

Mark Morris, P.E.

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843 209-5784, Fax (866)-213-4614

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

AST #: 61068
JOB: 25-6341-R01
JOB NAME: LOT 138 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.
31 Truss Design(s)

Trusses:

PB01, PB02, PB03, R01, R02, R03, R04, R05, R06, R07, R08, R09, R10, R11, R12, R13, SP01, SP02, SPJ01, SPJ02, SPJ03, VS01, VS02, VS03, VT01, VT02, VT03, VT04, VT05, VT06, VT07



7/28/2025

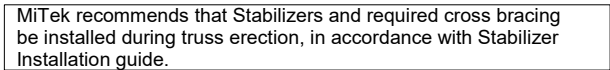
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My license renewal date for the state of North Carolina is 12/31/2025

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Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Jul 29 20:24:05 2025 Page 1
ID:kHdPkcON9g3 0lfrDBlgrZexCS-FkgHhNXm8e UGV2oxwGe?yMUSE2 2tqzcN8J 2yt6TO



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Job	Truss	Truss Type	Qty	Ply	LOT 138 PROVIDENCE CREEK 398 PROVIDENCE CREEK DRIVE GARNER, NC
25-6341-R01	PB01	GABLE	2	1	Job Reference (optional) # 61068

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Jul 29 20:24:06 2025 Page 2
ID:kHdPkcON9g3_0lfrDBlgKRzexCS-jwNfvjYOvy6Lufd?UentXAufC2ODnK36r1usWUyt6TN

- 13) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
- 14) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
- 15) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
- 16) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

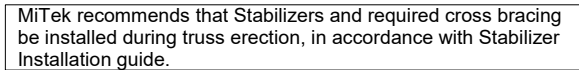
LOAD CASE(S) Standard



7/28/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 138 PROVIDENCE CREEK 398 PROVIDENCE CREEK DRIVE GARNER, NC
25-6341-R01	PB02	GABLE	19	1	Job Reference (optional) # 61068

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Jul 29 20:07 2025 Page 2
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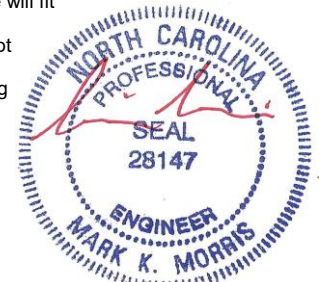
LOAD CASE(S) Standard



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Job	Truss	Truss Type	Qty	Ply	LOT 138 PROVIDENCE CREEK 398 PROVIDENCE CREEK DRIVE GARNER, NC
25-6341-R01	PB03	GABLE	5	1	Job Reference (optional) # 61068

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Jul 29 20:24:08 2025 Page 2
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LOAD CASE(S) Standard

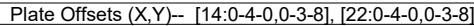


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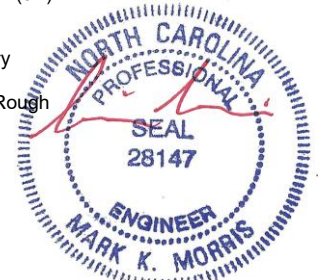


LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x4 SP No.3	WEBS	1 Row at midpt
SLIDER	Left 2x4 SP No.3 1-11-0, Right 2x4 SP No.3 1-11-0		18-51, 17-52, 16-53, 15-54, 14-55, 13-56, 12-57, 19-50, 20-48, 21-47, 22-46, 23-45, 24-44

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

TOP CHORD 12-13=-124/284, 13-14=-140/319, 14-15=-131/306, 15-16=-131/306, 16-17=-131/306,
17-18=-131/306, 18-19=-131/306, 19-20=-131/306, 20-21=-131/306, 21-22=-131/306,
22-23=-140/319, 23-24=-124/284

Continued on page 2



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Job	Truss	Truss Type	Qty	Ply	LOT 138 PROVIDENCE CREEK 398 PROVIDENCE CREEK DRIVE GARNER, NC
25-6341-R01	R01	Piggyback Base Supported Gable	1	1	Job Reference (optional) # 61068

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Jul 29 20:24:11 2025 Page 2
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- NOTES-** (14-17)
- 12) * 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.
 - 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 51, 52, 53, 54, 56, 57, 59, 60, 61, 62, 63, 64, 50, 48, 47, 45, 44, 42, 41, 40, 39, 38, 37 except (jt=lb) 65=127, 36=110.
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LOAD CASE(S) Standard



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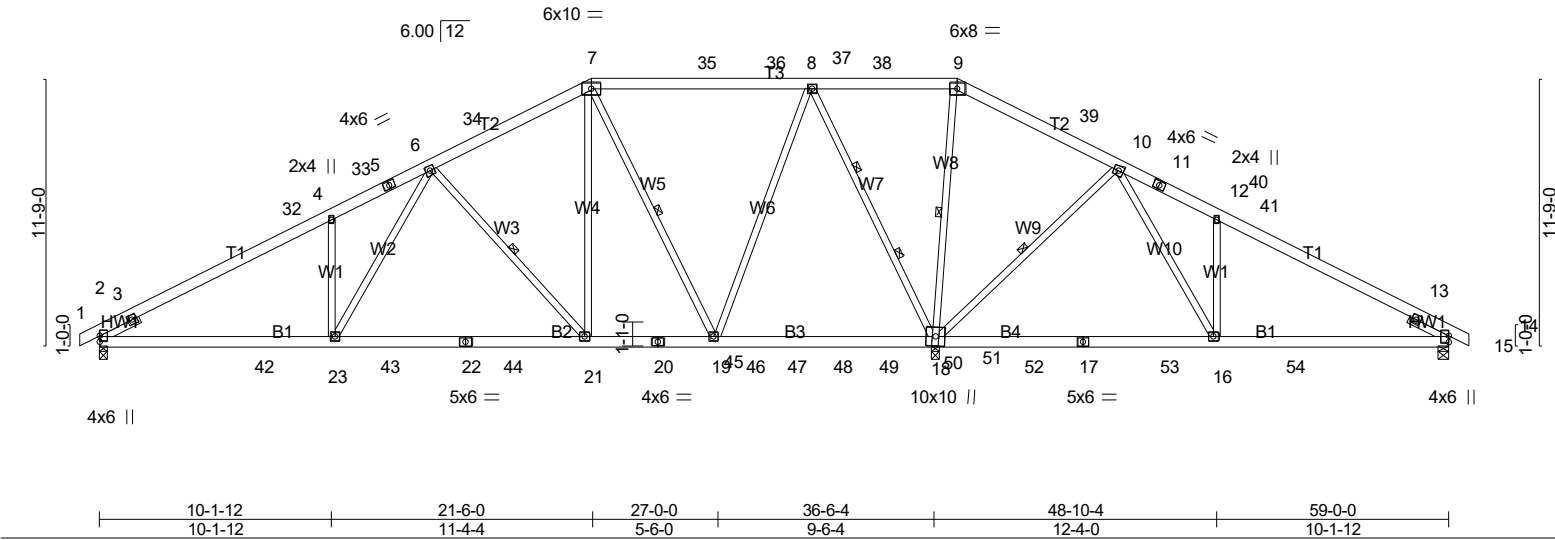
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Job	Truss	Truss Type	Qty	Ply	LOT 138 PROVIDENCE CREEK 398 PROVIDENCE CREEK DRIVE GARNER, NC
25-6341-R01	R02	Piggyback Base	2	1	
Job Reference (optional)					# 61068

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-0-10-8	10-1-12	14-5-5	21-6-0	31-0-0	37-6-0	44-6-11	48-10-4	59-0-0	59-10-8
0-10-8	10-1-12	4-3-9	7-0-11	9-6-0	6-6-0	7-0-11	4-3-9	10-1-12	0-10-8

Scale = 1:100.8



Job	Truss	Truss Type	Qty	Ply	LOT 138 PROVIDENCE CREEK 398 PROVIDENCE CREEK DRIVE GARNER, NC
25-6341-R01	R02	Piggyback Base	2	1	
					Job Reference (optional) # 61068

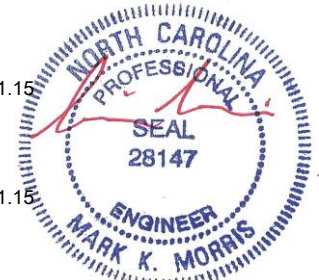
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ID: kHdPkC0N9g3_0lfrDBlgKRzexCS-0GJIN6doF5?LEkflPcPWJehi3sc0wG58Sd4kGayt6TG

NOTES- (17-20)

- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Bearing at joint(s) 18 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18 except (jt=lb) 2=215, 14=203.
- 12) Load case(s) 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 13) MULTIPLE LOADCASES – This design is the composite result of multiple load cases.
- 14) User moving load cases exist: Review the load cases for details.
- 15) 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.
- 16) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
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LOAD CASE(S) Standard Except:

- 109) Reversal: 1st User Defined Moving Load - Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-60(F), 7-9=-60(F), 9-15=-60(F), 24-28=-20(F)
Concentrated Loads (lb)
Vert: 19=-150 47=-150
- 110) Reversal: 2nd User Defined Moving Load - Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-60(F), 7-9=-60(F), 9-15=-60(F), 24-28=-20(F)
Concentrated Loads (lb)
Vert: 47=-150 48=-150
- 111) Reversal: 3rd User Defined Moving Load - Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-60(F), 7-9=-60(F), 9-15=-60(F), 24-28=-20(F)
Concentrated Loads (lb)
Vert: 48=-150 49=-150
- 112) Reversal: 4th User Defined Moving Load - Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-60(F), 7-9=-60(F), 9-15=-60(F), 24-28=-20(F)
Concentrated Loads (lb)
Vert: 49=-150 51=-150
- 113) Reversal: 5th User Defined Moving Load - Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-60(F), 7-9=-60(F), 9-15=-60(F), 24-28=-20(F)
Concentrated Loads (lb)
Vert: 18=-150 50=-150
- 114) Reversal: 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-15=-32(F=-20), 24-28=-20(F)
Concentrated Loads (lb)
Vert: 19=-150 47=-150
- 115) Reversal: 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-32=-60(F=-20), 7-32=-101(F=-20), 7-9=-32(F=-20), 9-41=-101(F=-20), 15-41=-60(F=-20), 24-28=-20(F)
Concentrated Loads (lb)
Vert: 19=-150 47=-150
- 116) Reversal: 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-15=-32(F=-20), 24-28=-20(F)
Concentrated Loads (lb)
Vert: 19=-150 47=-150
- 117) Reversal: 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-32=-60(F=-20), 7-32=-101(F=-20), 7-9=-32(F=-20), 9-41=-101(F=-20), 15-41=-60(F=-20), 24-28=-20(F)
Concentrated Loads (lb)
Vert: 19=-150 47=-150
- 118) Reversal: 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-15=-32(F=-20), 24-28=-20(F)
Concentrated Loads (lb)
Vert: 19=-150 47=-150
- 119) Reversal: 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-32=-60(F=-20), 7-32=-101(F=-20), 7-9=-32(F=-20), 9-41=-101(F=-20), 15-41=-60(F=-20), 24-28=-20(F)



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7/28/2025

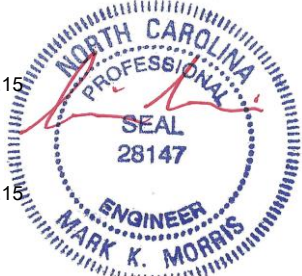
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Job	Truss	Truss Type	Qty	Ply	LOT 138 PROVIDENCE CREEK 398 PROVIDENCE CREEK DRIVE GARNER, NC
25-6341-R01	R02	Piggyback Base	2	1	
					Job Reference (optional) # 61068

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Jul 29 20:24:13 2025 Page 3
ID:kHdPkC0N9g3_0lfrDBlgKRzexCS-0GJIN6doF5?LEkflPcPWJehi3sc0wG58Sd4kGayt6TG

LOAD CASE(S)

- Concetrated Loads (lb)
Vert: 19=-150 47=-150
- 120) Reversal: 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-15=-32(F=-20), 24-28=-20(F)
Concetrated Loads (lb)
Vert: 19=-150 47=-150
- 121) Reversal: 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-32=-60(F=-20), 7-32=-101(F=-20), 7-9=-32(F=-20), 9-41=-101(F=-20), 15-41=-60(F=-20), 24-28=-20(F)
Concetrated Loads (lb)
Vert: 19=-150 47=-150
- 122) Reversal: 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-15=-32(F=-20), 24-28=-20(F)
Concetrated Loads (lb)
Vert: 19=-150 47=-150
- 123) Reversal: 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-32=-60(F=-20), 7-32=-101(F=-20), 7-9=-32(F=-20), 9-41=-101(F=-20), 15-41=-60(F=-20), 24-28=-20(F)
Concetrated Loads (lb)
Vert: 19=-150 47=-150
- 124) Reversal: 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-15=-32(F=-20), 24-28=-20(F)
Concetrated Loads (lb)
Vert: 19=-150 47=-150
- 125) Reversal: 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-32=-60(F=-20), 7-32=-101(F=-20), 7-9=-32(F=-20), 9-41=-101(F=-20), 15-41=-60(F=-20), 24-28=-20(F)
Concetrated Loads (lb)
Vert: 19=-150 47=-150
- 126) Reversal: 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-15=-32(F=-20), 24-28=-20(F)
Concetrated Loads (lb)
Vert: 19=-150 47=-150
- 127) Reversal: 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-32=-60(F=-20), 7-32=-101(F=-20), 7-9=-32(F=-20), 9-41=-101(F=-20), 15-41=-60(F=-20), 24-28=-20(F)
Concetrated Loads (lb)
Vert: 19=-150 47=-150
- 128) Reversal: 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-15=-32(F=-20), 24-28=-20(F)
Concetrated Loads (lb)
Vert: 19=-150 47=-150
- 129) Reversal: 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-32=-60(F=-20), 7-32=-101(F=-20), 7-9=-32(F=-20), 9-41=-101(F=-20), 15-41=-60(F=-20), 24-28=-20(F)
Concetrated Loads (lb)
Vert: 19=-150 47=-150
- 130) Reversal: 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-15=-32(F=-20), 24-28=-20(F)
Concetrated Loads (lb)
Vert: 19=-150 47=-150
- 131) Reversal: 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-32=-60(F=-20), 7-32=-101(F=-20), 7-9=-32(F=-20), 9-41=-101(F=-20), 15-41=-60(F=-20), 24-28=-20(F)
Concetrated Loads (lb)
Vert: 19=-150 47=-150
- 132) Reversal: 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-15=-32(F=-20), 24-28=-20(F)
Concetrated Loads (lb)
Vert: 19=-150 47=-150
- 133) Reversal: 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-32=-60(F=-20), 7-32=-101(F=-20), 7-9=-32(F=-20), 9-41=-101(F=-20), 15-41=-60(F=-20), 24-28=-20(F)
Concetrated Loads (lb)
Vert: 19=-150 47=-150
- 134) Reversal: 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-15=-32(F=-20), 24-28=-20(F)



Continued on page 4

7/28/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 138 PROVIDENCE CREEK 398 PROVIDENCE CREEK DRIVE GARNER, NC
25-6341-R01	R02	Piggyback Base	2	1	
					Job Reference (optional) # 61068

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Jul 29 20:24:13 2025 Page 4
ID:kHdPkC0N9g3_0lfrDBlgKRzexCS-0GJIN6doF5?LEkflPcPWJehi3sc0wG58Sd4kGayt6TG

LOAD CASE(S)

- Concentrated Loads (lb)
Vert: 19=-150 47=-150
- 135) Reversal: 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-32=-60(F=-20), 7-32=-101(F=-20), 7-9=-32(F=-20), 9-41=-101(F=-20), 15-41=-60(F=-20), 24-28=-20(F)
Concentrated Loads (lb)
Vert: 19=-150 47=-150
- 136) Reversal: 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-15=-32(F=-20), 24-28=-20(F)
Concentrated Loads (lb)
Vert: 19=-150 47=-150
- 137) Reversal: 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-32=-60(F=-20), 7-32=-101(F=-20), 7-9=-32(F=-20), 9-41=-101(F=-20), 15-41=-60(F=-20), 24-28=-20(F)
Concentrated Loads (lb)
Vert: 19=-150 47=-150
- 138) 1st User Defined Moving Load - Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-60(F), 7-9=-60(F), 9-15=-60(F), 24-28=-20(F)
Concentrated Loads (lb)
Vert: 19=-150 47=-150
- 139) 2nd User Defined Moving Load - Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-60(F), 7-9=-60(F), 9-15=-60(F), 24-28=-20(F)
Concentrated Loads (lb)
Vert: 47=-150 48=-150
- 140) 3rd User Defined Moving Load - Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-60(F), 7-9=-60(F), 9-15=-60(F), 24-28=-20(F)
Concentrated Loads (lb)
Vert: 48=-150 49=-150
- 141) 4th User Defined Moving Load - Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-60(F), 7-9=-60(F), 9-15=-60(F), 24-28=-20(F)
Concentrated Loads (lb)
Vert: 49=-150 51=-150
- 142) 5th User Defined Moving Load - Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-60(F), 7-9=-60(F), 9-15=-60(F), 24-28=-20(F)
Concentrated Loads (lb)
Vert: 18=-150 50=-150
- 143) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-15=-32(F=-20), 24-28=-20(F)
Concentrated Loads (lb)
Vert: 19=-150 47=-150
- 144) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-32=-60(F=-20), 7-32=-101(F=-20), 7-9=-32(F=-20), 9-41=-101(F=-20), 15-41=-60(F=-20), 24-28=-20(F)
Concentrated Loads (lb)
Vert: 19=-150 47=-150
- 145) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-15=-32(F=-20), 24-28=-20(F)
Concentrated Loads (lb)
Vert: 19=-150 47=-150
- 146) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-32=-60(F=-20), 7-32=-101(F=-20), 7-9=-32(F=-20), 9-41=-101(F=-20), 15-41=-60(F=-20), 24-28=-20(F)
Concentrated Loads (lb)
Vert: 19=-150 47=-150
- 147) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-15=-32(F=-20), 24-28=-20(F)
Concentrated Loads (lb)
Vert: 19=-150 47=-150
- 148) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-32=-60(F=-20), 7-32=-101(F=-20), 7-9=-32(F=-20), 9-41=-101(F=-20), 15-41=-60(F=-20), 24-28=-20(F)
Concentrated Loads (lb)
Vert: 19=-150 47=-150
- 149) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-15=-32(F=-20), 24-28=-20(F)

