

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 28587-28587A 10 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: I48477515 thru I48477536

My license renewal date for the state of North Carolina is December 31, 2021.

North Carolina COA: C-0844



October 25,2021

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.



2-4-4	2-5-12 0-1-8		17-1-4 14-7-8					
Plate Offsets (X,Y)	[19:0-1-8,0-0-12]		14-7-0					
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 0.50 BC 0.93 WB 0.52 Matrix-S	DEFL. ir Vert(LL) -0.17 Vert(CT) -0.22 Horz(CT) 0.04	n (loc) l/defl L/d 7 13-14 >999 480 2 13 >789 360 4 11 n/a n/a	PLATES GRIP MT20 197/144 Weight: 88 lb FT = 20%F, 11%E			
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP WEBS 2x4 SP REACTIONS (size Max G	No.2 or 2x4 SPF No.2(flat) No.2 or 2x4 SPF No.2(flat) No.3(flat) a) 17=0-3-8, 11=Mechanical rav 17=1198(LC 1), 11=774(LC 4)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing except end verticals. Rigid ceiling directly applie	directly applied or 6-0-0 oc purlins, ed or 6-0-0 oc bracing.			
FORCES. (lb) - Max. TOP CHORD 1-2=0 8-9=- 8-9=- BOT CHORD 15-17 WEBS 2-17= 5-15= 5-15=	Comp./Max. Ten All forces 250 (lb) of)/462, 2-3=0/463, 3-4=-2258/0, 4-5=-222 2379/0 ?=-29/1297, 14-15=0/2589, 13-14=0/258 =-273/0, 1-17=-507/0, 3-17=-1703/0, 9-1 =-655/0, 6-12=-472/146	less except when shown 58/0, 5-6=-2589/0, 6-8=-2 39, 12-13=0/2589, 11-12= 1=-1653/0, 3-15=0/1094,	n. 1379/0, =0/1517 9-12=0/944,					
 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) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss. 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means. 6) CAUTION, Do not erect truss backwards. 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 110 lb down at 0-2-4 on top chord. The design/selection of such connection device(s) is the responsibility of others. 8) In the IODD COSE(s) portion plancing and plancing the targe or proted as free (P). 								
LOAD CASE(S) Stant 1) Dead + Floor Live (b Uniform Loads (plf) Vert: 11-18- Concentrated Loads Vert: 1=-11(2) Dead: Lumber Incre: Uniform Loads (plf) Vert: 11-18- Concentrated Loads Vert: 1=-11(dard alanced): Lumber Increase=1.00, Plate =-10, 1-10=-100 (b) D(F) ase=1.00, Plate Increase=1.00 =-10, 1-10=-100 (lb) D(F)	Increase=1.00			SEAL 044925 MGINEER M. SEVINI October 25,2021			
WARNING - Verify	design parameters and READ NOTES ON THIS ANI	D INCLUDED MITEK REFERENCE	CE PAGE MII-7473 rev. 5/19/202	20 BEFORE USE.	ENGINEERING BY			

818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	10 PRINCE PLACE - FLOOR	
						148477515
28587-28587A	F1	Floor	5	1		
					Job Reference (optional)	
84 Components (Dunn),	Dunn, NC - 28334,		8	520 s Aug	27 2021 MiTek Industries, Inc. Thu Oct 21 15:21:34 2021	Page 2

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 21 15:21:34 2021 Page 2 ID:minGCUqRdNuhOuAvJVJ87Dz_qbA-_twjWn2NeleNCzP1jvxRraS6q3HQp6hkqd_vVZyR92I

LOAD CASE(S) Standard
3) 1st Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 11-18=-10, 1-2=-100, 2-10=-20
Concentrated Loads (lb)
Vert: 1=-110(F)
2nd Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 11-18=-10, 1-2=-20, 2-10=-100
Concentrated Loads (lb)
Vert: 1=-110(F)
5) 3rd unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
Vert: 11-18=-10, 1-2=-100, 2-10=-20
Vort: 1-110(E)
6) 4th unbalanced Dead: Lumber Increase-1.00. Plate Increase-1.00
Uniform Loads (olf)
Vert: 11-18=-10 1-2=-20 2-10=-100
Concentrated Loads (Ib)
Vert: 1=-110(F)
7) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 11-18=-10, 1-2=-20, 2-6=-100, 6-10=-20
Concentrated Loads (lb)
Vert: 1=-110(F)
8) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 11-18=-10, 1-2=-100, 2-5=-20, 5-10=-100
Concentrated Loads (Ib)
Vert: 1=-110(F)
9) 3rd chase Dead: Lumber increase=1.00, Plate increase=1.00
Vert: 11-1810 1-220 2-6100 6-1020
Concentrated Loads (Ib)
Vert: 1=-110(F)
10) 4th chase Dead: Lumber Increase=1.00. Plate Increase=1.00
Uniform Loads (plf)
Vert: 11-18=-10, 1-2=-100, 2-5=-20, 5-10=-100
Concentrated Loads (lb)
Vert: 1=-110(F)





020							
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 0.89 BC 0.44 WB 0.38 Matrix-P	DEFL. in (loc) l/defl L/d Vert(LL) -0.02 7 >999 480 Vert(CT) -0.03 7 >999 360 Horz(CT) 0.01 6 n/a n/a	PLATES GRIP MT20 197/144 Weight: 35 lb FT = 20%F, 11%E			

LOI	.n-
TO	

REACTIONS.

TOP CHORD	2x4 SP No.1(flat)
BOT CHORD	2x4 SP No.2 or 2x4 SPF No.2(flat)
WEBS	2x4 SP No.3(flat)

BRACING-TOP CHORD BOT CHORD

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

Max Grav 8=1480(LC 1), 6=990(LC 1)

8=0-6-0, 6=Mechanical

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

1-8=-653/0, 2-3=-1610/0, 3-4=-1610/0 TOP CHORD

(size)

BOT CHORD 7-8=0/1187, 6-7=0/1314

2-8=-1439/0, 2-7=0/520, 3-7=-482/0, 4-7=0/364, 4-6=-1593/0 WEBS

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.

4) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 631 lb down at 0-1-8, and 592 Ib down at 2-4-4, and 592 lb down at 4-4-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.

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: 6-8=-10, 1-5=-100

Concentrated Loads (lb) Vert: 1=-631(F) 4=-592(F) 9=-592(F)



818 Soundside Road Edenton, NC 27932



2-4-4	0-ˈ1 ^l -8		14-11-0				1		
Plate Offsets (X,Y)	[19:0-1-8,0-0-12]								
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrNOCode IRC2015/TPI2014	CSI. TC 0.51 BC 0.97 WB 0.54 Matrix-S	DEFL. ir Vert(LL) -0.18 Vert(CT) -0.24 Horz(CT) 0.05	n (loc) l/defl 3 13-14 >986 4 13 >747 5 11 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 89 lb	GRIP 197/144 FT = 20%F, 11%E		
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP WEBS 2x4 SP REACTIONS. (size Max G	P No.2 or 2x4 SPF No.2(flat) No.2 or 2x4 SPF No.2(flat) No.3(flat) a) 17=0-3-8, 11=0-3-8 irav 17=1214(LC 1), 11=791(LC 4)		BRACING- TOP CHORD BOT CHORD	Structural wood except end ver Rigid ceiling di	d sheathing di ticals. rectly applied	irectly applied or 6-0-0 or 6-0-0 oc bracing.	oc purlins,		
FORCES. (lb) - Max. TOP CHORD 1-2=(7-9=- BOT CHORD 15-17 WEBS 2-17= 7-12=	Comp./Max. Ten All forces 250 (lb) or 0/462, 2-3=0/463, 3-4=-2331/0, 4-5=-23 2457/0 r=-20/1332, 14-15=0/2704, 13-14=0/270 274/0, 1-17=-507/0, 3-17=-1741/0, 9-1 =-253/0, 5-15=-698/0, 6-12=-511/131	less except when shown 31/0, 5-6=-2704/0, 6-7=-2)4, 12-13=0/2704, 11-12= 1=-1693/0, 3-15=0/1135,	457/0, :0/1554 9-12=0/988,						
NOTES- 1) Unbalanced floor live 2) As requested, plates the responsibility of 1 3) Load case(s) 1, 2, 3 for the intended use 4) Recommend 2x6 str Strongbacks to be a 5) CAUTION, Do not e 6) Hanger(s) or other of chord. The design/s 7) In the LOAD CASE(LOAD CASE(S) Stand 1) Dead + Floor Live (b Uniform Loads (plf) Vert: 11-18: Concentrated Loads Vert: 1=-110 2) Dead: Lumber Incret Uniform Loads (plf) Vert: 11-18: Concentrated Loads Vert: 1=-110 2) Dead: Lumber Incret Uniform Loads (plf) Vert: 11-18: Concentrated Loads Vert: 1=-110 2) Continued on page 2	 BOT CHORD 15:17=201(332, 14=1030/2104, 12*15=0/2104, 11=1693/0, 3:15=0/1135, 9:12=0/988, 7:12=-253/0, 5:15=-698/0, 6:12=-511/131 NOTES- Ubbalanced floor live loads have been considered for this design. S are 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. Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss. Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131* X 3*) nails. Strongbacks to be attached to walls at their outer ends or restrained by other means. CAUTION, Do not erect truss backwards. Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 110 lb down at 0-2-4 on top chord. The design/selection of such connection device(s) is the responsibility of others. I in the LOAD CASE(S) Standard Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (pf) Vert: 1=-110(F) 								
Continued on page 2									



Job	Truss	Truss Type	Qty	Ply	10 PRINCE PLACE - FLOOR	
						148477517
28587-28587A	F2	Floor	2	1		
					Job Reference (optional)	
84 Components (Dunn),	Dunn, NC - 28334,		8	.520 s Aug	27 2021 MiTek Industries, Inc. Thu Oct 21 15:21:44 2021	Page 2

ID:minGCUqRdNuhOuAvJVJ87Dz_qbA-hoWVdBAfHquyPVAyJ?6nFhso95g79dtC7APRs_yR92b

3) 1st Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 11-18=-10, 1-2=-100, 2-10=-20 Concentrated Loads (lb) Vert: 1=-110(F) 4) 2nd Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 11-18=-10, 1-2=-20, 2-10=-100 Concentrated Loads (lb) Vert: 1=-110(F) 5) 3rd unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 11-18=-10, 1-2=-100, 2-10=-20 Concentrated Loads (lb) Vert: 1=-110(F) 6) 4th unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 11-18=-10, 1-2=-20, 2-10=-100 Concentrated Loads (lb) Vert: 1=-110(F)

7) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 11-18=-10, 1-2=-20, 2-6=-100, 6-10=-20

Concentrated Loads (lb) Vert: 1=-110(F)

LOAD CASE(S) Standard

 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 11-18=-10, 1-2=-100, 2-5=-20, 5-10=-100 Concentrated Loads (lb)

Vert: 1=-110(F)

9) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 11-18=-10, 1-2=-20, 2-6=-100, 6-10=-20

Concentrated Loads (lb)

Vert: 1=-110(F)

10) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 11-18=-10, 1-2=-100, 2-5=-20, 5-10=-100

Concentrated Loads (lb) Vert: 1=-110(F)





13-1-8							
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 0.37 BC 0.65 WB 0.39 Matrix-S	DEFL. in Vert(LL) -0.11 Vert(CT) -0.15 Horz(CT) 0.03	n (loc) I/defl L/d 11-12 >999 480 11-12 >999 360 ; 9 n/a n/a	PLATES MT20 Weight: 68 lb	GRIP 197/144 FT = 20%F, 11%E	
LUMBER- TOP CHORD 22 BOT CHORD 22 WEBS 25	4 SP No.2 or 2x4 SPF No.2(flat) 4 SP No.2 or 2x4 SPF No.2(flat) 4 SP No.3(flat)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dire except end verticals. Rigid ceiling directly applied o	ectly applied or 6-0-0 r 10-0-0 oc bracing.	oc purlins,	

12-1-0

REACTIONS. (size) 14=0-3-8, 9=Mechanical Max Grav 14=708(LC 1), 9=708(LC 1)

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

TOP CHORD 2-3=-2072/0, 3-4=-2072/0, 4-5=-2159/0, 5-6=-2072/0, 6-7=-2072/0

BOT CHORD 13-14=0/1367, 12-13=0/2159, 11-12=0/2159, 10-11=0/2159, 9-10=0/1367

WEBS 2-14=-1490/0, 7-9=-1490/0, 2-13=0/771, 7-10=0/771, 4-13=-360/125, 5-10=-360/125

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.







