

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

03/03/2021

RE: 2648535

Summit/66 Woodside

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

Site Information:

Customer: SUMMIT CUSTOM HOMES Project Name: 2648535

Lot/Block: Model:

Address: Subdivision: City: State:

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

Design Code: IRC2018/TPI2014 Design Program: MiTek 20/20 8.2

Wind Code: N/A Wind Speed: 115 mph Roof Load: 45.0 psf Floor Load: N/A psf

This package includes 83 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	141762447	A01	2/12/2021	21	141762467	D04	2/12/2021
2	141762448	A02	2/12/2021	22	141762468	D05	2/12/2021
3	141762449	A03	2/12/2021	23	141762469	D06	2/12/2021
4	141762450	A04	2/12/2021	24	141762470	D07	2/12/2021
5	I41762451	A05	2/12/2021	25	141762471	D08	2/12/2021
6	141762452	B01	2/12/2021	26	141762472	D09	2/12/2021
7	141762453	B02	2/12/2021	27	141762473	D10	2/12/2021
8	141762454	B03	2/12/2021	28	141762474	D11	2/12/2021
9	141762455	C01	2/12/2021	29	141762475	D12	2/12/2021
10	I41762456	C02	2/12/2021	30	141762476	D13	2/12/2021
11	141762457	C03	2/12/2021	31	141762477	D15	2/12/2021
12	141762458	C04	2/12/2021	32	141762478	D16	2/12/2021
13	141762459	C05	2/12/2021	33	141762479	E01	2/12/2021
14	I41762460	C06	2/12/2021	34	141762480	E02	2/12/2021
15	I41762461	C07	2/12/2021	35	141762481	E03	2/12/2021
16	141762462	C08	2/12/2021	36	141762482	E04	2/12/2021
17	I41762463	C09	2/12/2021	37	141762483	J01	2/12/2021
18	141762464	D01	2/12/2021	38	141762484	J02	2/12/2021
19	I41762465	D02	2/12/2021	39	141762485	J03	2/12/2021
20	I41762466	D03	2/12/2021	40	141762486	J04	2/12/2021

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.



1 of 2



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

03/03/2021

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

RE: 2648535 - Summit/66 Woodside

Site Information:

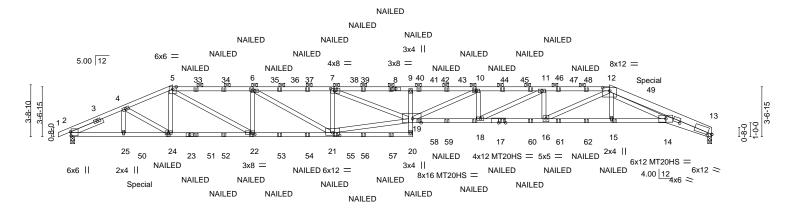
Project Customer: SUMMIT CUSTOM HOMES Project Name: 2648535 Lot/Block: Subdivision:

Address:

City, County: State:

•	•		
No.	Seal#	Truss Name	Date
41	141762487	J05	2/12/2021
42	I41762488	J06	2/12/2021
43	141762489	J07	2/12/2021
44	I41762490	J08	2/12/2021
45	141762491	J09	2/12/2021
46	141762492	J10	2/12/2021
47	141762493	J11	2/12/2021
48	141762494	J12	2/12/2021
49	141762495	J13	2/12/2021
50	141762496	J14	2/12/2021
51	141762497	J15	2/12/2021
52	I41762498	J16	2/12/2021
53	I41762499	J17	2/12/2021
54	I41762500	J18	2/12/2021
55	I41762501	J19	2/12/2021
56	141762502	J20	2/12/2021
57	I41762503	J21	2/12/2021
58	141762504	J22	2/12/2021
59	141762505	J23	2/12/2021
60	141762506	J24	2/12/2021
61	141762507	J25	2/12/2021
62	141762508	J26	2/12/2021
63	I41762509	J27	2/12/2021
64	I41762510	J28	2/12/2021
65	I41762511	J29	2/12/2021
66	I41762512	J30	2/12/2021
67	I41762513	J31	2/12/2021
68	I41762514	JD01	2/12/2021
69	I41762515	JD02	2/12/2021
70	I41762516	JD03	2/12/2021
71	I41762517	LG1	2/12/2021
72	I41762518	LG2	2/12/2021
73	I41762519	LG3	2/12/2021
74	I41762520	LG4	2/12/2021
75	I41762521	LG5	2/12/2021
76	I41762522	LG6	2/12/2021
77	I41762523	LG7	2/12/2021
78	l41762524	R1	2/12/2021
79	I41762525	V01	2/12/2021
80	I41762526	V02	2/12/2021
81	141762527	V03	2/12/2021
82	l41762528	V04	2/12/2021
83	l41762529	V05	2/12/2021

RELEASE FOR Job Truss Truss Type Qty Ply Summit/66 Woodside CONSTRUCTION AS NOTED ON PLANS RE 2648535 A01 HIP GIRDER 3 **DEVELOPMENT SERVICES** Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inclate Sustantial Tables Charles Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-aaUimbrKxy_xZgfzhcBYEy4sqFLR598LPNbT4Oz3Qtx 42-8-8 **03/03/2021** 29-3-1 33-11-9 38-8-2 3-9-11 3-6-3 5-8-14 5-8-14 5-8-14 4-8-9 4-8-9 Scale = 1:82.7



3-9-11 7-3-14 13-0-12 3-9-11 3-6-3 5-8-14	8-9-10 24-6-8 5-8-14 5-8-14	29-3-1 4-8-9	33-11-9 4-8-9	38-8-2 4-8-9	42-8-8 46-0-0 4-0-6 3-3-8	4
Plate Offsets (X,Y) [2:0-3-7,0-0-7], [7:0-3-8,0-2-0], [12:0-6-0,0-	-11], [13:0-3-9,0-1-9], [13:2-5-5,	,0-0-7], [19:0-7-4,Ec	dge], [21:0-6-0,	0-2-4], [22:0-3-8,	0-1-8]	
CADING (psf) SPACING- 2-0-0	CSI. TC 0.87 BC 0.97 WB 0.70 Matrix-MS	Vert(CT) -1	.09 18-19 >	/defl L/d 506 240 292 180 n/a n/a	PLATES MT20 MT20HS Weight: 587 lb	GRIP 197/144 148/108 FT = 20%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

2x4 SPF 1650F 1.5E *Except* TOP CHORD

1-5: 2x4 SPF No.2, 12-13: 2x6 SPF No.2

BOT CHORD 2x4 SPF 1650F 1.5E *Except*

9-20: 2x4 SPF No.2, 17-19: 2x4 SP 2400F 2.0E 13-14: 2x6 SPF 2100F 1.8E

2x4 SPF No.2 *Except* **WEBS**

19-21: 2x4 SPF 1650F 1.5E

SLIDER Left 2x4 SPF No.2 2-6-0

(size) 13=0-3-8, 2=0-3-8 REACTIONS.

Max Horz 2=35(LC 14)

Max Uplift 13=-534(LC 8), 2=-339(LC 8)

Max Grav 13=3565(LC 34), 2=3834(LC 2)

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

2-4=-7592/694, 4-5=-8149/762, 5-6=-11897/1199, 6-7=-14068/1479, 7-9=-20110/2253, TOP CHORD

9-10=-20544/2293, 10-11=-19208/2253, 11-12=-15799/1978, 12-13=-15765/2497

BOT CHORD 2-25=-597/6815, 24-25=-597/6815, 22-24=-667/7615, 21-22=-1141/11892, 20-21=-130/1452, 9-19=-598/143, 18-19=-2197/19208, 16-18=-1921/15799,

15-16=-1464/10737, 14-15=-1466/10765, 13-14=-2297/14842

WEBS 4-24=-90/928, 5-24=-18/284, 5-22=-550/4951, 6-22=-2264/376, 6-21=-328/2525,

7-21=-3286/500, 19-21=-1336/12960, 7-19=-811/6364, 10-19=-44/1488, 10-18=-1251/141, $11 - 18 = -306/3789, \ 11 - 16 = -2261/250, \ 12 - 16 = -509/5627, \ 12 - 15 = -27/434, \ 12 - 14 = -894/4633$

NOTES-

1) 3-ply truss to be connected together as follows:

Top chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-7-0 oc, 2x6 - 2 rows staggered at 0-7-0 oc. Bottom chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-5-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc. Web connected with USP WS45 screws as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed: MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) 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 Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 6) Unbalanced snow loads have been considered for this design.
- 7) 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.



Structural wood sheathing directly applied or 4-9-8 oc purlins, except

2-0-0 oc purlins (4-9-2 max.): 5-12.

