

RE: 2532764 Summit/5 Woodside

Site Information:

Customer: Project Name: 2532764 Lot/Block: Address: City:

Model: Subdivision: State:

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

Design Code: IRC2018/TPI2014 Wind Code: N/A Roof Load: 45.0 psf Design Program: MiTek 20/20 8.2 Wind Speed: 115 mph Floor Load: N/A psf

This package includes 99 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	143574781	A1	11/14/2020	21	143574801	D2	11/14/2020
2	143574782	A2	11/14/2020	22	143574802	D3	11/14/2020
3	143574783	A3	11/14/2020	23	143574803	JA1	11/14/2020
4	143574784	A4	11/14/2020	24	143574804	JA2	11/14/2020
5	143574785	A5	11/14/2020	25	143574805	JA3	11/14/2020
6	143574786	A6	11/14/2020	26	143574806	JA4	11/14/2020
7	143574787	A7	11/14/2020	27	143574807	JA5	11/14/2020
8	143574788	A8	11/14/2020	28	143574808	JA6	11/14/2020
9	143574789	A9	11/14/2020	29	I43574809	JA7	11/14/2020
10	143574790	A10	11/14/2020	30	l43574810	JA8	11/14/2020
11	143574791	A11	11/14/2020	31	l43574811	JA9	11/14/2020
12	143574792	A12	11/14/2020	32	l43574812	JA10	11/14/2020
13	143574793	B1	11/14/2020	33	l43574813	JA11	11/14/2020
14	143574794	B2	11/14/2020	34	l43574814	JA12	11/14/2020
15	143574795	B3	11/14/2020	35	l43574815	JA13	11/14/2020
16	143574796	B4	11/14/2020	36	l43574816	JA14	11/14/2020
17	143574797	B5	11/14/2020	37	l43574817	JA15	11/14/2020
18	143574798	C1	11/14/2020	38	l43574818	JA16	11/14/2020
19	143574799	C2	11/14/2020	39	l43574819	JA17	11/14/2020
20	143574800	D1	11/14/2020	40	143574820	JC1	11/14/2020

The truss drawing(s) referenced above have been prepared by

MiTek USA, Inc under my direct supervision

based on the parameters provided by Builders FirstSource (Valley Center).

Truss Design Engineer's Name: Sevier, Scott

My license renewal date for the state of Missouri is December 31, 2021. Missouri COA: 001193

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. Any project specific information included is for MiTek customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek 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.



De Wi RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

11/24/2020

MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017 314-434-1200



RE: 2532764 - Summit/5 Woodside

MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017 314-434-1200

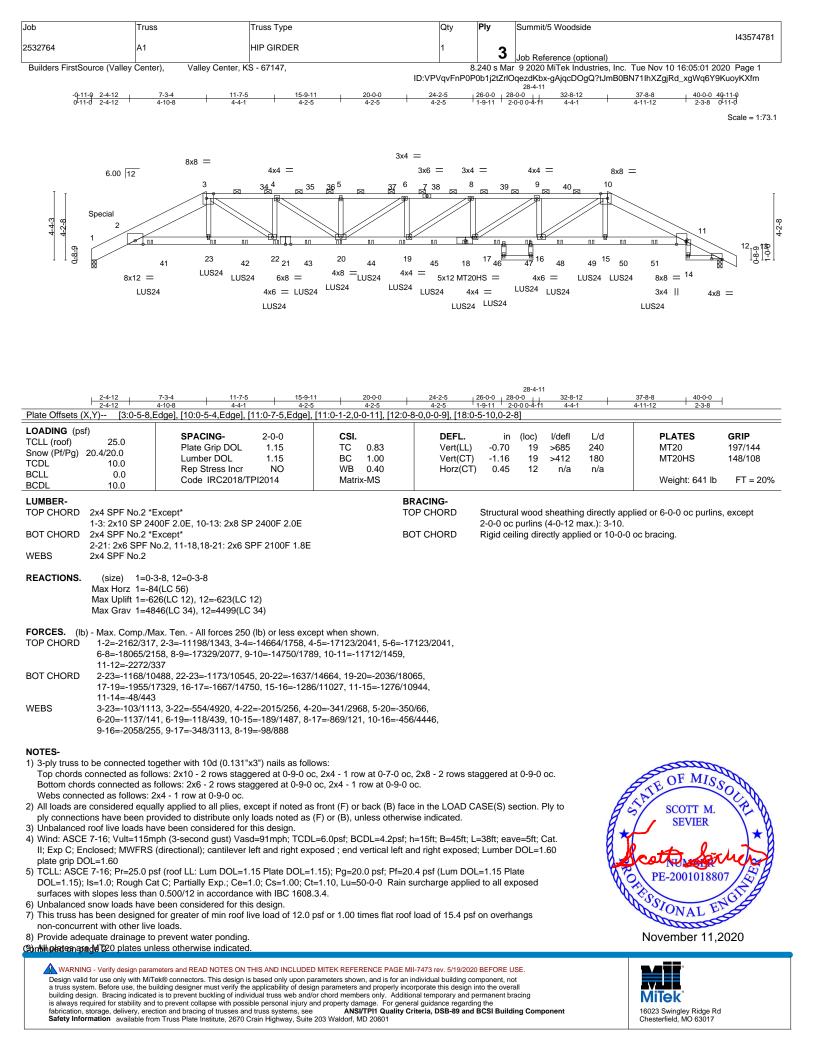
Site Information:

Project Customer:	Project Name:	2532764
Lot/Block:	-	
Address:		
City, County:		

<u> </u>	
Subdivision:	
00000110101011	

State:

Na	Cool#		Dete	Na	Cool#		Dete
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
41	143574821	JC2	11/14/2020	85	143574865	M7	11/14/2020
42	143574822	JC3	11/14/2020	86	143574866	M8	11/14/2020
43	143574823	JC4	11/14/2020	87	143574867	M9	11/14/2020
44	143574824	JC5	11/14/2020	88	143574868	P1	11/14/2020
45	143574825	JD1	11/14/2020	89	143574869	P2	11/14/2020
46	143574826	JD2	11/14/2020	90	143574870	P3	11/14/2020
47	143574827	JD3	11/14/2020	91	143574871	V1	11/14/2020
48	143574828	JM1	11/14/2020	92	143574872	V2	11/14/2020
49	143574829	JM2	11/14/2020	93	143574873	V3	11/14/2020
50	143574830	JM3	11/14/2020	94	143574874	V4	11/14/2020
51	143574831	JM4	11/14/2020	95	143574875	V5	11/14/2020
52	143574832	JM5	11/14/2020	96	143574876	V6	11/14/2020
53	143574833	JM6	11/14/2020	97	143574877	V7	11/14/2020
54	143574834	JM7	11/14/2020	98	143574878	V8	11/14/2020
55	143574835	JM8	11/14/2020	99	143574879	V9	11/14/2020
56	143574836	JM9	11/14/2020				
57	143574837	JM10	11/14/2020				
58	143574838	JM11	11/14/2020				
59	143574839	JM12	11/14/2020				
60	143574840	JM13	11/14/2020				
61	143574841	JM14	11/14/2020				
62	143574842	JM15	11/14/2020				
63	143574843	JM16	11/14/2020				
64	143574844	JM17	11/14/2020				
65	143574845	JP1	11/14/2020				
66	143574846	JP2	11/14/2020				
67	143574847	LG1	11/14/2020				
68	143574848	LG2	11/14/2020				
69	143574849	LG3	11/14/2020				
70	143574850	LG4	11/14/2020				
71	143574851	LG5	11/14/2020				
72	143574852	LG6	11/14/2020				
73	143574853	LG7	11/14/2020				
74	143574854	LG8	11/14/2020				
75	143574855	LG9	11/14/2020				
76	143574856	LG10	11/14/2020				
77	143574857	LG12	11/14/2020				
78	143574858	LG14	11/14/2020				
79	143574859	M1	11/14/2020				
80	143574860	M2	11/14/2020				
81	I43574861	M3	11/14/2020				
82	143574862	M4	11/14/2020				
83	143574863	M5	11/14/2020				
84	143574864	M6	11/14/2020				



Job	Truss	Truss Type	Qty	Ply	Summit/5 Woodside
0500764	A1		4	_	143574781
2532764	AT	HIP GIRDER	1	3	Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Nov 10 16:05:01 2020 Page 2 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-gAjqcDOgQ?tJmB0BN71lhXZgjRd_xgWq6Y9KuoyKXfm

NOTES-

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

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

- Haring at joint(s) 1 considers parallel to grain value using ANSI/TP1 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 626 lb uplift at joint 1 and 623 lb uplift at joint 12.
- 14) 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.
- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

16) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 4-0-0 oc max. starting at 3-8-8 from the left end to 35-8-8 to connect truss(es) to front face of bottom chord.

17) Fill all nail holes where hanger is in contact with lumber.

18) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 594 lb down and 136 lb up at 1-8-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

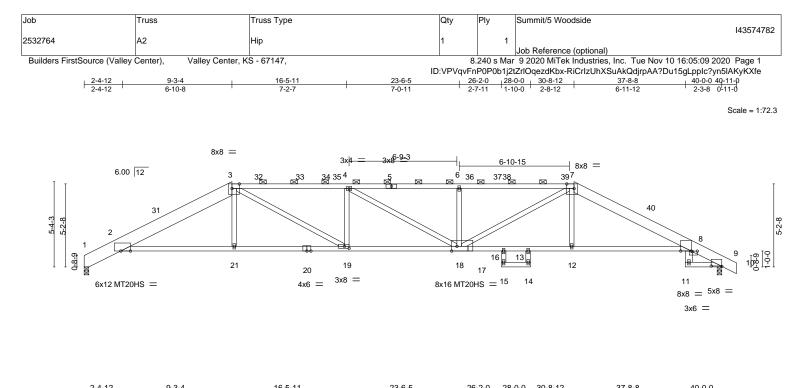
Uniform Loads (plf)

Vert: 1-29=-73, 3-29=-51, 3-10=-61, 10-11=-51, 11-13=-51, 11-28=-20, 14-31=-20

Concentrated Loads (lb)

Vert: 18=-334(F) 23=-338(F) 22=-334(F) 20=-334(F) 19=-334(F) 28=-594(F) 41=-292(F) 42=-338(F) 43=-334(F) 44=-334(F) 45=-334(F) 46=-339(F) 47=-339(F) 47=-3 48=-339(F) 49=-300(F) 50=-298(F) 51=-404(F)





	2-4-12	9-3-4	10-0-11	23-0-3	20-2-0	20-0-0	1 30-0-12	37-0-0	40-0-0	1
	2-4-12	6-10-8	7-2-7	7-0-11	2-7-11	1-10-0	2-8-12	6-11-12	2-3-8	1
Plate Offset	s (X,Y)	[2:0-7-4,Edge], [3:0-5-8,Ed	ge], [7:0-5-8,Edge], [8:0-7-14	,0-0-1], [8:0-3-8,0-0-8], [9:0)-8-0,0-0-5],	[17:0-0-0),0-1-12], [17:0-4-0,Edge], [18:0-1-1	2,0-0-0],	
		[19:0-3-8,0-1-8]								

LOADING (ref) Show (rPTPg) 20.4/20.0 TCDL (ref) 10.0 SPACING- 2.0-0 Plate Grip DOL 11.15 Lumber DOL 11.15 BC L00 CSI. TC 0.87 Vert(CT) 0.95 118-19 5938 240 PLATES MT20 H 303 Vert(CT) 0.48 9 n/a PLATES MT20 H 303 MT20H5 GRIP MT20 H 318/19 5938 240 BCLL 0.0 BCDL 10.0 10.0 Rep Stress Incr VES Code IRC2018/TPI2014 WB 0.40 Horz(CT) 0.48 9 n/a PLATES NT20H5 GRIP WE20H 149/16 LUMBER- TOP CHORD 2/4 SPF 1650F 1.5E 'Except' BRACING- TOP CHORD 2/4 SPF 1650F 1.5E 'Except' BRACING- TOP CHORD 2/4 SPF No.2 1-71,77.20; 2x4 SPF 1650F 1.5E BRACING- TOP CHORD 2/2-00 co purins (2-20 max): 3-7. Rigid celling directly applied, except 2-0-0 co purins (2-20 max): 3-7. BOT CHORD 2/4 SPF No.2 'Except' BOT CHORD 2/4 SPF No.2 -10-3.4, 3-4-3-64 Max Hou; 1=-98(LC 14) Max Hou; 1=-277/338, 18-19=-3764754, 16-18=-22743326, 12-42=-287/3331, 19-42=-287/3336, 18-19=-3764754, 16-18=-22743326, 12-42=-287/3331, 19-22=-257/3338, 18-19=-3764754, 16-18=-22743326, 12-42=-287/3331, 19-22=-267/3337, 18-19=-3764754, 16-18=-262/3381, 13-16=-274/3326, 12-42=-287/3331, 19-22=-267/2337, 19-186/1613, 4-19=-633/126, 6-18=-623/127, 7-18=-131/1564 NOTES- 10 Unclassed not live loads have been considered for this design. Sevier Micro Sevier Micro Micro Micro Max Mag Overns, Rain surcharge applied to all exposed surfaces with stopes list Micro	[19:0-3-8	,0-1-8]									
TOP CHORD 2x4 SPF 1650F 1.5F "Except" TOP CHORD Structural wood sheathing directly applied, except BOT CHORD 2x4 SPF No.2 "Except" BOT CHORD Pail 12:26 SPF No.2, 9:17,17-20: 2x4 SPF 1650F 1.5E 2-0-0 op turlins (2-2-0 multis) (TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0	Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	TC 0.87 BC 1.00 WB 0.40	Vert(LL) -0.51 18-19 Vert(CT) -0.95 18-19	>938 240 >504 180	MT20 MT20HS	197/144 148/108				
Max Horz 1=-96(LC 14) Max Uplitt 1=-138(LC 16), 9==170(LC 16) Max Grav 1=1810(LC 2), 9=1866(LC 2) FORCES. (b) - Max. Comp./Max. Ten All forces 250 (b) or less except when shown. TOP CHORD 1:2=-801/122, 2:3=-3639(410, 3:4=:4754/534, 4:6=:4754/528, 6:7=:4754/528, 7:6=:-3706(411, 8:9=:765/131 BOT CHORD 2:21=:257/3336, 18:19=:376(4754, 16:18=:262/3381, 13:16=:274/3326, 12:13=:262/3381, 8:12=:264/3373 WEBS 3:2:1=:0/294, 7:12=:0/323, 3:19=:136/1613, 4:19=:633/126, 6:18=:623/127, 7:18=:131/1564 NOTES- 1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7:16; Yult=115mph (3:second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II: Exp. C; Enclosed: WWFRS (directional) and C-C Exterior(2E) 0:1-12 to 2:10-9, Interior(1) 2:10-9 to 9:3-4, Exterior(2R) 9:3-4 to 13:6-3, Interior(1) 13:6-3 to 30:8-12, Exterior(2R) 30:8-12 to 34:11:11, Interior(1) 2:10-9 to 9:3-4, Exterior(2R) 9:3-4 to 13:6-3, Interior(1) 13:6-3 to 30:8-12, Exterior(2R) 30:8-12 to 34:11:11, Interior(1) 2:10-9 to 9:3-4, Exterior(2R) 9:3-4 to 13:6-3, Interior(1) 13:6-3 to 30:8-12, Exterior(2R) 30:8-12 to 34:11:11, Interior(1) 2:10-9 to 9:3-4, Exterior(2R) 9:3-4 to 13:6-3, Interior(1) 13:6-3 to 30:8-12, Exterior(2R) 30:8-12 to 34:11:11, Interior(1) 2:10-9 to 9:3-4, Exterior(2R) 9:3-4 to 13:6-3, Interior(1) 13:6-3 to 30:6-12, Exterior(2R) 30:6-12 to 35:10 to 2:10:59 to 1:00 come: analyzers grip DOL=1.60 3) TCLL: ASCE 7:16; IP=:25.0 psf (roof LL: Lum DOL=1.15) Pig=:20.0 psf; PI=:20.4 psf (Lum DOL=1.15) Plate DOL=1.15) [s=1.0; Rough Cat C; Parilally Exp.; Ce=1:0; Cs=1:0; Ci=1:10; Lint acordance with IBC 1608.3.4. 4) Uhoalanced snow loads have been considered for this design. 6) Provide adeguate drainage to prevent water ponding. 7) All plates are MTZ0 plates unless otherwise indicated.	LUMBER- TOP CHORD 2x4 SPF 1650F 1-3: 2x10 SP 24 BOT CHORD 2x4 SPF No.2 *F 8-11: 2x6 SPF N WEBS 2x4 SPF No.2	00F 2.0E, 7-10: 2x8 SP 2400F 2.0E Except* lo.2, 8-17,17-20: 2x4 SPF 1650F 1.5E	тс	OP CHORD Structural wood 2-0-0 oc purlins DT CHORD Rigid ceiling dir	ectly applied. Except:	blied, except					
 TOP CHORD 1:2=-801/122, 2:3=-3639/410, 3-4=-4754/534, 4-6=-4754/528, 6-7=-4754/528, 7-8=-3706/411, 8-9=-765/131 BOT CHORD 2:21=-259/3330, 19:21==257/3336, 18-19=-376/4754, 16-18=-262/3381, 13-16=-274/3326, 12-13=-262/381, 8-12=-264/3373 WEBS 3:21=0/294, 7-12=-0/323, 3-19=-136/1613, 4-19=-633/126, 6-18=-623/127, 7-18=-131/1564 NOTES- Unbalanced roof live loads have been considered for this design. Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 2-10-9. Interior(1) 3-4-11-10 2one; catliever left and right exposed; c-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 TOLL: ASCE 7-16; PT=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.16) plate grip DOL=1.60 TOLL: ASCE 7-16; PT=25.0 psf (roof LL: Lum DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.16) plate grip DOL=1.60 TOLL: ASCE 7-16; PT=25.0 psf (roof LL: Lum DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4. Unbalanced for this design. This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads. Provide adequate drainage to prevent water ponding. All plates are MT20 plates unless otherwise indicated. 	Max Horz 1=-96(LC 14) Max Uplift 1=-138(LC 16), 9=-170(LC 16)										
 Unbalanced roof live loads have been considered for this design. Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 2-10-9, Interior(1) 2-10-9 to 9-3-4, Exterior(2R) 9-3-4 to 13-6-3, Interior(1) 13-6-3 to 30-8-12, Exterior(2R) 30-8-12 to 34-11-11, Interior(1) 34-11-11 to 40-11-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.6); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4. Uhbalanced snow loads have been considered for this design. This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads. Provide adequate drainage to prevent water ponding. All plates are MT20 plates unless otherwise indicated. 	TOP CHORD 1-2=-801/122, 2-3=-3639/410, 3-4=-4754/534, 4-6=-4754/528, 6-7=-4754/528, 7-8=-3706/411, 8-9=-765/131 BOT CHORD 2-21=-259/3330, 19-21=-257/3336, 18-19=-376/4754, 16-18=-262/3381, 13-16=-274/3326, 12-13=-262/3381, 8-12=-264/3373 WEBS 3-21=0/294, 7-12=0/323, 3-19=-136/1613, 4-19=-633/126, 6-18=-623/127,										
 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 10) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface. 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 138 lb uplift at joint 1 and 170 lb uplift November 11,2020 	 Unbalanced roof live loads ha Wind: ASCE 7-16; Vult=115m II; Exp C; Enclosed; MWFRS 13-6-3, Interior(1) 13-6-3 to 31 exposed; end vertical left and grip DOL=1.60 TCLL: ASCE 7-16; Pr=25.0 pr DOL=1.15); Is=1.0; Rough Ca surcharge applied to all expose Unbalanced snow loads have This truss has been designed non-concurrent with other live Provide adequate drainage to All plates are XAMT20 unles This truss has been designed Bearing at joint(s) 1 conside capacity of bearing surface. 	high (3-second gust) Vasd=91mph; TCDI (directional) and C-C Exterior(2E) 0-1-1 0-8-12, Exterior(2R) 30-8-12 to 34-11-11 d right exposed; C-C for members and fo sf (roof LL: Lum DOL=1.15 Plate DOL=1 at C; Partially Exp.; Ce=1.0; Cs=1.00; Ct sed surfaces with slopes less than 0.500 been considered for this design. for greater of min roof live load of 12.0 loads. prevent water ponding. less otherwise indicated. is otherwise indicated. is otherwise indicated. for a 10.0 psf bottom chord live load no rs parallel to grain value using ANSI/TP	2 to 2-10-9, Interior(1) 2- 1, Interior(1) 34-11-11 to 4 rcces & MWFRS for reacti 1.15); Pg=20.0 psf; Pf=20 =1.10, Lu=50-0-0; Min. fla /12 in accordance with IE psf or 1.00 times flat roof nconcurrent with any other 1 angle to grain formula.	10-9 to 9-3-4, Exterior(2R) 9-3-4 40-11-0 zone; cantilever left and ons shown; Lumber DOL=1.60 p .4 psf (Lum DOL=1.15 Plate at roof snow load governs. Rain 3C 1608.3.4. load of 15.4 psf on overhangs er live loads. . Building designer should verify	to right plate	SEVIER NUMBER PE-200101880					

11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 138 lb uplift at joint 1 and 170 lb uplift Contation bearing plate capable of withstanding 138 lb uplift at joint 1 and 170 lb uplift



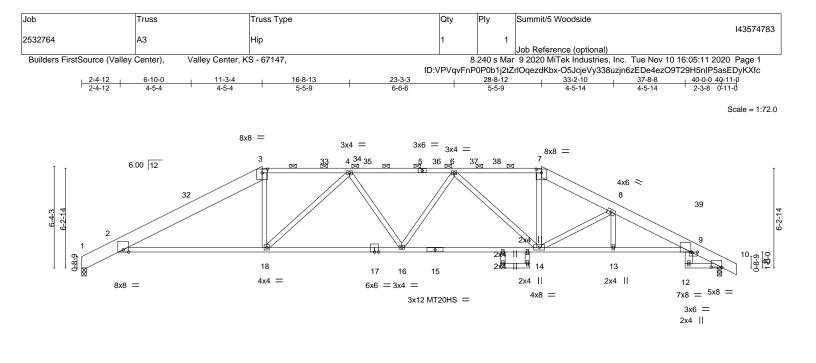
Ī	lob	Truss	Truss Type	Qty	Ply	Summit/5 Woodside	
						143574782	
12	2532764	A2	Hip	1	1		
						Job Reference (optional)	
	Builders FirstSource (Valley Center), Valley Center, K		S - 67147,	8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Nov 10 16:05:09 2020			
		ID	ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-RiCrIzUhXSuAkQdjrpAA?Du15gLppIc?yn5lAKyKXfe				

12) 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.

13) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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





L	2-4-12	11-3-4	20-0-	-0	1	23-3-3	26-2-0	28-8 0 28-0-0	12 J 33-2-	10	37-8-8	40-0-0	1
Plate Offsets (2	2-4-12 X Y) [3:0-4-0 (8-10-8)-2-13], [7:0-4-0,0-2-13], [9	<u>8-8-1</u> 0:0-0-2 Edge] [9:0-3		10.0-8-0	3-3-3 0-0-51	2-10-1	3 ¹ 1-10-0 0 ¹ 8-	12 4-5-	14	4-5-14	2-3-8	
LOADING (ps						-							
TCLL (roof)	25.0	SPACING-	2-0-0	CSI.	-	DE		in (loc)		L/d	PLA		GRIP
Snow (Pf/Pg)	20.4/20.0	Plate Grip DOL	1.15	TC 0.7		-	t(LL)	-0.38 14-16		240	MT2		197/144
TCDL	10.0	Lumber DOL Rep Stress Incr	1.15 YES	BC 0.9 WB 0.8		1	t(CT) z(CT)	-0.76 14-16 0.45 10		180 n/a	MT2	0H5	148/108
BCLL	0.0	Code IRC2018/TPI	-	Matrix-AS	J		2(01)	0.45 10	11/a	11/d	Wei	ht: 209 lb	FT = 20%
BCDL	10.0		2014	Matrix-A0							WEI	jin. 203 lo	11 = 2078
LUMBER-						ACING-							
TOP CHORD					TC	P CHORI		Structural woo			pplied, except		
		00F 2.0E, 7-11: 2x8 SP 24	00F 2.0E					2-0-0 oc purlir		,			
BOT CHORD	2x4 SPF No.2 *E				BC	OT CHORI	D F	Rigid ceiling d	irectly appl	ied.			
		SPF 1650F 1.5E, 9-12: 2x6	SPF No.2										
WEBS	2x4 SPF No.2												
OTHERS	2x4 SPF No.2												
REACTIONS.	(size) 1=0-3	3-8. 10=0-3-8											
	Max Horz 1=-1												
		38(LC 16), 10=-170(LC 16)										
	Max Grav 1=18	10(LC 2), 10=1866(LC 2)											
TOP CHORD 1-2=-801/123, 2-3=-3330/373, 3-4=-3003/392, 4-6=-3603/445, 6-7=-2990/396, 7-8=-3417/414, 8-9=-4263/485, 9-10=-765/131 BOT CHORD 2-18=-204/2982, 16-18=-282/3545, 14-16=-281/3552, 13-14=-370/3977, 9-13=-370/3977 WEBS 3-18=-5/816, 7-14=-100/1243, 4-18=-914/107, 6-14=-931/109, 8-14=-1245/190 NOTES- 1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 2-10-9, Interior(1) 2-10-9 to 11-3-4, Exterior(2R) 11-3-4 to													
 15-6-3, Interior(1) 15-6-3 to 28-8-12, Exterior(2R) 28-8-12 to 33-2-10, Interior(1) 33-2-10 to 40-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4. 4) Unbalanced snow loads have been considered for this design. 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads. 													
		prevent water ponding.								<u> </u>	Ū	0	1 8
		less otherwise indicated.								N -	solt	Anto	Allert
		for a 10.0 psf bottom chor	d live load noncond	current with	any othe	er live load	ds.			1	DE	00101000	TAD
		s parallel to grain value usi						should verify		N.	PE-2	00101880	"ISA
capacity of t	bearing surface.	-	Ū	-		-	-	-			h Per	/	SA
	echanical connect	ion (by others) of truss to I	pearing plate capab	ole of withst	anding 1	38 lb uplif	t at join	t 1 and 170 lb	uplift		\$ 510	VAL E	A
at joint 10.	in the state of the		and the set Desci 1 of			500 44 4		0.40.0 !			Qu	AL	9
	is designed in acc I standard ANSI/T	cordance with the 2018 Inte	emational Resident	ial Code se	cuons R	502.11.18	ana K80	2.10.2 and			Novor	ber 11,2	2020
Continued on pa											noven		020
continued on pa	uyo z												

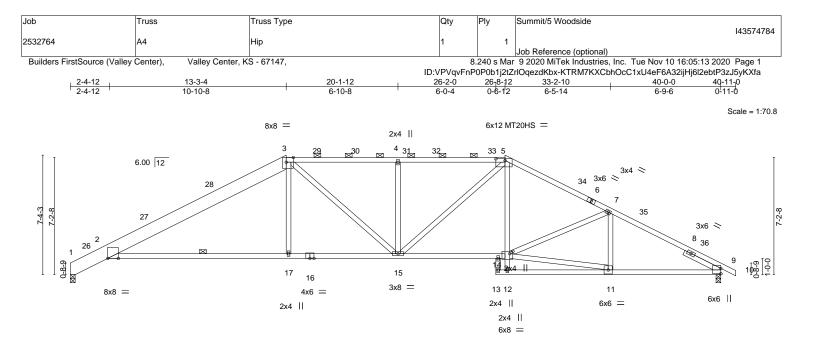
16023 Swingley Ridge Rd Chesterfield, MO 63017

Ī.	ob	Truss	Truss Type	Qty	Ply	Summit/5 Woodside	
						143574783	
2	532764	A3	Hip	1	1		
						Job Reference (optional)	
	Builders FirstSource (Valley Center), Valley Center, KS		S - 67147,	8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Nov 10 16:05:11 202			
		ID:\	ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-05JcjeVy338uzjn6zEDe4ezO9T29H5nIP5asEDyKXfc				

12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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





<u> </u>	13-3-4	20-1-12	26-2-0	26-8-12	33-2-10		40-0-0	
Plate Offsets (X,Y) [2:0-7-12	13-3-4 ,Edge], [3:0-5-4,Edge], [5:0-6-12,0-1-4]	6-10-8 [14·0-2-4 0-1-12]	6-0-4	0-6-12	6-5-14		6-9-6	·
LOADING (psf)	<u>, Edgoj, [0.0 0 1, Edgoj, [0.0 0 12,0 1 1</u>	, [11.0 2 1,0 1 12]						
TCLL (roof) 25.0	SPACING- 2-0-0	CSI.	DEFL.	in (loc)		L/d	PLATES	GRIP
Snow (Pf/Pg) 20.4/20.0	Plate Grip DOL 1.15	TC 0.89	Vert(LL)	-0.36 17-21		240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.98 WB 0.65	Vert(CT) Horz(CT)	-0.83 17-21 0.33 9		80	MT20HS	148/108
BCLL 0.0	Code IRC2018/TPI2014	Matrix-AS		0.55 8	9 11/a	n/a	Weight: 199 lb	FT = 20%
BCDL 10.0		Wattix-AS					Weight. 199 lb	FT = 2076
LUMBER-		BF	RACING-					
TOP CHORD 2x4 SPF No.2 *	Except*	TC	P CHORD	Structural woo	od sheathing d	irectly appl	ied, except	
1-3: 2x10 SP 24				2-0-0 oc purlin				
BOT CHORD 2x4 SPF No.2 *		BC	OT CHORD	Rigid ceiling d		. Except:		
2-16: 2x4 SPF 1	650F 1.5E			10-0-0 oc brac	cing: 2-17			
WEBS 2x4 SPF No.2								
SLIDER Right 2x4 SPF N	NO.2 2-6-U							
REACTIONS. (size) 1=0-	3-8 9-0-3-8							
Max Horz 1=-1								
	36(LC 16), 9=-170(LC 16)							
	314(LC 2), 9=1867(LC 2)							
7-9=-3102/362 BOT CHORD 2-17=-176/275 WEBS 3-17=0/372, 3-	2-3=-3102/362, 3-4=-3085/422, 4-5=-3 9, 15-17=-174/2764, 14-15=-179/2708 -15=-51/611, 4-15=-650/127, 5-15=-54/ 646, 7-14=-227/253	, 9-11=-246/2692	=-18/599,					
 Wind: ASCE 7-16; Vult=115m II; Exp C; Enclosed; MWFRS 17-6-3, Interior(1) 17-6-3 to 2 exposed; end vertical left and grip DOL=1.60 TCLL: ASCE 7-16; Pr=25.0 p DOL=1.15); Is=1.0; Rough Ca surcharge applied to all expose Unbalanced snow loads have This truss has been designed non-concurrent with other live Provide adequate drainage to 7) All plates are MT20 plates un 8) This truss has been designed Bearing at joint(s) 1 considers capacity of bearing surface. 	prevent water ponding.	12 to 2-10-9, Interior(1) 2- 1, Interior(1) 30-11-11 to 4 prces & MWFRS for reacti 1.15); Pg=20.0 psf; Pf=20 t=1.10, Lu=50-0-0; Min. fla 0/12 in accordance with IE psf or 1.00 times flat roof onconcurrent with any other 1 angle to grain formula.	10-9 to 13-3-4, E 40-11-0 zone; ca ons shown; Lum .4 psf (Lum DOL at roof snow load 3C 1608.3.4. load of 15.4 psf er live loads. Building designe	xterior(2R) 13- intilever left and ber DOL=1.60 =1.15 Plate d governs. Rain on overhangs	3-4 to d right plate n		TE OF MISS SCOTT M. SEVIER PE-200101880 PE-200101880	men
,	cordance with the 2018 International Re PI 1.	sidential Code sections R	502.11.1 and R8	302.10.2 and			November 11,2	2020
	neters and READ NOTES ON THIS AND INCLUDE ek® connectors. This design is based only upon p							

16023 Swingley Ridge Rd Chesterfield, MO 63017

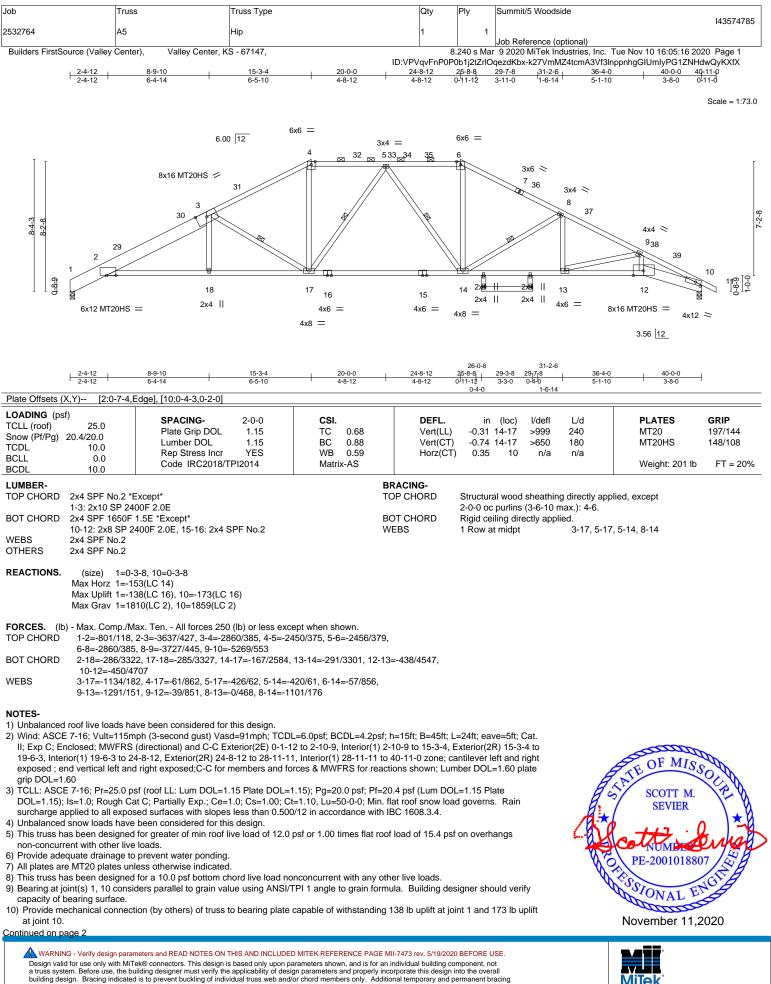
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must venty the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

[Job	Truss	Truss Type	Qty	Ply	Summit/5 Woodside		
						143574784		
	2532764	A4	Нір	1	1			
						Job Reference (optional)		
	Builders FirstSource (Valley Center), Valley Center, KS - 67147,			8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Nov 10 16:05:13 2020 Page 2				
			ID:V	/PVqvFnP	0P0b1j2tZ	rlOqezdKbx-KTRM7KXCbhOcC1xU4eF6A32ijHj6l2ebtP3zJ5yKXfa		

12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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





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 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

16023 Swingley Ridge Rd Chesterfield, MO 63017

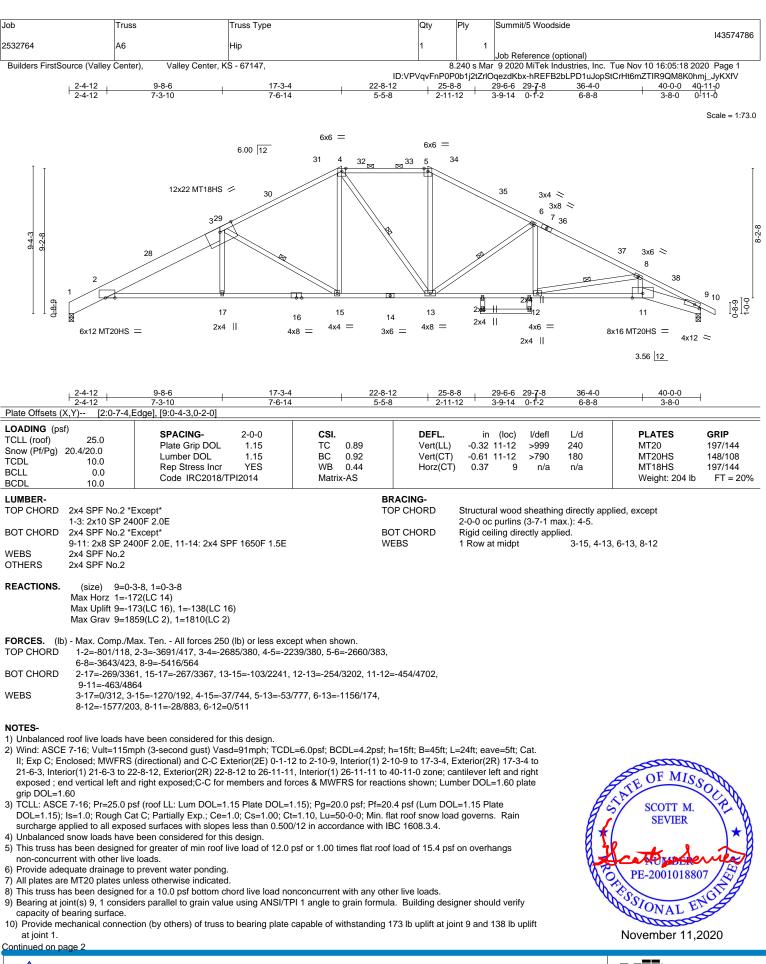
[Job	Truss	Truss Type	Qty	Ply	Summit/5 Woodside
						143574785
	2532764	A5	Hip	1	1	
						Job Reference (optional)
	Builders FirstSource (Valley	Center), Valley Center, K	S - 67147,	8.	240 s Mar	9 2020 MiTek Industries, Inc. Tue Nov 10 16:05:16 2020 Page 2
			ID:VPV	ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-k27VmMZ4tcmA3Vf3InppnhgGIUmIyPG1ZNHdwQyKXfX		

11) 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.

