ENGINEERING BY
TRENCO
A MiTek Affiliate

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: 30139-30139A
26 PRINCE PLACE - FLOOR

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by 84 Components - #2383.

Pages or sheets covered by this seal: I49963374 thru I49963389

My license renewal date for the state of North Carolina is December 31, 2022.

North Carolina COA: C-0844

January 31,2022

Sevier, Scott

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

Job	Truss	Truss Type	Qty	Ply	26 PRINCE PLACE - FLOOR
30139-30139A	F1	Floor	5	1	I49963374
					Job Reference (optional)

84 Components (Dunn), Dunn, NC - 28334, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:00:40 2022 Page 1
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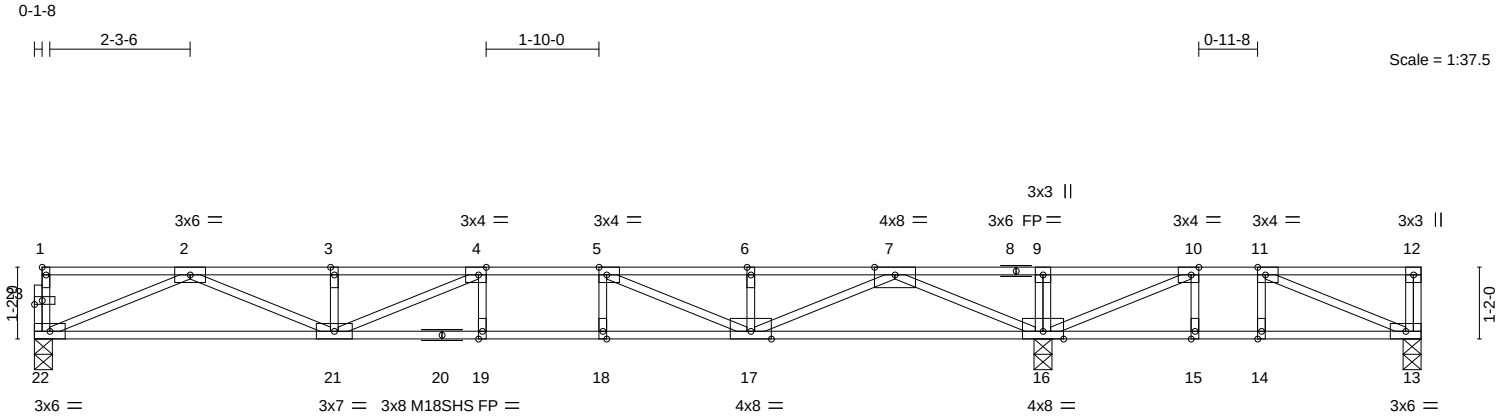

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

16-4-12 / 16-4-12 | 22-6-8 / 6-1-12

Plate Offsets (X,Y)-- [1:Edge,0-0-12], [4:0-1-8,Edge], [5:0-1-8,Edge], [10:0-1-8,Edge], [11:0-1-8,Edge], [23:0-1-8,0-0-12]

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	0.84	Vert(LL)	-0.23	19-21	>839	480	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.87	Vert(CT)	-0.32	19-21	>617	360	M18SHS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.04	16	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 112 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(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. (size) 22=0-3-8, 16=0-3-8, 13=0-3-8
Max Uplift 13=-145(LC 3)
Max Grav 22=807(LC 10), 16=1557(LC 1), 13=259(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2582/0, 3-4=-2582/0, 4-5=-2834/0, 5-6=-2024/0, 6-7=-2024/0, 7-9=0/1430, 9-10=0/1430, 10-11=-295/543
BOT CHORD 21-22=0/1603, 19-21=0/2834, 18-19=0/2834, 17-18=0/2834, 16-17=0/713, 15-16=-543/295, 14-15=-543/295, 13-14=-543/295
WEBS 2-22=-1741/0, 7-16=-2130/0, 2-21=0/1072, 3-21=-287/0, 7-17=0/1474, 6-17=-255/10, 4-21=-525/67, 5-17=-1006/0, 10-16=-1235/0, 11-13=-321/589

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
3) All plates are MT20 plates unless otherwise indicated.
4) All plates are 1.5x4 MT20 unless otherwise indicated.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 145 lb uplift at joint 13.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

January 31,2022

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Job	Truss	Truss Type	Qty	Ply	26 PRINCE PLACE - FLOOR
30139-30139A	F2	Floor	1	1	I49963375
					Job Reference (optional)

84 Components (Dunn), Dunn, NC - 28334, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:00:42 2022 Page 1
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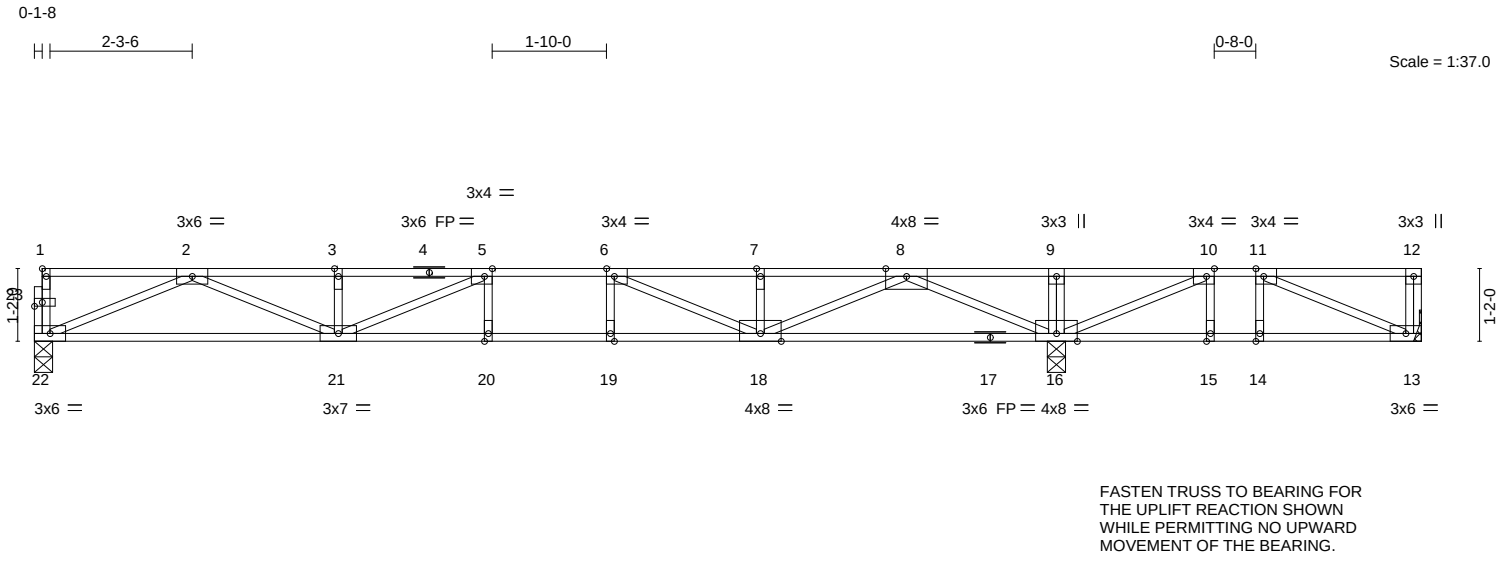

FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

16-4-12 | 22-3-0
16-4-12 | 5-10-4

Plate Offsets (X,Y)-- [1:Edge,0-0-12], [5:0-1-8,Edge], [6:0-1-8,Edge], [10:0-1-8,Edge], [11:0-1-8,Edge], [23:0-1-8,0-0-12]

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	0.87	Vert(LL)	-0.23	20-21	>839	480	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.87	Vert(CT)	-0.32	20-21	>617	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.04	16	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 111 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat) *Except*
17-22: 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. (size) 13=Mechanical, 22=0-3-8, 16=0-3-8
Max Uplift 13=-188(LC 3)
Max Grav 13=231(LC 4), 22=796(LC 10), 16=1591(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2535/0, 3-5=-2535/0, 5-6=-2748/0, 6-7=-1900/0, 7-8=-1900/0, 8-9=0/1552, 9-10=0/1552, 10-11=-237/626
BOT CHORD 21-22=0/1578, 20-21=0/2748, 19-20=0/2748, 18-19=0/2748, 16-18=0/566, 15-16=-626/237, 14-15=-626/237, 13-14=-626/237
WEBS 2-22=-1713/0, 8-16=-2151/0, 2-21=0/1047, 3-21=-288/0, 8-18=0/1493, 7-18=-253/12, 5-21=-491/85, 6-18=-1024/0, 10-16=-1276/0, 11-13=-257/680

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
3) All plates are 1.5x4 MT20 unless otherwise indicated.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 188 lb uplift at joint 13.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

January 31,2022

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Job	Truss	Truss Type	Qty	Ply	26 PRINCE PLACE - FLOOR
30139-30139A	F3	Floor	3	1	I49963376
					Job Reference (optional)

84 Components (Dunn), Dunn, NC - 28334, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:00:42 2022 Page 1
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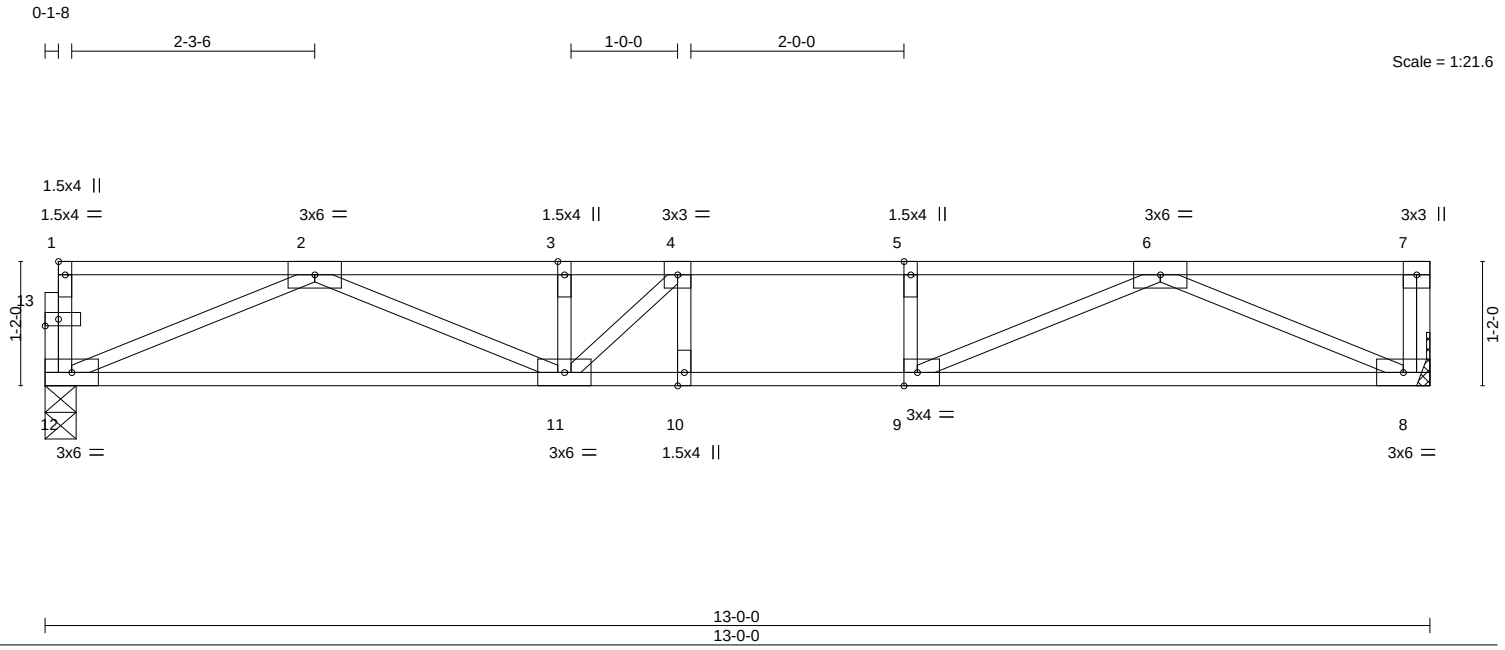

Plate Offsets (X,Y)-- [1:Edge,0-0-12], [9:0-1-8,Edge], [13:0-1-8,0-0-12]

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	0.59	Vert(LL)	-0.15	10-11	>994	480	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.96	Vert(CT)	-0.19	10-11	>787	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.03	8	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 64 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(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: 9-10.

REACTIONS. (size) 12=0-3-8, 8=Mechanical
Max Grav 12=695(LC 1), 8=701(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2046/0, 3-4=-2046/0, 4-5=-2088/0, 5-6=-2088/0
BOT CHORD 11-12=0/1349, 10-11=0/2088, 9-10=0/2088, 8-9=0/1349
WEBS 2-12=-1464/0, 6-8=-1470/0, 2-11=0/763, 6-9=0/860, 5-9=-258/0, 4-11=-381/189

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
3) Refer to girder(s) for truss to truss connections.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.

