Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Johnson 5-24-111
Q2301528-29	2F01	Floor	9	1	Job Reference (optional)

 Run: 8.62 S
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 ID:wrPBJdg0ypBsglxj?d3oDXyZczh-3U77OBI2tzxm8CvkHwvixX_xs63EtxGRrZJZ?WyZ59U



17-9-0

Scale = 1:32.8

Loading TCLL TCDL	(psf) 40.0 10.0	Spacing Plate Grip DOL Lumber DOL	2-0-0 1.00 1.00	CSI TC BC	0.71 0.84	DEFL Vert(LL) Vert(CT)	in -0.30 -0.41	(loc) 16-17 16-17	l/defl >709 >517	L/d 480 360	PLATES MT18HS MT20	GRIP 244/190 244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.07	12	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 88 lb	FT = 20%F, 11%E
LUMBER												
TOP CHORD BOT CHORD	2x4 SP No.2(flat) 2x4 SP No.1(flat) *E	Except* B2:2x4 SP No.	2									
WEBS OTHERS	2x4 SP No.3(flat) 2x4 SP No.3(flat)											
BRACING TOP CHORD	Structural wood she	eathing directly applied	or									
BOT CHORD	Rigid ceiling directly bracing.	/ applied or 10-0-0 oc										
REACTIONS	(lb/size) 12=962/ 1 20=956/0	Mechanical, (min. 0-1-ł ⊦3-8. (min. 0-1-8)	3),									
FORCES	(lb) - Max. Comp./M	lax. Ten All forces 25	0									
TOP CHORD	(lb) or less except w 2-3=-2029/0, 3-4=-3 5-6=-3993/0, 6-7=-3 8-9=-3307/0, 9-10=-	/hen shown. 3307/0, 4-5=-3307/0, 3993/0, 7-8=-3993/0, -2030/0										
BOT CHORD	19-20=0/1196, 18-1 16-17=0/3993, 15-1 13-14=0/2828 12-1	9=0/2829, 17-18=0/37 6=0/3756, 14-15=0/28 3=0/1197	56, 28,									
WEBS	10-12=-1502/0, 2-20 2-19=0/1084, 9-13= 9-15=0/622, 3-18=0 5-18=-584/0, 8-16=- 6-17=-283/0, 7-16=-	D=-1498/0, 10-13=0/10 -1040/0, 3-19=-1041/0 /623, 8-15=-585/0, -79/638, 5-17=-79/638 -283/0	84, ,									
NOTES	· · · · · , ·											
 Unbalance this design 	d floor live loads hav	e been considered for										
 All plates a 	are MT20 plates unles	ss otherwise indicated.										
3) All plates a	are 3x3 MT20 unless	otherwise indicated.										
Refer to gi	rder(s) for truss to tru	iss connections.										
5) This truss	is designed in accord	lance with the 2015										
Internation	al Residential Code	sections R502.11.1 and										
R802.10.2	and referenced stan	dard ANSI/TPI 1.										
6) Recomme	nd 2x6 strongbacks, (on edge, spaced at										
(0 131" X 3	3") nails Strongback	s to be attached to wa	lls									
at their out	er ends or restrained	by other means.										
7) CAUTION	Do not erect truss be	ackwards.										
LOAD CASE	S) Standard											

Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Johnson 5-24-111
Q2301528-29	2F02	Floor	4	1	Job Reference (optional)

Run: 8.62 S Oct 13 2022 Print: 8.620 S Oct 13 2022 MiTek Industries, Inc. Thu Sep 28 14:14:55 Page: 1 ID:eJ3qYgDdbLkcxWIAatr6?pyZcz?-3U77OBI2tzxm8CvkHwvixX_wR62Itx6RrZJZ?WyZ59U

1-3-0 <u>_____</u>1-8 0,1-8 1-6-8 2-0-0 1.5x3 🛛 1.5x3= 3x4 = 1.5x3= 4x6= 1.5x3 **I** 3x3 = 1.5x3 II 3x3 = 3x6 FP 1.5x3 **I** 3x4 = 4x6 = 3 6 7 8 9 2 4 5 10 11 1 2 77 e BL 20 \mathbb{A} 19 18 17 16 15 14 13 12 3x3= 4x6= 3x4 = 4x6 = 3x4 = 3x3= 3x6 = 3x6 = MT18HS 3x10 FP 18-0-8 18-0-8

Scale = 1:33.2

Plate Offsets (X, Y): [16:0-1-8,Edge], [17:0-1-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	тс	0.80	Vert(LL)	-0.32	16	>669	480	MT18HS	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.90	Vert(CT)	-0.44	16	>486	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.07	12	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 89 lb	FT = 20%F, 11%E

LUMBER

LOWIDER	
TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.1(flat) *Except* B2:2x4 SP No.2 (flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS	(lb/size) 12=972/0-3-8, (min. 0-1-8), 20=972/0-3-8, (min. 0-1-8)
FORCES	(lb) - Max. Comp./Max. Ten All forces 250
TOP CHORD	(Ib) or less except when shown. 2-3=-2070/0, 3-4=-3383/0, 4-5=-3383/0, 5-6=-4128/0, 6-7=-4128/0, 7-8=-4128/0, 8-9=-3390/0, 9-10=-2068/0
BOT CHORD	19-20=0/1217, 18-19=0/2888, 17-18=0/3855, 16-17=0/4128, 15-16=0/3855, 14-15=0/2888, 13-14=0/2888, 12-13=0/1217
WEBS	10-12=-1524/0, 2-20=-1524/0, 10-13=0/1108, 2-19=0/1110, 9-13=-1067/0, 3-19=-1065/0, 9-15=0/653, 3-18=0/644, 8-15=-605/0, 5-18=-614/0, 8-16=-71/673, 5-17=-60/683, 6-17=-299/0, 7-16=-259/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) 3) All plates are MT20 plates unless otherwise indicated.
- 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d 4) (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	Value Build Homes - Johnson 5-24-111
Q2301528-29	2F03	Floor	1	1	Job Reference (optional)

Run: 8.62 S Oct 13 2022 Print: 8.620 S Oct 13 2022 MiTek Industries, Inc. Thu Sep 28 14:14:55 Page: 1 ID:?pwZk?h4PJf47VngMZ2G41yZcyO-3U77OBI2tzxm8CvkHwvixX_wR62Itx6RrZJZ?WyZ59U



Scale = 1:33.2

Plate Offsets (X, Y): [16:0-1-8,Edge], [17:0-1-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	тс	0.80	Vert(LL)	-0.32	16	>669	480	MT18HS	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.90	Vert(CT)	-0.44	16	>486	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.07	12	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 89 lb	FT = 20%F, 11%E
					-							

