

Trenco  
818 Soundside Rd  
Edenton, NC 27932

Re: 30136-30136A  
26 PRINCE PLACE - ROOF

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: I49963390 thru I49963432

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.

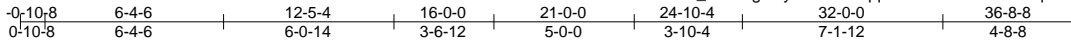
Job	Truss	Truss Type	Qty	Ply	26 PRINCE PLACE - ROOF	149963390
30136-30136A	A1E	GABLE	1	1	Job Reference (optional)	

84 Components (Dunn),

Dunn, NC - 28334,

8,530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:01:59 2022 Page 1

ID:BLJh112d3wvZK\_wUdDgFCyrbmE-wnlqxrMzIRkhBam44oMq4Nw5Le8Ql2Xog0NyXzqny



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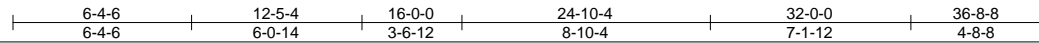
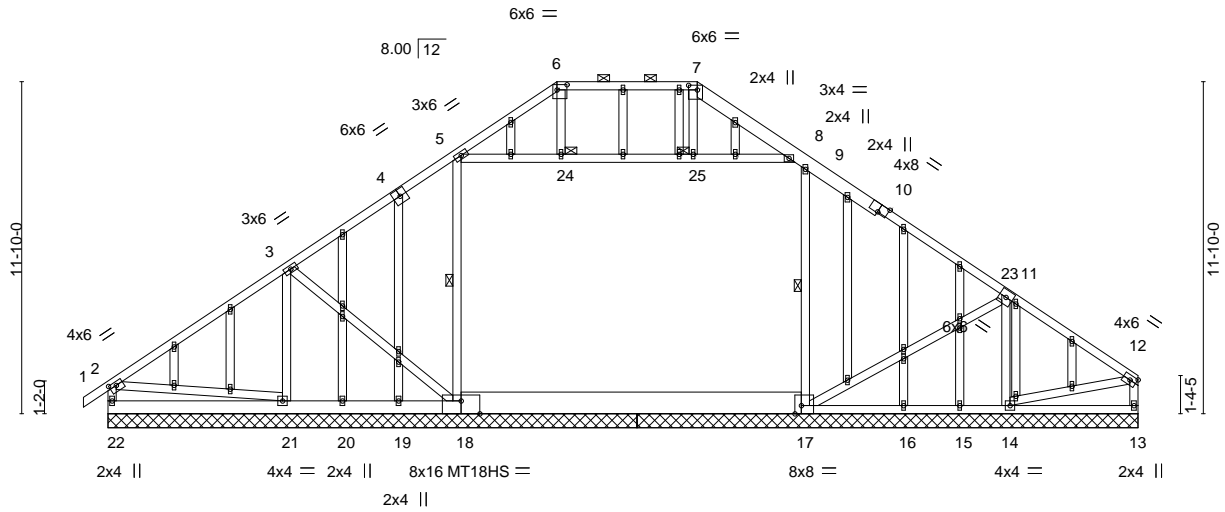


Plate Offsets (X,Y)-- [2:0-3-0,0-1-8], [6:0-4-4,0-2-4], [7:0-3-12,0-2-0], [10:0-4-0,Edge], [17:0-2-12,Edge], [18:0-8-0,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.47	Vert(LL)	-0.16 17-18	>915	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.82	Vert(CT)	-0.22 17-18	>671	180	MT18HS	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.18	Horz(CT)	0.00 13	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Attic	-0.16 17-18	909	360		
								Weight: 342 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 \*Except\*  
7-10: 2x6 SP No.2  
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 \*Except\*  
18-22: 2x6 SP DSS, 17-18: 2x10 SP No.2  
WEBS 2x4 SP No.3 \*Except\*  
5-18,9-17,5-8: 2x4 SP No.2 or 2x4 SPF No.2  
OTHERS 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 9-8-5 oc bracing: 18-19  
7-2-13 oc bracing: 17-18.  
WEBS 1 Row at midpt 5-18, 9-17  
JOINTS 1 Brace at Jt(s): 24, 25

**REACTIONS.** All bearings 18-10-4 except (jt=length) 17=17-10-4, 14=17-10-4, 13=17-10-4, 16=17-10-4, 15=17-10-4.  
(lb) - Max Horz 22=242(LC 11)  
Max Uplift All uplift 100 lb or less at joint(s) 22, 14, 16 except 19=-853(LC 18)  
Max Grav All reactions 250 lb or less at joint(s) 16, 15 except 22=415(LC 1), 18=1798(LC 20), 21=473(LC 1), 17=1224(LC 21), 14=454(LC 1), 13=261(LC 1), 20=253(LC 18)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-313/62, 3-5=-300/108, 5-6=-533/73, 6-7=-383/76, 7-8=-552/81, 8-9=-378/141, 9-11=-302/79, 2-22=-357/83  
BOT CHORD 21-22=-239/351, 20-21=-123/252, 19-20=-123/252, 18-19=-123/252  
WEBS 3-21=-362/73, 5-18=-573/78, 9-17=-659/111, 14-23=-394/119, 11-23=-381/149

**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 2-9-9, Exterior(2) 2-9-9 to 16-0-0, Corner(3) 16-0-0 to 19-8-1, Exterior(2) 19-8-1 to 21-0-0, Corner(3) 21-0-0 to 24-10-4, Exterior(2) 24-10-4 to 36-6-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) All plates are 1.5x4 MT20 unless otherwise indicated.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Ceiling dead load (5.0 psf) on member(s). 8-9, 5-24, 24-25, 8-25; Wall dead load (5.0psf) on member(s).5-18, 9-17
- 11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 17-18
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 22, 14, 16 except



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Continued on page 2

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road  
Edenton, NC 27932

Job 30136-30136A	Truss A1E	Truss Type GABLE	Qty 1	Ply 1	26 PRINCE PLACE - ROOF I49963390 Job Reference (optional)
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:01:59 2022 Page 2  
ID:BLJh1112d3wvZK\_wUdDgFCyrbmE-wnlqxrMzIRkhBam44oMq4Nw5Le8Ql2Xog0NyXzqny

**NOTES-**

- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Attic room checked for L/360 deflection.

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



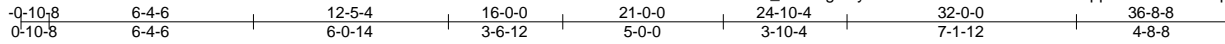
818 Soundside Road  
Edenton, NC 27932

Job 30136-30136A	Truss A2	Truss Type ROOF TRUSS	Qty 6	Ply 1	26 PRINCE PLACE - ROOF	149963391
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84 Components (Dunn), Dunn, NC - 28334,

8,530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:02:01 2022 Page 1

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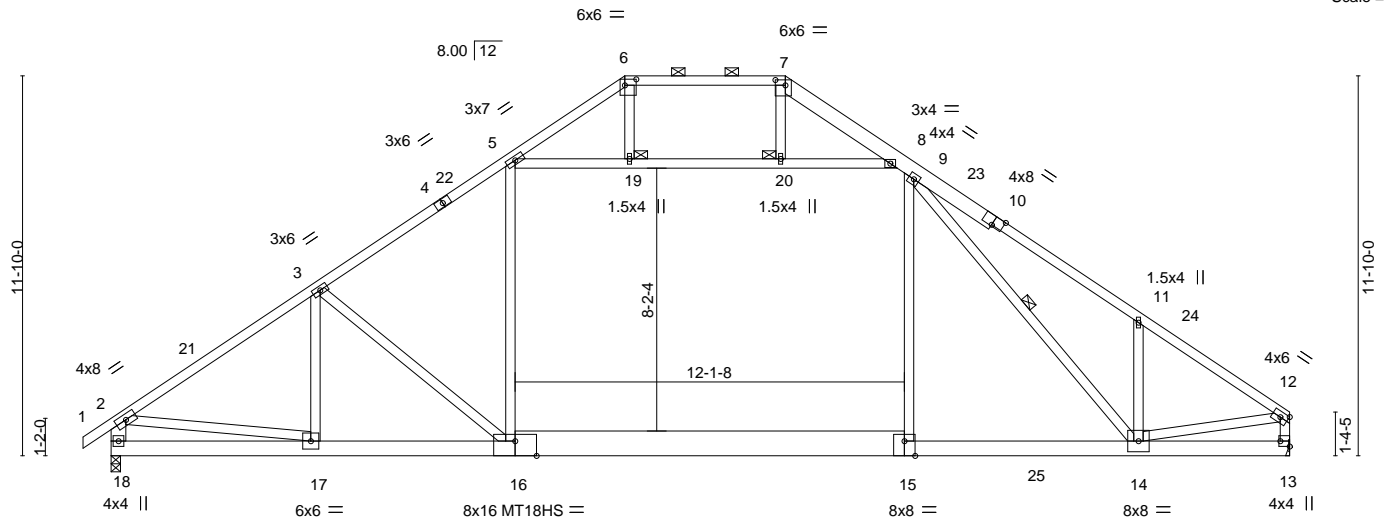


Plate Offsets (X, Y)-- [6:0-4-4,0-2-4], [7:0-3-12,0-2-0], [10:0-4-0,Edge], [13:Edge,0-3-8], [15:0-4-0,Edge], [16:0-8-0,Edge]

<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 20.0	Plate Grip DOL	1.15	TC 0.96	Vert(LL)	-0.41 14-15	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.95	Vert(CT)	-0.49 14-15	>882	180	MT18HS	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.82	Horz(CT)	0.04 13	n/a	n/a		
BCDL 10.0	Code IRC2015/TP12014		Matrix-MS	Attic	-0.32 15-16	448	360		
								Weight: 285 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except* 7-10: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD 2x6 SP No.2 *Except* 16-18: 2x6 SP DSS, 15-16: 2x10 SP DSS	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 5-16,9-15,5-8: 2x4 SP No.2 or 2x4 SPF No.2, 2-18: 2x6 SP No.2	WEBS 1 Row at midpt 9-14
	JOINTS 1 Brace at Jt(s): 19, 20

**REACTIONS.** (size) 18=0-3-8, 13=Mechanical  
 Max Horz 18=241(LC 11)  
 Max Grav 18=1947(LC 20), 13=1953(LC 21)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-2529/0, 3-5=-2539/0, 5-6=-602/72, 6-7=-438/72, 7-8=-622/72, 8-9=-1938/0,  
 9-11=-2617/0, 11-12=-2525/0, 2-18=-1840/0, 12-13=-1911/0  
 BOT CHORD 17-18=-157/555, 16-17=0/2172, 15-16=0/2091, 14-15=0/2077  
 WEBS 3-17=-429/119, 3-16=-355/281, 5-16=0/917, 9-15=0/933, 9-14=-335/350,  
 11-14=-407/215, 2-17=0/1638, 12-14=0/1997, 5-19=-1689/0, 19-20=-1682/0,  
 8-20=-1689/0

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-10-8 to 2-9-9, Interior(1) 2-9-9 to 16-0-0, Exterior(2) 16-0-0 to 26-2-5, Interior(1) 26-2-5 to 36-6-12 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) All plates are MT20 plates unless otherwise indicated.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 7) Ceiling dead load (5.0 psf) on member(s). 8-9, 5-19, 19-20, 8-20; Wall dead load (5.0psf) on member(s).5-16, 9-15
  - 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 15-16
  - 9) Refer to girder(s) for truss to truss connections.
  - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - 11) Attic room checked for L/360 deflection.



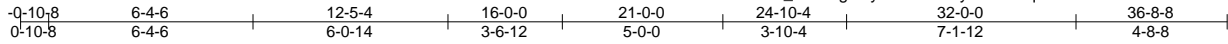
January 31, 2022

Job 30136-30136A	Truss A2A	Truss Type ROOF TRUSS	Qty 2	Ply 1	26 PRINCE PLACE - ROOF	149963392
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:02:02 2022 Page 1

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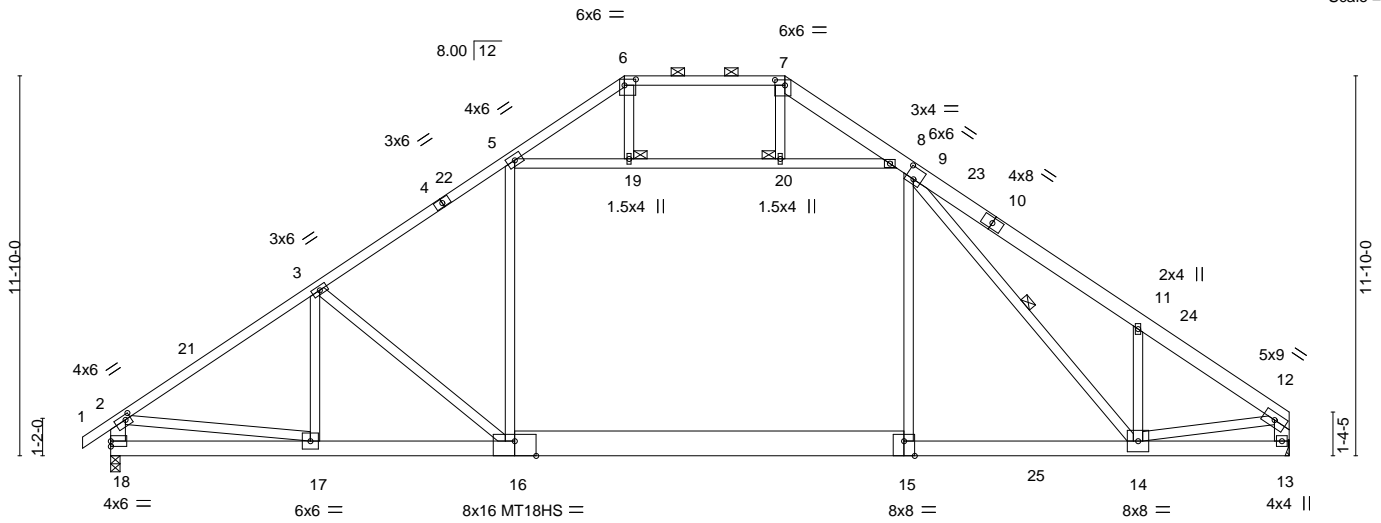


Plate Offsets (X, Y)--	[2:0-2-0,0-1-12], [6:0-4-4,0-2-4], [7:0-3-12,0-2-0], [9:0-3-0,0-4-4], [15:0-4-0,Edge], [16:0-8-0,Edge]
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<b>LOADING</b> (psf)	<b>SPACING-</b> 2-4-8	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.72	Vert(LL) -0.42 14-15 >999 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.87	Vert(CT) -0.51 14-15 >854 180	MT18HS	197/144
BCLL 0.0 *	Rep Stress Incr NO	WB 0.93	Horz(CT) 0.04 13 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Attic -0.34 15-16 430 360	Weight: 295 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except* 7-10,10-12: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-10-2 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD 2x6 SP DSS *Except* 15-16: 2x10 SP DSS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 7-10-3 oc bracing: 16-17.
WEBS 2x4 SP No.3 *Except* 5-16,9-15,5-8: 2x4 SP No.2 or 2x4 SPF No.2, 2-18,12-13: 2x6 SP No.2	WEBS 1 Row at midpt 9-14
	JOINTS 1 Brace at Jt(s): 19, 20

**REACTIONS.** (size) 18=0-3-8, 13=Mechanical  
Max Horz 18=285(LC 9)  
Max Grav 18=2307(LC 20), 13=2317(LC 21)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-2996/0, 3-5=-3000/0, 5-6=-727/94, 6-7=-532/93, 7-8=-745/89, 8-9=-2288/0, 9-11=-3159/12, 11-12=-3021/0, 2-18=-2180/0, 12-13=-2244/0  
BOT CHORD 17-18=-192/658, 16-17=0/2574, 15-16=0/2477, 14-15=0/2459, 13-14=-3/279  
WEBS 3-17=-485/126, 3-16=-407/308, 5-16=0/1083, 9-15=0/1131, 9-14=-419/475, 11-14=-534/271, 2-17=0/1946, 12-14=0/2266, 5-19=-1994/0, 19-20=-1985/0, 8-20=-1993/0

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-9-9, Interior(1) 2-9-9 to 16-0-0, Exterior(2) 16-0-0 to 26-2-5, Interior(1) 26-2-5 to 36-5-12 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) All plates are MT20 plates unless otherwise indicated.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 7) Ceiling dead load (5.0 psf) on member(s). 8-9, 5-19, 19-20, 8-20; Wall dead load (5.0psf) on member(s).5-16, 9-15
  - 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 15-16
  - 9) Refer to girder(s) for truss to truss connections.
  - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - 11) Attic room checked for L/360 deflection.



January 31, 2022

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**ENGINEERING BY**  
**TRENCO**  
A MiTek Affiliate

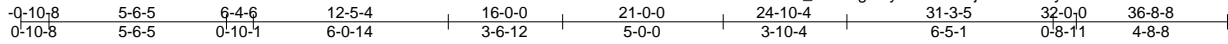
818 Soundside Road  
Edenton, NC 27932

Job 30136-30136A	Truss A3G	Truss Type ROOF TRUSS	Qty 1	Ply 2	26 PRINCE PLACE - ROOF Job Reference (optional)	149963393
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84 Components (Dunn), Dunn, NC - 28334,

8,530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:02:04 2022 Page 1

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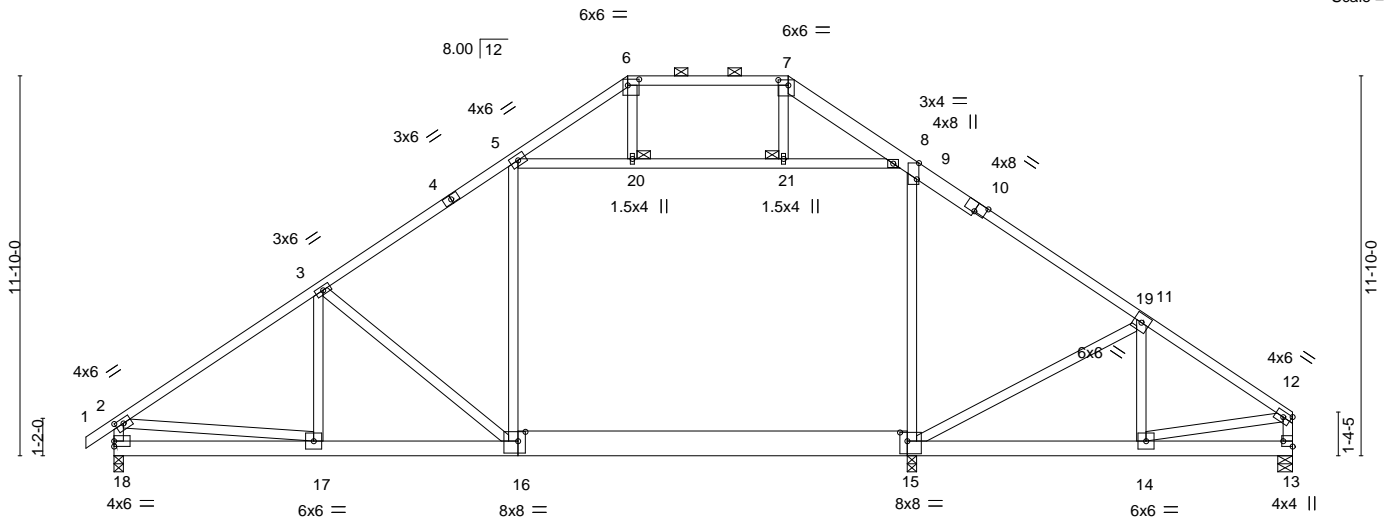


Plate Offsets (X, Y)--	[2:0-3-0,0-1-12], [6:0-4-4,0-2-4], [7:0-3-12,0-2-0], [9:0-6-1,Edge], [10:0-4-0,Edge], [13:Edge,0-3-8], [15:0-2-12,0-3-4], [16:0-2-12,0-3-8]
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<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.58	Vert(LL)	-0.18 15-16	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.71	Vert(CT)	-0.37 16-17	>806	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.81	Horz(CT)	0.04 13	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Attic	-0.10 15-16	1512	360	Weight: 559 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except* 7-10: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-10-5 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD 2x6 SP DSS *Except* 15-16: 2x10 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 5-16,9-15,5-8: 2x4 SP No.2 or 2x4 SPF No.2	JOINTS 1 Brace at Jt(s): 20, 21

<b>REACTIONS.</b>	(size) 18=0-3-8, 15=0-3-8, 13=0-5-8 Max Horz 18=240(LC 5) Max Uplift 18=110(LC 8), 15=1064(LC 20), 13=80(LC 8) Max Grav 18=3855(LC 42), 15=1644(LC 7), 13=3696(LC 42)
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<b>FORCES.</b>	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-5435/165, 3-5=-5496/195, 5-6=-690/40, 6-7=-523/40, 7-8=-760/49, 8-9=-4048/199, 9-11=-5561/250, 11-12=-4712/153, 2-18=-3749/145, 12-13=-3518/101
BOT CHORD	17-18=-236/695, 16-17=-186/4587, 15-16=-107/4643, 14-15=-76/3830, 13-14=-11/252
WEBS	3-17=-410/52, 3-16=-222/308, 5-16=-98/2576, 9-15=-228/2421, 15-19=-177/911, 14-19=-1082/84, 11-19=-698/104, 2-17=0/3929, 12-14=-81/3727, 5-20=-4161/256, 20-21=-4149/257, 8-21=-4163/257

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.  
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x10 - 2 rows staggered at 0-9-0 oc.  
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Ceiling dead load (5.0 psf) on member(s). 8-9, 5-20, 20-21, 8-21; Wall dead load (5.0psf) on member(s).5-16, 9-15
  - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 15-16
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (jt=lb) 18=110, 15=1064.
  - Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.



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**ENGINEERING BY**  
**TRENCO**  
A MiTek Affiliate

818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	26 PRINCE PLACE - ROOF	149963393
30136-30136A	A3G	ROOF TRUSS	1	2	Job Reference (optional)	

84 Components (Dunn), Dunn, NC - 28334,

8,530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:02:04 2022 Page 2  
ID:BLJh112d3wvZK\_wUdDgFCyrbmE-HkZjteVnr40nySktdOXX74I2MM45rNGxyj8dkzqny

**NOTES-**

- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1100 lb down at 24-10-4, and 2278 lb down and 203 lb up at 12-5-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 15) Attic room checked for L/360 deflection.