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Job	Truss	Truss Type	Qty	Ply	26 PRINCE PLACE - FLOOR
30139-30139A	F4	Floor	3	1	I49963377
					Job Reference (optional)

84 Components (Dunn), Dunn, NC - 28334, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:00:43 2022 Page 1
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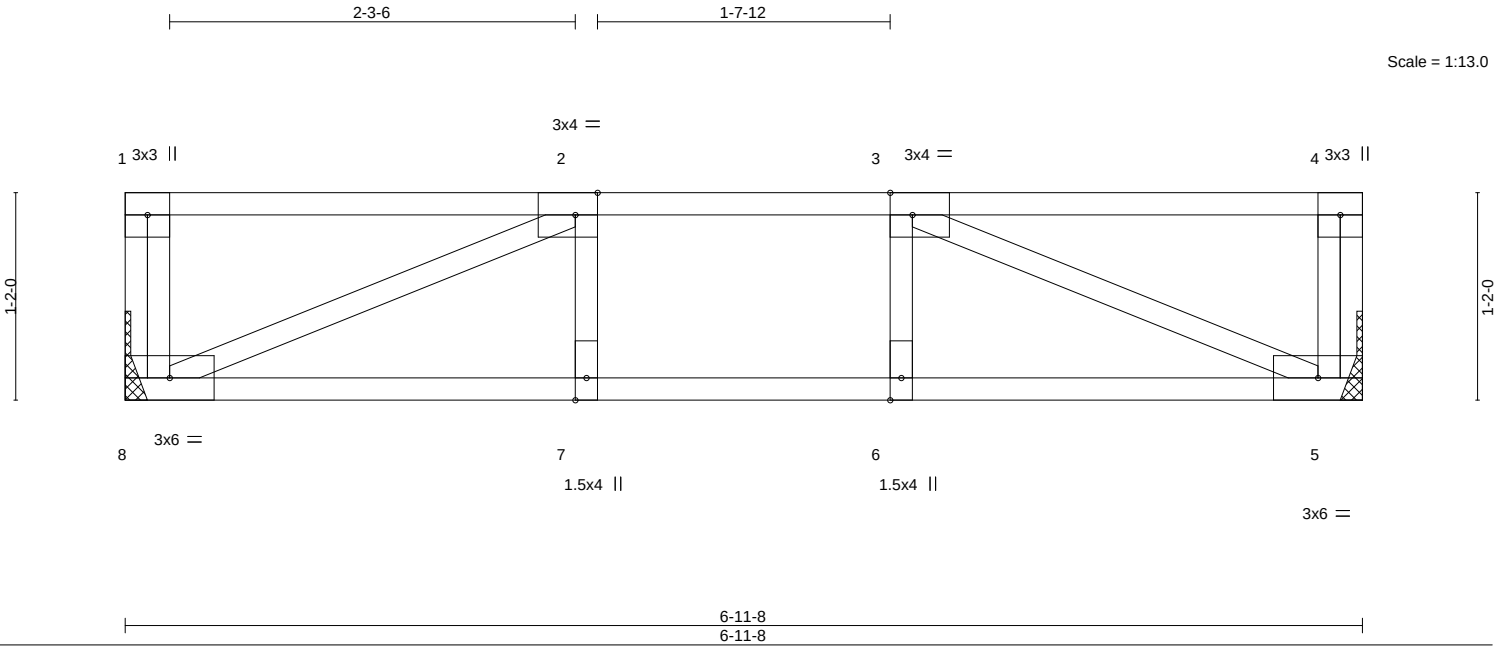

Plate Offsets (X,Y)-- [2:0-1-8,Edge], [3:0-1-8,Edge]

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)	-0.04	7-8	>999	480	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.31	Vert(CT)	-0.04	7-8	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.01	5	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 36 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(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. (size) 8=Mechanical, 5=Mechanical
Max Grav 8=369(LC 1), 5=369(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-599/0
BOT CHORD 7-8=0/599, 6-7=0/599, 5-6=0/599
WEBS 2-8=-650/0, 3-5=-650/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
3) Refer to girder(s) for truss to truss connections.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	26 PRINCE PLACE - FLOOR
30139-30139A	F5	Floor	1	1	I49963378
					Job Reference (optional)

84 Components (Dunn), Dunn, NC - 28334, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:00:43 2022 Page 1
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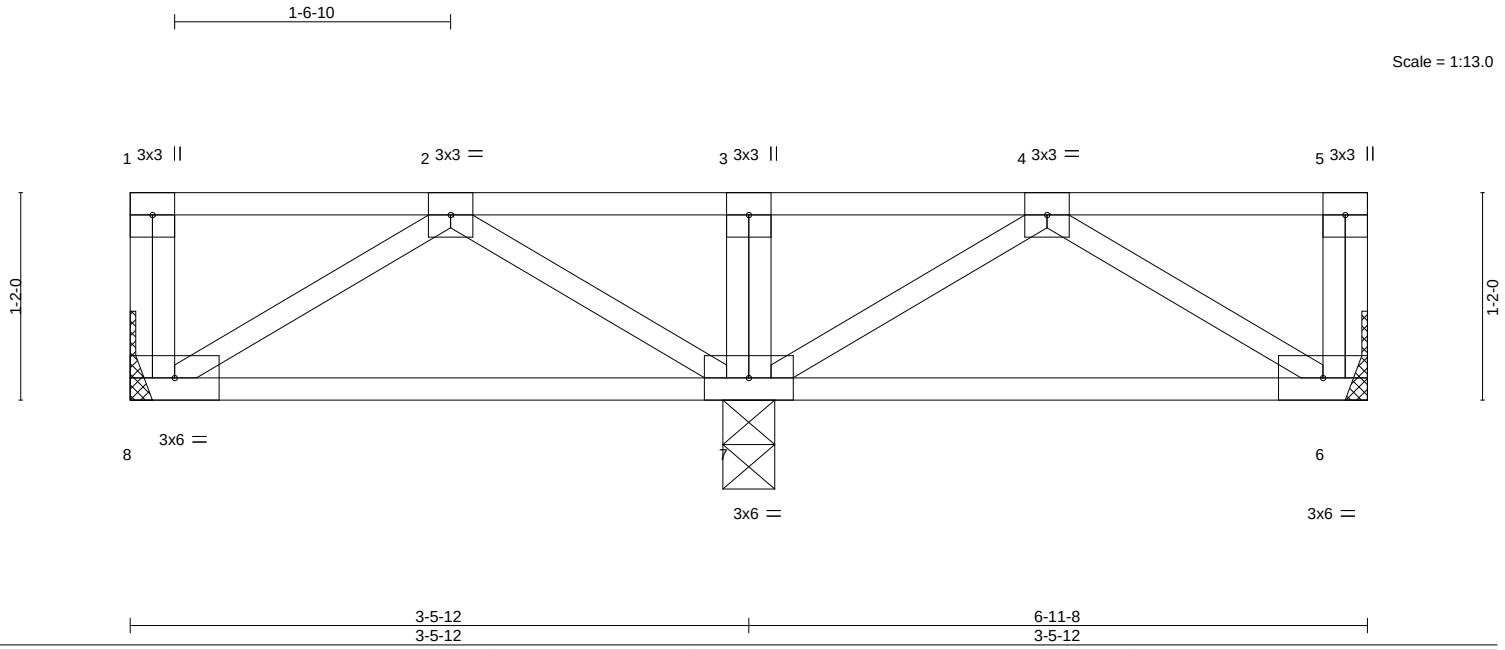

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.16	Vert(LL)	0.00	7	****	480	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.11	Vert(CT)	-0.01	6-7	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	6	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 40 lb	FT = 20%F, 11%E

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-11-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=Mechanical, 6=Mechanical, 7=0-3-8
Max Grav 8=164(LC 3), 6=164(LC 4), 7=430(LC 1)

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

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
3) Refer to girder(s) for truss to truss connections.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.