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



Job	Truss	Truss Type	Qty	Ply	Summit/66 Woodsic	le
2648535	A01	HIP GIRDER	1	3	Job Reference (opti	onal)
Builders FirstSource (Valley	Center), Valley Center, K	S - 67147,	8	.240 s Ma	r 9 2020 MiTek Indu	stries, Ir

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW **DEVELOPMENT SERVICES**

8.240 s Mar 9 2020 MiTek Industries, Incl. 523MM21T384155 Old RD

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03/03/2021

- 9) All plates are MT20 plates unless otherwise indicated.
- 10) All plates are 3x6 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.
- 12) Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=534, 2=339.
- 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) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 17) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 285 lb down and 270 lb up at 41-0-0 on top chord, and 488 lb down and 62 lb up at 5-0-0 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: 1-5=-51, 5-12=-61, 12-13=-51, 20-29=-20, 14-19=-20, 14-26=-20

Concentrated Loads (lb)

Vert: 17=-79(F) 24=-51(F) 22=-51(F) 6=-146(F) 7=-146(F) 10=-118(F) 18=-79(F) 15=-8(F) 33=-146(F) 34=-146(F) 36=-146(F) 37=-146(F) 39=-146(F) 40=-146(F) 41=-118(F) 43=-118(F) 44=-118(F) 46=-118(F) 46=-118(F) 48=-118(F) 49=-254(F) 50=-488(F) 51=-51(F) 52=-51(F) 53=-51(F) 54=-51(F) 55=-51(F) 56=-51(F) 57=-51(F) 58=-79(F) 59=-79(F) 60=-79(F) 61=-79(F) 62=-79(F)

7-4-14

7-4-14

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS RE **DEVELOPMENT SERVICES**

Job Reference (optional) DEVELOPMENT SERVICES 8.240 s Mar 9 2020 MiTek Industries, Incl. Libr 5.1823MW2140V1136 GAUSTI

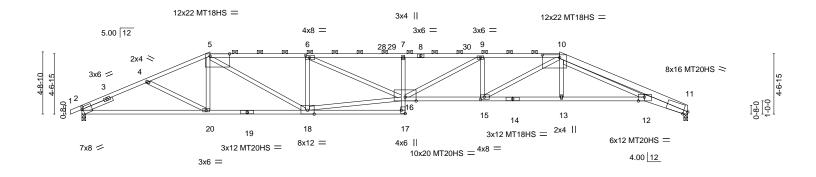
46-003/03/2021 3-3-8 30-4-14 42-8-8 5-10-6 5-10-6 6-5-3

Structural wood sheathing directly applied, except

2-0-0 oc purlins (2-2-0 max.): 5-10.

Rigid ceiling directly applied.

Scale = 1:87.5



9-8-1	1 _I 17-1-1	10 1 24-6	6-8 ₁ 30-4-14	1 36-3-5	42-8-8	46-0-0	
9-8-1	1 7-4-1	4 7-4-1	14 5-10-6	5-10-6	6-5-3	3-3-8	
Plate Offsets (X,Y) [2:0-0-14	1,0-2-1], [5:1-5-12,0-2-0], [6:	0-3-8,0-2-0], [10:1-3-12,	,0-2-8], [11:0-3-13,Edge], [12	:0-5-8,Edge], [15:0-3-	8,0-2-0], [17:Edge,	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- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TPI2	2-0-0 CSI. 1.15 TC 1.15 BC YES WB 014 Matri	0.99 Vert(LL' 0.94 Vert(CT 0.81 Horz(C' ix-AS	-0.84 15-16 >6) -1.51 15-16 >3	defl L/d 559 240 365 180 n/a n/a	PLATES MT20 MT20HS MT18HS Weight: 211 lb	GRIP 197/144 148/108 197/144 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x4 SP 2400F 2.0E *Except* TOP CHORD

1-5: 2x4 SPF No.2, 10-11: 2x6 SPF 2100F 1.8E

4-8-10

BOT CHORD 2x4 SPF No.2 *Except*

2-19: 2x4 SPF 1650F 1.5E, 14-16,12-14: 2x4 SP 2400F 2.0E

11-12: 2x6 SPF 2100F 1.8E

2x4 SPF No.2 *Except* **WEBS**

16-18: 2x4 SPF 1650F 1.5E SLIDER Left 2x4 SPF No.2 2-6-0

(size) 11=0-3-8, 2=0-3-8 REACTIONS. Max Horz 2=44(LC 14)

Max Uplift 11=-53(LC 8), 2=-67(LC 8)

Max Grav 11=2069(LC 2), 2=2132(LC 2)

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

TOP CHORD 2-4=-4098/162, 4-5=-4028/172, 5-6=-5435/266, 6-7=-7430/349, 7-9=-7524/348,

9-10=-6733/304, 10-11=-8286/270

BOT CHORD 2-20=-112/3688, 18-20=-97/3709, 17-18=-3/528, 7-16=-523/88, 15-16=-228/6733,

13-15=-135/4963, 12-13=-133/4974, 11-12=-196/7783

WEBS 4-20=-220/281, 5-20=0/278, 5-18=-110/2063, 6-18=-1593/145, 16-18=-194/5006,

6-16=-88/2131, 9-16=-51/907, 9-15=-908/105, 10-15=-108/2114, 10-13=0/324,

10-12=-62/3015

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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) 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) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 2.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and

Continuierenneshaterzdard ANSI/TPI 1.



June 24,2020



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/66 Woodsid	de
		,,	,	1		
2648535	A02	Hip	1	1		
2010000	7102	"P			Job Reference (opt	ional)
					Job Reference (opt	ionai)
Builders FirstSource (Valley	Center), Valley Center, K	S - 67147.	8	3.240 s Ma	r 9 2020 MiTek Indu	istries.

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEWS **DEVELOPMENT SERVICES**

8.240 s Mar 9 2020 MiTek Industries, Incl. Sus23MW21140V1125 QagR2

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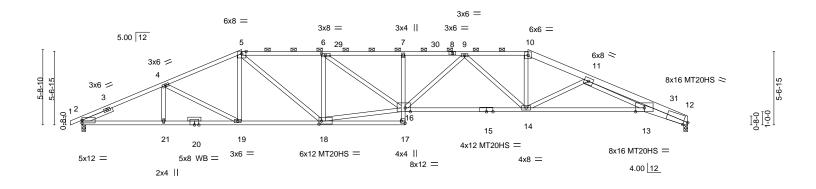
NOTES-NOTES12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

MiTek[®]

6-2-8

Scale = 1:87.5



4-6-4

4-9-12

4-5-0

Structural wood sheathing directly applied, except

2-0-0 oc purlins (2-2-0 max.): 5-10.

Rigid ceiling directly applied.

4-5-0

	6-2-8	12-1-8	18-4-0	24-6-8	33-10-8	42-8-8	46-0-0					
	6-2-8	5-11-0	6-2-8	6-2-8	9-4-0	8-10-0	3-3-8					
Plate Offsets (X,Y) [2:0-0-0,0-2-7], [6:0-3-8,0-1-8], [12:0-3-13,Edge], [16:0-4-12,Edge], [17:Edge,0-3-8], [18:0-2-4,0-2-12]												
Snow (Pf/Pg) 20.4/20 TCDL 1 BCLL	25.0 0.0 0.0 0.0 0.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TR	2-0-0 1.15 1.15 YES PI2014	CSI. TC 0.74 BC 1.00 WB 0.85 Matrix-AS	DEFL. in (Vert(LL) -0.65 14 Vert(CT) -1.27 14 Horz(CT) 0.44		PLATES MT20 MT20HS Weight: 212 lb	GRIP 197/144 148/108 FT = 20%				

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x4 SPF 1650F 1.5E *Except* TOP CHORD

10-12: 2x6 SPF 2100F 1.8E, 8-10: 2x4 SPF No.2

BOT CHORD 2x4 SP 2400F 2.0E *Except*

7-17,17-20: 2x4 SPF No.2, 15-16: 2x4 SPF 1650F 1.5E 12-13: 2x6 SPF 2100F 1.8E

5-11-0

6-2-8

WEBS 2x4 SPF No.2 *Except*

16-18: 2x4 SPF 1650F 1.5E

OTHERS 2x4 SPF No.2

SLIDER Left 2x4 SPF No.2 2-6-0

REACTIONS (size) 12=0-3-8, 2=0-3-8

Max Horz 2=54(LC 14)

Max Uplift 12=-37(LC 8), 2=-51(LC 8) Max Grav 12=2069(LC 2), 2=2132(LC 2)

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

TOP CHORD 2-4=-4127/115, 4-5=-3840/156, 5-6=-4351/204, 6-7=-5522/237, 7-9=-5565/234,

9-10=-4414/158, 10-11=-4784/161, 11-12=-8667/164 2-21=-67/3731, 19-21=-67/3731, 18-19=-62/3505, 17-18=-20/269, 7-16=-438/70,

14-16=-137/5166, 13-14=-114/5407, 12-13=-106/8157 4-19=-475/95, 5-19=0/367, 5-18=-66/1311, 6-18=-1418/114, 16-18=-93/4162, **WEBS**

6-16=-41/1423, 9-16=-5/661, 9-14=-1206/102, 10-14=-10/1484, 11-14=-1217/107,

11-13=0/3015

NOTES-

BOT CHORD

- 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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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); Pq=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) 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) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 2.

