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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 #: 61060

JOB: 25-6337-R01

JOB NAME: lot 124 PROVIDENCE CREEK

Wind Code: ASCE7-16

Wind Speed: Vult= 120mph

Exposure Category: B

Mean Roof Height (feet): 35

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

30 Truss Design(s)

Trusses:

J01, M02, M03, M05, M07, M08, P01, R01, R02, R03, R04, R05, R06, R07, R08, R09, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, SP01, SP02, V01



7/28/2025

Mark Morris

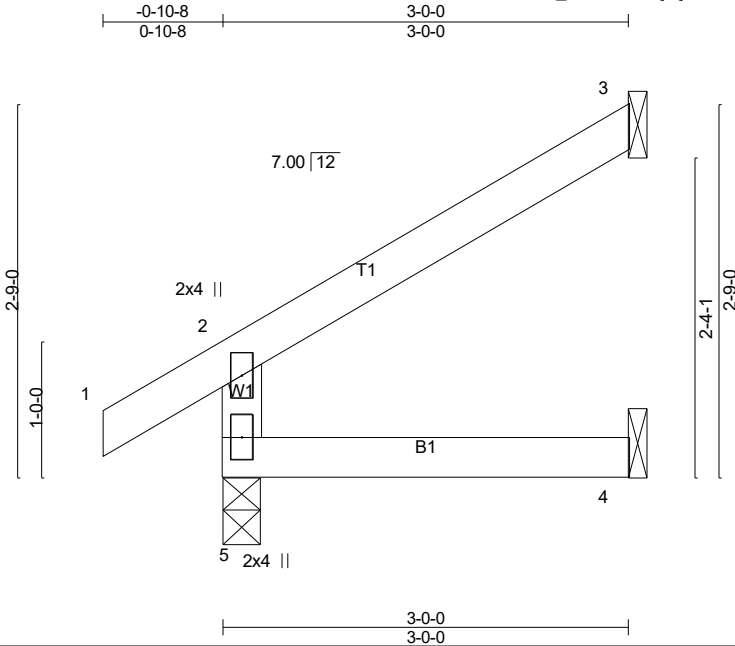
My license renewal date for the state of North Carolina is 12/31/2025

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

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Job	Truss	Truss Type	Qty	Ply	lot 124 PROVIDENCE CREEK 375 PROVIDENCE CREEK GARNER, NC
25-6337-R01	J01	Jack-Open	1	1	
Job Reference (optional)					# 61060

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Jul 29 20:12:32 2025 Page 1
ID:sco?uVwdzN_6Z0rHbcoMyuyZQFk-1PSIFQ84Ljgpe?ZcquK7Pp92PIXiASzzG3m89jyt6eD



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.17	Vert(LL)	-0.00	4-5	>999	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.10	Vert(CT)	-0.01	4-5	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	-0.01	3	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MR						
BCDL 10.0	Code IRC2021/TPI2014						Weight: 12 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 3-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

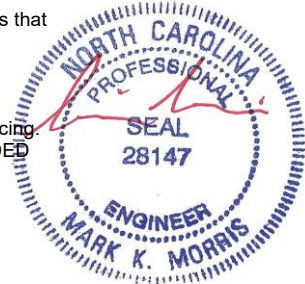
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 5=184/0-3-8 (min. 0-1-8), 3=71/Mechanical, 4=29/Mechanical
Max Horz 5=74(LC 14)
Max Uplift 5=9(LC 14), 3=51(LC 14), 4=1(LC 14)
Max Grav 5=267(LC 21), 3=108(LC 21), 4=52(LC 7)

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

- NOTES-** (9-12)
- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TC DL=5.0psf; BC DL=5.0psf; h=35ft; 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 9 lb uplift at joint 5, 51 lb uplift at joint 3 and 1 lb uplift at joint 4.
 - 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

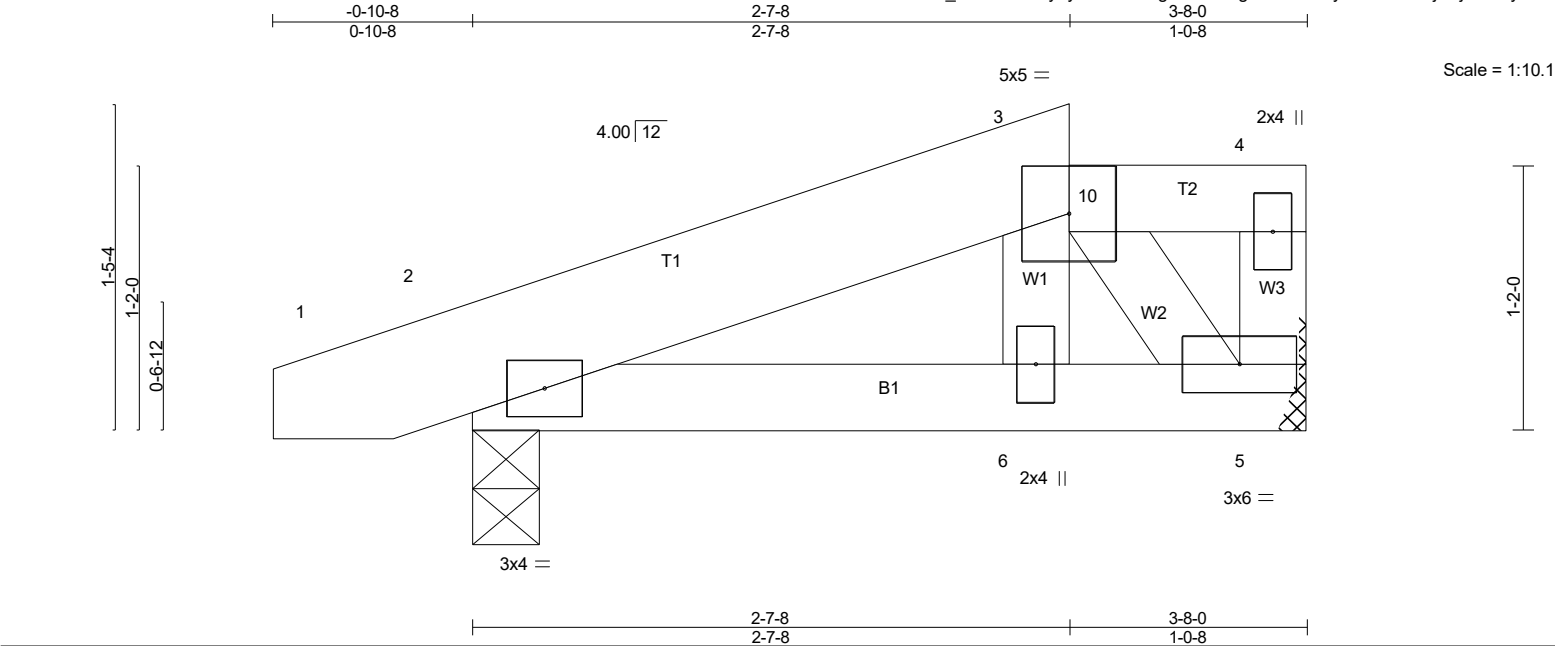


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Job	Truss	Truss Type	Qty	Ply	lot 124 PROVIDENCE CREEK 375 PROVIDENCE CREEK GARNER, NC
25-6337-R01	M02	ROOF SPECIAL	8	1	
					Job Reference (optional) # 61060

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Jul 29 20:12:33 2025 Page 1
ID:sco?uVwdzN_620rHbcoMyuyZQFk-Vb0gSm9i50ogF98oObrMy1iCMhtWvuj6UjWhh9yt6eC



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	40.0	Plate Grip DOL	1.00	TC	0.22	Vert(LL)	-0.00 9 >999 480	MT20		244/190	
Snow (PF)	20.0	Lumber DOL	1.00	BC	0.12	Vert(CT)	-0.00 6 >999 360				
TCDL	10.0	Rep Stress Incr	NO	WB	0.10	Horz(CT)	0.00 5 n/a n/a				
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-MP		Wind(LL)	0.00 9 >999 240				
BCDL	10.0							Weight: 19 lb		FT = 20%	

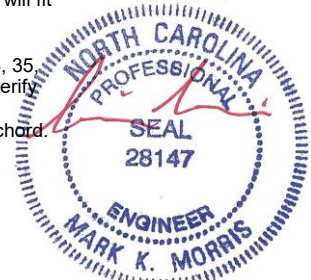
LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.2 *Except* T2: 2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 2-7-8 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3 *Except* W3: 2x4 SP No.2		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=247/0-3-8 (min. 0-1-8), 5=415/Mechanical
Max Horz 2=33(LC 10)
Max Grav 2=344(LC 2), 5=483(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-344/0
BOT CHORD 2-6=0/307, 5-6=0/307
WEBS 3-5=-425/0

- NOTES-** (13)
- 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=35ft; 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
 - 3) TCLL: ASCE 7-16; Pr=40.0 psf (roof LL: Lum DOL=1.00 Plate DOL=1.00); 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.
 - 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) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 260 lb down at 2-9-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - 12) 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



Continued on page 2

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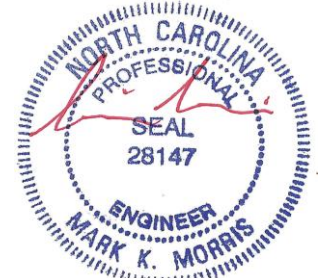
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Job	Truss	Truss Type	Qty	Ply	lot 124 PROVIDENCE CREEK 375 PROVIDENCE CREEK GARNER, NC
25-6337-R01	M02	ROOF SPECIAL	8	1	Job Reference (optional) # 61060

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Jul 29 20:12:33 2025 Page 2
ID:sco?uVwdzN_6Z0rHbcoMyuyZQFk-Vb0gSm9i50ogF98oObrMy1iCMhtWwuj6UjWhh9yt6eC

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 5-7=-20, 3-4=-140(F=-80)
Concentrated Loads (lb)
Vert: 10=-260(F)
- 2) Dead + Roof Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-3=-100, 5-7=-20, 3-4=-180(F=-80)
Concentrated Loads (lb)
Vert: 10=-260(F)
- 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-3=-80, 5-7=-20, 3-4=-160(F=-80)
Concentrated Loads (lb)
Vert: 10=-260(F)
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-50, 5-7=-20, 3-4=-130(F=-80)
Concentrated Loads (lb)
Vert: 10=-260(F)
- 5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-57, 5-7=-20, 3-4=-109(F=-80)
Concentrated Loads (lb)
Vert: 10=-260(F)
- 6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-29, 5-7=-20, 3-4=-141(F=-80)
Concentrated Loads (lb)
Vert: 10=-260(F)
- 7) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-20, 5-7=-40, 3-4=-100(F=-80)
Concentrated Loads (lb)
Vert: 10=-260(F)
- 8) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=67, 2-3=58, 5-7=-10, 3-4=-22(F=-80)
Horz: 1-2=-77, 2-3=-68, 3-4=68
Concentrated Loads (lb)
Vert: 10=-260(F)
- 9) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-1, 2-3=-44, 5-7=-20, 3-4=-124(F=-80)
Horz: 1-2=-19, 2-3=24, 3-4=-24
Concentrated Loads (lb)
Vert: 10=-260(F)
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=36, 2-3=24, 5-7=-10, 3-4=-56(F=-80)
Horz: 1-2=-46, 2-3=-34, 3-4=34
Concentrated Loads (lb)
Vert: 10=-260(F)
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=9, 2-3=13, 5-7=-10, 3-4=-56(F=-80)
Horz: 1-2=-19, 2-3=-23, 3-4=34
Concentrated Loads (lb)
Vert: 10=-260(F)
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=9, 2-3=5, 5-7=-20, 3-4=-75(F=-80)
Horz: 1-2=-29, 2-3=-25, 3-4=25
Concentrated Loads (lb)
Vert: 10=-260(F)
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-1, 2-3=-6, 5-7=-20, 3-4=-75(F=-80)
Horz: 1-2=-19, 2-3=-14, 3-4=25
Concentrated Loads (lb)
Vert: 10=-260(F)
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60



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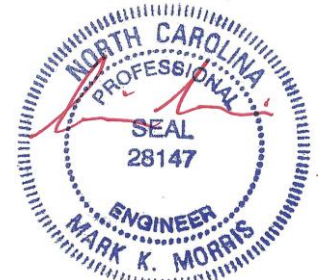
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Job	Truss	Truss Type	Qty	Ply	lot 124 PROVIDENCE CREEK 375 PROVIDENCE CREEK GARNER, NC
25-6337-R01	M02	ROOF SPECIAL	8	1	
Job Reference (optional)					# 61060

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Jul 29 20:12:33 2025 Page 3
ID:sco?uVwdzN_6Z0rHbcoMyuyZQFk-Vb0gSm9i50ogF98oObrMy1iCMhtWwuj6UjWhh9yt6eC

LOAD CASE(S) Standard

- Uniform Loads (plf)
Vert: 1-2=19, 2-3=24, 5-7=-10, 3-4=-70(F=-80)
Horz: 1-2=-29, 2-3=-34, 3-4=20
- Concentrated Loads (lb)
Vert: 10=-260(F)
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=5, 2-3=10, 5-7=-10, 3-4=-70(F=-80)
Horz: 1-2=-15, 2-3=-20, 3-4=20
Concentrated Loads (lb)
Vert: 10=-260(F)
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=19, 2-3=24, 5-7=-10, 3-4=-70(F=-80)
Horz: 1-2=-29, 2-3=-34, 3-4=20
Concentrated Loads (lb)
Vert: 10=-260(F)
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=5, 2-3=10, 5-7=-10, 3-4=-70(F=-80)
Horz: 1-2=-15, 2-3=-20, 3-4=20
Concentrated Loads (lb)
Vert: 10=-260(F)
- 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=9, 2-3=5, 5-7=-20, 3-4=-90(F=-80)
Horz: 1-2=-29, 2-3=-25, 3-4=10
Concentrated Loads (lb)
Vert: 10=-260(F)
- 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-5, 2-3=-10, 5-7=-20, 3-4=-90(F=-80)
Horz: 1-2=-15, 2-3=-10, 3-4=10
Concentrated Loads (lb)
Vert: 10=-260(F)
- 20) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-100, 2-3=-20, 5-7=-20, 3-4=-100(F=-80)
Concentrated Loads (lb)
Vert: 10=-260(F)
- 21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-69, 5-7=-20, 3-4=-112(F=-80)
Concentrated Loads (lb)
Vert: 10=-260(F)
- 22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-32, 5-7=-20, 3-4=-155(F=-80)
Concentrated Loads (lb)
Vert: 10=-260(F)
- 23) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-3=-20, 5-7=-20, 3-4=-100(F=-80)
Concentrated Loads (lb)
Vert: 10=-260(F)
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-28, 2-3=-32, 5-7=-20, 3-4=-112(F=-80)
Horz: 1-2=-22, 2-3=-18, 3-4=18
Concentrated Loads (lb)
Vert: 10=-260(F)
- 25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-36, 2-3=-40, 5-7=-20, 3-4=-112(F=-80)
Horz: 1-2=-14, 2-3=-10, 3-4=18
Concentrated Loads (lb)
Vert: 10=-260(F)
- 26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-28, 2-3=-32, 5-7=-20, 3-4=-123(F=-80)
Horz: 1-2=-22, 2-3=-18, 3-4=7
Concentrated Loads (lb)
Vert: 10=-260(F)
- 27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60



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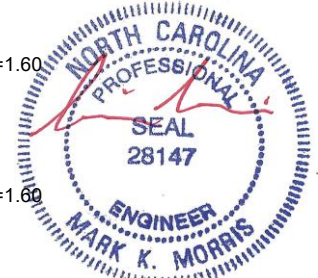
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Job	Truss	Truss Type	Qty	Ply	lot 124 PROVIDENCE CREEK 375 PROVIDENCE CREEK GARNER, NC
25-6337-R01	M02	ROOF SPECIAL	8	1	
Job Reference (optional)					# 61060

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ID:sco?uVwdzN_6Z0rHbcoMyuyZQFk-Vb0gSm9i50ogF98oObrMy1iCMhtWwuj6UjWhh9yt6eC

