Mark Morris, P.E.
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Mark Morris

Digitally signed by Mark Morris
Date: 2025-03-25 06:06:38

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 #: 57916
JOB: 25-2455-F02
JOB NAME: LOT 0.0027 CAMPBELL RIDGE
Wind Code: N/A
Wind Speed: Vult= N/A
Exposure Category: N/A
Mean Roof Height (feet): N/A
These truss designs comply with IRC 2015 as well as IRC 2018.
21 Truss Design(s)

Trusses:
F201, F202, F203, F204, F205, F205A, F206, F208, F209, F210, F211, F212, F213, F214, F215, F216, F217, F218, F219, F220, F221

3/24/2025
Mark Morris
My license renewal date for the state of North Carolina is 12/31/2025

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

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

Job	Truss	Truss Type	Qty	Ply	LOT 0.0027 CAMPBELL RIDGE | 49 ALDEN WAY ANGIER, NC
25-2455-F02	F201	Floor Supported Gable	1	1	Job Reference (optional) **# 57916**

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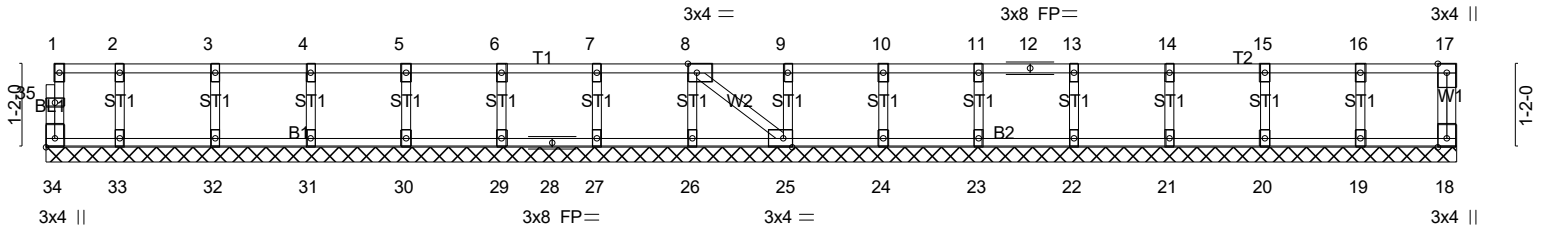
0-1-8

Scale: 3/8"=1'



19-8-6
19-8-6

Plate Offsets (X,Y)-- [8:0-1-8,Edge], [25:0-1-8,Edge], [34: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	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	18	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 85 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 19-8-6.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 18, 34, 19, 20, 21, 22, 23, 24, 25, 26, 27, 29, 30, 31, 32, 33

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

NOTES- (7-8)
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) 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

3/24/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0027 CAMPBELL RIDGE | 49 ALDEN WAY ANGIER, NC
25-2455-F02	F202	Floor	3	1	# 57916
					Job Reference (optional)

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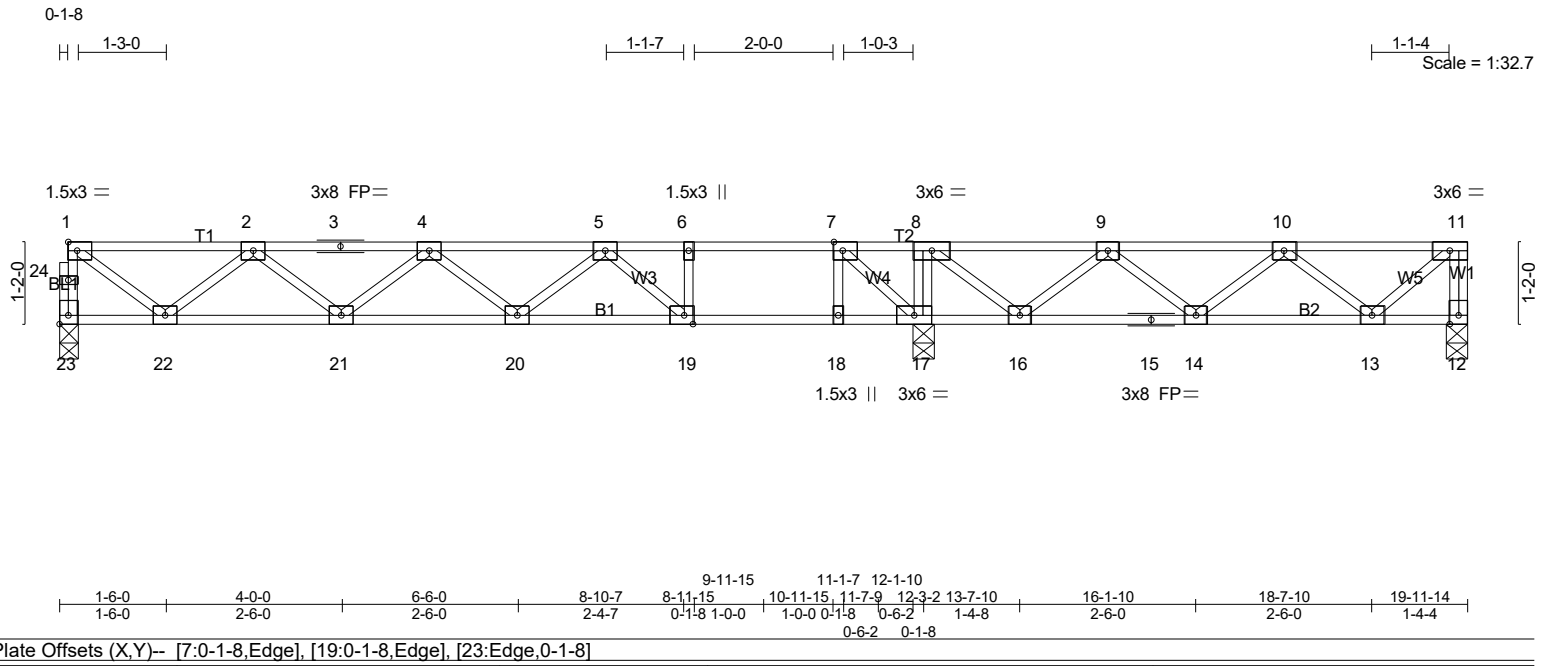

Plate Offsets (X,Y)-- [7:0-1-8,Edge], [19:0-1-8,Edge], [23:Edge,0-1-8]

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	0.90	Vert(LL)	-0.22	19-20	>653	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.67	Vert(CT)	-0.31	19-20	>474	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.02	12	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 102 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 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 16-17.

REACTIONS. (lb/size) 23=549/0-3-6 (min. 0-1-8), 12=366/0-3-8 (min. 0-1-8), 17=816/0-3-8 (min. 0-1-8)
Max Grav 23=558(LC 3), 12=371(LC 7), 17=816(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 23-24=-556/0, 1-24=-555/0, 11-12=-368/0, 1-2=-630/0, 2-3=-1431/0, 3-4=-1431/0, 4-5=-1744/0, 5-6=-1209/0, 6-7=-1209/0, 7-8=-292/27, 8-9=-551/0, 9-10=-729/0, 10-11=-340/0
BOT CHORD 21-22=0/1169, 20-21=0/1696, 19-20=0/1661, 18-19=0/1209, 17-18=0/1209, 16-17=-27/292, 15-16=0/774, 14-15=0/774, 13-14=0/664
WEBS 7-18=0/345, 8-17=-335/54, 1-22=0/761, 2-22=-702/0, 2-21=0/340, 4-21=-345/0, 5-19=-632/0, 7-17=-1213/0, 8-16=0/411, 9-16=-346/0, 10-13=-422/0, 11-13=0/445

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

3/24/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0027 CAMPBELL RIDGE | 49 ALDEN WAY ANGIER, NC
25-2455-F02	F203	Floor	4	1	Job Reference (optional) **# 57916**

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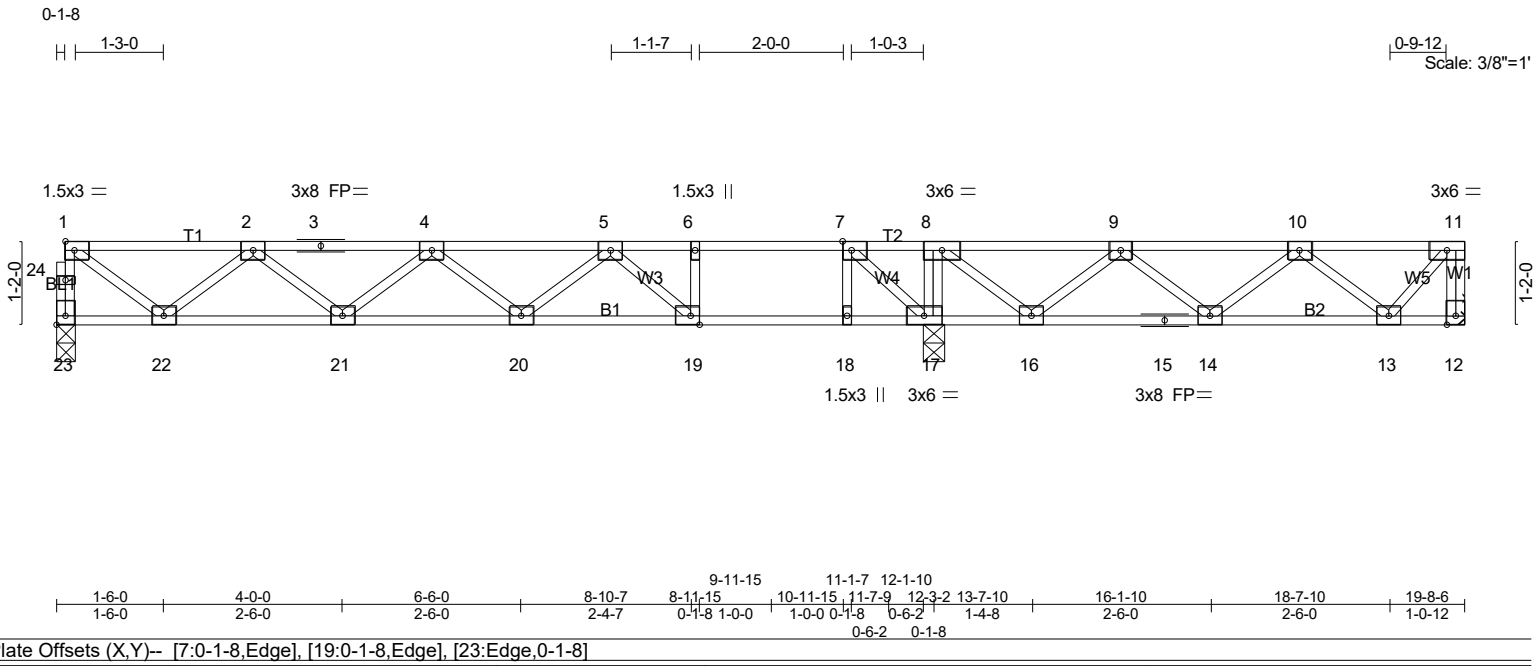


Plate Offsets (X,Y)-- [7:0-1-8,Edge], [19:0-1-8,Edge], [23:Edge,0-1-8]

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	0.89	Vert(LL)	-0.22	19-20	>655	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.67	Vert(CT)	-0.31	19-20	>476	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.02	12	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 100 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
B1: 2x4 SP SS(flat)
WEBS 2x4 SP No.3(flat)

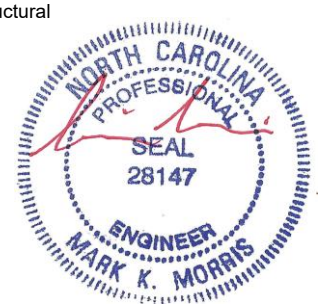
BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 16-17.

