

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 #: 46675

JOB: 24-2119-F02

JOB NAME: LOT 0.0105 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.

16 Truss Design(s)

Trusses:

F201, F202, F203, F204, F206, F207, F208, F209, F210, F211, F212, F213, F214, F215, F216, F217



3/18/2024

Mark Morris

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0105 BLAKE POND 92 FROST MEADOW WAY LILLINGTON, NC
24-2119-F02	F201	Floor Supported Gable	1	1	Job Reference (optional) # 46675

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Mar 18 20:48:07 2024 Page 1
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Scale = 1:28.7

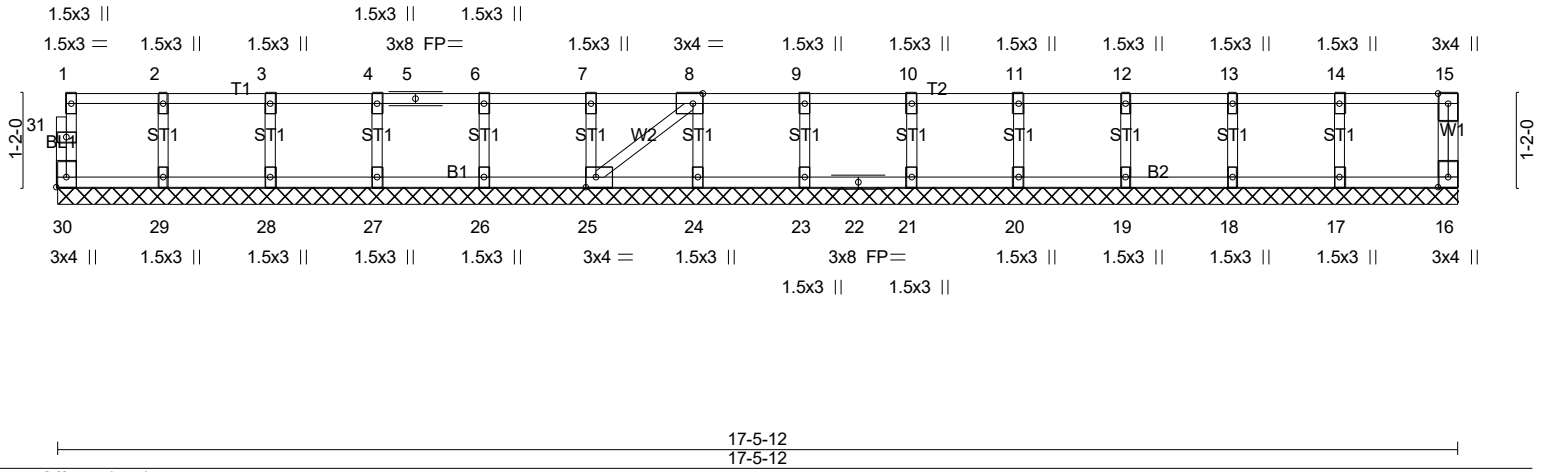


Plate Offsets (X,Y)-- [8:0-1-8,Edge], [25:0-1-8,Edge], [30:Edge,0-1-8]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.07	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.01	Vert(CT) n/a - n/a 999		
BCLL 0.0	Rep Stress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

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

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

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

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

LOAD CASE(S) Standard



3/18/2024

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Job 24-2119-F02	Truss F202	Truss Type Floor	Qty 6	Ply 1	LOT 0.0105 BLAKE POND 92 FROST MEADOW WAY LILLINGTON, NC Job Reference (optional) # 46675
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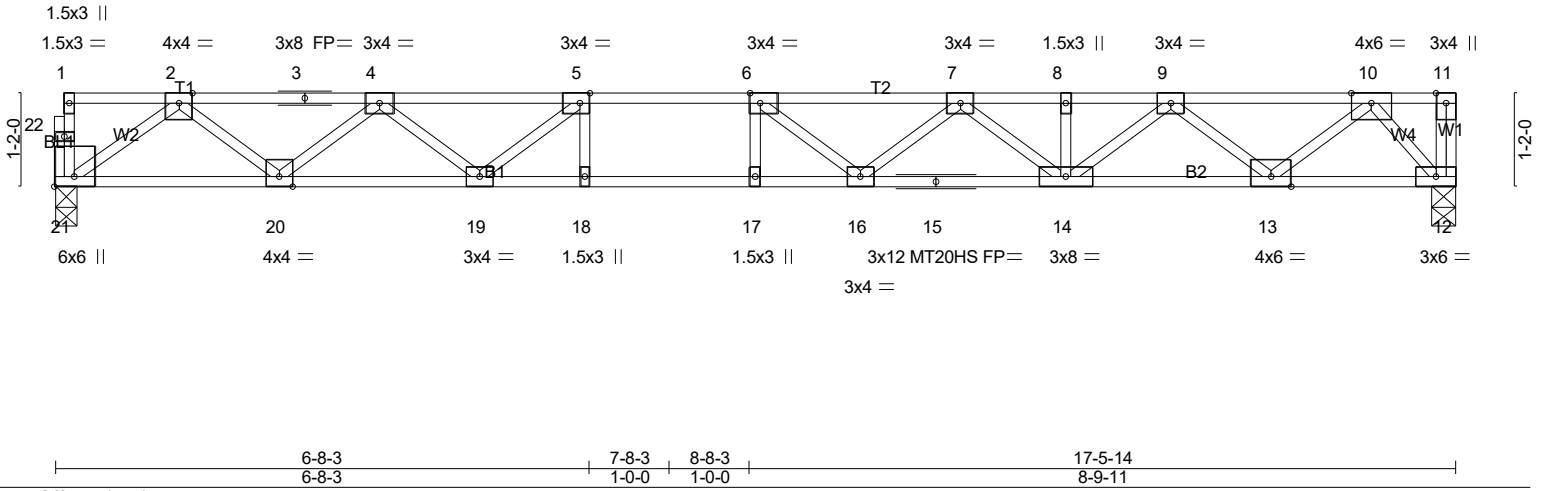


Plate Offsets (X,Y)-- [5:0-1-8,Edge], [6:0-1-8,Edge], [21:Edge,0-3-0]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.64	Vert(LL) -0.30 16-17 >697 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.79	Vert(CT) -0.41 16-17 >507 360	MT20HS	187/143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

