

# Mark Morris, P.E.

#126, 1317-M, Summerville, SC 29483

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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 #: 24511

JOB: 20-5368-F02

JOB NAME: LOT 1168 CARRIAGE CIRCLE

Wind Code: N/A

Wind Speed: Vult= N/A

Exposure Category: N/A

Mean Roof Height (feet): N/A

*8 Truss Design(s)*

Trusses:

F01, F02, F03, F04, F05, F06, F07, F08



**11/23/2020**

**Mark Morris**

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

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Job 20-5368-F02	Truss F01	Truss Type Floor Supported Gable	Qty 1	Ply 1	LOT 1168 CARRIAGE CIRCLE   88 SPRUCE HOLLOW CIRCLE SPRING LAKE, NC Job Reference (optional) # 24511
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8.330 s Mar 10 2020 MiTek Industries, Inc. Tue Nov 24 22:28:18 2020 Page 1  
ID:MsMZ7fuyNIJd5IEFbR85JwyPq?q-AcB8WYbZwfkQdcXYk5Nxd9OiTbmYVeJQXjNy2myFrch

0-1-8

0-1-8

Scale = 1:41.1

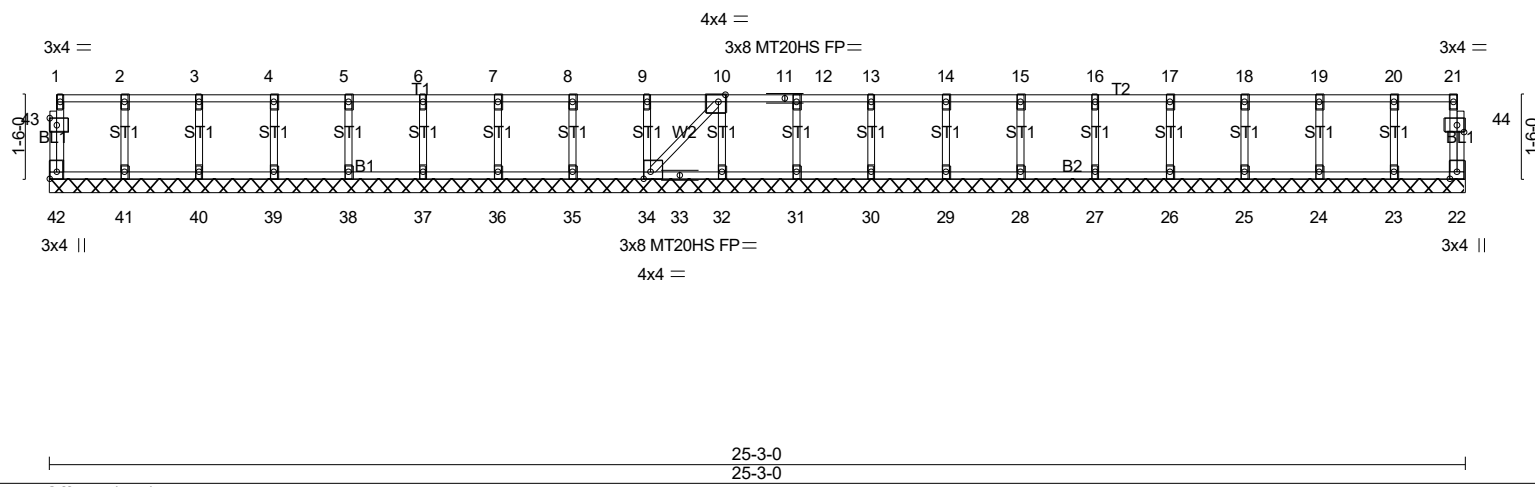


Plate Offsets (X,Y)-- [10:0-1-8,Edge], [34:0-1-8,Edge], [42:Edge,0-1-8], [43:0-1-8,0-1-8], [44:0-1-8,0-1-8]					
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL 1.00	TC 0.06	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.01	Vert(CT) n/a - n/a 999	MT20HS	187/143
BCLL 0.0	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.00 22 n/a n/a		
BCDL 5.0	Code IRC2018/TPI2014	Matrix-SH			Weight: 118 lb FT = 0%F, 0%E

<b>LUMBER-</b>	<b>BRACING-</b>
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 25-3-0.  
(lb) - Max Grav All reactions 250 lb or less at joint(s) 42, 22, 41, 40, 39, 38, 37, 36, 35, 34, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23

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

- NOTES-** (8-9)
- 1) All plates are MT20 plates unless otherwise indicated.
  - 2) All plates are 1.5x3 MT20 unless otherwise indicated.
  - 3) Gable requires continuous bottom chord bearing.
  - 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - 5) Gable studs spaced at 1-4-0 oc.
  - 6) 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.
  - 7) 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.
  - 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

