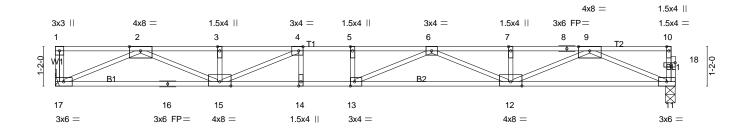
Job	Truss	Truss Type	Qty	Ply	WELLONS - BREEDEN Crawl
2000555-2000555A	F1	Floor	10	1	Job Reference (optional)

8.400 s Apr 7 2020 MiTek Industries, Inc. Mon Sep 21 09:25:35 2020 Page 1 ID:qVyPb7bITNTQeBoz4CnhCwycNrj-uQOSkb87RieJullmlWxRQJ?AmdptkP4xNrAVvrybT2k

2-3-6 1-4-14 0-11-8

Scale = 1:34.1



						18-4-8					
						18-4-8					ı
Plate Of	fsets (X,Y)-	[4:0-1-8,Edge], [13:0	)-1-8,Edge]	, [18:0-1-8,	0-0-12]						
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.95	Vert(LL)	-0.39 12-13	>561	480	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.58	Vert(CT)	-0.55 12-13	>397	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.07 11	n/a	n/a		
BCDL	5.0	Code IRC2015/T	PI2014	Matri	k-S					Weight: 91 lb	FT = 20%F, 119

LUMBER-**BRACING-**

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

2x4 SP No.3(flat)

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 17=997/Mechanical, 11=991/0-3-8 (min. 0-1-8)

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

2-3=-3375/0, 3-4=-3375/0, 4-5=-4258/0, 5-6=-4258/0, 6-7=-3400/0, 7-8=-3400/0, 8-9=-3400/0 16-17=0/2024, 15-16=0/2024, 14-15=0/4258, 13-14=0/4258, 12-13=0/4150, 11-12=0/2033 TOP CHORD **BOT CHORD**  $9-11=-2209/0,\ 2-17=-2206/0,\ 9-12=0/1497,\ 2-15=0/1478,\ 3-15=-251/22,\ 6-12=-820/0,\ 4-15=-1152/0,\ 4-152/0,\ 4-152/0,\ 4-152/0,\ 4-152/0,\ 4-152/0,\ 4-152/0,\ 4-152/0$ **WEBS** 

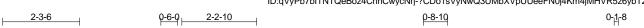
6-13=-246/543

#### NOTES-

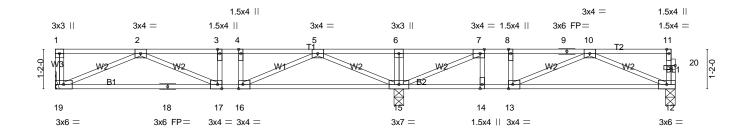
- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 4) Recommend 2x6 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.

Job	Truss	Truss Type	Qty	Ply	WELLONS - BREEDEN Crawl
2000555-2000555A	F1A	Floor	1	1	Job Reference (optional)
84 Components, Dunn, NC 2	28334				Apr 7 2020 MiTek Industries, Inc. Mon Sep 21 09:26:05 2020 Page 1

ID:qVyPb7bITNTQeBoz4CnhCwycNrj-?CDo1sVyNwQ3UMbXVpUUeeFN0j4Km4jMHVR5z6ybT2G



Scale = 1:34.1



	10-2-4		1	18-4-8					
	10-2-4		1	8-2-4		<u> </u>			
Plate Offsets (X,Y) [7:0-1-8,Edge], [13:0-1-8,Edge], [16:0-1-8,Edge], [17:0-1-8,Edge], [20:0-1-8,0-0-12]									
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	TC 0.58 V BC 0.49 V	EFL. in (loc) ert(LL) -0.08 12-13 ert(CT) -0.14 12-13 orz(CT) 0.02 12			<b>GRIP</b> 197/144			
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S	012(C1) 0.02 12	11/4 11/4	Weight: 93 lb	FT = 20%F, 119			

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat) TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat) except end verticals.

2x4 SP No.3(flat) **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) 19=490/Mechanical, 12=358/0-3-8 (min. 0-1-8), 15=1140/0-3-8 (min. 0-1-8)

Max Grav 19=504(LC 10), 12=404(LC 4), 15=1140(LC 1)

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

TOP CHORD
BOT CHORD
18-19=0/897, 17-18=0/897, 16-17=0/1129, 15-16=0/644, 14-15=-91/659, 13-14=-91/659, 12-13=0/682

WEBS  $6-15 = -250/0, \ 2-19 = -978/0, \ 5-15 = -1195/0, \ 2-17 = 0/299, \ 5-16 = 0/590, \ 10-12 = -737/0, \ 7-15 = -1069/0$ 

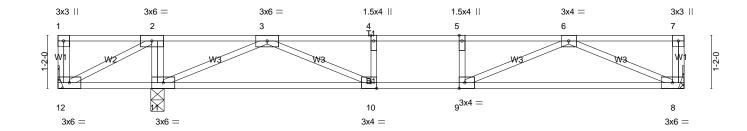
#### NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.

Job Tru	uss	Truss Type	Qty	Ply	WELLONS - BREEDEN Crawl
2000555-2000555A F2	F	Floor	6	1	
84 Components Dunn NC 2833					Job Reference (optional)

B.400 \$ Apr 7 2020 Mit ek industries, inc. Mon Sep 21 09:26:16 2020 Page 1 ID:qVyPb7bITNTQeBoz4CnhCwycNrj-BJNyLcernIpVl3xefdA3bzCGF9o\_r16zpjcAszybT25 1-9-12 2-3-6 1-9-12

Scale = 1:25.3



	4		13-9-0 11-6-12					
Plate Offsets (X,Y)	[9:0-1-8,Edge], [10:0-1-8,	Edge]						
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0- Plate Grip DOL 1.0 Lumber DOL 1.0 Rep Stress Incr YE: Code IRC2015/TPI201	TC 0.51 D BC 0.61 WB 0.40	<b>DEFL.</b> Vert(LL) -0.1 Vert(CT) -0.1 Horz(CT) 0.0	9 8-9	l/defl >999 >713 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 69 lb	<b>GRIP</b> 197/144  FT = 20%F, 115

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

except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 11-12.

Structural wood sheathing directly applied or 6-0-0 oc purlins,

REACTIONS. (lb/size) 12=-199/Mechanical, 8=573/Mechanical, 11=1111/0-3-8 (min. 0-1-8)

Max Uplift12=-306(LC 7)

Max Grav 12=80(LC 8), 8=574(LC 4), 11=1159(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=0/751, 3-4=-1413/0, 4-5=-1413/0, 5-6=-1413/0

BOT CHORD 11-12=-751/0, 10-11=0/699, 9-10=0/1413, 8-9=0/1054

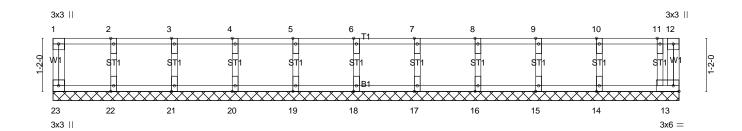
WEBS  $2\text{-}11\text{=-}637/0,\ 2\text{-}12\text{=}0/841,\ 6\text{-}8\text{=-}1148/0,\ 3\text{-}11\text{=-}1366/0,\ 6\text{-}9\text{=}0/411,\ 3\text{-}10\text{=}0/791,\ 4\text{-}10\text{=-}269/0}$ 

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=306.
- 4) This trus is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

Job	Truss	Truss Type	Qty	Ply	WELLONS - BREEDEN Crawl
2000555-2000555A	F2E	Floor Supported Gable	1	1	Job Reference (optional)

8.400 s Apr 7 2020 MTek Industries, Inc. Mon Sep 21 09:26:30 2020 Page 1 ID:qVyPb7bITNTQeBoz4CnhCwycNrj-n?DFHPpdUcZW\_C?KTZRL9wnmNojJ7SJ11u?vL9ybT1t

Scale = 1:25.3



13-9-0 13-9-0									
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 YES Code IRC2015/TPI2014	CSI. TC 0.09 BC 0.03 WB 0.03 Matrix-R	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) n/a - n/a - 0.00 13	l/defl L/d n/a 999 n/a 999 n/a n/a	PLATES GRIP MT20 197/144 Weight: 60 lb FT = 20%F,			

LUMBER-

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

**OTHERS** 2x4 SP No.3(flat)

**BRACING-**TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 13-9-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 23, 13, 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) All plates are 1.5x4 MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- 5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

Job	Truss	Truss Type	Qty	Ply	WELLONS - BREEDEN Crawl
2000555-2000555A	F3	Floor	3	1	Job Reference (optional)

8.400 s Apr 7 2020 MiTek Industries, Inc. Mon Sep 21 09:29:01 2020 Page 1 ID:qVyPb7bITNTQeBoz4CnhCwycNrj-s3rKz1dLw?b5bP2MpneInmXS8g1E?fWGlu4P8vybT?W

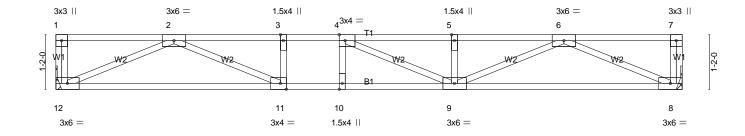
Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 9-10.

except end verticals.