		6-7-4			9-1-12
Plate Offsets (X,Y)	[2:0-1-8,Edge], [3:0-1-8,Edge]	0-7-4			2-0-0
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 0.49 BC 0.27 WB 0.20 Matrix-S	DEFL. in Vert(LL) -0.02 Vert(CT) -0.03 Horz(CT) 0.01	(loc) I/defl L/d 9-10 >999 480 9-10 >999 360 6 n/a n/a	PLATES GRIP MT20 197/144 Weight: 49 lb FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF WEBS 2x4 SF REACTIONS. (size Max U Max G	P No.2 or 2x4 SPF No.2(flat) P No.2 or 2x4 SPF No.2(flat) P No.3(flat) e) 10=0-3-8, 6=Mechanical, 7=0-3-8 plift 6=-37(LC 3) rav 10=363(LC 7), 6=136(LC 7), 7=703	b(LC 8)	BRACING- TOP CHORD BOT CHORD	Structural wood sheathin except end verticals. Rigid ceiling directly appl 6-0-0 oc bracing: 6-7.	ig directly applied or 6-0-0 oc purlins, lied or 10-0-0 oc bracing, Except:
FORCES. (lb) - Max. TOP CHORD 2-3=- BOT CHORD 9-10= WEBS 4-7=-	Comp./Max. Ten All forces 250 (lb) o 569/0, 3-4=-54/269 =0/569, 8-9=0/569, 7-8=0/569, 6-7=-269 409/0, 2-10=-617/0, 3-7=-745/0, 4-6=-5	r less except when shown. /54 9/293			
NOTES- 1) Unbalanced floor liv. 2) As requested, plates the responsibility of 3) Refer to girder(s) for 4) Provide mechanical 5) Recommend 2x6 str Strongbacks to be a 6) CAUTION, Do not e 7) Hanger(s) or other or chord. The design/s 8) In the LOAD CASE(LOAD CASE(S) Stand 1) Dead + Floor Live (b Uniform Loads (pf) Vert: 6-10= Concentrated Loads	e loads have been considered for this d s have not been designed to provide for the fabricator to increase plate sizes to truss to truss connections. connection (by others) of truss to bearin ongbacks, on edge, spaced at 10-0-0 of tached to walls at their outer ends or re rect truss backwards. connection device(s) shall be provided s selection of such connection device(s) is S) section, loads applied to the face of t dard valanced): Lumber Increase=1.00, Plate -10, 1-5=-100 (b)	esign. placement tolerances or r account for these factors. ng plate capable of withsta oc and fastened to each tro strained by other means. ufficient to support concer the responsibility of other he truss are noted as fron Increase=1.00	ough handling and erect nding 100 lb uplift at joir uss with 3-10d (0.131" X trated load(s) 152 lb dov s. t (F) or back (B).	ion conditions. It is It(s) 6. 3") nails. vn at 4-2-4 on top	SEAL
REACTIONS. (size Max U Max U Max G FORCES. (lb) - Max. TOP CHORD 2-3=- BOT CHORD 9-10- WEBS 4-7=- NOTES- 1) Unbalanced floor liv. 2) As requested, plates the responsibility of 3) Refer to girder(s) for 4) Provide mechanical 5) Recommend 2x6 str Strongbacks to be a 6) CAUTION, Do not e 7) Hanger(s) or other of chord. The design/s 8) In the LOAD CASE(LOAD CASE(S) Stand 1) Dead + Floor Live (b Uniform Loads (plf) Vert: 6-10= Concentrated Loads	 a) 10=0-3-8, 6=Mechanical, 7=0-3-8 plift 6=-37(LC 3) av 10=363(LC 7), 6=136(LC 7), 7=703 Comp./Max. Ten All forces 250 (lb) or 569/0, 3-4=-54/269 av 10=363(LC 7), 7=80/569, 6-7=-265 av 10=30, 2-10=-617/0, 3-7=-745/0, 4-6=-5 back have been considered for this d s have not been designed to provide for the fabricator to increase plate sizes to truss to truss connections. connection (by others) of truss to bearing ongbacks, on edge, spaced at 10-0-0 c ttached to walls at their outer ends or refrect truss backwards. sonnection device(s) shall be provided s selection of such connection device(s) is S) section, loads applied to the face of t dard valanced): Lumber Increase=1.00, Plate -10, 1-5=-100 (b) (F) 	9(LC 8) r less except when shown. 1/54 9/293 esign. placement tolerances or r account for these factors. Ing plate capable of withstat or and fastened to each tru- strained by other means. ufficient to support concer the responsibility of other he truss are noted as fron Increase=1.00	ough handling and erect nding 100 lb uplift at joir uss with 3-10d (0.131" X trated load(s) 152 lb dow s. t (F) or back (B).	ion conditions. It is tt(s) 6. 3") nails. vn at 4-2-4 on top	H CAROLINE FESSION SEAL 044925







