

Mark Morris, P.E.

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

AST #: 56554

JOB: 25-0889-F02

JOB NAME: LOT 0.0016 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 2018 as well as IRC 2021.

28 Truss Design(s)

Trusses:

F201, F202, F203, F204, F205, F206, F207, F208, F209, F210, F211, F212, F213, F214, F215, F216, F217, F218, F219, F220, F221, F222, F223, F224, F225, F226, F227, F228



2/4/2025

Mark Morris

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

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0016 CAMPBELL RIDGE 253 ALDEN WAY ANGIER, NC
25-0889-F02	F201	Floor Supported Gable	1	1	Job Reference (optional) # 56554

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Feb 5 09:12:45 2025 Page 1
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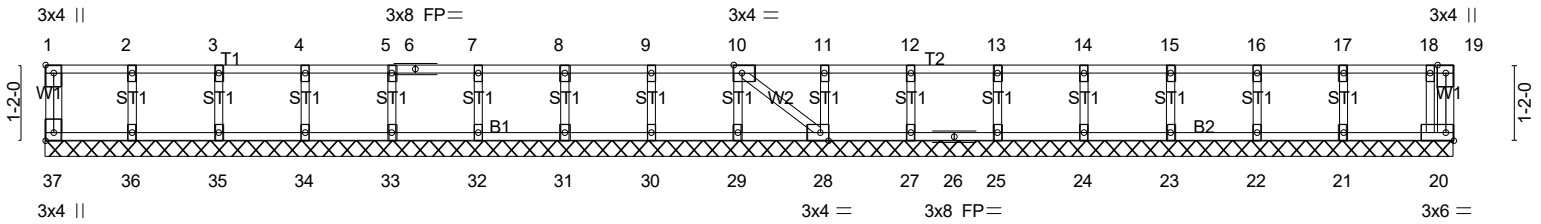


Plate Offsets (X,Y)--	[1:Edge,0-1-8], [10:0-1-8,Edge], [28:0-1-8,Edge], [37:Edge,0-1-8]
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LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.06	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.01	Vert(LL) n/a - n/a 999		
BCLL 0.0	Lumber DOL 1.00	WB 0.03	Vert(CT) n/a - n/a 999		
BCDL 5.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.00 20 n/a n/a		
	Code IRC2021/TPI2014			Weight: 94 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 21-8-6.
 (lb) - Max Grav All reactions 250 lb or less at joint(s) 37, 20, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27, 25, 24, 23, 22, 21

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

- NOTES-** (6-7)
- All plates are 1.5x3 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 1-4-0 oc.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. 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.

LOAD CASE(S) Standard



2/4/2025

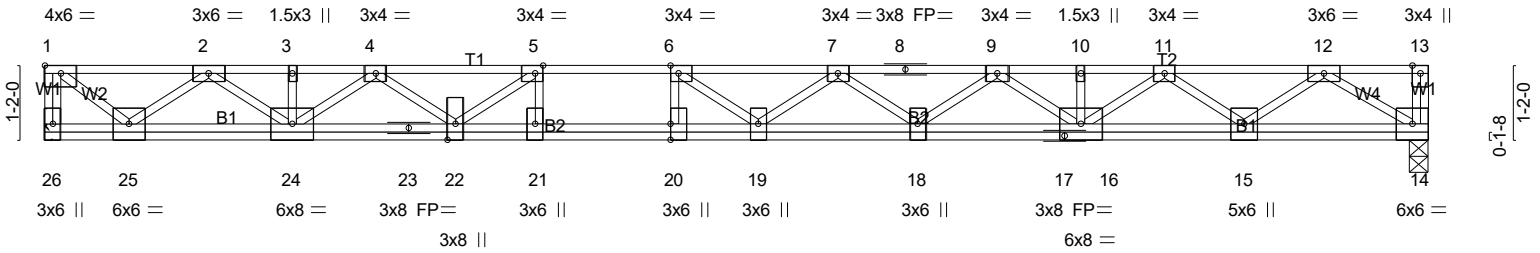
Warning!—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – 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 25-0889-F02	Truss F202	Truss Type FLOOR	Qty 9	Ply 1	LOT 0.0016 CAMPBELL RIDGE 253 ALDEN WAY ANGIER, NC Job Reference (optional) # 56554
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Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Feb 5 09:12:45 2025 Page 1
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Scale = 1:36.2



7-9-13	8-9-13	9-9-13	21-8-8
7-9-13	1-0-0	1-0-0	11-10-11
Plate Offsets (X,Y)-- [1:Edge,0-1-8], [5:0-1-8,Edge], [6:0-1-8,Edge], [20:0-3-0,Edge]			

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 0.76	Vert(LL)	-0.44	19-20	>586	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.77	Vert(CT)	-0.60	19-20	>426		
BCLL 0.0	Rep Stress Incr	YES	WB 0.64	Horz(CT)	0.05	14	n/a		
BCDL 5.0	Code IRC2021/TPI2014		Matrix-SH						
								Weight: 139 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 4-6-12 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) 26=944/Mechanical, 14=944/0-3-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-26=-929/0, 1-2=-1033/0, 2-3=-2954/0, 3-4=-2954/0, 4-5=-4194/0, 5-6=-4918/0,
6-7=-5086/0, 7-8=-4728/0, 8-9=-4728/0, 9-10=-3812/0, 10-11=-3812/0, 11-12=-2269/0
BOT CHORD 24-25=0/2106, 23-24=0/3700, 22-23=0/3700, 21-22=0/4918, 20-21=0/4918, 19-20=0/4918,
18-19=0/5053, 17-18=0/4392, 16-17=0/4392, 15-16=0/3142, 14-15=0/1371
WEBS 5-21=-44/477, 6-20=-437/81, 5-22=-1058/0, 4-22=0/646, 4-24=-930/0, 2-24=0/1058,
2-25=-1363/0, 1-25=0/1336, 6-19=-308/497, 7-19=-90/255, 7-18=-412/0, 9-18=0/427,
9-16=-724/0, 11-16=0/836, 11-15=-1109/0, 12-15=0/1141, 12-14=-1632/0

- NOTES-** (4-5)
- Unbalanced floor live loads have been considered for this design.
 - Refer to girder(s) for truss to truss connections.
 - Required 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. 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.

LOAD CASE(S) Standard

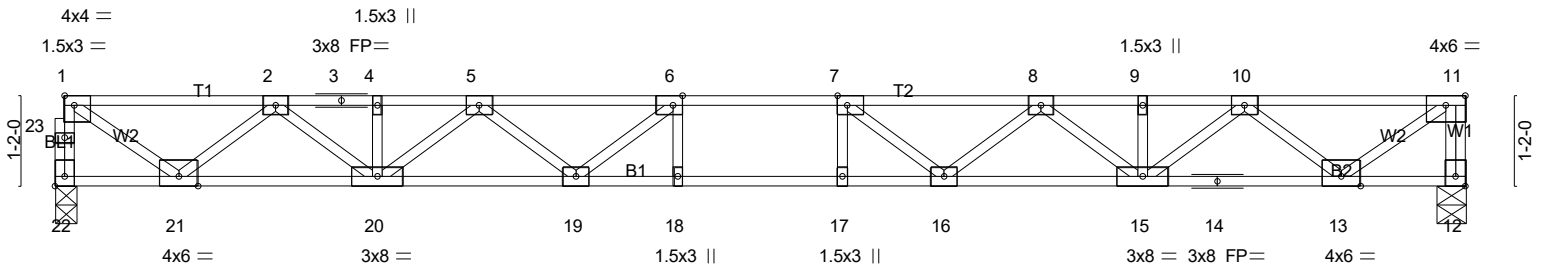
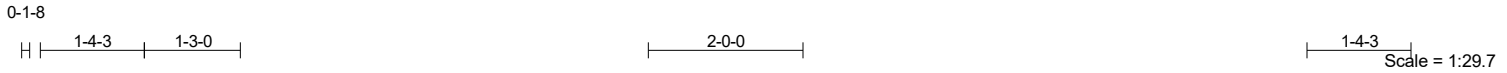


2/4/2025

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Job 25-0889-F02	Truss F203	Truss Type Floor	Qty 1	Ply 1	LOT 0.0016 CAMPBELL RIDGE 253 ALDEN WAY ANGIER, NC Job Reference (optional) # 56554
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8-1-3	9-1-3	10-1-3	18-2-6
8-1-3	1-0-0	1-0-0	8-1-3
Plate Offsets (X,Y)-- [1:Edge,0-1-8], [6:0-1-8,Edge], [7:0-1-8,Edge], [12:Edge,0-1-8], [22:Edge,0-1-8]			

LOADING (psf)	SPACING-	1-7-3	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.40	Vert(LL)	-0.24 17-18	>882	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.81	Vert(CT)	-0.34 17-18	>640	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.57	Horz(CT)	0.06 12	n/a	n/a		
BCDL 5.0	Code IRC2021/TPI2014		Matrix-SH						
								Weight: 92 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) 22=784/0-3-6 (min. 0-1-8), 12=789/0-4-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 22-23=-779/0, 1-23=-778/0, 11-12=-783/0, 1-2=-982/0, 2-3=-2358/0, 3-4=-2358/0, 4-5=-2358/0, 5-6=-3121/0, 6-7=-3372/0, 7-8=-3121/0, 8-9=-2357/0, 9-10=-2357/0, 10-11=-980/0
BOT CHORD 20-21=0/1790, 19-20=0/2864, 18-19=0/3372, 17-18=0/3372, 16-17=0/3372, 15-16=0/2864, 14-15=0/1792, 13-14=0/1792
WEBS 6-19=-531/9, 5-19=0/423, 5-20=-646/0, 2-20=0/725, 2-21=-1052/0, 1-21=0/1162, 7-16=-531/10, 8-16=0/423, 8-15=-647/0, 10-15=0/721, 10-13=-1057/0, 11-13=0/1200

- NOTES-** (5-6)
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x4 MT20 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.
 - 5) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
 - 6) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S) Standard

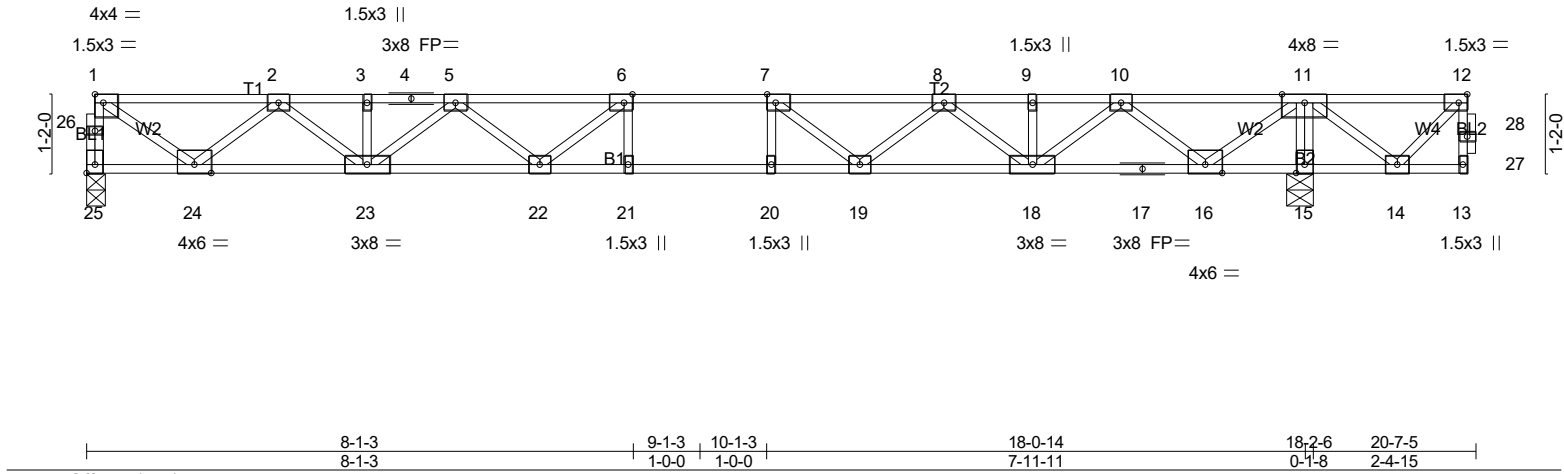


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Job 25-0889-F02	Truss F204	Truss Type Floor	Qty 5	Ply 1	LOT 0.0016 CAMPBELL RIDGE 253 ALDEN WAY ANGIER, NC Job Reference (optional) # 56554
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LOADING (psf)	SPACING- 1-7-3	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.41	Vert(LL) -0.24 20-21 >882 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.83	Vert(CT) -0.33 20-21 >646 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.55	Horz(CT) 0.06 15 n/a n/a		
BCDL 5.0	Code IRC2021/TPI2014	Matrix-SH			Weight: 106 lb FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 15-16,14-15.

