Mark Morris, P.E.

#126, 1317-M, Summerville, SC 29483
843 209-5784, Fax (866)-213-4614

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

AST #: 44394
JOB: 23-B625-F01
JOB NAME: LOT 0.0097 BLAKE POND
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.
25 Truss Design(s)

Trusses:
F101, F102, F103, F104, F105, F106, F107, F108, F109, F110, F111, F112, F113, F114, F115, F116, F117, F117A, F118, F119, F120, F121, F122, F123, F124

1/22/2024
Mark Morris

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*

Job	Truss	Truss Type	Qty	Ply	LOT 0.0097 BLAKE POND | 109 WHIMBREL COURT LILLINGTON, NC
23-B625-F01	F101	Floor Supported Gable	1	1	Job Reference (optional) **# 44394**

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0-1-8

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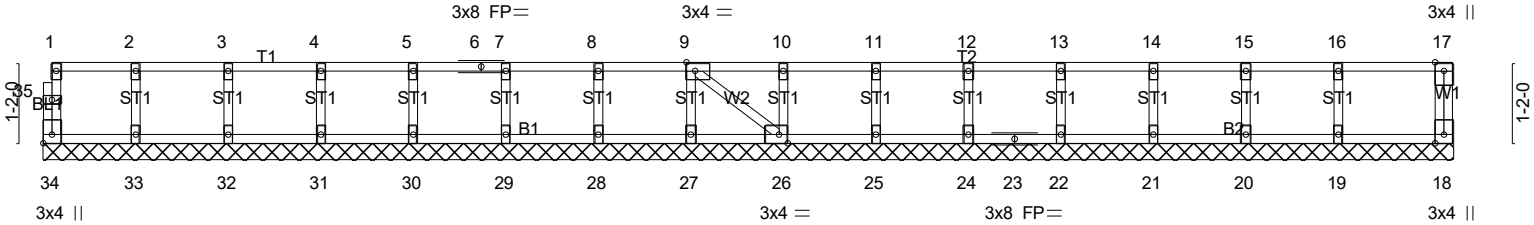

20-3-12
20-3-12

Plate Offsets (X,Y)-- [9:0-1-8,Edge], [26:0-1-8,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	0.08	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	0.04	Horz(CT)	0.00	18	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 87 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 20-3-12.
(lb) - 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)
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

1/22/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0097 BLAKE POND | 109 WHIMBREL COURT LILLINGTON, NC
23-B625-F01	F102	Floor	9	1	Job Reference (optional) **# 44394**

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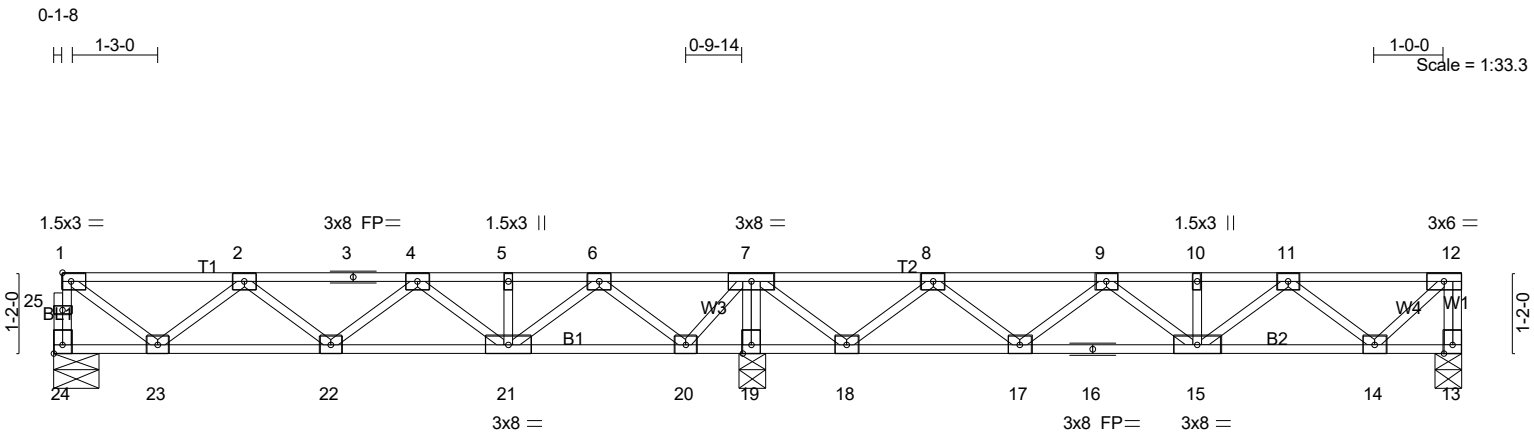

1-6-0	4-0-0	9-1-8	10-0-14	11-5-6	13-11-6	19-0-14	20-3-14
1-6-0	2-6-0	5-1-8	0-11-6	1-4-8	2-6-0	5-1-8	1-3-0

Plate Offsets (X,Y)-- [24: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	0.22	Vert(LL)	-0.02	15-17	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.13	Vert(CT)	-0.02	15-17	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.00	13	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 107 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 6-0-0 oc bracing.

REACTIONS. (lb/size) 24=274/0-7-14 (min. 0-1-8), 13=286/0-4-8 (min. 0-1-8), 19=907/0-4-8 (min. 0-1-8)
Max Grav 24=306(LC 3), 13=317(LC 4), 19=907(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 24-25=-303/0, 1-25=-303/0, 12-13=-314/0, 1-2=-314/0, 2-3=-610/0, 3-4=-610/0, 4-5=-464/121, 5-6=-464/121, 6-7=0/453, 7-8=0/329, 8-9=-507/88, 9-10=-641/0, 10-11=-641/0, 11-12=-269/0
BOT CHORD 22-23=0/580, 21-22=-34/620, 20-21=-254/216, 19-20=-782/0, 18-19=-773/0, 17-18=-192/334, 16-17=-5/658, 15-16=-5/658, 14-15=0/552
WEBS 7-19=-885/0, 1-23=0/378, 2-23=-346/0, 6-21=0/377, 6-20=-553/0, 7-20=0/486, 7-18=0/588, 8-18=-548/0, 8-17=0/275, 11-14=-368/0, 12-14=0/367

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

1/22/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0097 BLAKE POND | 109 WHIMBREL COURT LILLINGTON, NC
23-B625-F01	F103	Floor	1	1	# 44394
					Job Reference (optional)

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0-1-8
1-3-0
0-9-14
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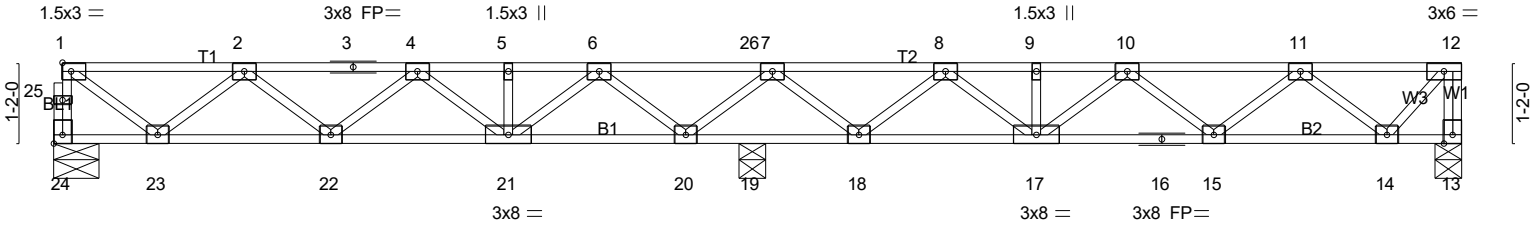

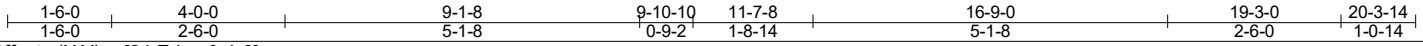

Plate Offsets (X,Y)-- [24:Edge,0-1-8]

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	0.18	Vert(LL)	-0.11	20-21	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.85	Vert(CT)	-0.15	20-21	>822	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.02	13	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 105 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) 24=386/0-7-14 (min. 0-1-8), 13=396/0-4-8 (min. 0-1-8), 19=686/0-4-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 24-25=-385/0, 1-25=-384/0, 12-13=-397/0, 1-2=-422/0, 2-3=-895/0, 3-4=-895/0, 4-5=-987/0, 5-6=-987/0, 6-26=-366/0, 7-26=-366/0, 7-8=-552/0, 8-9=-1040/0, 9-10=-1040/0, 10-11=-866/0, 11-12=-310/0
BOT CHORD 22-23=0/776, 21-22=0/1023, 20-21=0/757, 19-20=0/565, 18-19=0/565, 17-18=0/877, 16-17=0/1038, 15-16=0/1038, 14-15=0/696
WEBS 1-23=0/509, 2-23=-461/0, 6-21=0/295, 6-20=-508/0, 7-20=-338/17, 8-18=-424/0, 11-14=-502/0, 12-14=0/461

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

1/22/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0097 BLAKE POND | 109 WHIMBREL COURT LILLINGTON, NC
23-B625-F01	F104	GABLE	1	1	# 44394
					Job Reference (optional)

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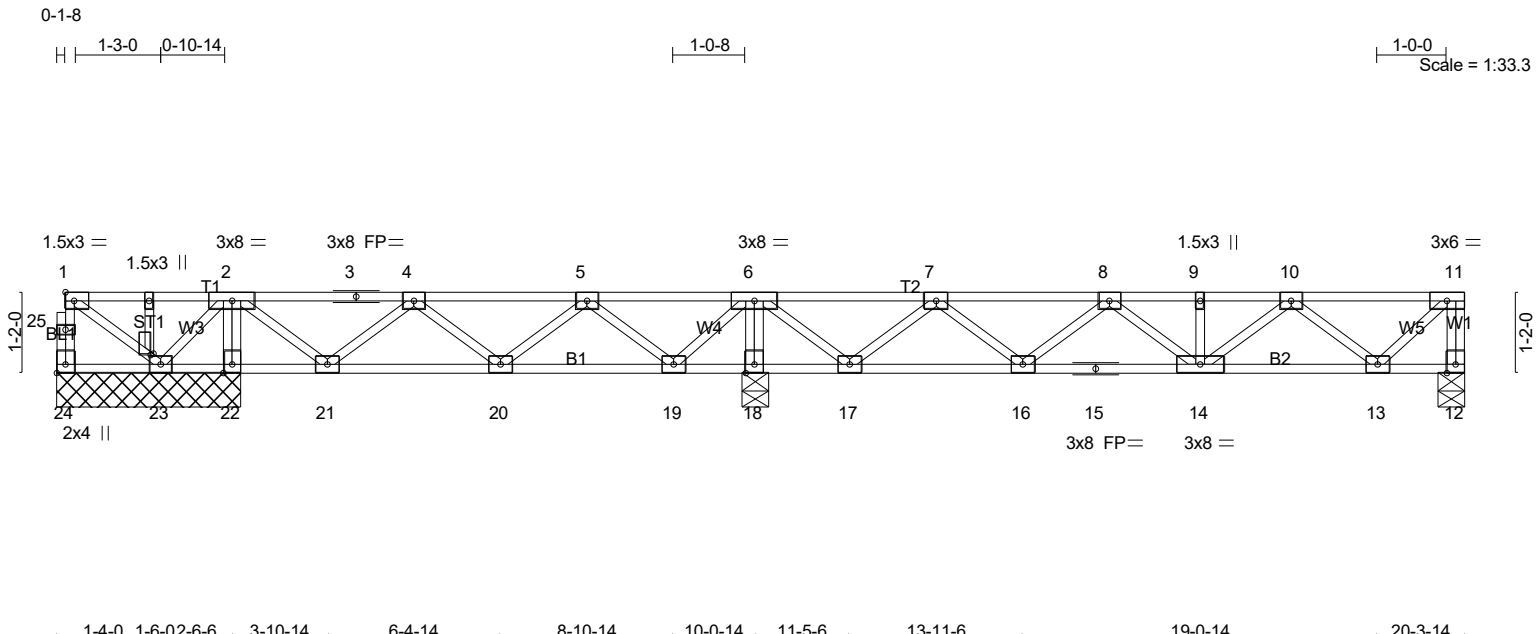