ŀ			12-10-0 12-10-0			
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 0.37 BC 0.63 WB 0.38 Matrix-S	DEFL. ir Vert(LL) -0.10 Vert(CT) -0.14 Horz(CT) 0.03	n (loc) I/defl L/d) 11-12 >999 480 I 11-12 >999 360 B 9 n/a n/a	PLATES MT20 Weight: 67 lb	GRIP 197/144 FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 SI BOT CHORD 2x4 SI WEBS 2x4 SI	^D No.2 or 2x4 SPF No.2(flat) ^D No.2 or 2x4 SPF No.2(flat) ^D No.3(flat)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dire except end verticals. Rigid ceiling directly applied o	ectly applied or 6-0-0 r 10-0-0 oc bracing.	oc purlins,

REACTIONS. (size) 14=Mechanical, 9=Mechanical Max Grav 14=692(LC 1), 9=692(LC 1)

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

TOP CHORD 2-3=-2000/0, 3-4=-2000/0, 4-5=-2062/0, 5-6=-2000/0, 6-7=-2000/0

BOT CHORD 13-14=0/1330, 12-13=0/2062, 11-12=0/2062, 10-11=0/2062, 9-10=0/1330

WEBS 2-14=-1450/0, 7-9=-1450/0, 2-13=0/732, 7-10=0/732, 4-13=-340/146, 5-10=-340/146

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.







3x6 =

				<u>3-4-0</u> <u>3-4-0</u>					I	
LOADING (ps TCLL 40 TCDL 10 BCLL 0 BCDL 5	sf)).0).0).0).0 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr NC Code IRC2015/TPI2014	0 CSI. 0 TC 0.16 0 BC 0.13 0 WB 0.04 Matrix-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	in 0.00 -0.01 0.00	(loc) 5 4-5 4	l/defl **** >999 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 20 lb	GRIP 197/144 FT = 20%F, 11%E
LUMBER- TOP CHORD BOT CHORD WEBS	2x4 SP 2x4 SP 2x4 SP	No.2 or 2x4 SPF No.2(flat) No.2 or 2x4 SPF No.2(flat) No.3(flat)		BRACING- TOP CHORI BOT CHORI	с С	Structu except Rigid c	ral wood end vert eiling dir	l sheathing d icals. ectly applied	irectly applied or 3-4-0 or 10-0-0 oc bracing.	oc purlins,

REACTIONS. (size) 5=Mechanical, 4=Mechanical Max Grav 5=172(LC 1), 4=172(LC 1)

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

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

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

- Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 4 lb down at 1-10-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 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=-100 Concentrated Loads (lb) Vert: 2=-4(B)







LOADING	i (psf) 40.0	SPACING- Plate Grip DOL	2-0-0 1.00	CSI. TC	0.34	DEFL. Vert(LL)	in 0.00	(loc) 5	l/defl	L/d 480	PLATES MT20	GRIP 197/144
TCDL	10.0	Lumber DOL Rep Stress Incr	1.00 YES	BC WB	0.04	Vert(CT) Horz(CT)	-0.00	5-6 4	>999 n/a	360 n/a		
BCDL	5.0	Code IRC2015/T	PI2014	Matrix	«-Р		0.00		n/u	1.70	Weight: 29 lb	FT = 20%F, 11%E
						BRACING						

 TOP CHORD
 2x4 SP No.2 or 2x4 SPF No.2(flat)

 BOT CHORD
 2x4 SP No.2 or 2x4 SPF No.2(flat)

 WEBS
 2x4 SP No.3(flat)

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 4-9-12 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=Mechanical, 4=Mechanical, 5=0-3-8 Max Grav 6=115(LC 3), 4=102(LC 4), 5=303(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 2-5=-274/0

NOTES-

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

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

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

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

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

5) CAUTION, Do not erect truss backwards.







—	<u>2-10-4</u> 2-10-4			7-8-0 4-9-12			
Plate Offsets (X,Y)	[12:0-1-8,0-0-12]						
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 0.13 BC 0.11 WB 0.08 Matrix-P	DEFL. in Vert(LL) -0.01 Vert(CT) -0.01 Horz(CT) 0.00	(loc) l/defl L/d 8 >999 480 8 >999 360 7 n/a n/a	PLATES MT20 Weight: 43 lb	GRIP 197/144 FT = 20%F, 11%E	
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP WEBS 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	ectly applied or 6-0-0 or 10-0-0 oc bracing.	oc purlins,	
REACTIONS. (size) 11=Mechanical, 7=0-3-8, 10=0-3-8 Max Grav 11=177(LC 8), 7=245(LC 8), 10=461(LC 7)							
FORCES. (lb) - Max.	Comp./Max. Ten All forces 250 (lb) or	less except when shown.					

TOP CHORD 4-5=-265/0

BOT CHORD 9-10=0/265, 8-9=0/265, 7-8=0/265 WEBS

4-10=-328/0, 5-7=-311/0

NOTES-

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

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

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

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

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

5) CAUTION, Do not erect truss backwards.







	1	3-1-12		1		0-7-4				1	9-1-12	1
	1	3-1-12		I		3-5-8					2-6-8	
LOADING (pr TCLL 40 TCDL 10 BCLL 0	sf)).0).0).0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.00 1.00 NO	CSI. TC BC WB	0.56 0.44 0.69	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.03 -0.05 0.01	(loc) 9 9 8	l/defl >999 >999 n/a	L/d 480 360 n/a	PLATES MT20	GRIP 197/144
BCDL 5	5.0	Code IRC2015/TPI2	2014	Matri	x-S						Weight: 51 lb	FT = 20%F, 11%E
		•				DDACING						

LUMBER-

 TOP CHORD
 2x4 SP No.2 or 2x4 SPF No.2(flat)

 BOT CHORD
 2x4 SP No.2 or 2x4 SPF No.2(flat)

 WEBS
 2x4 SP No.3(flat)

