

RE: P230875-01 - Roof - HR Lot 169

Site Information:

Project Customer: Summit Homes Project Name: Somerview - Craftsman Lot/Block: 169 Subdivision: Hawthorne Ridge Model:

Address: 3204 SW Arbor Sound Dr

City: Lee's Summit

State: MO

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2018/TPI2014 Wind Code: ASCE 7-16 Wind Speed: 115 mph Roof Load: 45.0 psf Design Program: MiTek 20/20 8.6 Design Method: MWFRS (Envelope)/C-C hybrid Wind ASCE 7-16 Floor Load: N/A psf

MiTek, Inc.

314.434.1200

16023 Swingley Ridge Rd.

Chesterfield, MO 63017

Mean Roof Height (feet): 35

Exposure Category: C

No. 12345678910112345678910112345678901233456789012334	Seal# I62145473 I62145475 I62145475 I62145476 I62145477 I62145477 I62145478 I62145480 I62145481 I62145481 I62145482 I62145483 I62145483 I62145485 I62145489 I62145490 I62145491 I62145493 I62145493 I62145493 I62145495 I62145495 I62145501 I62145501 I62145503 I62145505 I62145505 I62145505	Truss Name A01 A02 A03 A04 C01 C02 CJ01 CJ02 CJ02 CJ03 D01 D02 D03 D04 D05 D06 D06 D06 D06 D06 D06 D06 D001 E01 E02 E03 E04 E05 G01 G02 G03 G04 H01 H02 H03 H04 H05 H06 J01 J02 J03 J03	Date 11/21/23	No. 356 378 390 41 423 445 467 890 1253 45555555 5560	Seal# I62145507 I62145508 I62145509 I62145510 I62145512 I62145513 I62145513 I62145515 I62145515 I62145515 I62145520 I62145520 I62145522 I62145522 I62145523 I62145525 I62145525 I62145525 I62145525 I62145523 I62145523 I62145530 I62145531 I62145532	Truss Name J04 J05 J06 J07 J08 J09 J10 J11 J12 J13 J14 LGD1 LGE1 LGH1 V4 V5 V6 V7 V8 V9 V10 V11 V12 V13 V14 V15	Date 11/21/23
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The truss drawing(s) referenced above have been prepared by

MiTek USA, Inc. under my direct supervision based on the parameters provided by Premier Building Supply (Springhill, KS)20300 W 207th Street.

Truss Design Engineer's Name: Sevier, Scott

My license renewal date for the state of Missouri is December 31, 2023.

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.



November 21,2023

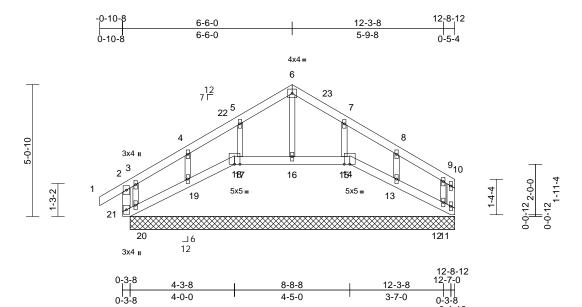
Sevier, Scott

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 169	
P230875-01	A01	Roof Special	1	1	Job Reference (optional)	162145473

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Tue Nov 21 09:45:26 ID:hBZIn7J?J?Lkk9m0JCMbUkyH?cQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

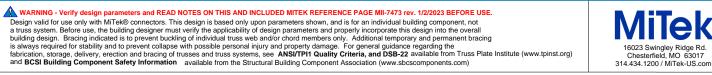
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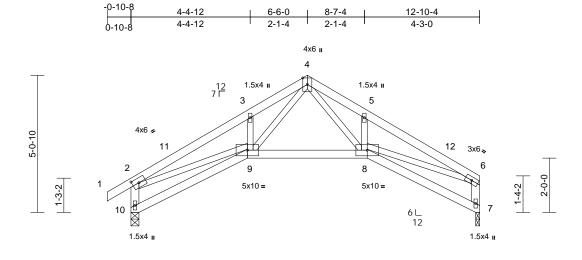
		i			·	-							
Loading	(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		тс	0.11	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.13	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES		WB	0.04	Horz(CT)	0.00	19	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S							Weight: 55 lb	FT = 20%
LUMBER			1)		roof live loads ha	ve been	considered fo	or					
TOP CHORD			0)	this design.	7.40.1/11.445-	- h (0							
BOT CHORD			2)		7-16; Vult=115m								
WEBS OTHERS	2x3 SPF No.2 Excep	ot* 9-12:2x3 SPF No.2		Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope)									
BRACING	2.0 011 10.2				and C-C Corner			/					
TOP CHORD	Structural wood she 6-0-0 oc purlins, exe	athing directly applied	lor	()	4-1-8 to 6-6-0, C 11-6-0 to 12-7-0	· · ·		,					
BOT CHORD		applied or 10-0-0 oc		right exposed ; end vertical left and right exposed;C-C									
_)IN	bracing, Except:				and forces & MV			own;					
	6-0-0 oc bracing: 19	-20,18-19,13-14.	0		=1.60 plate grip I								
REACTIONS	(size) 11=12-5-4	4, 12=12-5-4, 13=12-5	5-4, ³⁾		ned for wind load								
	14=12-5-4, 15=12-5-4, 15=12-5-4, only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable,												
		4, 18=12-5-4, 19=12-5		or consult gualified building designer as per ANSI/TPI 1.									
20=12-5-4 Max Horiz 20=-140 (LC 10) All plates are 1.5x4 MT20 unless otherwise indicated.													
	Max Liplift 11- 25 (IC 20) 12- 44 (IC 12) 5) I russ to be fully sheathed from one face or securely												
		.C 13), 15=-74 (LC 13	í.		nst lateral movem		liagonal web)).					
		.C 12), 18=-34 (LC 8),	~~ o,		spaced at 2-0-0 o as been designed								
	19=-130 (LC 12), 20=-96 (LC 8) ')		0			de					
	Max Grav 11=7 (LC		8)	chord live load nonconcurrent with any other live loads.8) All bearings are assumed to be SP No.2 crushing									
		_C 20), 14=3 (LC 3),	,	capacity of 5			2 or dor						
		_C 20), 16=200 (LC 2)		Provide mec	hanical connectio	on (by oth	ers) of truss t	to					
		_C 19), 18=36 (LC 9), _C 19), 20=249 (LC 2)			e capable of withs								
FORCES	(lb) - Maximum Com		0)		ift at joint 11, 44 l							and the	ADD
TOROLO	Tension	pression/maximum			17, 130 lb uplift a b uplift at joint 15							TATE OF I	AIS S
TOP CHORD		125, 3-4=-134/137,	1() N/A	o upilit at joint 15	and 70 li	o upint at joint	113.			4	A. A.	NSO
	4-5=-95/161, 5-6=-1	07/238, 6-7=-107/238		,	e or shim require	d to provi	de full bearin	a			H	SCOT	TM YEN
	7-8=-67/147, 8-9=-3	2/55, 9-10=-12/22,			truss chord at joir						U	SEV	
	2-21=-96/65			19, 20, 15, 1		(-) 2)		. ,			Ba		0 +
BOT CHORD	20-21=-142/157, 19-	,	12	2) This truss is	designed in acco	rdance w	ith the 2018				ax		Andres
	18-19=-18/14, 17-18	, , ,			Residential Code			and		~		gan	Service
	15-16=0/0, 14-15=0/ 12-13=-15/17, 11-12	, ,			nd referenced sta	Indard Al	ISI/TPI 1.				13	NUM	BER EA
WEBS	,	1=-23/23, 6-16=-158	25. L	DAD CASE(S)	Standard						N.	O PE-2001	018807
	5-17=-155/138, 4-19		-,								V	NUM PE-2001	154
	3-20=-103/102, 7-15	5=-157/156,									0	SION	LEN
	8-13=-144/159											A NA	
NOTES												and and	04.0000
												Novembe	121,2023



Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 169	
P230875-01	A02	Roof Special	4	1	Job Reference (optional)	162145474

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Page: 1



0-3-8	4-3-8	8-8-8	12-8-8	12-10-4
0-3-8	4-0-0	4-5-0	4-0-0	0-1-12

Scale = 1:42.5

Plate Offsets (X, Y): [2:0-2-14,0-2-0]

					1								
Loading	(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d		GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.29	Vert(LL)	-0.06	8-9	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.27	Vert(CT)	-0.11	8-9	>999	180		
BCLL	0.0	Rep Stress Incr	YES		WB	0.34	Horz(CT)	0.10	7	n/a	n/a		
BCDL	10.0	Code	IRC201	18/TPI2014	Matrix-S							Weight: 62 lb	FT = 20%
LUMBER			5) Bearing at jo	int(s) 10, 7 consid	ders para	llel to grain v	alue					
TOP CHORD	2x4 SP No.2			using ANSI/	TPI 1 angle to gra	ain formula	a. Building						
BOT CHORD	2x4 SP No.2				ould verify capacit								
WEBS	2x3 SPF No.2 *Exce	pt* 10-2,7-6:2x4 SF	No.2 6) Provide med	hanical connectio	on (by oth	ers) of truss	to					
BRACING		•		bearing plate									
TOP CHORD	Structural wood she	athing directly applie	ed or 7		hanical connectio								
	4-10-5 oc purlins, e			e capable of withs		05 lb uplift a	t						
BOT CHORD		c .		79 lb uplift at joint									
	bracing.		8		designed in acco								
REACTIONS	(size) 7=0-1-12,	10=0-3-8			Residential Code			and					
	Max Horiz 10=159 (L	-C 9)			nd referenced sta	andard AN	ISI/TPI 1.						
	Max Uplift 7=-79 (LC	; 13), 10=-105 (LC 1	2) L	OAD CASE(S)	Standard								
	Max Grav 7=562 (LC		,										
FORCES	(lb) - Maximum Com												
	Tension												
TOP CHORD		/340. 3-4=-1299/44	8.										
	4-5=-1299/425, 5-6=		- /										
	2-10=-649/229, 6-7=	-561/171											
BOT CHORD	9-10=-179/257, 8-9=	-107/636, 7-8=-57/	116										
WEBS	3-9=-221/173, 4-9=-	270/792, 4-8=-235/7	721,										
	5-8=-246/184, 2-9=-	145/984, 6-8=-203/*	1003										
NOTES													
	ed roof live loads have	been considered fo	r										and and
, this desig	n.											A	A way
2) Wind: AS	CE 7-16; Vult=115mph	(3-second gust)										STATE OF	WISS W
Vasd=91n	nph; TCDL=6.0psf; BC	DL=6.0psf; h=35ft;									4	Z. M	NS
	Cat. II; Exp C; Enclose										H	SCOT	TM XPN
	one and C-C Exterior(2									R	SEV		
) 4-4-12 to 6-6-0, Exter										81	SEV	
Interior (1) 11-6-0 to 12-8-8 zone; cantilever left and right										N ~	1.	A 1×8	
exposed ;	exposed ; end vertical left and right exposed;C-C for										N2	4	

- 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)
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.



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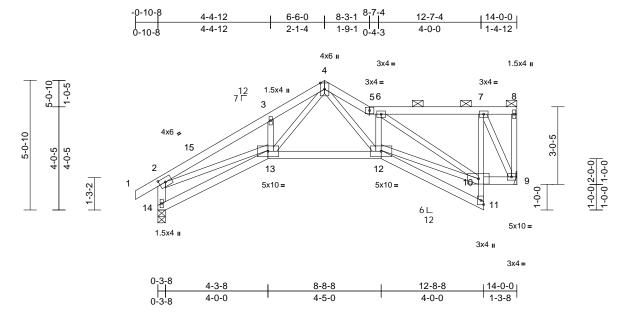
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SIONAL

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent colleges with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 169	
P230875-01	A03	Roof Special	1	1	Job Reference (optional)	162145475

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Scale = 1:44.9

Plate Offsets (X, Y): [2:0-2-14,0-2-0]

Loading TCLL (roof) TCDL BCLL	(psf) 25.0 10.0 0.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES		CSI TC BC WB	0.31 0.30 0.69	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.07 -0.15 0.10	(loc) 12-13 12-13 9	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
BCDL	10.0	Code	IRC2018	3/TPI2014	Matrix-S							Weight: 74 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 *Excep 2x3 SPF No.2 *Excep Structural wood she 4-6-8 oc purlins, ex 2-0-0 oc purlins (4-1 Rigid ceiling directly bracing.	r applied or 10-0-0 oc anical, 14=0-3-8 LC 9) .C 13), 14=-107 (LC C 1), 14=693 (LC 1)	2 nd or nd ; 3) 4)	Vasd=91mp Ke=1.00; Ca exterior zonu Interior (1) 4 Interior (1) 8 right expose for members Lumber DOI Provide ade This truss ha chord live lo Bearings are capacity of 5 Refer to gird Bearing at jo	7-16; Vult=1150 h; TCDL=6.0psf t. II; Exp C; Ence and C-C Exteri 4-12 to 6-6-0.2 3-1 to 13-10-12 d; end vertical I and forces & M =1.60 plate grip quate drainage t tas been designe ad nonconcurrer e assumed to be i65 psi. er(s) for truss to int(s) 14 considi TPI 1 angle to gr	; BCDL=6. losed; MW ior(2E) -0 :xterior(2E) :zone; can eft and righ WFRS for 0 DOL=1.60 0 prevent i d for a 10.0 nt with any : Joint 14 \$ truss conress parallel	Dpsf; h=35ft; FRS (envelo 0-8 to 4-4-12 6-6-0 to 8-3 tilever left an at exposed;C reactions sho water pondin psf bottom other live loa SP No.2 crusi ections. to grain valu	2, -1, -C own; g. ads. hing					
TOP CHORD	1-2=0/36 2-3=-1501	1/497. 3-4=-1451/594	1		uld verify canac								

- designer should verify capacity of bearing surface.
 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 122 lb uplift at joint 9 and 107 lb uplift at joint 14.
 9) This truss is designed in accordance with the 2018
 - International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - LOAD CASE(S) Standard



NOTES

WEBS

BOT CHORD

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

4-5=-1407/412, 5-6=-1243/346,

13-14=-325/337, 12-13=-328/769,

3-13=-202/167, 4-13=-386/791,

4-12=-161/754, 7-9=-613/167,

2-13=-284/1123, 6-12=-187/145,

6-10=-1178/377, 10-12=-419/1188

2-14 = -705/272

9-10=-113/269

6-7=-269/118, 7-8=-59/61, 8-9=-17/13,

11-12=-25/119, 10-11=0/43, 7-10=-45/325,

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Claulity Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



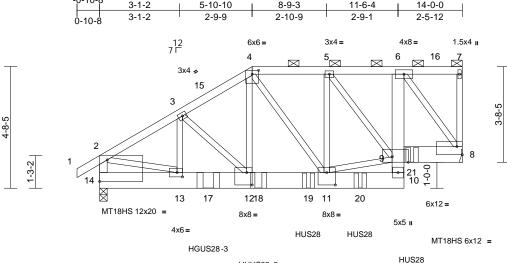
Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 169	
P230875-01	A04	Half Hip Girder	1	3	Job Reference (optional)	162145476

0-10-8

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14-0-0 2-5-12



		H	HUS28-2		10020
	3-1-2	5-9-6	8-9-3	11-9-0	14-0-0
	3-1-2	2-8-5	2-11-13	2-11-13	2-3-0
Scale = 1:44.5					
Plate Offsets (X_Y): [4:0-3-0 0-1-12]	[8:Edge 0-3-12] [9:0-7-8 Edge] [11:0-4	1-0 0-5-12] [12.0-	2-8 0-5-12] [13.0-2-	8 0-2-0] [14·Edge	0-10-01

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	-0.04	12-13	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.08	12-13	>999	180	MT18HS	197/144
BCLL	0.0	Rep Stress Incr	NO	WB	0.63	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 275 lb	FT = 20%

LUMBER

LOWIDEN	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x8 SPF No.2 *Except* 10-6:2x6 SPF No.2
WEBS	2x3 SPF No.2 *Except* 14-2:2x4 SP No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-7.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS	(size) 8= Mechanical, 14=0-3-8
	Max Horiz 14=173 (LC 9)
	Max Uplift 8=-1507 (LC 9), 14=-1446 (LC 12)
	Max Grav 8=6600 (LC 1), 14=5504 (LC 1)
FORCES	(lb) - Maximum Compression/Maximum
	Tension
TOP CHORD	1-2=0/36, 2-3=-6903/1891, 3-4=-6995/1852,
	4-5=-5694/1440, 5-6=-3982/987, 6-7=-76/78,
	7-8=-128/49, 2-14=-5266/1481
BOT CHORD	13-14=-434/622, 12-13=-1776/5870,
	11-12=-1631/5930, 10-11=-460/1886,
	9-10=-195/1015, 6-9=-1166/5197,
	8-9=-982/4015
WEBS	4-12=-1098/3598, 6-8=-6635/1543,
	2-13=-1463/5474, 3-12=-307/206,
	3-13=-296/342, 5-11=-533/1981,
	5-9=-2721/730, 9-11=-1018/3981,
	4-11=-682/351
NOTES	
 3-ply truss 	to be connected together with 10d

3-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x3 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x8 - 4 rows staggered at 0-4-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc

Web connected as follows: 2x3 - 1 row at 0-9-0 oc.

- All loads are considered equally applied to all plies 2) except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) 3) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 5-10-10, Exterior(2R) 5-10-10 to 12-11-8, Interior (1) 12-11-8 to 13-10-12 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
- 4) Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated. 5)
- This truss has been designed for a 10.0 psf bottom 6)
- chord live load nonconcurrent with any other live loads. Bearings are assumed to be: Joint 14 SPF No.2 7)
- crushing capacity of 425 psi. 8) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to 9) bearing plate capable of withstanding 1507 lb uplift at joint 8 and 1446 lb uplift at joint 14.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802 10 2 and referenced standard ANSI/TPI 1
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Use Simpson Strong-Tie HGUS28-3 (36-10d Girder, 6-10d Truss) or equivalent at 4-2-6 from the left end to connect truss(es) to front face of bottom chord.
- 13) Use Simpson Strong-Tie HHUS28-2 (22-10d Girder, 4-10d Truss) or equivalent at 6-1-9 from the left end to connect truss(es) to front face of bottom chord.

Use Simpson Strong-Tie HUS28 (22-10d Girder, 4-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 8-0-12 from the left end to 12-0-12 to connect truss(es) to front face of bottom chord.

15) Fill all nail holes where hanger is in contact with lumber. LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, 1) Plate Increase=1.15
 - Uniform Loads (lb/ft) Vert: 1-2=-70, 2-4=-70, 4-7=-70, 10-14=-20, 8-9=-20 Concentrated Loads (lb)
 - Vert: 17=-2899 (F), 18=-1975 (F), 19=-1974 (F), 20=-1974 (F), 21=-1973 (F)



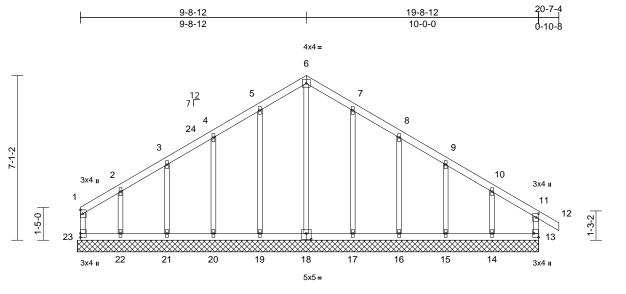
16023 Swingley Ridge Rd. Chesterfield MO 63017 314.434.1200 / MiTek-US.com

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 169	
P230875-01	C01	Common Supported Gable	1	1	Job Reference (optional)	162145477

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Tue Nov 21 09:45:30 ID:tanEXQ77q6PJA2_MyKZzetzviLI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



19-8-12

Scale = 1:49.6

	(7, 1). [11.0 2 0,0 1 1], [10.2090,0 2 0], [10	.0 2 0,0 0	5 0]									
Loading	(psf)	Spacing	2-0-0		CSI	a 1-	DEFL	in	(loc)	l/defl	L/d		GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.11	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES		WB Matrix B	0.24	Horz(CT)	0.00	13	n/a	n/a	Maisht OF Ih	FT 200/
BCDL	10.0	Code	IRC2018	3/TPI2014	Matrix-R							Weight: 95 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD	2x4 SP No.2 2x3 SPF No.2 2x3 SPF No.2	athing directly applied	W		22-23=-120/126, 2 20-21=-120/126, 1 17-19=-120/126, 1 15-16=-120/126, 1 13-14=-120/126 6-18=-215/56, 5-1 3-21=-143/121, 2-	9-20=-1 6-17=-1 4-15=-1 9=-155/§	20/126, 20/126, 20/126, 90, 4-20=-146,	/110,	bea 23, upli join lb u	ring pla 94 lb up ft at joir t 22, 64 plift at je	ite capa plift at j nt 20, 6 Ib uplit oint 15	able of withstand oint 13, 64 lb upl 0 lb uplift at joint ft at joint 17, 76 ll and 125 lb uplift	y others) of truss to ing 92 lb uplift at joint ift at joint 19, 75 lb 21, 112 lb uplift at b uplift at joint 16, 55 at joint 14. ce with the 2018
TOP CHORD	6-0-0 oc purlins, ex				7-17=-155/90, 8-1	6=-146/	06,		Ínte	rnationa	al Resi	, dential Code sec	tions R502.11.1 and
BOT CHORD		applied or 10-0-0 oc	NC	DTES	9-15=-143/110, 10)-14=-16	8/121		R80			ferenced standar ndard	d ANSI/TPI 1.
REACTIONS	(size) 13=19-10 15=19-10 17=19-10 19=19-10 23=19-10 Max Horiz 23=-215 (Max Uplift 13=-94 (L 15=-55 (L 20=-75 (L 20=-75 (L 20=-75 (L 20=-75 (L 15=-183 (L 15=183 (L 17=195 (L 19=194 (L 21=182 (L 23=129 (L	LC 8) C 9), 14=-125 (LC 13) C 13), 16=-76 (LC 13) C 13), 19=-64 (LC 12) C 12), 21=-60 (LC 12) LC 12), 23=-92 (LC 8) C 19), 14=241 (LC 20) LC 10), 16=188 (LC 20) LC 20), 18=200 (LC 2) C 19), 20=188 (LC 19) LC 1), 22=248 (LC 19) LC 11)),),),),), 3), 3), 3), 3), 4), 5)	this design. Wind: ASCI Vasd=91mp Ke=1.00; Cr exterior zon Exterior(2N 15-0-0, Exterior(2N 15-0-0, Exterior(2N terposed;C- reactions sh DOL=1.60 Truss desig only. For st see Standa or consult q All plates ar Gable requi	d roof live loads have E 7-16; Vult=115m bh; TCDL=6.0psf; E at. II; Exp C; Enclo te and C-C Corner() 5-4-8 to 10-0-0, C erior(2N) 15-0-0 to it exposed; end ve C for members and nown; Lumber DOL gned for wind loads tuds exposed to wind rd Industry Gable E ualified building de the 1.5x4 MT20 unleage res continuous bot follwebbacher	bh (3-se 3CDL=6. sed; MW (3E) 0-4- corner(3I 20-10-8 trical left d forces .=1.60 pl s in the p and (norm End Deta signer a signer a sis other tom cho	cond gust) Opsf; h=35ft; (FRS (envelop 8 to 5-4-8, R) 10-0-0 to zone; cantilev and right & MWFRS for ate grip lane of the tru ral to the face, ills as applicat s per ANSI/TF wise indicated d bearing.	ver ss), ble, Pl 1. d.				STATE OF J	I MI. VY W
FORCES	(lb) - Maximum Com	pression/Maximum	6)		fully sheathed from						81	SEV	IER \ Y
TOP CHORD	3-4=-88/173, 4-5=-1 6-7=-152/295, 7-8=-	05/100, 2-3=-78/111, 21/238, 5-6=-152/295 121/238, 8-9=-88/173 =-131/126, 11-12=0/3	, -, , 0)	 braced against lateral movement (i.e. diagonal web). 7) Gable studs spaced at 2-0-0 cc. 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 9) All bearings are assumed to be SP No.2 crushing capacity of 565 psi. 								PE-2001	1SB



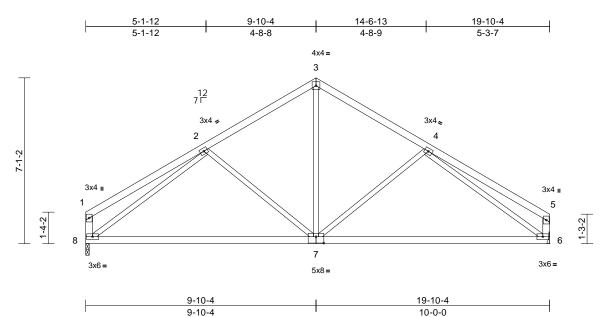


November 21,2023

Job	Truss	Truss Type	Qty Ply Roof - HR Lo		Roof - HR Lot 169	
P230875-01	C02	Common	11	1	Job Reference (optional)	162145478

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Tue Nov 21 09:45:30 ID:mL0INoAetLvkffl8BAevojzviLh-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



	Scale =	1:49.3
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Plate Offsets (X, Y): [7:0-4-0,0-3-4]

Loading	(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		тс	0.36	Vert(LL)	-0.19	6-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15		BC	0.94	Vert(CT)	-0.38	6-7	>614	180	-	
BCLL	0.0	Rep Stress Incr	YES		WB	0.88	Horz(CT)	0.03	6	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S							Weight: 92 lb	FT = 20%
LUMBER			6		hanical connectior) (by oth	ore) of truce	to					
TOP CHORD	2x4 SP No.2		0	bearing plate			013) 01 11033	10					
BOT CHORD	2x4 SP No.2		7		hanical connection	n (bv oth	ers) of truss	to					
WEBS	2x3 SPF No.2 *Exce	pt* 8-1.6-5:2x4 SP	No.2		e capable of withsta								
BRACING				joint 8 and 1	26 lb uplift at joint (6.							
TOP CHORD	Structural wood she	athing directly appli	ed or 8		designed in accord								
	5-11-3 oc purlins, e				Residential Code			and					
BOT CHORD	Rigid ceiling directly	applied or 2-2-0 oc			nd referenced stan	ndard AN	ISI/TPL1.						
	bracing.		L	OAD CASE(S)	Standard								
REACTIONS	(size) 6= Mecha	inical, 8=0-1-12											
	Max Horiz 8=-204 (L	,											
	Max Uplift 6=-126 (L	<i>,,</i>	12)										
	Max Grav 6=880 (LC	,, , ,											
FORCES	(lb) - Maximum Com	pression/Maximum											
	Tension		~ .										
TOP CHORD	1-2=-258/79, 2-3=-8	,	94,										
BOT CHORD	4-5=-284/78, 1-8=-2 6-8=-175/849	49/92, 5-6=-267/97											
WEBS	3-7=-67/483, 2-8=-8	81/177 4-6864/1	75										
WEBS	2-7=-246/217, 4-7=-		75,										
NOTES													
1) Unbalance	ed roof live loads have	been considered for	or										
this design													an
	CE 7-16; Vult=115mph											OFI	MIG
	nph; TCDL=6.0psf; BC											THE OF I	A Ser
	Cat. II; Exp C; Enclose		pe)								6	AN IN	N.S.Y

- exterior zone and C-C Exterior(2E) 0-3-8 to 5-2-1, Interior (1) 5-2-1 to 10-0-0, Exterior(2R) 10-0-0 to 14-10-1, Interior (1) 14-10-1 to 19-10-4 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
- This truss has been designed for a 10.0 psf bottom 3) chord live load nonconcurrent with any other live loads. Bearings are assumed to be: Joint 8 SP No.2 crushing 4)
- capacity of 565 psi. 5)
- Refer to girder(s) for truss to truss connections.