Continued on page 2



June 24,2020

MARNING - 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/66 Woodsid	de
2648535	A03	 Hip	1	1		
					Job Reference (opt	ional)

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW **DEVELOPMENT SERVICES**

8.240 s Mar 9 2020 MiTek Industries, Incl. 56 Sus23MM21T42W135 GagRE ID:tjnOHGeVPJTyi41JASwyTKzhfUX-SLjDcyuq?BUM2HzkwSFUOoEarsis1wnxK?ZgDAz3Qtt

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

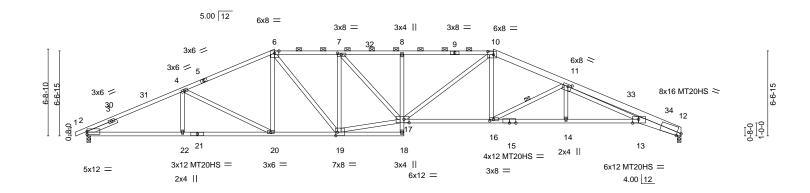
03/03/2021

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.

MiTek[®]



7-4 7-4	-14 14-6 -14 7-1-		0-6-6 -0-2	24-6-8 5-0-2	31-5-11 6-11-3	37-1-2 5-7-6		42-8-8 5-7-6	46-0-0 3-3-8	
Plate Offsets (X,Y) [2:0-0	0-0,0-2-11], [7:0-3-8,0-1-	3], [10:0-5-4,0-3-0], [11:0-3-6,0	-2-0], [12:0-3	3-13,Edge], [13:0-5	-8,Edge], [16:0-	-3-8,0-1-8	3], [17:0-4-12	2,0-3-4], [19:0-1-8,0-3-4]	
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0	SPACING- Plate Grip DO Lumber DOL Rep Stress Inc	1.15 or YES	CSI. TC BC WB	0.87 1.00 0.88	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.56 16-17 -1.05 16-17 0.43 12	l/defl >988 >526 n/a	L/d 240 180 n/a	PLATES MT20 MT20HS	GRIP 197/144 148/108
BCDL 10.0	Code IRC201	8/TPI2014	Matri	ix-AS					Weight: 215 lb	FT = 20%

BOT CHORD

WEBS

Structural wood sheathing directly applied, except

2-0-0 oc purlins (2-4-0 max.): 6-10.

Rigid ceiling directly applied.

1 Row at midpt

LUMBER-BRACING-TOP CHORD

2x4 SPF 1650F 1.5E *Except* TOP CHORD 10-12: 2x6 SPF 2100F 1.8E

BOT CHORD 2x4 SPF 1650F 1.5E *Except*

8-18,18-21: 2x4 SPF No.2, 12-13: 2x6 SPF 2100F 1.8E

13-15: 2x4 SP 2400F 2.0E

WEBS 2x4 SPF No.2 SLIDER Left 2x4 SPF No.2 2-6-0

REACTIONS. (size) 12=0-3-8, 2=0-3-8

Max Horz 2=63(LC 14) Max Uplift 12=-21(LC 8), 2=-35(LC 8)

Max Grav 12=2069(LC 2), 2=2132(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-4=-4145/87, 4-6=-3645/131, 6-7=-3710/158, 7-8=-4493/172, 8-10=-4534/174, TOP CHORD

10-11=-4324/138, 11-12=-8289/127

BOT CHORD 2-22=-34/3743, 20-22=-34/3743, 19-20=-20/3284, 8-17=-532/86, 16-17=-23/3943, 14-16=-42/5140, 13-14=-42/5140, 12-13=-65/7773

4-20=-701/109, 6-20=0/460, 6-19=-42/858, 7-19=-1224/81, 17-19=-30/3573, 7-17=-23/1154, 10-17=-49/932, 10-16=0/813, 11-16=-1486/95, 11-14=0/286,

11-13=-43/2847

NOTES-

WEBS

- 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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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) 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) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 2.
- 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.



June 24,2020 MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

SSIONAL

OF MISS

SCOTT M.

SEVIER

NUMBER

PE-2001018807

Scale = 1:89.2

🗥 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

Job	Truss	Truss Type	Qty	Ply	Summit/66 Woodsid	de
		, , , , , , , , , , , , , , , , , , ,	1	1		ĺ
2648535	A04	Hip	1	1		ĺ
2040000	7.0-7	1.112			Job Reference (opt	ional)
Duildoro FirotCourse (Valley	Cantar Valley Center V	C 674.47				
Builders FirstSource (Valley	Center), Valley Center, K	5-6/14/,	C	.240 S IVIA	r 9 2020 MiTek Indu	ismes,

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW **DEVELOPMENT SERVICES**

8.240 s Mar 9 2020 MiTek Industries, Incl. Sus23MW2114514155 QagR2

ID:tjnOHGeVPJTyi41JASwyTKzhfUX-twPME_xjl6sxvlhJbapB0Rs3x3jaEH8N1yoKqUz3Qtq

NOTES-NOTES12) 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.

MiTek[®]

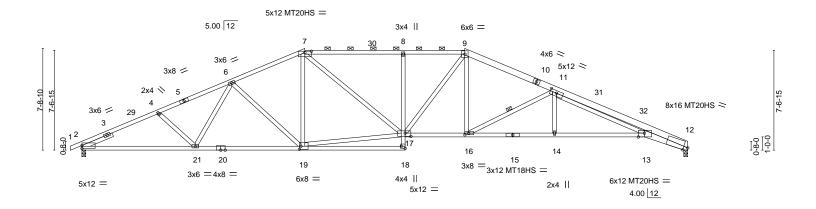


Structural wood sheathing directly applied, except

2-0-0 oc purlins (2-2-0 max.): 7-9.

Rigid ceiling directly applied.

1 Row at midpt



1 8-7-	5 , 16	S-11-2	24-6-	8 1	29-0-14	35-10-11	1	42-8-8	₁ 46-0-0 ₁	
8-7-	5 8	-3-13	7-7-	ĵ [']	4-6-6	6-9-13	1	6-9-13	3-3-8	
Plate Offsets (X,Y) [2:0-0	0,0-2-11], [7:0-6-0,0-1-5], [11:0-5-14,0-2-	4], [12:0-3-13	,Edge], [13:	0-5-8,Edge], [16:0-	3-8,0-1-8], [17	0-5-4,0-3	3-0], [18:Edge	e,0-3-8], [19:0-1-8,0-2-1	2]
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0 BCDI 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Inc Code IRC2018	1.15 r YES	CSI. TC BC WB Matri	0.85 0.95 0.74 x-AS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.52 16-17 -0.97 13-14 0.43 12	l/defl >999 >571 n/a	L/d 240 180 n/a	PLATES MT20 MT20HS MT18HS Weight: 220 lb	GRIP 197/144 148/108 197/144 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SPF 1650F 1.5E *Except*

5-7: 2x4 SPF No.2, 9-10: 2x6 SPF No.2, 10-12: 2x6 SPF 2100F 1.8E

BOT CHORD 2x4 SPF No.2 *Except*

5-10-1

5-6-9

2-20,15-17: 2x4 SPF 1650F 1.5E, 12-13: 2x6 SPF 2100F 1.8E

13-15: 2x4 SP 2400F 2.0E

WEBS 2x4 SPF No.2

SLIDER Left 2x4 SPF No.2 2-6-0

REACTIONS. (size) 2=0-3-8, 12=0-3-8

Max Horz 2=72(LC 14) Max Uplift 2=-33(LC 12), 12=-26(LC 13)

Max Grav 2=2132(LC 2), 12=2069(LC 2)

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

TOP CHORD 2-4=-4140/67, 4-6=-3963/62, 6-7=-3388/106, 7-8=-3800/130, 8-9=-3801/125,

9-11=-3964/101, 11-12=-8199/106 2-21=-81/3734, 19-21=-14/3494, 8-17=-623/94, 16-17=0/3536, 14-16=0/4888,

13-14=0/4888, 12-13=-30/7691 **WEBS**

6-21=0/330, 6-19=-728/107, 7-19=-10/353, 17-19=-2/2858, 7-17=-30/1087, 9-17=-38/645, 9-16=-2/869, 11-16=-1615/116, 11-14=0/342, 11-13=-71/3011

NOTES-

BOT CHORD

- 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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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.
- 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) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12.
- 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 Contistuestrookpages plied directly to the bottom chord.