LOAD CASE(S) Standard

- Uniform Loads (plf)
Vert: 1-2=-39, 2-3=-43, 5-7=-20, 3-4=-123(F=-80)
Horz: 1-2=-11, 2-3=-7, 3-4=7
- Concentrated Loads (lb)
Vert: 10=-260(F)
- 28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=-58, 2-3=-62, 5-7=-20, 3-4=-142(F=-80)
Horz: 1-2=-22, 2-3=-18, 3-4=18
- Concentrated Loads (lb)
Vert: 10=-260(F)
- 29) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=-66, 2-3=-70, 5-7=-20, 3-4=-142(F=-80)
Horz: 1-2=-14, 2-3=-10, 3-4=18
- Concentrated Loads (lb)
Vert: 10=-260(F)
- 30) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=-58, 2-3=-62, 5-7=-20, 3-4=-153(F=-80)
Horz: 1-2=-22, 2-3=-18, 3-4=7
- Concentrated Loads (lb)
Vert: 10=-260(F)
- 31) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=-69, 2-3=-73, 5-7=-20, 3-4=-153(F=-80)
Horz: 1-2=-11, 2-3=-7, 3-4=7
- Concentrated Loads (lb)
Vert: 10=-260(F)
- 32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-3=-20, 5-7=-20, 3-4=-140(F=-80)
- Concentrated Loads (lb)
Vert: 10=-260(F)
- 33) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=6, 2-3=-26, 5-7=-10, 3-4=-106(F=-80)
Horz: 1-2=-16, 2-3=16, 3-4=-16
- Concentrated Loads (lb)
Vert: 10=-260(F)
- 34) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-3=6, 5-7=-10, 3-4=-74(F=-80)
Horz: 1-3=-16, 3-4=16
- Concentrated Loads (lb)
Vert: 10=-260(F)
- 35) 3rd Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-3=-32, 5-7=-20, 3-4=-174(F=-80)
- Concentrated Loads (lb)
Vert: 10=-260(F)
- 36) 4th Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-3=-94, 5-7=-20, 3-4=-112(F=-80)
- Concentrated Loads (lb)
Vert: 10=-260(F)
- 37) 5th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-3=-29, 5-7=-20, 3-4=-155(F=-80)
- Concentrated Loads (lb)
Vert: 10=-260(F)
- 38) 6th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-3=-75, 5-7=-20, 3-4=-109(F=-80)
- Concentrated Loads (lb)
Vert: 10=-260(F)
- 39) 7th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=-7, 2-3=-11, 5-7=-20, 3-4=-137(F=-80)
Horz: 1-2=-22, 2-3=-18, 3-4=18
- Concentrated Loads (lb)
Vert: 10=-260(F)
- 40) 8th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60



Continued on page 5

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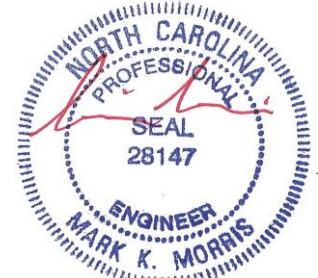
Warning !—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – 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 124 PROVIDENCE CREEK 375 PROVIDENCE CREEK GARNER, NC
25-6337-R01	M02	ROOF SPECIAL	8	1	
Job Reference (optional)					# 61060

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Jul 29 20:12:33 2025 Page 5
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LOAD CASE(S) Standard

- Uniform Loads (plf)
Vert: 1-2=-53, 2-3=-57, 5-7=-20, 3-4=-91(F=-80)
Horz: 1-2=-22, 2-3=-18, 3-4=18
- Concentrated Loads (lb)
Vert: 10=-260(F)
- 41) 9th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=-15, 2-3=-19, 5-7=-20, 3-4=-137(F=-80)
Horz: 1-2=-14, 2-3=-10, 3-4=18
- Concentrated Loads (lb)
Vert: 10=-260(F)
- 42) 10th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=-61, 2-3=-65, 5-7=-20, 3-4=-91(F=-80)
Horz: 1-2=-14, 2-3=-10, 3-4=18
- Concentrated Loads (lb)
Vert: 10=-260(F)
- 43) 11th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=-7, 2-3=-11, 5-7=-20, 3-4=-148(F=-80)
Horz: 1-2=-22, 2-3=-18, 3-4=7
- Concentrated Loads (lb)
Vert: 10=-260(F)
- 44) 12th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=-53, 2-3=-57, 5-7=-20, 3-4=-102(F=-80)
Horz: 1-2=-22, 2-3=-18, 3-4=7
- Concentrated Loads (lb)
Vert: 10=-260(F)
- 45) 13th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=-18, 2-3=-22, 5-7=-20, 3-4=-148(F=-80)
Horz: 1-2=-11, 2-3=-7, 3-4=7
- Concentrated Loads (lb)
Vert: 10=-260(F)
- 46) 14th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=-64, 2-3=-68, 5-7=-20, 3-4=-102(F=-80)
Horz: 1-2=-11, 2-3=-7, 3-4=7
- Concentrated Loads (lb)
Vert: 10=-260(F)
- 47) 15th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-3=-32, 5-7=-20, 3-4=-174(F=-80)
- Concentrated Loads (lb)
Vert: 10=-260(F)
- 48) 16th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-3=-94, 5-7=-20, 3-4=-112(F=-80)
- Concentrated Loads (lb)
Vert: 10=-260(F)
- 49) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
- Uniform Loads (plf)
Vert: 1-3=-100, 5-7=-20, 3-4=-180(F=-80)
- Concentrated Loads (lb)
Vert: 10=-260(F)
- 50) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
- Uniform Loads (plf)
Vert: 1-3=-20, 5-7=-20, 3-4=-180(F=-80)
- Concentrated Loads (lb)
Vert: 10=-260(F)
- 51) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
- Uniform Loads (plf)
Vert: 1-3=-80, 5-7=-20, 3-4=-160(F=-80)
- Concentrated Loads (lb)
Vert: 10=-260(F)
- 52) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
- Uniform Loads (plf)
Vert: 1-3=-20, 5-7=-20, 3-4=-160(F=-80)
- Concentrated Loads (lb)
Vert: 10=-260(F)

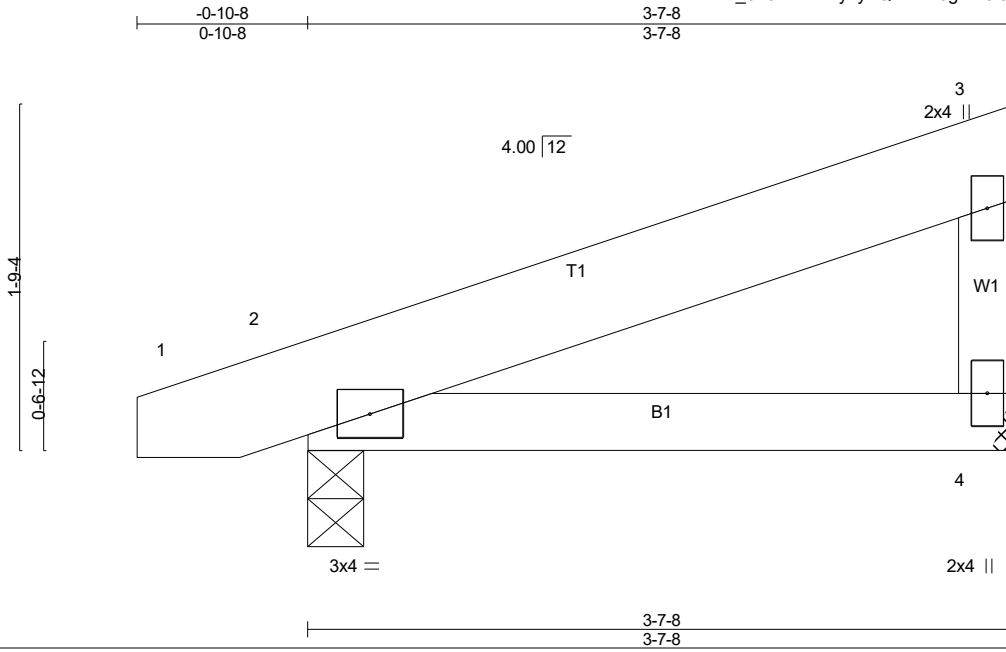


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Job	Truss	Truss Type	Qty	Ply	lot 124 PROVIDENCE CREEK 375 PROVIDENCE CREEK GARNER, NC
25-6337-R01	M03	MONOPITCH	2	1	
					Job Reference (optional) # 61060

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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 0.12	Vert(LL)	-0.00	4-7	>999	240	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.08	Vert(CT)	-0.01	4-7	>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: 18 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-7-8 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.

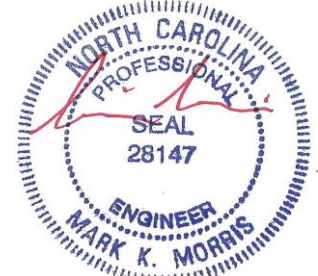
REACTIONS. (lb/size) 4=136/Mechanical, 2=179/0-3-8 (min. 0-1-8)
Max Horz 2=49(LC 10)
Max Uplift 4=33(LC 14), 2=40(LC 10)
Max Grav 4=178(LC 21), 2=239(LC 21)

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

NOTES- (9)

- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=5.0psf; BCDL=5.0psf; h=35ft; 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.
- 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 4 and 40 lb uplift at joint 2.

LOAD CASE(S) Standard



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Job	Truss	Truss Type	Qty	Ply	lot 124 PROVIDENCE CREEK 375 PROVIDENCE CREEK GARNER, NC
25-6337-R01	M05	Jack-Open Girder	1	1	
Job Reference (optional)					# 61060

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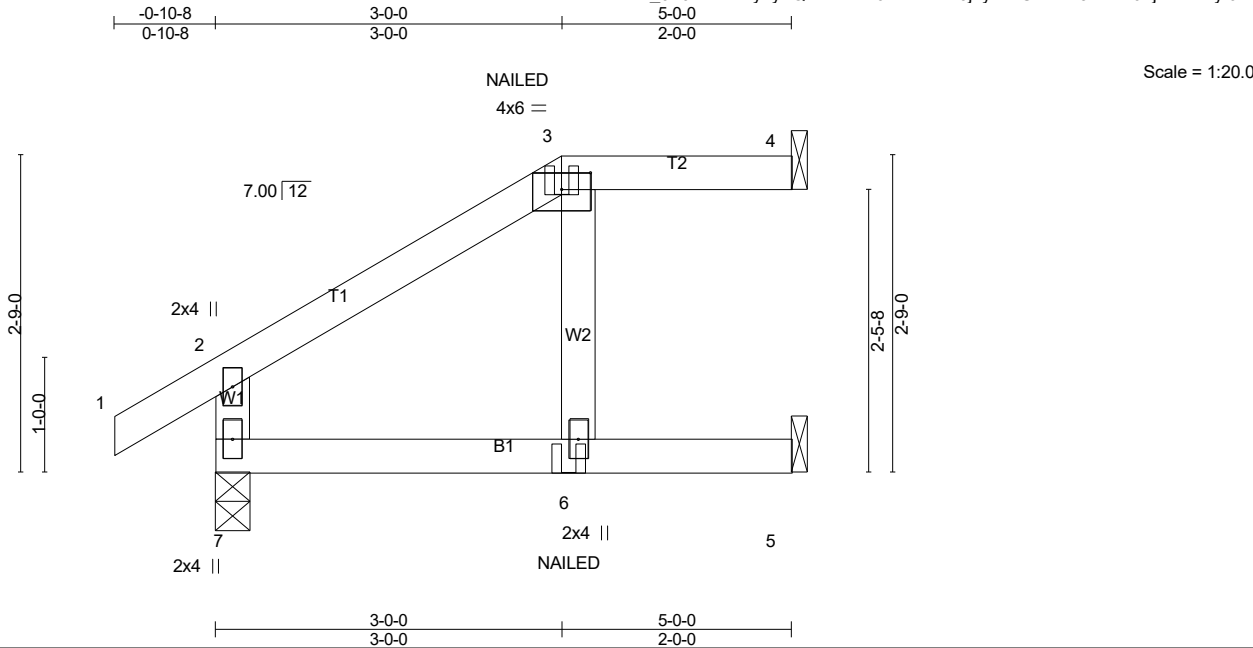


Plate Offsets (X,Y)-- [3:0-3-0,0-1-12]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	-0.05 6-7 >999 240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.09 6-7 >667 180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.02	Horz(CT)	0.09 4 n/a n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-MP				Weight: 21 lb	FT = 20%
BCDL	10.0								

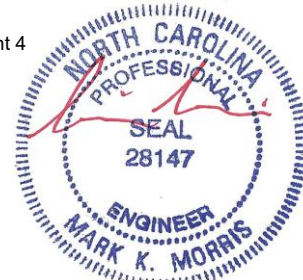
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied 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=283/0-3-8 (min. 0-1-8), 4=113/Mechanical, 5=107/Mechanical
Max Horz 7=76(LC 12)
Max Uplift 7=47(LC 12), 4=38(LC 9), 5=31(LC 12)
Max Grav 7=409(LC 34), 4=157(LC 33), 5=119(LC 34)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-7=-319/50

- NOTES-** (13-16)
- 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=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) TC LL: 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.
 - 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 47 lb uplift at joint 7, 38 lb uplift at joint 4 and 31 lb uplift at joint 5.
 - 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).



Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	lot 124 PROVIDENCE CREEK 375 PROVIDENCE CREEK GARNER, NC
25-6337-R01	M05	Jack-Open Girder	1	1	Job Reference (optional) # 61060

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- 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=-48(F) 6=-11(F)

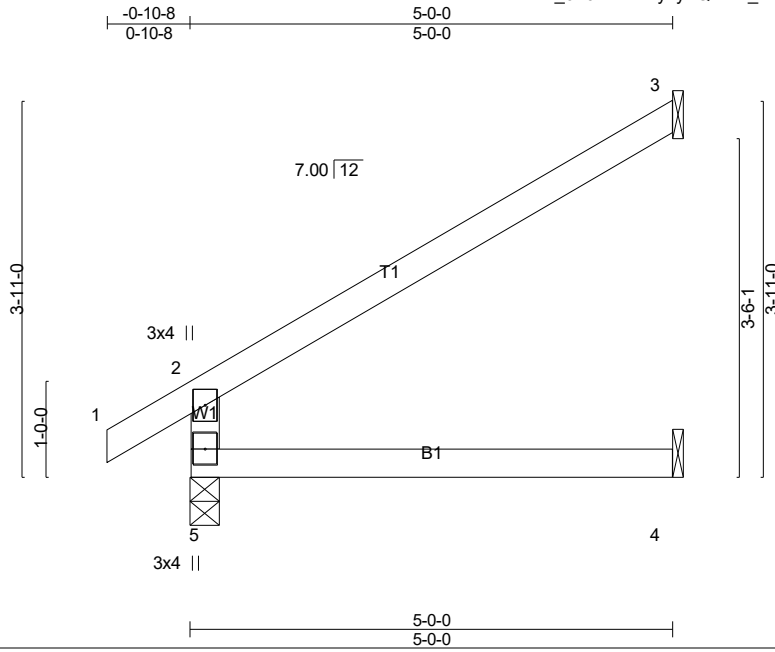


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Job	Truss	Truss Type	Qty	Ply	lot 124 PROVIDENCE CREEK 375 PROVIDENCE CREEK GARNER, NC
25-6337-R01	M07	Jack-Open	4	1	
Job Reference (optional)					# 61060

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Scale: 1/2"=1'

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.52	Vert(LL)	-0.03	4-5	>999	240	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.26	Vert(CT)	-0.06	4-5	>999	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.04	3	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-AS							
BCDL 10.0	Code IRC2021/TPI2014							Weight: 19 lb	FT = 20%

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.

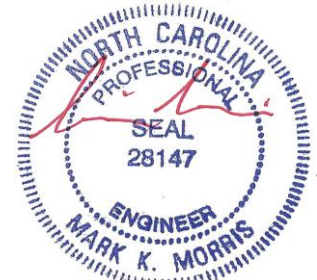
REACTIONS. (lb/size) 5=259/0-3-8 (min. 0-1-8), 3=131/Mechanical, 4=54/Mechanical
Max Horz 5=105(LC 14)
Max Uplift 5=-12(LC 14), 3=-83(LC 14)
Max Grav 5=346(LC 21), 3=209(LC 21), 4=90(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-313/105

NOTES- (10)

- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TC DL=5.0psf; BCDL=5.0psf; h=35ft; 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
- 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 12 lb uplift at joint 5 and 83 lb uplift at joint 3.
- 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.