12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

16023 Swingley Ridge Rd Chesterfield, MO 63017

MiTek

[Job	Truss	Truss Type	Qty	Ply	Summit/5 Woodside
						143574786
	2532764	A6	Нір	1	1	
						Job Reference (optional)
	Builders FirstSource (Valley	Center), Valley Center, K	S - 67147,	8.	240 s Mar	9 2020 MiTek Industries, Inc. Tue Nov 10 16:05:18 2020 Page 2
			ID:VP	VqvFnP0P	0b1j2tZrlO	qezdKbx-hREFB2bLPD1uJopStCrHt6mZTIR9QM8K0hmj_JyKXfV

11) 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.

12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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



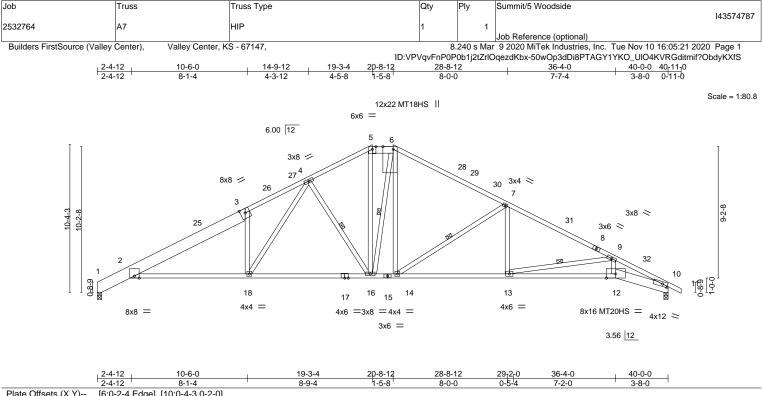


Plate Offsets (X,Y) [6:0-2-4,	Edge], [10:0-4-3,0-2-0]					
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.85 BC 0.96 WB 0.50 Matrix-AS	DEFL. Vert(LL) Vert(CT) Horz(CT		l/defl L/d >999 240 >709 180 n/a n/a	PLATES GRIP MT20 197/144 MT20HS 148/108 MT18HS 197/144 Weight: 215 lb FT = 20%
BOT CHORD 2x4 SPF No.2 *I 10-12: 2x8 SP 2 WEBS 2x4 SPF No.2 REACTIONS. (size) 10=0 Max Horz 1=-1 Max Uplift 10=-	b.2, 1-3: 2x10 SP 2400F 2.0E Except* 4400F 2.0E, 12-15: 2x4 SPF 1650F 1.5E 0-3-8, 1=0-3-8 91(LC 14) 173(LC 16), 1=-138(LC 16)	TC	RACING- DP CHORD DT CHORD EBS		(4-7-14 max.): 5 ectly applied.	ly applied, except -6. i, 7-14, 9-13, 6-16
FORCES. (lb) Max. Comp./N TOP CHORD 1-2=-818/115, 6-7=-2642/35 BOT CHORD 2-18=-207/331 10-12=-442/45 WEBS 3-18=-761/175	1873(LC 39), 1=1845(LC 39) 1ax. Ten All forces 250 (lb) or less exc. 2-3=-3666/366, 3-4=-3771/466, 4-5=-26 5, 7-9=-3704/393, 9-10=-5560/538 12, 16-18=-134/2685, 14-16=-60/2209, 1 392 5, 4-18=-126/1127, 4-16=-886/168, 5-16: 39, 7-13=0/550, 9-13=-1692/218, 9-12=-	941/365, 5-6=-2195/349, 3-14=-220/3266, 12-13= =-146/957, 6-14=-68/724	,			
 NOTES- 1) Unbalanced roof live loads ha 2) Wind: ASCE 7-16; Vult=115rr II; Exp C; Enclosed; MWFRS 20-8-12, Exterior(2R) 20-8-12 and right exposed; C-C for me 3) TCLL: ASCE 7-16; Pr=25.0 p DOL=1.15); Is=1.0; Rough Casurcharge applied to all exposed 4) Unbalanced snow loads have 5) This truss has been designed non-concurrent with other live 6) Provide adequate drainage to 7) All plates are MT20 plates un 8) This truss has been designed 9) Bearing at joint(s) 10, 1 consic capacity of bearing surface. 10) Provide mechanical connect at joint 1. 	ave been considered for this design. nph (3-second gust) Vasd=91mph; TCDI (directional) and C-C Exterior(2E) 0-1-1 2 to 24-11-11, Interior(1) 24-11-11 to 40- sembers and forces & MWFRS for reaction sf (roof LL: Lum DOL=1.15 Plate DOL=1 at C; Partially Exp.; Ce=1.0; Cs=1.00; Ct sed surfaces with slopes less than 0.500 be been considered for this design. If or greater of min roof live load of 12.0 a loads. b prevent water ponding.	==6.0psf; BCDL=4.2psf; H 2 to 2-10-9, Interior(1) 2- 11-0 zone; cantilever left ns shown; Lumber DOL= 1.15); Pg=20.0 psf; Pf=20 =1.10, Lu=50-0-0; Min. fl //12 in accordance with IE psf or 1.00 times flat roof nconcurrent with any oth TPI 1 angle to grain formuc capable of withstanding 1	10-9 to 19-3-4, I and right expos -1.60 plate grip I 0.4 psf (Lum DO lat roof snow loa BC 1608.3.4. ¹ load of 15.4 psi er live loads. Ja. Building des 173 lb uplift at jo	Exterior(2E) 19-3 ed ; end vertical I DOL=1.60 L=1.15 Plate d governs. Rain on overhangs signer should ver int 10 and 138 lb	-4 to eft	SCOTT M. SEVIER * * * * * * * * * * * * * * * * * * *

11) 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.

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

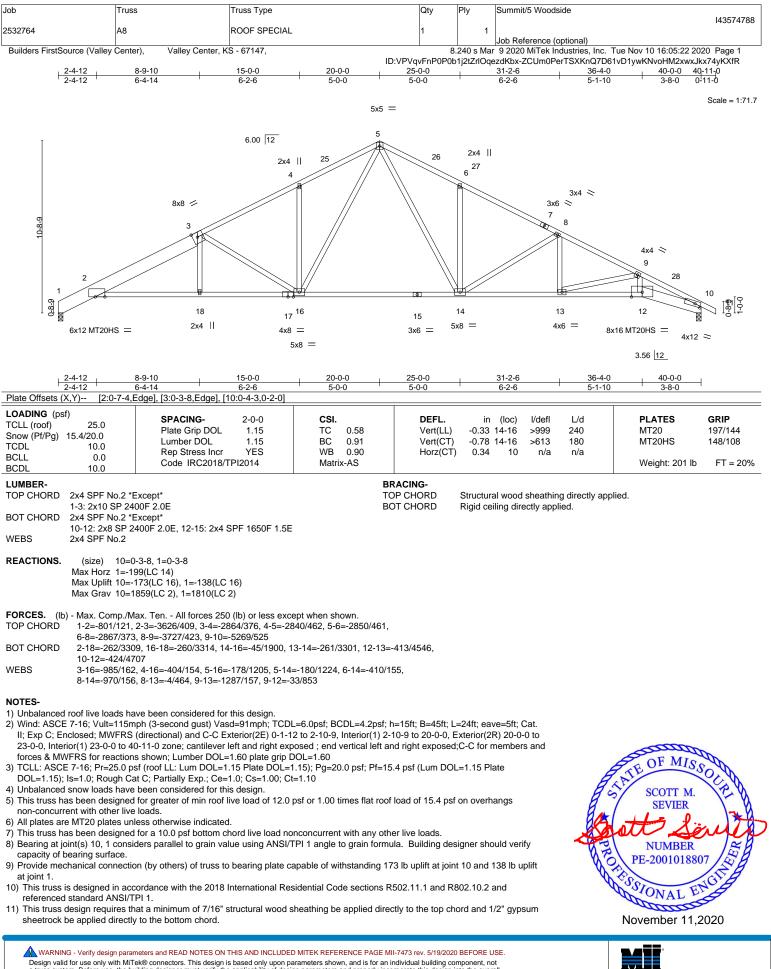
November 11,2020

[Job	Truss	Truss Type	Qty	Ply	Summit/5 Woodside
						143574787
	2532764	A7	HIP	1	1	
						Job Reference (optional)
	Builders FirstSource (Valley	Center), Valley Center, K	S - 67147,	8.	240 s Mar	9 2020 MiTek Industries, Inc. Tue Nov 10 16:05:21 2020 Page 2
			ID:VP\	/qvFnP0P	0b1j2tZrIC	qezdKbx-50wOp3dDi8PTAGY1YKO_UIO4KVRGditmif?ObdyKXfS

12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

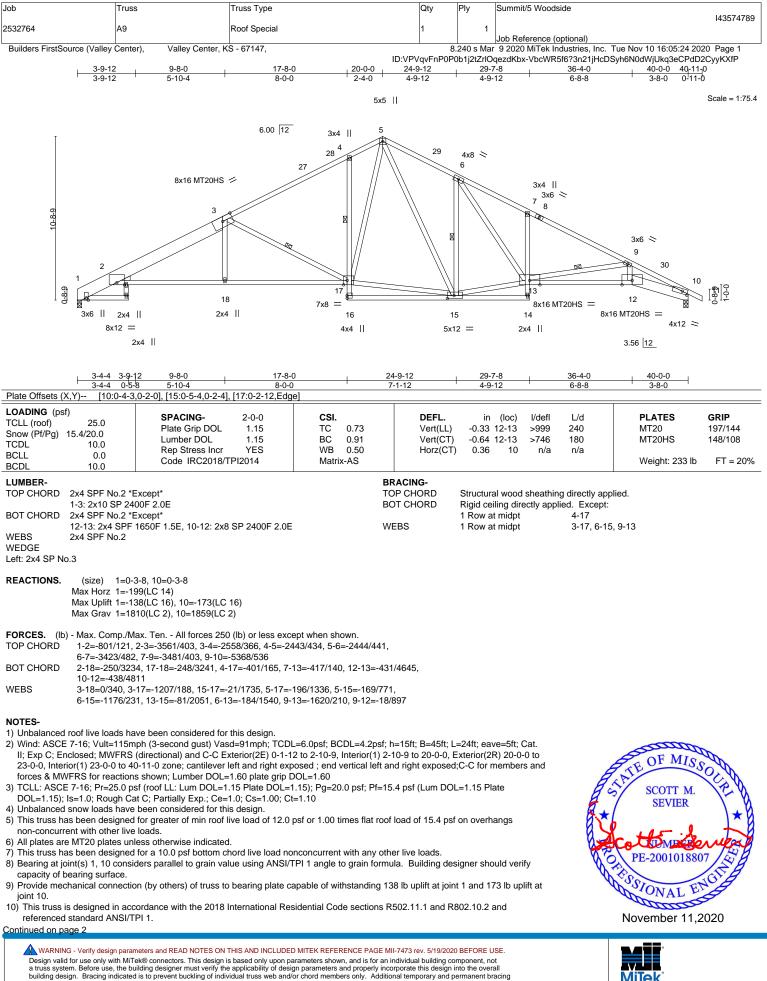




Design valid for use only with MI let® connectors. I his design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

16023 Swingley Ridge Rd Chesterfield, MO 63017

MiTek



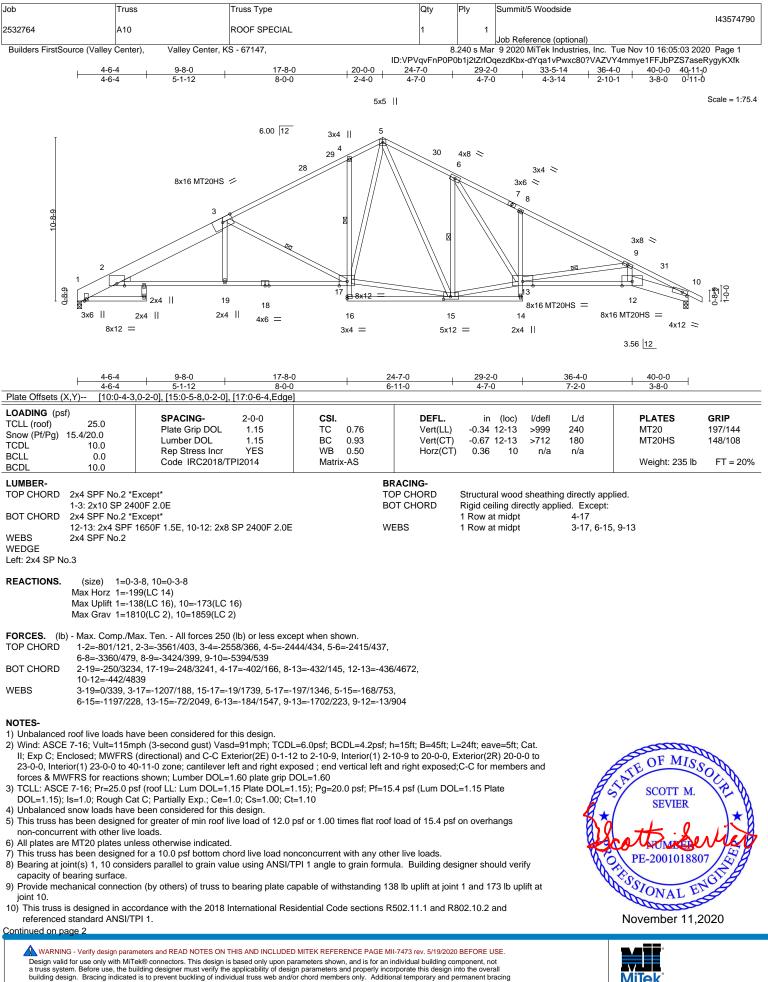
besign value to be only with with ever connectors. This besign is based only upon parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/5 Woodside
					143574789
2532764	A9	Roof Special	1	1	
					Job Reference (optional)
Builders FirstSource (Valley	Center), Valley Center, K	S - 67147,	8	240 s Mar	9 2020 MiTek Industries, Inc. Tue Nov 10 16:05:24 2020 Page 2
		ID:VPV	/qvFnP0P0	b1j2tZrlO	gezdKbx-VbcWR5f6?3n21jHcDSyh6N0dWjUkg3eCPdD2CyyKXfP

11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.





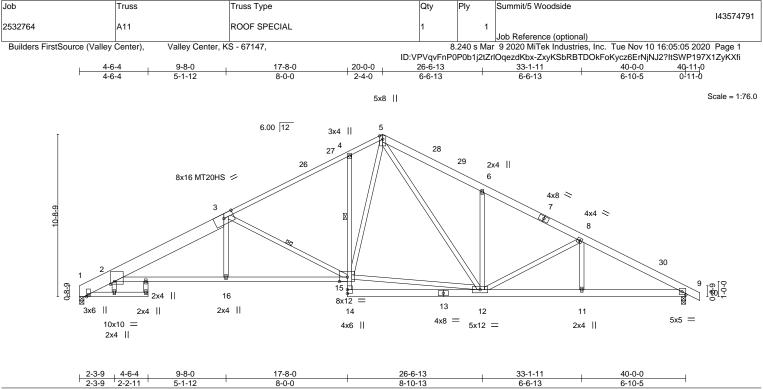
besign value to be only with with ever connectors. This besign is based only upon parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/5 Woodside
					143574790
2532764	A10	ROOF SPECIAL	1	1	
					Job Reference (optional)
Builders FirstSource (Valley	Center), Valley Center, H	S - 67147,	8	.240 s Mai	9 2020 MiTek Industries, Inc. Tue Nov 10 16:05:03 2020 Page 2
		ID:VP\	/qvFnP0P	0b1j2tZrlO	qezdKbx-dYqa1vPwxc80?VAZVY4mmye1FFJbPZS7aseRygyKXfk

11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.





	2-3-9 2-2-1	1 3-1-12	0-0-0			0-10-13		0-0-13		0-10-5	
Plate Offsets (X,Y)	[2:0-3-0,0	-2-3], [9:Edge,0-2-8], [15	:0-6-4,Edge]								
LOADING (psf) TCLL (roof) Snow (Pf/Pg) 15.4 TCDL BCLL BCDL	25.0 4/20.0 10.0 0.0 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TF	2-0-0 1.15 1.15 YES VI2014	CSI. TC BC WB Matriz	0.73 0.91 0.53 x-AS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (lc -0.24 15- -0.52 15- 0.24	6 >999	L/d 240 180 n/a	PLATES MT20 MT20HS Weight: 240 lb	GRIP 197/144 148/108 FT = 20%
LUMBER- TOP CHORD 2x6 SPF No.2 *Except* 3-5: 2x4 SPF No.2, 1-3: 2x10 SP 2400F 2.0E BOT CHORD 2x4 SPF No.2 *Except* 17-18: 2x4 SP 2400F 2.0E, 13-14,9-13: 2x6 SPF No.2 WEBS 2x4 SPF No.2			TC BC			directly app lpt	ng directly applie blied. Except: 4-15 3-15	ed.			
Ma Ma		,)								

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

 TOP CHORD
 1-2=-801/124, 2-3=-3562/403, 3-4=-2557/366, 4-5=-2437/433, 5-6=-2757/477, 6-8=-2721/362, 8-9=-3249/368

 BOT CHORD
 2-16=-247/3235, 15-16=-244/3241, 4-15=-398/164, 11-12=-240/2806, 9-11=-240/2806

BOICHORD	2-16=-247/3235, 15-16=-244/3241, 4-15=-398/164, 11-12=-240/2806, 9-11=-240/2806
WEBS	3-16=0/341, 3-15=-1209/188, 12-15=-21/1629, 5-15=-187/1270, 5-12=-198/990,
	6-12=-538/189, 8-12=-554/112

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 2-10-9, Interior(1) 2-10-9 to 20-0-0, Exterior(2R) 20-0-0 to 23-0-0, Interior(1) 23-0-0 to 40-11-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

4) Unbalanced snow loads have been considered for this design.

5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.

6) All plates are MT20 plates unless otherwise indicated.

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

8) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify

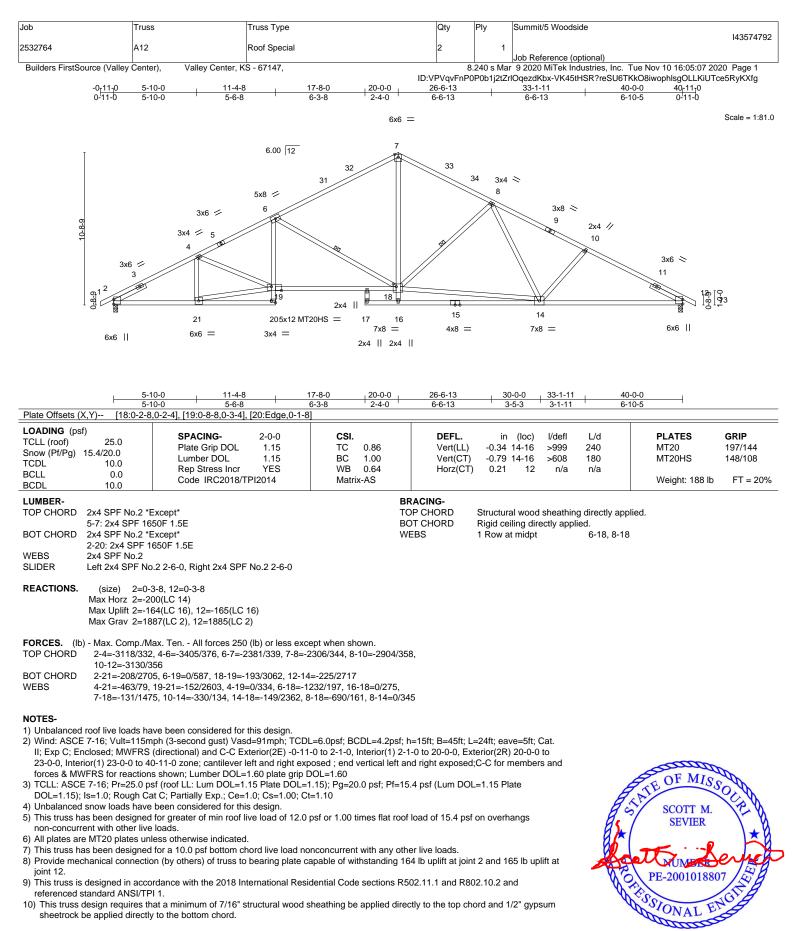
capacity of bearing surface.9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 138 lb uplift at joint 1 and 173 lb uplift at joint 9.

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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.







A

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designe. 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 **ANSITP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MITEK* 16023 Swingley Ridge Rd Chesterfield, MO 63017

November 11,2020

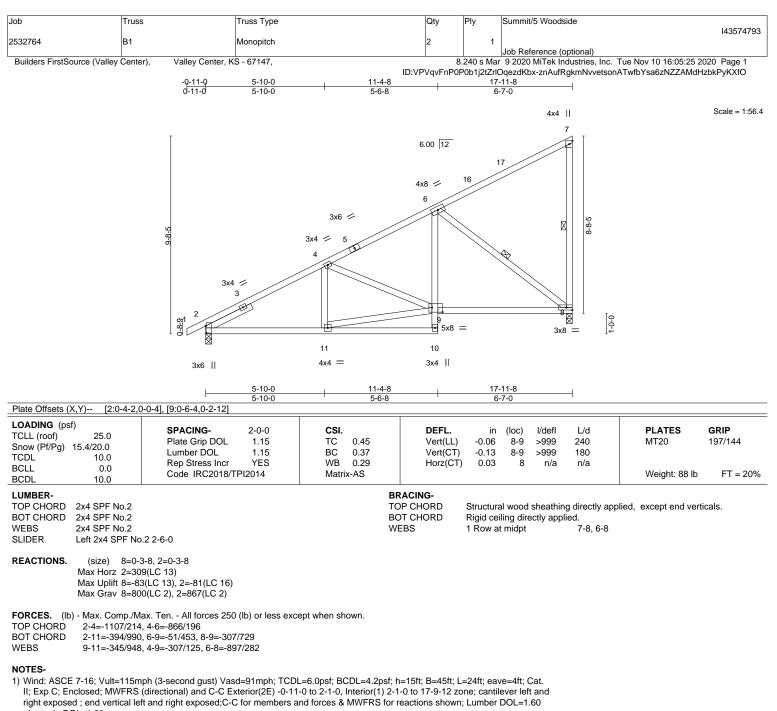


plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

3) Unbalanced snow loads have been considered for this design.

4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.

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

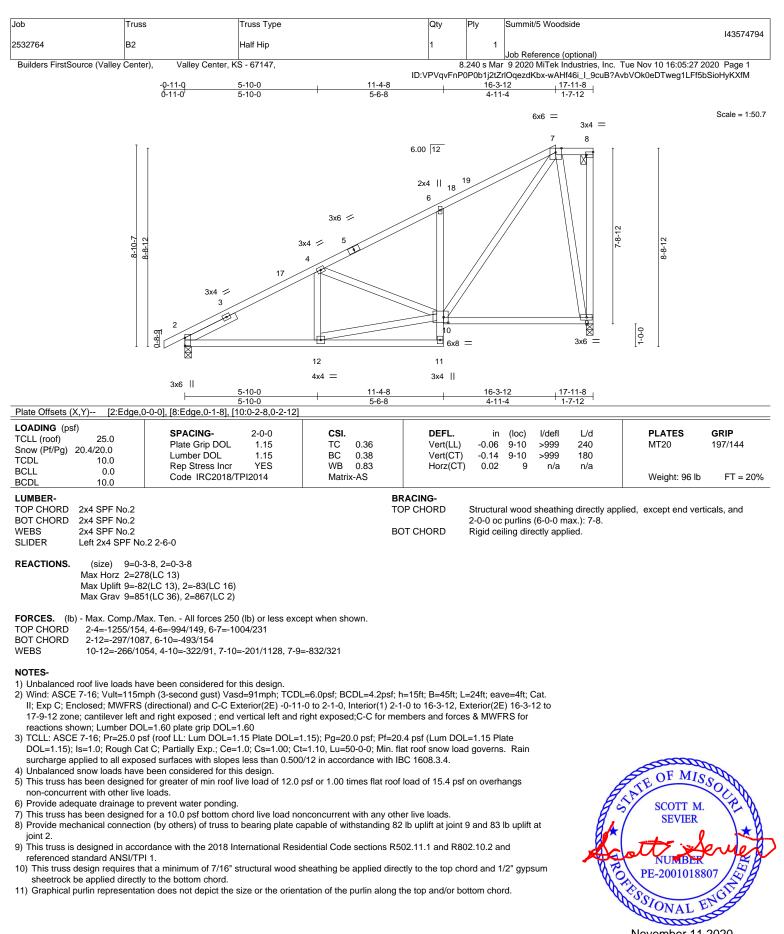
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 83 lb uplift at joint 8 and 81 lb uplift at joint 2.

7) 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.