REACTIONS. (lb/size) 12=358/Mechanical, 23=551/0-3-6 (min. 0-1-8), 17=797/0-3-8 (min. 0-1-8)
Max Grav 12=363(LC 7), 23=559(LC 3), 17=797(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 23-24=-557/0, 1-24=-556/0, 11-12=-362/0, 1-2=-631/0, 2-3=-1433/0, 3-4=-1433/0, 4-5=-1748/0, 5-6=-1216/0, 6-7=-1216/0, 7-8=-301/9, 8-9=-550/0, 9-10=-684/0, 10-11=-263/0
BOT CHORD 21-22=0/1171, 20-21=0/1700, 19-20=0/1666, 18-19=0/1216, 17-18=0/1216, 16-17=-9/301, 15-16=0/754, 14-15=0/754, 13-14=0/593
WEBS 7-18=0/343, 8-17=-320/60, 1-22=0/762, 2-22=-704/0, 2-21=0/342, 4-21=-347/0, 5-19=-627/0, 7-17=-1211/0, 8-16=0/388, 9-16=-323/0, 10-13=-430/0, 11-13=0/393

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



3/24/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0027 CAMPBELL RIDGE | 49 ALDEN WAY ANGIER, NC
25-2455-F02	F204	Floor Supported Gable	1	1	Job Reference (optional) **# 57916**

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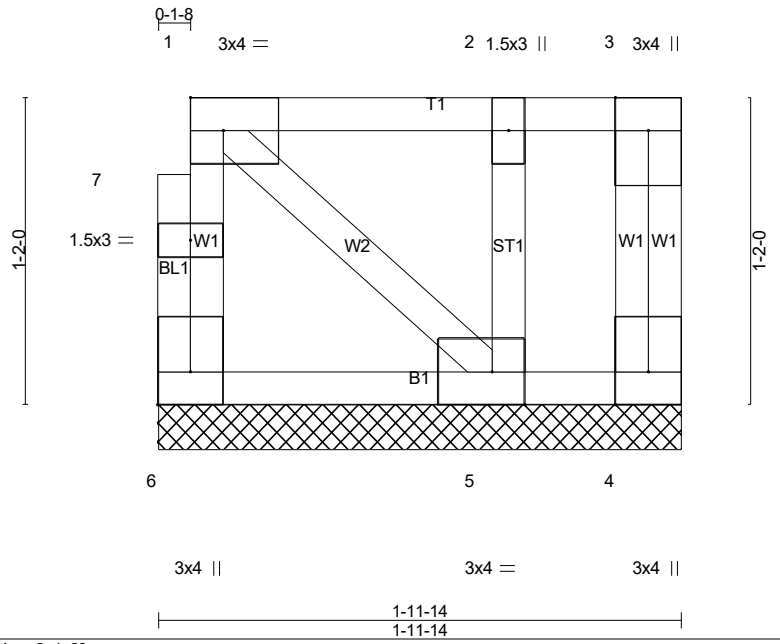

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [6:Edge,0-1-8]

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	0.05	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	4	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-P							Weight: 14 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 1-11-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 6=50/1-11-14 (min. 0-1-8), 4=5/1-11-14 (min. 0-1-8), 5=130/1-11-14 (min. 0-1-8)

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

NOTES- (6-7)
1) Gable requires continuous bottom chord bearing.
2) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
3) Gable studs spaced at 1-4-0 oc.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.
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

3/24/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0027 CAMPBELL RIDGE | 49 ALDEN WAY ANGIER, NC
25-2455-F02	F205	Floor	3	1	Job Reference (optional) **# 57916**

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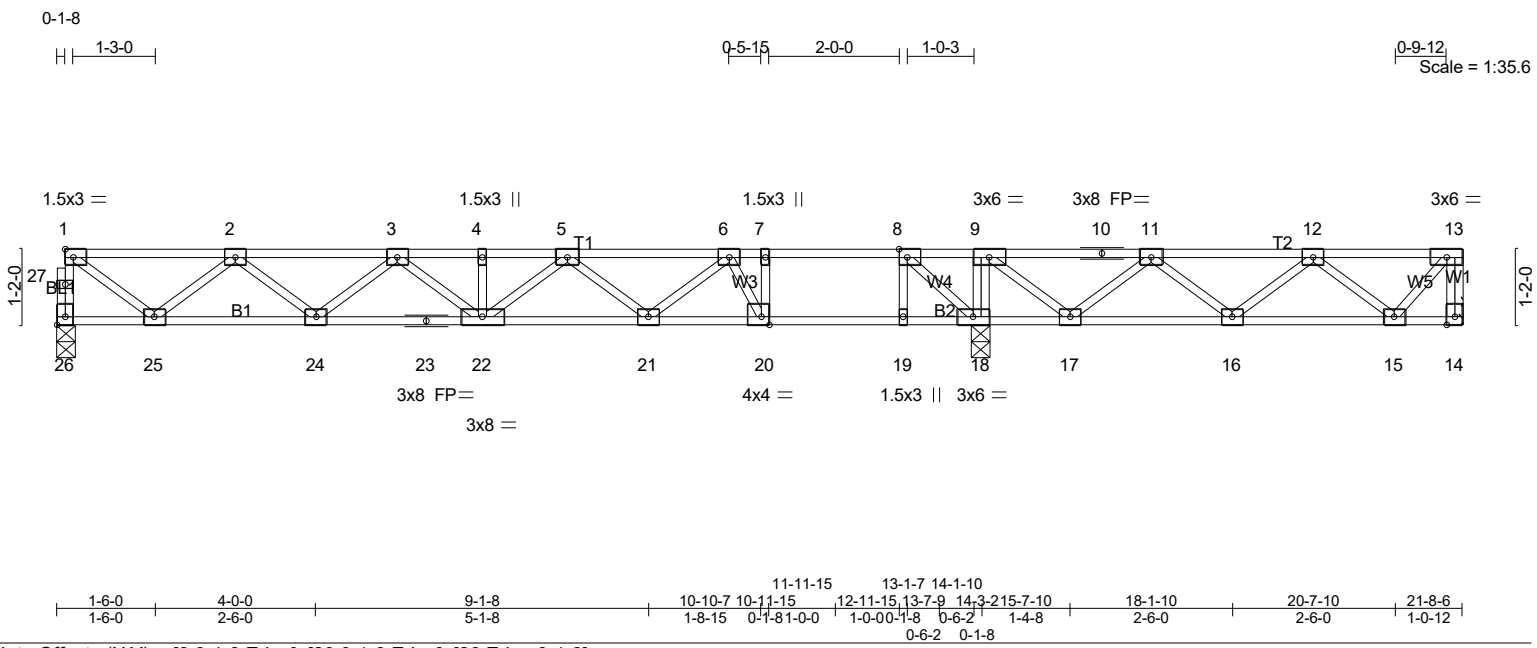

Plate Offsets (X,Y)-- [8:0-1-8,Edge], [20:0-1-8,Edge], [26:Edge,0-1-8]

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	0.77	Vert(LL)	-0.27	20-21	>626	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.77	Vert(CT)	-0.37	20-21	>456	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.03	14	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 112 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat) *Except* T1: 2x4 SP SS(flat)
BOT CHORD 2x4 SP No.1(flat) *Except* B2: 2x4 SP SS(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: 17-18.

REACTIONS. (lb/size) 26=604/0-3-6 (min. 0-1-8), 14=297/Mechanical, 18=980/0-3-8 (min. 0-1-8)
Max Grav 26=611(LC 3), 14=302(LC 7), 18=980(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 26-27=-607/0, 1-27=-606/0, 13-14=-301/0, 1-2=-696/0, 2-3=-1638/0, 3-4=-2047/0, 4-5=-2047/0, 5-6=-1920/0, 6-7=-1042/0, 7-8=-1042/0, 11-12=-483/0
BOT CHORD 24-25=0/1308, 23-24=0/1934, 22-23=0/1934, 21-22=0/2078, 20-21=0/1565, 19-20=0/1042, 18-19=0/1042, 16-17=0/482, 15-16=0/465
WEBS 7-20=0/691, 8-19=0/423, 9-18=-324/59, 1-25=0/843, 2-25=-796/0, 2-24=0/429, 3-24=-386/0, 6-21=0/481, 6-20=-1135/0, 8-18=-1558/0, 9-17=0/485, 11-17=-370/0, 12-15=-335/0, 13-15=0/312

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

3/24/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0027 CAMPBELL RIDGE | 49 ALDEN WAY ANGIER, NC
25-2455-F02	F205A	Floor	1	1	Job Reference (optional) **# 57916**

