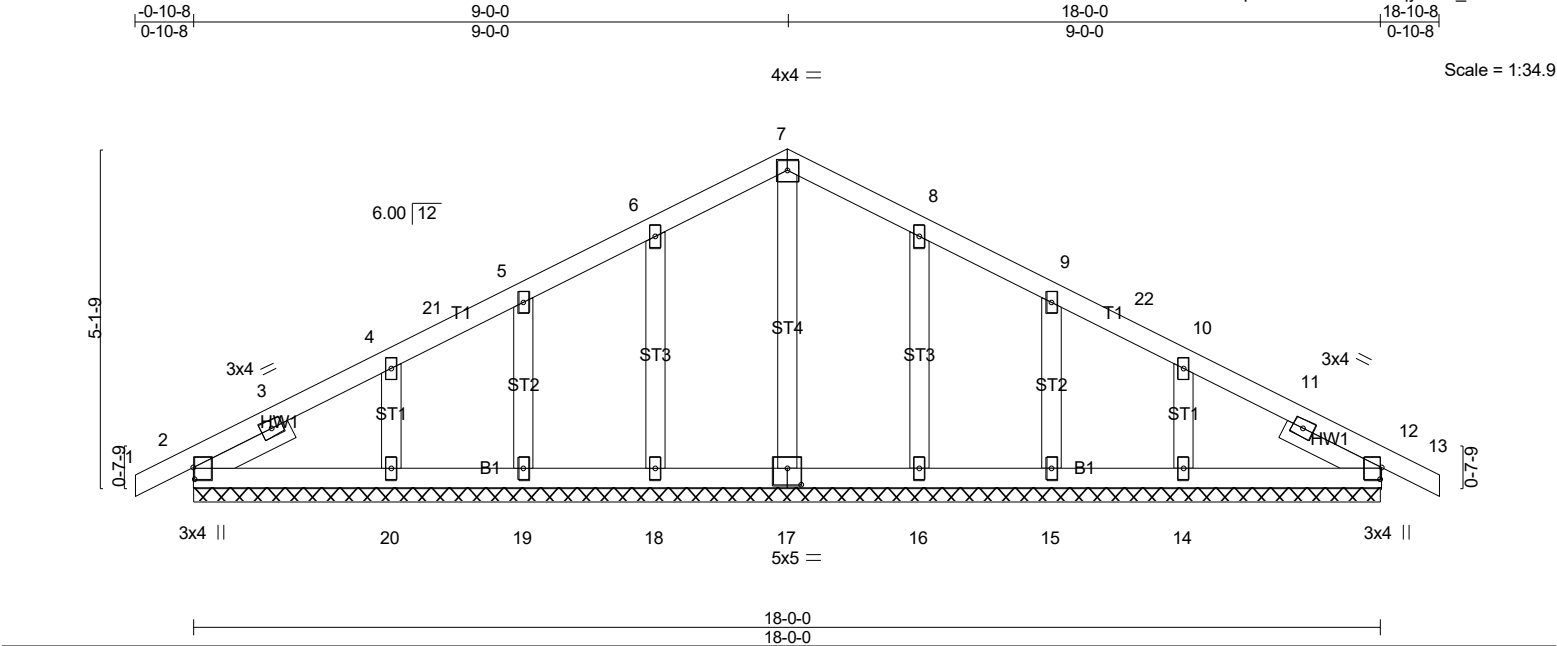


Plate Offsets (X,Y)-- [2:0-2-2,0-0-4], [12:0-2-2,0-0-4], [17:0-2-8,0-3-0]							
LOADING (psf)		SPACING-		CSI.		DEFL.	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	in (loc)	l/defl
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.07	Vert(LL)	L/d
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Vert(CT)	
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-S		Horz(CT)	
BCDL	10.0						
				PLATES		GRIP	
				MT20		244/190	
				Weight: 95 lb		FT = 20%	

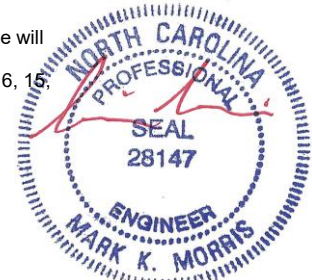
LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x4 SP No.3		
SLIDER	Left 2x4 SP No.3 1-7-3, Right 2x4 SP No.3 1-7-3		

REACTIONS. All bearings 18-0-0.
(lb) - Max Horz 2=65(LC 14)
Max Uplift All uplift 100 lb or less at joint(s) 2, 18, 19, 20, 16, 15, 14, 12
Max Grav All reactions 250 lb or less at joint(s) 2, 17, 18, 19, 20, 16, 15, 14, 12

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

- NOTES-** (13)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 3-11-2, Corner(3R) 3-11-2 to 14-0-14, Corner(3E) 14-0-14 to 18-10-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 18, 19, 20, 16, 15, 14, 12.
 - Trusses designed with 2018 IRC also comply with 2015 IRC.