Scale = 1:87.5

June 24,2020

M 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

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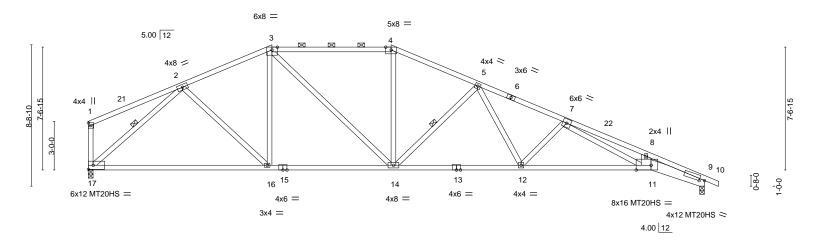
Job	Truss	Truss Type	Qty	Ply	Summit/66 Woodsid	de
2648535	A05	Нір	1	1		
					Job Reference (opt	ional)
Builders FirstSource (Valley	8	.240 s Ma	r 9 2020 MiTek Indu	stries		

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW **DEVELOPMENT SERVICES**

8.240 s Mar 9 2020 MiTek Industries, Incl. Lie Sustantial 148/4136 Plage D ID:tjnOHGeVPJTyi41JASwyTKzhfUX-HV4Ut0zbb1EWmCQuHiMue3UadHm3Rg2pjw0?Qpz3Qtn

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

03/03/2021



5-9-11	5-6-3	7-4-3	8-0-3	8-0-3	3-3-8	
Plate Offsets (X,Y) [9:0-3-11]	,0-1-6], [11:0-11-0,Edge]					
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 0.84 BC 0.86 WB 0.68 Matrix-AS	DEFL. in (loc Vert(LL) -0.38 11-12 Vert(CT) -0.75 11-12 Horz(CT) 0.24	2 >999 240	PLATES MT20 MT20HS Weight: 177 lb	GRIP 197/144 148/108 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-TOP CHORD

2x4 SPF No.2 *Except*

3-4: 2x4 SPF 1650F 1.5E, 6-10: 2x4 SP 2400F 2.0E

BOT CHORD 2x4 SPF 1650F 1.5E *Except*

9-11: 2x8 SP 2400F 2.0E, 13-15: 2x4 SPF No.2 2x4 SPF No.2 *Except*

WEBS 8-11: 2x8 SP 2400F 2.0E

REACTIONS. (size) 17=0-3-8, 9=0-3-8 Max Horz 17=-102(LC 8)

Max Uplift 17=-5(LC 12), 9=-55(LC 13) Max Grav 17=1709(LC 35), 9=1765(LC 2)

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

TOP CHORD $2-3=-2093/69,\ 3-4=-2236/87,\ 4-5=-2483/77,\ 5-7=-3696/102,\ 7-8=-6864/206,$

8-9=-7112/130, 1-17=-260/32

BOT CHORD 16-17=0/1608, 14-16=0/1877, 12-14=0/2910, 11-12=-30/3917, 9-11=-84/6601 WFBS

2-16=0/504, 3-14=-61/628, 4-14=0/533, 5-14=-1064/107, 5-12=-10/925, 7-12=-855/109,

7-11=-91/2763, 8-11=0/359, 2-17=-2037/53

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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) 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) 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 9.
- 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.
- 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.



Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (2-10-4 max.): 3-4.

Rigid ceiling directly applied.

1 Row at midpt

June 24,2020

Scale = 1:71.1

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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2-6-10

6-8-10



5-10-5

Structural wood sheathing directly applied, except end verticals, and

2-16, 3-16, 5-15, 8-12

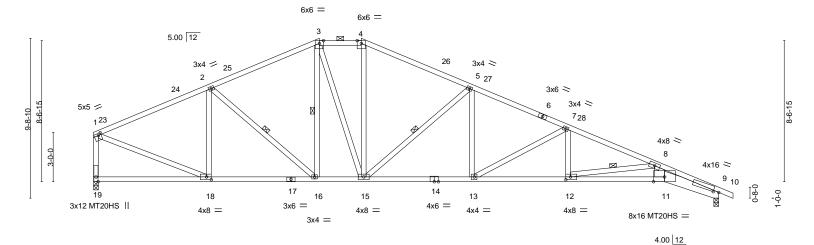
2-0-0 oc purlins (3-8-11 max.): 3-4.

Rigid ceiling directly applied.

1 Row at midpt

103/030-20238-10-8

Scale = 1:70.0



6-8-10

5-10-5

1	7-0-2	13-8-1	11 16	6-3-5	22-11	-15 _I	28.	-10-3	1	34-8-8	1 38-0-0	
	7-0-2	6-8-1	0 2-	!-6-10	6-8-1	10	5-	10-5	-	5-10-5	3-3-8	
Plate Offsets (X,Y)	[1:0-2-0,0-1-8], [9:0-3	-15,0-0-12], [12:0)-3-8,0-2-0], [18:	:0-3-8,0-	-2-0]							
Snow (Pf/Pg) 20.4/20 TCDL 1	5.0 Plate 0.0 Lumb	Grip DOL 1 er DOL 1 Stress Incr Y	0-0 .15 .15 (ES	BC WB	0.79 0.73 0.88	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.33 -0.62 0.22		l/defl >999 >734 n/a	L/d 240 180 n/a	PLATES MT20 MT20HS	GRIP 197/144 148/108
	0.0 Code	IRC2018/TPI20	14	Matrix-	-AS						Weight: 192 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

2x4 SPF No.2 TOP CHORD

BOT CHORD 2x4 SPF No.2 *Except*

9-11: 2x8 SP 2400F 2.0E, 11-14: 2x4 SP 2400F 2.0E 2x4 SPF No.2 *Except*

WEBS 8-11: 2x8 SP 2400F 2.0E

REACTIONS. (size) 19=0-3-8, 9=0-3-8 Max Horz 19=-108(LC 13)

Max Uplift 19=-18(LC 12), 9=-63(LC 13) Max Grav 19=1830(LC 35), 9=1765(LC 2)

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

TOP CHORD 1-2=-2158/37, 2-3=-2156/89, 3-4=-2008/109, 4-5=-2293/96, 5-7=-3292/111, 7-8=-4276/129, 8-9=-7139/196, 1-19=-1762/43

16-18=0/1909, 15-16=0/1883, 13-15=0/2958, 12-13=-33/3928, 11-12=-156/6064,

BOT CHORD 9-11=-150/6682

WFBS 2-18=-595/60, 3-15=-61/562, 4-15=-1/514, 5-15=-1237/110, 5-13=0/667, 7-13=-1154/88,

7-12=0/526, 8-12=-2279/124, 8-11=0/1459, 1-18=0/1967

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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) 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) 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 9.
- 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.
- 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.



June 24,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



RELEASE FOR Job Truss Truss Type Qty Summit/66 Woodside CONSTRUCTION AS NOTED ON PLANS RE 2648535 B₀3 Roof Special 2 **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES 8.240 s Mar 9 2020 MiTek Industries, Incl. Libr 5.18231109115311136 GUEL Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-eSuNwj1kPZtpszlr3Fy3L6CSklTo6zlYsCkl61z3Qti 29-1-12 1-0-1 15-0-0 21-6-13 28-1-11 34-8-8 **03/03/2021** 38-10₇8 3-3-8 0-10-8 22-5-2 0-10-5 7-6-14 6-6-13 5-8-9 5-6-12 7-5-2 Scale = 1:65.9 6x6 = 5.00 12 4

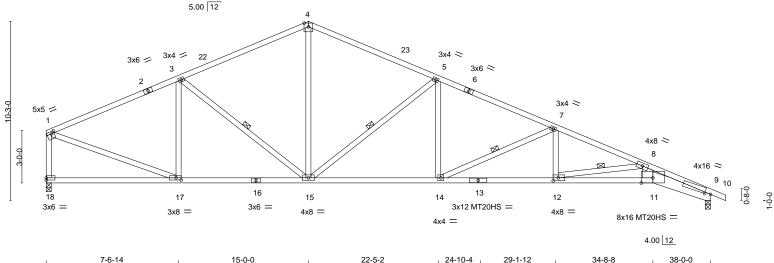


Plate Offsets (X, Y) [1:0-2-0,0	<u>0-1-8], [9:0-3-15,0-0-12], [12:0-3-8,0-2-0</u>)], [17:0-3-8,0-1-8]		
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.76 BC 0.92 WB 0.52 Matrix-AS	DEFL. in (loc) l/defl L/d Vert(LL) -0.34 11-12 >999 240 Vert(CT) -0.62 11-12 >736 180 Horz(CT) 0.23 9 n/a n/a	PLATES GRIP MT20 197/144 MT20HS 148/108 Weight: 176 lb FT = 20%
BCDL 10.0	0000 11(02010/11 12014	Wattix 710		Weight: 170 lb 11 = 2070

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

2x4 SPF No.2 TOP CHORD

2x4 SPF No.2 *Except* **BOT CHORD**

9-11: 2x8 SP 2400F 2.0E, 11-13: 2x4 SP 2400F 2.0E

2x4 SPF No.2 *Except* WEBS 8-11: 2x8 SP 2400F 2.0E

REACTIONS. (size) 18=0-3-8, 9=0-3-8

Max Horz 18=-114(LC 13)

Max Uplift 18=-24(LC 12), 9=-67(LC 13) Max Grav 18=1703(LC 2), 9=1765(LC 2)

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

1-3=-2055/51, 3-4=-2007/114, 1-18=-1629/51, 4-5=-2004/101, 5-7=-3043/120, TOP CHORD

7-8=-4240/142, 8-9=-7115/214

15-17=0/1814, 14-15=0/2729, 12-14=-48/3885, 11-12=-165/6031, 9-11=-165/6653 **BOT CHORD** WEBS 3-17=-493/65, 3-15=-269/163, 4-15=-9/971, 8-11=0/1463, 1-17=0/1837, 5-14=0/658,

5-15=-1242/125, 7-12=0/534, 7-14=-1269/96, 8-12=-2174/119

- 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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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) All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 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.



Structural wood sheathing directly applied, except end verticals.

3-15, 5-15, 7-14, 8-12

Rigid ceiling directly applied.

