

# Mark Morris, P.E.

#126, 1317-M, Summerville, SC 29483

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

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

AST #: 57655

JOB: 25-2083-F02

JOB NAME: LOT 0.0005 CAMPBELL RIDGE

Wind Code: N/A

Wind Speed: Vult= N/A

Exposure Category: N/A

Mean Roof Height (feet): N/A

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

*15 Truss Design(s)*

Trusses:

F201, F202, F203, F206, F207, F208, F209, F210, F211, F212, F213, F214, F215, F216, F217



**3/11/2025**

**Mark Morris**

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0005 CAMPBELL RIDGE   160 ALDEN WAY ANGIER, NC
25-2083-F02	F201	Floor Supported Gable	1	1	Job Reference (optional) # 57655

Run: 85.630 s 3 Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Mar 11 12:30:52 2025 Page 1  
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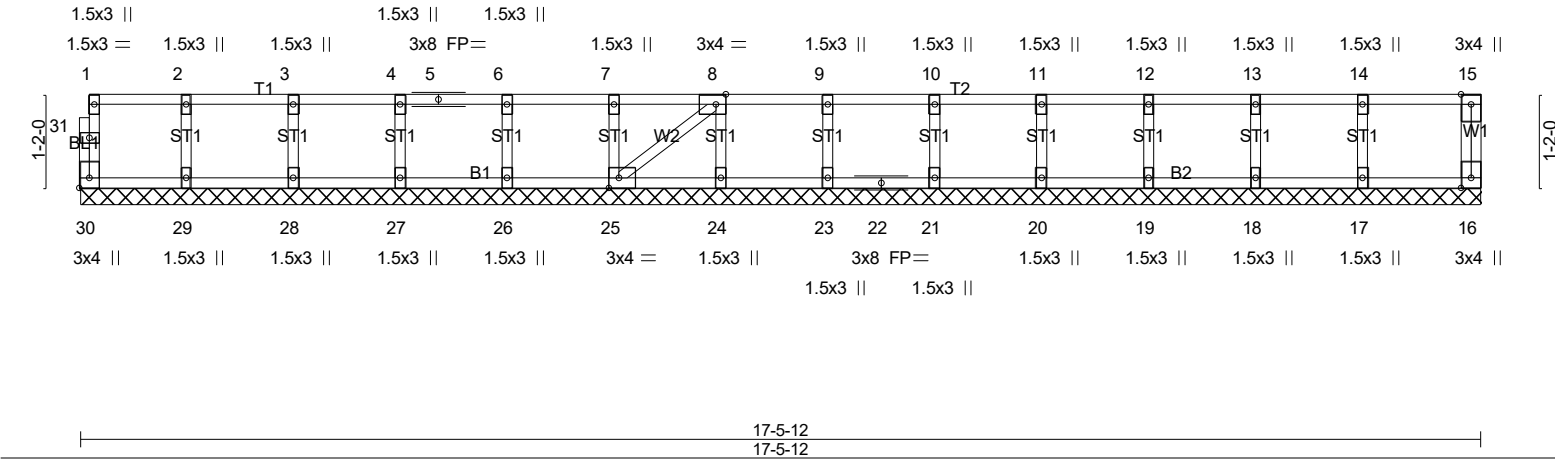


Plate Offsets (X,Y)-- [8:0-1-8,Edge], [25:0-1-8,Edge], [30:Edge,0-1-8]		17-5-12		17-5-12	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	L/d
TCLL 40.0	Plate Grip DOL 1.00	TC 0.07	Vert(LL)	n/a -	n/a 999
TCDL 10.0	Lumber DOL 1.00	BC 0.01	Vert(CT)	n/a -	n/a 999
BCLL 0.0	Rep Stress Incr YES	WB 0.03	Horz(CT)	0.00 16	n/a n/a
BCDL 5.0	Code IRC2021/TPI2014	Matrix-SH			
			PLATES	GRIP	
			MT20	244/190	
			Weight: 76 lb	FT = 20%F, 11%E	

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

REACTIONS. All bearings 17-5-12.  
(lb) - Max Grav All reactions 250 lb or less at joint(s) 30, 16, 29, 28, 27, 26, 25, 24, 23, 21, 20, 19, 18, 17

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

NOTES- (6)  
1) Gable requires continuous bottom chord bearing.  
2) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).  
3) Gable studs spaced at 1-4-0 oc.  
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.  
5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



3/11/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0005 CAMPBELL RIDGE   160 ALDEN WAY ANGIER, NC
25-2083-F02	F202	Floor	7	1	
					Job Reference (optional) # 57655

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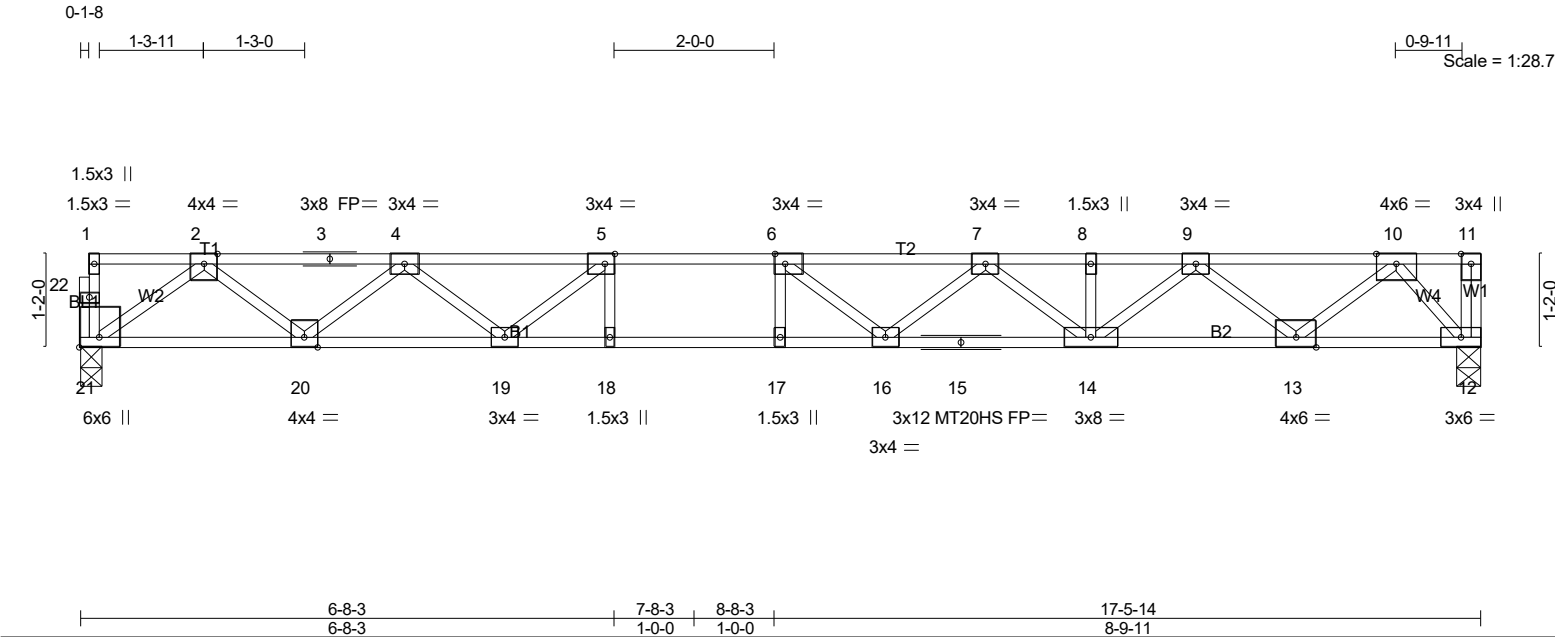