LUMBER

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.1(flat) *Except* B2:2x4 SP No.2 (flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS	(lb/size) 12=979/0-3-8, (min. 0-1-8), 20=972/0-3-8, (min. 0-1-8)
FORCES	(lb) - Max. Comp./Max. Ten All forces 250
FORCES	(lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.
FORCES	(lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. 2-3=-2070/0, 3-4=-3383/0, 4-5=-3383/0,
FORCES TOP CHORD	(lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. 2-3=-2070/0, 3-4=-3383/0, 4-5=-3383/0, 5-6=-4128/0, 6-7=-4128/0, 7-8=-4128/0,
FORCES	(lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. 2-3=-2070/0, 3-4=-3383/0, 4-5=-3383/0, 5-6=-4128/0, 6-7=-4128/0, 7-8=-4128/0, 8-9=-3390/0, 9-10=-2069/0
FORCES TOP CHORD BOT CHORD	(lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. 2-3=-2070/0, 3-4=-3383/0, 4-5=-3383/0, 5-6=-4128/0, 6-7=-4128/0, 7-8=-4128/0, 8-9=-3390/0, 9-10=-2069/0 19-20=0/1217, 18-19=0/2888, 17-18=0/3855,
FORCES TOP CHORD BOT CHORD	(lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. 2-3=-2070/0, 3-4=-3383/0, 4-5=-3383/0, 5-6=-4128/0, 6-7=-4128/0, 7-8=-4128/0, 8-9=-3390/0, 9-10=-2069/0 19-20=0/1217, 18-19=0/2888, 17-18=0/3855, 16-17=0/4128, 15-16=0/3855, 14-15=0/2888, 12-14=-0/2899, 42-201249
FORCES TOP CHORD BOT CHORD	(lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. 2-3=-2070/0, 3-4=-3383/0, 4-5=-3383/0, 5-6=-4128/0, 6-7=-4128/0, 7-8=-4128/0, 8-9=-3390/0, 9-10=-2069/0 19-20=0/1217, 18-19=0/2888, 17-18=0/3855, 16-17=0/4128, 15-16=0/3855, 14-15=0/2888, 13-14=0/2888, 12-13=0/1218 10 12= 1659/0 2, 20= 1524/0, 10 12=0/1407
FORCES TOP CHORD BOT CHORD WEBS	(lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. 2-3=-2070/0, 3-4=-3383/0, 4-5=-3383/0, 5-6=-4128/0, 6-7=-4128/0, 7-8=-4128/0, 8-9=-3390/0, 9-10=-2069/0 19-20=0/1217, 18-19=0/2888, 17-18=0/3855, 16-17=0/4128, 15-16=0/3855, 14-15=0/2888, 13-14=0/2888, 12-13=0/1218 10-12=-1528/0, 2-20=-1524/0, 10-13=0/1107, 2 12=-0/1110, 0, 12=-1065/0
FORCES TOP CHORD BOT CHORD WEBS	(lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. 2-3=-2070/0, 3-4=-3383/0, 4-5=-3383/0, 5-6=-4128/0, 6-7=-4128/0, 7-8=-4128/0, 8-9=-3390/0, 9-10=-2069/0 19-20=0/1217, 18-19=0/2888, 17-18=0/3855, 16-17=0/4128, 15-16=0/3855, 14-15=0/2888, 13-14=0/2888, 12-13=0/1218 10-12=-1528/0, 2-20=-1524/0, 10-13=0/1107, 2-19=0/1110, 9-13=-1066/0, 3-19=-1065/0, 9-15=0/653, 3-18=-0/64/0, 8-15=-605/0
FORCES TOP CHORD BOT CHORD WEBS	(lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. 2-3=-2070/0, 3-4=-3383/0, 4-5=-3383/0, 5-6=-4128/0, 6-7=-4128/0, 7-8=-4128/0, 8-9=-3390/0, 9-10=-2069/0 19-20=0/1217, 18-19=0/2888, 17-18=0/3855, 16-17=0/4128, 15-16=0/3855, 14-15=0/2888, 13-14=0/2888, 12-13=0/1218 10-12=-1528/0, 2-20=-1524/0, 10-13=0/1107, 2-19=0/1110, 9-13=-1066/0, 3-19=-1065/0, 9-15=0/653, 3-18=-0/644, 8-15=-605/0, 5-18=-614/0, 8-16=-71/673, 5-17=-60/683
FORCES TOP CHORD BOT CHORD WEBS	(lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. 2-3=-2070/0, 3-4=-3383/0, 4-5=-3383/0, 5-6=-4128/0, 6-7=-4128/0, 7-8=-4128/0, 8-9=-3390/0, 9-10=-2069/0 19-20=0/1217, 18-19=0/2888, 17-18=0/3855, 16-17=0/4128, 15-16=0/3855, 14-15=0/2888, 13-14=0/2888, 12-13=0/1218 10-12=-1528/0, 2-20=-1524/0, 10-13=0/1107, 2-19=0/1110, 9-13=-1066/0, 3-19=-1065/0, 9-15=0/653, 3-18=0/644, 8-15=-605/0, 5-18=-614/0, 8-16=-71/673, 5-17=-60/683, 6-17=-299/0, 7-16=-259/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- 2) 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 10-00-00 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	Value Build Homes - Johnson 5-24-111
Q2301528-29	2F04	Floor	2	1	Job Reference (optional)
Carolina Structural Systems, Sta	ar, NC 27356, JSH	Run: 8.62 S Oct 13	2022 Print:	8.620 S Oct	13 2022 MiTek Industries, Inc. Thu Sep 28 14:14:55 Page

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

1-2-0

													_
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOI	1 00	TC	0.70	Vert(LL)	-0.13	11-12	>999	480	MT20	244/190	
TCDI	10.0	Lumber DOI	1.00	BC	0 79	Vert(CT)	-0.18	11-12	>761	360			
BCU	0.0	Ren Stress Incr	VES	WB	0.70	Horz(CT)	0.02	10	n/a	n/a			
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S	0.00	11012(01)	0.02	10	n/a	Π/α	Weight: 78 lb	FT = 20%F, 11%E	
							-		-				_
	2v/LSP No 2(flat)												
	2x4 SP No.2(flat)												
WERS	2x4 SP No.2(flat) 2x4 SP No.3(flat)												
OTHERS	2x4 SP No 3(flat)												
	2x+ 01 110.3(ilat)												
TOP CHORD	Structural wood she	eatning directly applied	1 or										
	6-0-0 oc puriins, ex	cept end verticals.											
BUICHURD	kigia celling alrecuy	y applied of 6-0-0 oc											
	bracing.												
REACTIONS	(lb/size) 10=596/0)-3-8, (min. 0-1-8),											
	15=983/0)-3-8, (min. 0-1-8), 17=	60/										
	Mechanic	cal, (min. 0-1-8)											
	Max Uplift 17=-69 (L	_C 4)											
	Max Grav 10=598 (I	LC 4), 15=983 (LC 1),											
	17=180 (I	LC 8)											
FORCES	(lb) - Max. Comp./M	lax. Ten All forces 25	50										
	(lb) or less except w	vhen shown.											
TOP CHORD	2-3=-78/380, 3-4=-4	427/0, 4-5=-1493/0,											
	5-6=-1493/0, 6-7=-1	1493/0, 7-8=-1144/0											
BOT CHORD	15-16=-559/23, 14-	15=-545/31, 13-14=0/9	985,										
	12-13=0/1493, 11-1	2=0/1483, 10-11=0/73	3										
WEBS	3-15=-938/0, 2-16=-	-371/0, 3-16=0/308,											
	8-10=-917/0, 8-11=0	0/534, 7-11=-442/0,											
	5-13=-304/0, 3-14=	0/828, 4-14=-837/0,											
	4-13=0/679												
NOTES													
1) Unbalance	ed floor live loads hav	e been considered for											
this desigr	۱.												
2) All plates	are 3x3 MT20 unless	otherwise indicated.											
2) Defer to a	irdor(a) for truca to tru	iss connections											

