

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 29967-29967A 25 PRINCE PLACE - FLOOR

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

Pages or sheets covered by this seal: I49910270 thru I49910286

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

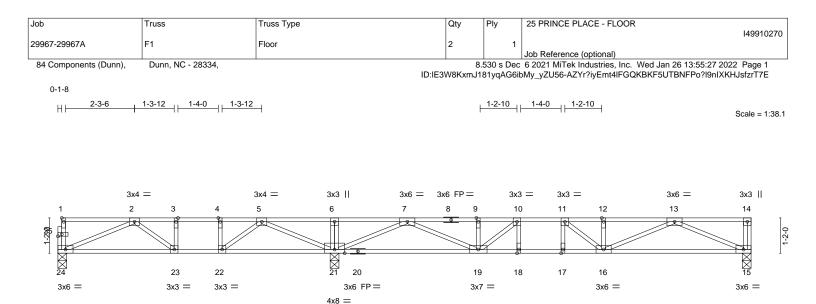
North Carolina COA: C-0844



January 27,2022

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.



	3-1-12			22-11-0		
I	9-1-12	I		13-9-4		I
Plate Offsets (X,Y)	[1:Edge,0-0-12], [25:0-1-8,0-0-12]					
LOADING (psf) TCLL 40.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00	CSI. TC 0.65 BC 0.76	DEFL. in Vert(LL) -0.12 Vert(CT) -0.16	2 17 >999 480	PLATES MT20	GRIP 197/144
BCLL 0.0 BCDL 5.0	Rep Stress Incr YES Code IRC2015/TPI2014	WB 0.53 Matrix-S	Horz(CT) 0.03	3 15 n/a n/a	Weight: 115 lb	FT = 20%F, 11%l
	P No.2 or 2x4 SPF No.2(flat) P No.2 or 2x4 SPF No.2(flat)		BRACING- TOP CHORD	Structural wood sheathing dir except end verticals.	rectly applied or 6-0-0	oc purlins,
	P No.3(flat)		BOT CHORD	Rigid ceiling directly applied	or 6-0-0 oc bracing.	
REACTIONS. (siz Max C	ze) 24=0-3-8, 21=0-3-8, 15=0-3-8 Grav 24=428(LC 3), 21=1485(LC 1), 15=	671(LC 4)				
FORCES. (Ib) - Max	. Comp./Max. Ten All forces 250 (lb) or	less except when shown	·			

22-11-0

 TOP CHORD
 2-3=-791/220, 3-4=-791/220, 4-5=-791/220, 5-6=0/1203, 6-7=0/1203, 7-9=-1581/0, 9-10=-1581/0, 10-11=-1914/0, 11-12=-1914/0, 12-13=-1914/0

 BOT CHORD
 23-24=-51/727, 22-23=-220/791, 21-22=-532/475, 19-21=-63/608, 18-19=0/1914, 17-18=0/1914, 16-17=0/1914, 15-16=0/1282

 WEBS
 6-21=-273/0, 2-24=-786/57, 5-21=-1214/0, 5-22=0/659, 4-22=-310/0, 7-21=-1742/0, 13-15=-1397/0, 7-19=0/1116, 13-16=0/692, 10-19=-601/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.

2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is

the responsibility of the fabricator to increase plate sizes to account for these factors.

9-1-12

3) All plates are 1.5x4 MT20 unless otherwise indicated.

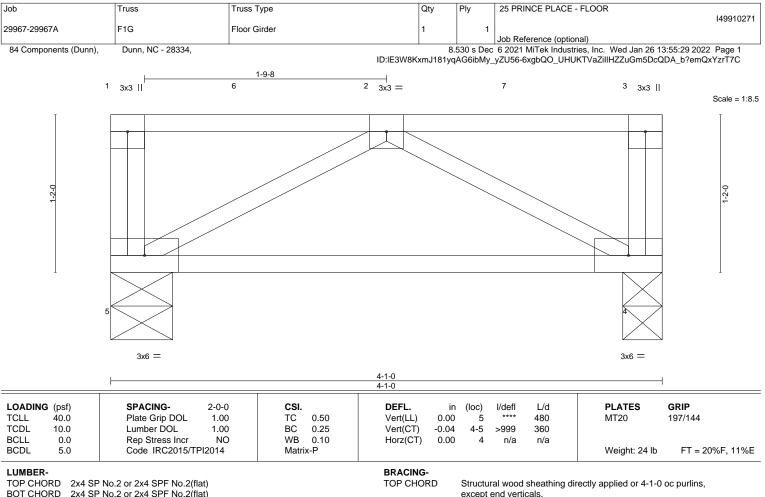
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.

5) CAUTION, Do not erect truss backwards.







BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc bracing.

 BOT CHORD
 2x4 SF N0.2 of 2x4 SFF N0.2(flat)

 WEBS
 2x4 SP No.3(flat)

(size) 5=0-5-8, 4=0-3-8

Max Grav 5=330(LC 1), 4=334(LC 1)

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

BOT CHORD 4-5=0/365 WEBS 2-5=-415/0, 2-4=-415/0

NOTES-

REACTIONS.

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

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

3) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 120 lb down at 1-0-12, and 122

Ib down at 3-0-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.

4) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

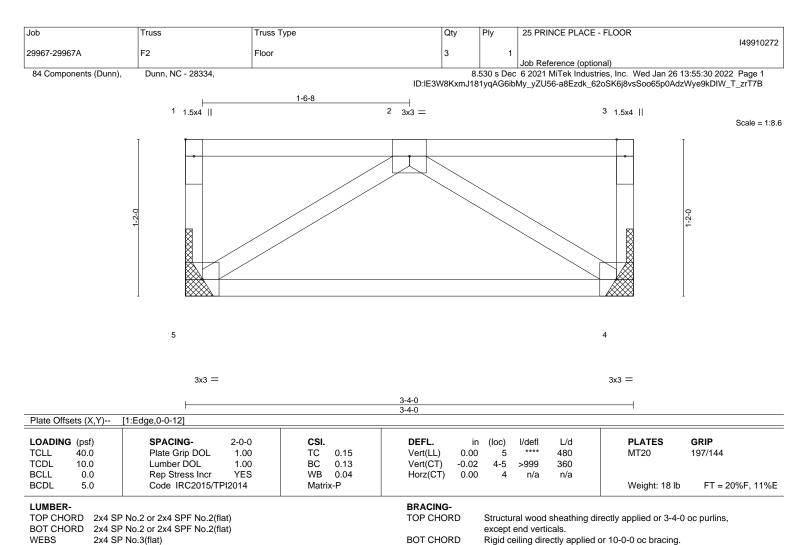
LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf) Vert: 4-5=-10, 1-3=-100 Concentrated Loads (lb) Vert: 6=-120(B) 7=-122(B)







REACTIONS. (size) 5=Mechanical, 4=Mechanical

Max Grav 5=176(LC 1), 4=176(LC 1)

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

NOTES-

1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is

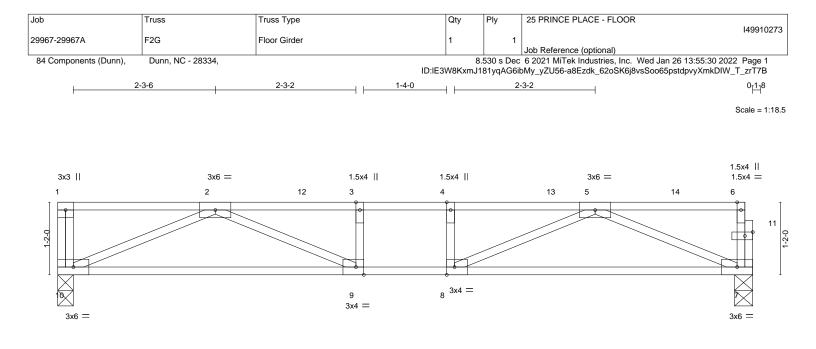
the responsibility of the fabricator to increase plate sizes to account for these factors.

2) Refer to girder(s) for truss to truss connections.

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







			-2-0 -2-0						
Plate Offsets (X,Y)	[8:0-1-8,Edge], [9:0-1-8,Edge], [11:0-1-		-2-0						
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr NO	CSI. TC 0.81 BC 0.81 WB 0.45	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.09 -0.18 0.03	7-8 9-10	l/defl >999 >747 n/a	L/d 480 360 n/a	PLATES MT20	GRIP 197/144
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S						Weight: 56 lb	FT = 20%F, 11%E
BOT CHORD 2x4 SP WEBS 2x4 SP REACTIONS. (size	No.1(flat) No.2 or 2x4 SPF No.2(flat) No.3(flat) a) 10=0-3-0, 7=0-3-8 rav 10=786(LC 1), 7=833(LC 1)		BRACING- TOP CHOR BOT CHOR		except	end vert	icals.	ectly applied or 6-0-0 or 10-0-0 oc bracing.	oc purlins,
TOP CHORD 2-3=- BOT CHORD 9-10=	Comp./Max. Ten All forces 250 (lb) or 2278/0, 3-4=-2278/0, 4-5=-2278/0 =0/1565, 8-9=0/2278, 7-8=0/1588 =-1706/0, 5-7=-1722/0, 2-9=0/890, 5-8=0	·							
NOTES-	e loads have been considered for this d	sian							

1) Unbalanced floor live loads have been considered for this design.

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

3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.

4) CAUTION, Do not erect truss backwards.

5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 266 lb down at 4-0-4, 105 lb down at 6-0-4, and 156 lb down at 8-0-4, and 157 lb down at 10-0-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.

6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

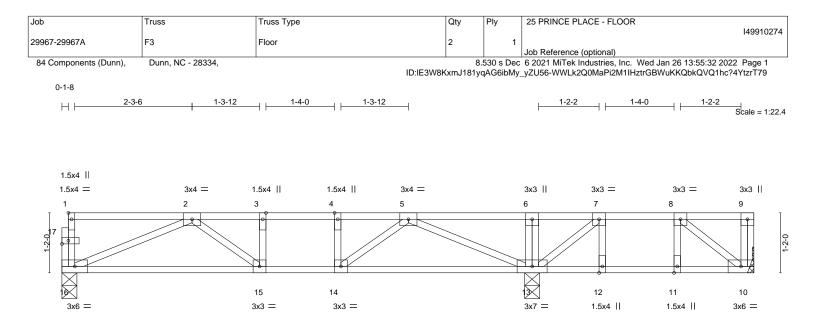
Vert: 7-10=-10, 1-6=-100

Concentrated Loads (lb)

Vert: 4=-76(F) 12=-193(F) 13=-76(F) 14=-79(F)



ENGINEERING BY EREPACED A MITER ATMINITE 818 Soundside Road Edenton, NC 27932



		9-1-12			13-3-0	
		9-1-12		I	4-3-12	
Plate Offsets (X,Y) [1:Edge,0-0-12], [17:0-1-8,0-0-12]					
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES	CSI. TC 0.30 BC 0.34 WB 0.25	Vert(LL) -0.04	n (loc) l/defl L/d 4 15-16 >999 480 7 15-16 >999 360 1 10 n/a n/a	PLATES MT20	GRIP 197/144
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S			Weight: 70 lb	FT = 20%F, 11%E
BOT CHORD 2x4 SP	No.2 or 2x4 SPF No.2(flat) No.2 or 2x4 SPF No.2(flat) No.3(flat)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dir except end verticals. Rigid ceiling directly applied c	,) oc purlins,