Plate Offsets (X,Y)-- [5:0-1-8,Edge], [6:0-1-8,Edge], [21:Edge,0-3-0]					
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) l/defl L/d
TCLL 40.0	Plate Grip DOL	1.00	TC 0.64	Vert(LL)	-0.30 16-17 >697 480
TCDL 10.0	Lumber DOL	1.00	BC 0.79	Vert(CT)	-0.41 16-17 >507 360
BCLL 0.0	Rep Stress Incr	YES	WB 0.53	Horz(CT)	0.06 12 n/a n/a
BCDL 5.0	Code IRC2021/TPI2014		Matrix-SH		
			PLATES		GRIP
			MT20		244/190
			MT20HS		187/143
			Weight: 88 lb		FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 5-9-2 oc purlins, except end verticals.
BOT CHORD 2x4 SP SS(flat) *Except* B2: 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (lb/size) 21=942/0-3-6 (min. 0-1-8), 12=948/0-3-8 (min. 0-1-8)

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

TOP CHORD 2-3=-2028/0, 3-4=-2028/0, 4-5=-3259/0, 5-6=-3830/0, 6-7=-3780/0, 7-8=-3111/0, 8-9=-3111/0, 9-10=-1700/0

BOT CHORD 20-21=0/1226, 19-20=0/2785, 18-19=0/3830, 17-18=0/3830, 16-17=0/3830, 15-16=0/3619, 14-15=0/3619, 13-14=0/2529, 12-13=0/837

WEBS 5-18=-65/292, 6-17=-260/97, 5-19=-879/0, 4-19=0/650, 4-20=-986/0, 2-20=0/1044, 2-21=-1514/0, 6-16=-424/231, 7-16=0/374, 7-14=-648/0, 9-14=0/744, 9-13=-1079/0, 10-13=0/1122, 10-12=-1256/0

- NOTES- (5)
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) All plates are MT20 plates unless otherwise indicated.
  - 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - 4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

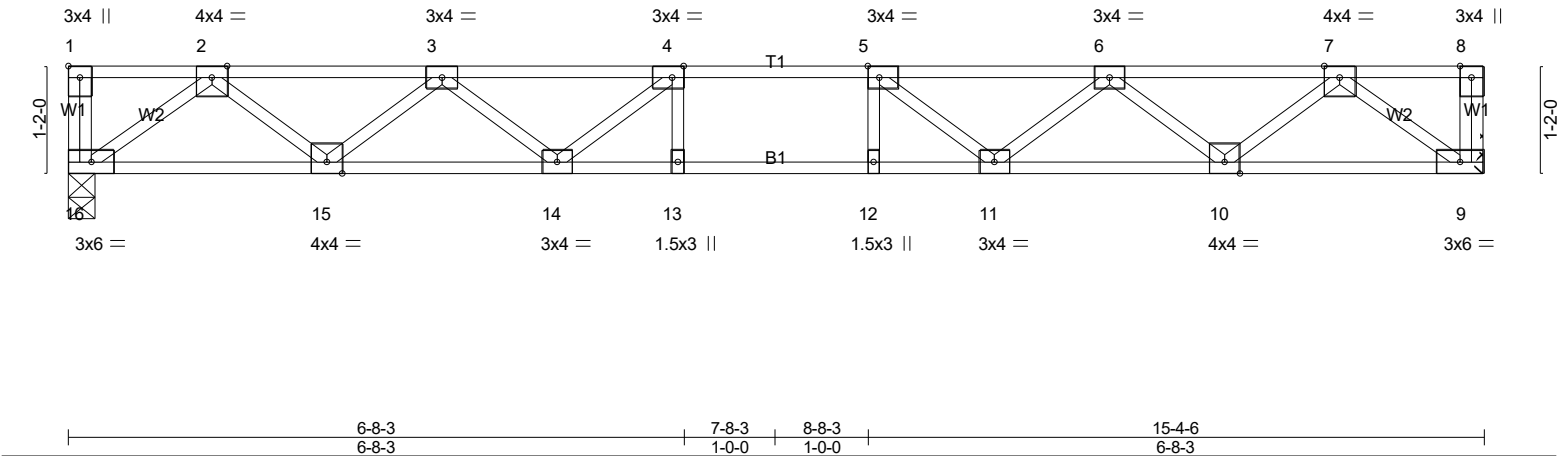
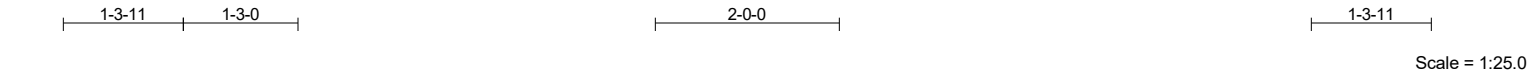


3/11/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0005 CAMPBELL RIDGE   160 ALDEN WAY ANGIER, NC
25-2083-F02	F203	Floor	7	1	
Job Reference (optional)					# 57655

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LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.36	Vert(LL)	-0.16 13-14 >999 480	MT20		244/190	
TCDL	10.0	Lumber DOL	1.00	BC	0.77	Vert(CT)	-0.22 12-13 >831 360				
BCLL	0.0	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.05 9 n/a n/a				
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							
Weight: 77 lb										FT = 20%F, 11%E	

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

REACTIONS. (lb/size) 16=831/0-3-6 (min. 0-1-8), 9=831/Mechanical

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1730/0, 3-4=-2678/0, 4-5=-2985/0, 5-6=-2678/0, 6-7=-1730/0  
BOT CHORD 15-16=0/1062, 14-15=0/2364, 13-14=0/2985, 12-13=0/2985, 11-12=0/2985, 10-11=0/2364, 9-10=0/1062  
WEBS 4-14=-580/0, 3-14=0/470, 3-15=-824/0, 2-15=0/870, 2-16=-1313/0, 5-11=-580/0, 6-11=0/470, 6-10=-824/0, 7-10=0/870, 7-9=-1313/0

NOTES- (4-7)  
1) Unbalanced floor live loads have been considered for this design.  
2) Refer to girder(s) for truss to truss connections.  
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.  
4) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.  
5) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.  
6) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.  
7) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAINING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard

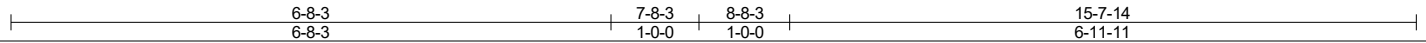


3/11/2025

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0-4-3  
Scale = 1:25.7



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

**NOTES- (4)**

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 3) CAUTION, Do not erect truss backwards.