**LOAD CASE(S)** Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-60, 2-6=-60, 6-7=-60, 7-8=-60, 8-9=-70, 9-12=-60, 16-18=-20, 15-16=-30, 13-15=-20, 5-8=-10  
Drag: 5-16=-10, 9-15=-10  
Concentrated Loads (lb)  
Vert: 16=-2278(F) 15=-1100(F)
- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-50, 2-6=-50, 6-7=-50, 7-8=-50, 8-9=-60, 9-12=-50, 16-18=-20, 15-16=-90, 13-15=-20, 5-8=-10  
Drag: 5-16=-10, 9-15=-10  
Concentrated Loads (lb)  
Vert: 16=-1991(F) 15=-1100(F)
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-2=-20, 2-6=-20, 6-7=-20, 7-8=-20, 8-9=-30, 9-12=-20, 16-18=-40, 15-16=-30, 13-15=-40, 5-8=-10  
Drag: 5-16=-10, 9-15=-10  
Concentrated Loads (lb)  
Vert: 16=-1704(F) 15=-1100(F)
- 4) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-4, 2-6=-14, 6-7=18, 7-8=5, 8-9=-1, 9-12=5, 16-18=-12, 15-16=-18, 13-15=-12, 5-8=-6  
Horz: 1-2=-8, 2-6=2, 7-12=17, 2-18=12, 12-13=16  
Drag: 5-16=-10, 9-15=-10  
Concentrated Loads (lb)  
Vert: 16=195(F) 15=-1100(F)
- 5) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=1, 2-6=5, 6-7=18, 7-8=-14, 8-9=-20, 9-12=-14, 16-18=-12, 15-16=-18, 13-15=-12, 5-8=-6  
Horz: 1-2=-13, 2-6=-17, 7-12=-2, 2-18=-16, 12-13=-12  
Drag: 5-16=-10, 9-15=-10  
Concentrated Loads (lb)  
Vert: 16=195(F) 15=-1100(F)
- 6) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-27, 2-6=-31, 6-7=2, 7-8=-12, 8-9=-22, 9-12=-12, 16-18=-20, 15-16=-30, 13-15=-20, 5-8=-10  
Horz: 1-2=7, 2-6=11, 7-12=8, 2-18=21, 12-13=7  
Drag: 5-16=-10, 9-15=-10  
Concentrated Loads (lb)  
Vert: 16=203(F) 15=-1100(F)
- 7) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-7, 2-6=-12, 6-7=2, 7-8=-31, 8-9=-41, 9-12=-31, 16-18=-20, 15-16=-30, 13-15=-20, 5-8=-10  
Horz: 1-2=-13, 2-6=-8, 7-12=-11, 2-18=-7, 12-13=-21  
Drag: 5-16=-10, 9-15=-10  
Concentrated Loads (lb)  
Vert: 16=203(F) 15=-1100(F)
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=14, 2-6=18, 6-7=5, 7-8=5, 8-9=-1, 9-12=5, 16-18=-12, 15-16=-18, 13-15=-12, 5-8=-6  
Horz: 1-2=-26, 2-6=-30, 7-12=17, 2-18=10, 12-13=15  
Drag: 5-16=-10, 9-15=-10  
Concentrated Loads (lb)  
Vert: 16=195(F) 15=-1100(F)
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=1, 2-6=5, 6-7=5, 7-8=18, 8-9=12, 9-12=18, 16-18=-12, 15-16=-18, 13-15=-12, 5-8=-6  
Horz: 1-2=-13, 2-6=-17, 7-12=30, 2-18=-15, 12-13=-10  
Drag: 5-16=-10, 9-15=-10  
Concentrated Loads (lb)  
Vert: 16=195(F) 15=-1100(F)
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=14, 2-6=18, 6-7=5, 7-8=5, 8-9=-1, 9-12=5, 16-18=-12, 15-16=-18, 13-15=-12, 5-8=-6  
Horz: 1-2=-26, 2-6=-30, 7-12=17, 2-18=10, 12-13=15  
Drag: 5-16=-10, 9-15=-10  
Concentrated Loads (lb)  
Vert: 16=195(F) 15=-1100(F)
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

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818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	26 PRINCE PLACE - ROOF
30136-30136A	A3G	ROOF TRUSS	1	2	I49963393

84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:02:04 2022 Page 3  
ID:BLJh112d3wvZK\_wUdDgFCyrbmE-HkZjteVnr40nySktdOXX74I2MM45rNGxyj8dkzqny

**LOAD CASE(S)** Standard

- Uniform Loads (plf)  
Vert: 1-2=1, 2-6=5, 6-7=5, 7-8=18, 8-9=12, 9-12=18, 16-18=-12, 15-16=-18, 13-15=-12, 5-8=-6  
Horz: 1-2=-13, 2-6=-17, 7-12=30, 2-18=-15, 12-13=-10  
Drag: 5-16=-10, 9-15=-10
- Concentrated Loads (lb)  
Vert: 16=195(F) 15=-1100(F)
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=6, 2-6=2, 6-7=-12, 7-8=-12, 8-9=-22, 9-12=-12, 16-18=-20, 15-16=-30, 13-15=-20, 5-8=-10  
Horz: 1-2=-26, 2-6=-22, 7-12=8, 2-18=19, 12-13=6  
Drag: 5-16=-10, 9-15=-10
- Concentrated Loads (lb)  
Vert: 16=203(F) 15=-1100(F)
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-7, 2-6=-12, 6-7=-12, 7-8=2, 8-9=-8, 9-12=2, 16-18=-20, 15-16=-30, 13-15=-20, 5-8=-10  
Horz: 1-2=-13, 2-6=-8, 7-12=22, 2-18=-6, 12-13=-19  
Drag: 5-16=-10, 9-15=-10
- Concentrated Loads (lb)  
Vert: 16=203(F) 15=-1100(F)
- 15) Dead: Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (plf)  
Vert: 1-2=-20, 2-6=-20, 6-7=-20, 7-8=-20, 8-9=-30, 9-12=-20, 16-18=-20, 15-16=-110, 13-15=-20, 5-8=-10  
Drag: 5-16=-10, 9-15=-10
- Concentrated Loads (lb)  
Vert: 16=-1129(F) 15=-1100(F)
- 16) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-55, 2-6=-58, 6-7=-34, 7-8=-44, 8-9=-54, 9-12=-44, 16-18=-20, 15-16=-90, 13-15=-20, 5-8=-10  
Horz: 1-2=5, 2-6=8, 7-12=6, 2-18=16, 12-13=5  
Drag: 5-16=-10, 9-15=-10
- Concentrated Loads (lb)  
Vert: 16=-15(F) 15=-1100(F)
- 17) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-40, 2-6=-44, 6-7=-34, 7-8=-58, 8-9=-68, 9-12=-58, 16-18=-20, 15-16=-90, 13-15=-20, 5-8=-10  
Horz: 1-2=-10, 2-6=-6, 7-12=8, 2-18=-5, 12-13=-16  
Drag: 5-16=-10, 9-15=-10
- Concentrated Loads (lb)  
Vert: 16=-15(F) 15=-1100(F)
- 18) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-31, 2-6=-34, 6-7=-44, 7-8=-44, 8-9=-54, 9-12=-44, 16-18=-20, 15-16=-90, 13-15=-20, 5-8=-10  
Horz: 1-2=-19, 2-6=-16, 7-12=6, 2-18=14, 12-13=5  
Drag: 5-16=-10, 9-15=-10
- Concentrated Loads (lb)  
Vert: 16=-15(F) 15=-1100(F)
- 19) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-40, 2-6=-44, 6-7=-44, 7-8=-34, 8-9=-44, 9-12=-34, 16-18=-20, 15-16=-90, 13-15=-20, 5-8=-10  
Horz: 1-2=-10, 2-6=-6, 7-12=16, 2-18=-5, 12-13=-14  
Drag: 5-16=-10, 9-15=-10
- Concentrated Loads (lb)  
Vert: 16=-15(F) 15=-1100(F)
- 20) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-60, 2-6=-60, 6-7=-60, 7-8=-20, 8-9=-30, 9-12=-20, 16-18=-20, 15-16=-30, 13-15=-20, 5-8=-10  
Drag: 5-16=-10, 9-15=-10
- Concentrated Loads (lb)  
Vert: 16=-2278(F) 15=-1100(F)
- 21) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-20, 2-6=-20, 6-7=-60, 7-8=-60, 8-9=-70, 9-12=-60, 16-18=-20, 15-16=-30, 13-15=-20, 5-8=-10  
Drag: 5-16=-10, 9-15=-10
- Concentrated Loads (lb)  
Vert: 16=-2278(F) 15=-1100(F)
- 22) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-50, 2-6=-50, 6-7=-50, 7-8=-20, 8-9=-30, 9-12=-20, 16-18=-20, 15-16=-90, 13-15=-20, 5-8=-10  
Drag: 5-16=-10, 9-15=-10
- Concentrated Loads (lb)  
Vert: 16=-1991(F) 15=-1100(F)
- 23) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15

Continued on page 4

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818 Soundside Road  
Edenton, NC 27932



Job	Truss	Truss Type	Qty	Ply	26 PRINCE PLACE - ROOF	I49963393
30136-30136A	A3G	ROOF TRUSS	1	2	Job Reference (optional)	

84 Components (Dunn), Dunn, NC - 28334,

8,530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:02:04 2022 Page 4  
ID:BLJh112d3wvZK\_wUdDgFCyrbmE-HkZjteVnr40nySktdOXX74I2MM45rNGxyj8dkzqny

**LOAD CASE(S)** Standard

- Uniform Loads (plf)  
Vert: 1-2=-20, 2-6=-20, 6-7=-50, 7-8=-50, 8-9=-60, 9-12=-50, 16-18=-20, 15-16=-90, 13-15=-20, 5-8=-10  
Drag: 5-16=-10, 9-15=-10
- Concentrated Loads (lb)  
Vert: 16=-1991(F) 15=-1100(F)
- 24) Reversal: Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-60, 2-6=-60, 6-7=-60, 7-8=-60, 8-9=-70, 9-12=-60, 16-18=-20, 15-16=-30, 13-15=-20, 5-8=-10  
Drag: 5-16=-10, 9-15=-10
- Concentrated Loads (lb)  
Vert: 16=-1129(F) 15=-1100(F)
- 25) Reversal: Dead + 0.75 Roof Live (balanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-50, 2-6=-50, 6-7=-50, 7-8=-50, 8-9=-60, 9-12=-50, 16-18=-20, 15-16=-90, 13-15=-20, 5-8=-10  
Drag: 5-16=-10, 9-15=-10
- Concentrated Loads (lb)  
Vert: 16=-1129(F) 15=-1100(F)
- 27) Reversal: Dead: Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (plf)  
Vert: 1-2=-20, 2-6=-20, 6-7=-20, 7-8=-20, 8-9=-30, 9-12=-20, 16-18=-20, 15-16=-110, 13-15=-20, 5-8=-10  
Drag: 5-16=-10, 9-15=-10
- Concentrated Loads (lb)  
Vert: 16=-1129(F) 15=-1100(F)
- 28) Reversal: 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-60, 2-6=-60, 6-7=-60, 7-8=-20, 8-9=-30, 9-12=-20, 16-18=-20, 15-16=-30, 13-15=-20, 5-8=-10  
Drag: 5-16=-10, 9-15=-10
- Concentrated Loads (lb)  
Vert: 16=-1129(F) 15=-1100(F)
- 29) Reversal: 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-20, 2-6=-20, 6-7=-60, 7-8=-60, 8-9=-70, 9-12=-60, 16-18=-20, 15-16=-30, 13-15=-20, 5-8=-10  
Drag: 5-16=-10, 9-15=-10
- Concentrated Loads (lb)  
Vert: 16=-1129(F) 15=-1100(F)
- 30) Reversal: 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-50, 2-6=-50, 6-7=-50, 7-8=-20, 8-9=-30, 9-12=-20, 16-18=-20, 15-16=-90, 13-15=-20, 5-8=-10  
Drag: 5-16=-10, 9-15=-10
- Concentrated Loads (lb)  
Vert: 16=-1129(F) 15=-1100(F)
- 31) Reversal: 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-20, 2-6=-20, 6-7=-50, 7-8=-50, 8-9=-60, 9-12=-50, 16-18=-20, 15-16=-90, 13-15=-20, 5-8=-10  
Drag: 5-16=-10, 9-15=-10
- Concentrated Loads (lb)  
Vert: 16=-1129(F) 15=-1100(F)
- 32) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-4, 2-6=-14, 6-7=18, 7-8=5, 8-9=-1, 9-12=5, 16-18=-12, 15-16=-18, 13-15=-12, 5-8=-6  
Horz: 1-2=-8, 2-6=2, 7-12=17, 2-18=12, 12-13=16  
Drag: 5-16=-10, 9-15=-10
- Concentrated Loads (lb)  
Vert: 16=-1539(F) 15=-1100(F)
- 33) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=1, 2-6=5, 6-7=18, 7-8=-14, 8-9=-20, 9-12=-14, 16-18=-12, 15-16=-18, 13-15=-12, 5-8=-6  
Horz: 1-2=-13, 2-6=-17, 7-12=-2, 2-18=-16, 12-13=-12  
Drag: 5-16=-10, 9-15=-10
- Concentrated Loads (lb)  
Vert: 16=-1539(F) 15=-1100(F)
- 34) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-27, 2-6=-31, 6-7=2, 7-8=-12, 8-9=-22, 9-12=-12, 16-18=-20, 15-16=-30, 13-15=-20, 5-8=-10  
Horz: 1-2=7, 2-6=11, 7-12=8, 2-18=21, 12-13=7  
Drag: 5-16=-10, 9-15=-10
- Concentrated Loads (lb)  
Vert: 16=-1531(F) 15=-1100(F)
- 35) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-7, 2-6=-12, 6-7=2, 7-8=-31, 8-9=-41, 9-12=-31, 16-18=-20, 15-16=-30, 13-15=-20, 5-8=-10  
Horz: 1-2=-13, 2-6=-8, 7-12=-11, 2-18=-7, 12-13=-21  
Drag: 5-16=-10, 9-15=-10
- Concentrated Loads (lb)  
Vert: 16=-1531(F) 15=-1100(F)

Continued on page 5

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Job	Truss	Truss Type	Qty	Ply	26 PRINCE PLACE - ROOF	I49963393
30136-30136A	A3G	ROOF TRUSS	1	2	Job Reference (optional)	

84 Components (Dunn), Dunn, NC - 28334,

8,530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:02:04 2022 Page 5  
ID:BLJh112d3wvZK\_wUdDgFCyrbmE-HkZjteVnr40nySktdOXX74I2MM45rNGxyj8dkzqny

**LOAD CASE(S)** Standard

- 36) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=14, 2-6=18, 6-7=5, 7-8=5, 8-9=-1, 9-12=5, 16-18=-12, 15-16=-18, 13-15=-12, 5-8=-6  
Horz: 1-2=-26, 2-6=-30, 7-12=17, 2-18=10, 12-13=15  
Drag: 5-16=-10, 9-15=-10  
Concentrated Loads (lb)  
Vert: 16=-1539(F) 15=-1100(F)
- 37) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=1, 2-6=5, 6-7=5, 7-8=18, 8-9=12, 9-12=18, 16-18=-12, 15-16=-18, 13-15=-12, 5-8=-6  
Horz: 1-2=-13, 2-6=-17, 7-12=30, 2-18=-15, 12-13=-10  
Drag: 5-16=-10, 9-15=-10  
Concentrated Loads (lb)  
Vert: 16=-1539(F) 15=-1100(F)
- 38) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=14, 2-6=18, 6-7=5, 7-8=5, 8-9=-1, 9-12=5, 16-18=-12, 15-16=-18, 13-15=-12, 5-8=-6  
Horz: 1-2=-26, 2-6=-30, 7-12=17, 2-18=10, 12-13=15  
Drag: 5-16=-10, 9-15=-10  
Concentrated Loads (lb)  
Vert: 16=-1539(F) 15=-1100(F)
- 39) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=1, 2-6=5, 6-7=5, 7-8=18, 8-9=12, 9-12=18, 16-18=-12, 15-16=-18, 13-15=-12, 5-8=-6  
Horz: 1-2=-13, 2-6=-17, 7-12=30, 2-18=-15, 12-13=-10  
Drag: 5-16=-10, 9-15=-10  
Concentrated Loads (lb)  
Vert: 16=-1539(F) 15=-1100(F)
- 40) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=6, 2-6=2, 6-7=-12, 7-8=-12, 8-9=-22, 9-12=-12, 16-18=-20, 15-16=-30, 13-15=-20, 5-8=-10  
Horz: 1-2=-26, 2-6=-22, 7-12=8, 2-18=19, 12-13=6  
Drag: 5-16=-10, 9-15=-10  
Concentrated Loads (lb)  
Vert: 16=-1531(F) 15=-1100(F)
- 41) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-7, 2-6=-12, 6-7=-12, 7-8=2, 8-9=-8, 9-12=2, 16-18=-20, 15-16=-30, 13-15=-20, 5-8=-10  
Horz: 1-2=-13, 2-6=-8, 7-12=22, 2-18=-6, 12-13=19  
Drag: 5-16=-10, 9-15=-10  
Concentrated Loads (lb)  
Vert: 16=-1531(F) 15=-1100(F)
- 42) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-55, 2-6=-58, 6-7=-34, 7-8=-44, 8-9=-54, 9-12=-44, 16-18=-20, 15-16=-90, 13-15=-20, 5-8=-10  
Horz: 1-2=5, 2-6=8, 7-12=6, 2-18=16, 12-13=5  
Drag: 5-16=-10, 9-15=-10  
Concentrated Loads (lb)  
Vert: 16=-2076(F) 15=-1100(F)
- 43) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-40, 2-6=-44, 6-7=-34, 7-8=-58, 8-9=-68, 9-12=-58, 16-18=-20, 15-16=-90, 13-15=-20, 5-8=-10  
Horz: 1-2=-10, 2-6=-6, 7-12=8, 2-18=5, 12-13=16  
Drag: 5-16=-10, 9-15=-10  
Concentrated Loads (lb)  
Vert: 16=-2076(F) 15=-1100(F)
- 44) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-31, 2-6=-34, 6-7=-44, 7-8=-44, 8-9=-54, 9-12=-44, 16-18=-20, 15-16=-90, 13-15=-20, 5-8=-10  
Horz: 1-2=-19, 2-6=-16, 7-12=6, 2-18=14, 12-13=5  
Drag: 5-16=-10, 9-15=-10  
Concentrated Loads (lb)  
Vert: 16=-2076(F) 15=-1100(F)
- 45) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-40, 2-6=-44, 6-7=-44, 7-8=-34, 8-9=-44, 9-12=-34, 16-18=-20, 15-16=-90, 13-15=-20, 5-8=-10  
Horz: 1-2=-10, 2-6=-6, 7-12=16, 2-18=5, 12-13=14  
Drag: 5-16=-10, 9-15=-10  
Concentrated Loads (lb)  
Vert: 16=-2076(F) 15=-1100(F)

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

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**ANSI/TPI 1 Quality Criteria, DSB-89 and BCSI Building Component**

**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road  
Edenton, NC 27932



Job	Truss	Truss Type	Qty	Ply	26 PRINCE PLACE - ROOF	149963394
30136-30136A	A4G	ROOF TRUSS	1	2	Job Reference (optional)	

84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:02:06 2022 Page 2  
ID:BLJh112d3wvZK\_wUdDgFCyrbmE-D7hTIKX9JSKk1Gc6\_2Q?cYA799\_?ZoZZPGCFhdzqnyl

**NOTES-**

- 11) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1100 lb down at 25-0-0, and 2261 lb down and 202 lb up at 12-5-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 14) Attic room checked for L/360 deflection.

**LOAD CASE(S)** Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-60, 2-6=-60, 6-7=-60, 7-8=-60, 8-9=-70, 9-12=-60, 17-19=-20, 15-17=-30, 13-15=-20, 5-8=-10  
Drag: 5-17=-10, 9-15=-10  
Concentrated Loads (lb)  
Vert: 17=-2261(B) 15=-1100(F)
- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-50, 2-6=-50, 6-7=-50, 7-8=-50, 8-9=-60, 9-12=-50, 19-22=-20, 17-22=-50, 16-17=-90, 15-16=-90, 13-15=-20, 5-8=-10  
Drag: 5-17=-10, 9-15=-10  
Concentrated Loads (lb)  
Vert: 17=-1976(B) 15=-1100(F)
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-2=-20, 2-6=-20, 6-7=-20, 7-8=-20, 8-9=-30, 9-12=-20, 17-19=-40, 15-17=-30, 13-15=-40, 5-8=-10  
Drag: 5-17=-10, 9-15=-10  
Concentrated Loads (lb)  
Vert: 17=-1691(B) 15=-1100(F)
- 4) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-4, 2-6=-14, 6-7=18, 7-8=5, 8-9=-1, 9-12=5, 17-19=-12, 15-17=-18, 13-15=-12, 5-8=-6  
Horz: 1-2=-8, 2-6=2, 7-12=17, 2-19=12, 12-13=16  
Drag: 5-17=-10, 9-15=-10  
Concentrated Loads (lb)  
Vert: 17=194(B) 15=-1100(F)
- 5) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=1, 2-6=5, 6-7=18, 7-8=-14, 8-9=-20, 9-12=14, 17-19=-12, 15-17=-18, 13-15=-12, 5-8=-6  
Horz: 1-2=-13, 2-6=17, 7-12=-2, 2-19=-16, 12-13=-12  
Drag: 5-17=-10, 9-15=-10  
Concentrated Loads (lb)  
Vert: 17=194(B) 15=-1100(F)
- 6) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-27, 2-6=-31, 6-7=2, 7-8=-12, 8-9=-22, 9-12=-12, 17-19=-20, 15-17=-30, 13-15=-20, 5-8=-10  
Horz: 1-2=7, 2-6=11, 7-12=8, 2-19=21, 12-13=7  
Drag: 5-17=-10, 9-15=-10  
Concentrated Loads (lb)  
Vert: 17=202(B) 15=-1100(F)
- 7) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-7, 2-6=-12, 6-7=2, 7-8=-31, 8-9=-41, 9-12=-31, 17-19=-20, 15-17=-30, 13-15=-20, 5-8=-10  
Horz: 1-2=-13, 2-6=-8, 7-12=-11, 2-19=-7, 12-13=-21  
Drag: 5-17=-10, 9-15=-10  
Concentrated Loads (lb)  
Vert: 17=202(B) 15=-1100(F)
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=14, 2-6=18, 6-7=5, 7-8=5, 8-9=-1, 9-12=5, 17-19=-12, 15-17=-18, 13-15=-12, 5-8=-6  
Horz: 1-2=-26, 2-6=-30, 7-12=17, 2-19=10, 12-13=15  
Drag: 5-17=-10, 9-15=-10  
Concentrated Loads (lb)  
Vert: 17=194(B) 15=-1100(F)
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=1, 2-6=5, 6-7=5, 7-8=18, 8-9=12, 9-12=18, 17-19=-12, 15-17=-18, 13-15=-12, 5-8=-6  
Horz: 1-2=-13, 2-6=-17, 7-12=30, 2-19=-15, 12-13=-10  
Drag: 5-17=-10, 9-15=-10  
Concentrated Loads (lb)  
Vert: 17=194(B) 15=-1100(F)
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=14, 2-6=18, 6-7=5, 7-8=5, 8-9=-1, 9-12=5, 17-19=-12, 15-17=-18, 13-15=-12, 5-8=-6  
Horz: 1-2=-26, 2-6=-30, 7-12=17, 2-19=10, 12-13=15  
Drag: 5-17=-10, 9-15=-10  
Concentrated Loads (lb)  
Vert: 17=194(B) 15=-1100(F)
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