1-1-10 2-3-6

Scale = 1:24.7



			13-5-0	
			13-5-0	
Plate Offsets (X.Y	) [4:0-1-8,Edge], [11:0-1-8,Edge]			
	<del>/                                    </del>	1		
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GF	RIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.61	Vert(LL) -0.16 9-10 >992 480 MT20 19	7/144
TCDL 10.0	Lumber DOL 1.00	BC 0.95	Vert(CT) -0.21 9-10 >753 360	
BCLL 0.0	Rep Stress Incr YES	WB 0.43	Horz(CT) 0.03 8 n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S	Weight: 68 lb	FT = 20%F, 115

LUMBER-BRACING-TOP CHORD

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

2x4 SP No.3(flat)

**BOT CHORD** 

REACTIONS. (lb/size) 12=724/Mechanical, 8=724/Mechanical

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

2-3=-2208/0, 3-4=-2208/0, 4-5=-2180/0, 5-6=-2180/0 11-12=0/1406, 10-11=0/2208, 9-10=0/2208, 8-9=0/1399 TOP CHORD BOT CHORD

 $6-8=-1525/0,\ 2-12=-1532/0,\ 6-9=0/855,\ 2-11=0/900,\ 5-9=-284/0,\ 4-9=-346/211$ WEBS

#### NOTES-

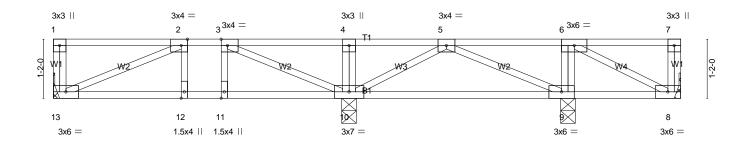
- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 4) Recommend 2x6 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	Qty	Ply	WELLONS - BREEDEN Crawl
2000555-2000555A	F4	Floor	1	1	Job Reference (optional)
84 Components, Dunn, NC	28334	1	ID:qVyPb7bITNTQel		s Apr 7 2020 MiTek Industries, Inc. Mon Sep 21 09:29:11 2020 Page 1 wycNrj-Z_S63SldZ3sgoypHPtp5AsyC0idsLEXk2RVwVKybT?M

1-9-10

Scale = 1:22.8

1-10-4



<u> </u>	5-10-4 5-10-4		11-12 )-1-8	10-2-4 4-2-8		12-5-0	
Plate Offsets (X,Y)	[2:0-1-8,Edge], [3:0-1-8,Edge]	·	J- 1-0	4-2-0		Z-Z-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 0.23 WB 0.14 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) I/defl -0.02 12-13 >999 -0.03 12-13 >999 0.01 9 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 68 lb	<b>GRIP</b> 197/144  FT = 20%F, 115

LUMBER-**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)

TOP CHORD

except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing.

Structural wood sheathing directly applied or 6-0-0 oc purlins,

2x4 SP No.3(flat) **BOT CHORD** 

REACTIONS. All bearings Mechanical except (jt=length) 10=0-3-8, 9=0-3-8.

2-3-6

(lb) - Max Uplift All uplift 100 lb or less at joint(s) 8

Max Grav All reactions 250 lb or less at joint(s) 8 except 13=297(LC 5), 10=597(LC 12), 9=430(LC 11)

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

2-3=-418/0 TOP CHORD

BOT CHORD 12-13=0/418, 11-12=0/418, 10-11=0/418, 9-10=-20/257

WEBS 6-9=-278/0, 2-13=-453/0, 3-10=-522/0, 5-9=-304/23, 5-10=-316/0

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8.
- 4) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.

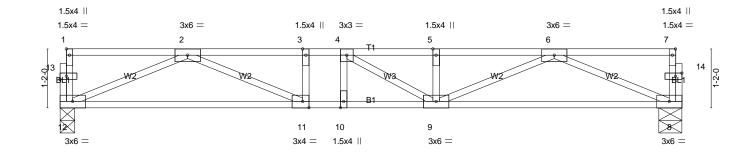
Job	Truss	Truss Type	Qty	Ply	WELLONS - BREEDEN Crawl
2000555-2000555A	F5	Floor	5	1	Job Reference (optional)

8.400 s Apr 7 2020 MiTek Industries, Inc. Mon Sep 21 09:29:26 2020 Page 1 ID:qVyPb7bITNTQeBoz4CnhCwycNrj-dssnDax11glY5FS9nXbcH14nyle?MzmxVHdDXyybT?7





 $0_11_78$ Scale = 1:22.8



12-4-0	
12-4-0	· ·
nel. [13:0-1-8.0-0-12]. [14:0-1-8.0-0-12]	
<u> </u>	
CSI. DEFL. in (loc)	I/defl L/d PLATES GRIP
TC 0.34 Vert(LL) -0.10 9-10	>999 480 MT20 197/144
BC 0.64 Vert(CT) -0.13 9-10	>999 360
WB 0.36 Horz(CT) 0.03 8	n/a n/a
Matrix-S	Weight: 63 lb FT = 20%F, 119
	12-4-0  je], [13:0-1-8,0-0-12], [14:0-1-8,0-0-12]   CSI. DEFL. in (loc)  TC 0.34 Vert(LL) -0.10 9-10 :  BC 0.64 Vert(CT) -0.13 9-10 :  WB 0.36 Horz(CT) 0.03 8

LUMBER-BRACING-TOP CHORD

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

2x4 SP No.3(flat)

**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.

**REACTIONS.** (lb/size) 12=658/0-3-8 (min. 0-1-8), 8=658/0-5-8 (min. 0-1-8)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-3=-1890/0, 3-4=-1890/0, 4-5=-1886/0, 5-6=-1886/0 BOT CHORD 11-12=0/1265, 10-11=0/1890, 9-10=0/1890, 8-9=0/1262

WEBS 6-8=-1369/0, 2-12=-1373/0, 6-9=0/683, 2-11=0/698, 4-9=-255/205

#### NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.

Job	Truss	Truss Type	Qty	Ply	WELLONS - BREEDEN Crawl
2000555-2000555A	F5A	Floor	7	1	lah Deference (antional)
84 Components, Dunn, NC 2	<u> </u> 28334			8.400 s	Job Reference (optional)   Apr 7 2020 MiTek Industries, Inc.   Mon Sep 21 09:30:18 2020   Page 1

ID:qVyPb7bITNTQeBoz4CnhCwycNrj-5t?R7MZenfl9KFR9qSWpO?DhWiTRYXibSNEzLyybT\_J

Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

0-6-0 1-9-6 1-1-11 0-6-0 1-1-11 1-8-0 2-3-6

Scale = 1:22.2

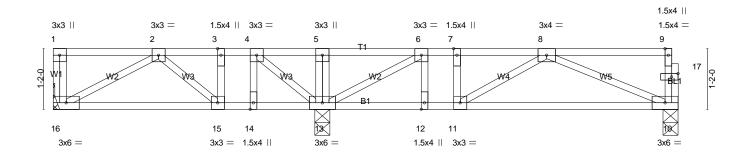


Plate Offsets (X,Y) [17:0-1	5-2-4 5-2-4 I-8 0-0-121	+	12-0-8 6-10-4	
LOADING         (psf)         SPA           TCLL         40.0         Plate           TCDL         10.0         Lum           BCLL         0.0         Rep	ACING- 2-0-0 C e Grip DOL 1.00 T bber DOL 1.00 B c Stress Incr YES W	SI. DEFL. C 0.30 Vert(LL) C 0.30 Vert(CT) VB 0.16 Horz(CT) datrix-S	in (loc) I/defl L/d -0.03 10-11 >999 480 -0.06 10-11 >999 360 0.01 10 n/a n/a	PLATES GRIP MT20 197/144 Weight: 66 lb FT = 20%F, 115