1 Row at midpt

June 24,2020



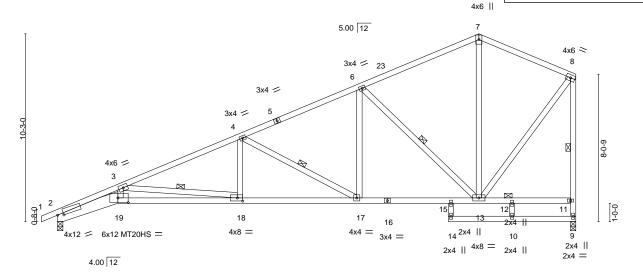
M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE

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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



RELEASE FOR Job Truss Truss Type Qty Summit/66 Woodside CONSTRUCTION AS NOTED ON PLANS RE 2648535 C01 Roof Special **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES 8.240 s Mar 9 2020 MiTek Industries, Incl. Libr 5.182311092115912150 04421 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-ar?8LP3_xB7W6HSEBg_XQXHqS597aujrKWDsAvz3Qtg 21-4-0 23-0-0 28-3-8 - 03/03/2021 6-8-0 5-4-5 1-1-15 4-10-4 1-8-0 Scale = 1:62.9



	₁ 3-3-8 ₁	9-11-8	15-3-13	1 ₆ -5-12	21-4-0	23-0-0 24-9-12	28-3-8	- 1
	3-3-8	6-8-0	5-4-5	1-1-15	4-10-4	1-8-0 1-9-12	3-5-12	
Plate Offsets (X,Y)	[2:0-3-15,0-1-2], [18:0	-3-8,0-2-0], [19:0-6-12,0-3-0]						

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 0.62 BC 0.93 WB 0.49 Matrix-AS	DEFL. in (loc) l/defl L/d Vert(LL) -0.28 18-19 >999 240 Vert(CT) -0.53 18-19 >634 180 Horz(CT) 0.24 9 n/a n/a	PLATES GRIP MT20 197/144 MT20HS 148/108 Weight: 149 lb FT = 20%
BCDL 10.0	Code IRC2018/1712014	Matrix-A5		Weight: 149 lb FT = 20%

BRACING-

WEBS

JOINTS

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

2-19: 2x8 SP 2400F 2.0E, 16-19: 2x4 SPF 1650F 1.5E

WEBS 2x4 SPF No.2

(size) 2=0-3-8, 9=0-3-8

Max Horz 2=217(LC 12) Max Uplift 2=-41(LC 12), 9=-61(LC 12) Max Grav 2=1329(LC 2), 9=1266(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-5190/365, 3-4=-2687/121, 4-6=-1646/80, 6-7=-766/58, 7-8=-734/69, TOP CHORD

9-11=-1236/73 8-11=-1220/78

BOT CHORD $2-19 = -534/4864, \ 18-19 = -514/4567, \ 17-18 = -239/2433, \ 15-17 = -129/1436, \ 13-15 = -128/1448$ **WEBS**

3-19=-61/1074, 8-13=-63/1006, 6-13=-1134/127, 6-17=-3/656, 4-17=-1133/124,

4-18=0/472, 3-18=-2150/277

- 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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left exposed; 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)
- 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) 2 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 100 lb uplift at joint(s) 2, 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.



Structural wood sheathing directly applied, except end verticals.

8-9, 6-13, 4-17, 3-18

Rigid ceiling directly applied.

1 Row at midpt

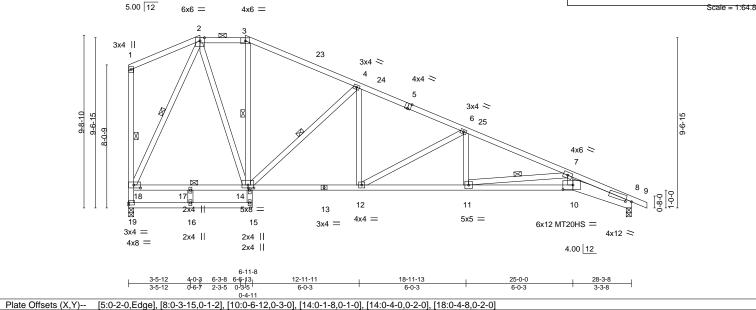
1 Brace at Jt(s): 12







RELEASE FOR Job Truss Truss Type Qty Summit/66 Woodside CONSTRUCTION AS NOTED ON PLANS RE HIP 2648535 C02 **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES 8.240 s Mar 9 2020 MiTek Industries, Incl. Libr 5.182311091153011350113501136 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-_QhGzQ5tE6V5zlBpspYE2AvL4JAvn9PH0URWnEz3Qtd 12-11-11 6-0-3 6-6-13 6-11-8 2-6-10 0-4-11 18-11-13 ²⁹⁻²⁻03/03/2021 6-0-3



LOADING (psf)		 	

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	CSI. TC 0.59 BC 0.92 WB 0.87	DEFL. in (loc) l/defl L/d Vert(LL) -0.44 15 >768 240 Vert(CT) -0.92 15 >368 180 Horz(CT) 0.22 8 n/a n/a	PLATES GRIP MT20 197/144 MT20HS 148/108
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 156 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

JOINTS

LUMBER-

REACTIONS.

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

2x4 SPF No.2 *Except* 8-10: 2x8 SP 2400F 2.0E, 10-13: 2x4 SPF 1650F 1.5E

2x4 SPF No.2

WEBS

(size) 19=0-3-8, 8=0-3-8

Max Horz 19=-237(LC 10)

Max Uplift 19=-11(LC 13), 8=-50(LC 13) Max Grav 19=1363(LC 35), 8=1341(LC 2)

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

TOP CHORD 2-3=-848/69, 3-4=-1027/54, 4-6=-1935/75, 6-7=-2852/86, 7-8=-5210/146,

18-19=-1365/1

BOT CHORD 17-18=0/538, 14-17=0/538, 12-14=0/1701, 11-12=0/2610, 10-11=-113/4573,

8-10=-106/4875

WFBS 4-14=-1157/118, 4-12=0/608, 6-12=-1085/84, 6-11=0/470, 7-11=-2020/121, 7-10=0/1083,

2-18=-1224/22, 2-14=-27/1008, 16-17=0/282

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; Cat. II; Exp C; Enclosed: MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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) 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) 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 8.
- 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.
- 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.



Structural wood sheathing directly applied, except end verticals, and

4-14, 7-11, 1-19, 2-18, 3-14

2-0-0 oc purlins (6-0-0 max.): 2-3.

10-0-0 oc bracing: 14-17

1 Row at midpt

1 Brace at Jt(s): 17

Rigid ceiling directly applied. Except:

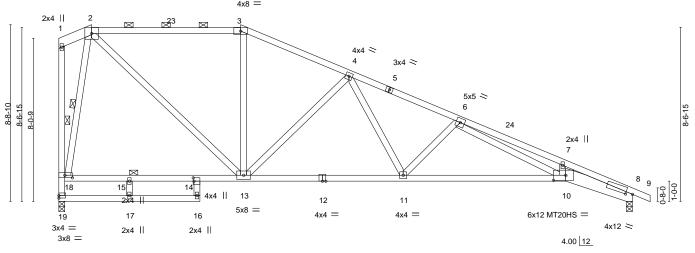
June 24,2020

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<u>16-11</u>-13 1-7-6 6-11-8 8-11-10 25-0-0 28-3-8 1-10-6

Plate Offsets (X,Y)	[8:0-3-15,0-1-2], [1	0:0-7-4,0-3-0],	[14:0-2-0,0-0-8],	[18:0-4-8,0-1-8]

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	CSI. TC 1.00 BC 0.90 WB 0.97	DEFL. in (loc) l/defl L/d Vert(LL) -0.30 10-11 >999 240 Vert(CT) -0.62 10-11 >545 180 Horz(CT) 0.18 8 n/a n/a	PLATES GRIP MT20 197/144 MT20HS 148/108
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 148 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

JOINTS

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD 1-2: 2x6 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except*

8-10: 2x8 SP 2400F 2.0E WEBS 2x4 SPF No.2

REACTIONS. (size) 19=0-3-8, 8=0-3-8

Max Horz 19=-201(LC 13) Max Uplift 19=-39(LC 8), 8=-38(LC 13)

Max Grav 19=1266(LC 2), 8=1329(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1100/40, 3-4=-1248/26, 4-6=-2411/52, 6-7=-5013/126, 7-8=-5123/56,

18-19=-1210/54

13-14=0/296, 11-13=0/1757, 10-11=0/2662, 8-10=-18/4757 **BOT CHORD**

4-13=-1027/108, 4-11=-10/837, 6-11=-758/104, 6-10=-63/2261, 2-18=-1316/92, **WEBS**

- 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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical right exposed; 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) 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) 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 8. 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.



Structural wood sheathing directly applied, except end verticals, and

1-19, 2-18

2-0-0 oc purlins (3-9-12 max.): 2-3.

Rigid ceiling directly applied.

