

Mark Morris, P.E.

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

AST #: 46063

JOB: 24-1487-F01

JOB NAME: LOT 0.0130 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.

17 Truss Design(s)

Trusses:

F101, F102, F103, F104, F109, F110, F111, F112, F113, F115, F117, F118, F119, F123, F124, F126, F127



3/1/2024

Mark Morris

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

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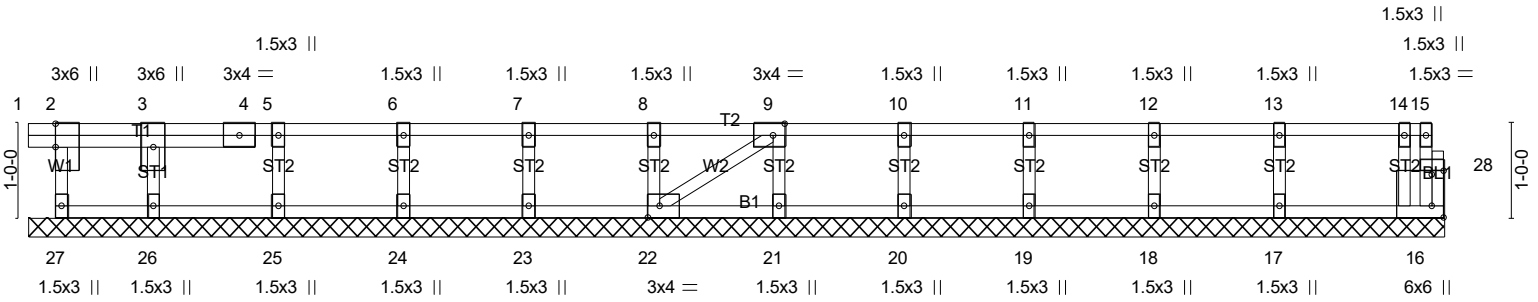
Job	Truss	Truss Type	Qty	Ply	LOT 0.0130 BLAKE POND 95 GREAT SMOKY PLACE LILLINGTON, NC
24-1487-F01	F101	GABLE	1	1	Job Reference (optional) # 46063

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Mar 4 16:33:33 2024 Page 1
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0-3-8

0-1-8

Scale = 1:24.6



0-3-8	15-1-0
0-3-8	14-9-8
Plate Offsets (X,Y)-- [2:0-3-0,Edge], [9:0-1-8,Edge], [16:Edge,0-1-8], [22:0-1-8,Edge], [28:0-1-8,0-0-8]	

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)	-0.00	1	n/r	180	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.01	Vert(CT)	-0.00	1	n/r	80		
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	16	n/a	n/a		
BCDL 5.0	Code IRC2021/TPI2014		Matrix-SH							
								Weight: 65 lb	FT = 20%F, 11%E	

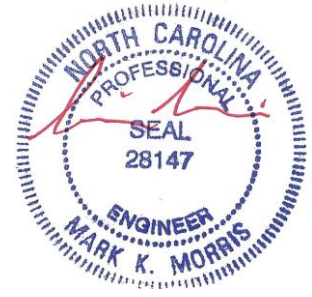
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	
OTHERS 2x4 SP No.3(flat)	

REACTIONS. All bearings 15-1-0.
 (lb) - Max Grav All reactions 250 lb or less at joint(s) 27, 16, 26, 25, 24, 23, 22, 21, 20, 19, 18, 17

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

- NOTES-** (6)
- Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 1-4-0 oc.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - CAUTION, Do not erect truss backwards.
 - Trusses designed with 2018 IRC also comply with 2015 IRC.

LOAD CASE(S) Standard

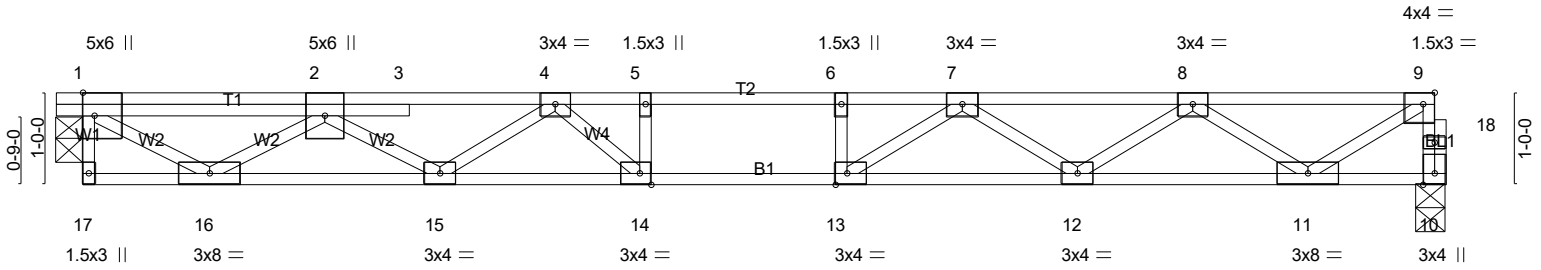
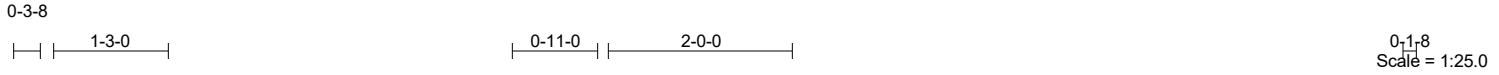


3/1/2024

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Job 24-1487-F01	Truss F102	Truss Type Floor	Qty 9	Ply 1	LOT 0.0130 BLAKE POND 95 GREAT SMOKY PLACE LILLINGTON, NC Job Reference (optional) # 46063
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Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MITek Industries, Inc. Mon Mar 4 16:33:34 2024 Page 1
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0-3-8	6-5-8	7-5-8	8-5-8	15-1-0
0-3-8	6-2-0	1-0-0	1-0-0	6-7-8
Plate Offsets (X,Y)-- [1:0-3-0,Edge], [9:0-1-8,Edge], [13:0-1-8,Edge], [14:0-1-8,Edge]				

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.48	Vert(LL) -0.19	13	>906	480	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.70	Vert(CT) -0.27	13	>659	360		
BCLL 0.0	Lumber DOL 1.00	WB 0.61	Horz(CT) 0.01	10	n/a	n/a		
BCDL 5.0	Rep Stress Incr YES	Matrix-SH						
	Code IRC2021/TPI2014							
							Weight: 76 lb	FT = 20%F, 11%E

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

REACTIONS. (lb/size) 10=797/0-4-0 (min. 0-1-8), 1=803/0-3-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 10-18=-791/0, 9-18=-789/0, 1-2=-1082/0, 2-3=-2587/0, 3-4=-2580/0, 4-5=-3293/0, 5-6=-3293/0, 6-7=-3293/0, 7-8=-2573/0, 8-9=-1086/0
 BOT CHORD 15-16=0/2078, 14-15=0/3020, 13-14=0/3293, 12-13=0/3062, 11-12=0/2040
 WEBS 5-14=-325/0, 1-16=0/1273, 2-16=-1188/0, 2-15=0/598, 4-15=-537/0, 4-14=0/635, 9-11=0/1237, 8-11=-1165/0, 8-12=0/651, 7-12=-596/0, 7-13=-36/577

- NOTES- (5)
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 3) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
 - 4) CAUTION, Do not erect truss backwards.
 - 5) Trusses designed with 2018 IRC also comply with 2015 IRC.