LUMBER-**BRACING-**TOP CHORD

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

2x4 SP No.3(flat) **BOT CHORD** 

REACTIONS. (lb/size) 16=247/Mechanical, 10=338/0-3-8 (min. 0-1-8), 13=705/0-3-8 (min. 0-1-8)

Max Grav 16=269(LC 3), 10=344(LC 7), 13=705(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-272/0, 3-4=-272/0, 6-7=-469/0, 7-8=-469/0

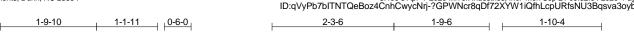
BOT CHORD  $15\text{-}16\text{-}0/324, \, 14\text{-}15\text{=}0/272, \, 13\text{-}14\text{=}0/272, \, 12\text{-}13\text{=}0/469, \, 11\text{-}12\text{=}0/469, \, 10\text{-}11\text{=}0/538}$ 

WEBS 8-10=-580/0, 6-13=-668/0, 2-16=-369/0, 4-13=-430/0

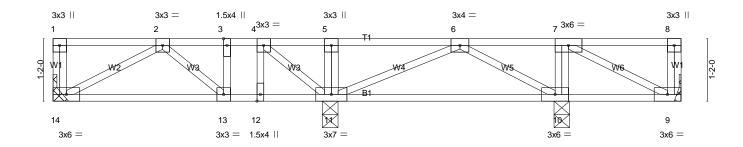
## NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.

Job	Truss	Truss Type	Qty	Ply	WELLONS - BREEDEN Crawl
2000555-2000555A	F5B	Floor	1	1	
					Job Reference (optional)
84 Components, Dunn, NC 2	8334				Apr 7 2020 MiTek Industries, Inc. Mon Sep 21 09:32:04 2020 Page 1
		ID:aVvPb7bIT	NTQeBoz	z4CnhCv	vvcNri-?GPWNcr8gDf72XYW1iQfhLcpURfsNU3Bgsva3ovbSvf



Scale = 1:21.6



<u> </u>	5-2-8	5 <sub>7</sub> 4 <sub>7</sub> 0	9-6-4	11-9-0
	5-2-8	0-1-8	4-2-4	2-2-12
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 0.25 BC 0.19 WB 0.09 Matrix-S	DEFL.         in (loc)         l/defl         L/d           Vert(LL)         -0.01 13-14         >999         480           Vert(CT)         -0.03 13-14         >999         360           Horz(CT)         0.00         10         n/a         n/a	PLATES GRIP MT20 197/144  Weight: 66 lb FT = 20%F, 115

LUMBER-

 LOMBERS

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

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

 WEBS
 2x4 SP No.3(flat)

**BRACING-**TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 9-10.

REACTIONS. All bearings 0-3-8 except (jt=length) 14=Mechanical, 9=Mechanical.

(lb) - Max Uplift All uplift 100 lb or less at joint(s) 9

Max Grav All reactions 250 lb or less at joint(s) 9 except 14=272(LC 5), 10=425(LC 11), 11=528(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-277/0, 3-4=-277/0

BOT CHORD 13-14=0/331, 12-13=0/277, 11-12=0/277

WEBS 7-10=-251/0, 6-10=-307/0, 2-14=-376/0, 4-11=-375/0

#### NOTES-

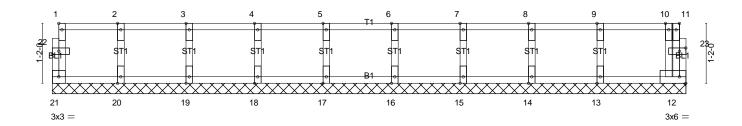
- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9.
- 4) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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	WELLONS - BREEDEN Crawl
2000555-2000555A	F5E	Floor Supported Gable	1	1	Job Reference (optional)

8.400 s Apr 7 2020 MiTek Industries, Inc. Mon Sep 21 09:32:16 2020 Page 1 ID:qVyPb7bITNTQeBoz4CnhCwycNrj-eZ72uj?f?v9QUNSqkEeUAt6v3GpKBxzybkpDU6ybSyT

0118

 $0_{1}$ Scale = 1:22.4



			12-4-0			
			12-4-0			
Plate Offsets (X,Y)	[1:Edge,0-0-12], [22:0-1-8,0-0-1	2], [23:0-1-8,0-0-12]				
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 0.09 BC 0.02 WB 0.03 Matrix-R	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) n/a - n/a - 0.00 12	l/defl L/d n/a 999 n/a 999 n/a n/a	PLATES GRIP MT20 197/144 Weight: 54 lb FT = 20%F, 115

LUMBER-**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)

**OTHERS** 2x4 SP No.3(flat)

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-4-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 21, 12, 20, 19, 18, 17, 16, 15, 14, 13

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

## NOTES-

- 1) All plates are 1.5x4 MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- 5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

Job	Truss	Truss Type	Qty	Ply	WELLONS - BREEDEN Crawl
2000555-2000555A	F6	Floor	1	1	Job Reference (optional)

8.400 s Apr 7 2020 MiTek Industries, Inc. Mon Sep 21 09:32:29 2020 Page 1 ID:qVyPb7bITNTQeBoz4CnhCwycNrj-m4Pzd99pxvoaYNyK?SNXCd92oWBWknltaFTPSsybSyG

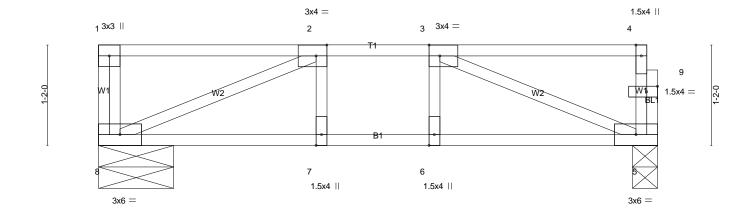
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

2-3-6 1-2-4 0<u>-1-</u>8

Scale = 1:13.4



			6-6-0 6-6-0				
Plate Offsets (X,Y) [2:0-1-8,E	<u>-Edge], [3:0-1-8,Edge], [9</u>	9:0-1-8,0-0-12]					
TCDL 10.0 Lumber BCLL 0.0 Rep S	NG- 2-0-0 Grip DOL 1.00 er DOL 1.00 tress Incr YES IRC2015/TPI2014	CSI. TC 0.40 BC 0.27 WB 0.15 Matrix-S	<b>DEFL.</b> Vert(LL) -0.0 Vert(CT) -0.0 Horz(CT) 0.0	3 7-8 3 7-8	l/defl L/d >999 480 >999 360 n/a n/a	PLATES MT20 Weight: 34 lb	<b>GRIP</b> 197/144 FT = 20%F, 115

**BOT CHORD** 

LUMBER-**BRACING-**TOP CHORD

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

2x4 SP No.3(flat)

**REACTIONS.** (lb/size) 8=344/0-10-8 (min. 0-1-8), 5=338/0-3-8 (min. 0-1-8)

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

TOP CHORD BOT CHORD 2-3=-537/0 7-8=0/537, 6-7=0/537, 5-6=0/537

WEBS 3-5=-576/0, 2-8=-583/0

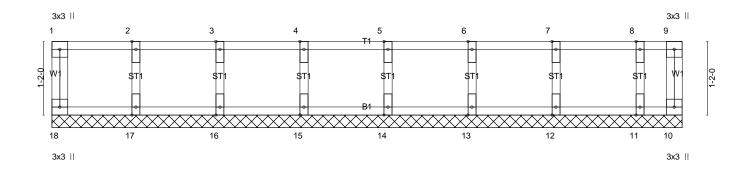
## NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.