LOAD CASE(S) Standard



7/28/2025

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Job	Truss	Truss Type	Qty	Ply	lot 124 PROVIDENCE CREEK 375 PROVIDENCE CREEK GARNER, NC
25-6337-R01	M08	JACK-OPEN GIRDER	1	2	

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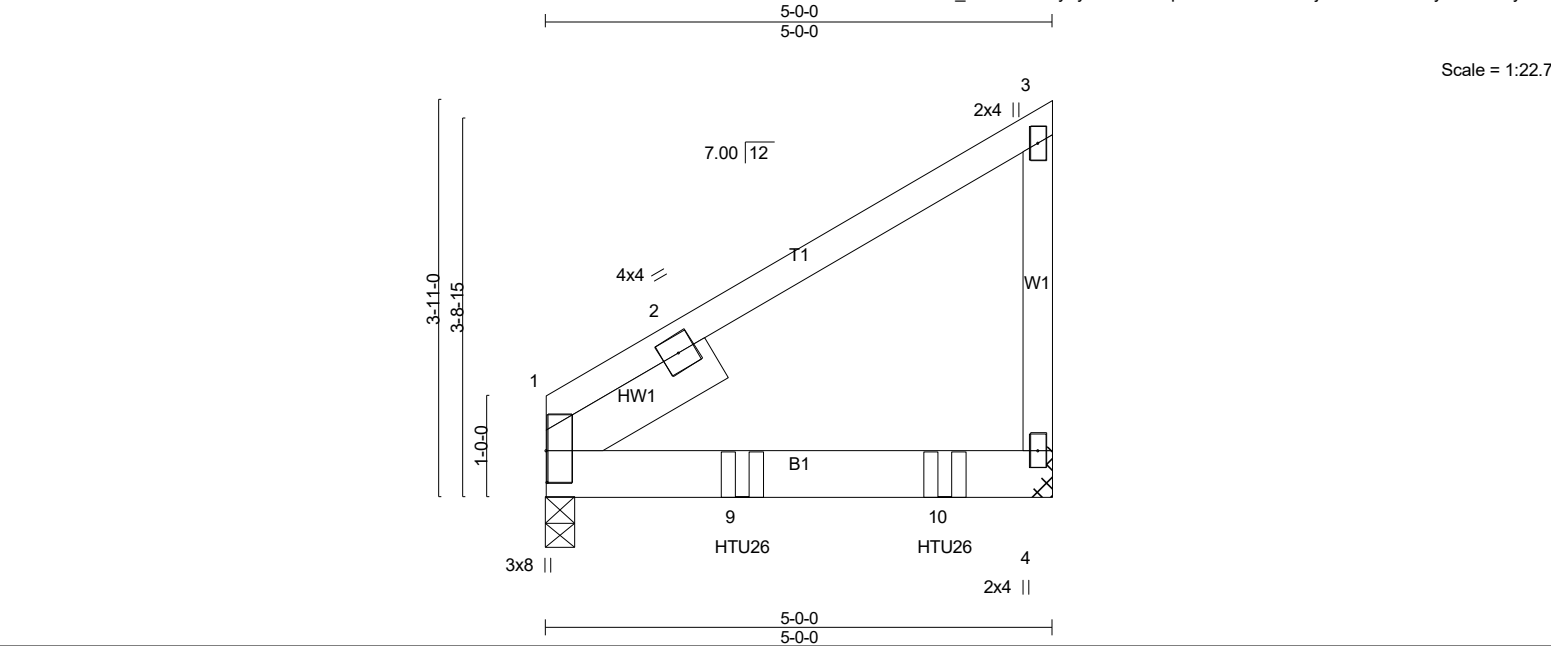


Plate Offsets (X,Y)-- [1:0-3-12,0-0-2]							
LOADING (psf)		SPACING-		CSI.		DEFL.	
TCLL (roof)	20.0	2-0-0		TC	0.49	in (loc)	L/d
Snow (Pf)	20.0	Plate Grip DOL	1.15	BC	0.91	Vert(LL)	-0.06 4-7 >999 240
TCDL	10.0	Lumber DOL	1.15	WB	0.00	Vert(CT)	-0.10 4-7 >557 180
BCLL	0.0 *	Rep Stress Incr	NO	Matrix-MP		Horz(CT)	0.04 1 n/a n/a
BCDL	10.0	Code IRC2021/TPI2014					
				PLATES		GRIP	
				MT20		244/190	
				Weight: 59 lb		FT = 20%	

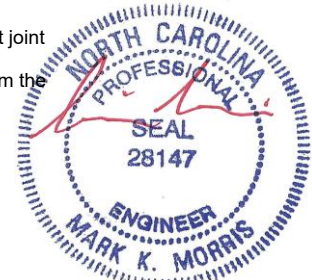
LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals.
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2		
SLIDER	Left 2x6 SP No.2 1-11-0		

REACTIONS. (lb/size) 1=979/0-3-8 (min. 0-1-8), 4=1398/Mechanical
Max Horz 1=97(LC 12)
Max Uplift 1=-92(LC 12), 4=-225(LC 12)
Max Grav 1=1065(LC 18), 4=1484(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-838/202, 3-4=-251/75

- NOTES-** (12)
- 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.
 - 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.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; 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 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 92 lb uplift at joint 1 and 225 lb uplift at joint 4.
 - Use Simpson Strong-Tie HTU26 (10-16d Girder, 14-10dx1 1/2 Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-11-4 from the left end to 3-11-4 to connect truss(es) R11 (1 ply 2x6 SP) to back face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.

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



Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	lot 124 PROVIDENCE CREEK 375 PROVIDENCE CREEK GARNER, NC
25-6337-R01	M08	JACK-OPEN GIRDER	1	2	Job Reference (optional) # 61060

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LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 9=-994(B) 10=-994(B)

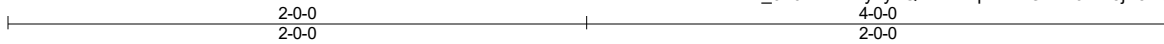


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Job	Truss	Truss Type	Qty	Ply	lot 124 PROVIDENCE CREEK 375 PROVIDENCE CREEK GARNER, NC
25-6337-R01	P01	Piggyback	11	1	
Job Reference (optional)					# 61060

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Scale: 1.5"=1'

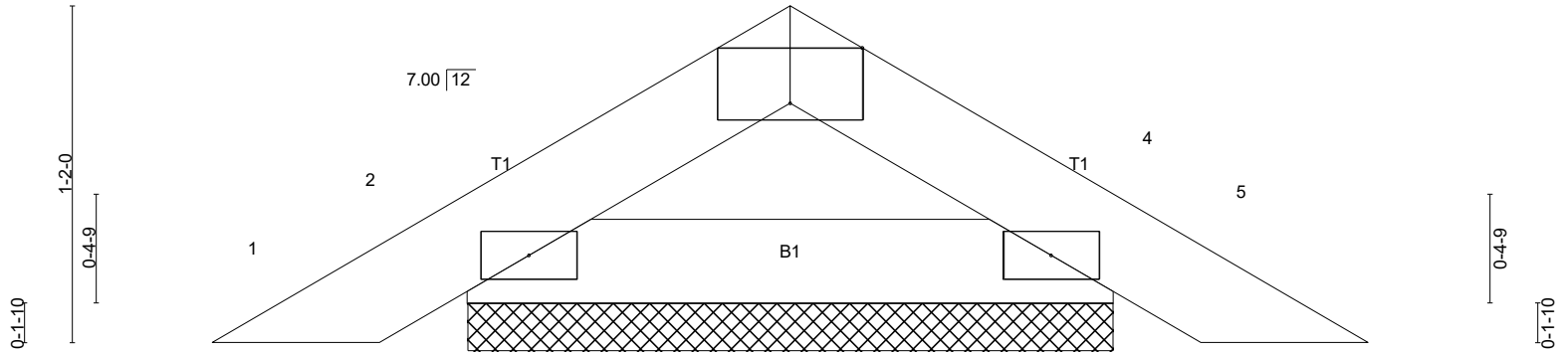


Plate Offsets (X,Y)-- [3:0-3-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.04	Vert(LL) -0.00	4	n/r	180		MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.10	Vert(CT) -0.00	4	n/r	80			
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: 10 lb FT = 20%

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

BRACING-
TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 4-0-0 oc purlins.
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.

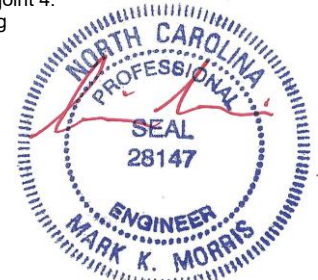
REACTIONS. (lb/size) 2=125/2-2-13 (min. 0-1-8), 4=125/2-2-13 (min. 0-1-8)
Max Horz 2=22(LC 13)
Max Uplift 2=-23(LC 14), 4=-23(LC 15)
Max Grav 2=151(LC 21), 4=151(LC 22)

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

NOTES- (11)

- 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=35ft; 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.
- 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 23 lb uplift at joint 2 and 23 lb uplift at joint 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

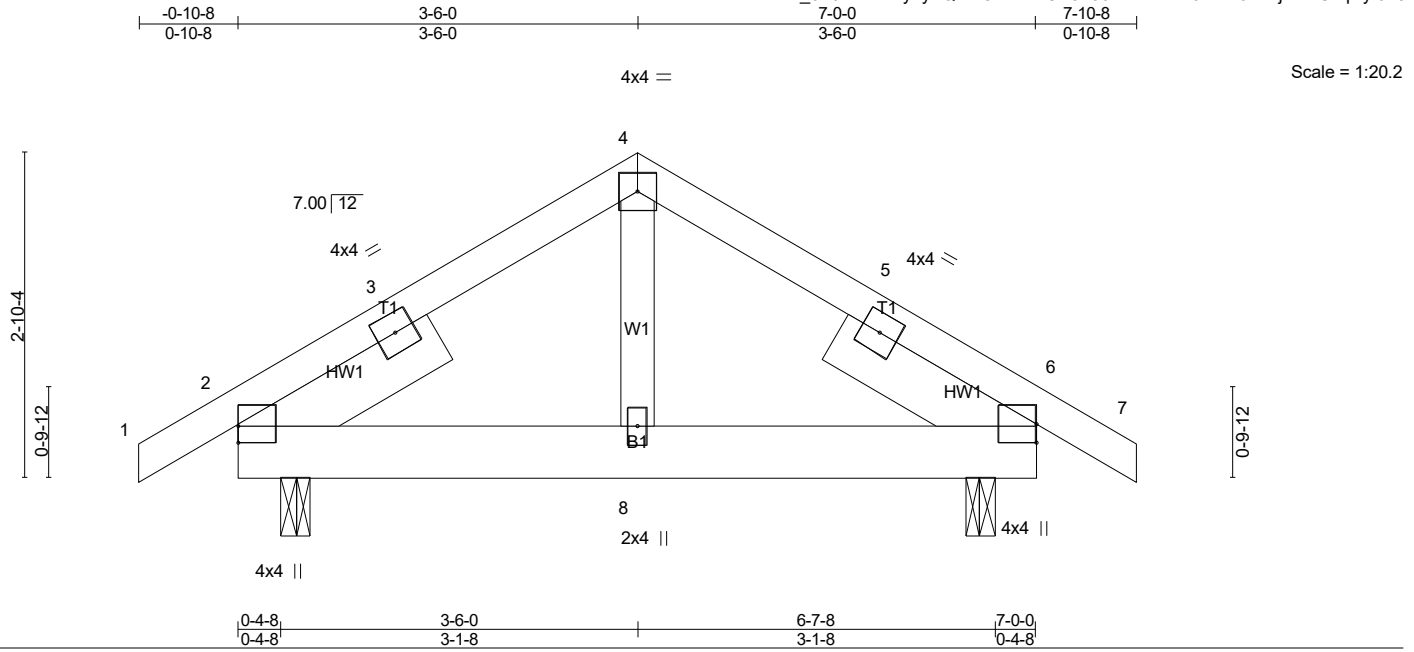


7/28/2025

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Job	Truss	Truss Type	Qty	Ply	lot 124 PROVIDENCE CREEK 375 PROVIDENCE CREEK GARNER, NC
25-6337-R01	R01	STR-GABLE	1	1	
Job Reference (optional)					# 61060

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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 0.10	Vert(LL)	-0.00	8	>999	240	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.08	Vert(CT)	-0.00	8-19	>999	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.03	Horz(CT)	-0.00	2	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-AS							
BCDL 10.0	Code IRC2021/TPI2014							Weight: 44 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 1-11-0, Right 2x6 SP No.2 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.

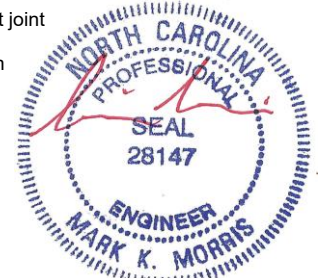
REACTIONS. (lb/size) 2=346/0-3-0 (min. 0-1-8), 6=319/0-3-0 (min. 0-1-8)
Max Horz 2=-56(LC 12)
Max Uplift 2=-53(LC 14), 6=-50(LC 15)
Max Grav 2=459(LC 21), 6=430(LC 22)

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=120mph (3-second gust) Vasd=95mph; TCCL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; 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.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 2 and 50 lb uplift at joint 6.
- 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.

LOAD CASE(S) Standard

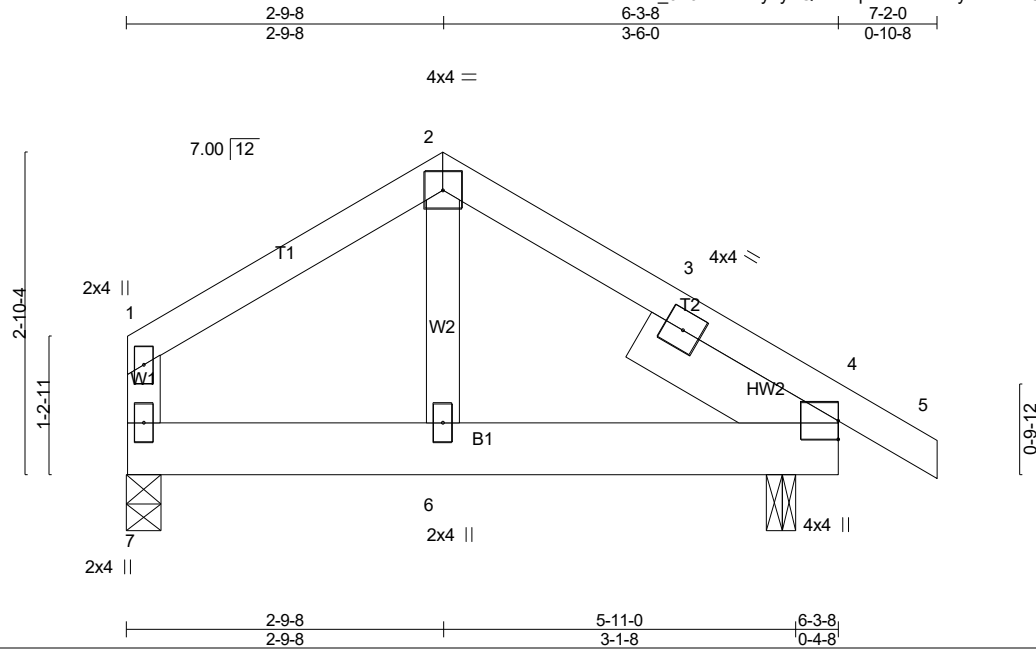


7/28/2025

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Job	Truss	Truss Type	Qty	Ply	lot 124 PROVIDENCE CREEK 375 PROVIDENCE CREEK GARNER, NC
25-6337-R01	R02	COMMON	2	1	
Job Reference (optional)					# 61060

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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 0.19	Vert(LL) 0.06	6	>999	240	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.32	Vert(CT) -0.06	6	>999	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.04	Horz(CT) -0.01	4	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-AS						
BCDL 10.0	Code IRC2021/TPI2014						Weight: 36 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER Right 2x6 SP No.2 1-11-0

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

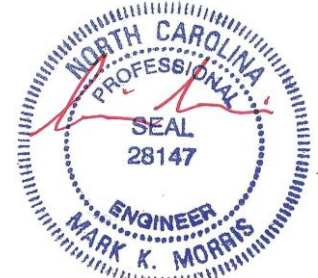
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 7=222/0-3-8 (min. 0-1-8), 4=322/0-3-0 (min. 0-1-8)
Max Horz 7=-55(LC 15)
Max Uplift 7=-23(LC 14), 4=-48(LC 15)
Max Grav 7=272(LC 21), 4=375(LC 22)

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=120mph (3-second gust) Vasd=95mph; TCCL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever right exposed; porch left and 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.
 - 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 23 lb uplift at joint 7 and 48 lb uplift at joint 4.
 - 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.