A circular professional engineer seal for the State of North Carolina. The outer ring contains the text "NORTH CAROLINA" at the top and "ENGINEER" at the bottom. Inside the ring, the word "PROFESSIONAL" is at the top and "SEAL" is in the center. Below "SEAL" is the number "28147". The name "MARK K. MORRIS" is written in a cursive script across the seal.

3/11/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0005 CAMPBELL RIDGE   160 ALDEN WAY ANGIER, NC
25-2083-F02	F207	Floor Supported Gable	1	1	Job Reference (optional) # 57655

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0-1-8

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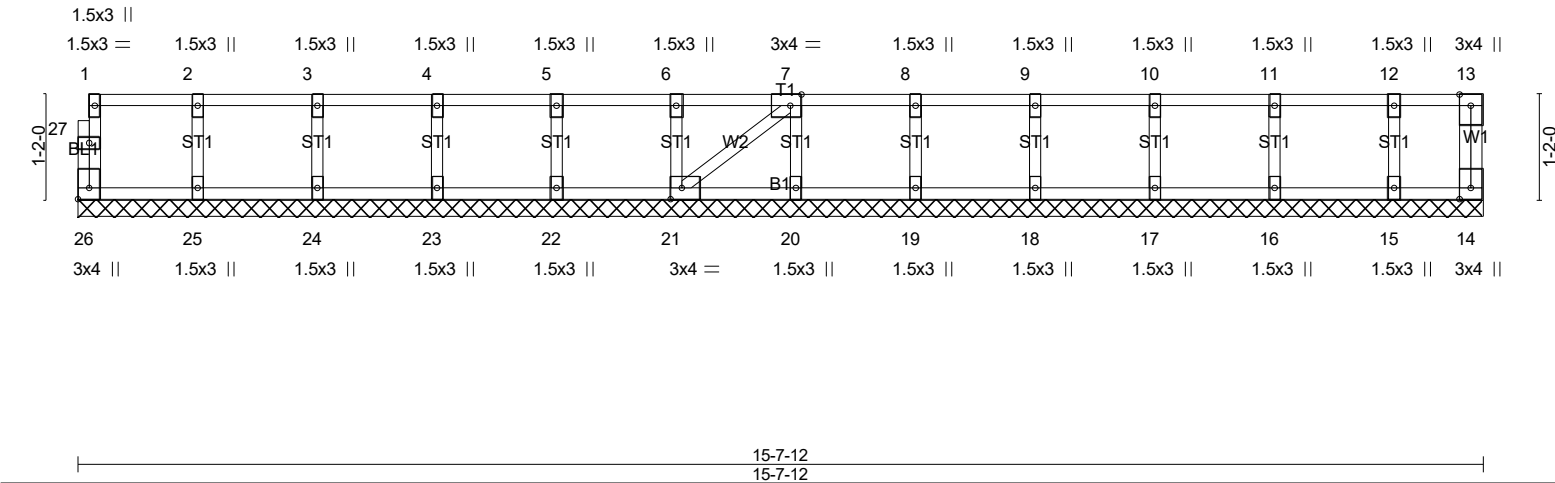


Plate Offsets (X,Y)-- [7:0-1-8,Edge], [21:0-1-8,Edge], [26:Edge,0-1-8]		15-7-12		15-7-12	
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) l/defl L/d
TCLL 40.0	Plate Grip DOL	1.00	TC 0.06	Vert(LL)	n/a - n/a 999
TCDL 10.0	Lumber DOL	1.00	BC 0.01	Vert(CT)	n/a - n/a 999
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00 14 n/a n/a
BCDL 5.0	Code IRC2021/TPI2014		Matrix-SH		
					Weight: 69 lb FT = 20%F, 11%E

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

REACTIONS. All bearings 15-7-12.  
(lb) - Max Grav All reactions 250 lb or less at joint(s) 26, 14, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15

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

- NOTES- (6)
- Gable requires continuous bottom chord bearing.
  - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - Gable studs spaced at 1-4-0 oc.
  - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



3/11/2025

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0-1-8

12-11-12  
12-11-12

LOAD CASE(S) Standard

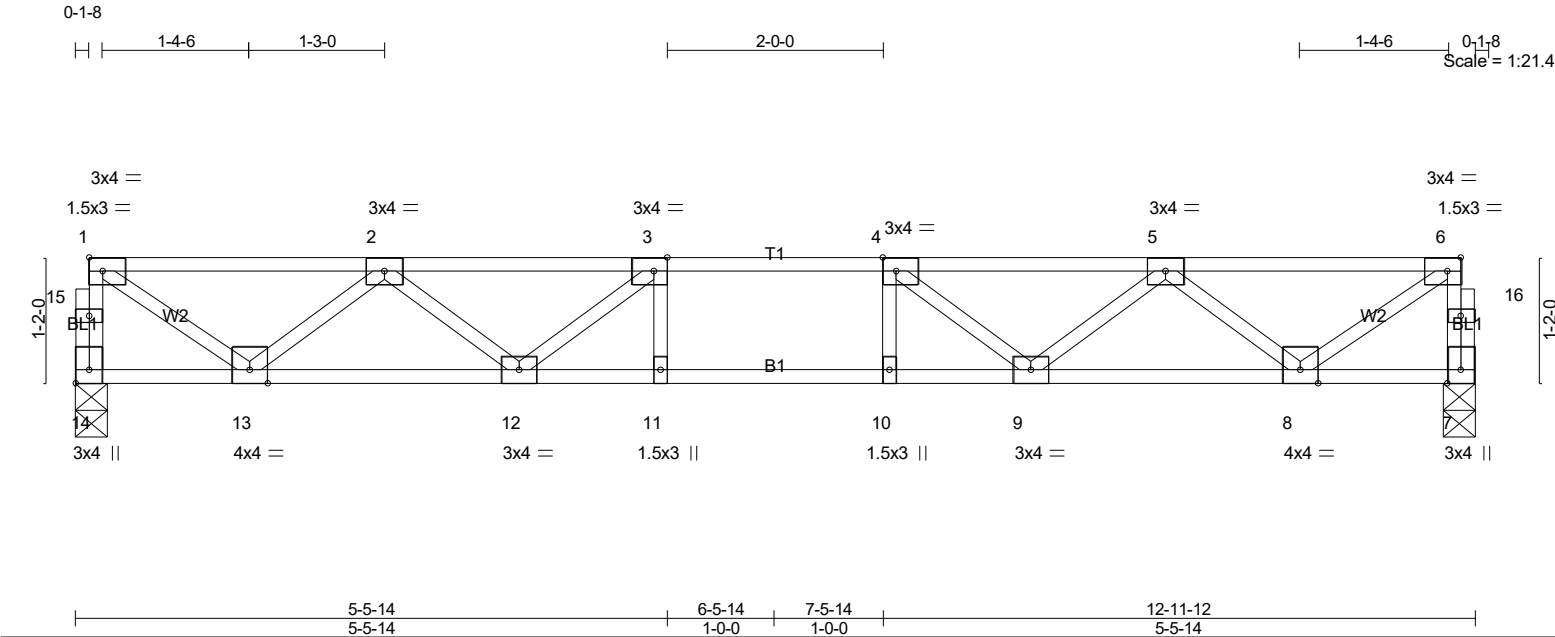
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Job	Truss	Truss Type	Qty	Ply	LOT 0.0005 CAMPBELL RIDGE   160 ALDEN WAY ANGIER, NC
25-2083-F02	F209	Floor	2	1	Job Reference (optional) # 57655