- Refer to girder(s) for truss to truss connections.
 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 69 lb uplift at joint 17
- This truss is designed in accordance with the 2015 5) 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 10-00-00 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.

Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Johnson 5-24-111
Q2301528-29	2F05	Floor	1	1	Job Reference (optional)

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1-2-0







Scale = 1:23.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.21	Vert(LL)	0.00	5	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.09	Vert(CT)	0.00	5-6	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 22 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
BRACING	
TOP CHORD	Structural wood sheathing directly applied or
	3-7-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc
	bracing.
REACTIONS	(lb/size) 4=186/0-3-8, (min. 0-1-8), 6=186/
	Mechanical, (min. 0-1-8)
FORCES	(lb) - Max. Comp./Max. Ten All forces 250
	(lb) or less except when shown.
NOTES	
 Refer to ai 	rder(s) for truss to truss connections.

- 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 10-00-00 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. LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Johnson 5-24-111
Q2301528-29	2F06	Floor	5	1	Job Reference (optional)

Carolina Structural Systems, Star, NC 27356, JSH Run: 8.62 S Oct 13 2022 Print: 8.620 S Oct 13 2022 MiTek Industries, Inc. Thu Sep 28 14:14:56 Page: 1 ID:aNXsk_p2Zb4w_gBACcfhGSyZcrm-XghWbXlheG3dlMUwqdQxUlX8sVOCcSFb4D36XyyZ59T



-2-0

Scale = 1:29.6

Loading (psf) Spacing 2-0-0 CSI DEFL l/defl L/d PLATES GRIP in (loc) TCLL 40.0 Plate Grip DOL 1.00 тс 0.63 Vert(LL) -0.14 9-10 >962 480 MT20 244/190 TCDI Lumber DOL BC Vert(CT) -0.19 360 10.0 1.00 0.92 9-10 >738 BCLL 0.0 Rep Stress Incr YES WB 0.28 Horz(CT) 0.02 8 n/a n/a BCDL IRC2015/TPI2014 Weight: 59 lb FT = 20%F, 11%E 5.0 Code Matrix-S LUMBER TOP CHORD 2x4 SP No.2(flat) 2x4 SP No.2(flat) BOT CHORD 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, Except: 2-2-0 oc bracing: 10-11. **REACTIONS** (lb/size) 8=633/0-3-8, (min. 0-1-8), 13=633/0-3-8, (min. 0-1-8) FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1219/0, 3-4=-1722/0, 4-5=-1722/0, 5-6=-1227/0 BOT CHORD 12-13=0/761, 11-12=0/1722, 10-11=0/1722, 9-10=0/1615, 8-9=0/779 WEBS 6-8=-975/0, 2-13=-951/0, 6-9=0/583, 2-12=0/596, 5-9=-506/0, 3-12=-660/0, 5-10=-44/361 NOTES Unbalanced floor live loads have been considered for 1) this design. This truss is designed in accordance with the 2015 2) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

<u>11-10-8</u> 11-10-8

 Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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	Value Build Homes - Johnson 5-24-111
Q2301528-29	2F07	Floor	1	1	Job Reference (optional)

Run: 8.62 S Oct 13 2022 Print: 8.620 S Oct 13 2022 MiTek Industries, Inc. Thu Sep 28 14:14:56 Page: 1 ID:eL2E8Mp605X8SQ26ZYe97yyZcqT-XghWbXIheG3dIMUwqdQxUIX8iVOMcSeb4D36XyyZ59T



Scale = 1:29.4

1-2-0

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	-0.14	11-12	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.91	Vert(CT)	-0.19	11-12	>749	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.02	10	n/a	n/a	M	
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 80 lb	FT = 20%F, 11%E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD	2x4 SP No.2(flat) 2x4 SP No.2(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing, Except: 6-0-0 oc bracing: 16	eathing directly applied cept end verticals. / applied or 10-0-0 oc 6-17,15-16.	or									
REACTIONS	(lb/size) 10=590/0 15=1014/ 17=67/0-3 Max Uplift 17=-72 (L Max Grav 10=592 (I 17=197 (I	-3-8, (min. 0-1-8), 0-3-8, (min. 0-1-8), 3-8, (min. 0-1-8) .C 4) LC 4), 15=1014 (LC 1), LC 8)										
FORCES	(lb) - Max. Comp./M	lax. Ten All forces 25	0									
	(ID) or less except w $2_3 = 100/375$ $3_4 = 100/375$	/nen snown. -34/643 4-5=-871/0										
	5-6=-1467/0. 6-7=-1	467/0. 7-8=-1129/0										
BOT CHORD	15-16=-643/34, 14-1	15=0/422, 13-14=0/146	67,									
	12-13=0/1467, 11-12	2=0/1462, 10-11=0/726	3									
WEBS	3-15=-459/0, 8-10=-	-908/0, 4-15=-980/0,										
	8-11=0/525, 4-14=0	/668, 7-11=-433/0,										
	5-14=-768/0, 2-16=-	-404/0, 3-16=0/384										
1) Unbalance	ed floor live loads hav	e been considered for										
this design	1. ara 2v2 MT20 unless	othomulas indicated										
2) All plates :	are 3x3 MI20 unless	(by others) of trues to										
bearing nl	ate canable of withsta	nding 72 lb unlift at ioi	nt									
17.												
4) This truss	is designed in accord	lance with the 2015										
Internation	nal Residential Code s	sections R502.11.1 and	i									
R802.10.2	and referenced stand	dard ANSI/TPI 1.										
5) Recomme	end 2x6 strongbacks, o	on edge, spaced at										
10-00-00	oc and fastened to ea	ch truss with 3-10d										
(0.131" X	3") nails. Strongback	s to be attached to wal	IS									
	Do not erect trues by	oy omer means. ackwards										
	Standard	aurwalus.										
LOAD OAGE(

Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Johnson 5-24-111
Q2301528-29	2F08	Floor	1	1	Job Reference (optional)