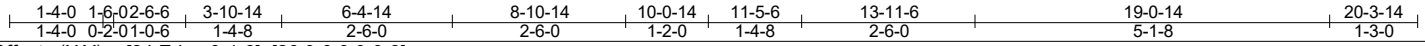


Plate Offsets (X,Y)-- [24:Edge,0-1-8], [26:0-0-3,0-0-8]

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	0.20	Vert(LL)	-0.02	14-16	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.13	Vert(CT)	-0.02	14-16	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.00	12	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 109 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)

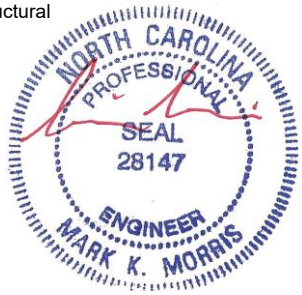
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
10-0-0 oc bracing: 14-16,13-14,12-13.

REACTIONS. All bearings 2-7-14 except (jt=length) 12=0-4-8, 18=0-4-8.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) 24, 23
Max Grav All reactions 250 lb or less at joint(s) 24, 23 except 12=317(LC 5), 22=444(LC 3), 18=783(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 11-12=-315/0, 5-6=0/361, 7-8=-512/0, 8-9=-644/0, 9-10=-644/0, 10-11=-270/0
BOT CHORD 20-21=-45/250, 18-19=-600/0, 17-18=-596/0, 16-17=-27/341, 15-16=0/663, 14-15=0/663, 13-14=0/554
WEBS 2-22=-431/0, 6-18=-764/0, 2-21=-47/289, 4-21=-258/67, 5-19=-385/0, 6-19=0/380, 6-17=0/560, 7-17=-519/0, 10-13=-369/0, 11-13=0/368

NOTES- (7-8)
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Gable studs spaced at 1-4-0 oc.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 24, 23.
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



1/22/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0097 BLAKE POND | 109 WHIMBREL COURT LILLINGTON, NC
23-B625-F01	F105	Floor	2	1	Job Reference (optional) **# 44394**

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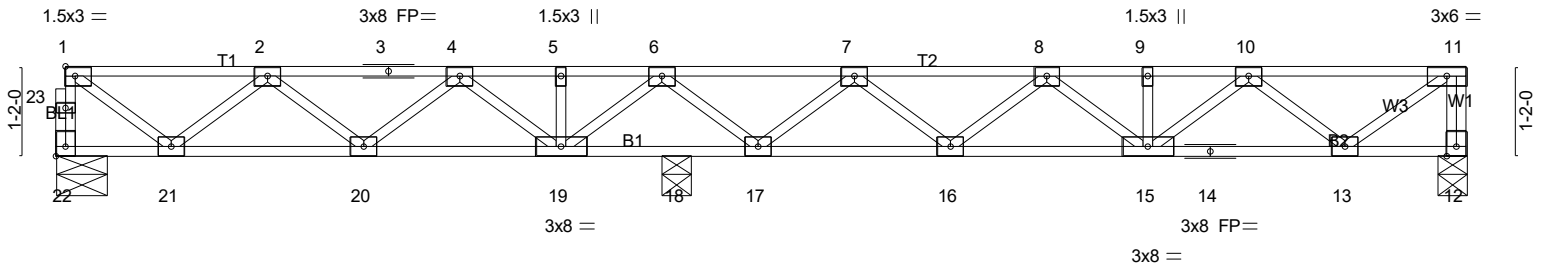
0-1-8
1-3-0
1-3-14
Scale = 1:29.9



1-6-0	4-0-0	7-10-10	9-1-8	11-7-8	16-9-0	18-3-14
1-6-0	2-6-0	3-10-10	1-2-14	2-6-0	5-1-8	1-6-14

Plate Offsets (X,Y)-- [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	0.24	Vert(LL)	-0.12	16-17	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.88	Vert(CT)	-0.16	16-17	>765	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.02	12	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 95 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) 22=422/0-7-14 (min. 0-1-8), 12=506/0-4-8 (min. 0-1-8), 18=657/0-4-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 22-23=-410/0, 1-23=-410/0, 11-12=-503/0, 1-2=-439/0, 2-3=-962/0, 3-4=-962/0, 4-5=-780/0, 5-6=-780/0, 6-7=-771/0, 7-8=-1378/0, 8-9=-1252/0, 9-10=-1252/0, 10-11=-576/0
BOT CHORD 20-21=0/842, 19-20=0/970, 18-19=0/878, 17-18=0/878, 16-17=0/1201, 15-16=0/1423, 14-15=0/1044, 13-14=0/1044
WEBS 1-21=0/529, 2-21=-525/0, 6-19=-282/132, 7-17=-566/0, 10-15=0/266, 10-13=-609/0, 11-13=0/709

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

1/22/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0097 BLAKE POND | 109 WHIMBREL COURT LILLINGTON, NC
23-B625-F01	F106	Floor	7	1	Job Reference (optional) **# 44394**

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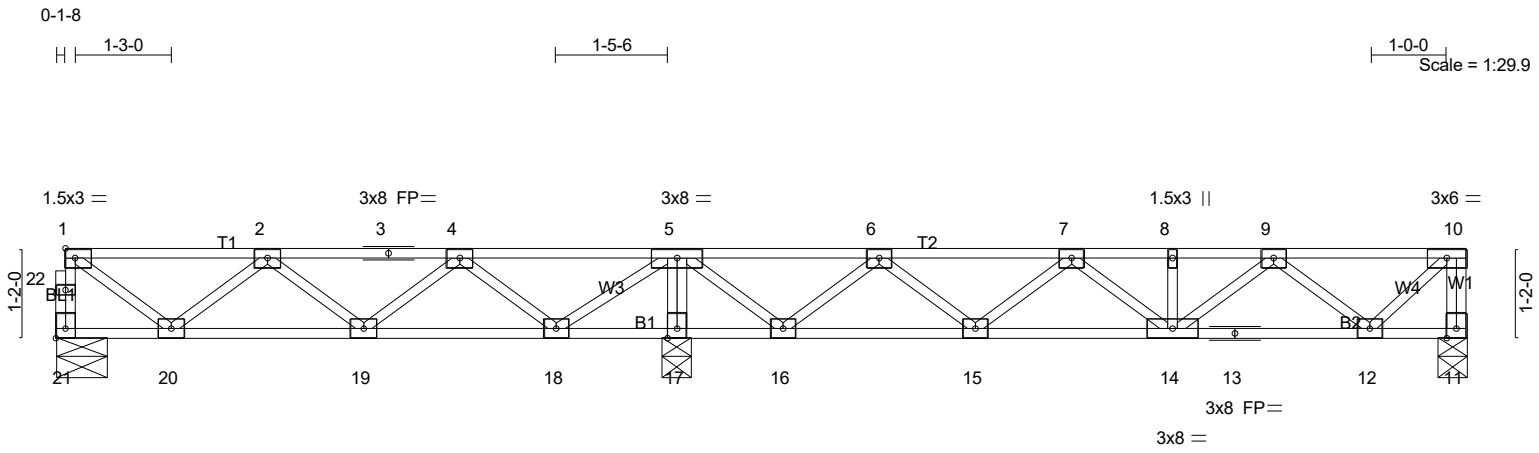

1-6-0	4-0-0	6-6-0	8-0-14	9-5-6	11-11-6	17-0-14	18-3-14
1-6-0	2-6-0	2-6-0	1-6-14	1-4-8	2-6-0	5-1-8	1-3-0

Plate Offsets (X,Y)-- [21: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)	-0.02	14-15	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.16	Vert(CT)	-0.03	14-15	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 96 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 6-0-0 oc bracing.

REACTIONS. (lb/size) 21=238/0-7-14 (min. 0-1-8), 11=361/0-4-8 (min. 0-1-8), 17=985/0-4-8 (min. 0-1-8)
Max Grav 21=290(LC 3), 11=381(LC 4), 17=985(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 21-22=-286/0, 1-22=-286/0, 10-11=-378/0, 1-2=-273/8, 2-3=-454/121, 3-4=-454/121, 4-5=-58/381, 6-7=-618/0, 7-8=-774/0, 8-9=-774/0, 9-10=-325/0
BOT CHORD 19-20=-35/497, 18-19=-233/386, 17-18=-748/0, 16-17=-753/0, 15-16=-81/413, 14-15=0/797, 13-14=0/665, 12-13=0/665
WEBS 5-17=-961/0, 1-20=-10/327, 2-20=-292/36, 4-18=-495/0, 5-18=0/590, 5-16=0/675, 6-16=-623/0, 6-15=0/304, 7-15=-270/0, 9-12=-443/0, 10-12=0/442

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

1/22/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0097 BLAKE POND | 109 WHIMBREL COURT LILLINGTON, NC
23-B625-F01	F107	Floor	2	1	Job Reference (optional) **# 44394**