REACTIONS. (size) 16=0-3-8, 10=Mechanical, 13=0-3-8 Max Grav 16=473(LC 10), 10=217(LC 4), 13=796(LC 9)

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

TOP CHORD 2-3=-986/0, 3-4=-986/0, 4-5=-986/0

BOT CHORD 15-16=0/833, 14-15=0/986, 13-14=0/758

WEBS 2-16=-901/0, 5-13=-950/0, 2-15=0/281, 5-14=0/375, 7-13=-347/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.

2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is

0-1-12

the responsibility of the fabricator to increase plate sizes to account for these factors.

3) Refer to girder(s) for truss to truss connections.

4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.

5) CAUTION, Do not erect truss backwards.



13-5-8



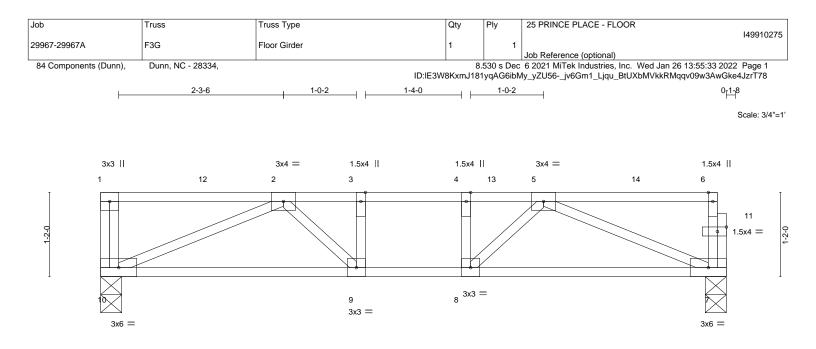


Plate Offsets (X,Y)	[11:0-1-8.0-0-12]		8-8-0			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. ii	n (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0 TCDL 10.0 BCLL 0.0	Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr NO	TC 0.90 BC 0.46 WB 0.35	Vert(LL) -0.04 Vert(CT) -0.06 Horz(CT) 0.02	6 9-10 >999 360	MT20	197/144
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S	()		Weight: 45 lb	FT = 20%F, 11%E
BOT CHORD 2x4 SF	P No.2 or 2x4 SPF No.2(flat) P No.2 or 2x4 SPF No.2(flat) P No.3(flat)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dir except end verticals. Rigid ceiling directly applied o	,) oc purlins,
REACTIONS. (size Max G	e) 10=0-3-8, 7=0-3-8 Brav 10=706(LC 1), 7=638(LC 1)					

8-8-0

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

TOP CHORD 2-3=-1317/0, 3-4=-1317/0, 4-5=-1317/0

BOT CHORD 9-10=0/1231, 8-9=0/1317, 7-8=0/1135

WEBS 2-10=-1342/0, 5-7=-1228/0, 5-8=0/326

NOTES-

1) Unbalanced floor live loads have been considered for this design.

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

3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.

4) CAUTION, Do not erect truss backwards.

5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 273 lb down at 1-6-4, 120 lb down at 3-6-4, and 135 lb down at 5-6-4, and 157 lb down at 7-6-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.

6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

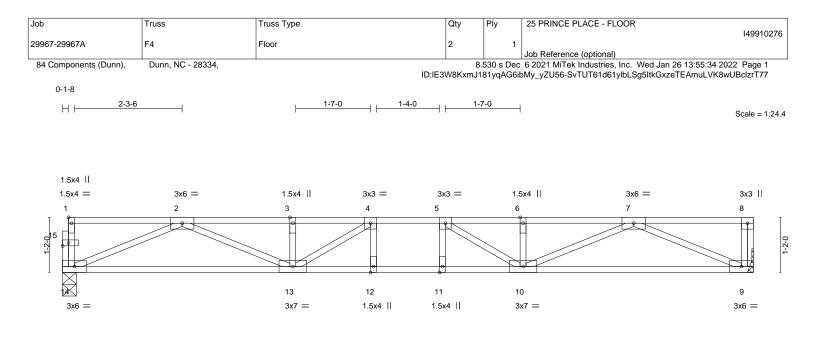
Vert: 7-10=-10, 1-6=-100

Concentrated Loads (lb)

Vert: 3=-76(B) 12=-193(B) 13=-76(B) 14=-79(B)







 			<u>14-7-8</u> 14-7-8			
Plate Offsets (X,Y)	[1:Edge,0-0-12], [15:0-1-8,0-0-12]					
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.39 BC 0.81 WB 0.47 Matrix-S	Vert(LL) -0.16	n (loc) l/defl L/d 5 11-12 >999 480 2 11-12 >768 360 5 9 n/a n/a	PLATES MT20 Weight: 74 lb	GRIP 197/144 FT = 20%F, 11%E
BOT CHORD 2x4 SP	P No.2 or 2x4 SPF No.2(flat) P No.2 or 2x4 SPF No.2(flat) P No.3(flat)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dire except end verticals. Rigid ceiling directly applied or		oc purlins,

REACTIONS. (size) 14=0-3-8, 9=Mechanical Max Grav 14=784(LC 1), 9=791(LC 1)

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

TOP CHORD 2-3=-2451/0, 3-4=-2451/0, 4-5=-2702/0, 5-6=-2450/0, 6-7=-2450/0

BOT CHORD 13-14=0/1552, 12-13=0/2702, 11-12=0/2702, 10-11=0/2702, 9-10=0/1555

WEBS 2-14=-1685/0, 7-9=-1694/0, 2-13=0/983, 7-10=0/980, 4-13=-522/44, 5-10=-523/43

NOTES-

1) Unbalanced floor live loads have been considered for this design.