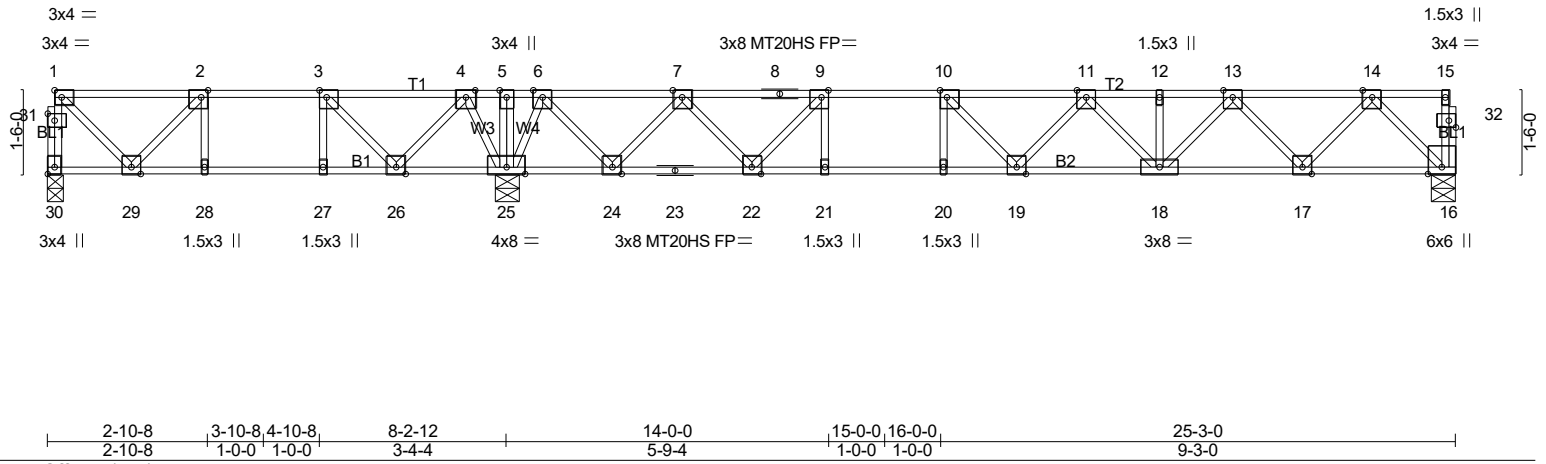


11/23/2020

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Job 20-5368-F02	Truss F02	Truss Type Floor	Qty 10	Ply 1	LOT 1168 CARRIAGE CIRCLE   88 SPRUCE HOLLOW CIRCLE SPRING LAKE, NC # 24511
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8.330 s Mar 10 2020 MiTek Industries, Inc. Tue Nov 24 22:28:20 2020 Page 1  
ID:MsMZ7fuyNIJd5IEFbR85JwyPq?g-6?JuxEdqSH?8svhwrWPPjaTvDPGizRQj?1s27eyFrC



2-10-8 2-10-8	3-10-8, 4-10-8 1-0-0 1-0-0	8-2-12 3-4-4	14-0-0 5-9-4	15-0-0, 16-0-0 1-0-0 1-0-0	25-3-0 9-3-0
Plate Offsets (X,Y)-- [2:0-1-8,Edge], [3:0-1-8,Edge], [9:0-1-8,Edge], [10:0-1-8,Edge], [30:Edge,0-1-8], [31:0-1-8,0-1-8], [32:0-1-8,0-1-8]					
<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	2-0-0	TC 0.62	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.82	Vert(LL) -0.24 19-20 >860 480	MT20HS	187/143
BCLL 0.0	Lumber DOL 1.00	WB 0.50	Vert(CT) -0.32 19-20 >637 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.04 16 n/a n/a		
	Code IRC2018/TPI2014				Weight: 138 lb FT = 0%F, 0%E

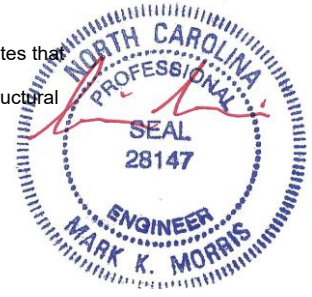
<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat) *Except* B2: 2x4 SP SS(flat)	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