1 Row at midpt

1 Brace at Jt(s): 15

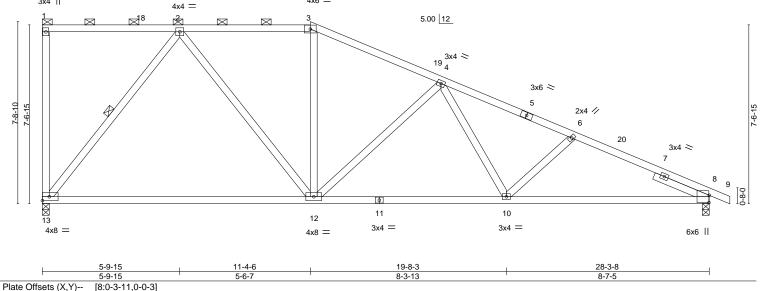
June 24,2020

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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



RELEASE FOR Job Truss Truss Type Qty Summit/66 Woodside CONSTRUCTION AS NOTED ON PLANS RE 2648535 C04 Half Hip **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES 8.240 s Mar 9 2020 MiTek Industries, Incl. Etc. S. 523 MM 27 1413 COLUMN 1413 CO Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-P?NPb\$7IX1tgqCvOXx5xfoXt2WCX_XfkiSgBOZz3Qta 16-10-15 28-3<mark>03/03/2021</mark> 5-10-1 5-9-15 5-6-7 5-6-9 5-6-9 Scale = 1:48.9 3x4 || 4x6 =



LOADING (psf) SPACING-2-0-0 CSI. **DEFL** (loc) I/defl L/d **PLATES** GRIP TCLL (roof) 25.0Plate Grip DOL 1.15 TC 0.55 Vert(LL) -0.43 12-13 >780 240 MT20 197/144 Snow (Pf/Pg) 20.4/20.0 Lumber DOL 1.15 BC 0.92 Vert(CT) -0.88 12-13 >385 180 TCDL 10.0 Rep Stress Incr YES WB 0.78 Horz(CT) 0.06 8 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Weight: 125 lb FT = 20%Matrix-AS BCDL 10.0

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

2x4 SPF No.2 TOP CHORD

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

SLIDER Right 2x4 SPF No.2 2-6-0

REACTIONS. (size) 13=0-3-8, 8=0-3-8 Max Horz 13=-221(LC 10)

Max Uplift 13=-67(LC 8), 8=-47(LC 13)

Max Grav 13=1266(LC 2), 8=1329(LC 2)

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

2-3=-1217/78, 3-4=-1393/68, 4-6=-2115/90, 6-8=-2329/100 TOP CHORD

BOT CHORD 12-13=0/796. 10-12=0/1712. 8-10=-40/2100

WEBS 2-13=-1249/107, 2-12=-16/764, 4-12=-801/111, 4-10=-1/389, 6-10=-315/91

- 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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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 100 lb uplift at joint(s) 13, 8.
- 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.



Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (4-11-13 max.): 1-3.

Rigid ceiling directly applied.

1 Row at midpt

June 24,2020





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 chore 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



Job Truss Truss Type Qty Summit/66 Woodside 2648535 C05 Half Hip Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS RE **DEVELOPMENT SERVICES**

Job Reference (optional) DEVELOPMENT SERVICES
8.240 s Mar 9 2020 MiTek Industries, Incl. Lib. 3.823MM22044135 GUEL

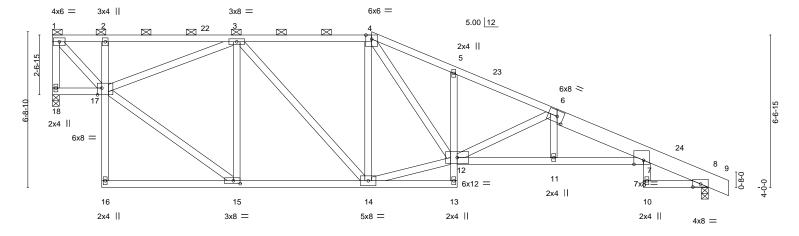
Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (4-6-5 max.): 1-4.

Rigid ceiling directly applied.

ID:tjnOHGeVPJTyi41JASwyTKzhfUX-pa2YDU9epyFFhgezD3feHR9MTkFkBzyAOQur?uz3QtX 23-3-5 24-4-8 25-6-0 **03/83/2021** 29-2-0 1-9-9 1-1-3 1-1-8 2-9-8 0-10-8 13-9-3 17-5-8 21-5-12 5-9-14 5-9-14 3-8-5 4-0-4

Scale = 1:49.7



2-1-8	7-11-6	13	3-9-3	17-5-8	21	-5-12	1	25-6-0	₁ 28-3-8	
2-1-8	5-9-14	5-	9-14	3-8-5	4	-0-4		4-0-4	2-9-8	
Plate Offsets (X,Y) [6:0-3-4,	0-3-0], [7:0-5-0,Edge], [8:	0-4-0,0-1-9], [1	5:0-3-8,0-1-8], [17	':0-2-4,Edge]						
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TI	2-0-0 1.15 1.15 YES PI2014	CSI. TC 0.66 BC 0.83 WB 0.49 Matrix-AS	Vert(CT	in -0.26) -0.47) 0.15	(loc) 7-11 7-11 8	l/defl >999 >721 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 157 lb	GRIP 197/144 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x4 SPF No.2 *Except* 6-9: 2x8 SP 2400F 2.0E **BOT CHORD** 2x4 SPF No.2 *Except*

7-12: 2x4 SPF 1650F 1.5E

WEBS 2x4 SPF No.2

REACTIONS. (size) 18=0-3-8, 8=0-3-8

Max Horz 18=-146(LC 8)

Max Uplift 18=-44(LC 8), 8=-55(LC 13) Max Grav 18=1266(LC 2), 8=1329(LC 2)

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

TOP CHORD 1-18=-1200/50, 1-2=-1090/56, 2-3=-1125/64, 3-4=-1422/102, 4-5=-2335/139,

5-6=-2410/98, 6-7=-3210/112, 7-8=-485/44

BOT CHORD 2-17=-337/59, 14-15=0/1180, 5-12=-275/71, 11-12=-41/3147, 7-11=-45/3157 **WEBS**

1-17=-61/1565, 15-17=0/1421, 3-15=-696/47, 3-14=-19/472, 4-14=-561/38,

12-14=0/1353, 4-12=-65/1352, 6-12=-1164/72

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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 100 lb uplift at joint(s) 18, 8.
- 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.

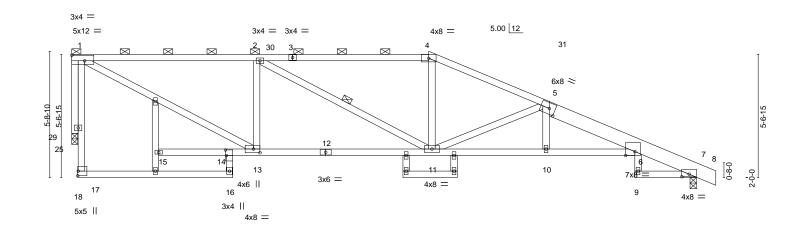


June 24,2020



3-4-4

1-1-0



4-0-4

3-3-4

0 ₁ 3 _T 4 3-9-	8 7-3-8	8-4-8	15-0-0	16-2-0 17-5-8	21-5-12		25-6-0	28-3-8	ı
0-3-4 3-6-	4 3-6-0	1-1-0	6-7-8	1-2-0 1-3-8	4-0-4	- 1	4-0-4	2-9-8	<u> </u>
Plate Offsets (X,Y) [1:Edg	e,0-3-0], [5:0-3-4,0-3-0], [6	:0-5-0,Edge], [7:0-4-0,0-1-5], [13:0-3-8,0	-2-0], [14:0-3-0,0-0	0-8]				
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0	SPACING- Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15	CSI. TC 0.92 BC 0.82	DEFL. Vert(LL) Vert(CT)	in (loc) -0.35 15 -0.69 15	l/defl >966 >487	L/d 240 180	PLATES MT20	GRIP 197/144
TCDL 10.0 BCLL 0.0 BCDL 10.0	Rep Stress Incr Code IRC2018/T	YES	WB 0.68 Matrix-AS	Horz(CT)	0.25 7	n/a	n/a	Weight: 144 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-TOP CHORD

2x4 SPF No.2 *Except*

1-3: 2x4 SPF 1650F 1.5E, 5-8: 2x8 SP 2400F 2.0E

BOT CHORD 2x4 SPF No.2 *Except*

6-12: 2x4 SPF 1650F 1.5E

WEBS 2x4 SPF No.2

2x4 SPF No.2 **OTHERS**

REACTIONS. (size) 7=0-3-8, 29=0-3-4

Max Horz 29=-122(LC 8)

Max Uplift 7=-27(LC 13), 29=-32(LC 9) Max Grav 7=1341(LC 2), 29=1347(LC 31)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-1929/76, 2-4=-2104/71, 4-5=-2356/64, 5-6=-3214/37, 6-7=-490/32

11-13=0/1929, 10-11=0/3145, 6-10=0/3156 **BOT CHORD**

4-11=0/476, 5-11=-1250/92, 2-11=-62/407, 2-13=-742/114, 1-13=-41/2024, **WEBS**

1-29=-1356/33

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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) All plates are 2x4 MT20 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) Bearing at joint(s) 29 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 29.
- 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.



Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (2-2-0 max.): 1-4.

Rigid ceiling directly applied.

1 Row at midpt

+ **03/03/2021** 29-2-0

Scale = 1:52.2

June 24,2020



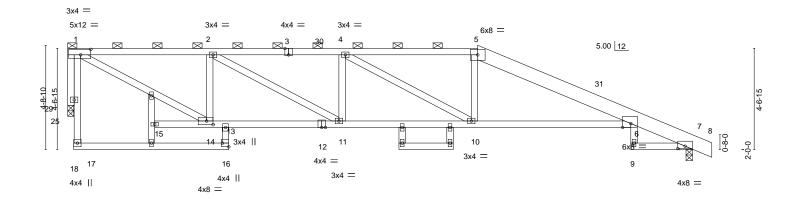
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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 chorembers 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 sand truss systems, see

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



RELEASE FOR Job Truss Truss Type Qty Summit/66 Woodside CONSTRUCTION AS NOTED ON PLANS RE 2648535 C07 Half Hip **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.240 s Mar 9 2020 MiTek Industries, Incl. Libr 5.1823MW220941135 GUEL Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-iLI23rD8tAmgAHykSvjaRHJ0lLa57ltmJ1s28fz3QtT 18-6-13 1-1-5 12-9-6 17-5-8 25-6-0 7-3-8 0-10-5 5-5-14 2-2-10 2-5-8 6-11-3 Scale = 1:52.2



$0_{7}3_{7}4$ 3-9-8	₁ 6-5-3 7-3-8	12-9-6 ₁ 15-0-0) _i 17-5-8	18-6-13	25-6-0	₁ 28-3-8
0-3-4 3-6-4	¹ 2-7-11 0-10-5	5-5-14 2-2-10) 2-5-8	1-1-5	6-11-3	2-9-8
Plate Offsets (X,Y) [1:0-5-8,0	0-3-0], [3:0-2-0,Edge], [6:0-4-8,Edge], [7:0-4-0,0-1-5], [14:0-3-8,0-	2-0], [16:Edge,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- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.71 BC 0.99 WB 0.55 Matrix-AS	DEFL. Vert(LL) Vert(CT) Horz(CT)	-0.39 è	(loc) I/defl L/d 6-10 >871 240 6-10 >456 180 7 n/a n/a	PLATES GRIP MT20 197/144 Weight: 141 lb FT = 20%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

2x4 SPF No.2 *Except* TOP CHORD

5-8: 2x8 SP 2400F 2.0E

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

OTHERS 2x4 SPF No.2

(size) 7=0-3-8, 29=0-3-4

Max Horz 29=-103(LC 8)

Max Uplift 7=-28(LC 9), 29=-41(LC 9) Max Grav 7=1338(LC 2), 29=1388(LC 31)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-2131/100, 2-4=-2873/123, 4-5=-2599/95, 5-6=-2738/89, 6-7=-488/32 **BOT CHORD** 13-14=-56/1980, 11-13=-17/2131, 10-11=-41/2873, 6-10=-15/2594

WEBS 5-10=0/297, 4-11=-307/69, 4-10=-455/109, 2-14=-945/93, 1-14=-64/2258, 2-11=-27/887,

1-29=-1403/42

REACTIONS.

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; enveloped; cantilever left and right exposed; 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=20.4 psf (Lum DOL=1.15 Plate DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.
- 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) 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) Provide adequate drainage to prevent water ponding.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 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) 29 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 100 lb uplift at joint(s) 7, 29.
- 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.



Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (3-0-6 max.): 1-5.

10-0-0 oc bracing: 10-11

Rigid ceiling directly applied. Except:

June 24,2020



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 chore 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



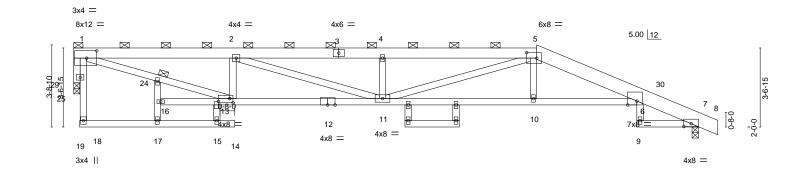
RELEASE FOR Job Truss Truss Type Qty Summit/66 Woodside 2648535 C08 Half Hip Job Reference (optional) DEVELOPMENT SERVICES
8.240 s Mar 9 2020 MiTek Industries, Incl. Libr 5.1823MW22.094135 04481 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

6-8-5

CONSTRUCTION AS NOTED ON PLANS RE **DEVELOPMENT SERVICES**

ID:tjnOHGeVPJTyi41JASwyTKzhfUX-AXsRHBDmeUuXnRXw?cEp_UsC2lx8s59vYhccg5z3QtS 15-0-0 17-5-8 2-5-8 20-11-10 + 03/03/2021 29-2-0 3-6-2

Scale = 1:52.2



				7-3-8							
0 ₁ 3 ₁ 4	3-9-8	1	6-7-8	7-2-8	13-11-13	₁ 15-0-0 ₁	17-5-8	20-11-10	25-6-0	28-3-8 I	
0 ¹ 3 ¹ 4	3-6-4	1	2-10-0	0-7-d	6-8-5	1-0-3	2-5-8	3-6-2	4-6-6	2-9-8	
				0-1-0							
oto (V V)	[1·0 E 9 0 4	01 [5:0	5002	1 I G · O E O I	Edgo] [7:0 4 0 0 1 0] [12:	1 1 2 0 6 41 1	12.0 1 12	0.2.41			

Plate Offsets (X, Y) [1:0-5-8,	<u>0-4-0], [5:0-5-8,0-3-0], [6:0-5-0,Edge], [7</u>	1:0-4-0,0-1-9], [13:0-1-8,0	J-6-4J, [13:0-1-12,0-2-4]	
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	CSI. TC 0.67 BC 0.94 WB 1.00	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) -0.40 11-13 >847 240 MT20 197/1 Vert(CT) -0.71 11-13 >476 180 Horz(CT) 0.28 7 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS	Weight: 144 lb FT =	= 20%

LUMBER-BRACING-

2x6 SPF No.2 *Except* TOP CHORD TOP CHORD Structural wood sheathing directly applied, except end verticals, and

5-8: 2x8 SP 2400F 2.0E 2-0-0 oc purlins (3-1-0 max.): 1-5. 2x4 SPF No.2 *Except* **BOT CHORD** Rigid ceiling directly applied. Except:

6-12: 2x4 SPF 1650F 1.5E 10-0-0 oc bracing: 10-11

WEBS 2x4 SPF No.2 **JOINTS** 1 Brace at Jt(s): 24, 1 2x4 SPF No.2 **OTHERS**

REACTIONS. (size) 7=0-3-8, 29=0-3-4

Max Horz 29=-84(LC 13)

Max Uplift 7=-46(LC 9), 29=-62(LC 8) Max Grav 7=1330(LC 2), 29=1388(LC 31)

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

TOP CHORD 1-2=-3473/184, 2-4=-4469/214, 4-5=-4469/214, 5-6=-3373/140, 6-7=-485/40

BOT CHORD 13-16=-0/297, 11-13=-122/3473, 10-11=-79/3307, 6-10=-84/3314 **WEBS**

4-11=-549/94, 5-11=-80/1219, 2-13=-936/104, 1-24=-145/3483, 13-24=-146/3318,

2-11=-32/1048, 1-29=-1434/65

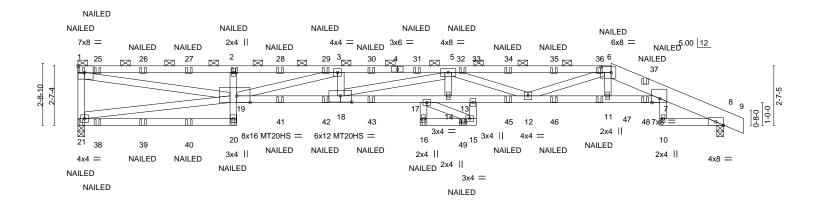
NOTES-

BOT CHORD

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed;
- MWFRS (envelope); cantilever left and right exposed; end vertical right exposed; 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=20.4 psf (Lum DOL=1.15 Plate DOL=1.15) 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) 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) Provide adequate drainage to prevent water ponding.
- 6) All plates are 2x4 MT20 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) 29 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 100 lb uplift at joint(s) 7, 29.
- 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.