LOAD CASE(S) Standard



3/1/2024

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Job 24-1487-F01	Truss F103	Truss Type Floor	Qty 5	Ply 1	LOT 0.0130 BLAKE POND 95 GREAT SMOKY PLACE LILLINGTON, NC Job Reference (optional) # 46063
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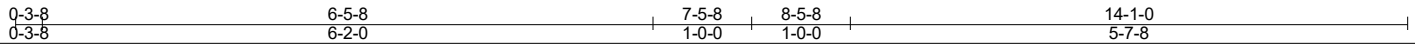
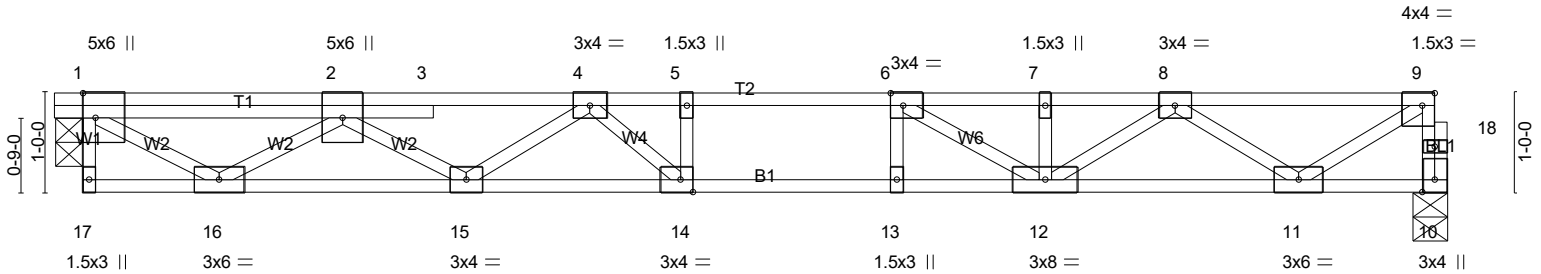
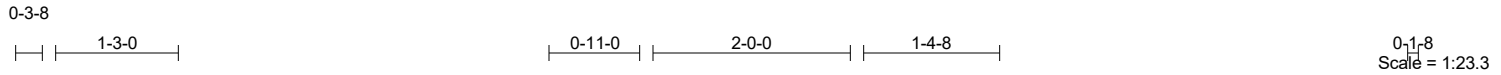


Plate Offsets (X,Y)-- [1:0-3-0,Edge], [6:0-1-8,Edge], [9:0-1-8,Edge], [14:0-1-8,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.41	Vert(LL)	-0.15	14	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.66	Vert(CT)	-0.21	14	>781	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.56	Horz(CT)	0.01	10	n/a	n/a		
BCDL 5.0	Code IRC2021/TPI2014		Matrix-SH							
									Weight: 72 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=742/0-4-0 (min. 0-1-8), 1=748/0-3-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 10-18=-738/0, 9-18=-736/0, 1-2=-994/0, 2-3=-2353/0, 3-4=-2346/0, 4-5=-2850/0, 5-6=-2850/0, 6-7=-2373/0, 7-8=-2373/0, 8-9=-997/0
BOT CHORD 15-16=0/1912, 14-15=0/2701, 13-14=0/2850, 12-13=0/2850, 11-12=0/1862
WEBS 1-16=0/1169, 2-16=-1095/0, 2-15=0/517, 4-15=-434/0, 4-14=-65/484, 9-11=0/1135, 8-11=-1056/0, 8-12=0/614, 6-12=-758/0

- NOTES-** (5)
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 3) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
 - 4) CAUTION, Do not erect truss backwards.
 - 5) Trusses designed with 2018 IRC also comply with 2015 IRC.

LOAD CASE(S) Standard



3/1/2024

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Job 24-1487-F01	Truss F104	Truss Type GABLE	Qty 1	Ply 1	LOT 0.0130 BLAKE POND 95 GREAT SMOKY PLACE LILLINGTON, NC Job Reference (optional) # 46063
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0-1-8

Scale = 1:35.4

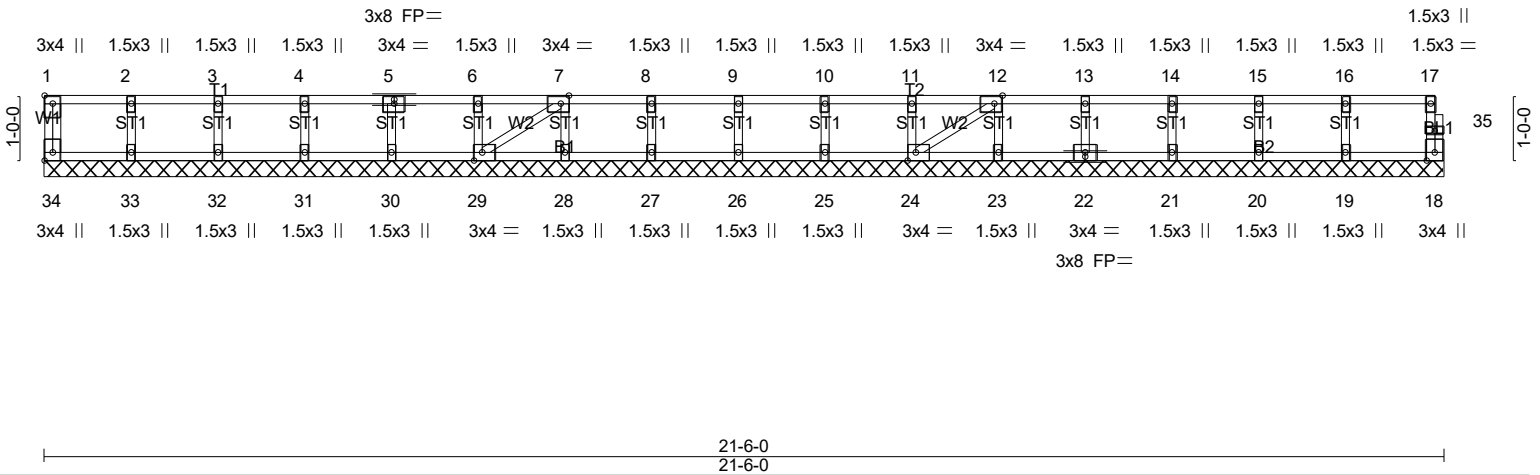


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [7:0-1-8,Edge], [12:0-1-8,Edge], [24:0-1-8,Edge], [29:0-1-8,Edge], [34:Edge,0-1-8]

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 0.07	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.01	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	18	n/a		
BCDL 5.0	Code IRC2021/TPI2014		Matrix-SH						
								Weight: 89 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 21-6-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 34, 18, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21, 20, 19

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

- NOTES-** (6)
1) Gable requires continuous bottom chord bearing.
2) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
3) Gable studs spaced at 1-4-0 oc.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.
6) Trusses designed with 2018 IRC also comply with 2015 IRC.

LOAD CASE(S) Standard



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Job 24-1487-F01	Truss F109	Truss Type GABLE	Qty 1	Ply 1	LOT 0.0130 BLAKE POND 95 GREAT SMOKY PLACE LILLINGTON, NC Job Reference (optional) # 46063
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0-1-8

0-3-0

Scale = 1:13.8

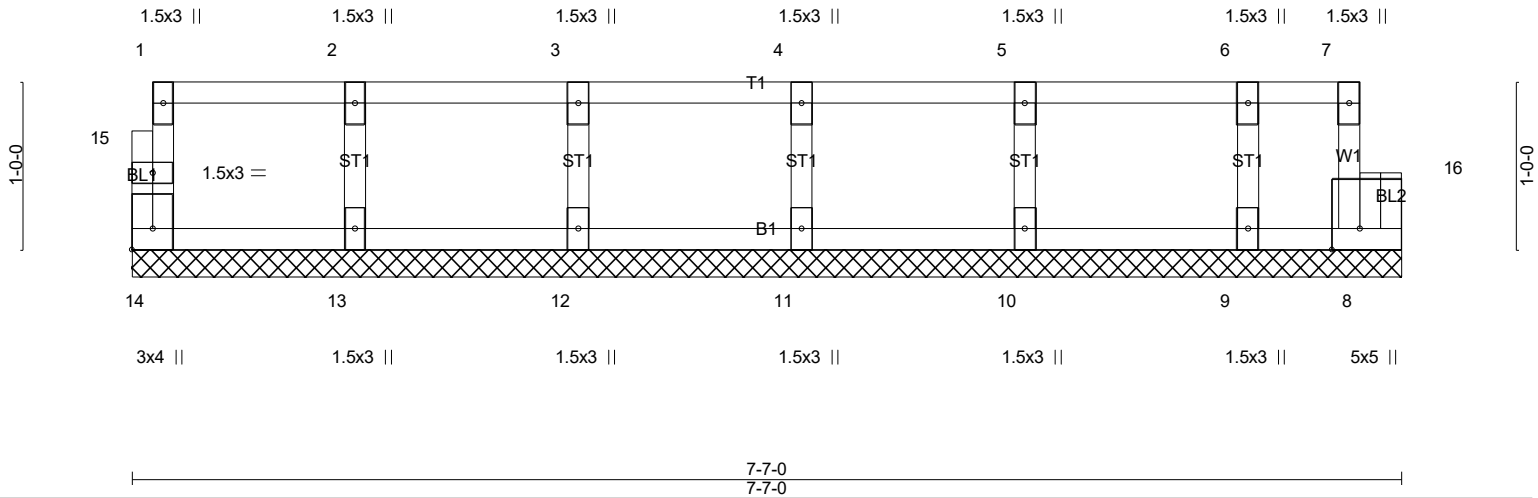


Plate Offsets (X,Y)-- [8:0-1-8,Edge], [14:Edge,0-1-8]

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 0.06	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-R						Weight: 32 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 7-7-0.
(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-** (5)
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) Trusses designed with 2018 IRC also comply with 2015 IRC.