Job	Truss	Truss Type	Qty	Ply	WELLONS - BREEDEN Crawl
2000555-2000555A	F6E	Floor Supported Gable	1	1	Job Reference (optional)

8.400 s Apr 7 2020 MiTek Industries, Inc. Mon Sep 21 09:32:39 2020 Page 1 ID:qVyPb7bITNTQeBoz4CnhCwycNrj-T?0kjaG5a\_39lwjFaZYtckZqLYfm4LhLtpuxoHybSy6

Scale = 1:18.3



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 0.02 WB 0.03 Matrix-R	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) n/a - n/a - 0.00 10	l/defl L/d n/a 999 n/a 999 n/a n/a	PLATES GRIP MT20 197/144 Weight: 45 lb FT = 20	0%F, 119

LUMBER-

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

**OTHERS** 2x4 SP No.3(flat) **BRACING-**TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

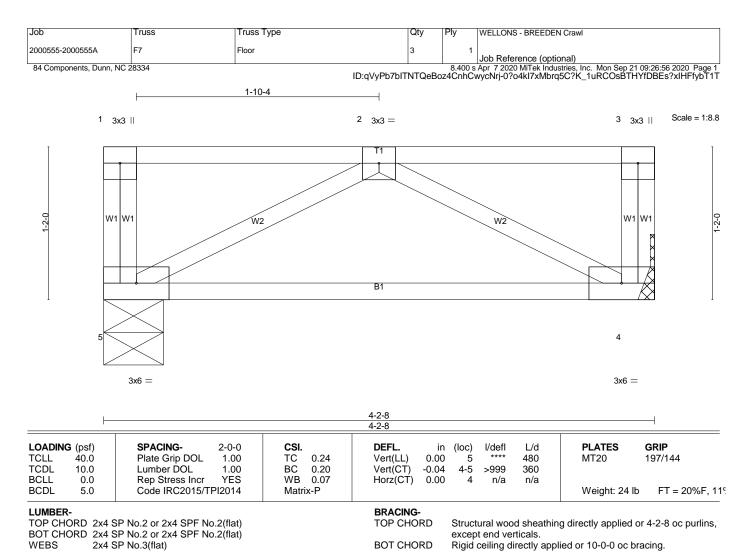
REACTIONS. All bearings 10-0-0.

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

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

#### NOTES-

- 1) All plates are 1.5x4 MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- 5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



**REACTIONS.** (lb/size) 5=218/0-5-8 (min. 0-1-8), 4=218/Mechanical

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

WEBS 2-5=-263/0, 2-4=-263/0

#### NOTES-

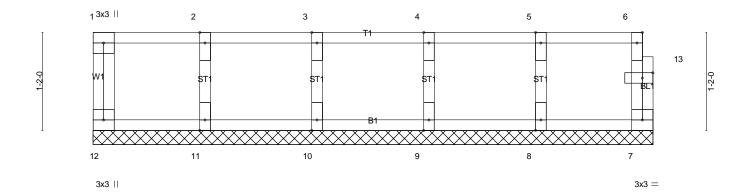
- 1) Refer to girder(s) for truss to truss connections.
- 2) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

Job	Truss	Truss Type	Qty	Ply	WELLONS - BREEDEN Crawl
2000555-2000555A	F8E	Floor Supported Gable	1	1	Job Reference (optional)

8.400 s Apr 7 2020 MiTek Industries, Inc. Mon Sep 21 09:32:51 2020 Page 1 ID:qVyPb7bITNTQeBoz4CnhCwycNrj-7IIHEgQdlgaSBmdZH4mh5G3tONlkumg6egoaCaybSxw

0-1-8

Scale = 1:13.7



						6-8-0						
						6-8-0						
Plate Off	sets (X,Y)	[13:0-1-8,0-0-12]										
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	40.Ó	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	` _	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	ВС	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB.	0.03	Horz(CT)	0.00	7	n/a	n/a		
BCDL	5.0	Code IRC2015/TF	_	Matr							Weight: 30 lb	FT = 20%F, 119

LUMBER-

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

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

WEBS 2x4 SP No.3(flat)

**OTHERS** 2x4 SP No.3(flat) **BRACING-**

TOP CHORD

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

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 6-8-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 12, 7, 11, 10, 9, 8

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

### NOTES-

- 1) All plates are 1.5x4 MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- 5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 7) CAUTION, Do not erect truss backwards.

nal)	ob Reference (option	1 1 J		Floor Supported Gable	9E	5A F9	2000555-2000555
stries, Inc. Mon Sep 21 0 L4ldcYs_b_VaoZxLD	pr 7 2020 MiTek Indu vycNrj-mcTpmnZ8w	8.400 s Ar TNTQeBoz4CnhCw	ID:qVyPb7bl	-	334	Dunn, NC 283	84 Components,
4 3x3	1.5x4	3 1	П	2 1.5x4		1 <sub>3x3</sub>	
			T1				
				•			
W1 W	ST1			ST1		W1 W1	1-2-0
			B1				
5		6		7		8	
3x3	1.5x4	1	II	1.5x4		3x3	
			3-9-0 3-9-0			-	
	n/a 999	n/a · -		.00 TC 0.0	Plate Grip DOL 1.0	0   F	LOADING (psf
Weight: 19 lb	n/a n/a		0.03 Horz(CT	ES WB 0.0	Rep Stress Incr YES	0 F	BCLL 0.0 BCDL 5.0
11 11 11 11 11 11 11 11 11 11 11 11 11	### Stries, Inc. Mon Sep 21 09 L4ldcYs_b_VaoZxLDrl  ### 3x3     ### W1 W1  W1 W1  Flates C  MT20 1	5  1.5x4    4 3x3     ST1	8.400 s Apr 7 2020 MTek Industries, Inc. Mon Sep 21 09 INTQeBoz4CnhCwycNrj-mcTpmnZ8wL4ldcYs_b_VaoZxLDrl  3 1.5x4    4 3x3     ST1 W1 W1  ST1	8.400 s Apr 7 2020 MTek Industries, Inc. Mon Sep 21 09 ID:qVyPb7bITNTQeBoz4CnhCwycNrj-mcTpmnZ8wL4ldcYs_b_VaoZxLDrl  3 1.5x4    4 3x3     T1  ST1  W1 W1  ST1  W1 W1  ST1  3.9-0  3.9-0  3.9-0  DEFL. in (loc) I/defl L/d PLATES C Wcrt(LL) n/a - n/a 999  Vert(CT) n/a - n/a 999  Horz(CT) 0.00 5 n/a n/a  Horz(CT) 0.00 5 n/a n/a	8.400 s Apr 7 2020 MTek industries. Inc. Mon Sep 21 09 ID:qVyPb7bITNTQeBoz4CnhCwycNrj-mcTpmnZ8wL4ldcYs_b_VaoZxLDrl  2 1.5x4    3 1.5x4    4 3x3     T1  ST1  ST1  W1 W1  W1  T1  A 3-9-0  3-9-0  3-9-0  CSI. DEFL. in (loc) I/defl L/d PLATES CONTROL Of TC 0.08 Vert(LL) n/a - n/a 999 MT20 1  BC 0.01 Vert(CT) n/a - n/a 999 MT20 1  S WB 0.03 Horz(CT) 0.00 5 n/a n/a	34   8.400 s Apr 7 2020 MTek Industries, Inc. Mon Sep 21 09 ID:qVyPb7bITNTQeBoz4CnhCwycNrj-mcTpmnZ8wL4ldcYs_b_VaoZxLDrt  2 1.5x4    3 1.5x4    4 3x3     T1	SPACING- 2-0-0   SPACING- 2-0-0   CSI.   DEFL. in (loc) 1/defl L/d   PLATES   Color of the policy

WELLONS - BREEDEN Crawl

Structural wood sheathing directly applied or 3-9-0 oc purlins,

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

except end verticals.

**REACTIONS.** All bearings 3-9-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 8, 5, 7, 6

 $\textbf{FORCES.} \hspace{0.2in} \textbf{(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.} \\$ 

#### NOTES-

**OTHERS** 

Job

Truss

Truss Type

1) Gable requires continuous bottom chord bearing.

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)

2x4 SP No.3(flat)

- 2) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 3) Gable studs spaced at 1-4-0 oc.
- 4) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

TOP CHORD

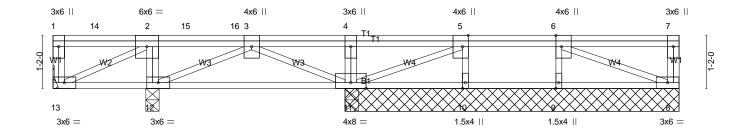
**BOT CHORD** 

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.

Job	Truss	Truss Type	Qty	Ply	WELLONS - BREEDEN Crawl
2000555-2000555A	F2GR	FLOOR GIRDER	1	1	Job Reference (optional)
					dep relevance (optional)

8.400 s Apr 7 2020 MiTek Industries, Inc. Mon Sep 21 09:28:46 2020 Page 1 ID:qVyPb7bITNTQeBoz4CnhCwycNrj-oARfpvSxSOiDI6PTR7tEgbP\_id6z\_xr2l3x66HybT?l 1-9-12 2-0-10 1-11-2 2-3-15

Scale = 1:25.3



├ <u>2-2</u> 2-2		6-5- 4-2-1		6-6-8 0-1-8		13-9-0 7-2-8	 ——
Plate Offsets (X,Y)	[5:0-3-0,Edge], [6	:0-3-0,Edge]					
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- Plate Grip DOI Lumber DOL Rep Stress Ind Code IRC2015	1.00 r NO	CSI. TC 0.24 BC 0.17 WB 0.11 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) I/defl 0.00 9 **** -0.02 11-12 >999 0.00 11 n/a	L/d 480 360 n/a	<b>GRIP</b> 197/144 FT = 20%F, 119

LUMBER-**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)

2x4 SP No.3(flat)

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

Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 11-12.