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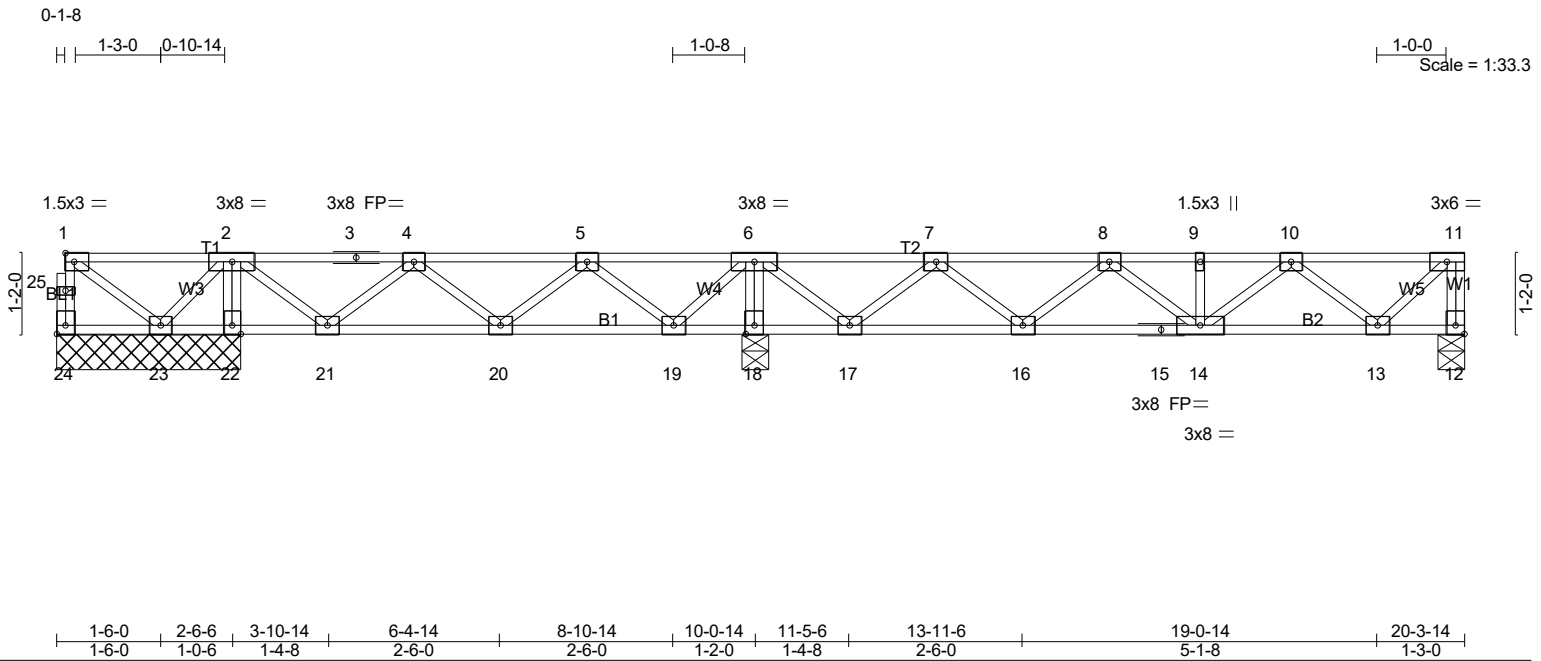

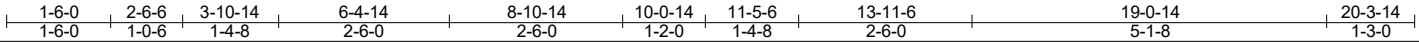

Plate Offsets (X,Y)-- [12:Edge,0-1-8], [24:Edge,0-1-8]

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	0.24	Vert(LL)	-0.02	14-16	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.16	Vert(CT)	-0.03	14-16	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.00	12	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 108 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 6-0-0 oc bracing, Except:
10-0-0 oc bracing: 14-16,13-14,12-13.

REACTIONS. All bearings 2-7-14 except (jt=length) 12=0-4-8, 18=0-4-8.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) 24, 23
Max Grav All reactions 250 lb or less at joint(s) 24, 23 except 12=381(LC 5), 22=533(LC 3), 18=939(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 11-12=-378/0, 4-5=-283/151, 5-6=0/433, 7-8=-614/0, 8-9=-772/0, 9-10=-772/0, 10-11=-324/0
BOT CHORD 20-21=-54/300, 19-20=-275/240, 18-19=-719/0, 17-18=-714/0, 16-17=-32/409, 15-16=0/794, 14-15=0/794, 13-14=0/664
WEBS 2-22=-517/0, 6-18=-917/0, 2-21=-56/347, 4-21=-310/80, 5-19=-462/0, 6-19=0/455, 6-17=0/672, 7-17=-622/0, 7-16=0/295, 8-16=-261/0, 10-13=-443/0, 11-13=0/441

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) 24, 23.
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

1/22/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0097 BLAKE POND | 109 WHIMBREL COURT LILLINGTON, NC
23-B625-F01	F108	Floor	1	1	# 44394
					Job Reference (optional)

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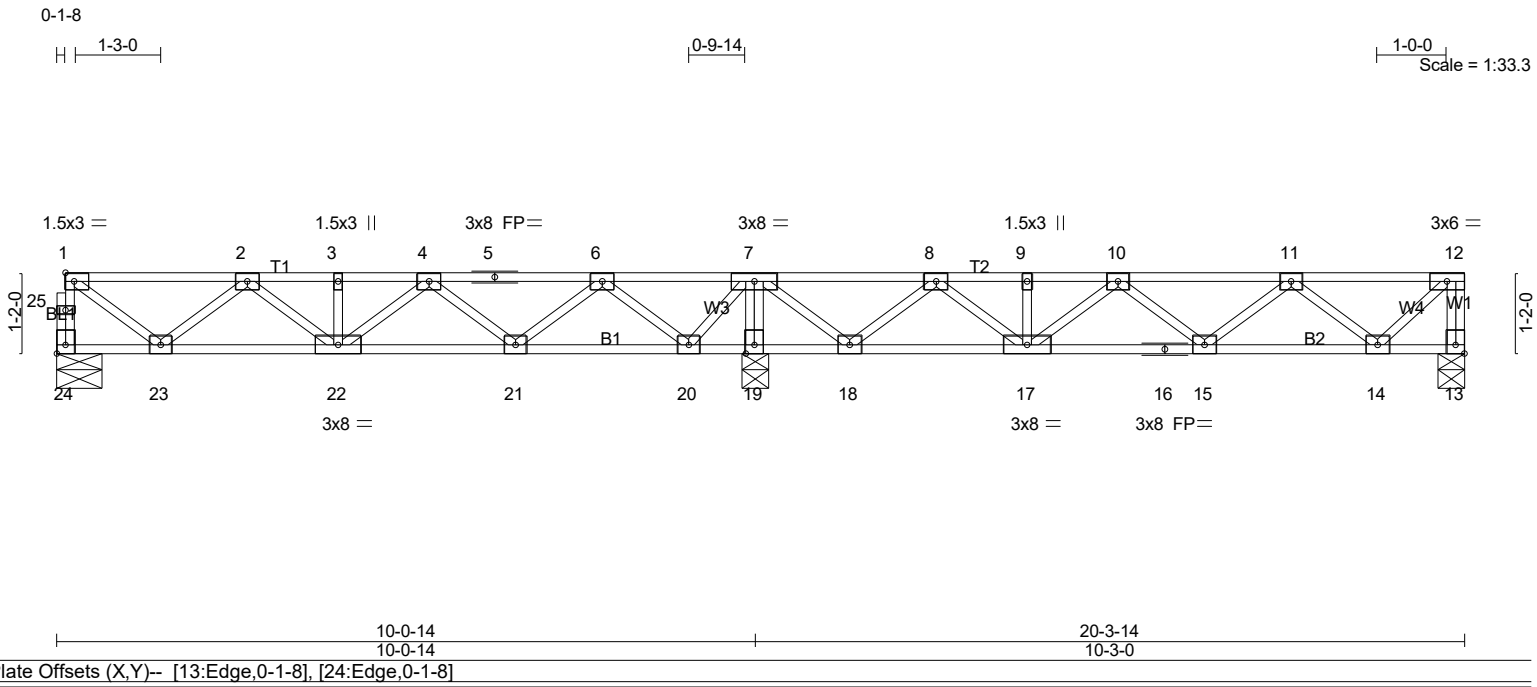

Plate Offsets (X,Y)-- [13:Edge,0-1-8], [24:Edge,0-1-8]

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	0.27	Vert(LL)	-0.02	15-17	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.16	Vert(CT)	-0.03	15-17	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.01	13	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 107 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 6-0-0 oc bracing.

REACTIONS. (lb/size) 24=329/0-7-14 (min. 0-1-8), 13=343/0-4-8 (min. 0-1-8), 19=1088/0-4-8 (min. 0-1-8)
Max Grav 24=367(LC 3), 13=380(LC 4), 19=1088(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 24-25=-364/0, 1-25=-363/0, 12-13=-377/0, 1-2=-374/0, 2-3=-749/0, 3-4=-749/0, 4-5=-517/160, 5-6=-517/160, 6-7=0/538, 7-8=0/396, 8-9=-639/93, 9-10=-639/93, 10-11=-745/0, 11-12=-327/0
BOT CHORD 22-23=0/688, 21-22=-45/739, 20-21=-301/271, 19-20=-938/0, 18-19=-927/0, 17-18=-233/392, 16-17=-1/796, 15-16=-1/796, 14-15=0/671
WEBS 7-19=-1062/0, 1-23=0/449, 2-23=-409/0, 4-21=-353/0, 6-21=0/387, 6-20=-674/0, 7-20=0/591, 7-18=0/699, 8-18=-651/0, 8-17=0/381, 10-17=-256/0, 11-14=-448/0, 12-14=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

1/22/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0097 BLAKE POND | 109 WHIMBREL COURT LILLINGTON, NC
23-B625-F01	F109	Floor	1	1	# 44394
					Job Reference (optional)

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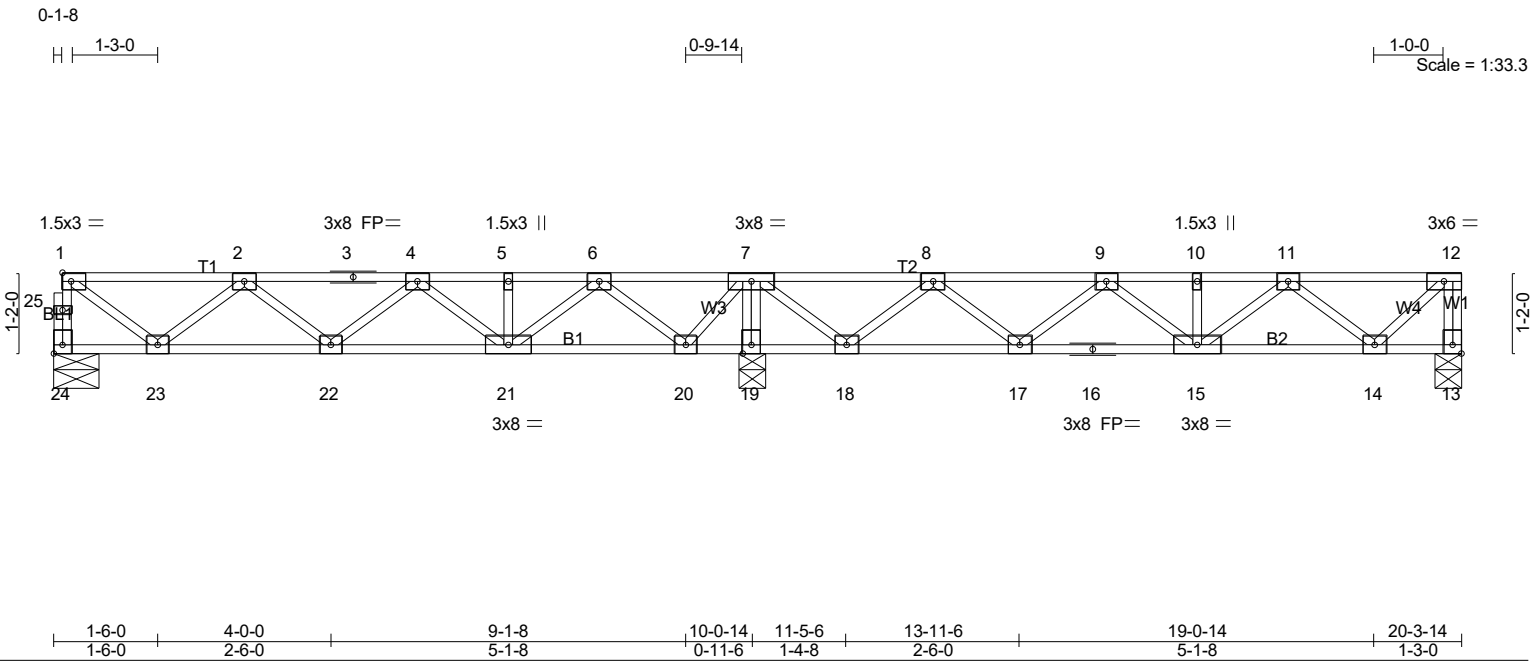