8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

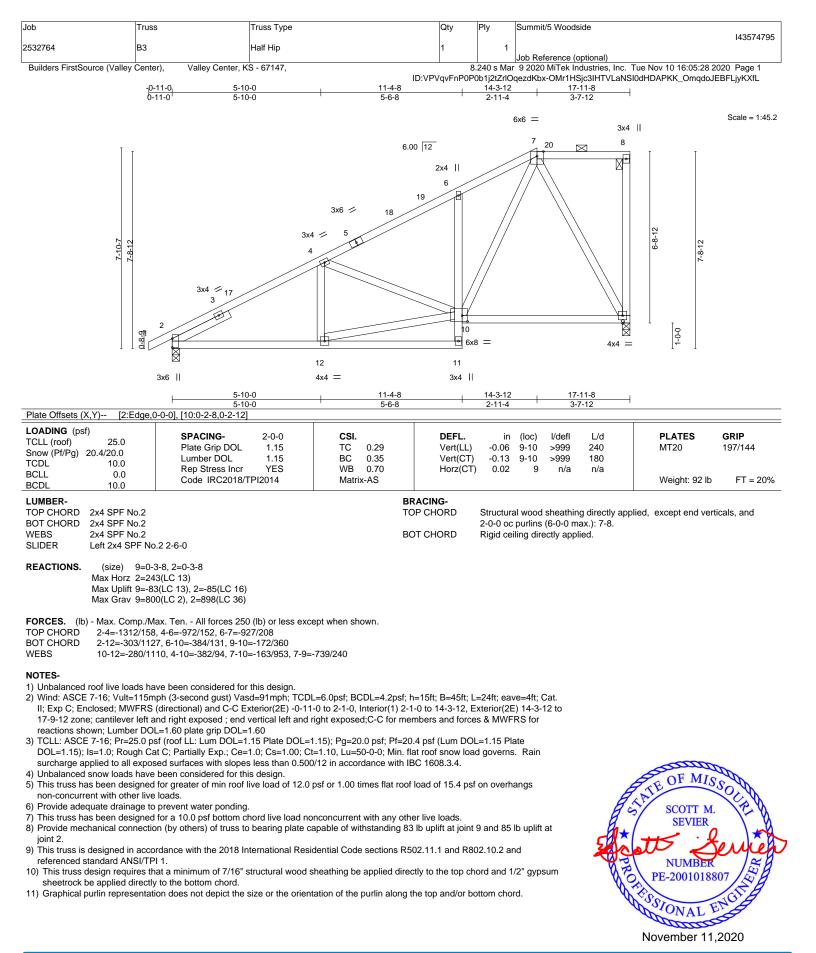


16023 Swingley Ridge Rd Chesterfield, MO 63017

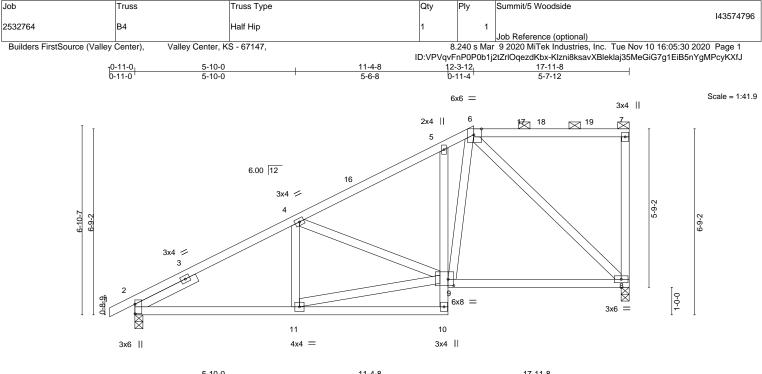


November 11,2020

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017







	5-10-0	11-4-0	1/-11-0	
	5-10-0	5-6-8	6-7-0	
Plate Offsets (X,Y) [2:Edge,0	0-0-0], [6:0-3-5,Edge], [9:0-2-8,0-2-12]			
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	TC 0.45 Ve BC 0.34 Ve	FL. in (loc) l/defl L/d t(LL) -0.06 8-9 >999 240 t(CT) -0.13 8-9 >999 180 z(CT) 0.03 8 n/a n/a	PLATES GRIP MT20 197/144 Weight: 90 lb FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied, except end verticals, and
BOT CHORD	2x4 SPF No.2		2-0-0 oc purlins (6-0-0 max.): 6-7.
WEBS	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied.
SLIDER	Left 2x4 SPF No.2 2-6-0		

REACTIONS. (size) 8=0-3-8, 2=0-3-8 Max Horz 2=209(LC 13) Max Uplift 8=-85(LC 13), 2=-87(LC 16) Max Grav 8=800(LC 2), 2=939(LC 36)

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

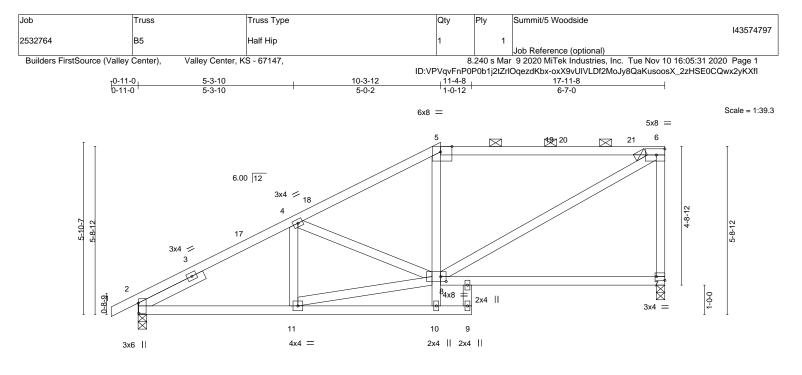
- TOP CHORD 2-4=-1164/166, 4-5=-908/161, 5-6=-817/183
- BOT CHORD 2-11=-302/1110. 5-9=-285/97. 8-9=-209/573
- WEBS 9-11=-284/1099, 4-9=-429/93, 6-9=-121/789, 6-8=-774/219

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 12-3-12, Exterior(2R) 12-3-12 to 16-6-11, Interior(1) 16-6-11 to 17-9-12 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
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 85 lb uplift at joint 8 and 87 lb uplift at joint 2.
- 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.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



16023 Swingley Ridge Rd Chesterfield, MO 63017



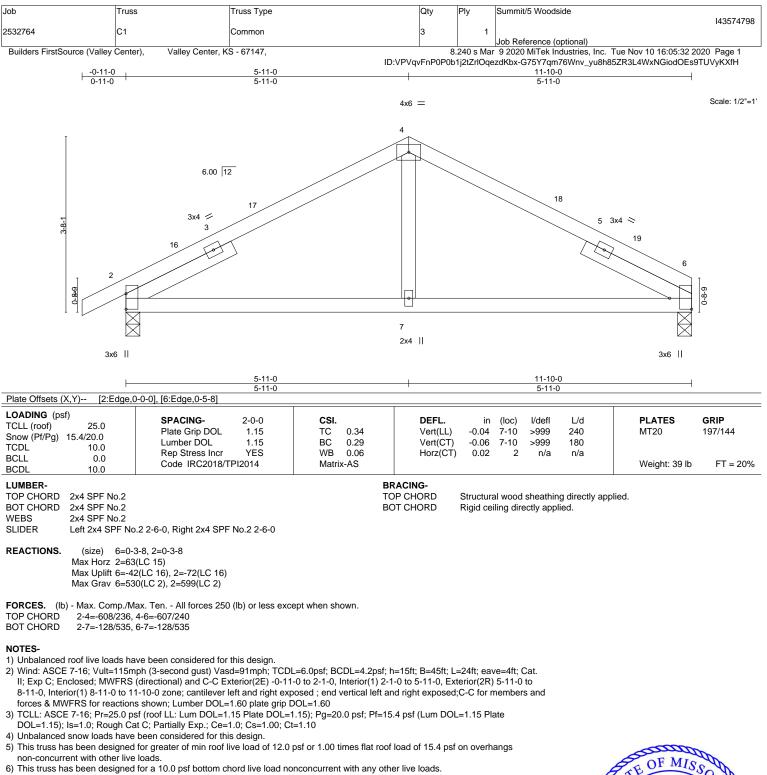
	5-3-10	10-3-12	11-4-8		17-11-			
Plate Offsets (X,Y) [2:0-4-2,0	5-3-10 D-0-4], [5:0-4-10,Edge], [7:Edge,0-1-8], [5-0-2	1-0-12		6-7-0			
	<u>/////////////////////////////////////</u>	0.0-2-4,0-2-0]						
LOADING (psf) TCLL (roof) 25.0	SPACING- 2-0-0	CSI.	DEFL.	in (loc		L/d	PLATES	GRIP
Snow (Pf/Pg) 20.4/20.0	Plate Grip DOL 1.15	TC 0.78	Vert(LL)	-0.14 7-		240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.48	Vert(CT)	-0.28 7-		180		
BCLL 0.0	Rep Stress Incr YES	WB 0.31	Horz(CT)	0.02	7 n/a	n/a		FT 00%
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS					Weight: 83 lb	FT = 20%
LUMBER-		В	RACING-					
TOP CHORD 2x4 SPF No.2 *E	Except*	Т	OP CHORD	Structural wo	od sheathin	g directly ap	plied, except end vert	icals, and
5-6: 2x4 SPF 16	50F 1.5E			2-0-0 oc purli	ns (5-0-8 m	ax.): 5-6.		
BOT CHORD 2x4 SPF No.2		В	OT CHORD	Rigid ceiling	directly appl	lied.		
WEBS 2x4 SPF No.2								
SLIDER Left 2x4 SPF No	0.2 2-6-0							
FORCES. (lb) - Max. Comp./M TOP CHORD 2-4=-1200/165 BOT CHORD 2-11=-294/107	3(LC 2), 2=956(LC 36) ax. Ten All forces 250 (lb) or less exc 5, 4-5=-997/177, 5-6=-846/184, 6-7=-725 '3 8-11=-297/1059, 4-8=-343/64							
NOTES-								
	ave been considered for this design.							
	nph (3-second gust) Vasd=91mph; TCDI	=6 0psf: BCDI =4 2psf:	h=15ft B=45ft I =	24ft eave=4	t [.] Cat			
	(directional) and C-C Exterior(2E) -0-11							
	0 17-9-12 zone; cantilever left and right e							
and forces & MWFRS for read	ctions shown; Lumber DOL=1.60 plate g	prip DOL=1.60						
	sf (roof LL: Lum DOL=1.15 Plate DOL=1							
	at C; Partially Exp.; Ce=1.0; Cs=1.00; C			governs. Ra	in		and	N
	sed surfaces with slopes less than 0.500	0/12 in accordance with I	BC 1608.3.4.				OF MIS	all all
	been considered for this design.	naf as 1 00 times flat sag	flood of 15 4 mot			4	SCOTT M	N.O.
5) This truss has been designed non-concurrent with other live	I for greater of min roof live load of 12.0	psi or 1.00 times flat roo	1 10au 01 15.4 pst 0	on overnangs		4	N.	Nest
6) Provide adequate drainage to						B	South m.	1:2 8
	for a 10.0 per bottom chord live load po	nconcurrent with any of	ar live loads			R.	SEVIER	/ Y

- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 64 lb uplift at joint 7 and 85 lb uplift at joint 2.
- 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.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 11,2020

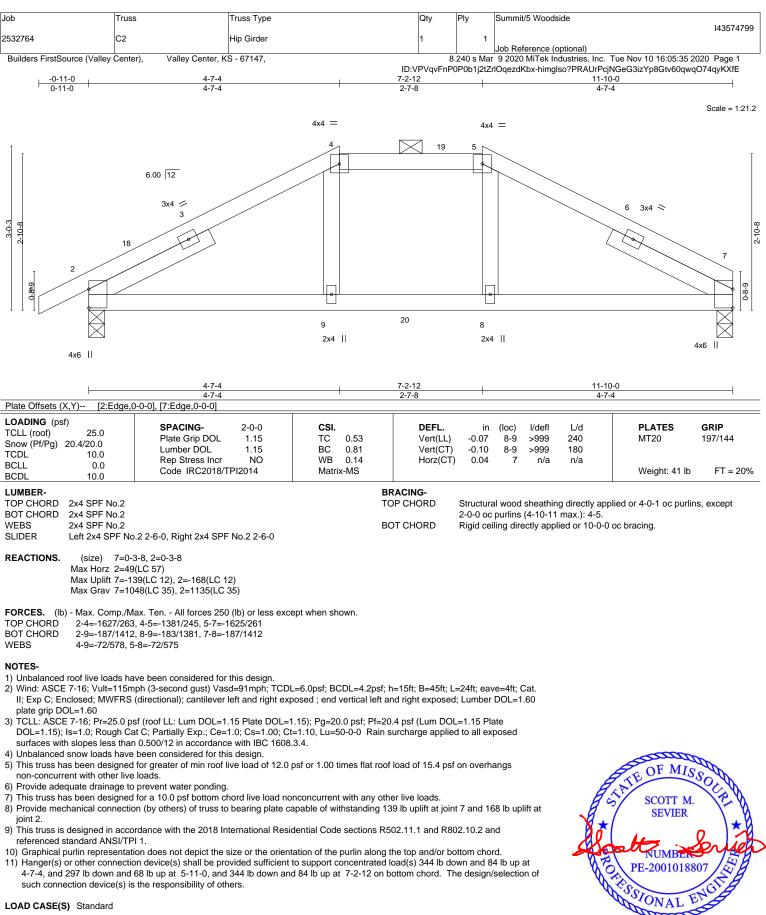
MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 6 and 72 lb uplift at joint 2.
- 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.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



16023 Swingley Ridge Rd Chesterfield, MO 63017



LOAD CASE(S) Standard

Continued on page 2

🔺 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see <u>ANS/TPH1</u> Quality Criteria, DSB-89 and BCSI Building Component
 Satisfies
 Ansi/TPH Qu

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

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

November 11,2020

Job	Truss	Truss Type	Qty	Ply	Summit/5 Woodside
					143574799
2532764	C2	Hip Girder	1	1	
					Job Reference (optional)
Builders FirstSource (Valley	Center), Valley Center, K	S - 67147,	8	.240 s Mar	9 2020 MiTek Industries, Inc. Tue Nov 10 16:05:35 2020 Page 2

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-himglso?PRAUrPcjNGeG3izYp8Gtv60qwqO74qyKXfE

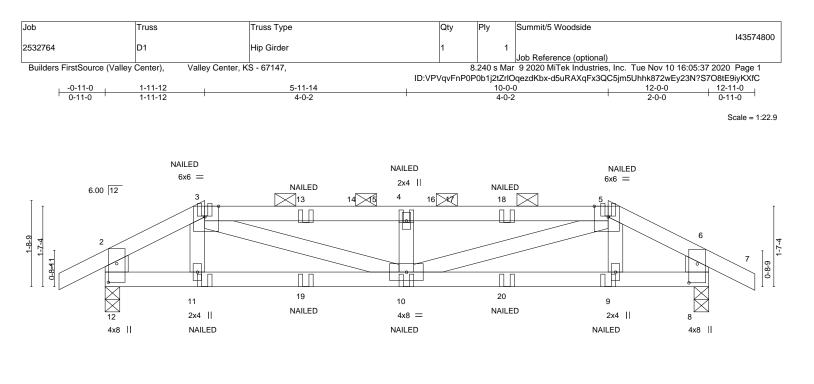
LOAD CASE(S) Standard 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-4=-51, 4-5=-61, 5-7=-51, 10-14=-20

Concentrated Loads (lb)

Vert: 9=-344 8=-344 20=-297





10-0-0

	J-112 J-114			10-0-0				12-0-0	
				4-0-2			•	2-0-0	
Plate Offsets (X, Y) [3:0-3-5,	Edge], [5:0-3-5,Edge], [8:0-4-8,0-2-0],	12:0-4-7,0-2-0]							
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO	CSI. TC 0.41 BC 0.45 WB 0.21	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.06 -0.09 0.01	(loc) 10 10 8	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS						Weight: 45 lb	FT = 20%
BCDL 10.0									
LUMBER- TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2 * 2-12,6-8: 2x6 SP	•	ТС	RACING- OP CHORD OT CHORD	except er	nd verti	cals, and	2-0-0 oc p	pplied or 6-0-0 oc purlir vurlins (4-7-15 max.): 3- -0 oc bracing.	
Max Horz 12=- Max Uplift 12=-	0-3-8, 8=0-3-8 44(LC 10) 80(LC 12), 8=-80(LC 12) 301(LC 2), 8=601(LC 2)								
TOP CHORD 2-3=-701/54, 3 BOT CHORD 11-12=-30/588	lax. Ten All forces 250 (lb) or less ex 3-4=-1404/116, 4-5=-1404/116, 5-6=-7(3, 10-11=-34/594, 9-10=-27/600, 8-9=-2 4-10=-437/82, 5-10=-73/846)8/54, 2-12=-487/75, 6-8=	-489/75						
 2) Wind: ASCE 7-16; Vult=115n II; Exp C; Enclosed; MWFRS plate grip DOL=1.60 3) TCLL: ASCE 7-16; Pr=25.0 p DOL=1.15); Is=1.0; Rough C; surfaces with slopes less that 4) Unbalanced snow loads have 		kposed ; end vertical left a =1.15); Pg=20.0 psf; Pf=20 Ct=1.10, Lu=50-0-0 Rain s 8.3.4.	nd right exposed).4 psf (Lum DOI surcharge applie	l; Lumber I _=1.15 Pla d to all exp	DOL=1. te bosed			THE OF MIS	SOL
 This truss has been designed Provide mechanical connectinities Provide mechanical connectinities This truss is designed in accorreferenced standard ANSI/TF Graphical purlin representat "NAILED" indicates 3-10d (00000000000000000000000000000000000	for a 10.0 psf bottom chord live load r on (by others) of truss to bearing plate ordance with the 2018 International Res 1 1. ion does not depict the size or the orie 0.148"x3") or 2-12d (0.148"x3.25") toe-	capable of withstanding 8(sidential Code sections R5 ntation of the purlin along nails per NDS guidlines.	0 lb uplift at joint 502.11.1 and R80 the top and/or bo)2.10.2 an	d	t at		SCOTT M. SEVIER NUMBER PE-20010188	ente
LOAD CASE(S) Standard	on, loads applied to the face of the trus mber Increase=1.15, Plate Increase=1.		υαυκ (D <i>)</i> .				У	November 11	

1-11-12

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

5-11-14



November 11,2020

12-0-0

Job	Truss	Truss Type	Qty	Ply	Summit/5 Woodside
					143574800
2532764	D1	Hip Girder	1	1	
					Job Reference (optional)
Builders FirstSource (Va	KS - 67147,	8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Nov 10 16:05:37 2020 Page 2			

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-d5uRAXqFx3QC5jm5Uhhk872wEy23N?S7O8tE9iyKXfC

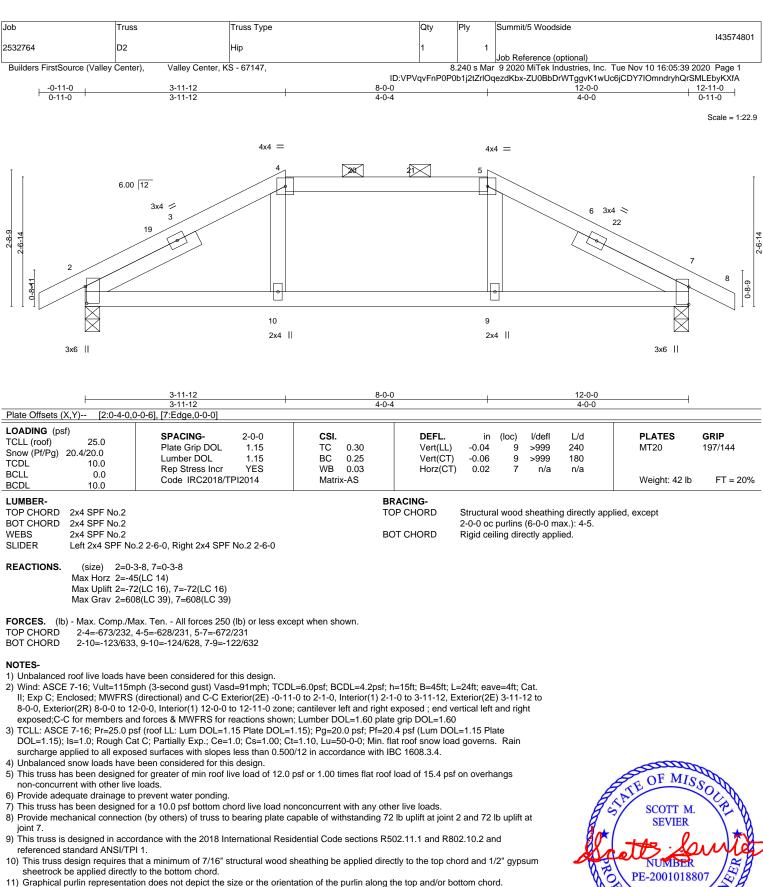
LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=-51, 2-3=-51, 3-5=-61, 5-6=-51, 6-7=-51, 8-12=-20 Concentrated Loads (lb)

Vert: 11=-5(F) 10=0(F) 9=-5(F) 19=0(F) 20=0(F)

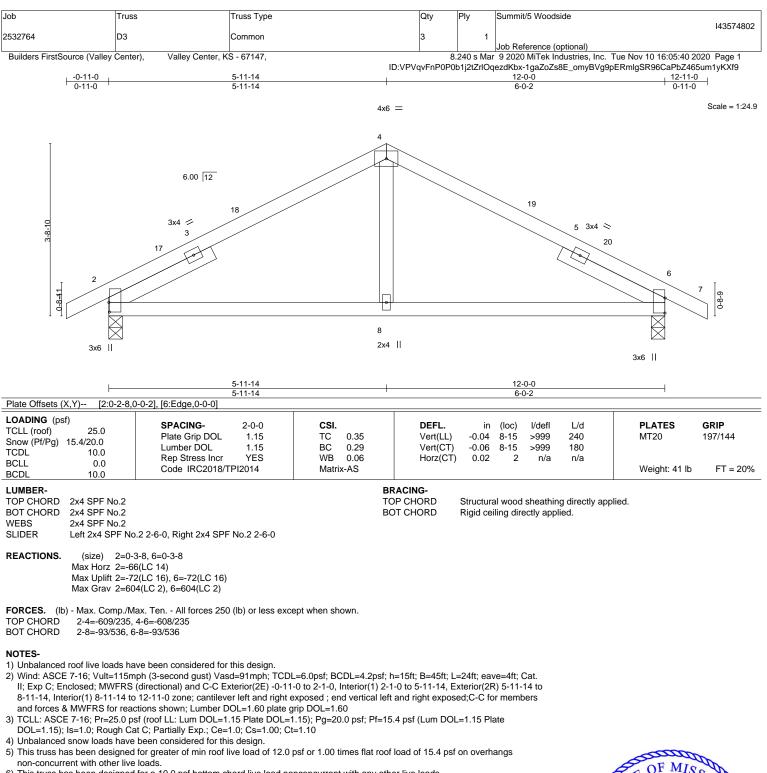






November 11,2020

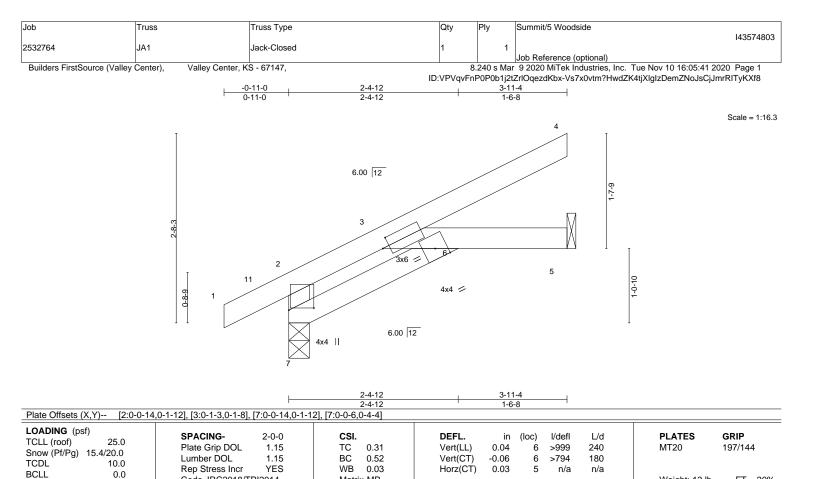
MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 72 lb uplift at joint 2 and 72 lb uplift at joint 6.
- 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.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



BRACING-

TOP CHORD

BOT CHORD

Matrix-MP

N	0	ΓF	S.

BCDL

WEBS

LUMBER-

BOT CHORD

REACTIONS.

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 1-10-15, Interior(1) 1-10-15 to 3-11-4 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.

(size) 7=0-3-8, 5=Mechanical

Max Uplift 7=-23(LC 16), 5=-58(LC 16) Max Grav 7=264(LC 2), 5=171(LC 2)

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

Max Horz 7=90(LC 16)

- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Code IRC2018/TPI2014

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

10.0

2x4 SPF No.2

2x4 SPF No.2

TOP CHORD 2x4 SPF No.2

- 7) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 7 and 58 lb uplift at joint 5
- 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.



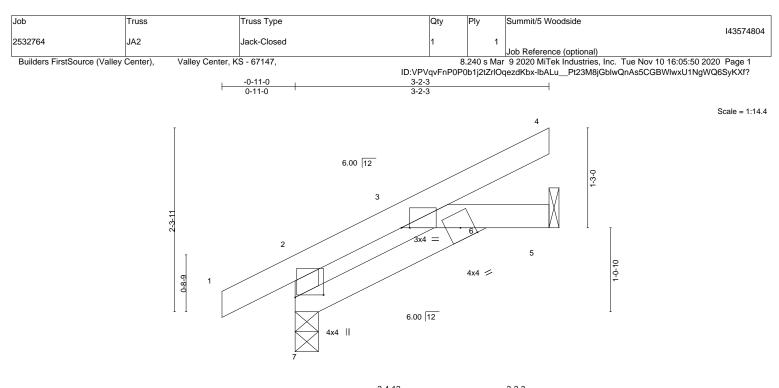
FT = 20%

Weight: 13 lb

Structural wood sheathing directly applied or 3-11-4 oc purlins.

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





0-9-7			
(loc) l/de 10 >99 10 >99 5 n/	9 240 9 180	PLATES MT20 Weight: 11 lb	GRIP 197/144 FT = 20%
			Weight: 11 lb

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2

REACTIONS. (size) 7=0-3-8, 5=Mechanical

Max Horz 7=74(LC 16) Max Uplift 7=-23(LC 16), 5=-42(LC 16) Max Grav 7=249(LC 21), 5=146(LC 21)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 1-10-15, Interior(1) 1-10-15 to 3-2-3 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- 7) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 7 and 42 lb uplift at joint 5.
- 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.

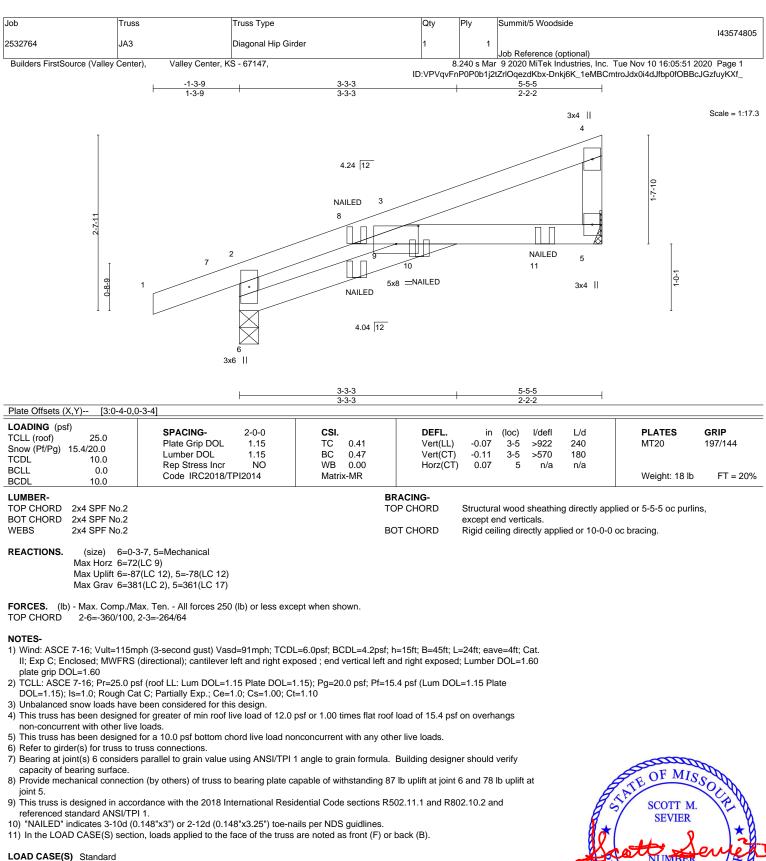


Structural wood sheathing directly applied or 3-2-3 oc purlins.

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



🛦 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MiTeK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-2=-51, 2-3=-51, 3-4=-51, 3-6=-20, 3-5=-20 Concentrated Loads (lb)

Vert: 9=1(B) 10=-39(F) 11=-125(B)



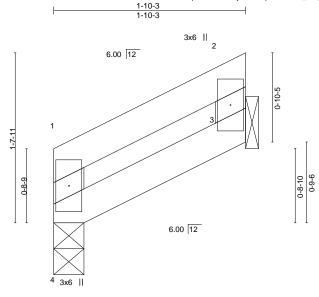
MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

🔺 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see <u>ANS/TPH1</u> Quality Criteria, DSB-89 and BCSI Building Component
 Satisfies
 Ansi/TPH Qu

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



8.240 s Mar 9 2020 Mi Lek Industries, Inc. Tue Nov 10 16:05:52 2020 Page 1 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-h_l6Jg?gPgJ3O1Q_sLSFFHAaN?GGOqRKrz?XAKyKXez



		<u>1-10-3</u> 1-10-3							
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.03 BC 0.02 WB 0.00 Matrix-MR	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.00 -0.00 -0.00	(loc) 4 4 3	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 6 lb	GRIP 197/144 FT = 20%

LUMBER-

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x4 SPF No.2

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 1-10-3 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-3-8, 3=Mechanical Max Horz 4=33(LC 13)

Max Uplift 3=-16(LC 13)

Max Grav 4=70(LC 2), 3=73(LC 27)

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

NOTES-

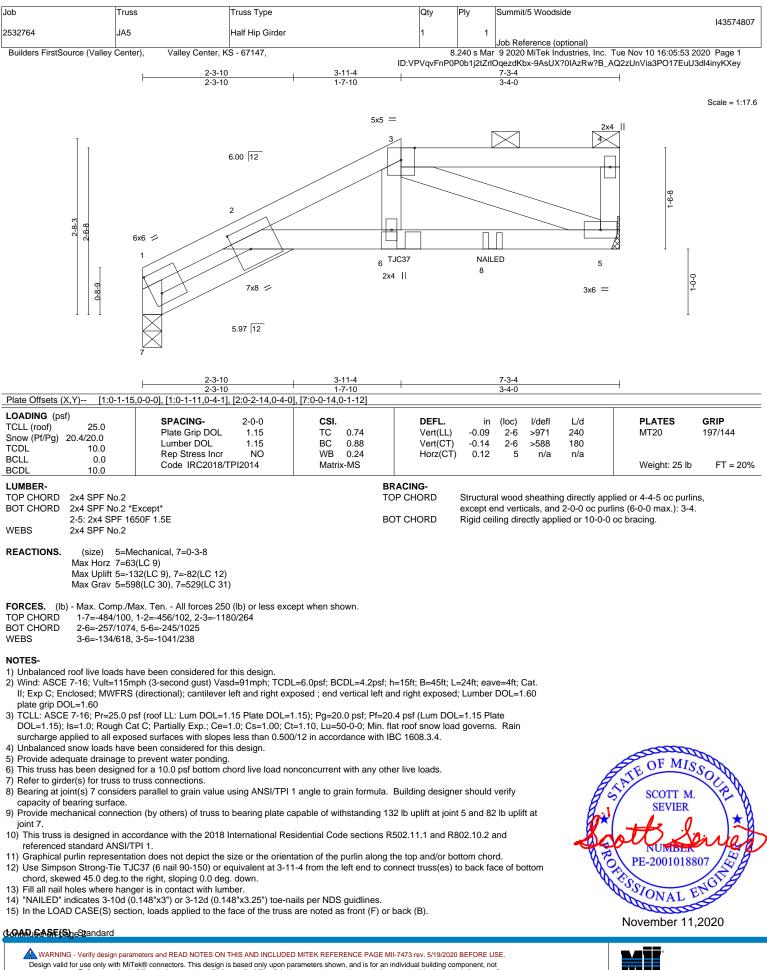
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 3.
- 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.



Scale = 1:11.1

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSITPTI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





beigh valid for use only with with with exercising is based only upon parameters shown, and is for an individual for upon 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 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 must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of property damage. For general guidance regarding the fabrication, storage, delivery, rection and bracing of trusses and truss systems, see **ANSUTPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

16023 Swingley Ridge Rd Chesterfield, MO 63017

MiTek

Job	Truss	Truss Type	Qty	Ply	Summit/5 Woodside
					143574807
2532764	JA5	Half Hip Girder	1	1	
					Job Reference (optional)
Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Nov 10 16:05:53 2020 Page 2					

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-9AsUX?0IAzRw?B_AQ2zUnVia3P017EuU3dl4inyKXey

LOAD CASE(S) Standard

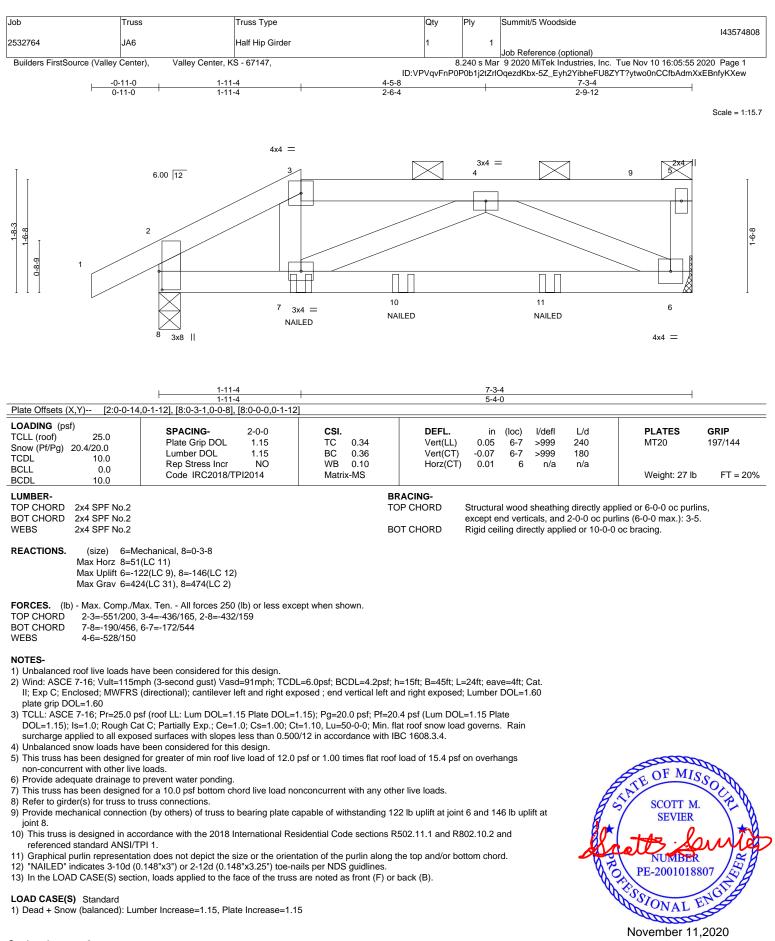
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-2=-51, 2-3=-51, 3-4=-61, 2-7=-20, 2-5=-20 Concentrated Loads (lb)

Vert: 6=-333(B) 8=-146(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/5 Woodside		
0500704	140				143574808		
2532764	JA6	Half Hip Girder	1	1	Job Reference (optional)		

Builders FirstSource (Valley Center), Valley Center, KS - 67147,

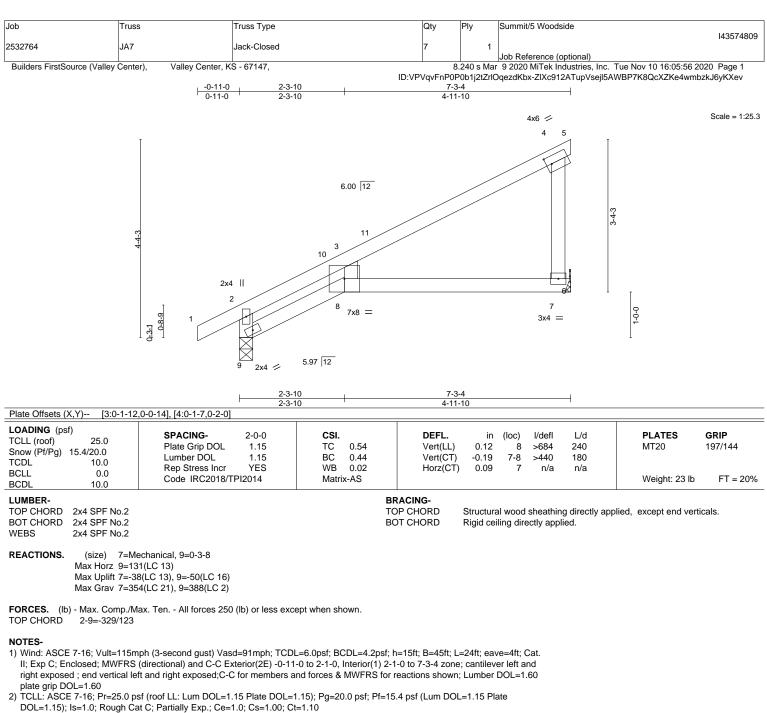
8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Nov 10 16:05:55 2020 Page 2 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-5Z_Eyh2YibheFU8ZYT?ytwo0nCCfbAdmXxEBnfyKXew

LOAD CASE(S) Standard

Uniform Loads (plf) Vert: 1-2=-51, 2-3=-51, 3-5=-61, 6-8=-20 Concentrated Loads (lb) Vert: 7=-70(F) 10=-40(F) 11=-40(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





Unbalanced snow loads have been considered for this design.