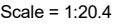
LOAD CASE(S) Standard



7/28/2025

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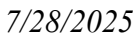
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Weight: 24 lb FT = 20%

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

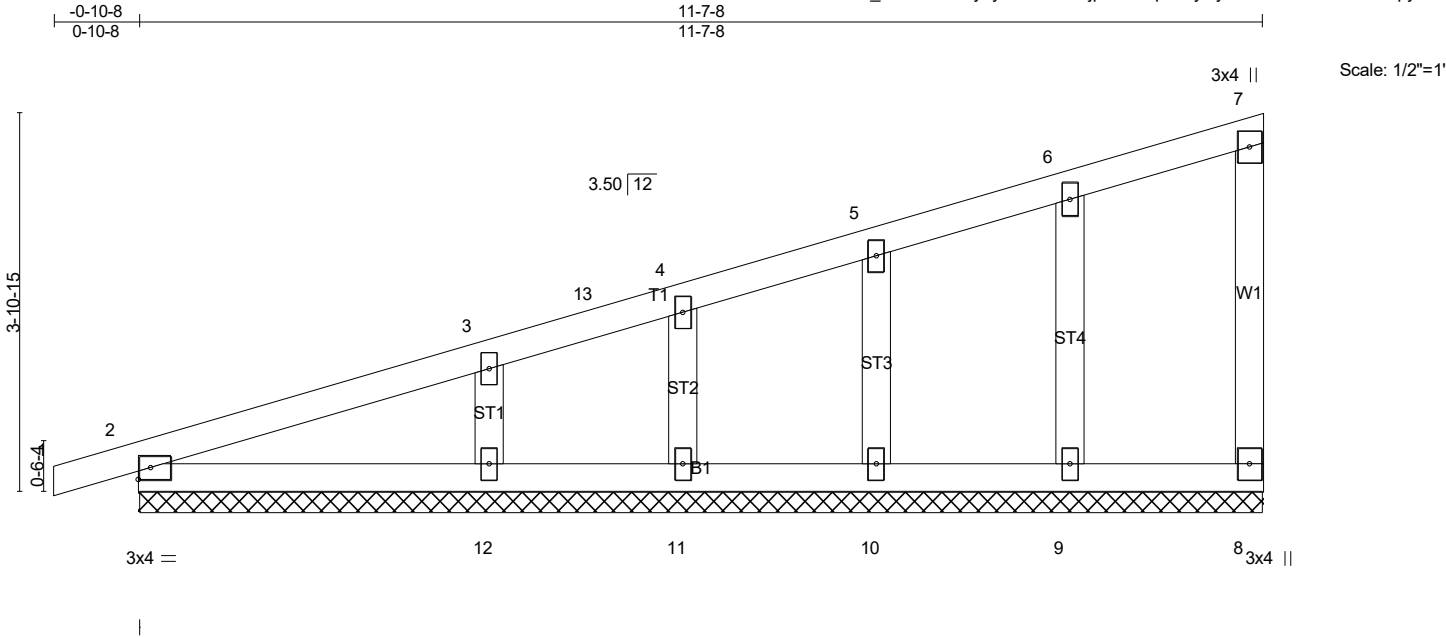
LOAD CASE(S) Standard



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Job	Truss	Truss Type	Qty	Ply	lot 124 PROVIDENCE CREEK 375 PROVIDENCE CREEK GARNER, NC
25-6337-R01	R04	GABLE	1	1	
Job Reference (optional)					# 61060

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Jul 29 20:12:39 2025 Page 1
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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	0.14	Vert(LL)	-0.00	1	n/r	180								MT20	244/190		
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	0.00	1	n/r	80											
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	8	n/a	n/a											
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-S														Weight: 53 lb	FT = 20%		
BCDL	10.0																				

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

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

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

REACTIONS. All bearings 11-7-8.
(lb) - Max Horz 2=124(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 8, 2, 9, 10, 11, 12
Max Grav All reactions 250 lb or less at joint(s) 8, 2, 9, 10, 11 except 12=284(LC 21)

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

- NOTES-** (12)
- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 3-11-2, Exterior(2N) 3-11-2 to 6-8-2, Corner(3E) 6-8-2 to 11-5-12 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) All plates are 2x4 MT20 unless otherwise indicated.
 - 7) Gable requires continuous bottom chord bearing.
 - 8) Gable studs spaced at 2-0-0 oc.
 - 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 10) * This truss has been designed for a live load of 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.
 - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 2, 9, 10, 11, 12.

LOAD CASE(S) Standard

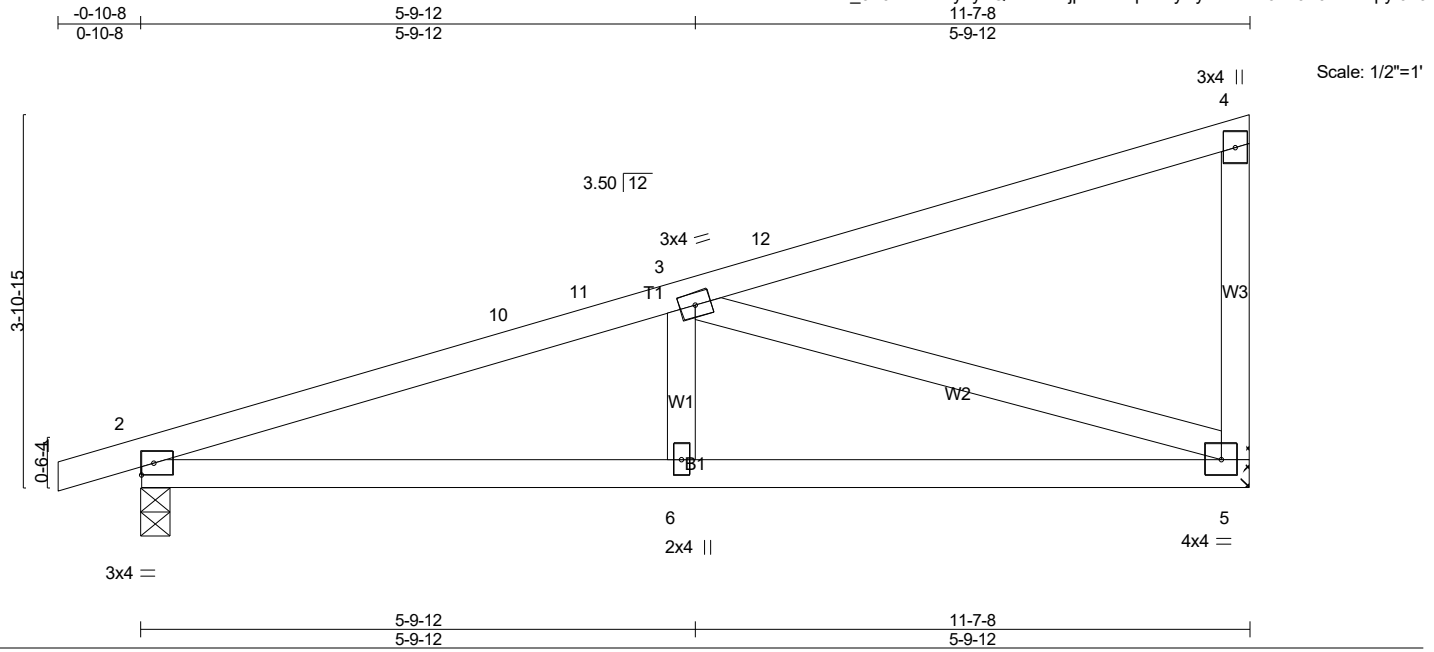


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Job	Truss	Truss Type	Qty	Ply	lot 124 PROVIDENCE CREEK 375 PROVIDENCE CREEK GARNER, NC
25-6337-R01	R05	MONOPITCH	5	1	
Job Reference (optional)					# 61060

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Jul 29 20:12:39 2025 Page 1
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LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.58	Vert(LL)	-0.04 6 >999 240	MT20		244/190	
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.07 5-6 >999 180				
TCDL	10.0	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.02 5 n/a n/a				
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-AS							
BCDL	10.0										
								Weight: 53 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.

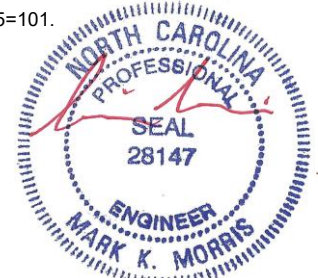
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 5=457/Mechanical, 2=514/0-3-8 (min. 0-1-8)
Max Horz 2=127(LC 10)
Max Uplift 5=-101(LC 14), 2=-96(LC 10)
Max Grav 5=578(LC 21), 2=564(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-10=-1048/228, 10-11=-973/234, 3-11=-964/237
BOT CHORD 2-6=-348/967, 5-6=-348/967
WEBS 3-5=-965/350

- NOTES-** (10)
- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; 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 6-8-2, Exterior(2E) 6-8-2 to 11-5-12 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) 2 except (jt=lb) 5=101.
 - 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.

LOAD CASE(S) Standard

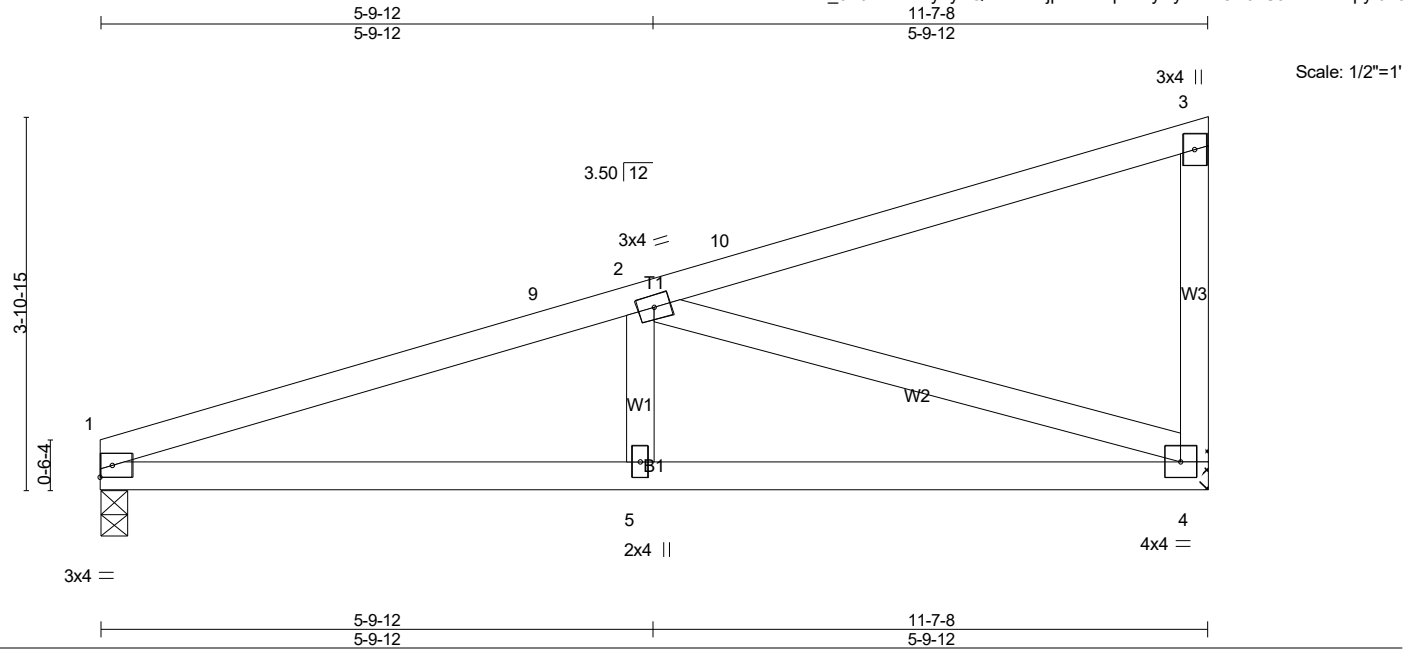


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Job	Truss	Truss Type	Qty	Ply	lot 124 PROVIDENCE CREEK 375 PROVIDENCE CREEK GARNER, NC
25-6337-R01	R06	MONOPITCH	1	1	
Job Reference (optional)					# 61060

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Jul 29 20:12:39 2025 Page 1
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LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.58	Vert(LL)	-0.04 5 >999 240	MT20		244/190	
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.07 4-5 >999 180				
TCDL	10.0	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.02 4 n/a n/a				
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-AS							
BCDL	10.0										
								Weight: 51 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.

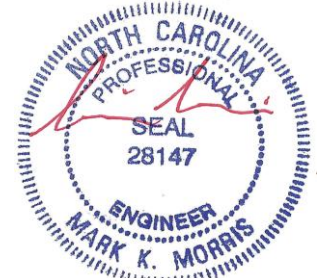
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=459/0-3-8 (min. 0-1-8), 4=459/Mechanical
Max Horz 1=115(LC 10)
Max Uplift 1=-64(LC 10), 4=-102(LC 10)
Max Grav 1=509(LC 20), 4=580(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-9=-1058/251, 2-9=-973/260
BOT CHORD 1-5=-374/976, 4-5=-374/976
WEBS 2-4=-975/377

- NOTES-** (9)
- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 4-9-10, Interior(1) 4-9-10 to 6-8-2, Exterior(2E) 6-8-2 to 11-5-12 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 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 except (jt=lb) 4=102.
 - 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.

LOAD CASE(S) Standard

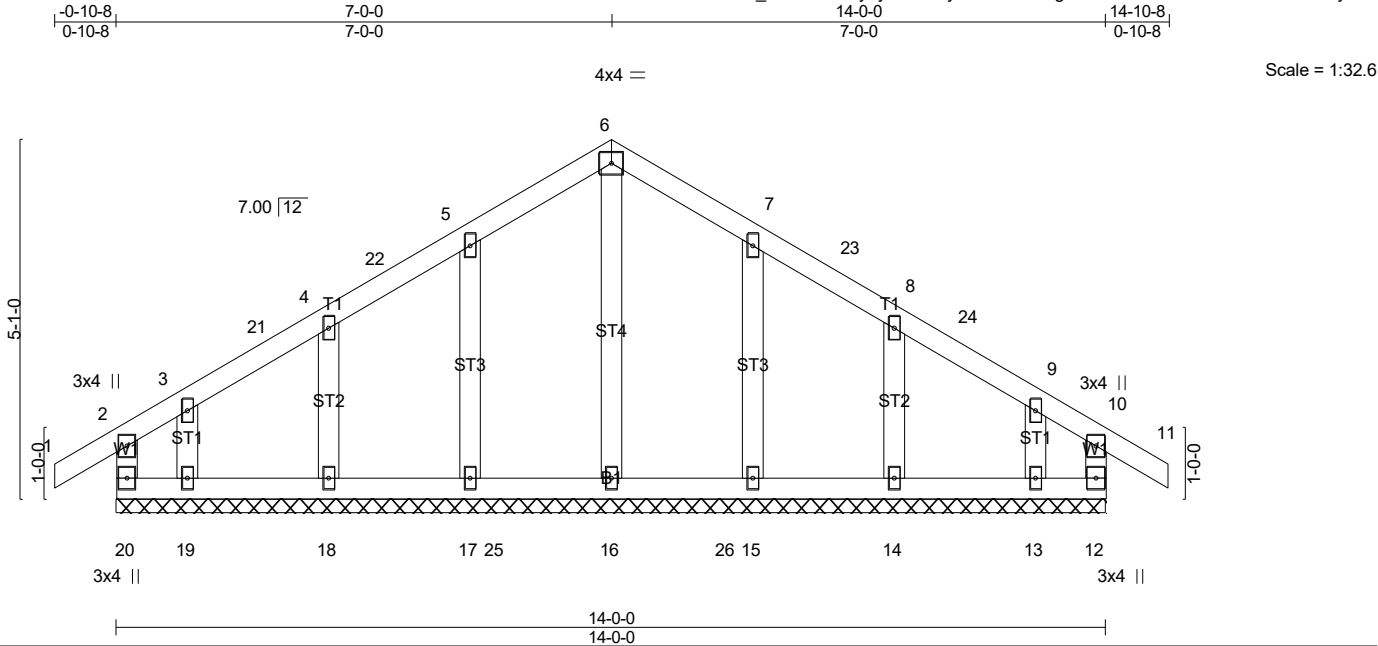


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Job	Truss	Truss Type	Qty	Ply	lot 124 PROVIDENCE CREEK 375 PROVIDENCE CREEK GARNER, NC
25-6337-R01	R07	COMMON SUPPORTED GAB	1	1	
Job Reference (optional)					# 61060

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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.12	in (loc) l/defl L/d	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.06	Vert(LL) -0.00 11 n/r 180		
TCDL 10.0	Lumber DOL 1.15	WB 0.06	Vert(CT) -0.00 11 n/r 80		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-R	Horz(CT) 0.00 12 n/a n/a		
BCDL 10.0	Code IRC2021/TPI2014			Weight: 76 lb	FT = 20%

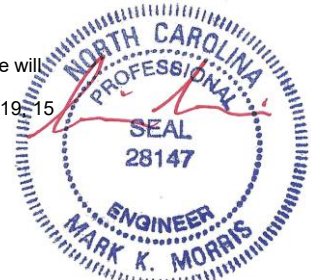
LUMBER- TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 OTHERS 2x4 SP No.3	BRACING- TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. <div>MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.</div>
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REACTIONS. All bearings 14-0-0.
(lb) - Max Horz 20=126(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 20, 12, 17, 18, 19, 15, 14, 13
Max Grav All reactions 250 lb or less at joint(s) 20, 12, 17, 18, 19, 15, 14, 13 except 16=259(LC 27)

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

- NOTES-** (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=35ft; 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 10-0-14, Corner(3E) 10-0-14 to 14-10-8 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-16; 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.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 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) 20, 12, 17, 18, 19, 15, 14, 13.

