Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Morse 23-86-9
Q2300326	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. Wed Mar 08 08:06:47 Page: 1 ID:p73tio0yqLU3mc4TETmmcVzdnkq-QSBfnI7QXuYu16q?Dg50AcKHhVETVRE7H46NqUzd3_0



Scale = 1:54.6

Plate Offsets (X, Y): [5:0-3-0,0-3-0], [11:0-3-0,0-3-0]

Loa	ading		(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
тс	LL (roof)		20.Ó	Plate Grip DOL	1.00	тс	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
тс	DLÌ		10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	n/a	-	n/a	999		
BC	LL		0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	17	n/a	n/a		
BC	DL		10.0	Code	IRC2015/TPI2014	Matrix-AS		(-)					Weight: 139 lb	FT = 20%
	MBER P CHORD	2x4 SP No 2	, ,		9) Provide med bearing plat	hanical connect chapable of with	ion (by oth	ers) of truss 00 lb uplift a	to at ioint				1	
BO OT	T CHORD HERS	2x4 SP No.2 2x4 SP No.3	2		(s) 2, 23, 24 10) This truss is	, 25, 26, 27, 20, designed in acc	19, 18, 17 ordance w	, 16, 14, 2, 1 ith the 2015	4.					
BR	ACING				Internationa	Residential Co	de sections	8 R502.11.1 a	and					
TO BO	P CHORD T CHORD	Structural w Rigid ceiling	ood she I directly	athing directly applied. applied.	R802.10.2 a 11) This truss de structural we	nd referenced si esign requires th ood sheathing be	tandard AN at a minim a applied d	ISI/TPL1. um of 7/16" irectly to the	ton					
RE	ACTIONS	All bearings 2	9-3-8.	40) 00- 40 (1 0 40)	chord and 1	/2" gypsum shee	etrock be a	pplied direct	ly to					
	- (di)	Max Horiz 2= Max Uplift Al 2.	-49 (LC I uplift 1 14. 16.	, 10), 28=-49 (LC 10) 00 (lb) or less at joint(s) 17, 18, 19, 20, 23, 24,	LOAD CASE(S)	Standard								
		25 Max Grav Al	5, 26, 27 L reactio	7, 28, 32 ups 250 (lb) or less at io	int									
		(s) 2, 14,	17, 18, 19, 20, 22, 23, 2	24,									
		22	26, 26, 28 2), 27=3	73 (LC 21)	,									
FO	RCES	(lb) - Max. C (lb) or less e	omp./Ma xcept w	ax. Ten All forces 250 hen shown.	1									
NO	TES													
1)	Unbalance	ed roof live loa	ids have	e been considered for th	iis									
2)	design.		100	(2 accord quat)										
2)	Vasd=95m	SE 7-10; Vuil= 0.000 = 6 (nsf BC	COI = 6 Opsf: b=25ft:										
	B=45ft ⁻ I =	=29ft eave=2ft	r Cat II	Exp B: Enclosed										
	MWFRS (directional) an	d C-C C	Corner (3) -0-11-0 to										
	2-1-0, Ext	erior (2) 2-1-0	to 14-7-	12, Corner (3) 14-7-12	to									
	17-7-12, E	Exterior (2) 17-	7-12 to	30-2-8 zone; cantilever										
	left and rig	ght exposed;	end verti	ical left and right										
	exposed;C	C-C for membe	ers and f	forces & MWFRS for										
	reactions :	shown; Lumbe	er DOL=	1.60 plate grip										
3)	Truss des	signed for wind	loads i	n the plane of the truss										
	only. For	studs exposed	to wind	d (normal to the face),										
	see Stand	ard industry G	ing doci	id Details as applicable	,									
4)	All plates :	are 2x4 MT20	unless (otherwise indicated	•									
5)	Gable reg	uires continuo	us botto	om chord bearing										
6)	Gable stud	ds spaced at 2	2-0-0 oc.											
7)	This truss	has been des	igned fo	or a 10.0 psf bottom										
·	chord live	load nonconc	urrent w	ith any other live loads.										
8)	* This trus	s has been de	esigned t	for a live load of 20.0ps	f									
	on the bot	tom chord in a	all areas	where a rectangle										
	3-06-00 ta chord and	any other me	wide will mbers.	TIL between the bottom										

Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Morse 23-86-9
Q2300326	A02	Common	8	1	Job Reference (optional)