Run: 8.62 S Oct 13 2022 Print: 8.620 S Oct 13 2022 MiTek Industries, Inc. Thu Sep 28 14:14:56 Page: 1 ID:j78uGBR9SGP7W0HtPh2aZDyZcoN-XghWbXIheG3dIMUwqdQxUIX2XVOvcQ4b4D36XyyZ59T



Scale = 1:29.4

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

Loadiı TCLL TCDL	ng	(psf) 40.0 10.0	Spacing Plate Grip DOL Lumber DOL	2-0-0 1.00 1.00	CSI TC BC	0.97 0.94	DEFL Vert(LL) Vert(CT)	in -0.25 -0.34	(loc) 13-14 13-14	l/defl >732 >538	L/d 480 360	PLATES MT20	GRIP 244/190
BCLL BCDL		0.0 5.0	Rep Stress Incr Code	YES IRC2015/TPI2014	WB Matrix-S	0.42	Horz(CT)	0.05	10	n/a	n/a	Weight: 77 lb	FT = 20%F, 11%E
LUMB TOP C BOT C WEBS OTHEI	ER HORD HORD RS	2x4 SP No.2(flat) 2x4 SP No.1(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat)											
BRAC	ING	<u>.</u>											
TOP C	HORD	Structural wood she except end verticals	athing directly applied	3									
BOT C	HORD	Rigid ceiling directly bracing, Except: 2-2-0 oc bracing: 13	applied or 10-0-0 oc 3-14.										
REAC	TIONS	(lb/size) 10=833/0-	-3-8, (min. 0-1-8),										
		16=839/0-	-3-8, (min. 0-1-8)	0									
FURCI	-5	(ID) - Max. Comp./M	ax. Ien All forces 25	0									
ТОР С	HORD	2-3=-1714/0, 3-4=-2	721/0, 4-5=-2956/0,										
		5-6=-2956/0, 6-7=-2	956/0, 7-8=-1695/0										
BOTC	HORD	15-16=0/1034, 14-1	5=0/2372, 13-14=0/29 2-0/2354 10 11-0/10	95, 27									
WEBS		8-10=-1299/0. 2-16=	=-1297/0. 8-11=0/857.	57									
		2-15=0/886, 7-11=-8	357/0, 3-15=-857/0,										
		3-14=0/453, 4-14=-3	357/0, 7-12=0/882,										
		4-13=-272/346, 6-12	2=-335/0										
	5	d flaar live laada karr	- h										
thi	s design		e been considered for										
2) Th Inte	is truss ernation	is designed in accord al Residential Code s	ance with the 2015 sections R502.11.1 and	1									
ко 3) Re	comme	nd 2x6 strongbacks	on edge, spaced at										
10	-00-00 c	oc and fastened to each	ch truss with 3-10d										
(0.	131" X 3	3") nails. Strongbacks	s to be attached to wal	ls									
ati	heir out	er ends or restrained	by other means.										

4) CAUTION, Do not erect truss backwards.

Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Johnson 5-24-111
Q2301528-29	2F09	Floor	5	1	Job Reference (optional)

Run: 8.62 S Oct 13 2022 Print: 8.620 S Oct 13 2022 MiTek Industries, Inc. Thu Sep 28 14:14:56 Page: 1 ID:fQ9xQccem?_5VctEBYqs6tIyZcpP-XghWbXIheG3dIMUwqdQxUIX2XVOCcQEb4D36XyyZ59T



Scale = 1:29

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

Loa TCL TCL	ding .L)L	(psf) 40.0 10.0	Spacing Plate Grip DOL Lumber DOL Pop Stress Incr	2-0-0 1.00 1.00	CSI TC BC	0.97 0.92	DEFL Vert(LL) Vert(CT)	in -0.24 -0.32	(loc) 13-14 13-14	l/defl >757 >552	L/d 480 360	PLATES MT20	GRIP 244/190
BCI	DL	5.0	Code	IRC2015/TPI2014	Matrix-S	0.41	1012(01)	0.04	10	n/a	n/a	Weight: 76 lb	FT = 20%F, 11%E
LUN TOF BOT WE OTH	MBER P CHORD I CHORD BS HERS	2x4 SP No.2(flat) 2x4 SP No.1(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat)											
BR/ TOF BOT	ACING P CHORD F CHORD	Structural wood she except end verticals Rigid ceiling directly bracing, Except: 2-2-0 oc bracing: 13	eathing directly applied, s. / applied or 10-0-0 oc 3-14.										
RE/	ACTIONS ((lb/size) 10=816/0 16=823/ M	-3-8, (min. 0-1-8), ⁄lechanical, (min. 0-1-8)									
FOF	RCES	(lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.											
TOF	P CHORD	2-3=-1674/0, 3-4=-2 5-6=-2828/0, 6-7=-2	644/0, 4-5=-2828/0, 828/0, 7-8=-1653/0										
BOI	CHORD	15-16=0/1013, 14-1 12-13=0/2828, 11-1	5=0/2313, 13-14=0/289 2=0/2299, 10-11=0/101	97, 16									
WEI	BS	8-10=-1272/0, 2-16= 2-15=0/860, 7-11=-8 7-12=0/835, 3-14=0, 4-13=-290/308, 6-12	1270/0, 8-11=0/829, 341/0, 3-15=-833/0, /430, 4-14=-330/0, 2=-360/0										
NOT	TES												
1)	Unbalance this design	d floor live loads have	e been considered for										
2) 3)	Refer to gir This truss i Internation R802.10.2	rder(s) for truss to tru s designed in accord al Residential Code s and referenced stand	ss connections. ance with the 2015 sections R502.11.1 and dard ANSI/TPI 1.										
4)	Recommer 10-00-00 o (0.131" X 3 at their out	nd 2x6 strongbacks, o c and fastened to ea s") nails. Strongbacks er ends or restrained	on edge, spaced at ch truss with 3-10d s to be attached to wal by other means.	ls									
5)	CAUTION.	Do not erect truss ba	ackwards.										

Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Johnson 5-24-111
Q2301528-29	2K01	Floor Supported Gable	2	1	Job Reference (optional)

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Scale = 1:32.8

		1										
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	n/a	-	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 75 lb	FT = 20%F, 11%E
LUMBER												
TOP CHORD	2x4 SP No.2(flat)											
BOT CHORD	2x4 SP No.2(flat)											
WEBS	2x4 SP No.3(flat)											
OTHERS	2x4 SP No.3(flat)											
BRACING												
TOP CHORD	Structural wood she	eathing directly applie	d or									
	6-0-0 oc purlins, except end verticals.											
BOT CHORD	Rigid ceiling directly	y applied or 10-0-0 oc	;									
	bracing.											
REACTIONS	All bearings 17-9-0.											
(lb) -	Max Grav All reaction	ons 250 (lb) or less at	joint									
	(s) 17, 18	8, 19, 20, 21, 22, 24, 2	25,									
	26, 27, 28	3, 29, 30, 31										
FORCES	(lb) - Max. Comp./M	lax. Ten All forces 2	250									
	(lb) or less except w	/hen shown.										
NOTES												
1) All plates a	are 1.5x3 MT20 unles	s otherwise indicated	1.									
2) Gable requ	ures continuous botto	om chord bearing.										
3) Iruss to be	e fully sheathed from	one face or securely										
 Draceu aga Coblo stud 	anist lateral movements and at 1,4,0 or	ni (i.e. diagonai Web).										
5) This trues	is spaced at 1-4-0 00	Jance with the 2015										
Internation	al Residential Code	sections R502 11 1 a	nd									
R802.10 2	and referenced stan	dard ANSI/TPI 1										
	since a start											

- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.

Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Johnson 5-24-111
Q2301528-29	2K02	Floor Supported Gable	1	1	Job Reference (optional)

Run: 8.62 S Oct 13 2022 Print: 8.620 S Oct 13 2022 MiTek Industries, Inc. Thu Sep 28 14:14:56 Page: 1 ID:iZA2C3YMxEogsWRGz99rTPyZckM-XghWbXIheG3dlMUwqdQxUIXGSVcHcWAb4D36XyyZ59T

1-2-0



3x3 II



Scale = 1:20.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	тс	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(TL)	n/a	-	n/a	999			
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	n/a	-	n/a	n/a			
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 18 lb	FT = 20%F, 11%E	

LUMBER

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 3-4-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS	All bearings 3-4-0.
(lb) -	Max Grav All reactions 250 (lb) or less at joint (s) 5, 6, 7, 8
FORCES	(lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.

NOTES

- 1) Gable requires continuous bottom chord bearing.
- 2)́ Truss to be fully sheathed from one face or securely
- Thus to be fully sheared norm one face of securely braced against lateral movement (i.e. diagonal web).
 Gable studs spaced at 1-4-0 oc.
 This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and D9004 40.2 and enforce accordence doublet dNE/UD14.
- R802.10.2 and referenced standard ANSI/TPI 1. 5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.

LOAD CASE(S) Standard

3x3 II

Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Johnson 5-24-111
Q2301528-29	2K09	Floor Supported Gable	1	1	Job Reference (optional)

Run: 8.62 S Oct 13 2022 Print: 8.620 S Oct 13 2022 MiTek Industries, Inc. Thu Sep 28 14:14:56 Page: 1 ID:PVnqJUgeal2F32BBYFKBtWyZckC-XghWbXIheG3dlMUwqdQxUIXGSVcHcWAb4D36XyyZ59T



Scale = 1:29

1-2-0

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	n/a	-	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 65 lb	FT = 20%F, 11%E
LUMBER												
TOP CHORD	2x4 SP No.2(flat)											
BOT CHORD	2x4 SP No.2(flat)											
WEBS	2x4 SP No.3(flat)											
OTHERS	2x4 SP No.3(flat)											
BRACING												
TOP CHORD	Structural wood she	eathing directly applied	or									
	6-0-0 oc purlins, ex	cept end verticals.										
BOT CHORD	Rigid ceiling directly	y applied or 10-0-0 oc										
	bracing.											
REACTIONS	All bearings 15-2-8.											
(lb) -	Max Grav All reaction	ons 250 (lb) or less at j	oint									
	(s) 14, 15	5, 16, 17, 18, 19, 20, 21	,									
	22, 23, 24	4, 25, 26										
FORCES	(lb) - Max. Comp./M	lax. Ten All forces 25	0									
	(lb) or less except w	/hen shown.										
NOTES												
 All plates a 	are 1.5x3 MT20 unles	s otherwise indicated.										
Gable requ	uires continuous botto	om chord bearing.										
3) Truss to be	e fully sheathed from	one face or securely										
braced against lateral movement (i.e. diagonal web).												
 Gable stud This terms 	() Gable studs spaced at 14-0 0C.											
5) I HIS TRUSS	is designed in accord	ance with the 2015	4									
	and referenced stan	dard ANGI/TDI 1	L									
11002.10.2	and releasenced stand	ualu ANOI/TELT.										

- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.

Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Johnson 5-24-111
Q2301528-29	A01	Common Supported Gable	2	1	Job Reference (optional)

Run: 8.62 S Oct 13 2022 Print: 8.620 S Oct 13 2022 MiTek Industries, Inc. Thu Sep 28 14:14:57 Page: 1 ID:pzJNfuojCMXu08lQnnmKY6yZcQg-XghWbXlheG3dlMUwqdQxUIXFVVaZcWrb4D36XyyZ59T



Scale = 1:53.2

Plate Offsets (X, Y): [20:0-3-0,0-3-0]

·		-										
Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0^	Rep Stress Incr		WB	0.05	Horz(CT)	0.00	16	n/a	n/a	Woight: 122 lb	ET - 20%
BCDL	10.0	Code	IRC2015/1P12014	Mainx-AS							weight: 133 b	FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS (lb) - 1	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood shr Rigid ceiling directl All bearings 28-3-0. Max Horiz 2=-46 (LC Max Uplift All uplift 2, 14, 16 24, 25, 2 Max Grav All reacti (s) 2, 14, 24, 25, 2	eathing directly applied. y applied. C 10), 27=-46 (LC 10) 100 (Ib) or less at joint(s 17, 18, 19, 20, 22, 23, 6, 27, 31 ons 250 (Ib) or less at jo 17, 18, 19, 20, 21, 22, 2 7, 31 except 16=313 (LC	 9) Provide mec bearing plate (s) 2, 22, 23 10) This truss is International R802.10.2 a 11) This truss de structural we chord and 1. the bottom c 10AD CASE(S) 	hanical connect e capable of with 24, 25, 26, 20, designed in acc Residential Co- nd referenced s esign requires th od sheathing be 2" gypsum shee hord. Standard	tion (by oth hstanding 1 19, 18, 17, cordance w de sections tandard AN hat a minim e applied di etrock be a	ers) of truss 00 lb uplift a 16, 14, 2, 1 ith the 2015 ; R502.11.1 a (SI/TPI 1. um of 7/16" irectly to the oplied directl	to ti joint 4. and top ty to					
	22), 26=3	313 (LC 21)										
FORCES	(lb) - Max. Comp./M (lb) or less except v	lax. Ten All forces 250 vhen shown.)									
NOTES	() 01 1000 0700pr 1											
1) Unbalance	d roof live loads hav	e been considered for th	nis									
 Ubalanced roof live loads have been considered for this design. Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=28ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Cormer (3)-0-11-0 to 2-1-0, Exterior (2) 2-1-0 to 14-1-8, Cormer (3) 14-1-8 to 17-1-8, Exterior (2) 17-1-8 to 29-2-0 zone; cantilever left and right exposed; C-C C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TP1 1. 4) All plates are 2x4 MT20 unless otherwise indicated. 5) Gable requires continuous bottom chord bearing. 3) Gable studs spaced at 2-0-0 co. 7) This truss has been designed for a 10.0 psf bottom chord live load on concurrent with any other live loads. 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord any other members. 												