LOAD CASE(S) Standard

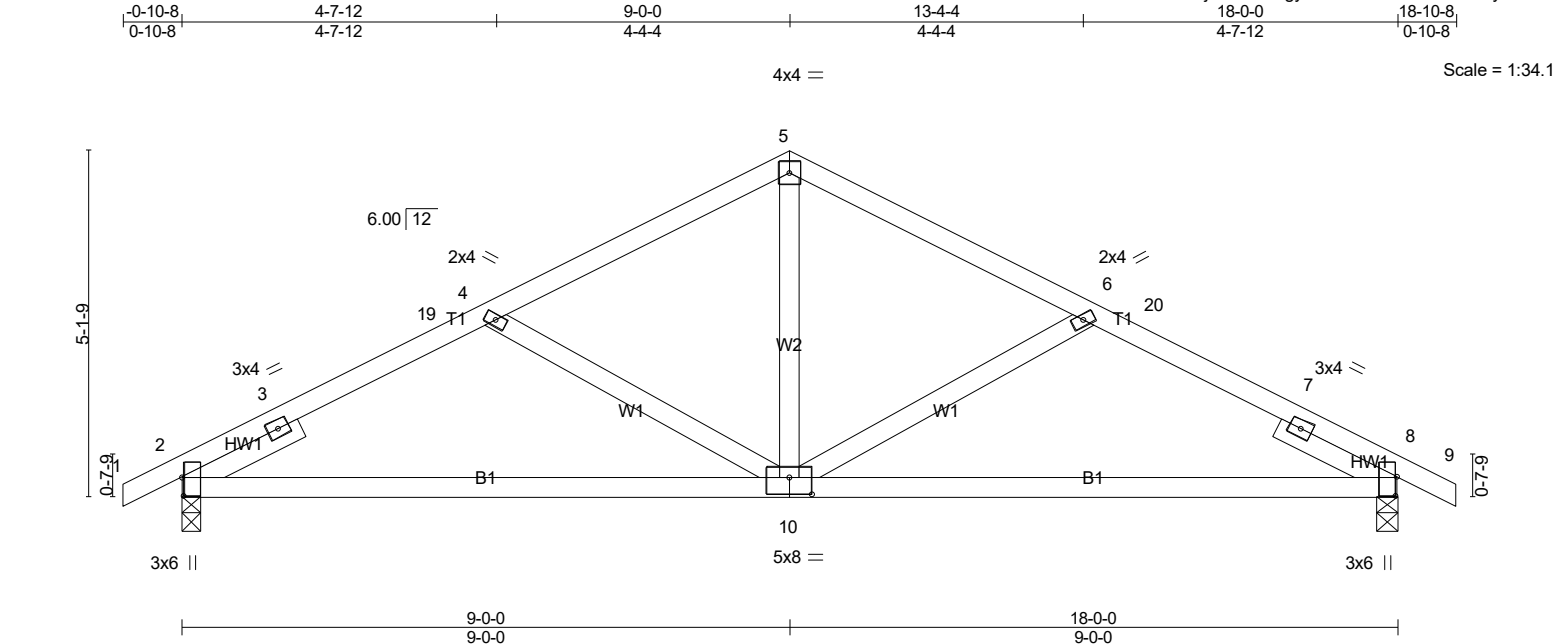


4/25/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	R24	Common	1	1	
Job Reference (optional)					# 58877

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:18:30 2025 Page 1
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LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	-0.08	10-13	>999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.17	10-13	>999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.02	8	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-AS						Weight: 87 lb	FT = 20%
BCDL	10.0										

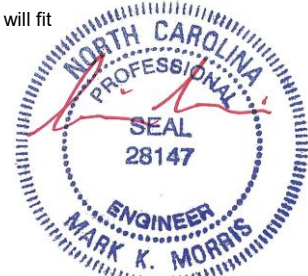
LUMBER-		BRACING-		Structural wood sheathing directly applied. Rigid ceiling directly applied. MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
TOP CHORD	2x4 SP No.2	TOP CHORD		
BOT CHORD	2x4 SP No.2	BOT CHORD		
WEBS	2x4 SP No.3			
SLIDER	Left 2x4 SP No.3 1-11-0, Right 2x4 SP No.3 1-11-0			

REACTIONS. (lb/size) 2=773/0-3-8 (min. 0-1-8), 8=773/0-3-8 (min. 0-1-8)
Max Horz2=65(LC 14)
Max Uplift2=-71(LC 14), 8=-71(LC 15)
Max Grav2=820(LC 21), 8=820(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-777/0, 3-19=-1124/256, 4-19=-1114/270, 4-5=-888/212, 5-6=-888/212,
6-20=-1114/270, 7-20=-1124/256, 7-8=-777/0
BOT CHORD 2-10=-162/1037, 8-10=-162/1037
WEBS 5-10=-49/485, 6-10=-378/141, 4-10=-378/141

- NOTES-** (10)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Exterior(2R) 3-11-2 to 14-0-14, Exterior(2E) 14-0-14 to 18-10-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Trusses designed with 2018 IRC also comply with 2015 IRC.

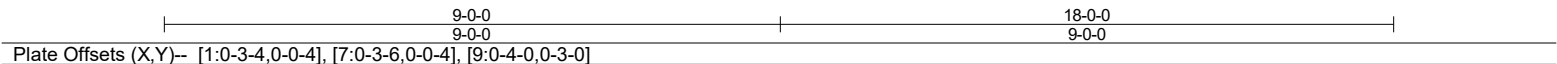
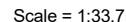
LOAD CASE(S) Standard



4/25/2025

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LUMBER- TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 SLIDER Left 2x4 SP No.3 1-11-0, Right 2x4 SP No.3 1-11-0	BRACING- TOP CHORD Structural wood sheathing directly applied. BOT CHORD Rigid ceiling directly applied.
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.	