REACTIONS. (lb/size) 25=771/0-3-6 (min. 0-1-8), 15=1009/0-4-8 (min. 0-1-8)
Max Grav 25=781(LC 3), 15=1009(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 25-26=-776/0, 1-26=-775/0, 1-2=-976/0, 2-3=-2343/0, 3-4=-2343/0, 4-5=-2343/0,
5-6=-3098/0, 6-7=-3341/0, 7-8=-3081/0, 8-9=-2312/0, 9-10=-2312/0, 10-11=-930/0
BOT CHORD 23-24=0/1780, 22-23=0/2846, 21-22=0/3341, 20-21=0/3341, 19-20=0/3341, 18-19=0/2818,
17-18=0/1726, 16-17=0/1726
WEBS 11-15=-982/0, 6-22=-521/48, 5-22=0/416, 5-23=-641/0, 2-23=0/719, 2-24=-1046/0,
1-24=0/1156, 7-19=-570/0, 8-19=0/447, 8-18=-657/0, 10-18=0/776, 10-16=-1036/0,
11-16=0/1163

- NOTES-** (5-6)
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x4 MT20 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.
 - 5) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
 - 6) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S) Standard

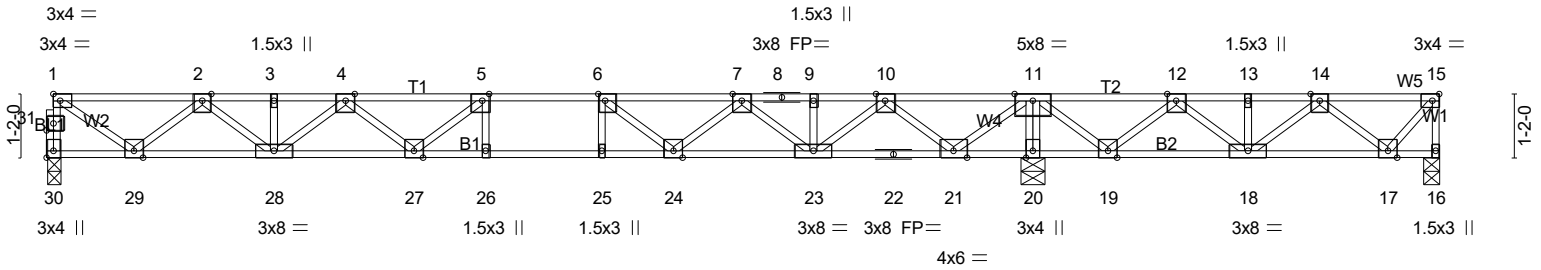


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Job 25-0889-F02	Truss F205	Truss Type Floor	Qty 2	Ply 1	LOT 0.0016 CAMPBELL RIDGE 253 ALDEN WAY ANGIER, NC Job Reference (optional) # 56554
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8-1-3	9-1-3, 10-1-3	18-0-10	25-5-14
8-1-3	1-0-0, 1-0-0	7-11-7	7-5-4
Plate Offsets (X,Y)-- [5:0-1-8,Edge], [6:0-1-8,Edge], [15:0-1-8,Edge], [30:Edge,0-1-8], [31:0-1-8,0-1-8]			

LOADING (psf)	SPACING-	1-7-3	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.48	Vert(LL)	-0.21	26-27	>999	480	MT20
TCDL 10.0	Lumber DOL	1.00	BC 0.90	Vert(CT)	-0.28	26-27	>759	360	244/190
BCLL 0.0	Rep Stress Incr	YES	WB 0.64	Horz(CT)	0.03	20	n/a	n/a	
BCDL 5.0	Code IRC2021/TPI2014		Matrix-SH						
								Weight: 130 lb	FT = 20%F, 11%E

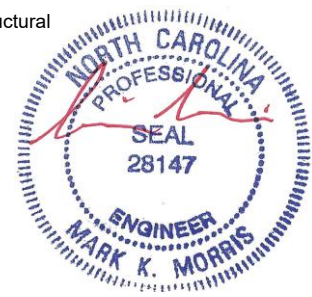
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (lb/size) 30=661/0-3-6 (min. 0-1-8), 16=26/0-3-8 (min. 0-1-8), 20=1534/0-5-8 (min. 0-1-8)
Max Uplift 16=-196(LC 3)
Max Grav 30=666(LC 3), 16=229(LC 4), 20=1534(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 30-31=-663/0, 1-31=-661/0, 1-2=-817/0, 2-3=-1896/0, 3-4=-1896/0, 4-5=-2375/0, 5-6=-2363/0, 6-7=-1847/0, 7-8=-803/0, 8-9=-803/0, 9-10=-803/0, 10-11=0/953, 11-12=0/1531, 12-13=-258/771, 13-14=-258/771
BOT CHORD 28-29=0/1483, 27-28=0/2283, 26-27=0/2363, 25-26=0/2363, 24-25=0/2363, 23-24=0/1424, 20-21=-2031/0, 19-20=-2034/0, 18-19=-1153/125, 17-18=-445/305
WEBS 11-20=-1499/0, 4-28=-495/0, 2-28=0/527, 2-29=-866/0, 1-29=0/966, 6-24=-726/0, 7-24=0/561, 7-23=-798/0, 10-23=0/963, 10-21=-1213/0, 11-21=0/1337, 11-19=0/811, 12-19=-759/0, 12-18=0/508, 14-18=-415/0, 14-17=-223/351, 15-17=-273/207

- NOTES-** (6-7)
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 4x4 MT20 unless otherwise indicated.
 - 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 196 lb uplift at joint 16.
 - 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.
 - 6) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
 - 7) 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.

LOAD CASE(S) Standard



2/4/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0016 CAMPBELL RIDGE 253 ALDEN WAY ANGIER, NC
25-0889-F02	F206	Floor	5	1	Job Reference (optional) # 56554

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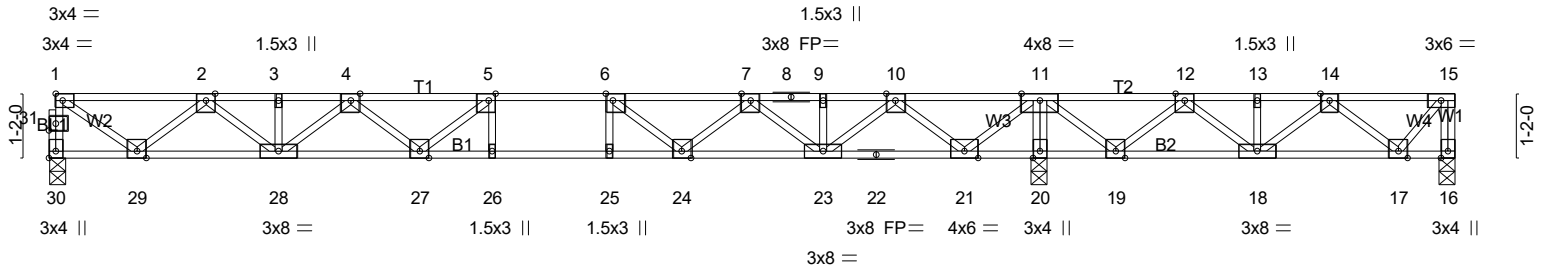


Plate Offsets (X,Y)--	[5:0-1-8,Edge], [6:0-1-8,Edge], [30:Edge,0-1-8], [31:0-1-8,0-1-8]
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LOADING (psf)	SPACING-	1-7-3	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.48	Vert(LL)	-0.21	26-27	>999	480	MT20
TCDL 10.0	Lumber DOL	1.00	BC 0.91	Vert(CT)	-0.28	26-27	>760	360	244/190
BCLL 0.0	Rep Stress Incr	YES	WB 0.61	Horz(CT)	0.03	20	n/a	n/a	
BCDL 5.0	Code IRC2021/TPI2014		Matrix-SH						
									Weight: 131 lb FT = 20%F, 11%E

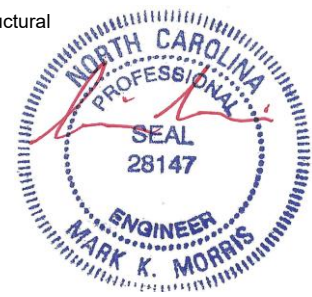
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (lb/size) 30=658/0-3-6 (min. 0-1-8), 16=32/0-3-8 (min. 0-1-8), 20=1524/0-3-8 (min. 0-1-8)
 Max Uplift 16=-190(LC 3)
 Max Grav 30=664(LC 3), 16=231(LC 4), 20=1524(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 30-31=-660/0, 1-31=-659/0, 1-2=-814/0, 2-3=-1887/0, 3-4=-1887/0, 4-5=-2361/0, 5-6=-2342/0, 6-7=-1822/0, 7-8=-772/0, 8-9=-772/0, 9-10=-772/0, 10-11=0/989, 11-12=0/1506, 12-13=-264/758, 13-14=-264/758
 BOT CHORD 28-29=0/1477, 27-28=0/2272, 26-27=0/2342, 25-26=0/2342, 24-25=0/2342, 23-24=0/1395, 20-21=-2003/0, 19-20=-2003/0, 18-19=-1133/133, 17-18=-439/311
 WEBS 11-20=-1490/0, 4-28=-492/0, 2-28=0/523, 2-29=-863/0, 1-29=0/962, 6-24=-730/0, 7-24=0/566, 7-23=-800/0, 10-23=0/971, 10-21=-1211/0, 11-21=0/1286, 11-19=0/805, 12-19=-753/0, 12-18=0/500, 14-18=-408/0, 14-17=-226/343, 15-17=-269/211

- NOTES-** (6-7)
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 4x4 MT20 unless otherwise indicated.
 - 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 190 lb uplift at joint 16.
 - 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.
 - 6) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
 - 7) 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.

LOAD CASE(S) Standard

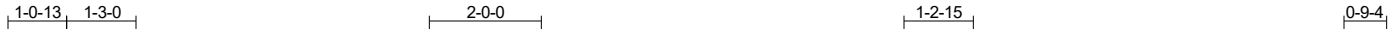


2/4/2025

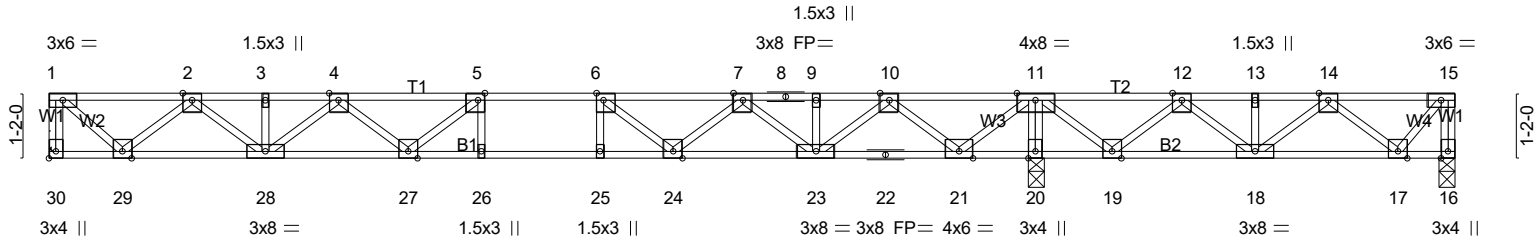
Warning!—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 *National Design Standard for Metal Plate Connected Wood Truss Construction* and BCSI 1-03 Guide to *Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses* from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	LOT 0.0016 CAMPBELL RIDGE 253 ALDEN WAY ANGIER, NC
25-0889-F02	F207	Floor	1	1	Job Reference (optional) # 56554

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Scale = 1:41.3



7-9-13	8-9-13, 9-9-13	17-8-4	25-2-8
7-9-13	1-0-0, 1-0-0	7-10-7	7-6-4
Plate Offsets (X,Y)-- [5:0-1-8,Edge], [6:0-1-8,Edge], [30:Edge,0-1-8]			

LOADING (psf)	SPACING-	1-7-3	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.46	Vert(LL)	-0.19 26-27	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.86	Vert(CT)	-0.26 26-27	>813	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.60	Horz(CT)	0.03 20	n/a	n/a		
BCDL 5.0	Code IRC2021/TPI2014		Matrix-SH						
								Weight: 131 lb	FT = 20%F, 11%E

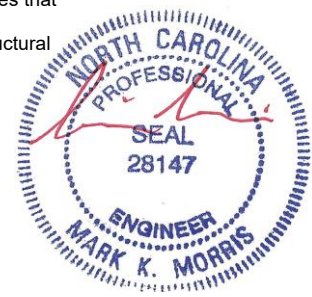
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (lb/size) 30=652/Mechanical, 16=40/0-3-8 (min. 0-1-8), 20=1503/0-3-8 (min. 0-1-8)
 Max Uplift 16=182(LC 3)
 Max Grav 30=658(LC 3), 16=233(LC 4), 20=1503(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-30=-655/0, 1-2=-658/0, 2-3=-1763/0, 3-4=-1763/0, 4-5=-2268/0, 5-6=-2281/0, 6-7=-1791/0, 7-8=-775/0, 8-9=-775/0, 9-10=-775/0, 10-11=0/952, 11-12=0/1462, 12-13=-271/732, 13-14=-271/732
 BOT CHORD 28-29=0/1325, 27-28=0/2159, 26-27=0/2281, 25-26=0/2281, 24-25=0/2281, 23-24=0/1384, 20-21=-1949/0, 19-20=-1949/0, 18-19=-1097/142, 17-18=-423/315
 WEBS 11-20=-1469/0, 4-28=-506/0, 2-28=0/559, 2-29=-868/0, 1-29=0/873, 6-24=-694/0, 7-24=0/541, 7-23=-783/0, 10-23=0/948, 10-21=-1190/0, 11-21=0/1264, 11-19=0/792, 12-19=-741/0, 12-18=0/488, 14-18=-395/0, 14-17=-229/331, 15-17=-259/214

- NOTES-** (7-8)
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 4x4 MT20 unless otherwise indicated.
 - 3) Refer to girder(s) for truss to truss connections.
 - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 182 lb uplift at joint 16.
 - 5) 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.
 - 6) CAUTION, Do not erect truss backwards.
 - 7) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
 - 8) 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.