**REACTIONS.** (lb/size) 30=341/0-3-8 (min. 0-1-8), 16=876/0-5-8 (min. 0-1-8), 25=1521/0-5-8 (min. 0-1-8)  
Max Grav 30=394(LC 3), 16=894(LC 7), 25=1526(LC 8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 30-31=-390/0, 1-31=-390/0, 1-2=-284/0, 2-3=-522/43, 3-4=-255/230, 4-5=0/735,  
5-6=0/735, 6-7=-799/0, 7-8=-1914/0, 8-9=-1914/0, 9-10=-2511/0, 10-11=-2639/0,  
11-12=-2306/0, 12-13=-2306/0, 13-14=-1420/0  
BOT CHORD 28-29=-43/522, 27-28=-43/522, 26-27=-43/522, 25-26=-454/2, 24-25=-255/116,  
23-24=0/1452, 22-23=0/1452, 21-22=0/2511, 20-21=0/2511, 19-20=0/2511, 18-19=0/2618,  
17-18=0/1961, 16-17=0/850  
WEBS 9-21=0/378, 10-20=-346/0, 1-29=0/385, 2-29=-345/77, 3-26=-536/0, 4-26=0/467,  
4-25=-608/0, 9-22=-943/0, 7-22=0/734, 7-24=-1007/0, 6-24=0/1058, 6-25=-1130/0,  
10-19=-127/378, 11-18=-452/0, 13-18=0/499, 13-17=-804/0, 14-17=0/847, 14-16=-1200/0

- NOTES-** (7-8)
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) All plates are MT20 plates unless otherwise indicated.
  - 3) All plates are 4x4 MT20 unless otherwise indicated.
  - 4) 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.
  - 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



11/23/2020

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Job 20-5368-F02	Truss F03	Truss Type Floor	Qty 7	Ply 1	LOT 1168 CARRIAGE CIRCLE   88 SPRUCE HOLLOW CIRCLE SPRING LAKE, NC	Job Reference (optional) <b># 24511</b>
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8.330 s Mar 10 2020 MiTek Industries, Inc. Tue Nov 24 22:28:21 2020 Page 1  
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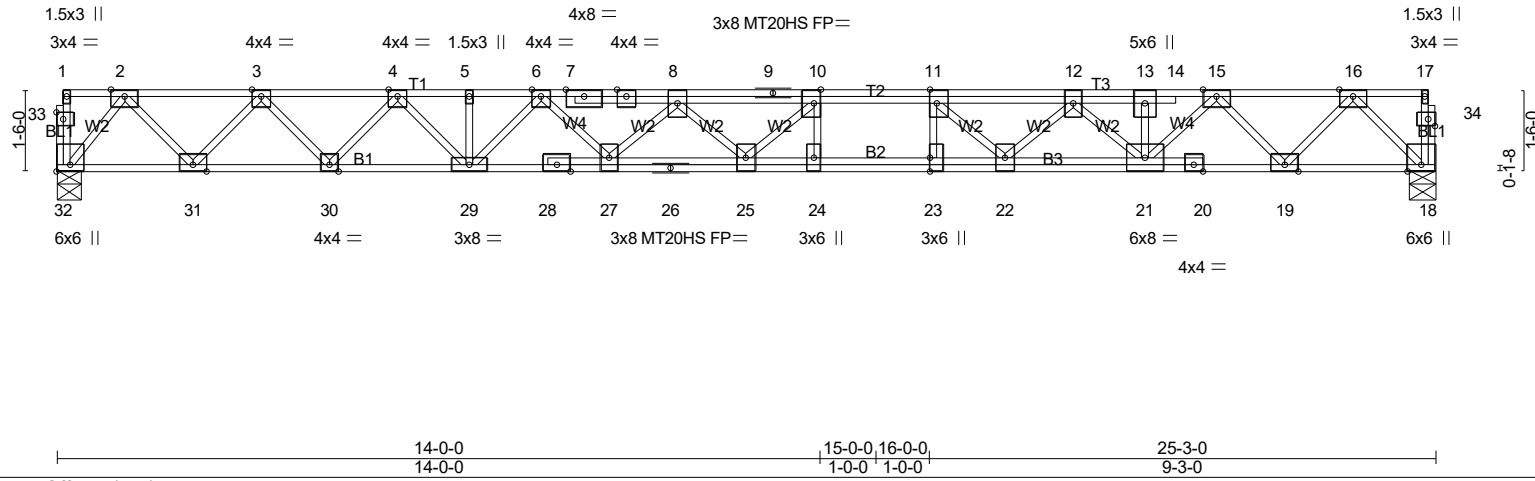


Plate Offsets (X,Y)-- [10:0-3-0,Edge], [11:0-3-0,Edge], [23:0-3-0,0-0-0], [32:Edge,0-3-0], [33:0-1-8,0-1-8], [34:0-1-8,0-1-8]					
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL 1.00	TC 0.76	Vert(LL) -0.49 25-27 >614 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.88	Vert(CT) -0.67 25-27 >446 360	MT20HS	187/143
BCLL 0.0	Rep Stress Incr YES	WB 0.73	Horz(CT) 0.11 18 n/a n/a	Weight: 167 lb FT = 0%F, 0%E	
BCDL 5.0	Code IRC2018/TPI2014	Matrix-SH			

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 3-11-15 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat) *Except* B1: 2x4 SP SS(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