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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.32	Vert(LL)	-0.10	11-12	>999	480	MT20
TCDL 10.0	Lumber DOL	1.00	BC 0.58	Vert(CT)	-0.13	9-10	>999	360	244/190
BCLL 0.0	Rep Stress Incr	YES	WB 0.47	Horz(CT)	0.03	7	n/a	n/a	
BCDL 5.0	Code IRC2021/TPI2014		Matrix-SH						
									Weight: 65 lb FT = 20%F, 11%E

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

REACTIONS. (lb/size) 14=694/0-3-6 (min. 0-1-8), 7=694/0-3-6 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 14-15=-688/0, 1-15=-687/0, 7-16=-688/0, 6-16=-687/0, 1-2=-836/0, 2-3=-1812/0, 3-4=-2109/0, 4-5=-1812/0, 5-6=-836/0  
BOT CHORD 12-13=0/1506, 11-12=0/2109, 10-11=0/2109, 9-10=0/2109, 8-9=0/1506  
WEBS 3-12=-507/0, 2-12=0/427, 2-13=-872/0, 1-13=0/984, 4-9=-507/0, 5-9=0/427, 5-8=-872/0, 6-8=0/984

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

LOAD CASE(S) Standard



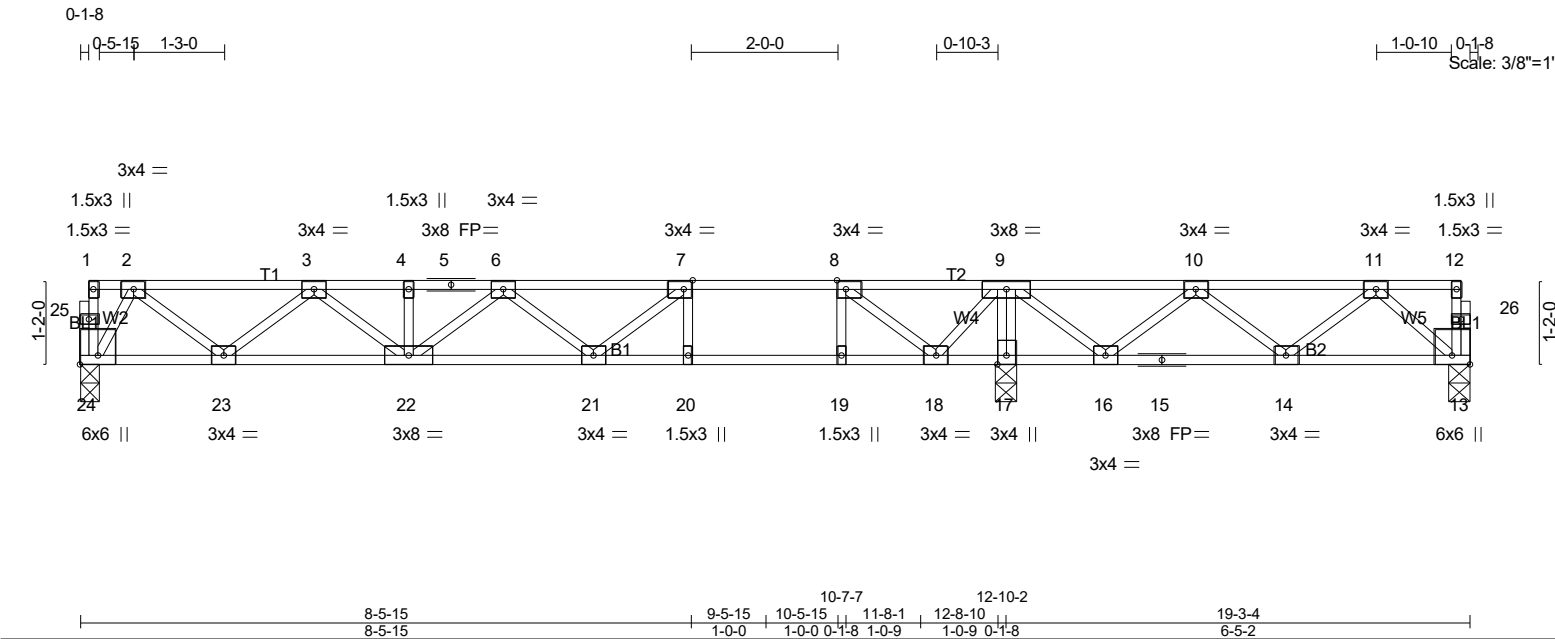
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Job	Truss	Truss Type	Qty	Ply	LOT 0.0005 CAMPBELL RIDGE   160 ALDEN WAY ANGIER, NC
25-2083-F02	F210	Floor	3	1	
					# 57655
					Job Reference (optional)

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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.83	Vert(LL)	-0.25 20-21	>612	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.88	Vert(CT)	-0.34 20-21	>451	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.38	Horz(CT)	0.03 13	n/a	n/a		
BCDL 5.0	Code IRC2021/TPI2014		Matrix-SH						
									Weight: 100 lb FT = 20%F, 11%E

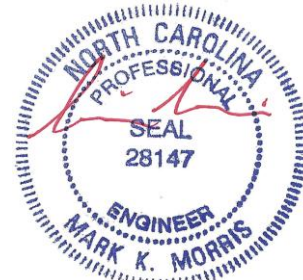
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP SS(flat) *Except* B2: 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 17-18,16-17.
WEBS 2x4 SP No.3(flat)	