BRACING-TOP CHORD BOT CHORD

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

- REACTIONS. (size) 10=0-3-8, 7=Mechanical, 8=0-3-8 Max Uplift 7=-296(LC 3) Max Grav 10=906(LC 3), 8=1568(LC 1)
- FORCES. (Ib) Max. Comp./Max. Ten. All forces 250 (Ib) or less except when shown.
- TOP CHORD 2-3=-2153/0, 3-4=-2153/0, 4-5=0/729
- BOT CHORD 9-10=0/1224, 8-9=0/935, 7-8=-729/0
- WEBS 3-9=-1384/0, 5-8=-564/0, 5-7=0/794, 2-10=-1477/0, 2-9=0/1169, 4-9=0/1449, 4-8=-1934/0

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.
- 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) 7=296.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1292 lb down at 3-1-12, and 152 lb down at 4-2-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) 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=-1212(F) 11=-72(B)



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

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			<u>6-9-8</u> 6-9-8			
Plate Offsets (X,Y)	[2:0-1-8,Edge], [3:0-1-8,Edge]					
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 0.41 BC 0.30 WB 0.16 Matrix-S	DEFL. ir Vert(LL) -0.03 Vert(CT) -0.04 Horz(CT) 0.01	i (loc) l/defl L/d 7-8 >999 480 7-8 >999 360 5 n/a n/a	PLATES MT20 Weight: 36 lb	GRIP 197/144 FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP WEBS 2x4 SP REACTIONS. (size Max G	No.2 or 2x4 SPF No.2(flat) No.2 or 2x4 SPF No.2(flat) No.3(flat) e) 8=Mechanical, 5=Mechanical rav 8=360(LC 1), 5=360(LC 1)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dir except end verticals. Rigid ceiling directly applied o	ectly applied or 6-0-0 or 10-0-0 oc bracing.	oc purlins,
FORCES. (lb) - Max. TOP CHORD 2-3=-	Comp./Max. Ten All forces 250 (lb) or 576/0	less except when shown.				

BOT CHORD 7-8=0/576, 6-7=0/576, 5-6=0/576 WEBS 2-8=-626/0, 3-5=-626/0

NOTES-

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

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

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

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

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







ŀ			10-3-0 10-3-0			
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 0.32 BC 0.44 WB 0.29 Matrix-S	DEFL. ir Vert(LL) -0.07 Vert(CT) -0.10 Horz(CT) 0.02	n (loc) I/defl L/d 7 7-8 >999 480 9 9-10 >999 360 2 7 n/a n/a	PLATES MT20 Weight: 52 lb	GRIP 197/144 FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 S BOT CHORD 2x4 S WEBS 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 dir except end verticals. Rigid ceiling directly applied o	ectly applied or 6-0-0 or 10-0-0 oc bracing.	oc purlins,

REACTIONS. (size) 10=0-3-0, 7=Mechanical Max Grav 10=550(LC 1), 7=550(LC 1)

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

TOP CHORD 2-3=-1314/0, 3-4=-1314/0, 4-5=-1314/0

BOT CHORD 9-10=0/998, 8-9=0/1314, 7-8=0/998

WEBS 2-10=-1087/0, 5-7=-1087/0, 2-9=0/461, 5-8=0/461

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.





Job	Truss	Truss Type	Qt	ty	Ply	10 PRINCE PLACE - FLOOR	
					-		148477527
28587-285874	F8G		1		1		
20307-20307A	100		1		'		
						Job Reference (optional)	
84 Components (Dunn),	Dunn, NC - 28334,			8.5	520 s Aug	27 2021 MiTek Industries, Inc. Thu	Oct 21 15:21:50 2021 Page 1
			ID:minGCUaR	RdNuhO	uAvJVJ87	Dz abA-WvumtFEPsaf57Qd6fGDBU	Jv6vbWmlZJ24V6sl3dvR92V
						=1	· · · · · · · · · · · · · · · · · · ·
L	1-9-2						
							Scale = 1:14.2
2.0		eue —	auc. 11			<u></u>	24C 11
3x6		0x0 —	3X0			— axa	3X0
1	,		2			4	F
I	4		3			4	5



Plate Offsets (X,Y)	[6:Edge,0-1-8], [8:Edge,0-1-8]						
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrNOCode IRC2015/TPI2014	CSI. TC 0.20 BC 0.83 WB 0.69 Matrix-P	DEFL. in Vert(LL) -0.05 Vert(CT) -0.08 Horz(CT) 0.03	(loc) l/defl 7 >999 7 >999 6 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 52 lb	GRIP 197/144 FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP WEBS 2x4 SP REACTIONS. (size	No.2 or 2x4 SPF No.2(flat) No.2 or 2x4 SPF No.2(flat) No.3(flat) 8=Mechanical, 6=0-3-8 rov 8=1336(I_C_1), 6=1426(I_C_1)		BRACING- TOP CHORD BOT CHORD	Structural wood sh except end vertica Rigid ceiling direct	neathing dire Ils. tly applied o	ectly applied or 6-0-0 r 10-0-0 oc bracing.	oc purlins,
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-3299/0, 3-4=-3299/0 BOT CHORD 7-8=0/2340, 6-7=0/2505 WEBS 2-8=-2636/0, 2-7=0/1089, 3-7=-903/0, 4-7=0/902, 4-6=-2822/0							
 NOTES- 1) As requested, plates the responsibility of t 2) Refer to girder(s) for 3) Recommend 2x6 strn Strongbacks to be at 4) Hanger(s) or other c down at 1-10-4, 450 chord. The design/s 5) In the LOAD CASE(s) 	have not been designed to provide for the fabricator to increase plate sizes to a truss to truss connections. ongbacks, on edge, spaced at 10-0-0 o ttached to walls at their outer ends or re onnection device(s) shall be provided s 0 lb down at 3-10-4, 260 lb down at 3-1 election of such connection device(s) is S) section, loads applied to the face of th	placement tolerances or r account for these factors. c and fastened to each tru strained by other means. ifficient to support concen 0-4, and 450 lb down at 5 the responsibility of other ne truss are noted as front	ough handling and erecti uss with 3-10d (0.131" X trated load(s) 450 lb dov 5-10-4, and 260 lb down s. t (F) or back (B).	on conditions. It is 3") nails. /n at 1-10-4, 77 lb at 5-10-4 on top			
LOAD CASE(S) Stand	dard					C	AD