E

SCOTT M.

SEVIER

NUMBER

PE-2001018807

November 21,2023

SSIONAL

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 169		
P230875-01	CJ01	Diagonal Hip Girder	2	1	Job Reference (optional)	162145479	

3-10-7

-1-10-3

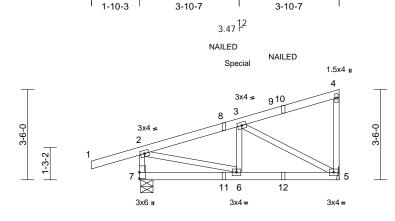
F

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

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7-8-13

Page: 1



NAILED





Scale = 1:44.6

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.41	Vert(LL)	0.01	5-6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.20	Vert(CT)	-0.02	5-6	>999	180		
BCLL	0.0	Rep Stress Incr	NO		WB	0.18	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-P							Weight: 37 lb	FT = 20%
BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x3 SPF No.2 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. size) 5= Mecha Aax Horiz 7=155 (LC Aax Uplift 5=-122 (L Aax Grav 5=326 (LC	cept end verticals. applied or 9-9-11 or nical, 7=0-5-12 C 9) C 12), 7=-186 (LC 8	c 9) L(per NDS gui Hanger(s) o provided suf down and 10 down and 4 design/selec responsibilit In the LOAD of the truss a	r other connection ficient to support 09 lb up at 3-9-1 lb up at 3-9-15 of tition of such con y of others. CASE(S) section are noted as from Standard of Live (balanced	on device(s t concentra 15 on top cl on bottom nection de on, loads ap nt (F) or ba) shall be ted load(s) 3 hord, and 11 chord. The vice(s) is the oplied to the ck (B).	39 lb lb face					
FORCES	(lb) - Maximum Com Tension	pression/Maximum			ads (lb/ft) =-70, 2-4=-70, 5 ed Loads (lb)	5-7=-20							
	2-7=-465/469, 1-2=0 3-4=-118/71, 4-5=-1			Vert: 6=-	5 (F), 11=1 (B),	12=-3 (B)							
	6-7=-332/169, 5-6=-												
WEBS	2-6=-120/380, 3-6=0	/123, 3-5=-379/364											
Vasd=91mp Ke=1.00; Ca exterior zon Exterior(2R right expose for member: Lumber DO 2) This truss h chord live lo	E 7-16; Vult=115mph sh; TCDL=6.0psf; BC at. II; Exp C; Enclose e and C-C Corner (3) 5-2-11 to 7-7-9 zonn ed ; end vertical left a s and forces & MWFI L=1.60 plate grip DO as been designed for ad nonconcurrent wi e assumed to be: Joi	DL=6.0psf; h=35ft; d; MWFRS (envelop) -1-10-3 to 5-2-11, s; cantilever left and nd right exposed;C- RS for reactions sho L=1.60 r a 10.0 psf bottom th any other live loa	C own; ds.									STATE OF SCOT	MISSOUR T M. IER

- capacity of 565 psi. 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to 5)
- bearing plate capable of withstanding 186 lb uplift at
- joint 7 and 122 lb uplift at joint 5. This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 6)



November 21,2023

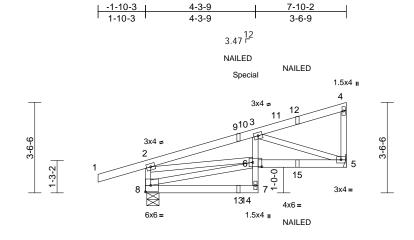


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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 169	
P230875-01	CJ02	Diagonal Hip Girder	1	1	Job Reference (optional)	162145480

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Tue Nov 21 09:45:31 ID:TGdXTDIvXPAKrC33nGpFCqzviLX-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f









Scale = 1:45

Plate Offsets (X, Y): [6:0-4-4,0-2-0]

PLATES GRIP
MT20 197/144 Weight: 40 lb FT = 20%
SCOTT M. SEVIER NUMBER PE-2001018807

ring µ tanding 188 lb uplift at joint 8 and 138 lb uplift at joint 5.



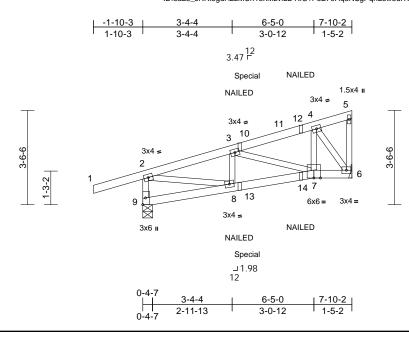
November 21,2023

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 169	
P230875-01	CJ03	Diagonal Hip Girder	1	1	Job Reference (optional)	162145481

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Page: 1



Scale = 1:43.2

Plate Offsets (X, Y): [9:0-3-0,Edge]

	(X, T): [5:0 5 0,Euge]												
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.42	Vert(LL)	0.01	7-8	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.18	Vert(CT)	-0.02	7-8	>999	180		
BCLL	0.0	Rep Stress Incr	NO		WB	0.16	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-P	-						Weight: 38 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD			6)	bearing plate	hanical connecti e capable of with 46 lb uplift at joir	standing 2							
WEBS	2x3 SPF No.2		7)		designed in acco		ith the 2018						
BRACING	2.00 0.1 110.2			International	Residential Cod	le sections	R502.11.1 a	and					
TOP CHORD	Structural wood she 6-0-0 oc purlins, ex		ed or 8)	"NAILED" in	nd referenced sta dicates Girder: 3			nails					
BOT CHORD	Rigid ceiling directly bracing.	applied or 8-3-4 oc	9)		other connectio			20 lb					
REACTIONS	(size) 6= Mecha Max Horiz 9=140 (L0 Max Uplift 6=-146 (L Max Grav 6=345 (L0	.C 12), 9=-201 (LC 8	3)	down and 94 down and 32	ficient to support 1 lb up at 3-11-4 2 lb up at 3-11-4 tion of such conr 4 of others	on top ch on bottom	ord, and 27 line ord, and 27 line ord, and 27 line ord, The	b					
FORCES	(lb) - Maximum Com	npression/Maximum	10		CASE(S) sectio	n, loads a	oplied to the	face					
	Tension				are noted as fron	t (F) or ba	ck (B).						
TOP CHORD	,			DAD CASE(S)									
BOT CHORD	3-4=-273/200, 4-5=- 8-9=-313/147, 7-8=-		1)		of Live (balanced	d): Lumber	Increase=1.	.15,					
WEBS	2-8=-223/461, 3-8=-			Plate Incre									
112B0	4-7=-156/191, 4-6=-		,	Uniform Lo	()	0 20 6	7 20						
NOTES	,				=-70, 2-5=-70, 7 ed Loads (lb)	-9=-20, 6-	7=-20						
 Wind: ASC Vasd=91n Ke=1.00; exterior zc Exterior(2 right expo for membin Lumber D This truss chord live 	CE 7-16; Vult=115mph mph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Corner (3 R) 5-2-11 to 7-8-14 zo sed ; end vertical left a ers and forces & MWF iOL=1.60 plate grip DC has been designed fo load nonconcurrent w are assumed to be: Jo of 565 psi.	EDL=6.0psf; h=35ft; ed; MWFRS (envelop i) -1-10-3 to 5-2-11, ne; cantilever left an and right exposed;C- RS for reactions shc DL=1.60 r a 10.0 psf bottom ith any other live loa	d C own; ds.		u (Dougs (10)	13=-27 (B)	, 14=-6 (F)					STATE OF SCOT SEV	ler +
5) Bearing at using ANS	irder(s) for truss to trus t joint(s) 9 considers pa SI/TPI 1 angle to grain should verify capacity o	arallel to grain value formula. Building									Ø	PE-2001	LENGI

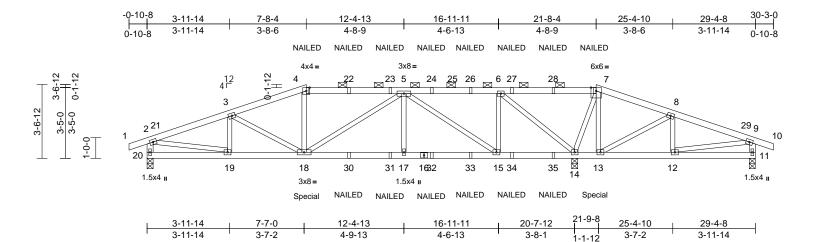
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16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 169	
P230875-01	D01	Hip Girder	1	2	Job Reference (optional)	l62145482

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Tue Nov 21 09:45:32 ID:efJ6LneUx0hLCVCRQ8JpKkzviL5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:55.6

00010 - 1.00.0			-									-	
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC201	8/TPI2014	CSI TC BC WB Matrix-S	0.39 0.26 0.30	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.04 -0.08 0.02	17-18 17-18	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 265 lb	GRIP 197/144 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD	No.2 Structural wood she 6-0-0 oc purlins, ex 2-0-0 oc purlins (6-0) Rigid ceiling directly bracing. (size) 11=0-3-8, Max Horiz 20=-25 (L Max Uplift 11=-244 (20=-393 (Max Grav 11=92 (LC 20=1163 (lb) - Maximum Com Tension	r applied or 6-0-0 oc , 14=0-3-8, 20=0-3-8 ,C 17) (LC 34), 14=-929 (LC (LC 8) C 12), 14=2701 (LC 1 (LC 25) apression/Maximum 5/695, 3-4=-1922/758	d or 2) d 2) 3) 9), 4)),	(0.131"x3") n Top chords of oc. Bottom chord 0-9-0 oc. Web connec All loads are except if note CASE(S) sec provided to c unless other Unbalanced this design. Wind: ASCE Vasd=91mpf Ke=1.00; Ca exterior zone Interior (1) 3 14-9-2, Interi to 28-9-2, Interi	be connected to hails as follows: connected as follows: connected as follows ds connected as follows ds connected as follows: considered equa ed as front (F) or ction. Ply to ply co distribute only loa- wise indicated. roof live loads ha 7-16; Vult=115m r; TCDL=6.0psf; I and C-C Exterio 11-14 to 7-8-4, E for (1) 14-9-2 to 2 erior (1) 28-9-2 th	ows: 2x4 follows: 2 (3 - 1 row lly applie back (B) onnectior ds noted ve been ph (3-see BCDL=6. osed; MW r(2E) -0- ixterior(2 1-8-4, E> o 30-3-0 ;	- 1 row at 0-9 x4 - 1 row at at 0-9-0 oc. d to all plies, face in the LC shave been as (F) or (B), considered for cond gust) 0psf; h=35ft; (FRS (envelop 10-8 to 3-11-1 R) 7-8-4 to tterior(2R) 21: zone; cantilev	DAD or pe) 14, -8-4	per 13) Hai pro lb c 136 sele res LOAD (1) De Pl U	NDS gunger(s) of vided su down and blow	ideline or othe ifficient d 136 ll t 21-7- such of ty of ot) Sta of Live ease=1 bads (I 2=-70, -20 ited Lo e-49 (B (B), 23 (B), 28	es. r connection deve t to support conce b up at 7-8-4, ar 8 on bottom che connection devic hers. ndard e (balanced): Lui .15 b/ft) 2-4=-70, 4-7=-7 ads (lb)), 7=-49 (B), 18= i=-49 (B), 24=-45 B=-49 (B), 30=-22	centrated load(s) 307 nd 307 lb down and ord. The design/
BOT CHORD WEBS NOTES	6-7=-399/1237, 7-8= 9-10=0/23, 2-20=-11 19-20=-104/205, 18 17-18=-523/1554, 11 14-15=-113/414, 13 12-13=-519/236, 11 3-19=-258/154, 3-18 4-18=-12/261, 5-18= 5-15=-1412/530, 6-1	279/923, 8-9=-210/5 105/479, 9-11=-146/2 -19=-619/1733, 5-17=-523/1554, -14=-861/386, -12=-47/42 3=-206/312, 129/302, 5-17=0/27 15=-213/897, 3=-592/228, 8-12=-2/2 12=-517/224,	99 5) 6) 7) 9, 8) 226, 9)	exposed;Č-C reactions sho DOL=1.60 Provide adec All plates are This truss ha chord live loa All bearings capacity of 5 Provide mec bearing plate joint 20, 244 14.)) This truss is International	exposed ; end vec c for members an own; Lumber DOI quate drainage to a 3x4 MT20 unless is been designed ad nonconcurrent are assumed to b 65 psi. hanical connectio e capable of withs Ib uplift at joint 1 designed in acco Residential Code	d forces of L=1.60 pl prevent s otherwing for a 10. with any be SP No of the transformed set of the transformed se	& MWFRS for ate grip water ponding ise indicated. 0 psf bottom other live loa .2 crushing uers) of truss t 393 lb uplift at 9 lb uplift at jo ith the 2018 s R502.11.1 a	g. ads. to t				STATE OF SCOT SEV NUM PE-2001	TER JER IBER

R802.10.2 and referenced standard ANSI/TPI 1.

11) Graphical purlin representation does not depict the size

or the orientation of the purlin along the top and/or

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bottom chord.

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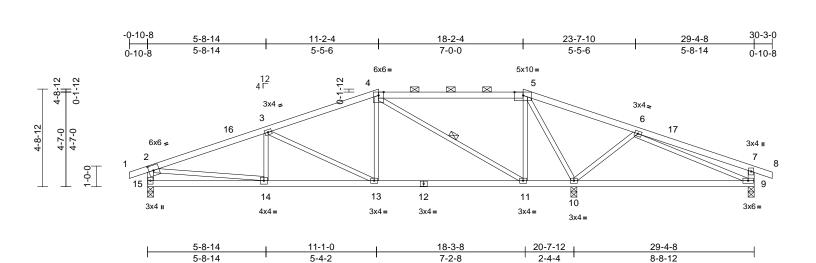
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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 169	
P230875-01	D02	Нір	1	1	Job Reference (optional)	l62145483

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Tue Nov 21 09:45:32 ID:TMkEIT7ZWIkg?fF7mY1By9zviKT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:55.8

Plate Offsets (X, Y): [2:0-2-11,0-3-0]

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	8/TPI2014	CSI TC BC WB Matrix-S	0.86 0.60 0.77	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.13 -0.26 0.03	(loc) 9-10 9-10 10	l/defl >780 >394 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 130 lb	GRIP 197/144 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	2x4 SP No.2 2x4 SP No.2 2x3 SPF No.2 *Exce Structural wood she 4-6-8 oc purlins, ex 2-0-0 oc purlins (6-0 Rigid ceiling directly	athing directly applie cept end verticals, ar -0 max.): 4-5.	ed or	Vasd=91mpl Ke=1.00; Ca exterior zone Interior (1) 4 Exterior(2R) 30-3-0 zone vertical left a	7-16; Vult=115m h; TCDL=6.0psf; t. II; Exp C; Enclo and C-C Exterio -1-8 to 11-2-4, Ex 18-2-4 to 25-3-2, c cantilever left ar ind right exposed /FRS for reaction	BCDL=6.(osed; MW or(2E) -0-1 (terior(2E) , Interior (od right ex (;C-C for n	Desf; h=35ft; FRS (envelop 0-8 to 4-1-8, 11-2-4 to 18 1) 25-3-2 to posed ; end nembers and	-2-4,					
WEBS REACTIONS	bracing. 1 Row at midpt	4-11 10=0-3-8, 15=0-3-8 C 12) S 9), 10=-287 (LC 9), LC 8) C 26), 10=1579 (LC -	6)	Provide ade All plates are This truss ha chord live los All bearings capacity of 5 Provide med	late grip DOL=1.6 quate drainage to a 3x4 MT20 unles as been designed ad nonconcurrent are assumed to b 665 psi. hanical connectio a capable of withs	o prevent v ss otherwi l for a 10.0 t with any be SP No. on (by oth	se indicated.) psf bottom other live loa 2 crushing ers) of truss t	ds. o					
FORCES	(lb) - Maximum Com Tension 1-2=0/23, 2-3=-1466 4-5=-171/159, 5-6=- 7-8=0/23, 2-15=-857	6/427, 3-4=-1046/349 110/536, 6-7=-270/1	,	joint 15, 287 This truss is International R802.10.2 a	Ib uplift at joint 1 designed in acco Residential Code nd referenced sta	0 and 98 ordance w e sections andard AN	b uplift at joir ith the 2018 R502.11.1 a ISI/TPI 1.	nt 9. Ind					
BOT CHORD	14-15=-118/287, 13- 11-13=-193/932, 10-	-14=-356/1330,	9) 6/61		Irlin representation of the purlin			size				0000	100
WEBS	3-14=-48/111, 3-13= 4-11=-897/275, 5-11 5-10=-1266/409, 6-1 2-14=-256/1053, 6-9	-438/182, 4-13=-2/3 =-99/525, 0=-504/282,	02	DAD CASE(S)								STATE OF M	MISSOUR FM. ER

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

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NUMBER PE-2001018807

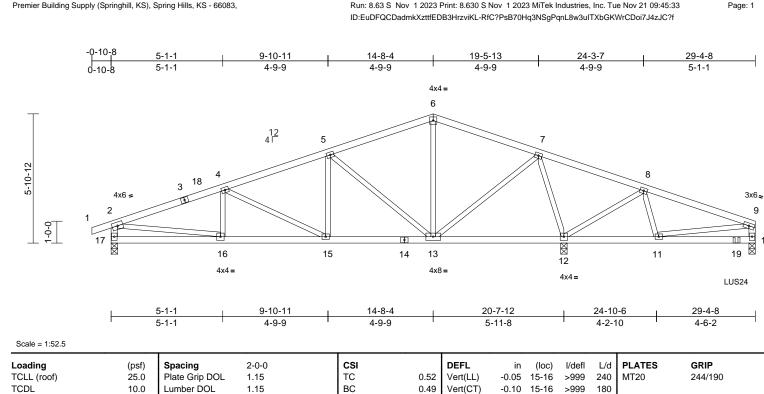
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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 169	
P230875-01	D03	Common Girder	1	1	Job Reference (optional)	162145484

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Tue Nov 21 09:45:33



BCLL		0.0	Rep Stress Incr	NO		WB	0.45	Horz(CT)	0.02	10 10	n/a	n/a		
BCDL		10.0	Code	IRC20	18/TPI2014	Matrix-S							Weight: 131 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x4 SP N 2x3 SPF No.2 Structura 4-8-13 or	lo.2 No.2 *Exc I wood sh	ept* 17-2,10-9:2x4 S eathing directly applie except end verticals. y applied or 6-0-0 oc	ed or	Vasd=91mp Ke=1.00; Ca exterior zonu Interior (1) 4 19-5-13, Inte left and right exposed;C-(reactions sh DOL=1.60	F-16; Vult=11 h; TCDL=6.0ps tt. II; Exp C; Er e and C-C Exte -1-8 to 14-8-4, erior (1) 19-5-1 exposed ; enc C for members own; Lumber E e 3x4 MT20 un	sf; BCDL=6. Inclosed; MW erior(2E) -0-7 Exterior(2R 3 to 29-2-12 I vertical left and forces & DOL=1.60 pl	Opsf; h=35ft; /FRS (envelo 10-8 to 4-1-8,) 14-8-4 to 2 zone; cantile and right & MWFRS fo ate grip	ever					
REACTIONS	Max Horiz Max Uplift	17=77 (L 10=-106 17=-212	(LC 13), 12=-258 (LC (LC 31) (LC 26), 12=1685 (LC	2 9), _t	 This truss has chord live lo All bearings capacity of 5 Provide med 	as been design ad nonconcurr are assumed t 665 psi. chanical conne	ed for a 10.0 ent with any o be SP No. ction (by oth	0 psf bottom other live loa 2 crushing ers) of truss t	ads. to					
FORCES	(lb) - Max Tension		mpression/Maximum		01	e capable of wi Ib uplift at join	0							
TOP CHORD	5-6=-532	/222, 6-7=	0/343, 4-5=-1073/304 -533/215, 7-8=-104/6 =-837/316, 9-10=-20	649,	 This truss is International 	designed in ac Residential Condition	ode sections	s R502.11.1 a	and					
BOT CHORD	13-15=-1	87/971, 12	5-16=-288/1273, 2-13=-213/106, 0-11=-80/230	8	 Use Simpso Truss, Single 		US24 (4-100 r equivalent	d Girder, 2-10 at 28-6-4 fror	m					
WEBS	5-13=-69 7-13=-15	0/215, 6-1 4/855, 7-1 3/233, 8-1	-347/123, 5-15=-4/28 3=-17/115, 2=-1288/351, 1=0/232, 2-16=-183/	1050,	chord.) Fill all nail he 10) In the LOAD	oles where har CASE(S) sect are noted as fro	iger is in cor ion, loads a	ntact with lum	ber.			A	STATE OF I	MISSOU
NOTES 1) Unbalance this design		loads have	e been considered for		• • • •	of Live (balanc ase=1.15	ed): Lumber	Increase=1.	15,				SEV.	IER

Vert: 1-2=-70, 2-6=-70, 6-9=-70, 10-17=-20

Concentrated Loads (lb)

Vert: 19=-370 (F)

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November 21,2023

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 169	
P230875-01	D04	Common Girder	1	2	Job Reference (optional)	162145485

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Tue Nov 21 09:45:33 ID:IndwZKP?5NdPGBWYctybO0zviK6-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1

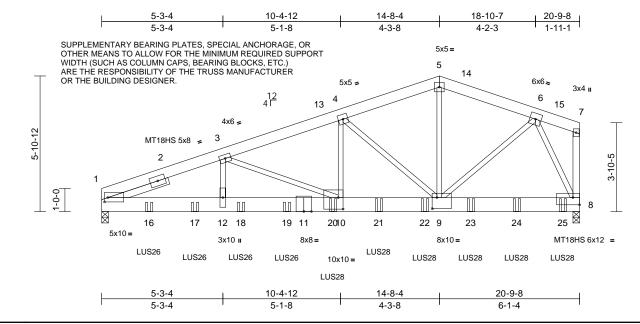


Plate Offsets (X, Y): [1:0-1-10,0-2-4], [8:Edge,0-3-12], [9:0-2-8,0-5-12], [10:0-2-8,0-6-0]

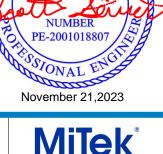
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Loading	(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		тс	0.90	Vert(LL)	-0.12	10-12	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.95	Vert(CT)	-0.22	10-12	>999	180	MT18HS	197/144
BCLL	0.0	Rep Stress Incr	NO		WB	0.66	Horz(CT)	0.04	8	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S		- (-)		-			Weight: 255 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD	2x6 SPF No.2 2x8 SP 2400F 2.0E	*Evcent* 11-8:2v8 S	2) PF	except if not	considered equal ed as front (F) or b ction. Ply to ply co	back (B)	face in the LO		LOAD	CASE(S) Sta	ndard	contact with lumber.
BOT CHORD	No.2				listribute only load					ate Incre			iber increase=1.15,
WEBS	2x3 SPF No.2 *Exce	pt* 8-7:2x4 SP No.2	2	unless other	wise indicated.					niform L			
SLIDER	Left 2x4 SP No.2 2	2-9-0	3)		roof live loads hav	/e been	considered fo	or			· ·	5-7=-70, 1-8=-20)
BRACING				this design.					C	oncentra	ated Lo	ads (lb)	
TOP CHORD	Structural wood she	athing directly applie	ed or ⁴⁾		7-16; Vult=115mp					Vert: 16	6=-860	(F), 17=-860 (F),	18=-860 (F), 19=-860
	3-1-0 oc purlins, ex	cept end verticals.			n; TCDL=6.0psf; B					(F), 20=	-860 (F), 21=-860 (F), 2	22=-860 (F), 23=-860
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 or	0		t. II; Exp C; Enclose and C-C Exterior			pe)		(F), 24=	-860 (F), 25=-864 (F)	
	bracing.				-3-4 to 14-8-4, Ext								
REACTIONS	(size) 1=0-3-8, 8	3=0-3-8, (req. 0-4-5)			or (1) 19-8-4 to 20			er left					
	Max Horiz 1=133 (LC			,	osed ; end vertica		,						
	Max Uplift 1=-823 (L				for members and			r					
	Max Grav 1=4944 (L	_C 1), 8=5508 (LC 1)	reactions she	own; Lumber DOL	=1.60 pl	ate grip						
FORCES	(lb) - Maximum Com	pression/Maximum		DOL=1.60			U .						
	Tension		5)	All plates are	MT20 plates unle	ess other	wise indicate	ed.					
TOP CHORD	1-3=-9771/1770, 3-4		6)		s been designed								
	4-5=-4775/943, 5-6=	,			ad nonconcurrent								
DOTOUDDD	6-7=-179/114, 7-8=-		7)		Required bearing	size at jo	int(s) 8 great	ter					
BOT CHORD	1-12=-1714/8926, 10	,		than input be				_					
WEBS	9-10=-1395/7123, 8- 5-9=-435/2690, 3-12		8)		assumed to be: J								
WEBS	3-10=-1985/433, 4-1				acity of 805 psi, J		PF NO.2 Crush	ning				000	TOP
	4-9=-3596/699, 6-9=		9)	capacity of 4	25 psi. hanical connectioi	o (by oth	oro) of truco d	to				A OF M	MIG DI
	6-8=-4345/933	000,0000,	9)		capable of withst							BAE	000
NOTES					75 lb uplift at joint		23 ib upilit ai	L			6	TATE OF M	Nov N
	to be connected toge	thor with 10d	1(designed in accor		ith the 2018				B	SCOT	ГМ. \У У
) nails as follows:				Residential Code			and			R	/ SEVI	ER \ Y
	s connected as follows	s [.] 2x6 - 2 rows			nd referenced star			-		-	11	1 1 1 1	
	at 0-9-0 oc, 2x4 - 1 ro		11	I) Use Simpson	Strong-Tie LUS2	26 (4-100	d Girder, 3-10)d			W I	LTES	Article
	ords connected as follo			Truss) or eq	uivalent spaced at	2-0-0 00	max. startin	g at			X		
staggered	at 0-8-0 oc.			2-0-12 from	he left end to 8-0-	12 to co	nnect truss(e	s) to			27		BER EB

staggered at 0-8-0 oc. Web connected as follows: 2x3 - 1 row at 0-9-0 oc.

front face of bottom chord. 12) Use Simpson Strong-Tie LUS28 (6-10d Girder, 3-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 10-0-12 from the left end to 20-0-12 to connect truss(es) to front face of bottom chord.