**REACTIONS.** (lb/size) 24=697/0-3-6 (min. 0-1-8), 17=1035/0-3-8 (min. 0-1-8), 13=348/0-3-6 (min. 0-1-8)  
Max Grav 24=703(LC 3), 17=1035(LC 1), 13=376(LC 7)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1058/0, 3-4=-1954/0, 4-5=-1954/0, 5-6=-1954/0, 6-7=-2133/0, 7-8=-1724/0,  
8-9=-668/0, 9-10=-476/0, 10-11=-559/0  
BOT CHORD 23-24=0/442, 22-23=0/1639, 21-22=0/2254, 20-21=0/1724, 19-20=0/1724, 18-19=0/1724,  
15-16=0/698, 14-15=0/698, 13-14=0/384  
WEBS 7-20=-399/0, 8-19=0/456, 9-17=-914/0, 7-21=0/562, 6-22=-383/0, 3-22=0/402,  
3-23=-756/0, 2-23=0/803, 2-24=-870/0, 8-18=-1360/0, 9-18=0/775, 9-16=0/408,  
10-16=-376/0, 11-13=-511/0

**NOTES-** (4)  
1) Unbalanced floor live loads have been considered for this design.  
2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.  
3) CAUTION, Do not erect truss backwards.

**LOAD CASE(S)** Standard

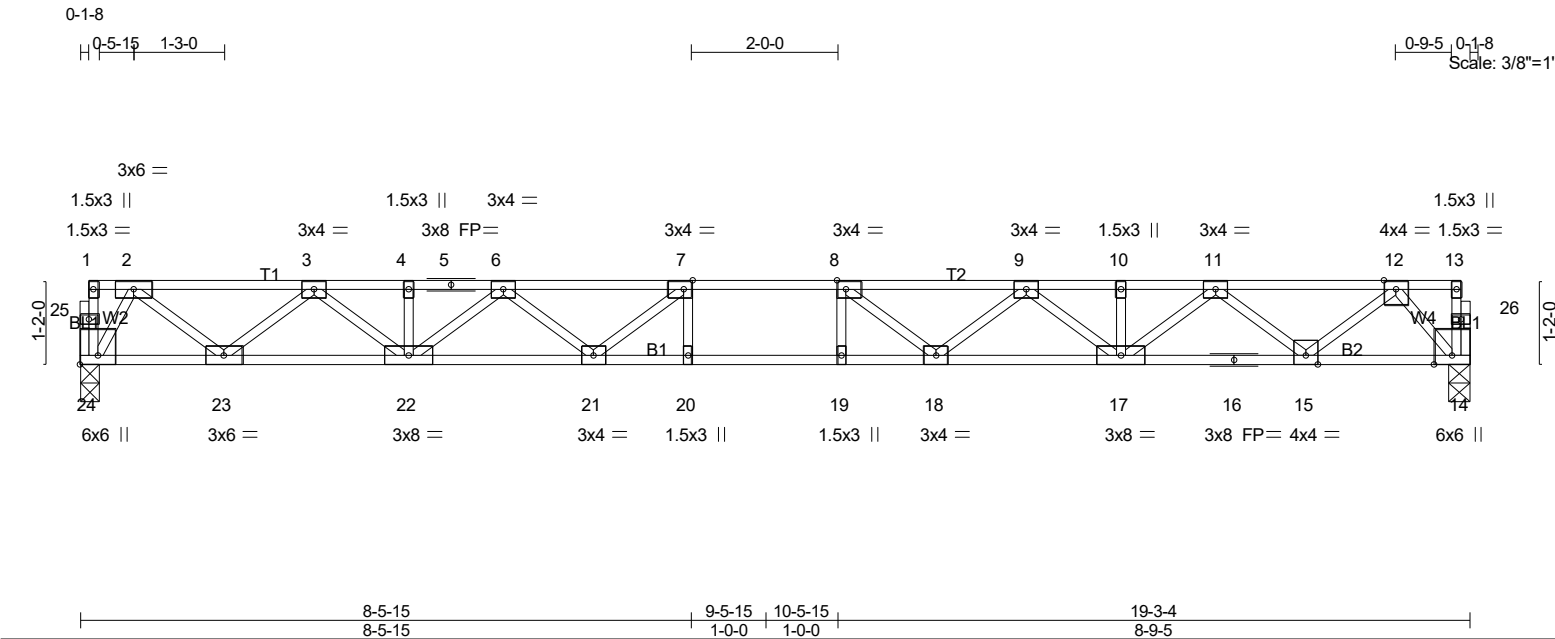


3/11/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0005 CAMPBELL RIDGE   160 ALDEN WAY ANGIER, NC
25-2083-F02	F211	Floor	5	1	
Job Reference (optional)					# 57655

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ID:pMqJz?gO\_6c5LW5fiGO4QyyWlk-ejotW7rQCCtCLi2ejkZW5b2PoSEx9ZwUackVnjzc0iy



LOADING (psf)	SPACING-	1-7-3	CS.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.46	Vert(LL)	-0.31 19-20	>747	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.92	Vert(CT)	-0.42 19-20	>542	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.50	Horz(CT)	0.07 14	n/a	n/a		
BCDL 5.0	Code IRC2021/TPI2014		Matrix-SH						
								Weight: 98 lb	FT = 20%F, 11%E

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 19-20.
WEBS 2x4 SP No.3(flat)	

**REACTIONS.** (lb/size) 24=831/0-3-6 (min. 0-1-8), 14=831/0-3-6 (min. 0-1-8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1325/0, 3-4=-2720/0, 4-5=-2720/0, 5-6=-2720/0, 6-7=-3509/0, 7-8=-3788/0, 8-9=-3565/0, 9-10=-2835/0, 10-11=-2835/0, 11-12=-1502/0  
BOT CHORD 23-24=0/513, 22-23=0/2114, 21-22=0/3233, 20-21=0/3788, 19-20=0/3788, 18-19=0/3788, 17-18=0/3324, 16-17=0/2263, 15-16=0/2263, 14-15=0/717  
WEBS 7-21=-579/9, 6-21=0/454, 6-22=-656/0, 3-22=0/773, 3-23=-1028/0, 2-23=0/1057, 2-24=-1008/0, 8-18=-531/57, 9-18=0/423, 9-17=-624/0, 11-17=0/730, 11-15=-990/0, 12-15=0/1022, 12-14=-1096/0

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

**LOAD CASE(S)** Standard



3/11/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0005 CAMPBELL RIDGE   160 ALDEN WAY ANGIER, NC
25-2083-F02	F212	Floor	5	1	
Job Reference (optional)					# 57655