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

Uniform Loads (plf)

1-2-0

Vert: 6-8=-10, 1-5=-100 Concentrated Loads (lb)

Vert: 2=-527(F=-77, B=-450) 3=-710(F=-260, B=-450) 4=-710(F=-260, B=-450)



1-2-0

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- F										13-4-0		
				12-4-12							6-11-4	1
Plate	Offsets (X	<,Y)	[1:Edge,0-0-12], [10:0-1-8,E	dge], [11:0-1-8,Ed	ge], [23:0-1-8,0-0-1	2]						
LOAD TCLL TCDL BCLL BCDL	ING (psf 40.0 10.0 0.0 5.0	i) D D D D	SPACING- 2 Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/TPI20	2-0-0 1.00 1.00 YES 014	CSI. TC 0.52 BC 0.61 WB 0.40 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.09 -0.12 0.03	(loc) 20 20 13	l/defl >999 >999 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 98 lb	GRIP 197/144 FT = 20%F, 11%E
LUME TOP (BOT (WEBS	ER- CHORD CHORD	2x4 SF 2x4 SF 2x4 SF	 No.2 or 2x4 SPF No.2(flat) No.2 or 2x4 SPF No.2(flat) No.3(flat) 			BRACING- TOP CHOR BOT CHOR	RD RD	Structu except Rigid c	ral wood end verti eiling dire	sheathing dir icals. ectly applied c	ectly applied or 6-0-0 or 6-0-0 oc bracing.	oc purlins,
REAC	TIONS.	(siz Max G	e) 22=0-3-0, 16=0-3-8, 13= Grav 22=642(LC 10), 16=117	=Mechanical '9(LC 9), 13=347(L	_C 4)							

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

 TOP CHORD
 2-3=-1806/0, 3-4=-1806/0, 4-5=-1807/0, 5-6=-1731/0, 6-7=-1731/0, 7-9=0/627, 9-10=0/627, 10-11=-519/69

 BOT CHORD
 21-22=0/1228, 20-21=0/1807, 19-20=0/1807, 18-19=0/1807, 16-18=0/1041, 15-16=-69/519, 14-15=-69/519, 13-14=-69/519

 WEBS
 2-22=-1332/0, 7-16=-1474/0, 2-21=0/632, 7-18=0/840, 5-18=-402/81, 10-16=-871/0, 11-13=-563/75

NOTES-

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

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

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

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

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

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

12-1-12

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

6) CAUTION, Do not erect truss backwards.



10-1-0





				16-9-0			
Plate Offsets ()	X,Y)	[5:0-1-8,Edge], [14:0-1-8,Edge]					
LOADING (psi TCLL 40.1 TCDL 10.1 BCLL 0.1 BCDL 5.1	sf) .0 .0 .0 .0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.77 BC 0.99 WB 0.61 Matrix-S	DEFL. in Vert(LL) -0.26 Vert(CT) -0.36 Horz(CT) 0.06	(loc) l/defl L/d 14-15 >765 480 14-15 >554 360 11 n/a n/a	PLATES MT20 M18SHS Weight: 84 lb	GRIP 197/144 197/144 FT = 20%F, 11%E
LUMBER- TOP CHORD BOT CHORD WEBS	2x4 SP 2x4 SP 11-13∷ 2x4 SP	P No.2 or 2x4 SPF No.2(flat) P No.1(flat) *Except* 2x4 SP 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 c 2-2-0 oc bracing: 12-14.	ectly applied or 5-3-4 or 10-0-0 oc bracing,	oc purlins, Except:

16-9-0

REACTIONS. (size) 17=Mechanical, 11=Mechanical Max Grav 17=907(LC 1), 11=907(LC 1)

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

2-3--290/0, 3-5--2990/0, 5-6--3557/0, 7-8--2991/0, 8-9--2991/0 16-17=0/1821, 15-16=0/3557, 14-15=0/3557, 12-14=0/3539, 11-12=0/1820 TOP CHORD

BOT CHORD

2-17=-1984/0, 9-11=-1984/0, 2-16=0/1280, 3-16=-267/2, 9-12=0/1281, 5-16=-845/0, WEBS

7-12=-666/0, 7-14=-335/518, 6-14=-389/244

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 13 = 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.







	3-9-4		16	-9-0	
Plate Offsets (X Y)	3-9-4 [6:0-1-8 Edge] [19:Edge 0-1-8]		12-1	11-12	
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 NO Code IRC2015/TPI2014	CSI. TC 0.75 BC 0.89 WB 0.81 Matrix-S	DEFL. in Vert(LL) -0.33 Vert(CT) -0.46 Horz(CT) 0.07	i (loc) l/defl L/d 15-16 >594 480 15-16 >429 360 12 n/a n/a	PLATES GRIP MT20 197/144 MT18HS 244/190 Weight: 93 lb FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 SF 9-11: 2 BOT CHORD 2x4 SF WEBS 2x4 SF	P DSS(flat) *Except* 2x4 SP No.2 or 2x4 SPF No.2(flat) P DSS(flat) P No.3(flat)	1	BRACING- TOP CHORD BOT CHORD	Structural wood sheathing c except end verticals. Rigid ceiling directly applied	directly applied or 5-4-6 oc purlins,
REACTIONS. (siz	e) 19=0-3-8, 12=Mechanical				
FORCES. (lb) - Max. TOP CHORD 2:3= 8-10 BOT CHORD 18-1 WEBS 3-18 5-16	Comp./Max. Ten All forces 250 (lb) or -4923/0, 3-4=-4923/0, 4-5=-5174/0, 5-6= =-3832/0 9=0/2635, 16-18=0/5324, 15-16=0/4591, =-1095/0, 2-19=-3035/0, 2-18=0/2635, 4 =-402/0, 10-13=0/1702, 6-16=0/1063, 7-	less except when shown -5174/0, 6-7=-4591/0, 7-8 , 14-15=0/4591, 13-14=0/ -18=-437/0, 10-12=-2481, 13=-1303/0, 6-15=-431/0,	3=-3832/0, 4591, 12-13=0/2277 /0, 4-16=-349/0, , 7-14=0/412		
NOTES- 1) Unbalanced floor liv 2) As requested, plate: the responsibility of 3) All plates are MT20 4) The Fabrication Tol 5) Refer to girder(s) fo 6) Recommend 2x6 st Strongbacks to be a 7) CAUTION, Do not e 8) Hanger(s) or other of chord. The design/ 9) In the LOAD CASE(LOAD CASE(S) Stan 1) Dead + Floor Live (I) Uniform Loads (plf) Vert: 12-19 Concentrated Lead	e loads have been considered for this de s have not been designed to provide for the fabricator to increase plate sizes to a plates unless otherwise indicated. erance at joint 17 = 11% r truss to truss connections. rongbacks, on edge, spaced at 10-0-0 c tttached to walls at their outer ends or re rect truss backwards. connection device(s) shall be provided su selection of such connection device(s) is (S) section, loads applied to the face of the dard balanced): Lumber Increase=1.00, Plate	esign. placement tolerances or r account for these factors. oc and fastened to each tr strained by other means. ufficient to support concer the responsibility of other he truss are noted as from Increase=1.00	rough handling and erect uss with 3-10d (0.131" X ntrated load(s) 970 lb dow rs. t (F) or back (B).	ion conditions. It is 3") nails. wn at 3-9-4 on top	SEAL 044925