LOAD CASE(S) Standard



2/4/2025

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Job 25-0889-F02	Truss F208	Truss Type Floor	Qty 6	Ply 1	LOT 0.0016 CAMPBELL RIDGE 253 ALDEN WAY ANGIER, NC Job Reference (optional) # 56554
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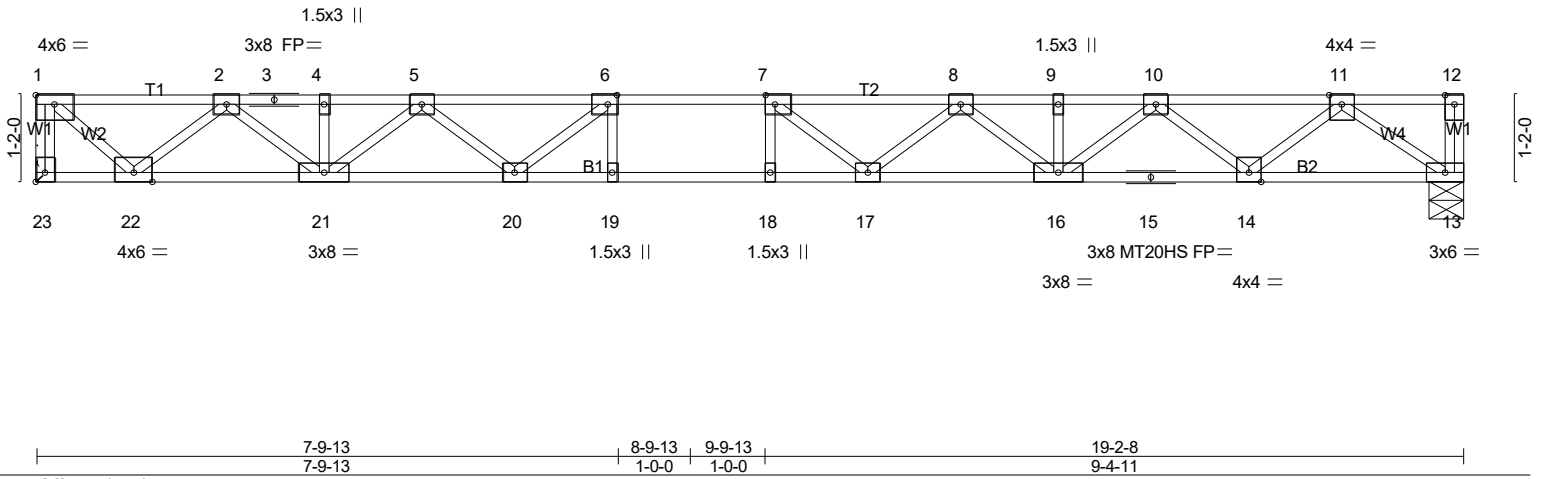


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [6:0-1-8,Edge], [7:0-1-8,Edge], [23:Edge,0-1-8]	
LOADING (psf)	SPACING- 1-7-3
TCLL 40.0	Plate Grip DOL 1.00
TCDL 10.0	Lumber DOL 1.00
BCLL 0.0	Rep Stress Incr YES
BCDL 5.0	Code IRC2021/TPI2014
CSL	TC 0.51
	BC 0.67
	WB 0.54
	Matrix-SH
DEFL. in (loc) l/defl L/d	
Vert(LL) -0.31 18 >730 480	
Vert(CT) -0.43 17-18 >531 360	
Horz(CT) 0.06 13 n/a n/a	
PLATES	GRIP
MT20	244/190
MT20HS	187/143
Weight: 98 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.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (lb/size) 23=834/Mechanical, 13=834/0-5-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-23=-828/0, 1-2=-856/0, 2-3=-2403/0, 3-4=-2403/0, 4-5=-2403/0, 5-6=-3331/0,
6-7=-3738/0, 7-8=-3643/0, 8-9=-3048/0, 9-10=-3048/0, 10-11=-1861/0
BOT CHORD 21-22=0/1735, 20-21=0/2978, 19-20=0/3738, 18-19=0/3738, 17-18=0/3738, 16-17=0/3480,
15-16=0/2552, 14-15=0/2552, 13-14=0/1140
WEBS 6-20=-694/0, 5-20=0/520, 5-21=-734/0, 2-21=0/852, 2-22=-1145/0, 1-22=0/1136,
7-17=-424/172, 8-17=0/352, 8-16=-552/0, 10-16=0/633, 10-14=-900/0, 11-14=0/938,
11-13=-1383/0

- NOTES-** (6-7)
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) All plates are 3x4 MT20 unless otherwise indicated.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) 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.
 - 6) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
 - 7) 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.

LOAD CASE(S) Standard



2/4/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0016 CAMPBELL RIDGE 253 ALDEN WAY ANGIER, NC
25-0889-F02	F209	Floor Supported Gable	1	1	Job Reference (optional) # 56554

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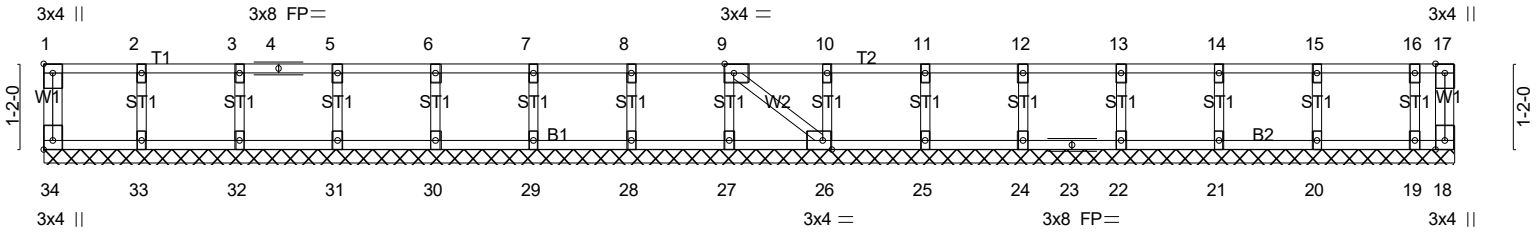


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [9:0-1-8,Edge], [26:0-1-8,Edge], [34:Edge,0-1-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 40.0	Plate Grip DOL	1.00	TC 0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.01	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	-0.00	26	n/a	n/a		
BCDL 5.0	Code IRC2021/TPI2014		Matrix-SH							
									Weight: 84 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 10-0-0 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 19-2-6.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) 18
Max Grav All reactions 250 lb or less at joint(s) 34, 18, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 22, 21, 20, 19

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

- NOTES-** (7-8)
- All plates are 1.5x3 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 1-4-0 oc.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. 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.

LOAD CASE(S) Standard



2/4/2025

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Job 25-0889-F02	Truss F210	Truss Type Floor Supported Gable	Qty 1	Ply 1	LOT 0.0016 CAMPBELL RIDGE 253 ALDEN WAY ANGIER, NC Job Reference (optional) # 56554
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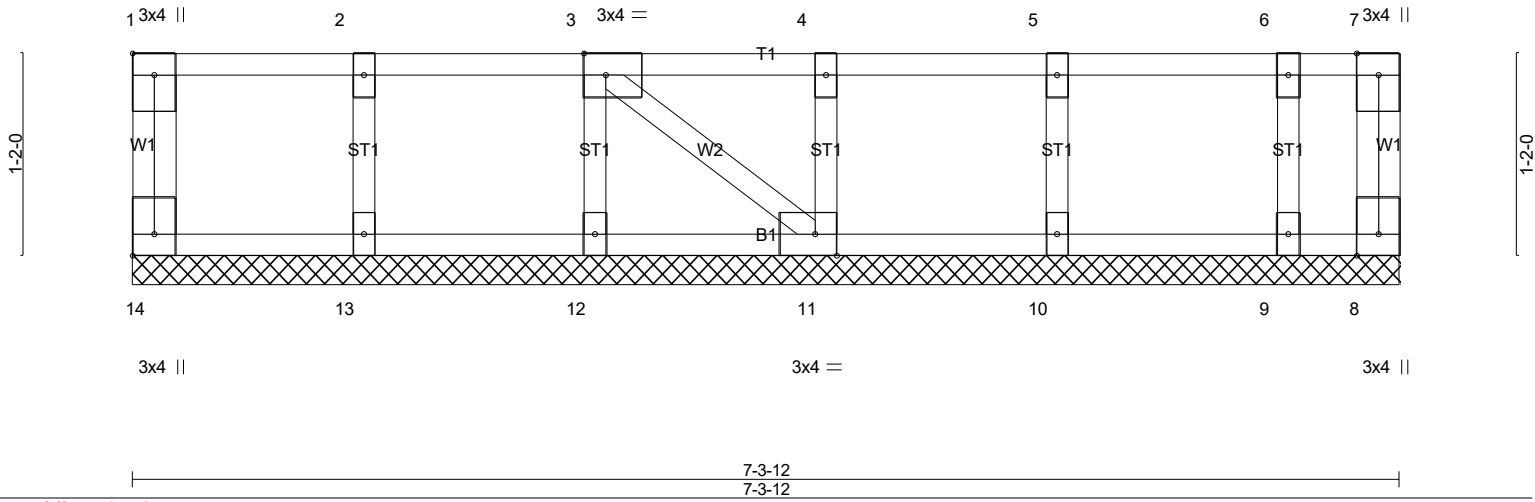


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [3:0-1-8,Edge], [11:0-1-8,Edge], [14:Edge,0-1-8]	
LOADING (psf)	SPACING- 2-0-0
TCLL 40.0	Plate Grip DOL 1.00
TCDL 10.0	Lumber DOL 1.00
BCLL 0.0	Rep Stress Incr YES
BCDL 5.0	Code IRC2021/TPI2014
CSL	TC 0.06
	BC 0.01
	WB 0.03
	Matrix-P
DEFL. in (loc) l/defl L/d	
Vert(LL) n/a - n/a 999	
Vert(CT) n/a - n/a 999	
Horz(CT) 0.00 11 n/a n/a	
PLATES	GRIP
MT20	244/190
Weight: 36 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 7-3-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 7-3-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 14, 8, 13, 12, 11, 10, 9

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

NOTES- (6-7)
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) 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.
6) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
7) 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.

LOAD CASE(S) Standard



2/4/2025

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Job 25-0889-F02	Truss F211	Truss Type Floor	Qty 7	Ply 1	LOT 0.0016 CAMPBELL RIDGE 253 ALDEN WAY ANGIER, NC Job Reference (optional) # 56554
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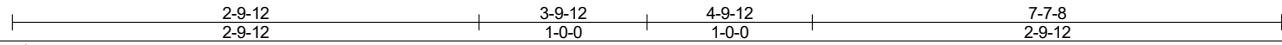
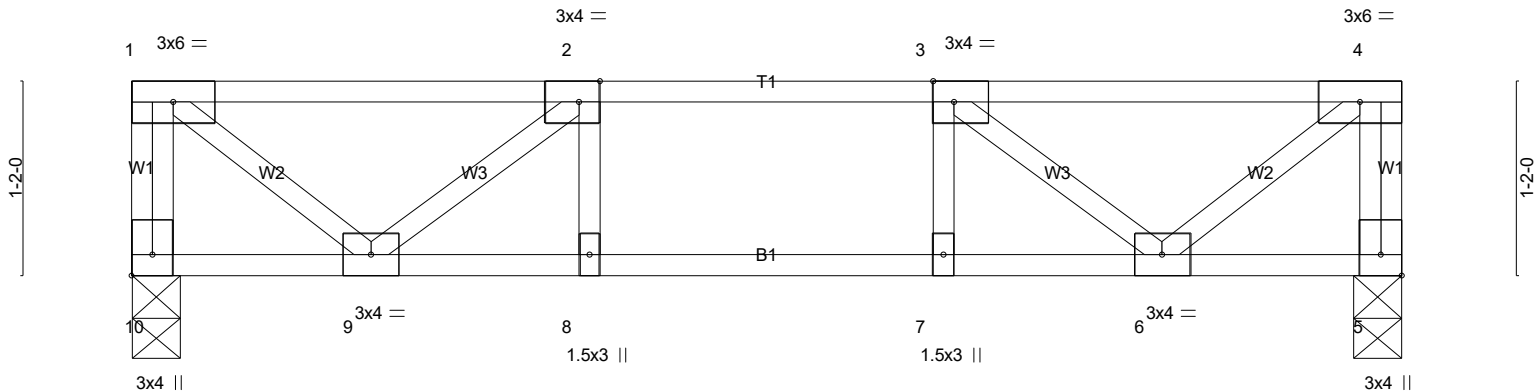


Plate Offsets (X,Y)-- [2:0-1-8,Edge], [3:0-1-8,Edge], [5:Edge,0-1-8], [10:Edge,0-1-8]

LOADING (psf)	SPACING- 1-7-3	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.26	Vert(LL) -0.03 8 >999 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.24	Vert(CT) -0.03 8 >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-SH			
				Weight: 40 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

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

REACTIONS. (lb/size) 10=324/0-3-8 (min. 0-1-8), 5=324/0-3-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-319/0, 4-5=-319/0, 1-2=-292/0, 2-3=-570/0, 3-4=-292/0
BOT CHORD 8-9=0/570, 7-8=0/570, 6-7=0/570
WEBS 2-9=-355/0, 1-9=0/373, 3-6=-355/0, 4-6=0/373

- NOTES-** (3-4)
- Unbalanced floor live loads have been considered for this design.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. 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.