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

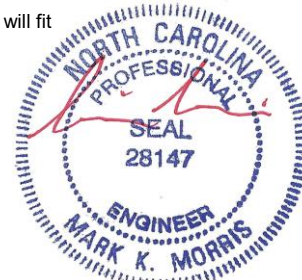
TOP CHORD 1-2=-802/4, 2-18=-1130/256, 3-18=-1121/269, 3-19=-891/191, 4-19=-878/211,
4-5=-889/211, 5-20=-1116/269, 6-20=-1125/256, 6-7=-777/0

BOT CHORD 1-9=-161/1045, 7-9=-162/1038

WEBS 4-9=-49/486, 5-9=-378/141, 3-9=-384/140

NOTES- (10-14)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCFL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 4-9-10, Exterior(2R) 4-9-10 to 14-0-14, Exterior(2E) 14-0-14 to 18-10-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Continued on page 2

4/25/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	R24A	Common	3	1	Job Reference (optional) # 58877

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:18:30 2025 Page 2
ID:GH0hT5MOv4FkLKIPX2c9QzXMNI-wBWOzntEJj58RoeQ6gywWkZB1kxhKrunXkkOyzMoBN

- 10) Trusses designed with 2018 IRC also comply with 2015 IRC.
- 11) 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.
- 12) 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.
- 13) 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.
- 14) 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



4/25/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	R24B	COMMON	2	1	
Job Reference (optional)					# 58877

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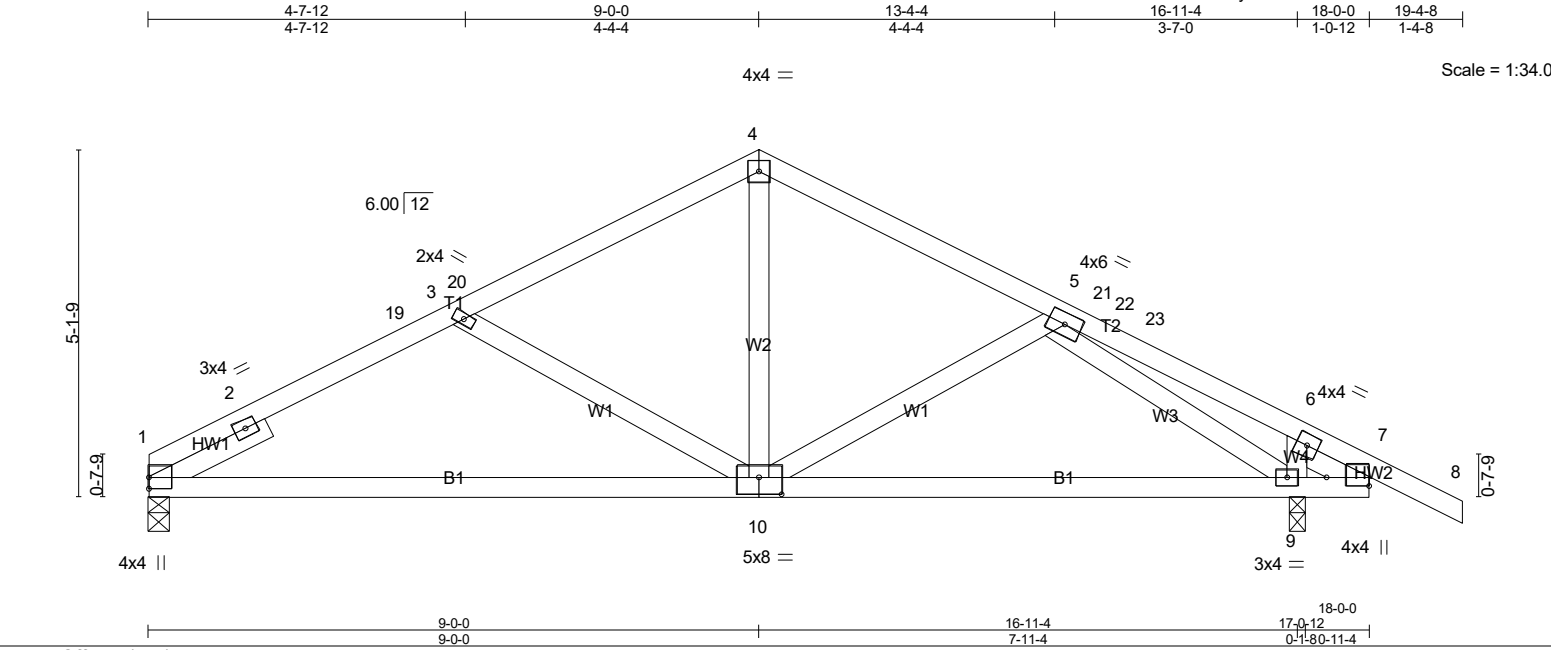


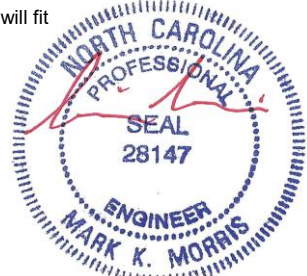
Plate Offsets (X,Y)-- [7:Edge,0-7-8], [10:0-4-0,0-3-0]													
LOADING (psf)			SPACING-			CSI.		DEFL.			PLATES		GRIP
TCLL (roof)	20.0		2-0-0			TC	0.32	in (loc)	l/defl	L/d	MT20	244/190	
Snow (Pf)	20.0		Plate Grip DOL	1.15		BC	0.61	Vert(LL)	-0.09 10-13	>999	240		
TCDL	10.0		Lumber DOL	1.15		WB	0.39	Vert(CT)	-0.19 10-13	>999	180		
BCLL	0.0 *		Rep Stress Incr	YES				Horz(CT)	0.02 9	n/a	n/a		
BCDL	10.0		Code IRC2021/TPI2014			Matrix-AS							
											Weight: 92 lb	FT = 20%	