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818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	26 PRINCE PLACE - ROOF	I49963394
30136-30136A	A4G	ROOF TRUSS	1	2	Job Reference (optional)	

84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:02:07 2022 Page 3  
ID:BLJh1112d3wvZK\_wUdDgFCyrbmE-hJErVgYn4mSbeQBjYixE9milvZKEIFpiewyoE3zqnyk

**LOAD CASE(S)** Standard

- Uniform Loads (plf)  
Vert: 1-2=1, 2-6=5, 6-7=5, 7-8=18, 8-9=12, 9-12=18, 17-19=-12, 15-17=-18, 13-15=-12, 5-8=-6  
Horz: 1-2=-13, 2-6=-17, 7-12=30, 2-19=-15, 12-13=-10  
Drag: 5-17=-10, 9-15=-10
- Concentrated Loads (lb)  
Vert: 17=194(B) 15=-1100(F)
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=6, 2-6=2, 6-7=-12, 7-8=-12, 8-9=-22, 9-12=-12, 17-19=-20, 15-17=-30, 13-15=-20, 5-8=-10  
Horz: 1-2=-26, 2-6=-22, 7-12=8, 2-19=19, 12-13=6  
Drag: 5-17=-10, 9-15=-10
- Concentrated Loads (lb)  
Vert: 17=202(B) 15=-1100(F)
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-7, 2-6=-12, 6-7=-12, 7-8=2, 8-9=-8, 9-12=2, 17-19=-20, 15-17=-30, 13-15=-20, 5-8=-10  
Horz: 1-2=-13, 2-6=-8, 7-12=22, 2-19=-6, 12-13=-19  
Drag: 5-17=-10, 9-15=-10
- Concentrated Loads (lb)  
Vert: 17=202(B) 15=-1100(F)
- 15) Dead + Uninhabitable Attic Storage: Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (plf)  
Vert: 1-2=-20, 2-6=-20, 6-7=-20, 7-8=-20, 8-9=-30, 9-12=-20, 19-22=-20, 17-22=-60, 16-17=-110, 15-16=-110, 13-15=-20, 5-8=-10  
Drag: 5-17=-10, 9-15=-10
- Concentrated Loads (lb)  
Vert: 17=-1121(B) 15=-1100(F)
- 16) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-55, 2-6=-58, 6-7=-34, 7-8=-44, 8-9=-54, 9-12=-44, 19-22=-20, 17-22=-50, 16-17=-90, 15-16=-90, 13-15=-20, 5-8=-10  
Horz: 1-2=5, 2-6=8, 7-12=6, 2-19=16, 12-13=5  
Drag: 5-17=-10, 9-15=-10
- Concentrated Loads (lb)  
Vert: 17=-15(B) 15=-1100(F)
- 17) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-40, 2-6=-44, 6-7=-34, 7-8=-58, 8-9=-68, 9-12=-58, 19-22=-20, 17-22=-50, 16-17=-90, 15-16=-90, 13-15=-20, 5-8=-10  
Horz: 1-2=-10, 2-6=-6, 7-12=8, 2-19=-5, 12-13=-16  
Drag: 5-17=-10, 9-15=-10
- Concentrated Loads (lb)  
Vert: 17=-15(B) 15=-1100(F)
- 18) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-31, 2-6=-34, 6-7=-44, 7-8=-44, 8-9=-54, 9-12=-44, 19-22=-20, 17-22=-50, 16-17=-90, 15-16=-90, 13-15=-20, 5-8=-10  
Horz: 1-2=-19, 2-6=-16, 7-12=6, 2-19=14, 12-13=5  
Drag: 5-17=-10, 9-15=-10
- Concentrated Loads (lb)  
Vert: 17=-15(B) 15=-1100(F)
- 19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-40, 2-6=-44, 6-7=-44, 7-8=-34, 8-9=-44, 9-12=-34, 19-22=-20, 17-22=-50, 16-17=-90, 15-16=-90, 13-15=-20, 5-8=-10  
Horz: 1-2=-10, 2-6=-6, 7-12=16, 2-19=-5, 12-13=-14  
Drag: 5-17=-10, 9-15=-10
- Concentrated Loads (lb)  
Vert: 17=-15(B) 15=-1100(F)
- 20) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-60, 2-6=-60, 6-7=-60, 7-8=-20, 8-9=-30, 9-12=-20, 17-19=-20, 15-17=-30, 13-15=-20, 5-8=-10  
Drag: 5-17=-10, 9-15=-10
- Concentrated Loads (lb)  
Vert: 17=-2261(B) 15=-1100(F)
- 21) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-20, 2-6=-20, 6-7=-60, 7-8=-60, 8-9=-70, 9-12=-60, 17-19=-20, 15-17=-30, 13-15=-20, 5-8=-10  
Drag: 5-17=-10, 9-15=-10
- Concentrated Loads (lb)  
Vert: 17=-2261(B) 15=-1100(F)
- 22) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15

Continued on page 4

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818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	26 PRINCE PLACE - ROOF	149963394
30136-30136A	A4G	ROOF TRUSS	1	2	Job Reference (optional)	

84 Components (Dunn), Dunn, NC - 28334,

8,530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:02:07 2022 Page 4  
ID:BLJh1112d3wvZK\_wUdDgFCyrbmE-hJErVgYn4mSbeQBjYixE9milvZKEIFpiewyoE3zqnyk

**LOAD CASE(S)** Standard

- Uniform Loads (plf)  
Vert: 1-2=-50, 2-6=-50, 6-7=-50, 7-8=-20, 8-9=-30, 9-12=-20, 19-22=-20, 17-22=-50, 16-17=-90, 15-16=-90, 13-15=-20, 5-8=-10  
Drag: 5-17=-10, 9-15=-10
- Concentrated Loads (lb)  
Vert: 17=-1976(B) 15=-1100(F)
- 23) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-20, 2-6=-20, 6-7=-50, 7-8=-50, 8-9=-60, 9-12=-50, 19-22=-20, 17-22=-50, 16-17=-90, 15-16=-90, 13-15=-20, 5-8=-10  
Drag: 5-17=-10, 9-15=-10  
Concentrated Loads (lb)  
Vert: 17=-1976(B) 15=-1100(F)
- 24) Reversal: Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-60, 2-6=-60, 6-7=-60, 7-8=-60, 8-9=-70, 9-12=-60, 17-19=-20, 15-17=-30, 13-15=-20, 5-8=-10  
Drag: 5-17=-10, 9-15=-10  
Concentrated Loads (lb)  
Vert: 17=-1121(B) 15=-1100(F)
- 25) Reversal: Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-50, 2-6=-50, 6-7=-50, 7-8=-50, 8-9=-60, 9-12=-50, 19-22=-20, 17-22=-50, 16-17=-90, 15-16=-90, 13-15=-20, 5-8=-10  
Drag: 5-17=-10, 9-15=-10  
Concentrated Loads (lb)  
Vert: 17=-1121(B) 15=-1100(F)
- 27) Reversal: Dead + Uninhabitable Attic Storage: Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (plf)  
Vert: 1-2=-20, 2-6=-20, 6-7=-20, 7-8=-20, 8-9=-30, 9-12=-20, 19-22=-20, 17-22=-60, 16-17=-110, 15-16=-110, 13-15=-20, 5-8=-10  
Drag: 5-17=-10, 9-15=-10  
Concentrated Loads (lb)  
Vert: 17=-1121(B) 15=-1100(F)
- 28) Reversal: 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-60, 2-6=-60, 6-7=-60, 7-8=-20, 8-9=-30, 9-12=-20, 17-19=-20, 15-17=-30, 13-15=-20, 5-8=-10  
Drag: 5-17=-10, 9-15=-10  
Concentrated Loads (lb)  
Vert: 17=-1121(B) 15=-1100(F)
- 29) Reversal: 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-20, 2-6=-20, 6-7=-60, 7-8=-60, 8-9=-70, 9-12=-60, 17-19=-20, 15-17=-30, 13-15=-20, 5-8=-10  
Drag: 5-17=-10, 9-15=-10  
Concentrated Loads (lb)  
Vert: 17=-1121(B) 15=-1100(F)
- 30) Reversal: 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-50, 2-6=-50, 6-7=-50, 7-8=-20, 8-9=-30, 9-12=-20, 19-22=-20, 17-22=-50, 16-17=-90, 15-16=-90, 13-15=-20, 5-8=-10  
Drag: 5-17=-10, 9-15=-10  
Concentrated Loads (lb)  
Vert: 17=-1121(B) 15=-1100(F)
- 31) Reversal: 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-20, 2-6=-20, 6-7=-50, 7-8=-50, 8-9=-60, 9-12=-50, 19-22=-20, 17-22=-50, 16-17=-90, 15-16=-90, 13-15=-20, 5-8=-10  
Drag: 5-17=-10, 9-15=-10  
Concentrated Loads (lb)  
Vert: 17=-1121(B) 15=-1100(F)
- 32) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-4, 2-6=-14, 6-7=18, 7-8=5, 8-9=-1, 9-12=5, 17-19=-12, 15-17=-18, 13-15=-12, 5-8=-6  
Horz: 1-2=8, 2-6=2, 7-12=17, 2-19=12, 12-13=16  
Drag: 5-17=-10, 9-15=-10  
Concentrated Loads (lb)  
Vert: 17=-1533(B) 15=-1100(F)
- 33) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=1, 2-6=5, 6-7=18, 7-8=-14, 8-9=-20, 9-12=-14, 17-19=-12, 15-17=-18, 13-15=-12, 5-8=-6  
Horz: 1-2=-13, 2-6=-17, 7-12=-2, 2-19=-16, 12-13=-12  
Drag: 5-17=-10, 9-15=-10  
Concentrated Loads (lb)  
Vert: 17=-1533(B) 15=-1100(F)
- 34) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-27, 2-6=-31, 6-7=2, 7-8=-12, 8-9=-22, 9-12=-12, 17-19=-20, 15-17=-30, 13-15=-20, 5-8=-10  
Horz: 1-2=7, 2-6=11, 7-12=8, 2-19=21, 12-13=7  
Drag: 5-17=-10, 9-15=-10  
Concentrated Loads (lb)  
Vert: 17=-1525(B) 15=-1100(F)

Continued on page 5

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**  
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818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	26 PRINCE PLACE - ROOF	I49963394
30136-30136A	A4G	ROOF TRUSS	1	<b>2</b>	Job Reference (optional)	

84 Components (Dunn), Dunn, NC - 28334,

8,530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:02:07 2022 Page 5  
ID:BLJh1112d3wvZK\_wUdDgFCyrbmE-hJErVgYn4mSbeQBjYixE9milvZKEIFpiewyoE3zqnyk

**LOAD CASE(S)** Standard

- 35) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-7, 2-6=-12, 6-7=2, 7-8=-31, 8-9=-41, 9-12=-31, 17-19=-20, 15-17=-30, 13-15=-20, 5-8=-10  
Horz: 1-2=-13, 2-6=-8, 7-12=-11, 2-19=-7, 12-13=-21  
Drag: 5-17=-10, 9-15=-10  
Concentrated Loads (lb)  
Vert: 17=-1525(B) 15=-1100(F)
- 36) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=14, 2-6=18, 6-7=5, 7-8=5, 8-9=-1, 9-12=5, 17-19=-12, 15-17=-18, 13-15=-12, 5-8=-6  
Horz: 1-2=-26, 2-6=-30, 7-12=17, 2-19=10, 12-13=15  
Drag: 5-17=-10, 9-15=-10  
Concentrated Loads (lb)  
Vert: 17=-1533(B) 15=-1100(F)
- 37) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=1, 2-6=5, 6-7=5, 7-8=18, 8-9=12, 9-12=18, 17-19=-12, 15-17=-18, 13-15=-12, 5-8=-6  
Horz: 1-2=-13, 2-6=-17, 7-12=30, 2-19=-15, 12-13=-10  
Drag: 5-17=-10, 9-15=-10  
Concentrated Loads (lb)  
Vert: 17=-1533(B) 15=-1100(F)
- 38) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=14, 2-6=18, 6-7=5, 7-8=5, 8-9=-1, 9-12=5, 17-19=-12, 15-17=-18, 13-15=-12, 5-8=-6  
Horz: 1-2=-26, 2-6=-30, 7-12=17, 2-19=10, 12-13=15  
Drag: 5-17=-10, 9-15=-10  
Concentrated Loads (lb)  
Vert: 17=-1533(B) 15=-1100(F)
- 39) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=1, 2-6=5, 6-7=5, 7-8=18, 8-9=12, 9-12=18, 17-19=-12, 15-17=-18, 13-15=-12, 5-8=-6  
Horz: 1-2=-13, 2-6=-17, 7-12=30, 2-19=-15, 12-13=-10  
Drag: 5-17=-10, 9-15=-10  
Concentrated Loads (lb)  
Vert: 17=-1533(B) 15=-1100(F)
- 40) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=6, 2-6=2, 6-7=-12, 7-8=-12, 8-9=-22, 9-12=-12, 17-19=-20, 15-17=-30, 13-15=-20, 5-8=-10  
Horz: 1-2=-26, 2-6=-22, 7-12=8, 2-19=19, 12-13=6  
Drag: 5-17=-10, 9-15=-10  
Concentrated Loads (lb)  
Vert: 17=-1525(B) 15=-1100(F)
- 41) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-7, 2-6=-12, 6-7=-12, 7-8=2, 8-9=-8, 9-12=2, 17-19=-20, 15-17=-30, 13-15=-20, 5-8=-10  
Horz: 1-2=-13, 2-6=-8, 7-12=22, 2-19=-6, 12-13=-19  
Drag: 5-17=-10, 9-15=-10  
Concentrated Loads (lb)  
Vert: 17=-1525(B) 15=-1100(F)
- 42) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left):  
Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-55, 2-6=-58, 6-7=-34, 7-8=-44, 8-9=-54, 9-12=-44, 19-22=-20, 17-22=-50, 16-17=-90, 15-16=-90, 13-15=-20,  
5-8=-10  
Horz: 1-2=5, 2-6=8, 7-12=6, 2-19=16, 12-13=5  
Drag: 5-17=-10, 9-15=-10  
Concentrated Loads (lb)  
Vert: 17=-2066(B) 15=-1100(F)
- 43) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right):  
Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-40, 2-6=-44, 6-7=-34, 7-8=-58, 8-9=-68, 9-12=-58, 19-22=-20, 17-22=-50, 16-17=-90, 15-16=-90, 13-15=-20,  
5-8=-10  
Horz: 1-2=-10, 2-6=-6, 7-12=-8, 2-19=-5, 12-13=-16  
Drag: 5-17=-10, 9-15=-10  
Concentrated Loads (lb)  
Vert: 17=-2066(B) 15=-1100(F)
- 44) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Continued on page 6

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**  
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road  
Edenton, NC 27932

Job 30136-30136A	Truss A4G	Truss Type ROOF TRUSS	Qty 1	Ply <b>2</b>	26 PRINCE PLACE - ROOF Job Reference (optional)	I49963394
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:02:07 2022 Page 6  
ID:BLJh1112d3wvZK\_wUdDgFCyrbmE-hJErVgYn4mSbeQBJYixE9milvZKEIFpiewyoE3zqnyk

**LOAD CASE(S)** Standard

Uniform Loads (plf)

Vert: 1-2=-31, 2-6=-34, 6-7=-44, 7-8=-44, 8-9=-54, 9-12=-44, 19-22=-20, 17-22=-50, 16-17=-90, 15-16=-90, 13-15=-20, 5-8=-10  
Horz: 1-2=-19, 2-6=-16, 7-12=6, 2-19=14, 12-13=5  
Drag: 5-17=-10, 9-15=-10

Concentrated Loads (lb)

Vert: 17=-2066(B) 15=-1100(F)

45) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-40, 2-6=-44, 6-7=-44, 7-8=-34, 8-9=-44, 9-12=-34, 19-22=-20, 17-22=-50, 16-17=-90, 15-16=-90, 13-15=-20, 5-8=-10  
Horz: 1-2=-10, 2-6=-6, 7-12=16, 2-19=-5, 12-13=14  
Drag: 5-17=-10, 9-15=-10

Concentrated Loads (lb)

Vert: 17=-2066(B) 15=-1100(F)

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

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818 Soundside Road  
Edenton, NC 27932

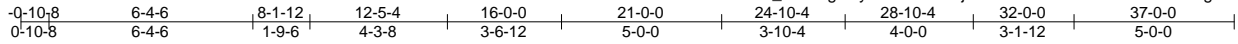


Job 30136-30136A	Truss A5	Truss Type ROOF TRUSS	Qty 1	Ply 1	26 PRINCE PLACE - ROOF	149963395
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:02:08 2022 Page 1

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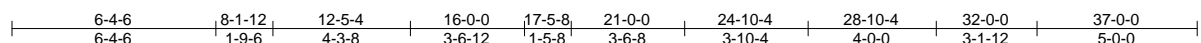
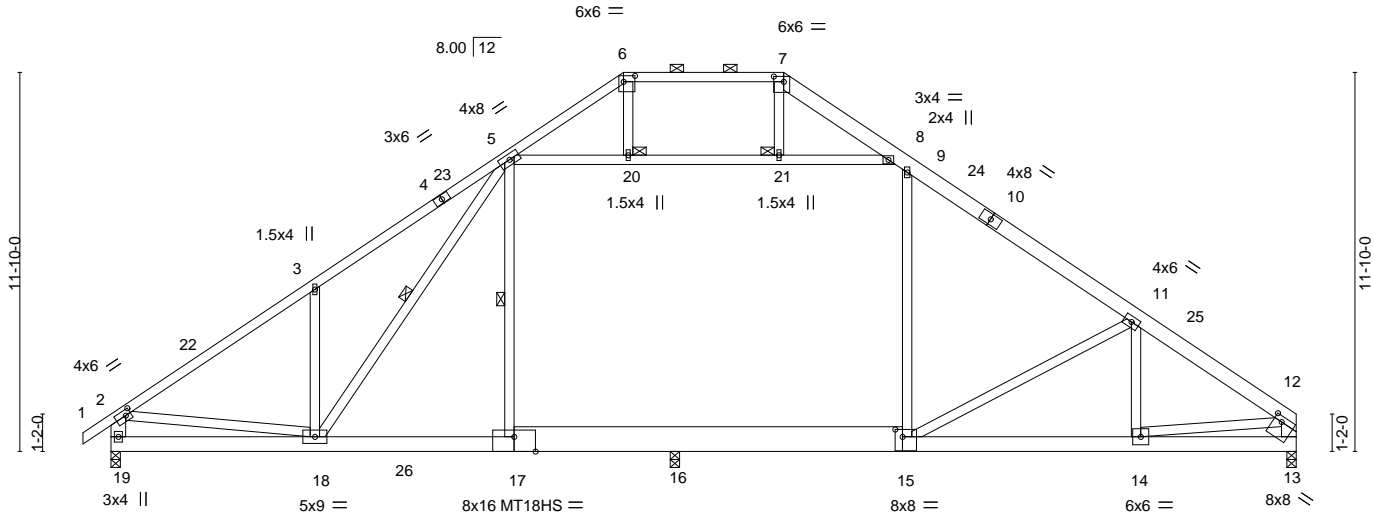


Plate Offsets (X, Y)--	[2:0-2-0,0-2-0], [6:0-4-4,0-2-4], [7:0-3-12,0-2-0], [13:0-3-0,0-2-0], [15:0-2-12,0-2-12], [17:0-8-0,Edge]
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<b>LOADING</b> (psf)	<b>SPACING-</b>	2-5-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.68	Vert(LL)	-0.40 14-15	>569	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.86	Vert(CT)	-0.58 14-15	>400	180	MT18HS	197/144
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.72	Horz(CT)	0.03 13	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Attic	-0.30 16-17	401	360		
								Weight: 296 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except* 7-10,10-12: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-5-2 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD 2x6 SP DSS *Except* 15-17: 2x10 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 5-17,9-15,5-8: 2x4 SP No.2 or 2x4 SPF No.2, 2-19,12-13: 2x6 SP No.2	WEBS 1 Row at midpt 5-18, 5-17 JOINTS 1 Brace at Jt(s): 20, 21

<b>REACTIONS.</b>	(size) 19=0-3-8, 13=0-3-8, 16=0-3-8 Max Horz 19=288(LC 9) Max Grav 19=1782(LC 1), 13=1789(LC 21), 16=1267(LC 20)
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<b>FORCES.</b>	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-2274/0, 3-5=-2264/91, 5-6=-741/98, 6-7=-539/97, 7-8=-739/95, 8-9=-1617/70, 9-11=-2089/0, 11-12=-2465/0, 2-19=-1674/27, 12-13=-1752/0
BOT CHORD	18-19=-200/566, 17-18=0/1625, 16-17=0/1645, 15-16=0/1643, 14-15=0/1976, 13-14=-13/277
WEBS	3-18=-451/251, 5-18=-365/674, 5-17=-319/619, 9-15=0/485, 11-15=-577/243, 2-18=0/1449, 12-14=0/1757, 5-20=-1255/56, 20-21=-1244/56, 8-21=-1248/53

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-9-14, Interior(1) 2-9-14 to 16-0-0, Exterior(2) 16-0-0 to 26-2-13, Interior(1) 26-2-13 to 36-9-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) All plates are MT20 plates unless otherwise indicated.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 7) Ceiling dead load (5.0 psf) on member(s). 8-9, 5-20, 20-21, 8-21; Wall dead load (5.0psf) on member(s).5-17, 9-15
  - 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 16-17, 15-16
  - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - 10) Attic room checked for L/360 deflection.