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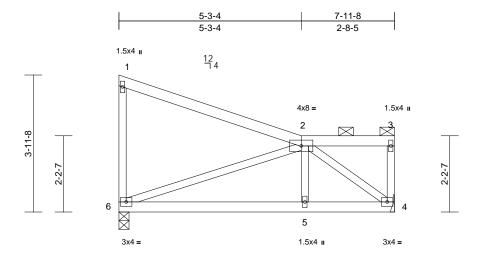
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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 169	
P230875-01	D05	Roof Special	1	1	Job Reference (optional)	162145486

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Scale = 1:33.3												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	-0.03	5-6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.06	5-6	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 36 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.2	s designed in ac al Residential Co and referenced	ode sections	R502.11.1 a	and				•			

8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. or nd

TOP CHORD	2x4 SP N	0.2
BOT CHORD	2x4 SP N	0.2
WEBS	2x3 SPF I	No.2
BRACING		
TOP CHORD	Structural	wood sheathing directly applied
	7-11-8 oc	purlins, except end verticals, an
	2-0-0 oc p	ourlins: 2-3.
BOT CHORD	Rigid ceili	ing directly applied or 10-0-0 oc
	bracing.	
REACTIONS	(size)	4= Mechanical, 6=0-3-8
	Max Horiz	6=-160 (LC 8)
	Max Uplift	4=-73 (LC 9), 6=-81 (LC 13)
	Max Grav	4=349 (LC 1), 6=349 (LC 1)
FORCES	(lb) - Max	imum Compression/Maximum
	Tension	
TOP CHORD	1-6=-181/	235, 1-2=-141/98, 2-3=-39/43,
	3-4=-91/9	7
BOT CHORD	5-6=-190/	/333, 4-5=-187/339
WEBS	2-6=-355/	/325, 2-5=0/211, 2-4=-421/198

- NOTES
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-4 to 5-3-4, Interior (1) 5-3-4 to 7-10-4 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
- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: Joint 6 SP No.2 crushing 4) capacity of 565 psi.
- Refer to girder(s) for truss to truss connections. 5)
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 81 lb uplift at joint 6 and 73 lb uplift at joint 4.

LOAD CASE(S) Standard



November 21,2023



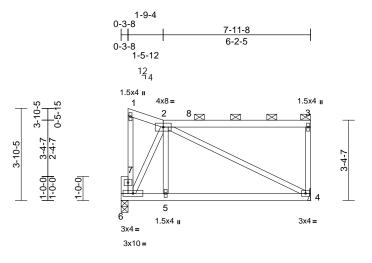
 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not beigh valid for use only with with with sets outputs into design is based only door parameters shown, and is for an individual dualing component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria**, and **DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)

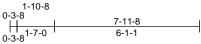
Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 169	
P230875-01	D06	Roof Special	1	1	Job Reference (optional)	162145487

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Tue Nov 21 09:45:34 ID:miftDsCysSchLkITgWfqkezviKM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1







Scale = 1:48.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.91	Vert(LL)	-0.04	4-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.09	4-5	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TP	I2014 Matrix-P							Weight: 39 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING	2x4 SP No.2 2x4 SP No.2 2x3 SPF No.2 2x4 SP No.2		Ínt R8 8) Gr or	is truss is designed in acco ernational Residential Code 302.10.2 and referenced state aphical purlin representation the orientation of the purlin ttom chord.	e sections andard AN on does n	R502.11.1 a SI/TPI 1. ot depict the s						
TOP CHORD	Structural wood she	athing directly appli	ed or LOAD	CASE(S) Standard								
	6-0-0 oc purlins, ex 2-0-0 oc purlins (2-2	cept end verticals, a										
BOT CHORD	Rigid ceiling directly bracing.		с									
	· · ·	anical, 6=0-3-8										
	Max Horiz 6=-147 (L	,										
	Max Uplift 4=-96 (LC Max Grav 4=340 (LC	<i>,,</i> , , ,										
FORCES	(lb) - Maximum Com Tension	,, , ,										
TOP CHORD	1-6=-55/77, 1-2=-74 3-4=-213/225	/69, 2-3=-63/69,										
BOT CHORD	5-6=-191/262, 4-5=-	188/266										
WEBS	2-6=-345/179, 2-5=0	0/260, 2-4=-243/162										
NOTES												
	CE 7-16; Vult=115mph											
	nph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose		ne)									TOP
	one and C-C Exterior(2		,								F OF I	MISSO
Interior (1)	4 0 4 4- 7 40 4	a sullar son late and a	1 l- 4								750	

- Kes1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-4-12 to 1-9-4, Interior (1) 1-9-4 to 7-10-4 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
- Provide adequate drainage to prevent water ponding.
 This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: Joint 6 SP No.2 crushing capacity of 565 psi.

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

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint 6 and 96 lb uplift at joint 4.





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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 169	
P230875-01	DG01	Jack-Open Girder	1	1	Job Reference (optional)	162145488

3-7-10 3-7-10

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

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3-11-2

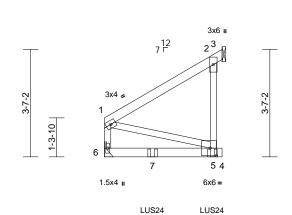
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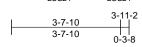
Page: 1

ONAL E

November 21,2023

16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com





Scale = 1:38.5

Plate Offsets (X, Y): [5:0-2-8,0-3-0]

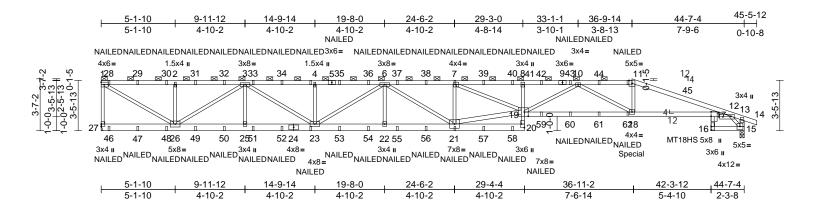
R802.10.2 and referenced standard ANSI/TPI 1.

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	-0.05	5-6	>978	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.09	5-6	>519	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.17	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI20	14 Matrix-P							Weight: 19 lb	FT = 20%
LUMBER				Simpson Strong-Tie LUS								
TOP CHORD	2x4 SP No.2			, Single Ply Girder) or e								
BOT CHORD				ax. starting at 1-8-2 from)					
WEBS	2x3 SPF No.2			ect truss(es) to front face								
BRACING			O) 1- 4	nail holes where hange								
TOP CHORD				LOAD CASE(S) section truss are noted as front			race					
	4-0-0 oc purlins, ex				г (г) ог ра	ск (D).						
BOT CHORD	0 0 ,	applied or 10-0-0 or	0	SE(S) Standard). I							
	bracing.		, DI-4	d + Roof Live (balanced e Increase=1.15): Lumber	Increase=1.	15,					
REACTIONS	()	nical, 6= Mechanica	21	orm Loads (lb/ft)								
	Max Horiz 6=80 (LC			ert: 1-3=-70, 4-6=-20								
	Max Uplift 3=-220 (L			centrated Loads (lb)								
	Max Grav 3=609 (L0			ert: 5=-327 (F), 7=-329 ((F)							
FORCES	(lb) - Maximum Com	pression/Maximum			. ,							
	Tension	0/45 0 0 405/000										
TOP CHORD BOT CHORD	,											
WEBS	D 5-6=-145/88, 4-5=0/ 2-5=-158/508, 1-5=-											
	2-3=-150/500, 1-5=-	92/152										
NOTES		(0)										
	SCE 7-16; Vult=115mph											
	mph; TCDL=6.0psf; BC ; Cat. II; Exp C; Enclose		20)									
	zone and C-C Exterior(2											Con .
and right	exposed ; end vertical	left and right	icit								A	all
	;C-C for members and f										TATE OF	MISS W
	shown; Lumber DOL=									6	2 Miles	N'SON
DOL=1.6										B	SCOT	TM XPN
2) This truss	s has been designed fo	r a 10.0 psf bottom								B	SEV.	
	e load nonconcurrent wi		ds.							R.		
	girder(s) for truss to trus									N r		1 2 8
	girder(s) for truss to tru									8		la ta
	mechanical connection									NZ	SCOULD	Exman g
	plate capable of withstar	haing 42 ib uplift at j	oint							N	PE-2001	018807
	0 lb uplift at joint 3. s is designed in accorda	anco with the 2019								N	The second	18A
	onal Residential Code s		nd							X	SIONA	NO'A
			nu								V ONA	LETA

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 169	
P230875-01	E01	Half Hip Girder	1	3	Job Reference (optional)	162145489

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Tue Nov 21 09:45:37 ID:MI0Giha5N7KYmAKyFbwV7AzvUAp-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:79.9

Continued on page 2

Plate Offsets ((X, Y): [12:0-9-4,0-1-1	1], [17:0-3-12,Edge]	, [19:0-3-4	4,Edge], [20:Ed	ge,0-2-8]									
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC20 ⁷	18/TPI2014	CSI TC BC WB Matrix-S	0.81 0.93 0.81	DEFL Vert(LL) Vert(CT) Horz(CT)		(loc) 18-19 18-19 15	l/defl >786 >490 n/a	L/d 240 180 n/a	PLATES MT20 MT18HS Weight: 615 lb	GRIP 197/144 197/144 FT = 20%	
LUMBER TOP CHORD BOT CHORD	2x4 SP No.2 *Excep 1.5E	ot* 11-14:2x4 SP 165	V 50F	VEBS	1-26=-1743/4861, : 3-26=-3580/1297, : 3-23=-858/2362, 4 6-23=-1353/523, 6	3-25=0/ -23=-45 -22=0/3	296, 3/298, 04, 6-21=-85/1	23,	9) Ref 10) Pro	shing ca er to giro vide me	pacity der(s) t chanic	imed to be: , Join of 565 psi. for truss to truss al connection (by	t 15 SP No.2 connections. r others) of truss to	
WEBS BRACING	No.2, 19-12:2x4 SP SP No.2 2x3 SPF No.2 *Exce No.2		SP	7-19=-1284/3316, 10-19=-816/2372, 12-15=-1836/766, 11-18=-914/2555, 10-18=-3100/1145 joint 27 and 1074 lb NOTES 11) This truss is designed International Resider R802.10.2 and refer									e with the 2018 ions R502.11.1 and	
TOP CHORD	Structural wood she 6-0-0 oc purlins, ex 2-0-0 oc purlins (5-4	cept end verticals, a I-14 max.): 1-11.	ed or 1 nd) 3-ply truss to (0.131"x3") r Top chords	b be connected tog nails as follows: connected as follow)	12) Gra or ti bott	phical p he orien tom choi	urlin re tation (rd.	epresentation doe of the purlin along	es not depict the size g the top and/or	
BOT CHORD	bracing. Except: 10-0-0 oc bracing: 1	7-18	0	oc, 2x4 - 1 row at 0-9-0 oc. 13) "NAILED" indicates Girder: 3-10d per NDS guidelines. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x3 - 1 row at 0-9-0 oc, 2x4 - 1 14) Hanger(s) or other connection de								es. r connection devi	ce(s) shall be	
REACTIONS	(size) 15=0-3-8, Max Horiz 27=-153 (Max Uplift 15=-1074 Max Grav 15=2985	(LC 9), 27=-1046 (L		1 row at 0-9-) All loads are	ted as follows: 2x3 -0 oc. considered equall	y applie	d to all plies,		dov dov des	vn and 6 vn and 1 ign/sele	i2 lb up 63 lb ι ction o	at 36-9-14 on to p at 36-9-14 on f such connection	op chord, and 315 lb bottom chord. The n device(s) is the	
FORCES	(lb) - Maximum Com Tension	pression/Maximum		CASE(S) se	ed as front (F) or b ction. Ply to ply cor	nnection	s have been	AD	responsibility of others. LOAD CASE(S) Standard 1) Dead + Roof Live (balanced): Lumber Increase=1.15					
TOP CHORD	2-3=-4172/1538, 3-4 4-6=-9172/3343, 6-7 7-8=-13424/5003, 8- 10-11=-8999/3408, 12-13=-429/143, 13- 13-15=-1779/672	4=-9172/3343, 7=-10414/3838, -10=-13569/5052, 11-12=-9617/3583, -14=0/23,	3 4	 unless other Unbalanced this design. Wind: ASCE Vasd=91mp Ke=1.00; Ca 	distribute only loads wise indicated. roof live loads hav 7-16; Vult=115mp h; TCDL=6.0psf; Br tt. II; Exp C; Enclos e and C-C Exterior(e been h (3-seo CDL=6. ed; MW	considered for cond gust) 0psf; h=35ft; /FRS (envelope	e)		ate Incre	ease=1	STATE OF I	MISSOUR	
BOT CHORD	26-27=-91/225, 25-2 23-25=-2508/7185, 3 21-22=-3663/10311, 19-20=-2/183, 8-19= 18-19=-4254/11573, 12-17=-2947/8143, 15-16=-376/973	22-23=-3663/10311, , 20-21=-247/702, =-330/213, , 17-18=-3323/9116,	5	Interior (1) 5 43-8-7, Inter and right exp exposed;C-0 reactions sh DOL=1.60) Provide ade) All plates are) This truss ha	-1-10 to 36-9-14, E ior (1) 43-8-7 to 45 posed ; end vertica C for members and own; Lumber DOL= quate drainage to p e MT20 plates unle as been designed for	xterior(-5-12 zo l left and forces =1.60 pl prevent ss othe or a 10.	2R) 36-9-14 to one; cantilever d right & MWFRS for ate grip water ponding. rwise indicated			1		NUM PE-2001	Sove BER 018807	

 This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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Page: 1

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 169	
P230875-01	E01	Half Hip Girder	1	3	Job Reference (optional)	162145489

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Page: 2

Uniform Loads (lb/ft)

- Vert: 1-11=-70, 11-13=-70, 13-14=-70, 20-27=-20, 17-19=-20, 15-16=-20
- Concentrated Loads (lb)
 - Vert: 23=-23 (F), 4=-51 (F), 21=-23 (F), 7=-51 (F), 11=-7 (F), 28=-71 (F), 29=-51 (F), 30=-51 (F), 31=-51 (F), 32=-51 (F), 33=-51 (F), 34=-51 (F), 35=-51 (F), 36=-51 (F), 37=-51 (F), 38=-51 (F), 39=-51 (F), 40=-51 (F), 42=-7 (F), 43=-7 (F), 44=-7 (F), 46=-28 (F), 47=-23 (F), 48=-23 (F), 49=-23 (F), 50=-23 (F), 51=-23 (F), 52=-23 (F), 53=-23 (F), 54=-23 (F), 55=-23 (F), 56=-23 (F), 57=-23 (F), 58=-23 (F), 59=-92 (F), 60=-92 (F), 61=-92 (F),
 - 62=-407 (F)

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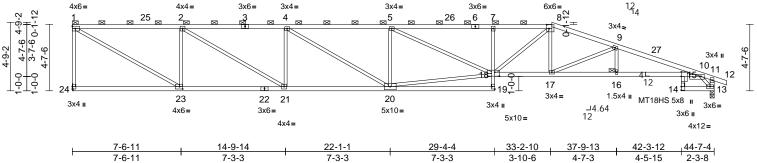
Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 169	
P230875-01	E02	Half Hip	1	2	Job Reference (optional)	162145490

7-6-11

7-6-11

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Tue Nov 21 09:45:38 ID:O4PEe3SOKFJmJIWiBaBJmMzvU75-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1

45-5-12 14-9-14 22-1-1 29-3-0 37-9-13 44-7-4 33-3-14 7-3-3 7-3-3 7-1-15 4-0-14 4-5-15 6-9-7 0-10-8 3x4 II 1<u>2</u> 14 4x4= 3x6= 3x4= 3x4= 3x6= 6x6=



Scale = 1:80

Plate Offsets ()	X, Y): [8:0-1-12,0-3-4], [10:0-9-4,0-1-11], [1	5:0-3-12	,Edge], [18:0-3	-12,0-3-4], [19:E	Edge,0-2-8	, [23:0-2-8,0	-2-0]					
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	8/TPI2014	CSI TC BC WB Matrix-S	0.83 0.84 0.83	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.41 -0.75 0.34	(loc) 7-18 19-20 13	l/defl >999 >712 n/a	L/d 240 180 n/a	PLATES MT20 MT18HS Weight: 398 lb	GRIP 197/144 197/144 FT = 20%
	2x4 SP No.2 *Excep No.2, 18-10:2x4 SP 2x3 SPF No.2 *Excep Structural wood she 2-2-0 oc purlins, ex 2-0-0 oc purlins, ex 2-0-0 oc purlins (4-6 Rigid ceiling directly bracing. Except: 10-0-0 oc bracing: 1 1 Brace at Jt(s): 1, 16 (size) 13=0-3-8, Max Horiz 24=-208 (Max Uplift 13=-479 (Max Grav 13=2068 (lb) - Maximum Com Tension 1-24=-1926/508, 1-2 2-4=-4613/1070, 4-5 5-7=-5967/1450, 7-6 8-9=-5201/1228, 9-1 10-11=-296/69, 11-1 23-24=-138/269, 21- 23-24=-138/269, 21- 20-21=-908/4613, 11 18-19=0/136, 7-18=- 17-18=-1011/4913, 15-16=-1294/5964, 1- 15-18=-251/847, 8-18 10-13=-1222/361, 2- 1-23=-749/3395, 2-2 4-21=-836/300, 4-20 5-20=-887/330, 18-2	apt* 13-11:2x4 SP No. athing directly applied cept end verticals, and i-1 max.): 1-8. applied or 10-0-0 oc 6-17, 15-16 24= Mechanical LC 9), 24=-439 (LC 9 (LC 1), 24=-1995 (LC 9 (LC 2), 24=-439 (LC 9 (LC 2), 24=-439 (LC 9 (LC 1), 24=-1995 (LC 9 (LC 1), 24=-1	2 l or d 2) 3) 4)) 1) /335 5) 6) 7) 8) 9) 10 11 12	(0.131"x3") r Top chords of oc, 2x4 - 1 rc Bottom chorn 0-9-0 oc, 2x3 Web connect All loads are except if not CASE(S) se provided to of unless other Unbalanced this design. Wind: ASCE Vasd=91mpl Ke=1.00; Ca exterior zone Interior (1) 5 40-4-12, Inte left and right exposed;C-C reactions sh DOL=1.60 Provide adec All plates are This truss ha chord live loa Bearings are crushing cap D) Refer to gird Provide mect bearing plate joint 24 and 2) This truss is International	b be connected to ails as follows: connected as follows: connected as follows: a connected as follows: ds connected as s - 1 row at 0-9-0 ted as follows: 2 considered equi- ed as front (F) or ction. Ply to ply of distribute only los wise indicated. roof live loads h: 7-16; Vult=115r n; TCDL=6.0psf; t. II; Exp C; Encl e and C-C Exteri- rior (1) 40-4-12 exposed ; end v c) for members an own; Lumber DCC quate drainage to a MT20 plates ur e assumed to be: activ of 565 psi. er(s) for truss to hanical connecti- e capable of with 479 lb uplift at jo designed in accc Residential Cod nd referenced st	lows: 2x3 - follows: 2x3 - follows: 2: oc. 2x3 - 1 row ally applier r back (B) connection ads noted ave been of mph (3-sec BCDL=6. losed; MW or(2E) 0-1. for (2E) 0-1. for (2E	1 row at 0-9 at 0-9-0 oc. d to all plies, face in the LC shave been as (F) or (B), considered for cond gust) opsf; h=35ft; FRS (envelo cond gust) opsf; h=35ft; FRS (envelo zone; cantile and right & MWFRS fo ate grip water pondin, wise indicated. D psf bottom other live loa SP No.2 mections. ers) of truss i 39 lb uplift at th the 2018 R502.11.1 at	DAD or pe) ever r g. ed. ads. to	or t	he orien tom cho	tation rd. rd.) Sta	of the purlin along ndard	MISSOLA T.M. ER D18807
NOTES												A NA	and a start

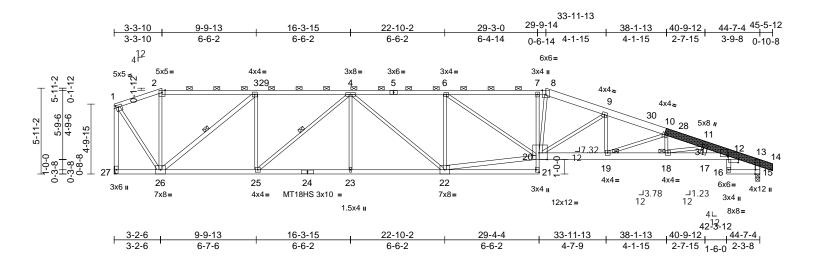
November 21,2023

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 169	
P230875-01	E03	Нір	1	1	Job Reference (optional)	162145491

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Tue Nov 21 09:45:39 ID:JqRRkNmBLxOgk5dPtC65?ezvU46-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:79.6

Plate Offsets ((X, Y): [1:0-2-0,0-1-12	2], [8:0-3-0,Edge], [11:0)-2-8,0-1	-8], [12:0-0-8,0	0-2-9], [12:0-9-4,0-	·2-5], [15	:0-3-8,Edge],	[20:0-6	-12,Edge	e], [21:Eo	dge,0-2	2-8]	
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	8/TPI2014	CSI TC BC WB Matrix-S	0.95 0.99 0.96	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.48 -0.88 0.41	(loc) 7-20 21-22 15	l/defl >999 >606 n/a	L/d 240 180 n/a	PLATES MT20 MT18HS Weight: 273 lb	GRIP 197/144 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS LBR SCAB BRACING		ept* 22:2x4 SP No.2			1-26=-481/1877, 2 3-26=-2296/543, 6 3-25=-103/960, 4- 4-22=-122/400, 6- 20-22=-792/3904, 9-20=-1024/291, § 10-19=-1184/293, 11	6-20=-13 25=-127 22=-778 8-20=-3 9-19=-62 10-18=-	0/522, 8/288, 4-23=0 /299, 64/1284, /611, 3/240,)/253,	or the bott		tation o d.	of the purlin along	s not depict the size the top and/or
TOP CHORD	2-8-10 oc purlins, e 2-0-0 oc purlins (2-1			No.2 with 2 I	10-9 scab 10 to 14 row(s) of 10d (0.13	31"x3") n	ails spaced 9						
BOT CHORD WEBS JOINTS	Rigid ceiling directly bracing. 1 Row at midpt 1 Brace at Jt(s): 19, 18	applied or 2-2-0 oc 3-26, 4-25	2)	row(s) at 7" joint 14, nail	starting at 4-0-0 fr o.c. for 3-9-11; sta 3 row(s) at 7" o.c. roof live loads hav	rting at 0 for 3-4-0)-3-5 from end).	d at					
		(LC 9), 27=-411 (LC 8)		Wind: ASCE Vasd=91mp Ke=1.00; Ca exterior zone	7-16; Vult=115m h; TCDL=6.0psf; E at. II; Exp C; Enclo e and C-C Exteriou 14-9-6 to 21-10-4	BCDL=6. sed; MW r(2E) 11-	0psf; h=35ft; /FRS (envelop 7-8 to 14-9-6,						
FORCES	(lb) - Maximum Com Tension 1-2=-1125/349, 2-3= 3-4=-2808/726, 4-6= 6-7=-4506/1135, 7-6 8-9=-4590/1119, 9-1 10-11=-6553/1477, 12-13=-618/188, 13	=-1052/353, =-4078/1038, 3=-4503/1135, 10=-5514/1269, 11-12=-6676/1493, -14=0/23,	4) 5) 6)	41-3-10, Ext 48-4-8 to 56 exposed ; er members an Lumber DOL Provide ade All plates are	erior(2R) 41-3-10 -11-8 zone; cantile nd vertical left and id forces & MWFR =1.60 plate grip I quate drainage to e MT20 plates unlu as been designed	to 48-4-8 ever left a right exp S for rea DOL=1.60 prevent	 A, Interior (1) and right bosed;C-C for ictions shown box water ponding rwise indicate 	; ;				STATE OF M	
BOT CHORD	1-27=-1973/517, 13 26-27=-157/275, 25 23-25=-718/3779, 2: 21-22=-30/229, 20-2 19-20=-1054/5198, 17-18=-1383/6431, 12-16=0/55, 15-16=	-26=-499/2808, 2-23=-718/3779, 21=0/118, 7-20=-337/2 18-19=-1326/6296, 12-17=-1383/6431,	9)	chord live loa Bearings are crushing cap Refer to gird Provide mec bearing plate 27 and 466 l 0) This truss is	ad nonconcurrent a assumed to be: , bacity of 565 psi. ler(s) for truss to tr chanical connectio e capable of withs? b uplift at joint 15. designed in accor I Residential Code	with any Joint 15 russ conr n (by oth tanding 4	other live loa SP No.2 nections. ers) of truss t I11 lb uplift at ith the 2018	o joint				PE-20010	Server 018807

International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

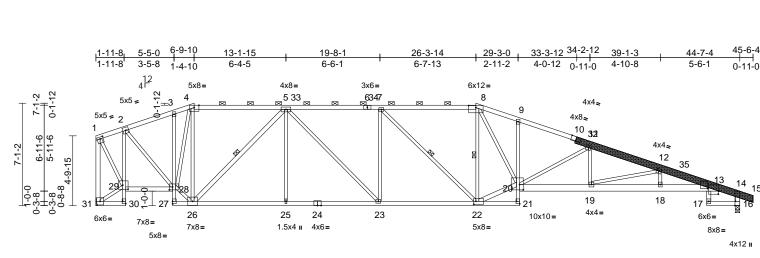
November 21,2023



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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 169	
P230875-01	E04	Нір	1	1	Job Reference (optional)	l62145492

Run: 8,63 S Nov 1 2023 Print: 8,630 S Nov 1 2023 MiTek Industries, Inc. Tue Nov 21 09:45:40 ID:vbPRxPmd18j1aiuAgQaKKxzvU2q-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



			13-1-15	15-4-4	19-8-1	26-5-2	29-4-4	34-2-12	39-1-3	42-3-12	44-7-4
2-0-12	3-3-0	1-4-10	6-5-9	2-2-5	4-3-13	6-9-1	2-11-2	4-10-8	4-10-8	3-2-9	2-3-8