2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is

the responsibility of the fabricator to increase plate sizes to account for these factors.

3) Refer to girder(s) for truss to truss connections.

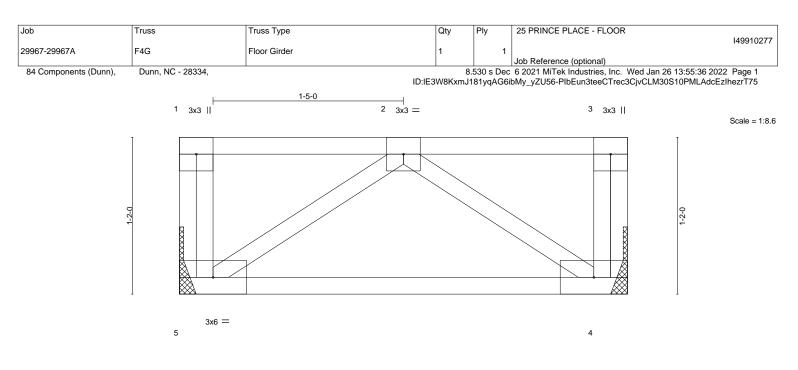
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.

5) CAUTION, Do not erect truss backwards.







3x6 =

			3-4-0 3-4-0			
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr NO Code IRC2015/TPI2014	CSI. TC 0.30 BC 0.16 WB 0.07 Matrix-P	DEFL. i Vert(LL) 0.0 Vert(CT) -0.0 Horz(CT) 0.0	1 4-5 >999 360	PLATES MT20 Weight: 20 lb	GRIP 197/144 FT = 20%F, 11%E
BOT CHORD 2x4 S	P No.2 or 2x4 SPF No.2(flat) P No.2 or 2x4 SPF No.2(flat) P No.3(flat)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dire except end verticals. Rigid ceiling directly applied o	, ,,,) oc purlins,

REACTIONS. (size) 5=Mechanical, 4=Mechanical

Max Grav 5=293(LC 1), 4=293(LC 1)

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

BOT CHORD 4-5=0/254 WEBS 2-5=-307/0, 2-4=-307/0

NOTES-

1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is

the responsibility of the fabricator to increase plate sizes to account for these factors.

2) Refer to girder(s) for truss to truss connections.

3) Load case(s) 1, 2 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.

5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

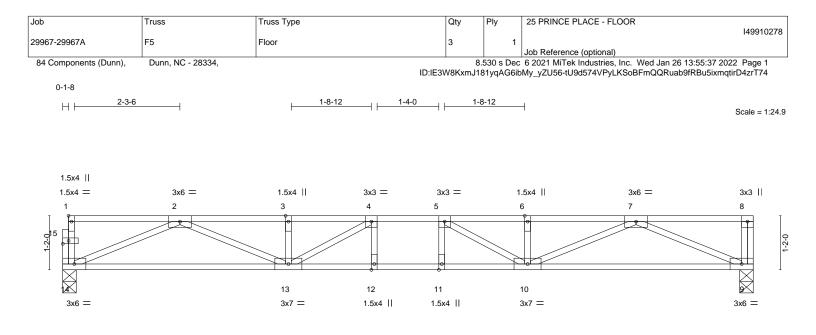
Vert: 4-5=-10, 1-3=-180(F=-80)

2) Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 4-5=-10, 1-3=-180(F=-80)







			<u>14-11-0</u> 14-11-0			
Plate Offsets (X,Y)	[1:Edge,0-0-12], [15:0-1-8,0-0-12]					
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYESCode IRC2015/TPI2014	CSI. TC 0.39 BC 0.85 WB 0.49 Matrix-S	Vert(LL) -0.17	n (loc) l/defl L/d 7 11-12 >999 480 4 11-12 >728 360 5 9 n/a n/a	PLATES MT20 Weight: 75 lb	GRIP 197/144 FT = 20%F, 11%E
BOT CHORD 2x4 SP	No.2 or 2x4 SPF No.2(flat) No.2 or 2x4 SPF No.2(flat) No.3(flat)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing di except end verticals. Rigid ceiling directly applied	, ,,,) oc purlins,

REACTIONS. (size) 14=0-3-8, 9=0-3-8 Max Grav 14=800(LC 1), 9=807(LC 1)

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

TOP CHORD 2-3=-2526/0, 3-4=-2526/0, 4-5=-2815/0, 5-6=-2525/0, 6-7=-2525/0

BOT CHORD 13-14=0/1588, 12-13=0/2815, 11-12=0/2815, 10-11=0/2815, 9-10=0/1591

WEBS 2-14=-1725/0, 7-9=-1733/0, 2-13=0/1026, 7-10=0/1022, 4-13=-562/28, 5-10=-562/27

NOTES-

1) Unbalanced floor live loads have been considered for this design.

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

3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.

4) CAUTION, Do not erect truss backwards.