LOAD CASE(S) Standard



3/1/2024

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Job 24-1487-F01	Truss F110	Truss Type Floor	Qty 4	Ply 1	LOT 0.0130 BLAKE POND 95 GREAT SMOKY PLACE LILLINGTON, NC Job Reference (optional) # 46063
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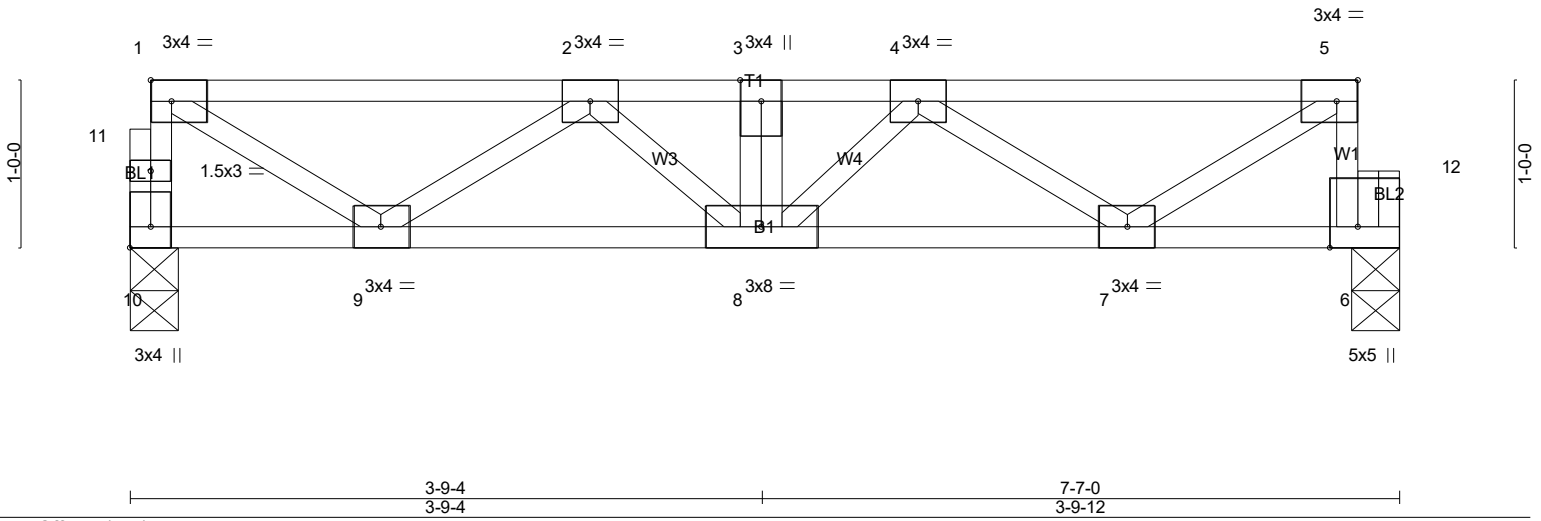
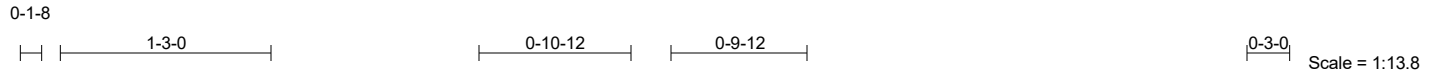


Plate Offsets (X,Y)-- [5:0-1-8,Edge], [6:0-1-8,Edge], [10:Edge,0-1-8]

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 0.26	Vert(LL)	-0.02	8	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.23	Vert(CT)	-0.03	8	>999	360		
BCLL 0.0	Rep Stress Incr	NO	WB 0.30	Horz(CT)	0.01	6	n/a	n/a		
BCDL 5.0	Code IRC2021/TPI2014		Matrix-P						Weight: 40 lb	FT = 20%F, 11%E

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

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

REACTIONS. (lb/size) 10=429/0-3-8 (min. 0-1-8), 6=426/0-3-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 10-11=-425/0, 1-11=-425/0, 6-12=-421/0, 5-12=-423/0, 1-2=-562/0, 2-3=-1221/0, 3-4=-1222/0, 4-5=-587/0
BOT CHORD 8-9=0/1049, 7-8=0/1069
WEBS 3-8=-277/0, 1-9=0/639, 2-9=-594/0, 5-7=0/633, 4-7=-589/0

- NOTES-** (5)
1) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
2) CAUTION, Do not erect truss backwards.
3) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 334 lb down at 3-9-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
4) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
5) Trusses designed with 2018 IRC also comply with 2015 IRC.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-10=-7, 1-5=-67
Concentrated Loads (lb)
Vert: 3=-334(F)



3/1/2024

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Job 24-1487-F01	Truss F111	Truss Type GABLE	Qty 1	Ply 1	LOT 0.0130 BLAKE POND 95 GREAT SMOKY PLACE LILLINGTON, NC Job Reference (optional) # 46063
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Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Mar 4 16:33:38 2024 Page 1
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0₁-8

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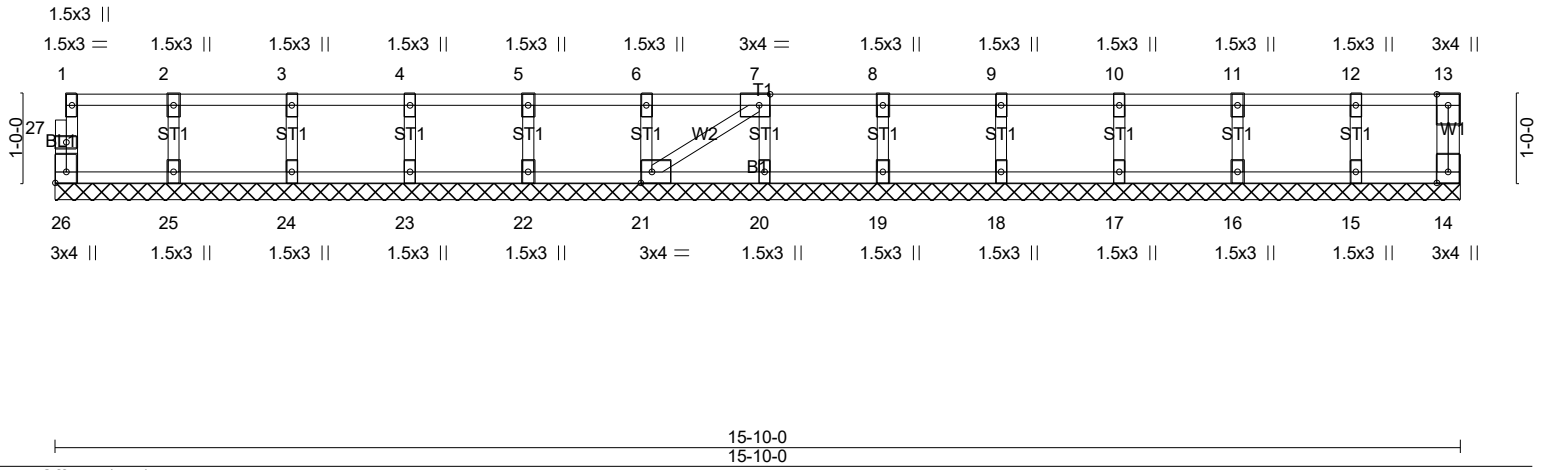


Plate Offsets (X,Y)-- [7:0-1-8,Edge], [21:0-1-8,Edge], [26:Edge,0-1-8]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.06	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.01	Vert(CT) n/a - n/a 999		
BCLL 0.0	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.00 14 n/a n/a		
BCDL 5.0	Code IRC2021/TPI2014	Matrix-SH		Weight: 65 lb	FT = 20%F, 11%E

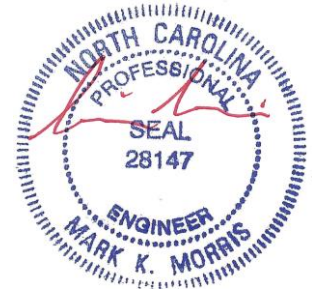
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	
OTHERS 2x4 SP No.3(flat)	

REACTIONS. All bearings 15-10-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 26, 14, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15

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

- NOTES-** (6)
- Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 1-4-0 oc.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - CAUTION, Do not erect truss backwards.
 - Trusses designed with 2018 IRC also comply with 2015 IRC.