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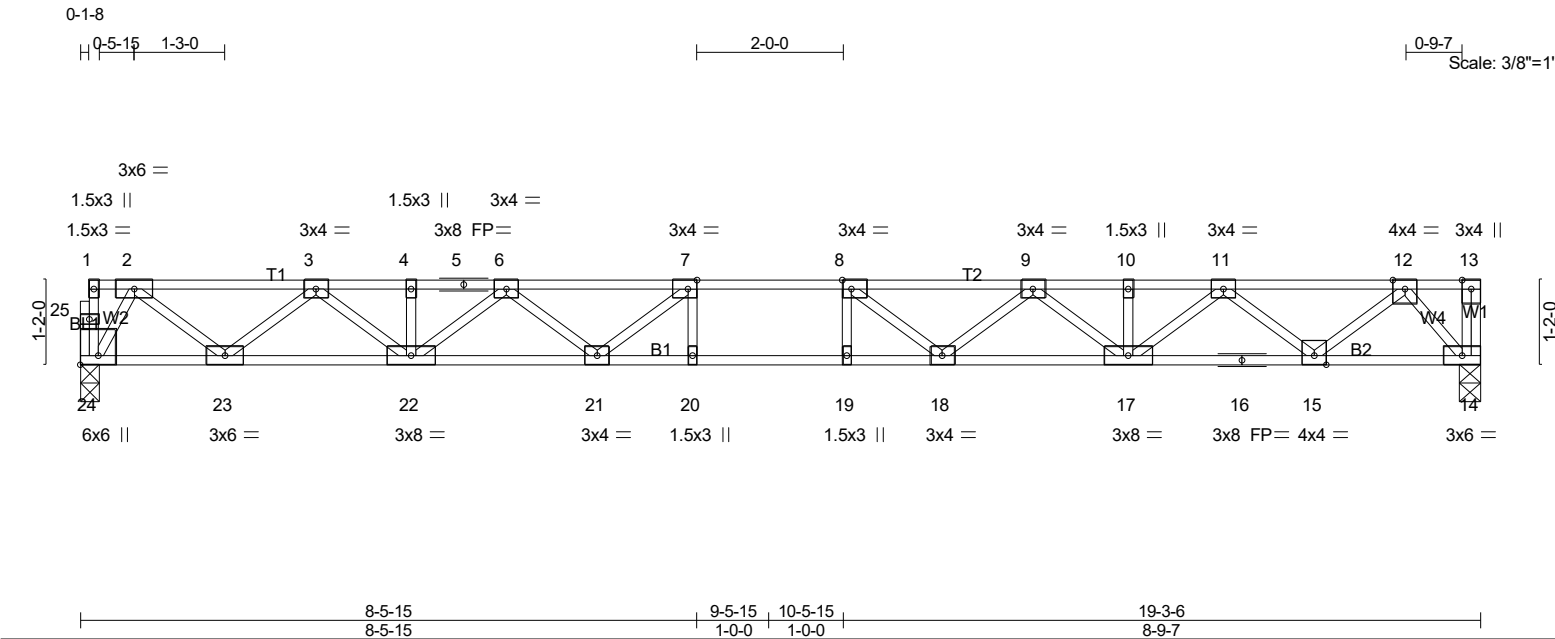


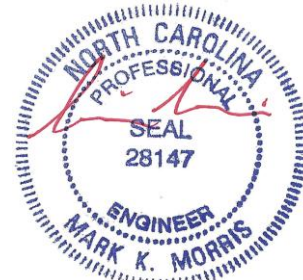
Plate Offsets (X,Y)-- [7:0-1-8,Edge], [8:0-1-8,Edge], [24:Edge,0-3-0]										
LOADING (psf)		SPACING- 1-7-3		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP		
TCLL	40.0	Plate Grip DOL	1.00	TC	0.46	Vert(LL)	-0.31 19-20	>745	480	MT20 244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.92	Vert(CT)	-0.42 19-20	>541	360	
BCLL	0.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.07 14	n/a	n/a	
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH						Weight: 99 lb FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 19-20.
WEBS 2x4 SP No.3(flat)	
REACTIONS. (lb/size) 24=832/0-3-6 (min. 0-1-8), 14=837/0-3-8 (min. 0-1-8)	

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1326/0, 3-4=-2722/0, 4-5=-2722/0, 5-6=-2722/0, 6-7=-3512/0, 7-8=-3792/0, 8-9=-3570/0, 9-10=-2841/0, 10-11=-2841/0, 11-12=-1510/0  
BOT CHORD 23-24=0/513, 22-23=0/2116, 21-22=0/3236, 20-21=0/3792, 19-20=0/3792, 18-19=0/3792, 17-18=0/3330, 16-17=0/2270, 15-16=0/2270, 14-15=0/725  
WEBS 7-21=-581/9, 6-21=0/455, 6-22=-656/0, 3-22=0/774, 3-23=-1028/0, 2-23=0/1058, 2-24=-1008/0, 8-18=-531/59, 9-18=0/423, 9-17=-624/0, 11-17=0/730, 11-15=-989/0, 12-15=0/1022, 12-14=-1101/0

NOTES- (4)  
1) Unbalanced floor live loads have been considered for this design.  
2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.  
3) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