Scale = 1:79.8													
Plate Offsets (, [8:0-6-0,0-1-11], [10:0 -8], [29:0-4-8,0-3-8], [3			,0-2-9], [13:0-9-	4,0-2-1], [16	:0-3-8,Edge]	, [20:0-3	-0,0-4-8]	, [21:Ed	ge,0-2	-8], [22:0-1-12,0-2	2-8],
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.84	Vert(LL)	-0.45	20	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15		BC	0.89	Vert(CT)	-0.80	20	>663	180		
BCLL	0.0	Rep Stress Incr	YES		WB	0.99	Horz(CT)	0.43	16	n/a	n/a		
BCDL	10.0	Code	IRC2018	3/TPI2014	Matrix-S							Weight: 305 lb	FT = 20%
LUMBER			W	EBS	29-31=-183/31	5, 1-29=-36	2/1831,					ned in accordanc	
TOP CHORD	2x4 SP No.2 *Excep	ot* 6-8:2x4 SP 1650F			2-28=-382/133								ions R502.11.1 and
	1.5E, 10-15:2x6 SP	F No.2			4-28=-36/180,							ferenced standar	
BOT CHORD		ot* 30-2,3-27,21-9:2x3			5-26=-1615/39	,	,						es not depict the size
	SPF No.2, 20-13:2x				8-22=-935/258							of the purlin alone	g the top and/or
WEBS	2x3 SPF No.2 *Exce	1			8-20=-509/215			770		om cho			
	26-5,22-20,31-1,16-				11-19=-31/515	,	,	///9,	LOAD	CASE(S) Sta	indard	
LBR SCAB	15-10 SPF No.2 bo	oth sides			7-23=-425/218 12-18=0/154	, 12-19=-11	40/203,						
BRACING					12-10=0/134								
TOP CHORD		eathing directly applied	0.	DTES	0.0.4	45 6 - 46 6-		-					
		cept end verticals, and	1)		3-0-4 scab 10 to 2 row(s) of 10d (
	2-0-0 oc purlins (2-7				: starting at 0-3-								
BOT CHORD	bracing.	/ applied or 6-0-0 oc			. starting at 0-3- " o.c. for 3-4-0.	to nom end	at joint 15, h	iali S					
WEBS	1 Row at midpt	5-26, 7-22, 8-22	2)		d roof live loads	have been	considered fo	hr					
REACTIONS		0, 31= Mechanical	2)	this design		nave been							
REACTIONS	Max Horiz 31=-192		3)		E 7-16; Vult=11	5mph (3-sec	cond aust)						
		(LC 8) (LC 9), 31=-391 (LC 8)	,		ph; TCDL=6.0ps								
		(LC 9), 31=-391 (LC 8) (LC 1), 31=1994 (LC 1			at. II; Exp C; Er			pe)					
)		ne and C-C Exte								
FORCES	(Ib) - Maximum Con	npression/Maximum		Interior (1)	16-10-12 to 18-3	3-6, Exterior	(2R) 18-3-6 t	to					
	Tension	4074/544		25-4-4, Inte	erior (1) 25-4-4 t	o 37-9-10, E	xterior(2R)						
TOP CHORD	1-2=-944/314, 2-3=-	,			44-10-8, Interior								The
	3-4=-1776/558, 4-5= 5-7=-3321/920, 7-8=				eft and right exp							O DE I	APP
	8-9=-4387/1135, 9-	,			ed;C-C for mem			RS				TE OF I	NISS N
	11-12=-5542/1274,				ns shown; Lumb	er DOL=1.60) plate grip				4	AN AND	N.S.
	13-14=-618/189, 14			DOL=1.60							H	SCOT	TM YPN
	1-31=-1964/463, 14		4)		equate drainage			0			8	SEV	
BOT CHORD	30-31=-10/10, 29-30		5)		re 3x4 MT20 un						R.		
201 01.01.2	2-29=-1504/545, 28	,	6)		has been design						50 -	-las	
	,	-14/191, 26-27=-24/55			oad nonconcurr			ads.			20 /	-T	· Non lon
	25-26=-512/2801, 2		' 7)		re assumed to b		5P NO.2			-	W.	NUM	BER 7 A
	22-23=-644/3321, 2		0)		apacity of 565 ps		actiona				N	PE-2001	018807
	20-21=0/19, 9-20=-8	86/125,	8)		der(s) for truss			to			N	The second	
	19-20=-1070/5237,		9)		echanical conne te capable of wi						Y	23.0	JON B
	13-18=-1342/6340,	13-17=0/55, 16-17=-23	3/0		d 391 lb uplift at		io i io upiilt a	ı				SSIONA	LENA
				joint to all	a 55 r ib upiilt at	joint 31.						CONA	-
													04.0000

November 21,2023



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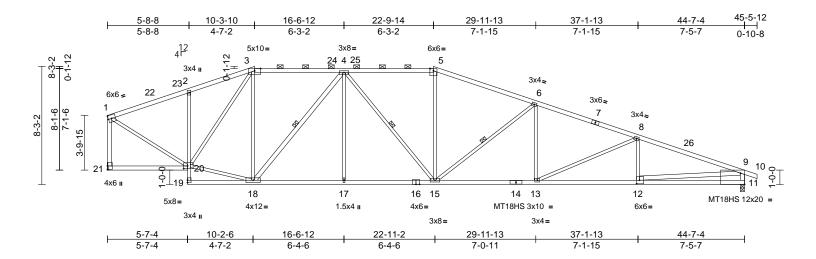
15

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 169	
P230875-01	E05	Нір	1	1	Job Reference (optional)	162145493

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Tue Nov 21 09:45:40 ID:4DoxDIxfBOdO?ijyY2kN1ozviI7-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:80.7

Plate Offsets (X, Y): [11:Edge,0-9-8], [12:0-2-8,0-3-0], [20:0-3-4,0-2-4]

				-									
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.79	Vert(LL)	-0.30	12-13	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.95	Vert(CT)	-0.56		>944	180	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES		WB	0.82	Horz(CT)	0.14	11	n/a	n/a		
BCDL	10.0	Code	IRC2018	B/TPI2014	Matrix-S		, , , , , , , , , , , , , , , , , , ,					Weight: 234 lb	FT = 20%
LUMBER			2)	Wind [.] ASCE	7-16; Vult=115m	oh (3-sec	cond aust)						
TOP CHORD	2x4 SP No.2 *Excep 1650F 1.5E	,	,	Vasd=91mpl Ke=1.00; Ca	h; TCDL=6.0psf; E at. II; Exp C; Enclos	BCDL=6. sed; MW	0psf; h=35ft; FRS (envelo	• •					
BOT CHORD	2x4 SP No.2 *Excep 19-16,14-11:2x4 SP		2,	Interior (1) 1	e and C-C Exterior 6-7-8 to 21-9-6, E	xterior(2	R) 21-9-6 to						
WEBS	2x3 SPF No.2 *Exce 18-4,11-9,12-9,21-1			34-3-10 to 4	erior (1) 28-10-4 to 1-5-9, Interior (1) 4	41-5-9 to	56-11-8 zon	e;					
BRACING					ft and right expose								
TOP CHORD		athing directly applied cept end verticals, an 7-15 max.): 3-5.	d	for reactions DOL=1.60	d;C-C for member shown; Lumber D	OCL=1.60) plate grip						
BOT CHORD	Rigid ceiling directly bracing.	applied or 2-2-0 oc	3) 4)		quate drainage to e MT20 plates unle								
WEBS		4-18, 4-15, 6-15	5)		as been designed t								
	(size) 11=0-3-8, Max Horiz 21=-157 (Max Uplift 11=-458 (Max Grav 11=2066	(LC 9), 21=-363 (LC 8		Bearings are crushing cap Refer to gird	ad nonconcurrent assumed to be: , bacity of 565 psi. ler(s) for truss to tr chanical connection	Joint 11	SP 1650F 1. nections.	.5E					
FORCES	(lb) - Maximum Com Tension	pression/Maximum	0)	bearing plate	e capable of withst 458 lb uplift at join	tanding 3							
TOP CHORD	1-2=-1971/572, 2-3= 3-4=-1986/660, 4-5= 5-6=-3061/856, 6-8= 8-9=-4197/965, 9-10 1-21=-1928/566	-2826/855,	9) 90, 10	This truss is International R802.10.2 a) Graphical pu	designed in accor Residential Code nd referenced star urlin representation ation of the purlin a	dance w sections ndard AN n does no	R502.11.1 a SI/TPI 1. ot depict the s					OF M	Also
BOT CHORD	20-21=-126/243, 19- 18-19=-32/64, 17-18 15-17=-506/2675, 12- 12-13=-827/3899, 1	3-15=-721/3557,	,	bottom chord DAD CASE(S)	d.							STATE OF M	
WEBS	4-15=-139/312, 5-15	8=-1172/293, 4-17=0/ 5=-59/526, 8=0/393, 8-13=-395/1	,								R	PE-20010	128
NOTES 1) Unbalance this design	ed roof live loads have n.	been considered for										SSIONA	L ENO

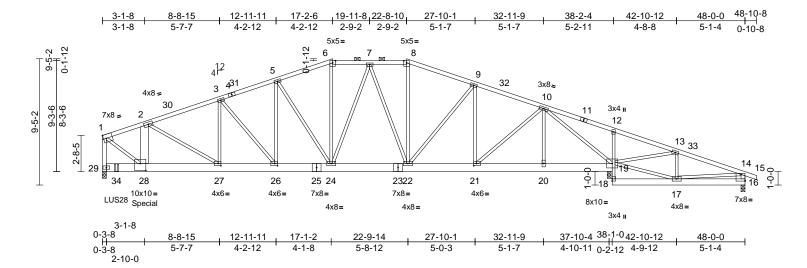
16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com

November 21,2023

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 169	
P230875-01	G01	Hip Girder	1	3	Job Reference (optional)	162145494

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Tue Nov 21 09:45:41 ID:?GB42wqKStb8Qako?3df4HzvU_t-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale =	1:86.1
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Plate Offsets (Plate Offsets (X, Y): [16:Edge,0-6-0], [21:0-2-8,0-2-0], [26:0-2-8,0-2-0], [27:0-2-8,0-2-0], [28:0-5-0,0-6-4]												
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC201	8/TPI2014	CSI TC BC WB Matrix-S	0.27 0.52 0.96	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.08 -0.14 0.03	(loc) 26 26-27 19	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 863 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x4 SP No.2 2x8 SPF No.2 *Exce 18-16:2x6 SPF No.2 2x3 SPF No.2 *Exce 29-1:2x4 SP 1650F Structural wood she 6-0-0 cc purlins, ex 2-0-0 cc purlins (6-C Rigid ceiling directly bracing, Except:	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	No.2, o.2, No.2 ed or nd c N	/EBS OTES	2-28=-786/1648; 3-27=-367/1382; 5-26=-301/1319; 6-24=-206/878; 7 7-22=-1035/277; 9-22=-84/492; 9-2 10-21=-269/1147; 10-19=-3441/798; 13-19=-785/255; 1-28=-1989/8384;	3-26=-17 5-24=-15 24=-209 3-22=-15 1=-621/2 10-20=0 17-19=- 13-17=0/	46/479, 18/434, /715, 2/691, 228, /159, 111/119, 229,		 7) All 8) Thi cho 9) Bea cru cru cru 10) Bea usin des 11) Pro 	plates a s truss h ord live k arings ar shing ca shing ca shing ca aring at j ng ANSI signer sh ovide me	re 3x6 has been bad noi- re assu- apacity apacity apacity point(s) /TPI 1 hould vechanic	MT20 unless othomerations of the measurement of the measurement with meet to be: Joint of 565 psi, Joint of 425 psi, Joint of 425 psi. 29 considers para angle to grain for angle to grain for a fify capacity of bal connection (by	10.0 psf bottom any other live loads. 29 SP 1650F 1.5E 19 SPF No.2 16 SPF No.2 allel to grain value mula. Building earing surface. others) of truss to
	6-0-0 oc bracing: 17 (size) 16=0-3-8, Max Horiz 29=-177 (Max Uplift 16=-136 (29=-1840 Max Grav 16=270 (29=8291	19=0-3-8, 29=0-3-8 LC 34) LC 32), 19=-604 (LC (LC 8) LC 26), 19=3010 (LC	C 9),	(0.131"x3") Top chords oc. Bottom cho staggered a	to be connected to nails as follows: connected as follo ords connected as f at 0-4-0 oc, 2x3 - 1	ws: 2x4 ollows: 2	- 1 row at 0-9-0 x8 - 4 rows	0	joir 29. 12) Thi Inte R8 13) Gra	nt 16, 60 s truss is ernationa 02.10.2 s aphical p	4 lb up s desig al Resid and ref ourlin re	lift at joint 19 and ned in accordanc dential Code sect erenced standard	ions R502.11.1 and J ANSI/TPI 1. s not depict the size
FORCES	(lb) - Maximum Com Tension	pression/Maximum		Web conne	ered at 0-9-0 oc. ected as follows: 2x		s staggered at			tom cho			
TOP CHORD	1-2=-7195/1713, 2-5 3-5=-4386/1170, 5-6 6-7=-3324/982, 7-8= 8-9=-3039/902, 9-10 10-12=-129/882, 12- 13-14=-111/249, 14 1-29=-7488/1796, 1 28-29=-51/239, 27-2 26-27=-1097/5176, 2 20-21=-280/1806, 12 18-19=0/72, 12-19= 16-17=-79/147	S=-3544/1014, -2830/886, D=-2861/813, -13=-207/914, -15=0/23, 4-16=-226/210 88=-1487/6790, 24-26=-836/4110, 1-22=-481/2663, 9-20=-280/1806,	3) 4) 5)	 All loads ar except if nc CASE(S) s provided to unless othe Unbalance this design. Wind: ASC Vasd=91m Ke=1.00; C exterior zor Interior (1) 22-8-10, E 29-9-8 to 4 exposed; e members a 	x3 - 1 row at 0-9-0 e considered equa bted as front (F) or ection. Ply to ply cc distribute only load erwise indicated. d roof live loads ha E 7-16; Vult=115m ph; TCDL=6.0psf; I at. II; Exp C; Enclo the and C-C Exterion 5-1-12 to 17-2-6, E tderior(2R) 22-8-10 8-10-8 zone; cantil and vertical left and ind forces & MWFF	Ily applie back (B) onnectior is noted we been ph (3-see 3CDL=6. sed; MW r(2E) 0-1 xterior(2 to 29-9-8 ever left right ext S for rea	face in the LOA s have been as (F) or (B), considered for cond gust) Opsf; h=35ft; FRS (envelope -12 to 5-1-12, E) 17-2-6 to 3, Interior (1) and right oosed; C-C for cctions shown;	e)		4		STATE OF M SCOT SEVI SEVI PE-20010 PE-20010	ER BER 018807

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality** Criteria, and DSE-22 available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)

Lumber DOL=1.60 plate grip DOL=1.60



November 21,2023

Page: 1

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 169	
P230875-01	G01	Hip Girder	1	3	Job Reference (optional)	162145494

- 14) Use Simpson Strong-Tie LUS28 (6-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent at 1-0-12 from the left end to connect truss(es) to front face of bottom chord.
- 15) Fill all nail holes where hanger is in contact with lumber.
- 16) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 6580 lb down and 1519 lb up at 3-2-6 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft)
 - Vert: 1-6=-70, 6-8=-70, 8-14=-70, 14-15=-70, 19-29=-20, 16-18=-20
 - Concentrated Loads (lb)

Vert: 28=-6580 (F), 34=-597 (F)

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Tue Nov 21 09:45:41 ID:?GB42wqKStb8Qako?3df4HzvU_t-RfC?PsB70Hq3NSgPqnL&w3uITXbGKWrCDoi7J4zJC?f Page: 2

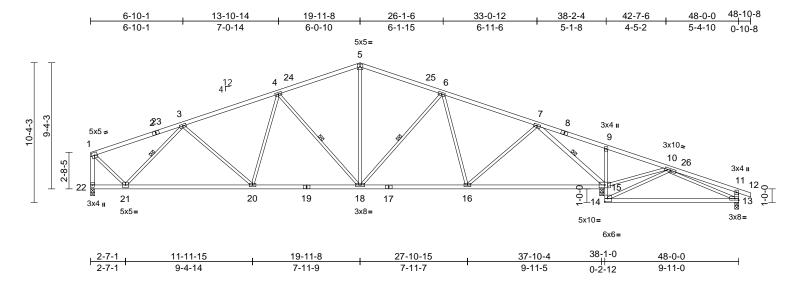
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSITPTI Quality Criteria, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 169	
P230875-01	G02	Roof Special	1	1	Job Reference (optional)	162145495

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Tue Nov 21 09:45:42 ID:BgwYwsF1YRRIWorR6G1sQuzvUJ_-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:85.3

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Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.70	Vert(LL)	-0.29	15-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15		BC	0.95	Vert(CT)	-0.60	15-16	>762	180		
BCLL	0.0	Rep Stress Incr	YES		WB	0.62	Horz(CT)	0.10	15	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S							Weight: 229 lb	FT = 20%
LUMBER			2	Wind: ASCE	7-16; Vult=115mr	oh (3-seo	cond aust)						
TOP CHORD	2x4 SP No.2		_,		h; TCDL=6.0psf; B								
BOT CHORD	2x4 SP No.2 *Except	ot* 9-14:2x3 SPF No.	.2	Ke=1.00; Ca	t. II; Exp C; Enclos	sed; MW	FRS (envelo	pe)					
WEBS	2x3 SPF No.2 *Exce			exterior zone	and C-C Exterior	(2E) 8-2	-12 to 13-2-1	2,					
	SP No.2			Interior (1) 1	3-2-12 to 28-0-8, E	Exterior(2	2R) 28-0-8 to)					
BRACING					ior (1) 33-0-8 to 56			er left					
TOP CHORD	Structural wood she	athing directly applie	ed or		oosed ; end vertica								
	3-2-5 oc purlins, ex				c for members and			r					
BOT CHORD					own; Lumber DOL	=1.60 pl	ate grip						
	bracing.			DOL=1.60									
WEBS	•	3-21, 4-18, 6-18, 7-	15 ³		e 3x6 MT20 unless								
REACTIONS		, 15=0-3-8, 22=0-3-8	1		as been designed f								
	Max Horiz 22=-192 (, ,			ad nonconcurrent			ads.					
	Max Uplift 13=-95 (L) 5)		are assumed to be	e SP No.	2 crushing						
	22=-294 (capacity of 5									
	Max Grav 13=309 (I		(1) ⁶		hanical connection								
	22=1648		.,,		capable of withst								
FORCES	(lb) - Maximum Corr	. ,			lb uplift at joint 15	and 95	ib uplift at joi	nt					
1 ONOLO	Tension	iprocolori/maximum	-	13. This trues is	designed in second		:+h +h = 2010						
TOP CHORD		-2268/580	7)		designed in accor Residential Code			and					
	4-5=-1843/560, 5-6=				nd referenced star			anu					
	6-7=-1914/494, 7-9=					iuaru Ar	NGI/TETT.						
	9-10=-169/834, 10-1	,)/23. L	OAD CASE(S)	Standard								
	11-13=-321/198, 1-2		,										
BOT CHORD													Th
	18-20=-285/2052, 1											TATE OF M	ALC D
	15-16=-142/1191, 1	4-15=0/110,										AFUT	ISS W
	9-15=-328/162, 13-1	14=-170/34									4		N.S.
WEBS	3-21=-1252/388, 3-2	20=0/218, 4-20=0/23	4,								H	SCOT	M NON
	4-18=-652/242, 5-18	3=-158/747,									9	SEVI	
	6-18=-376/195, 6-16	6=-315/156,									8.		
	7-15=-2606/585, 10	-15=-763/266,									0		1~0
	10-14=-13/190, 10-1	13=0/448,									0 (1	· kize and The
	1-21=-245/1529, 7-1	16=-42/748									V A	Callin	AMA
NOTES											M7	PE-2001	018807 188
·····											N	OX PE-2001	1000/ 200

NOTES

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



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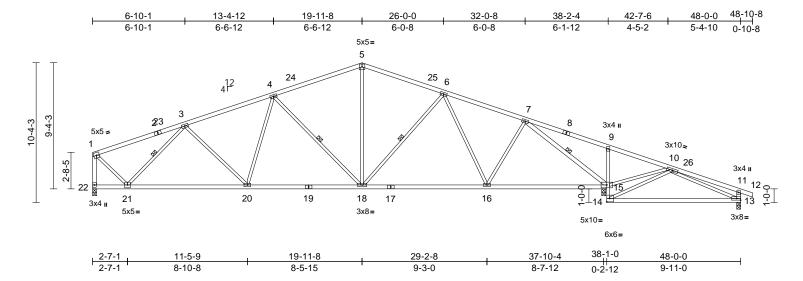
November 21,2023

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 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not besign value for use only with with twit even connectors. This design is based only upon parameters shown, and is for an individual building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 169	
P230875-01	G03	Roof Special	1	1	Job Reference (optional)	162145496

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Tue Nov 21 09:45:42 ID:yUx?APYjf7bC0eFF40_jx9zvUIb-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:85.3

Loading	(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		тс	0.64	Vert(LL)	-0.28	13-14	>408	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15		BC	0.89	Vert(CT)	-0.57	13-14	>203	180		
BCLL	0.0	Rep Stress Incr	YES		WB	0.81	Horz(CT)	0.11	15	n/a	n/a		
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S							Weight: 230 lb	FT = 20%
BCLL BCDL LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	0.0 10.0 2x4 SP No.2 2x4 SP No.2 *Excep 2x3 SPF No.2 *Excep 2x3 SPF No.2 *Excep SP No.2 Structural wood she 3-3-1 oc purlins, exx Rigid ceiling directly bracing, Except: 6-0-0 oc bracing: 13 1 Row at midpt (size) 13=0-3-8, Max Horiz 22=-192 (Max Uplift 13=-94 (L 22=-294 (Max Grav 13=332 (L 22=1655 (b) - Maximum Com Tension 1-3=-1257/295, 3-4= 4-5=-1872/555, 5-6= 6-7=-1857/488, 7-9= 10-11=-318/65, 11-1 1-22=-81/204, 20-2 18-20=-293/2083, 10 15-16=-161/1428, 14 9-15=-399/200, 13-1 3-21=-1263/379, 3-2 4-18=-636/246, 5-18	Rep Stress Incr Code at* 9-14:2x3 SPF No.2 athing directly applied cept end verticals. applied or 10-0-0 oc 14. 3-21, 4-18, 6-18, 7-1 15=0-3-8, 22=0-3-8 (LC 13) C 9), 15=-442 (LC 9) LC 8) C 26), 15=2423 (LC (LC 1) pression/Maximum =-2286/582, =-85/725, 9-10=-157/7 12=0/23, 11-13=-329/ 21=-334/1979, 6-18=-216/1832, 4-15=0/111, 14=-131/50 20=0/228, 4-20=0/202 3=-141/728, =-319/134, 7-16=-2/5	YES IRC201; 2 2 2x4 d or 3) 5 4) 5 5, 4) 5, 6) 1), 7), 7), 7), 731, 201,	Wind: ASCE Vasd=91mpl Ke=1.00; Ca exterior zone Interior (1) 11 33-0-8, Inter and right exp exposed;C-C reactions shh DOL=1.60 All plates are This truss ha chord live loa All bearings capacity of 5 Provide mec bearing plate joint 22, 442 13. This truss is International	WB Matrix-S 7-16; Vult=115mp 7; TCDL=6.0psf; Br t. II; Exp C; Enclose and C-C Exterior(3-2-12 to 28-0-8, E ior (1) 33-0-8 to 56 oosed; end vertica C for members and own; Lumber DOL= a 3x6 MT20 unless is been designed for ad nonconcurrent v are assumed to be 65 psi. hanical connection capable of withsta Ib uplift at joint 15 designed in accord Residential Code and referenced stam	0.81 h (3-sec CDL=6.0 ed; MW (2E) 8-2 xterior(2 -11-8 zc I left and forces 8 =1.60 pl otherwi or a 10.0 with any SP No. h (by oth anding 2 and 94 dance w sections	Horz(CT) cond gust) Dpsf; h=35ft; FRS (envelop 12 to 13-2-12 2R) 28-0-8 to ne; cantilever 4 right & MWFRS for ate grip se indicated. D psf bottom other live load 2 crushing ers) of truss to 194 lb uplift at 10 uplift at 10 uplift at join ith the 2018 : R502.11.1 at	0.11 pe) 2, r left ds. c t			n/a	STATE OF M STATE OF M SEVI	MISSOLIR I M. ER
NOTES 1) Unbalance this design	1-21=-247/1520 ed roof live loads have	,									S S S	PE-2001	018807 E
												am	CC -

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November 21,2023

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 169	
P230875-01	G04	Roof Special	4	1	Job Reference (optional)	162145497

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Tue Nov 21 09:45:43 ID:Qy0oyZm0QfseAPdi7olxgyzvUIJ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

PE-2001018807

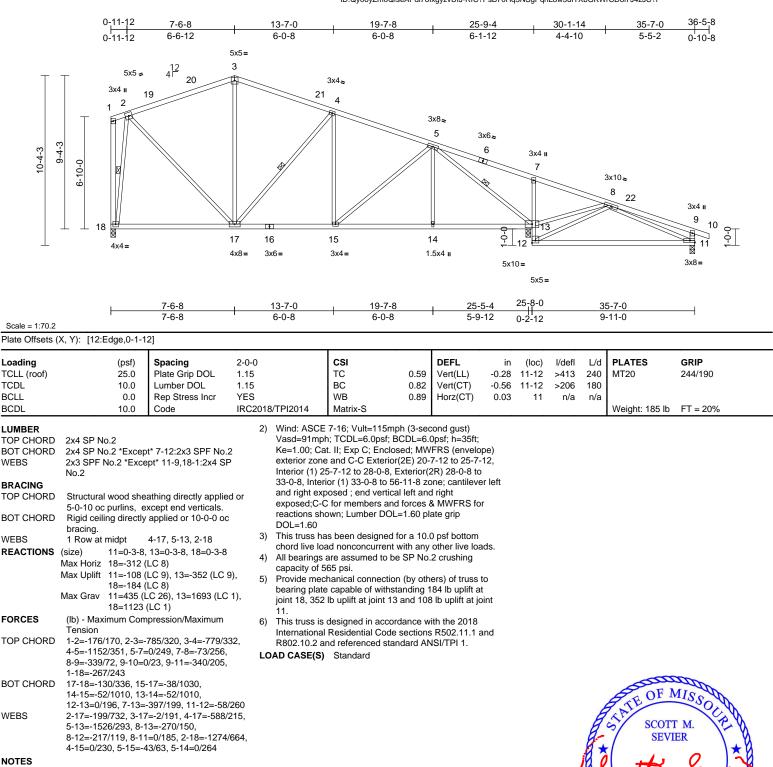
November 21,2023

16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com

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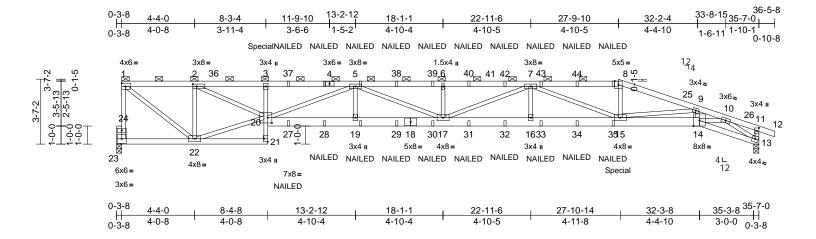


 Unbalanced roof live loads have been considered for this design.



Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 169	
P230875-01	H01	Half Hip Girder	1	3	Job Reference (optional)	162145498

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Tue Nov 21 09:45:44 ID:MtBPWsCbxjOYVxNdEMyN7YzvUHI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:63.8

Plate Offsets (X, Y): [2:0-2-8,0-1-8], [11:0-2-0,0-1-4], [20:0-2-12,0-3-8], [21:Edge,0-2-8]													
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2018	8/TPI2014	CSI TC BC WB Matrix-S	0.40 0.71 0.63	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.49 -0.72 0.26	(loc) 17 17 13	l/defl >870 >583 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 488 lb	GRIP 197/144 FT = 20%
	20-18,18-14:2x6 SPI 2x3 SPF No.2 2x4 SP No.2 Structural wood shea	athing directly applied cept end verticals, and	or or	(0.131"x3") n Top chords c oc, 2x4 - 1 rc Bottom chord 0-9-0 oc, 2x3 at 0-9-0 oc. Web connec All loads are	be connected tog ails as follows: connected as follow w at 0-7-0 oc. ds connected as fo s - 1 row at 0-9-0 o ted as follows: 2x3 considered equally ad as front (F) or b	vs: 2x3 - llows: 2 c, 2x6 - - 1 row y applie	• 1 row at 0-9- x4 - 1 row at 2 rows stagge at 0-9-0 oc. d to all plies,	ered	or t bott 12) "NA per 13) Har pro Ib d lb u	he orien com choi ILED" ir NDS gu nger(s) c vided su own and p at 27-	tation o rd. ndicate iideline or other fficient d 207 ll 9-10 o	of the purlin along s Girder: 3-10d ((ss. r connection devia to support conce o up at 8-0-4, and n top chord, and).148" x 3") toe-nails
	Rigid ceiling directly bracing. (size) 13=0-3-8, Max Horiz 23=-155 (Max Uplift 13=-938 (applied or 10-0-0 oc 23=0-3-8 LC 8) LC 9), 23=-879 (LC 9)	4)	CASE(S) sec provided to o unless other Unbalanced this design. Wind: ASCE	ction. Ply to ply cor listribute only loads wise indicated. roof live loads have 7-16; Vult=115mp	nnection s noted e been o h (3-sec	s have been as (F) or (B), considered for cond gust)		of s oth LOAD (1) De Pl Ur	uch con ers. CASE(S ead + Ro ate Incre niform Lo	nectior) Star oof Live ease=1 oads (II	n device(s) is the ndard e (balanced): Lurr .15 b/ft)	responsibility of ber Increase=1.15,
FORCES	Tension				Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-4-12 to 5-4-12, Interior (1) 5-4-12 to 27-9-10, Exterior(2R) 27-9-10 to 34-10-8, Interior (1) 34-10-8 to 36-5-8 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								
BOT CHORD		2=-102/298, 20-21=0/ 0=-3904/9889, 16-17=-3935/9536,	78, 5) 6) 7)	Provide adec This truss ha chord live loa All bearings	uate drainage to p s been designed fo ad nonconcurrent v are assumed to be	or a 10.0 vith any) psf bottom other live load				ł.	STATE OF M	IVI. VY V
WEBS 1-22=-1381/3585, 2-22=-2895/1158, 20-22=-930/2674, 2-20=-2143/5483, 5-20=-2285/1073, 5-19=-84/315, 5-17=-285/439, 6-17=-359/197, 7-17=-301/915, 7-16=-86/284, 7-15=-2839/1167, 8-15=-797/1970, 9-15=-1235/482, 9-14=-115/458, 10-14=-1601/4023, 10-13=-5259/2137 NOTES				capacity of 565 psi.) Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 938 lb uplift at joint 13 and 879 lb uplift at joint 23. 0) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.						DI8807			

Continued on page 2 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not besign value to dury with with where outputs into design is based only door parameters shown, and is for an individual building design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members and property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TPH1 Quality Criteria**, and **DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com) November 21,2023



Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 169	
P230875-01	H01	Half Hip Girder	1	3	Job Reference (optional)	162145498

Vert: 3=-539 (B), 5=-19 (B), 19=-54 (B), 4=-19 (B), 8=-19 (B), 27=-61 (B), 28=-54 (B), 29=-54 (B), 30=-54 (B), 31=-54 (B), 32=-54 (B), 33=-54 (B), 34=-54 (B), 35=-359 (B), 37=-22 (B), 38=-19 (B), 39=-19 (B), 40=-19 (B), 42=-19 (B), 43=-19 (B), Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Tue Nov 21 09:45:44 ID:MtBPWsCbxjOYVxNdEMyN7YzvUHI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

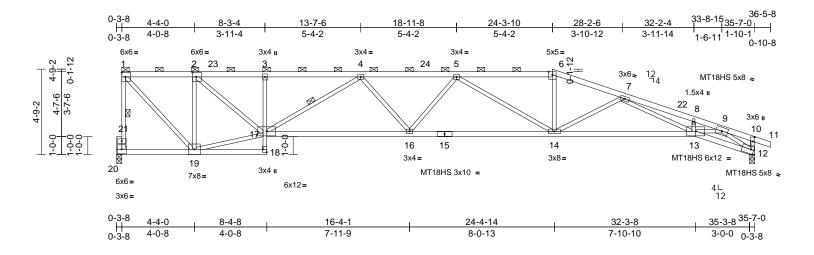
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 169	
P230875-01	H02	Half Hip	1	1	Job Reference (optional)	162145499

Run: 8.63 S. Nov. 1.2023 Print: 8.630 S.Nov. 1.2023 MiTek Industries. Inc. Tue Nov.21.09:45:45 ID:H9ITkowjyrkc_W4sw6U8I?zvUEE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:64.2

Plate Offsets ((X, Y): [2:0-2-8,0-3-0],	[10:0-3-0,0-1-4], [12	2:0-1-15,Ed	ge], [18:Edge,	0-2-8]								
Loading TCLL (roof) TCDL BCLL	(psf) 25.0 10.0 0.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES		CSI TC BC WB	0.94 0.88 0.90	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.45 -0.84 0.41	(loc) 14-16 14-16 12	l/defl >932 >502 n/a	L/d 240 180 n/a	PLATES MT20 MT18HS	GRIP 197/144 197/144
BCDL	10.0	Code	IRC2018	3/TPI2014	Matrix-S							Weight: 160 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD	2x4 SP No.2 *Excep 17-15,15-13:2x4 SP 2x3 SPF No.2 2x4 SP No.2 Structural wood she 1-5-1 oc purlins, ex 2-0-0 oc purlins (2-3	1650F 1.5E athing directly applie cept end verticals, a -8 max.): 1-6.	ed or	this design. Wind: ASCE Vasd=91mpl Ke=1.00; Ca exterior zone Interior (1) 5- 31-4-8, Interi and right exp exposed;C-C	roof live loads H 7-16; Vult=115 1; TCDL=6.0psi t. II; Exp C; Enc and C-C Exter 4-12 to 24-3-1(or (1) 31-4-8 to osed ; end vert f or members a wwn; Lumber D	mph (3-sec ; BCDL=6.0 closed; MW rior(2E) 0-4 0, Exterior(2 36-5-8 zor cical left and and forces 8	cond gust) Dpsf; h=35ft; FRS (envelo 12 to 5-4-12 2R) 24-3-10 t e; cantilever I right & MWFRS fo	ope) 2, to r left					
BOT CHORD WEBS REACTIONS	bracing. 1 Row at midpt	1-20, 4-17 20=0-3-8 LC 8)	3) 4) 5) 9) 6)	DOL=1.60 Provide adec All plates are This truss ha chord live loa	uate drainage MT20 plates u s been designe ad nonconcurre are assumed to	to prevent v inless other ed for a 10.0 nt with any	water pondin wise indicate) psf bottom other live loa	ed.					

All bearings are assumed to be SP No.2 crushing 6) Max Grav 12=1653 (LC 1), 20=1575 (LC 1) capacity of 565 psi. 7) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

Provide mechanical connection (by others) of truss to 8) bearing plate capable of withstanding 386 lb uplift at joint 12 and 349 lb uplift at joint 20.

This truss is designed in accordance with the 2018 9) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



Page: 1

NOTES

WEBS

FORCES

TOP CHORD

BOT CHORD

(lb) - Maximum Compression/Maximum

9-10=-245/91, 10-11=0/22, 10-12=-334/175,

19-20=-129/266, 18-19=-34/52, 17-18=0/66,

1-20=-1551/414, 6-7=-3847/931,

1-2=-1335/382, 2-3=-2958/720,

3-4=-2984/722, 4-5=-4153/994,

3-17=-325/149, 16-17=-815/3962,

2-17=-442/2124, 6-14=-138/893,

8-13=-108/106, 2-19=-1651/416, 1-19=-464/1925, 17-19=-183/1324,

7-14=-718/313, 7-13=-301/1304,

4-16=-13/352, 4-17=-1151/312, 5-16=-86/145, 5-14=-878/225

9-13=-533/2479, 9-12=-3565/847,

14-16=-913/4206, 13-14=-962/4258,

7-8=-5703/1393, 8-9=-5708/1345,

Tension

5-6=-3598/901

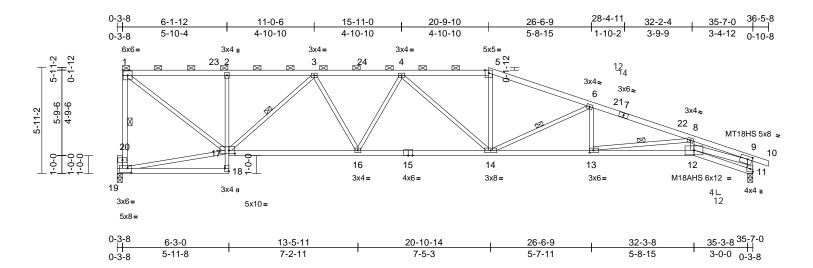
12-13=-738/3117

 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
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314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 169	
P230875-01	H03	Half Hip	1	1	Job Reference (optional)	162145500

Run: 8,63 S Nov 1 2023 Print: 8,630 S Nov 1 2023 MiTek Industries, Inc. Tue Nov 21 09:45:46 ID:67E0hIdUXMwXKGxqla0WY0zvUDL-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale =	1:64.5
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Plate Offsets (X, Y): [9:0-3-0,0-2-0],	[13:0-2-8.0-1-8]. [17:0)-4-0.0-2	-4]. [18:Edae.0	-2-8]. [19:0-2-8.(0-3-01							
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	8/TPI2014	CSI TC BC WB Matrix-S	0.79 0.90 0.82	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.35 -0.64 0.34	(loc) 13-14 12-13 11	l/defl >999 >659 n/a	L/d 240 180 n/a	PLATES MT20 MT18HS M18AHS Weight: 171 lb	GRIP 197/144 244/190 142/136 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD WEBS TOP CHORD BOT CHORD BOT CHORD BOT CHORD WEBS	1.5E 2x4 SP No.2 *Excep 15-12:2x4 SP 2400F 2x3 SPF No.2 *Exce No.2, 12-9:2x4 SP 1 2x4 SP No.2 Structural wood she 2-2-10 oc purlins, e 2-0-0 oc purlins, (3-0 Rigid ceiling directly bracing. 1 Row at midpt (size) 11=0-3-8, Max Horiz 19=-264 (Max Uplift 11=-384 (Max Grav 11=1654, (b) - Maximum Com Tension 1-19=-1522/400, 5-6 6-8=-4222/986, 8-9= 9-11=-1654/485, 1-2 2-3=-1764/490, 3-4= 4-5=-2989/787	pt* 19-1,9-11:2x4 SP 650F 1.5E athing directly applied xcept end verticals, ar -7 max.): 1-5. applied or 7-5-7 oc 1-19, 6-14, 8-13, 3-17 19=0-3-8 LC 8) LC 9), 19=-352 (LC 9) (LC 1), 19=1570 (LC 1) pression/Maximum S=-3223/805, -5709/1332, 9-10=0/2 2=-1759/491, -2901/749, 3=0/120, 2-17=-403/21 4-16=-619/3075, 2-13=-1212/5295, 2=-37/496, -14=-92/677, 3=0/380, 6=-91/549, 6=-366/202,	or nd 3) 4) 5) 6) 7) 7) 8) 3, 9) 8, 10	this design. Wind: ASCE Vasd=91mpl Ke=1.00; Ca exterior zone Interior (1) 5- 27-10-8, Inter left and right exposed;C-C reactions sho DOL=1.60 Provide adec All plates are This truss ha chord live loc All bearings 3- capacity of 5 Bearing at jo using ANSI/7 designer sho Provide mec bearing plate joint 19 and 3 This truss is International R802.10.2 ar	int(s) 11 conside IPI 1 angle to gra- uld verify capaci- hanical connecti- e capable of with 384 Ib uplift at jo designed in acco Residential Cod nd referenced st r/lin representation ation of the purlin d.	nph (3-sec BCDL=6. osed; MW or(2E) 0-5 Exterior(2I to 36-5-8 z vertical left diaf forces 5 DL=1.60 pl o prevent 1 less othei d for a 10. tt with any be SP No. ers parallel ain formul: ity of bear on (by oth standing 3 int 11. ordance w le sections andard AN on does no	cond gust) Opsf; h=35ft; FRS (envelo 4 to 5-5-4, R) 20-9-10 to cone; cantileva and right 4 MWFRS fo ate grip water pondin, wise indicate 0 psf bottom other live loa 2 crushing 1 to grain valu a. Building ng surface. ers) of truss i 52 lb uplift at ith the 2018 c R502.11.1 a isl/TPI 1. ot depict the si	pe) ver r g. ed. ads. ue to t				STATE OF M STATE OF M SCOTT SEVI PE-20010 PE-20010	ER JENOT

 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not besign value to dury with with where outputs into design is based only door parameters shown, and is for an individual building design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members and property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TPH1 Quality Criteria**, and **DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)



November 21,2023

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 169	
P230875-01	H04	Half Hip	1	1	Job Reference (optional)	162145501

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Tue Nov 21 09:45:46 ID:InS18g9ixBb8EBtTuXJ3tVzvUCe-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

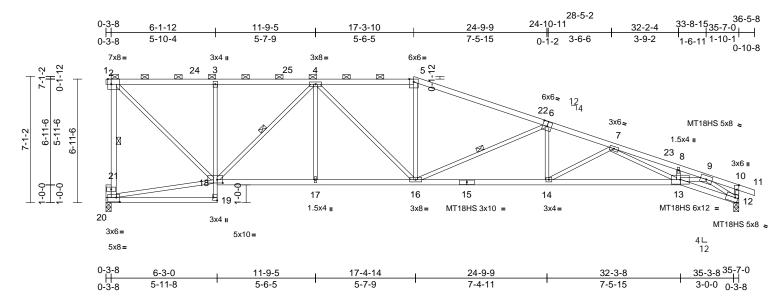


Plate Offsets (X, Y): [2:0-2-4,Edge], [6:0-3-0,0-3-4], [10:0-3-0,0-1-4], [12:0-1-15,Edge], [18:0-3-12,0-2-4], [19:Edge,0-2-8], [20:0-2-4,0-3-0]

Scale = 1:64.8

Loading TCLL (roof) TCDL BCLL	(psf) 25.0 10.0 0.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES		CSI TC BC WB	0.96 0.97 0.86	DEFL Vert(LL) Vert(CT) Horz(CT)		(loc) 13-14 13-14 12	l/defl >999 >595 n/a	L/d 240 180 n/a	PLATES MT20 MT18HS	GRIP 197/144 197/144
BCDL	10.0	Code	IRC201	8/TPI2014	Matrix-S							Weight: 176 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SP No.2 Structural wood she except end verticals (3-4-0 max.): 1-5. Rigid ceiling directly bracing. 1 Row at midpt	et* 19-3:2x3 SPF No.2 5 1.5E spt* 20-2:2x4 SP No.2 athing directly applied , and 2-0-0 oc purlins applied or 2-2-0 oc 2-20, 4-18, 6-16	2 d,	Vasd=91mpl Ke=1.00; Ca exterior zone Interior (1) 5 24-4-8, Interi and right exp exposed;C-C reactions sho DOL=1.60 Provide adec All plates are chord live loz All bearings	7-16; Vult=115n n; TCDL=6.0psf; t. II; Exp C; Encl. and C-C Exteric 0-0 to 17-3-10, I or (1) 24-4-8 to 3 osed ; end vertic for members ar bown; Lumber DC quate drainage to MT20 plates un s been designed ad nonconcurren are assumed to I	BCDL=6.0 osed; MW or(2E) 0-0- Exterior(2F) 36-5-8 zor cal left and forces 8 DL=1.60 pla o prevent v bless other d for a 10.0 t with any	Dpsf; h=35ft; FRS (envelo -0 to 5-0-0, R) 17-3-10 to e; cantilever i right & MWFRS fo ate grip water pondin wise indicate) psf bottom other live loa	left r g.				<u> </u>	
	Max Horiz 20=-320 (Max Uplift 12=-379 (Max Grav 12=1653	LC 9), 20=-365 (LC 9	,	using ANSI/1	int(s) 12 conside PI 1 angle to gra uld verify capaci	ain formula	a. Building	Ie					
FORCES	(lb) - Maximum Com Tension	pression/Maximum	8)	Provide mec	hanical connections capable of with	on (by oth	ers) of truss						
TOP CHORD	2-20=-1534/411, 5-7 7-8=-5723/1346, 8-9	9=-5720/1295, 1=0/22, 10-12=-336/1	,	joint 12 and 3 This truss is International R802.10.2 a	365 lb uplift at joi designed in acco Residential Cod nd referenced sta rlin representatio	int 20. ordance w e sections andard AN	ith the 2018 R502.11.1 a ISI/TPI 1.	and				OF M	ALSS
BOT CHORD	19-20=-17/52, 18-19 17-18=-375/2201, 10 14-16=-719/3691, 13 12-13=-707/3112	6-17=-375/2201,	29,		ation of the purlin I.						B	STATE OF M	
WEBS NOTES 1) Unbalance	18-20=-230/376, 4-1	8=-9/429, 4-16=-183/3 14=-4/516, 8=-314/1310, 12=-3558/812, 135/1927	382,									PE-20010	12A

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



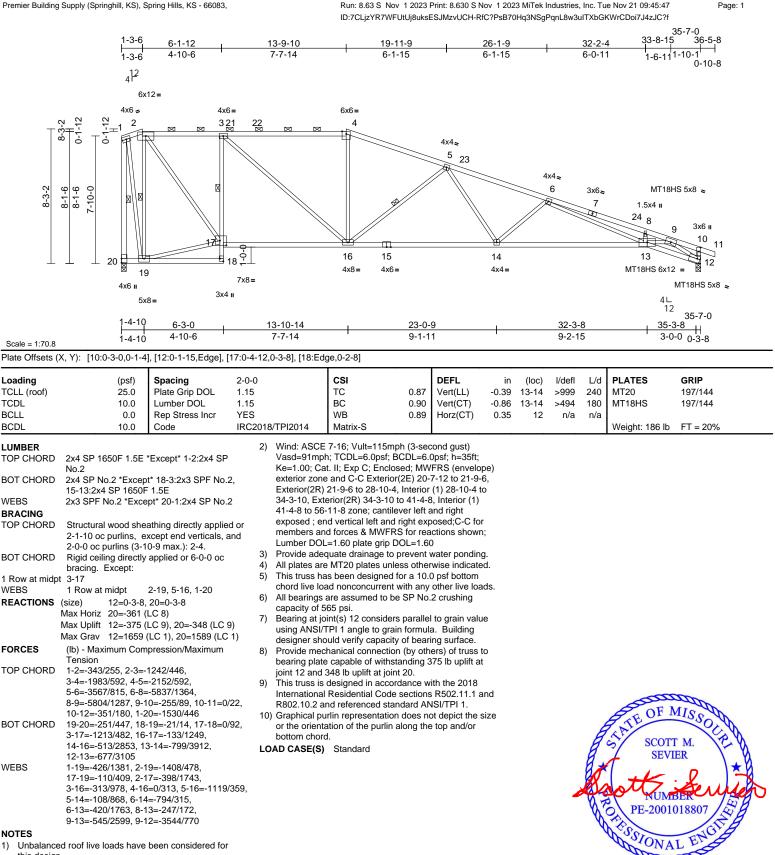
November 21,2023

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 169	
P230875-01	H05	Hip	1	1	Job Reference (optional)	162145502

Run: 8.63 S. Nov. 1.2023 Print: 8.630 S.Nov. 1.2023 MiTek Industries. Inc. Tue Nov.21.09:45:47



NOTES

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

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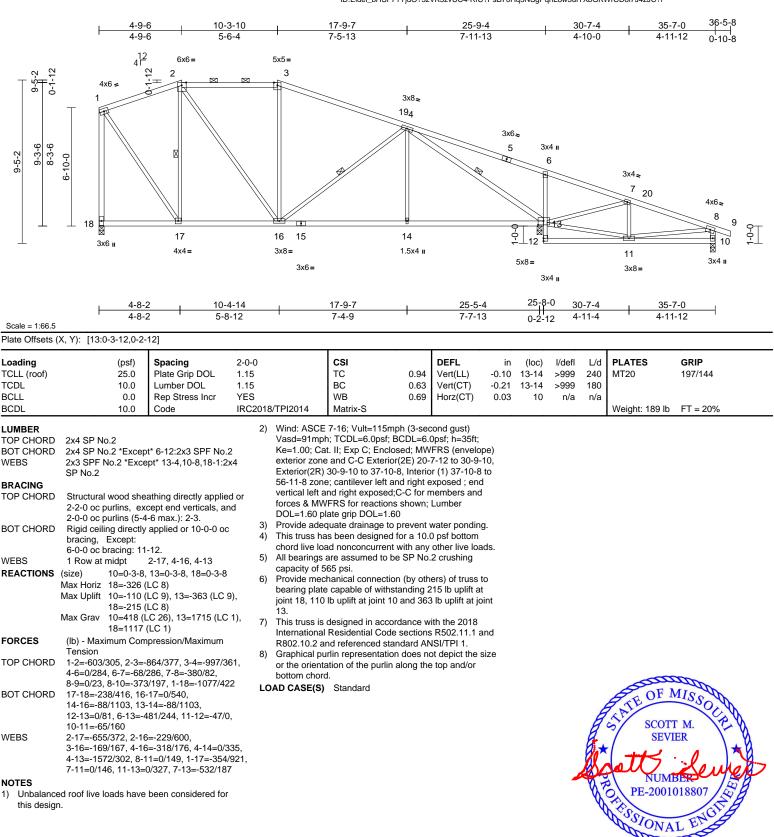


November 21,2023

E

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 169	
P230875-01	H06	Hip	1	1	Job Reference (optional)	162145503

Run: 8.63 S. Nov. 1.2023 Print: 8.630 S. Nov. 1.2023 MiTek Industries. Inc. Tue Nov.21.09:45:48 ID:Eidei_bHSF71YjdO?5zVK5zvUC4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



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November 21,2023

E

Page: 1

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 169	l62145504
P230875-01	J01	Jack-Open	2	1	Job Reference (optional)	

4-0-12

4-0-12

-0-10-8

0-10-8

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S. Nov. 1.2023 Print: 8.630 S.Nov. 1.2023 MiTek Industries. Inc. Tue Nov.21.09:45:48 ID:DBx_k49yfXKfalt_GW7CO?zviN?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

l/defl

>999

>999

3

L/d

240

180

n/a n/a

PLATES

Weight: 14 lb

MT20

GRIP

197/144

FT = 20%



4-0-12 Spacing 2-0-0 CSI DEFL in (loc) Plate Grip DOL 1.15 тс 0.31 Vert(LL) 0.02 4-5 BC Lumber DOL 1 15 Vert(CT) 0.20 -0.02 4-5 Rep Stress Incr YES WB 0.00 Horz(CT) -0.02 Code IRC2018/TPI2014 Matrix-R LOAD CASE(S) Standard Structural wood sheathing directly applied or 4-0-12 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc 3= Mechanical, 4= Mechanical, Max Horiz 5=63 (LC 9) Max Uplift 3=-68 (LC 12), 5=-67 (LC 8) 3=123 (LC 1), 4=75 (LC 3), 5=252

FORCES

Scale = 1:28.2 Loading

TCLL (roof)

TCDI

BCLL

BCDL

WEBS BRACING TOP CHORD

LUMBER

TOP CHORD

BOT CHORD

BOT CHORD

REACTIONS (size)

Tension TOP CHORD 2-5=-218/249, 1-2=0/22, 2-3=-70/31 BOT CHORD 4-5=0/0

NOTES

Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 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

(psf)

25.0

10.0

0.0

10.0

5=0-3-8

(LC 1)

(lb) - Maximum Compression/Maximum

2x4 SP No.2

2x4 SP No.2 2x3 SPF No.2

bracing.

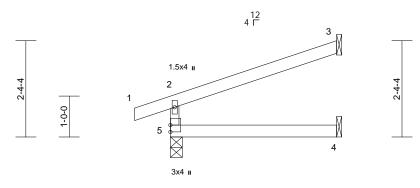
Max Grav

- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Bearings are assumed to be: , Joint 5 SP No.2 crushing capacity of 565 psi.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to 5) bearing plate capable of withstanding 67 lb uplift at joint 5 and 68 lb uplift at joint 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.











Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 169	
P230875-01	J02	Jack-Open	2	1	Job Reference (optional)	162145505

-0-10-8

0-10-8

1

2-2-4

1-3-2

1-7-1

1-7-1

12 7 Г

3х4 ш

3

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Tue Nov 21 09:45:48 ID:HoqEKO8i7w3xKSjc965kJazviN1-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

2 5 4 3x4 II DEFL in (loc) 1/defl L/d PLATES 0.16 Vert(11) 0.00 4-5 >999 240 MT20

Scale = 1:28.3 Plate Offsets (X, Y): [2:0-2-0.0-1-4

Plate Offsets ()	X, Y): [2:0-2-0,0-1-4]											
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC BC WB Matrix-R	0.16 0.09 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.00 0.00 -0.01	(loc) 4-5 4-5 3	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 7 lb	GRIP 197/144 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	5=0-3-8 Max Horiz 5=55 (LC Max Uplift 3=-40 (LC (LC 12)	cept end verticals. applied or 10-0-0 od inical, 4= Mechanica 9) ; 12), 4=-8 (LC 12), 5	6) This truss is Internationa R802.10.2 a LOAD CASE(S) ed or	designed in accord Residential Code nd referenced stan	sections	s R502.11.1 a	and					
FORCES TOP CHORD BOT CHORD NOTES 1) Wind: ASC Vasd=91m	Max Grav 3=42 (LC (LC 1) (Ib) - Maximum Com Tension 2-5=-141/97, 1-2=0/: 4-5=0/0 CE 7-16; Vult=115mph iph; TCDL=6.0psf; BC	pression/Maximum 35, 2-3=-41/30 (3-second gust) DL=6.0psf; h=35ft;										500
exterior zor and right e exposed;C reactions s DOL=1.60 2) This truss I chord live I 3) Bearings a capacity of 4) Refer to gin 5) Provide me bearing pla	has been designed for load nonconcurrent wi ire assumed to be: , Jo	E) zone; cantilever I left and right orces & MWFRS for 1.60 plate grip r a 10.0 psf bottom th any other live load bint 5 SP No.2 crush ss connections. by others) of truss to nding 6 lb uplift at joi	eft ds. ing						-		PE-200	TER Lence



Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 169	
P230875-01	J03	Jack-Open	2	1	Job Reference (optional)	162145506

2-8-12

2-8-12

12 7 Г

3

-0-10-8

0-10-8

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Scale = 1:29.7

Loading

TCDL

BCLL

BCDL

WEBS BRACING TOP CHORD

LUMBER

TOP CHORD

BOT CHORD

BOT CHORD

FORCES

NOTES

TOP CHORD

BOT CHORD

DOL=1.60

REACTIONS (size)

TCLL (roof)

Plate Offsets (X, Y): [2:0-2-0,0-1-4]

2x4 SP No.2

2x4 SP No.2

bracing.

Max Uplift

Max Grav

Tension

4-5=0/0

2x3 SPF No.2

(psf)

25.0

10.0

10.0

5=0-3-8

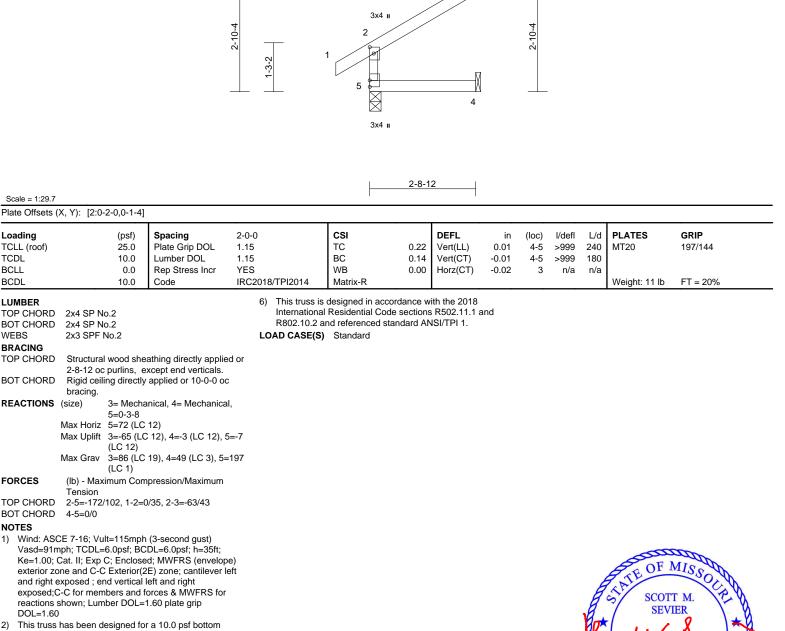
(LC 12)

(LC 1)

0.0

Run: 8.63 S. Nov. 1.2023 Print: 8.630 S.Nov. 1.2023 MiTek Industries. Inc. Tue Nov.21.09:45:48 ID:O1ajU05B4hZWrqPrwG1o8kzviN5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



2) chord live load nonconcurrent with any other live loads. 3) Bearings are assumed to be: , Joint 5 SP No.2 crushing

capacity of 565 psi. Refer to girder(s) for truss to truss connections. 4)

Provide mechanical connection (by others) of truss to 5) bearing plate capable of withstanding 7 lb uplift at joint 5, 65 lb uplift at joint 3 and 3 lb uplift at joint 4.