Continued on page 5



7/28/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 138 PROVIDENCE CREEK 398 PROVIDENCE CREEK DRIVE GARNER, NC
25-6341-R01	R02	Piggyback Base	2	1	
					Job Reference (optional) # 61068

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Jul 29 20:24:13 2025 Page 5
ID:kHdPkC0N9g3_0lfrDBlgKRzexCS-0GJIN6doF5?LEkflPcPWJehi3sc0wG58Sd4kGayt6TG

LOAD CASE(S)

- Concentrated Loads (lb)
Vert: 19=-150 47=-150
- 150) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-32=-60(F=-20), 7-32=-101(F=-20), 7-9=-32(F=-20), 9-41=-101(F=-20), 15-41=-60(F=-20), 24-28=-20(F)
Concentrated Loads (lb)
Vert: 19=-150 47=-150
- 151) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-15=-32(F=-20), 24-28=-20(F)
Concentrated Loads (lb)
Vert: 19=-150 47=-150
- 152) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-32=-60(F=-20), 7-32=-101(F=-20), 7-9=-32(F=-20), 9-41=-101(F=-20), 15-41=-60(F=-20), 24-28=-20(F)
Concentrated Loads (lb)
Vert: 19=-150 47=-150
- 153) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-15=-32(F=-20), 24-28=-20(F)
Concentrated Loads (lb)
Vert: 19=-150 47=-150
- 154) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-32=-60(F=-20), 7-32=-101(F=-20), 7-9=-32(F=-20), 9-41=-101(F=-20), 15-41=-60(F=-20), 24-28=-20(F)
Concentrated Loads (lb)
Vert: 19=-150 47=-150
- 155) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-15=-32(F=-20), 24-28=-20(F)
Concentrated Loads (lb)
Vert: 19=-150 47=-150
- 156) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-32=-60(F=-20), 7-32=-101(F=-20), 7-9=-32(F=-20), 9-41=-101(F=-20), 15-41=-60(F=-20), 24-28=-20(F)
Concentrated Loads (lb)
Vert: 19=-150 47=-150
- 157) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-15=-32(F=-20), 24-28=-20(F)
Concentrated Loads (lb)
Vert: 19=-150 47=-150
- 158) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-32=-60(F=-20), 7-32=-101(F=-20), 7-9=-32(F=-20), 9-41=-101(F=-20), 15-41=-60(F=-20), 24-28=-20(F)
Concentrated Loads (lb)
Vert: 19=-150 47=-150
- 159) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-15=-32(F=-20), 24-28=-20(F)
Concentrated Loads (lb)
Vert: 19=-150 47=-150
- 160) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-32=-60(F=-20), 7-32=-101(F=-20), 7-9=-32(F=-20), 9-41=-101(F=-20), 15-41=-60(F=-20), 24-28=-20(F)
Concentrated Loads (lb)
Vert: 19=-150 47=-150
- 161) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-15=-32(F=-20), 24-28=-20(F)
Concentrated Loads (lb)
Vert: 19=-150 47=-150
- 162) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-32=-60(F=-20), 7-32=-101(F=-20), 7-9=-32(F=-20), 9-41=-101(F=-20), 15-41=-60(F=-20), 24-28=-20(F)
Concentrated Loads (lb)
Vert: 19=-150 47=-150
- 163) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-15=-32(F=-20), 24-28=-20(F)
Concentrated Loads (lb)
Vert: 19=-150 47=-150
- 164) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-32=-60(F=-20), 7-32=-101(F=-20), 7-9=-32(F=-20), 9-41=-101(F=-20), 15-41=-60(F=-20), 24-28=-20(F)

Continued on page 6



7/28/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 138 PROVIDENCE CREEK 398 PROVIDENCE CREEK DRIVE GARNER, NC
25-6341-R01	R02	Piggyback Base	2	1	Job Reference (optional) # 61068

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Jul 29 20:24:13 2025 Page 6
ID:kHdPkC0N9g3_0lfrDBlgKRzexCS-0GJIN6doF5?LEkflPcPWJehi3sc0wG58Sd4kGayt6TG

LOAD CASE(S)

- Concentrated Loads (lb)
Vert: 19=-150 47=-150
- 165) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-15=-32(F=-20), 24-28=-20(F)
- Concentrated Loads (lb)
Vert: 19=-150 47=-150
- 166) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-32=-60(F=-20), 7-32=-101(F=-20), 7-9=-32(F=-20), 9-41=-101(F=-20), 15-41=-60(F=-20), 24-28=-20(F)
- Concentrated Loads (lb)
Vert: 19=-150 47=-150



7/28/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 138 PROVIDENCE CREEK 398 PROVIDENCE CREEK DRIVE GARNER, NC
25-6341-R01	R03	Piggyback Base	7	1	
Job Reference (optional)					# 61068

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Jul 29 20:24:15 2025 Page 1
ID:kHdPkC0N9g3_0lfrDBlgKRzexCS-yfQ3nof2njF3T2pjW1R_P3m2TgHyOBqRwxZrKTy6tTE

-0-10-8	10-1-12	14-5-5	21-6-0	31-0-0	37-6-0	44-6-11	48-10-4	59-0-0	59-10-8
0-10-8	10-1-12	4-3-9	7-0-11	9-6-0	6-6-0	7-0-11	4-3-9	10-1-12	0-10-8

Scale = 1:102.6

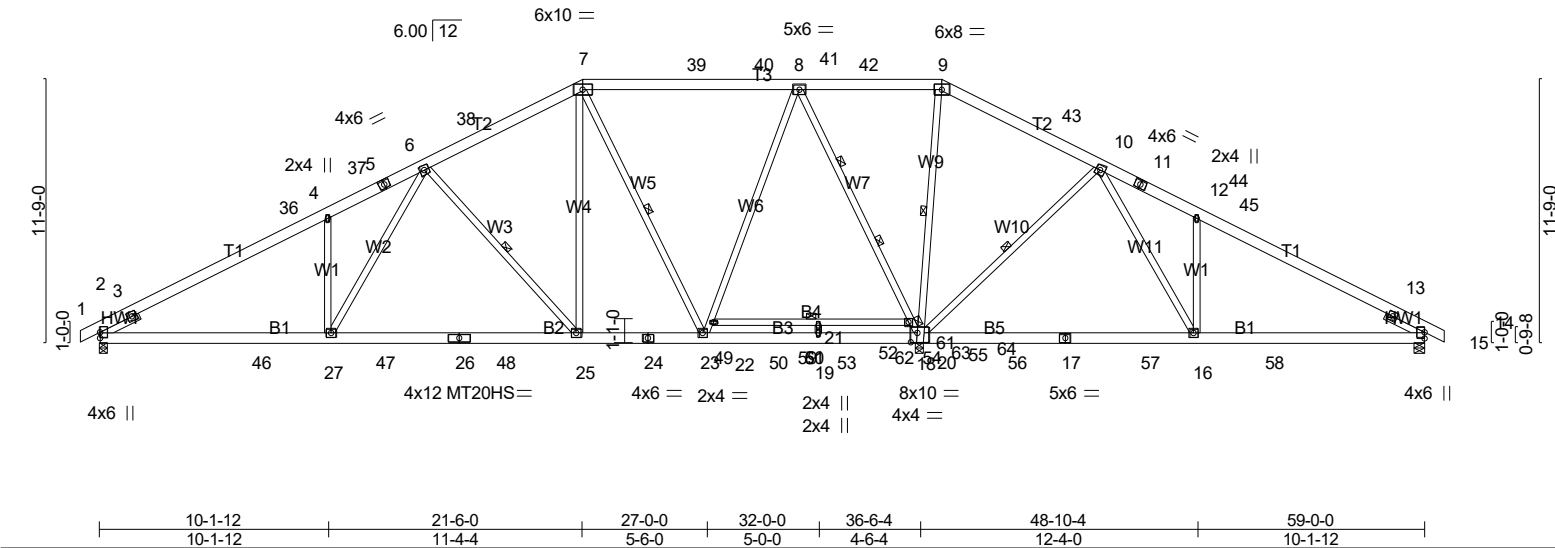


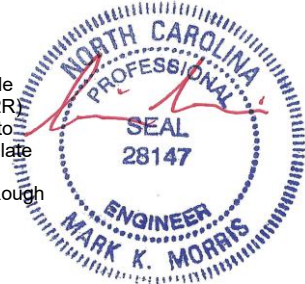
Plate Offsets (X,Y)-- [18:0-3,8,0-5-0]									
LOADING (psf)		SPACING		CSI		DEFL.		PLATES	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.71	in (loc)	l/defl	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.88	Vert(LL)	-0.28 25-27	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.91	Vert(CT)	-0.44 25-27		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-AS		Horz(CT)	0.05 18		
BCDL	10.0							Weight: 469 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.2	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x6 SP No.2 *Except*	BOT CHORD	Rigid ceiling directly applied. Except:
	B4: 2x4 SP No.2		6-0-0 oc bracing: 20-22
WEBS	2x4 SP No.3 *Except*	WEBS	1 Row at midpt 6-25, 7-23, 10-18, 9-18
	W5,W7: 2x4 SP SS		2 Rows at 1/3 pts 8-20
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=1339/0-3-8 (min. 0-1-13), 18=3037/0-3-8 (min. 0-2-14), 14=628/0-5-8 (min. 0-1-8)
Max Horz2=167(LC 14)
Max Uplift2=-205(LC 14), 18=-7(LC 14), 14=-207(LC 15)
Max Grav2=1551(LC 43), 18=4183(LC 43), 14=773(LC 41)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-835/0, 3-36=-2505/273, 4-36=-2339/293, 4-37=-2447/404, 5-37=-2432/406,
5-6=-2308/423, 6-38=-1268/291, 7-38=-1142/312, 7-39=-754/267, 39-40=-754/267,
40-41=-754/267, 8-41=-754/267, 8-42=0/1101, 9-42=0/1101, 9-43=0/1245, 10-43=0/1070,
10-11=-689/425, 11-44=-835/408, 12-44=-846/406, 12-45=-651/292, 13-45=-861/271,
13-14=-311/0
BOT CHORD 2-46=-302/2136, 27-46=-302/2136, 27-47=-214/1674, 26-47=-214/1674, 26-48=-214/1674,
25-48=-214/1674, 24-25=-63/1058, 24-49=-63/1058, 23-49=-63/1058, 23-50=-162/402,
50-51=-162/402, 51-52=-162/402, 19-52=-162/402, 19-53=-162/402, 53-54=-162/402,
54-55=-162/402, 18-55=-162/402, 18-56=-365/263, 17-56=-365/263, 17-57=-365/263,
16-57=-365/263, 16-58=-138/678, 14-58=-138/678
WEBS 6-25=-1053/259, 7-25=-109/1129, 7-23=-1169/162, 22-23=-56/1619, 8-22=-30/1740,
8-20=-2306/217, 18-20=-2402/195, 10-18=-1148/266, 19-21=-301/0, 9-18=-864/120,
6-27=-182/968, 10-16=-176/1177, 4-27=-476/255, 12-16=-587/254

NOTES- (18-21)
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; Gable Roof; Hip Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-10-8 to 3-11-2, Interior(1) 3-11-2 to 16-8-6, Exterior(2R) 16-8-6 to 26-3-10, Interior(1) 26-3-10 to 32-8-6, Exterior(2R) 32-8-6 to 42-3-10, Interior(1) 42-3-10 to 55-0-14, Exterior(2E) 55-0-14 to 59-10-8 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
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.
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.

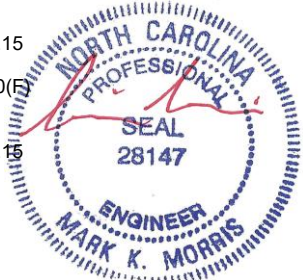
Job	Truss	Truss Type	Qty	Ply	LOT 138 PROVIDENCE CREEK 398 PROVIDENCE CREEK DRIVE GARNER, NC
25-6341-R01	R03	Piggyback Base	7	1	
Job Reference (optional)					# 61068

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- NOTES-** (18-21)
- 6) Provide adequate drainage to prevent water ponding.
 - 7) All plates are MT20 plates unless otherwise indicated.
 - 8) All plates are 5x5 MT20 unless otherwise indicated.
 - 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, with BCDL = 10.0psf.
 - 11) Bearing at joint(s) 18 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18 except (jt=lb) 2=205, 14=207.
 - 13) Load case(s) 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - 14) MULTIPLE LOADCASES – This design is the composite result of multiple load cases.
 - 15) User moving load cases exist: Review the load cases for details.
 - 16) 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.
 - 17) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
 - 18) 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.
 - 19) 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.
 - 20) 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.
 - 21) 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 Except:

- 109) Reversal: 1st User Defined Moving Load - Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-60(F), 7-9=-60(F), 9-15=-60(F), 28-32=-20(F), 20-22=-20(F)
Concentrated Loads (lb)
Vert: 23=-150 51=-150
- 110) Reversal: 2nd User Defined Moving Load - Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-60(F), 7-9=-60(F), 9-15=-60(F), 28-32=-20(F), 20-22=-20(F)
Concentrated Loads (lb)
Vert: 51=-150 52=-150
- 111) Reversal: 3rd User Defined Moving Load - Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-60(F), 7-9=-60(F), 9-15=-60(F), 28-32=-20(F), 20-22=-20(F)
Concentrated Loads (lb)
Vert: 52=-150 53=-150
- 112) Reversal: 4th User Defined Moving Load - Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-60(F), 7-9=-60(F), 9-15=-60(F), 28-32=-20(F), 20-22=-20(F)
Concentrated Loads (lb)
Vert: 53=-150 55=-150
- 113) Reversal: 5th User Defined Moving Load - Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-60(F), 7-9=-60(F), 9-15=-60(F), 28-32=-20(F), 20-22=-20(F)
Concentrated Loads (lb)
Vert: 18=-150 54=-150
- 114) Reversal: 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-15=-32(F=-20), 28-32=-20(F), 20-22=-20(F)
Concentrated Loads (lb)
Vert: 23=-150 51=-150
- 115) Reversal: 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-36=-60(F=-20), 7-36=-101(F=-20), 7-9=-32(F=-20), 9-45=-101(F=-20), 15-45=-60(F=-20), 28-32=-20(F), 20-22=-20(F)
Concentrated Loads (lb)
Vert: 23=-150 51=-150
- 116) Reversal: 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-15=-32(F=-20), 28-32=-20(F), 20-22=-20(F)
Concentrated Loads (lb)
Vert: 23=-150 51=-150
- 117) Reversal: 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-36=-60(F=-20), 7-36=-101(F=-20), 7-9=-32(F=-20), 9-45=-101(F=-20), 15-45=-60(F=-20), 28-32=-20(F), 20-22=-20(F)
Concentrated Loads (lb)
Vert: 23=-150 51=-150
- 118) Reversal: 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-15=-32(F=-20), 28-32=-20(F), 20-22=-20(F)
Concentrated Loads (lb)
Vert: 23=-150 51=-150



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7/28/2025

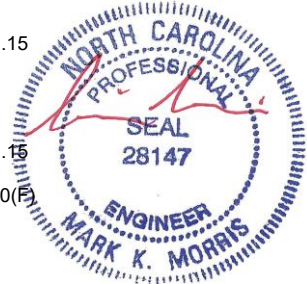
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Job	Truss	Truss Type	Qty	Ply	LOT 138 PROVIDENCE CREEK 398 PROVIDENCE CREEK DRIVE GARNER, NC
25-6341-R01	R03	Piggyback Base	7	1	
					Job Reference (optional) # 61068

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LOAD CASE(S)

- 119) Reversal: 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-36=-60(F=-20), 7-36=-101(F=-20), 7-9=-32(F=-20), 9-45=-101(F=-20), 15-45=-60(F=-20), 28-32=-20(F), 20-22=-20(F)
Concentrated Loads (lb)
Vert: 23=-150 51=-150
- 120) Reversal: 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-15=-32(F=-20), 28-32=-20(F), 20-22=-20(F)
Concentrated Loads (lb)
Vert: 23=-150 51=-150
- 121) Reversal: 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-36=-60(F=-20), 7-36=-101(F=-20), 7-9=-32(F=-20), 9-45=-101(F=-20), 15-45=-60(F=-20), 28-32=-20(F), 20-22=-20(F)
Concentrated Loads (lb)
Vert: 23=-150 51=-150
- 122) Reversal: 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-15=-32(F=-20), 28-32=-20(F), 20-22=-20(F)
Concentrated Loads (lb)
Vert: 23=-150 51=-150
- 123) Reversal: 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-36=-60(F=-20), 7-36=-101(F=-20), 7-9=-32(F=-20), 9-45=-101(F=-20), 15-45=-60(F=-20), 28-32=-20(F), 20-22=-20(F)
Concentrated Loads (lb)
Vert: 23=-150 51=-150
- 124) Reversal: 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-15=-32(F=-20), 28-32=-20(F), 20-22=-20(F)
Concentrated Loads (lb)
Vert: 23=-150 51=-150
- 125) Reversal: 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-36=-60(F=-20), 7-36=-101(F=-20), 7-9=-32(F=-20), 9-45=-101(F=-20), 15-45=-60(F=-20), 28-32=-20(F), 20-22=-20(F)
Concentrated Loads (lb)
Vert: 23=-150 51=-150
- 126) Reversal: 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-15=-32(F=-20), 28-32=-20(F), 20-22=-20(F)
Concentrated Loads (lb)
Vert: 23=-150 51=-150
- 127) Reversal: 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-36=-60(F=-20), 7-36=-101(F=-20), 7-9=-32(F=-20), 9-45=-101(F=-20), 15-45=-60(F=-20), 28-32=-20(F), 20-22=-20(F)
Concentrated Loads (lb)
Vert: 23=-150 51=-150
- 128) Reversal: 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-15=-32(F=-20), 28-32=-20(F), 20-22=-20(F)
Concentrated Loads (lb)
Vert: 23=-150 51=-150
- 129) Reversal: 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-36=-60(F=-20), 7-36=-101(F=-20), 7-9=-32(F=-20), 9-45=-101(F=-20), 15-45=-60(F=-20), 28-32=-20(F), 20-22=-20(F)
Concentrated Loads (lb)
Vert: 23=-150 51=-150
- 130) Reversal: 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-15=-32(F=-20), 28-32=-20(F), 20-22=-20(F)
Concentrated Loads (lb)
Vert: 23=-150 51=-150
- 131) Reversal: 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-36=-60(F=-20), 7-36=-101(F=-20), 7-9=-32(F=-20), 9-45=-101(F=-20), 15-45=-60(F=-20), 28-32=-20(F), 20-22=-20(F)
Concentrated Loads (lb)
Vert: 23=-150 51=-150
- 132) Reversal: 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-15=-32(F=-20), 28-32=-20(F), 20-22=-20(F)
Concentrated Loads (lb)
Vert: 23=-150 51=-150
- 133) Reversal: 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-36=-60(F=-20), 7-36=-101(F=-20), 7-9=-32(F=-20), 9-45=-101(F=-20), 15-45=-60(F=-20), 28-32=-20(F), 20-22=-20(F)
Concentrated Loads (lb)
Vert: 23=-150 51=-150