All bearings 7-4-0 except (jt=length) 13=Mechanical, 12=0-3-8. REACTIONS.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 13, 8, 10 except 11=499(LC 4), 11=495(LC 1), 12=671(LC 1), 9=294(LC 4)

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

BOT CHORD 11-12=0/268

**WEBS** 2-12=-479/0, 4-11=-251/0, 3-12=-388/0, 3-11=-418/0, 6-9=-266/0

#### NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 199 lb down at 0-11-12, and 189 lb down at 2-11-12, and 198 lb down at 4-0-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

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

Vert: 8-13=-10, 1-7=-100

Concentrated Loads (lb)

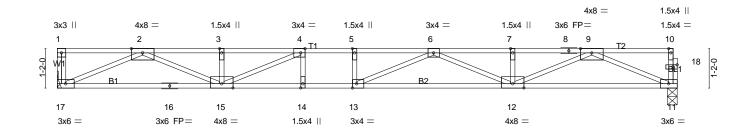
Vert: 14=-125(B) 15=-118(B) 16=-118(B)

Job	Truss	Truss Type	Qty	Ply	WELLONS - BREEDEN
2000471-2000471A	F1	Floor	10	1	Job Reference (optional)

8.400 s Apr 7 2020 MiTek Industries, Inc. Mon Sep 21 09:36:13 2020 Page 1 ID:qVyPb7bITNTQeBoz4CnhCwycNrj-CAyeeIsKBk0oQo4N7VO3HsQClpY7Dy0r45jGltybSum

2-3-6 1-4-14 0-11-8

Scale = 1:34.1



			18-4-8				
			18-4-8				
Plate Offsets (X,	') [4:0-1-8,Edge], [13:0-1-8,Edge]	, [18:0-1-8,0-0-12]					
LOADING (psf)	<b>SPACING-</b> 2-0-0	CSI.	DEFL.	in (loc)	I/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.95	Vert(LL)	-0.39 12-13	>561 480	MT20	197/144
TCDL 10.0	Lumber DOL 1.00	BC 0.58	Vert(CT)	-0.55 12-13	>397 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.71	Horz(CT)	0.07 11	n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S				Weight: 91 lb	FT = 20%F, 11%

LUMBER-**BRACING-**

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

2x4 SP No.3(flat)

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins,

except end verticals.

**BOT CHORD** 

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

**REACTIONS.** (lb/size) 17=997/Mechanical, 11=991/0-3-8 (min. 0-1-8)

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

2-3=-3375/0, 3-4=-3375/0, 4-5=-4258/0, 5-6=-4258/0, 6-7=-3400/0, 7-8=-3400/0, 8-9=-3400/0 16-17=0/2024, 15-16=0/2024, 14-15=0/4258, 13-14=0/4258, 12-13=0/4150, 11-12=0/2033 **BOT CHORD**  $9-11=-2209/0,\ 2-17=-2206/0,\ 9-12=0/1497,\ 2-15=0/1478,\ 3-15=-251/22,\ 6-12=-820/0,\ 4-15=-1152/0,\ 4-152/0,\ 4-152/0,\ 4-152/0,\ 4-152/0,\ 4-152/0,\ 4-152/0,\ 4-152/0$ **WEBS** 

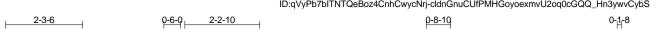
6-13=-246/543

#### NOTES-

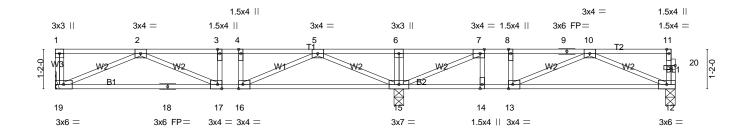
- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 4) Recommend 2x6 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.

[-	Job	Truss	Truss Type	Qty	Ply	WELLONS - BREEDEN
	2000471-2000471A	F1A	Floor	1	1	Job Reference (optional)
_	84 Components, Dunn, NC 2	8334	ID:a\\\Dh7hITNI	OoBoz4		Apr 7 2020 MiTek Industries, Inc. Mon Sep 21 09:36:16 2020 Page 1

Structural wood sheathing directly applied or 6-0-0 oc purlins,



Scale = 1:34.1



	10-2-4		1	18-4-8		
	10-2-4		1	8-2-4		<u> </u>
Plate Offsets (X,Y)	[7:0-1-8,Edge], [13:0-1-8,Edge]	, [16:0-1-8,Edge], [17:0-1-8,	Edge], [20:0-1-8,0-0-1	2]		
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	TC 0.58 V BC 0.49 V	EFL. in (loc) ert(LL) -0.08 12-13 ert(CT) -0.14 12-13 orz(CT) 0.02 12			<b>GRIP</b> 197/144
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S	012(C1) 0.02 12	11/4 11/4	Weight: 93 lb	FT = 20%F, 119

LUMBER-**BRACING-**

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

except end verticals. 2x4 SP No.3(flat) **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) 19=490/Mechanical, 12=358/0-3-8 (min. 0-1-8), 15=1140/0-3-8 (min. 0-1-8)

Max Grav 19=504(LC 10), 12=404(LC 4), 15=1140(LC 1)

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

TOP CHORD

Output

Description:

1. All forces 250 (Ib) or less except when shown.

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1. All forces 250 (Ib) or less except wh

6-15=-250/0, 2-19=-978/0, 5-15=-1195/0, 2-17=0/299, 5-16=0/590, 10-12=-737/0, 7-15=-1069/0 WEBS

#### NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.

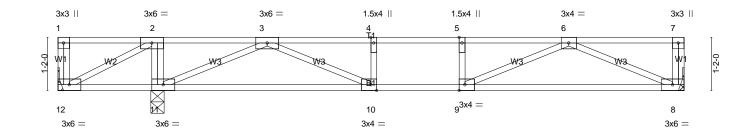
Job	Truss	Truss Type	Qty	Ply	WELLONS - BREEDEN
2000471-2000471A	F2	Floor	6	1	Job Reference (optional)

1-9-12

8.400 s Apr 7 2020 MiTek Industries, Inc. Mon Sep 21 09:36:22 2020 Page 1 ID:qVyPb7bITNTQeBoz4CnhCwycNrj-Ru?2Xqzz3V9W?BG69u2A8llqJRdlq57A9?PE7rybSud

1-9-12

Scale = 1:25.3



<u>2-2</u> 2-2					13-9-0 11-6-12					
Plate Offsets (X,Y)	) [9:0-1-8,Edge], [10:0	0-1-8,Edge]								
LOADING         (psf)           TCLL         40.0           TCDL         10.0           BCLL         0.0           BCDL         5.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/T	2-0-0 1.00 1.00 YES PI2014	CSI. TC 0.5 BC 0.6 WB 0.4 Matrix-S	Vert	(LL) -0.12	8-9	I/defI >999 >713 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 69 lb	<b>GRIP</b> 197/144  FT = 20%F, 11°

LUMBER-**BRACING-**

2-3-6

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat) BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat) TOP CHORD 2x4 SP No.3(flat) **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, Except: 6-0-0 oc bracing: 11-12.