**REACTIONS.** (lb/size) 32=1369/0-5-8 (min. 0-1-8), 18=1369/0-5-8 (min. 0-1-8)

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

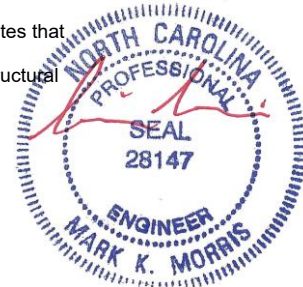
TOP CHORD 2-3=-2124/0, 3-4=-3901/0, 4-5=-5198/0, 5-6=-5198/0, 6-7=-6248/0, 7-8=-6255/0, 8-9=-6803/0, 9-10=-6803/0, 10-11=-6557/0, 11-12=-5846/0, 12-13=-4331/0, 13-14=-4322/0, 14-15=-4331/0, 15-16=-2305/0

BOT CHORD 31-32=0/1095, 30-31=0/3134, 29-30=0/4627, 28-29=0/5726, 27-28=0/5723, 26-27=0/6760, 25-26=0/6760, 24-25=0/6557, 23-24=0/6557, 22-23=0/6557, 21-22=0/5235, 20-21=0/3313, 19-20=0/3315, 18-19=0/1320

WEBS 10-24=-472/57, 11-23=-64/455, 10-25=-327/678, 8-25=-172/376, 8-27=-724/0, 6-27=0/757, 6-29=-765/0, 4-29=0/827, 4-30=-1079/0, 3-30=0/1141, 3-31=-1502/0, 2-31=0/1530, 2-32=-1727/0, 11-22=-1206/0, 12-22=0/932, 12-21=-1248/0, 15-21=0/1437, 15-19=-1502/0, 16-19=0/1464, 16-18=-1865/0

- NOTES-** (6-7)
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) All plates are MT20 plates unless otherwise indicated.
  - 3) All plates are 4x6 MT20 unless otherwise indicated.
  - 4) 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.
  - 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



11/23/2020

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Job 20-5368-F02	Truss F04	Truss Type Floor Supported Gable	Qty 1	Ply 1	LOT 1168 CARRIAGE CIRCLE   88 SPRUCE HOLLOW CIRCLE SPRING LAKE, NC	Job Reference (optional) <b># 24511</b>
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8.330 s Mar 10 2020 MiTek Industries, Inc. Tue Nov 24 22:28:22 2020 Page 1  
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0<sub>1</sub>-8

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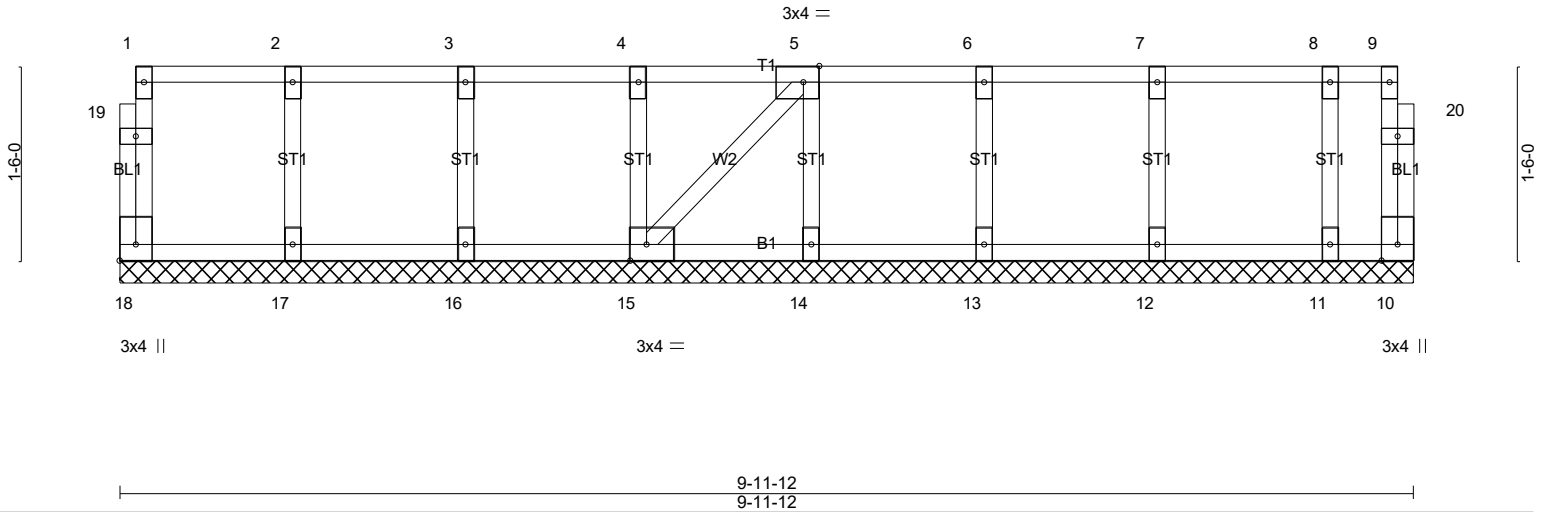