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7/28/2025

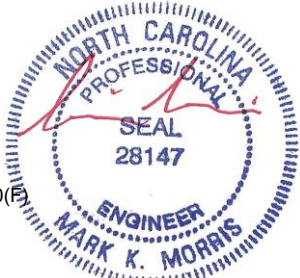
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Job	Truss	Truss Type	Qty	Ply	LOT 138 PROVIDENCE CREEK 398 PROVIDENCE CREEK DRIVE GARNER, NC
25-6341-R01	R03	Piggyback Base	7	1	
					Job Reference (optional) # 61068

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LOAD CASE(S)

- 134) Reversal: 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-15=-32(F=-20), 28-32=-20(F), 20-22=-20(F)
Concentrated Loads (lb)
Vert: 23=-150 51=-150
- 135) Reversal: 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-36=-60(F=-20), 7-36=-101(F=-20), 7-9=-32(F=-20), 9-45=-101(F=-20), 15-45=-60(F=-20), 28-32=-20(F), 20-22=-20(F)
Concentrated Loads (lb)
Vert: 23=-150 51=-150
- 136) Reversal: 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-15=-32(F=-20), 28-32=-20(F), 20-22=-20(F)
Concentrated Loads (lb)
Vert: 23=-150 51=-150
- 137) Reversal: 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-36=-60(F=-20), 7-36=-101(F=-20), 7-9=-32(F=-20), 9-45=-101(F=-20), 15-45=-60(F=-20), 28-32=-20(F), 20-22=-20(F)
Concentrated Loads (lb)
Vert: 23=-150 51=-150
- 138) 1st User Defined Moving Load - Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-60(F), 7-9=-60(F), 9-15=-60(F), 28-32=-20(F), 20-22=-20(F)
Concentrated Loads (lb)
Vert: 23=-150 51=-150
- 139) 2nd User Defined Moving Load - Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-60(F), 7-9=-60(F), 9-15=-60(F), 28-32=-20(F), 20-22=-20(F)
Concentrated Loads (lb)
Vert: 51=-150 52=-150
- 140) 3rd User Defined Moving Load - Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-60(F), 7-9=-60(F), 9-15=-60(F), 28-32=-20(F), 20-22=-20(F)
Concentrated Loads (lb)
Vert: 52=-150 53=-150
- 141) 4th User Defined Moving Load - Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-60(F), 7-9=-60(F), 9-15=-60(F), 28-32=-20(F), 20-22=-20(F)
Concentrated Loads (lb)
Vert: 53=-150 55=-150
- 142) 5th User Defined Moving Load - Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-60(F), 7-9=-60(F), 9-15=-60(F), 28-32=-20(F), 20-22=-20(F)
Concentrated Loads (lb)
Vert: 18=-150 54=-150
- 143) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-15=-32(F=-20), 28-32=-20(F), 20-22=-20(F)
Concentrated Loads (lb)
Vert: 23=-150 51=-150
- 144) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-36=-60(F=-20), 7-36=-101(F=-20), 7-9=-32(F=-20), 9-45=-101(F=-20), 15-45=-60(F=-20), 28-32=-20(F), 20-22=-20(F)
Concentrated Loads (lb)
Vert: 23=-150 51=-150
- 145) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-15=-32(F=-20), 28-32=-20(F), 20-22=-20(F)
Concentrated Loads (lb)
Vert: 23=-150 51=-150
- 146) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-36=-60(F=-20), 7-36=-101(F=-20), 7-9=-32(F=-20), 9-45=-101(F=-20), 15-45=-60(F=-20), 28-32=-20(F), 20-22=-20(F)
Concentrated Loads (lb)
Vert: 23=-150 51=-150
- 147) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-15=-32(F=-20), 28-32=-20(F), 20-22=-20(F)
Concentrated Loads (lb)
Vert: 23=-150 51=-150
- 148) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-36=-60(F=-20), 7-36=-101(F=-20), 7-9=-32(F=-20), 9-45=-101(F=-20), 15-45=-60(F=-20), 28-32=-20(F), 20-22=-20(F)
Concentrated Loads (lb)
Vert: 23=-150 51=-150



Continued on page 5

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.

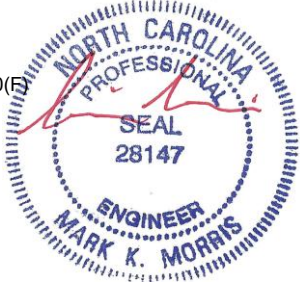
Job	Truss	Truss Type	Qty	Ply	LOT 138 PROVIDENCE CREEK 398 PROVIDENCE CREEK DRIVE GARNER, NC
25-6341-R01	R03	Piggyback Base	7	1	
					Job Reference (optional) # 61068

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LOAD CASE(S)

- 149) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-15=-32(F=-20), 28-32=-20(F), 20-22=-20(F)
Concentrated Loads (lb)
Vert: 23=-150 51=-150
- 150) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-36=-60(F=-20), 7-36=-101(F=-20), 7-9=-32(F=-20), 9-45=-101(F=-20), 15-45=-60(F=-20), 28-32=-20(F), 20-22=-20(F)
Concentrated Loads (lb)
Vert: 23=-150 51=-150
- 151) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-15=-32(F=-20), 28-32=-20(F), 20-22=-20(F)
Concentrated Loads (lb)
Vert: 23=-150 51=-150
- 152) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-36=-60(F=-20), 7-36=-101(F=-20), 7-9=-32(F=-20), 9-45=-101(F=-20), 15-45=-60(F=-20), 28-32=-20(F), 20-22=-20(F)
Concentrated Loads (lb)
Vert: 23=-150 51=-150
- 153) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-15=-32(F=-20), 28-32=-20(F), 20-22=-20(F)
Concentrated Loads (lb)
Vert: 23=-150 51=-150
- 154) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-36=-60(F=-20), 7-36=-101(F=-20), 7-9=-32(F=-20), 9-45=-101(F=-20), 15-45=-60(F=-20), 28-32=-20(F), 20-22=-20(F)
Concentrated Loads (lb)
Vert: 23=-150 51=-150
- 155) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-15=-32(F=-20), 28-32=-20(F), 20-22=-20(F)
Concentrated Loads (lb)
Vert: 23=-150 51=-150
- 156) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-36=-60(F=-20), 7-36=-101(F=-20), 7-9=-32(F=-20), 9-45=-101(F=-20), 15-45=-60(F=-20), 28-32=-20(F), 20-22=-20(F)
Concentrated Loads (lb)
Vert: 23=-150 51=-150
- 157) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-15=-32(F=-20), 28-32=-20(F), 20-22=-20(F)
Concentrated Loads (lb)
Vert: 23=-150 51=-150
- 158) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-36=-60(F=-20), 7-36=-101(F=-20), 7-9=-32(F=-20), 9-45=-101(F=-20), 15-45=-60(F=-20), 28-32=-20(F), 20-22=-20(F)
Concentrated Loads (lb)
Vert: 23=-150 51=-150
- 159) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-15=-32(F=-20), 28-32=-20(F), 20-22=-20(F)
Concentrated Loads (lb)
Vert: 23=-150 51=-150
- 160) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-36=-60(F=-20), 7-36=-101(F=-20), 7-9=-32(F=-20), 9-45=-101(F=-20), 15-45=-60(F=-20), 28-32=-20(F), 20-22=-20(F)
Concentrated Loads (lb)
Vert: 23=-150 51=-150
- 161) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-15=-32(F=-20), 28-32=-20(F), 20-22=-20(F)
Concentrated Loads (lb)
Vert: 23=-150 51=-150
- 162) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-36=-60(F=-20), 7-36=-101(F=-20), 7-9=-32(F=-20), 9-45=-101(F=-20), 15-45=-60(F=-20), 28-32=-20(F), 20-22=-20(F)
Concentrated Loads (lb)
Vert: 23=-150 51=-150
- 163) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-15=-32(F=-20), 28-32=-20(F), 20-22=-20(F)
Concentrated Loads (lb)
Vert: 23=-150 51=-150

Continued on page 6



7/28/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 138 PROVIDENCE CREEK 398 PROVIDENCE CREEK DRIVE GARNER, NC
25-6341-R01	R03	Piggyback Base	7	1	

Job Reference (optional) # 61068

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LOAD CASE(S)

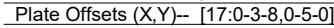
- 164) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-36=-60(F=-20), 7-36=-101(F=-20), 7-9=-32(F=-20), 9-45=-101(F=-20), 15-45=-60(F=-20), 28-32=-20(F), 20-22=-20(F)
Concentrated Loads (lb)
Vert: 23=-150 51=-150
- 165) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-15=-32(F=-20), 28-32=-20(F), 20-22=-20(F)
Concentrated Loads (lb)
Vert: 23=-150 51=-150
- 166) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-36=-60(F=-20), 7-36=-101(F=-20), 7-9=-32(F=-20), 9-45=-101(F=-20), 15-45=-60(F=-20), 28-32=-20(F), 20-22=-20(F)
Concentrated Loads (lb)
Vert: 23=-150 51=-150



7/28/2025

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LUMBER-
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2 *Except*
 B4: 2x4 SP No.2
 WEBS 2x4 SP No.3 *Except*
 W5,W7: 2x4 SP SS
 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. Except: 6-0-0 oc bracing: 19-21
WEBS	1 Row at midpt 6-24, 7-22, 10-17, 9-17 2 Rows at 1/3 pts 8-19
	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

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

TOP CHORD 2-3=-836/0, 3-35=-2507/268, 4-35=-2342/289, 4-36=-2450/404, 5-36=-2429/405,
5-6=-2103/421, 6-37=-1266/286, 7-37=-1141/308, 7-38=-650/261, 38-39=-650/261,
39-40=-650/261, 8-40=-650/261, 8-41=0/1094, 9-41=0/1094, 9-42=0/1238, 10-42=0/1063,
10-11=-697/421, 11-43=-844/404, 12-43=-855/402, 12-44=-659/288, 13-44=-868/267,
13-14=-319/0

BOT CHORD 2-45=-307/2138, 26-45=-307/2138, 26-46=-219/1672, 25-46=-219/1672, 25-47=-219/1672,
24-47=-219/1672, 23-24=-71/1051, 23-48=-71/1051, 22-48=-71/1051, 22-49=-160/338,
18-49=-160/338, 18-50=-160/338, 17-50=-160/338, 17-51=-363/268, 16-51=-363/268,
16-52=-363/268, 15-52=-363/268, 15-53=-148/686, 14-53=-148/686

WEBS 6-24=-1053/259, 7-24=-109/1129, 7-22=-1167/163, 21-22=-57/1618, 8-21=-30/1739,
8-19=-2305/219, 17-19=-2401/197, 10-17=-1149/266, 18-20=-301/0, 9-17=-860/123,
6-26=-182/967, 10-15=-177/1180, 4-26=-485/256, 12-15=-586/255

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDF=5.0psf; BCDF=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof; Hip Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 16-8-6, Exterior(2R) 16-8-6 to 26-3-10, Interior(1) 26-3-10 to 32-8-6, Exterior(2R) 32-8-6 to 42-3-10, Interior(1) 42-3-10 to 54-2-6, Exterior(2E) 54-2-6 to 59-0-0 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
- 3) TLL: 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.

Continued on page 2

7/28/2025

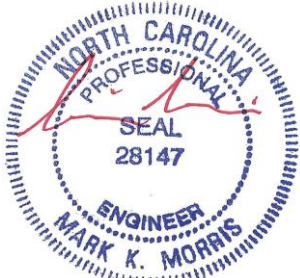
Warning !—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – 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 138 PROVIDENCE CREEK 398 PROVIDENCE CREEK DRIVE GARNER, NC
25-6341-R01	R04	PIGGYBACK BASE	1	1	Job Reference (optional) # 61068

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- NOTES-** (14-17)
- 7) All plates are MT20 plates unless otherwise indicated.
 - 8) All plates are 5x5 MT20 unless otherwise indicated.
 - 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, with BCDL = 10.0psf.
 - 11) Bearing at joint(s) 17 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17 except (jt=lb) 2=204, 14=188.
 - 13) 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.
 - 14) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
 - 15) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
 - 16) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
 - 17) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

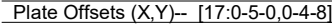
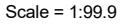
LOAD CASE(S) Standard



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 *Except*
 W5,W7: 2x4 SP No.1
 SLIDER Left 2x4 SP No.3 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.
WEBS	
	1 Row at midpt 6-20, 7-18, 10-17, 9-17
	2 Rows at 1/3 pts 8-17

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

REACTIONS. All bearings 0-3-8 except (jt=length) 14=Mechanical.
 (lb) - Max Horz 2=178(LC 14)
 Max Uplift All uplift 100 lb or less at joint(s) 15 except 2=-207(LC 14), 17=-180(LC 11),
 14=-180(LC 10)
 Max Grav All reactions 250 lb or less at joint(s) except 2=1591(LC 45), 17=3332(LC 45),
 14=538(LC 43), 15=621(LC 37)

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

TOP CHORD 2-3=-868/0, 3-31=-2583/334, 4-31=-2417/355, 4-32=-2523/431, 5-32=-2501/432,
5-6=-2384/448, 6-33=-1314/355, 7-33=-1181/377, 7-34=-638/344, 34-35=-638/344,
35-36=-638/344, 8-36=-638/344, 8-37=0/845, 9-37=0/845, 9-38=0/970, 10-38=0/795,
10-11=-637/585, 11-39=-498/568, 12-39=-509/566, 12-40=-316/471, 13-40=-517/445,
13-14=-197/452

BOT CHORD 2-41=-318/2205, 22-41=-318/2205, 22-42=-230/1746, 21-42=-230/1746, 21-43=-230/1746,
20-43=-230/1746, 19-20=-80/1054, 19-44=-80/1054, 18-44=-80/1054, 18-45=-58/335,
45-46=-58/335, 17-46=-58/335, 17-47=-312/255, 16-47=-312/255, 16-48=-312/255,
15-48=-312/255, 15-49=-345/376, 14-49=-345/376

WEBS 6-20=-1047/259, 7-20=-1011/175, 7-18=-1175/150, 8-18=-76/1466, 8-17=-2061/240,
10-17=-842/343, 9-17=-726/93, 6-22=-182/956, 10-15=-362/676, 12-15=-571/243,
4-22=-478/255

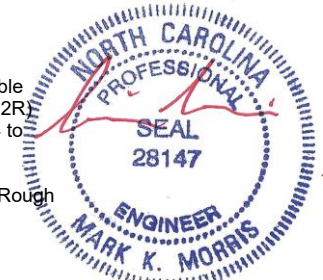
NOTES- (15-18)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDF=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof; Hip Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 16-8-6, Exterior(2R) 16-8-6 to 26-3-10, Interior(1) 26-3-10 to 32-8-6, Exterior(2R) 32-8-6 to 42-3-10, Interior(1) 42-3-10 to 53-8-14, Exterior(2E) 53-8-14 to 58-6-8 zone; end vertical left exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.