LOAD CASE(S) Standard



7/28/2025

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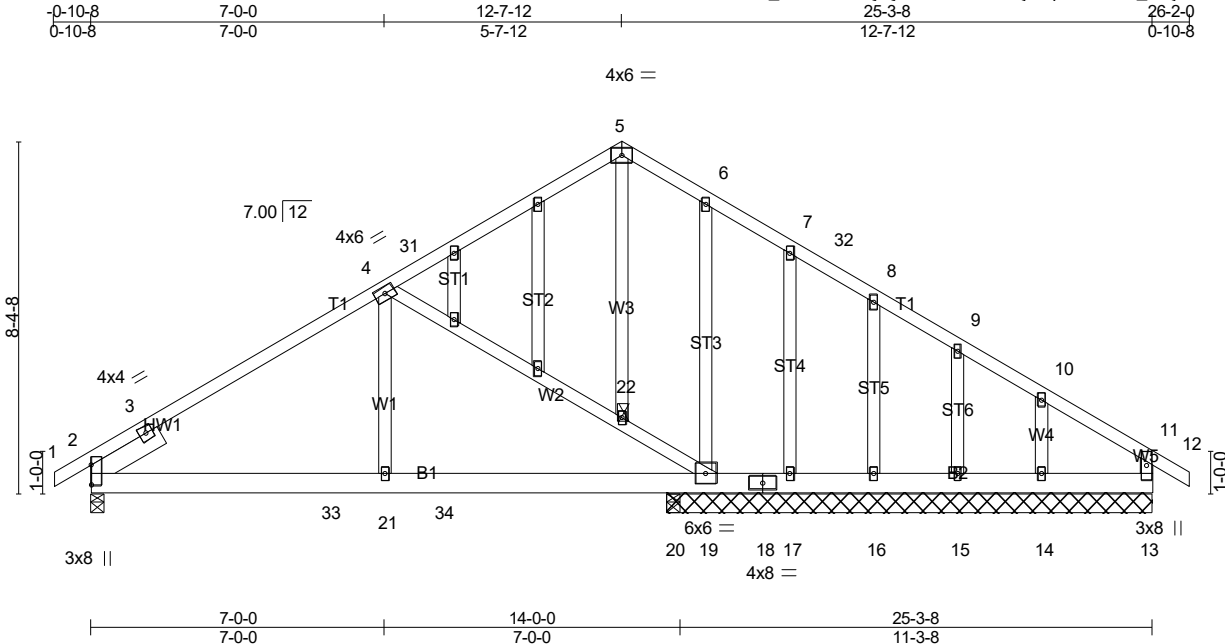


Plate Offsets (X,Y)-- [2:0-5-11,0-0-2]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.48	in (loc)	l/defl	MT20	GRIP
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.21	Vert(LL)	-0.02 21 >999		244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.41	Vert(CT)	-0.03 21-29 >999		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-AS		Horz(CT)	0.01 13 n/a		
BCDL	10.0							Weight: 180 lb	FT = 20%

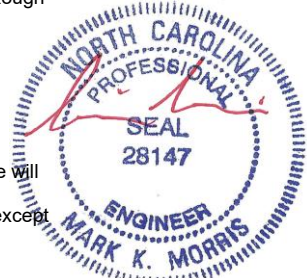
LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SP No.3	JOINTS	1 Brace at Jt(s): 22
OTHERS	2x4 SP No.3		
SLIDER	Left 2x6 SP No.2 1-11-0		

REACTIONS. All bearings 11-7-0 except (jt=length) 2=0-3-8, 20=0-3-8.
(lb) - Max Horz 2=-174(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 13, 17, 16, 15 except 2=-101(LC 14), 19=-168(LC 14), 14=-144(LC 15)
Max Grav All reactions 250 lb or less at joint(s) 16, 15, 14 except 2=767(LC 21), 13=285(LC 21), 19=410(LC 24), 17=285(LC 6), 20=368(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-741/120, 4-31=-370/71, 8-32=-253/47, 8-9=-252/48, 10-11=-269/71
BOT CHORD 2-33=-117/736, 21-33=-117/736, 21-34=-117/736, 20-34=-117/736, 19-20=-117/736
WEBS 4-22=-655/194, 19-22=-695/202, 4-21=0/282

- 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=35ft; 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 7-10-2, Exterior(2R) 7-10-2 to 17-5-6, Interior(1) 17-5-6 to 21-4-6, Exterior(2E) 21-4-6 to 26-2-0 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 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) 13, 17, 16, 15 except (jt=lb) 2=101, 19=168, 14=144.
 - 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 124 PROVIDENCE CREEK 375 PROVIDENCE CREEK GARNER, NC
25-6337-R01	R08	STR-GABLE	1	1	Job Reference (optional) # 61060

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LOAD CASE(S) Standard

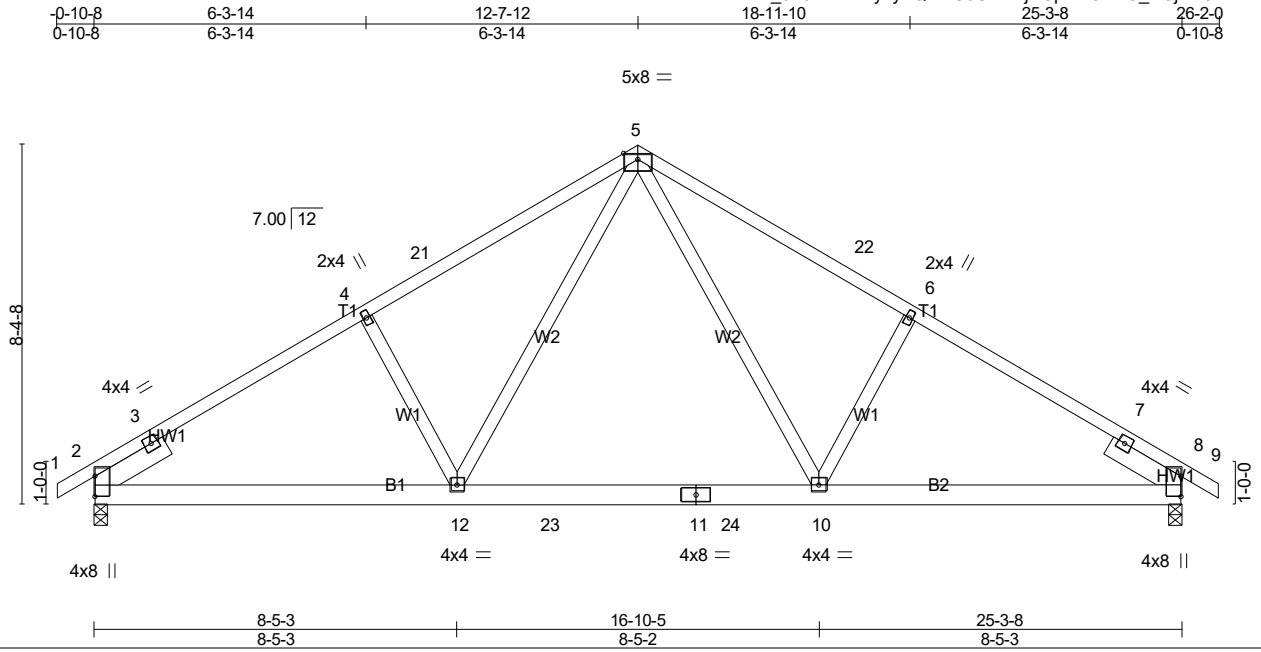


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Job	Truss	Truss Type	Qty	Ply	lot 124 PROVIDENCE CREEK 375 PROVIDENCE CREEK GARNER, NC
25-6337-R01	R09	COMMON	1	1	
Job Reference (optional)					# 61060

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Jul 29 20:12:41 2025 Page 1
ID:sco?uVwdzN_6Z0rHbcoMyuyZQFk-G8Ui7VFjDUpXDOILsG_EGj1ROwWVnUdHKzS6zhyt6e4



Scale = 1:53.7

LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.14 10-12 >999 240	MT20		244/190	
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.22 10-12 >999 180				
TCDL	10.0	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.04 8 n/a n/a				
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-AS							
BCDL	10.0										
Weight: 154 lb										FT = 20%	

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 1-11-0, Right 2x6 SP No.2 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.

REACTIONS. (lb/size) 2=1064/0-3-8 (min. 0-1-8), 8=1064/0-3-8 (min. 0-1-8)
Max Horz 2=-174(LC 12)
Max Uplift 2=-134(LC 14), 8=-134(LC 15)
Max Grav 2=1078(LC 21), 8=1078(LC 22)

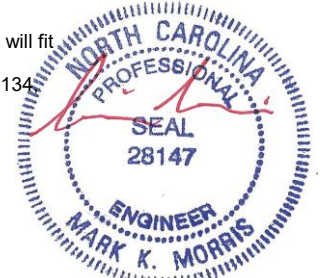
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-472/0, 3-4=-1446/210, 4-21=-1339/221, 5-21=-1259/250, 5-22=-1259/250,
6-22=-1339/221, 6-7=-1446/210, 7-8=-472/0
BOT CHORD 2-12=-184/1300, 12-23=-37/890, 11-23=-37/890, 11-24=-37/890, 10-24=-37/890,
8-10=-93/1182
WEBS 5-10=-116/586, 6-10=-365/203, 5-12=-116/586, 4-12=-365/203

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=35ft; 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 7-10-2, Exterior(2R) 7-10-2 to 17-5-6, Interior(1) 17-5-6 to 21-4-6, Exterior(2E) 21-4-6 to 26-2-0 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
- 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, 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=134, 8=134.
- 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.

LOAD CASE(S) Standard

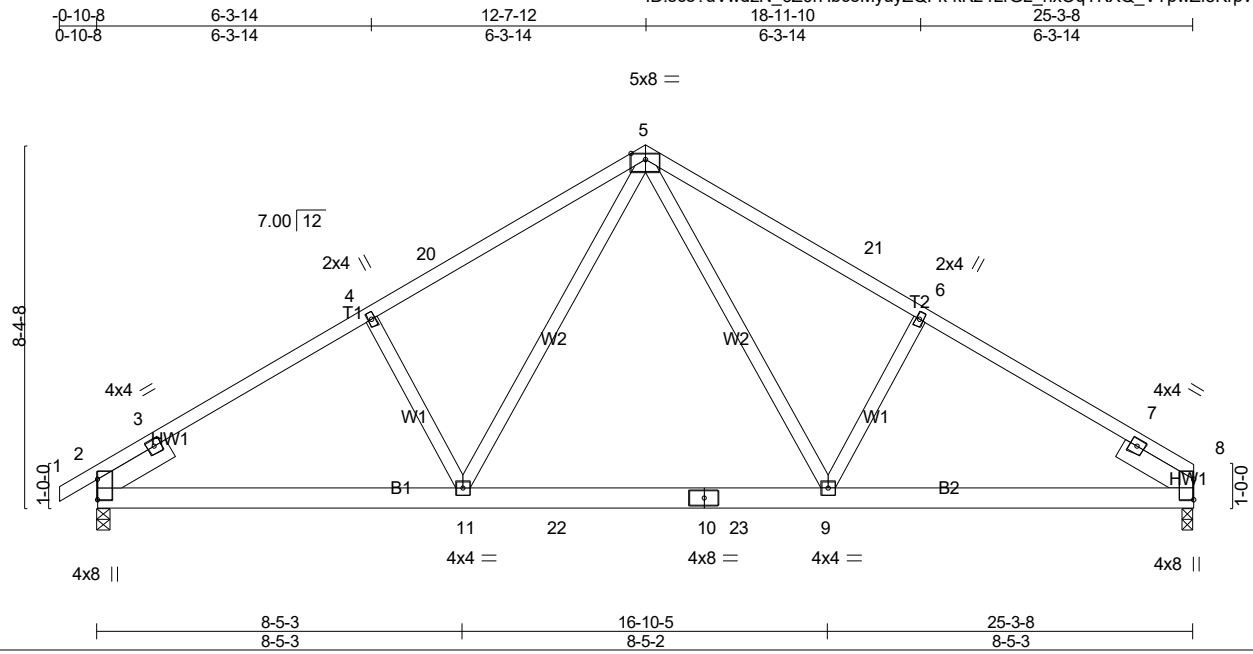


7/28/2025

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Job	Truss	Truss Type	Qty	Ply	lot 124 PROVIDENCE CREEK 375 PROVIDENCE CREEK GARNER, NC
25-6337-R01	R10	COMMON	1	1	
Job Reference (optional)					# 61060

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Jul 29 20:12:42 2025 Page 1
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Scale = 1:53.2

LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	-0.14 9-11 >999 240	MT20		244/190	
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.21 9-11 >999 180				
TCDL	10.0	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.04 8 n/a n/a				
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-AS							
BCDL	10.0										
Weight: 153 lb FT = 20%											

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 1-11-0, Right 2x6 SP No.2 1-11-0

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

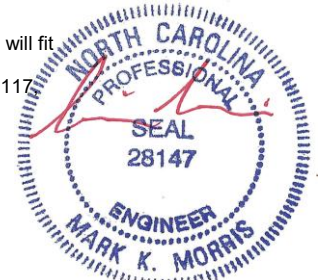
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 8=1011/0-3-8 (min. 0-1-8), 2=1065/0-3-8 (min. 0-1-8)
Max Horz2=170(LC 11)
Max Uplift8=117(LC 15), 2=134(LC 14)
Max Grav8=1024(LC 22), 2=1078(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-473/0, 3-4=-1447/210, 4-20=-1340/221, 5-20=-1260/250, 5-21=-1263/251,
6-21=-1343/222, 6-7=-1450/211, 7-8=-485/0
BOT CHORD 2-11=-192/1294, 11-22=-45/886, 10-22=-45/886, 10-23=-45/886, 9-23=-45/886,
8-9=-117/1186
WEBS 5-9=-117/589, 6-9=-364/203, 5-11=-116/585, 4-11=-363/203

- NOTES-** (10)
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=35ft; 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 7-10-2, Exterior(2R) 7-10-2 to 17-5-6, Interior(1) 17-5-6 to 20-5-14, Exterior(2E) 20-5-14 to 25-3-8 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, 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) 8=117 2=134.
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.

LOAD CASE(S) Standard

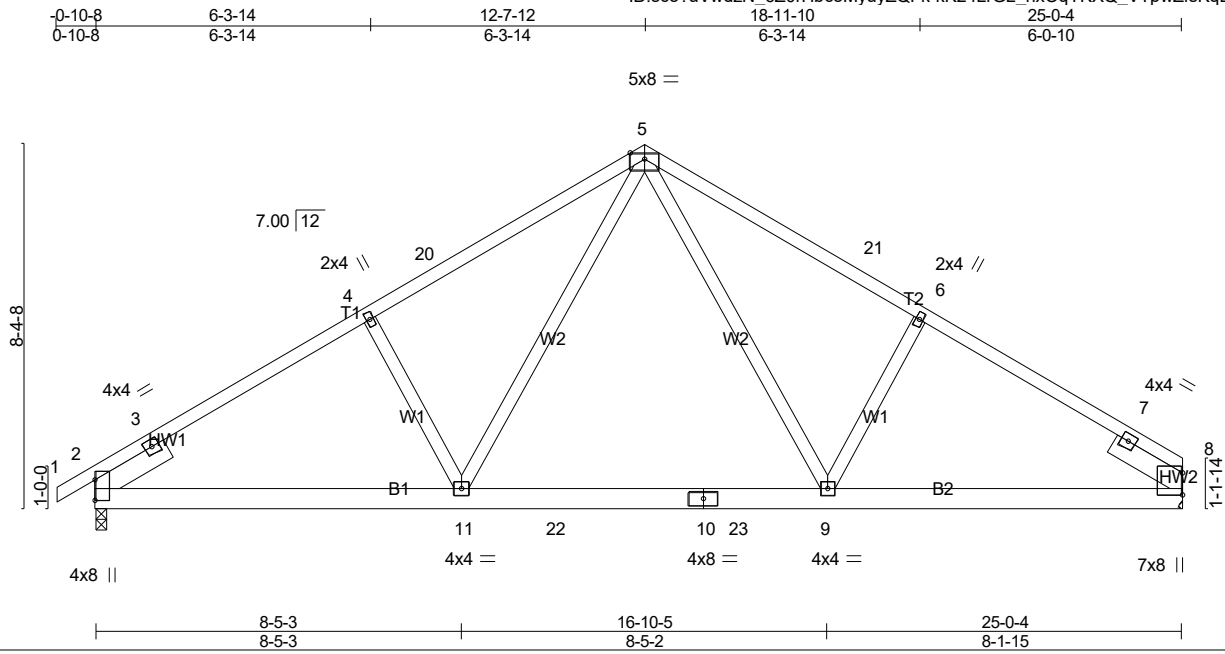


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Job	Truss	Truss Type	Qty	Ply	lot 124 PROVIDENCE CREEK 375 PROVIDENCE CREEK GARNER, NC
25-6337-R01	R11	COMMON	2	1	
Job Reference (optional)					# 61060

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Jul 29 20:12:42 2025 Page 1
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Scale = 1:53.0

LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	-0.15 9-11 >999 240	MT20		244/190	
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.23 9-11 >999 180				
TCDL	10.0	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.05 8 n/a n/a				
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-AS							
BCDL	10.0										
Weight: 151 lb FT = 20%											

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 1-11-0, Right 2x6 SP No.2 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.