January 31, 2022

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**ENGINEERING BY**  
**TRENCO**  
A MiTek Affiliate

818 Soundside Road  
Edenton, NC 27932

Job 30136-30136A	Truss A6	Truss Type ROOF TRUSS	Qty 2	Ply 1	26 PRINCE PLACE - ROOF	149963396
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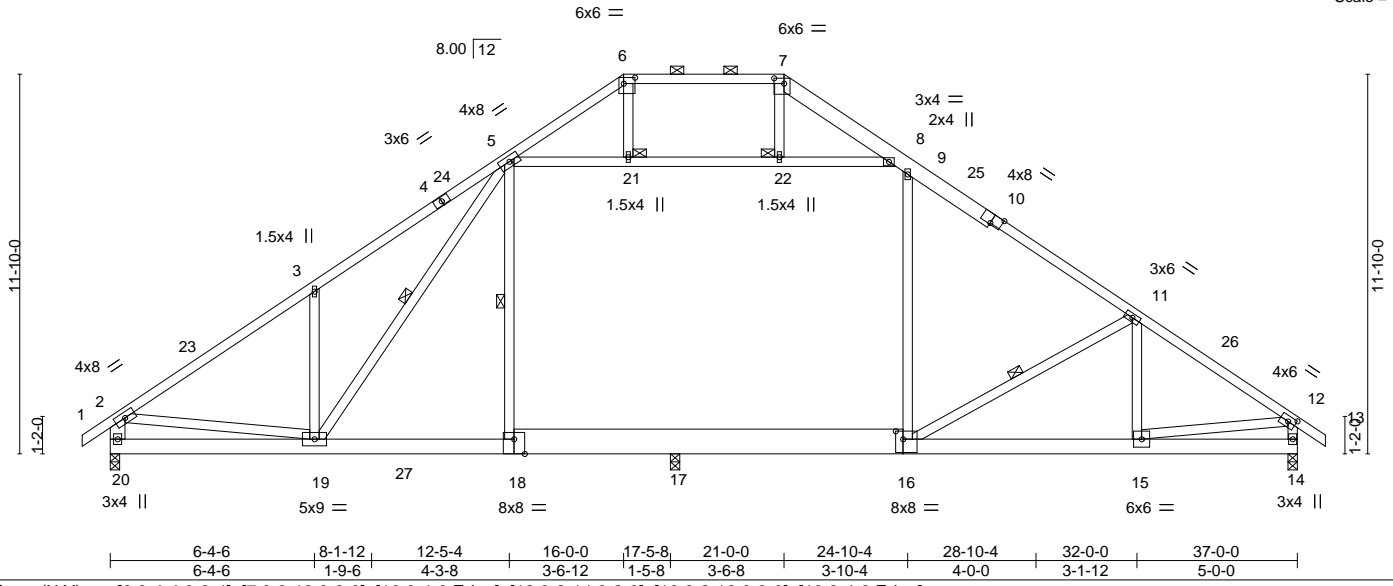
84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:02:10 2022 Page 1

ID:BLJh1112d3wvZK\_wUdDgFCyrbmE-6uw\_BiagNhqAVtwuDtVxmOKh\_mP9Vc89KuASqQzqnyh

0-10-8 6-4-6 8-1-12 12-5-4 16-0-0 21-0-0 24-10-4 28-10-4 31-10-4 32-0-0 37-0-0 37-10-8  
 0-10-8 6-4-6 1-9-6 4-3-8 3-6-12 5-0-0 3-10-4 4-0-0 3-0-0 0-1-12 5-0-0 0-10-8

Scale = 1:71.8



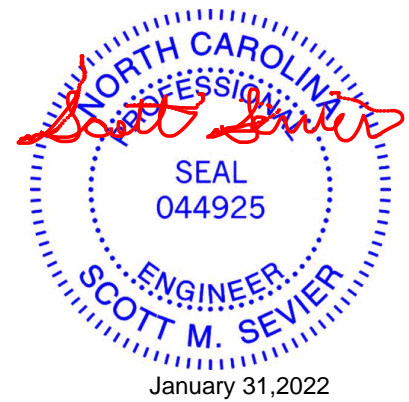
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.94	Vert(LL)	-0.36	15-16	>637	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.73	Vert(CT)	-0.52	15-16	>444		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.60	Horz(CT)	0.02	14	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Attic	-0.26	17-18	463	Weight: 288 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except* 7-10: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD 2x6 SP DSS *Except* 16-18: 2x10 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 5-18,9-16,12-14,5-8: 2x4 SP No.2 or 2x4 SPF No.2, 2-20: 2x6 SP No.2	WEBS 1 Row at midpt 5-19, 5-18, 11-16
	JOINTS 1 Brace at Jt(s): 21, 22

**REACTIONS.** (size) 20=0-3-8, 14=0-3-8, 17=0-3-8  
 Max Horz 20=244(LC 10)  
 Max Grav 20=1472(LC 1), 14=1537(LC 21), 17=1063(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1875/0, 3-5=-1864/78, 5-6=-596/73, 6-7=-430/73, 7-8=-602/76, 8-9=-1341/64,  
 9-11=-1713/0, 11-12=-2009/0, 2-20=-1380/25, 12-14=-1514/10  
 BOT CHORD 19-20=-158/475, 18-19=0/1345, 17-18=0/1362, 16-17=0/1360, 15-16=0/1598  
 WEBS 3-19=-372/208, 5-19=-302/561, 5-18=-273/528, 9-16=0/380, 11-16=-432/188,  
 2-19=0/1191, 12-15=0/1490, 5-21=-1067/72, 21-22=-1058/72, 8-22=-1062/70

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-10-8 to 2-9-14, Interior(1) 2-9-14 to 16-0-0, Exterior(2) 16-0-0 to 26-2-13, Interior(1) 26-2-13 to 37-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Ceiling dead load (5.0 psf) on member(s). 8-9, 5-21, 21-22, 8-22; Wall dead load (5.0psf) on member(s).5-18, 9-16
  - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 17-18, 16-17
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - Attic room checked for L/360 deflection.



Job 30136-30136A	Truss A6A	Truss Type ROOF TRUSS	Qty 1	Ply 1	26 PRINCE PLACE - ROOF	149963397
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:02:11 2022 Page 1

ID:BLJh1112d3wvZK\_wUdDgFCyrbmE-a5UML1b18\_y171U4nb0AJctwoAjME1hYYw0Nqzqnyg

0-10-8	6-4-6	8-1-12	12-5-4	16-0-0	21-0-0	24-10-4	28-10-4	31-10-4	32-0-0	37-0-0	37-10-8
0-10-8	6-4-6	1-9-6	4-3-8	3-6-12	5-0-0	3-10-4	4-0-0	3-0-0	0-1-12	5-0-0	0-10-8

Scale = 1:71.8

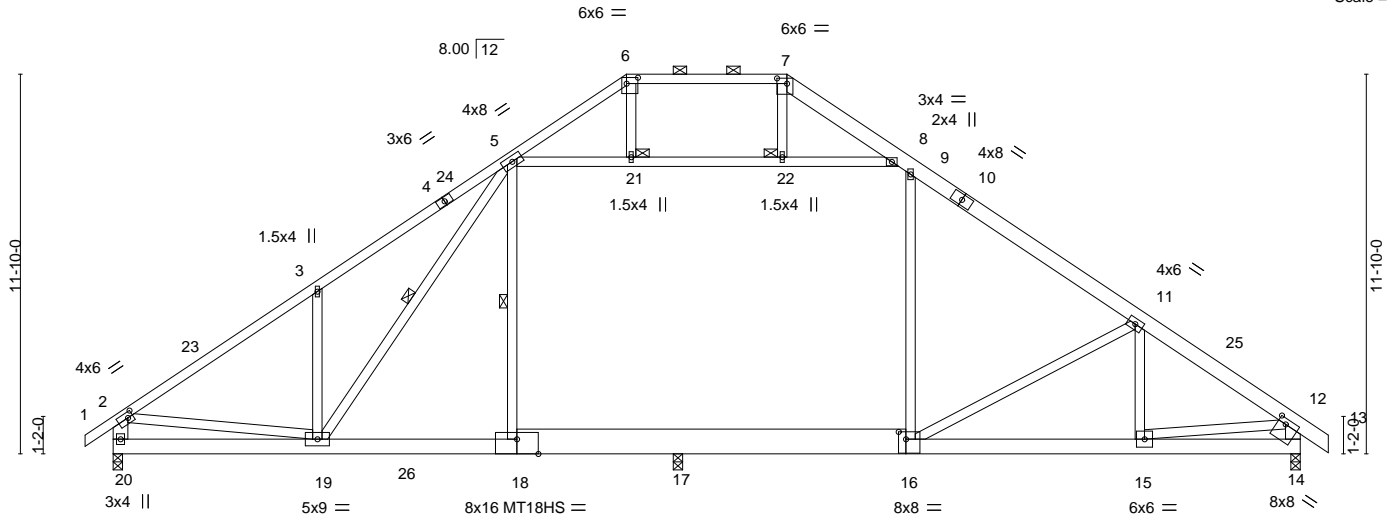


Plate Offsets (X, Y)--	[2:0-2-0,0-2-0], [6:0-4-4,0-2-4], [7:0-3-12,0-2-0], [14:0-3-0,0-2-0], [16:0-2-12,0-2-12], [18:0-8-0,Edge]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-5-0	TC 0.68	Vert(LL)	-0.40	15-16	>571	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.86	Vert(CT)	-0.57	15-16	>402	MT18HS	197/144
BCLL 0.0 *	Lumber DOL 1.15	WB 0.71	Horz(CT)	0.03	14	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Attic	-0.30	17-18	401		
	Code IRC2015/TP12014					360	Weight: 299 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except* 7-10,10-13: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-5-3 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD 2x6 SP DSS *Except* 16-18: 2x10 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 5-18,9-16,5-8: 2x4 SP No.2 or 2x4 SPF No.2, 2-20,12-14: 2x6 SP No.2	WEBS 1 Row at midpt 5-19, 5-18
	JOINTS 1 Brace at Jt(s): 21, 22

**REACTIONS.** (size) 20=0-3-8, 14=0-3-8, 17=0-3-8  
 Max Horz 20=295(LC 10)  
 Max Grav 20=1781(LC 1), 14=1864(LC 21), 17=1268(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-2273/0, 3-5=-2262/93, 5-6=-740/98, 6-7=-538/97, 7-8=-739/95, 8-9=-1616/72, 9-11=-2085/0, 11-12=-2460/0, 2-20=-1673/29, 12-14=-1827/8  
 BOT CHORD 19-20=-193/574, 18-19=0/1623, 17-18=0/1643, 16-17=0/1641, 15-16=0/1960, 14-15=0/319  
 WEBS 3-19=-451/251, 5-19=-364/674, 5-18=-319/618, 9-16=0/483, 11-16=-565/242, 2-19=0/1449, 12-15=0/1711, 5-21=-1254/58, 21-22=-1244/58, 8-22=-1247/55

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-10-8 to 2-9-14, Interior(1) 2-9-14 to 16-0-0, Exterior(2) 16-0-0 to 26-2-13, Interior(1) 26-2-13 to 37-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) All plates are MT20 plates unless otherwise indicated.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 7) Ceiling dead load (5.0 psf) on member(s). 8-9, 5-21, 21-22, 8-22; Wall dead load (5.0psf) on member(s).5-18, 9-16
  - 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 17-18, 16-17
  - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - 10) Attic room checked for L/360 deflection.



Job	Truss	Truss Type	Qty	Ply	26 PRINCE PLACE - ROOF	149963398
30136-30136A	A7E	ROOF TRUSS	1	1	Job Reference (optional)	

84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:02:13 2022 Page 1

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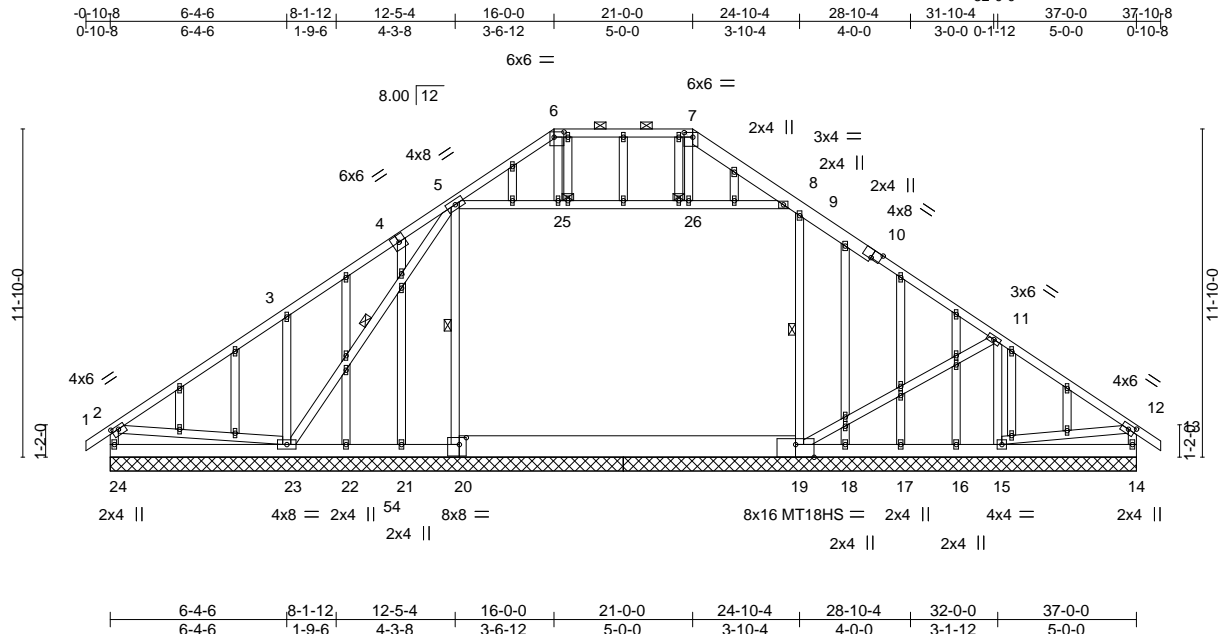


Plate Offsets (X,Y)--	[2:0-3-0,0-1-8], [6:0-4-4,0-2-4], [7:0-3-12,0-2-0], [10:0-4-0,Edge], [12:0-2-14,0-2-0], [19:0-8-0,Edge], [20:0-3-0,0-3-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.51	Vert(LL)	-0.11 19-20	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.67	Vert(CT)	-0.15 19-20	>957	180	MT18HS	244/190
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.20	Horz(CT)	0.00 14	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Attic	-0.11 19-20	1314	360		Weight: 362 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except* 7-10: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD 2x6 SP DSS *Except* 19-20: 2x10 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 12-14: 2x4 SP No.2 or 2x4 SPF No.2	WEBS 1 Row at midpt 5-23, 5-20, 9-19
OTHERS 2x4 SP No.3	JOINTS 1 Brace at Jt(s): 25, 26

**REACTIONS.** All bearings 18-6-0.  
 (lb) - Max Horz 24=-243(LC 6)  
 Max Uplift All uplift 100 lb or less at joint(s) 15, 16 except 23=-107(LC 8), 21=-619(LC 14), 18=-867(LC 14)  
 Max Grav All reactions 250 lb or less at joint(s) 22 except 24=350(LC 1), 20=1528(LC 14), 23=701(LC 1), 19=1774(LC 17), 14=363(LC 1), 15=496(LC 1), 17=264(LC 14)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 5-6=-536/37, 6-7=-385/37, 7-8=-555/46, 8-9=-425/85, 9-11=-369/87, 11-12=-278/33, 2-24=-292/12, 12-14=-318/19  
 BOT CHORD 23-24=-229/351, 22-23=-56/259, 21-22=-56/259, 20-21=-56/259, 19-20=-55/254  
 WEBS 3-23=-395/203, 5-20=-439/98, 9-19=-636/111, 11-15=-415/65

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) All plates are MT20 plates unless otherwise indicated.
  - 5) All plates are 1.5x4 MT20 unless otherwise indicated.
  - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 8) Ceiling dead load (5.0 psf) on member(s). 8-9, 5-25, 25-26, 8-26; Wall dead load (5.0psf) on member(s).5-20, 9-19
  - 9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 19-20
  - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 16 except (jt=lb) 23=107, 21=619, 18=867.
  - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - 12) Attic room checked for L/360 deflection.



January 31, 2022

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**  
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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



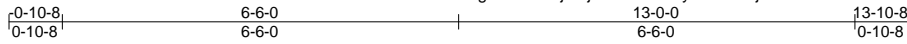
Job 30136-30136A	Truss C1E	Truss Type GABLE	Qty 1	Ply 1	26 PRINCE PLACE - ROOF 149963400
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84 Components (Dunn),

Dunn, NC - 28334,

8,530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:02:15 2022 Page 1

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3x4 =

Scale = 1:37.8

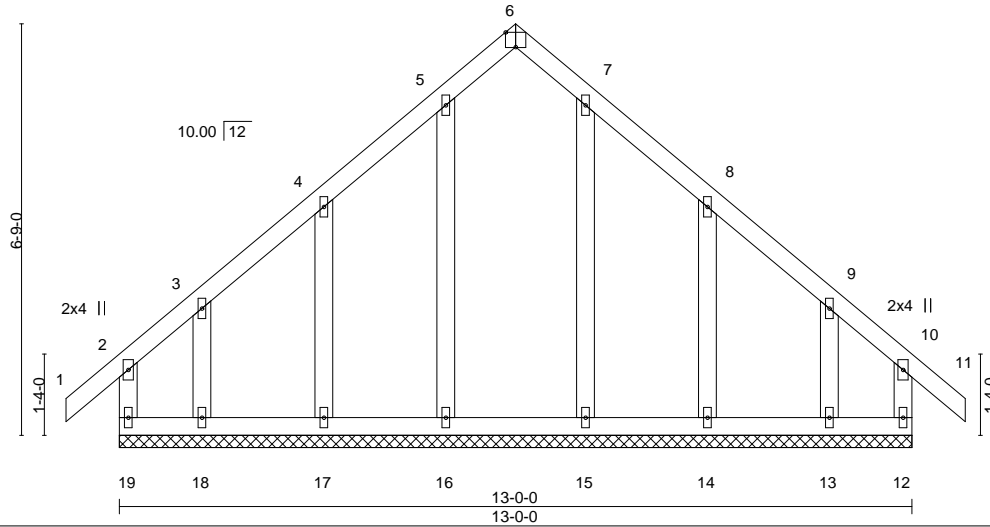


Plate Offsets (X, Y)--	[6:0-2-0,Edge]								
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.14	Vert(LL)	-0.00	11	n/r	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	-0.00	11	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	12	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R						
								Weight: 83 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2  
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2  
 WEBS 2x4 SP No.3  
 OTHERS 2x4 SP No.3

**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 13-0-0.  
 (lb) - Max Horz 19=151(LC 10)  
 Max Uplift All uplift 100 lb or less at joint(s) 19, 12, 17, 14 except 18=127(LC 12), 13=124(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 19, 12, 16, 17, 18, 15, 14, 13

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

**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 2-1-8, Exterior(2) 2-1-8 to 6-6-0, Corner(3) 6-6-0 to 9-7-12, Exterior(2) 9-7-12 to 13-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 1.5x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 12, 17, 14 except (jt=lb) 18=127, 13=124.



January 31, 2022

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road  
 Edenton, NC 27932

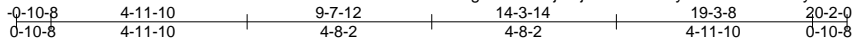
Job 30136-30136A	Truss C2	Truss Type Common Structural Gable	Qty 1	Ply 1	26 PRINCE PLACE - ROOF	149963401
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84 Components (Dunn),

Dunn, NC - 28334,

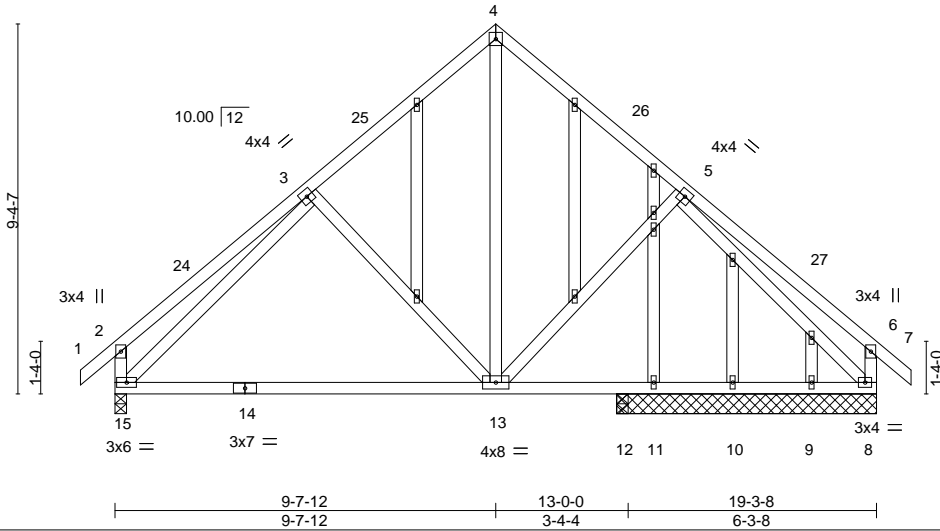
8,530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:02:16 2022 Page 1

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4x4 =

Scale = 1:58.4



<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 20.0	Plate Grip DOL	1.15	TC 0.53	Vert(LL)	-0.20 13-15	>757	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.74	Vert(CT)	-0.41 13-15	>372	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.58	Horz(CT)	0.02 8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS					Weight: 155 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2  
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2  
 WEBS 2x4 SP No.3  
 OTHERS 2x4 SP No.3

**BRACING-**

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

**REACTIONS.**

All bearings 6-7-0 except (jt=length) 15=0-3-8, 12=0-3-8.  
 (lb) - Max Horz 15=201(LC 11)  
 Max Uplift All uplift 100 lb or less at joint(s) 15, 8 except 12=118(LC 3)  
 Max Grav All reactions 250 lb or less at joint(s) 11, 10, 9 except 15=804(LC 1), 8=748(LC 1)

**FORCES.**

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-293/88, 3-4=-621/113, 4-5=-621/113, 2-15=-322/106, 6-8=-268/136  
 BOT CHORD 13-15=-55/563, 12-13=0/506, 11-12=0/506, 10-11=0/506, 9-10=0/506, 8-9=0/506  
 WEBS 4-13=-57/450, 3-15=-549/28, 5-8=-629/0

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 9-7-12, Exterior(2) 9-7-12 to 12-7-12, Interior(1) 12-7-12 to 20-2-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 8 except (jt=lb) 12=118.