LOAD CASE(S) Standard

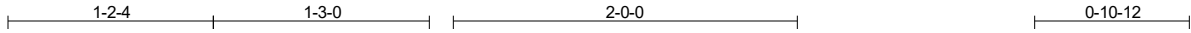


2/4/2025

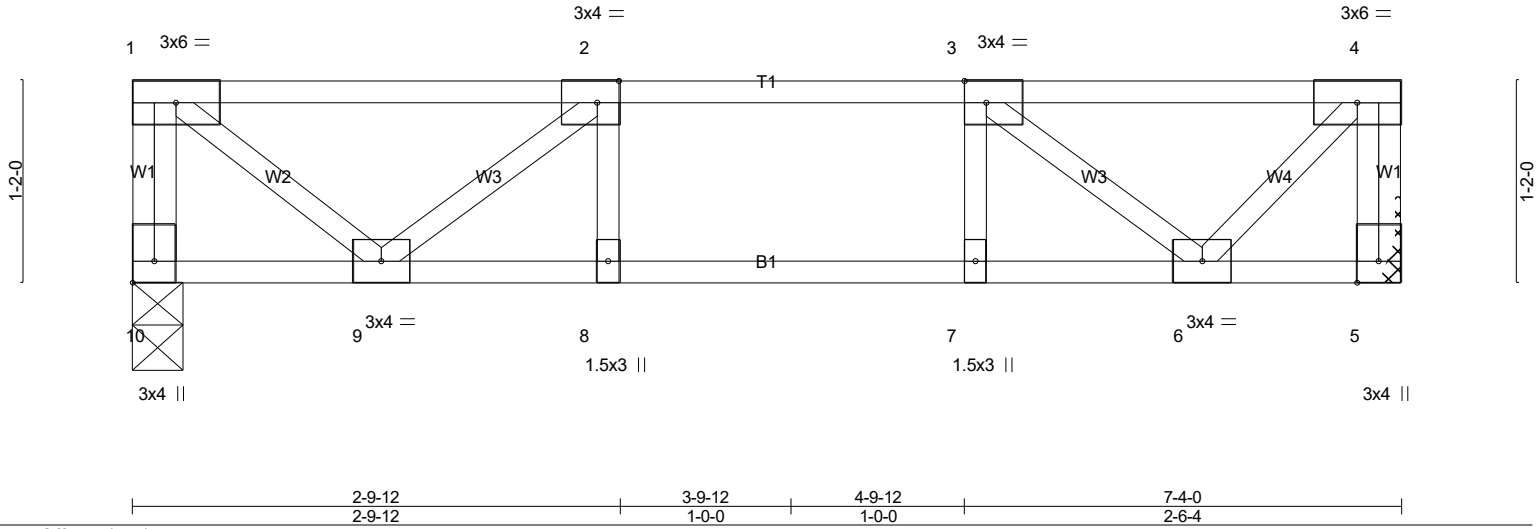
Warning!—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – 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 25-0889-F02	Truss F212	Truss Type Floor	Qty 2	Ply 1	LOT 0.0016 CAMPBELL RIDGE 253 ALDEN WAY ANGIER, NC Job Reference (optional) # 56554
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Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Feb 5 09:12:51 2025 Page 1
ID:BSBRQeSNfsyJEFuISDlvBEyBPr9-So?8E0sVTQqZzHGluPBz4I43Qp8R6aotBTORXMzoFCQ



Scale = 1:13.3



LOADING (psf)	SPACING-	1-7-3	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 40.0	Plate Grip DOL	1.00	TC 0.27	Vert(LL)	-0.03	8	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.26	Vert(CT)	-0.03	8	>999	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.17	Horz(CT)	0.00	5	n/a	n/a		
BCDL 5.0	Code IRC2021/TPI2014		Matrix-SH							
									Weight: 39 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

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

REACTIONS. (lb/size) 10=311/0-3-8 (min. 0-1-8), 5=311/Mechanical

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-309/0, 4-5=-305/0, 1-2=-276/0, 2-3=-522/0
BOT CHORD 8-9=0/522, 7-8=0/522, 6-7=0/522
WEBS 2-9=-314/0, 1-9=0/352, 3-6=-378/0, 4-6=0/322

- NOTES-** (4-5)
- 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) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. 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.

LOAD CASE(S) Standard

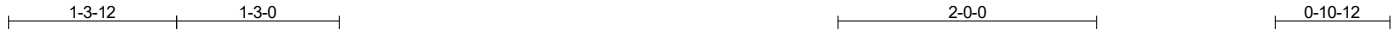


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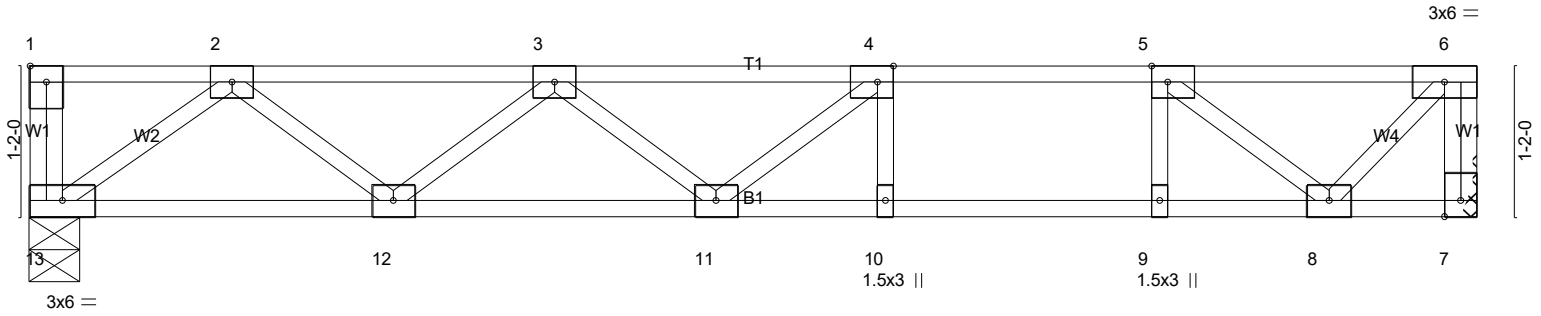
Warning!—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 *National Design Standard for Metal Plate Connected Wood Truss Construction* and BCSI 1-03 *Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses* from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	LOT 0.0016 CAMPBELL RIDGE 253 ALDEN WAY ANGIER, NC
25-0889-F02	F213	Floor	1	1	
					# 56554

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Feb 5 09:12:51 2025 Page 1
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Scale = 1:17.8



	6-8-4	7-8-4	8-8-4	11-2-8
	6-8-4	1-0-0	1-0-0	2-6-4
Plate Offsets (X,Y)--	[1:Edge,0-1-8], [4:0-1-8,Edge], [5:0-1-8,Edge]			

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 0.49	Vert(LL)	-0.14 10-11	>924	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.81	Vert(CT)	-0.19 10-11	>693	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.27	Horz(CT)	0.01 7	n/a	n/a		
BCDL 5.0	Code IRC2021/TPI2014		Matrix-SH						
								Weight: 57 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) 7=482/Mechanical, 13=482/0-4-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 6-7=-447/0, 2-3=-918/0, 3-4=-1229/0, 4-5=-1068/0, 5-6=-395/0
 BOT CHORD 12-13=0/592, 11-12=0/1231, 10-11=0/1068, 9-10=0/1068, 8-9=0/1068
 WEBS 5-9=0/268, 4-11=-42/263, 3-12=-407/0, 2-12=0/425, 2-13=-731/0, 5-8=-860/0, 6-8=0/564

- NOTES-** (5-6)
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x4 MT20 unless otherwise indicated.
 - 3) Refer to girder(s) for truss to truss connections.
 - 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) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
 - 6) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S) Standard



2/4/2025

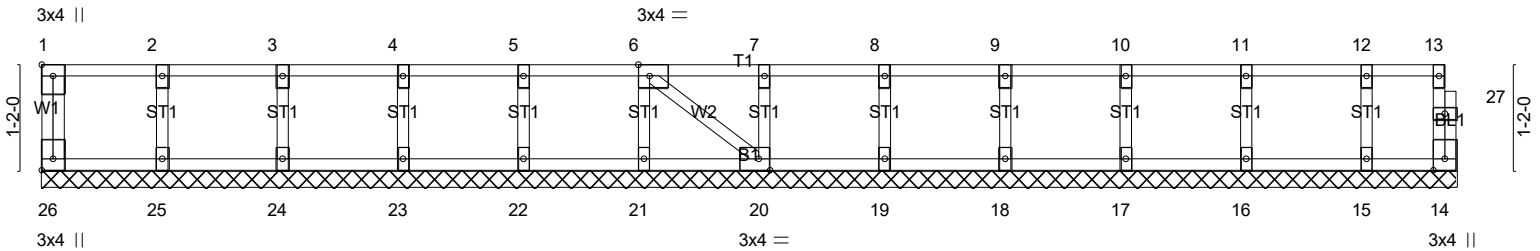
Warning!—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – 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 25-0889-F02	Truss F214	Truss Type Floor Supported Gable	Qty 1	Ply 1	LOT 0.0016 CAMPBELL RIDGE 253 ALDEN WAY ANGIER, NC Job Reference (optional) # 56554
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ID:BSBRQeSNfsyJEFuISDlvBEyBPr9-w?ZWRMt7EjyQbRrxS6jCdzdHQDXar390Q7Y_3pzoFCF

0-1-8

Scale = 1:25.5



15-7-14
15-7-14

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [6:0-1-8,Edge], [20:0-1-8,Edge], [26:Edge,0-1-8]

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 0.06	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.01	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	14	n/a		
BCDL 5.0	Code IRC2021/TPI2014		Matrix-SH						
								Weight: 69 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

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

REACTIONS. All bearings 15-7-14.
(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-** (7-8)
- All plates are 1.5x3 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 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.
 - Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. 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.

LOAD CASE(S) Standard



2/4/2025

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 25-0889-F02	Truss F215	Truss Type Floor	Qty 8	Ply 1	LOT 0.0016 CAMPBELL RIDGE 253 ALDEN WAY ANGIER, NC Job Reference (optional) # 56554
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Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Feb 5 09:12:52 2025 Page 1
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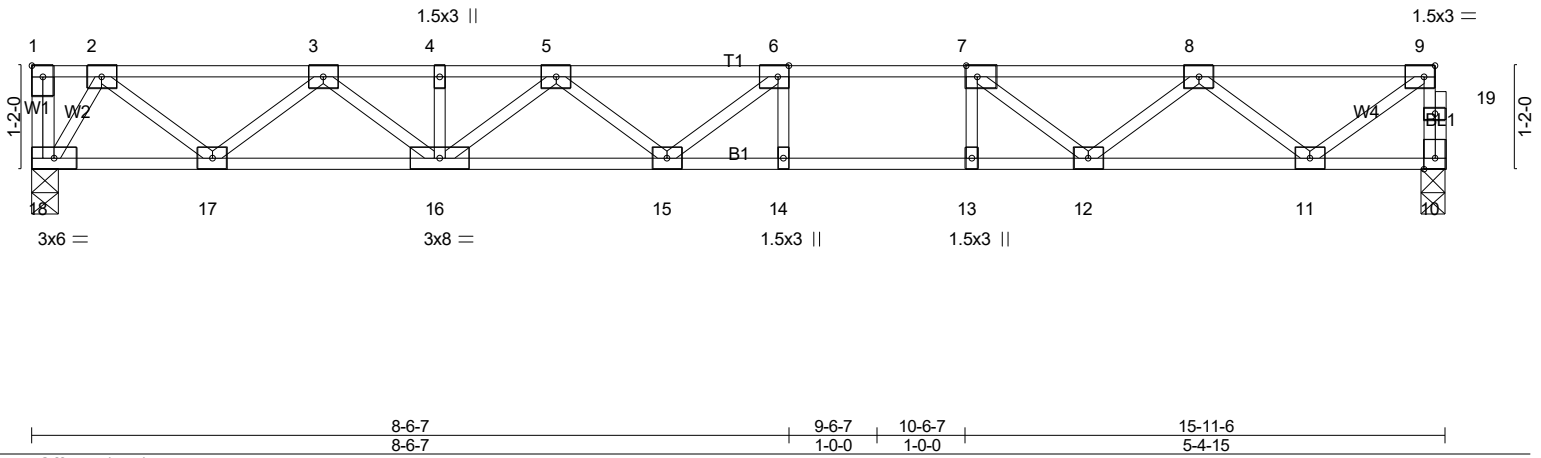


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [6:0-1-8,Edge], [7:0-1-8,Edge], [9:0-1-8,Edge]	
LOADING (psf)	SPACING- 1-4-0
TCLL 40.0	Plate Grip DOL 1.00
TCDL 10.0	Lumber DOL 1.00
BCLL 0.0	Rep Stress Incr YES
BCDL 5.0	Code IRC2021/TPI2014
CSL	Matrix-SH
TC 0.41	
BC 0.82	
WB 0.39	
DEFL. in (loc) l/defl L/d	
Vert(LL) -0.18 14-15 >999 480	
Vert(CT) -0.24 14-15 >774 360	
Horz(CT) 0.03 10 n/a n/a	
PLATES MT20	GRIP 244/190
Weight: 81 lb FT = 20%F, 11%E	

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

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

REACTIONS. (lb/size) 10=571/0-3-6 (min. 0-1-8), 18=576/0-3-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 10-19=-571/0, 9-19=-570/0, 2-3=-906/0, 3-4=-1754/0, 4-5=-1754/0, 5-6=-2111/0, 6-7=-2061/0, 7-8=-1605/0, 8-9=-677/0
BOT CHORD 17-18=0/376, 16-17=0/1413, 15-16=0/2057, 14-15=0/2061, 13-14=0/2061, 12-13=0/2061, 11-12=0/1243
WEBS 5-16=-386/0, 3-16=0/435, 3-17=-661/0, 2-17=0/689, 2-18=-702/0, 7-12=-631/0, 8-12=0/472, 8-11=-737/0, 9-11=0/812

- NOTES-** (5-6)
- Unbalanced floor live loads have been considered for this design.
 - All plates are 3x4 MT20 unless otherwise indicated.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - CAUTION, Do not erect truss backwards.
 - Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. 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.