Plate Offsets (X,Y)-- [5:0-1-8,Edge], [15:0-1-8,Edge], [18:Edge,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.01	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0	Lumber DOL 1.00	WB 0.03	Horz(CT)	0.00	10	n/a	n/a		
BCDL 5.0	Rep Stress Incr YES	Matrix-SH						Weight: 52 lb	FT = 0%F, 0%E
	Code IRC2018/TPI2014								

**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)

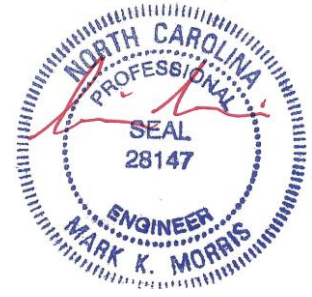
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** All bearings 9-11-12.  
 (lb) - Max Grav All reactions 250 lb or less at joint(s) 18, 10, 17, 16, 15, 14, 13, 12, 11

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

**LOAD CASE(S)** Standard

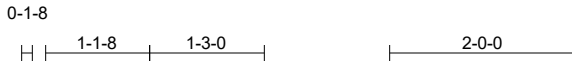


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Job 20-5368-F02	Truss F05	Truss Type Floor	Qty 3	Ply 1	LOT 1168 CARRIAGE CIRCLE   88 SPRUCE HOLLOW CIRCLE SPRING LAKE, NC	Job Reference (optional) <b># 24511</b>
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8.330 s Mar 10 2020 MiTek Industries, Inc. Tue Nov 24 22:28:23 2020 Page 1  
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0-1-8  
Scale = 1:25.0

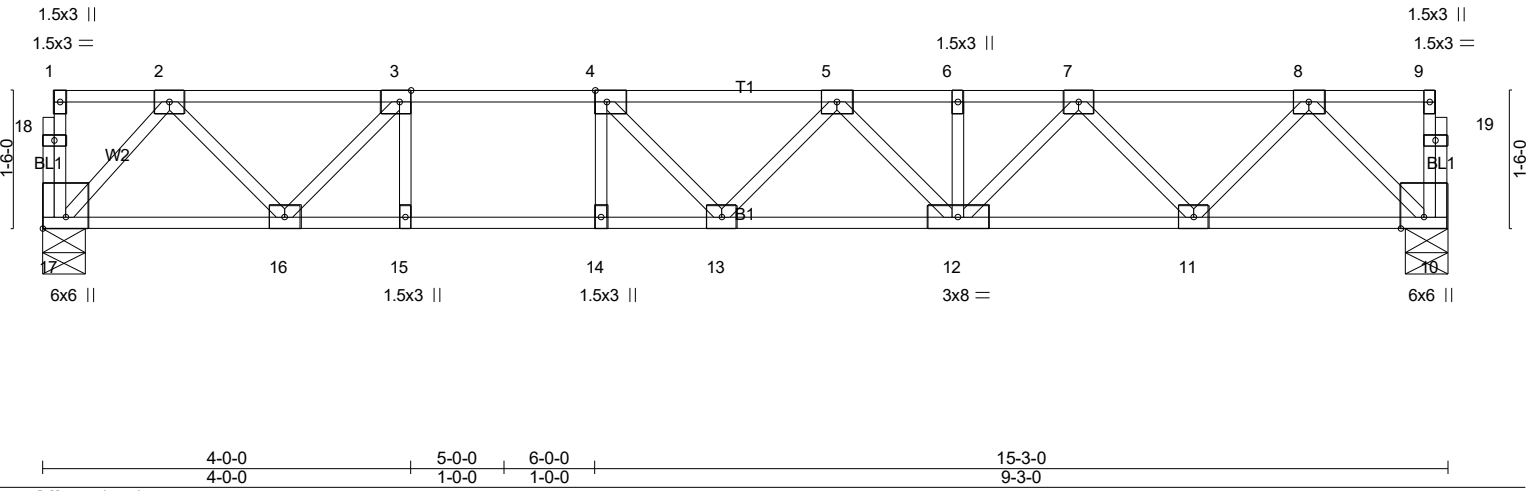


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [17:Edge,0-3-0]	
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0
TCLL 40.0	Plate Grip DOL 1.00
TCDL 10.0	Lumber DOL 1.00
BCLL 0.0	Rep Stress Incr YES
BCDL 5.0	Code IRC2018/TPI2014
<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d
TC 0.80	Vert(LL) -0.24 13-14 >741 480
BC 0.87	Vert(CT) -0.33 13-14 >553 360
WB 0.39	Horz(CT) 0.03 10 n/a n/a
Matrix-SH	
<b>PLATES</b>	<b>GRIP</b>
MT20	244/190
Weight: 84 lb FT = 0%F, 0%E	