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Scale = 1:54.6

Loadi	ng	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
	(roof)	20.0	Plate Grip DOL	1.00		0.61	Vert(LL)	-0.20	10-12	>999	360	MT20	244/190	
BCU		10.0	Rep Stress Incr	1.15 VES	WB	0.75	Horz(CT)	-0.46	10-12	>/3/ n/a	240 n/a			
BCDL		10.0	Code	IRC2015/TPI2014	Matrix-AS	0.00	Wind(LL)	0.00	12-15	>999	240	Weight: 123 lb	FT = 20%	
LUMB TOP (BOT (WEBS BRAC TOP (BOT (ER HORD HORD	2x4 SP No.2 2x4 SP No.1 2x4 SP No.3 Structural wood she Rigid ceiling directly	eathing directly applied / applied.	 6) This truss is Internationa R802.10.2 a 7) This truss do structural we chord and 1 the bottom c 	designed in ac I Residential Co and referenced s esign requires t bod sheathing b /2" gypsum she chord.	cordance w ode sections standard AN that a minim be applied di setrock be a	ith the 2015 R502.11.1 ISI/TPI 1. um of 7/16" irectly to the pplied direct	and top tly to						
REAC	TIONS	(lb/size) 2=1227/0	-3-8. (min. 0-1-8).	LOAD CASE(S)	Standard									
		8=1227/0 Max Horiz 2=49 (LC Max Uplift 2=-31 (LC	-3-8, (min. 0-1-8) 11) 2 12), 8=-31 (LC 12)											
FORC	ES	(lb) - Max. Comp./M	lax. Ten All forces 25	0										
		(lb) or less except w	/hen shown.											
	NORD	2-192889/142, 3- 3-4=-2549/108, 4-20 5-20=-2465/133, 5-2 6-21=-2474/119, 6-7)=-2474/119, 21=-2465/133, 7=-2549/108,											
	HUBD	7-22=-2858/164, 8-2	22=-2889/142											
		10-11=-32/1763, 8-1	10=-104/2711											
WEBS		5-10=0/840, 7-10=-5 3-12=-532/135	532/135, 5-12=0/840,											
NOTE	s													
1) Ur	balance	ed roof live loads have	e been considered for t	his										
de 2) \//	sign.	CE 7 10: Vult-120mph	a (3 second quet)											
2) Va	sd=95n	nph: TCDL=6.0psf: BC	CDL=6.0psf: h=25ft:											
B=	45ft; L=	=29ft; eave=4ft; Cat. II	; Exp B; Enclosed;											
M١	NFRS (directional) and C-C E	Exterior (2) -0-11-0 to											
2-'	1-0, Inte	erior (1) 2-1-0 to 14-7-	12, Exterior (2) 14-7-12	2										
lef	t and rid	t exposed · end vert	tical left and right											
ex	posed;	C-C for members and	forces & MWFRS for											
rea	actions	shown; Lumber DOL=	1.60 plate grip											
D(2) ть	JL=1.60) boo boon doolared fo	ar a 10.0 paf batters											
o) in ch	ns truss ord live	load nonconcurrent w	ith any other live loads	3										
4) * T	his trus	s has been designed	for a live load of 20.0p	sf										
on	the bot	ttom 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.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 2 and 21 lb will be being to a second bearing and the second bear second bearing and the second bearing and the second bearing and the second bear second bearing and the second bear second bear second bearing and the second bear second bear second bearing and the second bear second

2 and 31 lb uplift at joint 8.

Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Morse 23-86-9
Q2300326	A03	Common	3	1	Job Reference (optional)

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Page: 1



Plate Offsets (X, Y): [5:0-2-4,0-1-8], [6:0-2-0,Edge], [7:0-2-4,0-1-8]