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

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

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

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

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

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

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

LOAD CASE(S) Standard

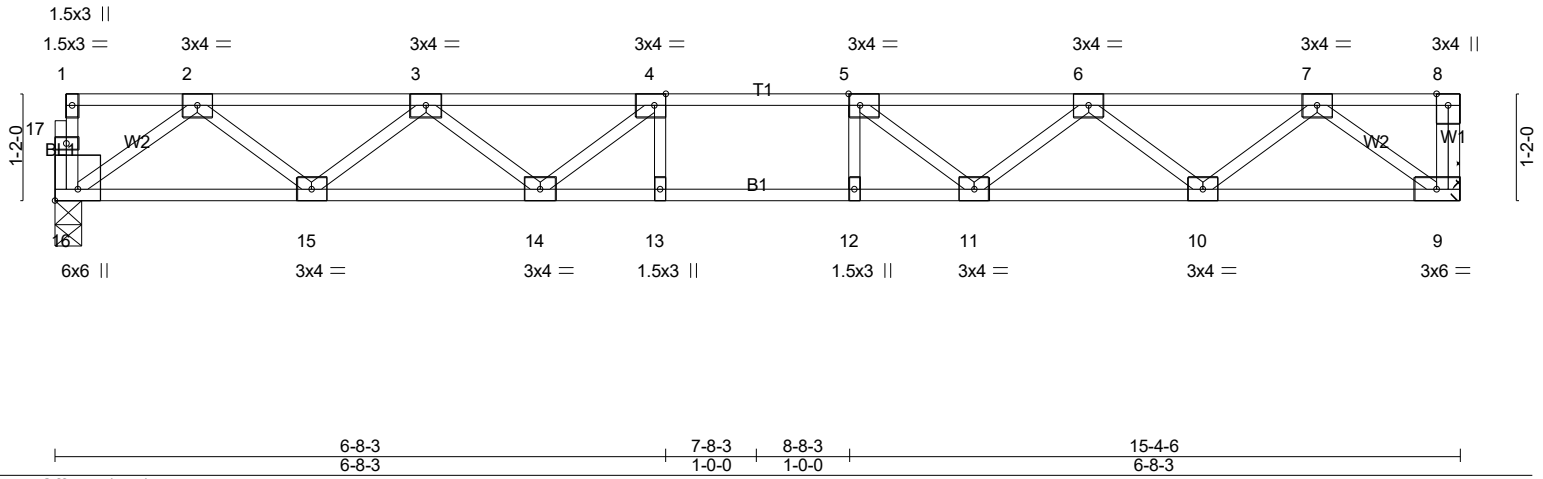
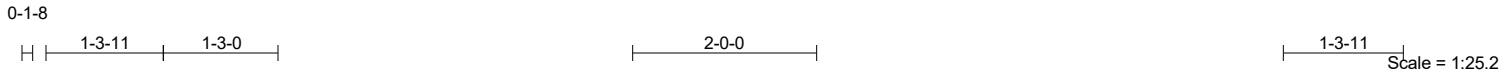


3/18/2024

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Job 24-2119-F02	Truss F203	Truss Type FLOOR	Qty 5	Ply 1	LOT 0.0105 BLAKE POND 92 FROST MEADOW WAY LILLINGTON, NC Job Reference (optional) # 46675
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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 0.24	Vert(LL)	-0.11 11-12	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.51	Vert(CT)	-0.15 12-13	>999	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.28	Horz(CT)	0.03 9	n/a	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-SH						
								Weight: 77 lb	FT = 20%F, 11%E

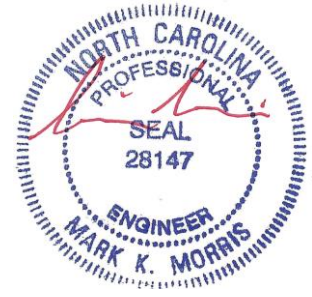
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (lb/size) 16=550/0-3-8 (min. 0-1-8), 9=554/Mechanical

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1153/0, 3-4=-1785/0, 4-5=-1990/0, 5-6=-1785/0, 6-7=-1154/0
 BOT CHORD 15-16=0/707, 14-15=0/1576, 13-14=0/1990, 12-13=0/1990, 11-12=0/1990, 10-11=0/1576, 9-10=0/708
 WEBS 4-14=-387/0, 3-14=0/314, 3-15=-550/0, 2-15=0/580, 2-16=-873/0, 5-11=-387/0, 6-11=0/314, 6-10=-550/0, 7-10=0/580, 7-9=-875/0

- NOTES-** (6)
- Unbalanced floor live loads have been considered for this design.
 - Refer to girder(s) for truss to truss connections.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 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.
 - CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

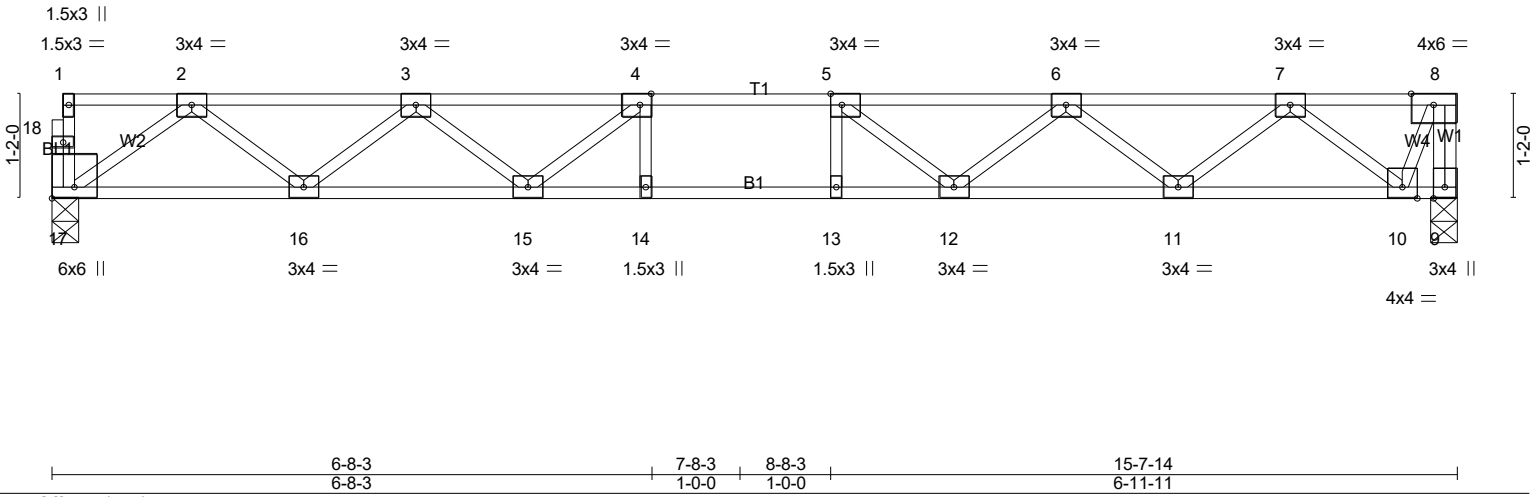
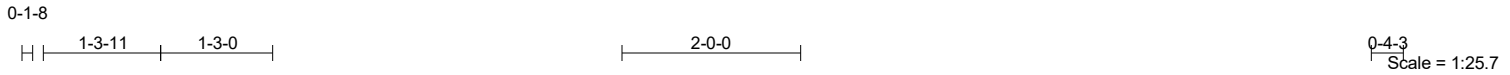


3/18/2024

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Job 24-2119-F02	Truss F204	Truss Type Floor	Qty 5	Ply 1	LOT 0.0105 BLAKE POND 92 FROST MEADOW WAY LILLINGTON, NC Job Reference (optional) # 46675
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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)	-0.12 12-13	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.56	Vert(CT)	-0.16 12-13	>999	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.28	Horz(CT)	0.03 9	n/a	n/a		
BCDL 5.0	Code IRC2018/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)