January 31, 2022

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

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**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road  
Edenton, NC 27932

Job 30136-30136A	Truss C3G	Truss Type FAN	Qty 1	Ply 2	26 PRINCE PLACE - ROOF Job Reference (optional)	149963402
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84 Components (Dunn), Dunn, NC - 28334,

8,530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:02:18 2022 Page 1

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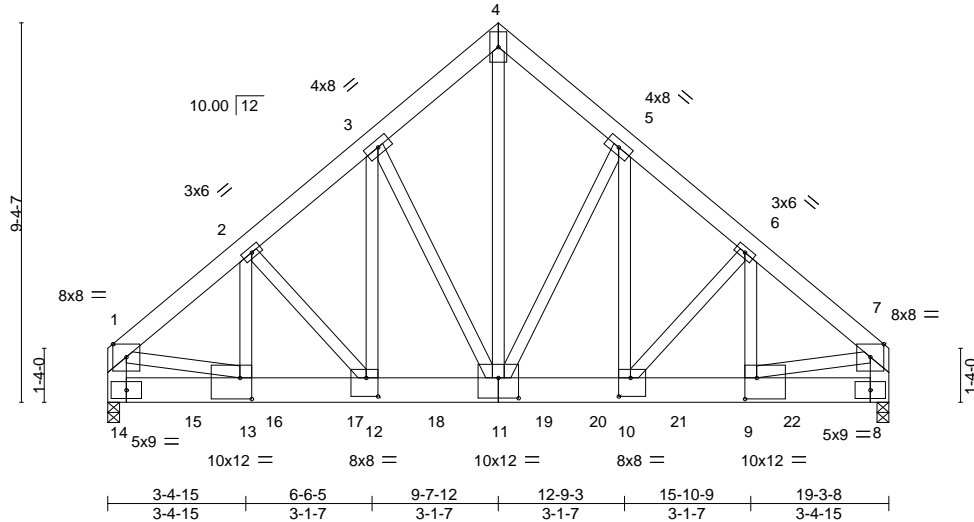


Plate Offsets (X, Y)-- [9:0-3-8,0-6-4], [10:0-3-8,0-5-8], [11:0-6-0,0-6-0], [12:0-3-8,0-5-8], [13:0-3-8,0-6-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.52	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.99	Vert(LL) -0.08 12 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.76	Vert(CT) -0.15 11-12 >999 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.04 8 n/a n/a		
	Code IRC2015/TPI2014			Weight: 401 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x6 SP No.2  
 BOT CHORD 2x8 SP No.2  
 WEBS 2x4 SP No.3 \*Except\*  
 4-11: 2x4 SP No.1, 1-13,7-9: 2x4 SP No.2 or 2x4 SPF No.2  
 OTHERS 2x6 SP No.2

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 4-11-11 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 14=0-3-8, 8=0-3-8  
 Max Horz 14=-178(LC 23)  
 Max Grav 14=8878(LC 2), 8=8530(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-9393/0, 2-3=-8543/0, 3-4=-6888/0, 4-5=-6887/0, 5-6=-8511/0, 6-7=-9145/0,  
 1-14=-7874/0, 7-8=-7671/0  
 BOT CHORD 13-14=0/1158, 12-13=0/7105, 11-12=0/6524, 10-11=0/6497, 9-10=0/6918, 8-9=0/1111  
 WEBS 4-11=0/8370, 5-11=-2563/0, 5-10=0/3304, 6-10=-654/0, 6-9=0/835, 3-11=-2623/0,  
 3-12=0/3373, 2-12=-899/0, 2-13=0/1164, 1-13=0/6193, 7-9=0/6046

**NOTES-**

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
 Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-4-0 oc.  
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 14, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1922 lb down at 2-0-12, 1922 lb down at 4-0-12, 1922 lb down at 6-0-12, 1922 lb down at 8-0-12, 1922 lb down at 10-0-12, 1922 lb down at 12-0-12, and 2280 lb down at 14-0-12, and 2280 lb down at 16-10-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard



January 31, 2022

Continued on page 2

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**  
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road  
 Edenton, NC 27932



Job 30136-30136A	Truss C3G	Truss Type FAN	Qty 1	Ply <b>2</b>	26 PRINCE PLACE - ROOF I49963402 Job Reference (optional)
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:02:18 2022 Page 2  
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**LOAD CASE(S)** Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-60, 4-7=-60, 8-14=-20

Concentrated Loads (lb)

Vert: 15=-1647(F) 16=-1647(F) 17=-1647(F) 18=-1647(F) 19=-1647(F) 20=-1647(F) 21=-1952(F) 22=-1952(F)

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

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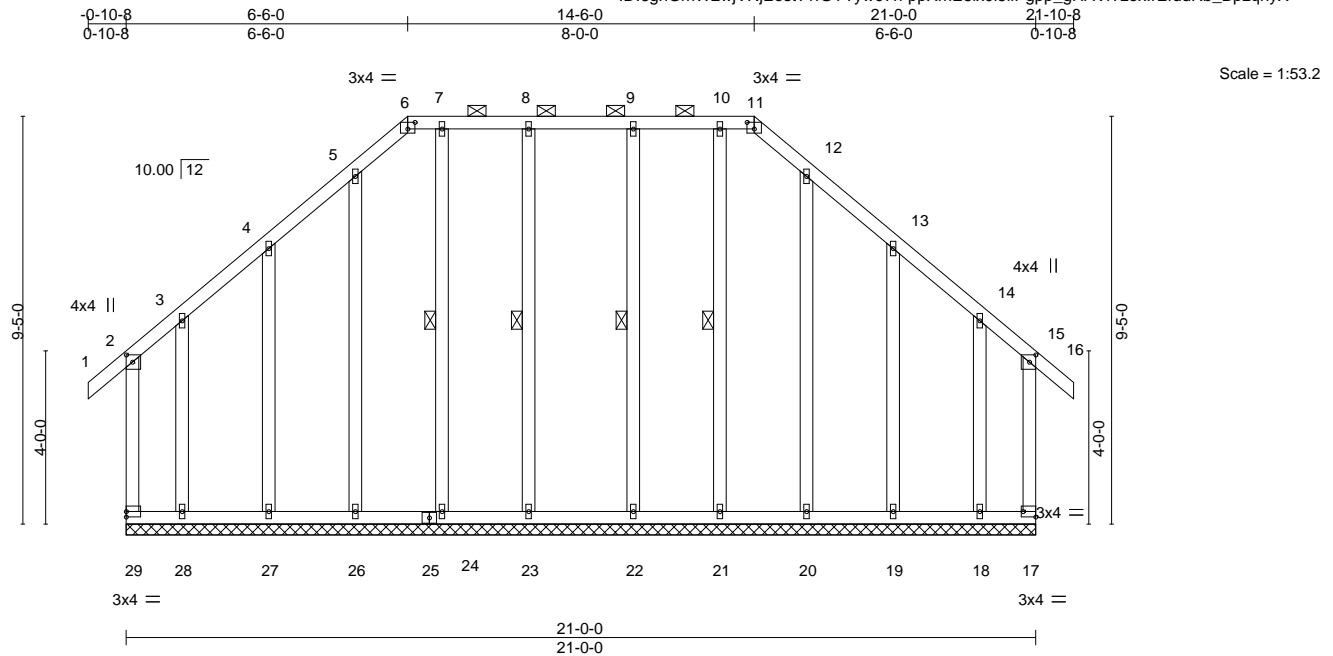
Job 30136-30136A	Truss D1E	Truss Type GABLE	Qty 1	Ply 1	26 PRINCE PLACE - ROOF Job Reference (optional)	149963403
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84 Components (Dunn),

Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:02:20 2022 Page 1

ID:6ghGmW2wjVRjEest?1fGYTyw97h-ppXmE6ix0I5liPgpp\_gHAVITzoxlrEfdRb\_BpzqnyX



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.65	Vert(LL)	-0.00	16	n/r	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.29	Vert(CT)	-0.00	16	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.15	Horz(CT)	-0.00	17	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R						
								Weight: 191 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2  
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2  
 WEBS 2x4 SP No.3  
 OTHERS 2x4 SP No.3

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 6-11.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
 WEBS 1 Row at midpt 8-23, 7-24, 9-22, 10-21

**REACTIONS.** All bearings 21-0-0.  
 (lb) - Max Horz 29=227(LC 10)  
 Max Uplift All uplift 100 lb or less at joint(s) 23, 26, 27, 22, 19 except 29=348(LC 8), 17=343(LC 9), 28=348(LC 9), 18=344(LC 8)  
 Max Grav All reactions 250 lb or less at joint(s) 23, 24, 26, 27, 22, 21, 20, 19 except 29=400(LC 11), 17=395(LC 10), 28=455(LC 10), 18=451(LC 11)

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

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 2-1-8, Exterior(2) 2-1-8 to 6-6-0, Corner(3) 6-6-0 to 9-3-8, Exterior(2) 9-3-8 to 14-6-0, Corner(3) 14-6-0 to 17-8-8, Exterior(2) 17-8-8 to 21-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Provide adequate drainage to prevent water ponding.
- All plates are 1.5x4 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 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 23, 26, 27, 22, 19 except (jt=lb) 29=348, 17=343, 28=348, 18=344.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



January 31, 2022

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**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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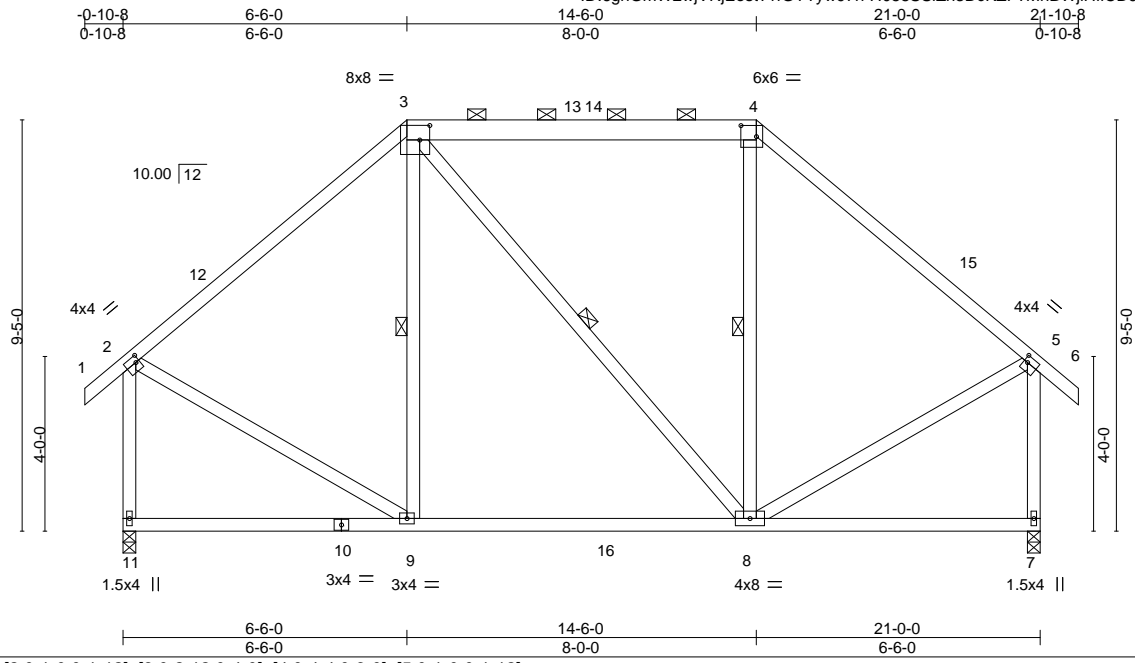
Job 30136-30136A	Truss D2	Truss Type Common	Qty 2	Ply 1	26 PRINCE PLACE - ROOF	149963404
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84 Components (Dunn),

Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:02:21 2022 Page 1

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Scale = 1:52.8

Plate Offsets (X,Y)--	[2:0-1-0,0-1-12], [3:0-2-12,0-4-0], [4:0-4-4,0-3-0], [5:0-1-0,0-1-12]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.58	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.51	Vert(LL) -0.13 8-9 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.19	Vert(CT) -0.19 8-9 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.01 7 n/a n/a		
	Code IRC2015/TPI2014			Weight: 154 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except* 3-4: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 3-9, 3-8, 4-8

**REACTIONS.** (size) 11=0-3-8, 7=0-3-8  
 Max Horz 11=226(LC 11)  
 Max Grav 11=890(LC 1), 7=890(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-678/109, 3-4=-426/137, 4-5=-678/108, 2-11=-834/110, 5-7=-834/110  
 BOT CHORD 8-9=-90/484  
 WEBS 2-9=-27/471, 5-8=-28/450

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-6-0, Exterior(2) 6-6-0 to 10-8-15, Interior(1) 10-8-15 to 14-6-0, Exterior(2) 14-6-0 to 18-8-15, Interior(1) 18-8-15 to 21-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



January 31, 2022

Job 30136-30136A	Truss D3	Truss Type Common	Qty 1	Ply 1	26 PRINCE PLACE - ROOF Job Reference (optional)	149963405
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84 Components (Dunn), Dunn, NC - 28334,

8,530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:02:22 2022 Page 1

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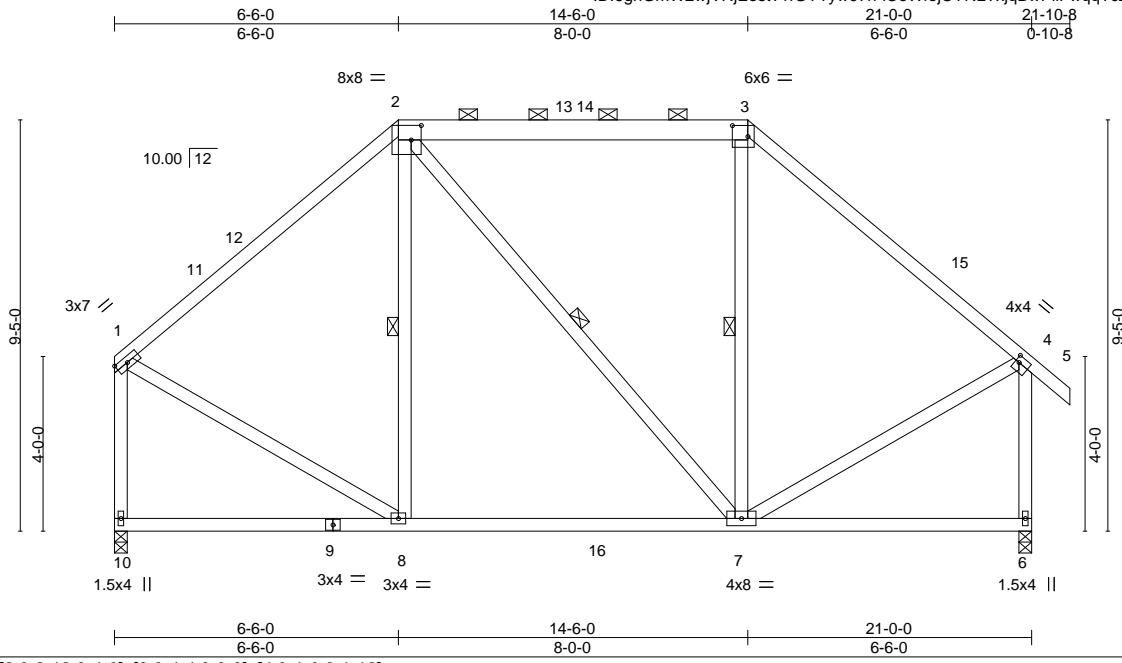


Plate Offsets (X,Y)--	[2:0-2-12,0-4-0], [3:0-4-4,0-3-0], [4:0-1-0,0-1-12]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.59	Vert(LL)	-0.13	7-8	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.51	Vert(CT)	-0.19	7-8	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.20	Horz(CT)	0.01	6	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 152 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except* 2-3: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-8-1 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-3.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 2-8, 2-7, 3-7

**REACTIONS.** (size) 10=0-3-8, 6=0-3-8  
 Max Horz 10=-221(LC 10)  
 Max Grav 10=827(LC 1), 6=891(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-676/101, 2-3=-427/134, 3-4=-679/105, 1-10=-771/86, 4-6=-835/108  
 BOT CHORD 7-8=-88/487  
 WEBS 1-8=-28/481, 4-7=-26/451

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 6-6-0, Exterior(2) 6-6-0 to 10-8-15, Interior(1) 10-8-15 to 14-6-0, Exterior(2) 14-6-0 to 18-8-15, Interior(1) 18-8-15 to 21-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



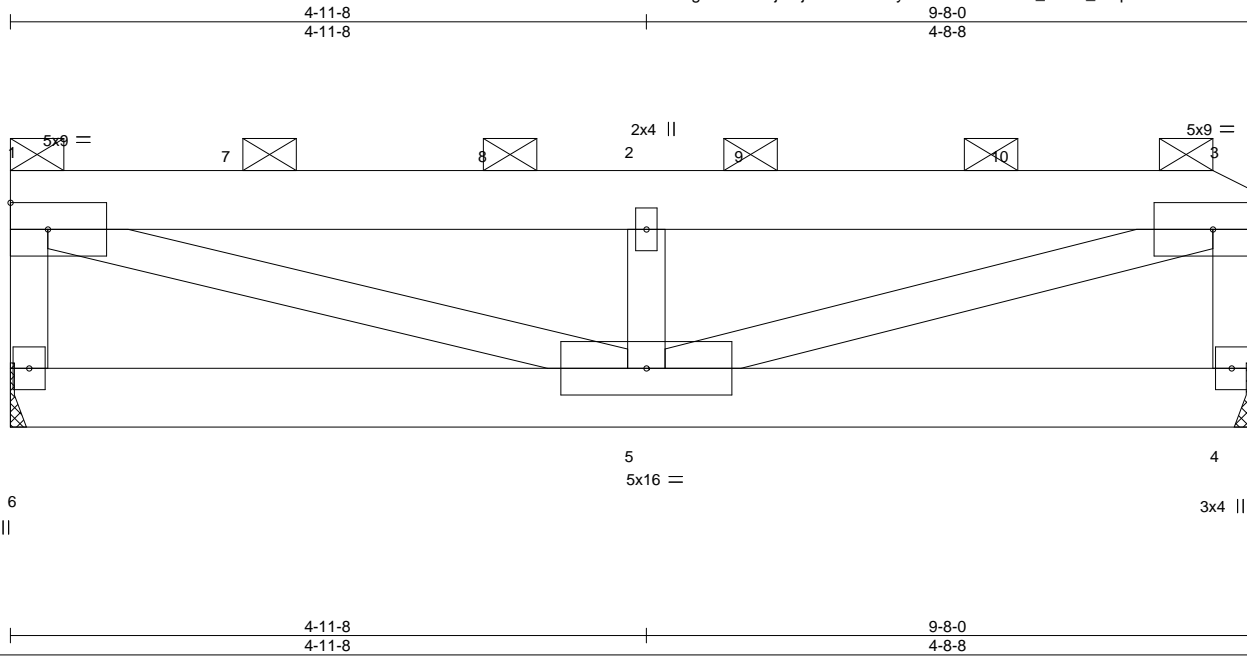
January 31, 2022



Job 30136-30136A	Truss FT1	Truss Type FLAT GIRDER	Qty 1	Ply 2	26 PRINCE PLACE - ROOF Job Reference (optional)	149963407
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84 Components (Dunn), Dunn, NC - 28334,

8,530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:02:24 2022 Page 1  
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Scale = 1:18.0

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.79	Vert(LL)	-0.05	5	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.31	Vert(CT)	-0.09	5	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.85	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS					Weight: 127 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x6 SP No.2  
BOT CHORD 2x6 SP No.2  
WEBS 2x4 SP No.3

**BRACING-**  
TOP CHORD 2-0-0 oc purlins (5-11-5 max.): 1-3, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 6=Mechanical, 4=Mechanical  
Max Horz 6=44(LC 4)  
Max Uplift 6=183(LC 4), 4=182(LC 5)  
Max Grav 6=2312(LC 15), 4=2299(LC 15)

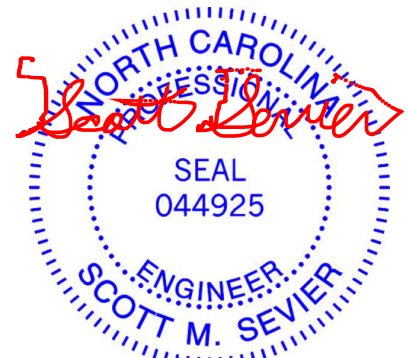
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-6=-2127/194, 1-2=-4294/331, 2-3=-4294/331, 3-4=-2112/191  
BOT CHORD 5-6=-59/382, 4-5=-35/328  
WEBS 1-5=-327/4116, 2-5=-2784/291, 3-5=-332/4195

**NOTES-**

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.  
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=183, 4=182.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1027 lb down and 75 lb up at 1-9-12, 1027 lb down and 75 lb up at 3-9-12, and 1027 lb down and 75 lb up at 5-9-12, and 1027 lb down and 75 lb up at 7-9-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-60, 4-6=-20



January 31, 2022

Continued on page 2

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Job 30136-30136A	Truss FT1	Truss Type FLAT GIRDER	Qty 1	Ply <b>2</b>	26 PRINCE PLACE - ROOF Job Reference (optional)	I49963407
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:02:24 2022 Page 2  
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**LOAD CASE(S)** Standard

Concentrated Loads (lb)

Vert: 7=-957 8=-957 9=-957 10=-957

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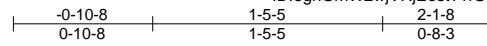


818 Soundside Road  
Edenton, NC 27932

Job 30136-30136A	Truss H1	Truss Type Half Hip	Qty 1	Ply 1	26 PRINCE PLACE - ROOF Job Reference (optional)	149963408
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84 Components (Dunn), Dunn, NC - 28334,

8,530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:02:25 2022 Page 1



ID:6ghGmW2wjVRjEest?1fGYTyw97h-AnKfHqm4rlj1oBZmbXGStYSSFpi3WXDMmjls0zqnyS

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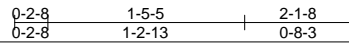
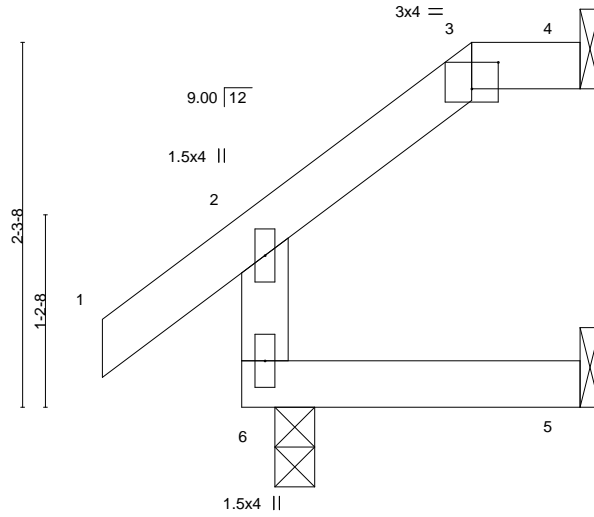


Plate Offsets (X,Y)--	[3:0-2-0,0-2-0]						
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL	1.15	TC 0.10	Vert(LL) 0.00	6	>999	240
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT) -0.00	5-6	>999	180
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT) -0.01	4	n/a	n/a
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MR				
							<b>PLATES</b> MT20
							<b>GRIP</b> 197/144
							Weight: 10 lb FT = 20%

<b>LUMBER-</b>		<b>BRACING-</b>	
TOP CHORD	2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 2-1-8 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD	2x4 SP No.2 or 2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		

**REACTIONS.** (size) 4=Mechanical, 6=0-3-0, 5=Mechanical  
 Max Horz 6=39(LC 9)  
 Max Uplift 4=-21(LC 12), 5=-1(LC 12)  
 Max Grav 4=43(LC 1), 6=154(LC 1), 5=36(LC 3)

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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) Refer to girder(s) for truss to truss connections.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.
  - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.