1-6-0	4-0-0	9-1-8	10-0-14	11-5-6	13-11-6	19-0-14	20-3-14
1-6-0	2-6-0	5-1-8	0-11-6	1-4-8	2-6-0	5-1-8	1-3-0

Plate Offsets (X,Y)-- [13:Edge,0-1-8], [24: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	0.27	Vert(LL)	-0.02	15-17	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.16	Vert(CT)	-0.03	15-17	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.01	13	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 107 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)

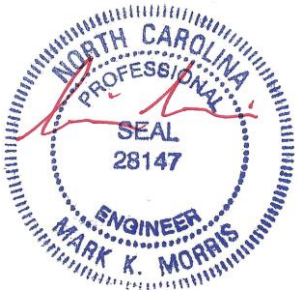
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) 24=329/0-7-14 (min. 0-1-8), 13=343/0-4-8 (min. 0-1-8), 19=1088/0-4-8 (min. 0-1-8)
Max Grav 24=367(LC 3), 13=380(LC 4), 19=1088(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 24-25=-364/0, 1-25=-363/0, 12-13=-377/0, 1-2=-377/0, 2-3=-732/0, 3-4=-732/0, 4-5=-556/145, 5-6=-556/145, 6-7=0/543, 7-8=0/394, 8-9=-608/105, 9-10=-768/0, 10-11=-768/0, 11-12=-323/0
BOT CHORD 22-23=0/696, 21-22=-41/744, 20-21=-305/258, 19-20=-938/0, 18-19=-927/0, 17-18=-230/401, 16-17=-6/790, 15-16=-6/790, 14-15=0/661
WEBS 7-19=-1062/0, 1-23=0/454, 2-23=-415/0, 4-21=-299/0, 6-21=0/453, 6-20=-663/0, 7-20=0/583, 7-18=0/705, 8-18=-657/0, 8-17=0/330, 9-17=-296/0, 11-14=-441/0, 12-14=0/440

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



1/22/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0097 BLAKE POND | 109 WHIMBREL COURT LILLINGTON, NC
23-B625-F01	F110	Floor	7	1	Job Reference (optional) **# 44394**

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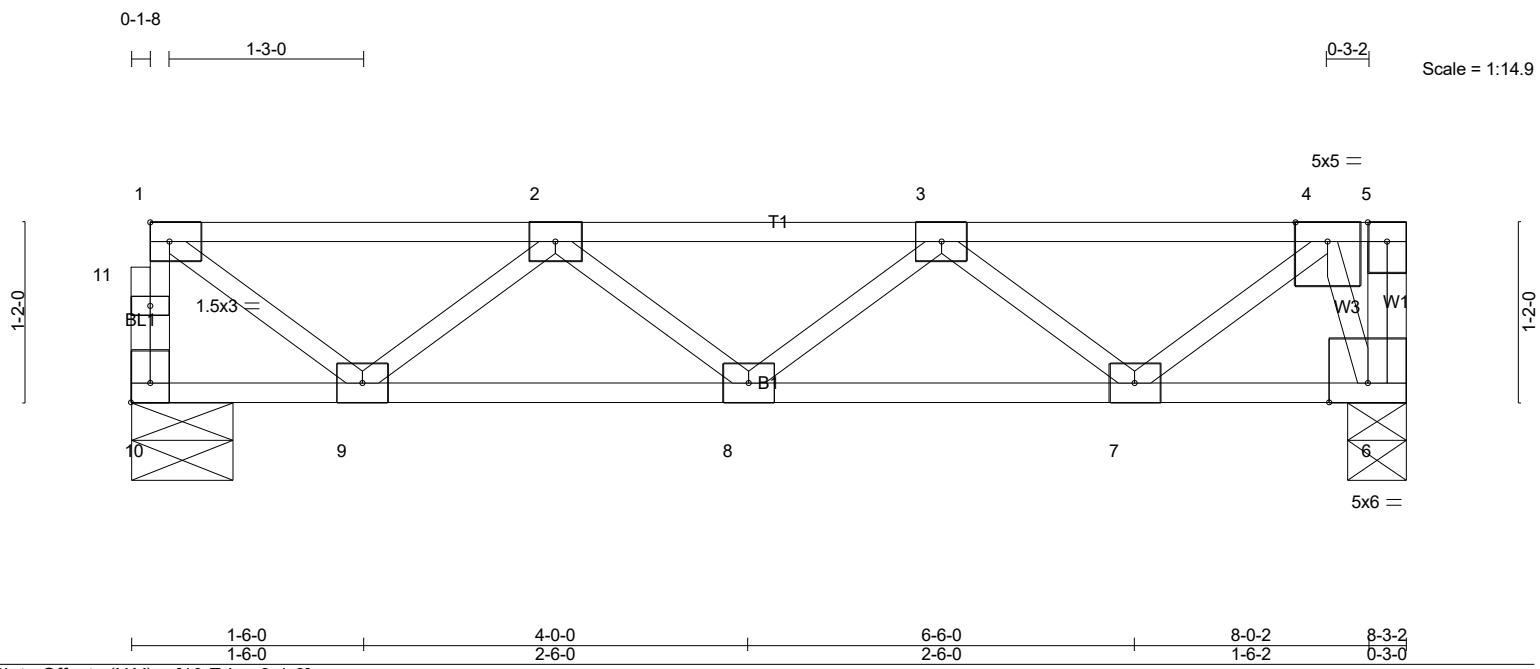

Plate Offsets (X,Y)-- [10:Edge,0-1-8]

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	0.21	Vert(LL)	-0.01	8	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.13	Vert(CT)	-0.02	8	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	6	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-P							Weight: 45 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=347/0-7-14 (min. 0-1-8), 6=352/0-4-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 10-11=-344/0, 1-11=-343/0, 1-2=-349/0, 2-3=-662/0, 3-4=-417/0
BOT CHORD 8-9=0/642, 7-8=0/656
WEBS 1-9=0/419, 2-9=-382/0, 3-7=-311/0, 4-7=0/339, 4-6=-452/0

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

1/22/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0097 BLAKE POND | 109 WHIMBREL COURT LILLINGTON, NC
23-B625-F01	F111	Floor Supported Gable	1	1	Job Reference (optional) **# 44394**

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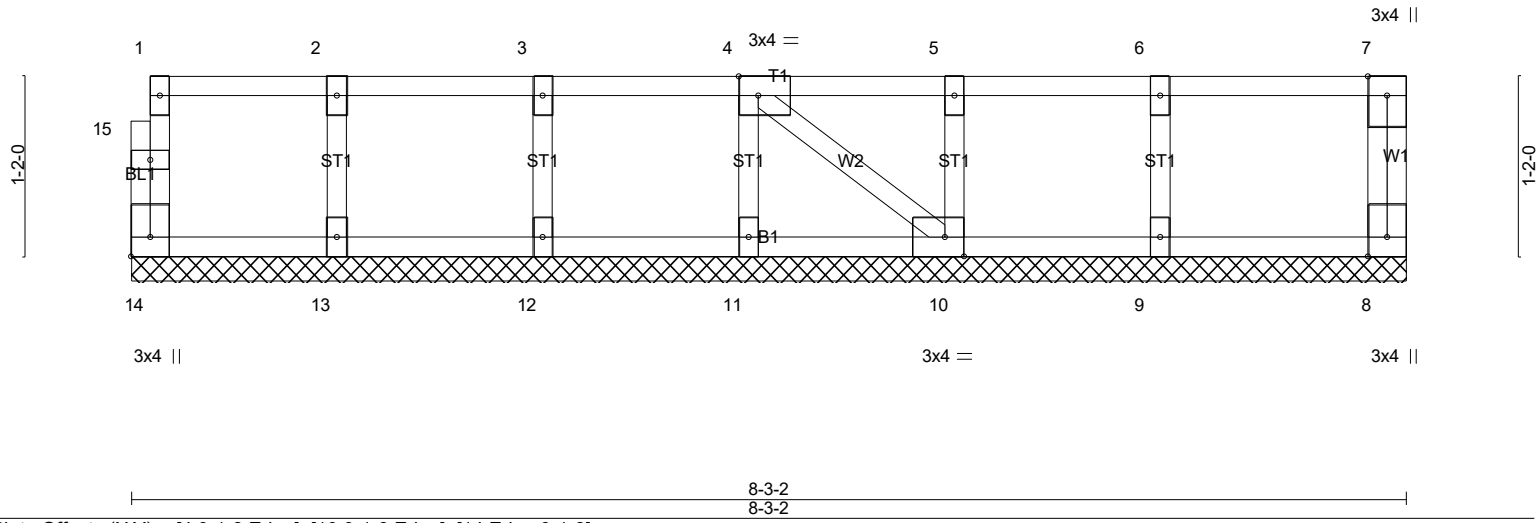

8-3-2
8-3-2

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [10:0-1-8,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	0.08	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	0.04	Horz(CT)	0.00	8	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-P							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)
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 8-3-2.
(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- (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

1/22/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0097 BLAKE POND | 109 WHIMBREL COURT LILLINGTON, NC
23-B625-F01	F112	Floor	1	1	Job Reference (optional) **# 44394**