4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.

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

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

 Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 7 and 50 lb uplift at joint 9.

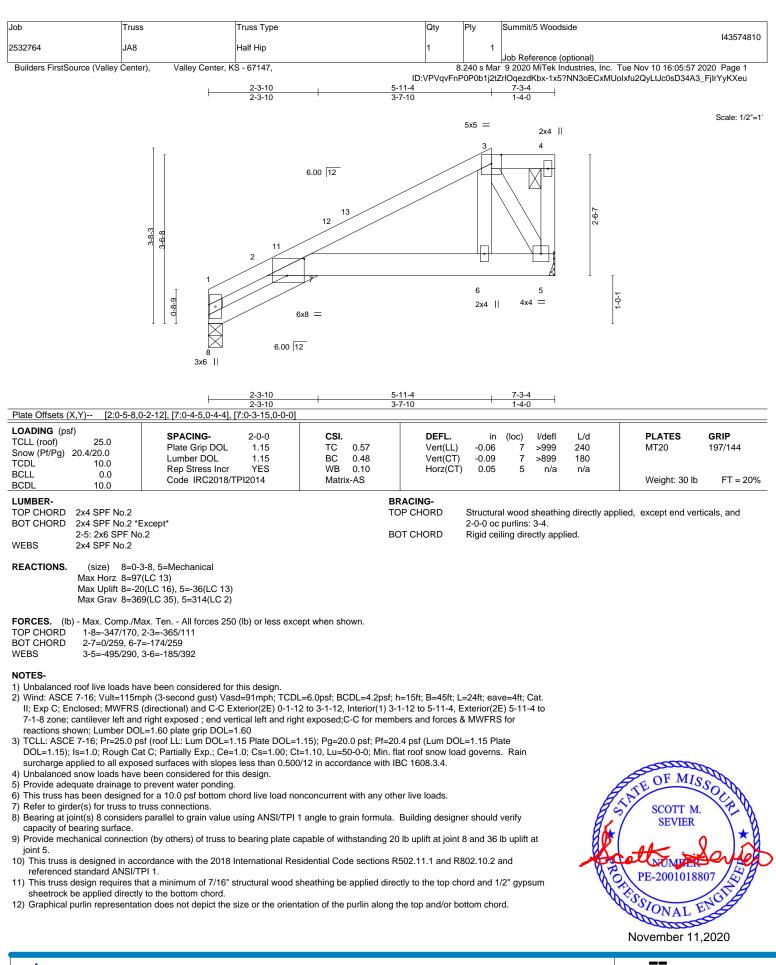
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



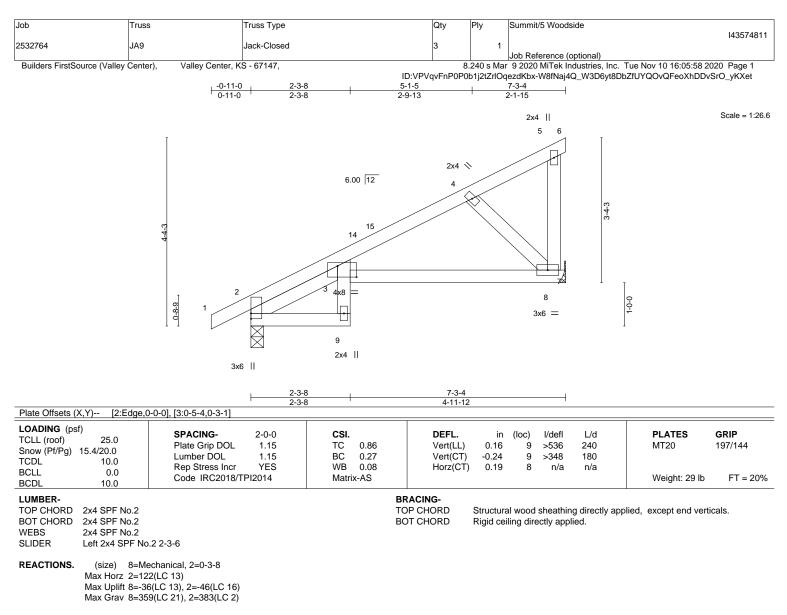


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designe. 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, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designe. 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 **ANSIVTPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Mitek° 16023 Swingley Ridge Rd Chesterfield, MO 63017



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

TOP CHORD 3-11=-617/342, 3-4=-331/117 BOT CHORD 3-8=-287/348

WEBS 4-8=-472/346

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-12, Interior(1) 2-1-12 to 7-3-4 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

3) Unbalanced snow loads have been considered for this design.

- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

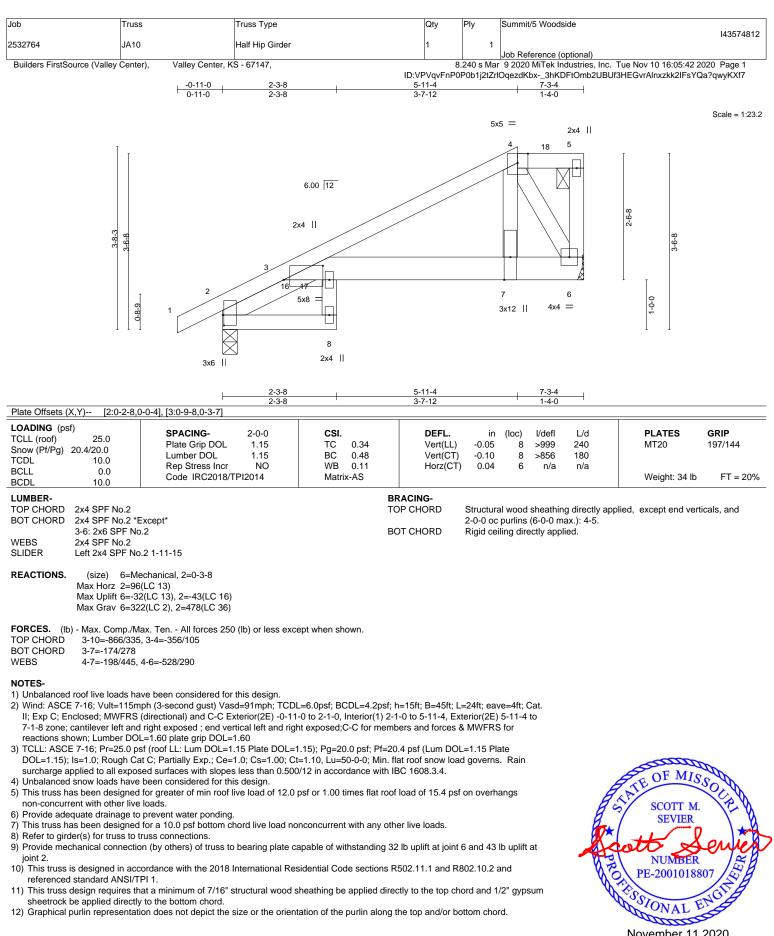
6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 8 and 46 lb uplift at joint 2.
- 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.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSITTPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

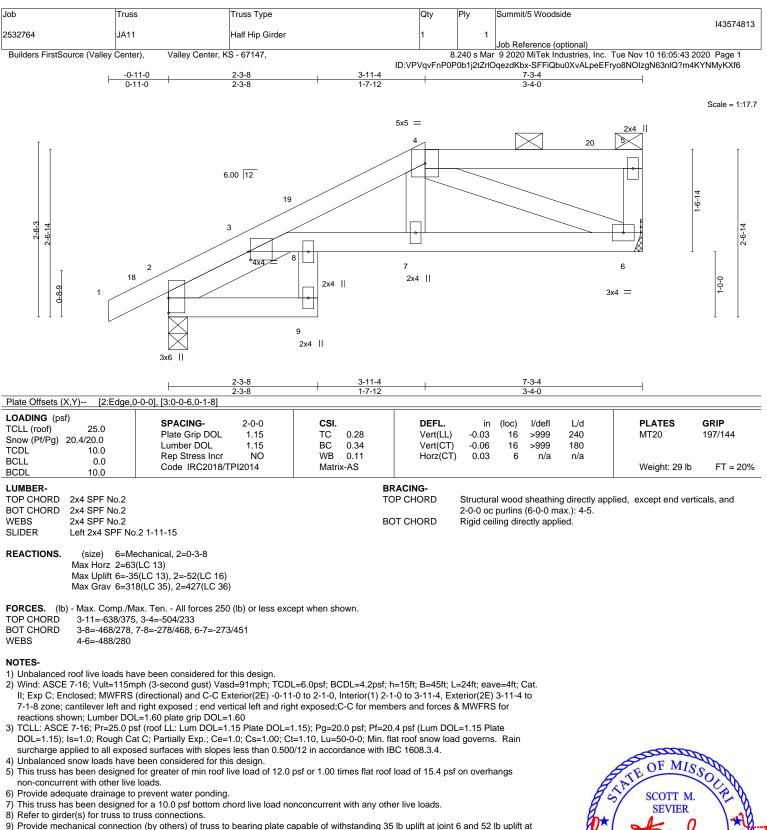


November 11,2020

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

🔺 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see <u>ANS/TPH1</u> Quality Criteria, DSB-89 and BCSI Building Component
 Satisfies
 Ansi/TPH Qu

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



joint 2. 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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



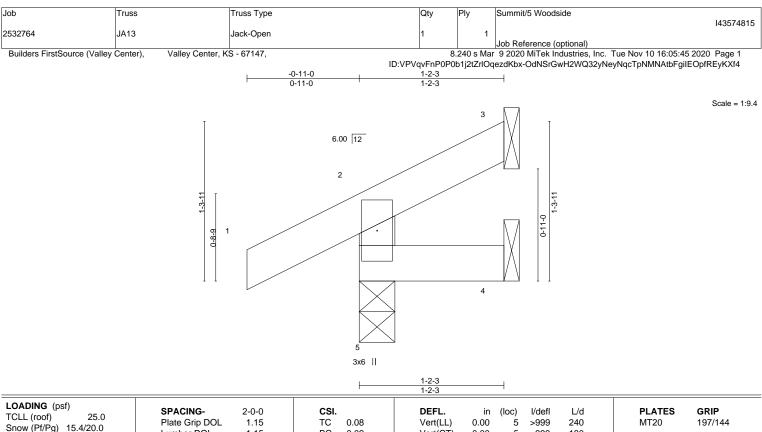
16023 Swingley Ridge Rd Chesterfield, MO 63017

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSITTPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Job	Truss	Truss Type	Qty Ply Summit/5	Woodside
2532764	JA12	Diagonal Hip Girder	1 1	143574814
Builders FirstSource (Va	illey Center), Valley Center	, KS - 67147,		ence (optional) iTek Industries, Inc. Tue Nov 10 16:05:44 2020 Page 1
	· · ·	-1-3-9	ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-wR 2-7-6	p4ewveHCICQooSOfJNwbr9mnSQWDS9?k36voyKXf5
		1-3-9	2-7-6	
				Scale = 1:11.
	Ī		3x4 ≠ NAILED	- TA
		4.24 1	2 3	
	1-7-11	2		
	6- 1 			\square
	Ġ			
				/ \/_\
			10 NAILED	5
		3x6		
	[0:0.0.0.0.4]		<u>2-7-6</u> 2-7-6	
Plate Offsets (X,Y)	[2:0-3-0,0-0-1]			
TCLL (roof) 25 Snow (Pf/Pg) 15.4/20.	0 Plate Grip DO		Vert(LL) -0.01 5-8 >	/defl L/d PLATES GRIP 999 240 MT20 197/144
TCDL 10		1.15 BC 0.34 cr NO WB 0.00	Vert(CT) -0.02 5-8 > Horz(CT) 0.01 2	999 180 n/a n/a
BCDL 10		8/TPI2014 Matrix-MP		Weight: 10 lb FT = 20%
LUMBER- TOP CHORD 2x4 SP	E No 2		BRACING- TOP CHORD Structural wood sh	eathing directly applied or 2-7-6 oc purlins.
BOT CHORD 2x4 SP				ly applied or 10-0-0 oc bracing.
	e) 2=0-4-9, 5=Mechanical			
Max H	orz 2=56(LC 12)	0)		
	plift 2=-58(LC 12), 5=-38(LC 1 rav 2=235(LC 17), 5=98(LC 1			
FORCES. (lb) - Max.	Comp./Max. Ten All forces	250 (lb) or less except when shown.		
TOP CHORD 2-4=-	198/338			
NOTES- 1) Wind: ASCE 7-16: V	ult=115mph (3-second gust) \	/asd=91mph: TCDI =6 0psf: BCDI =4 2t	osf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat	
	MWFRS (directional); cantilev		eft and right exposed; Lumber DOL=1.60	
2) TCLL: ASCE 7-16; F	Pr=25.0 psf (roof LL: Lum DOL	=1.15 Plate DOL=1.15); Pg=20.0 psf; P	f=15.4 psf (Lum DOL=1.15 Plate	
3) Unbalanced snow lo	Rough Cat C; Partially Exp.; C ads have been considered for	this design.		
non-concurrent with	other live loads.	of live load of 12.0 psf or 1.00 times flat		
	designed for a 10.0 psf botton truss to truss connections.	n chord live load nonconcurrent with any	v other live loads.	
7) Provide mechanical joint 5.	connection (by others) of trus	to bearing plate capable of withstandir	ng 58 lb uplift at joint 2 and 38 lb uplift at	
		International Residential Code section	s R502.11.1 and R802.10.2 and	TE OF MISSO
9) "NAILED" indicates	3-10d (0.148"x3") or 2-12d (0.	148"x3.25") toe-nails per NDS guidlines		SCOTT M.
,		ne face of the truss are noted as front (F) of back (B).	SEVIER
LOAD CASE(S) Stand 1) Dead + Snow (balar	dard iced): Lumber Increase=1.15,	Plate Increase=1.15		the the share
Uniform Loads (plf) Vert: 1-4=-5	1, 5-6=-20			NUMBER 120
Concentrated Loads Vert: 10=1((lb)			1 FE-200101880/ 2010
voit. 10-1(1	,			SIONAL ENG
				Constants
				November 11,2020
WARNING - Verify		ON THIS AND INCLUDED MITEK REFERENCE PA	GE MII-7473 rev. 5/19/2020 BEFORE USE	
		n is based only upon parameters shown, and is for the applicability of design parameters and proper		

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, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

16023 Swingley Ridge Rd Chesterfield, MO 63017



LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.08 BC 0.02 WB 0.00	DEFL. in (loc) I/defl L/d Vert(LL) 0.00 5 >999 240 Vert(CT) 0.00 5 >999 180 Horz(CT) -0.00 3 n/a n/a	PLATES GRIP MT20 197/144
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-MR		Weight: 4 lb FT = 20%

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x4 SPF No.2

BRACING-TOP CHORD

Structural wood sheathing directly applied or 1-2-3 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=48(LC 16) Max Uplift 5=-35(LC 16), 3=-9(LC 20), 4=-1(LC 13) Max Grav 5=159(LC 2), 3=11(LC 28), 4=16(LC 7)

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

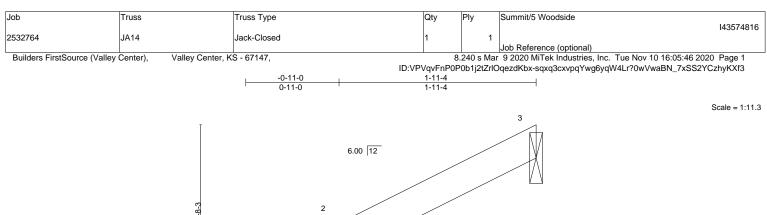
NOTES-

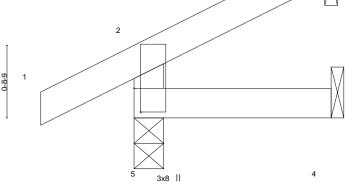
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 5, 9 lb uplift at joint 3 and 1 lb uplift at joint 4.
- 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.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSITPTI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601







		I.	1-11-4					
Plate Offsets (X,Y) [2:0-0-14,	0-1-12], [5:0-2-13,0-0-12], [5:0-0-0,0-1	-12]						
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 0.0/20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.22 BC 0.18 WB 0.00 Matrix-MR	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) 0.01 4-5 -0.00 4-5 0.00	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 6 lb	GRIP 197/144 FT = 20%
LUMBER- TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2			BRACING- TOP CHORD BOT CHORD	Structural woo except end ve Rigid ceiling d	rticals.	0 , 1	oplied or 1-11-4 oc p 0 oc bracing.	urlins,

1-11-4

REACTIONS. (size) 5=0-3-8, 4=Mechanical

Max Horz 5=78(LC 16) Max Uplift 5=-75(LC 16), 4=-53(LC 16)

Max Grav 5=182(LC 21), 4=60(LC 21)

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

NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=0.0 psf (Lum DOL=1.15 Plate DOL=1.15); ls=1.0; Rough Cat C; Partially Exp; Ce=1.0; Cs=1.00; Ct=1.10

3) Unbalanced snow loads have been considered for this design.

4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.

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

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 75 lb uplift at joint 5 and 53 lb uplift at joint 4.

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.



November 11,2020





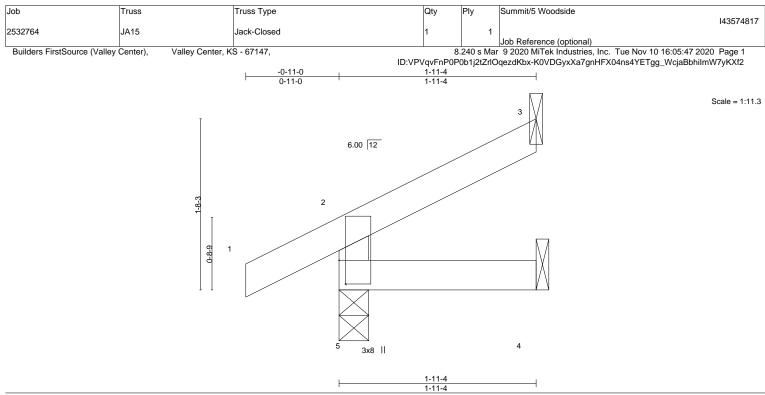


Plate Offsets (X,Y) [2:0-0-14	i,0-1-12], [5:0-2-13,0-0-12], [5:0-0-0,0-1	-12]						
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 0.0/20.0 TCDL 10.0 BCDL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.22 BC 0.18 WB 0.00 Matrix-MR	DEFL. Vert(LL) Vert(CT) Horz(CT)	0.01 4 -0.00 4	oc) l/defl 4-5 >999 4-5 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 6 lb	GRIP 197/144 FT = 20%
LUMBER- TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2		-	RACING- OP CHORD	Structural v except end		ng directly ap	pplied or 1-11-4 oc p	urlins,

BOT CHORD

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

BOT CHORD2x4 SPF No.2WEBS2x4 SPF No.2

REACTIONS. (size) 5=0-3-8, 4=Mechanical

Max Horz 5=78(LC 16) Max Uplift 5=-75(LC 16), 4=-53(LC 16) Max Grav 5=182(LC 21), 4=60(LC 21)

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

NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=0.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp; Ce=1.0; Cs=1.00; Ct=1.10

Unbalanced snow loads have been considered for this design.

4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.

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

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

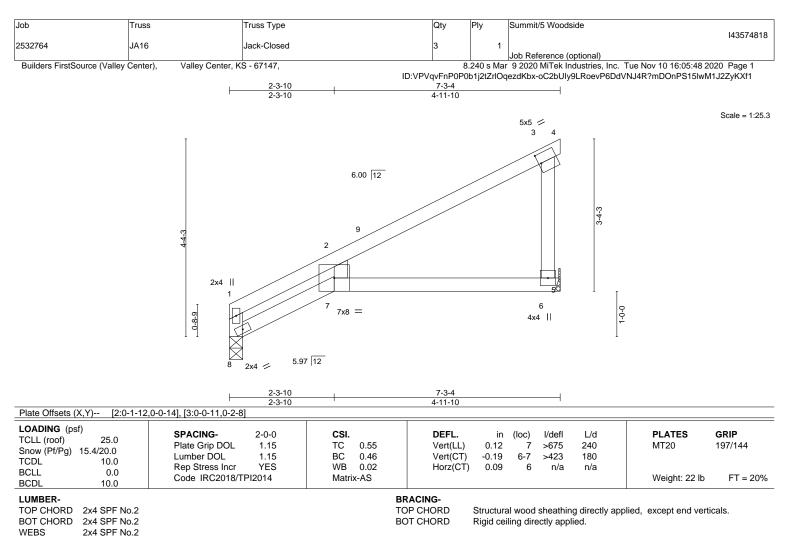
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 75 lb uplift at joint 5 and 53 lb uplift at joint 4.

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.



16023 Swingley Ridge Rd Chesterfield, MO 63017

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



REACTIONS. (size) 6=Mechanical, 8=0-3-8 Max Horz 8=123(LC 13)

Max Uplift 6=-38(LC 13), 8=-16(LC 16) Max Grav 6=358(LC 20), 8=308(LC 2)

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

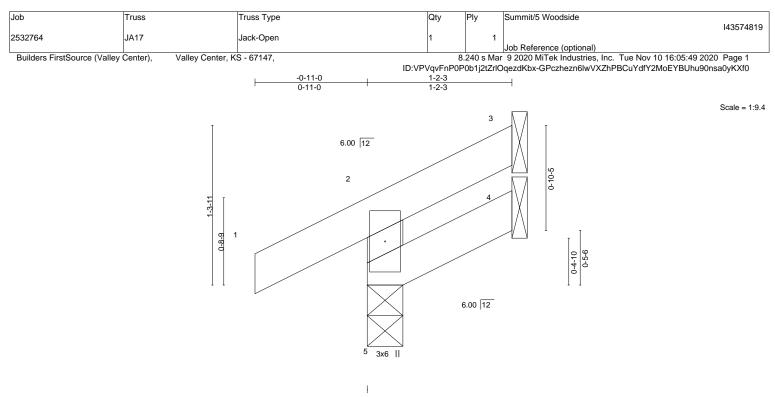
NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 7-3-4 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 6 and 16 lb uplift at joint 8.
- 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.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designe. 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, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 PCUL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.08 BC 0.02 WB 0.00	Vert(CT) 0	0.00	oc) l/defl 5 >999 5 >999 3 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-MR	. ,				Weight: 5 lb	FT = 20%

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x4 SPF No.2

BRACING-TOP CHORD

Structural wood sheathing directly applied or 1-2-3 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=49(LC 16) Max Uplift 5=-33(LC 16), 3=-9(LC 20), 4=-2(LC 13) Max Grav 5=159(LC 2), 3=11(LC 28), 4=16(LC 7)

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

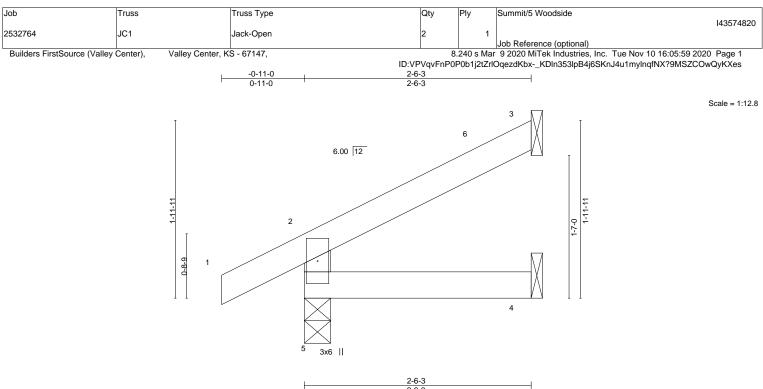
NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 5, 9 lb uplift at joint 3 and 2 lb uplift at joint 4.
- 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.



16023 Swingley Ridge Rd Chesterfield, MO 63017

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSITPTI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



		1	2-6-3			I			
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.08 BC 0.05 WB 0.00 Matrix-MR	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.00 -0.00 -0.00	(loc) 4-5 4-5 3	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 8 lb	GRIP 197/144 FT = 20%

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x4 SPF No.2

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 2-6-3 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=65(LC 16) Max Uplift 5=-30(LC 16), 3=-23(LC 16)

Max Grav 5=206(LC 21), 3=69(LC 21), 4=42(LC 7)

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

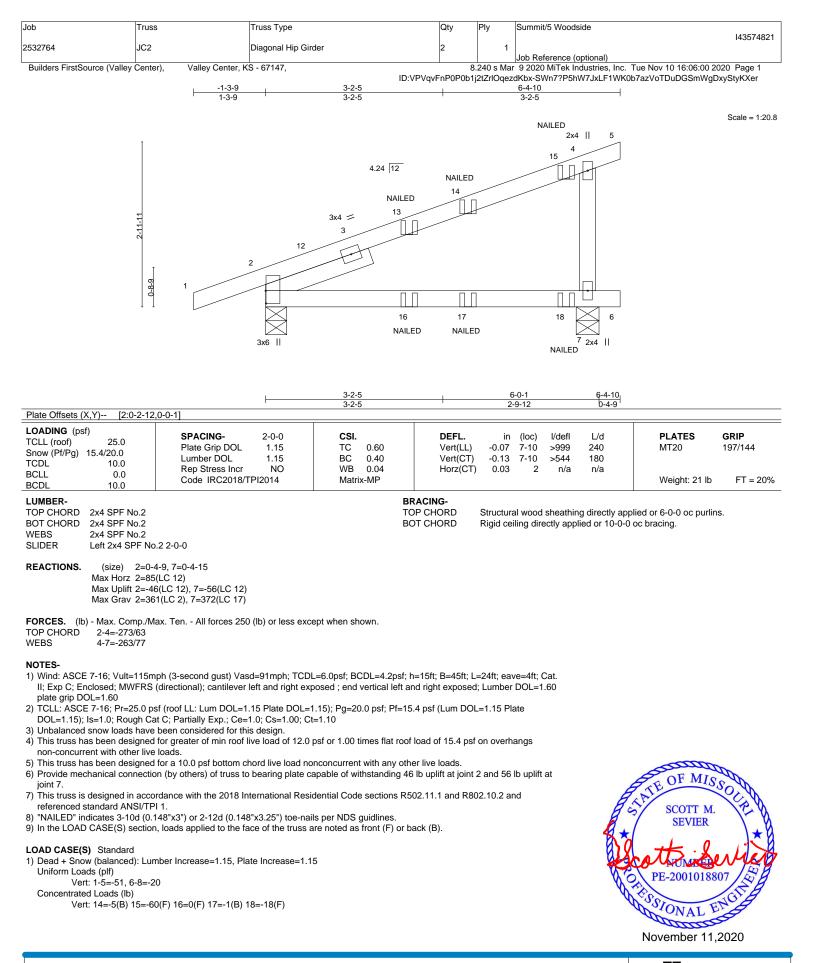
NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 2-5-7 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
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 5 and 23 lb uplift at joint 3.
- 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.



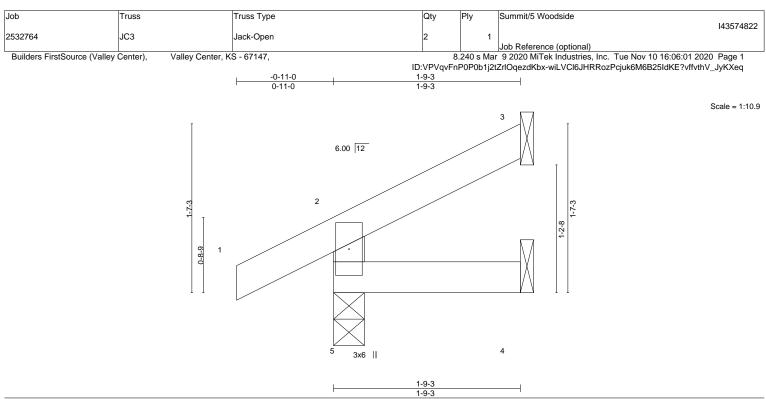
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSITTPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.08 BC 0.03 WB 0.00	DEFL. in (loc) l/defl L/d Vert(LL) -0.00 5 >999 240 Vert(CT) -0.00 5 >999 180 Horz(CT) -0.00 3 n/a n/a	PLATES GRIP MT20 197/144
BCLL 0.0 BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.00 Matrix-MR	Horz(CT) -0.00 3 n/a n/a	Weight: 6 lb FT = 20%

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x4 SPF No.2

BRACING-TOP CHORD

Structural wood sheathing directly applied or 1-9-3 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=56(LC 16) Max Uplift 5=-32(LC 16), 3=-14(LC 16)

Max Grav 5=175(LC 21), 3=38(LC 21), 4=28(LC 7)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

3) Unbalanced snow loads have been considered for this design.

4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.

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

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

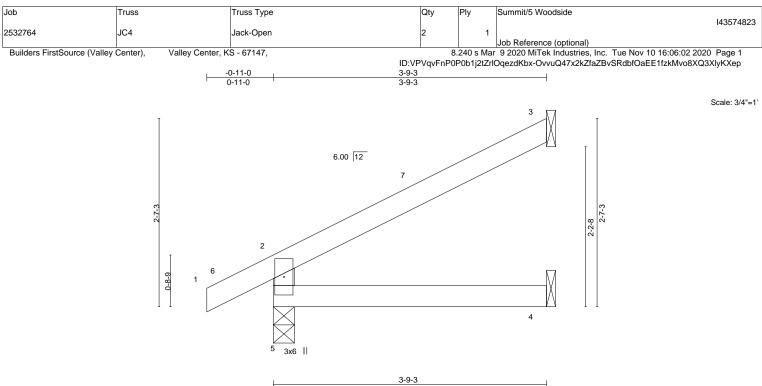
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 5 and 14 lb uplift at joint 3.

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.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





			3-9-3						
TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.19 BC 0.12 WB 0.00 Matrix-MR	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.01 -0.02 -0.01	(loc) 4-5 4-5 3	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 11 lb	GRIP 197/144 FT = 20%

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x4 SPF No.2

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 3-9-3 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=83(LC 16) Max Uplift 5=-29(LC 16), 3=-36(LC 16)

Max Grav 5=271(LC 21), 3=121(LC 21), 4=67(LC 7)

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

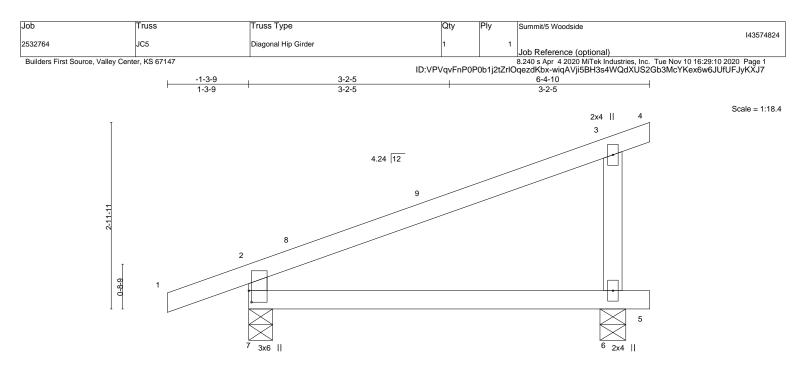
NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 3-8-7 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
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 5 and 36 lb uplift at joint 3.
- 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.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





		3-2-5 3-2-5		6-0-1 2-9-1			6-4-10 0-4-9	
Plate Offsets (X,Y) [2:0-0-10),0-1-12], [7:0-2-3,0-0-8], [7:0-0-0,0-1-12	2]						
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO	CSI. TC 0.54 BC 0.32 WB 0.04	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.05 6-7 -0.10 6-7 0.00	l/defl >999 >679 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0	Code IRC2018/TPI2014	Matrix-AS					Weight: 19 I	b FT = 20%

BCDL

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS

2x4 SPF No.2

10.0

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied, except end verticals. Rigid ceiling directly applied.