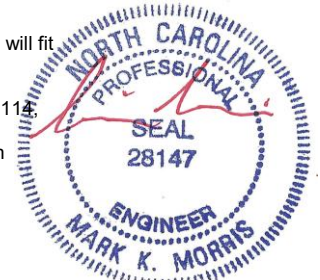
REACTIONS. (lb/size) 8=1000/Mechanical, 2=1054/0-3-8 (min. 0-1-8)
Max Horz 2=170(LC 11)
Max Uplift 8=114(LC 15), 2=133(LC 14)
Max Grav 8=1014(LC 22), 2=1069(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-464/0, 3-4=-1431/208, 4-20=-1324/219, 5-20=-1244/248, 5-21=-1212/245,
6-21=-1290/221, 6-7=-1393/204, 7-8=-264/0
BOT CHORD 2-11=-194/1279, 11-22=-47/868, 10-22=-47/868, 10-23=-47/868, 9-23=-47/868,
8-9=-115/1131
WEBS 4-11=-362/203, 5-11=-117/592, 5-9=-110/535, 6-9=-340/201

NOTES- (11)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TC DL=5.0psf; BCDL=5.0psf; h=35ft; 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 7-10-2, Exterior(2R) 7-10-2 to 17-5-6, Interior(1) 17-5-6 to 20-2-10, Exterior(2E) 20-2-10 to 25-0-4 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, 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) except (jt=lb) 8=114, 2=133.
- 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.

LOAD CASE(S) Standard



7/28/2025

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Job	Truss	Truss Type	Qty	Ply	lot 124 PROVIDENCE CREEK 375 PROVIDENCE CREEK GARNER, NC
25-6337-R01	R12	ROOF SPECIAL GIRDER	1	1	Job Reference (optional) # 61060

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Jul 29 20:12:43 2025 Page 2
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NOTES- (15)

- 11) Use Simpson Strong-Tie HHUS26-2 (14-10d Girder, 6-10d Truss, Single Ply Girder) or equivalent at 25-1-14 from the left end to connect truss(es) M08 (2 ply 2x6 SP) to front face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
- 12) Fill all nail holes where hanger is in contact with lumber.
- 13) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

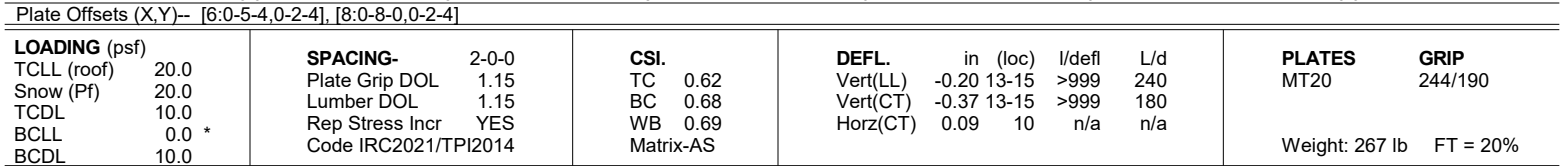
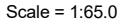
- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 5-6=-60, 6-9=-60, 9-12=-60, 21-25=-20, 1-5=-60
 - Concentrated Loads (lb)
 - Vert: 9=-149(F) 15=-1464(F) 8=-149(F) 14=-43(F) 13=-43(F) 32=-149(F) 33=-149(F) 34=-97(F) 35=-43(F) 36=-43(F) 37=-99(F)



7/28/2025

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Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Jul 29 20:12:44 2025 Page 1
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REACTIONS. (lb/size) 2=1563/0-3-8 (min. 0-1-15), 10=1563/0-3-8 (min. 0-2-0)
 Max Horz 2=-172(LC 12)
 Max Uplift 2=-150(LC 14), 10=-244(LC 15)
 Max Grav 2=1624(LC 42), 10=1692(LC 41)

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

TOP CHORD 2-3=-1024/73, 3-4=-2407/310, 4-27=-2091/308, 5-27=-1976/335, 5-28=-1912/331, 6-28=-1992/308, 6-29=-3301/470, 7-29=-3301/470, 7-30=-3301/470, 30-31=-3301/470, 8-31=-3301/470, 8-32=-2481/362, 9-32=-2526/346, 9-10=-1125/67

BOT CHORD 2-18=-198/1988, 17-18=-198/1988, 16-17=-198/1988, 15-16=-302/3281, 14-15=-300/3284, 13-14=-300/3284, 12-13=-200/2108, 12-33=-202/2107, 10-33=-202/2107

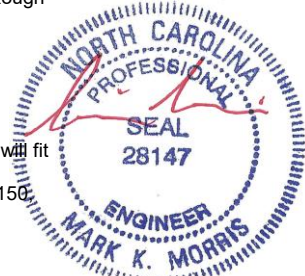
WEBS 4-16=-431/175, 5-16=-184/1635, 6-16=-2186/355, 6-13=-407/73, 7-13=-749/180, 8-13=-140/1484

- NOTES-** (11)
- 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=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-8-8 to 4-1-1, Interior(1) 4-1-1 to 7-10-2, Exterior(2R) 7-10-2 to 17-5-6, Interior(1) 17-5-6 to 26-2-6, Exterior(2R) 26-2-6 to 33-10-15, Exterior(2E) 33-10-15 to 38-8-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) 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
 - 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.
 - 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) except (jt=lb) 2=150, 10=244.
 - 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.

LOAD CASE(S) Standard

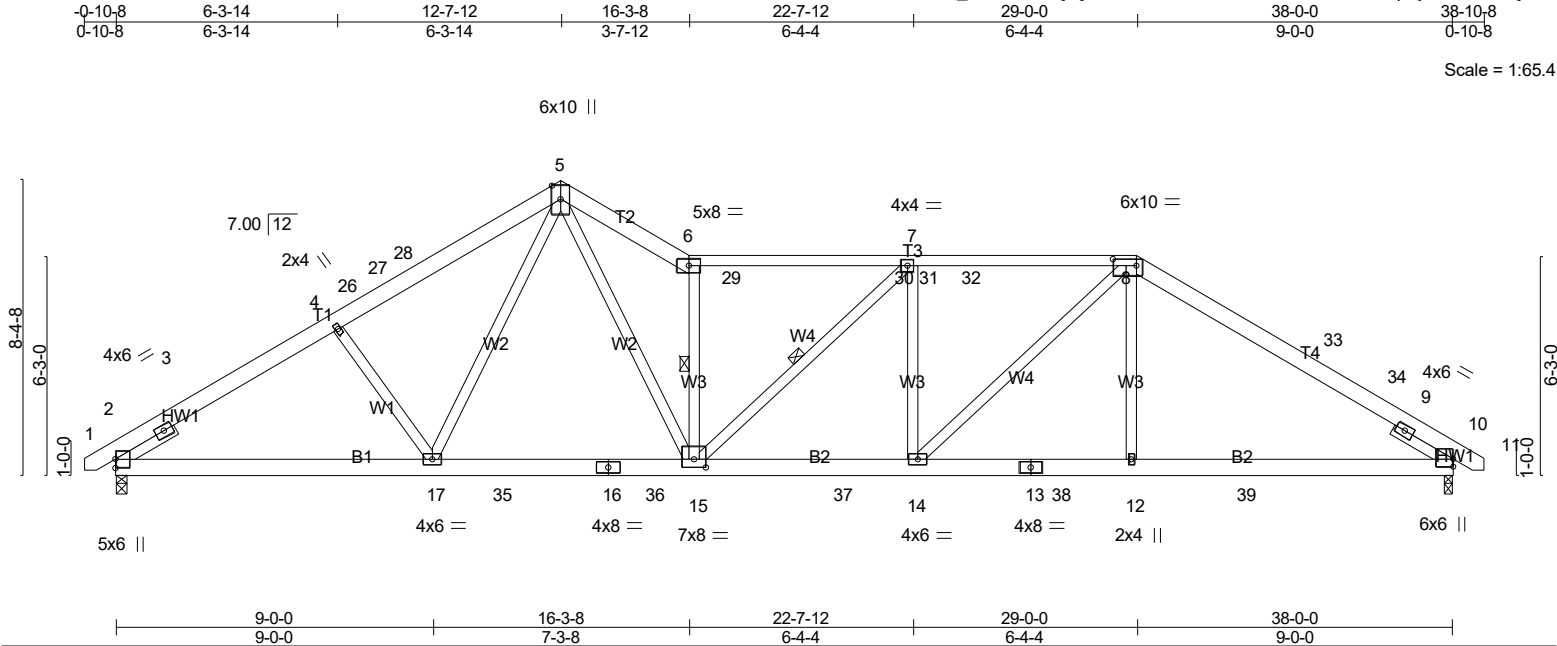
7/28/2025

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Job	Truss	Truss Type	Qty	Ply	lot 124 PROVIDENCE CREEK 375 PROVIDENCE CREEK GARNER, NC
25-6337-R01	R14	ROOF SPECIAL	1	1	
Job Reference (optional)					# 61060

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LOADING (psf)		SPACING		CSI		DEFL.		PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	-0.21 15-17 >999 240	MT20		244/190	
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.35 15-17 >999 180				
TCDL	10.0	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.09 10 n/a n/a				
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-AS							
BCDL	10.0										
								Weight: 268 lb FT = 20%			

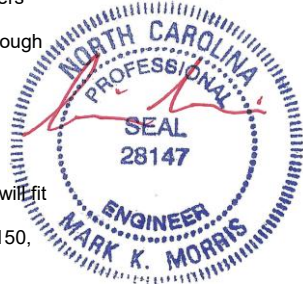
LUMBER-			BRACING-		
TOP CHORD	2x6 SP No.2 *Except*		TOP CHORD	Structural wood sheathing directly applied.	
	T3: 2x4 SP No.2		BOT CHORD	Rigid ceiling directly applied.	
BOT CHORD	2x6 SP No.2		WEBS	1 Row at midpt	6-15, 7-15
WEBS	2x4 SP No.3		<div>MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.</div>		
SLIDER	Left 2x4 SP No.3 1-11-0, Right 2x4 SP No.3 1-11-0				

REACTIONS. (lb/size) 2=1563/0-3-8 (min. 0-1-15), 10=1563/0-3-8 (min. 0-2-2)
Max Horz2=172(LC 13)
Max Uplift2=-150(LC 14), 10=-244(LC 15)
Max Grav2=1616(LC 42), 10=1787(LC 49)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-983/47, 3-4=-2455/305, 4-26=-2305/298, 26-27=-2279/303, 27-28=-2261/307,
5-28=-2242/327, 5-6=-3205/483, 6-29=-2748/374, 29-30=-2748/374, 7-30=-2748/374,
7-31=-2892/422, 31-32=-2892/422, 8-32=-2892/422, 8-33=-2547/354, 33-34=-2574/329,
9-34=-2588/315, 9-10=-1185/0
BOT CHORD 2-17=-221/2081, 17-35=-80/1785, 16-35=-80/1785, 16-36=-80/1785, 15-36=-80/1785,
15-37=-225/2892, 14-37=-225/2892, 13-14=-169/2166, 13-38=-169/2166, 12-38=-169/2166,
12-39=-171/2159, 10-39=-171/2159
WEBS 4-17=-337/202, 5-17=-93/449, 5-15=-356/2416, 6-15=-1811/342, 7-14=-589/148,
8-14=-150/1066, 8-12=0/413

- NOTES-** (11)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TC DL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-8-8 to 4-1-1, Interior(1) 4-1-1 to 7-10-2, Exterior(2R) 7-10-2 to 12-7-12, Exterior(2E) 12-7-12 to 16-3-8, Interior(1) 16-3-8 to 24-2-6, Exterior(2R) 24-2-6 to 33-10-15, Exterior(2E) 33-10-15 to 38-8-8 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.
 - 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=150, 10=244.

Continued on page 2



7/28/2025

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 124 PROVIDENCE CREEK 375 PROVIDENCE CREEK GARNER, NC
25-6337-R01	R14	ROOF SPECIAL	1	1	Job Reference (optional) # 61060

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Jul 29 20:12:45 2025 Page 2
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NOTES- (11)
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.

LOAD CASE(S) Standard



7/28/2025

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LUMBER- TOP CHORD 2x6 SP No.2 BOT CHORD 2x6 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. <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide. </div>
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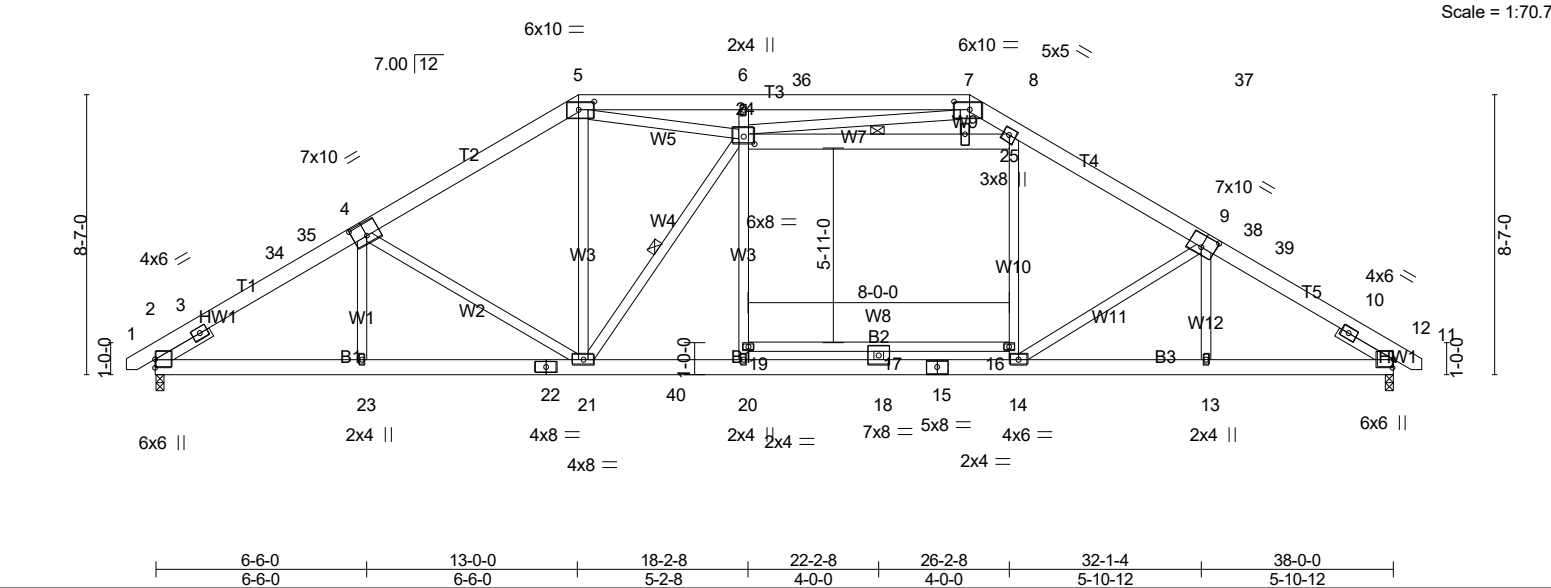
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1131/121, 3-27=-2603/315, 27-28=-2532/324, 4-28=-2416/335, 4-5=-2419/352, 5-29=-2701/388, 6-29=-2701/388, 6-30=-2701/388, 7-30=-2701/388, 7-8=-2419/352, 8-31=-2416/335, 31-32=-2532/324, 9-32=-2603/315, 9-10=-1131/121
BOT CHORD	21-18=-212/2135, 17-18=-212/2135, 16-17=-184/2087, 16-33=-184/2087, 15-33=-184/2087, 15-34=-132/2087, 14-34=-132/2087, 13-14=-132/2087, 12-13=-212/2135, 10-12=-212/2135
WEBS	4-17=-424/188, 5-17=-135/19, 5-15=-182/813, 6-15=-927/223, 7-15=-182/813, 7-13=-135/19, 8-13=-424/189

- 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=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-8-8 to 4-1-1, Exterior(2R) 4-1-1 to 17-9-7, Interior(1) 17-9-7 to 20-2-9, Exterior(2R) 20-2-9 to 33-10-15, Exterior(2E) 33-10-15 to 38-8-8 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) 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.
- 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) except (jt=lb) 2=136, 10=136.
- 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.