LUMBER-		BRACING-		Structural wood sheathing directly applied. Rigid ceiling directly applied. MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
TOP CHORD	2x4 SP No.2	TOP CHORD		
BOT CHORD	2x4 SP No.2	BOT CHORD		
WEBS	2x4 SP No.3			
SLIDER	Left 2x4 SP No.3 1-11-0, Right 2x4 SP No.3 1-0-6			

REACTIONS. (lb/size) 1=666/0-3-8 (min. 0-1-8), 9=856/0-3-0 (min. 0-1-8)
Max Horz 1=-77(LC 19)
Max Uplift 1=-55(LC 14), 9=-85(LC 15)
Max Grav 1=725(LC 21), 9=906(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-808/0, 2-19=-1049/227, 3-19=-1039/240, 3-20=-804/161, 4-20=-791/181,
4-5=-771/182, 6-7=-141/314
BOT CHORD 1-10=-125/974, 9-10=-74/755
WEBS 3-10=-394/143, 4-10=-26/409, 5-9=-979/304

- NOTES-** (10-14)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 4-9-10, Exterior(2R) 4-9-10 to 13-9-10, Interior(1) 13-9-10 to 14-6-14, Exterior(2E) 14-6-14 to 19-4-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Continued on page 2

4/25/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	R24B	COMMON	2	1	Job Reference (optional) # 58877

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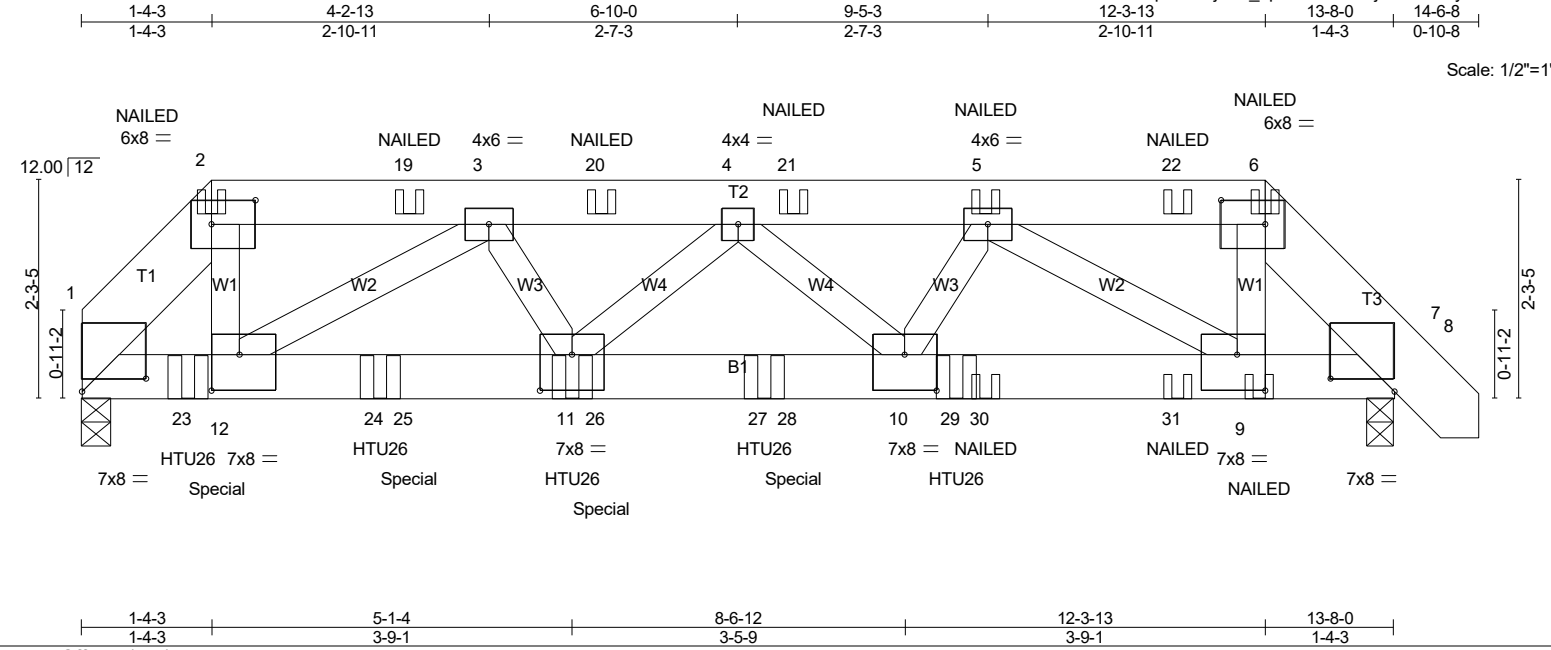
- 10) Trusses designed with 2018 IRC also comply with 2015 IRC.
- 11) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
- 12) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
- 13) 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.
- 14) 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



4/25/2025

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LUMBER-		BRACING-	
TOP CHORD 2x8 SP No.2 *Except*		TOP CHORD Structural wood sheathing directly applied or 5-1-9 oc purlins.	
T2: 2x6 SP No.2		BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.	
BOT CHORD 2x6 SP No.1			
WEBS 2x4 SP No.3			