LOAD CASE(S) Standard



3/1/2024

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Job 24-1487-F01	Truss F112	Truss Type Floor	Qty 7	Ply 1	LOT 0.0130 BLAKE POND 95 GREAT SMOKY PLACE LILLINGTON, NC Job Reference (optional) # 46063
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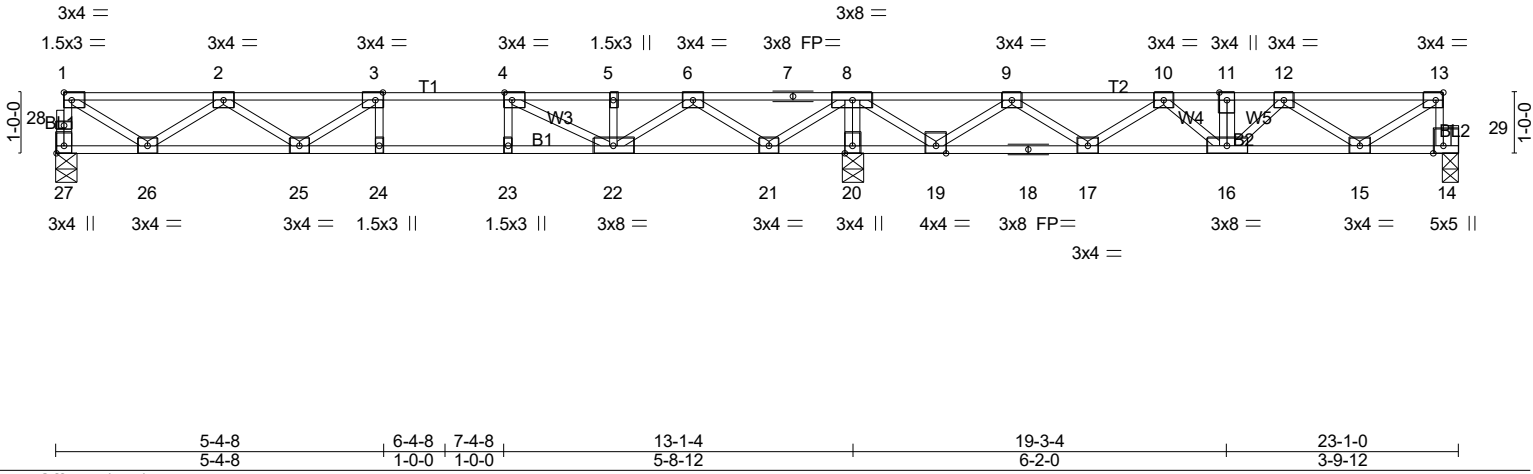


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [13:0-1-8,Edge], [14:0-1-8,Edge], [27:Edge,0-1-8]					
LOADING (psf)	SPACING- 1-4-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.37	Vert(LL) -0.08 24-25 >999 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.54	Vert(CT) -0.11 24-25 >999 360		
BCLL 0.0	Rep Stress Incr NO	WB 0.44	Horz(CT) 0.02 14 n/a n/a		
BCDL 5.0	Code IRC2021/TPI2014	Matrix-SH			Weight: 114 lb FT = 20%F, 11%E

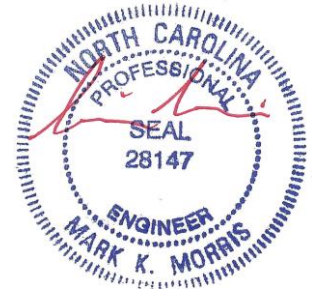
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (lb/size) 27=381/0-4-0 (min. 0-1-8), 14=441/0-3-8 (min. 0-1-8), 20=1170/0-4-8 (min. 0-1-8)
Max Grav 27=407(LC 3), 14=494(LC 4), 20=1170(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 27-28=-402/0, 1-28=-401/0, 14-29=-489/0, 13-29=-490/0, 1-2=-532/0, 2-3=-1163/0,
3-4=-1273/0, 4-5=-814/125, 5-6=-814/125, 6-7=0/651, 7-8=0/651, 8-9=-3/633,
9-10=-1027/171, 10-11=-1504/0, 11-12=-1505/0, 12-13=-697/0
BOT CHORD 25-26=0/996, 24-25=0/1273, 23-24=0/1273, 22-23=0/1273, 21-22=-296/401, 20-21=-1284/0,
19-20=-1284/0, 18-19=-386/645, 17-18=-386/645, 16-17=0/1384, 15-16=0/1275
WEBS 8-20=-1144/0, 1-26=0/604, 2-26=-568/0, 8-21=0/855, 6-21=-783/0, 6-22=0/545,
4-22=-658/0, 13-15=0/754, 12-15=-705/0, 12-16=-4/315, 8-19=0/925, 9-19=-861/0,
9-17=0/565, 10-17=-533/0, 11-16=-305/0

- NOTES-** (6)
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 3) CAUTION, Do not erect truss backwards.
 - 4) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 334 lb down at 19-3-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - 5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
 - 6) Trusses designed with 2018 IRC also comply with 2015 IRC.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 14-27=-7, 1-13=-67
Concentrated Loads (lb)
Vert: 11=-334(F)

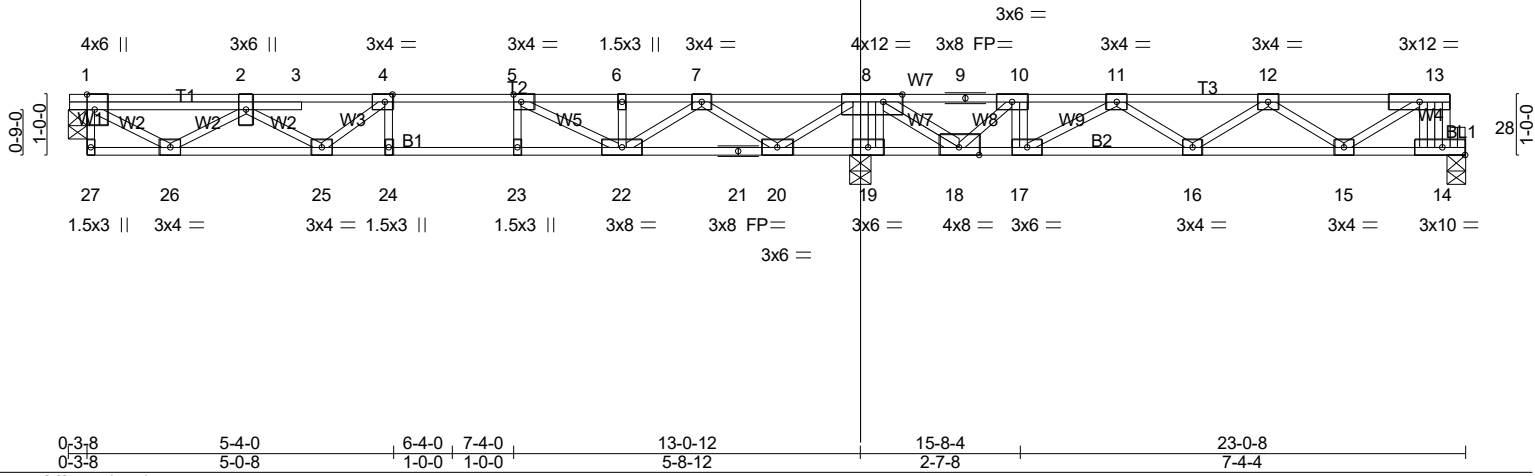


3/1/2024

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Job 24-1487-F01	Truss F115	Truss Type Floor	Qty 9	Ply 1	LOT 0.0130 BLAKE POND 95 GREAT SMOKY PLACE LILLINGTON, NC Job Reference (optional) # 46063
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.42	Vert(LL) -0.06 24-25 >999 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.53	Vert(CT) -0.09 24-25 >999 360		
BCLL 0.0	Rep Stress Incr NO	WB 0.48	Horz(CT) -0.01 19 n/a n/a		
BCDL 5.0	Code IRC2021/TPI2014	Matrix-SH			Weight: 124 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)