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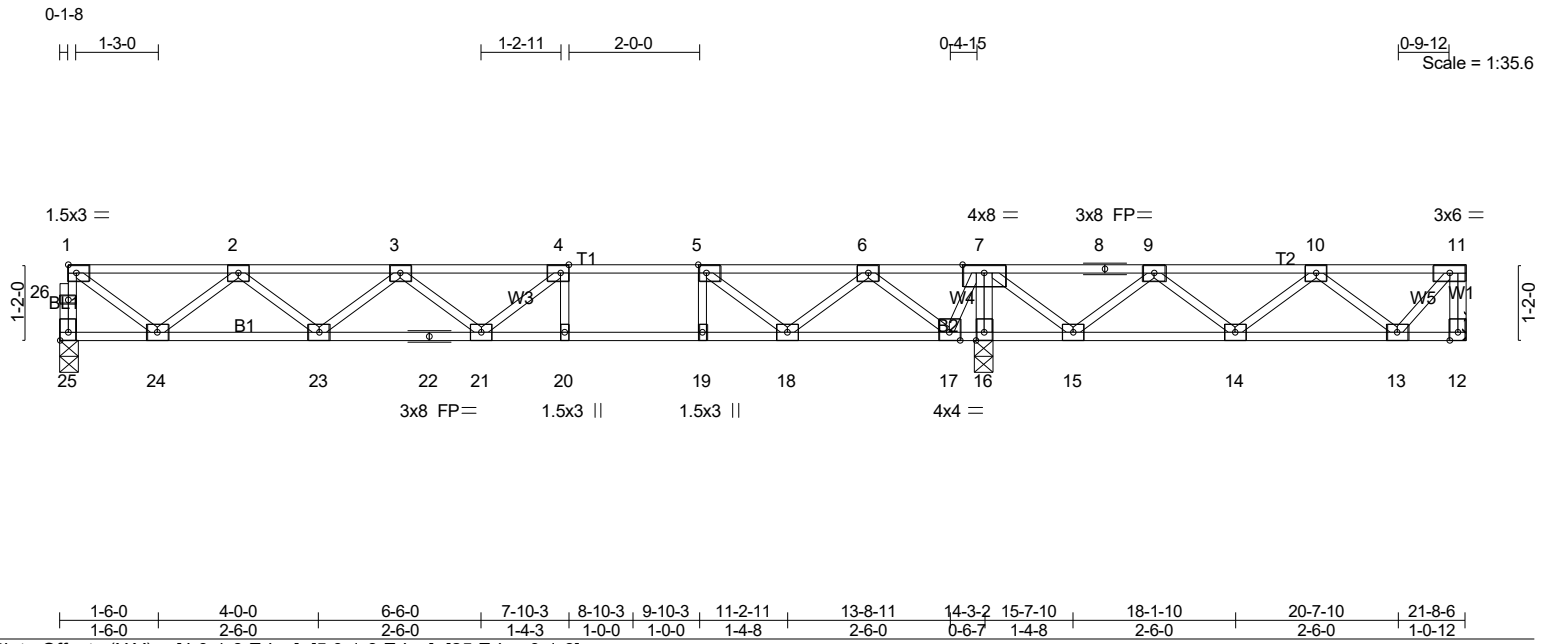

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.55	Vert(LL)	-0.18	20-21	>951	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.93	Vert(CT)	-0.24	20-21	>701	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.02	16	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 111 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 2-2-0 oc bracing.

REACTIONS. (lb/size) 25=563/0-3-6 (min. 0-1-8), 12=218/Mechanical, 16=1100/0-3-8 (min. 0-1-8)
Max Uplift12=-1(LC 3)
Max Grav 25=571(LC 3), 12=279(LC 4), 16=1100(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 25-26=-568/0, 1-26=-567/0, 11-12=-277/2, 1-2=-642/0, 2-3=-1492/0, 3-4=-1768/0, 4-5=-1589/0, 5-6=-910/0, 6-7=0/500, 7-8=-73/410, 8-9=-73/410, 9-10=-405/139
BOT CHORD 23-24=0/1195, 22-23=0/1780, 21-22=0/1780, 20-21=0/1589, 19-20=0/1589, 18-19=0/1589, 17-18=-21/387, 16-17=-741/0, 15-16=-724/0, 14-15=-254/365, 13-14=-50/420
WEBS 5-19=0/271, 7-16=-1083/0, 1-24=0/776, 2-24=-721/0, 2-23=0/386, 3-23=-375/0, 4-21=-9/308, 5-18=-891/0, 6-18=0/699, 6-17=-880/0, 7-17=0/672, 7-15=0/517, 9-15=-482/0, 10-13=-302/48, 11-13=-20/281

NOTES- (7-8)
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 1 lb uplift at joint 12.
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

3/24/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0027 CAMPBELL RIDGE | 49 ALDEN WAY ANGIER, NC
25-2455-F02	F206	Floor	2	1	Job Reference (optional) **# 57916**

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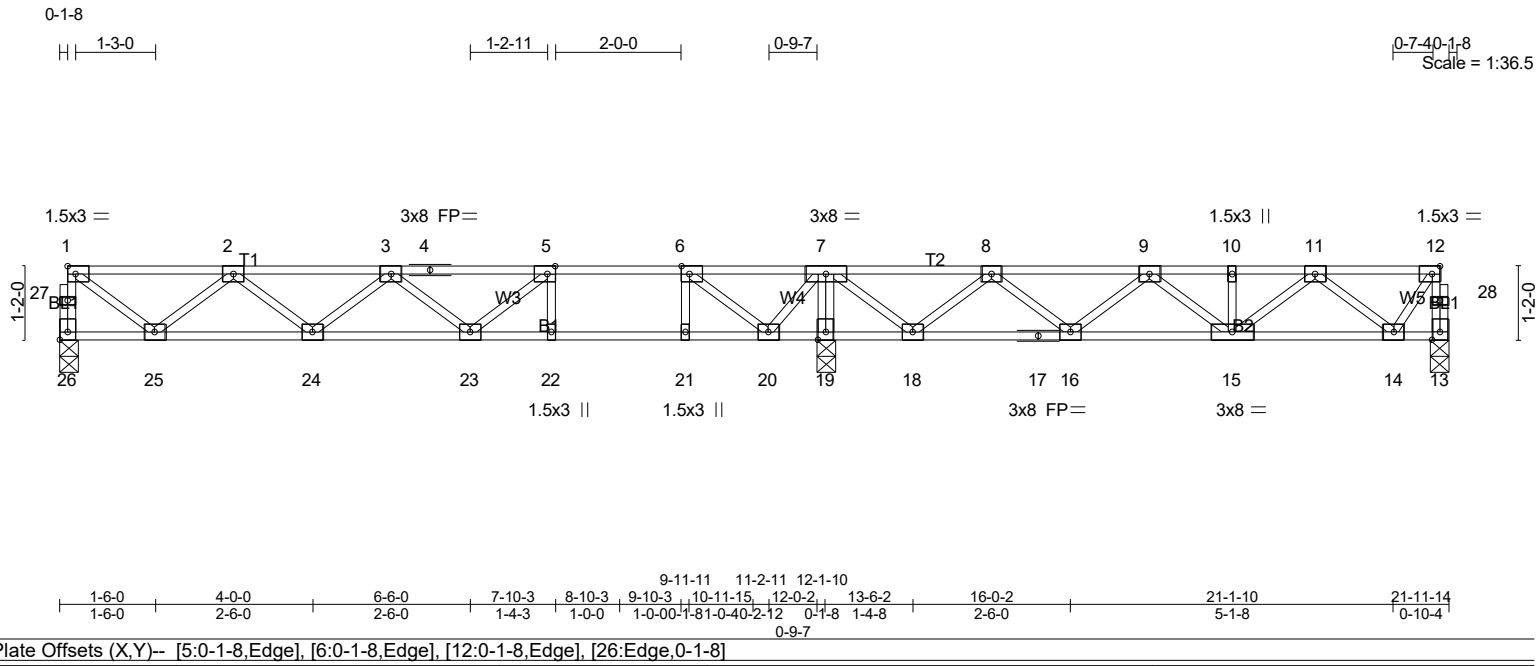

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [6:0-1-8,Edge], [12:0-1-8,Edge], [26:Edge,0-1-8]

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	0.65	Vert(LL)	-0.19	22-23	>768	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.99	Vert(CT)	-0.25	22-23	>566	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.03	13	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 112 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 2-2-0 oc bracing.

REACTIONS. (lb/size) 26=513/0-3-6 (min. 0-1-8), 13=411/0-3-8 (min. 0-1-8), 19=978/0-3-8 (min. 0-1-8)
Max Grav 26=532(LC 3), 13=424(LC 7), 19=978(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 26-27=-529/0, 1-27=-529/0, 13-28=-425/0, 12-28=-424/0, 1-2=-590/0, 2-3=-1348/0, 3-4=-1530/0, 4-5=-1530/0, 5-6=-1267/0, 6-7=-482/107, 7-8=-451/0, 8-9=-943/0, 9-10=-899/0, 10-11=-899/0, 11-12=-257/0
BOT CHORD 24-25=0/1096, 23-24=0/1595, 22-23=0/1267, 21-22=0/1267, 20-21=0/1267, 19-20=-329/106, 18-19=-320/112, 17-18=0/841, 16-17=0/841, 15-16=0/1018, 14-15=0/669
WEBS 5-22=-294/0, 6-21=0/335, 7-19=-880/0, 1-25=0/713, 2-25=-659/0, 2-24=0/327, 3-24=-321/0, 5-23=0/410, 6-20=-1043/0, 7-20=0/570, 7-18=0/581, 8-18=-544/0, 11-15=0/293, 11-14=-537/0, 12-14=0/429

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

3/24/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0027 CAMPBELL RIDGE | 49 ALDEN WAY ANGIER, NC
25-2455-F02	F208	Floor	1	1	Job Reference (optional) **# 57916**

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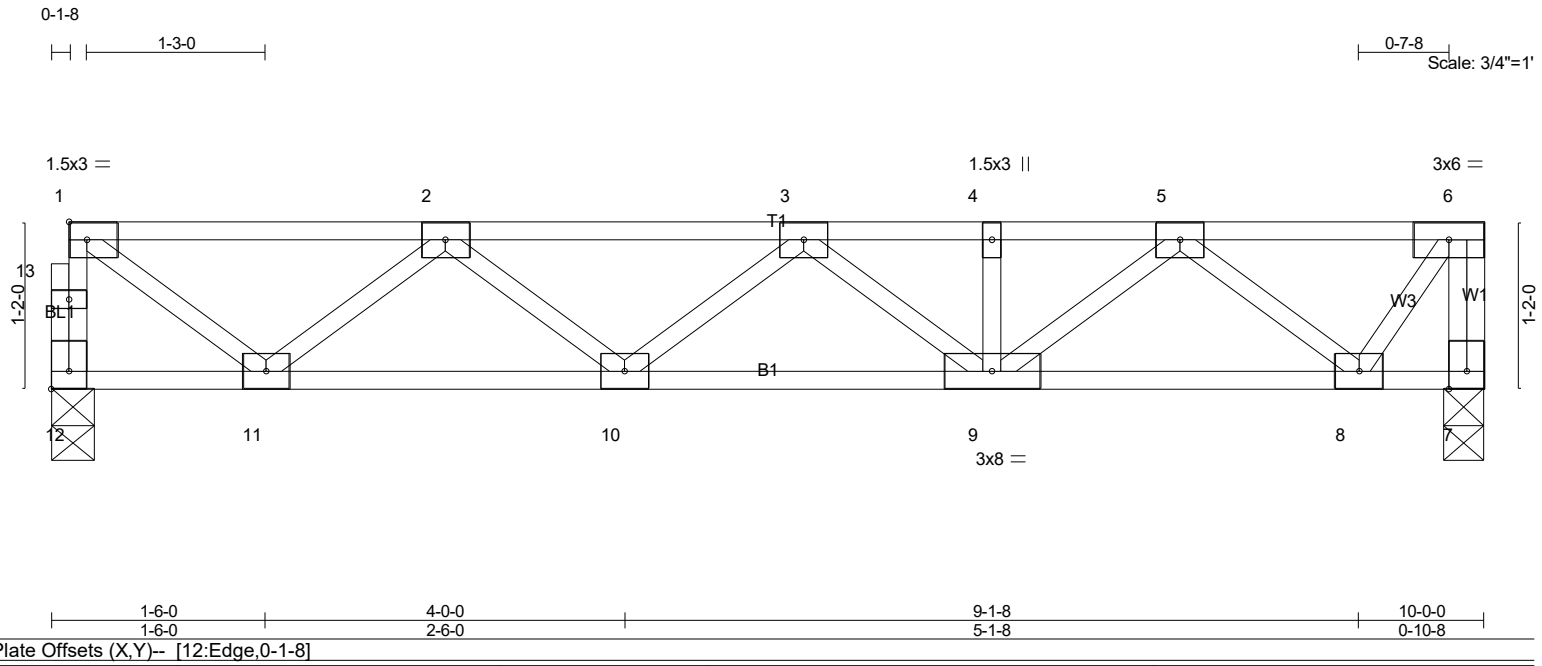