Continued on page 2

7/28/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 138 PROVIDENCE CREEK 398 PROVIDENCE CREEK DRIVE GARNER, NC
25-6341-R01	R05	PIGGYBACK BASE	5	1	Job Reference (optional) # 61068

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Jul 29 20:24:18 2025 Page 2
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- NOTES-** (15-18)
- 6) Provide adequate drainage to prevent water ponding.
 - 7) All plates are MT20 plates unless otherwise indicated.
 - 8) All plates are 5x5 MT20 unless otherwise indicated.
 - 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, with BCDL = 10.0psf.
 - 11) Refer to girder(s) for truss to truss connections.
 - 12) Bearing at joint(s) 17 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15 except (jt=lb) 2=207, 17=180, 14=180.
 - 14) 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.
 - 15) 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.
 - 16) 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.
 - 17) 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.
 - 18) 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



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 138 PROVIDENCE CREEK 398 PROVIDENCE CREEK DRIVE GARNER, NC
25-6341-R01	R06	PIGGYBACK BASE	5	1	
Job Reference (optional)					# 61068

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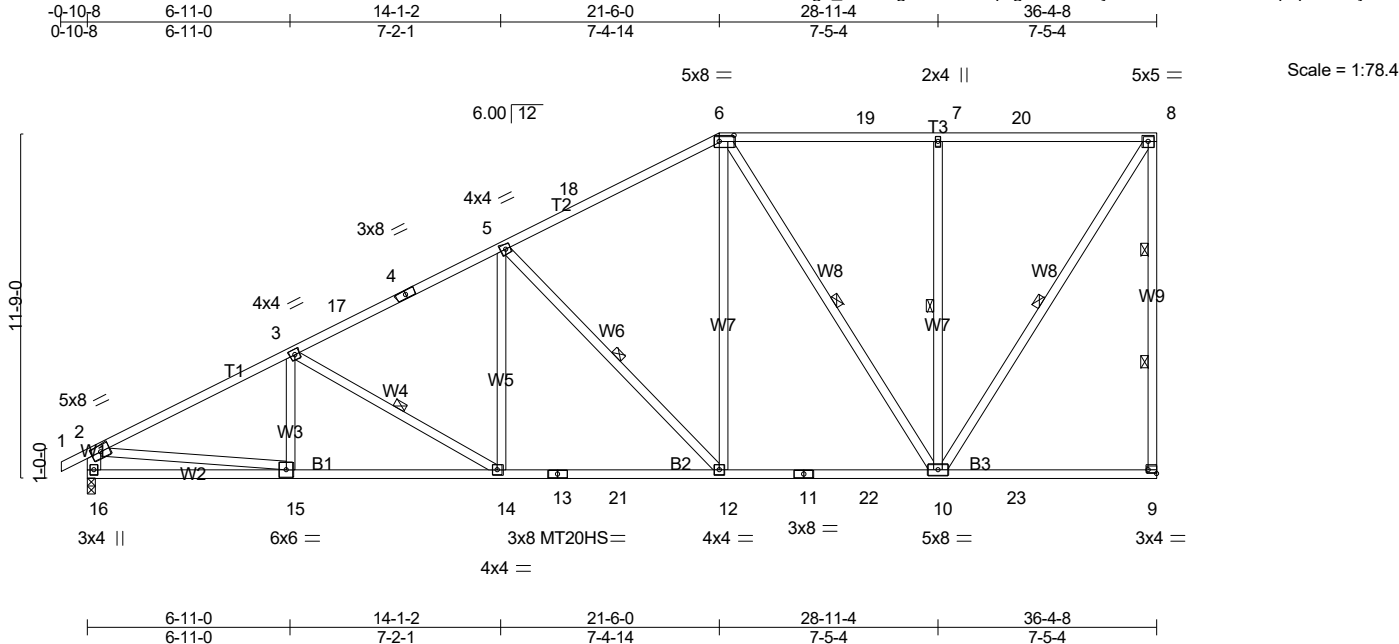


Plate Offsets (X,Y)-- [6:0-6-0,0-2-8], [9:Edge,0-1-8]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.98	in (loc)	l/defl	MT20	GRIP
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.94	Vert(LL)	-0.21 12-14	MT20HS	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.84	Vert(CT)	-0.34 12-14		187/143
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-SH		Horz(CT)	0.07 9		
BCDL	10.0								
								Weight: 258 lb FT = 20%	

LUMBER-
TOP CHORD 2x4 SP No.1 *Except*
T1: 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
W9: 2x4 SP SS, W1: 2x6 SP No.2

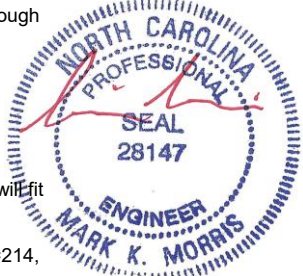
BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 3-14, 5-12, 6-10, 7-10, 8-10
2 Rows at 1/3 pts 8-9
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 9=1439/Mechanical, 16=1507/0-3-8 (min. 0-2-1)
Max Horz 16=373(LC 14)
Max Uplift9=-214(LC 11), 16=-174(LC 14)
Max Grav9=1909(LC 37), 16=1730(LC 36)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2679/234, 3-17=-2367/186, 4-17=-2275/197, 4-5=-2160/215, 5-18=-1637/190,
6-18=-1485/212, 6-19=-953/144, 7-19=-953/144, 7-20=-953/144, 8-20=-953/144,
8-9=-1715/274, 2-16=-1661/204
BOT CHORD 15-16=-461/395, 14-15=-506/2316, 13-14=-369/2035, 13-21=-369/2035, 12-21=-369/2035,
11-12=-240/1341, 11-22=-240/1341, 10-22=-240/1341
WEBS 3-14=-376/157, 5-14=-5/438, 5-12=-1093/253, 6-12=-108/1067, 6-10=-912/183,
7-10=-878/214, 8-10=-268/1748, 2-15=-62/1985

- NOTES-** (11-14)
- 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; Gable Roof; Hip Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 16-8-6, Exterior(2R) 16-8-6 to 26-3-10, Interior(1) 26-3-10 to 31-5-2, Exterior(2E) 31-5-2 to 36-2-12 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 5) Provide adequate drainage to prevent water ponding.
 - 6) All plates are MT20 plates unless otherwise indicated.
 - 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) Refer to girder(s) for truss to truss connections.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=214, 16=174.

Continued on page 2



7/28/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 138 PROVIDENCE CREEK 398 PROVIDENCE CREEK DRIVE GARNER, NC
25-6341-R01	R06	PIGGYBACK BASE	5	1	Job Reference (optional) # 61068

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Jul 29 20:24:19 2025 Page 2
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- 11) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
- 12) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
- 13) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
- 14) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard

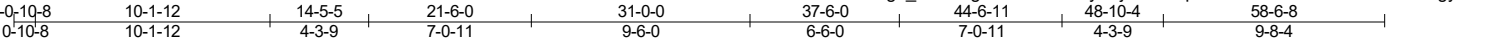


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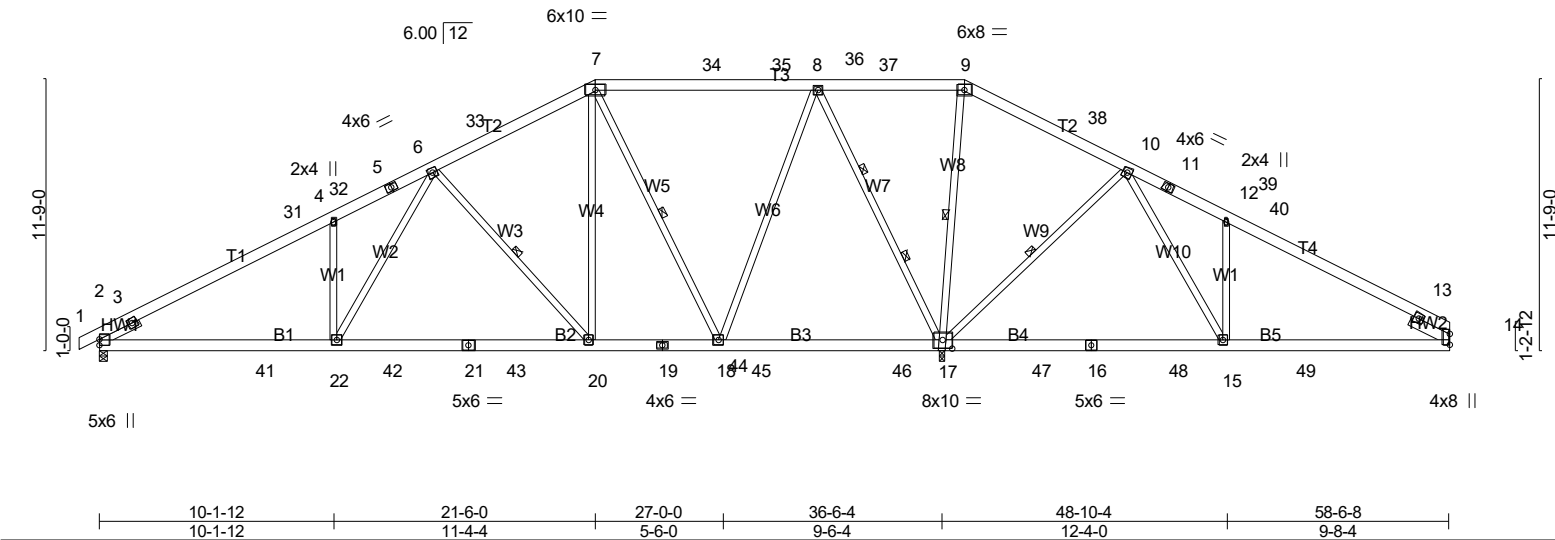
Warning !—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – 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 138 PROVIDENCE CREEK 398 PROVIDENCE CREEK DRIVE GARNER, NC
25-6341-R01	R07	PIGGYBACK BASE	4	1	
Job Reference (optional)					# 61068

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Scale = 1:99.9



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL 1.15	TC 0.70	Vert(LL) -0.28	15-17	>941	240	MT20	244/190
Snow (Pf) 20.0	Lumber DOL 1.15	BC 0.78	Vert(CT) -0.42	20-22	>999	180		
TCDL 10.0	Rep Stress Incr YES	WB 0.97	Horz(CT) 0.04	17	n/a	n/a		
BCLL 0.0 *	Code IRC2021/TPI2014	Matrix-AS						
BCDL 10.0							Weight: 452 lb	FT = 20%

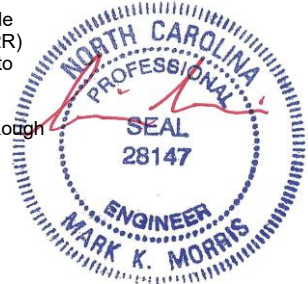
LUMBER- TOP CHORD 2x6 SP No.2 BOT CHORD 2x6 SP No.2 WEBS 2x4 SP No.3 *Except* W5,W7: 2x4 SP No.1 SLIDER Left 2x4 SP No.3 1-11-0, Right 2x6 SP No.2 1-11-0	BRACING- TOP CHORD Structural wood sheathing directly applied. BOT CHORD Rigid ceiling directly applied. WEBS 1 Row at midpt 6-20, 7-18, 10-17, 9-17 2 Rows at 1/3 pts 8-17
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.	

REACTIONS. (lb/size) 2=1336/0-3-8 (min. 0-1-13), 17=2816/0-3-8 (min. 0-2-9), 14=584/Mechanical
Max Horz2=178(LC 14)
Max Uplift2=-217(LC 14), 17=-83(LC 14), 14=-187(LC 15)
Max Grav2=1520(LC 45), 17=3757(LC 45), 14=719(LC 43)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-818/0, 3-31=-2441/298, 4-31=-2275/318, 4-32=-2386/430, 5-32=-2363/431,
5-6=-2246/447, 6-33=-1201/317, 7-33=-1077/338, 7-34=-591/300, 34-35=-591/300,
35-36=-591/300, 8-36=-591/300, 8-37=0/1042, 9-37=0/1042, 9-38=0/1181, 10-38=0/1006,
10-11=-672/406, 11-39=-819/389, 12-39=-830/387, 12-40=-656/281, 13-40=-856/260
BOT CHORD 2-41=-335/2080, 22-41=-335/2080, 22-42=-248/1613, 21-42=-248/1613, 21-43=-248/1613,
20-43=-248/1613, 19-20=-96/982, 19-44=-96/982, 18-44=-96/982, 18-45=-252/313,
45-46=-252/313, 17-46=-252/313, 17-47=-301/287, 16-47=-301/287, 16-48=-301/287,
15-48=-301/287, 15-49=-145/671, 14-49=-145/671
WEBS 6-20=-1051/258, 7-20=-100/1177, 7-18=-1253/139, 8-18=-66/1540, 8-17=-2099/254,
10-17=-1144/258, 9-17=-828/118, 6-22=-180/970, 10-15=-152/1137, 12-15=-537/239,
4-22=-486/254

- NOTES-** (14-17)
- 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; Gable Roof; Hip Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-10-8 to 3-11-2, Interior(1) 3-11-2 to 16-8-6, Exterior(2R) 16-8-6 to 26-3-10, Interior(1) 26-3-10 to 32-8-6, Exterior(2R) 32-8-6 to 42-3-10, Interior(1) 42-3-10 to 53-8-14, Exterior(2E) 53-8-14 to 58-6-8 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.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 5x5 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Continued on page 2



7/28/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 138 PROVIDENCE CREEK 398 PROVIDENCE CREEK DRIVE GARNER, NC
25-6341-R01	R07	PIGGYBACK BASE	4	1	Job Reference (optional) # 61068

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- NOTES-** (14-17)
- 9) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 10) Refer to girder(s) for truss to truss connections.
 - 11) Bearing at joint(s) 17 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17 except (jt=lb) 2=217, 14=187.
 - 13) 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.
 - 14) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
 - 15) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
 - 16) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
 - 17) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAINING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard



7/28/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 138 PROVIDENCE CREEK 398 PROVIDENCE CREEK DRIVE GARNER, NC
25-6341-R01	R08	Piggyback Base Supported Gable	1	1	
Job Reference (optional)					# 61068

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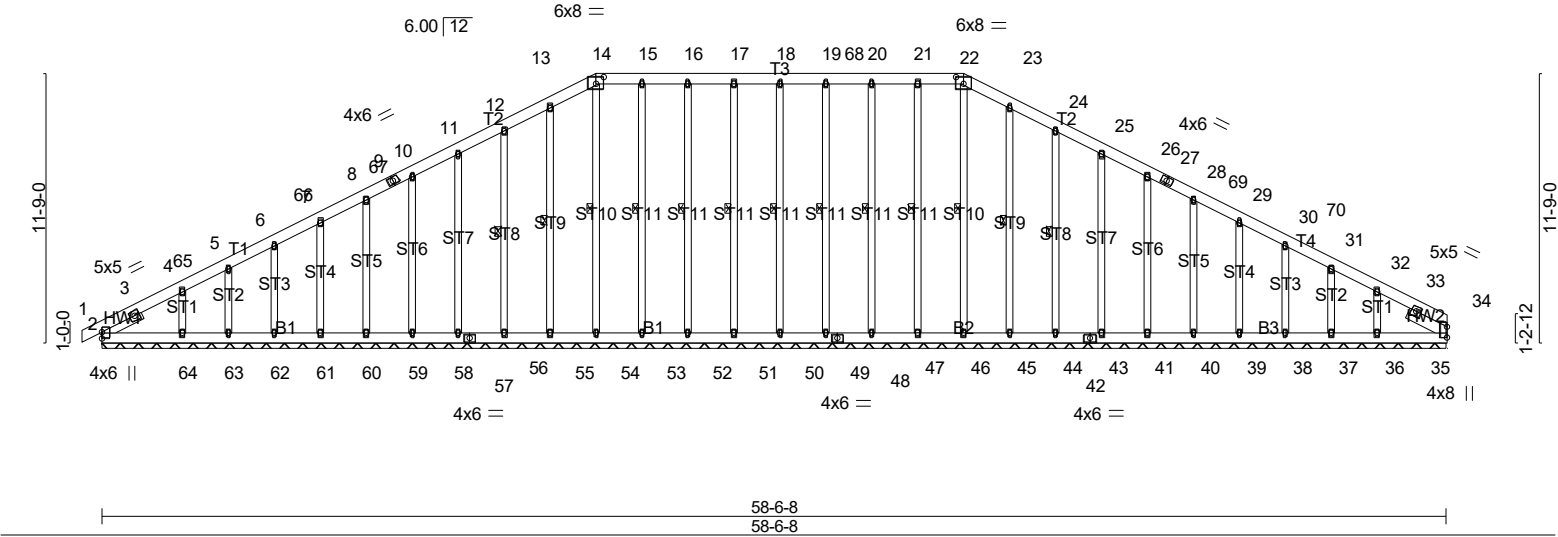
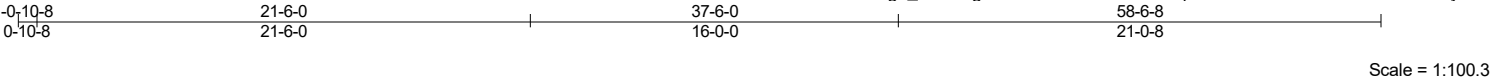


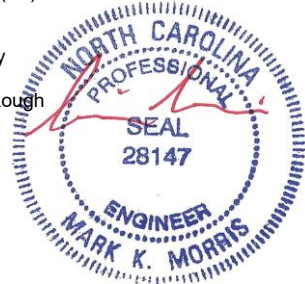
Plate Offsets (X,Y)-- [14:0-4-0,0-3-8], [22:0-4-0,0-3-8]															
LOADING (psf)		SPACING-		2-0-0		CSI.		DEFL.		in (loc) l/defl L/d		PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	-0.00	1	n/r	180	MT20	244/190			
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	1	n/r	80					
TCDL	10.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.01	34	n/a	n/a					
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-S											
BCDL	10.0														
												Weight: 598 lb	FT = 20%		

LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x4 SP No.3	WEBS	1 Row at midpt 18-50, 17-51, 16-52, 15-53, 14-54, 13-55, 12-56, 19-49, 20-47, 21-46, 22-45, 23-44, 24-43
SLIDER	Left 2x4 SP No.3 1-11-0, Right 2x6 SP No.2 1-11-0		

REACTIONS. All bearings 58-6-8.
(lb) - Max Horz 2=-169(LC 15)
Max Uplift All uplift 100 lb or less at joint(s) 2, 50, 51, 52, 53, 55, 56, 58, 59, 60, 61, 62, 63, 49, 47, 46, 44, 43, 41, 40, 39, 38, 37, 36 except 64=-126(LC 14), 35=-119(LC 15)
Max Grav All reactions 250 lb or less at joint(s) 2, 62, 63, 45, 37, 36, 35, 34 except 50=292(LC 44), 51=292(LC 44), 52=295(LC 44), 53=294(LC 44), 54=258(LC 52), 55=297(LC 47), 56=295(LC 45), 58=292(LC 45), 59=292(LC 45), 60=293(LC 45), 61=283(LC 45), 64=259(LC 54), 49=292(LC 44), 47=295(LC 44), 46=294(LC 44), 44=294(LC 49), 43=295(LC 45), 41=292(LC 45), 40=292(LC 45), 39=293(LC 45), 38=284(LC 45)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 12-13=-123/293, 13-14=-138/328, 14-15=-130/314, 15-16=-130/314, 16-17=-130/314, 17-18=-130/314, 18-68=-130/314, 19-68=-130/314, 19-20=-130/314, 20-21=-130/314, 21-22=-130/314, 22-23=-138/328, 23-24=-123/293

- NOTES-** (14-17)
- 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; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 3-11-2, Exterior(2N) 3-11-2 to 16-8-6, Corner(3R) 16-8-6 to 26-3-10, Exterior(2N) 26-3-10 to 32-8-6, Corner(3R) 32-8-6 to 42-3-10, Exterior(2N) 42-3-10 to 53-6-0, Corner(3E) 53-6-0 to 58-6-8 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.
 - 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.