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 **ANS/TP11 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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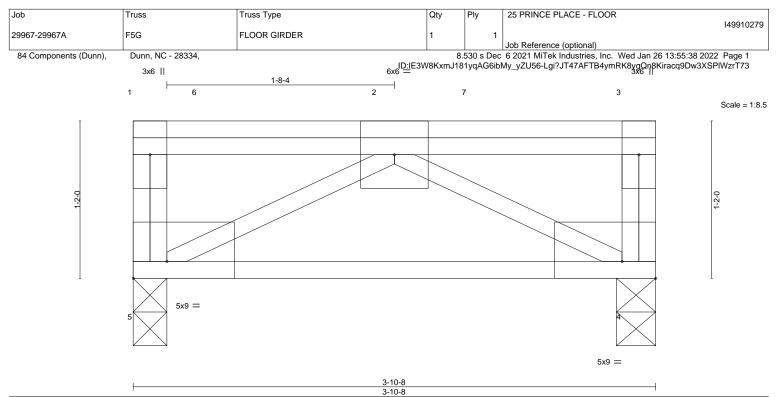


Plate Offsets (X,Y)	[4:Edge,0-1-8], [5:Edge,0-1-8]					
LOADING (psf)	SPACING- 2-0-0	CSI.		n (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.44	Vert(LL) 0.0	0 5 **** 480	MT20	197/144
TCDL 10.0	Lumber DOL 1.00	BC 0.63	Vert(CT) -0.03	3 4-5 >999 360		
BCLL 0.0	Rep Stress Incr NO	WB 0.49	Horz(CT) 0.0	1 4 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-P			Weight: 28 lb	FT = 20%F, 11%E
LUMBER-			BRACING-			
TOP CHORD 2x4 SI	P DSS(flat)		TOP CHORD	Structural wood sheathing dir	ectly applied or 3-10-	8 oc purlins,
BOT CHORD 2x4 SI	P No.2 or 2x4 SPF No.2(flat)			except end verticals.		•
WEBS 2x4 SI	P No.3(flat)		BOT CHORD	Rigid ceiling directly applied of	or 10-0-0 oc bracing.	

REACTIONS. (size) 5=0-3-0, 4=0-3-8 Max Grav 5=1994(LC 1), 4=1412(LC 1)

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

TOP CHORD 1-5=-1023/0, 3-4=-441/0

WEBS 2-5=-2005/0, 2-4=-2005/0

NOTES-

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

2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

- Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 3) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 813 lb down at 0-7-4, 717 lb down at 0-7-4, and 787 lb down at 2-7-4, and 691 lb down at 2-7-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.

4) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

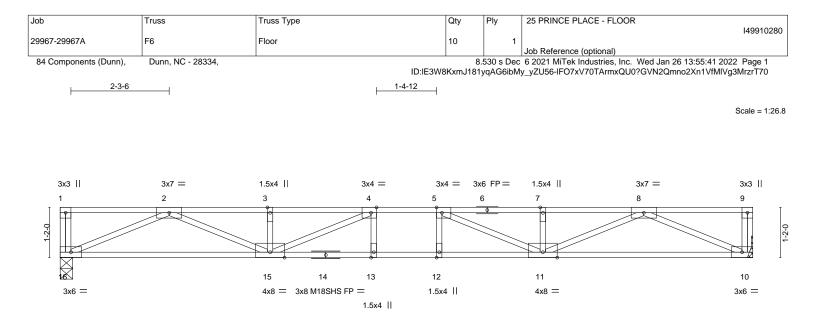
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

- Uniform Loads (plf)
 - Vert: 4-5=-10, 1-3=-100
 - Concentrated Loads (lb)

Vert: 6=-1530(F=-717, B=-813) 7=-1477(F=-691, B=-787)



A MITEK AMULATE BIA Soundside Road Edenton, NC 27932



ŀ			<u>16-1-0</u> 16-1-0			
Plate Offsets (X,Y)	[4:0-1-8,Edge], [5:0-1-8,Edge]					
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYESCode IRC2015/TPI2014	CSI. TC 0.58 BC 0.92 WB 0.57 Matrix-S	Vert(LL) -0.22	n (loc) I/defl L/d 2 12-13 >852 480 12-13 >617 360 5 10 n/a n/a	PLATES MT20 M18SHS Weight: 81 lb	GRIP 197/144 197/144 FT = 20%F, 11%E
BOT CHORD 2x4 SP 10-14:	2 No.2 or 2x4 SPF No.2(flat) 2 No.2 or 2x4 SPF No.2(flat) *Except* 2x4 SP No.1(flat) 2 No.3(flat)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dire except end verticals. Rigid ceiling directly applied o 2-2-0 oc bracing: 13-15.	2 11	1 /
REACTIONS. (size	e) 16=0-3-8, 10=Mechanical					

Max Grav 16=871(LC 1), 10=871(LC 1)

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

TOP CHORD 2-3=-2828/0, 3-4=-2828/0, 4-5=-3293/0, 5-7=-2827/0, 7-8=-2827/0

BOT CHORD 15-16=0/1735, 13-15=0/3293, 12-13=0/3293, 11-12=0/3293, 10-11=0/1736

WEBS 2-16=-1891/0, 8-10=-1891/0, 2-15=0/1196, 3-15=-269/0, 8-11=0/1194, 7-11=-268/0, 4-15=-743/0, 5-11=-745/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.

2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is

the responsibility of the fabricator to increase plate sizes to account for these factors.

3) All plates are MT20 plates unless otherwise indicated.