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

**REACTIONS.** (lb/size) 17=819/0-5-8 (min. 0-1-8), 10=819/0-5-8 (min. 0-1-8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1229/0, 3-4=-1959/0, 4-5=-2214/0, 5-6=-2019/0, 6-7=-2019/0, 7-8=-1277/0  
 BOT CHORD 16-17=0/674, 15-16=0/1959, 14-15=0/1959, 13-14=0/1959, 12-13=0/2273, 11-12=0/1749, 10-11=0/775  
 WEBS 3-15=0/420, 4-14=-392/0, 3-16=-1057/0, 2-16=0/825, 2-17=-998/0, 4-13=-56/479, 5-12=-368/0, 7-12=0/391, 7-11=-701/0, 8-11=0/746, 8-10=-1094/0

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

**LOAD CASE(S)** Standard



11/23/2020

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Job 20-5368-F02	Truss F06	Truss Type Floor	Qty 1	Ply 1	LOT 1168 CARRIAGE CIRCLE   88 SPRUCE HOLLOW CIRCLE SPRING LAKE, NC	# 24511
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8.330 s Mar 10 2020 MiTek Industries, Inc. Tue Nov 24 22:28:24 2020 Page 1  
 ID:MsMZ7fuyNIJd5IEFbR85JwyPq?q-\_mYPncgKWVZLX\_h4MULTIqegj0oCvJfJwfgGGPyFrcb

0-1-8 1-3-0 0-11-8 Scale = 1:13.9

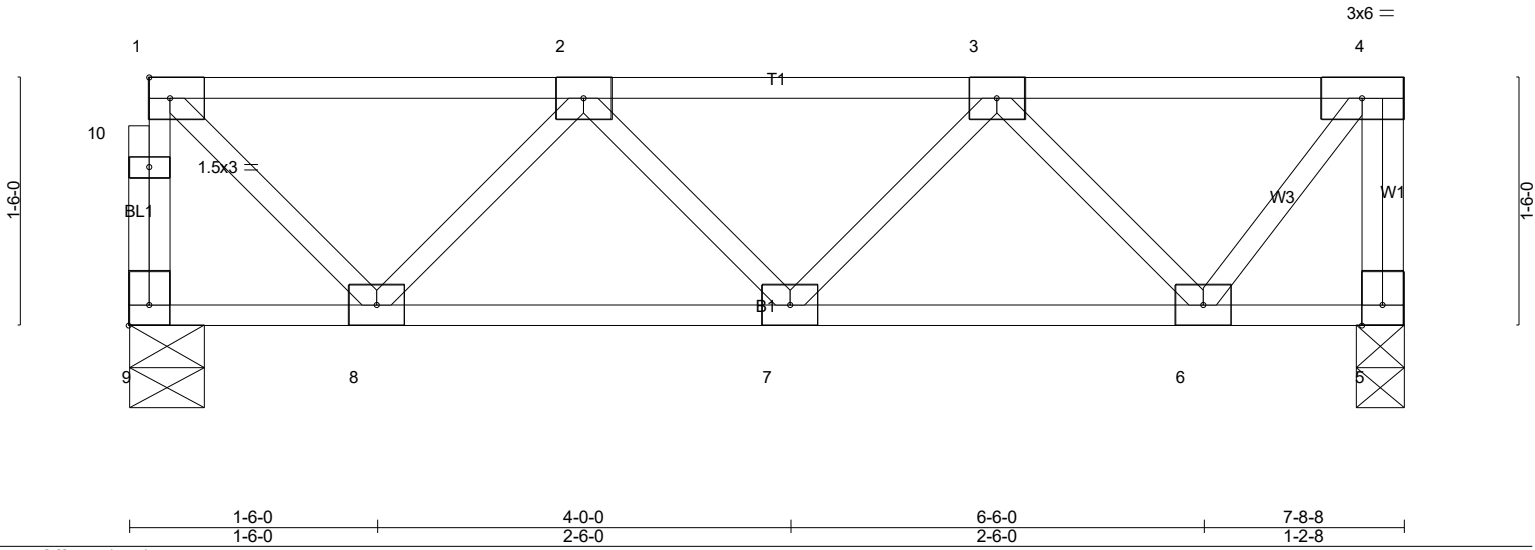


Plate Offsets (X,Y)-- [9:Edge,0-1-8]							
<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>		
TCLL 40.0	2-0-0	TC 0.26	in (loc) l/defl L/d	MT20	244/190		
TCDL 10.0	Plate Grip DOL 1.00	BC 0.12	Vert(LL) -0.01 7 >999 480				
BCLL 0.0	Lumber DOL 1.00	WB 0.19	Vert(CT) -0.01 7 >999 360				
BCDL 5.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 5 n/a n/a				
	Code IRC2018/TPI2014					Weight: 45 lb FT = 0%F, 0%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=404/0-5-8 (min. 0-1-8), 5=410/0-3-8 (min. 0-1-8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 9-10=-399/0, 1-10=-399/0, 4-5=-407/0, 1-2=-301/0, 2-3=-545/0  
 BOT CHORD 7-8=0/551, 6-7=0/515  
 WEBS 1-8=0/409, 2-8=-372/0, 3-6=-398/0, 4-6=0/400