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Job	Truss	Truss Type	Qty	Ply	26 PRINCE PLACE - FLOOR
30139-30139A	F6	Floor	6	1	I49963379
					Job Reference (optional)

84 Components (Dunn), Dunn, NC - 28334, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:00:44 2022 Page 1
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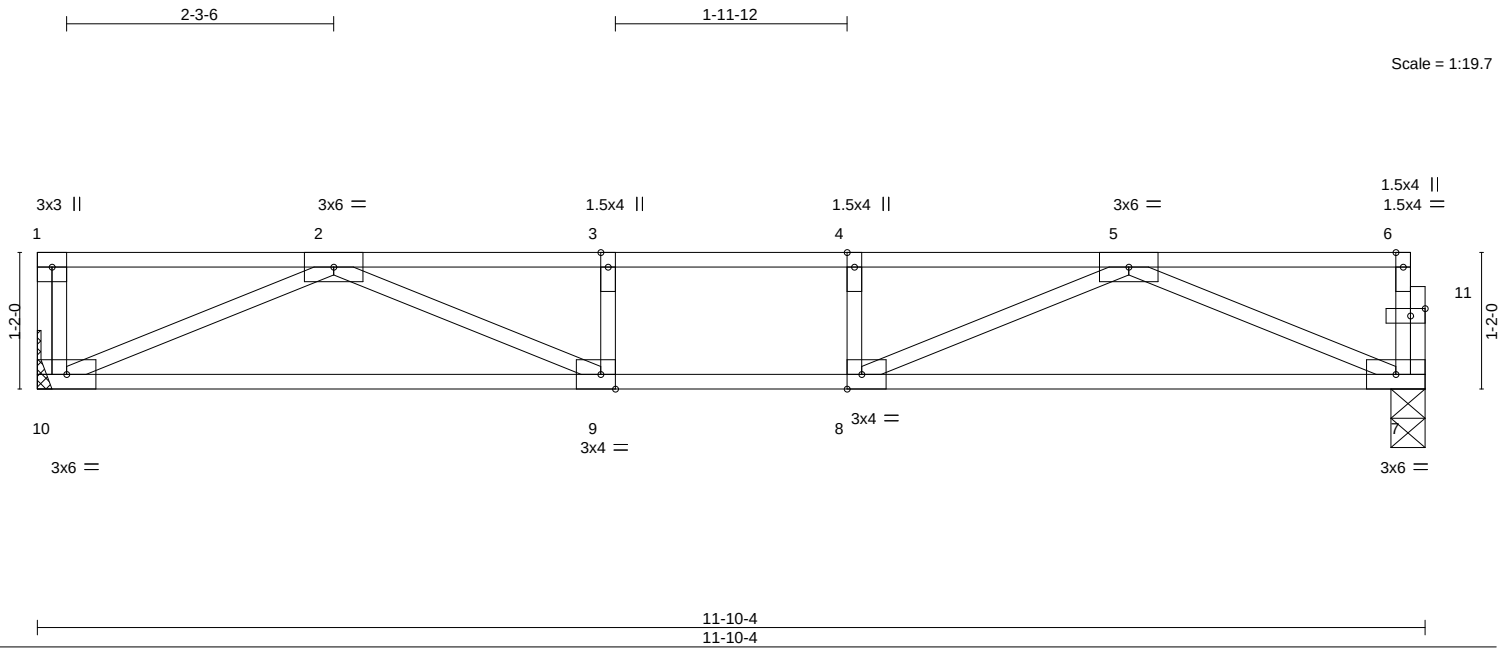

Plate Offsets (X,Y)-- [8:0-1-8,Edge], [9:0-1-8,Edge], [11:0-1-8,0-0-12]

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	0.52	Vert(LL)	-0.14	7-8	>977	480	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.65	Vert(CT)	-0.20	7-8	>690	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.02	7	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 58 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(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. (size) 10=Mechanical, 7=0-3-8
Max Grav 10=638(LC 1), 7=632(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1761/0, 3-4=-1761/0, 4-5=-1761/0
BOT CHORD 9-10=0/1202, 8-9=0/1761, 7-8=0/1199
WEBS 2-10=-1309/0, 5-7=-1301/0, 2-9=0/704, 5-8=0/705

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
3) Refer to girder(s) for truss to truss connections.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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Job	Truss	Truss Type	Qty	Ply	26 PRINCE PLACE - FLOOR
30139-30139A	F7	Floor	5	1	I49963380
					Job Reference (optional)

84 Components (Dunn), Dunn, NC - 28334, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:00:45 2022 Page 1
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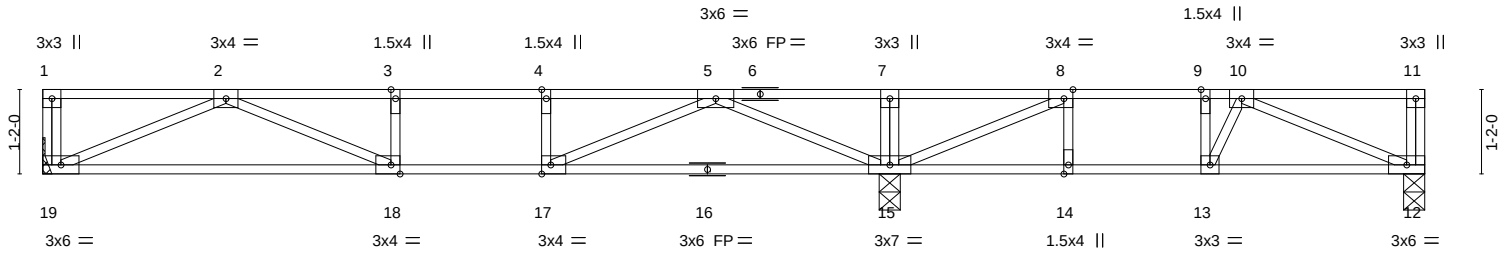
2-3-6 1-11-8 1-9-4 0-5-4

Scale: 3/8"=1'



11-8-8 19-1-4
11-8-8 7-4-12

Plate Offsets (X,Y)-- [8:0-1-8,Edge], [17:0-1-8,Edge], [18:0-1-8,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	0.57	Vert(LL)	-0.14	18-19	>999	480	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.63	Vert(CT)	-0.21	18-19	>675	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.03	12	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 94 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(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. (size) 19=Mechanical, 15=0-3-8, 12=0-3-8
Max Grav 19=612(LC 10), 15=1137(LC 1), 12=387(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1618/0, 3-4=-1618/0, 4-5=-1618/0, 5-7=0/517, 7-8=0/517, 8-9=-628/16, 9-10=-628/16
BOT CHORD 18-19=0/1142, 17-18=0/1618, 15-17=0/981, 14-15=-16/628, 13-14=-16/628, 12-13=0/635
WEBS 7-15=-251/0, 2-19=-1245/0, 5-15=-1343/0, 2-18=0/520, 5-17=0/783, 4-17=-267/0, 8-15=-947/0, 10-12=-692/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
3) Refer to girder(s) for truss to truss connections.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.