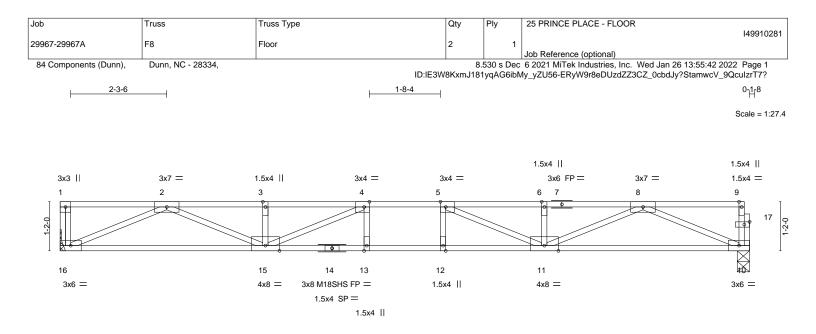
4) Refer to girder(s) for truss to truss connections.

5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.







 			<u>16-4-8</u> 16-4-8			
Plate Offsets (X,Y)	[4:0-1-8,Edge], [5:0-1-8,Edge], [17:0-1-8	3,0-0-12]				
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.61 BC 0.95 WB 0.59 Matrix-S	Vert(LL) -0.24	n (loc) l/defl L/d 4 12-13 >810 480 3 12-13 >586 360 5 10 n/a n/a	PLATES MT20 M18SHS Weight: 81 lb	GRIP 197/144 197/144 FT = 20%F, 11%E
BOT CHORD 2x4 SP 10-14:	No.2 or 2x4 SPF No.2(flat) No.2 or 2x4 SPF No.2(flat) *Except* 2x4 SP No.1(flat) No.3(flat)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dir except end verticals. Rigid ceiling directly applied c 2-2-0 oc bracing: 13-15.	, ,,,	. ,
	e) 16=Mechanical, 10=0-3-8 rav 16=887(LC 1), 10=881(LC 1) Comp./Max. Ten All forces 250 (lb) or	less excent when shown				

TOP CHORD 2-3=-2900/0, 3-4=-2900/0, 4-5=-3407/0, 5-6=-2899/0, 6-8=-2899/0

BOT CHORD 15-16=0/1772, 13-15=0/3407, 12-13=0/3407, 11-12=0/3407, 10-11=0/1770

WEBS 2-16=-1931/0, 8-10=-1923/0, 2-15=0/1234, 3-15=-272/0, 8-11=0/1235, 6-11=-273/0, 4-15=-804/0, 5-11=-807/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.

2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is

the responsibility of the fabricator to increase plate sizes to account for these factors.

3) All plates are MT20 plates unless otherwise indicated.

4) The Fabrication Tolerance at joint 14 = 11%

5) Refer to girder(s) for truss to truss connections.

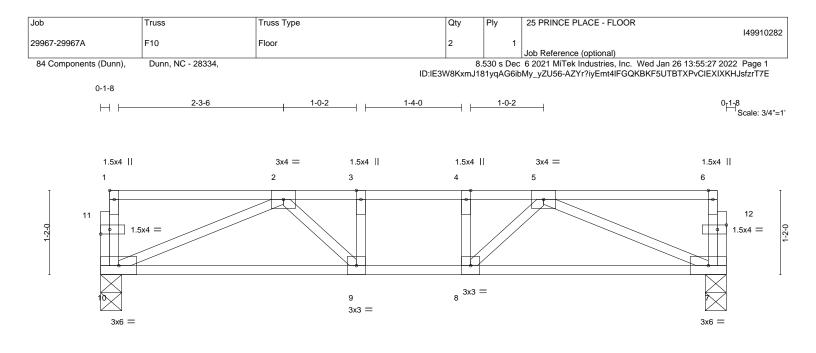
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.

7) CAUTION, Do not erect truss backwards.







L			8-8-0			
L			8-8-0			
Plate Offsets (X,Y)	[1:Edge,0-0-12], [11:0-1-8,0-0-12], [12:0)-1-8,0-0-12]				
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES	CSI. TC 0.31 BC 0.30 WB 0.23	DEFL. in Vert(LL) -0.03 Vert(CT) -0.05 Horz(CT) 0.01	7-8 >999 480 9-10 >999 360	PLATES MT20	GRIP 197/144
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		1 194 194	Weight: 44 lb	FT = 20%F, 11%E
	P No.2 or 2x4 SPF No.2(flat) P No.2 or 2x4 SPF No.2(flat)		BRACING- TOP CHORD	Structural wood sheathing dir except end verticals.	ectly applied or 6-0-0	oc purlins,
WEBS 2x4 SP	PNo.3(flat)		BOT CHORD	Rigid ceiling directly applied of	or 10-0-0 oc bracing.	
REACTIONS. (size Max G	e) 10=0-3-8, 7=0-3-8 irav 10=457(LC 1), 7=457(LC 1)					

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

TOP CHORD 2-3=-918/0, 3-4=-918/0, 4-5=-918/0

BOT CHORD 9-10=0/798, 8-9=0/918, 7-8=0/798

WEBS 2-10=-864/0, 5-7=-864/0, 2-9=0/294, 5-8=0/294

NOTES-

1) Unbalanced floor live loads have been considered for this design.

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

3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.