Carolina Structural Systems, Star, NC 27356, JSH

			, 1									
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	0.68	Vert(LL)	-0.37	14-15	>955	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.79	14-15	>444	240	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.10	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.11	18-21	>999	240	Weight: 137 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.1 *Excep 2x4 SP No.3 Structural wood she Rigid ceiling directly 6-0-0 oc bracing: 14	ot* B2:2x4 SP No.2 eathing directly applied. / applied. Except: 4-17	 6) This truss is International R802.10.2 a 7) This truss di structural wo chord and 1, the bottom o LOAD CASE(S) 	designed in ac I Residential C Ind referenced esign requires bod sheathing /2" gypsum she chord. Standard	ccordance w ode sections standard AN that a minim be applied di eetrock be a	ith the 2015 R502.11.1 a ISI/TPI 1. um of 7/16" irectly to the pplied directl	and top ly to					
REACTIONS	(lb/size) 2=1317/0 10=1317/ Max Horiz 2=-49 (LC	-3-8, (min. 0-1-9), 0-3-8, (min. 0-1-9) C 10)										
FORCES	(lb) - Max. Comp./M	lax. Ten All forces 250)									
TOP CHORD	(lb) or less except w 2-25=-3162/0, 3-25= 4-26=-2779/0, 5-26= 8-27=-2779/0, 8-9=- 10-28=-3162/0	/hen shown. =-3126/0, 3-4=-2844/0, =-2760/0, 7-27=-2760/0 -2844/0, 9-28=-3126/0,	,									
BOT CHORD	2-18=0/2966, 18-29	=0/2180, 16-29=0/2180),									
WEBS	9-12=-530/122, 3-18 5-7=-2059/98, 17-18 7-14=0/957, 12-14=	8=-530/122, 8=-530/122, 8=0/773, 5-17=0/859, 0/777										
NOTES												
1) Unbalanc	ed roof live loads have	e been considered for th	nis									
design.												
2) Wind: AS	CE 7-10; Vult=120mph	n (3-second gust)										
Vasd=95r	nph; TCDL=6.0psf; BC	CDL=6.0psf; h=25ft;										
B=45ft; L:	=29ft; eave=4ft; Cat. II	; Exp B; Enclosed;										

Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=29ft; 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 14-7-12, Exterior (2) 14-7-12 to 17-7-12, Interior (1) 17-7-12 to 30-2-8 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

All plates are MT20 plates unless otherwise indicated.
 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.



- DOL=1.60 3) All plates are MT20 plates unless otherwise indicated.
- 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.
- 6) 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.

Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Morse 23-86-9
Q2300326	A05	Common	1	1	Job Reference (optional)

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Scale = 1:53.2

Loading TCLL (roof)	(psf) 20.0	Spacing Plate Grip DOL	2-0-0 1.00	CSI TC	0.62	DEFL Vert(LL)	in -0.20	(loc) 8-10	l/defl >999	L/d 360	PLATES MT20	GRIP 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.48	8-10	>737	240		
BCLL BCDL	0.0* 10.0	Rep Stress Incr Code	YES IRC2015/TPI2014	WB Matrix-AS	0.35	Horz(CT) Wind(LL)	0.09 0.11	6 10-13	n/a >999	n/a 240	Weight: 121 lb	FT = 20%
	2v4 SD No 2		6) This truss is	designed in acc	cordance w	ith the 2015	and	_				
BOT CHORD WEBS	2x4 SP No.2 2x4 SP No.1 2x4 SP No.3		R802.10.2 a 7) This truss d	nd referenced s	standard AN	ISI/TPI 1. um of 7/16"	anu					
BRACING TOP CHORD BOT CHORD	Structural wood she Rigid ceiling directly	eathing directly applied y applied.	structural we chord and 1 the bottom o	ood sheathing b /2" gypsum she hord. Standard	e applied di etrock be a	irectly to the pplied direct	top ly to					
REACTIONS	(lb/size) 1=1171/0 6=1228/0	-3-8, (min. 0-1-8), I-3-8, (min. 0-1-8)		Otanuaru								
	Max Horiz 1=-50 (LC Max Uplift 1=-8 (LC	C 10) 12), 6=-32 (LC 12)										
FORCES	(lb) - Max. Comp./M (lb) or less except w	lax. Ten All forces 25 /hen shown.	0									
TOP CHORD	1-17=-2898/162, 2- 2-18=-2556/133, 3- 3-19=-2467/136, 4- 4-5=-2552/111, 5-20	17=-2867/178, 18=-2472/147, 19=-2476/124,)=-2860/169,										
BOT CHORD	6-20=-2892/147 1-10=-108/2720, 9-	10=-37/1765,										
WEBS	8-9=-37/1765, 6-8=- 3-8=0/840, 5-8=-532 2-10=-535/135	-109/2714 2/135, 3-10=0/846,										
NOTES	2-10000/100											
1) Unbalance	ed roof live loads have	e been considered for t	this									
design.												
2) Wind: ASC	CE 7-10; Vult=120mpl	h (3-second gust)										
B=45ft: L=	29ft: eave=4ft: Cat. II	: Exp B: Enclosed:										
MWFRS (directional) and C-C E	Exterior (2) 0-0-0 to 3-0)-0,									
Interior (1)	3-0-0 to 14-7-12, Ex	terior (2) 14-7-12 to										
17-7-12, If left and rid	nterior (1) 17-7-12 to a ht exposed : end ver	30-2-8 zone; cantilever	ſ									
exposed;C	C-C for members and	forces & MWFRS for										
reactions s DOL=1.60	shown; Lumber DOL=	=1.60 plate grip										
 This truss chord live 	has been designed for load nonconcurrent w	or a 10.0 psf bottom vith anv other live loads	S.									