Plate Offsets (X,Y)-- [12:Edge,0-1-8]

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	0.21	Vert(LL)	-0.02	9-10	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.20	Vert(CT)	-0.03	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 54 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) 12=424/0-3-8 (min. 0-1-8), 7=429/0-3-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 12-13=-420/0, 1-13=-419/0, 6-7=-429/0, 1-2=-451/0, 2-3=-940/0, 3-4=-902/0, 4-5=-902/0, 5-6=-261/0
BOT CHORD 10-11=0/837, 9-10=0/1019, 8-9=0/677
WEBS 1-11=0/544, 2-11=-502/0, 5-9=0/287, 5-8=-541/0, 6-8=0/447

NOTES- (4-5)
1) All plates are 3x4 MT20 unless otherwise indicated.
2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
3) CAUTION, Do not erect truss backwards.
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

3/24/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0027 CAMPBELL RIDGE | 49 ALDEN WAY ANGIER, NC
25-2455-F02	F209	Floor	5	1	Job Reference (optional) **# 57916**

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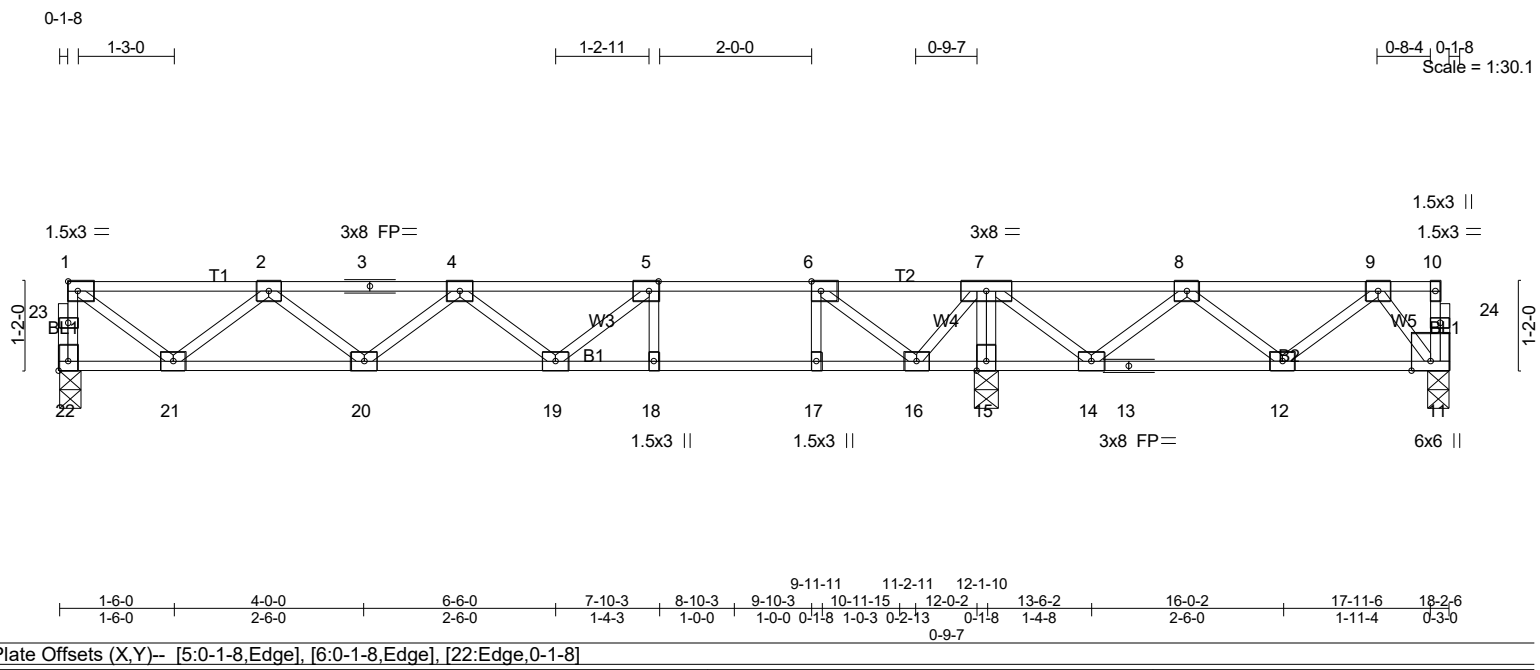

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [6:0-1-8,Edge], [22:Edge,0-1-8]

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	0.62	Vert(LL)	-0.18	18-19	>799	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.96	Vert(CT)	-0.24	18-19	>589	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.02	11	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 93 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:
2-2-0 oc bracing: 17-18
6-0-0 oc bracing: 15-16,14-15.

REACTIONS. (lb/size) 22=535/0-3-6 (min. 0-1-8), 15=752/0-3-8 (min. 0-1-8), 11=281/0-3-8 (min. 0-1-8)
Max Grav 22=539(LC 3), 15=752(LC 1), 11=304(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 22-23=-537/0, 1-23=-536/0, 1-2=-600/0, 2-3=-1375/0, 3-4=-1375/0, 4-5=-1575/0, 5-6=-1328/0, 6-7=-585/0, 7-8=-437/0, 8-9=-416/0
BOT CHORD 20-21=0/1115, 19-20=0/1630, 18-19=0/1328, 17-18=0/1328, 16-17=0/1328, 15-16=-109/284, 14-15=-102/289, 13-14=0/569, 12-13=0/569
WEBS 5-18=-267/0, 6-17=0/307, 7-15=-667/0, 1-21=0/725, 2-21=-671/0, 2-20=0/338, 4-20=-331/0, 5-19=0/345, 6-16=-979/0, 7-16=0/559, 7-14=0/289, 8-14=-262/0, 9-11=-383/0

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

3/24/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0027 CAMPBELL RIDGE | 49 ALDEN WAY ANGIER, NC
25-2455-F02	F210	Floor Supported Gable	1	1	# 57916
					Job Reference (optional)

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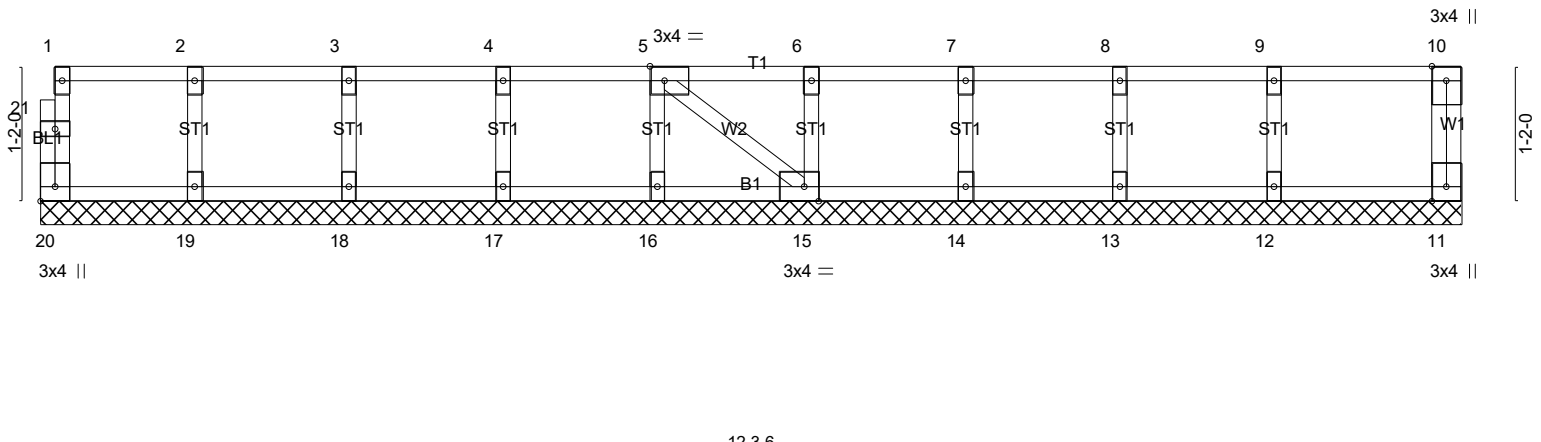

12-3-6
12-3-6

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [15:0-1-8,Edge], [20: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	0.06	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	11	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 55 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 12-3-6.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

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

NOTES- (7-8)
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) 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

3/24/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0027 CAMPBELL RIDGE | 49 ALDEN WAY ANGIER, NC
25-2455-F02	F211	FLOOR GIRDER	1	1	Job Reference (optional) **# 57916**

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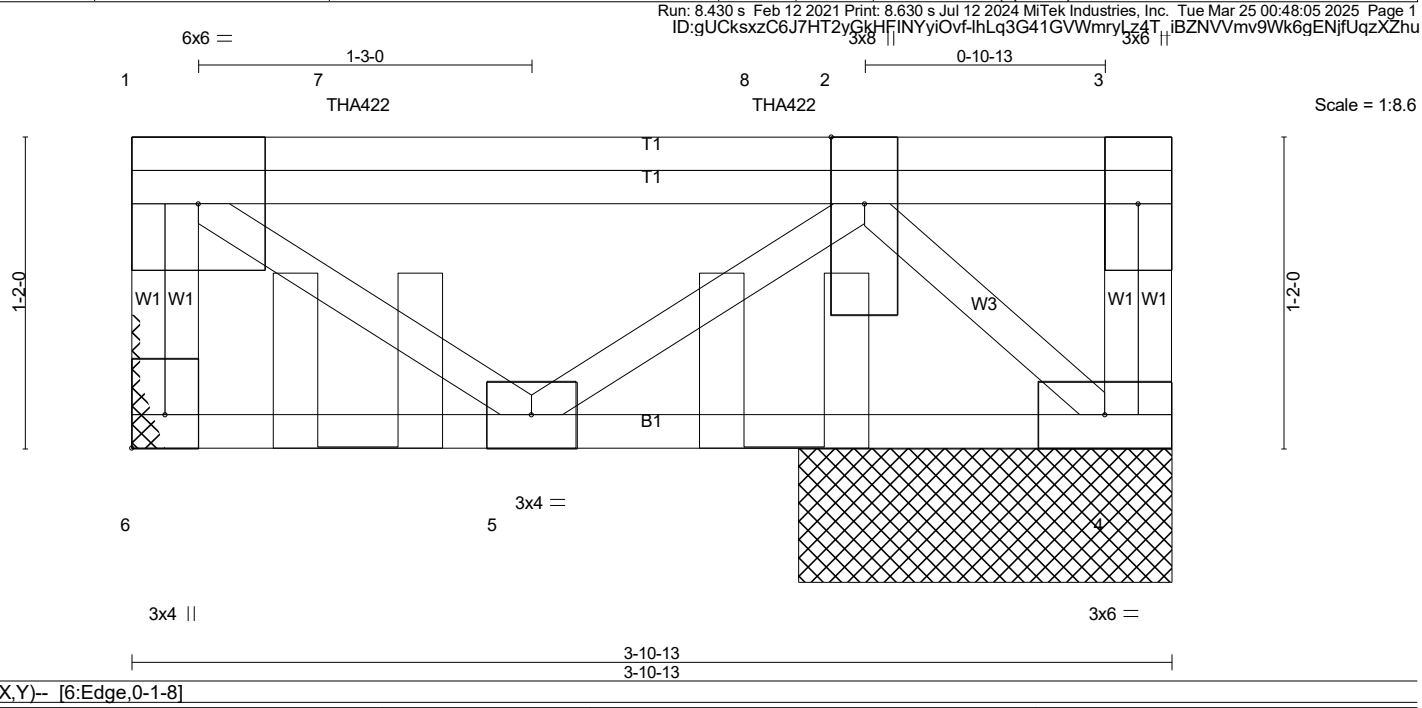