7/28/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 138 PROVIDENCE CREEK 398 PROVIDENCE CREEK DRIVE GARNER, NC
25-6341-R01	R08	Piggyback Base Supported Gable	1	1	Job Reference (optional) # 61068

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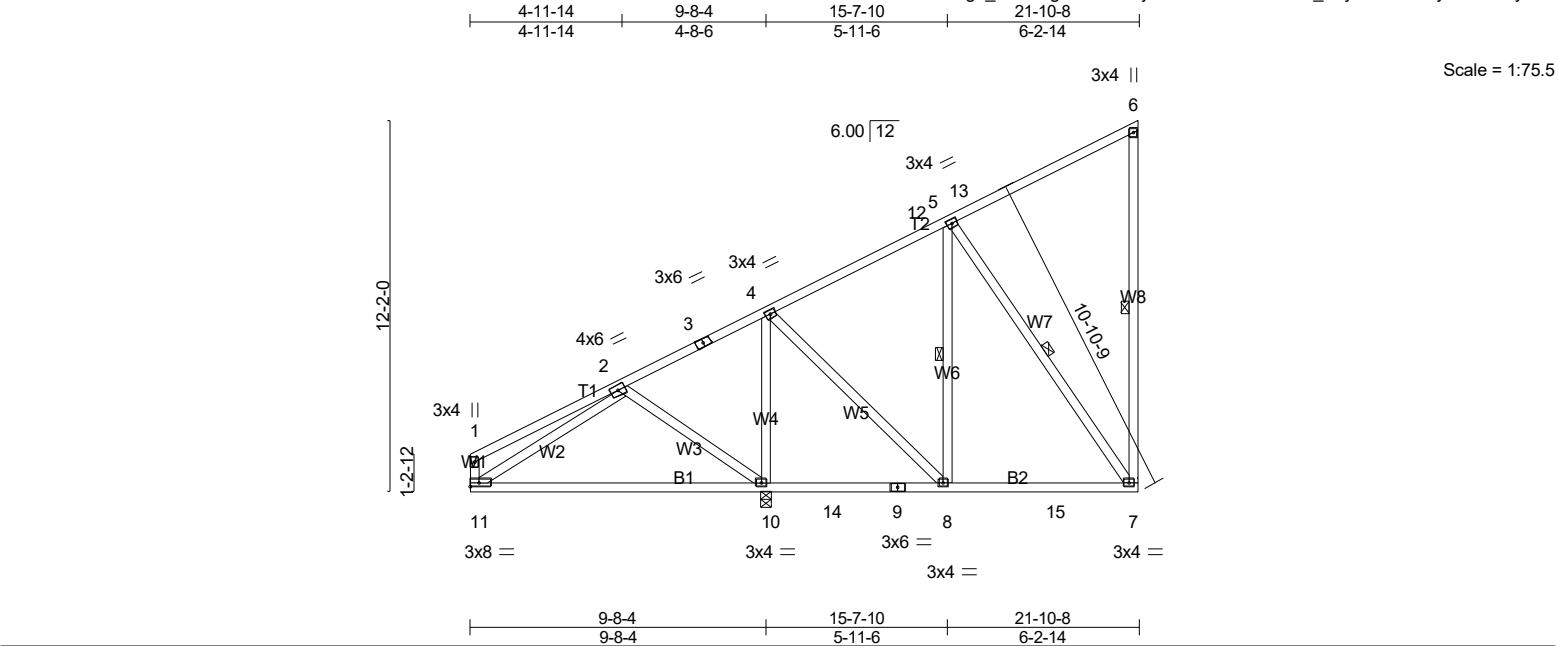
- NOTES-** (14-17)
- 12) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 50, 51, 52, 53, 55, 56, 58, 59, 60, 61, 62, 63, 49, 47, 46, 44, 43, 41, 40, 39, 38, 37, 36 except (jt=lb) 64=126, 35=119.
 - 14) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
 - 15) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
 - 16) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
 - 17) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAINING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard



7/28/2025

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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)	0.41 10-11 >281 240	MT20		244/190	
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.42 10-11 >274 180				
TCDL	10.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	-0.01 7 n/a n/a				
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-SH							
BCDL	10.0										
								Weight: 152 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 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 6-7, 5-8, 5-7

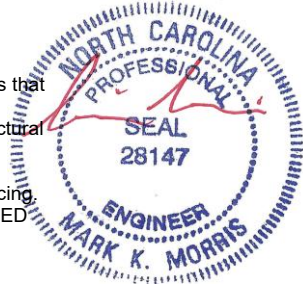
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 11=362/Mechanical, 7=466/Mechanical, 10=899/0-3-8 (min. 0-1-8)
Max Horz 11=371(LC 14)
Max Uplift 11=-2(LC 11), 7=-180(LC 14), 10=-192(LC 14)
Max Grav 11=367(LC 20), 7=620(LC 5), 10=963(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-222/271, 4-12=-325/0
BOT CHORD 10-11=-292/254
WEBS 2-11=-330/91, 2-10=-286/209, 4-10=-593/170, 4-8=0/325, 5-7=-409/152

- NOTES-** (8-11)
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof; End Jack Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 4-10-4, Interior(1) 4-10-4 to 14-11-5, Exterior(2R) 14-11-5 to 21-8-12 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 7=180, 10=192.
 - Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
 - Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
 - Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
 - SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAINING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

Continued on page 2



7/28/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 138 PROVIDENCE CREEK 398 PROVIDENCE CREEK DRIVE GARNER, NC
25-6341-R01	R09	Jack-Closed	3	1	Job Reference (optional) # 61068

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LOAD CASE(S) Standard

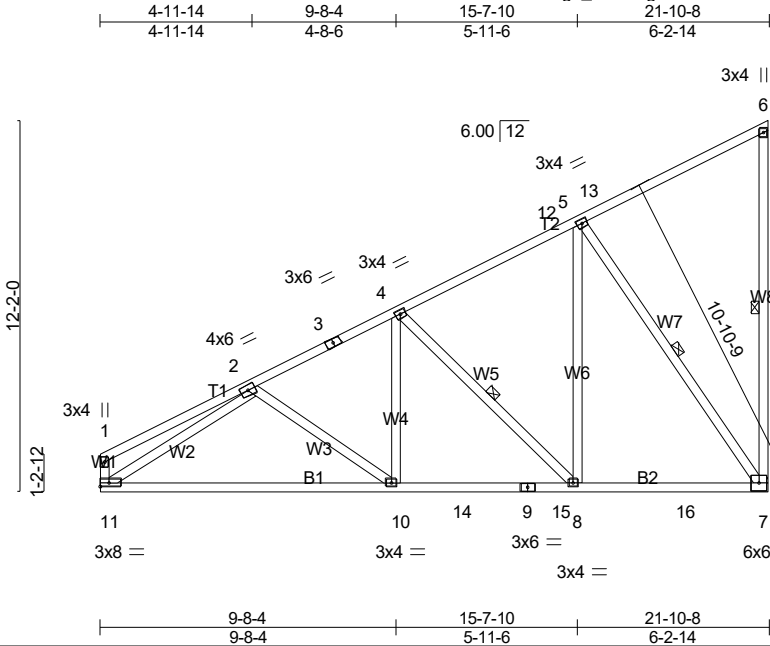


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Job	Truss	Truss Type	Qty	Ply	LOT 138 PROVIDENCE CREEK 398 PROVIDENCE CREEK DRIVE GARNER, NC
25-6341-R01	R10	Jack-Closed	2	1	
Job Reference (optional)					# 61068

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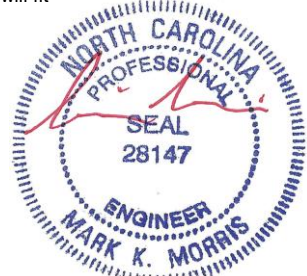
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.72	in (loc) l/defl L/d	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.80	Vert(LL) 0.40 10-11 >642 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.92	Vert(CT) -0.44 10-11 >582 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.03 7 n/a n/a		
BCDL 10.0	Code IRC2021/TPI2014			Weight: 152 lb	FT = 20%

LUMBER- TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3	BRACING- TOP CHORD Structural wood sheathing directly applied or 5-6-12 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 4-6-1 oc bracing. WEBS 1 Row at midpt 6-7, 4-8, 5-7
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.	

REACTIONS. (lb/size) 11=863/Mechanical, 7=863/Mechanical
Max Horz 11=371(LC 14)
Max Uplift 11=-46(LC 14), 7=-265(LC 14)
Max Grav 11=887(LC 20), 7=1046(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-245/282, 2-3=-1055/640, 3-4=-993/651, 4-12=-657/328, 5-12=-538/331
BOT CHORD 10-11=-886/982, 10-14=-823/895, 9-14=-823/895, 9-15=-823/895, 8-15=-823/895,
8-16=-453/539, 7-16=-453/539
WEBS 2-11=-1009/389, 4-10=-395/348, 4-8=-527/515, 5-8=-630/617, 5-7=-929/782

- 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; Gable Roof; End Jack Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 4-10-4, Interior(1) 4-10-4 to 14-11-5, Exterior(2R) 14-11-5 to 21-8-12 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 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) 11 except (jt=lb) 7=265.



Continued on page 2

7/28/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 138 PROVIDENCE CREEK 398 PROVIDENCE CREEK DRIVE GARNER, NC
25-6341-R01	R10	Jack-Closed	2	1	Job Reference (optional) # 61068

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- 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 RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard

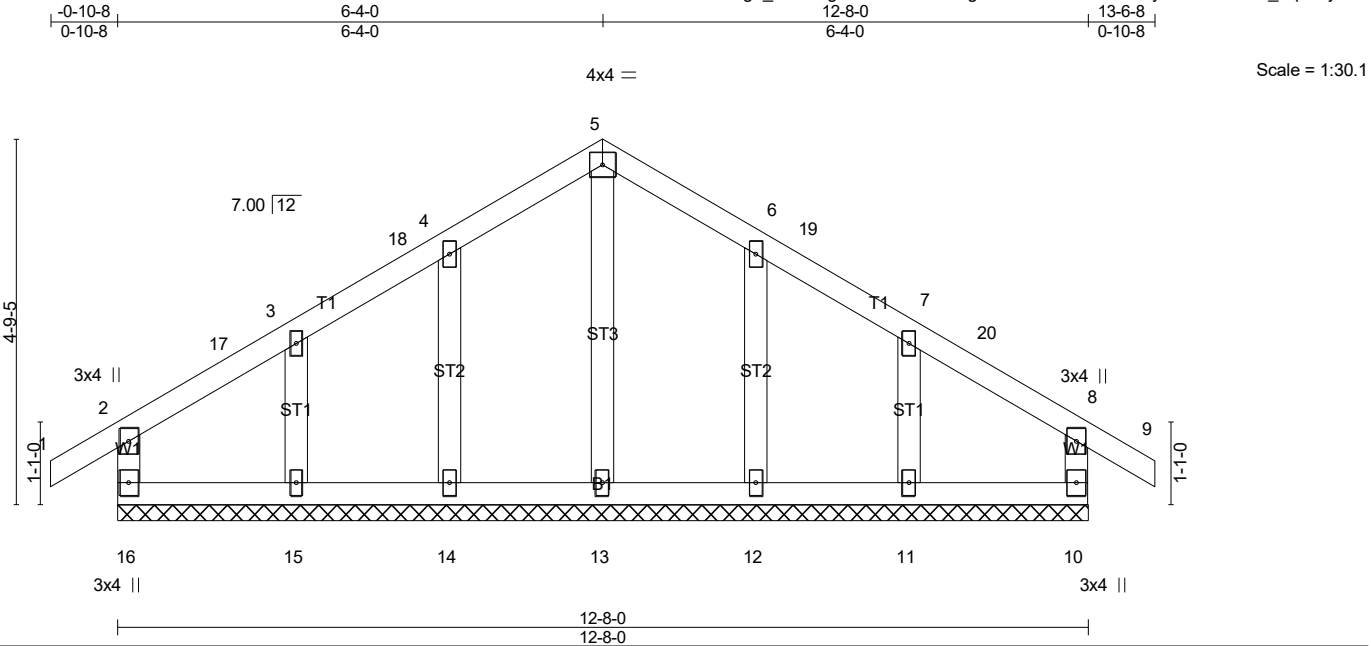


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Job	Truss	Truss Type	Qty	Ply	LOT 138 PROVIDENCE CREEK 398 PROVIDENCE CREEK DRIVE GARNER, NC
25-6341-R01	R11	Common Supported Gable	1	1	

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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	9	n/r	180	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.07	Vert(CT) -0.00	9	n/r	80		
TCDL 10.0	Lumber DOL 1.15	WB 0.06	Horz(CT) 0.00	10	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-R						
BCDL 10.0	Code IRC2021/TPI2014						Weight: 67 lb	FT = 20%

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

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

REACTIONS. All bearings 12-8-0.
(lb) - Max Horz 16=120(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 16, 10, 14, 15, 12, 11
Max Grav All reactions 250 lb or less at joint(s) 16, 10, 13, 14, 15, 12, 11

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

- NOTES-** (14-17)
- 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; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 3-11-2, Corner(3R) 3-11-2 to 8-8-14, Corner(3E) 8-8-14 to 13-6-8 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.
 - 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
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 10, 14, 15, 12, 11.



Continued on page 2

7/28/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 138 PROVIDENCE CREEK 398 PROVIDENCE CREEK DRIVE GARNER, NC
25-6341-R01	R11	Common Supported Gable	1	1	Job Reference (optional) # 61068

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- 14) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
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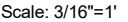
LOAD CASE(S) Standard



7/28/2025

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LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3 *Except*	WEBS	1 Row at midpt 5-14
	W1: 2x6 SP No.2		
OTHERS	2x4 SP No.3		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

NOTES- (12-15)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCFL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 9-11-10, Exterior(2R) 9-11-10 to 19-6-14, Interior(1) 19-6-14 to 25-7-6, Exterior(2E) 25-7-6 to 30-5-0 zone; cantilever right exposed ; end vertical left and right exposed; porch 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) TCELL: 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) All plates are 2x4 MT20 unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16 except (jt=lb) 14=140, 10=119.

7/28/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 138 PROVIDENCE CREEK 398 PROVIDENCE CREEK DRIVE GARNER, NC
25-6341-R01	R12	GABLE	1	1	Job Reference (optional) # 61068

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- 12) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
- 13) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
- 14) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
- 15) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard

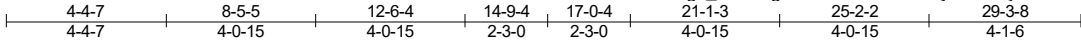


7/28/2025

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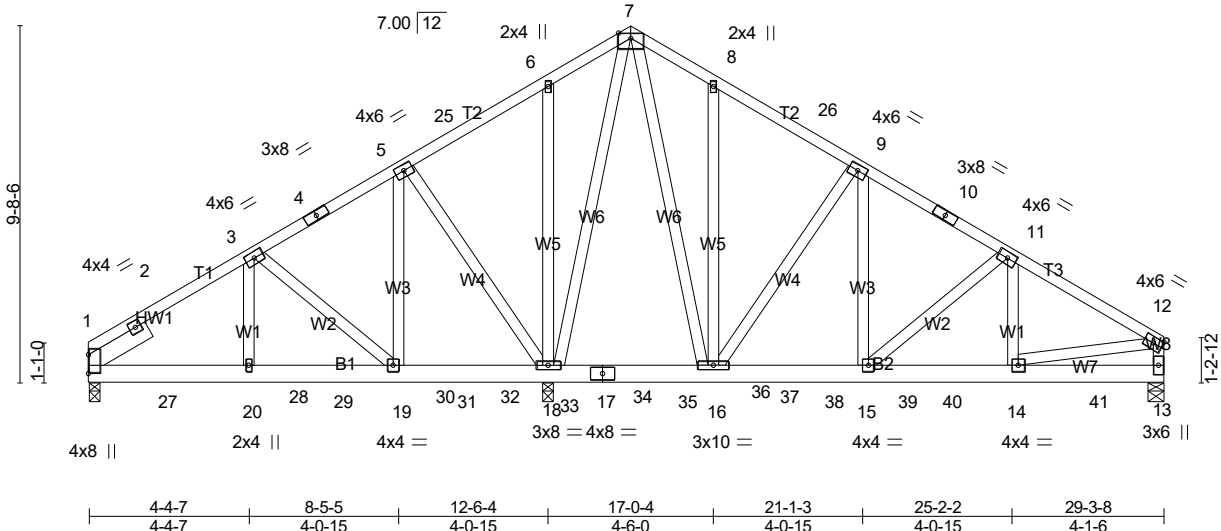
Job	Truss	Truss Type	Qty	Ply	LOT 138 PROVIDENCE CREEK 398 PROVIDENCE CREEK DRIVE GARNER, NC
25-6341-R01	R13	Common Girder	1	3	

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5x8 =

Scale = 1:62.8



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	-0.03 15-16 >999 240	MT20		244/190	
Snow (PF)	20.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.05 15-16 >999 180				
TCDL	10.0	Rep Stress Incr	NO	WB	0.38	Horz(CT)	0.01 13 n/a n/a				
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-MSH							
BCDL	10.0										
								Weight: 715 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

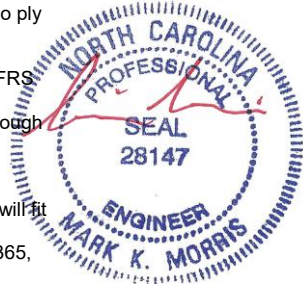
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 16-18.