REACTIONS. (lb/size) 1=4774/0-3-8 (min. 0-2-13), 7=3463/0-3-8 (min. 0-2-1)
Max Horz 1=-39(LC 8)
Max Uplift1=-615(LC 7), 7=-733(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-5554/743, 2-19=-3893/530, 3-19=-3893/530, 3-20=-8617/1282, 4-20=-8617/1282,
4-21=-8458/1742, 5-21=-8458/1742, 5-22=-2925/679, 6-22=-2925/679, 6-7=-4201/972
BOT CHORD 1-23=-489/3576, 12-23=-489/3576, 12-24=-1118/7462, 24-25=-1118/7462, 11-25=-1118/7462,
11-26=-1552/8682, 26-27=-1552/8682, 27-28=-1552/8682, 10-28=-1552/8682,
10-29=-1487/7104, 29-30=-1487/7104, 30-31=-1487/7104, 9-31=-1487/7104, 7-9=-610/2691
WEBS 2-12=-490/3963, 6-9=-652/2923, 3-12=-4282/718, 3-11=-383/2686, 4-11=-270/401,
4-10=-436/99, 5-10=-580/3147, 5-9=-5013/989

NOTES- (16)

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-5-0 oc, Except member 9-6 2x4 - 1 row at 0-9-0 oc, member 12-3 2x4 - 1 row at 0-9-0 oc, member 3-11 2x4 - 1 row at 0-9-0 oc, member 11-4 2x4 - 1 row at 0-9-0 oc, member 4-10 2x4 - 1 row at 0-9-0 oc, member 10-5 2x4 - 1 row at 0-9-0 oc, member 5-9 2x4 - 1 row at 0-9-0 oc.

2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

3) Unbalanced roof live loads have been considered for this design.

4) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60

5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.

7) Provide adequate drainage to prevent water ponding.

8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

9) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=615, 7=733.

Continued on page 2



Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	R25	Hip Girder	1	2	Job Reference (optional) # 58877

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NOTES- (16)

- 11) Use Simpson Strong-Tie HTU26 (10-16d Girder, 14-10dx1 1/2 Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-1-4 from the left end to 7-1-4 to connect truss(es) R18 (1 ply 2x4 SP), R19 (1 ply 2x4 SP), R20 (1 ply 2x4 SP), R21 (1 ply 2x4 SP) to front face of bottom chord.
- 12) Use Simpson Strong-Tie HTU26 (20-10d Girder, 14-10dx1 1/2 Truss, Single Ply Girder) or equivalent at 9-1-4 from the left end to connect truss(es) R22 (1 ply 2x6 SP) to front face of bottom chord.
- 13) Fill all nail holes where hanger is in contact with lumber.
- 14) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 18 lb down and 3 lb up at 1-4-15, 18 lb down and 3 lb up at 3-4-15, and 18 lb down and 3 lb up at 5-4-15, and 18 lb down and 3 lb up at 7-4-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 16) Trusses designed with 2018 IRC also comply with 2015 IRC.

LOAD CASE(S) Standard

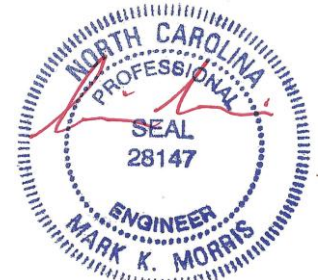
- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-60, 2-6=-60, 6-8=-60, 13-16=-20

Concentrated Loads (lb)

Vert: 2=-2(B) 6=-2(B) 12=-8(B) 9=-8(B) 11=-1262(F) 5=-2(B) 19=-2(B) 20=-2(B) 21=-2(B) 22=-2(B) 23=-1262(F) 24=-1262(F) 25=-8(B) 26=-8(B) 27=-1262(F) 28=-8(B) 29=-1981(F) 30=-8(B) 31=-8(B)



4/25/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	R26	GABLE	1	1	
Job Reference (optional)					# 58877

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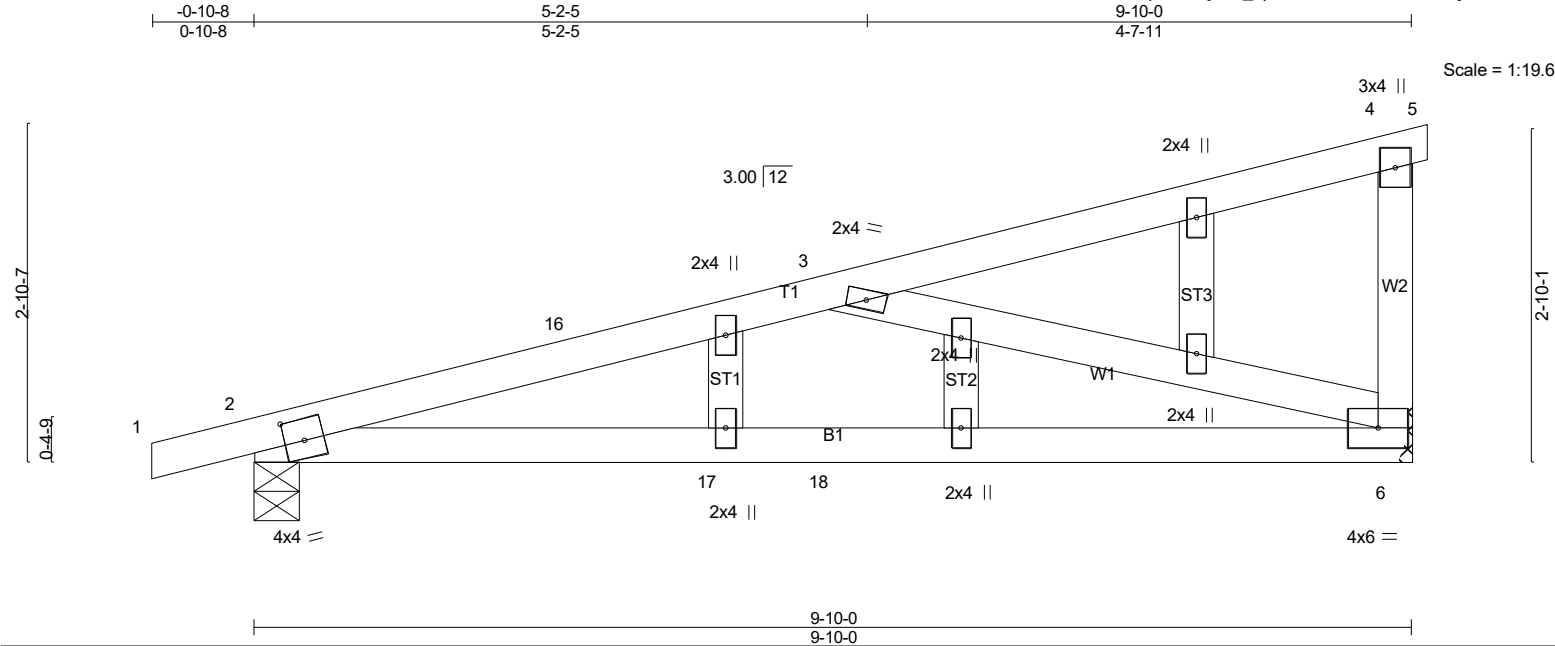