Vert: 3=-890(F)







L			17-0-0			
I			17-0-0			I
Plate Offsets (X,Y) [4:0-1-8,Edge], [18:0-1-8,0-0-12]					
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 0.87 BC 0.81 WB 0.63 Matrix-S	DEFL. ir Vert(LL) -0.27 Vert(CT) -0.37 Horz(CT) 0.06	l (loc) l/defl L/d 14 >740 480 14-15 >536 360 11 n/a n/a	PLATES MT20 M18SHS Weight: 84 lb	GRIP 197/144 244/190 FT = 20%F, 11%E
LUMBER- TOP CHORD 22 BOT CHORD 22 WEBS 22	4 SP No.2 or 2x4 SPF No.2(flat) 4 SP No.1(flat) 4 SP No.3(flat)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing direct except end verticals. Rigid ceiling directly applied or	ctly applied or 2-2-0 10-0-0 oc bracing.	oc purlins,

REACTIONS. (size) 17=Mechanical, 11=0-3-0

Max Grav 17=921(LC 1), 11=915(LC 1)

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

TOP CHORD 2-3=-3050/0, 3-4=-3050/0, 4-5=-3660/0, 5-6=-3660/0, 6-7=-3054/0, 7-9=-3054/0

BOT CHORD 16-17=0/1852, 15-16=0/3660, 14-15=0/3660, 12-14=0/3629, 11-12=0/1850 WEBS

2-17=-2018/0, 9-11=-2010/0, 2-16=0/1311, 3-16=-267/9, 9-12=0/1317, 4-16=-897/0,

6-12=-678/0, 6-14=-285/499, 5-14=-349/183

NOTES-

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

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

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

3) All plates are MT20 plates unless otherwise indicated.

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

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

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

6) CAUTION, Do not erect truss backwards.





Job	Truss	Truss Type	Qty	Ply	10 PRINCE PLACE - FLOOR	
					148	477532
28587-28587A	KW1	Floor Supported Gable	1	1		
					Job Reference (optional)	
84 Components (Dunn).	Dunn, NC - 28334.		8	.520 s Aud	27 2021 MiTek Industries, Inc. Thu Oct 21 15:21:52 2021 Page	ae 1

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Oct 21 15:21:52 2021 Page 1 ID:minGCUgRdNuhOuAvJVJ87Dz_gbA-SL?WIwGgOHvpMknUnhFfZNCHxJez1NoNzQLs8WyR92T

Scale = 1:28.5



17-1-12 17-1-12											
LOADING (pr TCLL 40 TCDL 10 BCLL 0 BCDL 5	osf) 0.0 0.0 0.0 5.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/TPl2	2-0-0 CSI . 1.00 TC 1.00 BC YES WB 2014 Mat	0.08 0.01 0.03 rix-R	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 16	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 73 lb	GRIP 197/144 FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat) BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat) WEBS 2x4 SP No.3(flat) OTHERS 2x4 SP No.3(flat)					BRACING- TOP CHOR BOT CHOR	D D	Structur except Rigid ce	ral wood end verti eiling dire	sheathing dire cals. ectly applied o	ectly applied or 6-0-0 or 10-0-0 oc bracing.	oc purlins,

REACTIONS. All bearings 17-1-12.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 30, 16, 29, 28, 27, 26, 25, 23, 22, 21, 20, 19, 18, 17

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) All plates are 1.5x4 MT20 unless otherwise indicated.

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) Non Standard bearing condition. Review required.

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.







			8-0-0			
Ι			8-0-0			
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 YES	CSI. TC 0.08 BC 0.01 WB 0.03	DEFL. in Vert(LL) n/a Vert(CT) n/a Horz(CT) 0.00	(loc) l/defl L/d - n/a 999 - n/a 999 8 n/a n/a	PLATES MT20	GRIP 197/144
BCDL 5.0	Code IRC2015/TPI2014	Matrix-R			Weight: 36 lb	FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 S BOT CHORD 2x4 S WEBS 2x4 S OTHERS 2x4 S	P No.2 or 2x4 SPF No.2(flat) P No.2 or 2x4 SPF No.2(flat) P No.3(flat) P No.3(flat)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dir except end verticals. Rigid ceiling directly applied o	rectly applied or 6-0-0 or 10-0-0 oc bracing.	oc purlins,

REACTIONS. All bearings 8-0-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 14, 8, 13, 12, 11, 10, 9

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

NOTES-

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.

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.