REACTIONS. (lb/size) 1=1690/0-3-8 (min. 0-1-8), 18=6839/0-3-8 (min. 0-2-11), 13=1964/0-5-8 (min. 0-1-8)
Max Horz 1=209(LC 11)
Max Uplift 1=-365(LC 12), 18=-1226(LC 12), 13=-591(LC 13)
Max Grav 1=1710(LC 18), 18=6839(LC 1), 13=2030(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1027/210, 2-3=-1921/419, 3-4=-606/79, 4-5=-562/91, 5-25=-296/1201, 6-25=-277/1323, 6-7=-242/1247, 7-8=-381/203, 8-26=-312/132, 9-26=-394/120, 9-10=-1497/475, 10-11=-1592/464, 11-12=-2398/703, 12-13=-1710/507
BOT CHORD 1-27=-451/1603, 27-28=-451/1603, 20-28=-451/1603, 20-29=-451/1603, 29-30=-451/1603, 19-30=-451/1603, 19-31=-150/493, 31-32=-150/493, 32-33=-150/493, 18-33=-150/493, 18-34=-398/248, 17-34=-398/248, 17-35=-398/248, 35-36=-398/248, 16-36=-398/248, 16-37=-293/1329, 37-38=-293/1329, 15-38=-293/1329, 15-39=-571/2018, 39-40=-571/2018, 14-40=-571/2018
WEBS 3-20=-384/1391, 3-19=-1430/479, 5-19=-562/2752, 5-18=-2637/620, 6-18=-376/134, 7-18=-3036/675, 7-16=-674/2504, 8-16=-309/126, 9-16=-1802/650, 9-15=-596/1787, 11-15=-903/355, 11-14=-313/797, 12-14=-496/1821

- NOTES-** (11-14)
- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - 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.
 - 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; BC DL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; end vertical left and right exposed; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); PF=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 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, with BC DL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=365, 18=1226, 13=591.

Continued on page 2



7/28/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 138 PROVIDENCE CREEK 398 PROVIDENCE CREEK DRIVE GARNER, NC
25-6341-R01	R13	Common Girder	1	3	Job Reference (optional) # 61068

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- NOTES-** (11-14)
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 699 lb down and 207 lb up at 2-0-12, 699 lb down and 207 lb up at 4-0-12, 699 lb down and 207 lb up at 6-0-12, 699 lb down and 207 lb up at 8-0-12, 867 lb down and 66 lb up at 9-5-4, 867 lb down and 66 lb up at 11-5-4, 347 lb down and 22 lb up at 13-5-4, 347 lb down and 22 lb up at 15-5-4, 347 lb down and 22 lb up at 17-5-4, 518 lb down and 200 lb up at 19-5-4, 518 lb down and 200 lb up at 21-5-4, 518 lb down and 200 lb up at 23-5-4, and 518 lb down and 200 lb up at 25-5-4, and 518 lb down and 200 lb up at 27-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 11) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
 - 12) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
 - 13) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
 - 14) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAINING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-7=-60, 7-12=-60, 13-21=-20
 - Concentrated Loads (lb)
 - Vert: 14=-518(F) 27=-699(F) 28=-699(F) 29=-699(F) 30=-699(F) 31=-867(F) 33=-867(F) 34=-347(F) 35=-347(F) 37=-347(F) 38=-518(F) 39=-518(F) 40=-518(F) 41=-518(F)



7/28/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 138 PROVIDENCE CREEK 398 PROVIDENCE CREEK DRIVE GARNER, NC
25-6341-R01	SP01	Hip Girder	1	1	
Job Reference (optional)					# 61068

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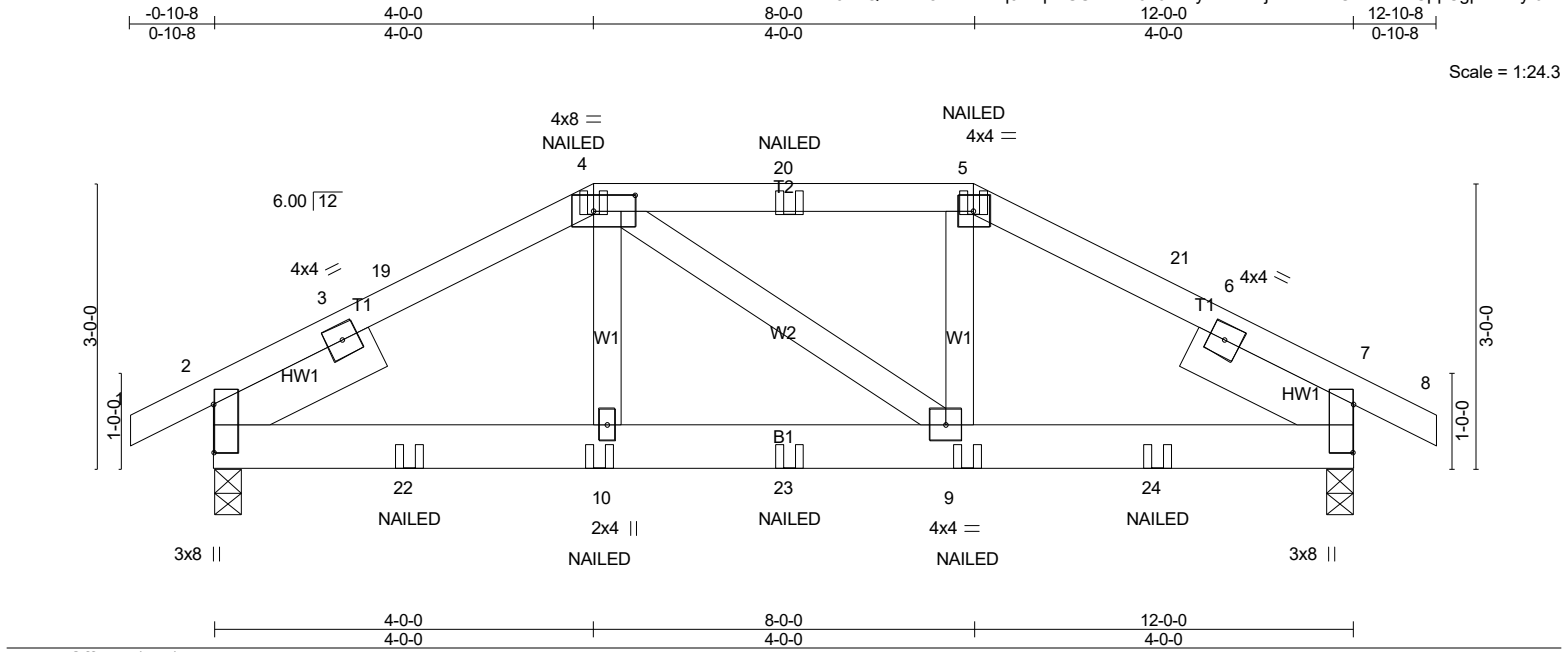


Plate Offsets (X,Y)-- [2:0-6-1,0-0-1], [4:0-5-4,0-2-0], [7:0-6-1,0-0-1]									
LOADING (psf)		SPACING	2-0-0	CSI		DEFL.	in (loc)	l/defl	L/d
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.02 9-10	>999	240
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.04 9-10	>999	180
TCDL	10.0	Rep Stress Incr	NO	WB	0.07	Horz(CT)	0.01 7	n/a	n/a
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-MSH					
BCDL	10.0								
								Weight: 72 lb FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-10-14 oc purlins.
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		
SLIDER	Left 2x6 SP No.2 1-11-0, Right 2x6 SP No.2 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=916/0-3-8 (min. 0-1-8), 7=918/0-3-8 (min. 0-1-8)
Max Horz2=36(LC 16)
Max Uplift2=-286(LC 9), 7=-287(LC 8)
Max Grav2=1074(LC 37), 7=1075(LC 37)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-364/178, 3-19=-1213/389, 4-19=-1105/377, 4-20=-991/351, 5-20=-991/351, 5-21=-1105/377, 6-21=-1214/389, 6-7=-366/179
BOT CHORD 2-22=-319/986, 10-22=-319/986, 10-23=-322/992, 9-23=-322/992, 9-24=-301/985, 7-24=-301/985

- NOTES-** (13)
- 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; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCCL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=286, 7=287.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 141 lb down and 53 lb up at 2-0-0, and 141 lb down and 53 lb up at 10-0-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - 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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Job	Truss	Truss Type	Qty	Ply	LOT 138 PROVIDENCE CREEK 398 PROVIDENCE CREEK DRIVE GARNER, NC
25-6341-R01	SP01	Hip Girder	1	1	Job Reference (optional) # 61068

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LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-60, 4-5=-60, 5-8=-60, 11-15=-20

Concentrated Loads (lb)

Vert: 4=-94(B) 5=-94(B) 10=-27(B) 9=-27(B) 19=-139(F) 20=-94(B) 21=-139(F) 22=-64(B) 23=-27(B) 24=-64(B)



7/28/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 138 PROVIDENCE CREEK 398 PROVIDENCE CREEK DRIVE GARNER, NC
25-6341-R01	SP02	Common	2	1	
Job Reference (optional)					# 61068

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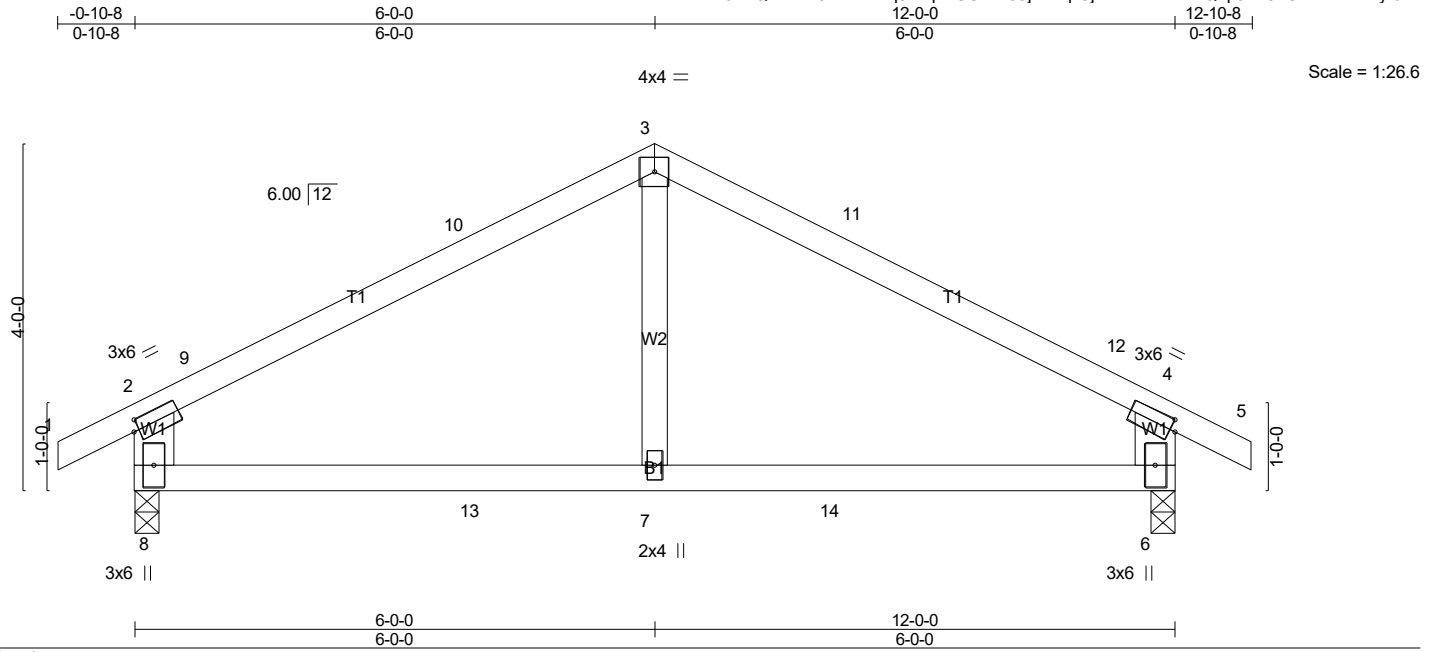


Plate Offsets (X,Y)-- [2:0-0-12,0-1-8], [4:0-0-12,0-1-8]							
LOADING (psf)		SPACING-		CSI.		DEFL.	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.54	in (loc)	l/defl
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.37	Vert(LL)	L/d
TCDL	10.0	Rep Stress Incr	YES	WB	0.09	Vert(CT)	
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-AS		Horz(CT)	
BCDL	10.0						
						PLATES	GRIP
						MT20	244/190
						Weight: 49 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x6 SP No.2 *Except*
W2: 2x4 SP No.3

BRACING-

TOP CHORD
BOT CHORD

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

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

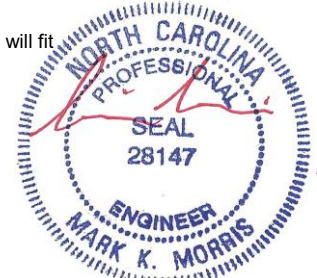
REACTIONS. (lb/size) 8=528/0-3-8 (min. 0-1-8), 6=528/0-3-8 (min. 0-1-8)
Max Horz 8=63(LC 13)
Max Uplift 8=85(LC 11), 6=85(LC 10)
Max Grav 8=612(LC 21), 6=612(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-9=-568/596, 9-10=-496/596, 3-10=-424/619, 3-11=-424/618, 11-12=-496/595,
4-12=-568/595, 2-8=-551/483, 4-6=-551/481
BOT CHORD 8-13=-381/393, 7-13=-381/393, 7-14=-381/393, 6-14=-381/393
WEBS 3-7=-330/220

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 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
- 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) 8, 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

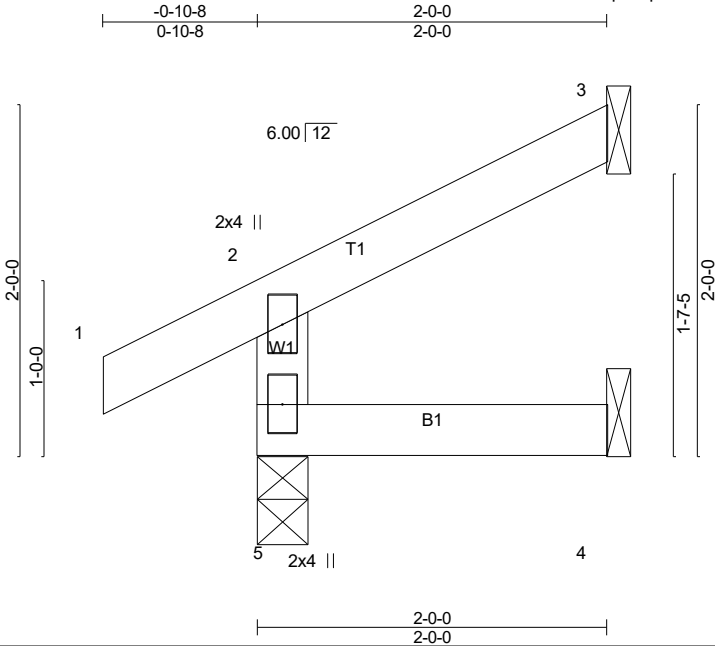


7/28/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 138 PROVIDENCE CREEK 398 PROVIDENCE CREEK DRIVE GARNER, NC
25-6341-R01	SPJ01	Jack-Open	2	1	

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Jul 29 20:24:28 2025 Page 1
ID:97bQtTowZ8dTuLxBq9ksq7zUUzD-39jzWFpCjiuDX2IDnFA1QopPpvvfxHDLvTD1IDyt6T1



Scale = 1:13.1

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.16	Vert(LL) 0.00	5	>999	240	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.07	Vert(CT) -0.00	4-5	>999	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT) -0.00	3	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MR						
BCDL 10.0	Code IRC2021/TPI2014						Weight: 9 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 2-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

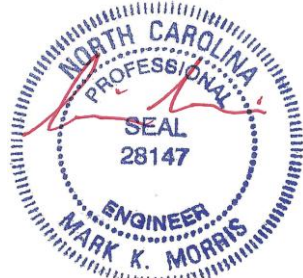
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 5=152/0-3-8 (min. 0-1-8), 3=41/Mechanical, 4=16/Mechanical
Max Horz 5=41(LC 11)
Max Uplift 5=-15(LC 14), 3=-31(LC 14), 4=-13(LC 11)
Max Grav 5=208(LC 21), 3=57(LC 21), 4=34(LC 7)

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

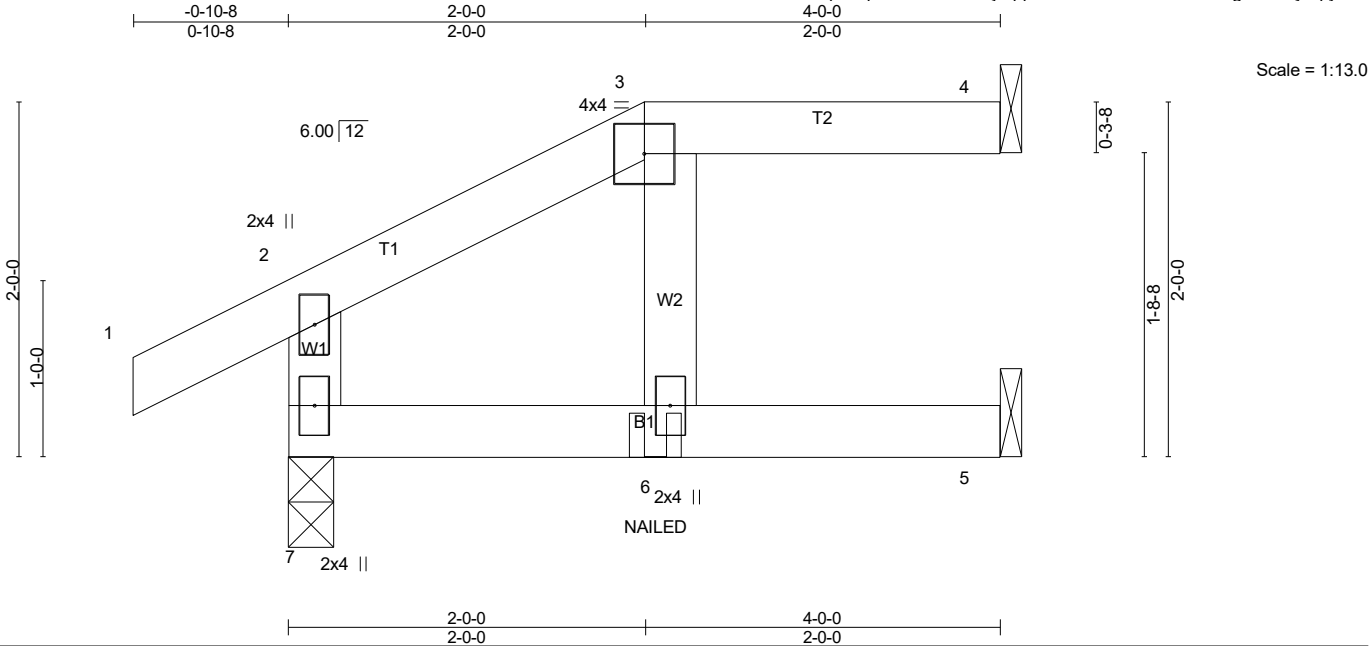
- NOTES-** (9)
- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TC DL=5.0psf; BC DL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.