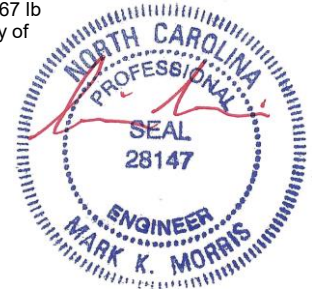
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) 14=1279/0-3-8 (min. 0-1-8), 1=351/0-3-8 (min. 0-1-8), 19=1800/0-4-8 (min. 0-1-8)
Max Grav 14=1336(LC 4), 1=396(LC 3), 19=1951(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 14-28=-1329/0, 13-28=-1334/0, 1-2=-507/0, 2-3=-1116/0, 3-4=-1111/0, 4-5=-1174/71,
5-6=-736/383, 6-7=-736/383, 7-8=0/950, 8-9=-621/486, 9-10=-621/486, 10-11=-1897/67,
11-12=-1636/0, 12-13=-855/0
BOT CHORD 25-26=0/972, 24-25=-71/1174, 23-24=-71/1174, 22-23=-71/1174, 21-22=-582/333,
20-21=-582/333, 19-20=-1717/0, 18-19=-1595/0, 17-18=-67/1897, 16-17=0/1848,
15-16=0/1393
WEBS 8-19=-1931/0, 1-26=0/596, 2-26=-555/0, 8-20=0/980, 7-20=-819/0, 7-22=0/562,
5-22=-712/0, 8-18=0/2018, 10-18=-1719/0, 13-15=0/770, 12-15=-656/0, 12-16=-132/297,
11-16=-259/163, 11-17=-451/56

- NOTES-** (8)
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) Load case(s) 11 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) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
 - 5) CAUTION, Do not erect truss backwards.
 - 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 934 lb down at 15-8-4, and 867 lb down at 22-6-8, and 934 lb down at 13-4-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
 - 8) Trusses designed with 2018 IRC also comply with 2015 IRC.

LOAD CASE(S) Standard Except:
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 14-27=-7, 1-13=-67
Concentrated Loads (lb)
Vert: 10=-934(F) 13=-867(F)
11) User defined: Lumber Increase=1.00, Plate Increase=1.00



3/1/2024

Continued on Page 2 Design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 *National Design Standard for Metal Plate Connected Wood Truss Construction* and BCSI 1-03 *Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses* from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	LOT 0.0130 BLAKE POND 95 GREAT SMOKY PLACE LILLINGTON, NC
24-1487-F01	F115	Floor	9	1	Job Reference (optional) # 46063

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LOAD CASE(S)

Uniform Loads (plf)

Vert: 14-27=-7(F), 1-13=-67(F)

Concentrated Loads (lb)

Vert: 8=-934(F) 13=-867(F)

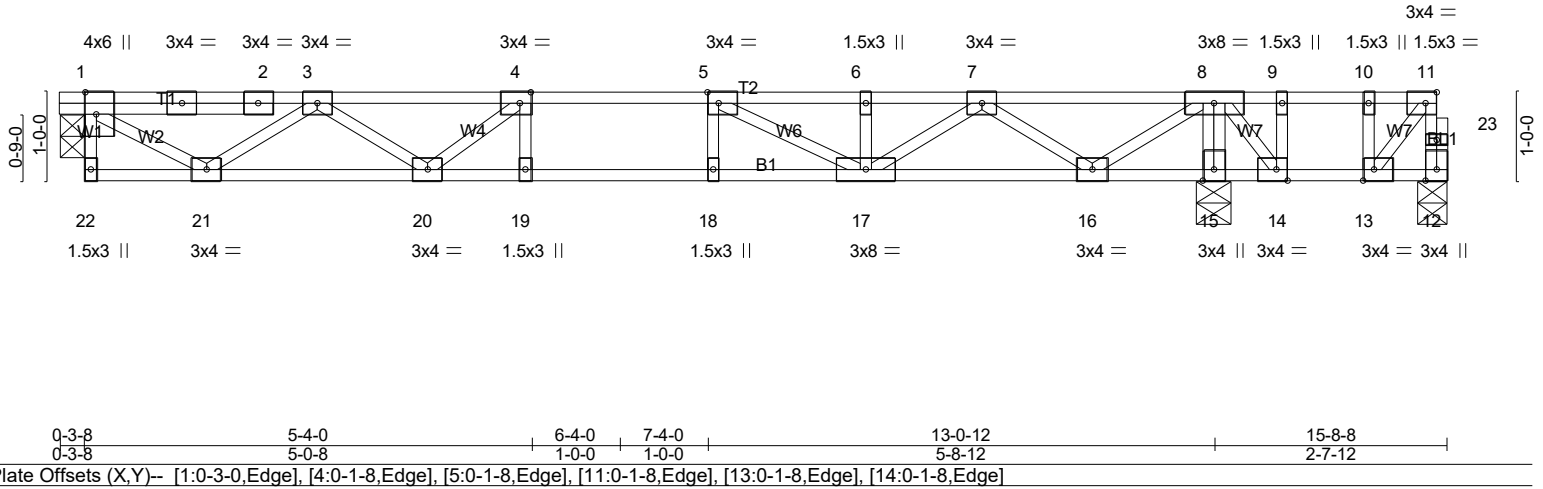
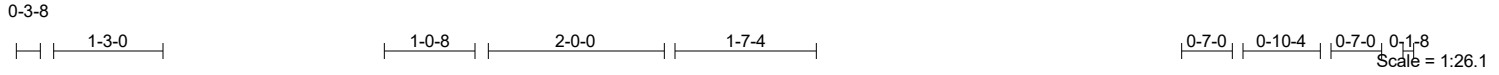


3/1/2024

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Job 24-1487-F01	Truss F117	Truss Type Floor	Qty 1	Ply 1	LOT 0.0130 BLAKE POND 95 GREAT SMOKY PLACE LILLINGTON, NC Job Reference (optional) # 46063
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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 0.26	Vert(LL)	-0.07	19	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.39	Vert(CT)	-0.09	19	>999	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.36	Horz(CT)	-0.01	12	n/a	n/a		
BCDL 5.0	Code IRC2021/TPI2014		Matrix-SH							
									Weight: 81 lb	FT = 20%F, 11%E

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

REACTIONS. (lb/size) 12=-119/0-4-0 (min. 0-1-8), 1=425/0-3-8 (min. 0-1-8), 15=807/0-4-8 (min. 0-1-8)
Max Uplift 12=-182(LC 3)
Max Grav 12=30(LC 4), 1=425(LC 10), 15=807(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 12-23=-9/252, 11-23=-9/252, 1-2=-542/0, 2-3=-540/0, 3-4=-1217/0, 4-5=-1382/0, 5-6=-1041/0, 6-7=-1041/0, 8-9=0/283, 9-10=0/283, 10-11=0/283
BOT CHORD 20-21=0/997, 19-20=0/1382, 18-19=0/1382, 17-18=0/1382, 16-17=0/669, 15-16=-557/0, 14-15=-577/0, 13-14=-283/0
WEBS 8-15=-869/0, 1-21=0/635, 3-21=-559/0, 3-20=0/276, 4-20=-281/0, 8-16=0/763, 7-16=-694/0, 7-17=0/450, 5-17=-462/0, 8-14=0/496, 11-13=-421/0

- NOTES-** (6)
1) Unbalanced floor live loads have been considered for this design.
2) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 182 lb uplift at joint 12.
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) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
5) CAUTION, Do not erect truss backwards.
6) Trusses designed with 2018 IRC also comply with 2015 IRC.