REACTIONS. (lb/size) 7=281/0-4-9, 6=234/0-4-15 Max Horz 7=96(LC 16)

Max Uplift 7=-50(LC 16), 6=-48(LC 16)

Max Grav 7=366(LC 2), 6=317(LC 21)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-7=-316/235

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) -1-3-9 to 2-11-6, Exterior(2R) 2-11-6 to 6-4-10 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 7 and 48 lb uplift at
- ioint 6. 7) 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.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

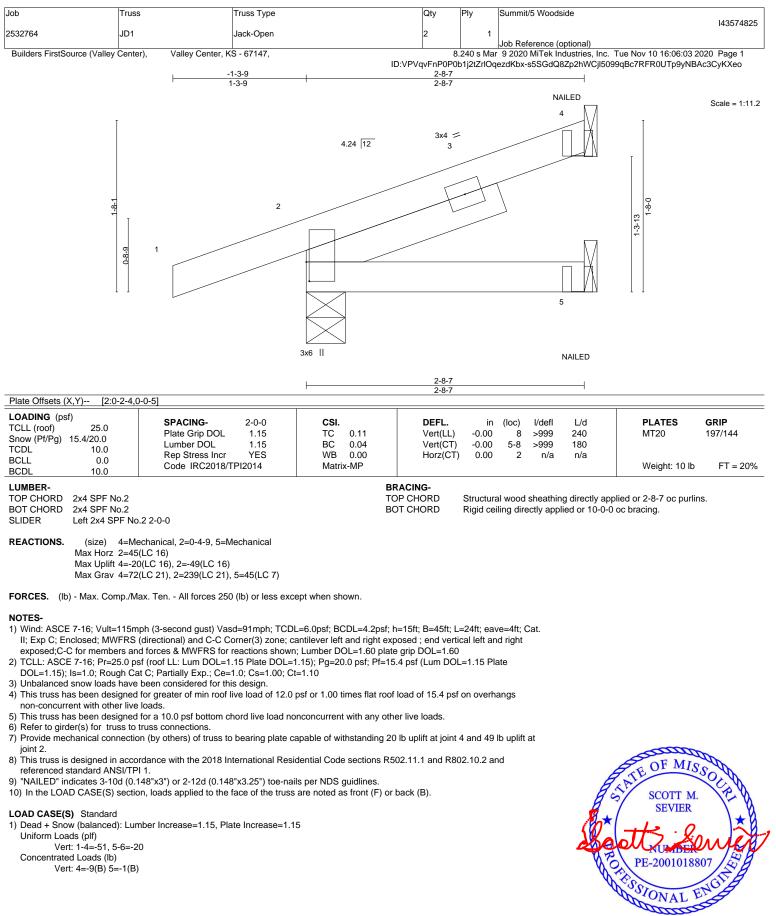


November 11,2020



🔺 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MTReK 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 quidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component
 Satisfies
 Ansi/TPH Qu

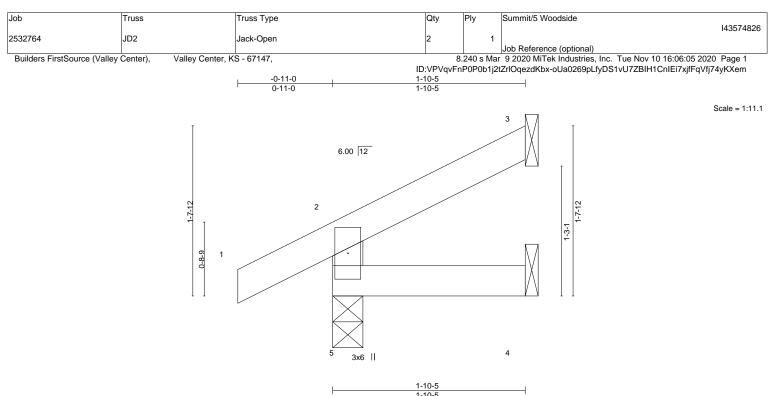
 Safety Information
 available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



November 11,2020



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



			I-10-0	
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 PCUL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.08 BC 0.03 WB 0.00	DEFL. in (loc) l/defl L/d Vert(LL) -0.00 5 >999 240 Vert(CT) -0.00 5 >999 180 Horz(CT) -0.00 3 n/a n/a	PLATES GRIP MT20 197/144
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-MR		Weight: 6 lb $FT = 20\%$

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2 BRACING-TOP CHORD BOT CHORD

except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

Structural wood sheathing directly applied or 1-10-5 oc purlins,

REACTIONS. 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=57(LC 16) Max Uplift 5=-32(LC 16), 3=-15(LC 16)

Max Grav 5=179(LC 21), 3=42(LC 21), 4=30(LC 7)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

3) Unbalanced snow loads have been considered for this design.

4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.

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

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

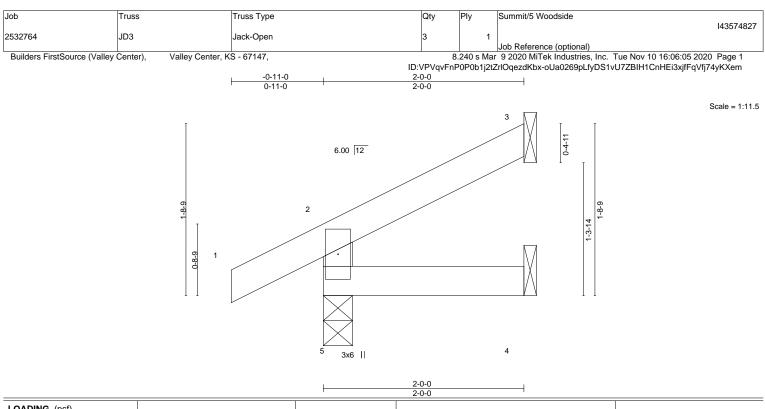
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 5 and 15 lb uplift at joint 3.

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.



🛦 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MiTeK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





LOADING (psf) SPACING- 2-0-0 TCLL (roof) 25.0 Plate Grip DOL 1.15 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 TCDL 10.0 Rep Stress Incr YES BCDL 10.0 Code IRC2018/TPI2014	CSI. DEFL. in TC 0.08 Vert(LL) -0.00 BC 0.03 Vert(CT) -0.00 WB 0.00 Horz(CT) -0.00 Matrix-MR Horz(CT) -0.00	5 >999 240 4-5 >999 180	PLATES GRIP MT20 197/144 Weight: 6 lb FT = 20%
---	---	----------------------------	--

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x4 SPF No.2

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 2-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=59(LC 16) Max Uplift 5=-31(LC 16), 3=-17(LC 16)

Max Grav 5=185(LC 21), 3=49(LC 21), 4=33(LC 7)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

3) Unbalanced snow loads have been considered for this design.

4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 5 and 17 lb uplift at joint 3.

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.



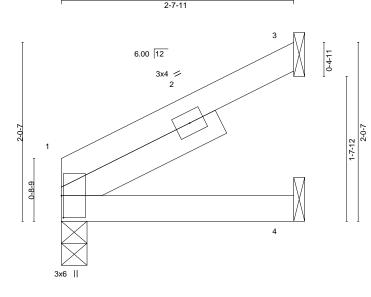
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSITPTI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

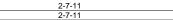




<u>2-7-</u>11







		2-1-11							
Plate Offsets (X,Y) [1:0-3-0	,0-0-4]								
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 DCUL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.09 BC 0.06 WB 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	-0.00	7	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP						Weight: 9 lb	FT = 20%
LUMBER-		BF	ACING-						

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 SLIDER Left 2x4 SPF No.2 2-0-0

REACTIONS.

Max Horz 1=36(LC 16)

Max Uplift 3=-26(LC 16)

Max Grav 1=118(LC 20), 3=83(LC 20), 4=44(LC 7)

(size) 1=0-3-8, 3=Mechanical, 4=Mechanical

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

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 3.

7) 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.

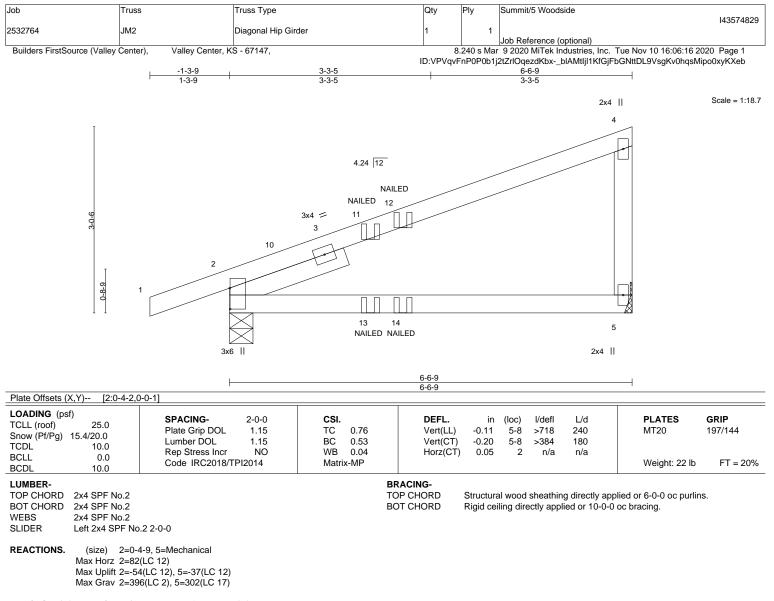


Structural wood sheathing directly applied or 2-7-11 oc purlins.

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

🛦 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MiTeK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-319/55

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 2 and 37 lb uplift at joint 5.
- 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.
- 9) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

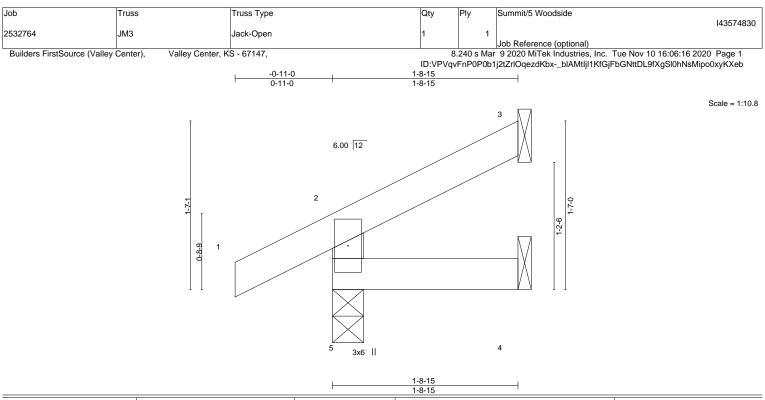
LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)
 - Vert: 1-4=-51, 5-6=-20
 - Concentrated Loads (lb)
 - Vert: 11=-12(B) 12=-20(F) 13=-11(B) 14=-4(F)



NITEK 16023 Swingley Ridge Rd Chesterfield, MO 63017

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSITTPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 DCUL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.08 BC 0.03 WB 0.00	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) -0.00 5 >999 240 MT20 197/144 Vert(CT) -0.00 5 >999 180 Horz(CT) -0.00 3 n/a n/a	
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-MR	Weight: 6 lb FT = 20	ጋ%

2x4 SPF No.2 TOP CHORD BOT CHORD 2x4 SPF No.2 WEBS

2x4 SPF No.2

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 1-8-15 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=55(LC 16) Max Uplift 5=-32(LC 16), 3=-14(LC 16)

Max Grav 5=175(LC 21), 3=37(LC 28), 4=28(LC 7)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

3) Unbalanced snow loads have been considered for this design.

4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.

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

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

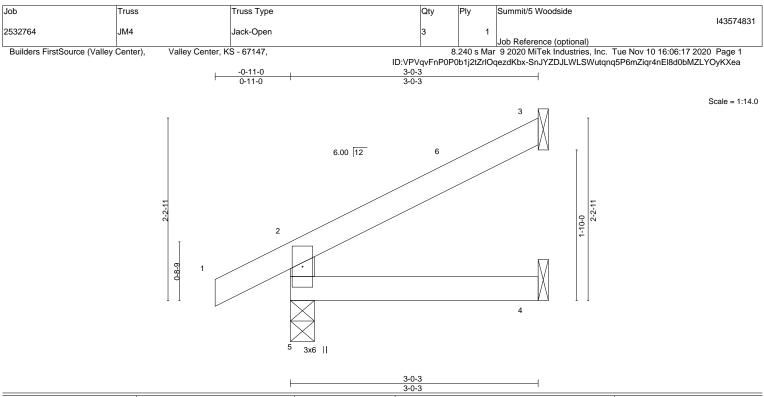
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 5 and 14 lb uplift at joint 3.

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.



🛦 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MiTeK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





			3-0-3						
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.11 BC 0.07 WB 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.00 -0.01 -0.00	(loc) 4-5 4-5 3	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MR						Weight: 9 lb	FT = 20%

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x4 SPF No.2

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 3-0-3 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=72(LC 16) Max Uplift 5=-30(LC 16), 3=-28(LC 16)

Max Grav 5=231(LC 21), 3=89(LC 21), 4=52(LC 7)

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

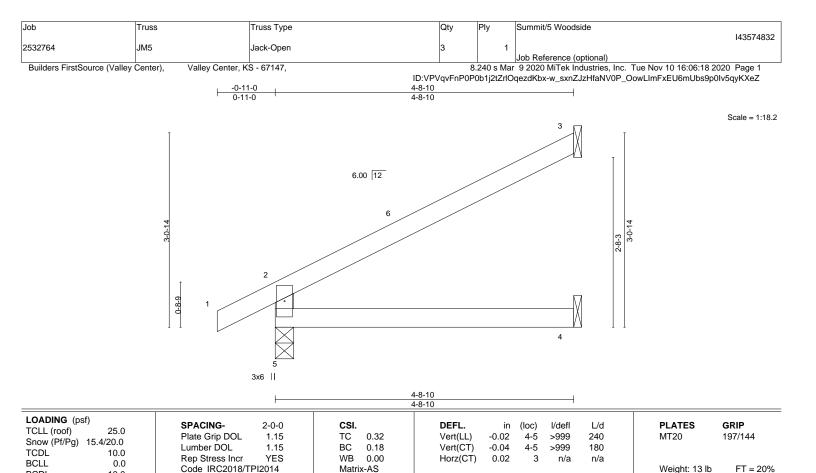
NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 2-11-7 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
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 5 and 28 lb uplift at joint 3.
- 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.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





LL	м	BB	ER	-
		-		

BCDL

TOP CHORD BOT CHORD WEBS

2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2

10.0

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied, except end verticals. Rigid ceiling directly applied.

REACTIONS. 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=96(LC 16) Max Uplift 5=-29(LC 16), 3=-45(LC 16) Max Grav 5=286(LC 2), 3=162(LC 21), 4=84(LC 7)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-251/154

NOTES-

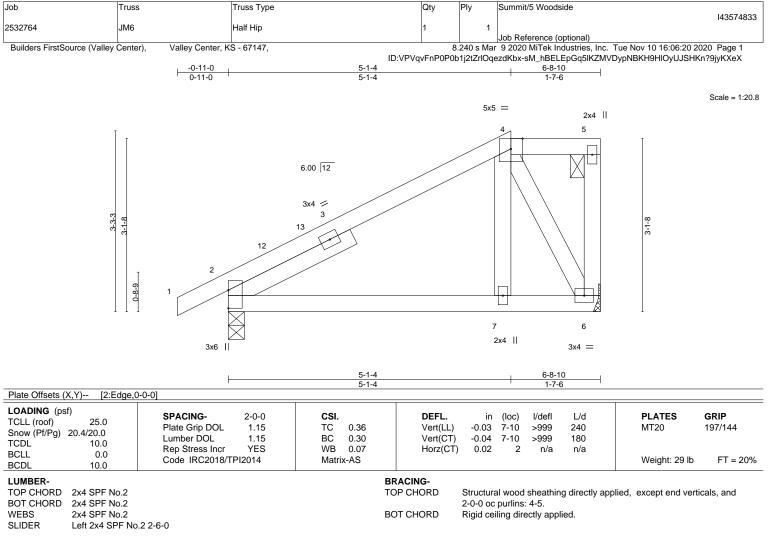
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 4-7-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 5 and 45 lb uplift at ioint 3.
- 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.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

🔺 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see <u>ANS/TPH1</u> Quality Criteria, DSB-89 and BCSI Building Component
 Satisfies
 Ansi/TPH Qu

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



REACTIONS. (size) 2=0-3-8, 6=Mechanical Max Horz 2=102(LC 15) Max Uplift 2=-51(LC 16), 6=-33(LC 13)

Max Grav 2=429(LC 36), 6=291(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 4-6=-332/200

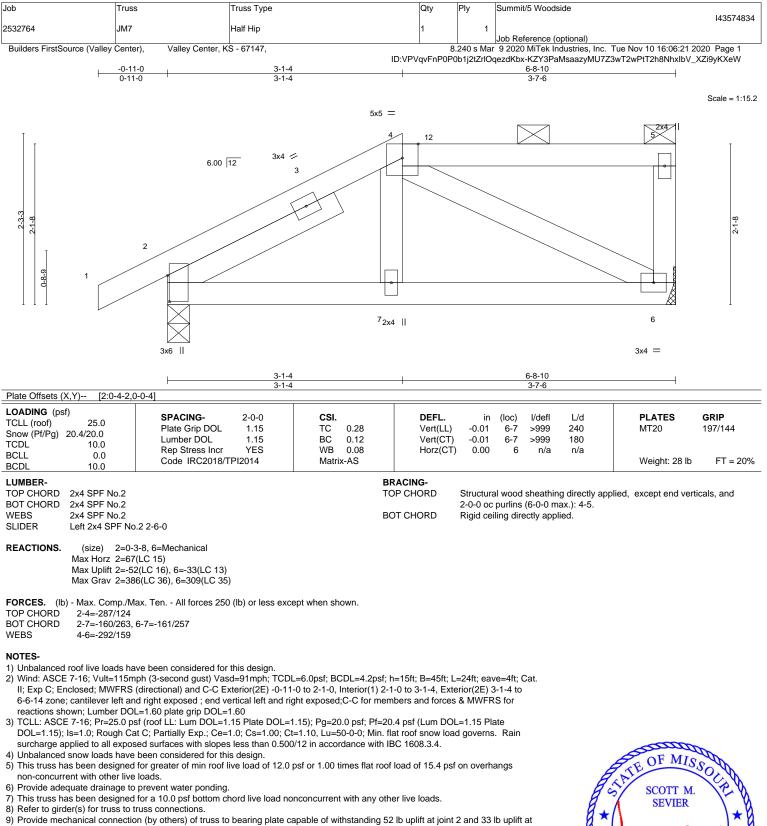
NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 5-1-4, Exterior(2E) 5-1-4 to 6-6-14 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 51 lb uplift at joint 2 and 33 lb uplift at joint 6.
- 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSITTPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



joint 6. 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.

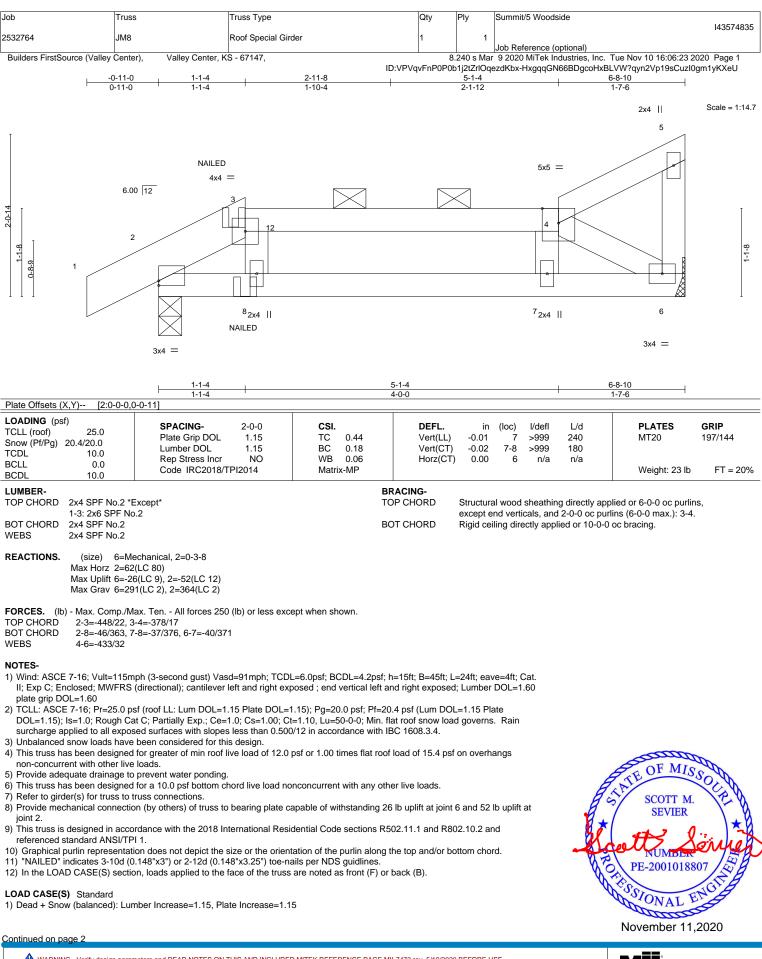
11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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



16023 Swingley Ridge Rd Chesterfield, MO 63017

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSITTPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Summit/5 Woodside
					143574835
2532764	JM8	Roof Special Girder	1	1	
					Job Reference (optional)
Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Nov 10 16:06:23 2020 Page 3					

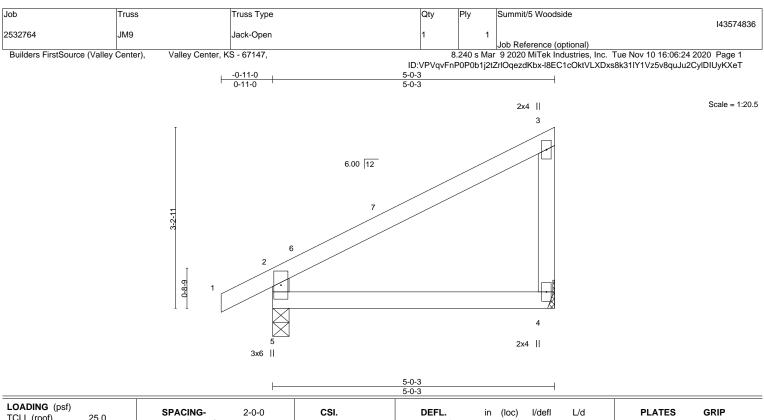
ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-HxgqqGN66BDgcoHxBLVW?qyn2Vp19sCuzl0gm1yKXeU

LOAD CASE(S) Standard

Uniform Loads (plf) Vert: 1-3=-51, 3-4=-61, 4-5=-51, 6-9=-20 Concentrated Loads (lb) Vert: 8=2(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.36 BC 0.20 WB 0.03	Vert(LL) -0.02 4-5 >	/defl L/d •999 240 •999 180 n/a n/a	PLATES MT20	GRIP 197/144
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS	- (-)		Weight: 17 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x4 SPF No.2 TOP CHORD BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2

5=0-3-8, 4=Mechanical REACTIONS. (size) Max Horz 5=99(LC 16) Max Uplift 5=-29(LC 16), 4=-38(LC 16) Max Grav 5=296(LC 21), 4=229(LC 21)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-259/155

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 4-10-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 5 and 38 lb uplift at joint 4.
- 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.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



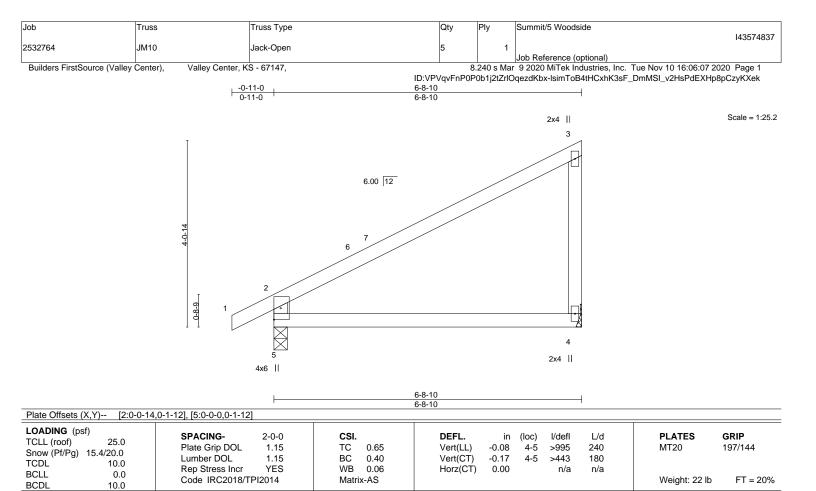
Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.



🔺 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MTReK 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 quidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component
 Satisfies
 Ansi/TPH Qu

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



BRACING-

TOP CHORD

BOT CHORD

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

(size) 5=0-3-8, 4=Mechanical Max Horz 5=122(LC 16)

Max Uplift 5=-28(LC 16), 4=-51(LC 16) Max Grav 5=370(LC 2), 4=309(LC 21)

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 6-6-14 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Refer to girder(s) for truss to truss connections.

LUMBER-

WEBS

BOT CHORD

REACTIONS.

TOP CHORD

TOP CHORD 2x4 SPF No.2

2x4 SPF No.2

2x4 SPF No.2

2-5=-317/165

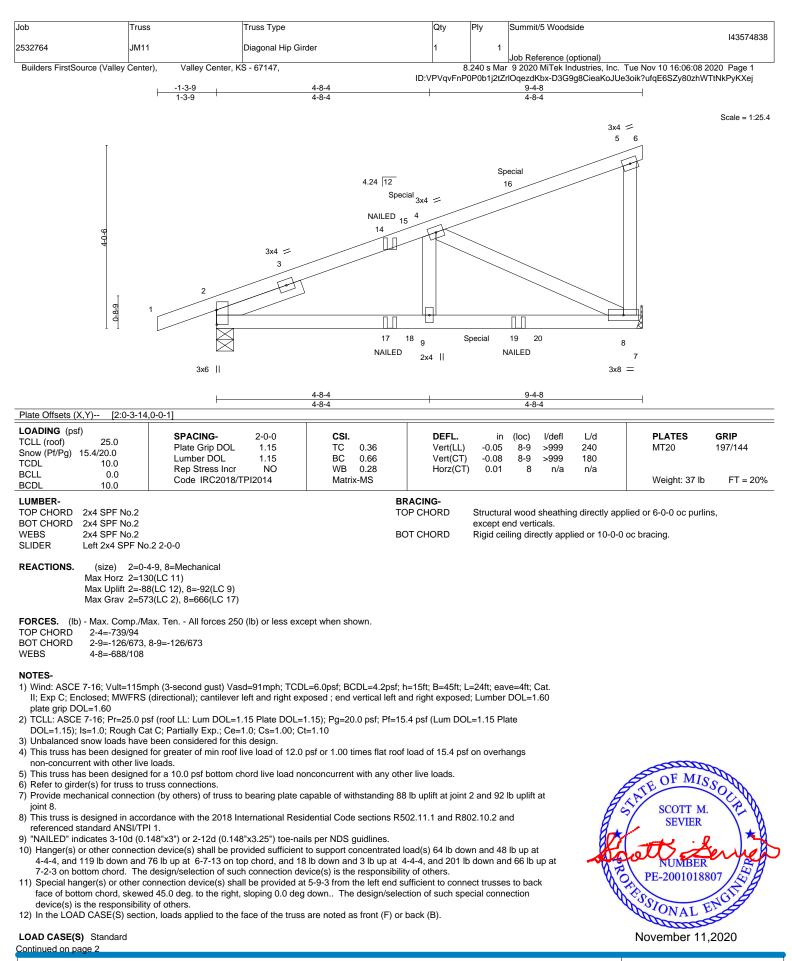
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 5 and 51 lb uplift at joint 4.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.







Job	Truss	Truss Type	Qty	Ply	Summit/5 Woodside
					143574838
2532764	JM11	Diagonal Hip Girder	1	1	
					Job Reference (optional)
Builders FirstSource (Valley	Center), Valley Center, K	S - 67147,	8	240 s Mar	9 2020 MiTek Industries, Inc. Tue Nov 10 16:06:09 2020 Page 2

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Nov 10 16:06:09 2020 Page 2 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-hFqXuUCKPuSfweDFMPFERtNPssvBtTDql7dwGryKXei

LOAD CASE(S) Standard

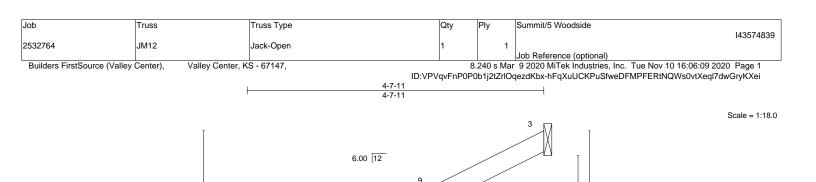
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

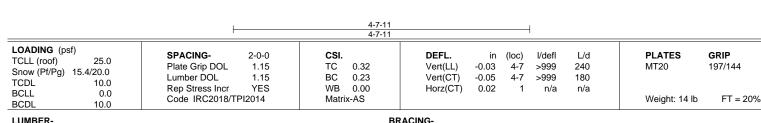
Uniform Loads (plf) Vert: 1-5=-51, 5-6=-51, 7-10=-20

Concentrated Loads (lb)

Vert: 14=-12(F) 15=-20(B) 16=-89(F) 17=-11(F) 18=-4(B) 19=-37(F) 20=-201(B)







TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2 BOT CHORD SLIDER Left 2x4 SPF No.2 2-0-0

3x4 💋

2

Structural wood sheathing directly applied. Rigid ceiling directly applied

л

3-0-7 2-7-12

REACTIONS. 1=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 1=63(LC 16) Max Uplift 3=-44(LC 16) Max Grav 1=225(LC 20), 3=160(LC 20), 4=82(LC 7)

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

5

0-8-9

3x6 Ш

NOTES-

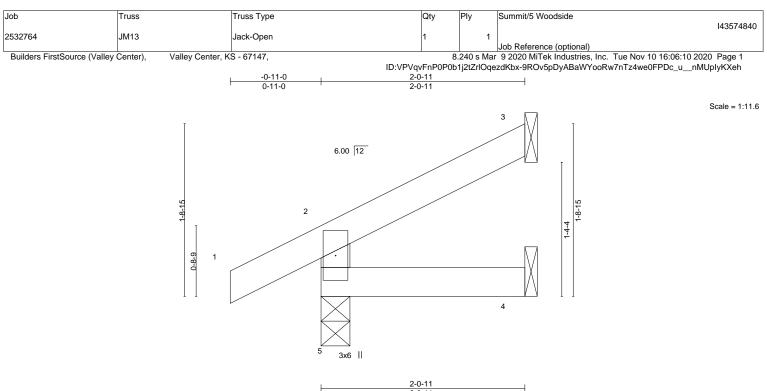
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 4-6-15 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 3.
- 7) 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.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



👠 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid to use only design parameters and READ NOTES ON THIS AND INCLUDED WITH REPORT PAGE MIT 475 164 (2010) and 164 (20
 Satisfies
 Ansi/TPH Qu

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





LOADING (psf) SPACING- 2-0-0 CSI. DEFL. TCLL (roof) 25.0 Plate Grip DOL 1.15 TC 0.08 Vert(LL) Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 BC 0.03 Vert(CT)	in -0.00	()		L/d 240	PLATES MT20	GRIP 197/144
TCDL10.0Rep Stress IncrYESWB0.00Horz(CT)BCLL0.0CodeIRC2018/TPI2014Matrix-MR	-0.00 -0.00	0 4-5	>999	180 n/a	Weight: 7 lb	FT = 20%

LUMBER-

2x4 SPF No.2 TOP CHORD BOT CHORD 2x4 SPF No.2 WEBS

2x4 SPF No.2

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 2-0-11 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=59(LC 16) Max Uplift 5=-31(LC 16), 3=-17(LC 16)

Max Grav 5=185(LC 21), 3=49(LC 21), 4=33(LC 7)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.

4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.

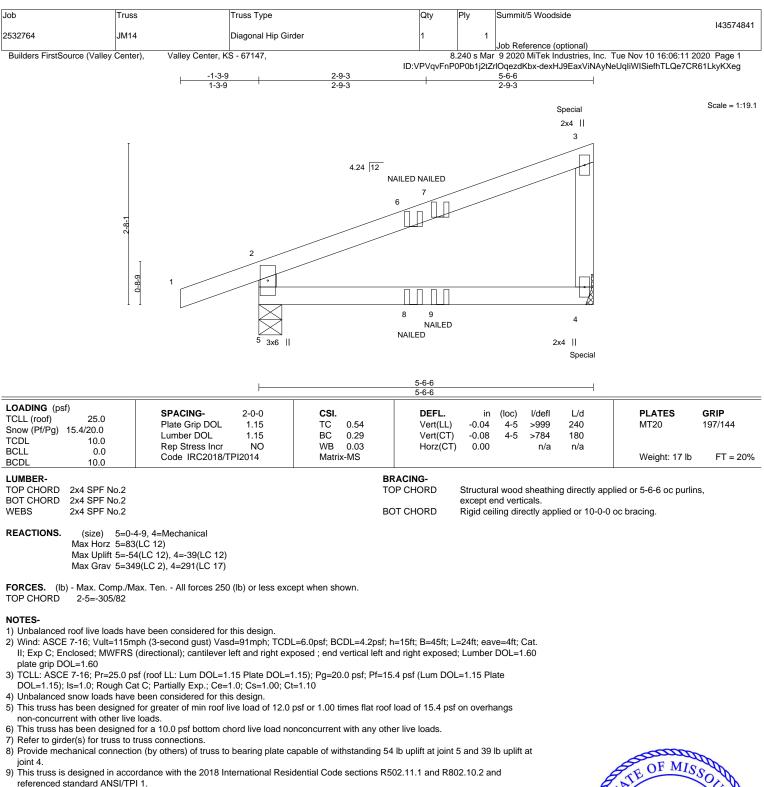
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 5 and 17 lb uplift at joint 3.

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.