Plate Offsets (X,Y)-- [6:Edge,0-1-8]

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	0.77	Vert(LL)	-0.00	5	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.25	Vert(CT)	-0.01	4-5	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.36	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-P							Weight: 28 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 3-10-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 6=1059/Mechanical, 4=803/1-4-13 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-1053/0, 3-4=0/283, 1-7=-599/0, 7-8=-599/0, 2-8=-599/0
BOT CHORD 4-5=0/1127
WEBS 1-5=0/735, 2-5=-671/0, 2-4=-1558/0

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 1-7-3 oc max. starting at 0-10-3 from the left end to 2-5-6 to connect truss(es) F216 (1 ply 2x4 SP) to back 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=-8, 1-3=-80
Concentrated Loads (lb)
Vert: 7=-772(B) 8=-769(B)

3/24/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0027 CAMPBELL RIDGE | 49 ALDEN WAY ANGIER, NC
25-2455-F02	F212	Floor Supported Gable	1	1	Job Reference (optional) **# 57916**

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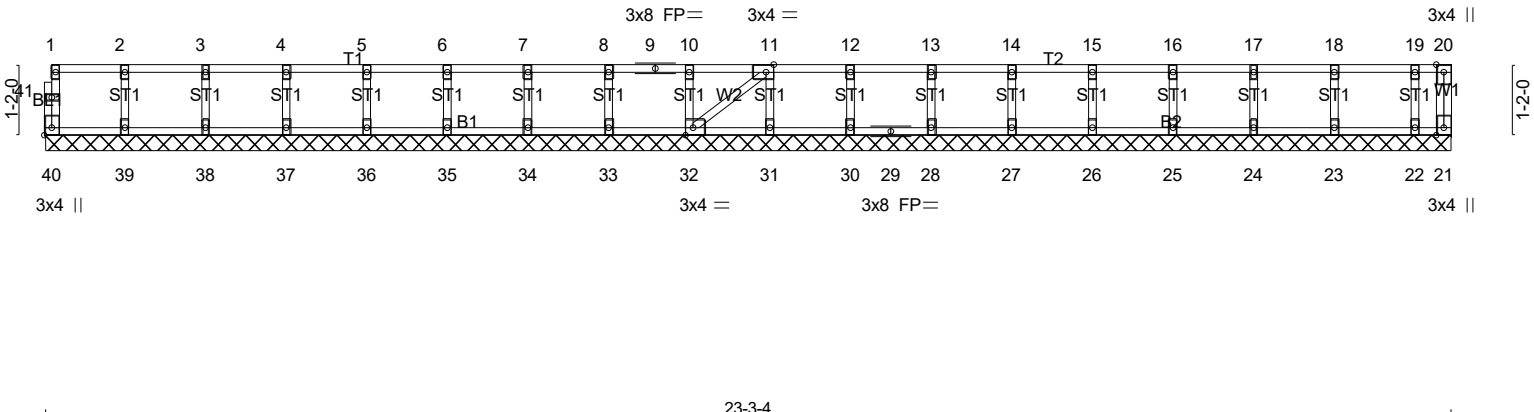

23-3-4
23-3-4

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [32:0-1-8,Edge], [40: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	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	21	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 100 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 23-3-4.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 40, 21, 39, 38, 37, 36, 35, 34, 33, 32, 31, 30, 28, 27, 26, 25, 24, 23, 22

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

NOTES- (7-8)
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) 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

3/24/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0027 CAMPBELL RIDGE | 49 ALDEN WAY ANGIER, NC
25-2455-F02	F213	FLOOR	3	1	Job Reference (optional) **# 57916**

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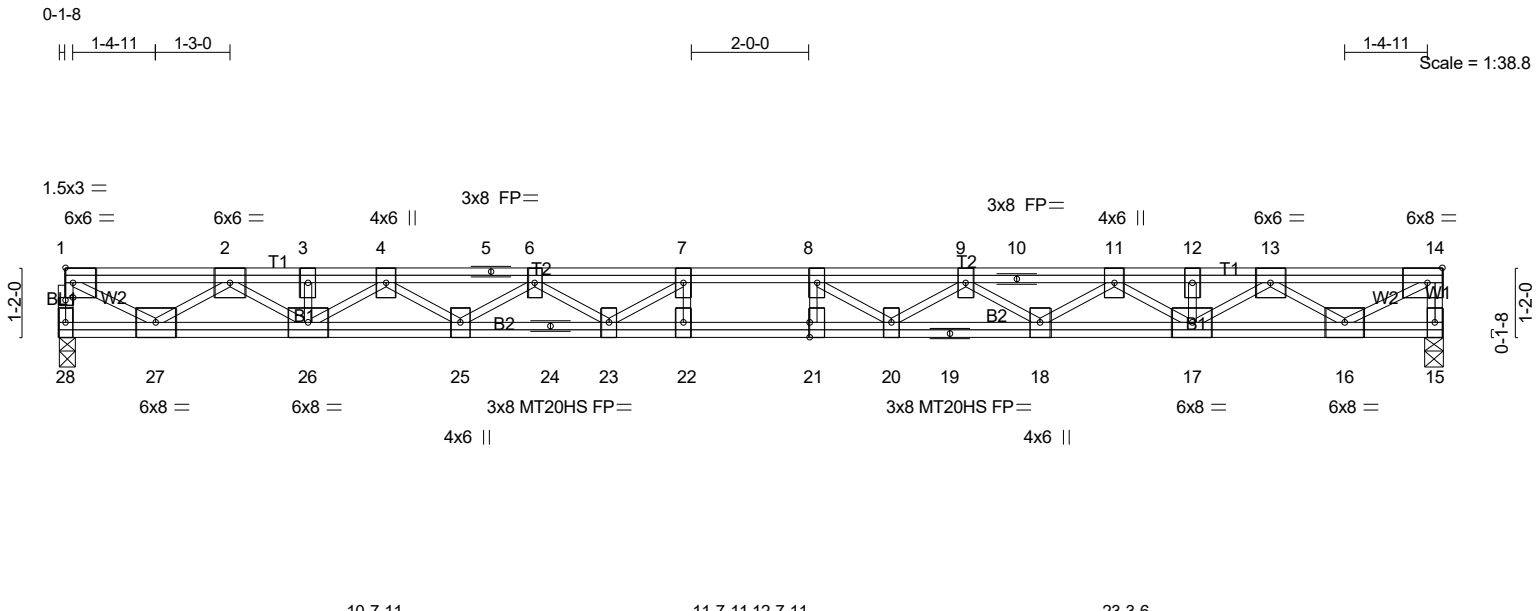

Plate Offsets (X,Y)-- [1:0-1-8,0-0-8], [14:0-3-0,Edge], [21:0-3-0,0-0-0]

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.21	Vert(LL)	-0.42	21-22	>653	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.63	Vert(CT)	-0.58	21-22	>475	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.07	15	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 180 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) 28=1013/0-3-6 (min. 0-1-8), 15=1013/0-3-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-28=-996/0, 14-15=-997/0, 1-2=-1501/0, 2-3=-3651/0, 3-4=-3651/0, 4-5=-5118/0, 5-6=-5118/0, 6-7=-5975/0, 7-8=-6248/0, 8-9=-5975/0, 9-10=-5118/0, 10-11=-5118/0, 11-12=-3651/0, 12-13=-3651/0, 13-14=-1485/0
BOT CHORD 26-27=0/2697, 25-26=0/4521, 24-25=0/5691, 23-24=0/5691, 22-23=0/6248, 21-22=0/6248, 20-21=0/6248, 19-20=0/5691, 18-19=0/5691, 17-18=0/4521, 16-17=0/2697
WEBS 7-23=-678/135, 6-23=0/527, 6-25=-711/0, 4-25=0/740, 4-26=-1061/0, 2-26=0/1163, 2-27=-1485/0, 1-27=0/1743, 8-20=-678/135, 9-20=0/527, 9-18=-711/0, 11-18=0/740, 11-17=-1061/0, 13-17=0/1163, 13-16=-1503/0, 14-16=0/1735

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 3x6 MT20 unless otherwise indicated.
4) 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.
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

3/24/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0027 CAMPBELL RIDGE | 49 ALDEN WAY ANGIER, NC
25-2455-F02	F214	FLOOR	8	1	Job Reference (optional) **# 57916**