			-		-							-	
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.57	Vert(LL)	-0.36	13	>934	360	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.78	13	>434	240	MT18HS	244/190	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.09	8	n/a	n/a			
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.09	15	>999	240	Weight: 133 lb	FT = 20%	
LUMBER			7) This truss de	sign requires	that a minim	um of 7/16"							

BRACING

- TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.1 *Except* B2:2x4 SP No.2
- WEBS 2x4 SP No.3

structural wood sheathing be applied directly to the top

chord and 1/2" gypsum sheetrock be applied directly to

the bottom chord. LOAD CASE(S) Standard

- TOP CHORD Structural wood sheathing directly applied. Rigid ceiling directly applied. Except: BOT CHORD 6-0-0 oc bracing: 12-15
- **REACTIONS** (lb/size) 2=1275/0-3-8, (min. 0-1-8), 8=1275/0-3-8, (min. 0-1-8) Max Horiz 2=-47 (LC 10)
- FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-23=-3033/0, 3-23=-2995/0, 3-24=-2754/0, 4-24=-2675/0, 6-25=-2675/0, 7-25=-2754/0,
- 7-26=-2995/0, 8-26=-3033/0 BOT CHORD 2-16=0/2841, 16-27=0/2101, 14-27=0/2101, 11-14=0/2101, 10-11=0/2101, 8-10=0/2841 WEBS 7-10=-488/117. 3-16=-488/117. 4-6=-1973/90. 15-16=0/756, 4-15=0/846, 6-12=0/940,

NOTES

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

10-12=0/756

- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 14-1-8, Exterior (2) 14-1-8 to 17-1-8, Interior (1) 17-1-8 to 29-2-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated. 3)
- 4) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads. 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- This truss is designed in accordance with the 2015 6) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Johnson 5-24-111
Q2301528-29	A03	Common	12	1	Job Reference (optional)

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Scale = 1:53

				-								
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	тс	0.56	Vert(LL)	-0.23	8-1Ó	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.54	8-10	>625	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.09	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.10	10	>999	240	Weight: 118 lb	FT = 20%
		- -	7) This truss de	esign requires	that a minim	um of 7/16"						
TOP CHORE	2x4 SP No.2		structural wo	ood sheathing	be applied d	irectly to the	top					
BOT CHORE	2x4 SP No.2		chord and 1	2" gypsum she	eetrock be a	pplied direct	ly to					
WEBS	2x4 SP No.3		the bottom of	hord.								
BRACING			LOAD CASE(S)	Standard								
TOP CHORE BOT CHORE	OP CHORD Structural wood sheathing directly applied. OT CHORD Rigid ceiling directly applied.											
REACTIONS	(lb/size) 2=1185	0-3-8, (min. 0-1-8),										
	6=1185	0-3-8, (min. 0-1-8)										
	Max Horiz 2=-47 (Max Uplift 2=-31 (_C 10) _C 12), 6=-31 (LC 12)										
FORCES	(lb) - Max. Comp./	Max. Ten All forces 250	0									
	(lb) or less except	when shown.										
TOP CHORD	2-17=-2765/134, 3	8-17=-2732/155,										
	3-18=-2465/118, 4	-18=-2386/131,										
	4-19=-2386/131, 5	-19=-2465/118,										
	5-20=-2732/155, 0	10-20=-2705/134										
BUT CHURL	8-9=-33/1689 6-8	=_98/2592										
WEBS	4-8=0/825. 5-8=-4	93/129. 4-10=0/825.										
	3-10=-493/129											
NOTES												
1) Unbaland	ed roof live loads ha	ve been considered for t	his									
design.												
2) Wind: AS	CE 7-10; Vult=120m	ph (3-second gust)										
Vasd=95	mpn; ICDL=6.0psf; I	BCDL=6.0pst; n=25tt;										
MWFRS	(directional) and C-C	Exterior $(2) -0.11-0$ to										
2-1-0. Int	erior (1) 2-1-0 to 14-	1-8. Exterior (2) 14-1-8 to)									
17-1-8, Ir	nterior (1) 17-1-8 to 2	9-2-0 zone; cantilever let	ft									
and right	exposed ; end vertic	al left and right exposed;	C-									
C for me	mbers and forces & I	IWFRS for reactions										
shown; L	umber DOL=1.60 pla	te grip DOL=1.60										
 Inis truss 	s has been designed	for a 10.0 pst bottom										
4) * This tru	ss has been designe	d for a live load of 20 0pg	r. ef									
on the bo	This duss has been designed for a live load of 20.00%											
3-06-00 t	-06-00 tall by 2-00-00 wide will fit between the bottom											
chord and	d any other members	i.										
5) Provide r	nechanical connection	n (by others) of truss to										
bearing p	late capable of withs	tanding 31 lb uplift at joir	nt									
2 and 31	id uplift at joint 6.	rdance with the 2015										
Internatio	nal Residential Code	sections R502 11 1 and	I									
R802.10.	Residential Code Sections R502.11.1 and R502.10.2 and referenced standard ANSI/TPI 1.											

Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Johnson 5-24-111
Q2301528-29	B01	Monopitch Supported Gable	1	1	Job Reference (optional)

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Scale = 1:24.3

Plate Offsets (X, Y): [2:Edge,0-0-4]