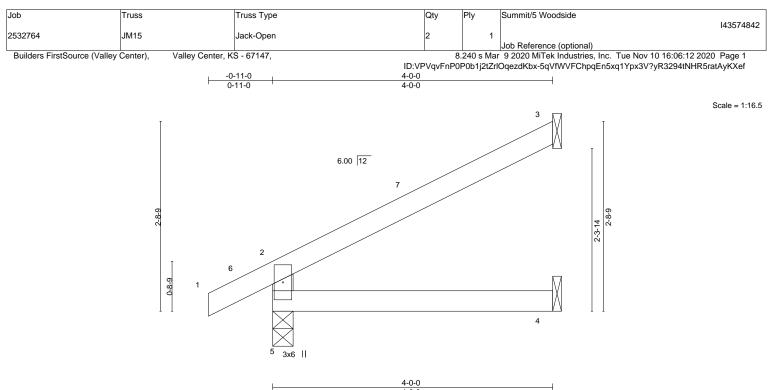
- 10) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 69 lb down and 45 lb up at 5-4-10 on top chord, and 24 lb down at 5-4-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

 Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-2=-51, 2-3=-51, 4-5=-20 Concentrated Loads (lb) Vert: 3=-53(B) 4=-16(B) 8=0(B) 9=0(F) SCOTT M. SEVIER PE-2001018807







	1		4-0-0					
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.21 BC 0.13 WB 0.00 Matrix-AS	DEFL. Vert(LL) Vert(CT) Horz(CT)	-0.01	oc) l/defl 4-5 >999 4-5 >999 3 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 11 lb	GRIP 197/144 FT = 20%
BCDL 10.0		Matrix / to					Weight. This	11 - 2070

LUMBER-

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x4 SPF No.2

TOP CHORD BOT CHORD

BRACING-

Structural wood sheathing directly applied, except end verticals. Rigid ceiling directly applied.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=86(LC 16) Max Uplift 5=-29(LC 16), 3=-38(LC 16) Max Grav 5=284(LC 21), 3=132(LC 21), 4=71(LC 7)

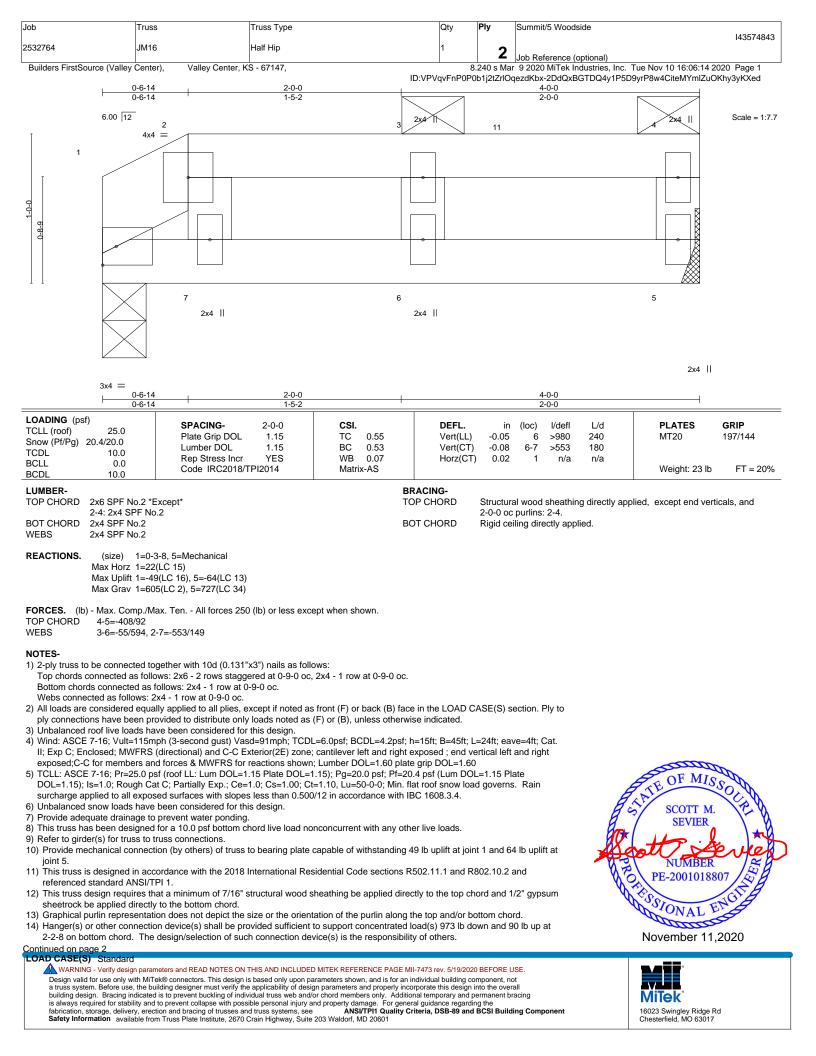
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-253/143

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 3-11-4 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
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 5 and 38 lb uplift at joint 3.
- 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.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.







Job		Truss	Truss Type	Qty	Ply	Summit/5 Woodside
						143574843
2532764		JM16	Half Hip	1	2	
					_	Job Reference (optional)
Builders	FirstSource (Valley (Center), Valley Center, K	S - 67147,	8	.240 s Ma	r 9 2020 MiTek Industries, Inc. Tue Nov 10 16:06:14 2020 Page 2

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Nov 10 16:06:14 2020 Page 2 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-2DdQxBGTDQ4y1P5D9yrP8w4CiteMYmlZuOKhy3yKXed

LOAD CASE(S) Standard

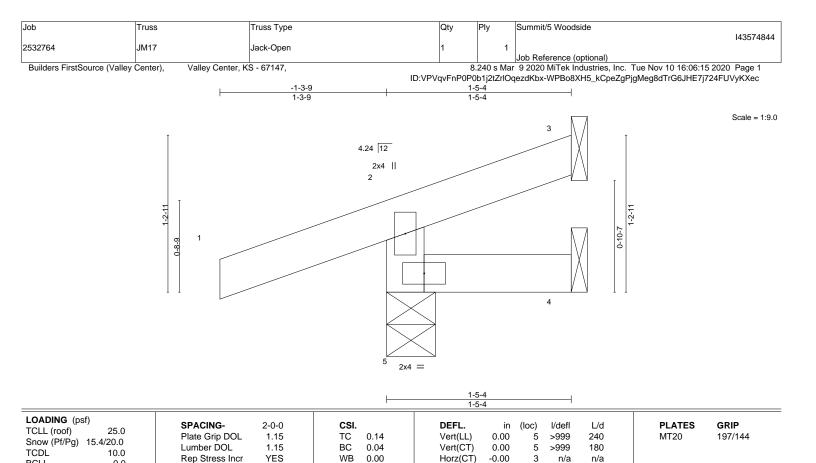
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-51, 2-4=-61, 5-8=-20 Concentrated Loads (lb)

Vert: 6=-938





BRACING-

TOP CHORD

BOT CHORD

Matrix-MR

NO.	TEC

BCLL

BCDL

WEBS

LUMBER-

TOP CHORD

BOT CHORD

REACTIONS.

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

3) Unbalanced snow loads have been considered for this design.

4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.

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

Code IRC2018/TPI2014

5=0-4-9, 3=Mechanical, 4=Mechanical

Max Uplift 5=-61(LC 16), 3=-15(LC 20), 4=-4(LC 2) Max Grav 5=215(LC 2), 3=7(LC 28), 4=19(LC 7) FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

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

0.0

10.0

2x4 SPF No 2

2x4 SPF No.2

2x4 SPF No.2

Max Horz 5=45(LC 16)

(size)

7) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 61 lb uplift at joint 5, 15 lb uplift at joint 3 and 4 lb uplift at joint 4.

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.



Weight: 5 lb

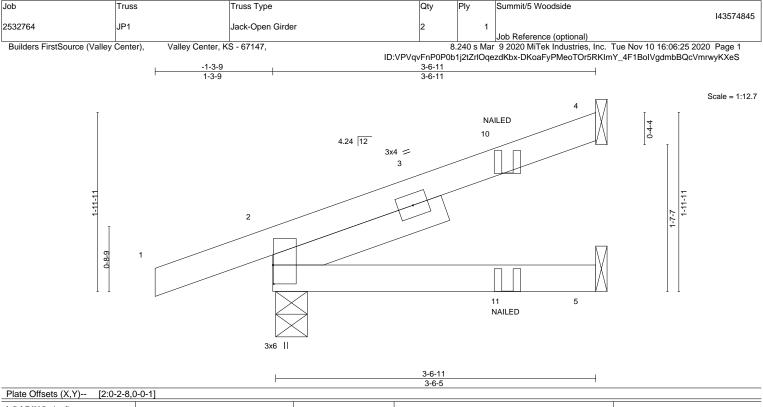
Structural wood sheathing directly applied or 1-5-4 oc purlins,

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

except end verticals.

FT = 20%

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



Snow (Pf/Pg) 15.4/20.0 Plate Grip DOL 1.15 TC 0.17 Vert(LL) -0.01 5-8 >999 240 TCDL 10.0 Lumber DOL 1.15 BC 0.10 Vert(CT) -0.01 5-8 >999 180 BCLL 0.0 Rep Stress Incr NO WB 0.00 Horz(CT) 0.00 2 n/a n/a	Weight: 12 lb	FT = 20%
		11 - 2070

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2SLIDERLeft 2x4 SPF No.2

IDER Left 2x4 SPF No.2 2-0-0

REACTIONS.

(size) 4=Mechanical, 2=0-4-3, 5=Mechanical Max Horz 2=54(LC 12) Max Uplift 4=-24(LC 12), 2=-48(LC 12)

Max Grav 4=105(LC 17), 2=280(LC 17), 5=59(LC 7)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 4 and 48 lb uplift at joint 2.
- 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.
- 9) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf) Vert: 1-4=-51, 5-6=-20 Concentrated Loads (lb)
 - Vert: 11=0(B)

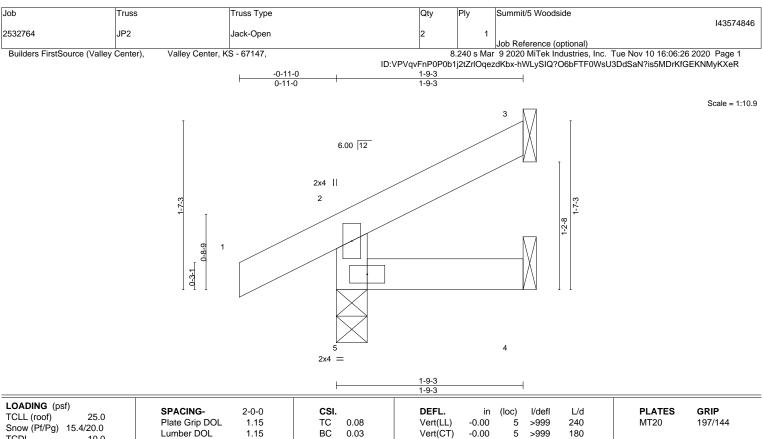


Structural wood sheathing directly applied or 3-6-11 oc purlins.

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

November 11,2020





COADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.08 BC 0.03 WB 0.00 Matrix-MR	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.00 -0.00 -0.00	(loc) 5 5 3	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 6 lb	GRIP 197/144 FT = 20%
LUMBER-		BR	ACING-						

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No 2 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2

WEBS

3=Mechanical, 4=Mechanical, 5=0-3-8 REACTIONS. (size) Max Horz 5=56(LC 16) Max Uplift 3=-14(LC 16), 5=-32(LC 16)

Max Grav 3=38(LC 21), 4=28(LC 7), 5=175(LC 21)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

3) Unbalanced snow loads have been considered for this design.

- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

- 7) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 3 and 32 lb uplift at ioint 5.
- 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.



Structural wood sheathing directly applied or 1-9-3 oc purlins,

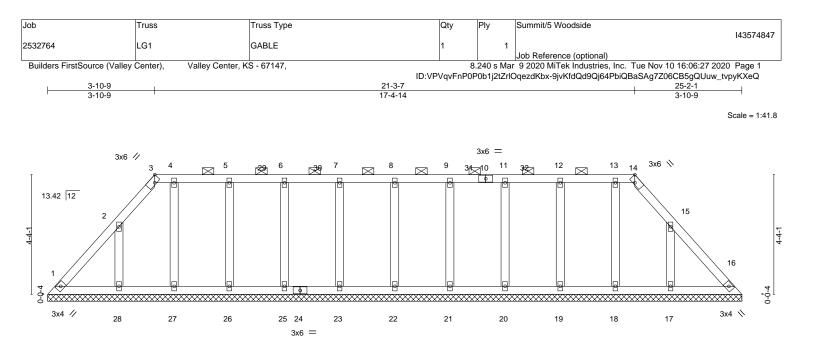
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

🗼 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid to use only design parameters and READ NOTES ON THIS AND INCLUDED WITH REPORT PAGE MIT 475 164 (2010) and 164 (20
 Satisfies
 Ansi/TPH Qu

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



		25-2-1						1
		25-2-1						
Plate Offsets (X,Y) [3:0-2-10,B	Edge], [14:0-2-10,Edge]							
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.06 BC 0.03 WB 0.04 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) n/a - n/a - 0.00 16	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 105 lb	GRIP 197/144 FT = 20%
BCDL 10.0	Code 11(C2010/11 12014	Wathx-5					Weight. 100 lb	11 = 2070
LUMBER-		BRA	ACING-					
TOP CHORD 2x4 SPF No.2		TOF	CHORD	Structural wood	d sheathin	g directly app	plied or 6-0-0 oc purlins	s, except
BOT CHORD 2x4 SPF No.2				2-0-0 oc purlins	s (6-0-0 m	ax.): 3-14.	•	-
OTHERS 2x4 SPF No.2		BOT	CHORD	Rigid ceiling di	rectly appl	ied or 10-0-0	oc bracing.	

			en detaran need en edaning an eeu) appned er e e e e pannie, eneept
BOT CHORD	2x4 SPF No.2		2-0-0 oc purlins (6-0-0 max.): 3-14.
OTHERS	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 25-2-1.

(lb) -Max Horz 1=-104(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 1, 22, 23, 25, 26, 28, 21, 20, 19, 17

All reactions 250 lb or less at joint(s) 1, 16, 22, 23, 25, 26, 27, 21, 20, 19, 18, 17 except Max Grav 28=252(LC 23)

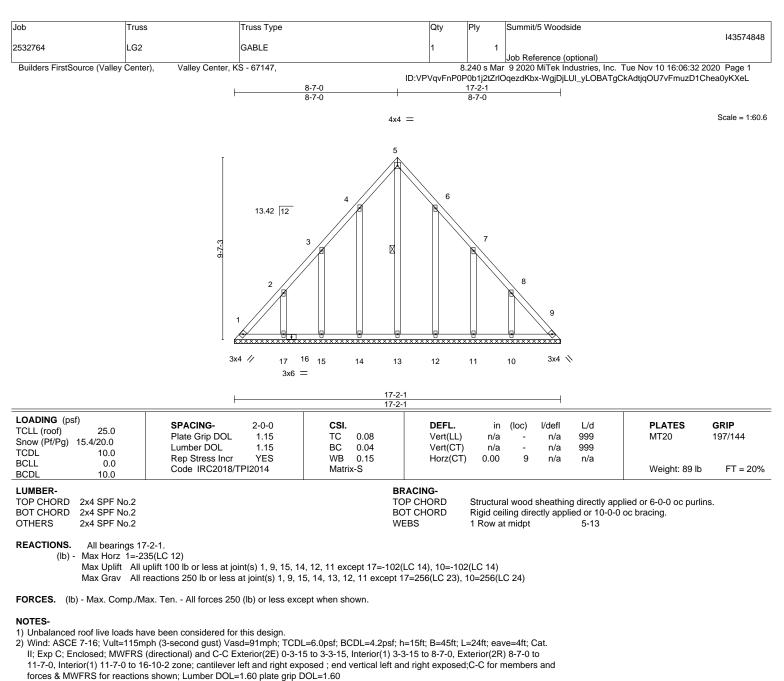
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-3-15 to 3-3-15, Interior(1) 3-3-15 to 3-10-9, Exterior(2R) 3-10-9 to 8-1-8, Interior(1) 8-1-8 to 21-3-7, Exterior(2E) 21-3-7 to 24-10-2 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 22, 23, 25, 26, 28, 21, 20, 19, 17.
- 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.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



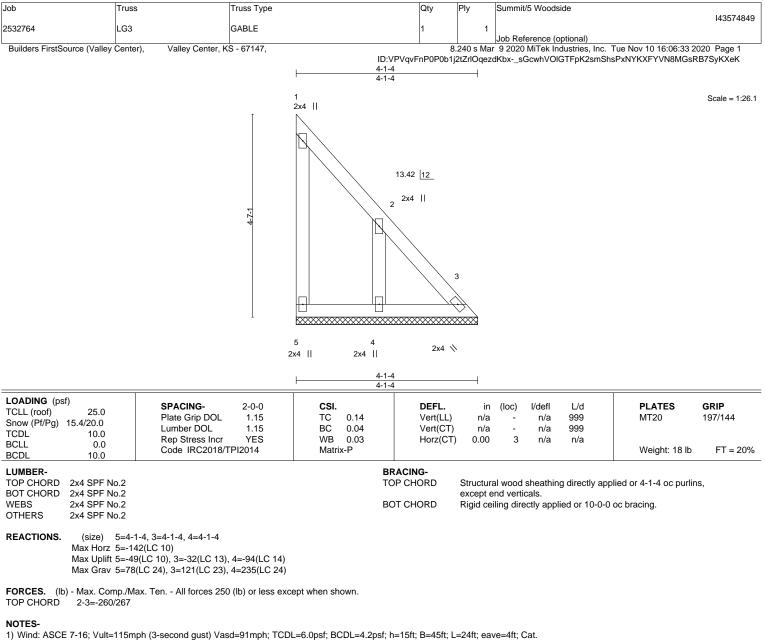




- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9, 15, 14, 12, 11 except (jt=lb) 17=102, 10=102.
- 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.



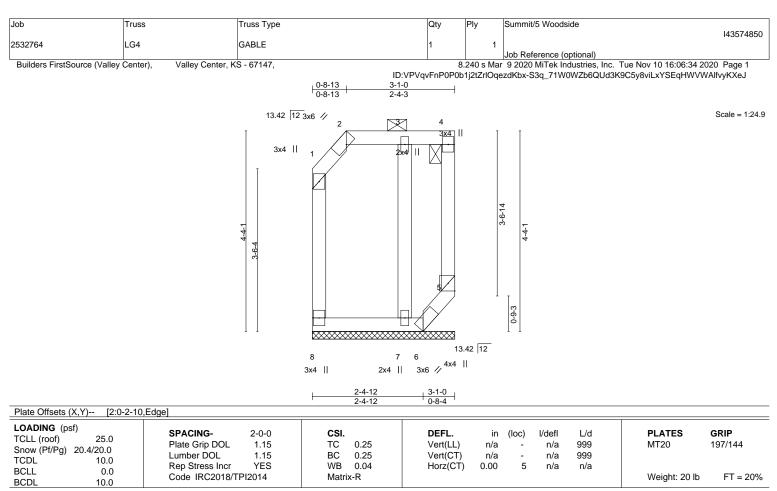




- II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right
- exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.
- 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.







LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 3-1-0 oc purlins,
BOT CHORD	2x4 SPF No.2		except end verticals, and 2-0-0 oc purlins: 2-4.
WEBS	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 8-8-3 oc bracing.
OTHERS	2x4 SPF No.2		

REACTIONS. All bearings 3-1-0.

Max Horz 8=123(LC 11) (lb) -

5-6=-418/432

Max Uplift All uplift 100 lb or less at joint(s) 8 except 5=-291(LC 11), 6=-316(LC 12), 7=-137(LC 11) Max Grav All reactions 250 lb or less at joint(s) 8, 7 except 5=271(LC 12), 6=338(LC 11)

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

BOT CHORD NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) 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
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 5=291, 6=316, 7=137.
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 5.
- 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.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



MiTek

16023 Swingley Ridge Rd Chesterfield, MO 63017

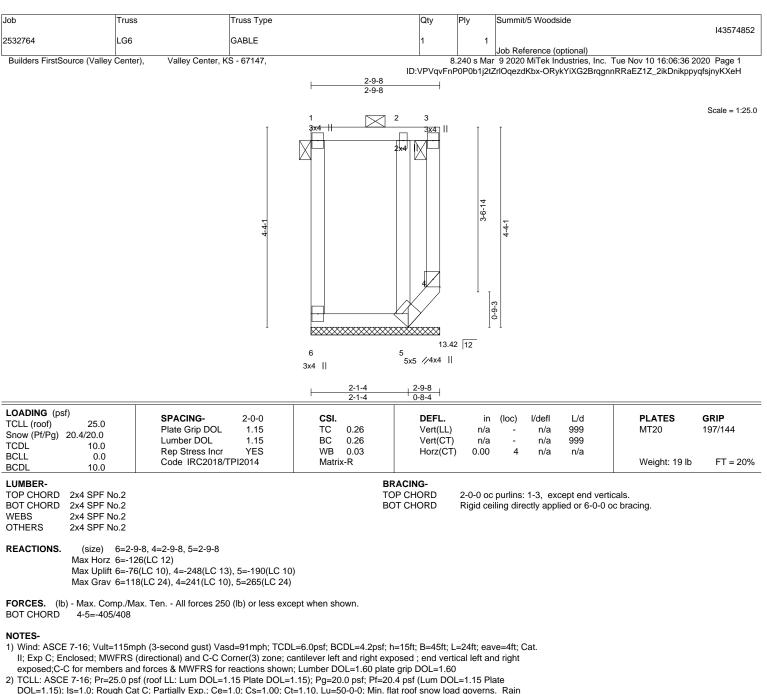
👠 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid to use only design parameters and READ NOTES ON THIS AND INCLUDED WITH REPORT PAGE MIT 475 164 (2010) and 164 (20
 Satisfies
 Ansi/TPH Qu

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

Job	Trus	ss Truss Type		Qty	Ply	Summit/5 Woodside	143574851
2532764	LG5	GABLE		1	1		
Builders FirstS	ource (Valley Cent	er), Valley Center, KS - 67147,					Tue Nov 10 16:06:35 2020 Page 1
			5-1-8		20P0b1j2t. ——	ZrlOqezdKbx-wFOMLNWeHtjz2e	eCFutjKUMStEKxozHlfjAwlBLyKXel
			5-1-8		1		
			2x4				Scale = 1:36.6
			1				
				40.40 \u00e9			
		5. 8 .12	2 2x	13.42 <u> 12</u> 4			
		ى ب		3			
				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	*		
			5 4	2x4 🖄			
			2x4    2x4				
			ł				
LOADING (ps	sf)						
TCLL (roof)	25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.24	DEFL. Vert(LL)	ir n/a		PLATES GRIP MT20 197/144
Snow (Pf/Pg) TCDL	10.0	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.05 WB 0.05	Vert(CT) Horz(CT			
BCLL BCDL	0.0 10.0	Code IRC2018/TPI2014	Matrix-P	11012(01	) 0.00	, 5 11/a 11/a	Weight: 23 lb FT = 20%
	2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2		тс	RACING- DP CHORD DT CHORD	except	ral wood sheathing directly ap end verticals. eiling directly applied or 10-0-0	
REACTIONS.	Max Horz 5=-1 Max Uplift 5=-6	-1-8, 3=5-1-8, 4=5-1-8 82(LC 10) ¥(LC 12), 3=-27(LC 13), 4=-124(LC 14) 1(LC 24), 3=167(LC 23), 4=312(LC 24)	4)				
FORCES. (Ib TOP CHORD BOT CHORD	o) - Max. Comp./N 2-3=-322/334	/lax. Ten All forces 250 (lb) or less e>					
WEBS	2-4=-292/216						
		nph (3-second gust) Vasd=91mph; TC ; (directional) and C-C Exterior(2E) 0-1					
plate grip D 2) TCLL: ASCI	OL=1.60 E 7-16; Pr=25.0 p	eft and right exposed;C-C for members osf (roof LL: Lum DOL=1.15 Plate DOL at C: Partially Exp.; Ce=1.0; Cs=1.00; /	=1.15); Pg=20.0 psf; Pf=15		,		
<ol> <li>Gable requi</li> <li>This truss h</li> </ol>	res continuous be as been designed	on (by others) of truss to bearing plate	nonconcurrent with any othe		nt(s) 5_3	except (it=lb)	
4=124. 6) This truss is		ordance with the 2018 International Re					ATE OF MISSOL
							SCOTT M. SEVIER
							PE-2001018807
						V	SSIONAL ENGLA
							November 11 2020

November 11,2020

16023 Swingley Ridge Rd Chesterfield, MO 63017



- DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 3) Provide adequate drainage to prevent water ponding.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 4=248, 5=190.
- 7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 4.
- 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.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





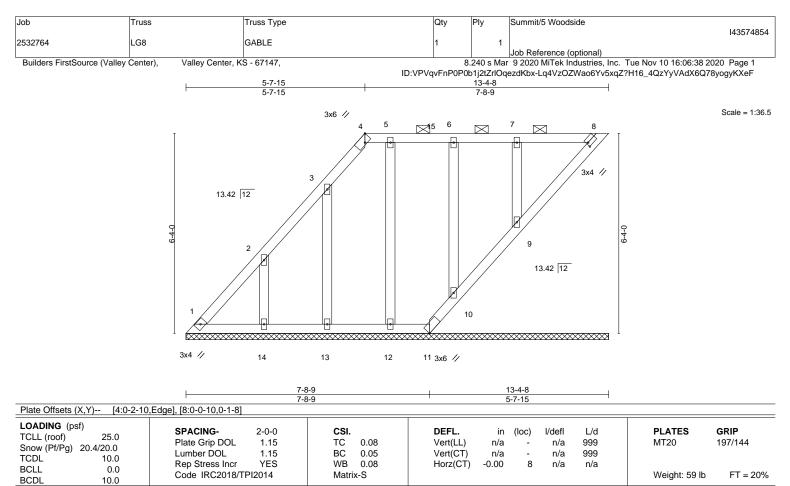
Job	Truss	Truss Type		Qty	Ply	Summit/5 Woodside		
2532764	LG7	GABLE		1	1			143574853
Duildere FirstCourse (Valley	Center), Valley Center, K	6 67147			240 a Ma	Job Reference (optional)	Tue Nev 10 16:06:27 2	20. Daga 1
Builders FirstSource (Valley	Center), Valley Center, K	.5 - 67 147,	ID:VF 5-5-4 5-5-4			r 9 2020 MiTek Industries, Inc. zdKbx-teW6m2YupU_hHxMd?Ir		
			2x4    1					Scale = 1:38.7
		6-1-0		3 ⁴² 12 3 ^{2x4} 4	×			
			7 6	5 2x4 ∖	×			
		2	2x4    2x4	2x4				
			<u>5-5-4</u> 5-5-4		—			
LOADING (psf)           TCLL (roof)         25.0           Snow (Pf/Pg)         15.4/20.0           TCDL         10.0	SPACING- Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15	<b>CSI.</b> TC 0.27 BC 0.05	DEFL. Vert(LL) Vert(CT)		- n/a 999 - n/a 999	PLATES MT20	<b>GRIP</b> 197/144
BCLL 0.0 BCDL 10.0	Rep Stress Incr Code IRC2018/	YES TPI2014	WB 0.04 Matrix-P	Horz(CT)	) 0.00	4 n/a n/a	Weight: 26 lb	FT = 20%
LUMBER- TOP CHORD 2x4 SPF No BOT CHORD 2x4 SPF No WEBS 2x4 SPF No OTHERS 2x4 SPF No	o.2 o.2		TOP	<b>CING-</b> CHORD CHORD	except e	al wood sheathing directly app and verticals. iling directly applied or 10-0-0		3,
			5					
TOP CHORD 2-3=-291/	np./Max. Ten All forces 25( /296, 3-4=-391/391 /274, 5-6=-265/274, 4-5=-26!	. ,	ept when shown.					

## NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 4-4-11, Interior(1) 4-4-11 to 5-1-6 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 4, 6, 5.
- 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.







## LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 OTHERS 2x4 SPF No.2 
 BRACING 

 TOP CHORD
 Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-8.

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

**REACTIONS.** All bearings 13-4-8.

Max Uplift All uplift 100 lb or less at joint(s) 1, 8, 11, 13, 12, 10, 9 except 14=-103(LC 14)

Max Grav All reactions 250 lb or less at joint(s) 1, 8, 11, 13, 12, 10, 9 except 14=250(LC 23)

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

## NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-3-15 to 3-3-15, Interior(1) 3-3-15 to 5-7-15, Exterior(2R) 5-7-15 to 8-5-10, Interior(1) 8-5-10 to 13-0-9 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.

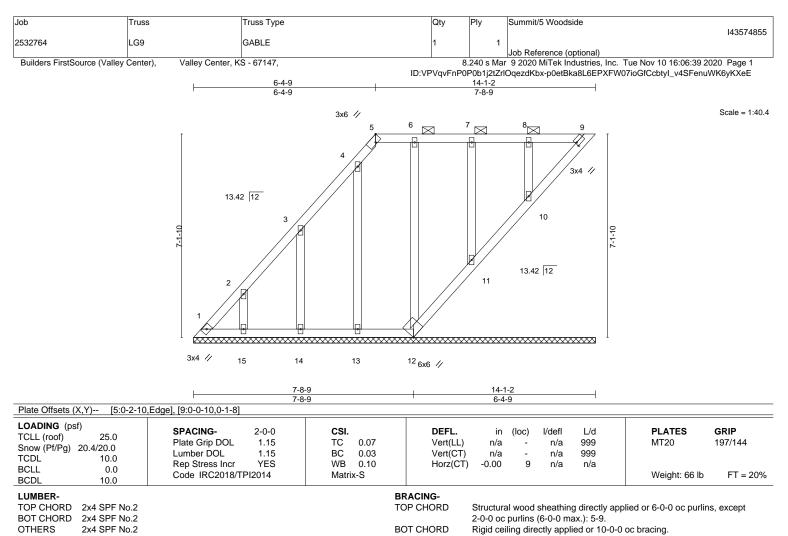
4) Provide adequate drainage to prevent water ponding.

- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 8, 11, 13, 12, 10, 9 except (jt=lb) 14=103.
- 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 8, 10, 9.
- 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.





⁽lb) - Max Horz 1=167(LC 14)



REACTIONS. All bearings 14-1-2.

Max Horz 1=190(LC 14) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 12, 15, 14, 13, 11, 10 Max Grav All reactions 250 lb or less at joint(s) 1, 9, 12, 15, 14, 13, 11, 10

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-262/235

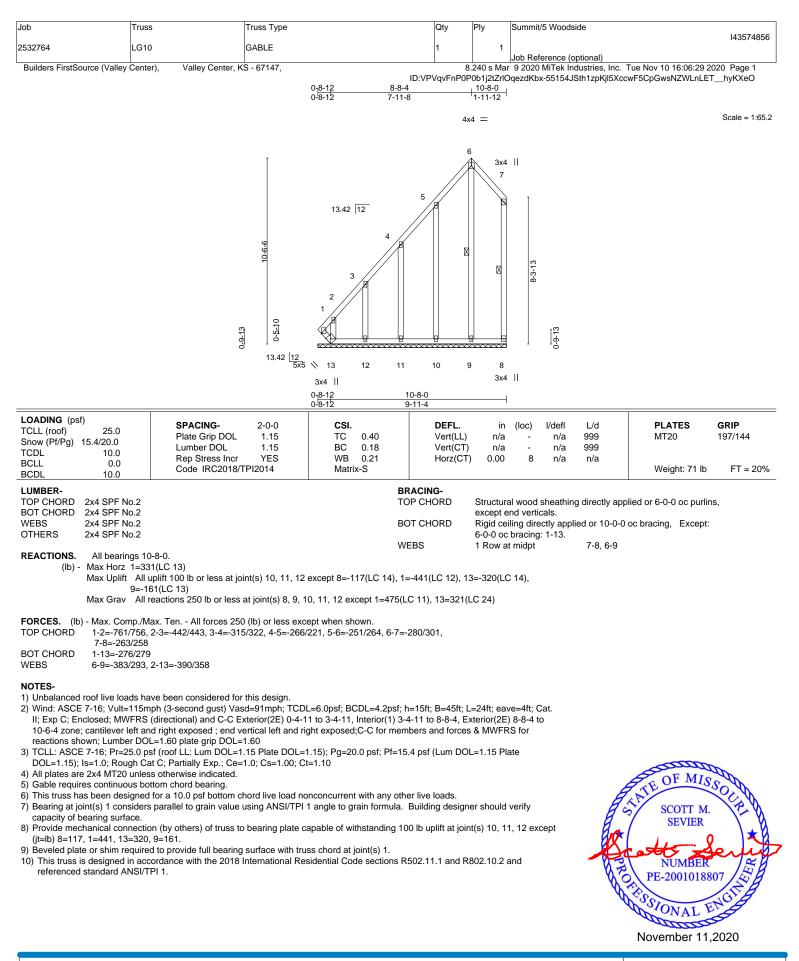
## NOTES-

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

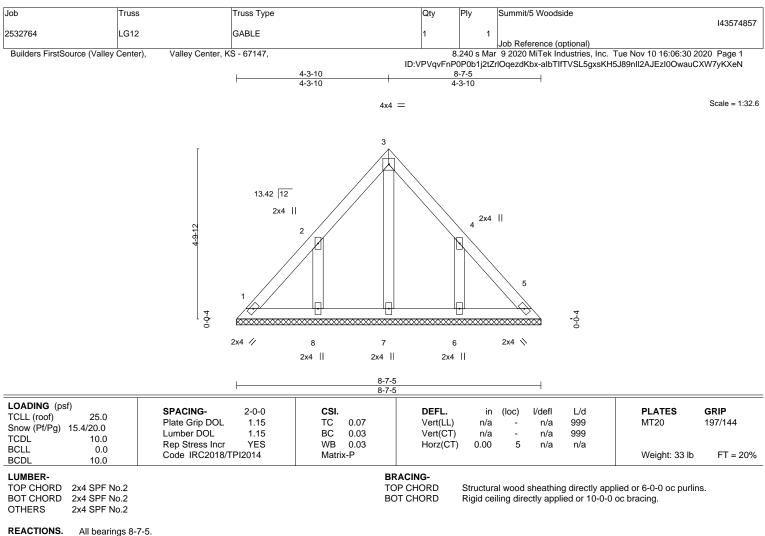
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-3-15 to 3-3-15, Interior(1) 3-3-15 to 6-4-9, Exterior(2R) 6-4-9 to 9-4-9, Interior(1) 9-4-9 to 13-9-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 7)
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9, 12, 15, 14, 13, 11, 10
- 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 9, 11, 10.
- 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.