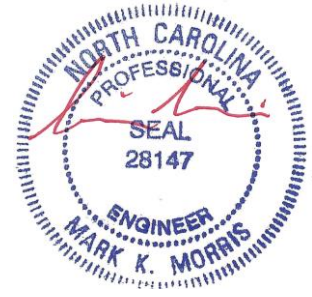
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 9=565/0-3-8 (min. 0-1-8), 17=561/0-3-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 8-9=-566/0, 2-3=-1181/0, 3-4=-1839/0, 4-5=-2067/0, 5-6=-1886/0, 6-7=-1281/0
BOT CHORD 16-17=0/723, 15-16=0/1614, 14-15=0/2067, 13-14=0/2067, 12-13=0/2067, 11-12=0/1691, 10-11=0/851
WEBS 4-15=-413/0, 3-15=0/330, 3-16=-565/0, 2-16=0/596, 2-17=-891/0, 5-12=-371/0, 6-12=0/305, 6-11=-533/0, 7-11=0/559, 7-10=-798/0, 8-10=0/576

- NOTES-** (5)
- Unbalanced floor live loads have been considered for this design.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 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.
 - CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



3/18/2024

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Job 24-2119-F02	Truss F206	Truss Type Floor	Qty 6	Ply 1	LOT 0.0105 BLAKE POND 92 FROST MEADOW WAY LILLINGTON, NC Job Reference (optional) # 46675
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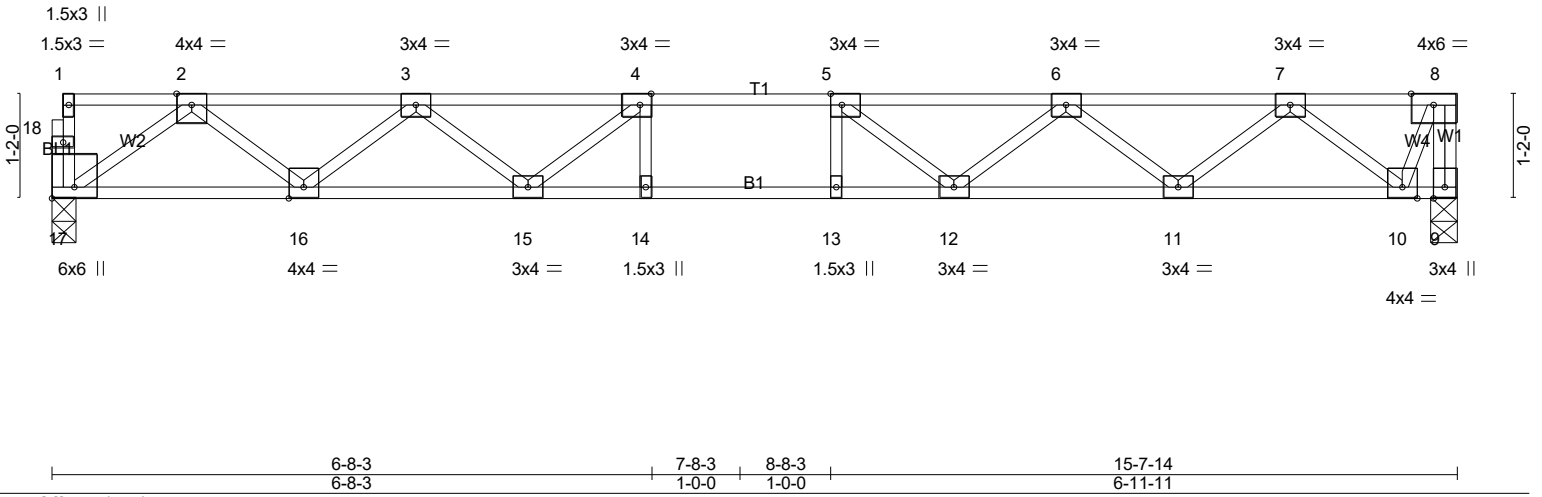
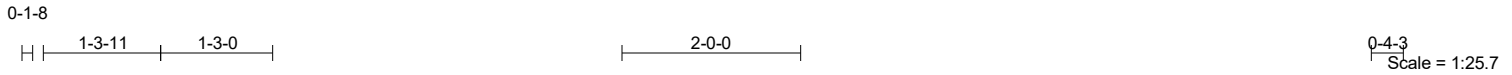


Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [17:Edge,0-3-0]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.41	Vert(LL) -0.18 12-13 >999 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.83	Vert(CT) -0.24 12-13 >772 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.43	Horz(CT) 0.05 9 n/a n/a		
BCDL 5.0	Code IRC2021/TPI2014	Matrix-SH		Weight: 79 lb	FT = 20%F, 11%E

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

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

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

TOP CHORD 8-9=-849/0, 2-3=-1771/0, 3-4=-2758/0, 4-5=-3101/0, 5-6=-2829/0, 6-7=-1921/0, 7-8=-358/0

BOT CHORD 16-17=0/1084, 15-16=0/2422, 14-15=0/3101, 13-14=0/3101, 12-13=0/3101, 11-12=0/2536, 10-11=0/1277

WEBS 4-15=-620/0, 3-15=0/496, 3-16=-847/0, 2-16=0/894, 2-17=-1337/0, 5-12=-556/0, 6-12=0/457, 6-11=-800/0, 7-11=0/839, 7-10=-1197/0, 8-10=0/864

NOTES- (4)

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

LOAD CASE(S) Standard



3/18/2024

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Job 24-2119-F02	Truss F207	Truss Type Floor Supported Gable	Qty 1	Ply 1	LOT 0.0105 BLAKE POND 92 FROST MEADOW WAY LILLINGTON, NC Job Reference (optional) # 46675
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0-1-8