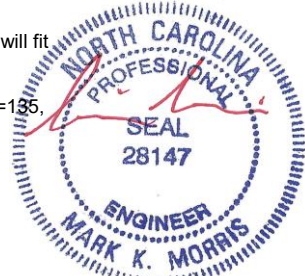
Plate Offsets (X,Y)-- [2:0-2-0,0-2-3]		9-10-0 9-10-0	
LOADING (psf)	SPACING	CSI	DEFL.
TCLL (roof) 20.0	2-0-0	TC 0.74	in (loc) l/defl L/d
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.65	Vert(LL) 0.34 6-15 >346 240
TCDL 10.0	Lumber DOL 1.15	WB 0.41	Vert(CT) -0.35 6-15 >336 180
BCLL 0.0 *	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.01 6 n/a n/a
BCDL 10.0	Code IRC2021/TPI2014		
			PLATES MT20
			GRIP 244/190
			Weight: 46 lb FT = 20%

LUMBER-	BRACING-	Structural wood sheathing directly applied, except end verticals. Rigid ceiling directly applied. MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
TOP CHORD 2x4 SP No.2	TOP CHORD	
BOT CHORD 2x4 SP No.2	BOT CHORD	
WEBS 2x4 SP No.3		
OTHERS 2x4 SP No.3		

REACTIONS. (lb/size) 6=402/Mechanical, 2=442/0-4-8 (min. 0-1-8)
Max Horz 2=85(LC 10)
Max Uplift 6=-135(LC 10), 2=-139(LC 10)
Max Grav 6=513(LC 21), 2=501(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-16=-980/567, 3-16=-959/576
BOT CHORD 2-17=-653/942, 17-18=-653/942, 6-18=-653/942
WEBS 3-6=-890/573

- NOTES-** (12-16)
- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 4-10-7, Exterior(2E) 4-10-7 to 9-11-8 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 6) Gable studs spaced at 2-0-0 oc.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - 9) Refer to girder(s) for truss to truss connections.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=135, 2=139.
 - 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Continued on page 2

4/25/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	R26	GABLE	1	1	Job Reference (optional) # 58877

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ID:GHOHt5MOv4FkLKIPfX2c9QzXMNI-LmCXcpv6beTJIGN_npWdH9Mz4EmdueLKTvyO?HzMoBK
- 12) Trusses designed with 2018 IRC also comply with 2015 IRC.

13) 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.

14) 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.

15) 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.

16) 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



4/25/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	R27	Monopitch	7	1	
Job Reference (optional)					# 58877

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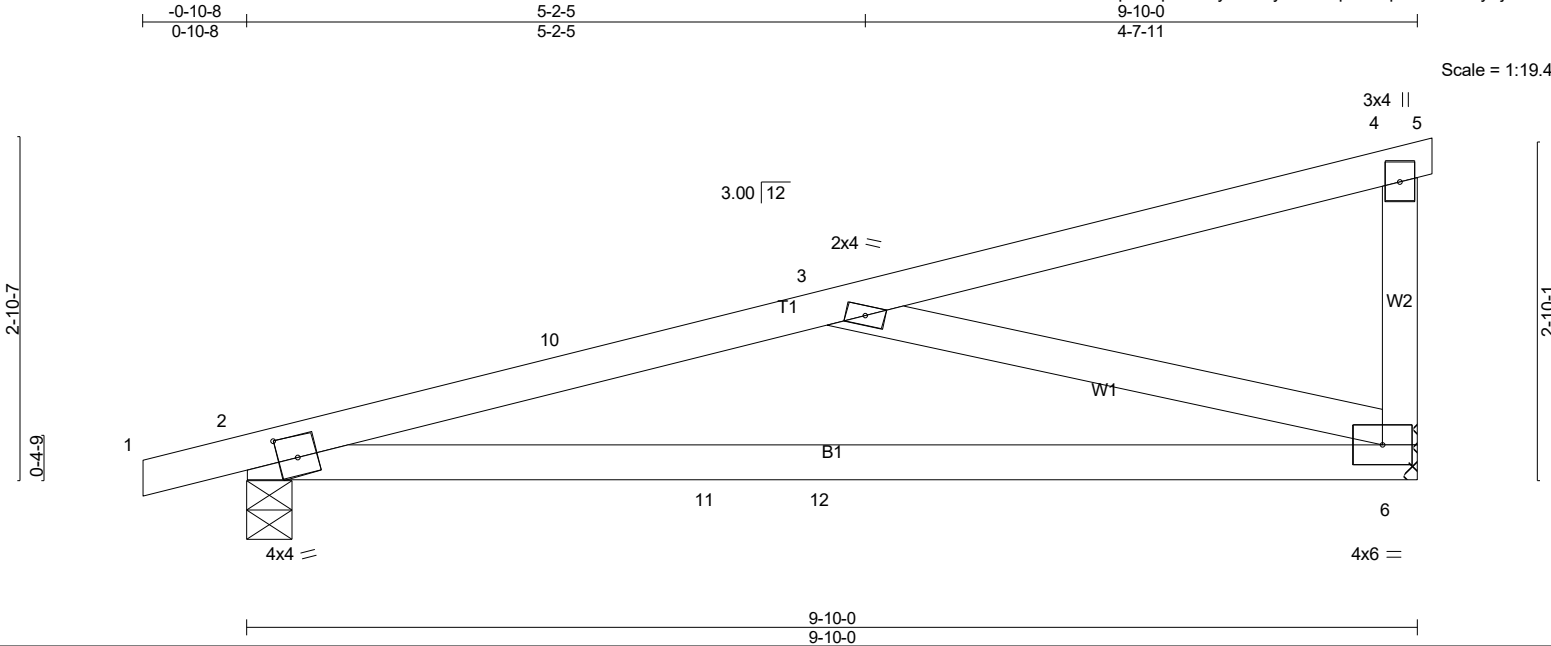