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 **ANS/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

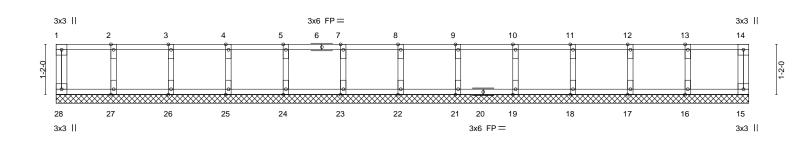
818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	25 PRINCE PLACE - FLOOR		
29967-29967A	KW2	Floor Supported Gable	1	1	149910283		
					Job Reference (optional)		
94 Componente (Dunn)	8 520 a Data 6 2021 MiTak Industrias Inc. Wed Iap 26 12:55:46 2022 Page 1						

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

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jan 26 13:55:46 2022 Page 1 ID:IE3W8KxmJ181yqAG6ibMy_yZU56-6DB0_CB8HjT21BN_op5YITTmL3S5itJ5vnOq03zrT6x

Scale = 1:26.8



			16-1-0 16-1-0					I
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.08 BC 0.01 WB 0.03 Matrix-R	DEFL. n/ Vert(LL) n/ Vert(CT) n/ Horz(CT) 0.0	a -	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 68 lb	GRIP 197/144 FT = 20%F, 11%E
BOT CHORD 2x4 S	P No.2 or 2x4 SPF No.2(flat) P No.2 or 2x4 SPF No.2(flat) P No.3(flat)		BRACING- TOP CHORD BOT CHORD	except e	end verti	cals.	irectly applied or 6-0-0 or 10-0-0 oc bracing.) oc purlins,

OTHERS 2x4 SP No.3(flat)

REACTIONS. All bearings 16-1-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 28, 15, 27, 26, 25, 24, 23, 22, 21, 19, 18, 17, 16

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

NOTES-

1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is

the responsibility of the fabricator to increase plate sizes to account for these factors.

All plates are 1.5x4 MT20 unless otherwise indicated.

3) Gable requires continuous bottom chord bearing.

4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

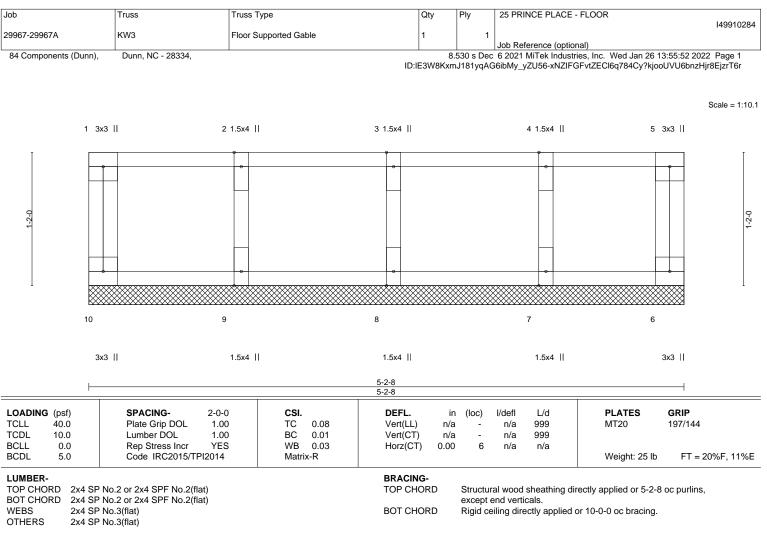
5) Gable studs spaced at 1-4-0 oc.

6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.







REACTIONS. All bearings 5-2-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 10, 6, 9, 8, 7

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

NOTES-

1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is

the responsibility of the fabricator to increase plate sizes to account for these factors.

- 2) Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

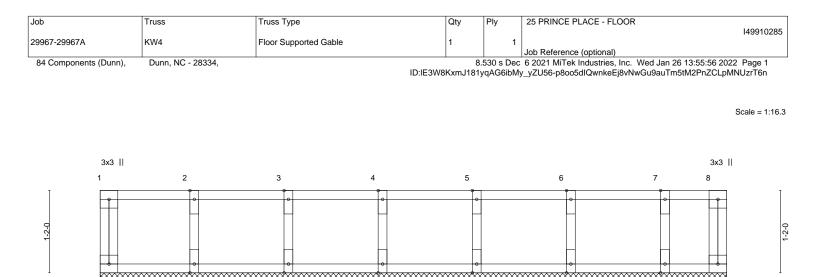
4) Gable studs spaced at 1-4-0 oc.

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



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 **MSIVTP11 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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16 15 3x3 ||

			8-10-8			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. ii	n (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.08	Vert(LL) n/a	a - n/a 999	MT20	197/144
TCDL 10.0	Lumber DOL 1.00	BC 0.02	Vert(CT) n/a	a - n/a 999		
BCLL 0.0	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.00) 9 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-R			Weight: 40 lb	FT = 20%F, 11%E
LUMBER-			BRACING-			
	SP No.2 or 2x4 SPF No.2(flat)		TOP CHORD	Structural wood sheathing di	rectly applied or 6-0-0	oc purlins,
WEBS 2x4	↓ SP No.2 or 2x4 SPF No.2(flat) ↓ SP No.3(flat) ↓ SP No.3(flat)		BOT CHORD	except end verticals. Rigid ceiling directly applied	or 10-0-0 oc bracing.	

8-10-8

REACTIONS. All bearings 8-10-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 16, 9, 15, 14, 13, 12, 11, 10

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

NOTES-

1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is

14

the responsibility of the fabricator to increase plate sizes to account for these factors.

All plates are 1.5x4 MT20 unless otherwise indicated.

3) Gable requires continuous bottom chord bearing.

4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

5) Gable studs spaced at 1-4-0 oc.

6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.