REACTIONS. (lb/size) 12=-199/Mechanical, 8=573/Mechanical, 11=1111/0-3-8 (min. 0-1-8)

Max Uplift12=-306(LC 7)

Max Grav 12=80(LC 8), 8=574(LC 4), 11=1159(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=0/751, 3-4=-1413/0, 4-5=-1413/0, 5-6=-1413/0

BOT CHORD 11-12=-751/0, 10-11=0/699, 9-10=0/1413, 8-9=0/1054

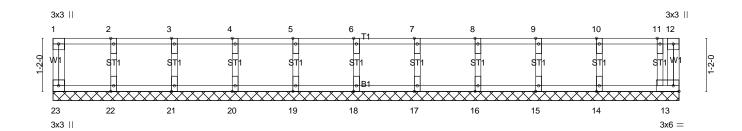
WEBS 2-11=-637/0, 2-12=0/841, 6-8=-1148/0, 3-11=-1366/0, 6-9=0/411, 3-10=0/791, 4-10=-269/0

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 306 lb uplift at joint 12.
- 4) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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	WELLONS - BREEDEN
2000471-2000471A	F2E	Floor Supported Gable	1	1	Job Reference (optional)

8.400 s Apr 7 2020 MTek Industries, Inc. Mon Sep 21 09:36:24 2020 Page 1 ID:qVyPb7bITNTQeBoz4CnhCwycNrj-NH6oxW?Db6PEFVQVGJ5eEAOHTFSHI5NTcJuLBkybSub

Scale = 1:25.3



			13-9-0 13-9-0				
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 YES Code IRC2015/TPI2014	CSI. TC 0.09 BC 0.03 WB 0.03 Matrix-R	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) n/a - n/a - 0.00 13	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES GRIP MT20 197/144 Weight: 60 lb FT = 20%F, 119

LUMBER-

**OTHERS** 2x4 SP No.3(flat) **BRACING-**TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 13-9-0.

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

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

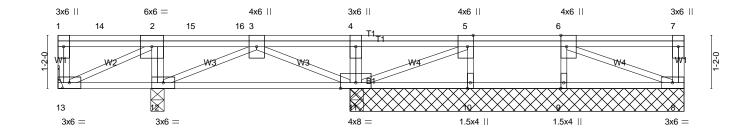
# NOTES-

- 1) All plates are 1.5x4 MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- 5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

Job	Truss	Truss Type	Qty	Ply	WELLONS - BREEDEN
2000471-2000471A	F2GR	FLOOR GIRDER	1	1	Job Reference (optional)

8.400 s Apr 7 2020 MiTek Industries, Inc. Mon Sep 21 09:36:26 2020 Page 1 ID:qVyPb7bITNTQeBoz4CnhCwycNrj-KgEZMB0U7jfyUoZt0k76JbTbc25bm\_jm4dNSGcybSuZ 1-9-12 2-0-10 1-11-2 2-3-15

Scale = 1:25.3



├ <u>2-2</u> 2-2		6-5- 4-2-1		6-6-8 0-1-8		13-9-0 7-2-8	 ——
Plate Offsets (X,Y)	[5:0-3-0,Edge], [6	:0-3-0,Edge]					
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- Plate Grip DOI Lumber DOL Rep Stress Ind Code IRC2015	1.00 r NO	CSI. TC 0.24 BC 0.17 WB 0.11 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) I/defl 0.00 9 **** -0.02 11-12 >999 0.00 11 n/a	L/d 480 360 n/a	<b>GRIP</b> 197/144 FT = 20%F, 119

LUMBER-**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)

2x4 SP No.3(flat)

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

Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 11-12.

All bearings 7-4-0 except (jt=length) 13=Mechanical, 12=0-3-8. REACTIONS.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 13, 8, 10 except 11=499(LC 4), 11=495(LC 1), 12=671(LC 1), 9=294(LC 4)

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

BOT CHORD 11-12=0/268

**WEBS** 2-12=-479/0, 4-11=-251/0, 3-12=-388/0, 3-11=-418/0, 6-9=-266/0

#### NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 199 lb down at 0-11-12, and 189 lb down at 2-11-12, and 198 lb down at 4-0-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

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

Vert: 8-13=-10, 1-7=-100

Concentrated Loads (lb)

Vert: 14=-125(B) 15=-118(B) 16=-118(B)

Job	Truss	Truss Type	Qty	Ply	WELLONS - BREEDEN
2000471-2000471A	F3	Floor	3	1	Job Reference (optional)

8.400 s Apr 7 2020 MiTek Industries, Inc. Mon Sep 21 09:36:27 2020 Page 1 ID:qVyPb7bITNTQeBoz4CnhCwycNrj-osoxaX16u1no6y83xReLrp?gaSFaVMwvIH6?o3ybSuY

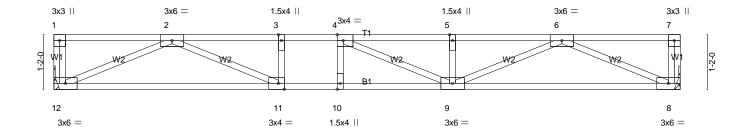
Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 9-10.

except end verticals.

1-1-10 2-3-6

Scale = 1:24.7



			13-5-0	
1			13-5-0	
Plate Offsets (X,Y)-	[4:0-1-8,Edge], [11:0-1-8,Edge]			
			T	=
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP	
TCLL 40.0	Plate Grip DOL 1.00	TC 0.61	Vert(LL) -0.16 9-10 >992 480 MT20 197/144	
TCDL 10.0	Lumber DOL 1.00	BC 0.95	Vert(CT) -0.21 9-10 >753 360	
BCLL 0.0	Rep Stress Incr YES	WB 0.43	Horz(CT) 0.03 8 n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S	Weight: 68 lb FT = 20%	F, 119
				•

LUMBER-BRACING-TOP CHORD

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

2x4 SP No.3(flat)

**BOT CHORD** 

REACTIONS. (lb/size) 12=724/Mechanical, 8=724/Mechanical

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

BOT CHORD

2-3=-2208/0, 3-4=-2208/0, 4-5=-2180/0, 5-6=-2180/0 11-12=0/1406, 10-11=0/2208, 9-10=0/2208, 8-9=0/1399

 $6-8=-1525/0,\ 2-12=-1532/0,\ 6-9=0/855,\ 2-11=0/900,\ 5-9=-284/0,\ 4-9=-346/211$ WEBS

#### NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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	Qty	Ply	WELLONS - BREEDEN
2000471-2000471A	F4	Floor	1	1	
					Job Reference (optional)
84 Components Dunn NC 2	8334	•		8 400 s	Apr. 7 2020 MiTek Industries, Inc., Mon Sep 21 09:36:29 2020, Page 1

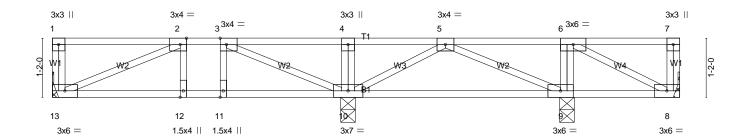
1-9-10

2-3-6

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Scale = 1:22.8

1-10-4



	5-10-4	5-	·1 <sub>1</sub> 1 <sub>-</sub> 12	10-2-4		12-5-0	
	5-10-4	(	D-'1'-8	4-2-8		2-2-12	2 '
Plate Offsets (X	Y) [2:0-1-8,Edge], [3:0-1-8,Edge]						
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc) I/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.39	Vert(LL)	-0.02 12-13 >999 4	80	MT20	197/144
TCDL 10.0	Lumber DOL 1.00	BC 0.23	Vert(CT)	-0.03 12-13 >999 3	860		
BCLL 0.0	Rep Stress Incr YES	WB 0.14	Horz(CT)	0.01 9 n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S	, ,			Weight: 68 lb	FT = 20%F, 119

LUMBER-

**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)

TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.

**WEBS** 2x4 SP No.3(flat) **BOT CHORD** 

Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings Mechanical except (jt=length) 10=0-3-8, 9=0-3-8.

0-8-0

(lb) - Max Uplift All uplift 100 lb or less at joint(s) 8

Max Grav All reactions 250 lb or less at joint(s) 8 except 13=297(LC 5), 10=597(LC 12), 9=430(LC 11)

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

TOP CHORD 2-3=-418/0

BOT CHORD 12-13=0/418, 11-12=0/418, 10-11=0/418, 9-10=-20/257

WEBS 6-9=-278/0, 2-13=-453/0, 3-10=-522/0, 5-9=-304/23, 5-10=-316/0

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8.
- 4) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.