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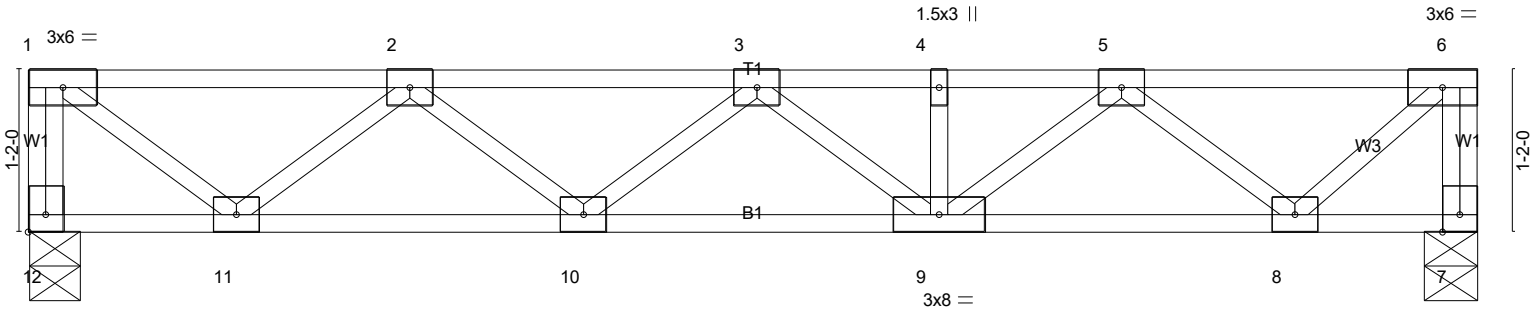

1-6-0 4-0-0 9-1-8 10-5-4
1-6-0 2-6-0 5-1-8 1-3-12

Plate Offsets (X,Y)-- [12: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	0.19	Vert(LL)	-0.02	9-10	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.18	Vert(CT)	-0.03	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 56 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=374/0-4-8 (min. 0-1-8), 7=374/0-4-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-370/0, 6-7=-371/0, 1-2=-396/0, 2-3=-844/0, 3-4=-848/0, 4-5=-848/0, 5-6=-346/0
BOT CHORD 10-11=0/740, 9-10=0/929, 8-9=0/694
WEBS 1-11=0/497, 2-11=-447/0, 5-8=-453/0, 6-8=0/461

NOTES- (3-4)
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) 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

1/22/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0097 BLAKE POND | 109 WHIMBREL COURT LILLINGTON, NC
23-B625-F01	F113	Floor	8	1	Job Reference (optional) **# 44394**

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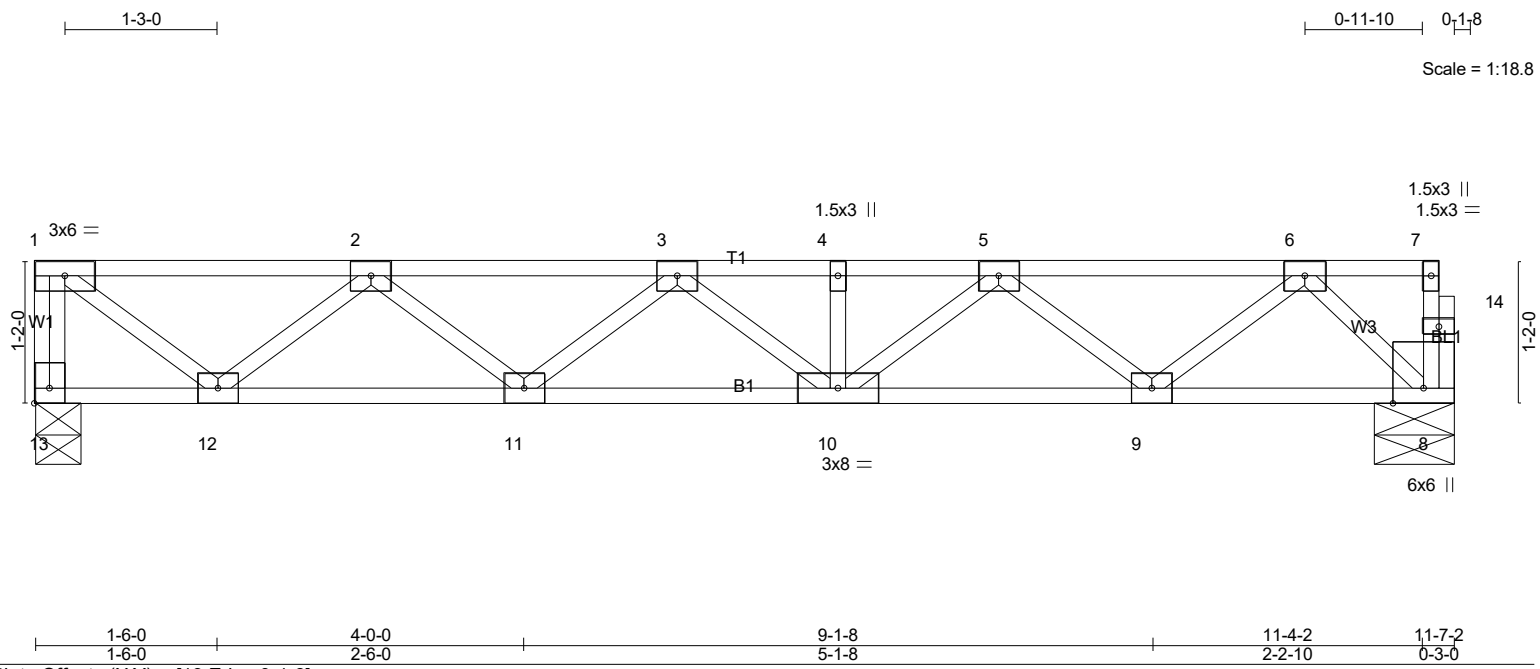

Plate Offsets (X,Y)-- [13:Edge,0-1-8]

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	0.19	Vert(LL)	-0.04	10	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.22	Vert(CT)	-0.05	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.01	8	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 61 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) 13=416/0-4-8 (min. 0-1-8), 8=412/0-7-14 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-13=-412/0, 1-2=-452/0, 2-3=-1001/0, 3-4=-1110/0, 4-5=-1110/0, 5-6=-720/0
BOT CHORD 11-12=0/846, 10-11=0/1136, 9-10=0/1001, 8-9=0/417
WEBS 1-12=0/566, 2-12=-513/0, 5-9=-366/0, 6-9=0/394, 6-8=-576/0

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

1/22/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0097 BLAKE POND | 109 WHIMBREL COURT LILLINGTON, NC
23-B625-F01	F114	Floor Supported Gable	1	1	Job Reference (optional) **# 44394**

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Jan 24 20:03:21 2024 Page 1
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0-1-8

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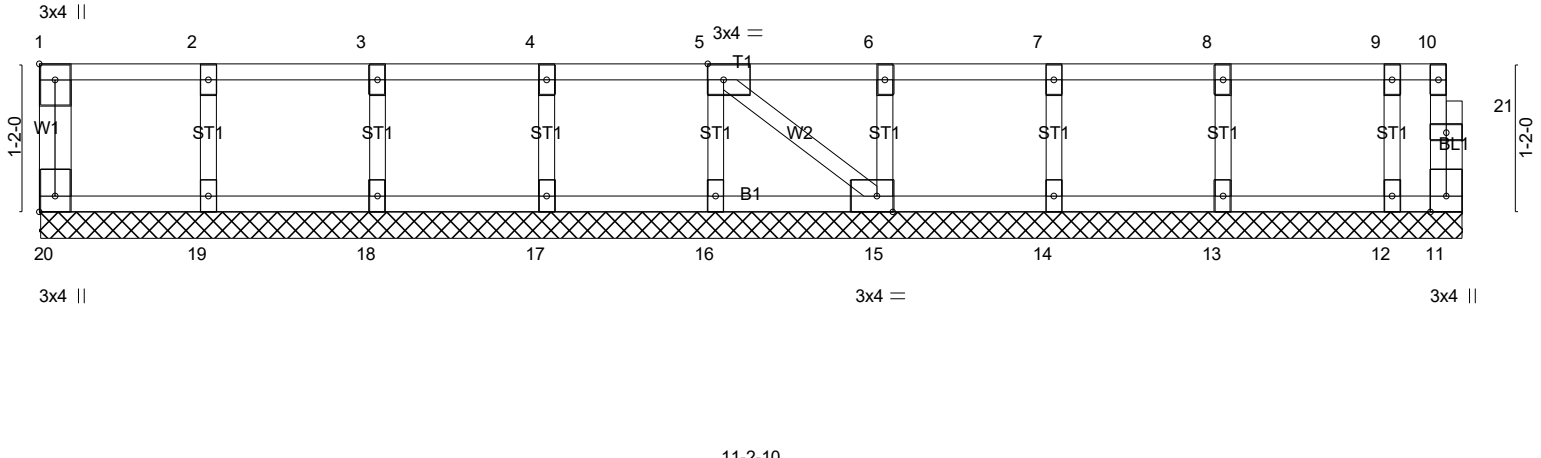

11-2-10
11-2-10

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [5:0-1-8,Edge], [15:0-1-8,Edge], [20: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	11	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 52 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 6-0-0 oc bracing.

REACTIONS. All bearings 11-2-10.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) 11
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- (8-9)
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11.
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

1/22/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0097 BLAKE POND | 109 WHIMBREL COURT LILLINGTON, NC
23-B625-F01	F115	Floor Supported Gable	1	1	Job Reference (optional) **# 44394**

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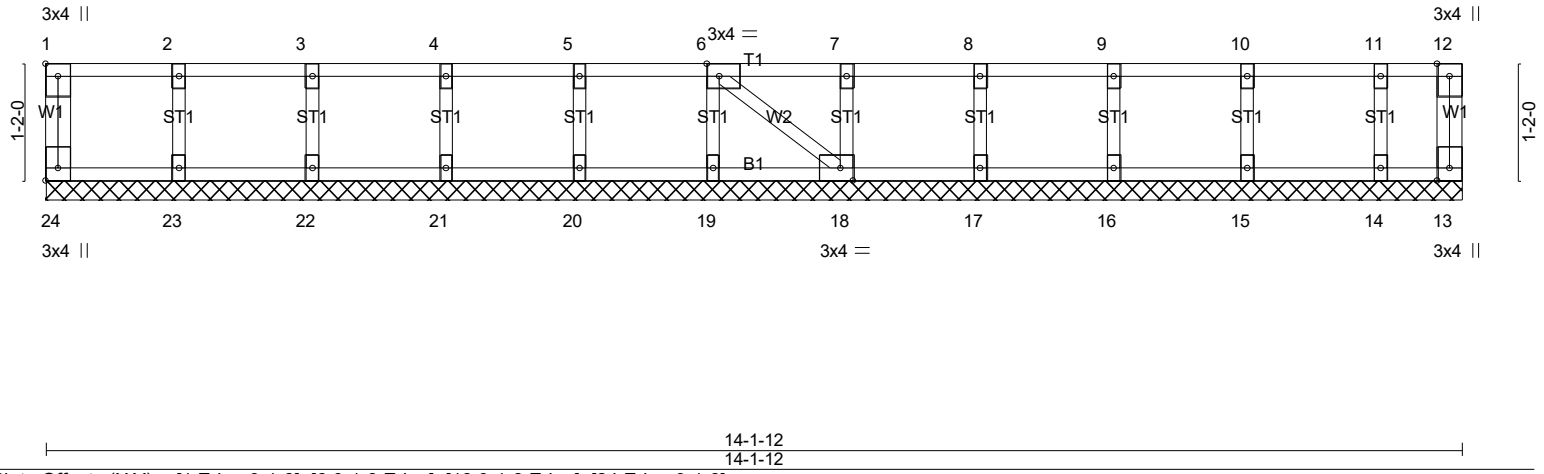