LOAD CASE(S) Standard



2/4/2025

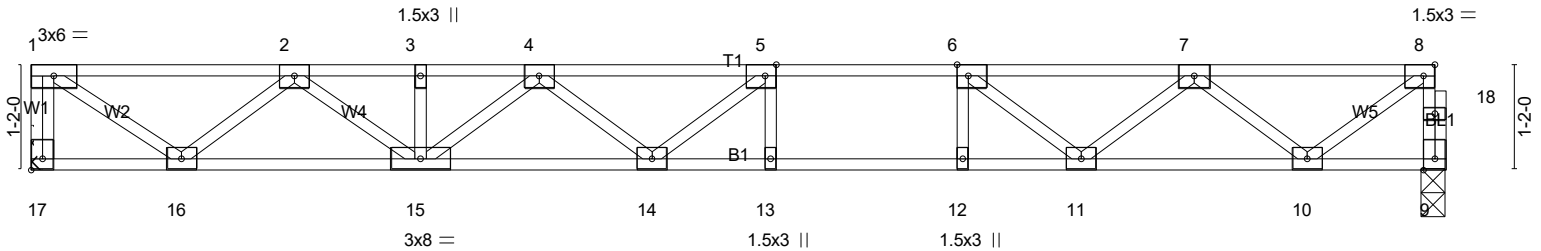
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Job 25-0889-F02	Truss F216	Truss Type Floor	Qty 1	Ply 1	LOT 0.0016 CAMPBELL RIDGE 253 ALDEN WAY ANGIER, NC Job Reference (optional) # 56554
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Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Feb 5 09:12:52 2025 Page 1
ID:BSBRQeSNfsyJEFuISDlvBEyBPr9-w?ZWRMt7EjyQbRrxS6jCdzbIDLZrzF0Q7Y_3pzoFCF



Scale = 1:25.5



1-7-15	8-2-15	9-2-15	10-2-15	15-7-14
1-7-15	6-7-0	1-0-0	1-0-0	5-4-15
Plate Offsets (X,Y)-- [5:0-1-8,Edge], [6:0-1-8,Edge], [8:0-1-8,Edge], [17:Edge,0-1-8]				

LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.39	Vert(LL)	-0.17	13-14	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.78	Vert(CT)	-0.23	13-14	>817		
BCLL 0.0	Rep Stress Incr	YES	WB 0.41	Horz(CT)	0.03	9	n/a		
BCDL 5.0	Code IRC2021/TPI2014		Matrix-SH						
								Weight: 79 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) 17=565/Mechanical, 9=561/0-3-6 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-17=-561/0, 9-18=-560/0, 8-18=-559/0, 1-2=-714/0, 2-3=-1637/0, 3-4=-1637/0, 4-5=-2023/0, 5-6=-1997/0, 6-7=-1565/0, 7-8=-662/0
BOT CHORD 15-16=0/1275, 14-15=0/1954, 13-14=0/1997, 12-13=0/1997, 11-12=0/1997, 10-11=0/1217
WEBS 4-15=-406/0, 2-15=0/451, 2-16=-730/0, 1-16=0/863, 6-11=-603/0, 7-11=0/453, 7-10=-722/0, 8-10=0/795

- NOTES-** (6-7)
- Unbalanced floor live loads have been considered for this design.
 - All plates are 3x4 MT20 unless otherwise indicated.
 - Refer to girder(s) for truss to truss connections.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - CAUTION. Do not erect truss backwards.
 - Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. 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.

LOAD CASE(S) Standard



2/4/2025

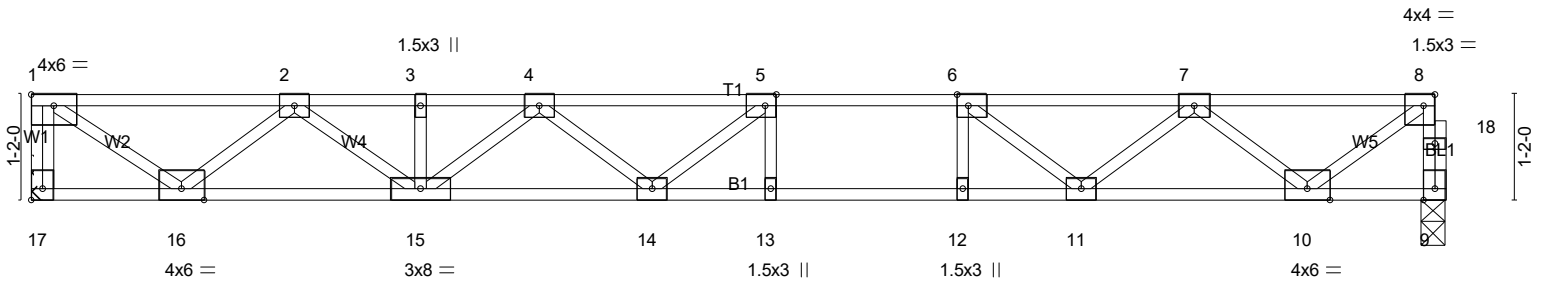
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Job 25-0889-F02	Truss F217	Truss Type Floor	Qty 2	Ply 1	LOT 0.0016 CAMPBELL RIDGE 253 ALDEN WAY ANGIER, NC Job Reference (optional) # 56554
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Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Feb 5 09:12:52 2025 Page 1
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Scale = 1:25.5



1-7-15	8-2-15	9-2-15	10-2-15	15-7-14
1-7-15	6-7-0	1-0-0	1-0-0	5-4-15
Plate Offsets (X,Y)-- [1:Edge,0-1-8], [5:0-1-8,Edge], [6:0-1-8,Edge], [8:0-1-8,Edge], [17:Edge,0-1-8]				

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 0.58	Vert(LL)	-0.23 13-14	>789	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.75	Vert(CT)	-0.32 13-14	>578	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.62	Horz(CT)	0.04 9	n/a	n/a		
BCDL 5.0	Code IRC2021/TPI2014		Matrix-SH						
								Weight: 79 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)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (lb/size) 17=847/Mechanical, 9=841/0-3-6 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-17=-841/0, 9-18=-840/0, 8-18=-839/0, 1-2=-1072/0, 2-3=-2455/0, 3-4=-2455/0, 4-5=-3037/0, 5-6=-2996/0, 6-7=-2345/0, 7-8=-994/0
BOT CHORD 15-16=0/1913, 14-15=0/2931, 13-14=0/2996, 12-13=0/2996, 11-12=0/2996, 10-11=0/1826
WEBS 5-13=-275/44, 6-12=-13/307, 5-14=-298/268, 4-14=0/296, 4-15=-608/0, 2-15=0/676, 2-16=-1096/0, 1-16=0/1295, 6-11=-910/0, 7-11=0/675, 7-10=-1083/0, 8-10=0/1193

- NOTES-** (6-7)
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x4 MT20 unless otherwise indicated.
 - 3) Refer to girder(s) for truss to truss connections.
 - 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.
 - 6) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
 - 7) 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.

LOAD CASE(S) Standard



2/4/2025

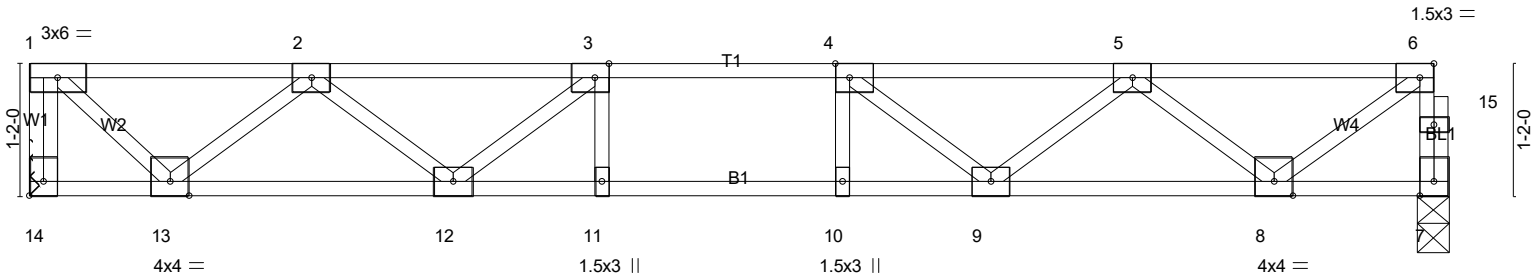
Warning!—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – 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 25-0889-F02	Truss F218	Truss Type Floor	Qty 2	Ply 1	LOT 0.0016 CAMPBELL RIDGE 253 ALDEN WAY ANGIER, NC Job Reference (optional) # 56554
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Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Feb 5 09:12:53 2025 Page 1
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Scale = 1:20.3



5-1-7	6-1-7	7-1-7	12-6-6
5-1-7	1-0-0	1-0-0	5-4-15

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [6:0-1-8,Edge], [14:Edge,0-1-8]

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	9-10	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.59	Vert(CT)	-0.13	9-10	>999	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.44	Horz(CT)	0.02	7	n/a	n/a		
BCDL 5.0	Code IRC2021/TPI2014		Matrix-SH							
									Weight: 63 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=675/Mechanical, 7=669/0-3-6 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-672/0, 7-15=-664/0, 6-15=-663/0, 1-2=-622/0, 2-3=-1624/0, 3-4=-1962/0, 4-5=-1699/0, 5-6=-765/0
BOT CHORD 12-13=0/1290, 11-12=0/1962, 10-11=0/1962, 9-10=0/1962, 8-9=0/1412
WEBS 3-12=-529/0, 2-12=0/441, 2-13=-869/0, 1-13=0/850, 4-9=-465/0, 5-9=0/399, 5-8=-843/0, 6-8=0/916

- NOTES-** (6-7)
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x4 MT20 unless otherwise indicated.
 - 3) Refer to girder(s) for truss to truss connections.
 - 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.
 - 6) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
 - 7) 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.