January 31,2022

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	26 PRINCE PLACE - FLOOR
30139-30139A	F8	Floor	12	1	I49963381
					Job Reference (optional)

84 Components (Dunn), Dunn, NC - 28334, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:00:45 2022 Page 1
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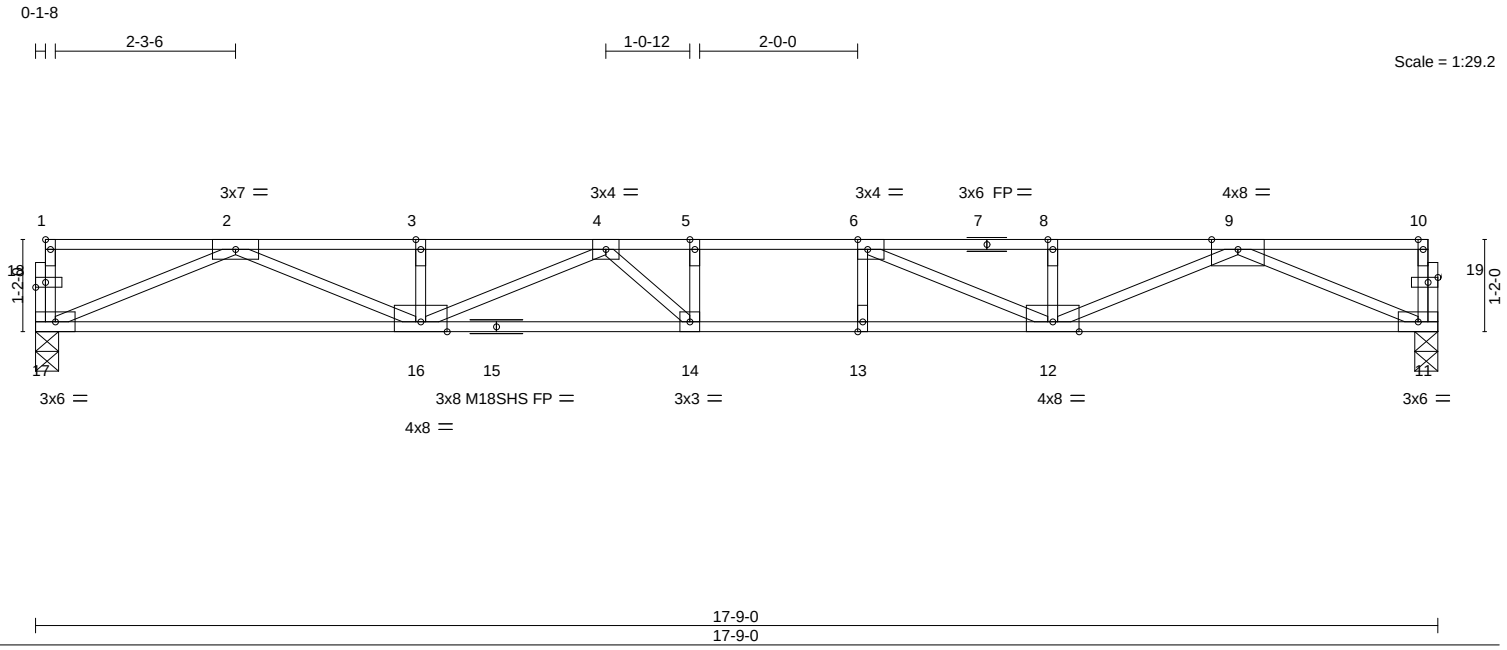

Plate Offsets (X,Y)-- [1:Edge,0-0-12], [6:0-1-8,Edge], [18:0-1-8,0-0-12], [19:0-1-8,0-0-12]

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	0.79	Vert(LL)	-0.32	14-16	>652	480	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.93	Vert(CT)	-0.45	14-16	>472	360	M18SHS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.07	11	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 87 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat) *Except*
7-10: 2x4 SP No.2 or 2x4 SPF No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-3-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 14-16.

REACTIONS. (size) 17=0-3-8, 11=0-3-8
Max Grav 17=956(LC 1), 11=956(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3246/0, 3-4=-3246/0, 4-5=-3980/0, 5-6=-3980/0, 6-8=-3230/0, 8-9=-3230/0
BOT CHORD 16-17=0/1946, 14-16=0/3898, 13-14=0/3980, 12-13=0/3980, 11-12=0/1945
WEBS 2-17=-2114/0, 9-11=-2113/0, 2-16=0/1422, 9-12=0/1406, 8-12=-266/28, 4-16=-715/0, 6-12=-1051/0, 4-14=-217/506, 5-14=-260/74

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
3) All plates are MT20 plates unless otherwise indicated.
4) All plates are 1.5x4 MT20 unless otherwise indicated.
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.

January 31,2022

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	26 PRINCE PLACE - FLOOR
30139-30139A	F10	Floor	7	1	I49963382
					Job Reference (optional)

84 Components (Dunn), Dunn, NC - 28334, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:00:41 2022 Page 1
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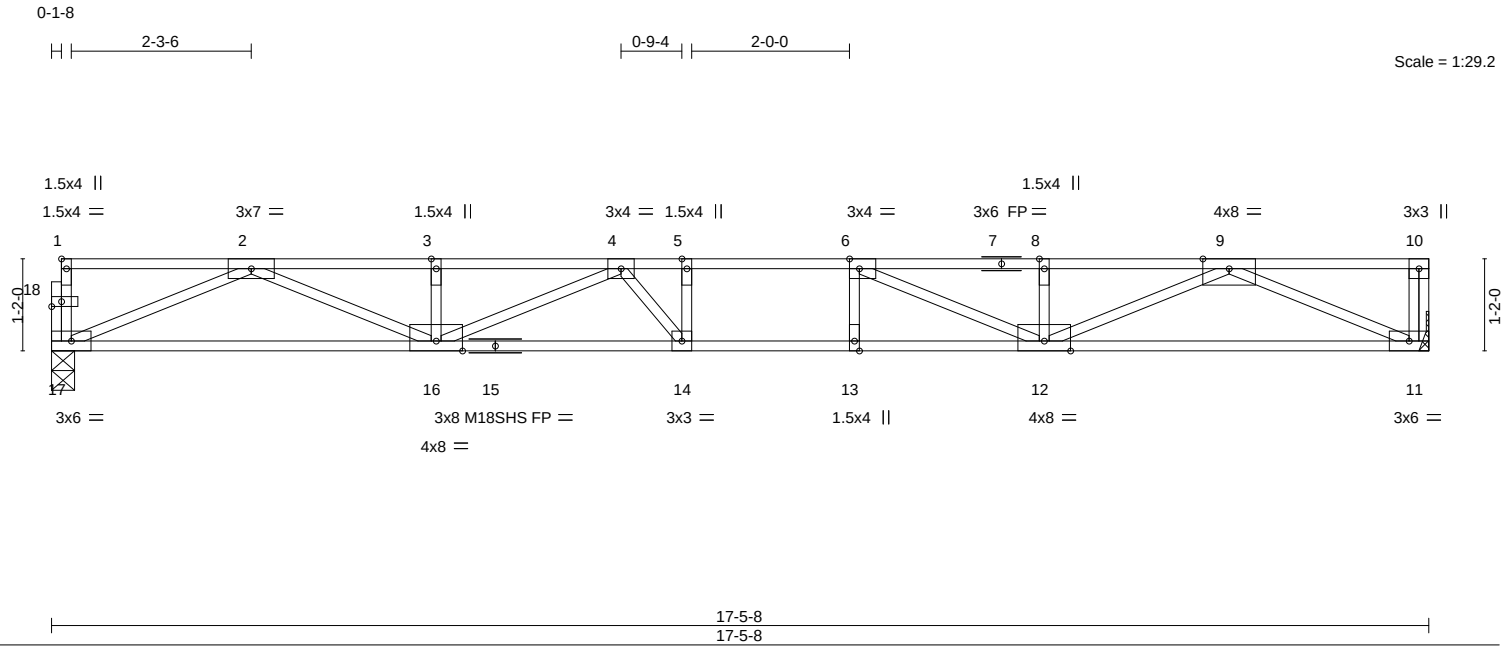