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [6:0-1-8,Edge], [18:0-1-8,Edge], [24:Edge,0-1-8]

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: 63 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 14-1-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 24, 13, 23, 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- (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

1/22/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0097 BLAKE POND | 109 WHIMBREL COURT LILLINGTON, NC
23-B625-F01	F116	FLOOR	7	1	Job Reference (optional) **# 44394**

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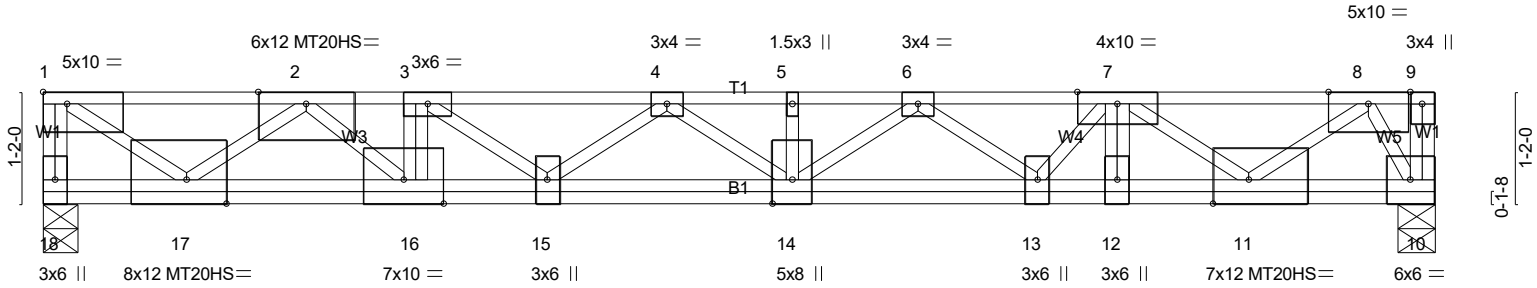
1-3-0 1-0-4 0-8-8 0-5-4

Scale: 1/2"=1'



3-10-12 11-2-12 14-6-8
3-10-12 7-4-0 3-3-12

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [11:0-4-8,Edge], [17:0-5-0,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	0.90	Vert(LL)	-0.08	14	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.78	Vert(CT)	-0.35	14-15	>491	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	NO	WB	0.86	Horz(CT)	0.05	10	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 SS(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat) *Except*
W2,W3: 2x4 SP No.2(flat)

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

REACTIONS. (lb/size) 18=1878/0-4-8 (min. 0-1-8), 10=1859/0-4-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-18=-1854/0, 1-2=-2477/0, 2-3=-6526/0, 3-4=-6653/0, 4-5=-6570/0, 5-6=-6570/0, 6-7=-5859/0, 7-8=-3230/0
BOT CHORD 16-17=0/4710, 15-16=0/6526, 14-15=0/6749, 13-14=0/6309, 12-13=0/5510, 11-12=0/5512, 10-11=0/1084
WEBS 3-16=-1560/0, 7-11=-2812/0, 8-11=0/2726, 8-10=-2177/0, 1-17=0/3041, 2-17=-2836/0, 2-16=0/2389, 6-14=0/325, 6-13=-573/0, 7-13=0/531

NOTES- (5-6)
1) All plates are MT20 plates unless otherwise indicated.
2) Load case(s) 1, 2 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
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
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 10-18=-8, 1-9=-80
Concentrated Loads (lb)
Vert: 7=-1120 3=-1360
2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 10-18=-8, 1-9=-80
Concentrated Loads (lb)
Vert: 7=-1120 3=-1360

1/22/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0097 BLAKE POND | 109 WHIMBREL COURT LILLINGTON, NC
23-B625-F01	F117	Floor	5	1	Job Reference (optional) **# 44394**

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Jan 24 20:03:24 2024 Page 1
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1-3-0 1-5-0

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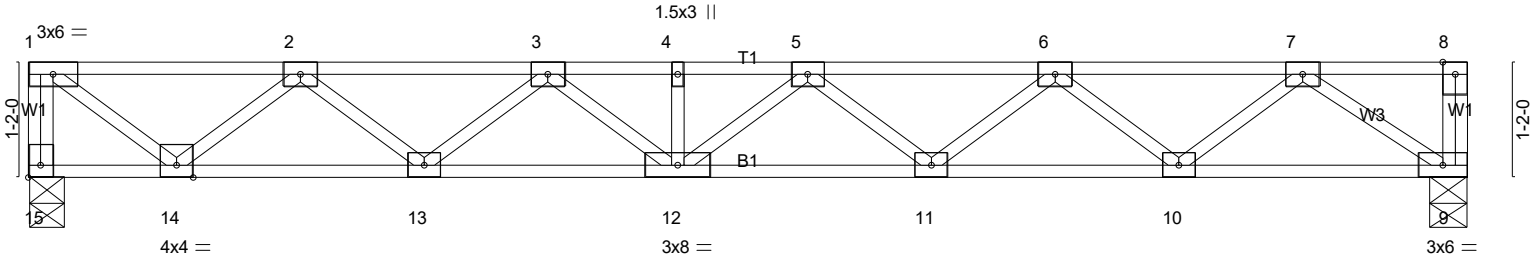

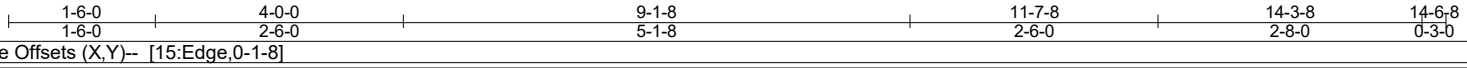

Plate Offsets (X,Y)-- [15:Edge,0-1-8]

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	0.23	Vert(LL)	-0.10	11-12	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.41	Vert(CT)	-0.14	11-12	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.03	9	n/a	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)

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) 15=628/0-4-8 (min. 0-1-8), 9=628/0-4-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-15=-623/0, 1-2=-712/0, 2-3=-1680/0, 3-4=-2130/0, 4-5=-2130/0, 5-6=-1981/0, 6-7=-1331/0
BOT CHORD 13-14=0/1340, 12-13=0/1997, 11-12=0/2157, 10-11=0/1783, 9-10=0/852
WEBS 1-14=0/893, 2-14=-817/0, 2-13=0/444, 3-13=-412/0, 6-11=0/258, 6-10=-588/0, 7-10=0/624, 7-9=-1028/0

NOTES- (3-4)
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) 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

1/22/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0097 BLAKE POND | 109 WHIMBREL COURT LILLINGTON, NC
23-B625-F01	F117A	Floor	1	1	Job Reference (optional) **# 44394**

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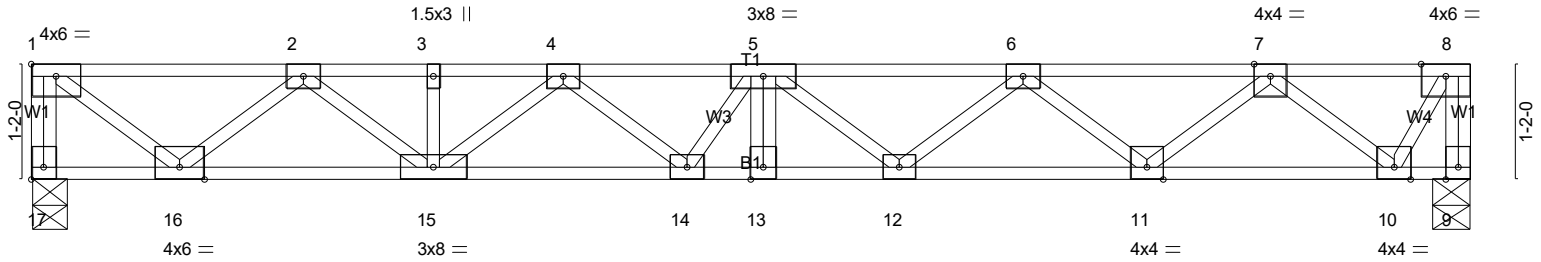

7-4-12 14-6-8
7-4-12 7-1-12

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [17: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	0.42	Vert(LL)	-0.10	13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.74	Vert(CT)	-0.21	13	>806	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.58	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-
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) 17=825/0-4-8 (min. 0-1-8), 9=832/0-4-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-17=-819/0, 8-9=-832/0, 1-2=-966/0, 2-3=-2453/0, 3-4=-2453/0, 4-5=-3340/0, 5-6=-3129/0, 6-7=-2070/0, 7-8=-480/0
BOT CHORD 15-16=0/1824, 14-15=0/2994, 13-14=0/3540, 12-13=0/3540, 11-12=0/2726, 10-11=0/1390
WEBS 1-16=0/1211, 2-16=-1117/0, 2-15=0/803, 4-15=-691/0, 4-14=0/450, 5-14=-332/0, 5-12=-518/0, 6-12=0/525, 6-11=-854/0, 7-11=0/885, 7-10=-1184/0, 8-10=0/911

NOTES- (5-6)
1) All plates are 3x4 MT20 unless otherwise indicated.
2) Load case(s) 1, 2 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
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
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 9-17=-8, 1-8=-80
Concentrated Loads (lb)
Vert: 5=-400
2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 9-17=-8, 1-8=-80
Concentrated Loads (lb)
Vert: 5=-400

1/22/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0097 BLAKE POND | 109 WHIMBREL COURT LILLINGTON, NC
23-B625-F01	F118	FLOOR	2	1	Job Reference (optional) **# 44394**