7/28/2025

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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	0.49			MT20	244/190
Snow (Pf)	20.0	Lumber DOL 1.15	BC	0.98				
TCDL	10.0	Rep Stress Incr YES	WB	0.68				
BCLL	0.0 *	Code IRC2021/TPI2014	Matrix-AS					
BCDL	10.0							

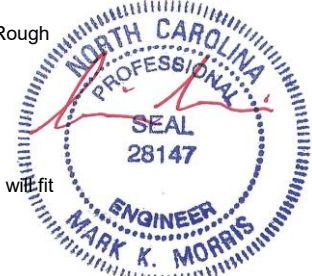
LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP No.1 *Except*	BOT CHORD Rigid ceiling directly applied.
B2: 2x4 SP No.2	WEBS 1 Row at midpt 8-24, 21-24
WEBS 2x4 SP No.3 *Except*	
W6: 2x6 SP No.2	
SLIDER Left 2x4 SP No.3 1-11-0, Right 2x4 SP No.3 1-11-0	

REACTIONS. (lb/size) 2=1735/0-3-8 (min. 0-2-7), 11=1805/0-3-8 (min. 0-2-10)
Max Horz 2=-177(LC 12)
Max Uplift 2=-56(LC 14), 11=-17(LC 15)
Max Grav 2=2088(LC 40), 11=2208(LC 46)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1354/42, 3-34=-3168/138, 34-35=-3029/149, 4-35=-3011/156, 4-5=-2765/175, 5-6=-3071/421, 6-36=-3116/445, 7-36=-3116/445, 7-8=-1979/112, 8-37=-3190/90, 9-37=-3196/61, 9-38=-3191/96, 38-39=-3207/92, 10-39=-3348/80, 10-11=-1504/7
BOT CHORD 2-23=-74/2644, 22-23=-75/2644, 21-22=-75/2644, 21-40=0/2684, 20-40=0/2684, 18-20=0/2646, 15-18=0/2646, 14-15=0/2646, 13-14=-8/2772, 11-13=-8/2770
WEBS 4-21=-569/199, 5-21=-4/979, 5-24=-592/1044, 7-24=-393/1466, 7-25=0/553, 9-14=-319/397, 19-20=0/521, 19-24=0/741, 6-24=-555/192, 14-16=0/644, 8-16=0/828, 24-25=-1428/86, 8-25=-1562/78, 17-18=-555/0, 21-24=-898/59

- NOTES- (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=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-8-8 to 4-1-1, Interior(1) 4-1-1 to 6-2-9, Exterior(2R) 6-2-9 to 31-9-7, Interior(1) 31-9-7 to 33-10-15, Exterior(2E) 33-10-15 to 38-8-8 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.
 - 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.
 - Ceiling dead load (5.0 psf) on member(s). 24-25, 8-25
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 17-19, 16-17
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 11.

Continued on page 2



7/28/2025

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Job	Truss	Truss Type	Qty	Ply	lot 124 PROVIDENCE CREEK 375 PROVIDENCE CREEK GARNER, NC
25-6337-R01	R16	ROOF TRUSS	1	1	Job Reference (optional) # 61060

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- NOTES-** (14)
- 12) 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.
- 13) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

LOAD CASE(S) Standard



7/28/2025

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Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Jul 29 20:12:48 2025 Page 1
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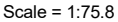


Plate Offsets (X,Y)-- [4:0-5-0,0-4-8], [5:0-5-12,0-3-0], [10:0-5-0,0-4-8], [25:0-2-0,0-2-8]

[illegible]

LUMBER-
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.1 *Except*
 B2: 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.
WEBS	1 Row at midpt 4-22, 22-25
	2 Rows at 1/3 pts 8-25

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

REACTIONS. (lb/size) 2=1736/0-3-8 (min. 0-2-9), 12=1806/0-3-8 (min. 0-2-11)
 Max Horz 2=-203(LC 12)
 Max Uplift 2=-70(LC 14), 12=-31(LC 15)
 Max Grav 2=2191(LC 48), 12=2264(LC 50)

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

TOP CHORD 2-3=-1447/11, 3-34=-3436/95, 34-35=-3387/96, 4-35=-3242/117, 4-36=-2838/104,
5-36=-2689/139, 5-37=-1845/453, 6-37=-1845/453, 6-38=-1857/473, 7-38=-1857/473,
7-8=-981/281, 8-9=-2690/120, 9-39=-3150/47, 39-40=-3220/29, 10-40=-3322/20,
10-41=-3391/51, 41-42=-3476/38, 11-42=-3524/35, 11-12=-1615/0

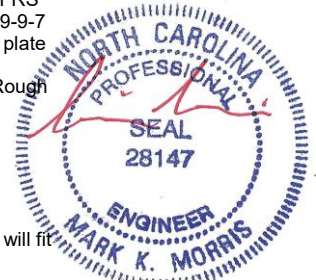
BOT CHORD 2-43=-99/2951, 24-43=-99/2951, 24-44=-99/2950, 23-44=-99/2950, 22-23=-99/2950,
22-45=0/2704, 21-45=0/2704, 19-21=0/2675, 16-19=0/2675, 15-16=0/2675, 14-15=0/2954,
12-14=0/2953

WEBS 4-22=-748/231, 5-22=-109/1526, 5-25=-1689/389, 20-21=0/600, 20-25=0/858,
6-25=-350/182, 15-17=0/663, 9-17=0/806, 8-25=-2506/115, 22-25=-1345/125, 18-19=-567/0,
10-15=-460/228, 7-25=-226/1140

NOTES- (14)

- 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=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-8-8 to 4-1-1, Interior(1) 4-1-1 to 8-2-9, Exterior(2R) 8-2-9 to 29-9-7, Interior(1) 29-9-7 to 33-10-15, Exterior(2E) 33-10-15 to 38-8-8 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) 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.
- 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) Ceiling dead load (5.0 psf) on member(s). 8-9, 8-25

Continued on page 2



7/28/2025

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Job	Truss	Truss Type	Qty	Ply	lot 124 PROVIDENCE CREEK 375 PROVIDENCE CREEK GARNER, NC
25-6337-R01	R17	STORAGE	1	1	Job Reference (optional) # 61060

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NOTES- (14)

- 10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 18-20, 17-18
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12.
- 12) 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.
- 13) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

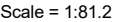
LOAD CASE(S) Standard



7/28/2025

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Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Jul 29 20:12:49 2025 Page 1
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LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.2 *Except* T2,T3: 2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x6 SP No.1 *Except* B1: 2x6 SP No.2, B3: 2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 5-21, 21-24, 8-24, 5-24
SLIDER	Left 2x4 SP No.3 1-11-0, Right 2x4 SP No.3 1-11-0	JOINTS	1 Brace at Jt(s): 24
		<div style="border: 1px solid black; padding: 5px;"> <p>MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.</p> </div>	

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

TOP CHORD 2-3=-1423/33, 3-33=-3587/197, 4-33=-3515/210, 4-34=-3451/195, 34-35=-3246/205, 5-35=-3225/210, 5-36=-1382/291, 6-36=-1295/305, 6-7=-1132/288, 7-37=-850/222, 8-37=-875/202, 8-9=-2922/214, 9-38=-3405/157, 38-39=-3418/148, 10-39=-3598/143, 10-40=-3590/184, 40-41=-3635/182, 11-41=-3705/169, 11-12=-1727/48

BOT CHORD 2-23=-253/3125, 23-42=-125/2923, 22-42=-125/2923, 22-43=-125/2923, 21-43=-125/2923, 19-21=0/2922, 16-19=0/2922, 15-16=-78/3093, 14-15=-78/3093, 12-14=-79/3100

WEBS 5-23=-54/289, 5-21=-338/565, 20-21=-110/693, 20-24=-85/851, 6-24=-105/385, 7-24=-121/625, 16-17=0/757, 9-17=0/889, 8-24=-2643/295, 5-24=-2412/431, 18-19=-385/0, 10-16=-353/200

A circular professional engineer seal for the State of North Carolina. The outer ring contains the text "NORTH CAROLINA" at the top and "ENGINEER" at the bottom. Inside the ring, the word "PROFESSIONAL" is arched above the word "SEAL". Below "SEAL" is the license number "28147". At the bottom of the seal is the name "MARK K. MORRIS". A red ink signature is written across the seal, overlapping the "PROFESSIONAL" and "SEAL" text.

7/28/2025

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Job	Truss	Truss Type	Qty	Ply	lot 124 PROVIDENCE CREEK 375 PROVIDENCE CREEK GARNER, NC
25-6337-R01	R18	PIGGYBACK BASE	4	1	Job Reference (optional) # 61060

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Jul 29 20:12:49 2025 Page 2
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NOTES- (11)

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.

LOAD CASE(S) Standard



7/28/2025

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Job	Truss	Truss Type	Qty	Ply	lot 124 PROVIDENCE CREEK 375 PROVIDENCE CREEK GARNER, NC
25-6337-R01	R19	PIGGYBACK BASE	7	1	
Job Reference (optional)					# 61060

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Jul 29 20:12:50 2025 Page 1
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-0-10-8 5-8-0 11-4-0 17-0-0 21-0-0 26-8-0 32-4-0 38-0-0 38-10-8
0-10-8 5-8-0 5-8-0 5-8-0 4-0-0 5-8-0 5-8-0 5-8-0 0-10-8

5x6 =

5x8 =

Scale = 1:72.0

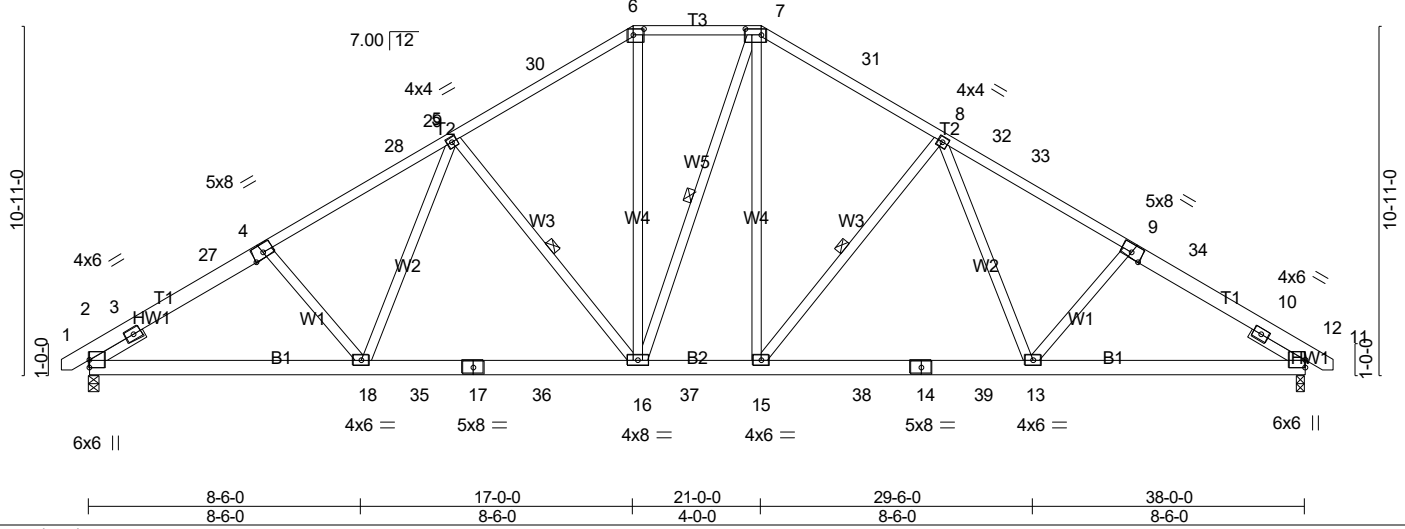


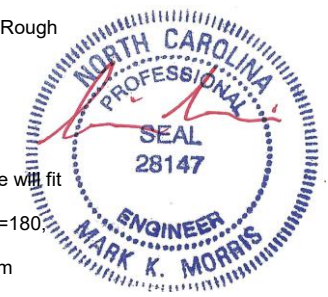
Plate Offsets (X,Y)-- [6:0-4-0,0-2-4], [7:0-6-0,0-2-4]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.70	in (loc)	l/defl	MT20	GRIP
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.73	Vert(LL)	-0.23 13-15		244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.36	Vert(CT)	-0.35 13-15		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-AS		Horz(CT)	0.10 11		
BCDL	10.0								
								Weight: 283 lb FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2 *Except*	TOP CHORD	Structural wood sheathing directly applied.
	T1: 2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied.
BOT CHORD	2x6 SP No.2	WEBS	1 Row at midpt 5-16, 7-16, 8-15
WEBS	2x4 SP No.3		
SLIDER	Left 2x4 SP No.3 1-11-0, Right 2x4 SP No.3 1-11-0		
		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.	

REACTIONS. (lb/size) 2=1563/0-3-8 (min. 0-2-6), 11=1563/0-3-8 (min. 0-2-6)
Max Horz2=230(LC 13)
Max Uplift2=-180(LC 14), 11=-180(LC 15)
Max Grav2=2028(LC 39), 11=2028(LC 39)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1251/68, 3-27=-3119/254, 4-27=-3033/275, 4-28=-2952/260, 28-29=-2711/270, 5-29=-2672/276, 5-30=-2292/285, 6-30=-2120/299, 6-7=-1839/297, 7-31=-2122/299, 8-31=-2288/285, 8-32=-2681/276, 32-33=-2713/270, 9-33=-2953/260, 9-34=-3035/276, 10-34=-3120/255, 10-11=-1246/68
BOT CHORD 2-18=-308/2671, 18-35=-186/2390, 17-35=-186/2390, 17-36=-186/2390, 16-36=-186/2390, 16-37=-17/1860, 15-37=-17/1860, 15-38=-94/2322, 14-38=-94/2322, 14-39=-94/2322, 13-39=-94/2322, 11-13=-153/2579
WEBS 5-18=-36/402, 5-16=-816/224, 6-16=-76/850, 7-15=-115/906, 8-15=-823/224, 8-13=-37/409

- NOTES-** (11)
- 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=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-8-8 to 4-1-1, Interior(1) 4-1-1 to 10-2-9, Exterior(2R) 10-2-9 to 27-9-7, Interior(1) 27-9-7 to 33-10-15, Exterior(2E) 33-10-15 to 38-8-8 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.
 - 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=180, 11=180.
 - 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 124 PROVIDENCE CREEK 375 PROVIDENCE CREEK GARNER, NC
25-6337-R01	R19	PIGGYBACK BASE	7	1	Job Reference (optional) # 61060

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LOAD CASE(S) Standard



7/28/2025

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Job	Truss	Truss Type	Qty	Ply	lot 124 PROVIDENCE CREEK 375 PROVIDENCE CREEK GARNER, NC
25-6337-R01	R20	PIGGYBACK BASE SUPPO	1	1	
Job Reference (optional)					# 61060

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ID:sco?uVwdzN_6Z0rHbcoMyuyZQFk-35UEwN?sY36PwWGSNAagqRH7y077?UmdWteJ6yt6dw