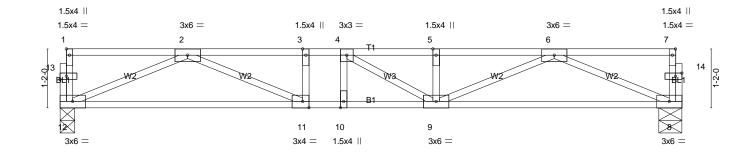
Job	Truss	Truss Type	Qty	Ply	WELLONS - BREEDEN
2000471-2000471A	F5	Floor	5	1	Job Reference (optional)

8.400 s Apr 7 2020 MiTek Industries, Inc. Mon Sep 21 09:36:31 2020 Page 1 ID:qVyPb7bITNTQeBoz4CnhCwycNrj-gd1SPv4cxGIEaZSrAHjH0fAQi3iRRB\_VDv4DxqybSuU





 $0_11_78$ Scale = 1:22.8



		12-4-0	
		12-4-0	
[1:Edge,0-0-12], [11:0-1-8,Edge	], [13:0-1-8,0-0-12], [	14:0-1-8,0-0-12]	
7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	1	, ,	
SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
Plate Grip DOL 1.00	TC 0.34	Vert(LL) -0.10 9-10 >999 480	MT20 197/144
Lumber DOL 1.00	BC 0.64	Vert(CT) -0.13 9-10 >999 360	
Rep Stress Incr YES	WB 0.36	Horz(CT) 0.03 8 n/a n/a	
Code IRC2015/TPI2014	Matrix-S		Weight: 63 lb FT = 20%F, 119
	SPACING-         2-0-0           Plate Grip DOL         1.00           Lumber DOL         1.00           Rep Stress Incr         YES	SPACING-         2-0-0         CSI.           Plate Grip DOL         1.00         TC         0.34           Lumber DOL         1.00         BC         0.64           Rep Stress Incr         YES         WB         0.36	T:Edge,0-0-12], [11:0-1-8,Edge], [13:0-1-8,0-0-12], [14:0-1-8,0-0-12]

LUMBER-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)

2x4 SP No.3(flat)

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 12=658/0-3-8 (min. 0-1-8), 8=658/0-5-8 (min. 0-1-8)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-3=-1890/0, 3-4=-1890/0, 4-5=-1886/0, 5-6=-1886/0 BOT CHORD 11-12=0/1265, 10-11=0/1890, 9-10=0/1890, 8-9=0/1262

WEBS 6-8=-1369/0, 2-12=-1373/0, 6-9=0/683, 2-11=0/698, 4-9=-255/205

#### NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.

Job	Truss	Truss Type	Qty	Ply	WELLONS - BREEDEN
		"'	'	1	
2000474 20004744	EE A	Flaar	-		
2000471-2000471A	F5A	Floor	/	1	
					Job Reference (optional)
84 Components, Dunn, NC 2	8334	•	•	8.400 s	Apr 7 2020 MiTek Industries, Inc. Mon Sep 21 09:36:33 2020 Page 1
		ID:aV	Ph7hITNT		CnhCwycNri-d09Cab6tTtYyatcDlill54FmttSAv8XnhDZJ?ivbSuS

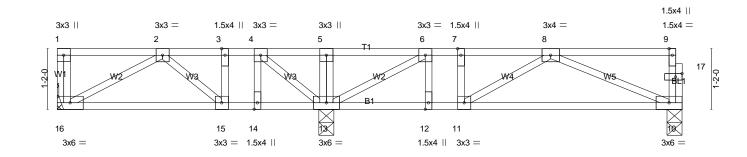
0-6-0

1-8-0

2-3-6

Scale = 1:22.2

0118



<u> </u>	5-2-4 5-2-4		12-0-8 6-10-4					
Plate Offsets (X,Y)	) [17:0-1-8,0-0-12]		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 YES Code IRC2015/TPI2014	CSI. TC 0.30 BC 0.30 WB 0.16 Matrix-S	Vert(CT) -0.06 10-11 >999 360 Horz(CT) 0.01 10 n/a n/a	IP 7/144 FT = 20%F, 119				

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat) TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat) except end verticals.

2x4 SP No.3(flat) **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 16=247/Mechanical, 10=338/0-3-8 (min. 0-1-8), 13=705/0-3-8 (min. 0-1-8)

1-1-11 0-6-0 1-1-11

Max Grav 16=269(LC 3), 10=344(LC 7), 13=705(LC 1)

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

TOP CHORD 2-3=-272/0, 3-4=-272/0, 6-7=-469/0, 7-8=-469/0

BOT CHORD 15-16=0/324, 14-15=0/272, 13-14=0/272, 12-13=0/469, 11-12=0/469, 10-11=0/538

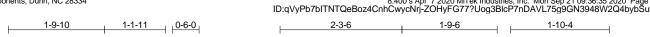
WEBS 2-16=-369/0, 4-13=-430/0, 8-10=-580/0, 6-13=-668/0

## NOTES-

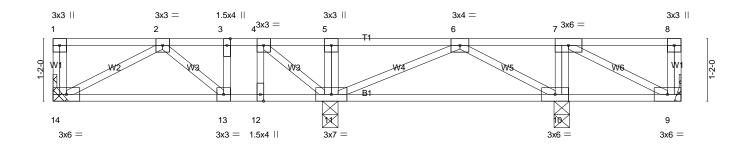
- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 4) Recommend 2x6 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.

1-9-6

Job	Truss	Truss Type	Qty	Ply	WELLONS - BREEDEN
2000471-2000471A	F5B	Floor	1	1	Job Reference (optional)
84 Components, Dunn, NC 2	8334	ID:a\/vPh7hITNT/	ABOZ4Cı	8.400 s	Apr 7 2020 MiTek Industries, Inc. Mon Sep 21 09:36:35 2020 Page 1



Scale = 1:21.6



	5-2-8	5 <sub>7</sub> 4 <sub>7</sub> 0	9-6-4	11-9-0
	5-2-8	0-1-8	4-2-4	2-2-12
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	TC 0.25 BC 0.19	DEFL.         in (loc)         l/defl         L/d           Vert(LL)         -0.01 13-14         >999         480           Vert(CT)         -0.03 13-14         >999         360           Horz(CT)         0.00         10         n/a         n/a	PLATES GRIP MT20 197/144 Weight: 66 lb FT = 20%F, 115

LUMBER-

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

**BRACING-**TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 9-10.

REACTIONS. All bearings 0-3-8 except (jt=length) 14=Mechanical, 9=Mechanical.

(lb) - Max Uplift All uplift 100 lb or less at joint(s) 9

Max Grav All reactions 250 lb or less at joint(s) 9 except 14=272(LC 5), 10=425(LC 11), 11=528(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-277/0, 3-4=-277/0

BOT CHORD 13-14=0/331, 12-13=0/277, 11-12=0/277

WEBS 7-10=-251/0, 2-14=-376/0, 4-11=-375/0, 6-10=-307/0

#### NOTES-

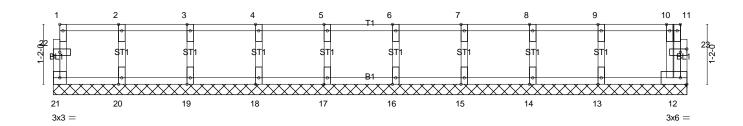
- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9.
- 4) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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	WELLONS - BREEDEN
2000471-2000471A	F5E	Floor Supported Gable	1	1	Job Reference (optional)

8.400 s Apr 7 2020 MiTek Industries, Inc. Mon Sep 21 09:36:36 2020 Page 1 ID:qVyPb7bITNTQeBoz4CnhCwycNrj-1brLTc8lmowXhLKozqlSjitKS4Y96XLENAo\_c1ybSuP

0118

 $0_{1}$ Scale = 1:22.4



			12-4-0			
			12-4-0			
Plate Offsets (X,Y)	[1:Edge,0-0-12], [22:0-1-8,0-0-1	2], [23:0-1-8,0-0-12]				
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 0.09 BC 0.02 WB 0.03 Matrix-R	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) n/a - n/a - 0.00 12	l/defl L/d n/a 999 n/a 999 n/a n/a	PLATES GRIP MT20 197/144 Weight: 54 lb FT = 20%F, 115

LUMBER-**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)

**OTHERS** 2x4 SP No.3(flat) TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-4-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 21, 12, 20, 19, 18, 17, 16, 15, 14, 13

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

### NOTES-

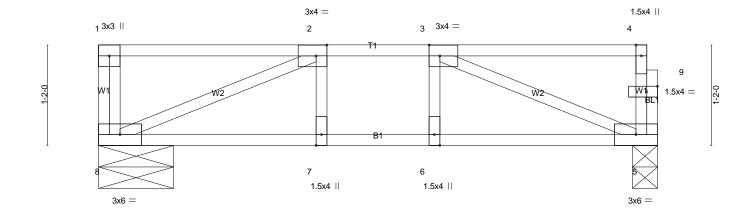
- 1) All plates are 1.5x4 MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- 5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

Job	Truss	Truss Type	Qty	Ply	WELLONS - BREEDEN
	F6	Floor	1	1	Job Reference (optional)

8.400 s Apr 7 2020 MiTek Industries, Inc. Mon Sep 21 09:36:38 2020 Page 1 ID:qVyPb7bITNTQeBoz4CnhCwycNrj-zzy5tl9?IPAFweUB5FLwo7zbzuAnaOxXqUH4hwybSuN

2-3-6 1-2-4 0<u>-1-</u>8

Scale = 1:13.4



			6-6-0 6-6-0				
Plate Offsets (X,Y) [2:0-1-8,E	<u>-:</u> dge], [3:0-1-8,Edge], [9	9:0-1-8,0-0-12]					
TCDL 10.0 Lumber BCLL 0.0 Rep St	NG- 2-0-0 Grip DOL 1.00 er DOL 1.00 tress Incr YES IRC2015/TPI2014	CSI. TC 0.40 BC 0.27 WB 0.15 Matrix-S	<b>DEFL.</b> ir Vert(LL) -0.03 Vert(CT) -0.03 Horz(CT) 0.04	3 7-8 >999 3 7-8 >999	9 480 9 360	PLATES MT20 Weight: 34 lb	<b>GRIP</b> 197/144 FT = 20%F, 115

LUMBER-**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)

2x4 SP No.3(flat)

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.