LOAD CASE(S) Standard

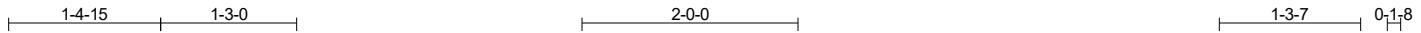


2/4/2025

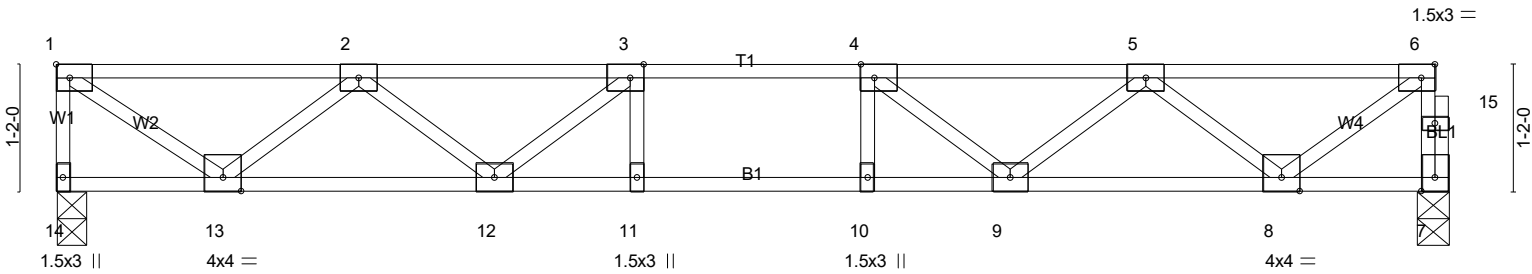
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Job 25-0889-F02	Truss F219	Truss Type Floor	Qty 3	Ply 1	LOT 0.0016 CAMPBELL RIDGE 253 ALDEN WAY ANGIER, NC Job Reference (optional) # 56554
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Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Feb 5 09:12:53 2025 Page 1
ID:BSBRQeSNfsyJEFuISDlVBEyBPr9-OB7ufhu_14HCaQ80qERAAANycknaPSAenHYcFzoFCO



Scale = 1:21.2



5-4-15	6-4-15	7-4-15	12-9-14
5-4-15	1-0-0	1-0-0	5-4-15

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [6:0-1-8,Edge]

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 0.33	Vert(LL)	-0.10 11-12	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.58	Vert(CT)	-0.13 11-12	>999	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.48	Horz(CT)	0.02 7	n/a	n/a		
BCDL 5.0	Code IRC2021/TPI2014		Matrix-SH						
								Weight: 63 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=695/0-3-8 (min. 0-1-8), 7=689/0-3-6 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-688/0, 7-15=-684/0, 6-15=-683/0, 1-2=-819/0, 2-3=-1790/0, 3-4=-2078/0, 4-5=-1772/0, 5-6=-791/0
BOT CHORD 12-13=0/1488, 11-12=0/2078, 10-11=0/2078, 9-10=0/2078, 8-9=0/1459
WEBS 3-12=-498/0, 2-12=0/421, 2-13=-872/0, 1-13=0/1003, 4-9=-512/0, 5-9=0/430, 5-8=-870/0, 6-8=0/947

- NOTES-** (5-6)
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x4 MT20 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.
 - 5) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
 - 6) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S) Standard



2/4/2025

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 25-0889-F02	Truss F220	Truss Type FLOOR GIRDER	Qty 1	Ply 1	LOT 0.0016 CAMPBELL RIDGE 253 ALDEN WAY ANGIER, NC	Job Reference (optional) # 56554
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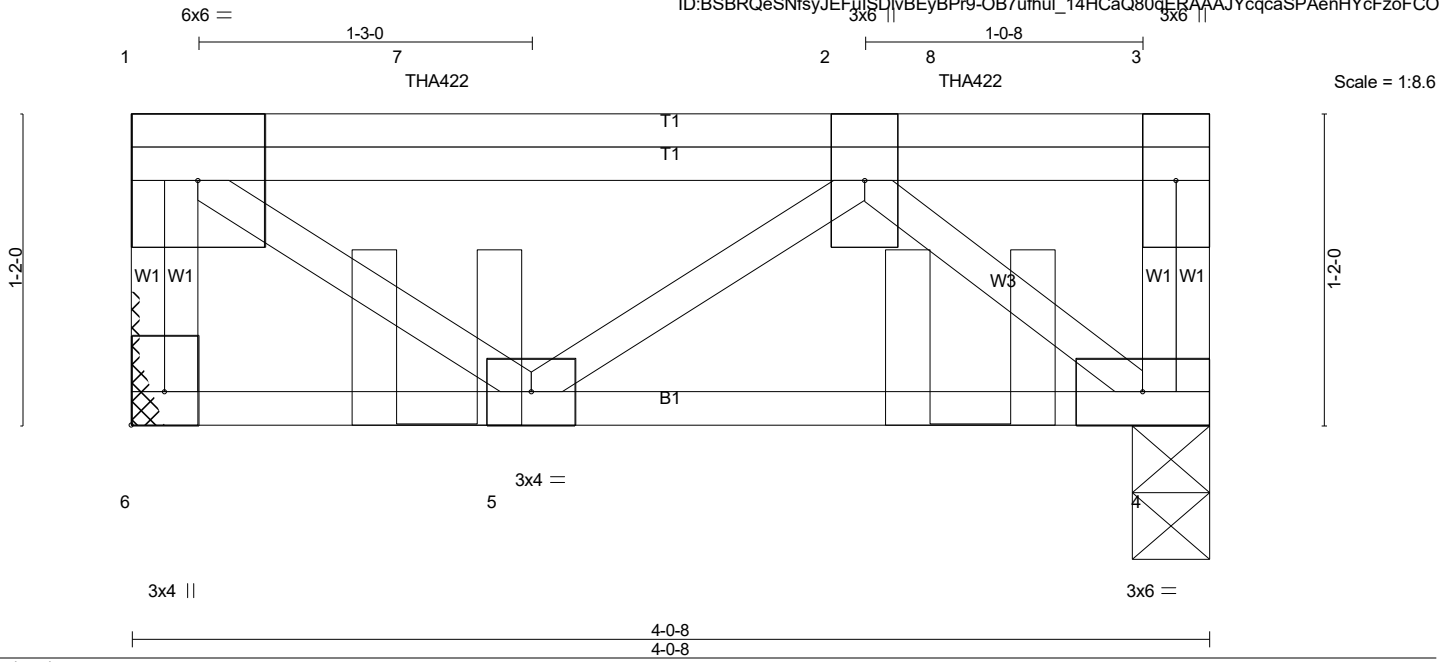


Plate Offsets (X,Y)-- [6:Edge,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.61	Vert(LL) -0.00	5	>999	480	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.21	Vert(CT) -0.01	4-5	>999	360		
BCLL 0.0	Lumber DOL 1.00	WB 0.29	Horz(CT) 0.00	4	n/a	n/a		
BCDL 5.0	Rep Stress Incr NO	Matrix-P						
	Code IRC2021/TPI2014							
							Weight: 29 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-0-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 6=748/Mechanical, 4=831/0-3-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-742/0, 1-7=-493/0, 2-7=-493/0
BOT CHORD 4-5=0/916
WEBS 1-5=0/606, 2-5=-537/0, 2-4=-1196/0

- NOTES-** (6-7)
- 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.
 - 3) Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-1-12 from the left end to 3-1-12 to connect truss(es) F218 (1 ply 2x4 SP) to front face of top chord.
 - 4) Fill all nail holes where hanger is in contact with lumber.
 - 5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
 - 6) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
 - 7) 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.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 4-6=-10, 1-3=-100
Concentrated Loads (lb)
Vert: 7=-575(F) 8=-587(F)



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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 25-0889-F02	Truss F221	Truss Type Floor	Qty 1	Ply 1	LOT 0.0016 CAMPBELL RIDGE 253 ALDEN WAY ANGIER, NC Job Reference (optional) # 56554
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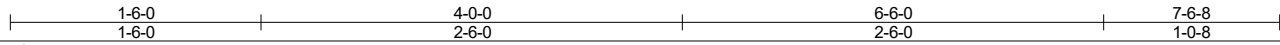
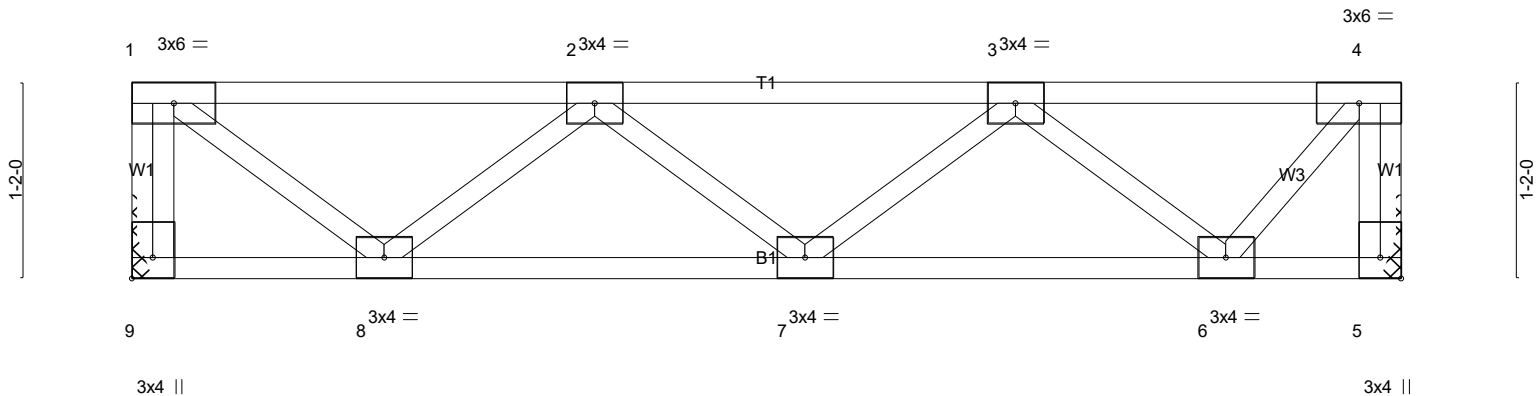


Plate Offsets (X,Y)-- [5:Edge,0-1-8], [9:Edge,0-1-8]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.28	Vert(LL) -0.01 7 >999 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.15	Vert(CT) -0.02 7 >999 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.23	Horz(CT) 0.00 5 n/a n/a		
BCDL 5.0	Code IRC2021/TPI2014	Matrix-P			
				Weight: 41 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

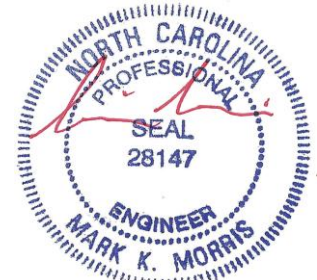
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 9=401/Mechanical, 5=401/Mechanical

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-9=-396/0, 4-5=-399/0, 1-2=-383/0, 2-3=-683/0, 3-4=-276/0
BOT CHORD 7-8=0/706, 6-7=0/628
WEBS 1-8=0/480, 2-8=-421/0, 3-6=-458/0, 4-6=0/417

- NOTES-** (3-4)
- 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.
 - 3) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
 - 4) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S) Standard



2/4/2025

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 25-0889-F02	Truss F222	Truss Type Floor Girder	Qty 1	Ply 1	LOT 0.0016 CAMPBELL RIDGE 253 ALDEN WAY ANGIER, NC Job Reference (optional) # 56554
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Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Feb 5 09:12:54 2025 Page 1
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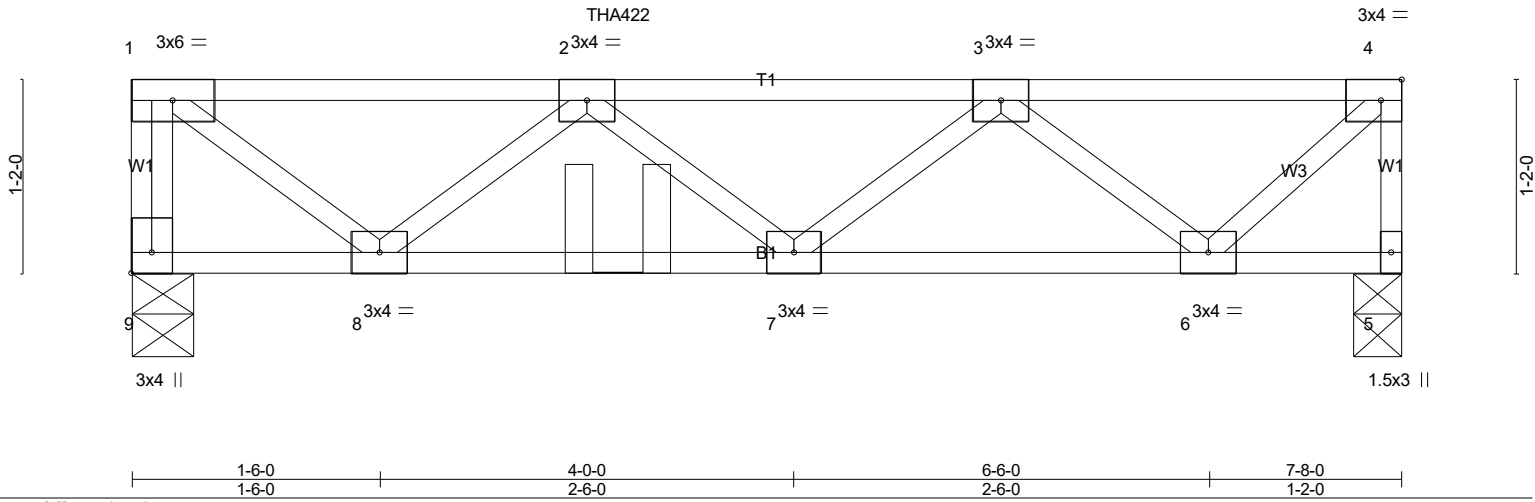


Plate Offsets (X,Y)-- [4:0-1-8,Edge], [9:Edge,0-1-8]	1-6-0 1-6-0	4-0-0 2-6-0	6-6-0 2-6-0	7-8-0 1-2-0
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.32	Vert(LL) -0.02 7 >999 480	MT20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.27	Vert(CT) -0.03 7 >999 360	
BCLL 0.0	Rep Stress Incr NO	WB 0.39	Horz(CT) 0.01 5 n/a n/a	
BCDL 5.0	Code IRC2021/TPI2014	Matrix-P		Weight: 40 lb FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

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

REACTIONS. (lb/size) 9=607/0-4-8 (min. 0-1-8), 5=517/0-3-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-9=-600/0, 4-5=-513/0, 1-2=-651/0, 2-3=-1086/0, 3-4=-443/0
BOT CHORD 7-8=0/1220, 6-7=0/921
WEBS 1-8=0/817, 2-8=-740/0, 3-6=-622/0, 4-6=0/609

- NOTES-** (5-6)
- 1) 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.
 - 2) Use Simpson Strong-Tie THA422 (Single Chord Girder) or equivalent at 2-11-4 from the left end to connect truss(es) F221 (1 ply 2x4 SP) to front face of top chord.
 - 3) Fill all nail holes where hanger is in contact with lumber.
 - 4) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
 - 5) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
 - 6) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-9=-10, 1-4=-100
Concentrated Loads (lb)
Vert: 2=-301(F)