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



LUMBER-			BRACING-		
TOP CHORD	2x4 SP	No.2 or 2x4 SPF No.2(flat)	TOP CHORD	Structural wood sheathing dir	ectly applied or 4-8-0 oc purlins,
BOT CHORD	2x4 SP	No.2 or 2x4 SPF No.2(flat)		except end verticals.	
WEBS	2x4 SP	No.3(flat)	BOT CHORD	Rigid ceiling directly applied	or 10-0-0 oc bracing.
OTHERS	2x4 SP	No.3(flat)			-

REACTIONS. All bearings 4-8-0.

5.0

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

Code IRC2015/TPI2014

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

NOTES-

BCDL

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

Matrix-R

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.



FT = 20%F. 11%E

Weight: 23 lb



	1							
Job	Truss	Truss Type	Qt	iy F	Ply	10 PRINCE PLACE -	FLOOR	149477525
28587-28587A	KW9	GABLE	1		1			140477535
						Job Reference (option	nal)	
84 Components (Dunn),	Dunn, NC - 28334,			8.52 2dNubOu	20 s Aug	27 2021 MiTek Indust	ries, Inc. Thu Oct 21 1	5:22:05 2021 Page 1
			iD.minGCOqr	KainunOu	IAVJVJO		112QKH_1W_ID7EV024	warulyx?25GyR92G
								Scale: 3/8"=1'
						3x6 FP=		3x3
1 2	3 4 5	6 7	8 9	10	D	11 12 13	14 15	16 17
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								-2-0
					,			
				******	******			
34 33	32 31 30	29 28 27	26 25	24	4	23 22	21 20	19 18
3x3		3x6 FP =						3x3
1-4-0 2-8-	0 4-0-0 5-4-0	6-8-0 8-0-0 9-4-0	, 10-8-0 , 1	12-0-0	13-4-	0 14-8-0 16	6-0-0 17-4-0	18-8-0 19-4-0
1-4-0 1-4-	0 1-4-0 1-4-0	1-4-0 1-4-0 1-4-0	1-4-0	1-4-0	1-4-0) 1-4-0 1	-4-0 1-4-0	1-4-0 0-8-0
Plate Offsets (X,Y) [1:	Edge,0-0-12], [35:0-1-8,0-0-1	2]	1					
LOADING (psf)	SPACING- 2-0-	csi.	DEFL.	in	(loc)	l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.0	D TC 0.08	Vert(LL)	n/a	-	n/a 999	MT20	197/144
TCDL 10.0	Lumber DOL 1.0	BC 0.02	Vert(CT)	n/a	-	n/a 999		
BCLL 0.0	Rep Stress Incr YE	S WB 0.03	Horz(CT)	0.00	18	n/a n/a	Wajahti 92 lh	ET - 200/E 110/E
BCDL 5.0		Matrix-R					weight: 82 lb	FT = 20%F, TT%E
LUMBER-			BRACING-					
TOP CHORD 2x4 SP No	o.2 or 2x4 SPF No.2(flat)		TOP CHOR	RD S	Structura	al wood sheathing dir	ectly applied or 6-0-0	oc purlins,
BOT CHORD 2x4 SP No	0.2 or 2x4 SPF No.2(flat)				except e	nd verticals.		
OTHERS 2x4 SP NO	o.3(flat)		BUICHUR		rigia ce	ining directly applied (TO-O-O OC DIACING.	
	0.0(1100)							
REACTIONS. All beari	ngs 19-4-0.							
(lb) - Max Grav	 All reactions 250 lb or less 	at joint(s) 34, 18, 33, 32, 31, 30,	28, 27, 26, 25, 24	, 23, 22,	21, 20,			

19

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.





Job	Truss	Truss Type	Qty	Ply	10 PRINCE PLACE - FLO	OR		
							ļ	148477536
28587-28587A	KW11	Floor Supported Gable	1	1				
					Job Reference (optional)			
84 Components (Dunn),	Dunn, NC - 28334,		8	.520 s Aug	27 2021 Millek Industries,	Inc. Thu Oct 21 15	21:53 2021	Page 1
		ID:minGCU0	RanunOu/	AVJVJ87DZ	_qbA-wXZVVVGGI9b1g_uM	nKOmu6bkSgj_Bm	q2XB45Qgyy	R925
								8 ₁ 1_0
							Sc	ale = 1:28.3
3x3		3x6 FP =						
1 2	3 4	5 6 7 8 9		10	11 12	13	14 15	5
				6		6		a i
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ЧШ Н	H H			Н			H I	÷
								弁
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	*****		******		*****		$\bowtie$
30 29	28 27	26 25 24 2	3 22	21	20 19	18	17 1	6
3x3			3x6 FP	=			3	x3 =
							-	-

L					17	-0-0						
17-0-0 '										I		
Plate Offsets (X	(,Y) [31	:0-1-8,0-0-12]										
LOADING (psf TCLL 40.0 TCDL 10.0 BCLL 0.0	F) D D D	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.00 1.00 YES	CSI. TC BC WB	0.08 0.01 0.03	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 16	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	<b>GRIP</b> 197/144
BCDL 5.0	0	Code IRC2015/TP	12014	Matrix	-R						Weight: 72 lb	FT = 20%F, 11%E
LUMBER-         TOP CHORD       2x4 SP No.2 or 2x4 SPF No.2(flat)         BOT CHORD       2x4 SP No.2 or 2x4 SPF No.2(flat)						BRACING- TOP CHOR	2D	Structur except e	al wood	sheathing dire	ctly applied or 6-0-0	oc purlins,
WEBS	2x4 SP No	o.3(flat)				BOT CHOR	RD	Rigid ce	iling dire	ectly applied or	10-0-0 oc bracing.	

2x4 SP No.3(flat) WEBS OTHERS 2x4 SP No.3(flat) Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS. All bearings 17-0-0.

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

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

### NOTES-

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

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

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

3) Gable requires continuous bottom chord bearing.

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

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

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

7) CAUTION, Do not erect truss backwards.



818 Soundside Road Edenton, NC 27932