10

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3x3 ||

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/TP11 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

	Truss	Truss Type	Qty	Ply	25 PRINCE PLACE -	FLOOR	149910286
29967-29967A	KW5	GABLE	1	1			143310280
84 Components (Dunn),	Dunn, NC - 28334,					es, Inc. Wed Jan 2	6 13:55:58 2022 Page 1
0118		I	D:106к311Lpx1R9	3106nLUT	/IyOvGr-mvvw2vJKgSP_	_LTTHHVLJME?zp	FvYmWJGsgfISRMzrT6l 0 ₁₁ 8
H							
							Scale = 1:23.1
1 2	3	4 5 6	7		8 9	10	11 12
			•			<u> </u>	
					•		
24 23	22	21 20 19	18		17 16	15	14 13
24 23	22	21 20 19	10		17 10	15	14 13
3x3 =							3x3 =
3x3 =							3x3 =
3x3 =							3x3 =
3x3 =							3х3 =
3x3 =							3x3 =
3x3 =							3x3 =
L 1-4-0 I	<u>2-8-0</u> 4-0-0	5-4-0 6-8-0	8-0-0	9-4-0	10-8-0		13-4-0 ₁ 13-11-0 ₁
<u>1-4-0</u> 1-4-0 ⊢	2-8-0 4-0-0 1-4-0 1-4-0 Edge,0-0-12], [25:0-1-8,0-0	1-4-0 1-4-0	8-0-0 1-4-0	<u>9-4-0</u> 1-4-0	<u>10-8-0</u> 1-4-0	12-0-0 1-4-0	
⊢ 1-4-0 1-4-0 Plate Offsets (X,Y) [1: LOADING (psf)	1-4-0 1-4-0 Edge,0-0-12], [25:0-1-8,0-0 SPACING- 2-0	-12], [26:0-1-8,0-0-12] -0-0 CSI .	1-4-0 DEFL.		l/defl L/d	1-4-0 PLATES	13-4-0 13-11-0 1-4-0 0-7-0 GRIP
<u>1-4-0</u> 1-4-0 Plate Offsets (X,Y) [1: LOADING (psf) TCLL 40.0	1-4-0 1-4-0 Edge,0-0-12], [25:0-1-8,0-0 SPACING- 2-0 Plate Grip DOL 1.	1-4-0 1-4-0 -12], [26:0-1-8,0-0-12] 0-0 CSI. 00 TC 0.08	1-4-0 DEFL. Vert(LL) n.	1-4-0 in (loc) /a -	l/defl L/d n/a 999	1-4-0	13-4-0 13-11-0 1-4-0 0-7-0
1-4-0 1-4-0 Plate Offsets (X,Y) ICADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0	1-4-0 1-4-0 Edge,0-0-12], [25:0-1-8,0-0 SPACING- 2-(Plate Grip DOL 1. Lumber DOL 1. Rep Stress Incr YI	1-4-0 1-4-0 -12], [26:0-1-8,0-0-12] 0-0 CSI. 00 TC 0.08 00 BC 0.02 ES WB 0.03	1-4-0 DEFL. Vert(LL) n.	1-4-0 in (loc) /a - /a -	l/defl L/d	1-4-0 PLATES MT20	13-4-0 1-4-0 GRIP 197/144
1-4-0 1-4-0 Plate Offsets (X,Y) [1:] LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	1-4-0 1-4-0 Edge,0-0-12], [25:0-1-8,0-0 SPACING- 2-0 Plate Grip DOL 1. Lumber DOL 1.	1-4-0 1-4-0 -12], [26:0-1-8,0-0-12] 0-0 CSI. 00 TC 0.08 00 BC 0.02 ES WB 0.03	DEFL. Vert(LL) n. Vert(CT) n. Horz(CT) 0.0	1-4-0 in (loc) /a - /a -	l/defl L/d n/a 999 n/a 999	1-4-0 PLATES	13-4-0 1-4-0 GRIP 197/144
1-4-0 1-4-0 Plate Offsets (X,Y) ICADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	1-4-0 1-4-0 Edge,0-0-12], [25:0-1-8,0-0 SPACING- 2-C Plate Grip DOL 1. Lumber DOL 1. Rep Stress Incr YI Code IRC2015/TPI201	1-4-0 1-4-0 -12], [26:0-1-8,0-0-12] 0-0 CSI. 00 TC 0.08 00 BC 0.02 ES WB 0.03	DEFL. Vert(LL) n. Vert(CT) n. Horz(CT) 0.C	1-4-0 in (loc) /a - /a - 00 13	1-4-0 I/defl L/d n/a 999 n/a 999 n/a n/a	PLATES MT20 Weight: 60	<u>13-4-0</u> <u>1-4-0</u> 0-7-0 GRIP 197/144 Ib FT = 20%F, 11%E
1-4-0 1-4-0 Plate Offsets (X,Y) [1:] LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	1-4-0 1-4-0 Edge,0-0-12], [25:0-1-8,0-0 SPACING- Plate Grip DOL 1. Lumber DOL 1. Rep Stress Incr YI Code IRC2015/TPI201 0.2 or 2x4 SPF No.2(flat) 0.2 or 2x4 SPF No.2(flat)	1-4-0 1-4-0 -12], [26:0-1-8,0-0-12] 0-0 CSI. 00 TC 0.08 00 BC 0.02 ES WB 0.03	DEFL. Vert(LL) n. Vert(CT) n. Horz(CT) 0.0	1-4-0 in (loc) /a - /a - 00 13 Structu except	l/defl L/d n/a 999 n/a 999	PLATES MT20 Weight: 60 ectly applied or 6-1	13-4-0 13-11-0 1-4-0 0.7-0 GRIP 197/144 Ib FT = 20%F, 11%E 0-0 oc purlins,

(lb) - Max Grav All reactions 250 lb or less at joint(s) 24, 13, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14

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

NOTES-

1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is

the responsibility of the fabricator to increase plate sizes to account for these factors.

2) All plates are 1.5x4 MT20 unless otherwise indicated.

3) Gable requires continuous bottom chord bearing.

4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

5) Gable studs spaced at 1-4-0 oc.

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