Plate Offsets (X,Y)-- [1:Edge,0-0-12], [6:0-1-8,Edge], [18:0-1-8,0-0-12]

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	0.98	Vert(LL)	-0.31	14	>670	480	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.91	Vert(CT)	-0.43	14	>485	360	M18SHS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.07	11	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 86 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat) *Except*
7-10: 2x4 SP No.2 or 2x4 SPF No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

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

REACTIONS. (size) 17=0-3-8, 11=Mechanical
Max Grav 17=940(LC 1), 11=946(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3170/0, 3-4=-3170/0, 4-5=-3854/0, 5-6=-3854/0, 6-8=-3160/0, 8-9=-3160/0
BOT CHORD 16-17=0/1909, 14-16=0/3793, 13-14=0/3854, 12-13=0/3854, 11-12=0/1910
WEBS 2-17=-2074/0, 9-11=-2081/0, 2-16=0/1380, 9-12=0/1368, 8-12=-265/22, 4-16=-690/0, 6-12=-996/0, 4-14=-228/495, 5-14=-296/103

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
3) All plates are MT20 plates unless otherwise indicated.
4) Refer to girder(s) for truss to truss connections.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

January 31,2022

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	26 PRINCE PLACE - FLOOR
30139-30139A	FG	FLOOR GIRDER	1	1	I49963383
					Job Reference (optional)

84 Components (Dunn), Dunn, NC - 28334, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:00:46 2022 Page 1
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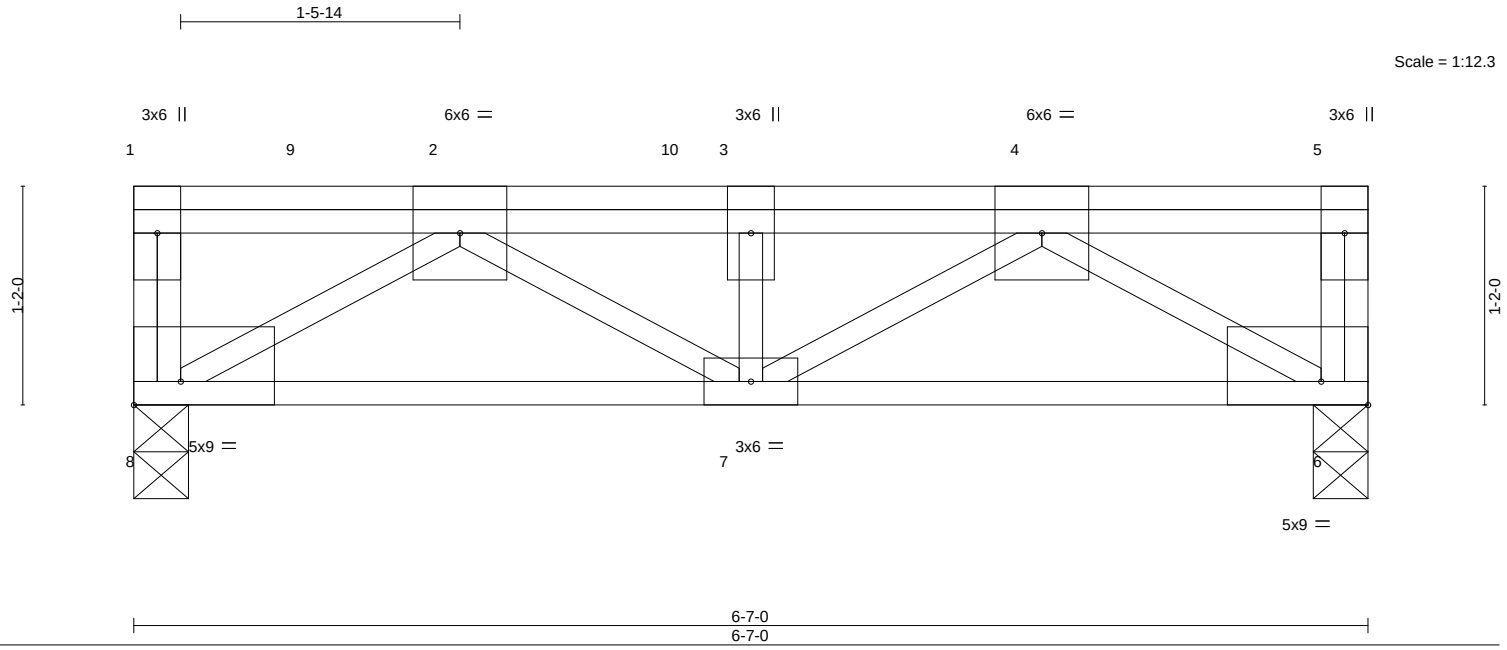

Plate Offsets (X,Y)-- [6:Edge,0-1-8], [8:Edge,0-1-8]

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	0.67	Vert(LL)	-0.04	7	>999	480	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.75	Vert(CT)	-0.05	7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.64	Horz(CT)	0.02	6	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-P							Weight: 45 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(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. (size) 8=0-3-8, 6=0-3-8
Max Grav 8=1814(LC 1), 6=1622(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-401/0, 2-3=-2977/0, 3-4=-2977/0
BOT CHORD 7-8=0/2304, 6-7=0/2281
WEBS 2-8=-2694/0, 2-7=0/796, 3-7=-832/0, 4-7=0/823, 4-6=-2668/0

NOTES-
1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 276 lb down at 0-11-12, 609 lb down at 0-11-12, 269 lb down at 2-11-12, 601 lb down at 2-11-12, 269 lb down at 4-11-12, and 601 lb down at 4-11-12, and 113 lb down at 6-5-8 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).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-8=-10, 1-5=-100
Concentrated Loads (lb)
Vert: 5=-113(F) 4=-870(F=-269, B=-601) 9=-885(F=-276, B=-609) 10=-870(F=-269, B=-601)

January 31,2022

ENGINEERING BY
TRENCO
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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	26 PRINCE PLACE - FLOOR
30139-30139A	KW1	GABLE	1	1	I49963384
					Job Reference (optional)

84 Components (Dunn), Dunn, NC - 28334, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:00:47 2022 Page 1
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0-1-8