All bearings 8-7-5.

Max Horz 1=-113(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-104(LC 14), 6=-104(LC 14)

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=253(LC 23), 6=253(LC 24)

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

## NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-3-15 to 3-3-15, Interior(1) 3-3-15 to 4-3-10, Exterior(2R) 4-3-10 to 7-3-10, Interior(1) 7-3-10 to 8-3-6 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) Gable requires continuous bottom chord bearing.

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

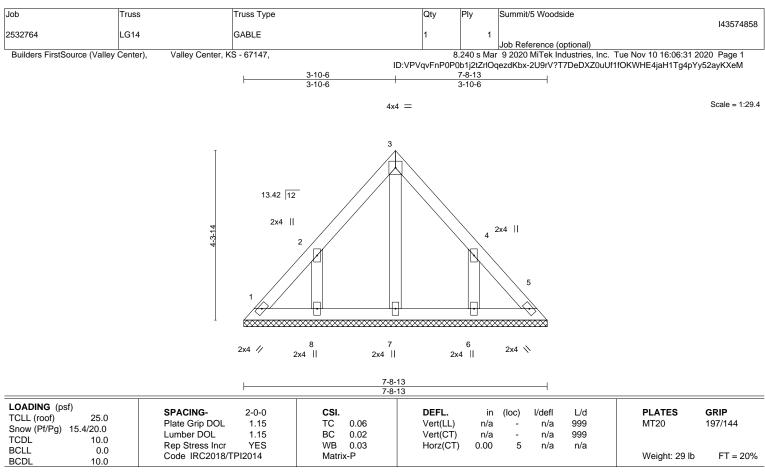
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=104.6=104.

7) 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.





³⁾ TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10



## LUMBER-

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2OTHERS2x4 SPF No.2

BRACING-TOP CHORD BOT CHORD

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

REACTIONS. All bearings 7-8-13. (Ib) - Max Horz 1=-101(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 8, 6

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7, 8, 6

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

## NOTES-

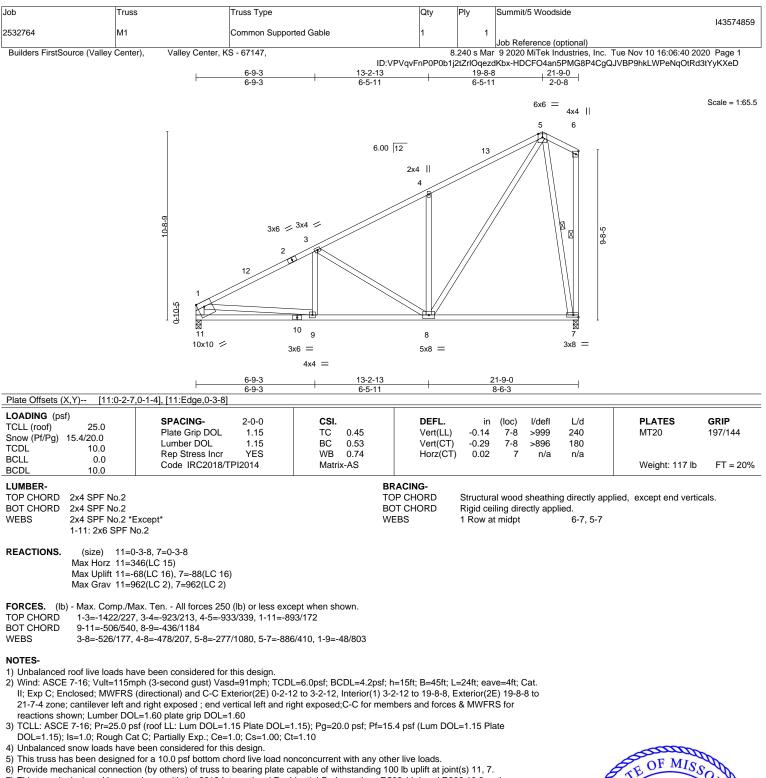
1) Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-3-15 to 3-3-15, Interior(1) 3-3-15 to 3-10-6, Exterior(2R) 3-10-6 to 6-10-6, Interior(1) 6-10-6 to 7-4-14 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 8, 6.
- 7) 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.





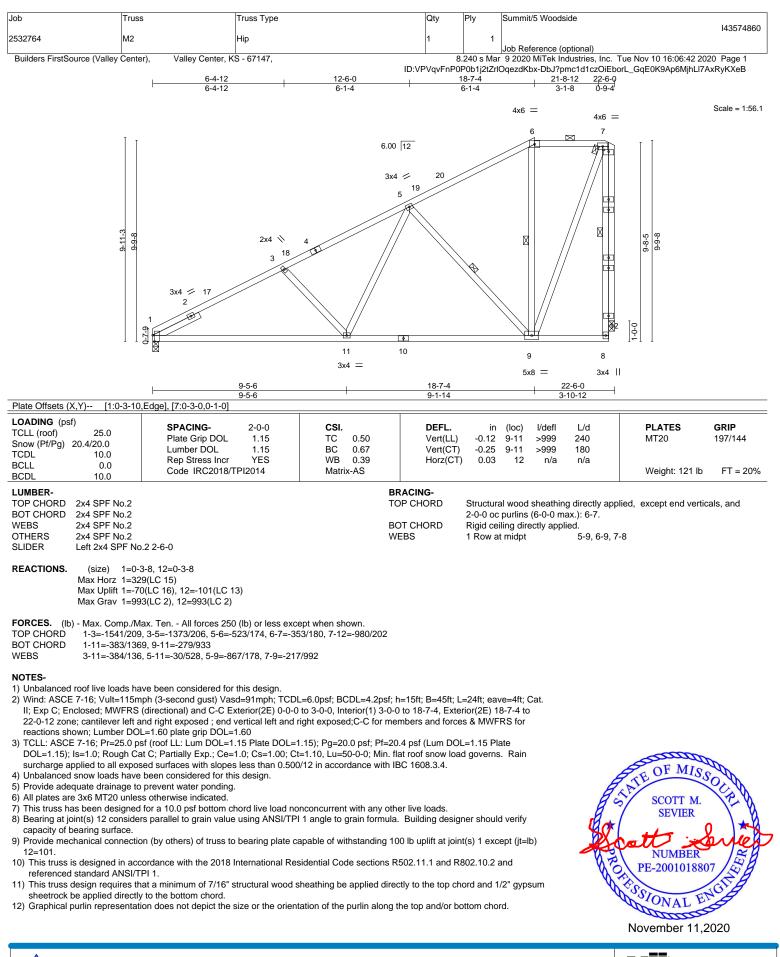


7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.







WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSITP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MITEK[®] 16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Tru	JSS	Truss Type	Qty	Ply	Summit/5 Woodside		
2532764	Ma	3	Roof Special Girder	1	2			143574861
Builders FirstS	Source (Valley Cer	nter), Valley Center, I			.240 s Ma	Job Reference (optional) r 9 2020 MiTek Industries, Inc		
		<u>-11-0 4-0-0 7-1-</u>	12 10-3-8 12-0-0 16-9-12	21-7-8	26-5-		ATzvhuSsT9MARJcK71jLq -	YmyKXe8
	L	-11-0 4-0-0 ' 3-1-	12 ' 3-1-12 '1-8-8 ' 4-9-12 '	4-9-12	4-9-1			Casta 4:00 5
						3x6	5 = 5 =	Scale = 1:80.5
						4x4 = 6x8		
	Τī					9 <u>33</u> 10	) <b>1</b> T T	
				4x4 😒				
			6x6 ⋍	32	Ť			
	9-11-3 9-9-8		NAILED 2x4    7				8 6-6 8 6-6 6	
	9-6 9-6	.00 12 4x4 =	6x12 =				6	
	ΙI							
	-9 -7-4	12 26						
	0-8-0	8	<u>15</u> ¹⁴ ³⁴ 19 ³⁵ 18 ³⁶ 2x4    8x16 MT20HS	13		12 11	1 141	
		20 4x8 = 3x8 = 3x8	$19^{30}$ $18^{30}$ $2x4$    $8x16$ MT20HS 6x8 = 2x4    $8x12 =$	= ^{4x4}	=	4x8 = 2x4	11	
		SUR26	NAILED					
		NAI	LED HHUS26-2					
		<u>4-0-0</u> <u>7-1-</u> 4-0-0 3-1-		21-7-8 4-9-12	<u>26-5-</u> 4-9-1		4	
Plate Offsets (			[7:0-1-8,0-3-0], [10:0-1-8,0-3-0], [15:0-0-0,0				8,0-3-0], [20:0-3-8,0-1-8]	
LOADING (ps TCLL (roof)	sf) 25.0	SPACING- Plate Grip DOL	2-0-0 <b>CSI.</b> 1.15 TC 0.72	<b>DEFL.</b> Vert(LL)	in -0.49	(loc) l/defl L/d 16 >789 240	PLATES MT20	<b>GRIP</b> 197/144
Snow (Pf/Pg) TCDL	20.4/20.0 10.0	Lumber DOL	1.15 BC 0.74	Vert(CT)	-0.87	16 >444 180	MT20HS	148/108
BCLL BCDL	0.0 10.0	Rep Stress Incr Code IRC2018/	NO WB 0.85 TPI2014 Matrix-MS	Horz(CT)	) 0.12	25 n/a n/a	Weight: 383 lb	FT = 20%
LUMBER-				ACING-	_			
		1650F 1.5E, 6-7: 2x6 SP	F No.2	P CHORD	except e	al wood sheathing directly a end verticals, and 2-0-0 oc p	urlins (3-4-15 max.): 3-6,	
BOT CHORD	2x6 SPF 2100 2-18: 2x6 SPF		BO' WE	T CHORD BS	Rigid ce 1 Row a	eiling directly applied or 10-0- at midpt 10-25	-0 oc bracing.	
WEBS	2x4 SPF No.2 5-18: 2x4 SPF							
OTHERS WEDGE	2x4 SPF No.2							
Left: 2x4 SP N	lo.3							
REACTIONS.	(size) 2= Max Horz 2=	0-3-8, 25=0-3-8 254(LC 12)						
	Max Uplift 2=	-228(LC 12), 25=-188(LC 2350(LC 38), 25=1692(L						
500050 <b>//</b> /								
TOP CHORD	2-3=-3923/3	57, 3-4=-3345/327, 4-5=-	0 (lb) or less except when shown. 12315/1113, 5-6=-12863/1166, 6-7=-5099/	371,				
BOT CHORD	2-20=-515/3		8-19=-76/767, 16-17=-1218/12346,					
WEBS	17-18=-64/7		)=-3070/222, 4-19=-1291/217, 17-19=-647/					
			6=-853/119, 6-14=-8102/756, 7-14=-181/24 12=-1961/223, 10-12=-198/1755, 10-25=-16	,				
NOTES-							STREET, NICO	an a
		together with 10d (0.131 blows: 2x4 - 1 row at 0-7	"x3") nails as follows: ·0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.				TE OF MISS	8 S
Bottom cho	ords connected a	s follows: 2x6 - 2 rows st : 2x4 - 1 row at 0-9-0 oc.	aggered at 0-8-0 oc.			A	SCOTT M.	12V
2) All loads ar	e considered eq	ually applied to all plies,	except if noted as front (F) or back (B) face y loads noted as (F) or (B), unless otherwis		ASE(S) s	section. Ply to	SEVIER	1+8
3) Unbalanced	d roof live loads	have been considered fo			0.444		apt se	mes
II; Exp C; E	nclosed; MWFR		left and right exposed ; end vertical left and			r DOL=1.60	PE-200101880	n EA
	E 7-16; Pr=25.0		1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4			late	A TESC	ST A
surcharge	applied to all exp	osed surfaces with slope	=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. fla is less than 0.500/12 in accordance with IB0		a governs	s. Kain	ONAL E	Å
7) This truss h	nas been design	•	nis design. live load of 12.0 psf or 1.00 times flat roof le	oad of 15.4 psf	on overh	nangs	November 11,2	2020
Compression	rage with other li	ve loads.					· 	
Design val	lid for use only with N	liTek® connectors. This design	THIS AND INCLUDED MITEK REFERENCE PAGE MIl- is based only upon parameters shown, and is for an inc	dividual building co	mponent, n	ot		
building de	esign. Bracing indica	ted is to prevent buckling of ind	e applicability of design parameters and properly incorn vidual truss web and/or chord members only. Addition sible personal injury and property damage. For genera	al temporary and p	ermanent b	ralı racing	MiTek	
fabrication	, storage, delivery, e	rection and bracing of trusses a				ling Component	16023 Swingley Ridge Rd Chesterfield, MO 63017	
L								

Job	Truss	Truss Type	Qty	Ply	Summit/5 Woodside	
					143574861	
2532764	M3	Roof Special Girder	1	2		
				2	Job Reference (optional)	
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Nov 10 16:06:45 2020 Page 2			

ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-eA?8Rnevwy_YFAzATzvhuSsT9MARJcK71jLqYmyKXe8

Builders FirstSource (Valley Center), Valley Center, KS - 67147,

NOTES-

8) Provide adequate drainage to prevent water ponding.

9) All plates are MT20 plates unless otherwise indicated.

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

Bearing at joint(s) 25 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=228, 25=188.

13) 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.

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

15) Use Simpson Strong-Tie SUR26 (6-10d Girder, 6-10dx1 1/2 Truss) or equivalent at 4-0-0 from the left end to connect truss(es) to back face of bottom chord, skewed 45.0 deg to the right, sloping 0.0 deg. down.

16) Use Simpson Strong-Tie HHUS26-2 (14-10d Girder, 4-10d Truss) or equivalent at 9-10-2 from the left end to connect truss(es) to back face of bottom chord.

17) Fill all nail holes where hanger is in contact with lumber.

18) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

## LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

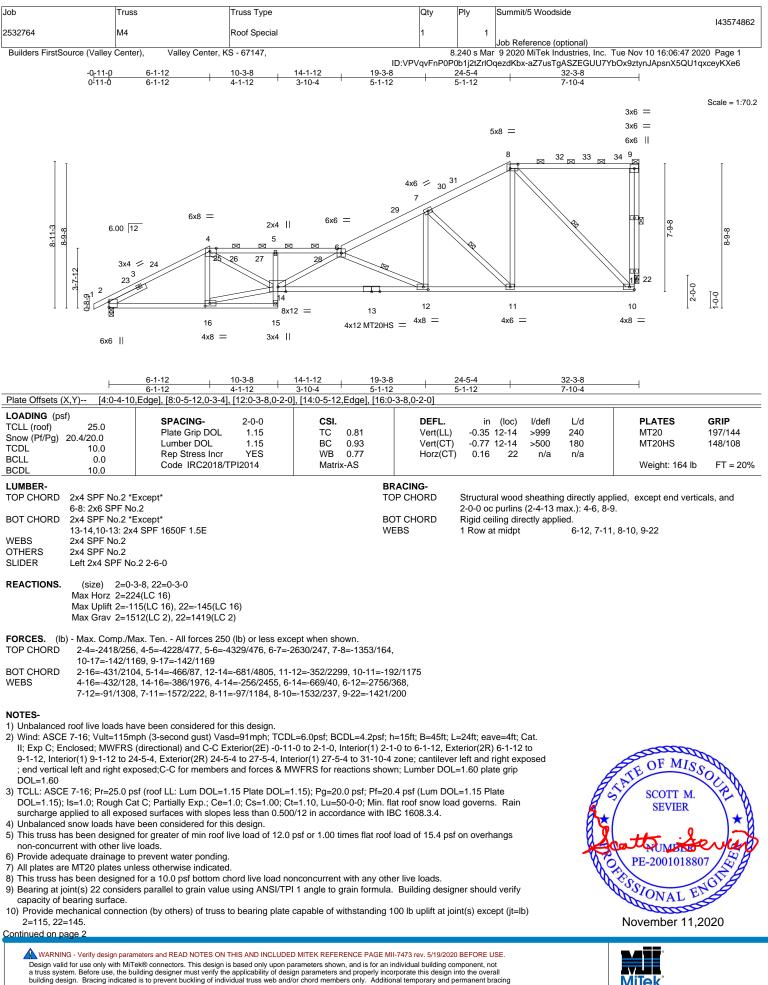
Uniform Loads (plf)

Vert: 1-3=-51, 3-6=-61, 6-9=-51, 9-10=-61, 18-22=-20, 11-17=-20

Concentrated Loads (lb)

Vert: 20=-263(B) 27=-71(B) 29=-71(B) 34=-25(B) 35=-25(B) 36=-707(B)





basing trained to day only which the outpart of the designer based only good relations and a solution and which allowing component, not a truss systems. 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, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

16023 Swingley Ridge Rd Chesterfield, MO 63017

[	Job	Truss	Truss Type	Qty	Ply	Summit/5 Woodside	
						143574862	
	2532764	M4	Roof Special	1	1		
						Job Reference (optional)	
	Builders FirstSource (Valley	S - 67147,	8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Nov 10 16:06:48 2020 Page 2				
			ID:V	PVqvFnP0	P0b1j2tZr	OgezdKbx-2lgG4phoDtM76dil85SOW5Uy2a95V_LajhaU95yKXe5	

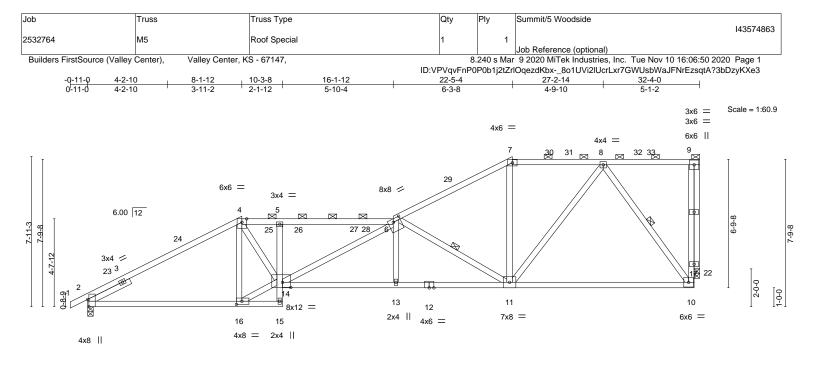
## NOTES-

11) 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.

12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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





		3-1-12	10-3-8	16-1-12	22-5-4		32-4-0		
		3-1-12	2-1-12	5-10-4	6-3-8	I	9-10-12	I	
Plate Offsets (>	(, f) [2:0-4-10	,Edge], [6:0-4-12,0-2-	0], [14:0-5-4,0-3-	4], [10:0-3-8,0-2-0]					
LOADING (psf TCLL (roof) Snow (Pf/Pg) TCDL	25.0	SPACING- Plate Grip DOL Lumber DOL	1.15	CSI. TC 0.76 BC 0.95	DEFL. Vert(LL) Vert(CT)	in (loc) -0.24 10-11 -0.52 10-11	l/defl L/d >999 240 >742 180	PLATES MT20	<b>GRIP</b> 197/144
BCLL BCDL	0.0 10.0	Rep Stress Inc. Code IRC2018		WB 0.89 Matrix-AS	Horz(CT)	0.12 22	n/a n/a	Weight: 153 lb	FT = 20%
LUMBER- TOP CHORD BOT CHORD WEBS OTHERS SLIDER		0.2 2-6-0			BRACING- TOP CHORD BOT CHORD WEBS		(2-6-5 max.): 4-6, 7-9 ectly applied.		cals, and
REACTIONS.	Max Horz 2=19 Max Uplift 2=-12	3-8, 22=0-3-8 97(LC 16) 22(LC 16), 22=-138(Lt 513(LC 2), 22=1421(Lt	,						
FORCES. (Ib) TOP CHORD BOT CHORD WEBS	2-4=-2268/272 10-17=-161/12 2-16=-403/203 4-16=-803/206	lax. Ten All forces 2: 2, 4-5=-2986/393, 5-6= 270, 9-17=-161/1270 37, 5-14=-552/75, 13-1 3, 14-16=-398/2147, 4 -11=-146/1032, 8-10=:	3054/405, 6-7=- 4=-528/3465, 11 14=-220/1869, 6	1853/219, 7-8=-1562 -13=-526/3469, 10-1 -14=-493/3, 6-11=-21	1=-158/935				
<ol> <li>Wind: ASCE II; Exp C; En 11-1-12, Inte exposed; er grip DOL=1.</li> <li>TCLL: ASCE DOL=1.15); surcharge aj 4) Unbalanced</li> <li>This truss ha non-concurre</li> <li>Provide adee 7) This truss ha</li> <li>Bearing at jo capacity of b</li> <li>Provide mec 2=122, 22=1</li> <li>This truss i referenced</li> <li>This truss of</li> </ol>	: 7-16; Vult=115m iclosed; MWFRS erior(1) 11-1-12 to ad vertical left and 60 E 7-16; Pr=25.0 p: Is=1.0; Rough C2 snow loads have as been designed ent with other live quate drainage to as been designed int(s) 22 conside bearing surface. thanical connectio 38. s designed in acc standard ANSI/T design requires th	p prevent water pondin I for a 10.0 psf bottom rs parallel to grain valu on (by others) of truss cordance with the 2018	asd=91mph; TCE Exterior(2E) -0-1 22-5-4 to 25-5-4, r members and f e1.15 Plate DOL= e1.0; Cs=1.0; C es less than 0.50 his design. f live load of 12.0 g. chord live load n 12.0 g. to bearing ANSI/TF to bearing plate of 8 International Re	1-0 to 2-1-0, Interior(' Interior(1) 25-5-4 to 3 orces & MWFRS for 1 (1.15); Pg=20.0 psf; F (t=1.10, Lu=50-0-0; N 0/12 in accordance w 0 psf or 1.00 times flat onconcurrent with an Pl 1 angle to grain for capable of withstandii esidential Code section	<ul> <li>2-1-0 to 8-1-12, Ex 31-10-12 zone; cantil reactions shown; Lun Pf=20.4 psf (Lum DOI tin. flat roof snow loa rith IBC 1608.3.4.</li> <li>roof load of 15.4 psf</li> <li>y other live loads.</li> <li>mula. Building desig</li> <li>ng 100 lb uplift at join ons R502.11.1 and Rith</li> </ul>	terior(2R) 8-1-12 ever left and righ her DOL=1.60 p L=1.15 Plate d governs. Rain f on overhangs ner should verify t(s) except (jt=lb) 802.10.2 and	to t late	SCOTT M. SEVIER NUMBER PE-200101880 November 11,2	CH AND
		meters and READ NOTES O	N THIS AND INCLUDE	ED MITEK REFERENCE PA	.GE MII-7473 rev. 5/19/2020	) BEFORE USE.			
Design valid a truss syste building des	for use only with MiT em. Before use, the build ign. Bracing indicated	ek® connectors. This design uilding designer must verify d is to prevent buckling of in t to prevent collapse with po	n is based only upon p the applicability of des dividual truss web and	barameters shown, and is f sign parameters and proper d/or chord members only.	or an individual building co ly incorporate this design i Additional temporary and p	mponent, not nto the overall ermanent bracing		MiTek	

16023 Swingley Ridge Rd Chesterfield, MO 63017

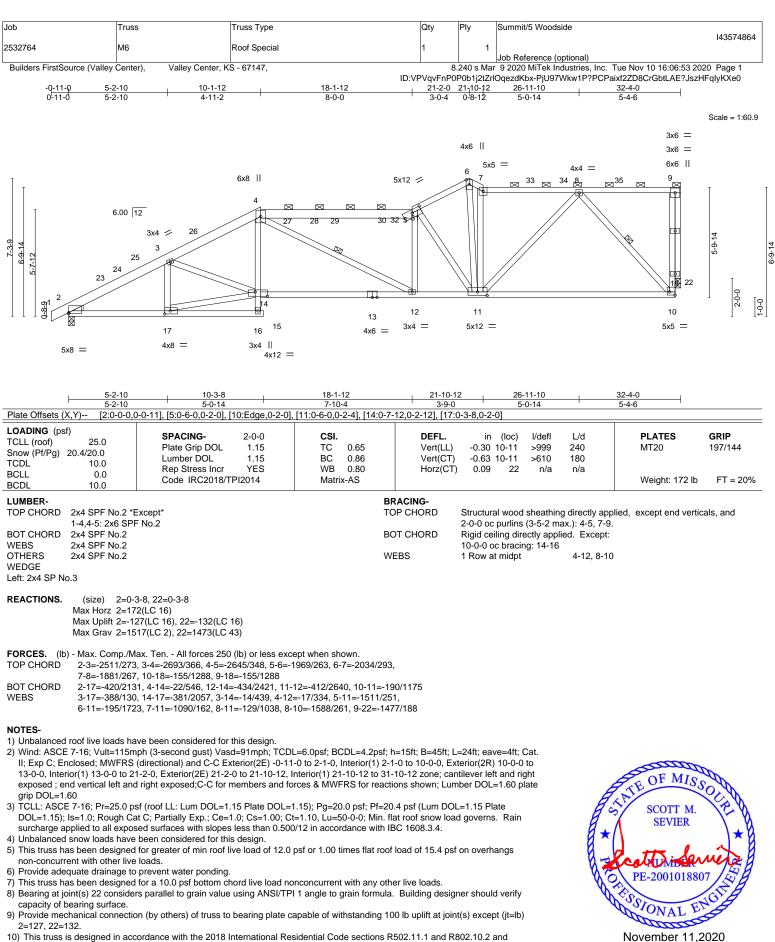
a duss system: beloft use, the building designer must vering the applicability of design parameters and property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing 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 **ANSUTPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Job	Truss	Truss Type	Qty	Ply	Summit/5 Woodside		
2532764	M5	Roof Special	1	1	143574863		
2332704	INIO		1		Job Reference (optional)		
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Nov 10 16:06:50 2020 Page 2				
		ID:V	ID:VPVqvFnP0P0b1j2tZrlOqezdKbx8o1UVi2lUcrLxr7GWUsbWaJFNrEzsqtA?3bDzyKXe3				

## NOTES-

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





10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and Continuing the provide the contract of the contract



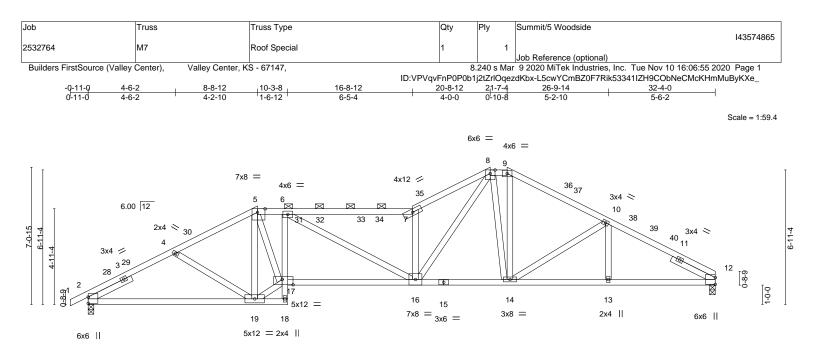
Job		Truss	Truss Type	Qty	Ply	Summit/5 Woodside		
						143574864		
253276	64	M6	Roof Special	1	1			
						Job Reference (optional)		
Build	Builders FirstSource (Valley Center), Valley Center, KS - 67147,			8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Nov 10 16:06:53 2020 Page 2				
			ID:VF	PVqvFnP0	P0b1j2tZrl	OqezdKbx-PjU97Wkw1P?PCPaixf2ZD8CrGbtLAE?JszHFqIyKXe0		

## NOTES-

11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

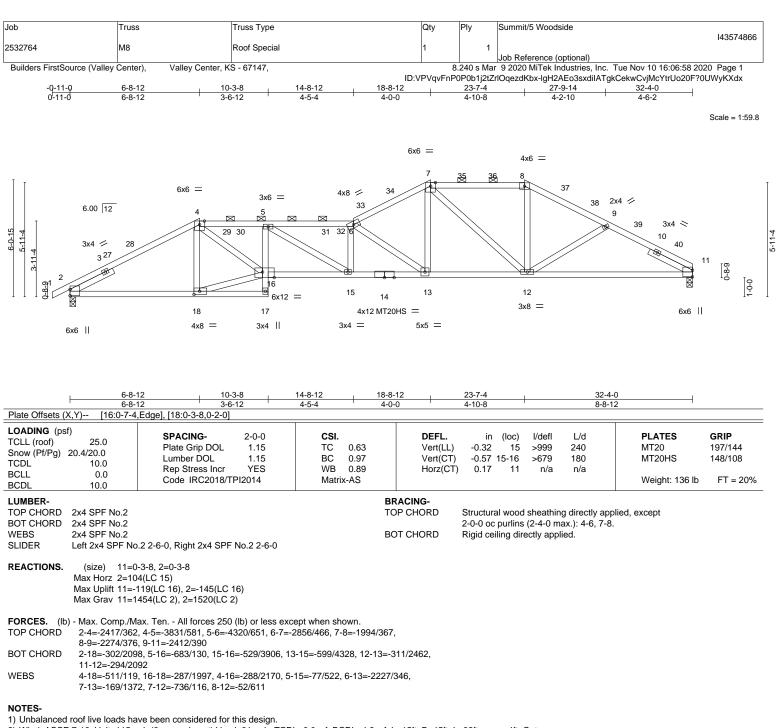
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





	-	8-8-12	10-3-8	16-8-12	20-8-12	21-7-4	26-9-14		32-4-0	
Plate Offsets (X	(Y) [5:0-4-10	8-8-12 ,Edge], [17:0-6-12,0-3-4	'1-6-12 ' 1	6-5-4	4-0-0	0-10-8	5-2-10		5-6-2	
•		,Eugej, [17.0 0 12,0 0 4								
LOADING (psf TCLL (roof)	) 25.0	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
Snow (Pf/Pg)		Plate Grip DOL	1.15	TC 0.81	Vert(LL)	-0.26 16-17	>999	240	MT20	197/144
FCDL	10.0	Lumber DOL	1.15	BC 0.76	Vert(CT)	-0.50 16-17	>776	180		
BCLL	0.0	Rep Stress Incr	YES	WB 0.56	Horz(CT)	0.15 12	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matrix-AS					Weight: 148 lb	FT = 20%
UMBER-				B	RACING-					
	2x4 SPF No.2					Structural woo	d sheathin	a directly a	oplied except	
	2x4 SPF No.2			·		2-0-0 oc purlin				
VEBS	2x4 SPF No.2			В		Rigid ceiling d			0.	
SLIDER		0.2 2-6-0, Right 2x4 SPF	No.2 2-6-0	5		rtigia coning a		ilou.		
REACTIONS.										
FORCES. (lb)	- Max. Comp./M	ax. Ten All forces 250	(lb) or less ex	cept when shown.						
FOP CHORD	2-4=-2408/354	, 4-5=-2269/334, 5-6=-2	782/426, 6-7=	3219/477, 7-8=-3583/57	1,					
	8-9=-1856/340	, 9-10=-2152/355, 10-12	2=-2484/349							
BOT CHORD	2-19=-319/208	8, 6-17=-693/150, 16-17	/=-352/2851, 1	4-16=-194/1908, 13-14=-	247/2154,					
	12-13=-247/21									
WEBS				6-16=-46/500, 7-16=-191	5/350,					
	8-14=-464/87,	9-14=-92/590, 10-14=-3	93/84, 8-16=-3	30/2201						
NOTES-										
2) Wind: ASCE II; Exp C; En 11-11-9, Inte zone; cantile	7-16; Vult=115m closed; MWFRS rior(1) 11-11-9 to ver left and right	(directional) and C-C Ex 20-8-12, Exterior(2E) 2	d=91mph; TCE tterior(2E) -0-1 0-8-12 to 21-7-	DL=6.0psf; BCDL=4.2psf; 1-0 to 2-3-13, Interior(1) 2 4, Exterior(2R) 21-7-4 to bosed;C-C for members a	2-3-13 to 8-8-12, E 24-10-1, Interior(1	xterior(2R) 8-8 ) 24-10-1 to 3	3-12 to 2-4-0		Section 1	J.
DOL=1.15); surcharge ap	Is=1.0; Rough Ca oplied to all expos	at C; Partially Exp.; Ce=	l.0; Cs=1.00; C less than 0.50	1.15); Pg=20.0 psf; Pf=2 t=1.10, Lu=50-0-0; Min. f 0/12 in accordance with I	flat roof snow load		ו	ä	STATE OF MISS	OL R.
5) This truss ha		for greater of min roof li		psf or 1.00 times flat roo	f load of 15.4 psf	on overhangs		an an	SEVIER	1*
		prevent water ponding.							NUT DO	MA
			ord live load n	onconcurrent with any oth	ner live loads.				NUMBER	128
	hanical connection			capable of withstanding 1		(s) except (jt=ll	<b>)</b> )	Ø.	NUMBER PE-200101880	
referenced s	tandard ANSI/TP	11.		idential Code sections R				× ×	ESSIONAL E	NOT A
,	0 1	at a minimum of 7/16" s / to the bottom chord.	tructural wood	sheathing be applied dire	ectly to the top cho	rd and 1/2" gy	psum		A ALL	9
			ize or the orier	ntation of the purlin along	the top and/or bot	tom chord.			November 11,2	020
<u>^</u>				D MITEK REFERENCE PAGE N	All 7472 5/40/2020					

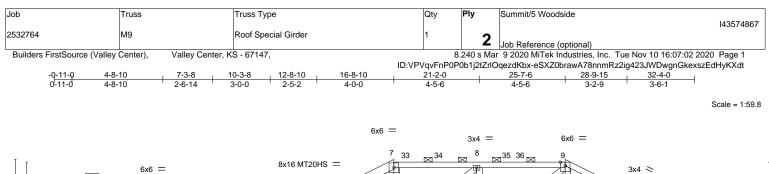


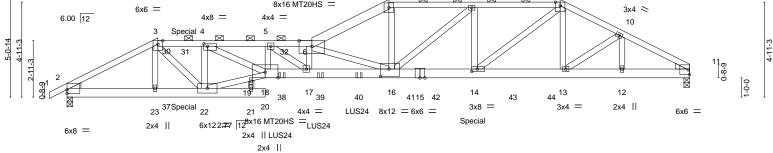


- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=32ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-3-13, Interior(1) 2-3-13 to 6-8-12, Exterior(2R) 6-8-12 to 10-1-12, Interior(1) 10-1-12 to 18-8-12, Exterior(2R) 18-8-12 to 211-9, Interior(1) 21-11-9 to 23-7-4, Exterior(2R) 23-7-4 to 26-10-1, Interior(1) 26-10-1 to 32-4-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
   Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are MT20 plates unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=119, 2=145.
- 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.