Scale = 1:25.7

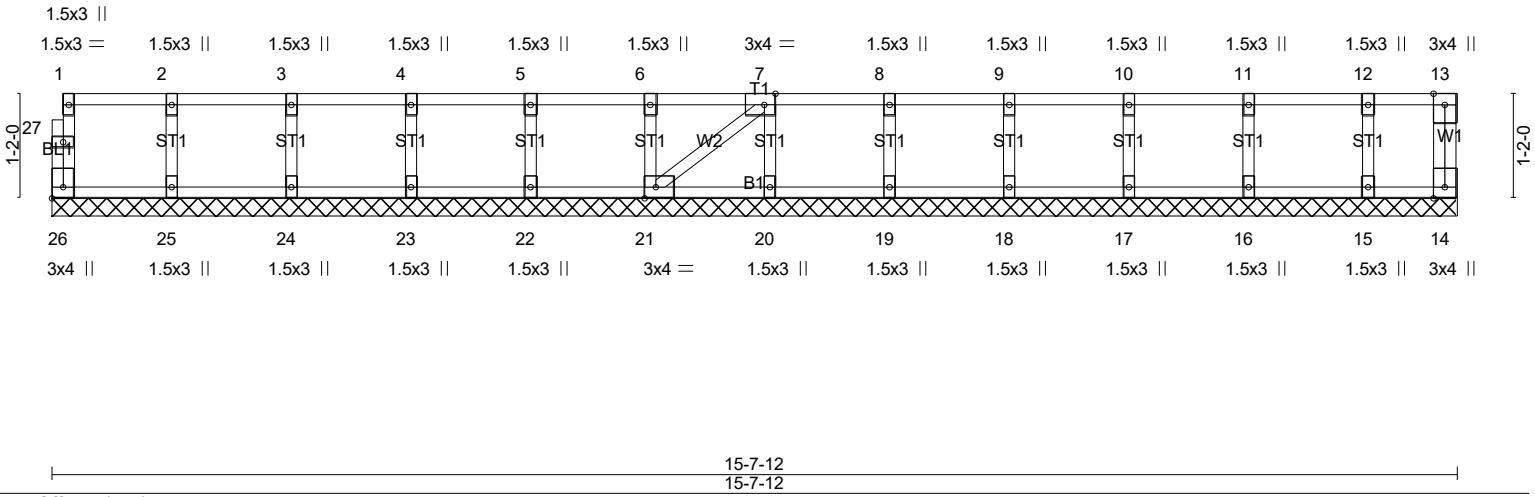


Plate Offsets (X,Y)-- [7:0-1-8,Edge], [21:0-1-8,Edge], [26:Edge,0-1-8]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.06	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.01	Vert(CT) n/a - n/a 999		
BCLL 0.0	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.00 14 n/a n/a		
BCDL 5.0	Code IRC2021/TPI2014	Matrix-SH		Weight: 69 lb	FT = 20%F, 11%E

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

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

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

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

LOAD CASE(S) Standard



3/18/2024

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0105 BLAKE POND 92 FROST MEADOW WAY LILLINGTON, NC
24-2119-F02	F208	Floor Supported Gable	1	1	Job Reference (optional) # 46675

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0₁-8

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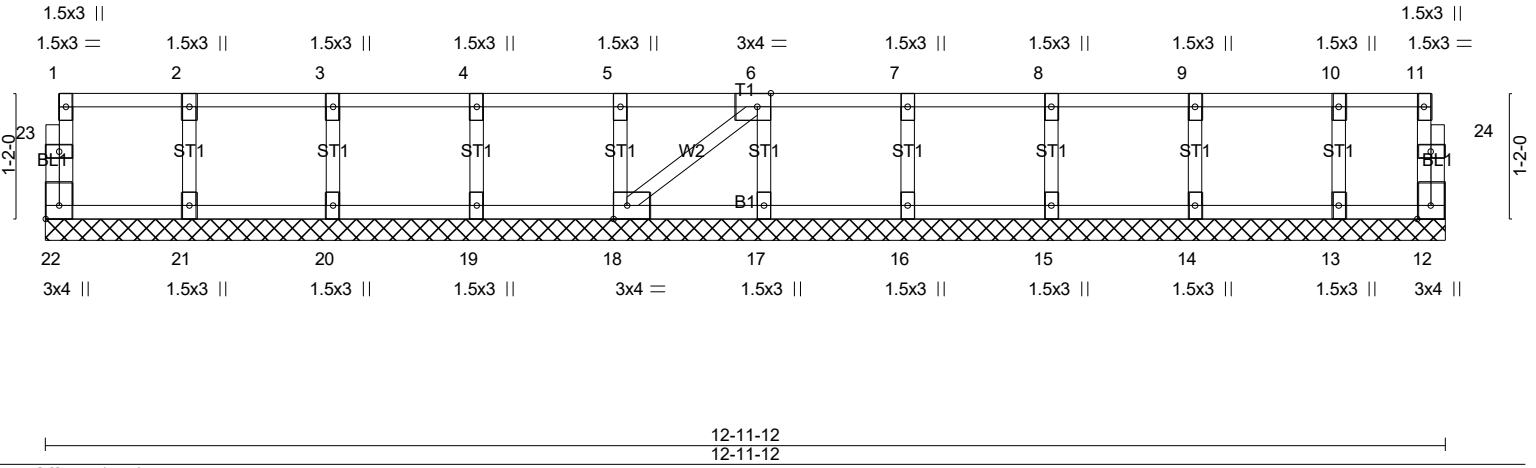


Plate Offsets (X,Y)-- [6:0-1-8,Edge], [18:0-1-8,Edge], [22:Edge,0-1-8]

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	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	12	n/a		
BCDL 5.0	Code IRC2021/TPI2014		Matrix-SH					Weight: 58 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 12-11-12.
 (lb) - 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- (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.

LOAD CASE(S) Standard

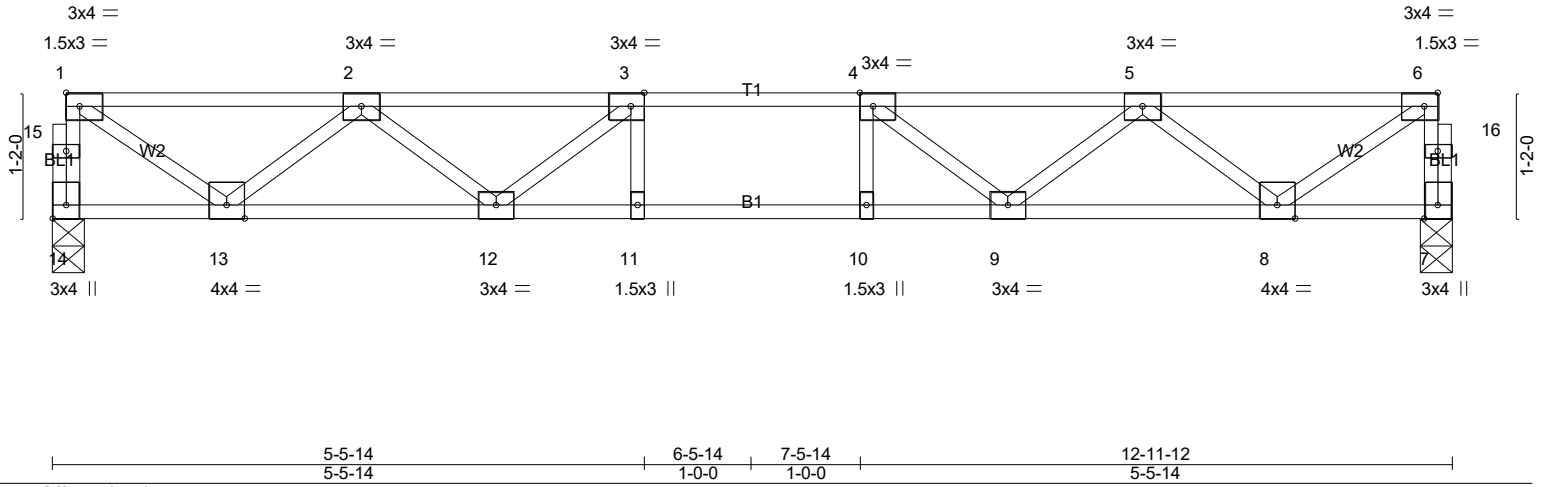
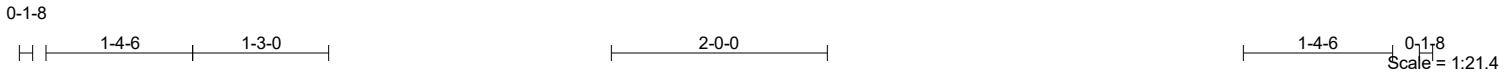