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Mar 25 00:48:06 2025 Page 1
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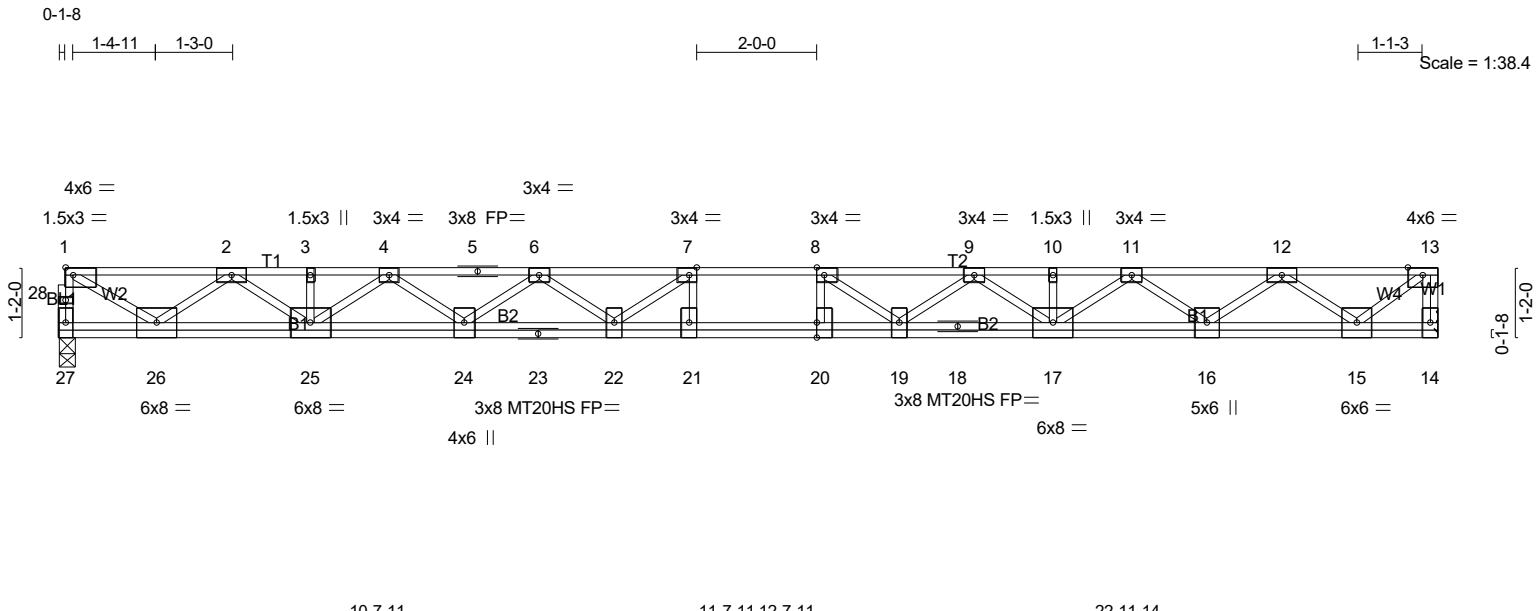


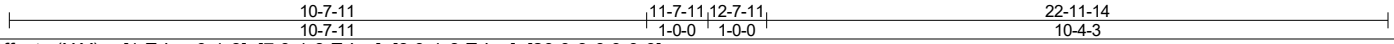


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [7:0-1-8,Edge], [8:0-1-8,Edge], [20:0-3-0,0-0-0]

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.76	Vert(LL)	-0.50	20-21	>548	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.40	Vert(CT)	-0.68	20-21	>399	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.05	14	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 147 lb	FT = 20%F, 11%E

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

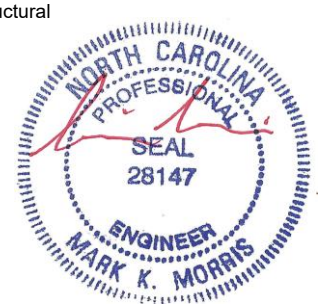
BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-5-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 27=995/0-3-6 (min. 0-1-8), 14=1000/Mechanical

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 27-28=-978/0, 1-28=-977/0, 13-14=-984/0, 1-2=-1379/0, 2-3=-3366/0, 3-4=-3366/0, 4-5=-4723/0, 5-6=-4723/0, 6-7=-5476/0, 7-8=-5728/0, 8-9=-5411/0, 9-10=-4584/0, 10-11=-4584/0, 11-12=-3122/0, 12-13=-1131/0
BOT CHORD 25-26=0/2500, 24-25=0/4178, 23-24=0/5235, 22-23=0/5235, 21-22=0/5728, 20-21=0/5728, 19-20=0/5728, 18-19=0/5131, 17-18=0/5131, 16-17=0/3948, 15-16=0/2272
WEBS 7-21=-259/279, 8-20=-234/305, 7-22=-675/158, 6-22=0/437, 6-24=-651/0, 4-24=0/691, 4-25=-1013/0, 2-25=0/1081, 2-26=-1423/0, 1-26=0/1588, 8-19=-727/102, 9-19=0/468, 9-17=-682/0, 11-17=0/794, 11-16=-1049/0, 12-16=0/1079, 12-15=-1450/0, 13-15=0/1448

NOTES- (7-8)
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x6 MT20 unless otherwise indicated.
4) Refer to girder(s) for truss to truss connections.
5) 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.
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



3/24/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0027 CAMPBELL RIDGE | 49 ALDEN WAY ANGIER, NC
25-2455-F02	F215	FLOOR GIRDER	1	2	Job Reference (optional) **# 57916**

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Mar 25 00:48:06 2025 Page 1
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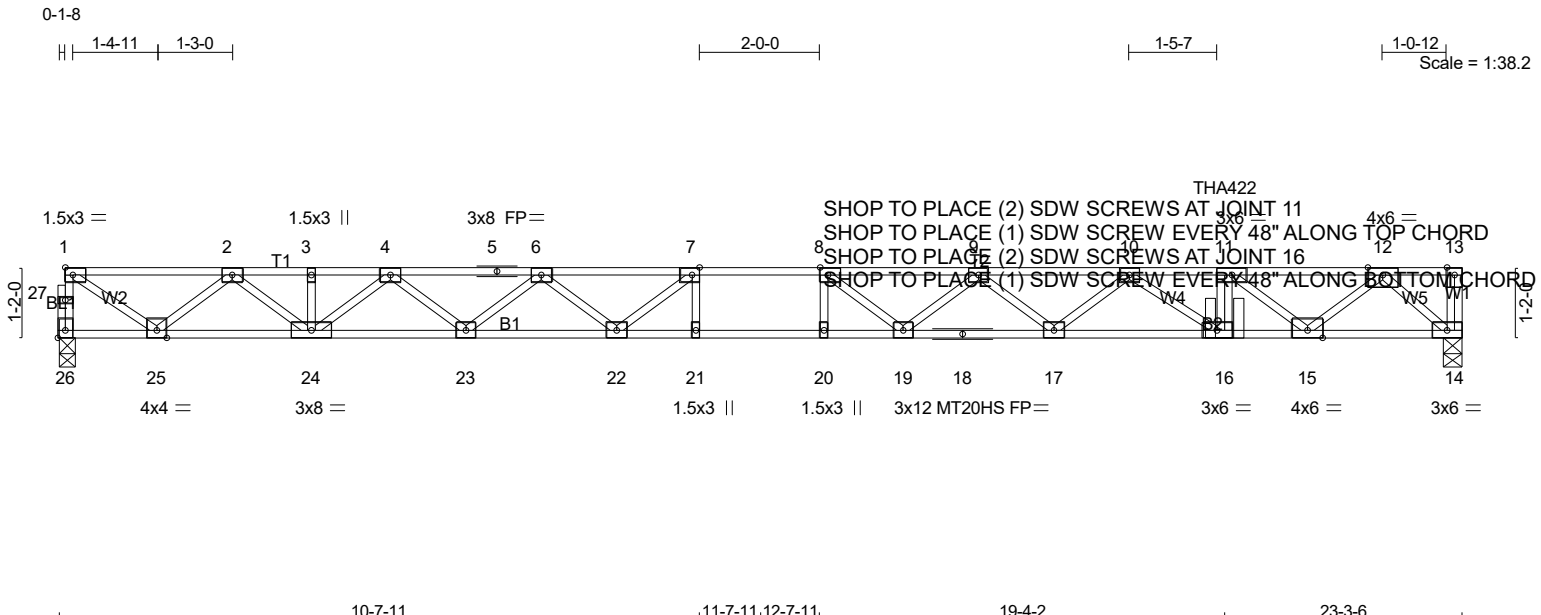

Plate Offsets (X,Y)-- [7:0-1-8,Edge], [8:0-1-8,Edge], [26:Edge,0-1-8]

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	0.62	Vert(LL)	-0.45	20	>614	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.76	Vert(CT)	-0.62	19-20	>444	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	NO	WB	0.60	Horz(CT)	0.08	14	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 236 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.

REACTIONS. (lb/size) 26=1173/0-3-6 (min. 0-1-8), 14=1843/0-3-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 26-27=-1167/0, 1-27=-1165/0, 1-2=-1569/0, 2-3=-3885/0, 3-4=-3885/0, 4-5=-5599/0, 5-6=-5599/0, 6-7=-6755/0, 7-8=-7372/0, 8-9=-7494/0, 9-10=-7137/0, 10-11=-6133/0, 11-12=-4018/0
BOT CHORD 24-25=0/2839, 23-24=0/4880, 22-23=0/6279, 21-22=0/7372, 20-21=0/7372, 19-20=0/7372, 18-19=0/7471, 17-18=0/7471, 16-17=0/6785, 15-16=0/6133, 14-15=0/2068
WEBS 11-16=0/438, 7-21=0/406, 8-20=-378/2, 7-22=-1118/0, 6-22=0/778, 6-23=-885/0, 4-23=0/936, 4-24=-1270/0, 2-24=0/1335, 2-25=-1652/0, 1-25=0/1845, 8-19=-150/601, 9-17=-434/0, 10-17=0/458, 10-16=-782/0, 11-15=-2654/0, 12-15=0/2537, 12-14=-2751/0

NOTES- (10-11)
1) Fasten trusses together to act as a single unit as per standard industry detail, or loads are to be evenly applied to all plies.
2) Unbalanced floor live loads have been considered for this design.
3) All plates are MT20 plates unless otherwise indicated.
4) All plates are 3x4 MT20 unless otherwise indicated.
5) 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.
6) CAUTION, Do not erect truss backwards.
7) Use Simpson Strong-Tie THA422 (Single Chord Girder) or equivalent at 19-4-2 from the left end to connect truss(es) F211 (1 ply 2x4 SP) to back face of top chord.
8) Fill all nail holes where hanger is in contact with lumber.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
10) 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.
11) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 14-26=-8, 1-13=-80

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Continued on page 2

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 11=-996(B)

3/24/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0027 CAMPBELL RIDGE | 49 ALDEN WAY ANGIER, NC
25-2455-F02	F216	Floor	2	1	# 57916
					Job Reference (optional)