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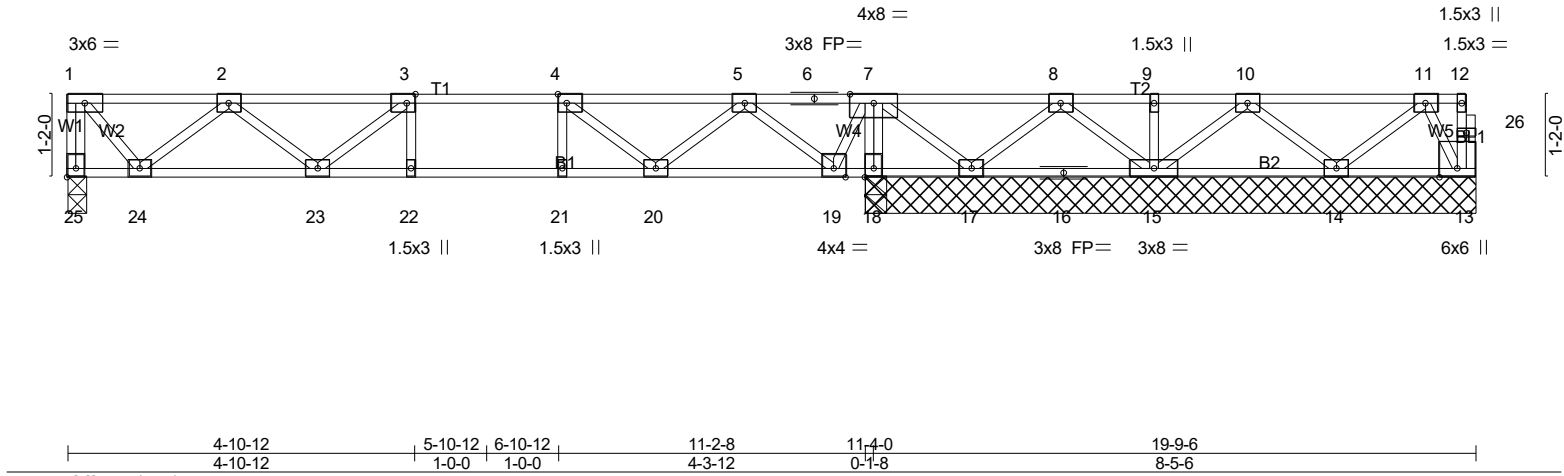
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Job	Truss	Truss Type	Qty	Ply	LOT 0.0016 CAMPBELL RIDGE 253 ALDEN WAY ANGIER, NC
25-0889-F02	F223	Floor	1	1	Job Reference (optional) # 56554

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Scale = 1:32.4



LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.33	Vert(LL) -0.08	22-23	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.54	Vert(CT) -0.10	22-23	>999	360		
BCLL 0.0	Rep Stress Incr YES	WB 0.31	Horz(CT) 0.01	13	n/a	n/a		
BCDL 5.0	Code IRC2021/TPI2014	Matrix-SH						
							Weight: 103 lb	FT = 20%F, 11%E

LUMBER-
 TOP CHORD 2x4 SP No.1(flat)
 BOT CHORD 2x4 SP No.1(flat)
 WEBS 2x4 SP No.3(flat)

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 18-19,17-18,15-17.

REACTIONS. All bearings 8-6-14 except (jt=length) 25=0-3-8.
 (lb) - Max Uplift All uplift 100 lb or less at joint(s) 17
 Max Grav All reactions 250 lb or less at joint(s) 17, 14, 13 except 25=558(LC 1), 18=1046(LC 4), 18=1009(LC 1), 15=315(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-25=-553/0, 1-2=-410/0, 2-3=-1177/0, 3-4=-1315/0, 4-5=-829/0, 5-6=-107/510, 6-7=-107/510, 7-8=0/403
 BOT CHORD 23-24=0/966, 22-23=0/1315, 21-22=0/1315, 20-21=0/1315, 19-20=0/427, 18-19=-789/0, 17-18=-771/0
 WEBS 7-18=-1012/0, 2-23=0/274, 2-24=-724/0, 1-24=0/628, 4-20=-620/0, 5-20=0/563, 5-19=-858/0, 7-19=0/644, 7-17=-34/464, 8-17=-370/0

- NOTES-** (6-7)
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x4 MT20 unless otherwise indicated.
 - 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17.
 - 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.
 - 6) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
 - 7) 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.

LOAD CASE(S) Standard

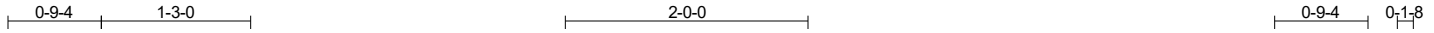


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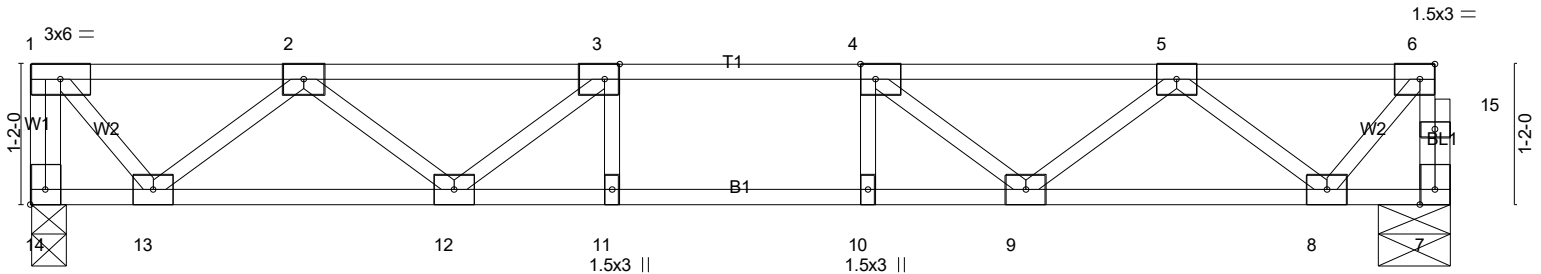
Warning!—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – 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 25-0889-F02	Truss F224	Truss Type Floor	Qty 3	Ply 1	LOT 0.0016 CAMPBELL RIDGE 253 ALDEN WAY ANGIER, NC Job Reference (optional) # 56554
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Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Feb 5 09:12:54 2025 Page 1
ID:BSBRQeSNfsyJEFulSDivBEyBPr9-sNhHs1vNILC8qk?KZXlgiOib908sJwZJtR158hzoFCN



Scale = 1:19.1



4-10-12	5-10-12	6-10-12	11-9-8
4-10-12	1-0-0	1-0-0	4-10-12
Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [6:0-1-8,Edge], [14:Edge,0-1-8]			

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.17	Vert(LL) -0.05	9-10	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.34	Vert(CT) -0.07	10	>999	360		
BCLL 0.0	Rep Stress Incr YES	WB 0.23	Horz(CT) 0.01	7	n/a	n/a		
BCDL 5.0	Code IRC2021/TPI2014	Matrix-SH						
							Weight: 60 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=423/0-3-8 (min. 0-1-8), 7=419/0-7-0 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-14=-422/0, 7-15=-419/0, 6-15=-418/0, 1-2=-316/0, 2-3=-952/0, 3-4=-1156/0, 4-5=-951/0, 5-6=-318/0
 BOT CHORD 12-13=0/741, 11-12=0/1156, 10-11=0/1156, 9-10=0/1156, 8-9=0/740
 WEBS 3-12=-320/0, 2-12=0/274, 2-13=-553/0, 1-13=0/485, 4-9=-320/0, 5-9=0/275, 5-8=-550/0, 6-8=0/468

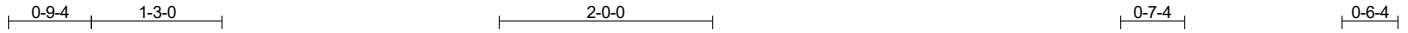
- NOTES-** (5-6)
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x4 MT20 unless otherwise indicated.
 - 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 4) CAUTION, Do not erect truss backwards.
 - 5) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
 - 6) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S) Standard

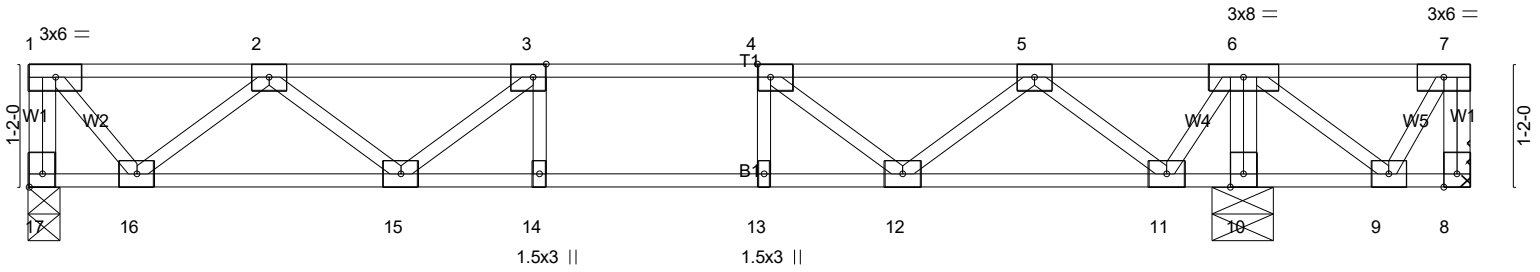


2/4/2025

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.



Scale = 1:21.8



4-10-12	5-10-12	6-10-12	11-6-0
4-10-12	1-0-0	1-0-0	4-7-4
Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [17:Edge,0-1-8]			13-7-12
			2-1-12

LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.25	Vert(LL)	-0.05 14-15	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.39	Vert(CT)	-0.07 14-15	>999	360		
BCLL 0.0	Rep Stress Incr	NO	WB 0.23	Horz(CT)	0.01 10	n/a	n/a		
BCDL 5.0	Code IRC2021/TPI2014		Matrix-SH						
								Weight: 73 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: 6-0-0 oc bracing: 10-11,9-10.
WEBS 2x4 SP No.3(flat)	

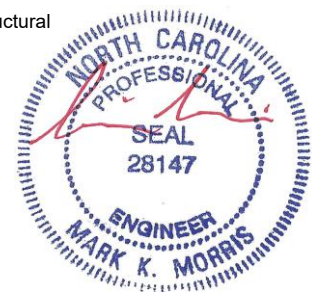
REACTIONS. (lb/size) 17=376/0-3-8 (min. 0-1-8), 8=-22/Mechanical, 10=763/0-7-0 (min. 0-1-8)
 Max Uplift8=-89(LC 8)
 Max Grav 17=377(LC 3), 8=164(LC 7), 10=790(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-17=-373/0, 1-2=-277/0, 2-3=-799/0, 3-4=-900/0, 4-5=-589/0, 5-6=-79/304
 BOT CHORD 15-16=0/652, 14-15=0/900, 13-14=0/900, 12-13=0/900, 11-12=0/310, 10-11=-546/0, 9-10=-535/0
 WEBS 6-10=-763/0, 2-16=-489/0, 1-16=0/424, 4-12=-401/0, 5-12=0/367, 5-11=-595/0, 6-11=0/477, 6-9=0/454, 7-9=-332/0

- NOTES-** (8-9)
- Unbalanced floor live loads have been considered for this design.
 - All plates are 3x4 MT20 unless otherwise indicated.
 - 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) 8.
 - Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - CAUTION, Do not erect truss backwards.
 - Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. 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.