LOAD CASE(S) Standard



3/1/2024

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Job 24-1487-F01	Truss F118	Truss Type FLOOR	Qty 5	Ply 1	LOT 0.0130 BLAKE POND 95 GREAT SMOKY PLACE LILLINGTON, NC Job Reference (optional) # 46063
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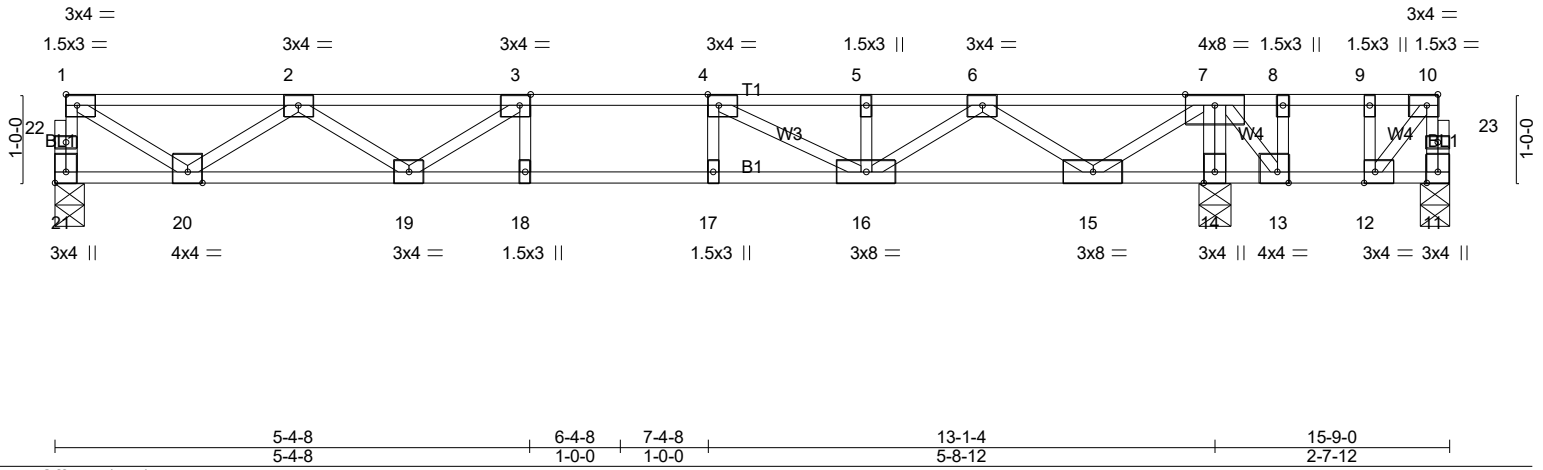
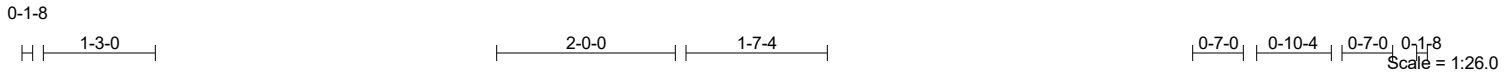


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [10:0-1-8,Edge], [12:0-1-8,Edge], [13:0-1-8,Edge], [21:Edge,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.40	Vert(LL)	-0.12	18-19	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.64	Vert(CT)	-0.16	18-19	>999		
BCLL 0.0	Lumber DOL 1.00	WB 0.56	Horz(CT)	0.02	14	n/a		
BCDL 5.0	Rep Stress Incr YES	Matrix-SH						
	Code IRC2021/TPI2014						Weight: 79 lb	FT = 20%F, 11%E

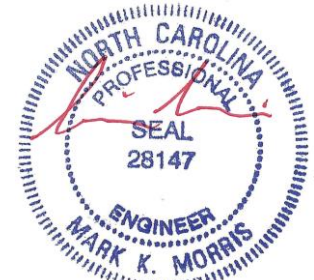
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (lb/size) 21=645/0-4-0 (min. 0-1-8), 11=-187/0-4-0 (min. 0-1-8), 14=1234/0-4-8 (min. 0-1-8)
Max Uplift 11=-282(LC 3)
Max Grav 21=646(LC 10), 11=43(LC 4), 14=1234(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 21-22=-640/0, 1-22=-639/0, 11-23=-10/390, 10-23=-10/389, 1-2=-853/0, 2-3=-1906/0, 3-4=-2166/0, 4-5=-1601/0, 5-6=-1601/0, 7-8=0/436, 8-9=0/436, 9-10=0/436
BOT CHORD 19-20=0/1596, 18-19=0/2166, 17-18=0/2166, 16-17=0/2166, 15-16=0/1024, 14-15=-856/0, 13-14=-888/0, 12-13=-436/0
WEBS 7-14=-1332/0, 1-20=0/970, 2-20=0/970, 2-19=0/394, 3-19=-429/0, 7-15=0/1175, 6-15=-1066/0, 6-16=0/697, 4-16=-748/0, 7-13=0/759, 10-12=-649/0, 8-13=-279/0

- NOTES-** (5)
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 282 lb uplift at joint 11.
 - 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) Trusses designed with 2018 IRC also comply with 2015 IRC.

LOAD CASE(S) Standard



3/1/2024

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

Job 24-1487-F01	Truss F119	Truss Type GABLE	Qty 1	Ply 1	LOT 0.0130 BLAKE POND 95 GREAT SMOKY PLACE LILLINGTON, NC Job Reference (optional) # 46063
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Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Mar 4 16:33:42 2024 Page 1
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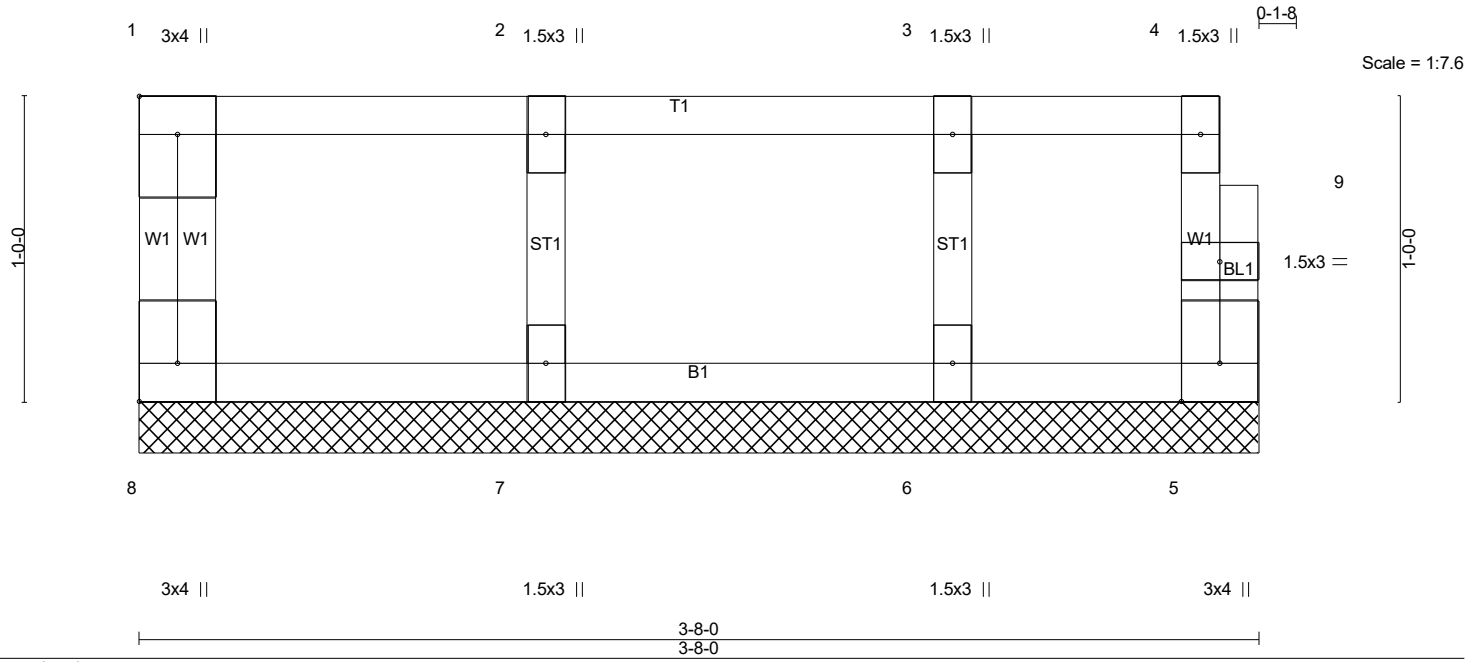


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [8:Edge,0-1-8]		CSI.		DEFL.				PLATES	GRIP
LOADING (psf)	SPACING-	2-0-0	TC	in	(loc)	l/defl	L/d	MT20	244/190
TCLL 40.0	Plate Grip DOL	1.00	0.06	Vert(LL)	n/a	-	n/a		
TCDL 10.0	Lumber DOL	1.00	0.01	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	YES	0.03	Horz(CT)	0.00	5	n/a		
BCDL 5.0	Code IRC2021/TPI2014		Matrix-R					Weight: 17 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 3-8-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	
OTHERS 2x4 SP No.3(flat)	

REACTIONS. All bearings 3-8-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 8, 5, 7, 6

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

- NOTES-** (6)
- Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 1-4-0 oc.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - CAUTION, Do not erect truss backwards.
 - Trusses designed with 2018 IRC also comply with 2015 IRC.