3/18/2024

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0105 BLAKE POND 92 FROST MEADOW WAY LILLINGTON, NC
24-2119-F02	F209	Floor	2	1	Job Reference (optional) # 46675

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Mar 18 20:48:14 2024 Page 1
 ID:pMqJz?gO_6c5LWiSiGO4QyyWlk-BSXrvXExIRSbtP9o1LiE0iOZU?cB0SV88tU9izZbml



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

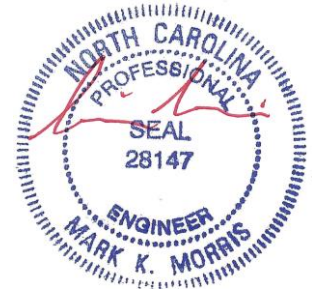
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

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

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

LOAD CASE(S) Standard

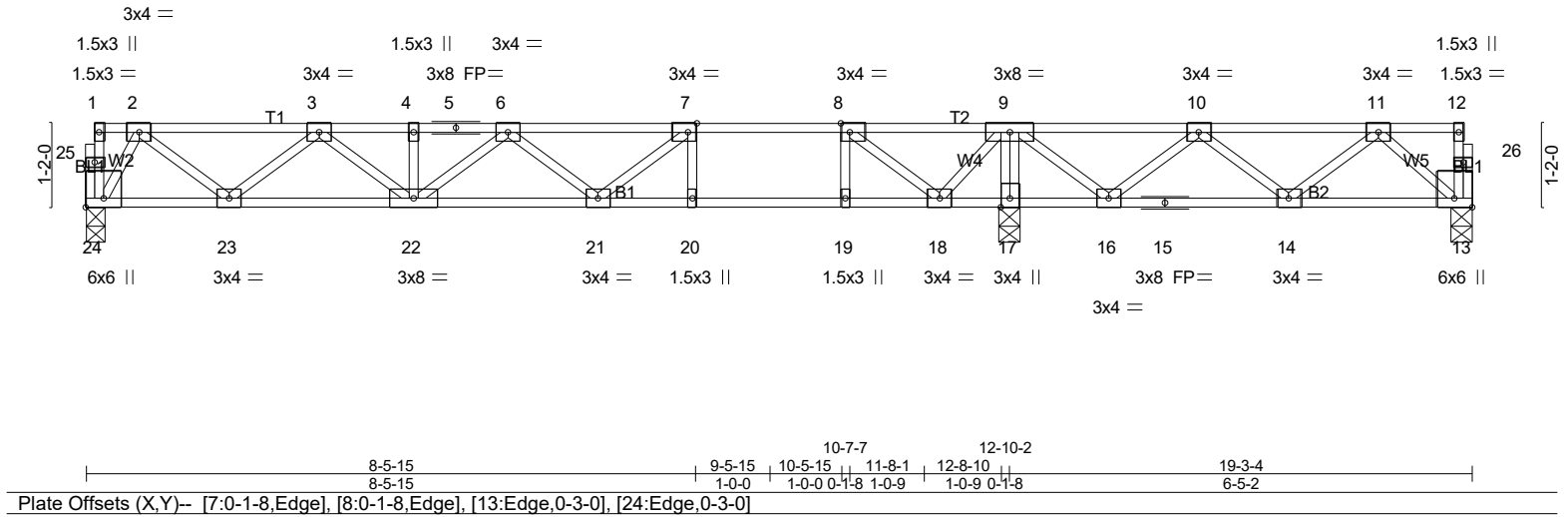
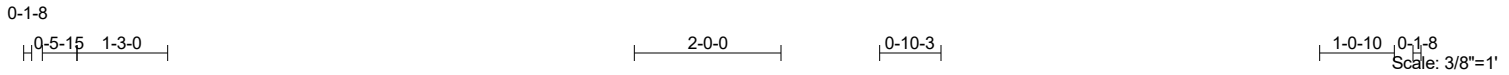


3/18/2024

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Job 24-2119-F02	Truss F210	Truss Type Floor	Qty 2	Ply 1	LOT 0.0105 BLAKE POND 92 FROST MEADOW WAY LILLINGTON, NC Job Reference (optional) # 46675
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.83	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.88	Vert(LL) -0.25 20-21 >612 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.38	Vert(CT) -0.34 20-21 >451 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.03 13 n/a n/a		
	Code IRC2021/TPI2014			Weight: 100 lb	FT = 20%F, 11%E

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

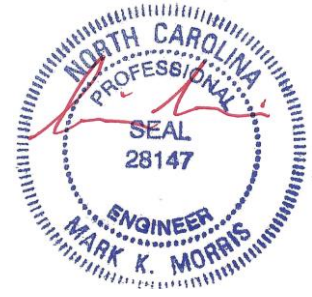
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 17-18,16-17.

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

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

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

LOAD CASE(S) Standard



3/18/2024

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Job 24-2119-F02	Truss F211	Truss Type Floor	Qty 5	Ply 1	LOT 0.0105 BLAKE POND 92 FROST MEADOW WAY LILLINGTON, NC Job Reference (optional) # 46675
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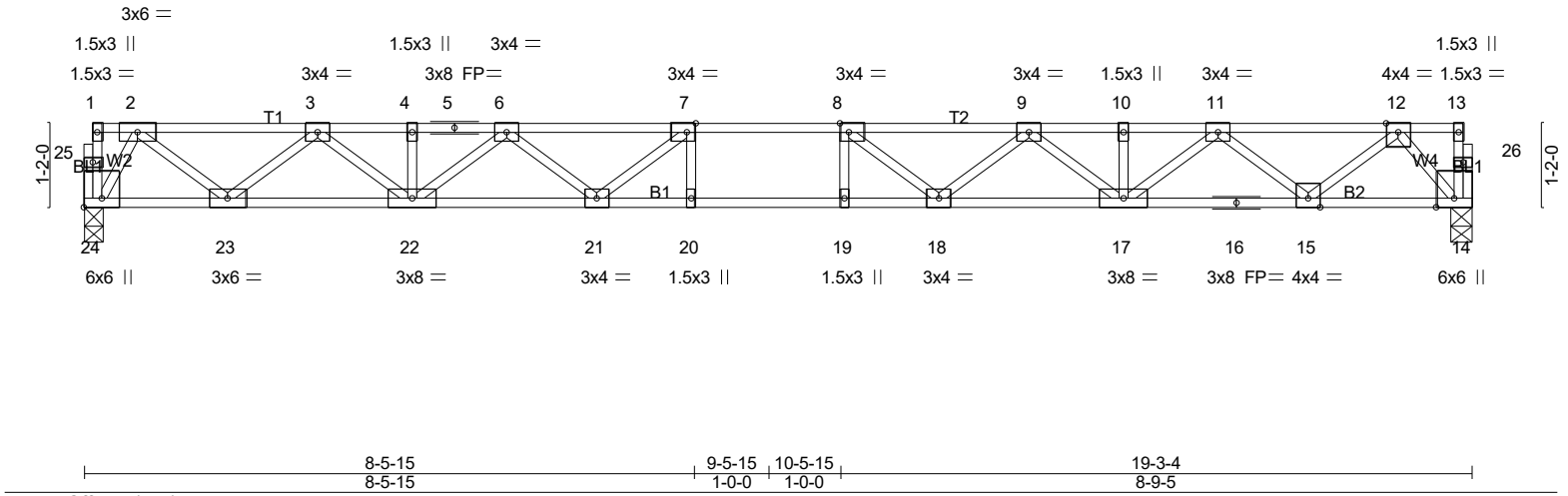
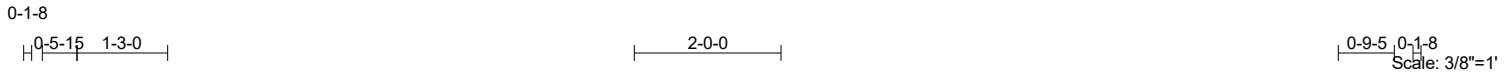