4-8-10	) 7-3-8 9-8-8 10-3-8 12-8-	10 , 16-8-10 ,	21-2-0	25-7-6	28-9-15	32-4-0	
4-8-10			4-5-6	4-5-6	3-2-9	3-6-1	
Plate Offsets (X,Y) [2:0-0-	-0,0-2-5], [4:0-2-4,0-1-8], [14:0-3-8,0-1-8], [	<u>16:0-5-4,0-4-8], [18:0-8-0</u>	0,0-3-8]				
LOADING (psf)           TCLL (roof)         25.0           Snow (Pf/Pg)         20.4/20.0           TCDL         10.0           BCLL         0.0           BCDL         10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNOCodeIRC2018/TPI2014	<b>CSI.</b> TC 0.94 BC 0.98 WB 0.96 Matrix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) l/defl -0.57 16-17 >684 -0.98 16-17 >397 0.18 11 n/a	L/d 240 180 n/a	PLATES MT20 MT20HS Weight: 317 lb	<b>GRIP</b> 197/144 148/108 FT = 20%
LUMBER- TOP CHORD 2x4 SPF No.2 3-6: 2x4 SPF BOT CHORD 2x6 SPF 2100	1650F ¹ .5E, 6-7: 2x6 SPF No.2 0F 1.8E *Except* PF No.2, 18-22: 2x4 SPF 1650F 1.5E 2	тс	RACING- DP CHORD DT CHORD	Structural wood sheathi except 2-0-0 oc purlins (2-5-1 n Rigid ceiling directly app 10-0-0 oc bracing: 18-19	nax.): 3-6, 7-9. Nied or 10-0-0 o		IS,
Max Horz 2= Max Uplift 11	1=0-3-8, 2=0-3-8 =83(LC 11) 1=-456(LC 12), 2=-407(LC 12) 1=3196(LC 2), 2=2975(LC 2)						
TOP CHORD 2-3=-5238/7 7-8=-8101/1 BOT CHORD 2-23=-615/4 14-16=-103 19-22=-968	./Max. Ten All forces 250 (lb) or less exc 707, 3-4=-7147/966, 4-5=-14104/1893, 5-6 1185, 8-9=-7511/1124, 9-10=-6193/941, 10 4661, 22-23=-620/4682, 17-18=-1879/1423 3/7508, 13-14=-768/5559, 12-13=-678/477 3/7425, 18-19=-962/7418	15857/2170, 6-7=-8878 0-11=-5452/802 31, 16-17=-2153/15948, 75, 11-12=-678/4775,					
5-17=-316/2	78, 3-22=-456/3614, 4-22=-4201/591, 4-18 2068, 6-17=-999/194, 6-16=-8543/1152, 7- 137, 9-14=-342/2510, 9-13=-137/1025, 10-	16=-492/3647, 8-16=-81/	923,				
<ul> <li>Top chords connected as f Bottom chords connected a Webs connected as follows</li> <li>All loads are considered ec ply connections have been</li> <li>Unbalanced roof live loads</li> <li>Wind: ASCE 7-16; Vult=11 II; Exp C; Enclosed; MWFF plate grip DOL=1.60</li> <li>TCLL: ASCE 7-16; Pr=25.0 DOL=1.15); Is=1.0; Rough surcharge applied to all exp</li> <li>Unbalanced snow loads have</li> </ul>	qually applied to all plies, except if noted as a provided to distribute only loads noted as b have been considered for this design. 15mph (3-second gust) Vasd=91mph; TCDI RS (directional); cantilever left and right exp 0 psf (roof LL: Lum DOL=1.15 Plate DOL= 0 Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ci posed surfaces with slopes less than 0.500 ave been considered for this design. need for greater of min roof live load of 12.0 live loads.	s staggered at 0-9-0 oc. oc, 2x4 - 1 row at 0-9-0 oc s front (F) or back (B) fac (F) or (B), unless otherwi L=6.0psf; BCDL=4.2psf; I bosed ; end vertical left a 1.15); Pg=20.0 psf; Pf=20 L=1.10, Lu=50-0-0; Min. fl )/12 in accordance with IB	e in the LOAD C, ise indicated. h=15ft; B=45ft; L: nd right exposed 0.4 psf (Lum DOL lat roof snow load BC 1608.3.4.	=32ft; eave=4ft; Cat. ; Lumber DOL=1.60 L=1.15 Plate d governs. Rain		PE-200101880 November 11,2	
Design valid for use only with a truss system. Before use, th building design. Bracing indic is always required for stability fabrication, storage, delivery, e	arameters and READ NOTES ON THIS AND INCLUDEI MITek® connectors. This design is based only upon p le building designer must verify the applicability of desi ated is to prevent buckling of individual truss web and and to prevent collapse with possible personal injury a erection and bracing of trusses and truss systems, see a from Truss Plate Institute, 2670 Crain Highway, Suite	arameters shown, and is for an i gn parameters and properly inco for chord members only. Additic and property damage. For gene ANSI/TP11 Quality C	individual building cor orporate this design ir onal temporary and per ral guidance regardin	mponent, not nto the overall ermanent bracing		16023 Swingley Ridge Ro Chesterfield, MO 63017	

[	Job	Truss	Truss Type	Qty	Ply	Summit/5 Woodside
	2532764	M9	Roof Special Girder	1	2	I43574867 Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Nov 10 16:07:02 2020 Page 2 ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-eSXZ0brawA78nnmRz2ig423JWDwgnGkexszEdHyKXdt

### NOTES-

9) All plates are MT20 plates unless otherwise indicated.

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

- The true board board to be a factor of trues to be a finite international matrix that and the board of trues to be a finite international matrix that many data and the board of trues to be a finite international matrix that many data and the board of trues to be a finite international matrix that many data and the board of trues to be a finite international matrix that many data and the board of trues to be a finite international matrix that many data and the board of trues to be a finite international matrix that many data and the board of trues to be a finite international matrix that many data and the board of trues to be a finite international matrix that many data and the board of trues to be a finite international matrix that many data and the board of trues to be a finite international matrix that many data and the board of trues to be a finite international matrix that many data and the board of trues to be a finite international matrix that many data and the board of th
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 11-2-0 from the left end to 15-2-0 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) 133 lb down and 69 lb up at 5-2-0, and 133 lb down and 66 lb up at 7-2-0 on top chord, and 273 lb down and 66 lb up at 4-8-10, 44 lb down at 5-2-0, 44 lb down at 7-1-12, 289 lb down and 71 lb up at 17-2-0, 289 lb down and 71 lb up at 19-2-0, 289 lb down and 71 lb up at 21-2-0, 289 lb down and 71 lb up at 23-2-0, and 289 lb down and 71 lb up at 25-2-0, and 638 lb down and 120 lb up at 25-7-6 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 17) Special hanger(s) or other connection device(s) shall be provided at 6-1-14 from the left end sufficient to connect trusses to front face of bottom chord, skewed 0.0 deg. to the right, sloping 0.0 deg down. The design/selection of such special connection device(s) is the responsibility of others.
- 18) Special hanger(s) or other connection device(s) shall be provided at 6-2-0 from the left end sufficient to connect trusses to front face of top chord, skewed 0.0 deg. to the right, sloping 0.0 deg down.. The design/selection of such special connection device(s) is the responsibility of others.

### LOAD CASE(S) Standard

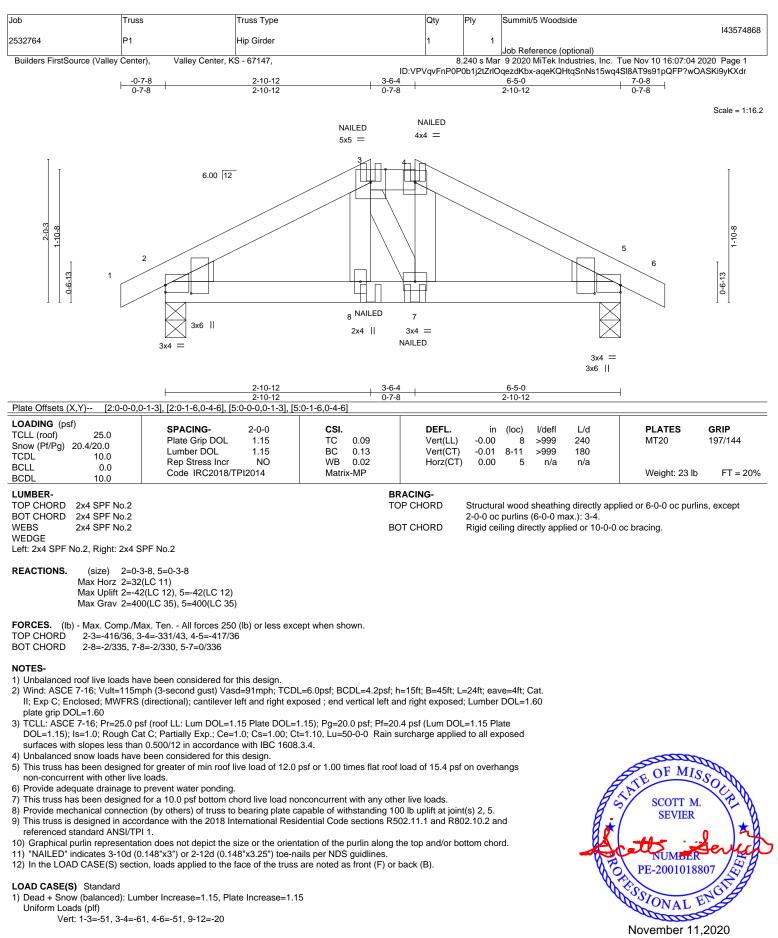
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-51, 3-6=-61, 6-7=-51, 7-9=-61, 9-11=-51, 22-27=-20, 20-22=-20, 18-24=-20, 18-19=-20 Concentrated Loads (lb)

Vert: 23=-273(F) 22=-36(F) 4=-101(F) 14=-289(F) 13=-638(F) 30=-104(F) 37=-36(F) 38=-250(F) 39=-289(F) 40=-252(F) 41=-289(F) 42=-289(F) 43=-289(F) 43=-289( 44 = -289(F)





### Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601 16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/5 Woodside
					143574868
2532764	P1	Hip Girder	1	1	
					Job Reference (optional)
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					9 2020 MiTek Industries, Inc. Tue Nov 10 16:07:04 2020 Page 2

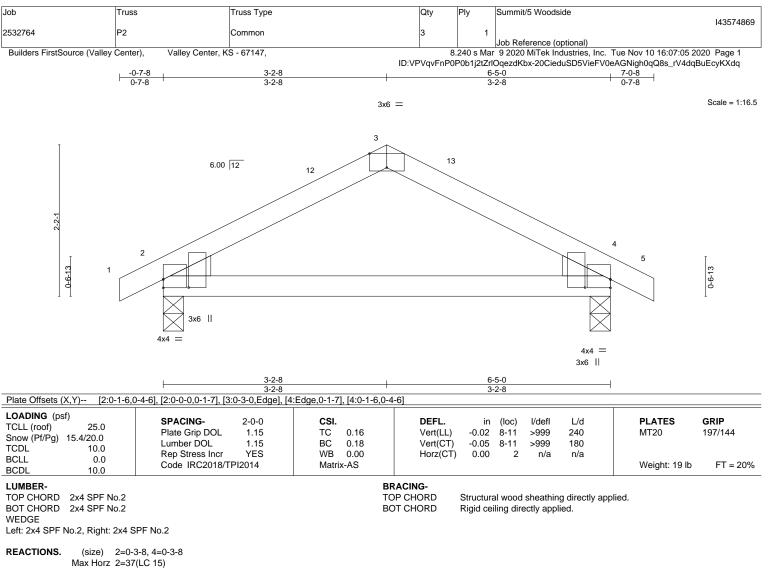
ID:VPVqvFnP0P0b1j2tZrlOqezdKbx-aqeKQHtqSnNs15wq4Sl8AT9s91pQFP?wOASKi9yKXdr

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 3=-30(B) 4=-30(B) 7=-14(B) 8=-14(B)





Max Hulz 2=37(LC 13) Max Uplift 2=-42(LC 16), 4=-42(LC 16) Max Grav 2=333(LC 2), 4=332(LC 2)

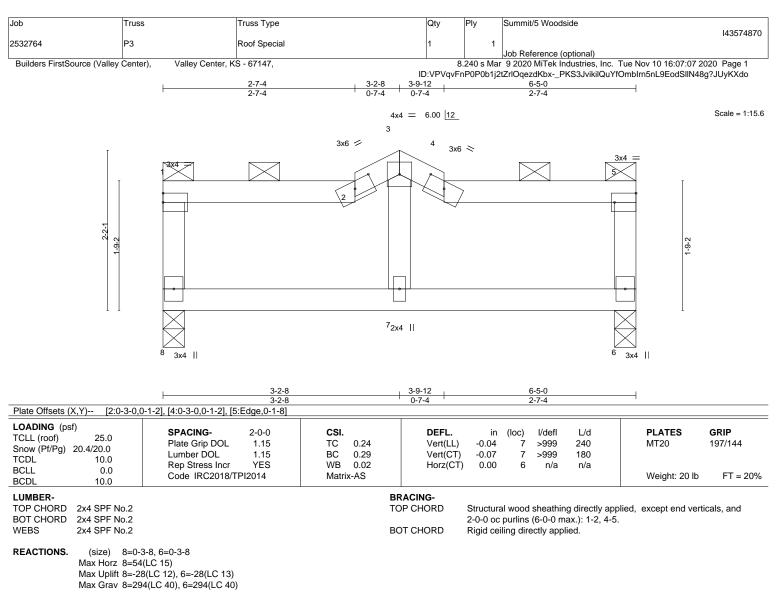
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-263/163, 3-4=-263/163

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-7-8 to 2-4-8, Interior(1) 2-4-8 to 3-2-8, Exterior(2R) 3-2-8 to 6-5-0, Interior(1) 6-5-0 to 7-0-8 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
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
   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.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.







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

### NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 2-7-4, Interior(1) 2-7-4 to 3-2-8, Exterior(2E) 3-2-8 to 3-9-12, Interior(1) 3-9-12 to 6-3-4 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

- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.

5) Provide adequate drainage to prevent water ponding.

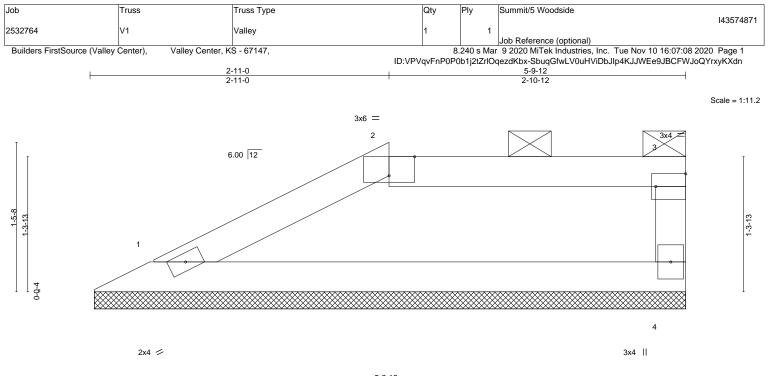
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6. 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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



November 11,2020

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



### 5-9-12 5-9-12 Plate Offsets (X,Y)--[2:0-3-0,Edge], [3:Edge,0-1-8] LOADING (psf) SPACING-DEFL. GRIP 2-0-0 CSI in (loc) l/defl L/d PLATES 25.0 TCLL (roof) Plate Grip DOL 1.15 тс 0.22 Vert(LL) 999 MT20 197/144 n/a n/a Snow (Pf/Pg) 20.4/20.0 Lumber DOL 1.15 BC 0.19 Vert(CT) n/a n/a 999 TCDL 10.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 4 n/a n/a BCLL 0.0 Code IRC2018/TPI2014 FT = 20% Weight: 14 lb Matrix-R BCDL 10.0 LUMBER-BRACING-TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 5-9-12 oc purlins, BOT CHORD 2x4 SPF No.2 except end verticals, and 2-0-0 oc purlins: 2-3.

 2x4 SPF No.2
 BOT CHORD
 Rigid ceiling directly applied or 10-0-0 oc bracing

 (size)
 1=5-9-4, 4=5-9-4

(size) 1=5-9-4, 4=5-9-4 Max Horz 1=36(LC 15) Max Uplift 1=-18(LC 16), 4=-23(LC 13)

Max Grav 1=227(LC 35), 4=240(LC 34)

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

### NOTES-

WEBS

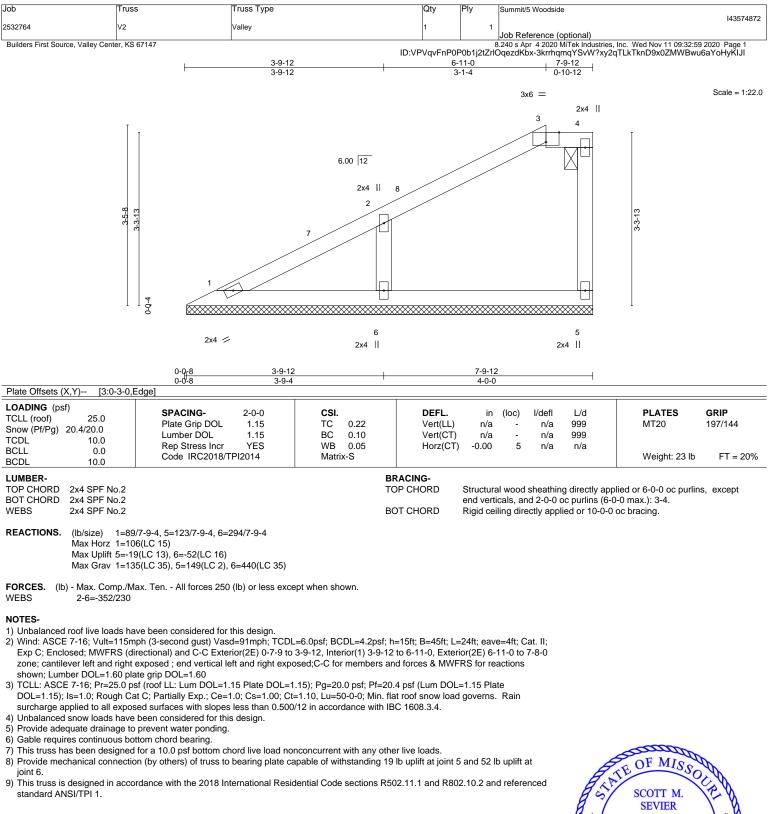
REACTIONS.

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) 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
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) Provide adequate drainage to prevent water ponding.
- 6) Gable requires continuous bottom chord bearing.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4.
   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.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



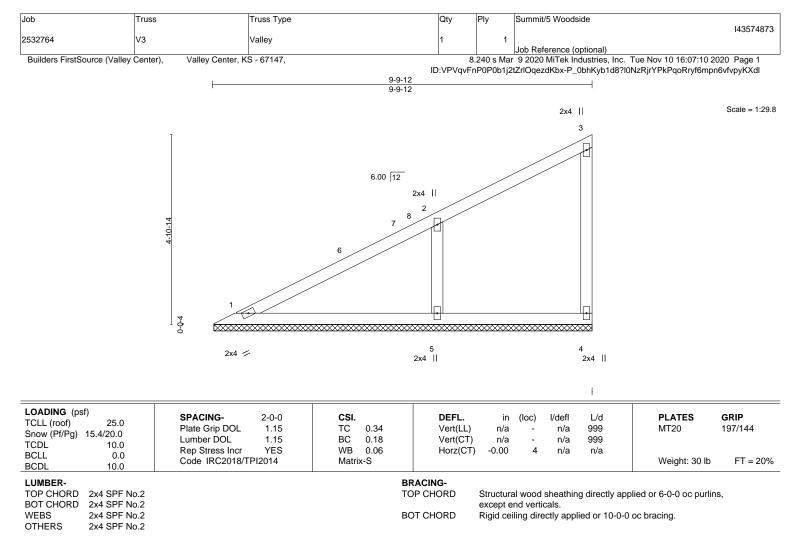






November 11,2020

16023 Swingley Ridge Rd Chesterfield, MO 63017



# **REACTIONS.** (size) 1=9-9-4, 4=9-9-4, 5=9-9-4

Max Horz 1=158(LC 13) Max Uplift 4=-23(LC 13), 5=-81(LC 16)

Max Grav 1=189(LC 2), 4=141(LC 20), 5=512(LC 2)

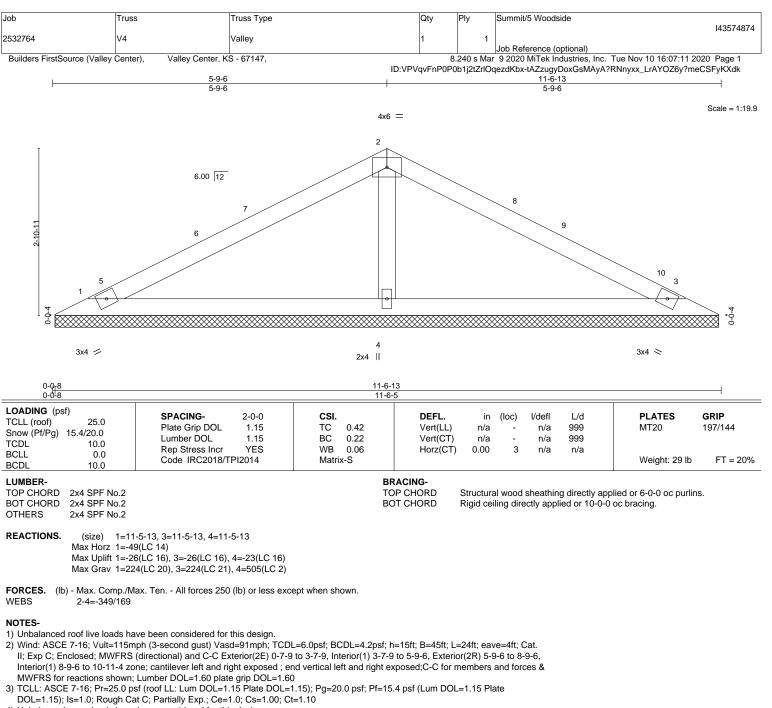
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 2-5=-386/243

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 9-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate
- DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.
- 7) 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.







4) Unbalanced snow loads have been considered for this design.

5) Gable requires continuous bottom chord bearing.

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

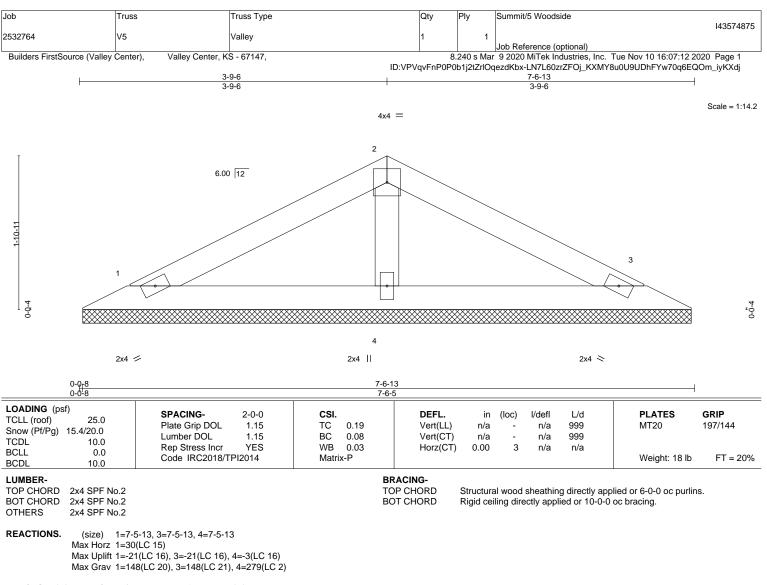
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.

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.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSITPTI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601 November 11,2020





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

### NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) 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

- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.

5) Gable requires continuous bottom chord bearing.

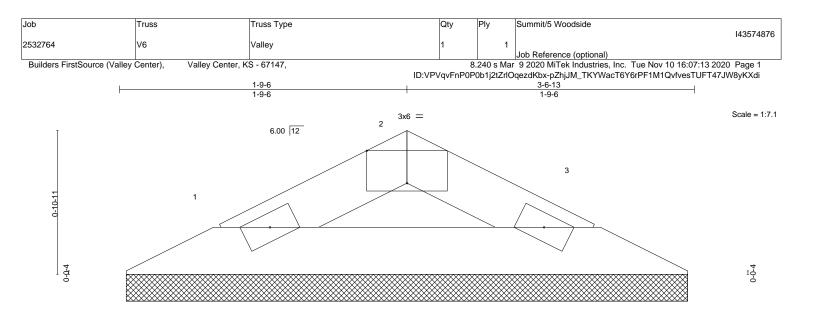
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.

 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.







2x4 ⋍

2x4 🔍

0- <u>0-8</u> 0-0-8 Plate Offsets (X,Y) [2:0-3-0,Ec	dge]	<u>3-6-</u> 3-6-						
LOADING         (psf)           TCLL (roof)         25.0           Snow (Pf/Pg)         15.4/20.0           TCDL         10.0           BCLL         0.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYES	CSI. TC 0.03 BC 0.05 WB 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) n/a - n/a - 0.00 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	<b>GRIP</b> 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P					Weight: 7 lb	FT = 20%
LUMBER- TOP CHORD 2x4 SPF No.2			ACING- PCHORD S	Structural wood	d sheathir	g directly app	blied or 3-6-13 oc pu	rlins.

BOT CHORD

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

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2

REACTIONS. 1=3-5-13, 3=3-5-13 (size) Max Horz 1=11(LC 15) Max Uplift 1=-8(LC 16), 3=-8(LC 16) Max Grav 1=104(LC 2), 3=104(LC 2)

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

## NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) 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

3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

4) Unbalanced snow loads have been considered for this design.

5) Gable requires continuous bottom chord bearing.

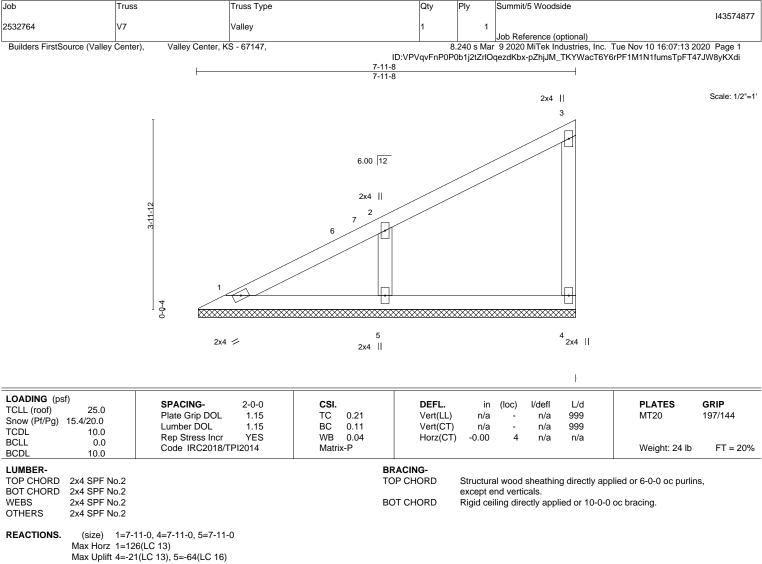
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

r) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

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.







Max Grav 1=111(LC 28), 4=154(LC 20), 5=413(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 2-5=-323/232

NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 7-9-12 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

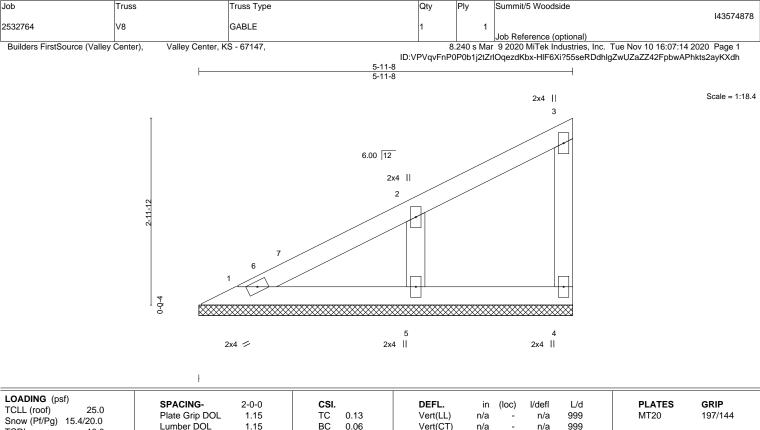
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.

4) Gable requires continuous bottom chord bearing.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.
- 7) 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.







LOADING (psf)           TCLL (roof)         25.0           Snow (Pf/Pg)         15.4/20.0           TCDL         10.0           BCLL         0.0           BCDL         10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	<b>CSI.</b> TC 0.13 BC 0.06 WB 0.04 Matrix-P		in (loc) n/a - n/a - 00 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 18 lb	<b>GRIP</b> 197/144 FT = 20%
LUMBER- TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2		BRAC TOP C	CHORD Struc	tural wood		g directly app	blied or 5-11-8 oc purli	ins,

BOT CHORD

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

REACTIONS. (size) 1=5-11-8, 4=5-11-8, 5=5-11-8 Max Horz 1=91(LC 13)

2x4 SPF No.2

2x4 SPF No.2

Max Uplift 4=-14(LC 13), 5=-46(LC 16)

Max Grav 1=100(LC 2), 4=82(LC 20), 5=322(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 2-5=-257/209

NOTES-

WEBS

OTHERS

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-7-9 to 3-5-8, Interior(1) 3-5-8 to 5-9-12 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

- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.

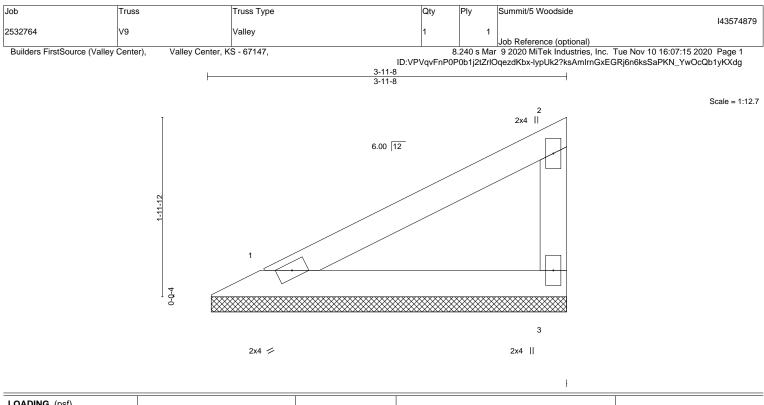
4) Gable requires continuous bottom chord bearing.

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

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.
- 7) 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.







LOADING         (psf)           TCLL (roof)         25.0           Snow (Pf/Pg)         15.4/20.0           TCDL         10.0           BCLL         0.0           BCDL         10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.19 BC 0.10 WB 0.00 Matrix-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	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: 10 lb	<b>GRIP</b> 197/144 FT = 20%
LUMBER- TOP CHORD 2x4 SPF No.2			RACING- DP CHORD	Structural	wood	sheathin	a directlv ap	plied or 3-11-8 oc purl	ins.

BOT CHORD

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x4 SPF No.2

WEBS 2x4 SPF No.2 **REACTIONS.** (size) 1=3-11-0, 3=

Structural wood sheathing directly applied or 3-11-8 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

ACTIONS. (size) 1=3-11-0, 3=3-11-0 Max Horz 1=56(LC 13) Max Uplift 1=-10(LC 16), 3=-14(LC 13) Max Grav 1=149(LC 20), 3=149(LC 20)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.

4) Gable requires continuous bottom chord bearing.

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

7) 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.