LOAD CASE(S) Standard



7/28/2025

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LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	-0.02	6	>999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.03	6	>999		
TCDL	10.0	Rep Stress Incr	NO	WB	0.02	Horz(CT)	0.03	4	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-MP							
BCDL	10.0									Weight: 17 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" oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.

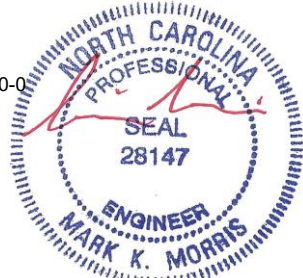
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 4=96/Mechanical, 7=250/0-3-0 (min. 0-1-8), 5=75/Mechanical
Max Horz 7=42(LC 9)
Max Uplift 4=-41(LC 9), 7=-51(LC 9), 5=-33(LC 9)
Max Grav 4=139(LC 33), 7=343(LC 34), 5=84(LC 33)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-7=-265/45

- NOTES-** (14)
- 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; BC DL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 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" tall by 1'-0" wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 7, 5.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 63 lb down and 22 lb up at 2'-0" on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - 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: 1-2=-60, 2-3=-60, 3-4=-60, 5-7=-20



Continued on page 2

7/28/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 138 PROVIDENCE CREEK 398 PROVIDENCE CREEK DRIVE GARNER, NC
25-6341-R01	SPJ02	Half Hip Girder	2	1	Job Reference (optional) # 61068

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LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 3=-57(F) 6=0(F)

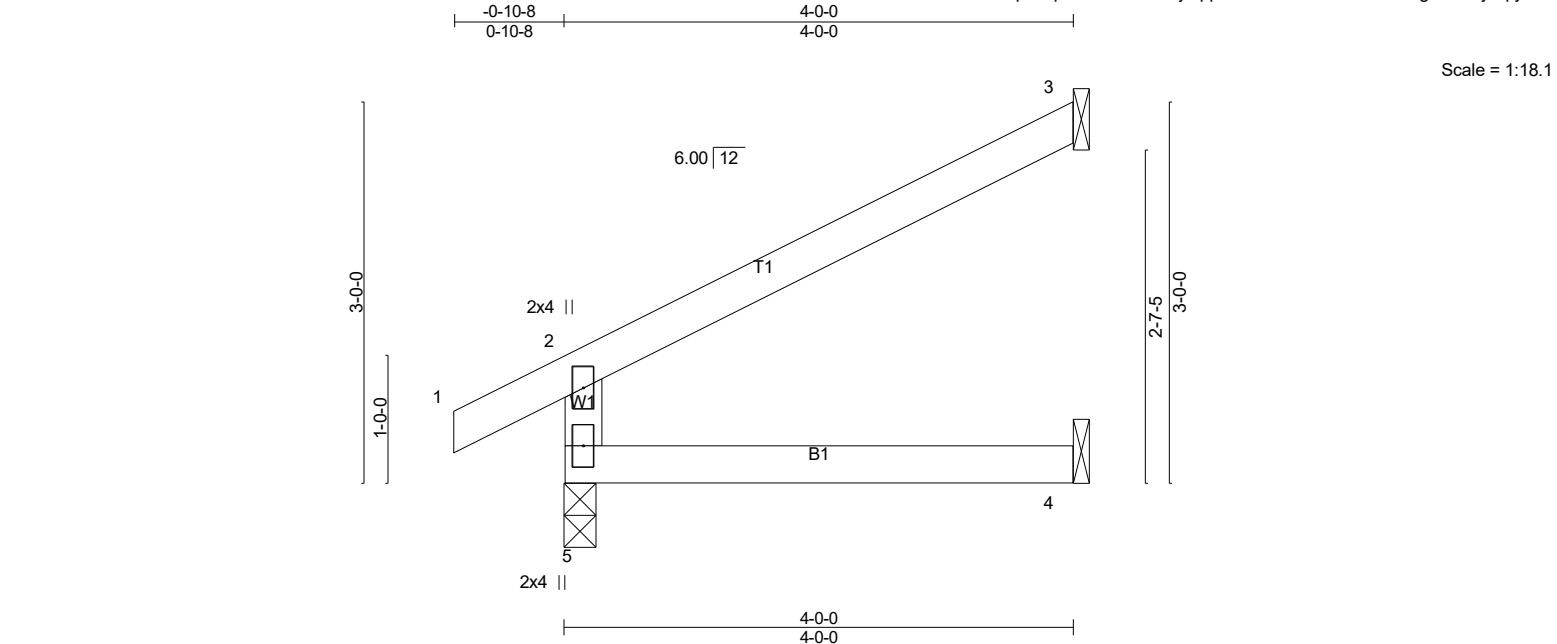


7/28/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 138 PROVIDENCE CREEK 398 PROVIDENCE CREEK DRIVE GARNER, NC
25-6341-R01	SPJ03	Jack-Open	3	1	

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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 0.32	Vert(LL)	0.04	4-5	>999	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.24	Vert(CT)	0.03	4-5	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	-0.03	3	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MR						
BCDL 10.0	Code IRC2021/TPI2014						Weight: 15 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'-0-0 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=221/0-3-0 (min. 0-1-8), 3=101/Mechanical, 4=43/Mechanical
Max Horz 5=71(LC 14)
Max Uplift 5=-20(LC 11), 3=-60(LC 14), 4=-19(LC 11)
Max Grav 5=322(LC 21), 3=154(LC 21), 4=72(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-293/121

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

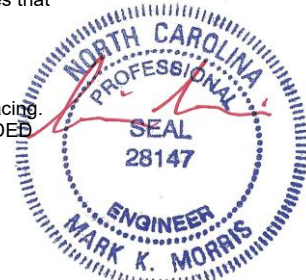
LOAD CASE(S) Standard



7/28/2025

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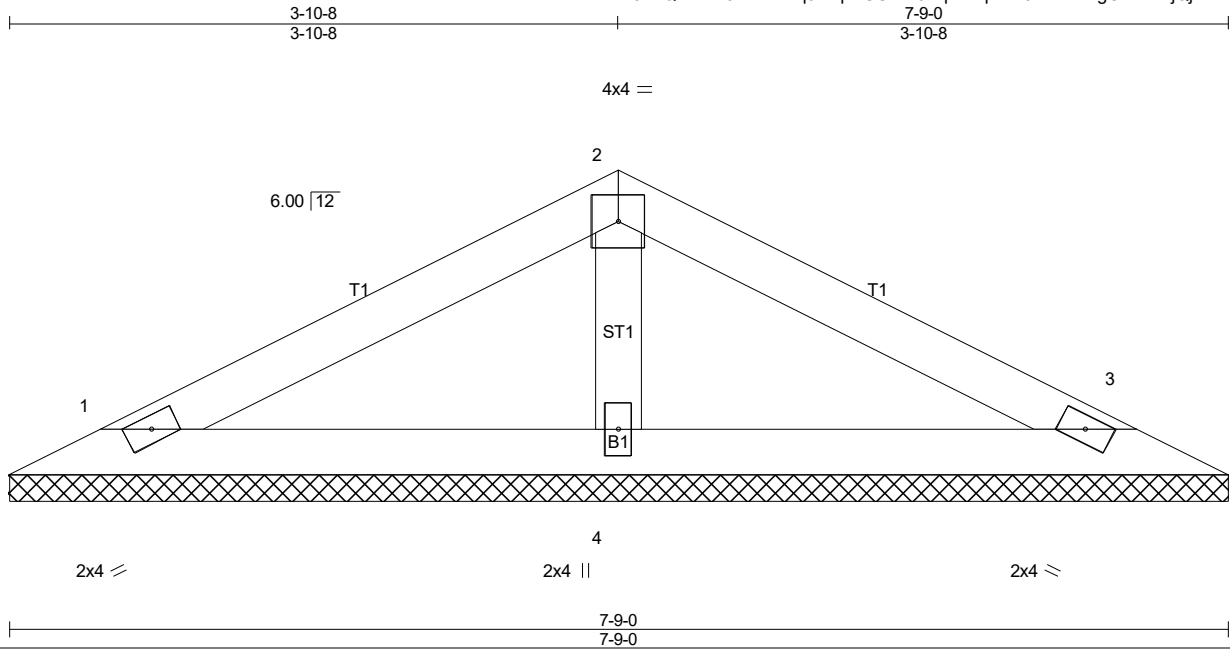
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Warning !—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation 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 138 PROVIDENCE CREEK 398 PROVIDENCE CREEK DRIVE GARNER, NC
25-6341-R01	VS02	Valley	1	1	
Job Reference (optional)					# 61068

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Jul 29 20:24:30 2025 Page 1
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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 0.28	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (PF) 20.0	Plate Grip DOL 1.15	BC 0.18	Vert(CT)	n/a	-	n/a	999		
TCDL 10.0	Lumber DOL 1.15	WB 0.04	Horz(CT)	0.00	3	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P							
BCDL 10.0	Code IRC2021/TPI2014							Weight: 24 lb	FT = 20%

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

BRACING-
TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins.
Rigid ceiling directly applied or 10-0-0 oc bracing.

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

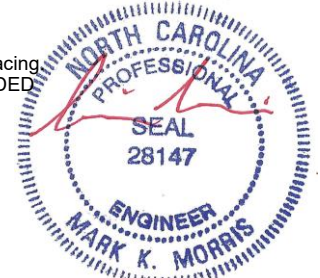
REACTIONS. (lb/size) 1=132/7-9-0 (min. 0-1-8), 3=132/7-9-0 (min. 0-1-8), 4=258/7-9-0 (min. 0-1-8)
Max Horz 1=24(LC 18)
Max Uplift 1=-29(LC 14), 3=-34(LC 15), 4=-5(LC 14)
Max Grav 1=176(LC 20), 3=176(LC 21), 4=258(LC 1)

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

NOTES- (9-12)

- 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; 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.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.
- Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
- Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
- Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
- SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAINING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard



7/28/2025

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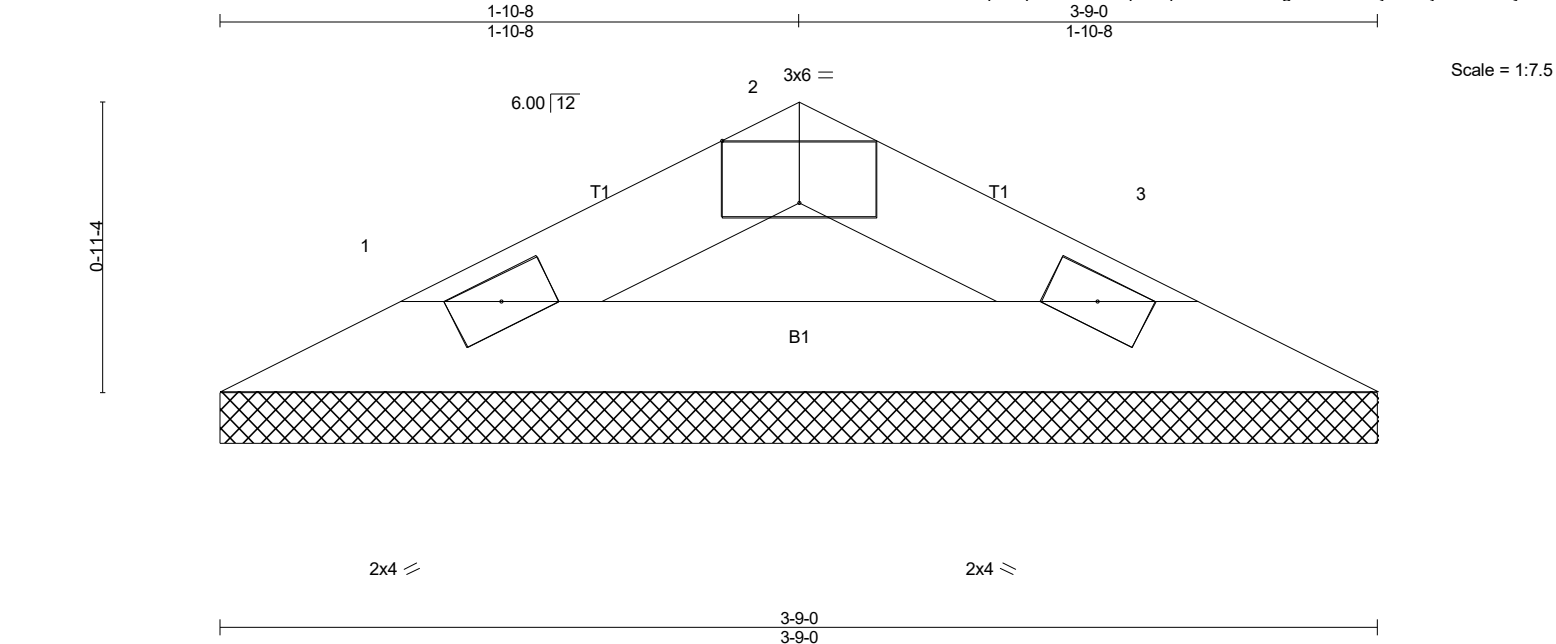


Plate Offsets (X,Y)-- [2:0-3-0,Edge]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.03	in (loc)	l/defl	MT20	GRIP
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.13	n/a	n/a		244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Vert(LL)	999		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-P		Vert(CT)	999		
BCDL	10.0					Horz(CT)	n/a	Weight: 10 lb	FT = 20%

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

Structural wood sheathing directly applied or 3-9-0 oc purlins.
Rigid ceiling directly applied or 10-0-0 oc bracing.

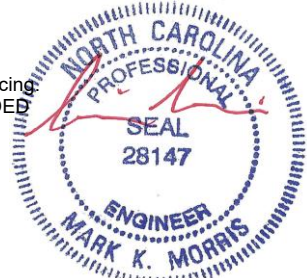
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=101/3-9-0 (min. 0-1-8), 3=101/3-9-0 (min. 0-1-8)
Max Horz 1=9(LC 14)
Max Uplift 1=12(LC 14), 3=12(LC 15)
Max Grav 1=108(LC 20), 3=108(LC 21)

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

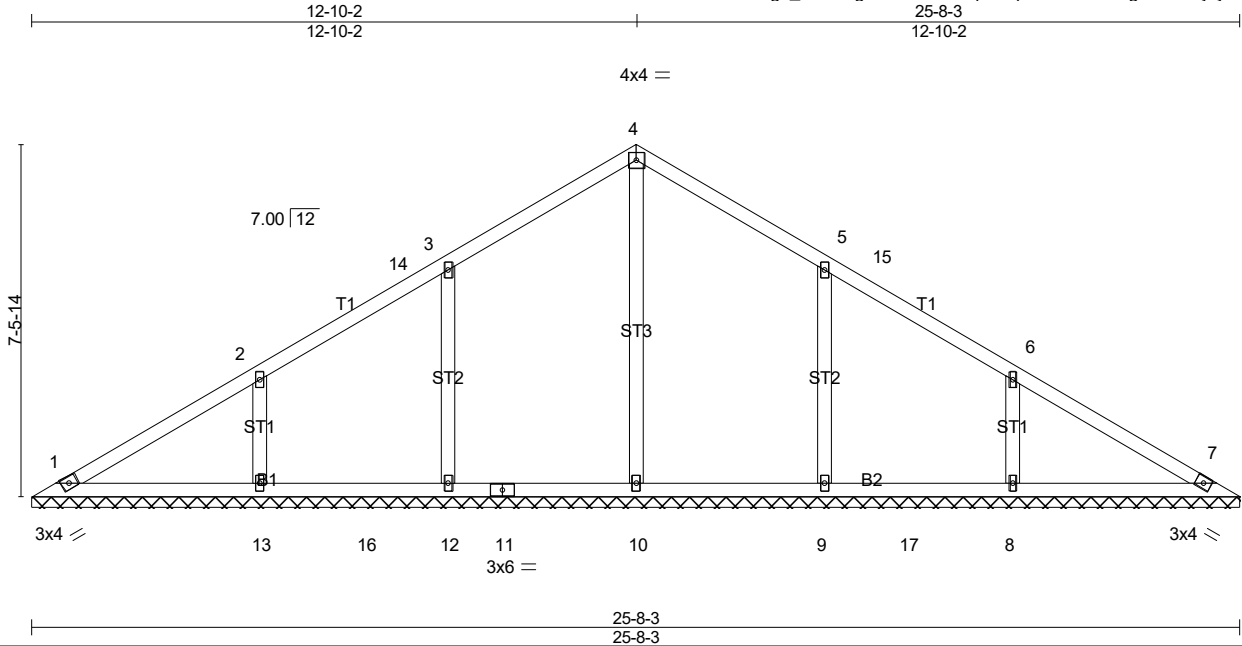
- NOTES-** (9-12)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end 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
 - 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
 - Unbalanced snow loads have been considered for this design.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
 - Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
 - Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
 - Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
 - SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAINING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard