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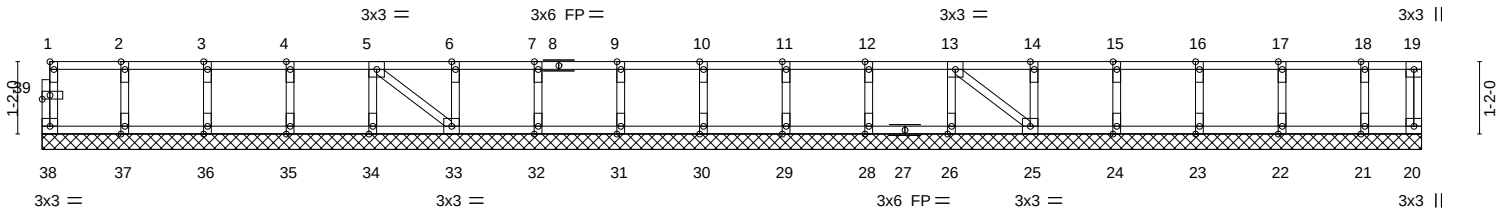

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0	16-0-0	17-4-0	18-8-0	20-0-0	21-4-0	22-3-0
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-11-0

Plate Offsets (X,Y)-- [1:Edge,0-0-12], [39:0-1-8,0-0-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	197/144
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	20	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 97 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD	2x4 SP No.2 or 2x4 SPF No.2(flat)
BOT CHORD	2x4 SP No.2 or 2x4 SPF No.2(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 22-3-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 38, 20, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 26, 25, 24, 23, 22, 21

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

NOTES-
1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
2) All plates are 1.5x4 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) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

January 31,2022

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	26 PRINCE PLACE - FLOOR
30139-30139A	KW2	GABLE	1	1	I49963385
					Job Reference (optional)

84 Components (Dunn), Dunn, NC - 28334, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:00:47 2022 Page 1
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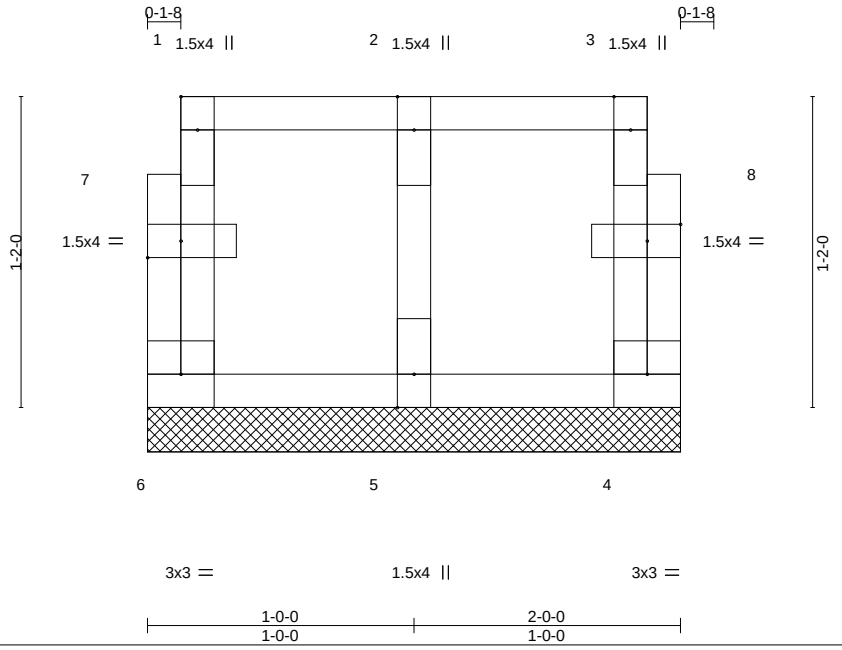

Plate Offsets (X,Y)-- [1:Edge,0-0-12], [7:0-1-8,0-0-12], [8:0-1-8,0-0-12]

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	0.03	Vert(LL)	n/a	-	n/a	999	MT20	197/144
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	0.02	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 12 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

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

REACTIONS. (size) 6=2-0-0, 4=2-0-0, 5=2-0-0
Max Grav 6=42(LC 1), 4=42(LC 1), 5=96(LC 1)

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

NOTES-
1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

January 31,2022

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	26 PRINCE PLACE - FLOOR
30139-30139A	KW3	Floor Supported Gable	1	1	I49963386
					Job Reference (optional)

84 Components (Dunn), Dunn, NC - 28334, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:00:48 2022 Page 1
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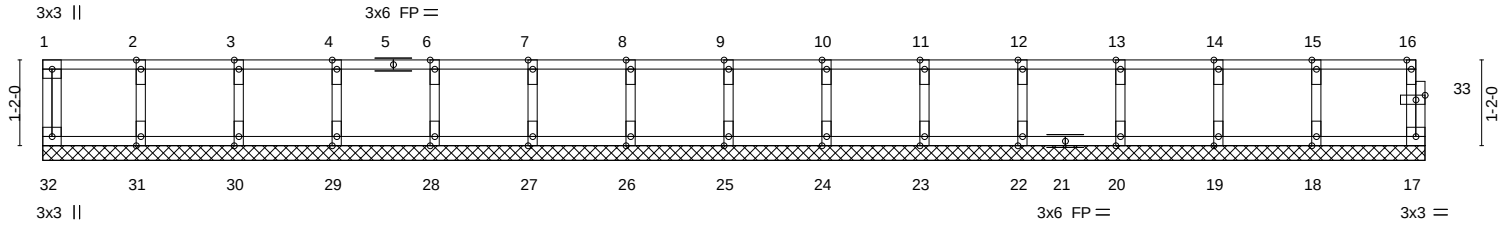

18-9-12
18-9-12

Plate Offsets (X,Y)-- [33:0-1-8,0-0-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	197/144
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	17	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 79 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD	2x4 SP No.2 or 2x4 SPF No.2(flat)
BOT CHORD	2x4 SP No.2 or 2x4 SPF No.2(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 18-9-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 32, 17, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22, 20, 19, 18

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

NOTES-

1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
2) All plates are 1.5x4 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) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	26 PRINCE PLACE - FLOOR
30139-30139A	KW4	GABLE	1	1	I49963387
					Job Reference (optional)

84 Components (Dunn), Dunn, NC - 28334, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:00:48 2022 Page 1
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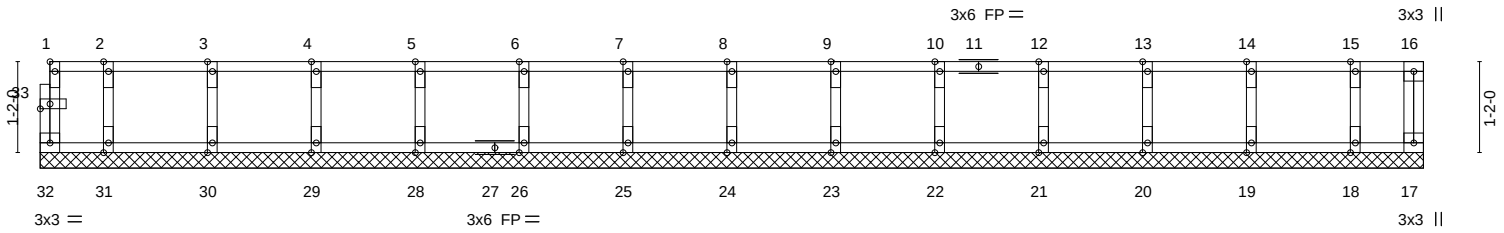