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	тс	0.17	Vert(LL)	n/a	· -	n/a	999	MT20	244/190
TCDI	10.0	Lumber DOI	1 15	BC	0.35	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	2	n/a	n/a		
BCDI	10.0	Code	IRC2015/TPI2014	Matrix-AS	0.01	11012(01)	0.00	-	n/a	n/a	Weight [.] 20 lb	FT = 20%
		0000		induite to							rroigini 20 is	
			9) This truss d	esian reauires tha	at a minim	um of 7/16"						
TOP CHORE) 2x4 SP No 2		structural w	ood sheathing be	applied d	irectly to the	top					
BOT CHORE) 2x4 SP No 2		chord and 1	/2" gypsum shee	trock be a	pplied directl	ly to					
WEBS	2x4 SP No.3		the bottom of	chord.		••	,					
OTHERS	2x4 SP No.3		LOAD CASE(S)	Standard								
DRACING	EXT OF HOLD		()	otandara								
BRACING	0.4											
TOP CHURL	Structural wood she	eathing directly applied	,									
	except end verticals	5. Copplied										
BUICHURL		y applieu.										
REACTIONS	All bearings 5-0-0.											
(lb) -	- Max Horiz 2=49 (LC	12), 7=49 (LC 12)										
	Max Uplift All uplift 1	100 (lb) or less at joint(s)									
	2, 7											
	Max Grav All reaction	ons 250 (lb) or less at j	oint									
	(s) 2, 5, 7	' except 6=256 (LC 1)										
FORCES	(lb) - Max. Comp./M	lax. Ten All forces 25	50									
	(lb) or less except w	/hen shown.										
NOTES												
1) Wind: AS	CE 7-10; Vult=120mpl	h (3-second gust)										
Vasd=95i	mph; TCDL=6.0psf; BC	CDL=6.0psf; h=25ft;										
B=45ft; L	=24ft; eave=2ft; Cat. II	; Exp B; Enclosed;										
MWFRS	(directional) and C-C (Corner (3) -0-11-0 to										
2-1-0, Ex	terior (2) 2-1-0 to 4-10	-4 zone; cantilever left										
and right	exposed ;C-C for men	nbers and forces &										
MWFRS	for reactions shown; L	umber DOL=1.60 plate	9									
grip DOL	=1.00 signed for wind leads i	in the plane of the true										
2) Husside	signed for wind loads i	in the plane of the trus	5									
See Stan	ard Industry Cable Er	u (normal to the lace), nd Details as applicabl	٥									
or consul	t qualified building des	ianer as ner ANSI/TPI	с, 1									
3) Gable red	ruires continuous hotto	om chord bearing	1.									
4) Gable st	ids spaced at 2-0-0 oc	s s.lora boaring.										
5) This truss	s has been designed for	or a 10.0 psf bottom										
chord live	load nonconcurrent w	vith any other live load	s									
6) * This tru	ss has been designed	for a live load of 20.0p	sf									
on the bo	ottom chord in all areas	where a rectangle										
3-06-00 t	all by 2-00-00 wide wil	I fit between the bottor	n									
chord and	d any other members.											
7) Provide n	nechanical connection	(by others) of truss to										
bearing p	late capable of withsta	anding 100 lb uplift at j	oint									
(s) 2, 2.												
8) This truss	s is designed in accord	lance with the 2015										
Internatio	nal Residential Code	sections R502.11.1 an	d									
R802.10.	2 and referenced stan	dard ANSI/TPI 1.										

Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Johnson 5-24-111
Q2301528-29	B02	Monopitch	10	1	Job Reference (optional)

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2x4 =



Scale = 1:25.8

Plate Offsets (X, Y): [2:Edge,0-0-4]

Carolina Structural Systems, Star, NC 27356, JSH

2-3-6

-							-						
Loading		(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)		20.0	Plate Grip DOL	1.00	TC	0.31	Vert(LL)	-0.02	4-7	>999	360	MT20	244/190
TCDL		10.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.05	4-7	>999	240		
BCLL		0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL		10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.05	4-7	>999	240	Weight: 19 lb	FT = 20%
LUMBER TOP CHORD	2x4 SP No.	2		LOAD CASE(S)	Standard								
WEBS 2x4 SP No.2													
ICP CHORD Structural wood sheathing directly applied, except end verticals.													
BOT CHORD	Rigid ceilin	g directly	/ applied.										
REACTIONS	(lb/size) 2	2=254/0-3	3-0, (min. 0-1-8),										
	4 Max Horiz 2	=189/0-1	1-8, (min. 0-1-8) 12)										
	Max Uplift 2	2=-61 (LC	C 12), 4=-47 (LC 12)										
FORCES	(lb) - Max. (Comp./M	lax. Ten All forces 250)									
(lb) or less except when shown.													
NUIES													
Vasd=95n	SE 7-10, Vult	0nsf: BC	CDI = 6 Opsf: b=25ft										
B=45ft: L=	=24ft: eave=4	ft: Cat. II	: Exp B: Enclosed:										
MWFRS (directional) a	nd C-C E	Exterior (2) -0-11-0 to										
2-1-0, Inte	erior (1) 2-1-0	to 4-10-4	4 zone; cantilever left a	nd									
right expo	sed ; porch le	eft and rig	ght exposed;C-C for										
members	and forces &	MWFRS	for reactions shown;										
Lumber D	OL=1.60 plat	e grip DC	JL=1.60										
 Inis truss chord live 	has been de	signed to	or a 10.0 psr bottom										
3) * This trus	s has been d	esigned	for a live load of 20 0ps	sf									
on the bot	tom chord in	all areas	where a rectangle										
3-06-00 ta	all by 2-00-00	wide will	I fit between the bottom	l									
chord and	any other me	embers.											
4) Bearing a	t joint(s) 4 coi	nsiders p	arallel to grain value										
using ANSI/TPI 1 angle to grain formula. Building													
5) Provide m	should verify (capacity	or bearing surface.										
bearing plate at ionit(s) 4.													
6) Provide m	echanical co	nnection	(by others) of truss to										
bearing pl	ate capable o	of withsta	anding 61 lb uplift at joir	nt									
2 and 47 I	b uplift at join	nt 4.	- , , ,										
7) This truss) 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. This truss design requires that a minimum of 7/16" 8)
- structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Johnson 5-24-111
Q2301528-29	B03	Monopitch Structural Gable	1	1	Job Reference (optional)

2-3-6

0-4-3

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W

2x4 II







2

2x4 =



6

2x4 II

Scale = 1:26.5

Plate Offsets (X, Y): [2:Edge,0-0-4]

Loading TCLL (roof) TCDL	(psf) 20.0 10.0	Spacing Plate Grip DOL Lumber DOL	2-0-0 1.00 1.15	CSI TC BC	0.26 0.30	DEFL Vert(LL) Vert(CT)	in -0.03 -0.06	(loc) 6-9 6-9	l/defl >999 >940	L/d 360 240	PLATES MT20	GRIP 244/190
BCLL BCDL	0.0* 10.0	Rep Stress Incr Code	YES IRC2015/TPI2014	WB Matrix-AS	0.01	Horz(CT) Wind(LL)	0.00 0.05	2 6-9	n/a >999	n/a 240	Weight: 20 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Structural wood sh except end vertica Rigid ceiling direct	neathing directly applied ls. ly applied.	 9) This truss is Internationa R802.10.2 a 10) This truss distruss distruss distruss distribution chord and 1, the bottom c COAD CASE(S) 	designed in acc I Residential Cou Ind referenced s esign requires th bod sheathing be (2" gypsum shee hord. Standard	cordance w de sections tandard AN nat a minim e applied di etrock be a	ith the 2015 i R502.11.1 ISI/TPI 1. um of 7/16" irectly to the oplied direct	and top ly to					
REACTIONS	(Ib/size) 2=254/0 5=189/0 Max Horiz 2=51 (L Max Uplift 2=-61 (L	-3-0, (min. 0-1-8), -1-8, (min. 0-1-8) C 12) .C 12), 5=-47 (LC 12)										
FORCES	(lb) - Max. Comp.//	Max. Ten All forces 25	0									
NOTES 1) Wind: AS Vasd=95r B=45ft; L: MWFRS 2-1-0, Intoright exponent inght exponent Lumber D 2) Truss de only. For see Stand or consult 3) Gable stu 4) This truss chord live	CE 7-10; Vult=120mp mph; TCDL=6.0ps; E 24ft; eave=4ft; Cat. (directional) and C-C erior (1) 2-1-0 to 4-10 sed ; porch left and I and forces & MWFR OL=1.60 plate grip I signed for wind loads studs exposed to wi dard Industry Gable E t qualified building de ds spaced at 2-0-0 c b has been designed load nonconcurrent	ch (3-second gust) SCDL=6.0psf; h=25ft; II; Exp B; Enclosed; Exterior (2) -0-11-0 to 0-4 zone; cantilever left a right exposed;C-C for S for reactions shown; DOL=1.60 s in the plane of the truss and (normal to the face), End Details as applicable rsigner as per ANSI/TPI c. for a 10.0 psf bottom with any other live loads	and s e, 1.									
5) * This true on the bo	ss has been designed ttom chord in all area	d for a live load of 20.0p	sf									

- 5) 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 2, 5.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 61 lb uplift at joint 2 and 47 lb uplift at joint 5.

Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Johnson 5-24-111
Q2301528-29	C01	Common Structural Gable	1	1	Job Reference (optional)

2-4-0

0-4-3

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Scale = 1:28.4

2-7-3

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.28	Vert(LL)	-0.05	10-13	>999	360	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.09	10-13	>999	240	I		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.01	6	n/a	n/a	I		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.06	8-16	>999	240	Weight: 45 lb	FT = 20%	
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	IMBER DP CHORD 2x4 SP No.2 DT CHORD 2x4 SP No.2 ITHERS 2x4 SP No.3 RACING 2x4 SP No.3 DP CHORD Structural wood sheathing directly applied. DT CHORD Rigid ceiling directly applied. EACTIONS (lb/size) 2=515/0-4-8, (min. 0-1-8), 6=515/0-4-8, (min. 0-1-8)			 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 124 lb uplift at joint 2 and 124 lb uplift at joint 6. 8) 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. 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the tot the bottom chord. 									
	Max I Inlift 2=-124 (I	(10) (12) 6=-124 (1 C 12)	LUAD CASE(S)										
FORCES	(lb) - Max. Comp./M (lb) or less except w	ax. Ten All forces 250 hen shown.	I										
TOP CHORD 2-17=-864/552, 17-18=-839/552, 3-18=-830/557, 3-4=-832/563, 4-5=-832/563 5-19=-830/557, 19-20=-839/552, 6-20=-864/552			3,										
BOT CHORD	2-10=-485/796, 9-10 8-9=-485/796, 6-8=-)=-485/796, -485/796											
WEBS	4-9=-203/258												
NOTES													
1) Unbalanc design.	ed roof live loads have	e been considered for th	iis										
Wind ASI	CE 7_10: \/ult=120mpl	(3-second qust)											

- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 5-11-8, Exterior (2) 5-11-8 to 8-11-8, Interior (1) 8-11-8 to 12-10-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 Gable studs spaced at 2-0-0 cc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Johnson 5-24-111
Q2301528-29	C02	Common	4	1	Job Reference (optional)

2-4-0

0-4-3

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Scale = 1:28.4

2-7-3

Loa	ading	(ps	f) Spacir	ng	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCI	LL (roof)	20.	0 Plate G	Grip DOL	1.00	тс	0.37	Vert(LL)	-0.04	6-9	>999	360	MT20	244/190	
TCI	DL	10.	0 Lumbe	r DOL	1.15	BC	0.41	Vert(CT)	-0.08	6-9	>999	240			
BC	LL	0.	0* Rep St	ress Incr	YES	WB	0.10	Horz(CT)	0.01	4	n/a	n/a			
BC	DL	10.	0 Code		IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.06	6-12	>999	240	Weight: 42 lb	FT = 20%	
	MBER				7) This truss d	esign requires	s that a minim	um of 7/16"			-		-	-	
TO	P CHORD	2x4 SP No.2			structural we	ood sheathing	g be applied d	irectly to the	top						
BO	T CHORD	2x4 SP No.2			chord and 1	/2" gypsum s	heetrock be a	pplied direct	ly to						
WE	BS	2x4 SP No.3			the bottom of	hord.									
BRACING LOAD CASE(S) Standard															
TO	P CHORD	Structural wood	l sheathing d	irectly applied											
BO	T CHORD	Rigid ceiling dir	ectly applied												
DE		(lb/cizo) 2-53	2/0 / 8 (min	0 1 8)											
	ACTIONS	(10/5120) 2-53	2/0-4-8, (min 2/0-4-8, (min	0-1-8)											
		Max Horiz 2=-20) (LC 10)												
		Max Uplift 2=-12	28 (LC 12). 4	=-128 (LC 12)											
FO	RCES	(lb) - Max. Com	p./Max. Ten.	- All forces 25	0										
		(lb) or less exce	pt when sho	wn.											
TOF	P CHORD	2-13=-881/562,	13-14=-849/	562,											
		3-14=-849/577,	3-15=-849/5	77,											
_	15-16=-849/562, 4-16=-881/562														
BO	CHORD	2-6=-494/806, 4	-6=-494/806												
WE	BS	3-6=-212/263													
NO	TES														
1)	Unbalance	ed roof live loads	have been co	onsidered for t	this										
2)	design.)mmh (2 agas	and autot)											
2)	Vaed=05m	J = 7 - 10; Vuit= 120	f BCDI =6 0	na gusi) nef: h=25ft:											
	B=45ft I =	:24ft: eave=4ft: C	at II: Exp B:	Enclosed:											
	MWFRS (directional) and C	-C Exterior (2) -0-11-0 to											
	2-1-0, Inte	erior (1) 2-1-0 to 5	-11-8, Exterio	or (2) 5-11-8 to)										
	8-11-8, Int	erior (1) 8-11-8 to	12-10-0 zon	e; cantilever l	eft										
	and right e	exposed ; end ver	tical left and	right exposed	;										
	porch left	and right exposed	l;C-C for me	mbers and for	ces										
	& MWFRS	of for reactions sho	own; Lumber	DOL=1.60 pla	ate										
2)	grip DOL=	1.60	ad for a 10.0	nof bottom											
3)	chord live	load nonconcurre	eu ior a 10.0	ther live loads											
4)	* This trus	s has been desig	ned for a live	load of 20 0p	s. Isf										
• /	on the bot	tom chord in all a	reas where a	rectangle											
	3-06-00 ta	II by 2-00-00 wide	e will fit betwe	een the botton	n										
	chord and	any other memb	ers.												
5)	Provide m	echanical connec	tion (by othe	ers) of truss to											
	bearing pl	ate capable of wit	hstanding 12	28 lb uplift at jo	pint										
~	2 and 128	Ib uplift at joint 4													
0)	I I I IS Truss	is designed in ac	cordance wit	n the 2015	4										
	R802.10.2	and referenced	standard ANS	SI/TPI 1.	4										