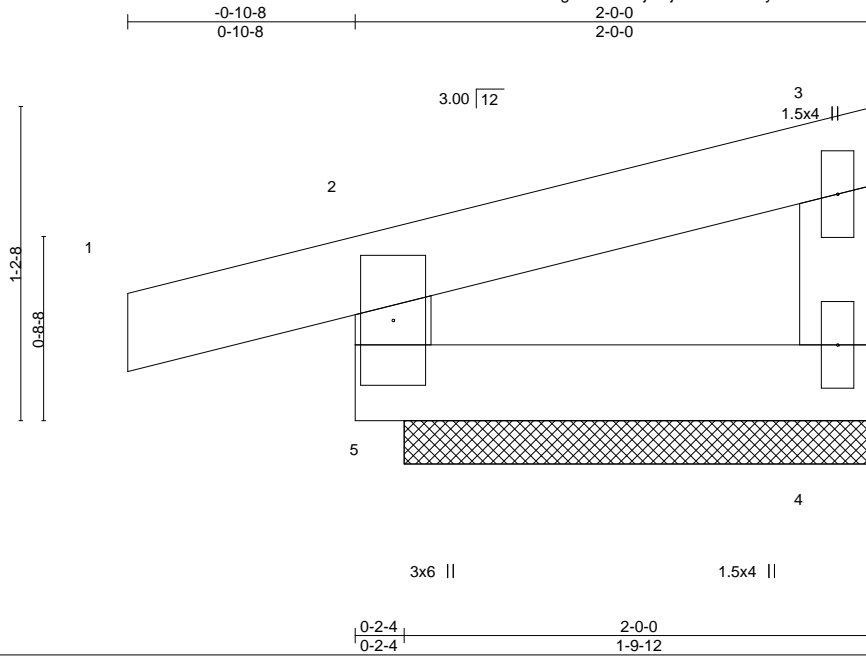


Job 30136-30136A	Truss J1E	Truss Type Jack-Open Supported Gable	Qty 1	Ply 1	26 PRINCE PLACE - ROOF Job Reference (optional)	149963411
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84 Components (Dunn), Dunn, NC - 28334,

8,530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:02:27 2022 Page 1

ID:6ghGmW2wjVRjEest?1fGYTyw97h-6ASPiWnKNvzI2Uj9jylwyZxOoDdO9\_RifE1osvxzqnyQ



Scale = 1:8.9

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.07	Vert(LL)	0.00	1	n/r	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	-0.00	1	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R					Weight: 9 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2  
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2  
 WEBS 2x4 SP No.3

**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) 5=1-9-12, 4=1-9-12  
 Max Horz 5=30(LC 9)  
 Max Uplift 5=-40(LC 8), 4=-3(LC 12)  
 Max Grav 5=148(LC 1), 4=50(LC 1)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 4.
- 8) Non Standard bearing condition. Review required.



January 31, 2022

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road  
 Edenton, NC 27932

Job 30136-30136A	Truss M1	Truss Type Monopitch	Qty 5	Ply 1	26 PRINCE PLACE - ROOF Job Reference (optional)	149963412
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:02:28 2022 Page 1  
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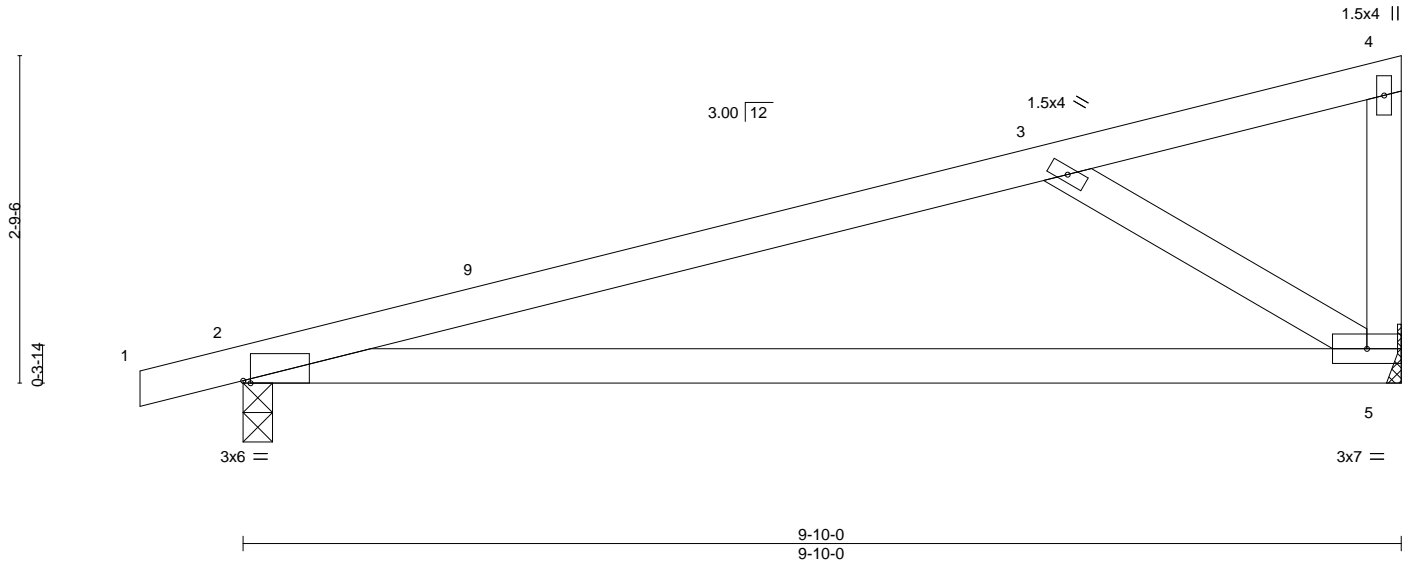


Plate Offsets (X, Y)-- [2:0-0-12, Edge]		CSI.		DEFL.				PLATES	GRIP
LOADING (psf)	SPACING-	2-0-0	TC	in	(loc)	l/defl	L/d	MT20	197/144
TCLL 20.0	Plate Grip DOL	1.15	BC	Vert(LL)	-0.20	5-8	>573		
TCDL 10.0	Lumber DOL	1.15	WB	Vert(CT)	-0.45	5-8	>258		
BCLL 0.0 *	Rep Stress Incr	YES	Matrix-MS	Horz(CT)	0.01	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014							Weight: 39 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2  
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2  
WEBS 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 5-10-6 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 2=0-3-0, 5=Mechanical  
Max Horz 2=81(LC 11)  
Max Uplift 2=-52(LC 8), 5=-34(LC 12)  
Max Grav 2=442(LC 1), 5=385(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-561/79  
BOT CHORD 2-5=-102/528  
WEBS 3-5=-573/123

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 9-8-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.



January 31, 2022

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818 Soundside Road  
Edenton, NC 27932

Job 30136-30136A	Truss M1E	Truss Type Monopitch Supported Gable	Qty 2	Ply 1	26 PRINCE PLACE - ROOF Job Reference (optional)	I49963413
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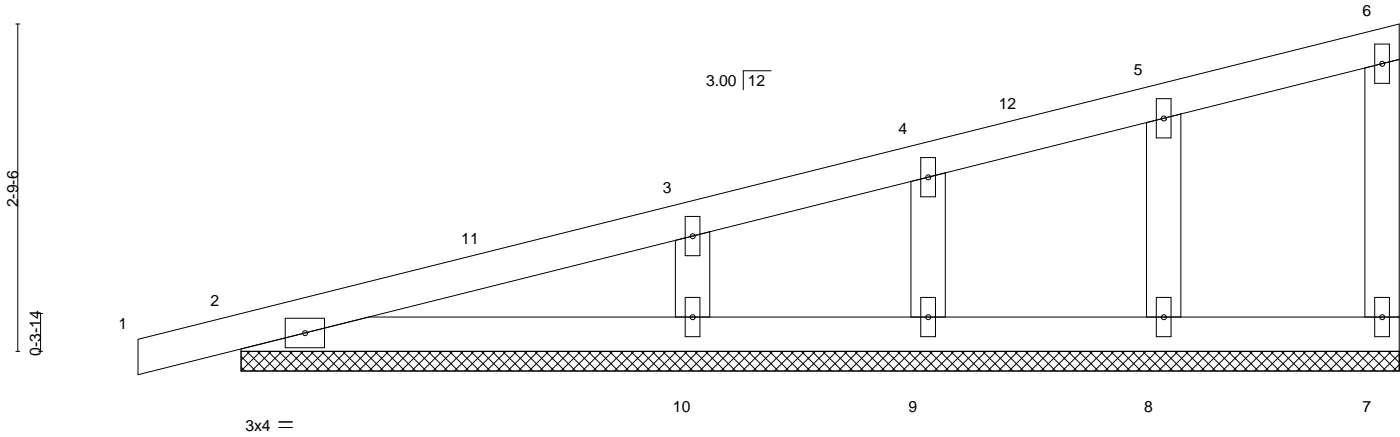
84 Components (Dunn), Dunn, NC - 28334,

8,530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:02:29 2022 Page 1

ID:6ghGmW2wjVRjEest?1fGYTyw97h-2YZ97BpbuWDTHotXqNKO2Od7SR2JSLYyhLHz?ozqnyO  
9-10-0  
9-10-0

-0-10-8  
0-10-8

Scale = 1:19.6



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.15	Vert(LL)	-0.00	1	n/r	120	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.11	Vert(CT)	0.00	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 40 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2  
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2  
WEBS 2x4 SP No.3  
OTHERS 2x4 SP No.3

**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 9-10-0.  
(lb) - Max Horz 2=81(LC 9)  
Max Uplift All uplift 100 lb or less at joint(s) 7, 2, 8, 9, 10  
Max Grav All reactions 250 lb or less at joint(s) 7, 2, 8, 9 except 10=301(LC 1)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 2-1-8, Exterior(2) 2-1-8 to 9-8-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - 3) All plates are 1.5x4 MT20 unless otherwise indicated.
  - 4) Gable requires continuous bottom chord bearing.
  - 5) Gable studs spaced at 2-0-0 oc.
  - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2, 8, 9, 10.



January 31, 2022

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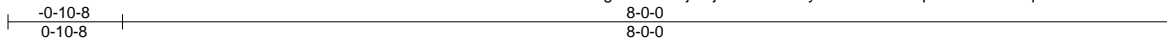
818 Soundside Road  
Edenton, NC 27932

Job 30136-30136A	Truss M2	Truss Type Monopitch	Qty 6	Ply 1	26 PRINCE PLACE - ROOF Job Reference (optional)	I49963414
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84 Components (Dunn), Dunn, NC - 28334,

8,530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:02:29 2022 Page 1

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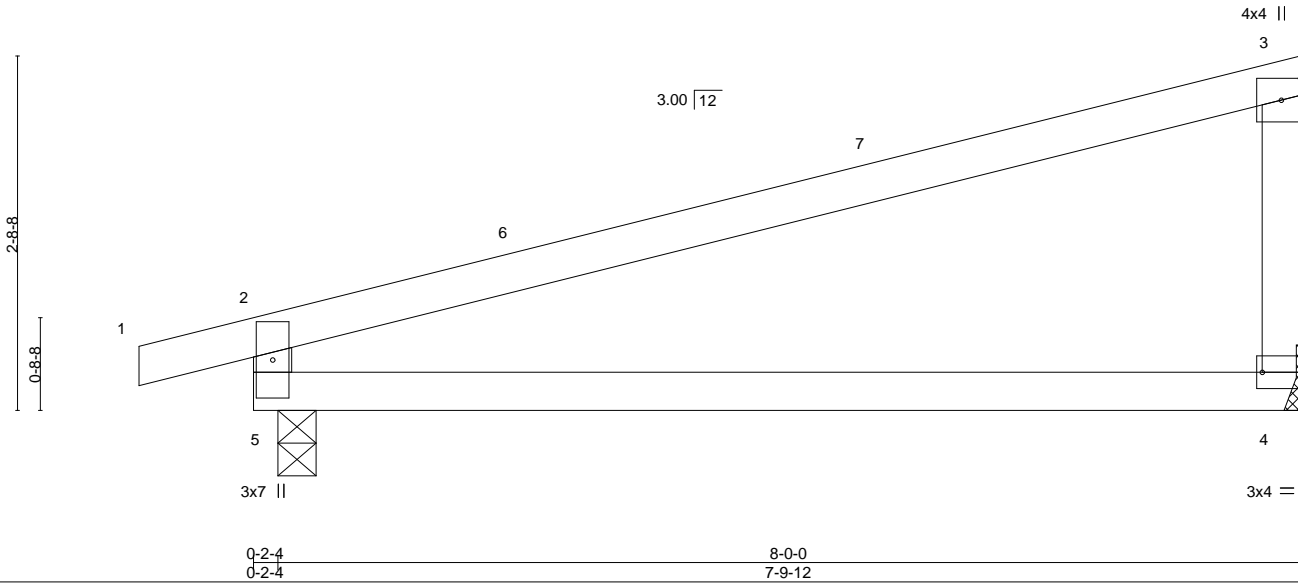


Plate Offsets (X,Y)--	[4:Edge,0-1-8]						
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL	1.15	TC 0.83	Vert(LL)	-0.12	4-5	>752
TCDL 10.0	Lumber DOL	1.15	BC 0.56	Vert(CT)	-0.26	4-5	>353
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	4	n/a
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MR				
							<b>PLATES</b>
							MT20
							<b>GRIP</b>
							197/144
							Weight: 29 lb
							FT = 20%

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

**REACTIONS.** (size) 4=Mechanical, 5=0-3-8  
 Max Horz 5=78(LC 9)  
 Max Uplift 4=-29(LC 12), 5=-50(LC 8)  
 Max Grav 4=304(LC 1), 5=374(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-5=-317/130

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 7-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 4) Refer to girder(s) for truss to truss connections.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.



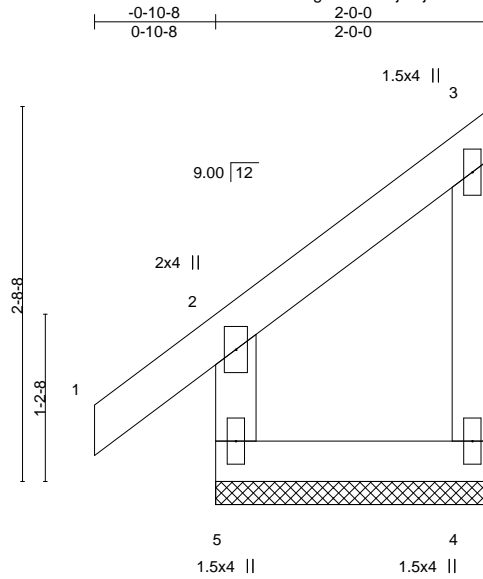
January 31, 2022

Job 30136-30136A	Truss M2E	Truss Type Monopitch Supported Gable	Qty 1	Ply 1	26 PRINCE PLACE - ROOF I49963415
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84 Components (Dunn), Dunn, NC - 28334,

8,530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:02:30 2022 Page 1

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Scale = 1:16.6

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.12	Vert(LL)	0.00	2	n/r	MT20	197/144
BCLL 10.0	Lumber DOL	1.15	BC 0.07	Vert(CT)	-0.00	2	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R						
								Weight: 13 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2  
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2  
 WEBS 2x4 SP No.3

**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) 5=2-0-0, 4=2-0-0  
 Max Horz 5=76(LC 9)  
 Max Uplift 5=-5(LC 12), 4=-42(LC 9)  
 Max Grav 5=148(LC 1), 4=74(LC 19)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 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 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 4.



January 31, 2022

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**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road  
 Edenton, NC 27932

Job 30136-30136A	Truss M2G	Truss Type Monopitch Girder	Qty 1	Ply 1	26 PRINCE PLACE - ROOF	I49963416
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84 Components (Dunn), Dunn, NC - 28334,

8,530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:02:31 2022 Page 1

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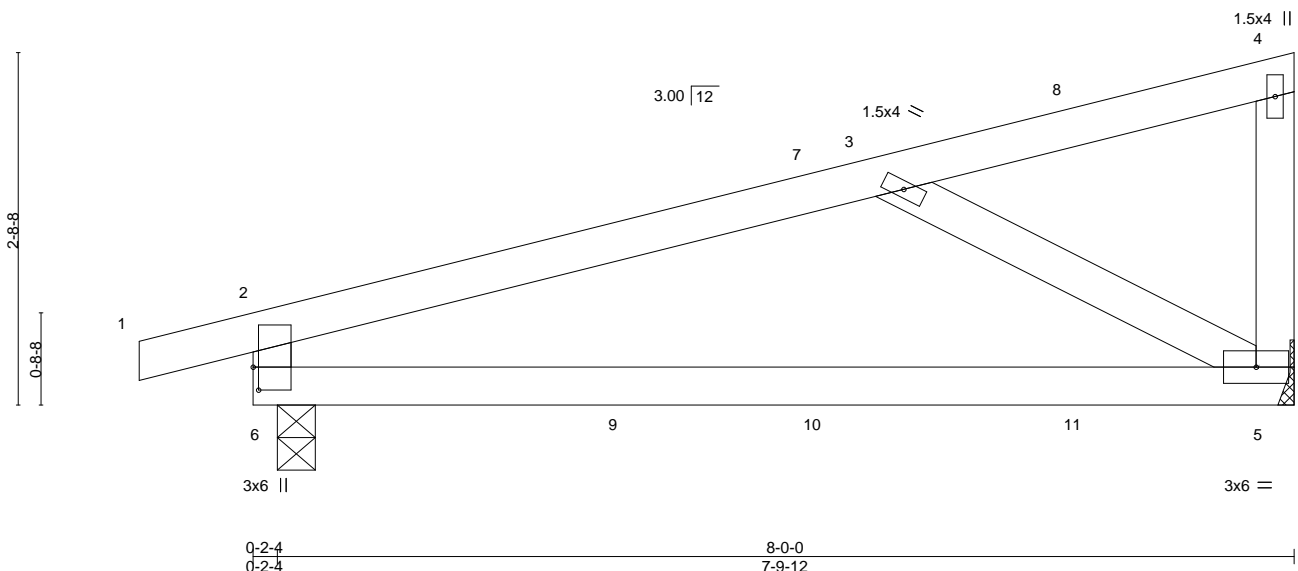


Plate Offsets (X,Y)--	[6:0-2-2,0-0-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.46	Vert(LL)	-0.12	5-6	>774	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.63	Vert(CT)	-0.25	5-6	>366		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.10	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 34 lb	FT = 20%

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

**REACTIONS.** (size) 6=0-3-8, 5=Mechanical  
 Max Horz 6=78(LC 22)  
 Max Uplift 6=-72(LC 4), 5=-50(LC 8)  
 Max Grav 6=409(LC 1), 5=325(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-407/85, 2-6=-293/95  
 BOT CHORD 5-6=-81/361  
 WEBS 3-5=-365/117

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 4) Refer to girder(s) for truss to truss connections.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 5.
  - 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 12 lb down and 20 lb up at 4-4-12, and 13 lb down and 22 lb up at 6-4-12 on top chord, and 54 lb down and 39 lb up at 2-10-12, and 8 lb down at 4-4-12, and 11 lb down and 11 lb up at 6-4-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-2=-60, 2-4=-60, 5-6=-20  
 Concentrated Loads (lb)  
 Vert: 9=-54(F) 10=-2(F) 11=-1(F)





Job 30136-30136A	Truss M3	Truss Type Monopitch	Qty 3	Ply 1	26 PRINCE PLACE - ROOF	149963417
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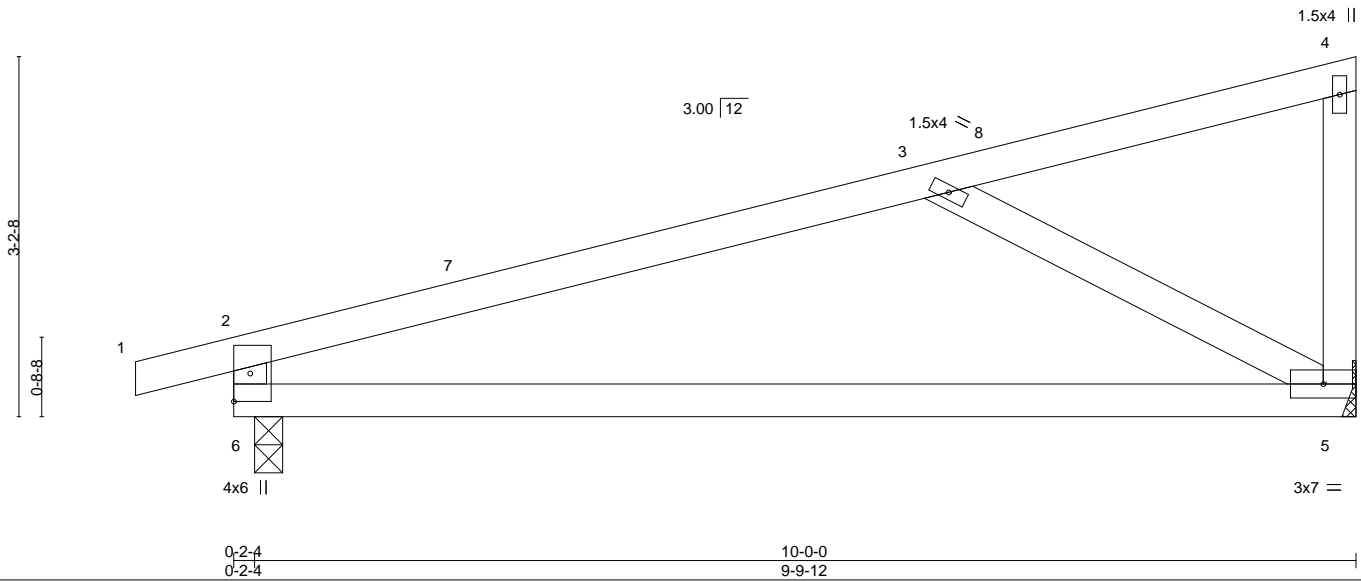
84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:02:32 2022 Page 1

ID:6ghGmW2wjVRjEest?1fGYTyw97h-T7FIIDrTBRb28Gb6WVu5f1EVkeusfgKONJVdc6zqnyL



Scale = 1:20.5



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.73	Vert(LL)	-0.30 5-6	>388	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.88	Vert(CT)	-0.60 5-6	>194	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.17	Horz(CT)	0.01 5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS					Weight: 42 lb	FT = 20%

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

**REACTIONS.** (size) 6=0-3-0, 5=Mechanical  
 Max Horz 6=94(LC 9)  
 Max Uplift 6=-55(LC 8), 5=-36(LC 12)  
 Max Grav 6=453(LC 1), 5=385(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-515/93, 2-6=-355/133  
 BOT CHORD 5-6=-129/457  
 WEBS 3-5=-478/143

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 9-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 4) Refer to girder(s) for truss to truss connections.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 5.