-0-10-8 17-0-0 21-0-0 38-0-0 38-10-8
0-10-8 17-0-0 4-0-0 17-0-0 0-10-8

Scale = 1:72.2

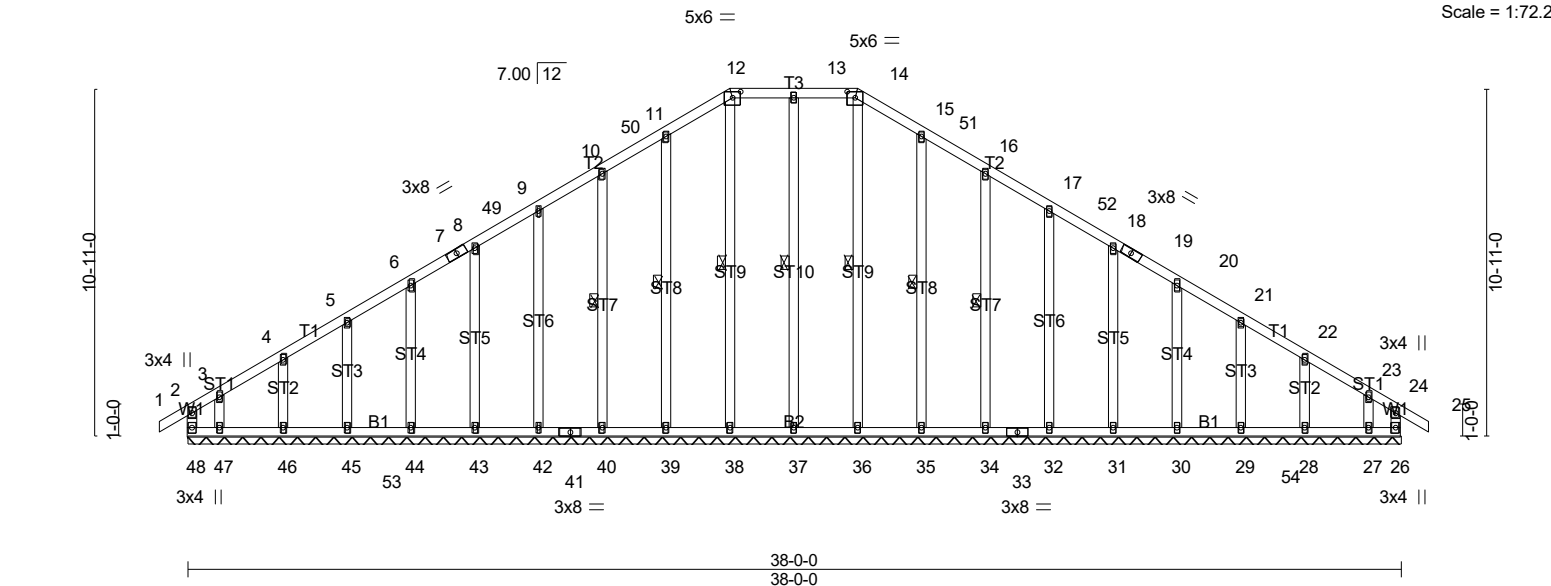


Plate Offsets (X,Y)-- [12:0-3-0,0-2-5], [14:0-3-0,0-2-5]

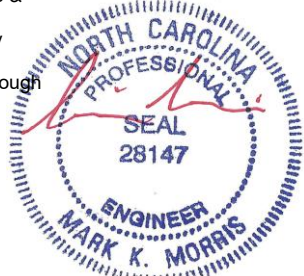
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	TC 0.20	Vert(LL)	-0.00	25	n/r	MT20	244/190
Snow (Pf)	20.0	BC 0.10	Vert(CT)	-0.00	25	n/r		
TCDL	10.0	WB 0.20	Horz(CT)	0.01	26	n/a		
BCLL	0.0 *	Matrix-R						
BCDL	10.0							
							Weight: 294 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 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	WEBS 1 Row at midpt 13-37, 12-38, 11-39, 10-40, 14-36, 15-35, 16-34
OTHERS 2x4 SP No.3	

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

REACTIONS. All bearings 38-0-0.
(lb) - Max Horz 48=-255(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 37, 39, 40, 42, 43, 44, 45, 46, 35, 34, 32, 31, 30, 29, 28 except 48=-197(LC 10), 26=-107(LC 11), 47=-188(LC 14), 27=-155(LC 15)
Max Grav All reactions 250 lb or less at joint(s) 48, 26, 45, 46, 47, 29, 28, 27 except 37=313(LC 44), 38=277(LC 53), 39=338(LC 47), 40=320(LC 47), 42=323(LC 47), 43=320(LC 47), 44=330(LC 47), 36=265(LC 51), 35=337(LC 49), 34=320(LC 49), 32=323(LC 49), 31=320(LC 49), 30=330(LC 49)
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 10-50=-132/250, 11-50=-119/255, 11-12=-158/297, 12-13=-138/272, 13-14=-138/272, 14-15=-158/297, 15-51=-119/255, 16-51=-132/250

- NOTES-** (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=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 3-11-2, Exterior(2N) 3-11-2 to 12-2-14, Corner(3R) 12-2-14 to 25-9-2, Exterior(2N) 25-9-2 to 34-0-14, Corner(3E) 34-0-14 to 38-10-8 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-16; 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 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
- Continued on page 2



7/28/2025

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Job	Truss	Truss Type	Qty	Ply	lot 124 PROVIDENCE CREEK 375 PROVIDENCE CREEK GARNER, NC
25-6337-R01	R20	PIGGYBACK BASE SUPPO	1	1	Job Reference (optional) # 61060

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Jul 29 20:12:51 2025 Page 2
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NOTES- (15)

- 12) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 13) * 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.
 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 37, 39, 40, 42, 43, 44, 45, 46, 35, 34, 32, 31, 30, 29, 28 except (jt=lb) 48=197, 26=107, 47=188, 27=155.

LOAD CASE(S) Standard

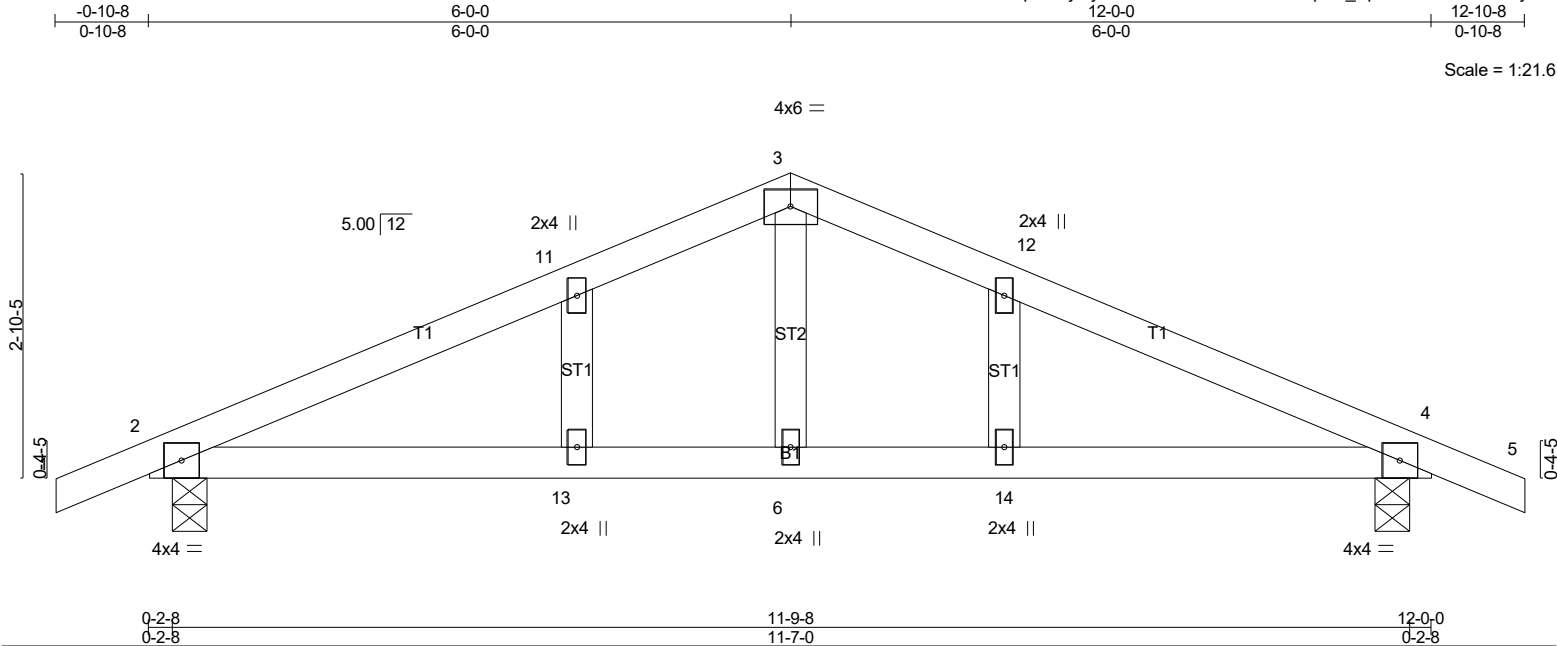


7/28/2025

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Job	Truss	Truss Type	Qty	Ply	lot 124 PROVIDENCE CREEK 375 PROVIDENCE CREEK GARNER, NC
25-6337-R01	SP01	COMMON SUPPORTED GAB	1	1	
Job Reference (optional)					# 61060

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Jul 29 20:12:52 2025 Page 1
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.72	in (loc) l/defl L/d	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.87	Vert(LL) 0.09 2-6 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.11	Vert(CT) -0.10 4-6 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.01 4 n/a n/a		
BCDL 10.0	Code IRC2021/TPI2014			Weight: 48 lb	FT = 20%

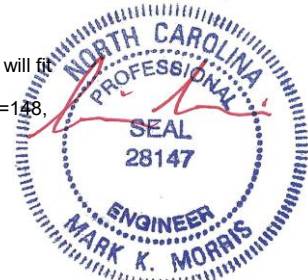
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-1-5 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-6-12 oc bracing.
OTHERS 2x4 SP No.3	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=529/0-4-0 (min. 0-1-8), 4=529/0-4-0 (min. 0-1-8)
Max Horz 2=43(LC 18)
Max Uplift 2=-148(LC 10), 4=-148(LC 11)
Max Grav 2=623(LC 21), 4=623(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-11=-786/862, 3-11=-650/874, 3-12=-650/874, 4-12=-786/862
BOT CHORD 2-13=-704/619, 6-13=-704/619, 6-14=-704/619, 4-14=-704/619
WEBS 3-6=-418/278

- NOTES-** (11)
- 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=35ft; 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 8-0-14, Corner(3E) 8-0-14 to 12-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) 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
 - 5) Unbalanced snow loads have been considered for this design.
 - 6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 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) except (jt=lb) 2=148, 4=148.

LOAD CASE(S) Standard

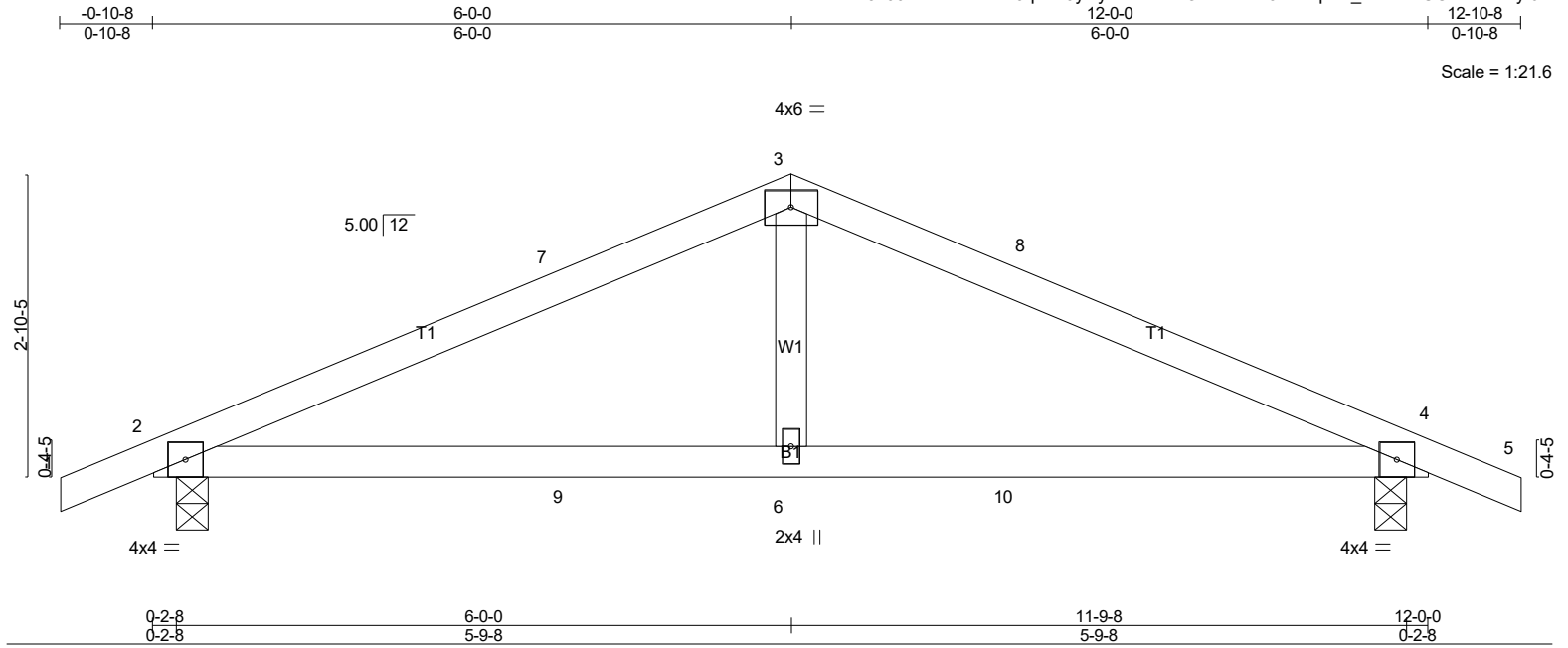


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Job	Truss	Truss Type	Qty	Ply	lot 124 PROVIDENCE CREEK 375 PROVIDENCE CREEK GARNER, NC
25-6337-R01	SP02	COMMON	5	1	
Job Reference (optional)					# 61060

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Jul 29 20:12:52 2025 Page 1
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LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	0.09	MT20		244/190	
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.10				
TCDL	10.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.01				
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-SH							
BCDL	10.0										
								Weight: 44 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 4-0-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-8-9 oc bracing.

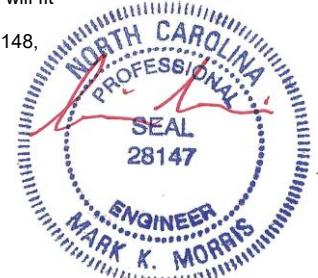
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=530/0-3-8 (min. 0-1-8), 4=530/0-3-8 (min. 0-1-8)
Max Horz 2=43(LC 14)
Max Uplift 2=-148(LC 10), 4=-148(LC 11)
Max Grav 2=624(LC 21), 4=624(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-7=-791/824, 3-7=-655/836, 3-8=-655/836, 4-8=-791/824
BOT CHORD 2-9=-681/625, 6-9=-681/625, 6-10=-681/625, 4-10=-681/625
WEBS 3-6=-407/280

- NOTES-** (9)
- 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=35ft; 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 8-0-14, Exterior(2E) 8-0-14 to 12-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and 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.
 - 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) except (jt=lb) 2=148, 4=148.

LOAD CASE(S) Standard

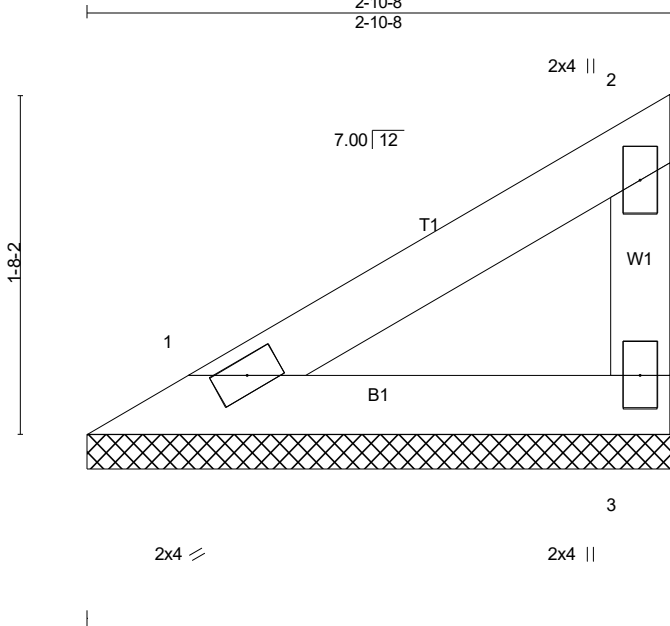


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Job	Truss	Truss Type	Qty	Ply	lot 124 PROVIDENCE CREEK 375 PROVIDENCE CREEK GARNER, NC
25-6337-R01	V01	Valley	1	1	
Job Reference (optional)					# 61060

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Jul 29 20:12:52 2025 Page 1
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Scale = 1:11.4

LOADING (psf)	SPACING-	CS.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.09	Vert(CT)	n/a	-	n/a	999		
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: 10 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 2-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

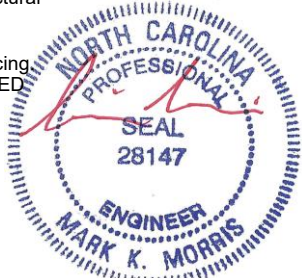
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=88/2-10-8 (min. 0-1-8), 3=88/2-10-8 (min. 0-1-8)
Max Horz 1=44(LC 14)
Max Uplift 1=3(LC 14), 3=29(LC 14)
Max Grav 1=114(LC 20), 3=114(LC 20)

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

- NOTES-** (8-11)
- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; 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) 1, 3.
 - 8) 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.
 - 9) 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.
 - 10) 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.
 - 11) 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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