LOAD CASE(S) Standard



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Job 24-1487-F01	Truss F123	Truss Type Floor	Qty 5	Ply 1	LOT 0.0130 BLAKE POND 95 GREAT SMOKY PLACE LILLINGTON, NC Job Reference (optional) # 46063
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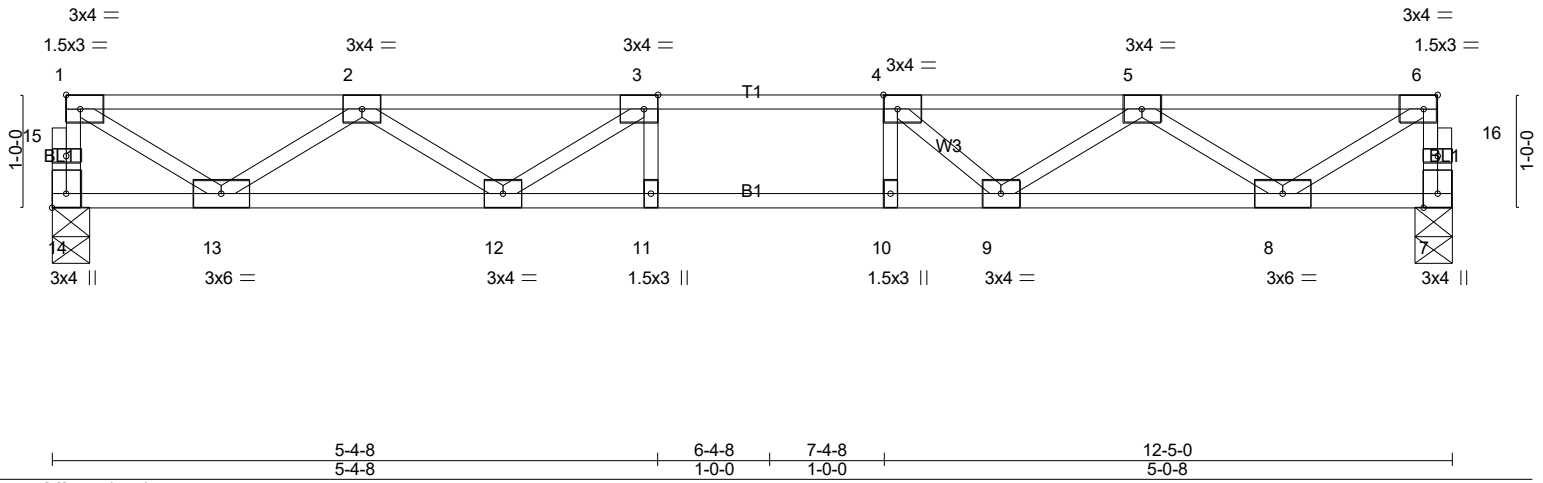
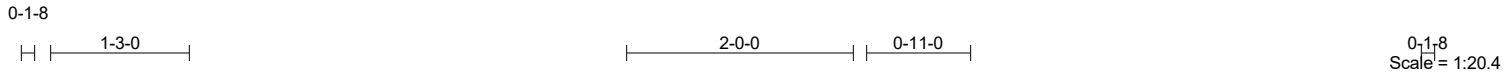


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [6:0-1-8,Edge], [14:Edge,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.31	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.64	Vert(LL) -0.11 11-12 >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.48	Vert(CT) -0.15 11-12 >987 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.03 7 n/a n/a		
	Code IRC2021/TPI2014			Weight: 60 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=663/0-4-0 (min. 0-1-8), 7=663/0-4-0 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 14-15=-657/0, 1-15=-656/0, 7-16=-659/0, 6-16=-657/0, 1-2=-878/0, 2-3=-1980/0, 3-4=-2283/0, 4-5=-1994/0, 5-6=-874/0
BOT CHORD 12-13=0/1642, 11-12=0/2283, 10-11=0/2283, 9-10=0/2283, 8-9=0/1628
WEBS 1-13=0/999, 2-13=-933/0, 2-12=0/440, 3-12=-502/0, 6-8=0/994, 5-8=-921/0, 5-9=0/488, 4-9=-525/0

NOTES- (3)
1) Unbalanced floor live loads have been considered for this design.
2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
3) Trusses designed with 2018 IRC also comply with 2015 IRC.

LOAD CASE(S) Standard



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Job 24-1487-F01	Truss F124	Truss Type Floor Supported Gable	Qty 1	Ply 1	LOT 0.0130 BLAKE POND 95 GREAT SMOKY PLACE LILLINGTON, NC Job Reference (optional) # 46063
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0₁8

Scale = 1:20.4

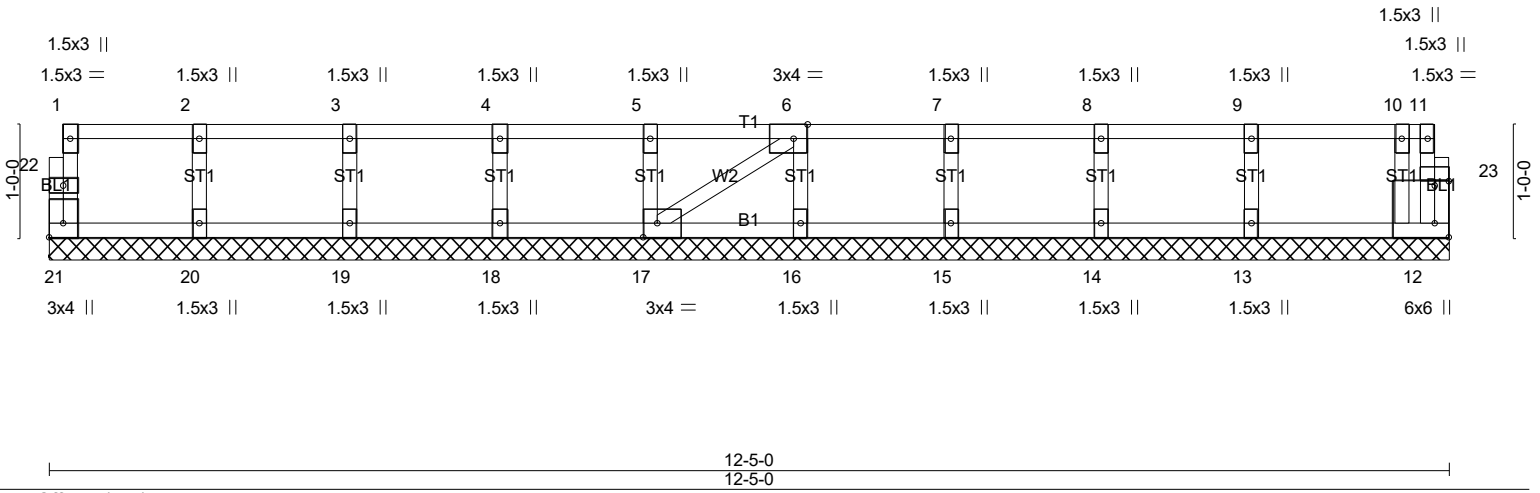


Plate Offsets (X,Y)-- [6:0-1-8,Edge], [12:Edge,0-1-8], [17:0-1-8,Edge], [21:Edge,0-1-8], [23:0-1-8,0-8]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.06	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.01	Vert(CT) n/a - 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: 53 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)

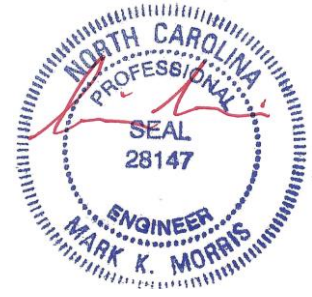
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-5-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 21, 12, 20, 19, 18, 17, 16, 15, 14, 13

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

- NOTES-** (5)
- Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 1-4-0 oc.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - Trusses designed with 2018 IRC also comply with 2015 IRC.