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

**LOAD CASE(S)** Standard

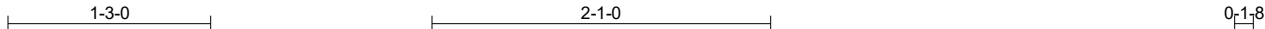


11/23/2020

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Job 20-5368-F02	Truss F07	Truss Type Floor	Qty 5	Ply 1	LOT 1168 CARRIAGE CIRCLE   88 SPRUCE HOLLOW CIRCLE SPRING LAKE, NC	Job Reference (optional) <b># 24511</b>
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8.330 s Mar 10 2020 MiTek Industries, Inc. Tue Nov 24 22:28:25 2020 Page 1  
ID:MsMZ7fuyNIJd5IEFbR85JwyPq?q-Tz6n\_ygyHpdQzhZue3?aQdBqDQ5iemNS8JaposityFrca



Scale = 1:14.3

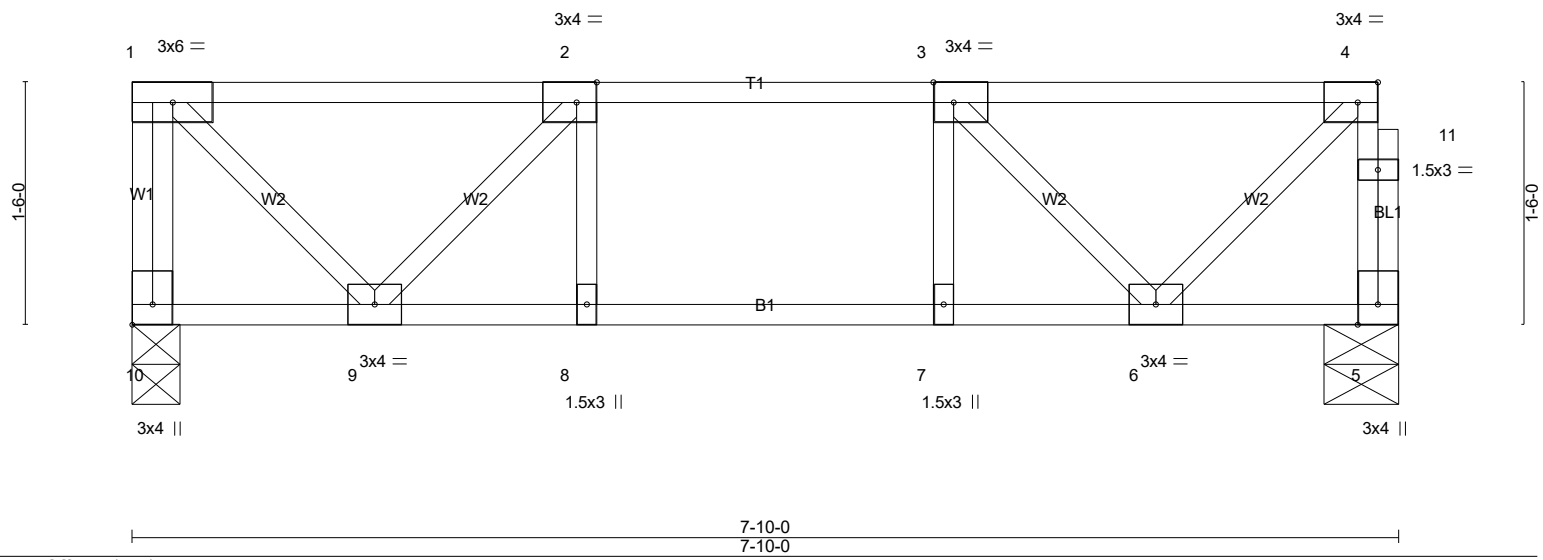


Plate Offsets (X,Y)-- [2:0-1-8,Edge], [3:0-1-8,Edge], [4:0-1-8,Edge], [10:Edge,0-1-8]

<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc)	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL 1.00	TC 0.34	Vert(LL) -0.03 8 >999 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.29	Vert(CT) -0.04 8 >999 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.20	Horz(CT) 0.00 5 n/a n/a		
BCDL 5.0	Code IRC2018/TPI2014	Matrix-SH		Weight: 45 lb	FT = 0%F, 0%E