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Jan 24 20:03:25 2024 Page 1
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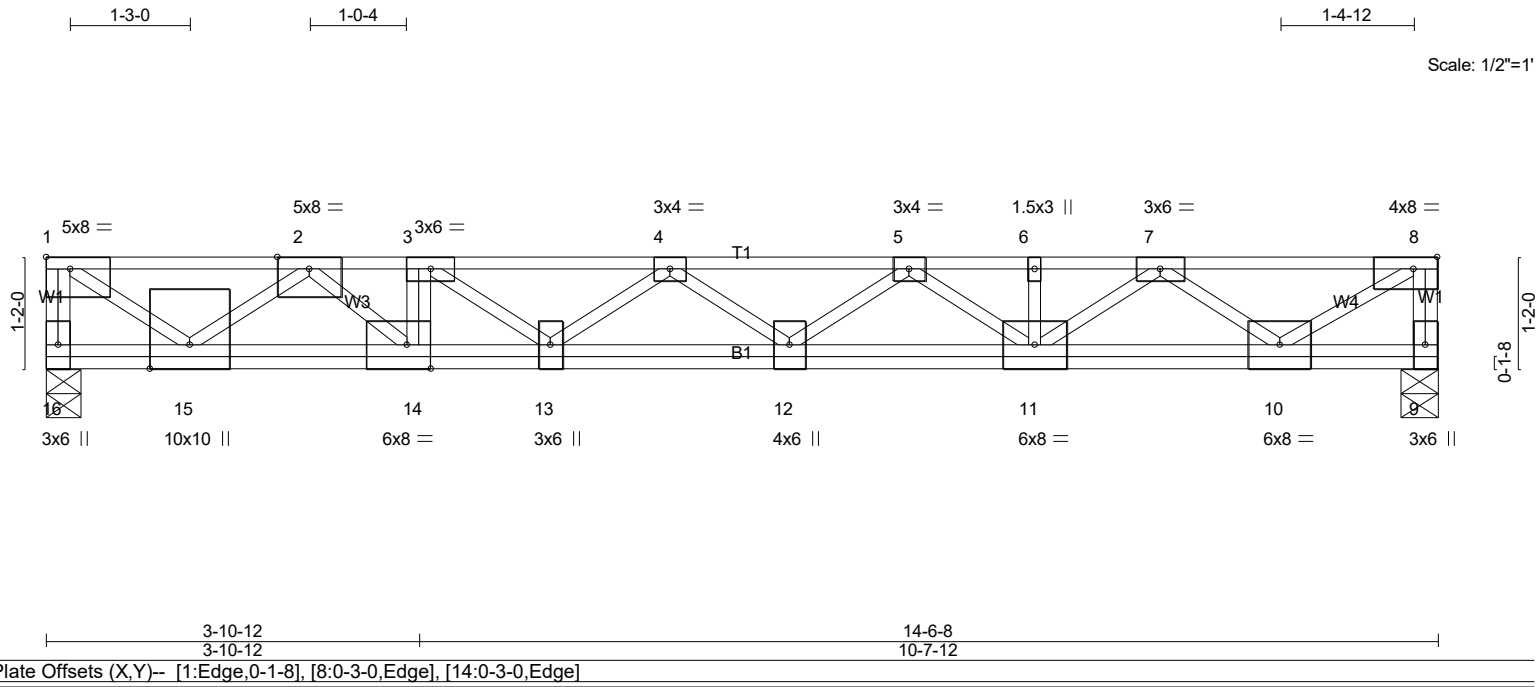

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [8:0-3-0,Edge], [14:0-3-0,Edge]

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	0.95	Vert(LL)	-0.09	12	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.66	Vert(CT)	-0.28	12-13	>624	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.95	Horz(CT)	0.03	9	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) *Except*
W2: 2x4 SP No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-2-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 16=1630/0-4-8 (min. 0-1-8), 9=987/0-4-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-16=-1608/0, 8-9=-968/0, 1-2=-2133/0, 2-3=-5573/0, 3-4=-5359/0, 4-5=-4645/0, 5-6=-3322/0, 6-7=-3322/0, 7-8=-1362/0
BOT CHORD 14-15=0/4049, 13-14=0/5573, 12-13=0/5147, 11-12=0/4114, 10-11=0/2472
WEBS 3-14=-1314/0, 1-15=0/2619, 2-15=-2433/0, 2-14=0/2004, 3-13=-262/0, 4-13=0/270, 4-12=-637/0, 5-12=0/675, 5-11=-988/0, 7-11=0/1060, 7-10=-1410/0, 8-10=0/1620

NOTES- (4-5)
1) Load case(s) 1, 2 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
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
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 9-16=-8, 1-8=-80
Concentrated Loads (lb)
Vert: 3=-1360
2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 9-16=-8, 1-8=-80
Concentrated Loads (lb)
Vert: 3=-1360

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0097 BLAKE POND | 109 WHIMBREL COURT LILLINGTON, NC
23-B625-F01	F119	Floor	3	1	Job Reference (optional) **# 44394**

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Jan 24 20:03:26 2024 Page 1
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1-3-0 1-5-0

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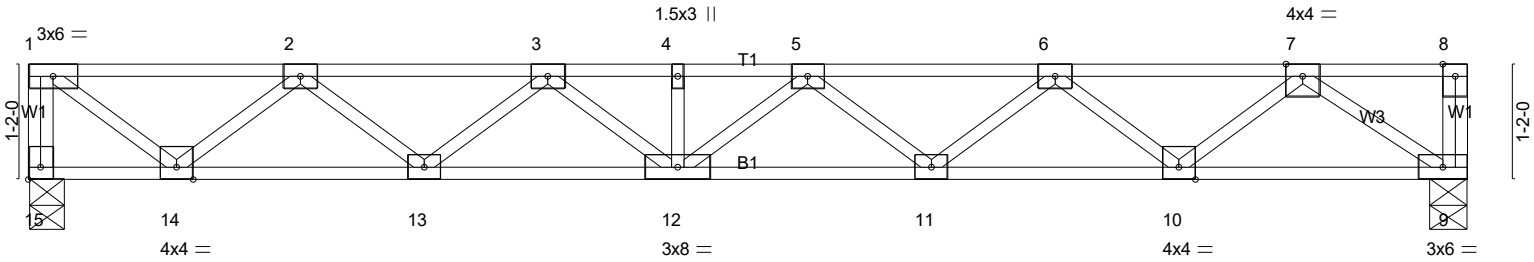

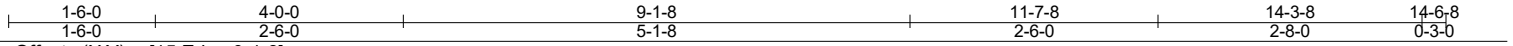

Plate Offsets (X,Y)-- [15:Edge,0-1-8]

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	0.29	Vert(LL)	-0.10	11-12	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.56	Vert(CT)	-0.17	11-12	>986	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.48	Horz(CT)	0.04	9	n/a	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)

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) 15=696/0-4-8 (min. 0-1-8), 9=801/0-4-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-15=-691/0, 1-2=-801/0, 2-3=-1932/0, 3-4=-2547/0, 4-5=-2547/0, 5-6=-2564/0, 6-7=-1789/0
BOT CHORD 13-14=0/1510, 12-13=0/2329, 11-12=0/2659, 10-11=0/2446, 9-10=0/1105
WEBS 1-14=0/1005, 2-14=-923/0, 2-13=0/549, 3-13=-517/0, 3-12=0/278, 6-10=-855/0, 7-10=0/890, 7-9=-1334/0

NOTES- (4-5)
1) All plates are 3x4 MT20 unless otherwise indicated.
2) Load case(s) 1, 2 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
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
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 9-15=-8, 1-8=-80
Concentrated Loads (lb)
Vert: 6=-240
2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 9-15=-8, 1-8=-80
Concentrated Loads (lb)
Vert: 6=-240

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0097 BLAKE POND | 109 WHIMBREL COURT LILLINGTON, NC
23-B625-F01	F120	Floor Supported Gable	1	1	Job Reference (optional) **# 44394**

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Jan 24 20:03:27 2024 Page 1
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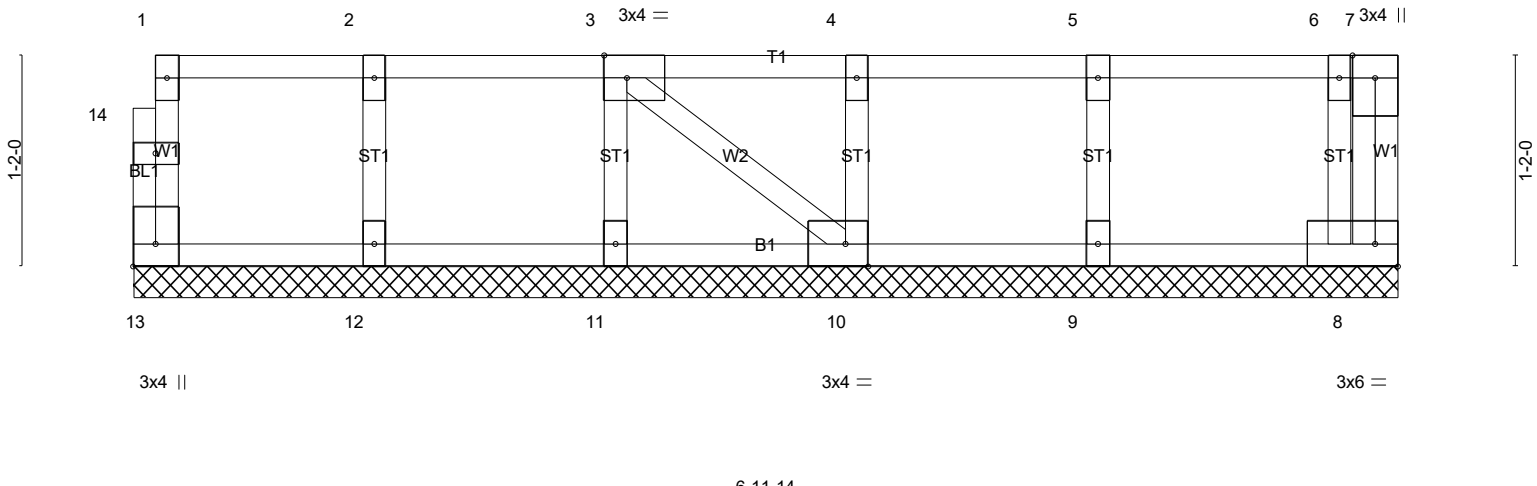

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [10:0-1-8,Edge], [13:Edge,0-1-8]

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	8	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-P							Weight: 35 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 6-11-14.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 13, 8, 12, 11, 10, 9

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

1/22/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0097 BLAKE POND | 109 WHIMBREL COURT LILLINGTON, NC
23-B625-F01	F121	Floor	5	1	Job Reference (optional) **# 44394**