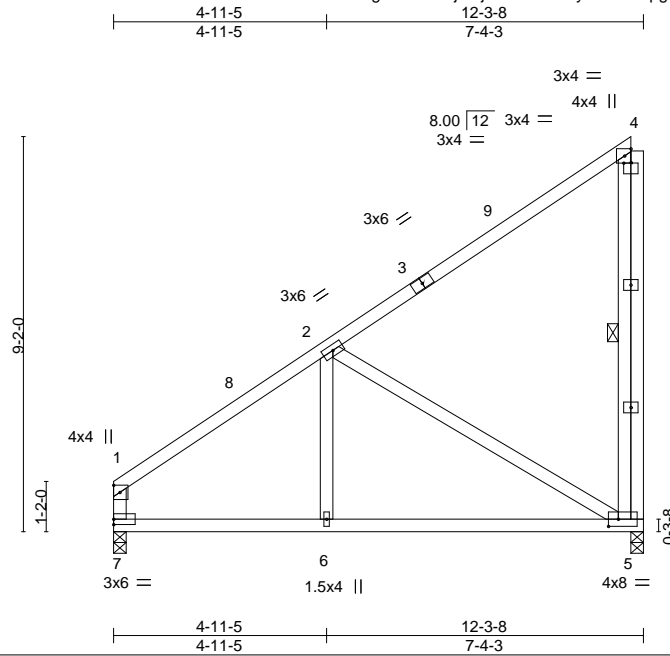


Job 30136-30136A	Truss M7	Truss Type MONOPIITCH	Qty 1	Ply 1	26 PRINCE PLACE - ROOF Job Reference (optional)	149963419
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84 Components (Dunn), Dunn, NC - 28334,

8,530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:02:33 2022 Page 1

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Plate Offsets (X,Y)--	[4:0-2-0,0-0-2], [5:0-2-12,0-2-0]				
<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 20.0	Plate Grip DOL 1.15	TC 0.68	Vert(LL) -0.08 5-6 >999 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.48	Vert(CT) -0.19 5-6 >757 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.57	Horz(CT) 0.01 5 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS		Weight: 84 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 4-5
OTHERS 2x4 SP No.3	

**REACTIONS.** (size) 7=0-3-8, 5=0-3-8  
 Max Horz 7=263(LC 9)  
 Max Uplift 5=88(LC 12)  
 Max Grav 7=474(LC 1), 5=519(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-529/57, 1-7=-389/51  
 BOT CHORD 6-7=-198/500, 5-6=-198/500  
 WEBS 2-5=-462/146

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 12-1-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5.



January 31, 2022

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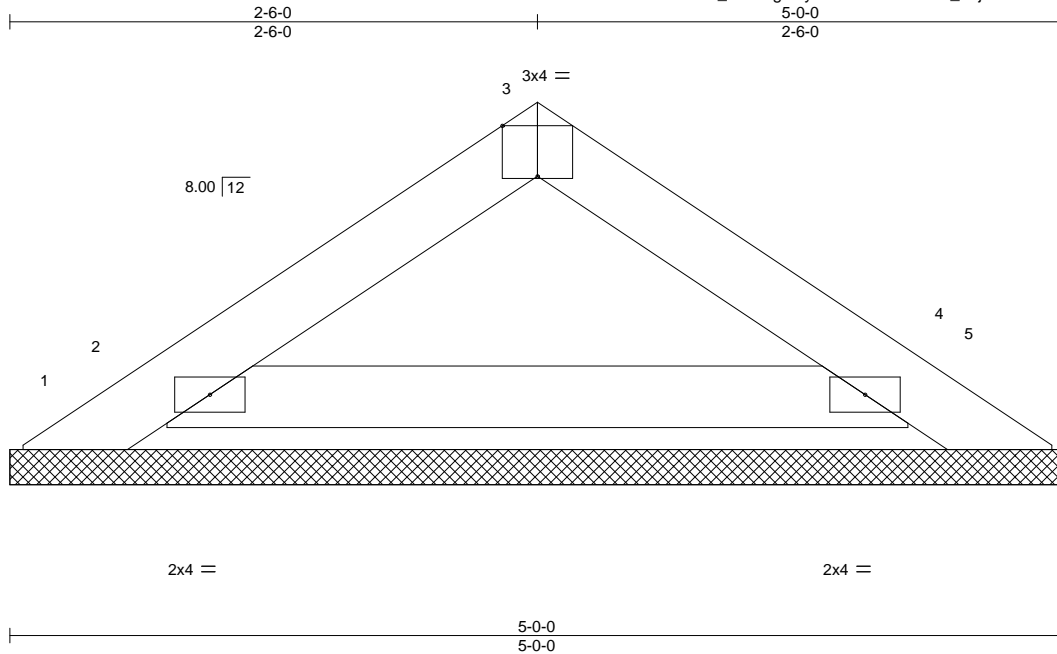
Job 30136-30136A	Truss PB1	Truss Type GABLE	Qty 12	Ply 1	26 PRINCE PLACE - ROOF Job Reference (optional)	149963421
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84 Components (Dunn),

Dunn, NC - 28334,

8,530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:02:35 2022 Page 1

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Scale = 1:10.9

Plate Offsets (X,Y)--	[3:0-2-0,Edge]								
<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 20.0	Plate Grip DOL	1.15	TC 0.05	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.15	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 14 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2  
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.**

All bearings 5-0-0.  
 (lb) - Max Horz 1=-28(LC 8)  
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 2, 4  
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 2, 4

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

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 2, 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



January 31, 2022

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road  
 Edenton, NC 27932

Job 30136-30136A	Truss PB1GE	Truss Type GABLE	Qty 2	Ply 1	26 PRINCE PLACE - ROOF 149963422
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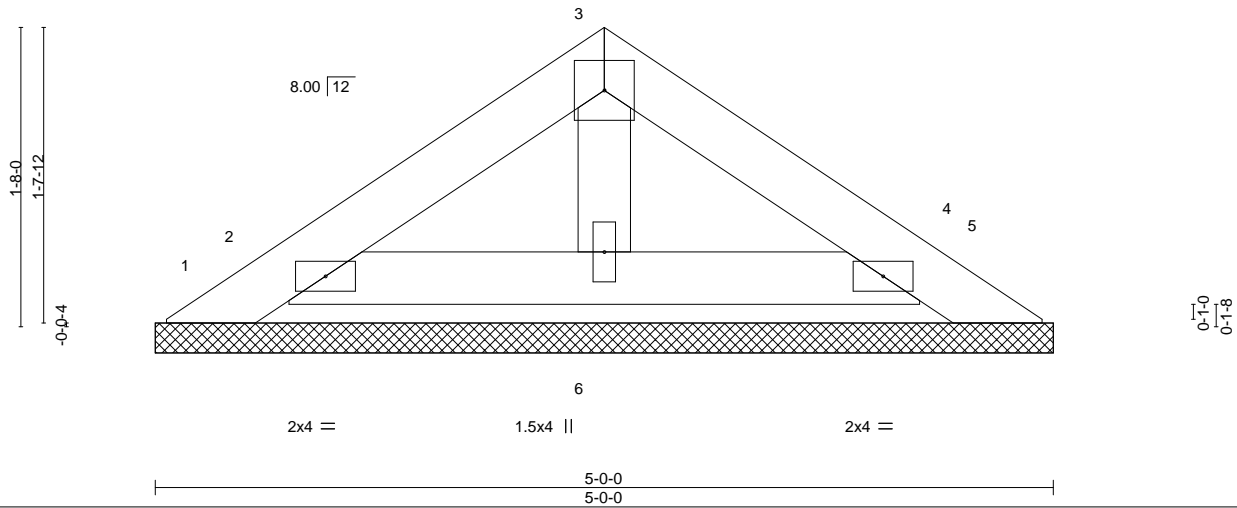
84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:02:36 2022 Page 1  
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4x4 =

Scale = 1:12.8



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.05	Vert(LL)	n/a	-	n/a	999	MT20	197/144
BCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 15 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2  
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2  
 OTHERS 2x4 SP No.3

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.**

All bearings 5-0-0.  
 (lb) - Max Horz 1=-28(LC 8)  
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 2, 4  
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 2, 4, 6

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

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 2, 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



January 31, 2022

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**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



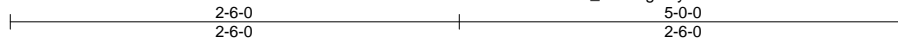
818 Soundside Road  
 Edenton, NC 27932

Job 30136-30136A	Truss PB2	Truss Type GABLE	Qty 1	Ply 2	26 PRINCE PLACE - ROOF 149963423
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84 Components (Dunn), Dunn, NC - 28334,

8,530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:02:38 2022 Page 1

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3x4 =

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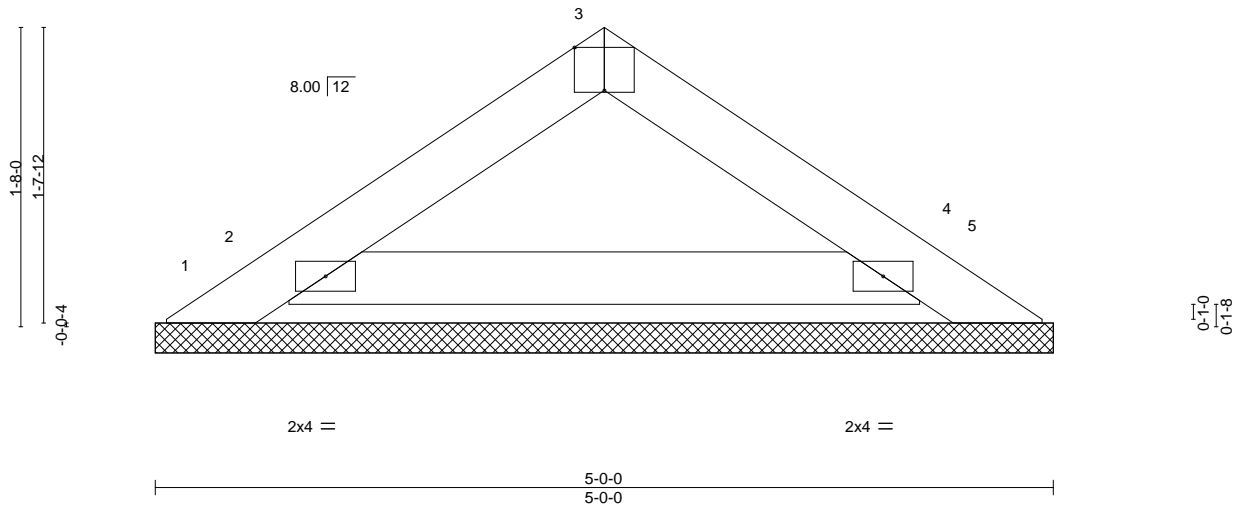


Plate Offsets (X,Y)--	[3:0-2-0,Edge]							
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.02	Vert(LL)	n/a	-	n/a	999
TCDL 10.0	Lumber DOL	1.15	BC 0.07	Vert(CT)	n/a	-	n/a	999
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	5	n/a	n/a
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					
								Weight: 28 lb FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2  
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2

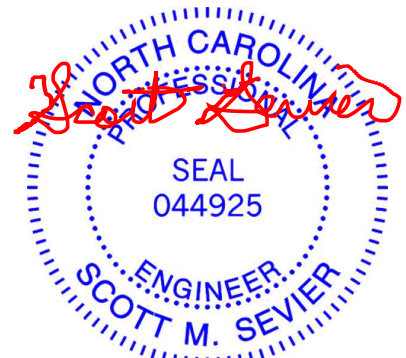
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** All bearings 5-0-0.  
(lb) - Max Horz 1=28(LC 11)  
Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 2, 4  
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 2, 4

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

**NOTES-**

- 2-ply truss to be connected together as follows:  
Top chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc.  
Bottom chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 2, 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



January 31, 2022

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**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road  
Edenton, NC 27932

Job 30136-30136A	Truss PB3	Truss Type GABLE	Qty 1	Ply 2	26 PRINCE PLACE - ROOF 149963424
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84 Components (Dunn), Dunn, NC - 28334,

8,530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:02:39 2022 Page 1

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3x4 =

Scale = 1:12.8

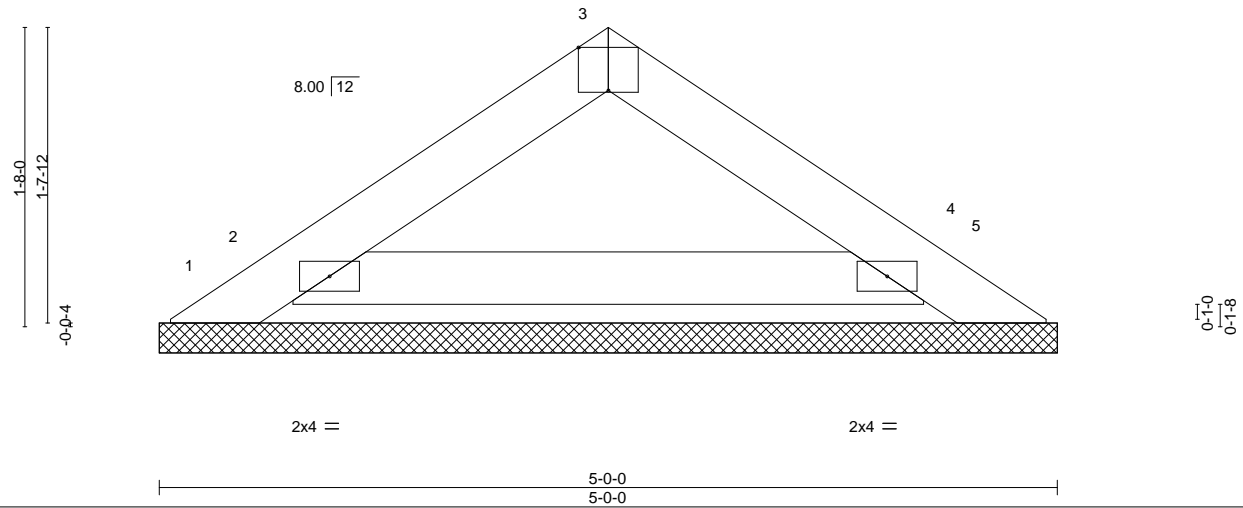


Plate Offsets (X,Y)--	[3:0-2-0,Edge]								
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15		TC 0.02	Vert(LL) n/a	-	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL 1.15		BC 0.07	Vert(CT) n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.00	Horz(CT) 0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 28 lb	FT = 20%

<b>LUMBER-</b>		<b>BRACING-</b>	
TOP CHORD	2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD	2x4 SP No.2 or 2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** All bearings 5-0-0.  
 (lb) - Max Horz 1=28(LC 11)  
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 2, 4  
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 2, 4

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

- NOTES-**
- 2-ply truss to be connected together as follows:  
 Top chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc.  
 Bottom chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - Gable requires continuous bottom chord bearing.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 2, 4.
  - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

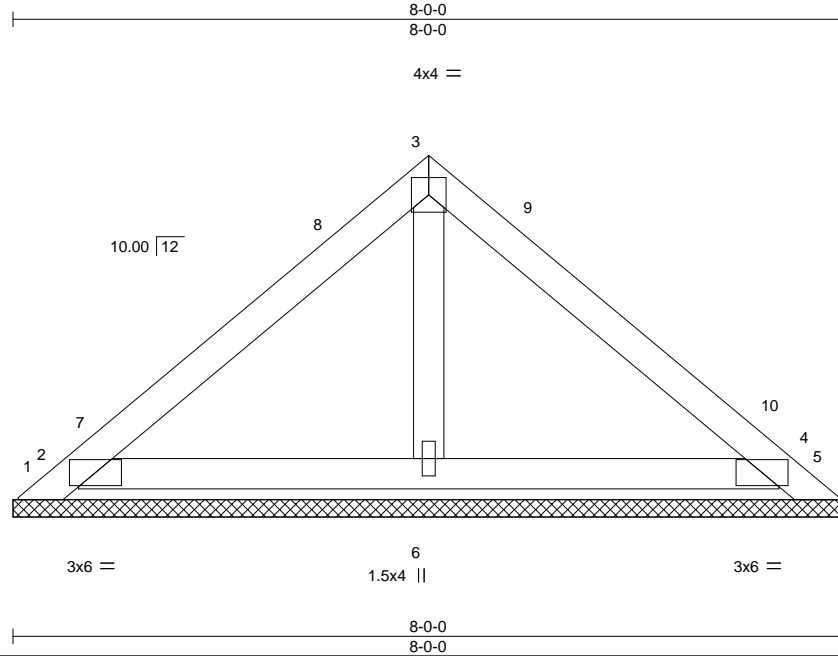


January 31, 2022



Job 30136-30136A	Truss PB4	Truss Type GABLE	Qty 4	Ply 1	26 PRINCE PLACE - ROOF	I49963425
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8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jan 31 10:29:16 2022 Page 1



Scale = 1:22.2

<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 20.0	Plate Grip DOL	1.15	TC 0.19	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.11	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-P					Weight: 29 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2  
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2  
 WEBS 2x4 SP No.3

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6'-0" oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.

**REACTIONS.** All bearings 8'-0-0.  
 (lb) - Max Horz 1=-60(LC 8)  
 Max Uplift All uplift 100 lb or less at joint(s) except 1=-241(LC 19), 5=-211(LC 20), 2=-193(LC 12), 4=-174(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 6 except 2=421(LC 19), 4=400(LC 20)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-3-3 to 3-3-3, Interior(1) 3-3-3 to 4-0-0, Exterior(2) 4-0-0 to 7-0-0, Interior(1) 7-0-0 to 7-8-13 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - Gable requires continuous bottom chord bearing.
  - Gable studs spaced at 2'-0" oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-0" wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 241 lb uplift at joint 1, 211 lb uplift at joint 5, 193 lb uplift at joint 2 and 174 lb uplift at joint 4.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



- LOAD CASE(S)**
- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-2=-84, 2-3=-60, 3-4=-60, 4-5=-84, 2-4=-20
  - Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-2=-74, 2-3=-50, 3-4=-50, 4-5=-74, 2-4=-20
  - Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25

January 31, 2022

Continued on page 2

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	26 PRINCE PLACE - ROOF	149963425
30136-30136A	PB4	GABLE	4	1	Job Reference (optional)	

8.530 s Dec 6 2021 MITek Industries, Inc. Mon Jan 31 10:29:16 2022 Page 2  
 ID:6ghGmW2wjVRjEest?1fGYTYw97h-KHyulnm4XuXmerm8EOwZoES6EPk1LA04prlcqzpsgX

**LOAD CASE(S)**

- Uniform Loads (plf)  
 Vert: 1-2=-44, 2-3=-20, 3-4=-20, 4-5=-44, 2-4=-40
- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=6, 2-8=21, 3-8=16, 3-10=21, 4-10=16, 4-5=1, 2-4=-12  
 Horz: 1-8=-33, 3-8=-28, 3-10=33, 5-10=28
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=1, 2-7=16, 3-7=21, 3-9=16, 4-9=21, 4-5=6, 2-4=-12  
 Horz: 1-7=-28, 3-7=-33, 3-9=28, 5-9=33
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=-70, 2-3=-46, 3-4=-46, 4-5=-70, 2-4=-20  
 Horz: 1-3=26, 3-5=-26
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=-70, 2-3=-46, 3-4=-46, 4-5=-70, 2-4=-20  
 Horz: 1-3=26, 3-5=-26
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=-29, 2-3=-14, 3-4=5, 4-5=-9, 2-4=-12  
 Horz: 1-3=2, 3-5=17
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=-9, 2-3=5, 3-4=-14, 4-5=-29, 2-4=-12  
 Horz: 1-3=-17, 3-5=-2
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=-55, 2-3=-31, 3-4=-12, 4-5=-35, 2-4=-20  
 Horz: 1-3=11, 3-5=8
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=-35, 2-3=-12, 3-4=-31, 4-5=-55, 2-4=-20  
 Horz: 1-3=-8, 3-5=-11
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=4, 2-3=18, 3-4=5, 4-5=-9, 2-4=-12  
 Horz: 1-3=-30, 3-5=17
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=-9, 2-3=5, 3-4=18, 4-5=4, 2-4=-12  
 Horz: 1-3=-17, 3-5=30
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=4, 2-3=18, 3-4=5, 4-5=-9, 2-4=-12  
 Horz: 1-3=-30, 3-5=17
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=-9, 2-3=5, 3-4=18, 4-5=4, 2-4=-12  
 Horz: 1-3=-17, 3-5=30
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=-22, 2-3=2, 3-4=-12, 4-5=-35, 2-4=-20  
 Horz: 1-3=-22, 3-5=8
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=-35, 2-3=-12, 3-4=2, 4-5=-22, 2-4=-20  
 Horz: 1-3=-8, 3-5=22
- 18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90  
 Uniform Loads (plf)  
 Vert: 1-2=-44, 2-3=-20, 3-4=-20, 4-5=-44, 2-4=-20
- 19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=-82, 2-3=-58, 3-4=-44, 4-5=-68, 2-4=-20  
 Horz: 1-3=8, 3-5=6
- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=-68, 2-3=-44, 3-4=-58, 4-5=-82, 2-4=-20  
 Horz: 1-3=-6, 3-5=8
- 21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=-58, 2-3=-34, 3-4=-44, 4-5=-68, 2-4=-20  
 Horz: 1-3=-16, 3-5=6
- 22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	26 PRINCE PLACE - ROOF	I49963425
30136-30136A	PB4	GABLE	4	1	Job Reference (optional)	

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jan 31 10:29:16 2022 Page 3  
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**LOAD CASE(S)**

Uniform Loads (plf)

Vert: 1-2=-68, 2-3=-44, 3-4=-34, 4-5=-58, 2-4=-20

Horz: 1-3=-6, 3-5=16

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-84, 2-3=-60, 3-4=-20, 4-5=-44, 2-4=-20

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-44, 2-3=-20, 3-4=-60, 4-5=-84, 2-4=-20

25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-74, 2-3=-50, 3-4=-20, 4-5=-44, 2-4=-20

26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-44, 2-3=-20, 3-4=-50, 4-5=-74, 2-4=-20

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

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818 Soundside Road  
Edenton, NC 27932

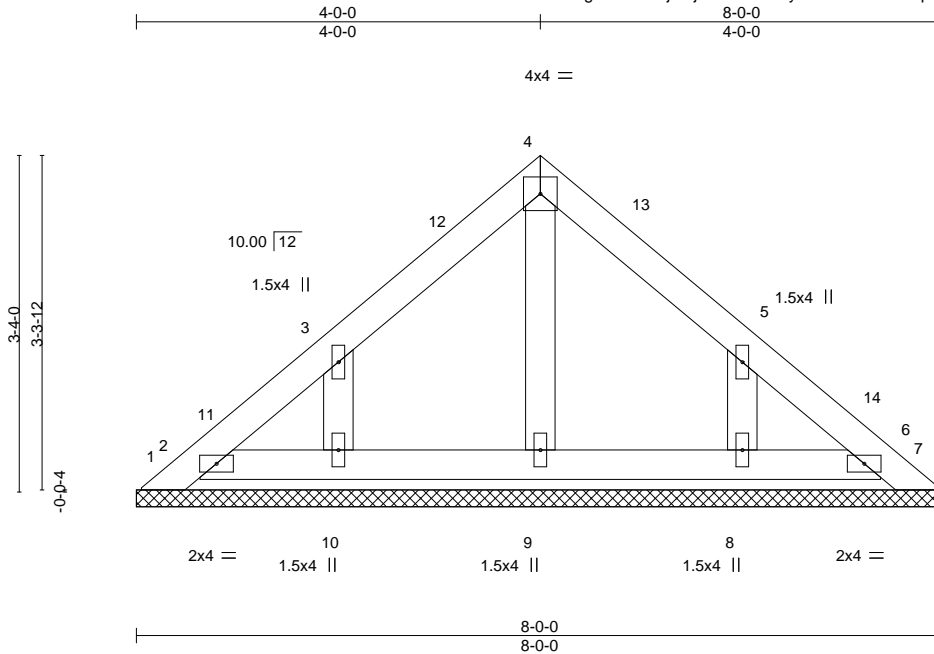
Job 30136-30136A	Truss PB4E	Truss Type GABLE	Qty 1	Ply 1	26 PRINCE PLACE - ROOF 149963426
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84 Components (Dunn),

Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:02:42 2022 Page 1

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Scale = 1:22.8

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.05	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.03	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.03	Horz(CT)	0.00	6	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P						
	Code IRC2015/TPI2014						Weight: 32 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2  
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2  
 OTHERS 2x4 SP No.3

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 6'-0-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10'-0-0 oc bracing.