0-10-8	2-2-8	3-6-8	4-10-8	6-2-8	7-6-8	8-10-8	10-2-8	11-6-8	12-10-8	14-2-8	15-6-8	16-10-8	17-9-0
0-10-8	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-10-8

Plate Offsets (X,Y)-- [1:Edge,0-0-12], [33:0-1-8,0-0-12]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	197/144
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	17	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 76 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD	2x4 SP No.2 or 2x4 SPF No.2(flat)
BOT CHORD	2x4 SP No.2 or 2x4 SPF No.2(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 17-9-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 32, 17, 24, 25, 26, 28, 29, 30, 31, 23, 22, 21, 20, 19, 18

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

NOTES-

1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
2) All plates are 1.5x4 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) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

January 31,2022

ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	26 PRINCE PLACE - FLOOR
30139-30139A	KW5	GABLE	1	1	I49963388
					Job Reference (optional)

84 Components (Dunn), Dunn, NC - 28334, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:00:49 2022 Page 1
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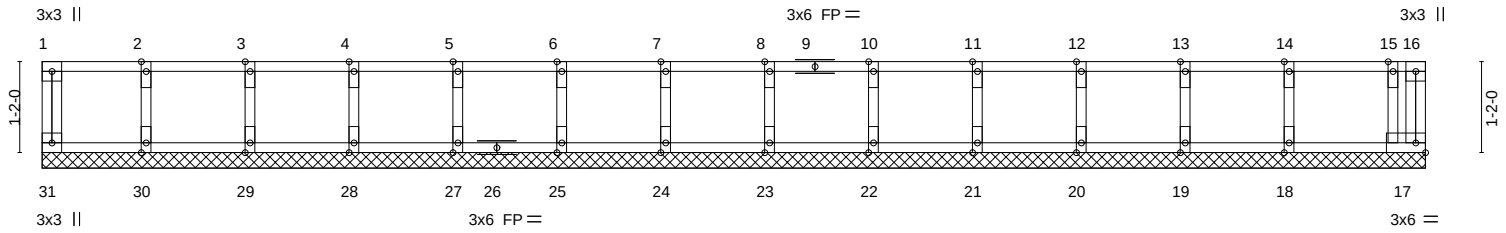

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0	16-0-0	17-4-0	17-9-0
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-5-0

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	0.09	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	17	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 76 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD	2x4 SP No.2 or 2x4 SPF No.2(flat)
BOT CHORD	2x4 SP No.2 or 2x4 SPF No.2(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 17-9-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 31, 17, 30, 29, 28, 27, 25, 24, 23, 22, 21, 20, 19, 18

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

NOTES-
1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
2) All plates are 1.5x4 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) 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.

January 31,2022

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	26 PRINCE PLACE - FLOOR
30139-30139A	KW6	GABLE	1	1	I49963389
					Job Reference (optional)

84 Components (Dunn), Dunn, NC - 28334, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:00:50 2022 Page 1
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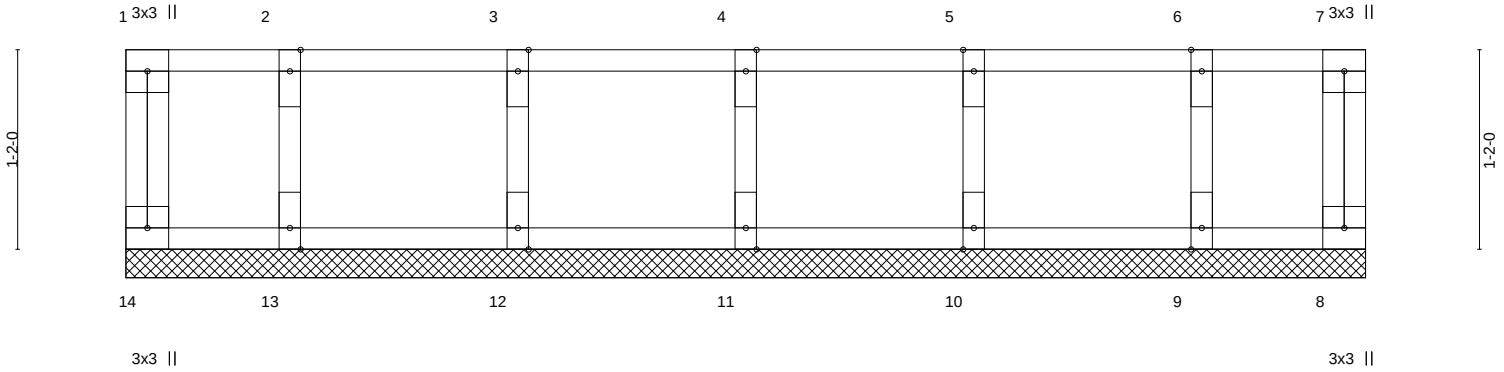

0-11-8	2-3-8	3-7-8	4-11-8	6-3-8	7-3-0
0-11-8	1-4-0	1-4-0	1-4-0	1-4-0	0-11-8

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	197/144
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	IRC2015/TPI2014	Matrix-R							Weight: 34 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD	2x4 SP No.2 or 2x4 SPF No.2(flat)
BOT CHORD	2x4 SP No.2 or 2x4 SPF No.2(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 7-3-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 14, 8, 11, 12, 13, 10, 9

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

NOTES-

1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
2) All plates are 1.5x4 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) 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.

January 31,2022

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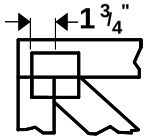
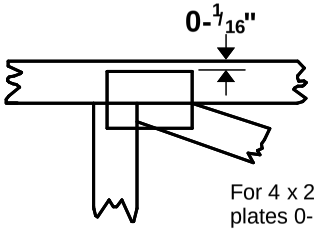
Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

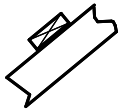
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

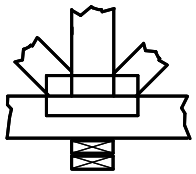
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING

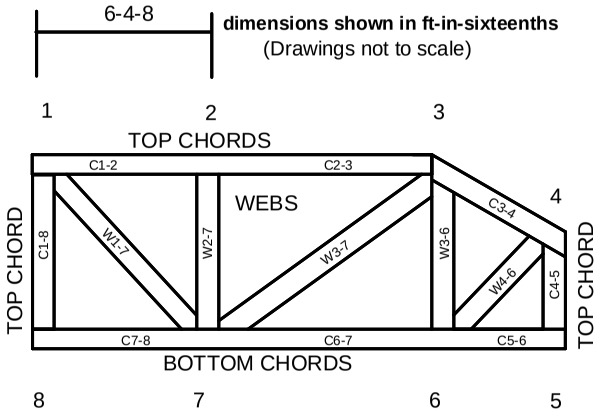


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

MiTek
ENGINEERING BY TRENCO
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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.