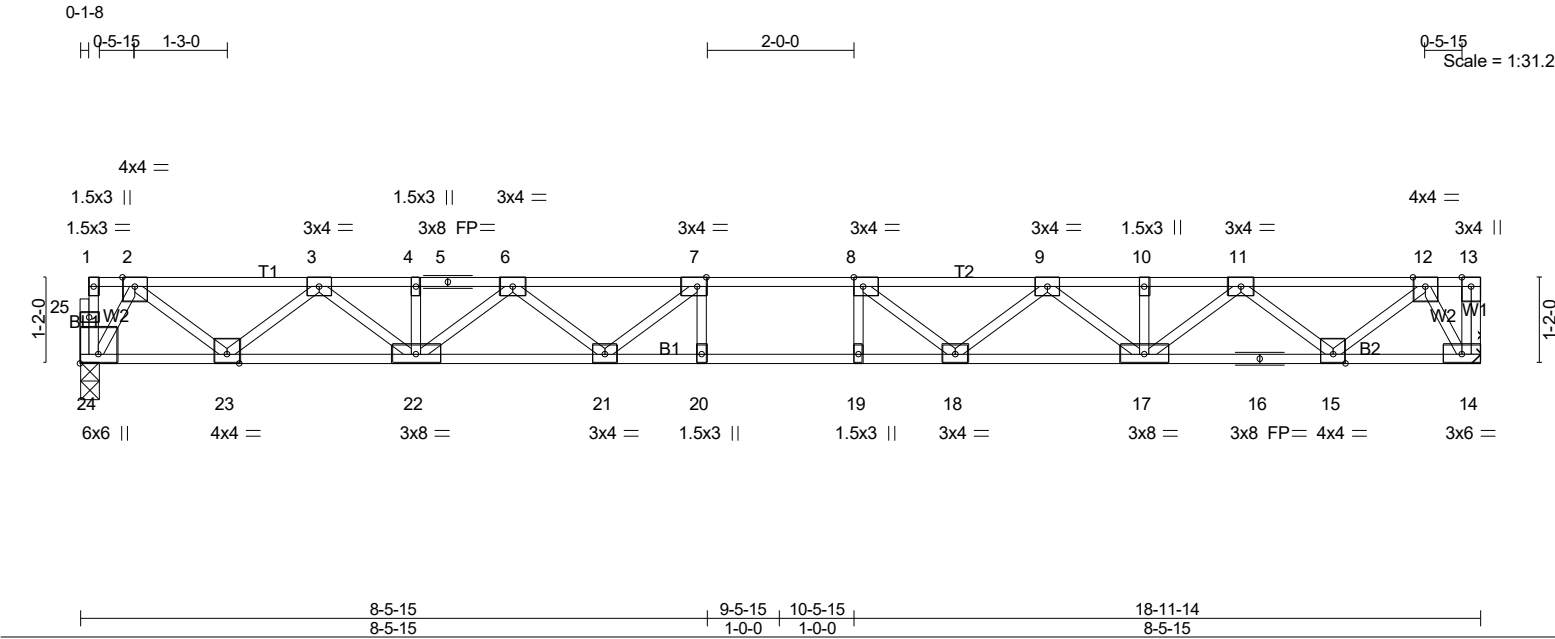


3/11/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0005 CAMPBELL RIDGE   160 ALDEN WAY ANGIER, NC
25-2083-F02	F213	Floor	3	1	
Job Reference (optional)					# 57655

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LOADING (psf)	SPACING-	1-7-3	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.43	Vert(LL)	-0.29 19-20	>785	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.87	Vert(CT)	-0.40 19-20	>569	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.49	Horz(CT)	0.07 14	n/a	n/a		
BCDL 5.0	Code IRC2021/TPI2014		Matrix-SH					Weight: 98 lb	FT = 20%F, 11%E

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	
<b>REACTIONS.</b> (lb/size) 24=819/0-3-6 (min. 0-1-8), 14=824/Mechanical	

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1303/0, 3-4=-2667/0, 4-5=-2667/0, 5-6=-2667/0, 6-7=-3426/0, 7-8=-3678/0, 8-9=-3426/0, 9-10=-2667/0, 10-11=-2667/0, 11-12=-1303/0  
BOT CHORD 23-24=0/505, 22-23=0/2077, 21-22=0/3168, 20-21=0/3678, 19-20=0/3678, 18-19=0/3678, 17-18=0/3168, 16-17=0/2077, 15-16=0/2077, 14-15=0/506  
WEBS 7-21=-549/27, 6-21=0/434, 6-22=-640/0, 3-22=0/753, 3-23=-1008/0, 2-23=0/1038, 2-24=-994/0, 8-18=-549/27, 9-18=0/434, 9-17=-640/0, 11-17=0/752, 11-15=-1008/0, 12-15=0/1038, 12-14=-989/0

- NOTES-** (5)  
1) Unbalanced floor live loads have been considered for this design.  
2) Refer to girder(s) for truss to truss connections.  
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.  
4) CAUTION, Do not erect truss backwards.

**LOAD CASE(S)** Standard

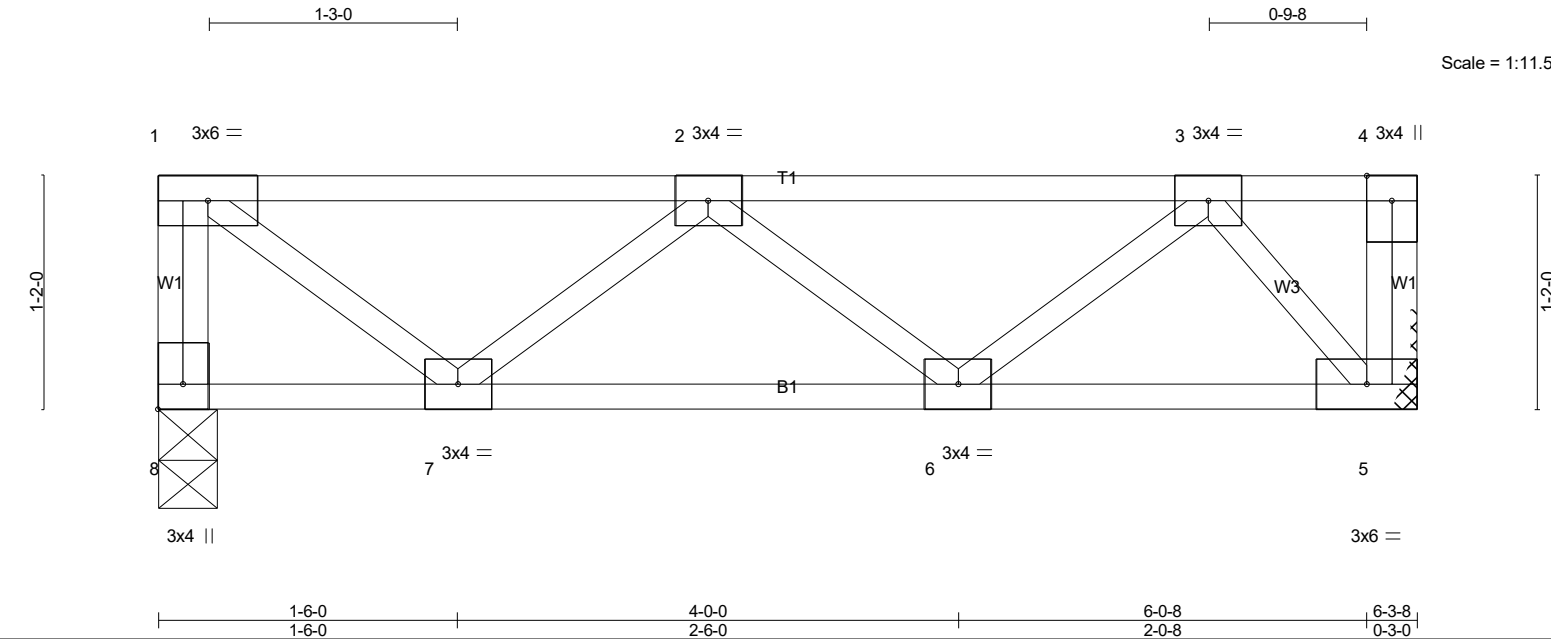


3/11/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0005 CAMPBELL RIDGE   160 ALDEN WAY ANGIER, NC
25-2083-F02	F214	FLOOR	1	1	Job Reference (optional) # 57655

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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.28	Vert(LL)	-0.01	6	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.12	Vert(CT)	-0.01	6-7	>999	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.18	Horz(CT)	0.00	5	n/a	n/a		
BCDL 5.0	Code IRC2021/TPI2014		Matrix-P							
									Weight: 35 lb	FT = 20%F, 11%E

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

REACTIONS. (lb/size) 8=332/0-3-8 (min. 0-1-8), 5=332/Mechanical

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

TOP CHORD 1-8=-327/0, 1-2=-295/0, 2-3=-422/0

BOT CHORD 6-7=0/538, 5-6=0/275

WEBS 1-7=0/370, 2-7=-317/0, 3-5=-416/0

NOTES- (3)

1) Refer to girder(s) for truss to truss connections.