**REACTIONS.**

All bearings 8'-0-0.  
 (lb) - Max Horz 1=60(LC 9)  
 Max Uplift All uplift 100 lb or less at joint(s) 1, 2, 10, 8  
 Max Grav All reactions 250 lb or less at joint(s) 1, 7, 2, 6, 9, 10, 8

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

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-3-3 to 3-3-3, Interior(1) 3-3-3 to 4-0-0, Exterior(2) 4-0-0 to 7-0-0, Interior(1) 7-0-0 to 7-8-13 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2'-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6-0 tall by 2'-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 2, 10, 8.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



January 31, 2022

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

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**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

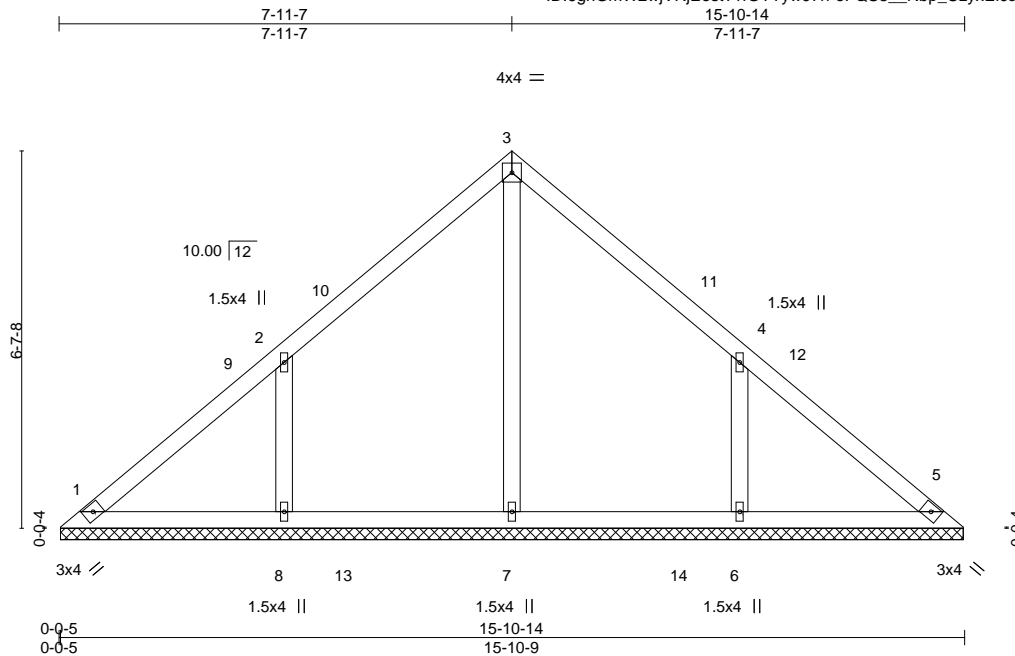


818 Soundside Road  
 Edenton, NC 27932

Job 30136-30136A	Truss V1	Truss Type Valley	Qty 1	Ply 1	26 PRINCE PLACE - ROOF Job Reference (optional)	149963427
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:02:43 2022 Page 1  
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Scale = 1:40.5

<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 20.0	Plate Grip DOL	1.15	TC 0.36	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.17	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.12	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 70 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.3  
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2  
OTHERS 2x4 SP No.3

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.**

All bearings 15-10-4.  
(lb) - Max Horz 1=-122(LC 8)  
Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-127(LC 12), 6=-127(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=351(LC 22), 8=401(LC 19), 6=401(LC 20)

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

WEBS 2-8=-282/172, 4-6=-281/171

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 7-11-7, Exterior(2) 7-11-7 to 10-11-7, Interior(1) 10-11-7 to 15-6-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=127, 6=127.



January 31, 2022

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



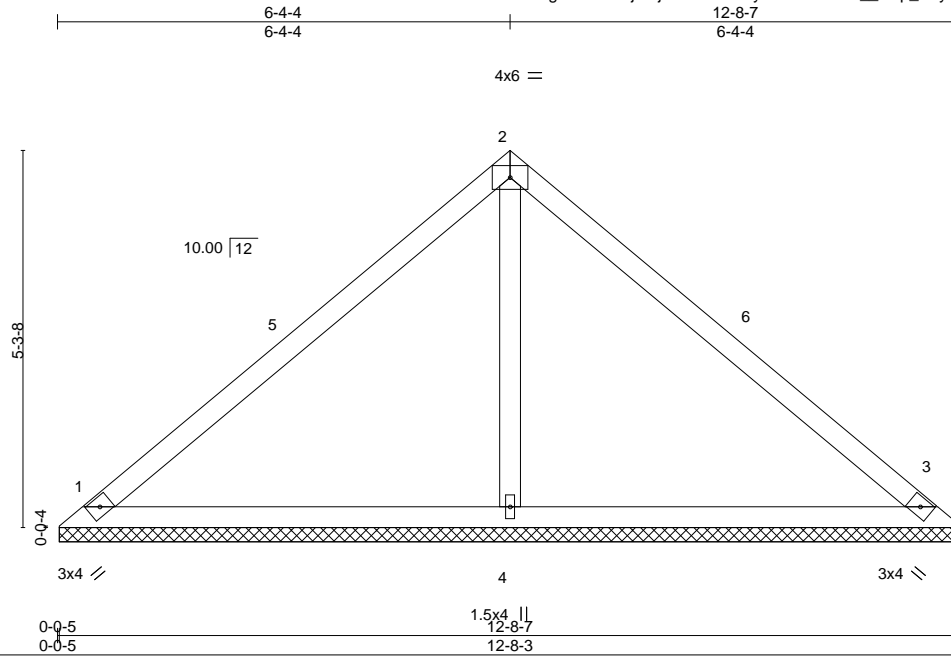
818 Soundside Road  
Edenton, NC 27932

Job 30136-30136A	Truss V2	Truss Type Valley	Qty 1	Ply 1	26 PRINCE PLACE - ROOF 149963428
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84 Components (Dunn), Dunn, NC - 28334,

8,530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:02:43 2022 Page 1

ID:6ghGmW2wjVrjEest?1fGYTyw97h-eFQS3\_\_Nbp\_UzyxEfJagcLCKB4mfjeb0vWgiV\_zqnyA



Scale = 1:32.3

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.91	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.36	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.13	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 49 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.3	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

**REACTIONS.** (size) 1=12-7-14, 3=12-7-14, 4=12-7-14  
 Max Horz 1=-96(LC 8)  
 Max Uplift 1=-16(LC 12), 3=-28(LC 13)  
 Max Grav 1=250(LC 1), 3=250(LC 1), 4=452(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**WEBS** 2-4=-274/47

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 6-4-4, Exterior(2) 6-4-4 to 9-4-4, Interior(1) 9-4-4 to 12-3-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Gable requires continuous bottom chord bearing.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



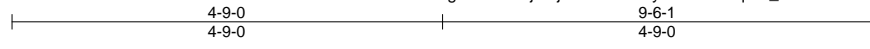
January 31, 2022

Job 30136-30136A	Truss V3	Truss Type Valley	Qty 1	Ply 1	26 PRINCE PLACE - ROOF Job Reference (optional)	149963429
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84 Components (Dunn), Dunn, NC - 28334,

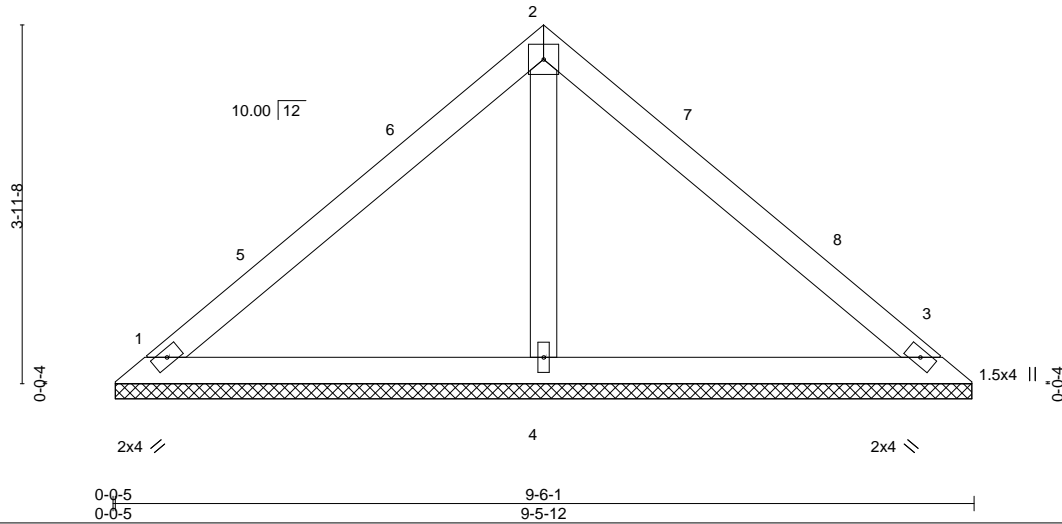
8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:02:44 2022 Page 1

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4x4 =

Scale = 1:25.4



<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 20.0	Plate Grip DOL	1.15	TC 0.45	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.32	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S					Weight: 36 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.3  
BOT CHORD 2x4 SP No.3  
OTHERS 2x4 SP No.3

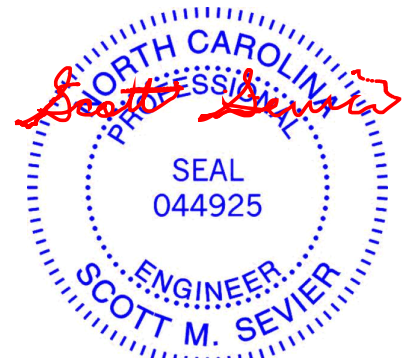
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 1=9-5-7, 3=9-5-7, 4=9-5-7  
Max Horz 1=-70(LC 8)  
Max Uplift 1=-12(LC 13), 3=-21(LC 13)  
Max Grav 1=182(LC 1), 3=182(LC 1), 4=332(LC 1)

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

**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 4-9-0, Exterior(2) 4-9-0 to 7-9-0, Interior(1) 7-9-0 to 9-1-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



January 31, 2022

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

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**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road  
Edenton, NC 27932

Job 30136-30136A	Truss V4	Truss Type GABLE	Qty 1	Ply 1	26 PRINCE PLACE - ROOF Job Reference (optional)	149963430
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84 Components (Dunn), Dunn, NC - 28334,

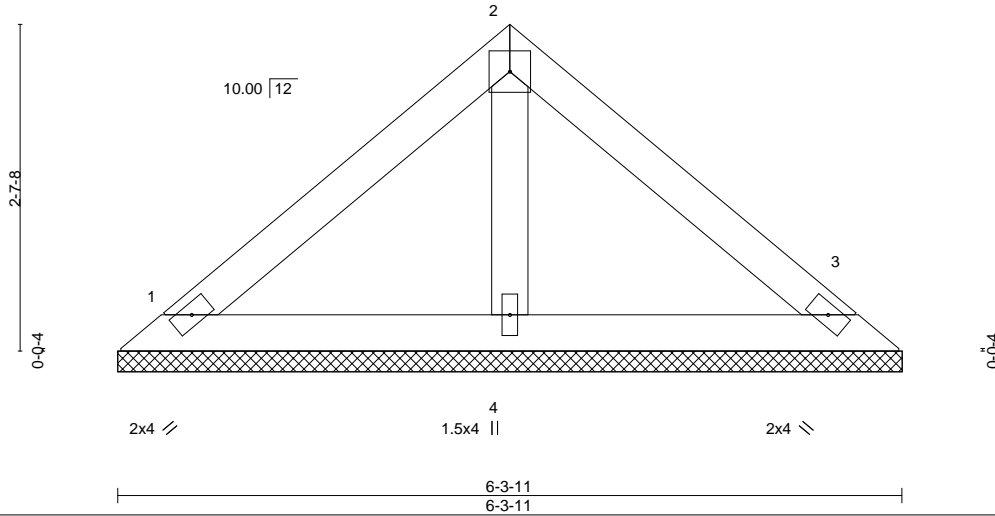
8,530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:02:45 2022 Page 1

ID:6ghGmW2wjVRjEest?1fGYTyw97h-adXCUg?d7RECCF5cmkd8hmHr9tVgBamInq9paszqny8



4x4 =

Scale = 1:18.5



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.24	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.13	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.03	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 23 lb	FT = 20%
	Code IRC2015/TPI2014							

**LUMBER-**  
 TOP CHORD 2x4 SP No.3  
 BOT CHORD 2x4 SP No.3  
 OTHERS 2x4 SP No.3

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

**REACTIONS.** (size) 1=6-3-11, 3=6-3-11, 4=6-3-11  
 Max Horz 1=44(LC 9)  
 Max Uplift 1=-13(LC 13), 3=-19(LC 13)  
 Max Grav 1=125(LC 1), 3=125(LC 1), 4=190(LC 1)

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

**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



January 31, 2022

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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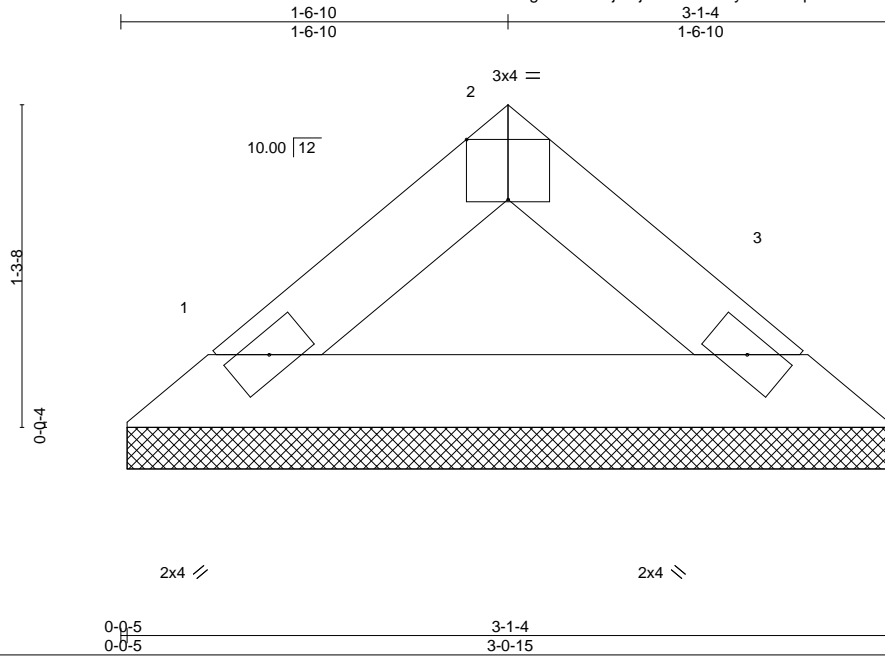


Job 30136-30136A	Truss V5	Truss Type Valley	Qty 1	Ply 1	26 PRINCE PLACE - ROOF Job Reference (optional)	149963431
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84 Components (Dunn), Dunn, NC - 28334,

8,530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:02:46 2022 Page 1

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Scale = 1:9.2

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.04	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.10	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a		
	Code IRC2015/TPI2014			Weight: 9 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.3	TOP CHORD Structural wood sheathing directly applied or 3-1-4 oc purlins.
BOT CHORD 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 1=3-0-11, 3=3-0-11  
 Max Horz 1=-19(LC 8)  
 Max Uplift 1=-1(LC 12), 3=-1(LC 13)  
 Max Grav 1=92(LC 1), 3=92(LC 1)

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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Gable requires continuous bottom chord bearing.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



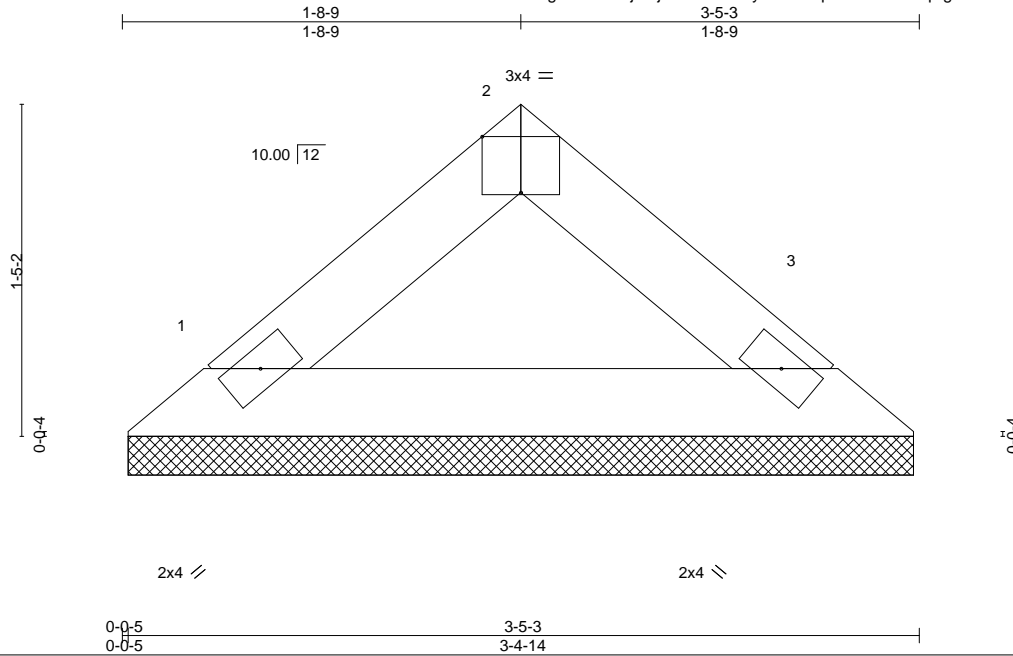
January 31, 2022

Job 30136-30136A	Truss V6	Truss Type Valley	Qty 1	Ply 1	26 PRINCE PLACE - ROOF Job Reference (optional)	149963432
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84 Components (Dunn), Dunn, NC - 28334,

8,530 s Dec 6 2021 MiTek Industries, Inc. Fri Jan 28 15:02:46 2022 Page 1

ID:6ghGmW2wjVRjEest?1fGYTyw97h-2q5bh?0FukM3qPgoKR8NE\_q3qHrpw1PScUuM6Izqny7



Scale = 1:9.9

Plate Offsets (X,Y)-- [2:0-2-0,Edge]									
<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 20.0	Plate Grip DOL 1.15		TC 0.05	Vert(LL) n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.14	Vert(CT) n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.00	Horz(CT) 0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 10 lb	FT = 20%

<b>LUMBER-</b>		<b>BRACING-</b>	
TOP CHORD	2x4 SP No.3	TOP CHORD	Structural wood sheathing directly applied or 3-5-3 oc purlins.
BOT CHORD	2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 1=3-4-9, 3=3-4-9  
 Max Horz 1=-21(LC 8)  
 Max Uplift 1=-1(LC 12), 3=-1(LC 13)  
 Max Grav 1=105(LC 1), 3=105(LC 1)

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

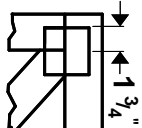
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Gable requires continuous bottom chord bearing.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



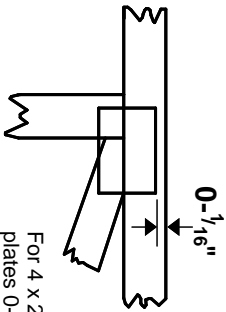
January 31, 2022

# 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

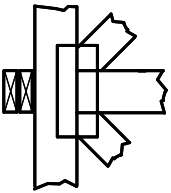
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## 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



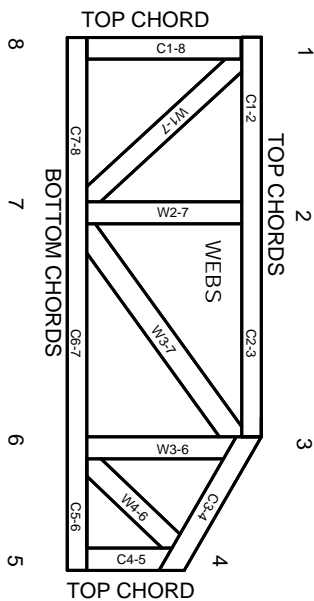
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

### Industry Standards:

ANSI/TPI 1: National Design Specification for Metal Plate Connected Wood Truss Construction.  
DSB-89: Design Standard for Bracing, Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

# Numbering System

6-4-8  
dimensions shown in ft-in-sixteenths  
(Drawings not to scale)



**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.

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MITek Engineering Reference Sheet: Mill-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. Rewriting 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.