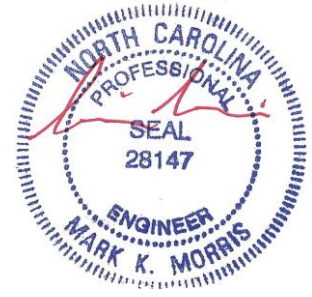
<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

**REACTIONS.** (lb/size) 10=417/0-3-8 (min. 0-1-8), 5=411/0-5-8 (min. 0-1-8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-10=-411/0, 5-11=-405/0, 4-11=-404/0, 1-2=-299/0, 2-3=-571/0, 3-4=-300/0  
 BOT CHORD 8-9=0/571, 7-8=0/571, 6-7=0/571  
 WEBS 4-6=0/409, 1-9=0/423, 3-6=-392/0, 2-9=-393/0

- NOTES-** (5-6)
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) 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.
  - 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



11/23/2020

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Job 20-5368-F02	Truss F08	Truss Type Floor Supported Gable	Qty 1	Ply 1	LOT 1168 CARRIAGE CIRCLE   88 SPRUCE HOLLOW CIRCLE SPRING LAKE, NC
Job Reference (optional)					# 24511

8.330 s Mar 10 2020 MiTek Industries, Inc. Tue Nov 24 22:28:26 2020 Page 1  
 ID:MsMZ7fuyNIJd5IEFbR85JwyPq?q-x9gABHhb27IHq84CnWpyrj4RqVPNGHcNzJNKlyFrcZ

0-1-8

0-1-8

Scale = 1:14.1

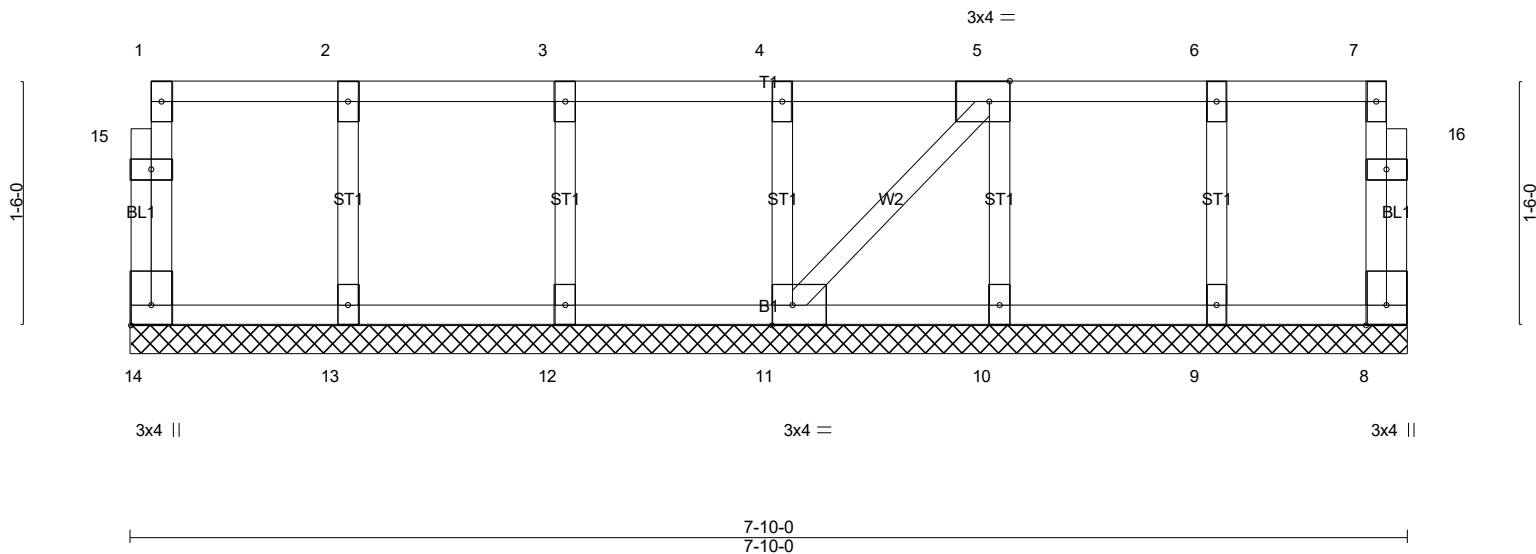


Plate Offsets (X,Y)-- [5:0-1-8,Edge], [11:0-1-8,Edge], [14:Edge,0-1-8]					
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL 1.00	TC 0.06	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.01	Vert(CT) 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 IRC2018/TPI2014	Matrix-P			
				Weight: 42 lb	FT = 0%F, 0%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 7-10-0.  
 (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-** (7-8)
- All plates are 1.5x3 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - Gable studs spaced at 1-4-0 oc.
  - 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.
  - Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
  - Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

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