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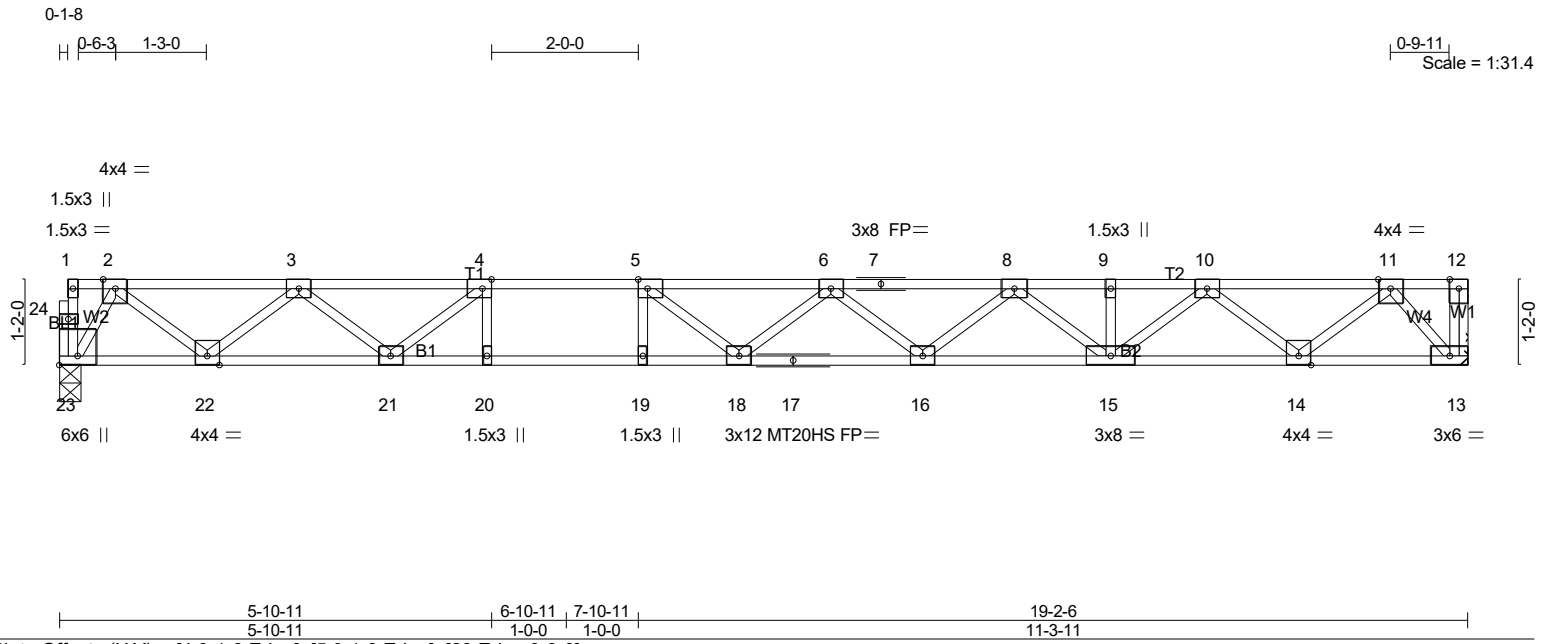


Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [23:Edge,0-3-0]

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.88	Vert(LL)	-0.40	18-19	>575	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.93	Vert(CT)	-0.54	18-19	>418	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.06	13	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 97 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)

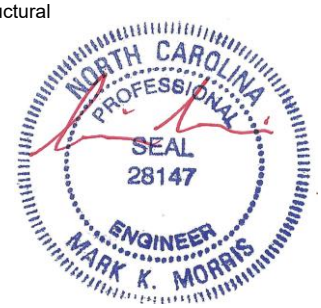
BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
2-2-0 oc bracing: 19-20.

REACTIONS. (lb/size) 23=828/0-3-6 (min. 0-1-8), 13=833/Mechanical

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1336/0, 3-4=-2669/0, 4-5=-3450/0, 5-6=-3738/0, 6-7=-3556/0, 7-8=-3556/0, 8-9=-2838/0, 9-10=-2838/0, 10-11=-1514/0
BOT CHORD 22-23=0/534, 21-22=0/2092, 20-21=0/3450, 19-20=0/3450, 18-19=0/3450, 17-18=0/3812, 16-17=0/3812, 15-16=0/3296, 14-15=0/2268, 13-14=0/736
WEBS 4-20=0/378, 5-19=-352/0, 4-21=-1051/0, 3-21=0/751, 3-22=-984/0, 2-22=0/1044, 2-23=-1025/0, 5-18=-125/535, 6-16=-333/0, 8-16=0/339, 8-15=-584/0, 10-15=0/728, 10-14=-982/0, 11-14=0/1012, 11-13=-1104/0

NOTES- (7-8)
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) 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



3/24/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0027 CAMPBELL RIDGE | 49 ALDEN WAY ANGIER, NC
25-2455-F02	F217	Floor	4	1	Job Reference (optional) **# 57916**

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Mar 25 00:48:07 2025 Page 1
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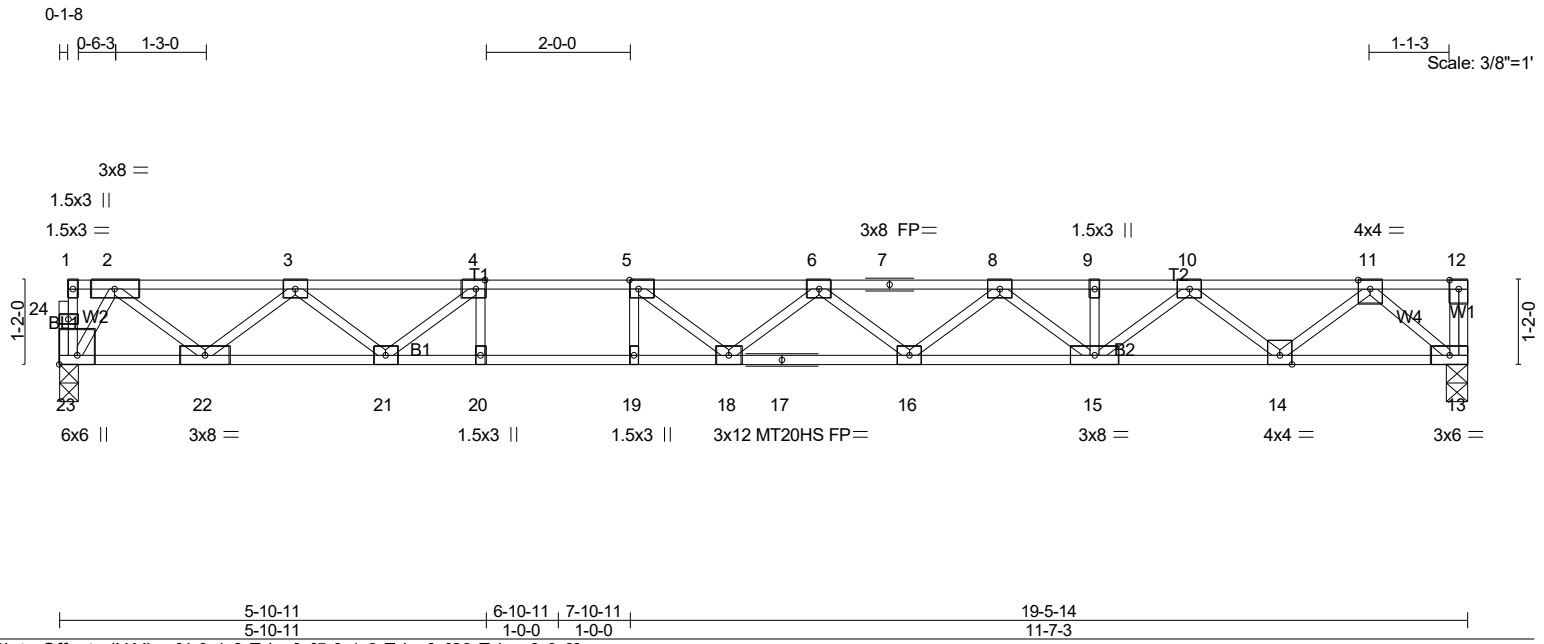

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [23:Edge,0-3-0]

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.93	Vert(LL)	-0.42	18-19	>550	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.96	Vert(CT)	-0.58	18-19	>400	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.07	13	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 98 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 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
2-2-0 oc bracing: 19-20.

REACTIONS. (lb/size) 23=841/0-3-6 (min. 0-1-8), 13=846/0-3-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1359/0, 3-4=-2723/0, 4-5=-3533/0, 5-6=-3850/0, 6-7=-3699/0, 7-8=-3699/0, 8-9=-3013/0, 9-10=-3013/0, 10-11=-1720/0
BOT CHORD 22-23=0/543, 21-22=0/2129, 20-21=0/3533, 19-20=0/3533, 18-19=0/3533, 17-18=0/3941, 16-17=0/3941, 15-16=0/3453, 14-15=0/2459, 13-14=0/956
WEBS 4-20=0/393, 5-19=-366/0, 4-21=-1085/0, 3-21=0/773, 3-22=-1001/0, 2-22=0/1063, 2-23=-1042/0, 5-18=-111/569, 6-16=-315/0, 8-16=0/320, 8-15=-563/0, 10-15=0/707, 10-14=-962/0, 11-14=0/995, 11-13=-1255/0

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) 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

3/24/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0027 CAMPBELL RIDGE | 49 ALDEN WAY ANGIER, NC
25-2455-F02	F218	Floor	13	1	Job Reference (optional) **# 57916**

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Mar 25 00:48:07 2025 Page 1
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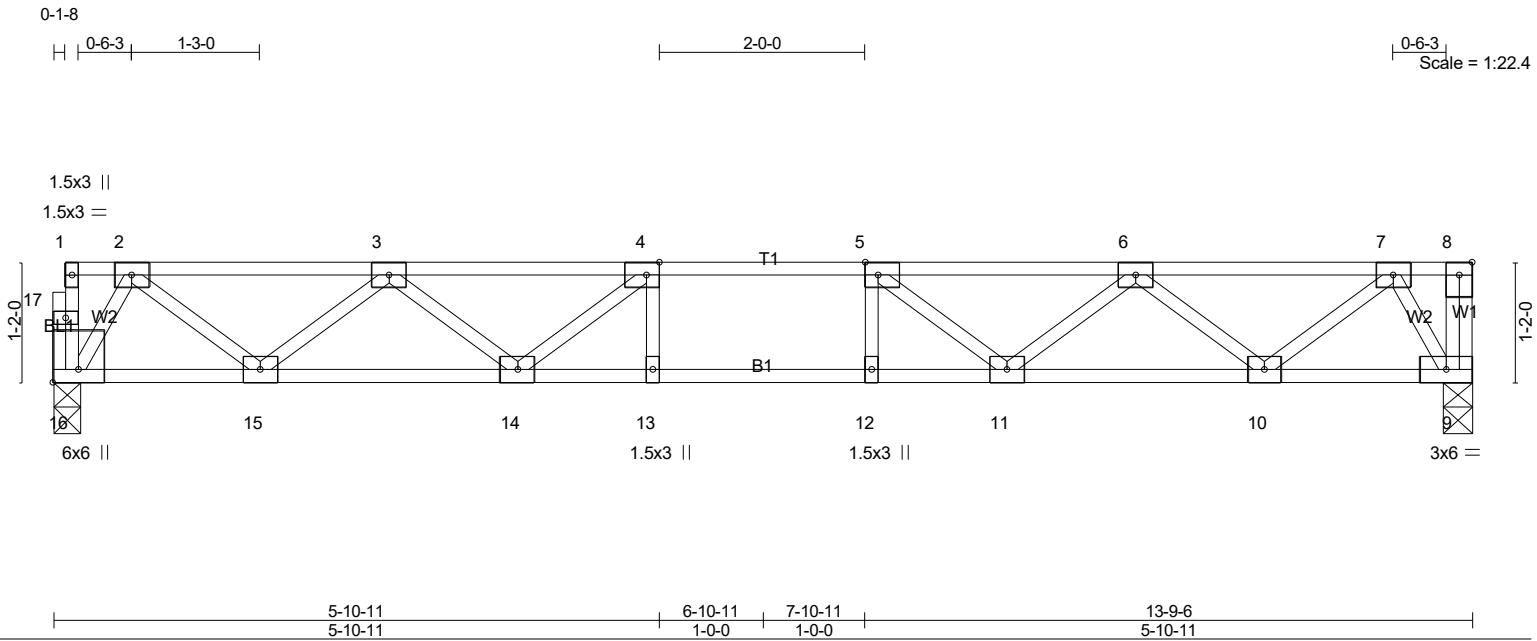