E

NUMBER

PE-2001018807

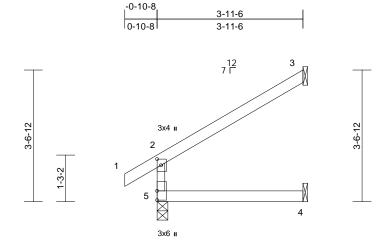
November 21,2023

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 169	
P230875-01	J04	Jack-Open	8	1	Job Reference (optional)	162145507

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Tue Nov 21 09:45:49 ID:WGLCef2g0S34ND63hQys_uzviN9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



3-11-6	L
	1

Scale = 1:31.2 Plate Offsets (X, Y): [2:0-2-0,0-1-4]

Flate Offsets ((X, Y): [2:0-2-0,0-1-4]	-									-	
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC BC WB Matrix-R	0.33 0.22 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.02 -0.02 -0.04	(loc) 4-5 4-5 3	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 15 lb	GRIP 197/144 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x3 SPF No.2 Structural wood she 3-11-6 oc purlins, e Rigid ceiling directly bracing.	xcept end verticals. applied or 10-0-0 oc inical, 4= Mechanica C 12) C 12), 5=-9 (LC 12)	Internationa R802.10.2 a LOAD CASE(S) ed or	designed in accor I Residential Code Ind referenced star Standard	sections	R502.11.1 a	Ind					
Vasd=91n Ke=1.00; (exterior zc and right e exposed;C reactions s DOL=1.60 2) This truss chord live 3) Bearings a capacity o 4) Refer to g 5) Provide m bearing pl	CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Exterior(2 exposed ; end vertical I C-C for members and for shown; Lumber DOL=) has been designed for load nonconcurrent wi are assumed to be: , Jo	, //35, 2-3=-90/56 (3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop E) zone; cantilever li eft and right orces & MWFRS for 1.60 plate grip r a 10.0 psf bottom th any other live load bint 5 SP No.2 crush ss connections. (by others) of truss to	eft Is. ing							B	STATE OF I SEVI SEVI DE SUNA PE-2001	LENGT

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



November 21,2023

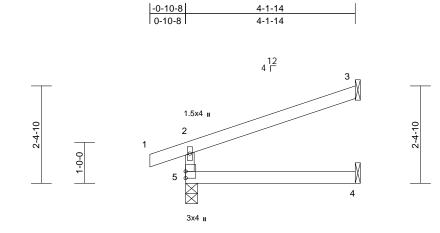
Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 169	
P230875-01	J05	Jack-Open	1	1	Job Reference (optional)	162145508

4-1-14 4-1-14

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Tue Nov 21 09:45:49 ID:5hf40d?ojXhVWINU0IO9MGzviNC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





					4-1-	14						
Scale = 1:28.2												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	0.02	4-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.03	4-5	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.02	3	n/a	n/a		

DULL	0.0	Rep Suess Inci	IES	VVD 0.00	-0.02	3	11/a 11/a	1	
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R				Weight: 15 lb	FT = 20%
LUMBER			LOAD CASE(S)	Standard					
TOP CHORD	2x4 SP No.2								
BOT CHORD									
WEBS	2x3 SPF No.2								
BRACING									
TOP CHORD	Structural wood she 4-1-14 oc purlins, e	eathing directly applied except end verticals.	lor						
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 oc							
REACTIONS	•	anical, 4= Mechanical,							
	Max Horiz 5=64 (LC	; 9)							
	Max Uplift 3=-69 (LC	,							
	Max Grav 3=126 (L0 (LC 1)	C 1), 4=76 (LC 3), 5=2	256						
FORCES	(lb) - Maximum Con Tension	npression/Maximum							
TOP CHORD		0/22 2-3=-72/31							
BOT CHORD									
NOTES									
	CE 7-16; Vult=115mph	n (3-second aust)							
	nph; TCDL=6.0psf; BC								
Ke=1.00;	Cat. II; Exp C; Enclose	ed; MWFRS (envelope	e)						
	one and C-C Exterior(2		ft					~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	(The
	exposed ; end vertical							O DE	ALL ALL
	C-C for members and f shown; Lumber DOL=							TATE OF	MISSO
DOL=1.60		1.00 plate glip					6	14	
	has been designed fo	or a 10.0 psf bottom					B	SCOT	Т М. 💦
chord live	load nonconcurrent w	ith any other live loads	S.				R	/ SEV	TER \
	are assumed to be: , J	oint 5 SP No.2 crushir	ng					1	Q
capacity o								Aster	Ser
	irder(s) for truss to tru nechanical connection							NUM	BER
	late capable of withsta		nt				8 to	PE-2001	
	b uplift at joint 3.	naing oo io upint at joi					N,	TO A	
	is designed in accord	ance with the 2018					Y	NºSa-	GIL
	nal Residential Code s		d					ESSIONA	LET
R802.10.2	2 and referenced stand	dard ANSI/TPI 1.						an	T
								Novembe	er 21,2023
								10001100	

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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 169	
P230875-01	J06	Jack-Open	1	1	Job Reference (optional)	l62145509

Run: 8.63 S. Nov. 1.2023 Print: 8.630 S.Nov. 1.2023 MiTek Industries. Inc. Tue Nov.21.09:45:49 ID:DwQZAGyHgJB4184jnSKDCQzviNG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

GRIP

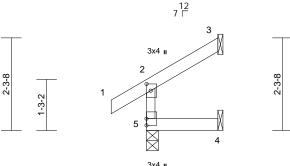
197/144

FT = 20%

F

5 4 \triangleleft 3x4 1 - 9 - 3Scale = 1:28.5 Plate Offsets (X, Y): [2:0-2-0,0-1-4] PLATES Loading Spacing 2-0-0 CSI DEFL l/defl L/d (psf) in (loc) Plate Grip DOL TCLL (roof) 25.0 1.15 TC 0.16 Vert(LL) 0.00 4-5 >999 240 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.09 Vert(CT) 0.00 4-5 >999 180 BCLL 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 3 -0.01 n/a n/a BCDL 10.0 Code IRC2018/TPI2014 Matrix-R Weight: 8 lb LUMBER 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and TOP CHORD 2x4 SP No.2 R802.10.2 and referenced standard ANSI/TPI 1. 2x4 SP No.2 BOT CHORD 2x3 SPF No.2 LOAD CASE(S) Standard WEBS BRACING TOP CHORD Structural wood sheathing directly applied or 1-9-3 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. **REACTIONS** (size) 3= Mechanical, 4= Mechanical, 5=0-3-8 Max Horiz 5=58 (LC 9) Max Uplift 3=-44 (LC 12), 4=-7 (LC 12), 5=-6 (LC 12) Max Grav 3=50 (LC 19), 4=32 (LC 3), 5=163 (LC 1) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 2-5=-145/97, 1-2=0/35, 2-3=-44/32 BOT CHORD 4-5=0/0 NOTES 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) OF MISS exterior zone and C-C Exterior(2E) zone: cantilever left F and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for SCOTT M. reactions shown; Lumber DOL=1.60 plate grip SEVIER DOL=1.60 This truss has been designed for a 10.0 psf bottom 2) chord live load nonconcurrent with any other live loads. 3) Bearings are assumed to be: , Joint 5 SP No.2 crushing capacity of 565 psi. PE-2001018807 Refer to girder(s) for truss to truss connections. 4) Provide mechanical connection (by others) of truss to 5) bearing plate capable of withstanding 6 lb uplift at joint SIONAL 5, 7 lb uplift at joint 4 and 44 lb uplift at joint 3. November 21,2023 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not beigh valid for use only with with with sets outputs into design is based only door parameters shown, and is for an individual dualing component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria**, and **DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com) 16023 Swingley Ridge Rd. Chesterfield MO 63017 314.434.1200 / MiTek-US.com

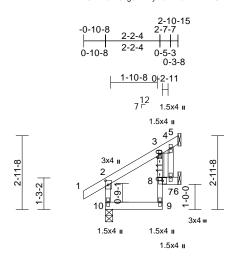
-0-10-8 1-9-3 0-10-8 1 - 9 - 3

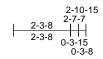


Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 169	
P230875-01	J07	Jack-Open	1	1	Job Reference (optional)	l62145510

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Page: 1





Scale = 1:46.3

Plate Offsets (X, Y): [2:0-2-0,0-1-4]

	(,,, ,): [<u>_:0</u> _ 0;0 : .]											
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC BC WB Matrix-S	0.14 0.13 0.01	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.00 0.00 -0.01	(loc) 8 9 5	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 14 lb	GRIP 197/144 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 *Excep 2x3 SPF No.2 Structural wood she 2-10-15 oc purlins, Rigid ceiling directly bracing. (size) 5= Mecha 10=0-3-8 Max Horiz 10=76 (L0 Max Uplift 5=-26 (LC 10=-7 (L0 Max Grav 5=59 (LC	ot* 9-3:2x3 SPF No.2 athing directly applie except end verticals applied or 10-0-0 or anical, 6= Mechanica C 12) C 12), 6=-46 (LC 12), C 12) C 12), 6=70 (LC 19),	5) Provide bearing 2 10, 26 I 6) This tru Internat R802.11 LOAD CAS c	mechanical connect plate capable of with o uplift at joint 5 and ss is designed in acc ional Residential Coc 0.2 and referenced st E(S) Standard	nstanding 7 46 lb uplift ordance w de sections	' lb uplift at jo at joint 6. ith the 2018 s R502.11.1 a	int					
FORCES	10=204 (l (lb) - Maximum Com	,										
TOP CHORD BOT CHORD		29										
WEBS	7-8=0/0, 6-7=0/0 4-7=-40/24											
NOTES											ALLER	ADD.
Vasd=91m Ke=1.00; (exterior zc and right e exposed;(reactions s DOL=1.60 2) This truss chord live 3) Bearings a crushing c	CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Exterior(2 exposed; end vertical C-C for members and f shown; Lumber DOL=) has been designed fo load nonconcurrent wi are assumed to be: , Jo apacity of 565 psi. irder(s) for truss to tru	DL=6.0psf; h=35ft; d; MWFRS (envelop E) zone; cantilever l left and right orces & MWFRS for 1.60 plate grip r a 10.0 psf bottom ith any other live loar oint 10 SP No.2	left								STATE OF J SCOT SEV NUM PE-2001	T M. HER BER 018807

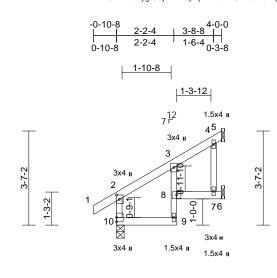
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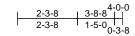
November 21,2023

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 169	
P230875-01	J08	Jack-Open	4	1	Job Reference (optional)	162145511

Run: 8,63 S Nov 1 2023 Print: 8,630 S Nov 1 2023 MiTek Industries, Inc. Tue Nov 21 09:45:50 ID:CNMi1eYygsuuywTBnJjFqFzviNo-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:44

Plate Offsets (X, Y): [2:0-2-0,0-1-4]

	(7, 1). [2.0 2 0,0 1 4]	-										
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI20	CSI TC BC WB 14 Matrix-S	0.17 0.17 0.01		in 0.02 -0.03 -0.02	(loc) 8 9 5	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 18 lb	GRIP 197/144 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 *Excep 2x3 SPF No.2 Structural wood she 4-0-0 oc purlins, ex Rigid ceiling directly bracing.	eathing directly applie cept end verticals. ^a applied or 10-0-0 or anical, 6= Mechanica LC 12) C 12), 6=-47 (LC 12), C 12) 19), 6=116 (LC 19),	bearin 10, 43 6) This tr Interna d or R802. LOAD CA	le mechanical connecti g plate capable of with I buplift at joint 5 and 4 uss is designed in acco ational Residential Cod 10.2 and referenced st SE(S) Standard	standing 1 47 lb uplift ordance w le sections	0 lb uplift at joi at joint 6. ith the 2018 s R502.11.1 an						
FORCES TOP CHORD BOT CHORD WEBS	3-4=-56/50, 4-5=-35	- =0/35, 2-3=-116/0, 5/37	=0/0,									
NOTES 1) Wind: ASI Vasd=91r Ke=1.00; exterior zc and right exposed; reactions DOL=1.6(2) This truss chord live 3) Bearings crushing of	CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Exterior(2 exposed ; end vertical C-C for members and f shown; Lumber DOL=	EDL=6.0psf; h=35ft; bd; MWFRS (envelop E) zone; cantilever I left and right orcres & MWFRS for 1.60 plate grip r a 10.0 psf bottom ith any other live load oint 10 SP No.2	eft							*	PE-2001	er Service 018807



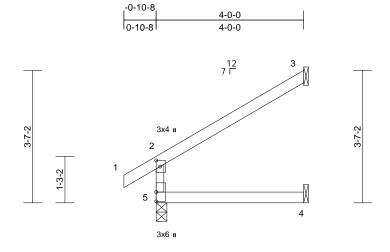
Chesterfield MO 63017 314.434.1200 / MiTek-US.com

November 21,2023

Job	Truss	Truss Type	Qty	Ply Roof - HR Lot 169		
P230875-01	J09	Jack-Open	15	1	Job Reference (optional)	l62145512

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Tue Nov 21 09:45:50 ID:oohaPcW4NxWK5Slc6B9YCczviNr-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



4-0-0	

Scale = 1:31.2 Plate Offsets (X, Y): [2:0-2-0.0-1-4]

Plate Offsets (X, Y):	[2:0-2-0,0-1-4]										-	
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC BC WB Matrix-R	0.33 0.23 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.02 -0.02 -0.04	(loc) 4-5 4-5 3	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 15 lb	GRIP 197/144 FT = 20%
LUMBER TOP CHORD 2x4 BOT CHORD 2x4 WEBS 2x3 BRACING TOP CHORD Stru 4-0 BOT CHORD Rigi brac REACTIONS (size) Max I Max 0 FORCES (lb)	SP No.2 SP No.2 SPF No.2 Jectural wood she -0 oc purlins, ex id ceiling directly cing.) 3= Mecha 5=0-3-8 Horiz 5=104 (LC Uplift 3=-93 (LC Grav 3=132 (LC (LC 1)	athing directly applie cept end verticals. applied or 10-0-0 or anical, 4= Mechanica	6) This truss is Internationa R802.10.2 LOAD CASE(S ed or	s designed in acco al Residential Cod and referenced sta	e sections	R502.11.1 a	Ind				wegnit. To ib	11 - 2076
 BOT CHORD 4-5= NOTES 1) Wind: ASCE 7-1 Vasd=91mph; T Ke=1.00; Cat. II; exterior zone an and right expose exposed; C-C for reactions shown DOL=1.60 2) This truss has b chord live load n 3) Bearings are as: capacity of 565 j 4) Refer to girder(s 5) Provide mechan 	16; Vult=115mph CDL=6.0psf; BC ; Exp C; Enclose ad C-C Exterior(2 ed; end vertical i r members and f r; Lumber DOL=' een designed foi onconcurrent wi sumed to be: , Jo psi. s) for truss to tru iccal connection (ipable of withstar	(3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop E) zone; cantilever I left and right orces & MWFRS for 1.60 plate grip r a 10.0 psf bottom th any other live load oint 5 SP No.2 crush	eft ds. ing o						L	*	PE-2001 November	L ENGINE



Job	Truss	Truss Type		Ply	Roof - HR Lot 169				
P230875-01	J10	Jack-Open	1	1	Job Reference (optional)	162145513			

2-2-12

2-2-12

-0-10-8

0-10-8

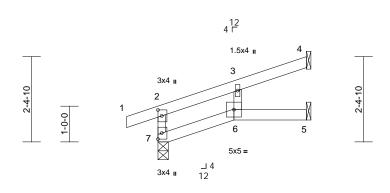
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

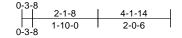
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4-1-14

1-11-2

Page: 1





Scale = 1:32.2

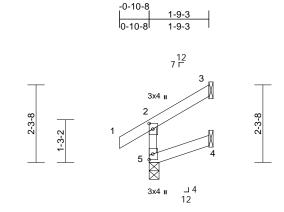
Plate Offsets (X, Y): [2:0-2-0.0-1-4]

Plate Offsets ((X, Y): [2:0-2-0,0-1-4]											
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI201	CSI TC BC WB 4 Matrix-P	0.23 0.22 0.03		in 0.03 -0.03 -0.03	(loc) 6-7 6 4	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 15 lb	GRIP 197/144 FT = 20%
FORCES TOP CHORD BOT CHORD WEBS NOTES 1) Wind: ASG Vasd=91n Ke=1.00; 0 exterior zc and right 6 exposed;C reactions 3 DOL=1.60 2) This truss chord live 3) Bearings a capacity o	2x4 SP No.2 2x3 SPF No.2 Structural wood she 4-1-14 oc purlins, e Rigid ceiling directly bracing. (size) 4= Mecha 7=0-3-8 Max Horiz 7=65 (LC Max Uplift 4=-49 (LC 7=-67 (LC Max Grav 4=107 (LC (LC 1) (lb) - Maximum Com Tension 2-7=-191/184, 1-2=0 3-4=-50/30 6-7=-25/27, 5-6=0/0 3-6=-50/114 CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Exterior(2 exposed ; end vertical I C-C for members and fs shown; Lumber DOL= ⁻¹) has been designed for load nonconcurrent wi are assumed to be: , Jo	xcept end verticals. applied or 6-0-0 oc unical, 5= Mechanica 9) 212), 5=-10 (LC 12), 2 3) C 1), 5=65 (LC 1), 7= pression/Maximum 0/22, 2-3=-107/32, (3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop E) zone; cantilever lieft and right orces & MWFRS for 1.60 plate grip r a 10.0 psf bottom th any other live load pint 7 SP No.2 crush	ee) eft	g at joint(s) 7 consider ANSI/TPI 1 angle to gr er should verify capace e mechanical connect g plate capable of with o uplift at joint 4 and 11 uss is designed in acc titional Residential Coc (0.2 and referenced st SE(S) Standard	ain formula ity of beari ion (by oth standing 6 0 lb uplift a ordance w de sections	a. Building ing surface. ers) of truss to 7 lb uplift at joint 1 joint 5. ith the 2018 5 R502.11.1 and				R	NUM PE-2001	ER DI8807
											Novembe	21,2023



Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 169	
P230875-01	J11	Jack-Open	1	1	Job Reference (optional)	162145514

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Scale = 1:34.1

Plate Offsets (X, Y): [2:0-2-0,0-1-4]

					-						-	
Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	тс	0.17	Vert(LL)	0.00	4-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	0.00	4-5	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R	-						Weight: 8 lb	FT = 20%
	2x4 SP No.2 2x4 SP No.2 2x3 SPF No.2 Structural wood she 1-9-3 oc purlins, ex Rigid ceiling directly bracing. (size) 3= Mecha 5=0-3-8 Max Horiz 5=59 (LC Max Uplift 3=-45 (LC (LC 12) Max Grav 3=50 (LC	cept end verticals. v applied or 6-0-0 oc anical, 4= Mechanica 9) C 12), 4=-8 (LC 12),	bearing pl 5, 45 lb up 7) This truss Internation R802.10.2 LOAD CASE(echanical connecti ate capable of with Jiff at joint 3 and 8 is designed in acc nal Residential Coc 2 and referenced st S) Standard	standing 4 Ib uplift at ordance w le sections	b uplift at joi joint 4. ith the 2018 5 R502.11.1 a	int					
	(LC 1)		=103									
FORCES TOP CHORD BOT CHORD	(Ib) - Maximum Con Tension 2-5=-145/95, 1-2=0/ 4-5=-15/9											
NOTES												
 Vasd=91m Ke=1.00; (exterior 20, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0	has been designed fo load nonconcurrent w are assumed to be: , J	SDL=6.0psf; h=35ft; d; MWFRS (envelop 2E) zone; cantilever left and right forces & MWFRS for 1.60 plate grip r a 10.0 psf bottom ith any other live loa oint 5 SP No.2 crush uss connections. arallel to grain value formula. Building	left ds. ning							B	sev	MIR MIR 1018807

November 21,2023



Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 169	
P230875-01	J12	Jack-Open	1	1	Job Reference (optional)	162145515

3x4 II

2

2-10-15

2-10-15

12 7 Г

3

-0-10-8

0-10-8

2-11-8

and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Scale = 1:32.7

Loading

TCDL

BCLL

BCDL

WEBS

BRACING

LUMBER

TOP CHORD

BOT CHORD

TOP CHORD

BOT CHORD

FORCES

NOTES

2)

3)

4)

5)

TOP CHORD

BOT CHORD

DOL=1.60

TCLL (roof)

Run: 8.63 S. Nov. 1.2023 Print: 8.630 S.Nov. 1.2023 MiTek Industries. Inc. Tue Nov.21.09:45:51 ID:RZMGo4EHZAIRS43NpZmNJzzviOB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

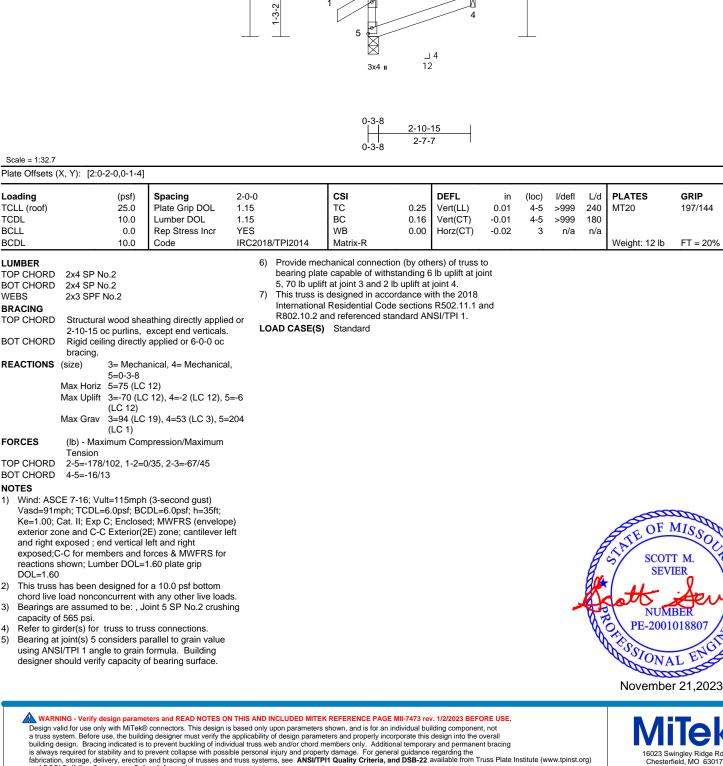
2-11-8

Page: 1

GRIP

197/144

FT = 20%





E

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 169	
P230875-01	J13	Jack-Open	9	1	Job Reference (optional)	162145516

2-9-9

-0-10-8

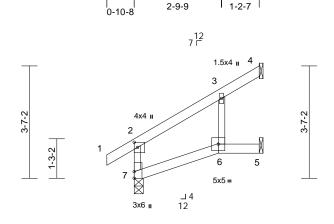
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

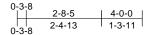
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4-0-0

Page: 1







Scale = 1:36.9

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

Plate Olisets ((X, Y): [2:0-2-0,0-1-4],	[7:0-2-8,Edge]										
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC BC WB Matrix-P	0.29 0.19 0.02	· · ·	0.03	6-7 >	>999 >999	L/d 240 180 n/a	PLATES MT20 Weight: 17 lb	GRIP 197/144 FT = 20%
	2x4 SP No.2 2x3 SPF No.2 Structural wood she 4-0-0 oc purlins, ex Rigid ceiling directly bracing. (size) 4= Mecha 7=0-3-8 Max Horiz 7=103 (LC Max Uplift 4=-55 (LC	cept end verticals. applied or 6-0-0 oc nical, 5= Mechanica C 12)	ed or 7, 55 lb u (1) This truss (2) Content of the sering p (3) This truss (4) This truss (5) This truss	t joint(s) 7 consider SI/TPI 1 angle to gra- should verify capaci echanical connecti ate capable of with Jiff at joint 4 and 37 is designed in acco al Residential Cod 2 and referenced sta S) Standard	ain formula ity of beari on (by oth standing 8 7 lb uplift a ordance w le sections	a. Building ng surface. ers) of truss to b uplift at join t joint 5. ith the 2018 R502.11.1 and						
	(LC 12) Max Grav 4=100 (LC 7=250 (LC											
FORCES TOP CHORD BOT CHORD WEBS NOTES	3-4=-49/47											
 Wind: ASC Vasd=91n Ke=1.00; i exterior zc and right e exposed; reactions : DOL=1.60 This truss chord live Bearings a capacity o 	has been designed for load nonconcurrent wi are assumed to be: , Jo	DL=6.0psf; h=35ft; d; MWFRS (envelop E) zone; cantilever I eft and right orcces & MWFRS for I.60 plate grip r a 10.0 psf bottom th any other live load oint 7 SP No.2 crush	left ds.						3	* Br	PE-2001	

November 21,2023



Job	Truss Truss Type		Qty	Ply	Roof - HR Lot 169	
P230875-01	J14	Jack-Open	1	1	Job Reference (optional)	l62145517

2-9-9

2-9-9

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

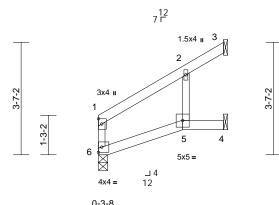
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4-0-0