Plate Offsets (X,Y)-- [2:0-2-0,0-2-3]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	0.34	6-9	>346	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.35	6-9	>336	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.01	6	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-AS							Weight: 42 lb	FT = 20%
BCDL	10.0											

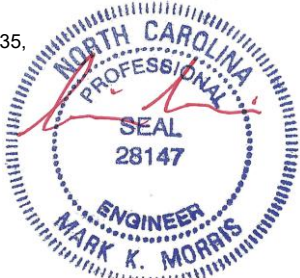
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD
BOT CHORD
Structural wood sheathing directly applied, except end verticals.
Rigid ceiling directly applied.
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 6=402/Mechanical, 2=442/0-4-8 (min. 0-1-8)
Max Horz2=85(LC 10)
Max Uplift6=-135(LC 10), 2=-139(LC 10)
Max Grav6=513(LC 21), 2=501(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-10=-980/567, 3-10=-959/576
BOT CHORD 2-11=-653/942, 11-12=-653/942, 6-12=-653/942
WEBS 3-6=-890/573

- NOTES-** (10-14)
- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 4-10-7, Exterior(2E) 4-10-7 to 9-11-8 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=135, 2=139.
 - 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Continued on page 2

4/25/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	R27	Monopitch	7	1	Job Reference (optional) # 58877

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- 10) Trusses designed with 2018 IRC also comply with 2015 IRC.
- 11) 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.
- 12) 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.
- 13) 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.
- 14) 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

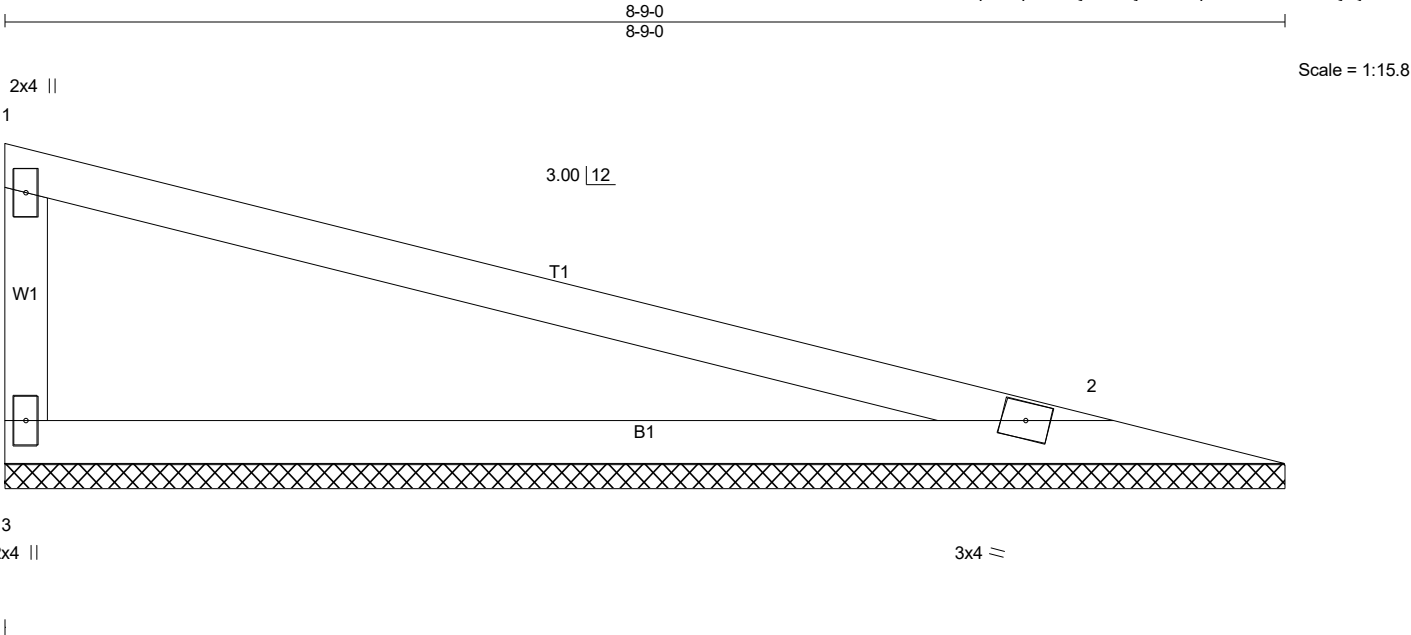


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Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	VT01	Valley	1	1	
					Job Reference (optional) # 58877