2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



3/11/2025

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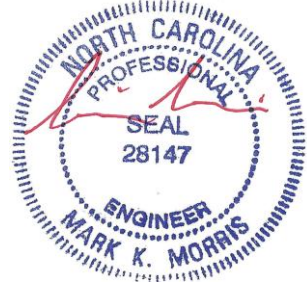
[illegible]

<b>LUMBER-</b>		<b>BRACING-</b>	
TOP CHORD	2x4 SP No.1(flat)	TOP CHORD	Structural wood sheathing directly applied or 5-7-1 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.1(flat)	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 18-20.
WEBS	2x4 SP No.3(flat)		
<b>REACTIONS.</b> (lb/size) 26=856/0-3-8 (min. 0-1-8), 13=851/0-3-6 (min. 0-1-8)			

**NOTES-** (5)

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10'-0" o.c. and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



3/11/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0005 CAMPBELL RIDGE   160 ALDEN WAY ANGIER, NC
25-2083-F02	F216	FLOOR SUPPORTED GABL	1	1	Job Reference (optional) # 57655

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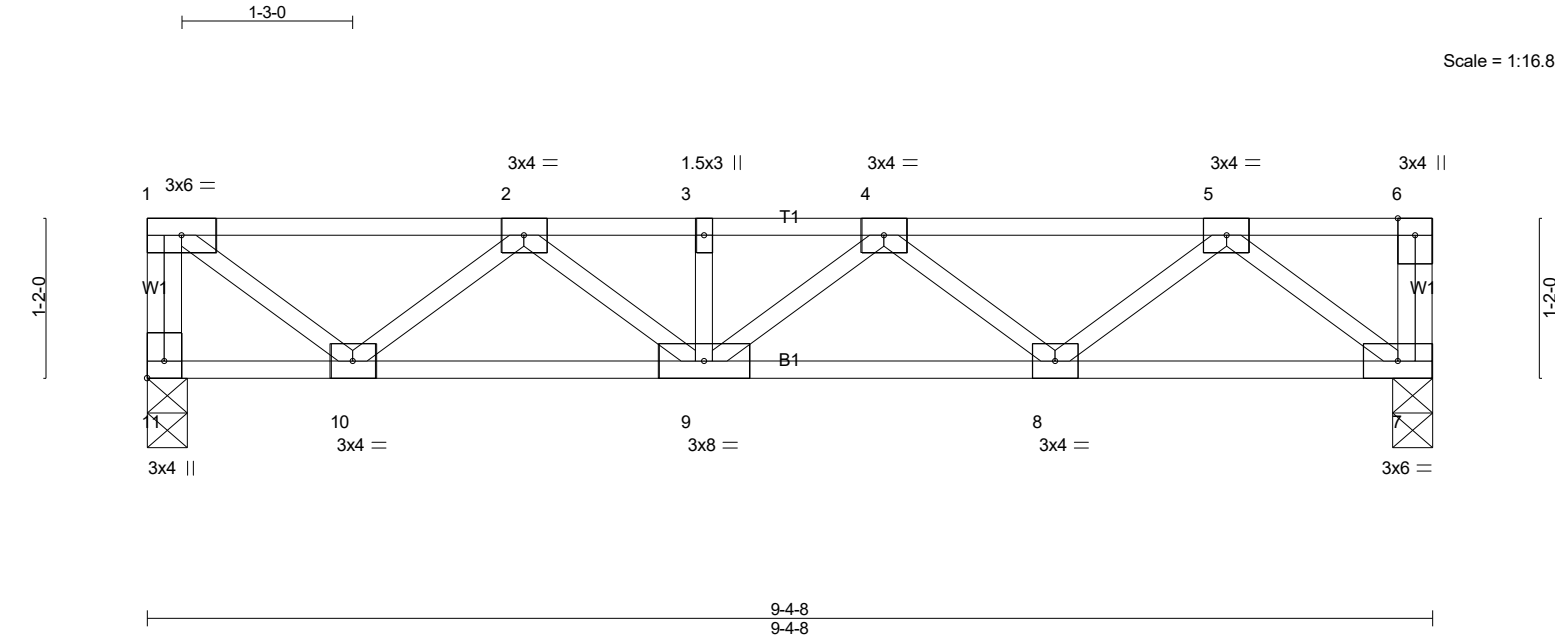


Plate Offsets (X,Y)-- [11:Edge,0-1-8]		9-4-8		9-4-8	
<b>LOADING</b> (psf)	<b>SPACING</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc)	<b>PLATES</b>
TCLL 40.0	Plate Grip DOL	1.00	TC 0.32	Vert(LL) -0.02 9 >999	MT20
TCDL 10.0	Lumber DOL	1.00	BC 0.24	Vert(CT) -0.03 8-9 >999	GRIP 244/190
BCLL 0.0	Rep Stress Incr	NO	WB 0.31	Horz(CT) 0.01 7 n/a	
BCDL 5.0	Code IRC2021/TPI2014		Matrix-SH		
				Weight: 51 lb FT = 20%F, 11%E	

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 10-11.
WEBS 2x4 SP No.3(flat)	
<b>REACTIONS.</b> (lb/size) 11=502/0-3-8 (min. 0-1-8), 7=502/0-3-8 (min. 0-1-8)	
Max Uplift 11=-56(LC 6), 7=-56(LC 7)	
Max Grav 11=528(LC 3), 7=528(LC 2)	

<b>FORCES.</b> (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-11=-523/60, 1-2=-562/78, 2-3=-1072/0, 3-4=-1072/0, 4-5=-870/6
BOT CHORD 9-10=-14/954, 8-9=0/1109, 7-8=-75/627
WEBS 1-10=-121/723, 2-10=-648/149, 2-9=-206/315, 4-9=-253/254, 4-8=-434/199, 5-8=-153/479, 5-7=-804/118

- NOTES-** (5)
- Unbalanced floor live loads have been considered for this design.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 56 lb uplift at joint 11 and 56 lb uplift at joint 7.
  - This truss has been designed for a total drag load of 150 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 9-4-8 for 150.0 plf.
  - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

**LOAD CASE(S)** Standard



3/11/2025

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Run: 85.630 s 3 Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Mar 11 12:30:58 2025 Page 1  
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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.