1-2-7

Page: 1





Scale = 1:36.8

oading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
CLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.26	Vert(LL)	0.03	5-6	>999	240	MT20	197/144
CDL	10.0	Lumber DOL	1.15		BC	0.21	Vert(CT)	-0.03	5-6	>999	180		
CLL	0.0	Rep Stress Incr	YES		WB	0.02	Horz(CT)	-0.04	3	n/a	n/a		
CDL	10.0	Code	IRC201	8/TPI2014	Matrix-P							Weight: 15 lb	FT = 20%
IMBER OP CHORD	0v4 CD No 2		6)		chanical connec e capable of wit								
T CHORD	2x4 SP No.2 2x4 SP No.2				uplift at joint 4.	nstanuing b	S in uplin at	joint					
EBS	2x3 SPF No.2		7)		designed in ac	cordance wi	th the 2018						
	2/0 011 100.2		.,		Residential Co			and					
OP CHORD	Structural wood she	athing directly appli	ed or	R802.10.2 a	nd referenced s	standard AN	ISI/TPI 1.						
	4-0-0 oc purlins, ex		LC	DAD CASE(S)	Standard								
OT CHORD	Rigid ceiling directly bracing.	applied or 6-0-0 oc											
ACTIONS	(size) 3= Mecha 6=0-3-8	anical, 4= Mechanica	al,										
	Max Horiz 6=82 (LC	12)											
	Max Uplift 3=-53 (LC	2 12), 4=-38 (LC 12)											
	Max Grav 3=102 (L0 6=173 (L0		,										
RCES	(lb) - Maximum Com Tension	pression/Maximum											
P CHORD	1-6=-117/8, 1-2=-11	2/58, 2-3=-47/48											
OT CHORD	5-6=-19/11, 4-5=0/0												
EBS	2-5=-61/92												
DTES													
Wind: ASC	CE 7-16: Vult=115mph	(3-second gust)											

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 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
- 2) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads. 3) Bearings are assumed to be: , Joint 6 SP No.2 crushing capacity of 565 psi.
- 4)
- Refer to girder(s) for truss to truss connections. Bearing at joint(s) 6 considers parallel to grain value 5)
- using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

OF MISSO TE SCOTT M. SEVIER PE-2001018807 C SSIONAL E

November 21,2023

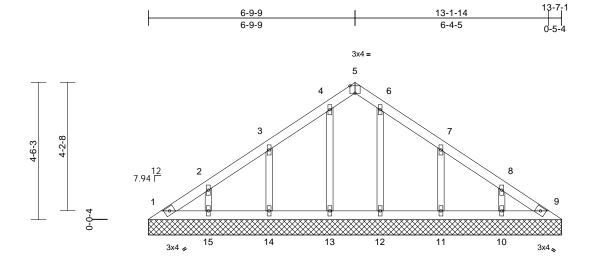


 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not besign value to dury with with where outputs into design is based only door parameters shown, and is for an individual building design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members and property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TPH1 Quality Criteria**, and **DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)

Job	Truss	Truss Type		Ply	Roof - HR Lot 169	
P230875-01	LGD1	Lay-In Gable	1	1	Job Reference (optional)	162145518

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Page: 1



13-7-1

Scale =	1:37.9	

Plate Offsets (X, Y): [5:0-2-0,Edge]

									-				
Loading	(psf)	Spacing 2	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		тс	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL 1	1.15		BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES		WB	0.04	Horiz(TL)	0.00	9	n/a	n/a		
BCDL	10.0			3/TPI2014	Matrix-S		- ()					Weight: 53 lb	FT = 20%
LUMBER			2)		7-16; Vult=115mpl								
TOP CHORD	2x4 SP No.2				n; TCDL=6.0psf; BC								
BOT CHORD					t. II; Exp C; Enclose								
OTHERS	2x3 SPF No.2				and C-C Exterior(2	,	,						
BRACING					5-13 to 6-9-15, Ext								
TOP CHORD	Structural wood she	athing directly applied o	or		rior (1) 11-7-13 to 1			er					
	6-0-0 oc purlins.				exposed ; end vert								
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 oc			for members and								
	bracing.				own; Lumber DOL=	1.60 pl	ate grip						
REACTIONS	(size) 1=13-7-1,	9=13-7-1, 10=13-7-1,	•	DOL=1.60									
	11=13-7-2	1, 12=13-7-1, 13=13-7-	1, ³⁾		ned for wind loads i								
	14=13-7-1	1, 15=13-7-1			ds exposed to wind	•							
	Max Horiz 1=117 (LC	C 11)			Industry Gable Er								
	Max Uplift 1=-12 (LC	28), 10=-73 (LC 13),	4)		alified building des								
	11=-90 (L	C 13), 12=-12 (LC 13),	4) 5)		1.5x4 MT20 unles es continuous botto			1.					
	13=-24 (L	C 12), 14=-88 (LC 12),	- /		spaced at 2-0-0 oc.		d bearing.						
	15=-73 (L	C 12)	6) 7)										
	Max Grav 1=82 (LC	21), 9=74 (LC 22),	()		s been designed fo			da					
	10=182 (L	_C 20), 11=199 (LC 20)	^{),} 8)		ad nonconcurrent w			as.					
	12=148 (L	_C 1), 13=159 (LC 19),	0)	capacity of 5	are assumed to be	SF NU.	2 crushing						
	14=197 (L	_C 19), 15=183 (LC 19)	9)		hanical connection	(by oth	ore) of truce t	•					
FORCES	(lb) - Maximum Com	pression/Maximum	9)		capable of withsta								
	Tension				at joint 15, 88 lb u			JIII					
TOP CHORD	1-2=-138/86, 2-3=-8	9/64, 3-4=-77/56,			13, 73 lb uplift at jo			oint				San	me
	4-5=-55/66, 5-6=-55	/66, 6-7=-61/43,			uplift at joint 12.	int 10, s	so is upint at j	onn				B OF I	MISSIN
	7-8=-76/39, 8-9=-12	0/66	10		designed in accord	anco w	ith the 2019				- 1	BIE	-050.0
BOT CHORD	1-15=-57/114, 14-15	5=-57/114, 13-14=-57/1	14, 10		Residential Code s			nd			6	TATE OF I	No. V
	12-13=-57/114, 11-1	2=-57/114,			nd referenced stand			nu			R	SCOT	TM.
	10-11=-57/114, 9-10)=-57/114	10							_	0	SEV	IER \`Y
WEBS	,	-156/122, 4-13=-124/4	6, LC	DAD CASE(S)	Siandard					<u>୍</u>	4		+
	8-10=-140/93, 7-11=	-158/123, 6-12=-112/3	4							6	N 7		
NOTES		,										HCatt	Aeren
	ed roof live loads have	been considered for									03	NUM	BER AN
this design											N	O PE-2001	018807
and debigi											N	The second	12A



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November 21,2023

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 169	
P230875-01	LGE1	Lay-In Gable	1	1	Job Reference (optional)	162145519

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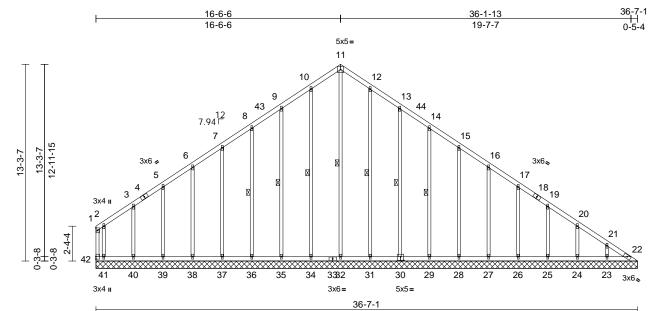
Page: 1



Contraction

November 21,2023

16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com



Scale =	1:77.8
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Plate Offsets (X, Y): [30:0-2-8,0-3-0]

	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,											-	
Loading TCLL (roof) TCDL BCLL BCDL	(psf 25. 10. 0. 10.0	 Plate Grip Lumber D Rep Stres 	DOL 1 OL 1 is Incr 1	2-0-0 1.15 1.15 YES RC2018/TPI2014	CSI TC BC WB Matrix-	0.12 0.67	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.02	(loc) - - 22	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 220 lb	GRIP 197/144 FT = 20%
BCDL	10.	Code		RC2018/1P12014	watrix	-5						weight: 220 lb	FI = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SP No.2 2x3 SPF No.2 2x3 SPF No.2 Structural wood 6-0-0 cc purlins, Rigid ceiling dire bracing. 1 Row at midpt	except end ve ctly applied or	rticals. 10-0-0 oc 34, 9-35, 8-3 30, 14-29	36, FORCES	(Ib) - Ma. Tension 1-42=-10	22=232 (LC 10) 24=189 (LC 20) 26=189 (LC 20) 28=189 (LC 20) 30=185 (LC 20) 32=464 (LC 12) 35=193 (LC 19) 37=189 (LC 19) 39=187 (LC 19) 41=254 (LC 19) ximum Compressi 18/58, 1-2=-99/69,	25=189 (LC , 27=189 (LC , 29=189 (LC , 31=207 (LC , 34=188 (LC , 36=188 (LC , 38=189 (LC , 40=198 (LC , 42=184 (LC on/Maximum 2-3=-68/69,	20), 20), 20), 20), 25), 19), 19), 19), 12)	2) Wii Va Ke ext Inte 21- and exp rea	balanced design. nd: ASCI sd=91mp =1.00; C erior zon erior (1) § 6-6, Inte d right ex posed;C- ctions sh bL=1.60	E 7-16; bh; TCl at. II; E le and 5-1-4 to rior (1) c posed C for n nown; I	Vult=115mph (3 DL=6.0psf; BCDL sxp C; Enclosed; C-C Exterior(2E) b 16-6-6, Exterior 21-6-6 to 36-1-1 ; end vertical left nembers and forc _umber DOL=1.6	.=6.0psf; h=35ft; MWFRS (envelope) 0-1-4 to 5-1-4, (2R) 16-6-6 to 0 zone; cantilever left and right ses & MWFRS for 0 plate grip
	25=36 28=36 31=36 35=36 38=36	5-7-1, 26=36-7- 5-7-1, 29=36-7- 5-7-1, 32=36-7- 5-7-1, 36=36-7- 5-7-1, 39=36-7- 5-7-1, 42=36-7- 93 (LC 8)	1, 27=36-7- 1, 30=36-7- 1, 34=36-7- 1, 37=36-7- 1, 40=36-7- 1	1, 1, 1, 1, 1,	7-8=-222 10-11=-3 12-13=-3 14-15=-2 16-17=-3 19-20=-3 21-22=-4		14, 9-10=-302 24/484, 65/418, 04/341, 43/349, 82/362,	,	onl see or (4) All 5) Ga 6) Ga 7) Thi	y. For st Standa consult q plates ar ble requi ble studs s truss h	tuds ex rd Indu ualified re 1.5x ires col s space as bee	sposed to wind (n istry Gable End E d building designe 4 MT20 unless of ntinuous bottom o ed at 2-0-0 oc. en designed for a	10.0 psf bottom
	24=-7 26=-7 28=-7 30=-8 32=-1 35=-9 37=-7 39=-7	8 (LC 13), 25=- 7 (LC 13), 27=- 7 (LC 13), 29=- 9 (LC 13), 31=- 24 (LC 10), 34=- 4 (LC 12), 36=- 8 (LC 12), 38=- 6 (LC 12), 40=-	77 (LC 13), 78 (LC 13), 77 (LC 13), 54 (LC 13), 54 (LC 13), 41 (LC 12) 75 (LC 12), 78 (LC 12), 86 (LC 12),	Ι,	39-40=-3 37-38=-3 35-36=-3 32-34=-3 29-31=-3 27-28=-3 25-26=-3	119/351, 40-41=-3 119/351, 38-39=-3 119/351, 36-37=-3 119/351, 34-35=-3 119/351, 31-32=-3 120/351, 28-29=-3 120/351, 26-27=-3 120/351, 22-25=-3 120/351, 22-23=-3	19/351, 19/351, 19/351, 19/351, 20/351, 20/351, 20/351, 20/351,		cho	ord live lo		STATE OF M	
	41=-2	01 (LC 12), 42=	108 (LC 1(^{J)} WEBS	11-32=-4 9-35=-15 7-37=-14 5-39=-14 2-41=-14 13-30=-1 15-28=-1 17-26=-1	141/241, 10-34=-1 i3/118, 8-36=-148 19/102, 6-38=-149 17/99, 3-40=-159/- 14/140, 12-31=-16 45/113, 14-29=-1 49/102, 16-27=-1 49/102, 16-25=-1 50/102, 21-23=-1	48/65, /99, /102, I13, 6/78, 50/100, 49/101, 49/101,			•	No.	PE-20010	018807

20-24=-150/102, 21-23=-145/98



Job	Truss Truss Type Qty		Qty	Ply	Roof - HR Lot 169	
P230875-01	LGE1	Lay-In Gable	1	1	Job Reference (optional)	l62145519

- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 168 lb uplift at joint 42, 124 lb uplift at joint 32, 41 lb uplift at joint 34, 94 lb uplift at joint 35, 75 lb uplift at joint 36, 78 lb uplift at joint 37, 78 lb uplift at joint 38, 76 lb uplift at joint 39, 86 lb uplift at joint 40, 201 lb uplift at joint 41, 54 lb uplift at joint 31, 89 lb uplift at joint 30, 77 lb uplift at joint 29, 77 lb uplift at joint 28, 78 lb uplift at joint 27, 77 lb uplift at joint 26, 77 lb uplift at joint 25, 78 lb uplift at joint 24, 77 lb uplift at joint 23 and 181 lb uplift at joint 22.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

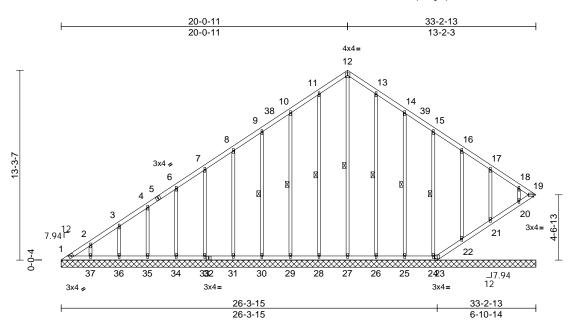
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Job	Truss	Truss Type	Qty Ply		Roof - HR Lot 169			
P230875-01	LGH1	Lay-In Gable	1	1	Job Reference (optional)	162145520		

Run: 8,63 S Nov 1 2023 Print: 8,630 S Nov 1 2023 MiTek Industries, Inc. Tue Nov 21 09:45:53 ID:nMxkIIf6PwE1ExYCeYwfVLzviQE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:80.7

Plate Offsets (X, Y): [19:0-4-1,Edge], [23:0-2-0,0-1-5]

Loading		(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)		25.0	Plate Grip DOL	1.15		TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL		10.0	Lumber DOL	1.15		BC	0.04	Vert(TL)	n/a	-	n/a	999		
BCLL		0.0	Rep Stress Incr	YES		WB	0.27	Horiz(TL)	0.01	19	n/a	n/a		
BCDL		10.0	Code	IRC201	18/TPI2014	Matrix-S		-					Weight: 198 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD WEBS	6-0-0 oc	o.2 No.2 I wood she ourlins. ing directly	eathing directly applie v applied or 10-0-0 oc 12-27, 11-28, 10-29 9-30, 13-26, 14-25,	, _	ORCES	(lb) - Maxin	1=235 (LC 12), 20=160 (LC 20), 22=187 (LC 20), 24=185 (LC 20), 26=192 (LC 20), 28=196 (LC 19), 30=189 (LC 19), 33=189 (LC 19), 33=189 (LC 19), 37=189 (LC 19), num Compressi	21=194 (LC 23=66 (LC 1 25=191 (LC 27=202 (LC 29=189 (LC 31=189 (LC 34=189 (LC 36=189 (LC	20), 1), 20), 13), 19), 19), 19), 19),	Vas Ke= extr 25- anc exp rea DO 3) Tru	sd=91mp erior zor erior zor erior (1) { 1-1, Inte d right ex posed;C- ctions sh L=1.60 uss desig	bh; TCl at. II; E ae and 5-5-13 rior (1) cposed C for n nown; I gned fo	C-C Exterior(2E) to 20-1-1, Exterio 25-1-1 to 33-0-1 ; end vertical left nembers and forc _umber DOL=1.60 or wind loads in th	=6.0psf; h=35ft; MWFRS (envelope) 0-5-13 to 5-5-13, rr(2R) 20-1-1 to zone; cantilever lef and right es & MWFRS for 0 plate grip te plane of the truss
	Max Horiz	20=33-2- 22=33-2- 24=33-2- 26=33-2- 28=33-2- 30=33-2- 33=33-2- 35=33-2- 37=33-2- 1=354 (Lt	C 12)	В	OP CHORD	4-6=-245/1 8-9=-137/1 10-11=-128 12-13=-16 ⁻ 14-15=-88/ 17-18=-14 ⁻ 1-37=-95/1 35-36=-95/ 33-34=-95/	53, 2-3=-384/22 79, 6-7=-181/15 20, 9-10=-122/1 3/197, 11-12=-1: 1/215, 13-14=-1: 119, 15-16=-97, 1/102, 18-19=-1: 67, 36-37=-95/1 167, 34-35=-95, 167, 29-30=-95,	4, 7-8=-151/ 55, 61/227, 28/166, /80, 16-17=-1 94/119 67, /167, /167,	129, 11/75,	see or c 4) All 5) Gal 6) Gal 7) Thi chc 8) All	e Standa consult q plates ai ble requi ble studs s truss h ord live lo	rd Indu ualified re 1.5x res col s space as bee bad noi s are as	stry Gable End D d building designe 4 MT20 unless of ntinuous bottom c ed at 2-0-0 oc. en designed for a nconcurrent with assumed to be SP	10.0 psf bottom any other live loads
Max Uplift 1=-101 (LC 10), 19=-114 (LC 11), 20=-66 (LC 13), 21=-79 (LC 13), 22=-75 (LC 13), 23=-107 (LC 13), 24=-82 (LC 13), 25=-85 (LC 13), 26=-63 (LC 13), 28=-66 (LC 12), 29=-84 (LC 12), 30=-77 (LC 12), 31=-78 (LC 12), 33=-77 (LC 12), 34=-77 (LC 12), 35=-77 (LC 12), 36=-78 (LC 12), 37=-78 (LC 12)				3), 13), 3), 2), 2), 2), 2), 2), 2), 2)	VEBS	28-29=-95/ 26-27=-95/ 24-25=-95/ 22-23=-122 20-21=-122 12-27=-178 8-31=-149/ 6-34=-149/ 3-36=-150/ 13-26=-152 15-24=-148	167, 22-28=-95, 167, 22-28=-95, 167, 22-26=-95, 167, 23-24=-95, 2/208, 21-22=-1: 5/206, 19-20=-1: 5/206, 19-20=-1: 5/2071, 11-28=-15, 0/108, 9-30=-149, 102, 4-35=-149, 102, 4-35=-149, 103, 2-37=-145, 2/87, 14-25=-15, 3/100, 16-22=-1: 3/104, 18-20=-1:	(167, 167, 167, 24/206, 22/201 5/90, 9/101, 101, 101, 101, 197,)/109, 48/101,		STATE OF MISSO SCOTT M. SEVIER NUMBER PE-2001018807	ER BER D18807			
				N	IOTES								*SSIONA	FNOR
				1) Unbalance		ads have been o	considered fo	r				WANA	

NOTES

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



November 21,2023

Job	Truss Truss Type Qty Ply Roof -		Roof - HR Lot 169			
P230875-01	LGH1	Lay-In Gable	1 1 Job Reference (optional)		Job Reference (optional)	162145520

- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 114 lb uplift at joint 19, 101 lb uplift at joint 1, 107 lb uplift at joint 23, 66 lb uplift at joint 28, 84 lb uplift at joint 29, 77 lb uplift at joint 30, 78 lb uplift at joint 31, 77 lb uplift at joint 33, 77 lb uplift at joint 34, 77 lb uplift at joint 35, 78 lb uplift at joint 36, 78 lb uplift at joint 37, 63 lb uplift at joint 26, 85 lb uplift at joint 25, 82 lb uplift at joint 24, 75 lb uplift at joint 22, 79 lb uplift at joint 21 and 66 lb uplift at joint 20.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 19, 22, 21, 20.
 This truss is designed in accordance with the 2018
- International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Tue Nov 21 09:45:53 ID:nMxkIIf6PwE1ExYCeYwfVLzviQE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 2

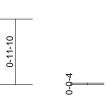


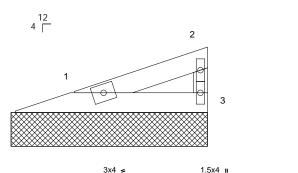
Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 169	
P230875-01	V4	Valley	1	1	Job Reference (optional)	162145521

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Tue Nov 21 09:45:53 ID:jl3UjzhMxYVIUFibmzy7amzviQC-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

1.5x4 u

Page: 1





1.5x4 u



2-10-2	

2-10-2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 8 lb	FT = 20%

8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

LUMBEI	R
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Scale - 1.17 1

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x3 SPF No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or
	2-10-14 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc
	bracing.
REACTIONS	(size) 1-2-10-14 3-2-10-14

1=2-10-14, 3=2-10-14 (SIZE) 101101 Max Horiz 1=30 (LC 9) Max Uplift 1=-16 (LC 8), 3=-21 (LC 12) Max Grav 1=84 (LC 1), 3=84 (LC 1) FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD 1-2=-43/26, 2-3=-65/86 BOT CHORD 1-3=-13/14

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 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
- Truss designed for wind loads in the plane of the truss 2) 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 requires continuous bottom chord bearing. 3)
- Gable studs spaced at 4-0-0 oc. 4)
- This truss has been designed for a 10.0 psf bottom 5) chord live load nonconcurrent with any other live loads. All bearings are assumed to be SP No.2 crushing 6)

capacity of 565 psi. 7) Provide mechanical connection (by others) of truss to

bearing plate capable of withstanding 16 lb uplift at joint 1 and 21 lb uplift at joint 3.

OF MISS SCOTT M. SEVIER NUMBER PE-2001018807 SIONAL E November 21,2023



Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 169	
P230875-01	V5	Valley	1	1	Job Reference (optional)	162145522

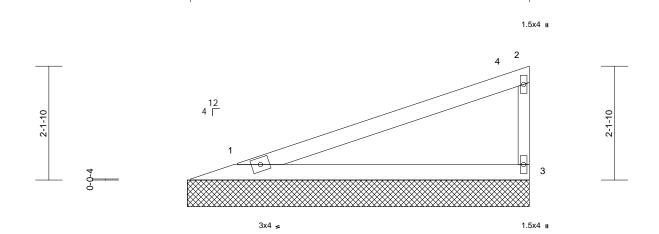
6-4-2

6-4-2

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Tue Nov 21 09:45:53 ID:jl3UjzhMxYVIUFibmzy7amzviQC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale 1.21 6

Scale = 1:21.6			I							1		
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC BC WB Matrix-P	0.67 0.36 0.00	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 19 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS (FORCES TOP CHORD BOT CHORD BOT CHORD BOT CHORD NOTES 1) Wind: ASCI Vasd=91mp	2x4 SP No.2 2x4 SP No.2 2x3 SPF No.2 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing.	athing directly applie cept end verticals. applied or 10-0-0 or 3=6-4-14 9) 2 8), 3=-59 (LC 12) C 1), 3=241 (LC 1) pression/Maximum 88/234 (3-second gust) DL=6.0psf; h=35ft;	8) This truss i Internation R802.10.2 LOAD CASE(S ed or	s designed in acco al Residential Cod and referenced sta	e sections	R502.11.1 a	Ind				Weight: 19 lb	FT = 20%
exterior zon Interior (1) & exposed; e members a Lumber DO 2) Truss desig only. For si see Standa (3) Gable requi 4) Gable studs 5) This truss h chord live Ic 6) All bearings capacity of 7) Provide me bearing plat	e and C-C Exterior(2 5-11-5 to 6-3-10 zone nd vertical left and rig nd forces & MWFRS L=1.60 plate grip DO gned for wind loads in tuds exposed to wind rd Industry Gable En- ualified building desig- res continuous bottor s spaced at 4-0-0 oc. as been designed for add noconcurrent wi- are assumed to be S	E) 0-11-5 to 5-11-5, cantilever left and pht exposed;C-C for for reactions shown L=1.60 the plane of the tru (normal to the face) d Details as applicat gner as per ANSI/TF m chord bearing. r a 10.0 psf bottom th any other live loar SP No.2 crushing (by others) of truss to	right ; ; ss ; , ole, Pl 1. ds.								STATE OF J SCOT SEV PE-2001 PE-2001 Novembe	IER 018807

MiTek 16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 169	
P230875-01	V6	Valley	1	1	Job Reference (optional)	162145523

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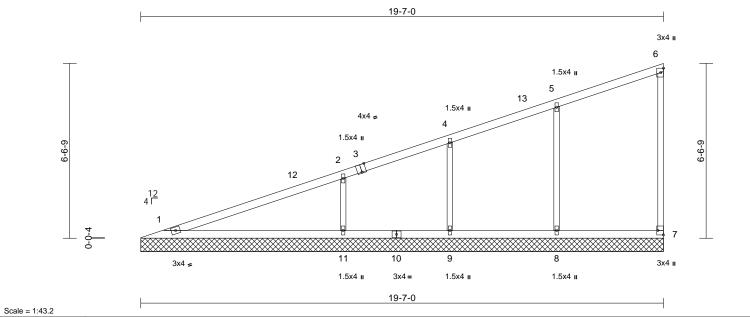


Plate Offsets (X, Y): [3:0-2-0,Edge], [7:Edge,0-2-8]

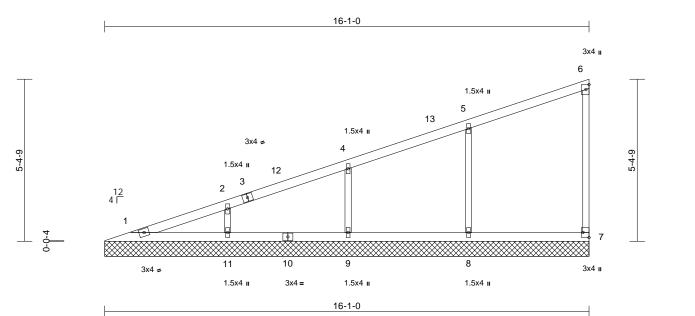
	(;;; ;): [e:e = e;=age]	, [: :==:g=;= = =]										
Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	n/a	(.00)	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.20	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2	014 Matrix-S							Weight: 71 lb	FT = 20%
		1										
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x3 SPF No.2 2x3 SPF No.2 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. (size) 1=19-7-0, 9=19-7-0, Max Horiz 1=296 (LC Max Uplift 7=-33 (LC (LC 12), 7 Max Grav 1=247 (LC	y applied or 10-0-0 od , 7=19-7-0, 8=19-7-0 , 11=19-7-0 C 9) C 9), 8=-114 (LC 8), 9 11=-169 (LC 12)	4) Gab 5) This chor 6) All b cape ad or 7) Prov bear 7, 11 uplif 8) This Inter R80: 9=-68 LOAD C	e requires continuous e studs spaced at 4-0 truss has been design d live load nonconcurne earings are assumed city of 565 psi. ide mechanical conne ing plate capable of w 4 lb uplift at joint 8, 64 at joint 11. truss is designed in a national Residential C 2.10.2 and referenced ASE(S) Standard	0-0 oc. ned for a 10.1 rent with any to be SP No. ection (by oth vithstanding 3 8 lb uplift at ju ccordance w Code sections	0 psf bottom other live loa 2 crushing ers) of truss t 33 lb uplift at j joint 9 and 169 ith the 2018 5 R502.11.1 a	o oint) Ib					
FORCES	1) (Ib) - Maximum Com	pression/Maximum										
	Tension											
TOP CHORD	1-2=-363/219, 2-4=- 5-6=-132/120, 6-7=-		54,									
BOT CHORD	8-9=-125/136, 7-8=-	125/136	/204								Contraction of the	ADD -
WEBS	0-0=-320/200, 4-9=-	203/113, 2-11=-464/	201								AFUT	MISSO
Vasd=91n Ke=1.00; exterior zo Interior (1 exposed ; members Lumber D 2) Truss des only. For see Stand	CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Exterior(2) 5-11-5 to 19-6-8 zone end vertical left and ri and forces & MWFRS OL=1.60 plate grip DC signed for wind loads in studs exposed to wind lard Industry Gable En qualified building desi	EDL=6.0psf; h=35ft; d; MWFRS (envelop E) 0-11-5 to 5-11-5, e; cantilever left and ght exposed;C-C for for reactions shown DL=1.60 n the plane of the trud (normal to the face) d Details as applicat	right ss , ole,						~		NUM PE-2001 November	T M. IER BER 018807