Plate Offsets (X,Y)-- [7:0-1-8,Edge], [8:0-1-8,Edge], [24:Edge,0-3-0]					
LOADING (psf)	SPACING- 1-7-3	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.46	Vert(LL) -0.31 19-20 >747 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.92	Vert(CT) -0.42 19-20 >542 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.50	Horz(CT) 0.07 14 n/a n/a		
BCDL 5.0	Code IRC2021/TPI2014	Matrix-SH		Weight: 98 lb	FT = 20%F, 11%E

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

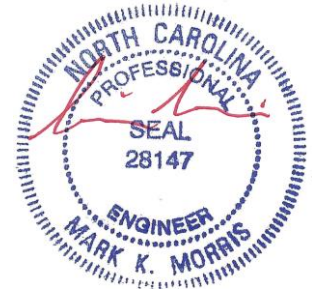
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 19-20.

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

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

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

LOAD CASE(S) Standard

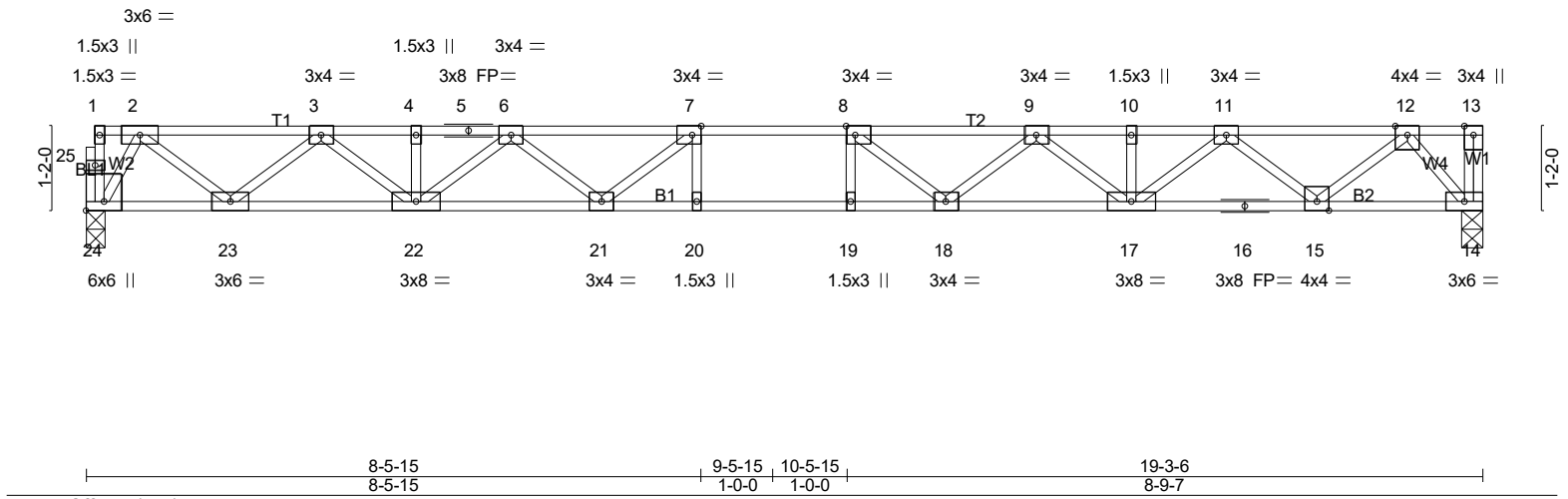
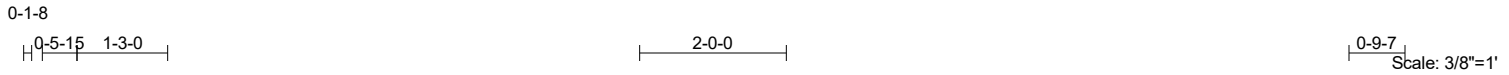


3/18/2024

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Job 24-2119-F02	Truss F212	Truss Type Floor	Qty 5	Ply 1	LOT 0.0105 BLAKE POND 92 FROST MEADOW WAY LILLINGTON, NC Job Reference (optional) # 46675
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Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Mar 18 20:48:19 2024 Page 1
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	1-7-3	TC 0.46	Vert(LL)	-0.31	19-20	>745	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.92	Vert(CT)	-0.42	19-20	>541		
BCLL 0.0	Lumber DOL 1.00	WB 0.50	Horz(CT)	0.07	14	n/a		
BCDL 5.0	Rep Stress Incr YES	Matrix-SH						
	Code IRC2021/TPI2014						Weight: 99 lb	FT = 20%F, 11%E

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

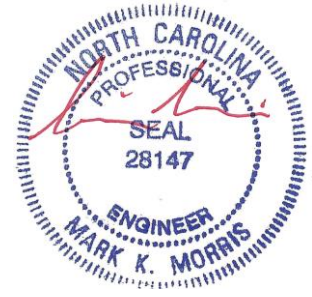
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 19-20.

REACTIONS. (lb/size) 24=832/0-3-6 (min. 0-1-8), 14=837/0-3-8 (min. 0-1-8)

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

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

LOAD CASE(S) Standard



3/18/2024

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0105 BLAKE POND 92 FROST MEADOW WAY LILLINGTON, NC
24-2119-F02	F213	Floor	3	1	# 46675