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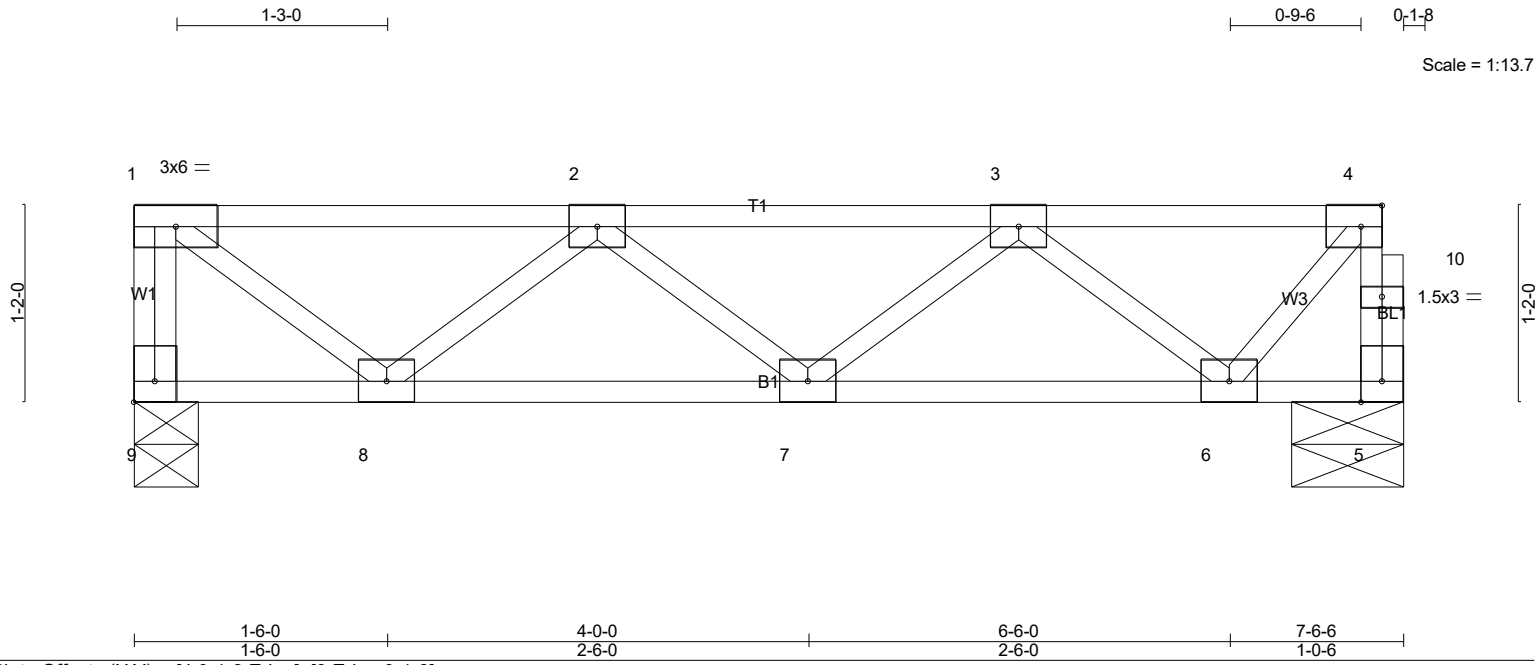

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [9:Edge,0-1-8]

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=400/0-4-8 (min. 0-1-8), 5=394/0-7-14 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-9=-395/0, 5-10=-393/0, 4-10=-393/0, 1-2=-382/0, 2-3=-680/0, 3-4=-275/0
BOT CHORD 7-8=0/705, 6-7=0/623
WEBS 1-8=0/480, 2-8=-420/0, 3-6=-453/0, 4-6=0/399

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

1/22/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0097 BLAKE POND | 109 WHIMBREL COURT LILLINGTON, NC
23-B625-F01	F122	Floor Supported Gable	1	1	Job Reference (optional) **# 44394**

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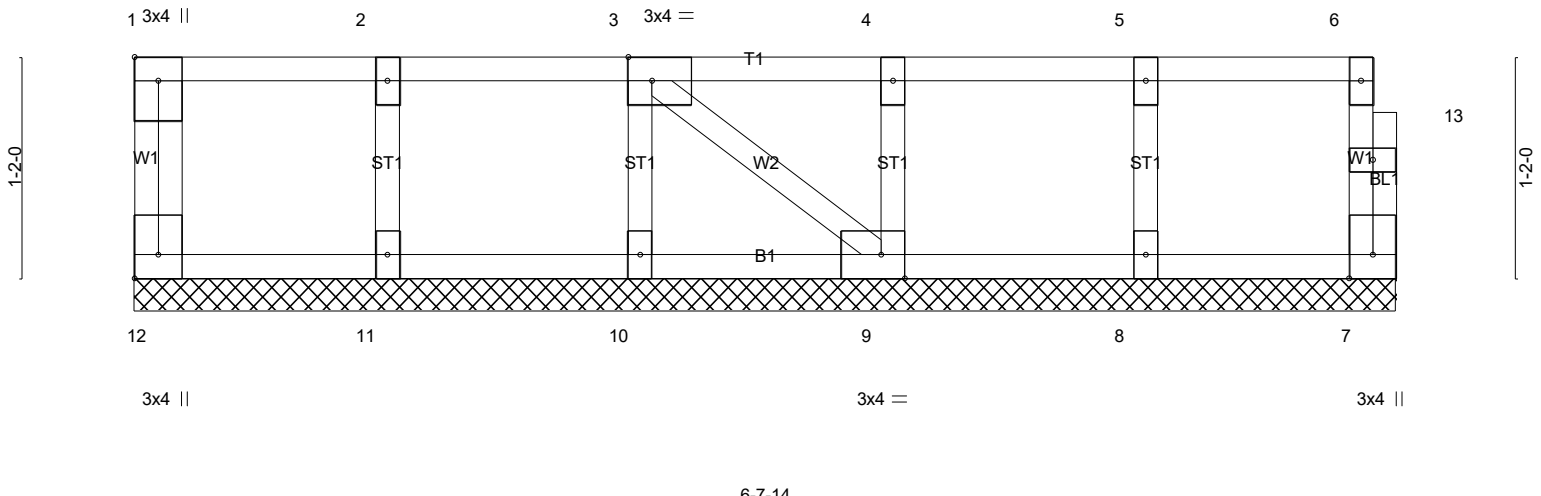

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [3:0-1-8,Edge], [9:0-1-8,Edge], [12:Edge,0-1-8]

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	7	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-P							Weight: 33 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 6-7-14.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 12, 7, 11, 10, 9, 8

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

1/22/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0097 BLAKE POND | 109 WHIMBREL COURT LILLINGTON, NC
23-B625-F01	F123	Floor Supported Gable	2	1	Job Reference (optional) **# 44394**

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Jan 24 20:03:29 2024 Page 1
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0-1-8

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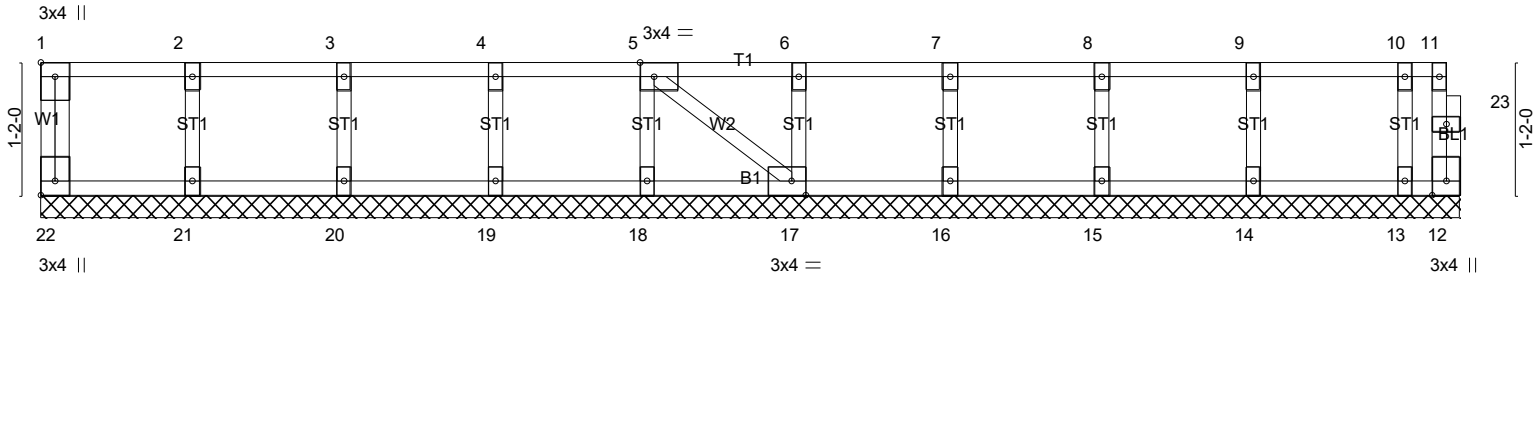

12-5-14
12-5-14

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [5:0-1-8,Edge], [17:0-1-8,Edge], [22: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	12	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 57 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 6-0-0 oc bracing.

REACTIONS. All bearings 12-5-14.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) 12
Max Grav All reactions 250 lb or less at joint(s) 22, 12, 21, 20, 19, 18, 17, 16, 15, 14, 13

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

NOTES- (8-9)
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12.
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

1/22/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0097 BLAKE POND | 109 WHIMBREL COURT LILLINGTON, NC
23-B625-F01	F124	Floor	13	1	Job Reference (optional) **# 44394**

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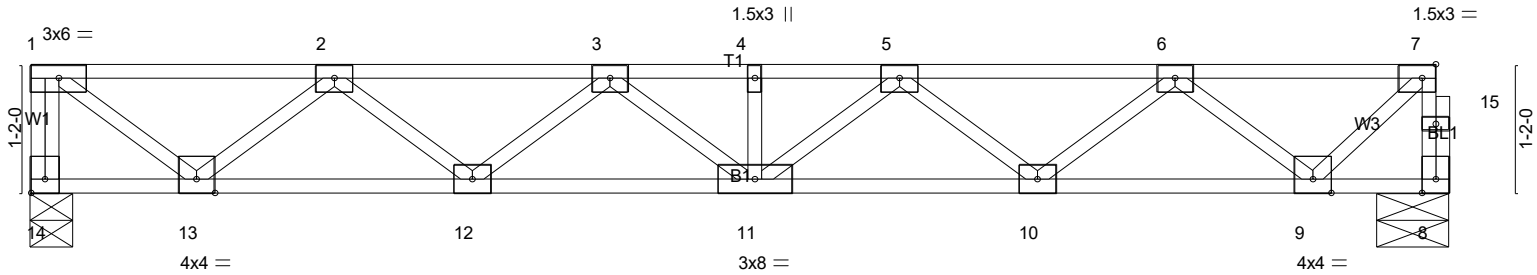
1-3-0 0-11-14 0-1-8

Scale = 1:20.9



1-6-0 4-0-0 9-1-8 11-7-8 12-10-6
1-6-0 2-6-0 5-1-8 2-6-0 1-2-14

Plate Offsets (X,Y)-- [7:0-1-8,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	0.29	Vert(LL)	-0.08	11	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.40	Vert(CT)	-0.11	11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.02	8	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 67 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) 14=694/0-4-8 (min. 0-1-8), 8=688/0-7-14 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-687/0, 8-15=-685/0, 7-15=-683/0, 1-2=-769/0, 2-3=-1760/0, 3-4=-2097/0, 4-5=-2097/0, 5-6=-1687/0, 6-7=-641/0
BOT CHORD 12-13=0/1444, 11-12=0/2046, 10-11=0/2013, 9-10=0/1329
WEBS 1-13=0/965, 2-13=-879/0, 2-12=0/412, 3-12=-371/0, 5-10=-425/0, 6-10=0/465, 6-9=-896/0, 7-9=0/844

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

1/22/2024