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LOADING (psf)	SPACING-	CS.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.75	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.73	Vert(CT)	n/a	-	n/a	999		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.00	2	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P							
BCDL 10.0	Code IRC2021/TPI2014							Weight: 27 lb	FT = 20%

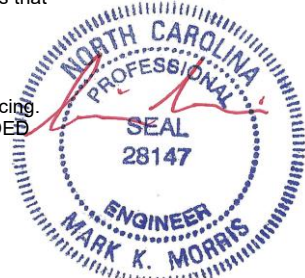
LUMBER-	BRACING-
TOP CHORD 2x4 SP SS	TOP CHORD Structural wood sheathing directly applied or 7-7-14 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 3=297/8-9-0 (min. 0-1-8), 2=297/8-9-0 (min. 0-1-8)
Max Horz 3=-57(LC 11)
Max Uplift 3=-46(LC 11), 2=-32(LC 11)
Max Grav 3=384(LC 21), 2=384(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-310/132

- NOTES-** (8-12)
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
 - Trusses designed with 2018 IRC also comply with 2015 IRC.
 - 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

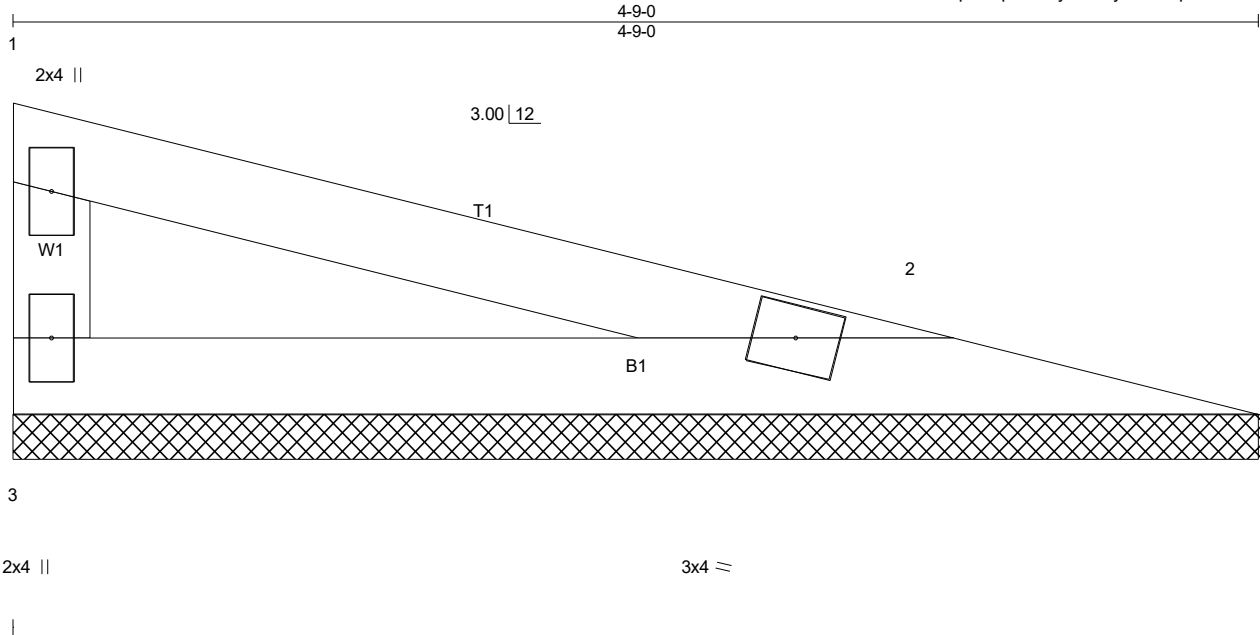


4/25/2025

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.

Job	Truss	Truss Type	Qty	Ply	LOT 0.0048 HONEYCUTT HILLS 56 SHELBY MEADOW LANE ANGIER, NC
25-3336-R01	VT02	Valley	1	1	
					Job Reference (optional) # 58877

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Apr 26 17:18:34 2025 Page 1
ID:GHOHT5MOv4FKLKPfX2c9QzXMNI-pzmvp9wkMybawQyBLW1spMuFveCQdBzTi9iyXjzMoBJ



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.28	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.23	Vert(CT)	n/a	-	n/a	999		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.00	2	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P							
BCDL 10.0	Code IRC2021/TPI2014							Weight: 13 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-9-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

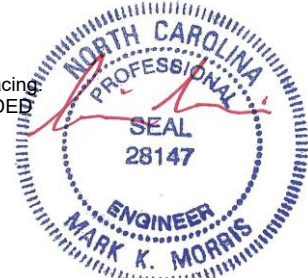
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 3=137/4-9-0 (min. 0-1-8), 2=137/4-9-0 (min. 0-1-8)
Max Horz 3=-26(LC 11)
Max Uplift 3=-21(LC 11), 2=-15(LC 11)
Max Grav 3=170(LC 21), 2=170(LC 21)

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

- NOTES-** (8-12)
- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
 - 8) Trusses designed with 2018 IRC also comply with 2015 IRC.
 - 9) 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.
 - 10) 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.
 - 11) 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.
 - 12) 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



4/25/2025

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