7/28/2025

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LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	n/a	MT20		244/190	
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	n/a				
TCDL	10.0	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.00				
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-SH							
BCDL	10.0										
										Weight: 111 lb	FT = 20%

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

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

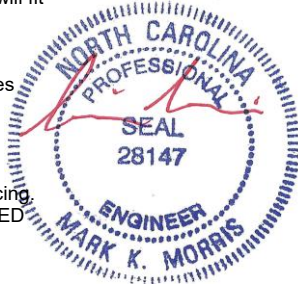
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 25-8-3.
(lb) - Max Horz 1=-158(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 12=-110(LC 14), 13=-122(LC 14), 9=-109(LC 15), 8=-122(LC 15)
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=456(LC 26), 12=523(LC 5), 13=395(LC 23), 9=523(LC 6), 8=395(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-12=-362/152, 2-13=-278/155, 5-9=-362/152, 6-8=-278/155

- NOTES-** (10-13)
- 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; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-6-8 to 5-4-1, Interior(1) 5-4-1 to 8-0-8, Exterior(2R) 8-0-8 to 17-7-11, Interior(1) 17-7-11 to 20-4-2, Exterior(2E) 20-4-2 to 25-1-12 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
 - 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.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - 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, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 12=110, 13=122, 9=109, 8=122.
 - Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
 - Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
 - Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
 - SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAINING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

Continued on page 2



7/28/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 138 PROVIDENCE CREEK 398 PROVIDENCE CREEK DRIVE GARNER, NC
25-6341-R01	VT01	Valley	1	1	Job Reference (optional) # 61068

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LOAD CASE(S) Standard



7/28/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 138 PROVIDENCE CREEK 398 PROVIDENCE CREEK DRIVE GARNER, NC
25-6341-R01	VT02	Valley	1	1	
					Job Reference (optional) # 61068

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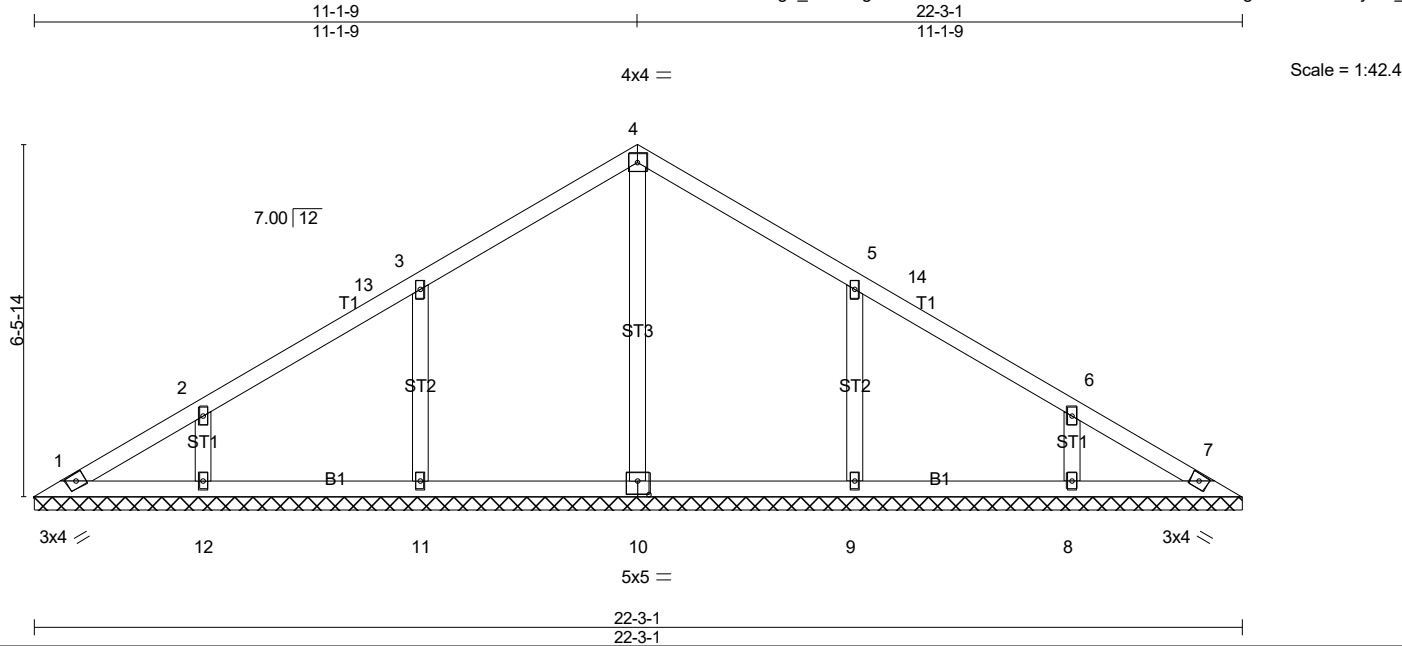


Plate Offsets (X,Y)-- [10:0-2-8,0-3-0]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.00	7	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-SH							Weight: 93 lb	FT = 20%
BCDL	10.0											

Job	Truss	Truss Type	Qty	Ply	LOT 138 PROVIDENCE CREEK 398 PROVIDENCE CREEK DRIVE GARNER, NC
25-6341-R01	VT02	Valley	1	1	Job Reference (optional) # 61068

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LOAD CASE(S) Standard

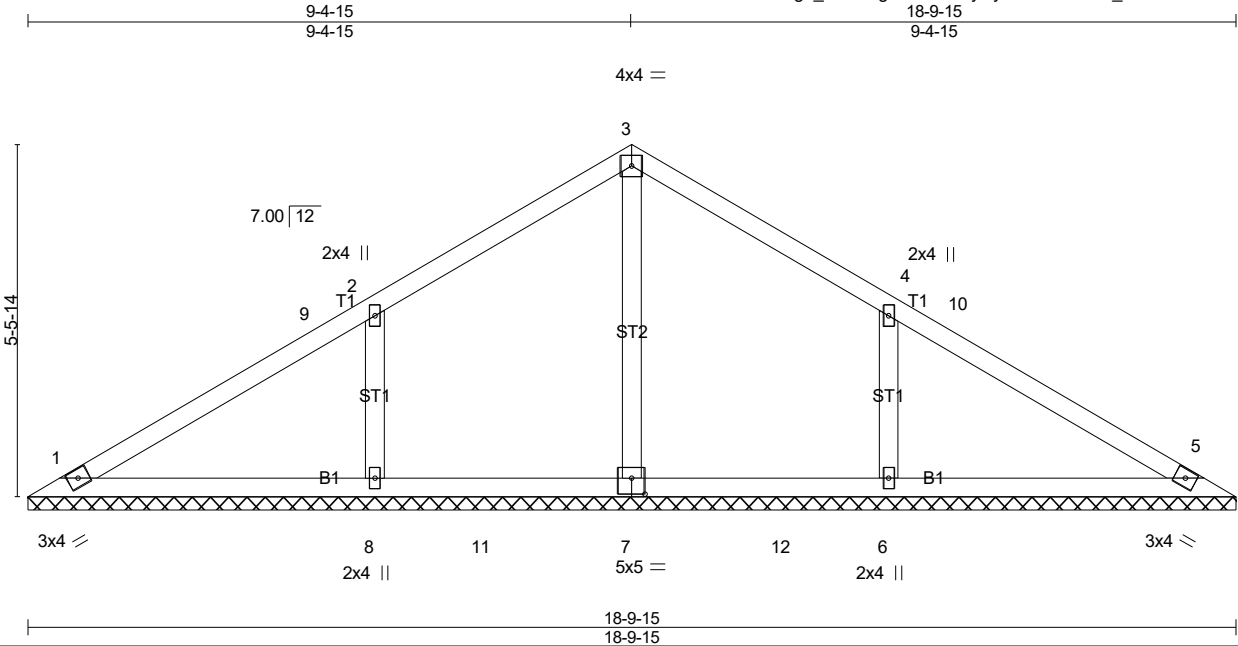


7/28/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 138 PROVIDENCE CREEK 398 PROVIDENCE CREEK DRIVE GARNER, NC
25-6341-R01	VT03	Valley	1	1	
Job Reference (optional)					# 61068

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Scale = 1:35.9

Plate Offsets (X,Y)-- [7:0-2-8,0-3-0]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	GRIP
TCLL (roof)	20.0	2-0-0		TC	0.37	in (loc)	l/defl	MT20	244/190
Snow (Pf)	20.0	Plate Grip DOL	1.15	BC	0.31	n/a	n/a		
TCDL	10.0	Lumber DOL	1.15	WB	0.10	n/a	n/a		
BCLL	0.0 *	Rep Stress Incr	YES	Matrix-SH		0.00	5		
BCDL	10.0	Code IRC2021/TPI2014						Weight: 74 lb	FT = 20%

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

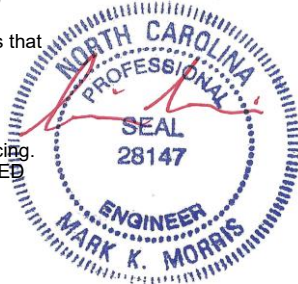
BRACING-
TOP CHORD
BOT CHORD
Structural wood sheathing directly applied or 6-0-0 oc purlins.
Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. All bearings 18-9-15.
(lb) - Max Horz 1=-114(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-145(LC 14), 6=-145(LC 15)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=384(LC 6), 8=542(LC 20), 6=542(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-423/180, 4-6=-423/180

- NOTES-** (9-12)
- 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; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-6-8 to 5-4-15, Exterior(2R) 5-4-15 to 13-4-15, Exterior(2E) 13-4-15 to 18-3-7 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
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=145, 6=145.
 - Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
 - Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
 - Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
 - SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAINING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.



LOAD CASE(S) Standard

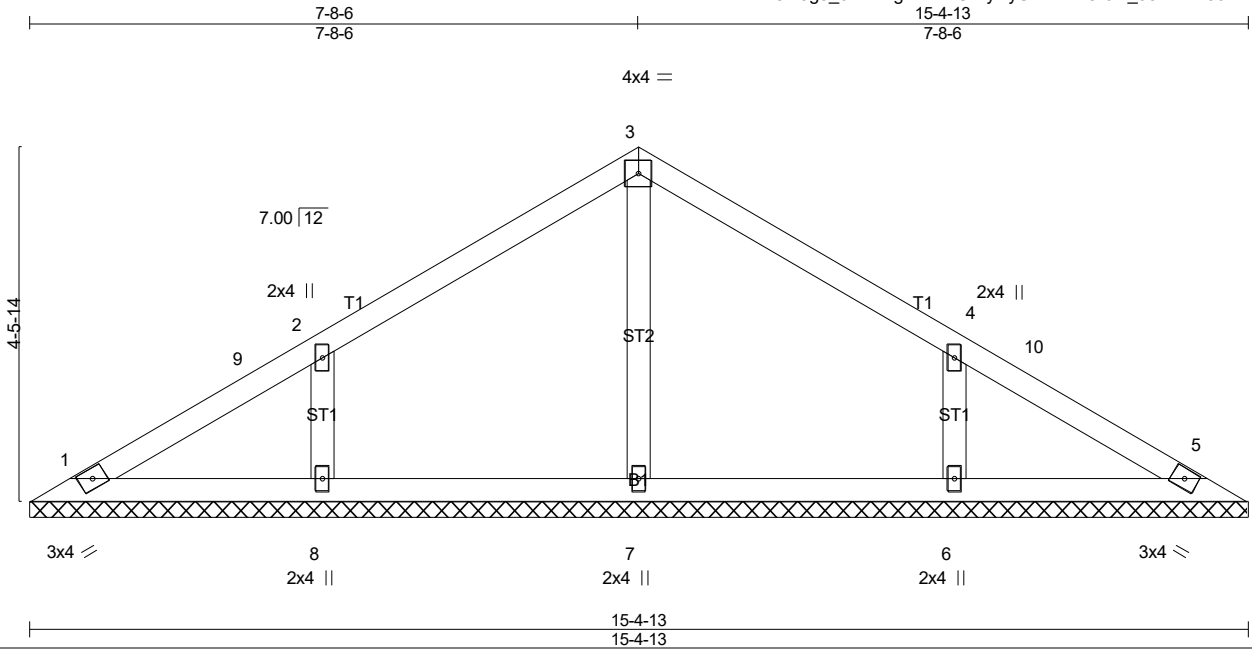
7/28/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 138 PROVIDENCE CREEK 398 PROVIDENCE CREEK DRIVE GARNER, NC
25-6341-R01	VT04	Valley	1	1	

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Job Reference (optional) # 61068



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.28	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.19	Vert(CT)	n/a	-	n/a	999		
TCDL 10.0	Lumber DOL 1.15	WB 0.08	Horz(CT)	0.00	5	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-SH							
BCDL 10.0	Code IRC2021/TPI2014							Weight: 58 lb	FT = 20%

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

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

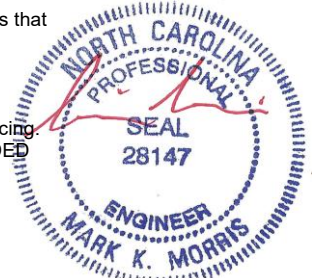
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 15-4-13.
(lb) - Max Horz 1=92(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-116(LC 14), 6=-116(LC 15)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=284(LC 20), 8=451(LC 20), 6=451(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-370/149, 4-6=-370/149

- NOTES-** (9-12)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=5.0psf; BCCL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-6-8 to 5-4-1, Exterior(2R) 5-4-1 to 10-0-11, Exterior(2E) 10-0-11 to 14-10-5 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
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=116, 6=116.
 - Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
 - Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
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 - 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.

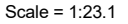
LOAD CASE(S) Standard



7/28/2025

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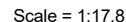
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MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

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

BRACING-
TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins.
Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (lb/size) 1=156/8-6-8 (min. 0-1-8), 3=156/8-6-8 (min. 0-1-8), 4=286/8-6-8 (min. 0-1-8)
Max Horz 1=48(LC 13)
Max Uplift1=34(LC 14), 3=-41(LC 15), 4=-2(LC 14)
Max Grav 1=215(LC 20), 3=215(LC 21), 4=291(LC 20)

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

NOTES- (9-12)

- 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; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) 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
- 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) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 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 RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard



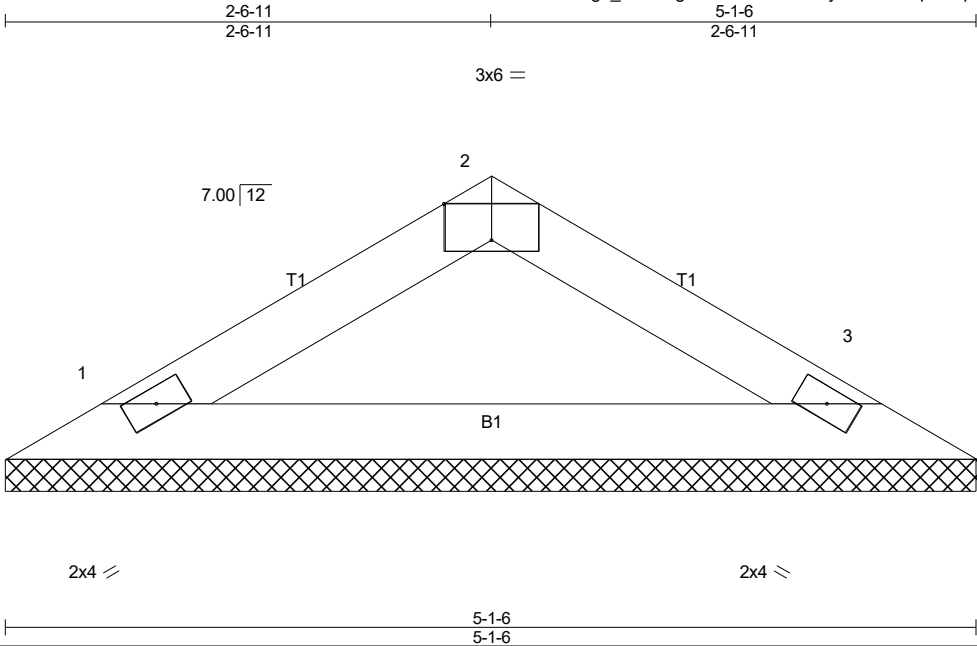
7/28/2025

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 138 PROVIDENCE CREEK 398 PROVIDENCE CREEK DRIVE GARNER, NC
25-6341-R01	VT07	Valley	1	1	

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Jul 29 20:24:33 2025 Page 1
ID:kHdPkcON9g3_0lfrDBlgKRzexCS-Q6WsZytKYFWWdpBBapmC7sWGawYYcYS52kwoyQyt6SY

Job Reference (optional) # 61068



Scale = 1:12.1

Plate Offsets (X,Y)-- [2:0-3-0,Edge]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	GRIP
TCLL (roof)	20.0	2-0-0		TC	0.10	in (loc)	l/defl	MT20	244/190
Snow (Pf)	20.0	Plate Grip DOL	1.15	BC	0.34	n/a	n/a		
TCDL	10.0	Lumber DOL	1.15	WB	0.00	n/a	n/a		
BCLL	0.0 *	Rep Stress Incr	YES	Matrix-P		0.00	3		
BCDL	10.0	Code IRC2021/TPI2014							
								Weight: 15 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 5-1-6 oc purlins.
Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (lb/size) 1=161/5-1-6 (min. 0-1-8), 3=161/5-1-6 (min. 0-1-8)
Max Horz 1=-26(LC 12)
Max Uplift 1=-19(LC 14), 3=-19(LC 15)
Max Grav 1=182(LC 20), 3=182(LC 21)

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

- NOTES-** (9-12)
- 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; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) 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
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
 - Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
 - Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
 - Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
 - SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAINING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

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7/28/2025

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