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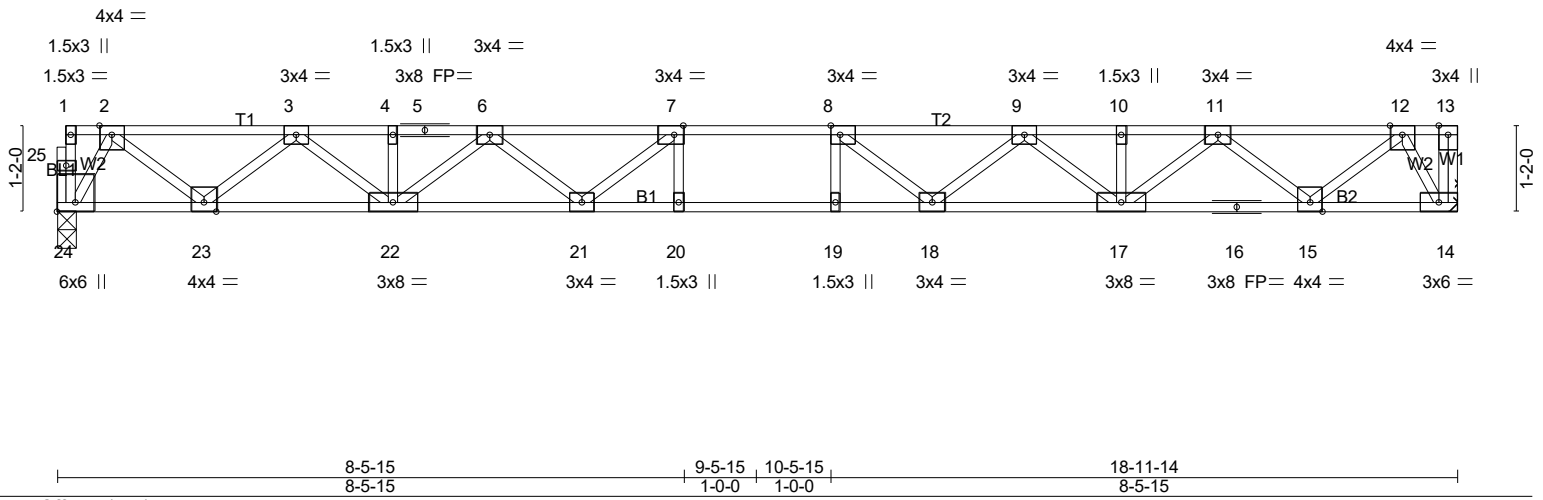
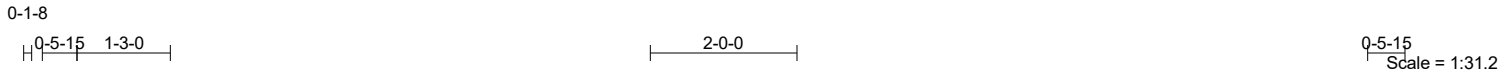


Plate Offsets (X,Y)-- [7:0-1-8,Edge], [8:0-1-8,Edge], [24:Edge,0-3-0]

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

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

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

REACTIONS. (lb/size) 24=819/0-3-6 (min. 0-1-8), 14=824/Mechanical

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

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

LOAD CASE(S) Standard



3/18/2024

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Job 24-2119-F02	Truss F214	Truss Type FLOOR	Qty 1	Ply 1	LOT 0.0105 BLAKE POND 92 FROST MEADOW WAY LILLINGTON, NC Job Reference (optional) # 46675
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Scale = 1:11.5

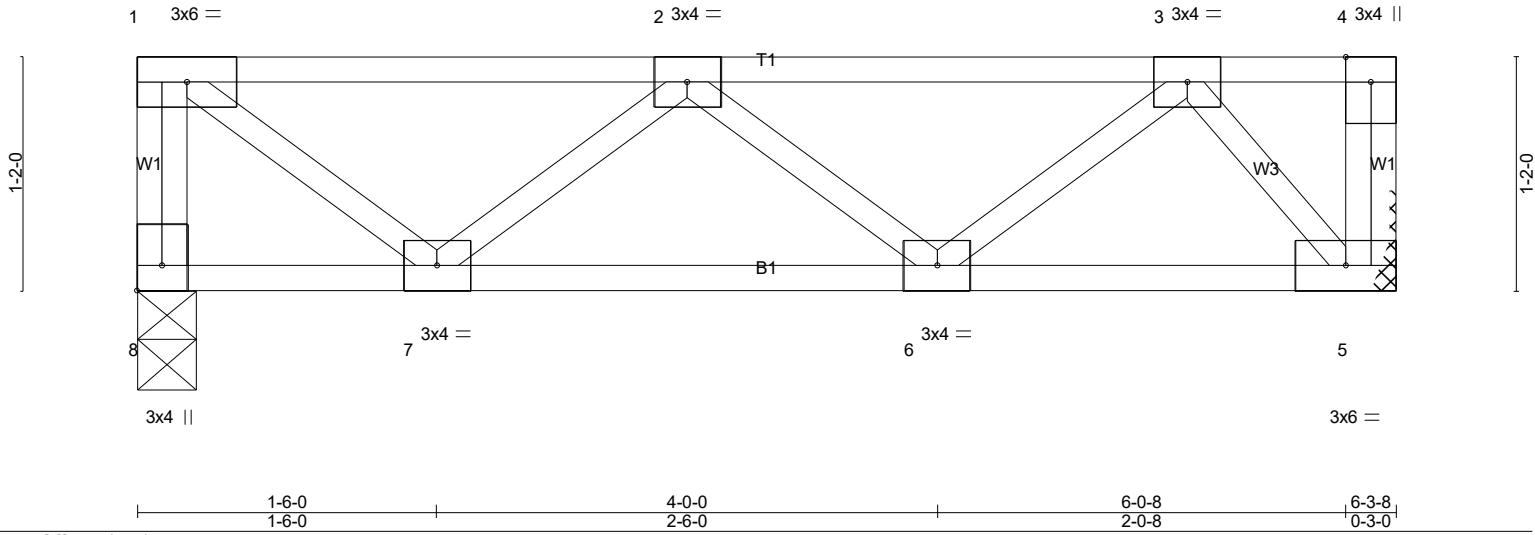


Plate Offsets (X,Y)-- [8:Edge,0-1-8]							
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP		
TCLL 40.0	2-0-0	TC 0.28	in (loc) l/defl L/d	MT20	244/190		
TCDL 10.0	Plate Grip DOL 1.00	BC 0.12	Vert(LL) -0.01 6 >999 480				
BCLL 0.0	Lumber DOL 1.00	WB 0.18	Vert(CT) -0.01 6-7 >999 360				
BCDL 5.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 5 n/a n/a				
	Code IRC2021/TPI2014					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)

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

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-327/0, 1-2=-295/0, 2-3=-422/0
BOT CHORD 6-7=0/538, 5-6=0/275
WEBS 1-7=0/370, 2-7=-317/0, 3-5=-416/0

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

LOAD CASE(S) Standard



3/18/2024

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Job 24-2119-F02	Truss F215	Truss Type FLOOR	Qty 6	Ply 1	LOT 0.0105 BLAKE POND 92 FROST MEADOW WAY LILLINGTON, NC Job Reference (optional) # 46675
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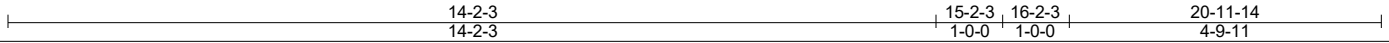
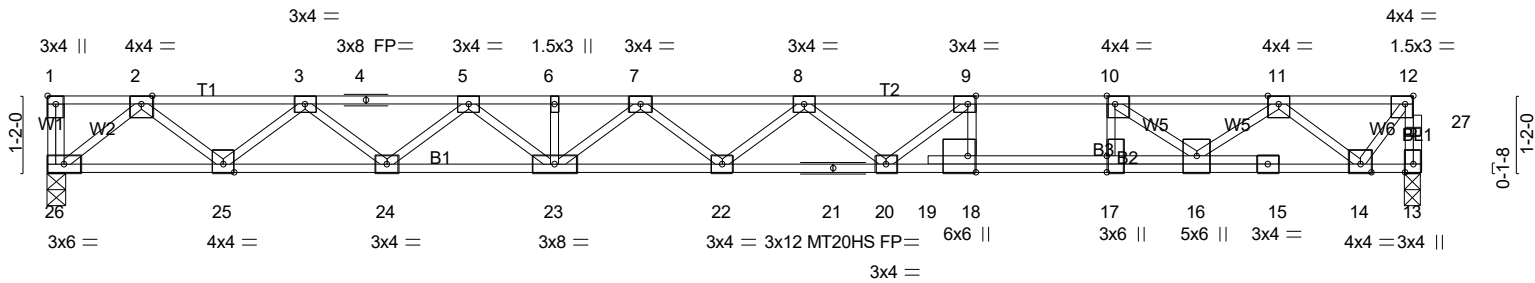