LOAD CASE(S) Standard



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Job 24-1487-F01	Truss F126	Truss Type GABLE	Qty 2	Ply 1	LOT 0.0130 BLAKE POND 95 GREAT SMOKY PLACE LILLINGTON, NC Job Reference (optional) # 46063
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0-3-0

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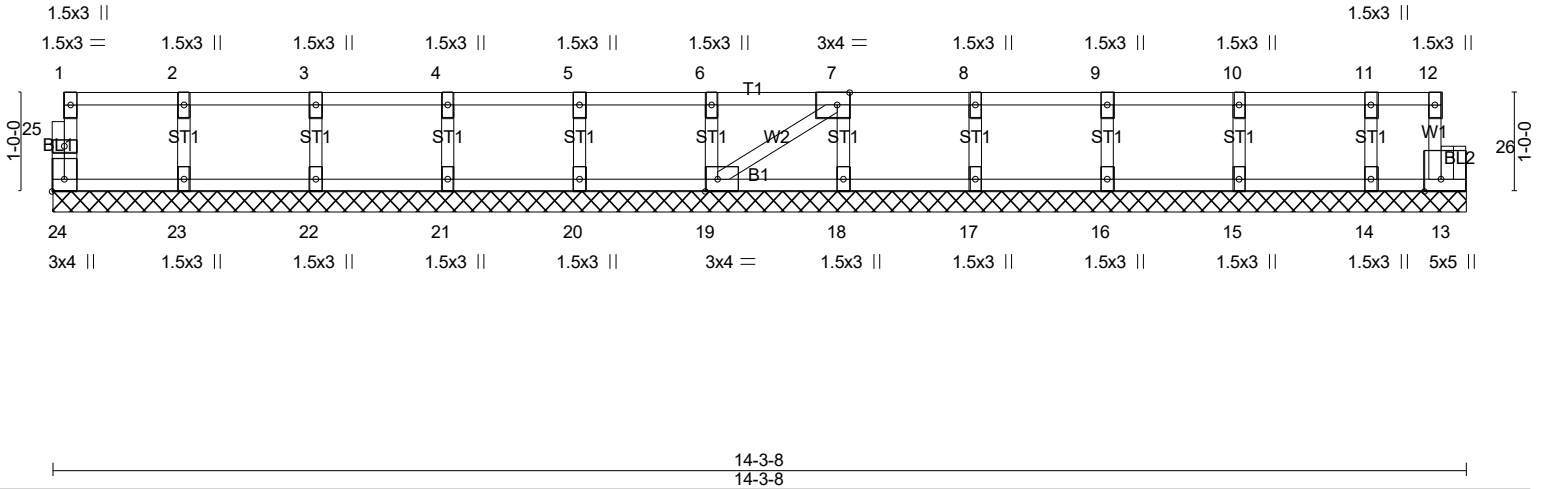


Plate Offsets (X,Y)-- [7:0-1-8,Edge], [13:0-1-8,Edge], [19:0-1-8,Edge], [24:Edge,0-1-8]

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: 59 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 14-3-8.
(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-** (5)
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) Trusses designed with 2018 IRC also comply with 2015 IRC.

LOAD CASE(S) Standard

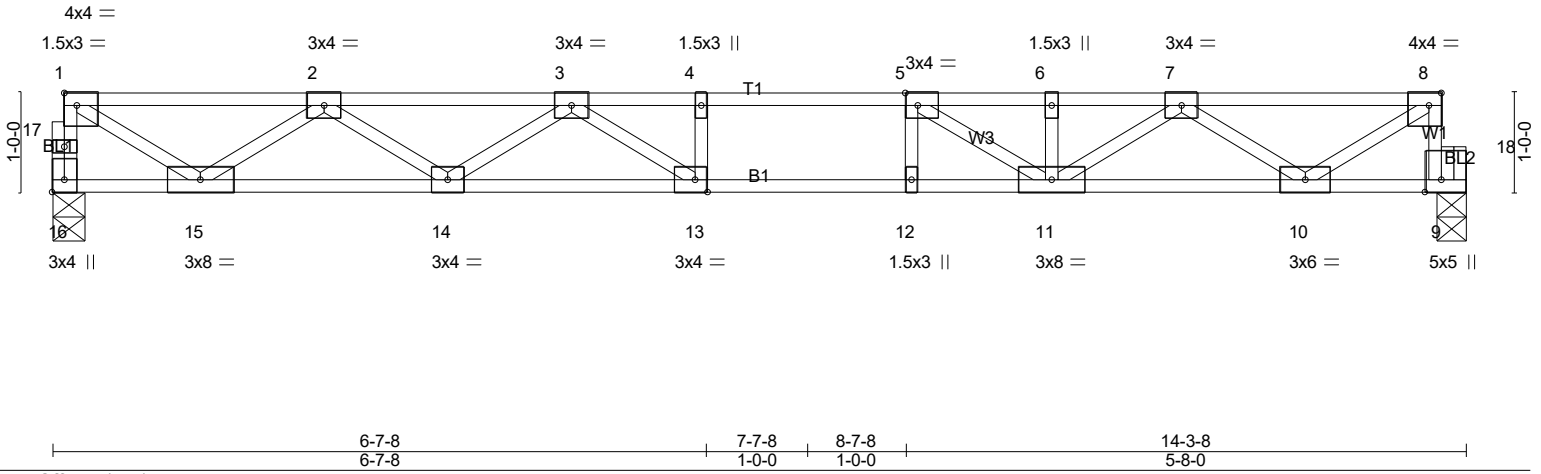
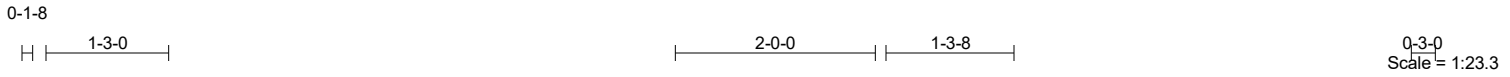


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Job 24-1487-F01	Truss F127	Truss Type Floor	Qty 8	Ply 1	LOT 0.0130 BLAKE POND 95 GREAT SMOKY PLACE LILLINGTON, NC Job Reference (optional) # 46063
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.47	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.73	Vert(LL) -0.18 13-14 >926 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.56	Vert(CT) -0.25 13-14 >671 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.04 9 n/a n/a		
	Code IRC2021/TPI2014			Weight: 69 lb	FT = 20%F, 11%E

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

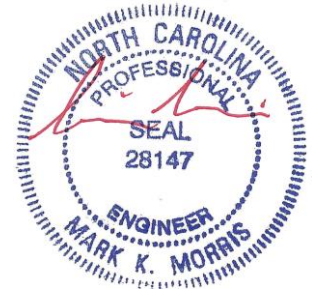
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 16=763/0-4-0 (min. 0-1-8), 9=756/0-3-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 16-17=-756/0, 1-17=-754/0, 9-18=-750/0, 8-18=-753/0, 1-2=-1030/0, 2-3=-2428/0, 3-4=-3002/0, 4-5=-3002/0, 5-6=-2480/0, 6-7=-2480/0, 7-8=-1073/0
BOT CHORD 14-15=0/1938, 13-14=0/2860, 12-13=0/3002, 11-12=0/3002, 10-11=0/1957
WEBS 1-15=0/1173, 2-15=-1108/0, 2-14=0/598, 3-14=-528/0, 3-13=-93/483, 8-10=0/1161, 7-10=-1079/0, 7-11=0/629, 5-11=-819/0

NOTES- (3)
1) Unbalanced floor live loads have been considered for this design.
2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
3) Trusses designed with 2018 IRC also comply with 2015 IRC.

LOAD CASE(S) Standard



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