**REACTIONS.** (lb/size) 8=344/0-10-8 (min. 0-1-8), 5=338/0-3-8 (min. 0-1-8)

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

TOP CHORD BOT CHORD

2-3=-537/0 7-8=0/537, 6-7=0/537, 5-6=0/537

3-5=-576/0, 2-8=-583/0 WEBS

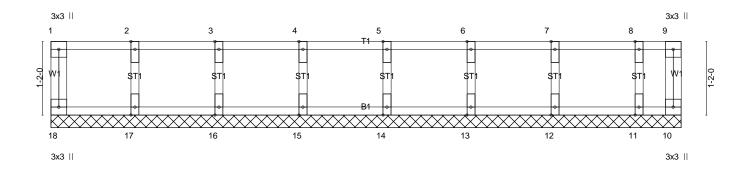
## NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.

Job	Truss	Truss Type	Qty	Ply	WELLONS - BREEDEN
2000471-2000471A	F6E	Floor Supported Gable	1	1	Job Reference (optional)

8.400 s Apr 7 2020 MiTek Industries, Inc. Mon Sep 21 09:36:40 2020 Page 1 ID:qVyPb7bITNTQeBoz4CnhCwycNrj-vM4rl\_BGq1Qy9yeZCgNOtY20Whv92KLpIomBlpybSuL

Scale = 1:18.3



10-0-0 10-0-0							
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 YES Code IRC2015/TPI2014	CSI. TC 0.08 BC 0.02 WB 0.03 Matrix-R	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) n/a - n/a - 0.00 10	I/defI L/d n/a 999 n/a 999 n/a n/a	PLATES MT20 Weight: 45 lb	<b>GRIP</b> 197/144 FT = 20%F, 119

LUMBER-

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

**OTHERS** 2x4 SP No.3(flat) **BRACING-**TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

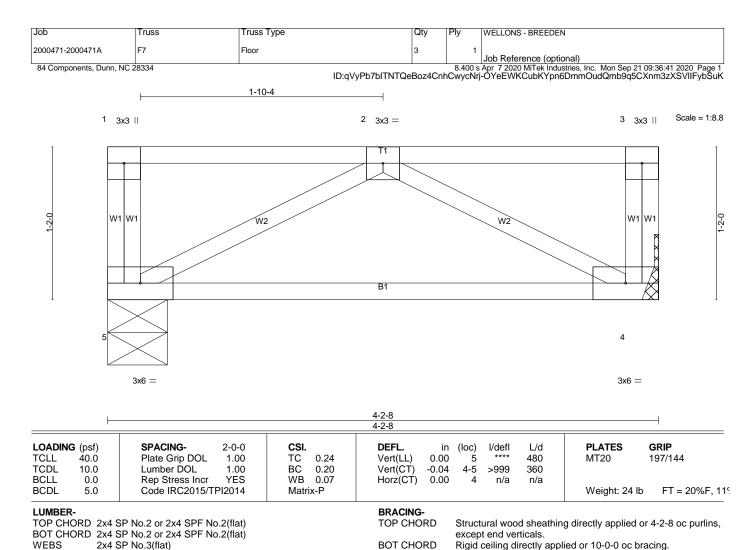
REACTIONS. All bearings 10-0-0.

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

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

#### NOTES-

- 1) All plates are 1.5x4 MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- 5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



**REACTIONS.** (lb/size) 5=218/0-5-8 (min. 0-1-8), 4=218/Mechanical

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

WEBS 2-5=-263/0, 2-4=-263/0

#### NOTES-

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

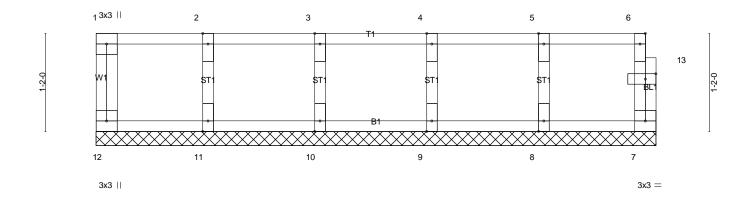
- 2) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

Job	Truss	Truss Type	Qty	Ply	WELLONS - BREEDEN
2000471-2000471A	F8E	Floor Supported Gable	1	1	Job Reference (optional)

8.400 s Apr 7 2020 MiTek Industries, Inc. Mon Sep 21 09:36:43 2020 Page 1 ID:qVyPb7bITNTQeBoz4CnhCwycNrj-Kxm\_x?D87yoX1PN8tow5VBgXrvx0Fh6G\_m\_rM7ybSuI

0-1-8

Scale = 1:13.7



<u></u>			6-8-0				
			6-8-0				<u>'</u>
Plate Offsets (X,	′) [13:0-1-8,0-0-12]						
LOADING (psf)	<b>SPACING-</b> 2-0-0	CSI.	DEFL.	in (loc)	I/defI L/d	PLATES (	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.08	Vert(LL)	n/a -	n/a 999	MT20	197/144
TCDL 10.0	Lumber DOL 1.00	BC 0.01	Vert(CT)	n/a -	n/a 999		
BCLL 0.0	Rep Stress Incr YES	WB 0.03	Horz(CT)	0.00 7	n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-R				Weight: 30 lb	FT = 20%F, 11°

LUMBER-**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)

**OTHERS** 2x4 SP No.3(flat) TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 6-8-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 12, 7, 11, 10, 9, 8

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

## NOTES-

- 1) All plates are 1.5x4 MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- 5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 7) CAUTION, Do not erect truss backwards.

2000471-2000471A	F9E	Floor Supported Gable	1	1 Job Reference (opti	onal)
84 Components, Dunr	n, NC 28334	ID:q'	8.400 VyPb7bITNTQeBoz4CnhCwyd	s Apr 7 2020 MiTek Indu Nrj-o7KM8LEmuFwOe	stries, Inc. Mon Sep 21 09:36:44 2020 Page 1 ZxLRWSK2ODiaIHB_8LPDQkPuaybSuH
1	3x3	2 1.5x4		<sup>3</sup> 1.5x4	4 3x3
	3.3	- 1.3x4		- 1.5x4	Scale: 1.5"=1'
į į			T1		
		•		*	
9	w1 w1				
1-2-0	VVI	ST1		ST1	- 1 W1 W1 P
			B1	•	
•					
8		7		6	5
	3x3	1.5x4		1.5x4	3x3
			3-9-0		
			3-9-0		<u> </u>
LOADING (psf) TCLL 40.0 TCDL 10.0		0-0 <b>CSI.</b> 00 TC 0.08 00 BC 0.01	1011(22)	e) I/defl L/d - n/a 999 - n/a 999	PLATES         GRIP           MT20         197/144
BCLL 0.0 BCDL 5.0	Rep Stress Incr YI Code IRC2015/TPI20	ES WB 0.03		5 n/a n/a	Weight: 19 lb FT = 20%F, 115

WELLONS - BREEDEN

Structural wood sheathing directly applied or 3-9-0 oc purlins,

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

except end verticals.

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)

**REACTIONS.** All bearings 3-9-0. (lb) - Max Grav All reactions 250 lb or less at joint(s) 8, 5, 7, 6

 $\textbf{FORCES.} \hspace{0.2in} \textbf{(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.} \\$ 

# NOTES-

LUMBER-

Job

Truss

Truss Type

- 1) Gable requires continuous bottom chord bearing.
- 2) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 3) Gable studs spaced at 1-4-0 oc.
- 4) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**BRACING-**

TOP CHORD

**BOT CHORD** 

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.