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [9:0-1-8,Edge], [10:0-1-8,Edge], [12:0-1-8,Edge], [17:0-3-0,0-0-0], [18:0-3-0,Edge]

LOADING (psf)	SPACING-	1-6-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.64	Vert(LL)	-0.43	22	>575	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 1.00	Vert(CT)	-0.60	22	>418	360	MT20HS	187/143
BCLL 0.0	Rep Stress Incr	YES	WB 0.49	Horz(CT)	0.08	13	n/a	n/a		
BCDL 5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 113 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 5-7-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 18-20.

REACTIONS. (lb/size) 26=856/0-3-8 (min. 0-1-8), 13=851/0-3-6 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 13-27=-853/0, 12-27=-851/0, 2-3=-1815/0, 3-4=-3107/0, 4-5=-3107/0, 5-6=-3947/0, 6-7=-3947/0, 7-8=-4218/0, 8-9=-4008/0, 9-10=-3550/0, 10-11=-2316/0, 11-12=-615/0
BOT CHORD 25-26=0/1025, 24-25=0/2580, 23-24=0/3613, 22-23=0/4175, 21-22=0/4253, 20-21=0/4253, 19-20=0/3550, 18-19=0/3522, 17-18=0/3550, 16-17=0/3550, 15-16=0/1537, 14-15=0/1538
WEBS 9-18=-545/0, 10-17=0/736, 9-20=-24/716, 8-20=-363/31, 7-23=-292/0, 5-23=0/426, 5-24=-659/0, 3-24=0/685, 3-25=-996/0, 2-25=0/1028, 2-26=-1311/0, 10-16=-1540/0, 11-16=0/987, 11-14=-1202/0, 12-14=0/969

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

LOAD CASE(S) Standard



3/18/2024

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Job 24-2119-F02	Truss F216	Truss Type FLOOR SUPPORTED GABL	Qty 1	Ply 1	LOT 0.0105 BLAKE POND 92 FROST MEADOW WAY LILLINGTON, NC Job Reference (optional) # 46675
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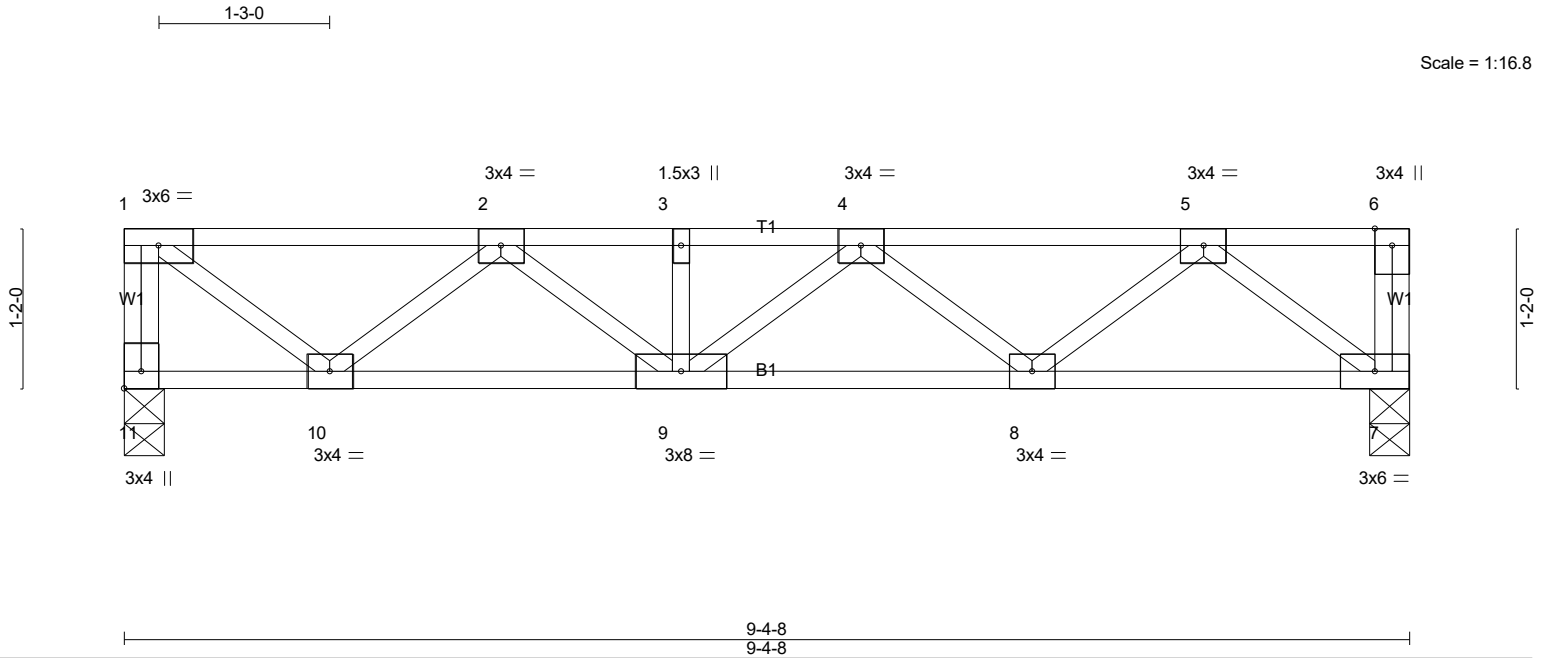


Plate Offsets (X,Y)-- [11:Edge,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.32	Vert(LL)	-0.02	9	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.24	Vert(CT)	-0.03	8-9	>999	360		
BCLL 0.0	Rep Stress Incr	NO	WB 0.31	Horz(CT)	0.01	7	n/a	n/a		
BCDL 5.0	Code IRC2021/TPI2014		Matrix-SH							
									Weight: 51 lb	FT = 20%F, 11%E

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 10-11.

REACTIONS. (lb/size) 11=502/0-3-8 (min. 0-1-8), 7=502/0-3-8 (min. 0-1-8)
Max Uplift 11=-56(LC 6), 7=-56(LC 7)
Max Grav 11=528(LC 3), 7=528(LC 2)

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

NOTES- (5)
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 56 lb uplift at joint 11 and 56 lb uplift at joint 7.
3) This truss has been designed for a total drag load of 150 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 9-4-8 for 150.0 plf.
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.

LOAD CASE(S) Standard



3/18/2024

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