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00	
Uniform Loads (plf)	
Vert: 8-17=-7, 1-7=-67	
Concentrated Loads (lb)	
Vert: 7=-135	
2) Dead: Lumber Increase=1.00, Plate Increase=1.00	
Uniform Loads (plf)	
Vert: 8-17=-7, 1-7=-67	



Continued on page 2 2/4/2025

Warning!—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 *National Design Standard for Metal Plate Connected Wood Truss Construction* and BCSI 1-03 *Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses* from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	LOT 0.0016 CAMPBELL RIDGE 253 ALDEN WAY ANGIER, NC
25-0889-F02	F225	Floor	4	1	Job Reference (optional) # 56554

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Feb 5 09:12:55 2025 Page 2
ID:BSBRQeSNfsyJEFuISDvBEyBPr9-KaF4Nw?WeK_SuZW7FGvFbFlnQTE2NsT65meg8zoFCM

LOAD CASE(S) Standard

- Concentrated Loads (lb)
Vert: 7=-135
- 3) 1st Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 8-17=-7, 1-6=-67, 6-7=-13
Concentrated Loads (lb)
Vert: 7=-135
- 4) 2nd Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 8-17=-7, 1-6=-13, 6-7=-67
Concentrated Loads (lb)
Vert: 7=-135
- 5) 3rd unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 8-17=-7, 1-6=-67, 6-7=-13
Concentrated Loads (lb)
Vert: 7=-135
- 6) 4th unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 8-17=-7, 1-6=-13, 6-7=-67
Concentrated Loads (lb)
Vert: 7=-135
- 7) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 8-17=-7, 1-4=-67, 4-6=-13, 6-7=-67
Concentrated Loads (lb)
Vert: 7=-135
- 8) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 8-17=-7, 1-3=-13, 3-7=-67
Concentrated Loads (lb)
Vert: 7=-135
- 9) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 8-17=-7, 1-4=-67, 4-6=-13, 6-7=-67
Concentrated Loads (lb)
Vert: 7=-135
- 10) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 8-17=-7, 1-3=-13, 3-7=-67
Concentrated Loads (lb)
Vert: 7=-135



2/4/2025

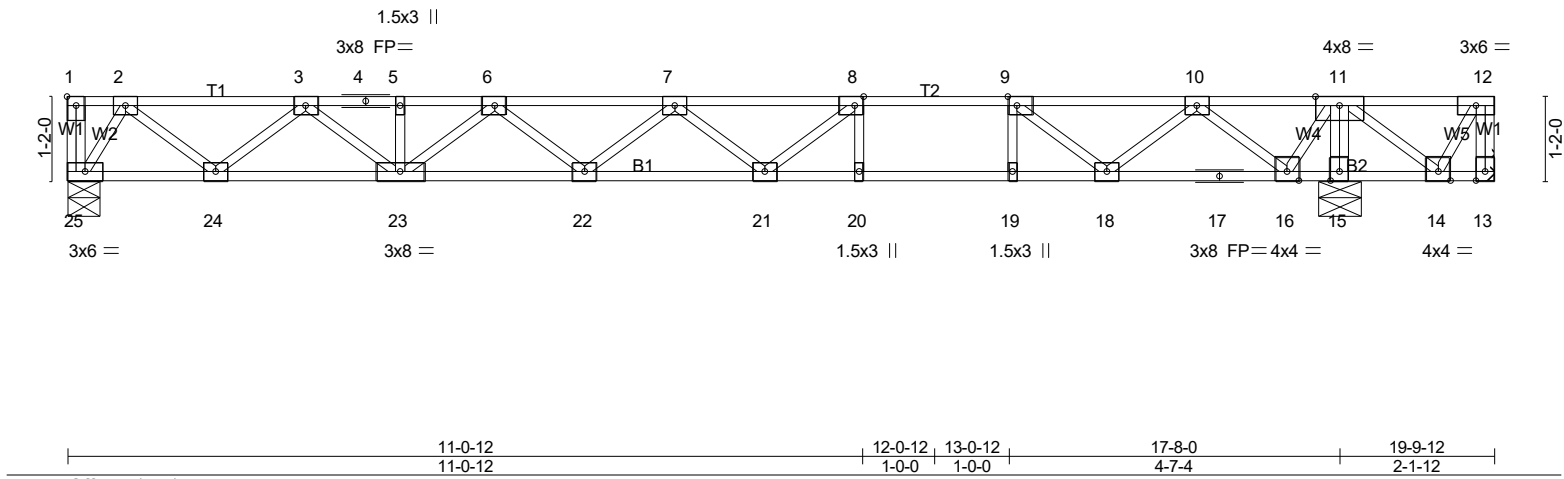
Warning!—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – 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 25-0889-F02	Truss F226	Truss Type Floor	Qty 5	Ply 1	LOT 0.0016 CAMPBELL RIDGE 253 ALDEN WAY ANGIER, NC Job Reference (optional) # 56554
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Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Feb 5 09:12:55 2025 Page 1
ID:BSBRQeSNfsyJEFuISDlvBEyBP9-KaFf4Nw?WeK_SuZW7FGvFbFchQMd2KqT65meg8zoFCM



Scale: 3/8"=1'



LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 40.0	1-4-0	TC 0.83	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.88	Vert(LL) -0.28 20-21 >761 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.42	Vert(CT) -0.38 20-21 >556 360		
BCDL 5.0	Rep Stress Incr NO	Matrix-SH	Horz(CT) 0.03 15 n/a n/a		
	Code IRC2021/TPI2014			Weight: 104 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP SS(flat) *Except*
B2: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

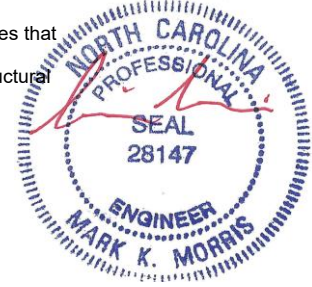
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 15-16,14-15.

REACTIONS. (lb/size) 25=578/0-5-8 (min. 0-1-8), 13=-357/Mechanical, 15=1348/0-7-0 (min. 0-1-8)
Max Uplift 13=-408(LC 3)
Max Grav 25=578(LC 3), 13=51(LC 4), 15=1348(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 12-13=-48/416, 2-3=-920/0, 3-4=-1785/0, 4-5=-1785/0, 5-6=-1785/0, 6-7=-2141/0, 7-8=-2055/0, 8-9=-1594/0, 9-10=-718/0, 10-11=0/615, 11-12=0/341
BOT CHORD 24-25=0/391, 23-24=0/1431, 22-23=0/2037, 21-22=0/2251, 20-21=0/1594, 19-20=0/1594, 18-19=0/1594, 15-16=-1062/0, 14-15=-1043/0
WEBS 8-20=-369/0, 9-19=0/391, 11-15=-1328/0, 8-21=0/630, 7-21=-273/2, 6-23=-322/0, 3-23=0/451, 3-24=-666/0, 2-24=0/689, 2-25=-709/0, 9-18=-1122/0, 10-18=0/810, 10-16=-928/0, 11-16=0/768, 11-14=0/884, 12-14=-648/0

- NOTES-** (8-9)
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x4 MT20 unless otherwise indicated.
 - 3) Refer to girder(s) for truss to truss connections.
 - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=408.
 - 5) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - 6) 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.
 - 7) CAUTION. Do not erect truss backwards.
 - 8) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. 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.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 13-25=-7, 1-12=-67
Concentrated Loads (lb)
Vert: 12=-135



Continued on page 2

2/4/2025

Warning!—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 *National Design Standard for Metal Plate Connected Wood Truss Construction* and BCSI 1-03 *Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses* from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	LOT 0.0016 CAMPBELL RIDGE 253 ALDEN WAY ANGIER, NC
25-0889-F02	F226	Floor	5	1	Job Reference (optional) # 56554

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LOAD CASE(S) Standard

- 2) Dead: Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
 - Vert: 13-25=-7, 1-12=-67
 - Concentrated Loads (lb)
 - Vert: 12=-135
- 3) 1st Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
 - Vert: 13-25=-7, 1-11=-67, 11-12=-13
 - Concentrated Loads (lb)
 - Vert: 12=-135
- 4) 2nd Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
 - Vert: 13-25=-7, 1-11=-13, 11-12=-67
 - Concentrated Loads (lb)
 - Vert: 12=-135
- 5) 3rd unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
 - Vert: 13-25=-7, 1-11=-67, 11-12=-13
 - Concentrated Loads (lb)
 - Vert: 12=-135
- 6) 4th unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
 - Vert: 13-25=-7, 1-11=-13, 11-12=-67
 - Concentrated Loads (lb)
 - Vert: 12=-135
- 7) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
 - Vert: 13-25=-7, 1-9=-67, 9-11=-13, 11-12=-67
 - Concentrated Loads (lb)
 - Vert: 12=-135
- 8) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
 - Vert: 13-25=-7, 1-8=-13, 8-12=-67
 - Concentrated Loads (lb)
 - Vert: 12=-135
- 9) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
 - Vert: 13-25=-7, 1-9=-67, 9-11=-13, 11-12=-67
 - Concentrated Loads (lb)
 - Vert: 12=-135
- 10) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
 - Vert: 13-25=-7, 1-8=-13, 8-12=-67
 - Concentrated Loads (lb)
 - Vert: 12=-135



2/4/2025

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 25-0889-F02	Truss F227	Truss Type Floor	Qty 3	Ply 1	LOT 0.0016 CAMPBELL RIDGE 253 ALDEN WAY ANGIER, NC # 56554
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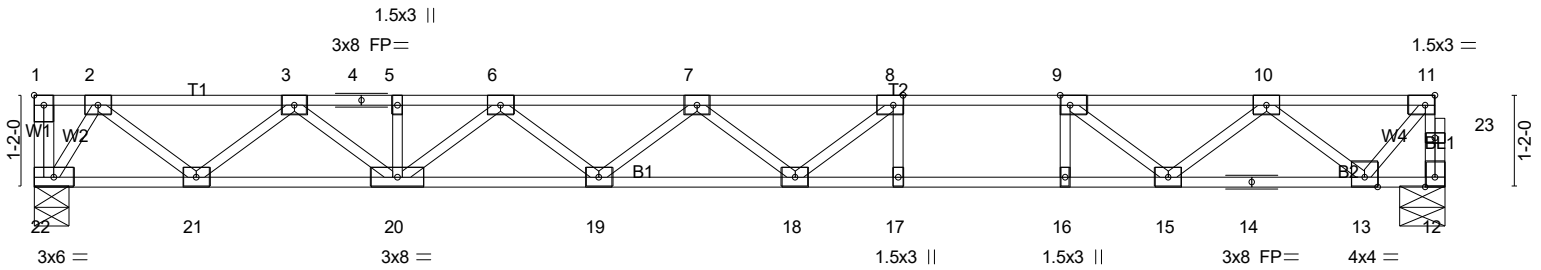
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0-6-12 1-3-0

2-0-0

0-9-4 0-1-8

Scale = 1:29.3



11-0-12 11-0-12	12-0-12 1-0-0	13-0-12 1-0-0	17-11-8 4-10-12
Plate Offsets (X,Y)-- [1:Edge,0-1-8], [8:0-1-8,Edge], [9:0-1-8,Edge], [11:0-1-8,Edge]			

LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.63	Vert(LL)	-0.29 17-18	>744	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.77	Vert(CT)	-0.39 17-18	>542	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.38	Horz(CT)	0.04 12	n/a	n/a		
BCDL 5.0	Code IRC2021/TPI2014		Matrix-SH						
								Weight: 91 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.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (lb/size) 22=649/0-5-8 (min. 0-1-8), 12=645/0-7-0 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 12-23=-656/0, 11-23=-655/0, 2-3=-1051/0, 3-4=-2088/0, 4-5=-2088/0, 5-6=-2088/0,
6-7=-2619/0, 7-8=-2706/0, 8-9=-2403/0, 9-10=-1689/0, 10-11=-511/0
BOT CHORD 21-22=0/437, 20-21=0/1647, 19-20=0/2434, 18-19=0/2804, 17-18=0/2403, 16-17=0/2403,
15-16=0/2403, 14-15=0/1171, 13-14=0/1171
WEBS 8-17=-312/0, 9-16=0/334, 8-18=-37/491, 6-20=-441/0, 3-20=0/564, 3-21=-776/0,
2-21=0/799, 2-22=-794/0, 9-15=-920/0, 10-15=0/674, 10-13=-859/0, 11-13=0/756

- NOTES-** (5-6)
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x4 MT20 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.
 - 5) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
 - 6) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S) Standard



2/4/2025

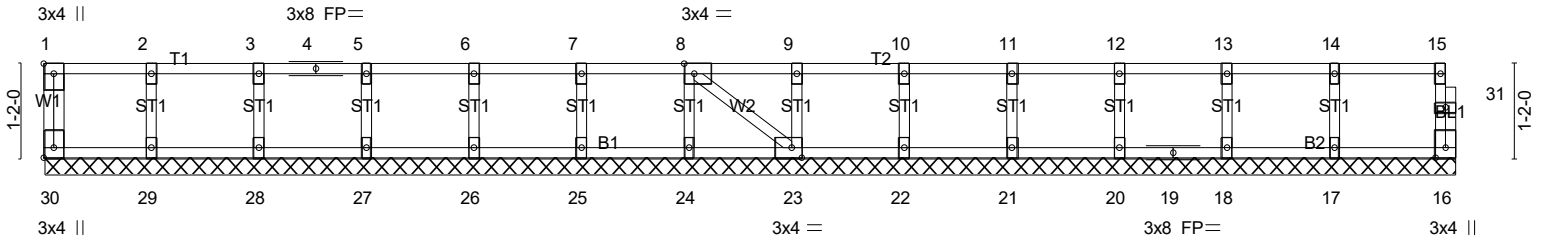
Warning!—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – 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 25-0889-F02	Truss F228	Truss Type Floor Supported Gable	Qty 1	Ply 1	LOT 0.0016 CAMPBELL RIDGE 253 ALDEN WAY ANGIER, NC Job Reference (optional) # 56554
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Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Feb 5 09:12:56 2025 Page 1
ID:BSBRQeSNfsyJEFuISDlvBEyBPr9-omo1HjwdHySr328ihyn8npoylqvUns8cKIWCCazoFCL

0-1-8

Scale = 1:28.6



17-6-0
17-6-0

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [8:0-1-8,Edge], [23:0-1-8,Edge], [30:Edge,0-1-8]

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 0.07	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.01	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	16	n/a		
BCDL 5.0	Code IRC2021/TPI2014		Matrix-SH						
								Weight: 76 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

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

REACTIONS. All bearings 17-6-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 30, 16, 29, 28, 27, 26, 25, 24, 23, 22, 21, 20, 18, 17

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

- NOTES-** (7-8)
- All plates are 1.5x3 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 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.
 - Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. 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.

LOAD CASE(S) Standard



2/4/2025

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