5-10-11	6-10-11	7-10-11	13-9-6
5-10-11	1-0-0	1-0-0	5-10-11

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [16:Edge,0-3-0]

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.26	Vert(LL)	-0.09	11-12	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.52	Vert(CT)	-0.12	11-12	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.03	9	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 70 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) 16=590/0-3-6 (min. 0-1-8), 9=595/0-3-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-906/0, 3-4=-1665/0, 4-5=-1910/0, 5-6=-1665/0, 6-7=-906/0
BOT CHORD 15-16=0/376, 14-15=0/1413, 13-14=0/1910, 12-13=0/1910, 11-12=0/1910, 10-11=0/1413, 9-10=0/376
WEBS 4-14=-428/0, 3-14=0/355, 3-15=-660/0, 2-15=0/690, 2-16=-720/0, 5-11=-428/0, 6-11=0/355, 6-10=-660/0, 7-10=0/690, 7-9=-717/0

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

3/24/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0027 CAMPBELL RIDGE | 49 ALDEN WAY ANGIER, NC
25-2455-F02	F219	Floor Supported Gable	1	1	Job Reference (optional) **# 57916**

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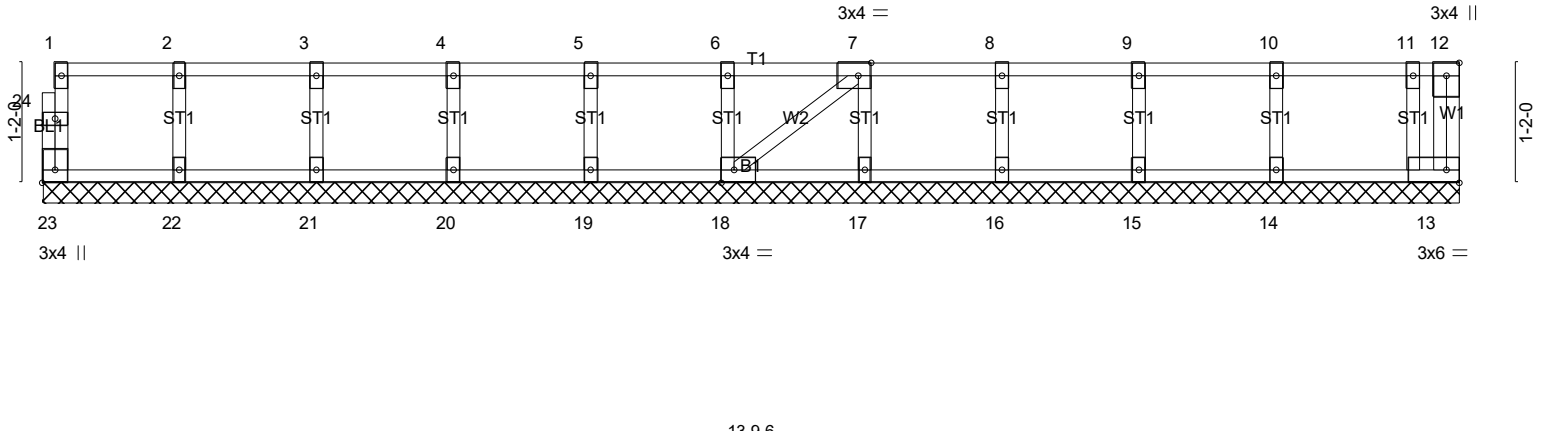
0-1-8

Scale = 1:22.4



13-9-6
13-9-6

Plate Offsets (X,Y)-- [7:0-1-8,Edge], [18:0-1-8,Edge], [23: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	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	13	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 62 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 13-9-6.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 23, 13, 22, 21, 20, 19, 18, 17, 16, 15, 14

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

NOTES- (7-8)
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) 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

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0027 CAMPBELL RIDGE | 49 ALDEN WAY ANGIER, NC
25-2455-F02	F220	Floor	12	1	Job Reference (optional) **# 57916**

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Mar 25 00:48:08 2025 Page 1
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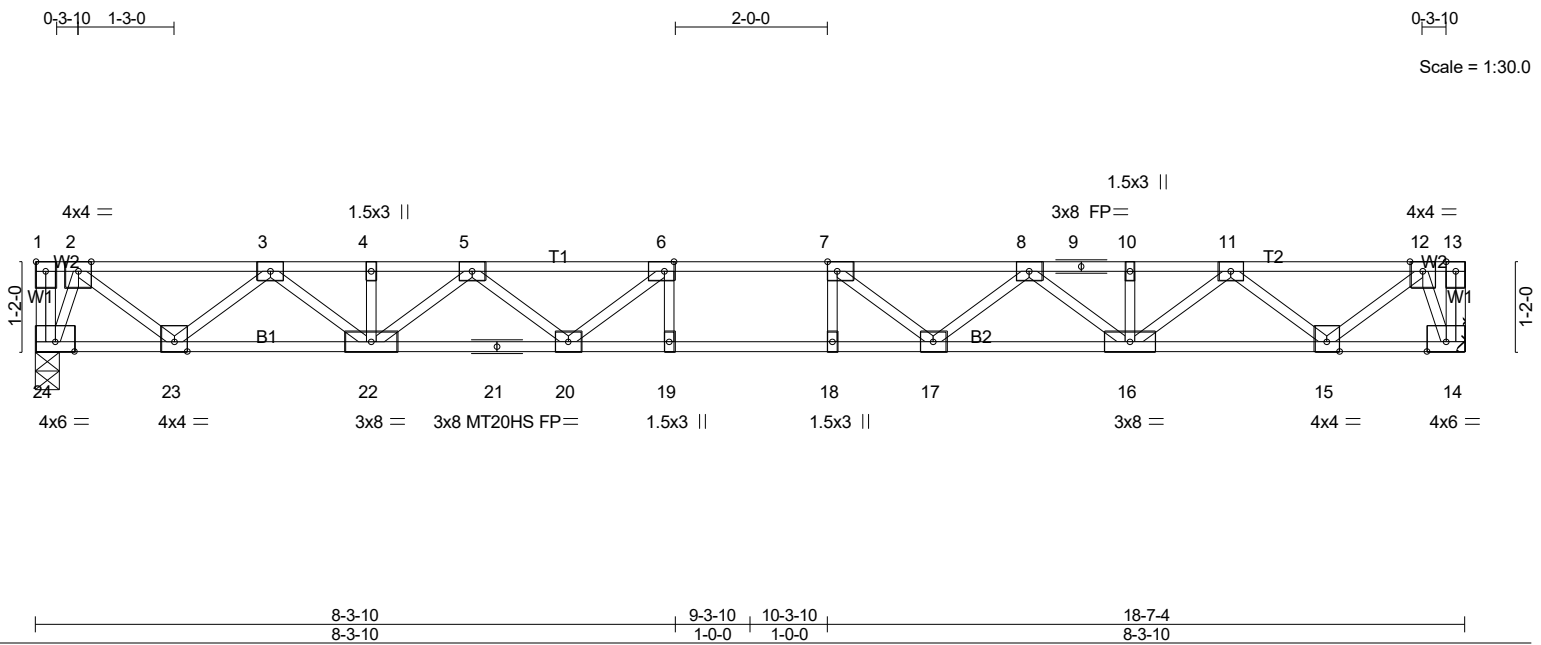

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [6:0-1-8,Edge], [7:0-1-8,Edge]

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	0.42	Vert(LL)	-0.26	18-19	>832	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.84	Vert(CT)	-0.37	18-19	>603	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.06	14	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 97 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) 24=807/0-3-8 (min. 0-1-8), 14=807/Mechanical

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1153/0, 3-4=-2517/0, 4-5=-2517/0, 5-6=-3276/0, 6-7=-3528/0, 7-8=-3276/0, 8-9=-2517/0, 9-10=-2517/0, 10-11=-2517/0, 11-12=-1153/0
BOT CHORD 23-24=0/357, 22-23=0/1927, 21-22=0/3018, 20-21=0/3018, 19-20=0/3528, 18-19=0/3528, 17-18=0/3528, 16-17=0/3018, 15-16=0/1927, 14-15=0/357
WEBS 6-20=-540/18, 5-20=0/429, 5-22=-640/0, 3-22=0/753, 3-23=-1007/0, 2-23=0/1036, 2-24=-942/0, 7-17=-540/18, 8-17=0/429, 8-16=-640/0, 11-16=0/753, 11-15=-1007/0, 12-15=0/1036, 12-14=-942/0

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

3/24/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0027 CAMPBELL RIDGE | 49 ALDEN WAY ANGIER, NC
25-2455-F02	F221	Floor Supported Gable	1	1	Job Reference (optional) **# 57916**

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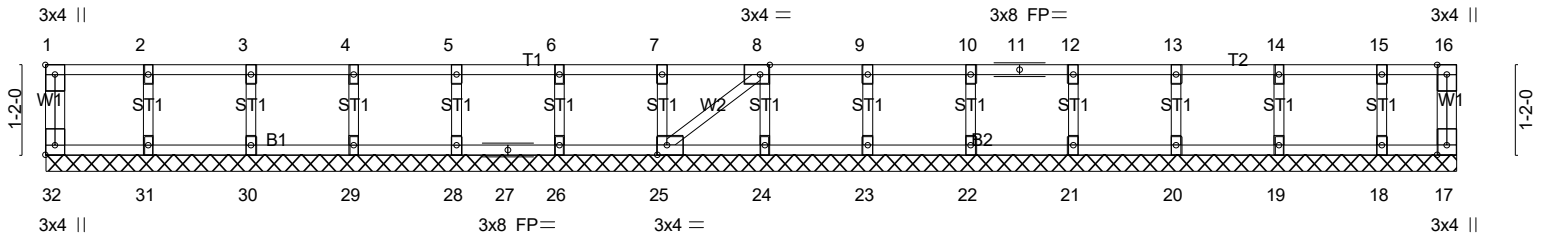

18-3-10
18-3-10

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [8:0-1-8,Edge], [25:0-1-8,Edge], [32: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	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	25	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 80 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 10-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 18-3-10.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 32, 17, 31, 30, 29, 28, 26, 25, 24, 23, 22, 21, 20, 19, 18

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

3/24/2025