ſ	Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 169	
	P230875-01	V7	Valley	1	1	Job Reference (optional)	162145524

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Page: 1



Scale = 1:38.3

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

											-	
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	n/a		n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(TL)	n/a	-	n/a	999	-	
BCLL	0.0	Rep Stress Incr	YES	WB	0.11	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI201	4 Matrix-S							Weight: 57 lb	FT = 20%
									-		, v	
LUMBER				equires continuous bo		d bearing.						
TOP CHORD				studs spaced at 4-0-0								
BOT CHORD				iss has been designed								
WEBS	2x3 SPF No.2			ve load nonconcurren			5.					
OTHERS	2x3 SPF No.2			rings are assumed to	be SP No	2 crushing						
BRACING			7) Dura dala	y of 565 psi.	/l							
TOP CHORD	 Structural wood she 6-0-0 oc purlins, ex 			e mechanical connecti plate capable of with			nt					
BOT CHORD				b uplift at joint 8, 96 lk joint 11.	o uplift at j	oint 9 and 99 lb)					
REACTIONS	•	, 7=16-1-0, 8=16-1-0		iss is designed in acco tional Residential Cod			Ч					
		, 11=16-1-0		0.2 and referenced st			u					
	Max Horiz 1=240 (L			E(S) Standard								
	Max Uplift 7=-30 (LC		9=-96 LOAD CAC									
		11=-99 (LC 12)										
	Max Grav 1=117 (L 8=394 (L	C 20), 7=142 (LC 1), C 1), 9=352 (LC 1),	,									
	11=363 (LC 1)										
FORCES	(lb) - Maximum Con Tension	npression/Maximum										
TOP CHORD	1-2=-333/182, 2-4=- 5-6=-117/96, 6-7=-1		134,									
BOT CHORD	1-11=-102/112, 9-1 7-8=-102/112	1=-102/112, 8-9=-10	2/112,									alle
WEBS	5-8=-307/263, 4-9=	-275/155, 2-11=-277	/231								OF.	MISCH
NOTES										- 2	TATE OF	-0.0
	CE 7-16; Vult=115mph	(3-second qust)								A	N/	New
	mph; TCDL=6.0psf; BC									H	SCOI	TM. $\bigvee \bigvee$
	Cat. II; Exp C; Enclose		pe)							H	/ SEV	IER \ Y
exterior z	one and C-C Exterior(2	2E) 0-11-5 to 5-11-5	,							8 4		* 1
Interior (1) 5-11-5 to 16-0-8 zon	e; cantilever left and	right							81		0
exposed ;	; end vertical left and ri	ght exposed;C-C for								NA	hell,	and
	and forces & MWFRS		;							47	DE acos	010007 141
	DOL=1.60 plate grip DC									N.	PE-2001	01880/ 84
	signed for wind loads i									Y		1SH
	studs exposed to wind										W SION	FNUA
	dard Industry Gable En										S'SIONA	
or consult	t qualified building desi	gner as per ANSI/TF	-11.								ALCC.	201
											Novembe	- 01 0000

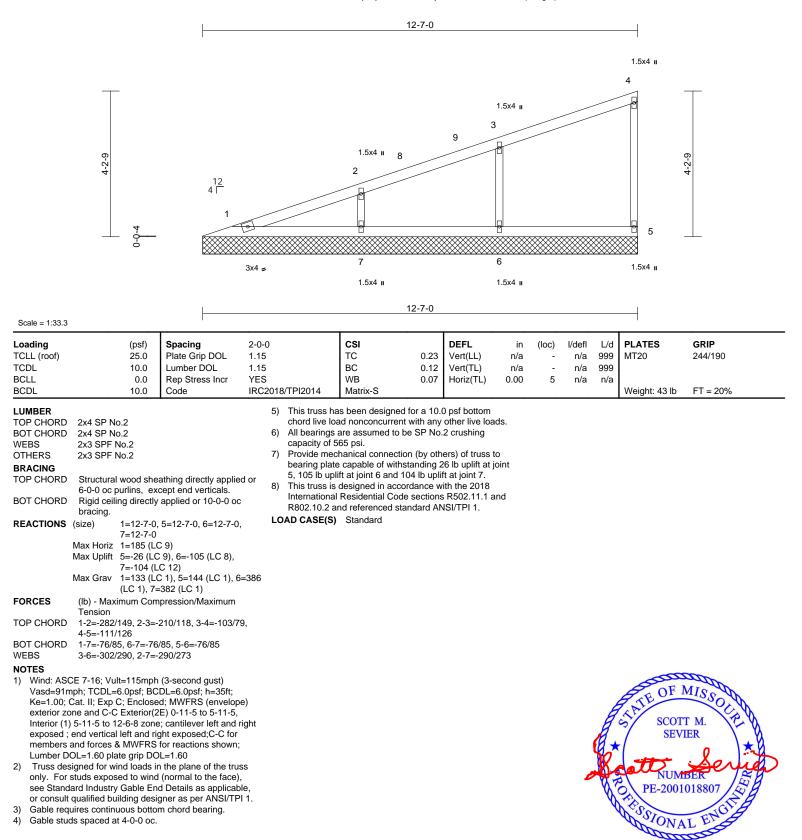
November 21,2023



A WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not
a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing
is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the
fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org)
and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

Job	Truss	Truss Type Qty Ply Roof - HR Lot 169		Roof - HR Lot 169		
P230875-01	V8	Valley	1	1	Job Reference (optional)	162145525

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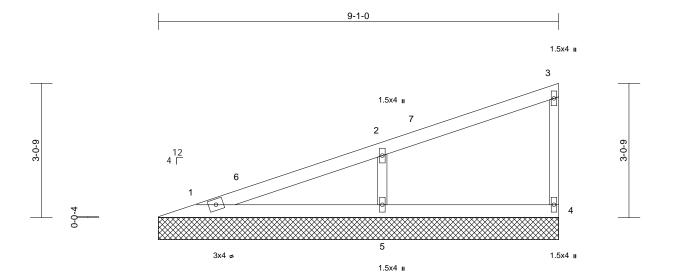
November 21,2023



Job	Truss	Truss Type Qty Ply Roof - HR Lo		Roof - HR Lot 169			
P230875-01	V9	Valley	1	1	Job Reference (optional)	162145526	

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Scal	e – 1	.26.2

Ocale = 1.20.2													
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.29	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15		BC	0.16	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES		WB	0.09	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC20	18/TPI2014	Matrix-S							Weight: 29 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.2 2x3 SPF No.2 2x3 SPF No.2 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly	cept end verticals.		 capacity of 5 Provide med bearing plate 1, 26 lb uplif This truss is International 	chanical connect capable of wite t at joint 4 and designed in act Residential Cond nd referenced	ction (by oth ithstanding 1 122 lb uplift ccordance wi ode sections	ers) of truss 2 lb uplift at j at joint 5. ith the 2018 5 R502.11.1 a	joint					

9-1-0

REACTIONS (size) 1=9-1-0, 4=9-1-0, 5=9-1-0 Max Horiz 1=129 (LC 9) 1=-12 (LC 8), 4=-26 (LC 12), Max Uplift 5=-122 (LC 12) 1=149 (LC 1), 4=132 (LC 1), 5=448 Max Grav (LC 1)

bracing

FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=-214/112, 2-3=-88/59, 3-4=-103/120 BOT CHORD 1-5=-50/57, 4-5=-50/57 WEBS 2-5=-342/357

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-11-5 to 5-11-5, Interior (1) 5-11-5 to 9-0-8 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
- 2) 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. 3) Gable requires continuous bottom chord bearing.

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

5)

This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

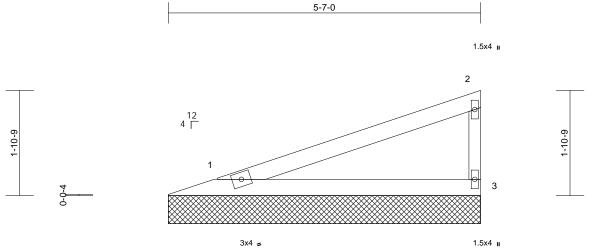


November 21,2023



Job	Truss	Truss Type	pe Qty Ply Roof - HR Lot 169		Roof - HR Lot 169	
P230875-01	V10	Valley	1	1	Job Reference (optional)	162145527

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5-7-0

Scale	_	1.20	6

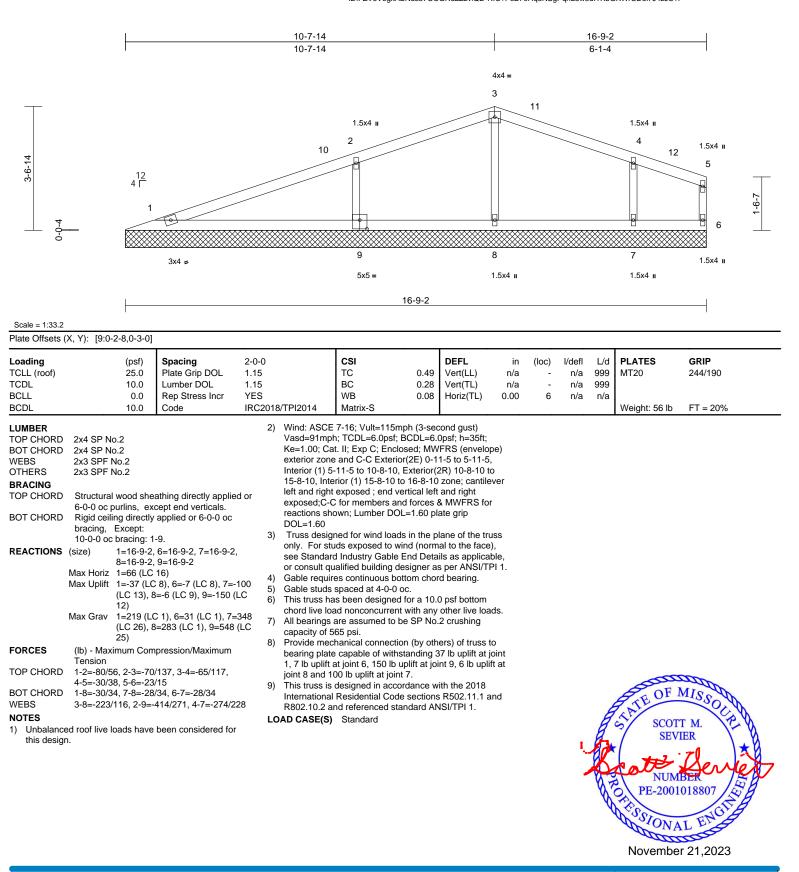
Scale = 1:20.6											
Loading (psf) TCLL (roof) 25.0 TCDL 10.0 BCLL 0.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI TC BC WB	0.48 0.26 0.00	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 244/190
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-P	0.00	110112(112)	0.00	Ũ	n,a	n/a	Weight: 17 lb	FT = 20%
BCLL 0.0	Rep Stress Incr Code athing directly applied xcept end verticals. applied or 10-0-0 oc 3=5-7-0 9) 8), 3=-51 (LC 12) C 1), 3=207 (LC 1) pression/Maximum 61/207 (3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelope E) zone; cantilever le eft and right prces & MWFRS for 1.60 plate grip n the plane of the trus (normal to the face), d Details as applicabl gner as per ANSI/TPI n chord bearing. a 10.0 psf bottom th any other live load SP No.2 crushing by others) of truss to	YES IRC2018/TPI2014 8) This truss is Internationa R802.10.2 a LOAD CASE(S) d or : e) eft ss , le, I 1.	WB Matrix-P designed in accord Residential Code nd referenced stan	0.00 dance w sections	Horiz(TL) ith the 2018 5 R502.11.1 a	0.00	3	n/a	n/a	STATE OF STATE OF SEV SEV PE-2001	MISSOLUTION



Job	т	Truss	Truss Type Qty Ply Roof - HR Lot 169		Roof - HR Lot 169		
P230875-01	V	/11	Valley	1	1	Job Reference (optional)	162145528

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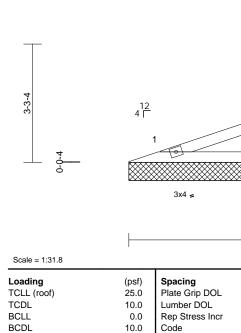
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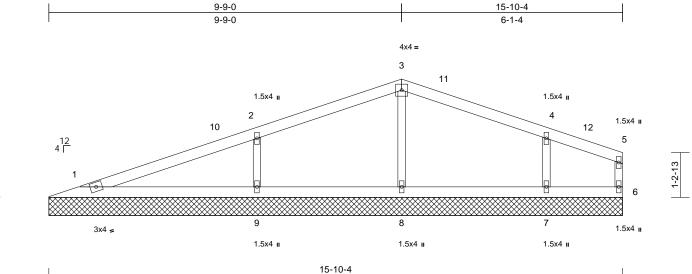


Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 169	
P230875-01	V12	Valley	1	1	Job Reference (optional)	162145529

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DOL=1.60



Scale = 1:31.8	3											
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2	CSI TC BC WB 2014 Matrix-S	0.35 0.18 0.07	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 6	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 52 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORE BOT CHORE WEBS OTHERS BRACING TOP CHORE BOT CHORE REACTIONS	 2x4 SP No.2 2x3 SPF No.2 2x3 SPF No.2 2x3 SPF No.2 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. (size) 1=15-10-4 8=15-10-4 Max Horiz 1=59 (LC Max Uplift 1=-27 (LC (LC 13), 8 12) Max Grav 1=176 (LC 	cept end verticals. applied or 6-0-0 oc 4, 6=15-10-4, 7=15- 4, 9=15-10-4 12) 28), 6=-6 (LC 8), 7= ==5 (LC 9), 9=-137	only see or c 4) Gat 5) Gat cho 7) All cap 10-4, 8) Pro bea 1,6 .102 9) This nte cho 2,343 RAC	ss designed for wind I . For studs exposed t Standard Industry Ga onsult qualified buildin de requires continuous le studs spaced at 4-C truss has been desig rd live load nonconcur bearings are assumed acity of 565 psi. vide mechanical conner ring plate capable of w lb uplift at joint 6, 5 lb 9 and 102 lb uplift at truss is designed in a rnational Residential C 2.10.2 and referenced CASE(S) Standard	o wind (norm ble End Deta g designer a: s bottom choi)-0 oc. ned for a 10. rent with any to be SP No. ection (by oth vithstanding 2 uplift at joint joint 7. eccordance w Code sections	al to the face) ils as applicat is per ANSI/TF d bearing. 0 psf bottom other live load 2 crushing ers) of truss t t? Ib uplift at ju 8, 137 Ib uplift ith the 2018 5 R502.11.1 a), ble, PI 1. ds. ds. o int it at					
FORCES	(lb) - Maximum Com Tension	pression/Maximum										
TOP CHORD												
BOT CHORD												and a
WEBS	3-8=-239/127, 2-9=-	373/264, 4-7=-273/2	233								OF.	MISSO
this design 2) Wind: AS Vasd=91 Ke=1.00; exterior z Interior (14-9-12, left and ri exposed;	CE 7-16; Vult=115mph mph; TCDL=6.0psf; BC . Cat. II; Exp C; Enclose cone and C-C Exterior(2 1) 5-9-12 to 9-9-12, Exter Interior (1) 14-9-12 to 1 ight exposed ; end verti C-C for members and fi s shown; Lumber DOL=	(3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop E) 0-11-5 to 5-9-12, erior(2R) 9-9-12 to 5-9-12 zone; cantile cal left and right orces & MWFRS for	oe) ver						-		STR SCOT SEV	T M. IER SELECTION 018807



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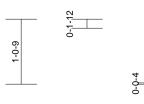
Job	Truss	Truss Type	Type Qty Ply Roof - HR Lot 169			
P230875-01	V13	Valley	1	1	Job Reference (optional)	162145530

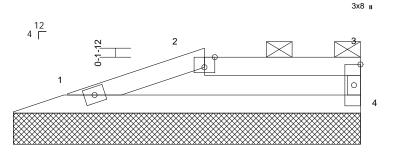
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0-10-13

Page: 1





5-7-0

3x4 =

3x4 =

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

Plate Olisets ((A, f). [2.0-2-0,Euge]											
Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI201	4 Matrix-R	-						Weight: 16 lb	FT = 20%
LUMBER				rings are assumed to	be SP No.	2 crushing						
TOP CHORD	2x4 SP No.2			ty of 565 psi. e mechanical connecti	ion (by oth	oro) of truco t	-					
BOT CHORD WEBS	2x4 SP No.2 2x3 SPF No.2			g plate capable of with								
	2X3 SPF N0.2			46 lb uplift at joint 4.	istantanig -	r ib upint at j	onn					
BRACING TOP CHORD	Structural wood she	athing directly appli	10) This tr	uss is designed in acc	ordance w	ith the 2018						
TOP CHORD	5-7-12 oc purlins, e			tional Residential Coo	de sections	R502.11.1 a	ind					
	2-0-0 oc purlins: 2-3		R802.7	0.2 and referenced st								
BOT CHORD	Rigid ceiling directly			cal purlin representati			size					
	bracing.			orientation of the purli	n along the	e top and/or						
REACTIONS	· · · ·			SE(S) Standard								
	Max Horiz 1=28 (LC	,	LOAD CA	Stanuaru								
	Max Uplift 1=-44 (LC											
	Max Grav 1=207 (LC											
FORCES	(lb) - Maximum Com Tension	pression/Maximum										
TOP CHORD	1-2=-272/243, 2-3=-	234/246. 3-4=-145/	175									
BOT CHORD	1-4=-234/231	,										
NOTES												
1) Unbalance	ed roof live loads have	been considered fo	or									
this desigr	n.											
	CE 7-16; Vult=115mph											
	nph; TCDL=6.0psf; BC		,								0000	alle
	Cat. II; Exp C; Enclose one and C-C Exterior(2										OF I	MISSIM
	exposed ; end vertical l		leit							1	TATE OF I	
	C-C for members and f		r							R	AV SCOT	New Y
	shown; Lumber DOL=									A	S/ SCUI	I IVI.
DOL=1.60)									4	SEV.	
	signed for wind loads ir									00	11	
	studs exposed to wind									<u>y</u>	Patto :	Sement
	lard Industry Gable En								4	5	NUM	BER
	qualified building designed dequate drainage to pr									N	ON PE-2001	018807
	uires continuous botto		y.							V	15	018807
	ds spaced at 4-0-0 oc.	cord boaring.									SSI-	ENO'A
	has been designed for	r a 10.0 psf bottom									PE-2001	LE

6) 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

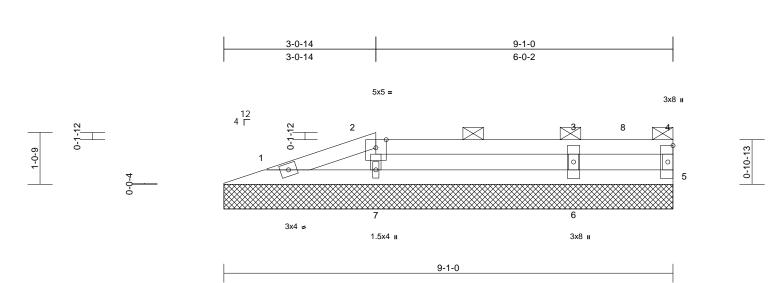


November 21,2023

Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 169	
P230875-01	V14	Valley	1	1	Job Reference (optional)	162145531

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Page: 1



Scale = 1:23.3

Scale = 1:23.3													
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018	3/TPI2014	CSI TC BC WB Matrix-S	0.21 0.09 0.09	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 5	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 27 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x3 SPF No.2 2x3 SPF No.2 Structural wood she 9-1-12 oc purlins; e4 2-0-0 oc purlins: 2-4 Rigid ceiling directly bracing.	except end verticals, , , , applied or 6-0-0 oc 5=9-1-0, 6=9-1-0, 7=	and ⁹⁾	Gable requi Gable studs This truss ha chord live lo All bearings capacity of § Provide med bearing plat 1, 4 lb uplift at joint) This truss is International	chanical connecti e capable of with at joint 5, 60 lb u 6. designed in acco I Residential Coc	ottom chor oc. d for a 10.0 nt with any be SP No. ion (by oth istanding 2 uplift at join ordance w de sections	d bearing.) psf bottom other live loa 2 crushing ers) of truss t 1 lb uplift at j t 7 and 79 lb ith the 2018 R502.11.1 a	ds. co oint					
FORCES	Max Uplift 1=-21 (LC (LC 9), 7= Max Grav 1=67 (LC (LC 26), 7 (lb) - Maximum Com	C 12), 5=-4 (LC 8), 6 =-60 (LC 8) 1), 5=25 (LC 1), 6= 7=299 (LC 1)	342) Graphical pu		on does no	ot depict the s	size					
TOP CHORD	4-5=-18/20	, ,											
BOT CHORD WEBS	1-7=-16/22, 6-7=-16 2-7=-223/278, 3-6=-	,											
this design 2) Wind: ASC Vasd=91n Ke=1.00; exterior zc Corner(3F	ed roof live loads have n. CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Corner(3I 2) 3-1-10 to 8-1-10, Ex e; cantilever left and rig	n (3-second gust) CDL=6.0psf; h=35ft; ed; MWFRS (envelop E) 0-11-5 to 3-1-10, terior(2N) 8-1-10 to										STATE OF SCOT	MISSOLAT T.M. HER

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.

vertical left and right exposed;C-C for members and

forces & MWFRS for reactions shown; Lumber

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permenter is always required for stability and to prevent colleges with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)

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November 21,2023

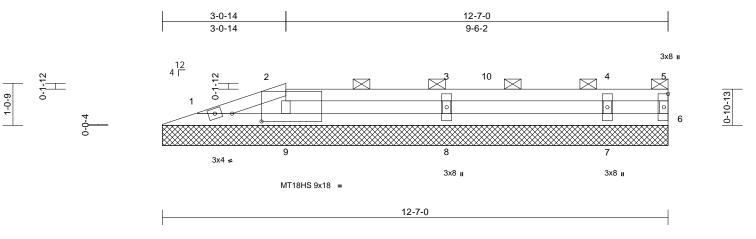
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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 169		
P230875-01	V15	Valley	1	1	Job Reference (optional)	l62145532	

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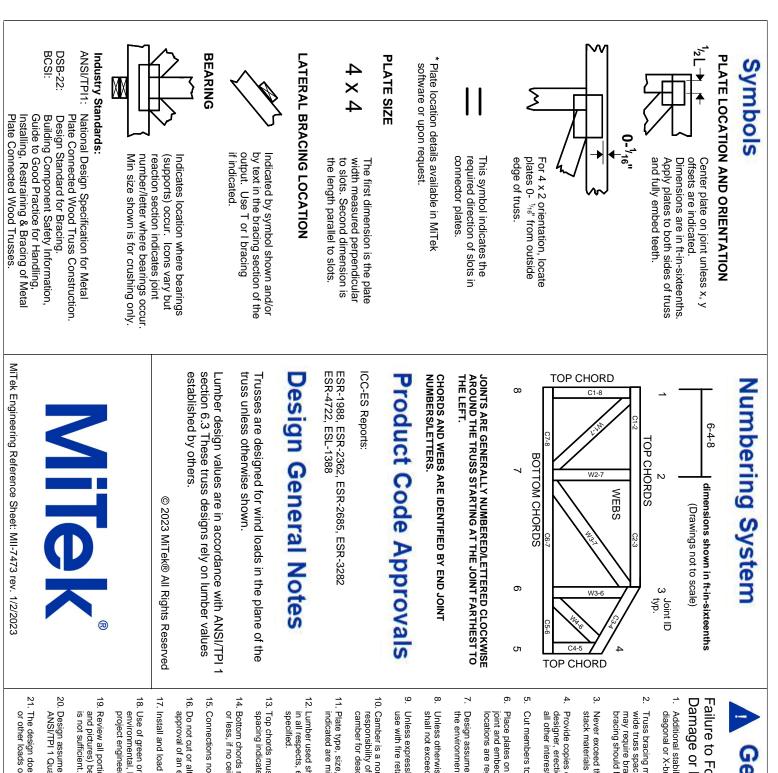


Scale = 1:28.7

Plate Offsets (X, Y): [9:0-8-13,0-2-6]

Plate Offsets	(X, Y): [9:0-8-13,0-2-6												
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/T	PI2014	CSI TC BC WB Matrix-S	0.25 0.12 0.08	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 6	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 MT18HS Weight: 37 lb	GRIP 244/190 197/144 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	 2x4 SP No.2 2x3 SPF No.2 2x3 SPF No.2 2x3 SPF No.2 Structural wood she 10-0-0 oc purlins, e 2-0-0 oc purlins (10- Rigid ceiling directly bracing. (size) 1=12-7-0, 8=12-7-0. Max Horiz 1=28 (LC Max Uplift 1=-21 (LC (LC 8), 8= Max Grav 1=70 (LC (LC 1), 8= 1) 	xcept end verticals, a -0-0 max.): 2-5. applied or 6-0-0 oc , 6=12-7-0, 7=12-7-0 9=12-7-0 9) 2 12), 6=-1 (LC 3), 7= -90 (LC 9), 9=-58 (L 1), 6=1 (LC 26), 7=2 -398 (LC 26), 9=287	o s o o o o o o o o o o o o o	nly. For sti ee Standard r consult qu rovide adee able requir able studs his truss ha hord live loo apacity of 5 rovide mec earing plate , 1 lb uplift : bint 8 and 6 his truss is iternational 2802.10.2 a	ned for wind loads ads exposed to wind d Industry Gable E lalified building des quate drainage to p e MT20 plates unle es continuous bott spaced at 4-0-0 oc is been designed f ad nonconcurrent v are assumed to be 65 psi. hanical connectior e capable of withsta at joint 6, 58 lb upli 2 lb uplift at joint 7. designed in accord Residential Code nd referenced stan	Id (norm nd Deta signer a prevent i siss othel oom chor c. or a 10. with any siss SP No. a (by oth anding 2 iff at join dance w sections adard AN	al to the face) ils as applicats s per ANSI/TP water ponding wise indicated d bearing. 0 psf bottom other live load 2 crushing ers) of truss to 11 buplift at jo t 9, 90 lb upliff ith the 2018 R F502.11.1 at ISI/TPI 1.	, le, l 1. d. ds. Dint t at					
FORCES	 (Ib) - Maximum Com Tension 1-2=-43/32, 2-3=-11 4-5=-10/16, 5-6=-1/3 	/20, 3-4=-10/16,	b	ottom chore	ation of the purlin a d. Standard	along the	e top and/or						
BOT CHORD	,											OF I	MISSO
this desig 2) Wind: AS Vasd=91 Ke=1.00; exterior z Corner(3) 12-6-8 zc vertical le forces & l	ed roof live loads have	(3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop E) 0-11-5 to 3-1-10, terior(2N) 8-1-10 to right exposed ; end C for members and) د	R	November	T M. HER BER 018807





General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- 1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor1 bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- 5. Cut members to bear tightly against each other
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- 11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- 12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- 14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.