- 4) * 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.
- chord and any other members.5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 1 and 32 lb uplift at joint 6.

Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Morse 23-86-9
Q2300326	B01	Common Supported Gable	1	1	Job Reference (optional)

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2x4 =



4x5 =





2x4 =

4 [



2x4 II

Scale = 1:23.3

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	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL		10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	n/a	-	n/a	999		
BCLL		0.0*	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	4	n/a	n/a		
BCDL		10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 20 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS / (lb) - 1	2x4 SP N 2x4 SP N 2x4 SP N Structura Rigid cei All bearing Max Horiz	No.2 No.2 No.3 Al wood she Iling directly gs 5-4-0. : 2=10 (LC	eathing directly applied. / applied. 11), 7=10 (LC 11)	 8) Provide metbearing plat (s) 2, 4, 6, 2 9) Beveled pla surface with 10) This truss is Internationa R802.10.2 ¢ 11) This truss d structural webbear 	chanical conne e capable of w ; 4. te or shim requ truss chord at designed in a I Residential C und referenced esign requires pod sheathing	ction (by oth ithstanding 1 irred to provi joint(s) 4. ccordance w ode sections standard AN that a minim be applied d	ers) of truss 100 lb uplift a de full bearir ith the 2015 s R502.11.1 a ISI/TPI 1. um of 7/16" irectly to the	to It joint Ing and top					
ſ	Max Uplift	All uplift 1 2, 4, 6, 7,	00 (lb) or less at joint(s 13	the bottom	/2" gypsum sn chord.	eetrock de a	ppilea airecti	iy to					
1	Max Grav	All reactio (s) 2, 4, 7	ons 250 (lb) or less at jo , 13 except 6=520 (LC	pint LOAD CASE(S) 1)	Standard								
FORCES	(lb) - Max	k. Comp./M	ax. Ten All forces 25	0									
	(lb) or les	ss except w	hen shown.										
TOP CHORD	2-15=-40	6/445, 3-15	5=-401/450,										
	3-16=-39	7/458, 4-16	6=-401/445										
	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	1440 4 0-	400/440										

BOT CHORD 2-6=-422/449, 4-6=-422/449 3-6=-379/337

WEBS

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 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=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) -0-11-0 to 2-1-0, Exterior (2) 2-1-0 to 2-8-0, Corner (3) 2-8-0 to 5-8-0, Exterior (2) 5-8-0 to 6-3-0 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
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 - Morse 23-86-9
Q2300326	B02	Common	2	1	Job Reference (optional)

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Carolina Structural Systems, Star, NC 27356, JSH

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3x4 =





5-4-0

2x4 =



Scale = 1:23.3

Plate Offsets (X, Y): [2:0-0-2,Edge], [3:0-2-0,Edge], [4:0-0-2,Edge]

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	0.14	Vert(LL)	-0.01	8-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.02	8-11	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.02	8-11	>999	240	Weight: 19 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied. BOT CHORD Rigid ceiling directly applied.

REACTIONS (lb/size) 2=268/0-3-0, (min. 0-1-8), 4=268/0-3-0, (min. 0-1-8) Max Horiz 2=11 (LC 11) Max Uplift 2=-70 (LC 12), 4=-70 (LC 12)

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

TOP CHORD

2-13=-265/198, 4-14=-265/198

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 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 2-8-0, Exterior (2) 2-8-0 to 5-8-0, Interior (1) 5-8-0 to 6-3-0 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
- This truss has been designed for a 10.0 psf bottom 3) chord live load nonconcurrent with any other live loads.
- 4) * 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 70 lb uplift at joint 2 and 70 lb uplift at joint 4.
- 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.
- This truss design requires that a minimum of 7/16" 7) 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