3-7-8	6-11-8	11-6-4	15-0-0	16-2-12 17-5-8	19-8-11	23-4-6	25-6-0	28-3-8	_
3-7-8	3-4-0	4-6-12	3-5-12	1-2-12 1-2-12	2-3-3	3-7-11	2-1-10	2-9-8	1
Plate Offsets (X,Y) [6:0-5	5-8,0-3-0], [7:0-4-4,Edge], [8:Edge,0-1-13],	[18:0-6-0,0-3-4], [19:0-7-0),Edge]					
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0	SPACING- Plate Grip DC Lumber DOL Rep Stress In	1.15	CSI. TC 0.89 BC 0.99 WB 0.88	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.66 17-18 -1.11 17-18 0.37 8	l/defl L/d >514 240 >305 180 n/a n/a		PLATES MT20 MT20HS	GRIP 197/144 148/108
BCLL 0.0 BCDL 10.0	Code IRC20	18/TPI2014	Matrix-MS					Weight: 272 lb	FT = 20%

BOT CHORD

LUMBER-BRACING-TOP CHORD TOP CHORD

2x4 SPF 1650F 1.5E *Except* 6-9: 2x8 SP 2400F 2.0E, 4-6: 2x4 SP 2400F 2.0E

BOT CHORD 2x4 SPF No.2 *Except*

18-19: 2x4 SPF 1650F 1.5E, 7-18: 2x4 SP 2400F 2.0E

WEBS 2x4 SPF No.2

REACTIONS. (size) 21=0-3-8, 8=0-3-8

Max Horz 21=-73(LC 10)

Max Uplift 21=-208(LC 8), 8=-182(LC 9) Max Grav 21=2081(LC 31), 8=1794(LC 2)

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

TOP CHORD 1-21=-1836/249, 1-2=-7190/775, 2-3=-7691/799, 3-5=-10021/1049, 5-6=-8465/867,

6-7=-6078/624, 7-8=-704/97

BOT CHORD 20-21=-34/730, 2-19=-626/140, 18-19=-999/10026, 17-18=-1027/10197, 14-17=-997/9906,

13-14=-1002/9884, 12-13=-1031/10175, 11-12=-592/6171, 7-11=-599/6236

19-21=-579/77, 1-19=-760/7168, 3-19=-2424/270, 3-18=-13/323, 5-18=-275/40, WFBS

5-12=-1845/232, 6-11=-312/43, 6-12=-245/2438

NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x4 1 row at 0-7-0 oc, 2x8 2 rows staggered at 0-9-0 oc.

Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 4) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pq=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.
- 5) Unbalanced snow loads have been considered for this design.
- 6) 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.
- 7) Provide adequate drainage to prevent water ponding.
- 8) All plates are MT20 plates unless otherwise indicated
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 21=208, 8=182,
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and Continuiere nagolasia nadard ANSI/TPI 1



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

except end verticals, and 2-0-0 oc purlins (4-3-4 max.): 1-6.

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

6-0-0 oc bracing: 16-17,13-15.

June 24,2020

Scale = 1:50.5

🗥 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/66 Woodsid	de
2648535	C09	Half Hip Girder	1	2	Job Reference (opt	ional)
Builders FirstSource (Valley	Center), Valley Center, K	S - 67147,	8	.240 s Mai	r 9 2020 MiTek Indu	stries

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW **DEVELOPMENT SERVICES**

03/03/2021

8.240 s Mar 9 2020 MiTek Industries, Incl. 523M00227130135 Old RD

ID:tjnOHGeVPJTyi41JASwyTKzhfUX-PGuqAGKQWF0GMpjf1?vwrOkiLN_YTCGEcbHaU4z3QtJ

Valley Center, KS - 67147,

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

13) "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: 1-6=-61, 6-9=-51, 20-21=-20, 17-19=-20, 7-13=-20, 15-16=-20, 10-22=-20 Concentrated Loads (lb)

Vert: 21=-35(B) 1=-88(B) 20=-27(B) 2=-64(B) 17=-53(B) 25=-72(B) 26=-64(B) 27=-64(B) 28=-40(B) 29=-40(B) 30=-40(B) 31=-40(B) 33=-68(B) 34=-36(B) 35=-36(B) 36=-38(B) 37=-75(B) 38=-30(B) 39=-27(B) 40=-27(B) 41=-53(B) 42=-53(B) 43=-53(B) 44=-25(B) 45=-57(B) 46=-57(B) 47=-57(B) 48=-107(B)

RELEASE FOR Job Truss Truss Type Qty Summit/66 Woodside CONSTRUCTION AS NOTED ON PLANS RE 2648535 D01 **GABLE DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES 8.240 s Mar 9 2020 MiTek Industries, Incl. Libr 5.1823MW22.234135 GAUST Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-IEijD_OYLnfYTbbdqZU5YRRkvOwh8fpzmt?LAHz3QtE 20-0-0 -0-10-8 0-10-8 **03/03/2021** 14-1-12 4x4 = Scale = 1:47.1

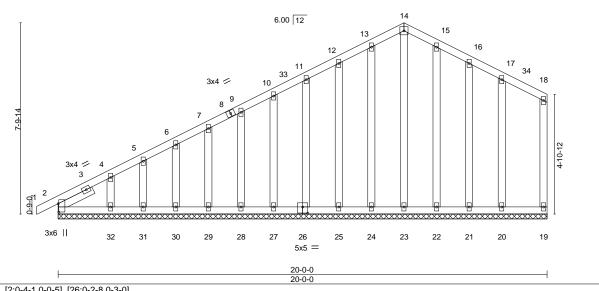


Plate Offsets (X,Y) [2:0-4-1,0-0-5], [26:0-2-8,0-3-0]										
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCDL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.07 BC 0.03 WB 0.09 Matrix-S	Vert(CT) 0	in (loc) 0.00 1 0.00 1 0.00 19	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20 Weight: 126 lb	GRIP 197/144 FT = 20%		

TOP CHORD

LUMBER-BRACING-

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

WEBS 2x4 SPF No.2 **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing. 2x4 SPF No.2 **OTHERS**

SLIDER Left 2x4 SPF No.2 1-7-3

REACTIONS. All bearings 20-0-0.

Max Horz 2=167(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 19, 2, 26, 23, 24, 25, 27, 28, 29, 30, 31, 32, 22, 21, 20 Max Grav All reactions 250 lb or less at joint(s) 19, 2, 26, 23, 24, 25, 27, 28, 29, 30, 31, 32, 22, 21, 20

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) 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
- 5) Unbalanced snow loads have been considered for this design.
- 6) 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.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 9) Gable studs spaced at 1-4-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 2, 26, 23, 24, 25, 27, 28, 29, 30, 31, 32, 22, 21, 20.
- 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.



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

except end verticals.







RELEASE FOR Job Truss Truss Type Qty Summit/66 Woodside CONSTRUCTION AS NOTED ON PLANS RE 2648535 D02 **COMMON GIRDER DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.240 s Mar 9 2020 MiTek Industries, Incl. Lib. 3.823MW22.240135 GUEL Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-EQG5QJPB65nP4kApOG0K5f_lgo9ltxC6_Xkuikz3QtD 20-0-0 03/03/2021 7-2-10 6-11-2 5-10-4 4x6 = Scale = 1:46.3 6.00 12 15 4x6 ≥ 5 3x4 / 3 0-6-0 \bigotimes 8 9 7 3x4 =2x4 || 2x4 || 3x8 =3x8 || 14-1-12 20-0-0 6-11-2 Plate Offsets (X,Y)-- [1:0-3-8,Edge] LOADING (psf) SPACING-DEFL. 2-0-0 CSI. (loc) I/defl L/d **PLATES** GRIP TCLL (roof) 25.0Plate Grip DOL 1.15 TC 0.71 Vert(LL) -0.04 7-9 >999 240 MT20 197/144 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 BC 0.45 Vert(CT) -0.10 7-9 >999 180 TCDL 10.0 Rep Stress Incr NO WB 0.79 Horz(CT) 0.03 6 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 FT = 20% Matrix-MS Weight: 86 lb BCDL 10.0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2

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

SLIDER Left 2x4 SPF No.2 2-6-0

REACTIONS.

(size) 1=0-3-8, 6=0-3-8 Max Horz 1=163(LC 11)

Max Uplift 1=-28(LC 12), 6=-19(LC 12) Max Grav 1=893(LC 2), 6=893(LC 2)

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

1-3=-1152/64, 3-4=-691/64, 4-5=-657/78, 5-6=-844/40 TOP CHORD **BOT CHORD** 1-9=-66/1105. 7-9=-66/1105

WEBS 3-9=0/278, 3-7=-703/110, 5-7=-3/635

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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

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

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, 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.



Structural wood sheathing directly applied or 4-11-7 oc purlins,

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

except end verticals.





RELEASE FOR Job Truss Truss Type Qty Summit/66 Woodside CONSTRUCTION AS NOTED ON PLANS RE 2648535 D03 Common 2 **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES 8.240 s Mar 9 2020 MiTek Industries, Incl. Etc. S. 523 MM 22 20 Uto S Out 10 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-ApNsr?RRei17K2KBVh2oA439abnELyDPSrD?mcz3QtB 19-10-03/03/2021 7-1-14 6-10-6 5-10-5x8 = Scale = 1:46.3 6.00 12 14 3x4 || 5 2x4 📏 3

0-9-12 8 3x4 =3x4 = 3x8 = 4x8 ||

Plate Offsets (X,Y)-- [1:0-3-8,Edge] LOADING (psf) SPACING-2-0-0 CSI. **DEFL** (loc) I/defl L/d **PLATES** GRIP TCLL (roof) 25.0Plate Grip DOL 1.15 TC 0.49 Vert(LL) -0.20 6-8 >999 240 MT20 197/144 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 BC 0.74 Vert(CT) -0.40 6-8 >597 180 TCDL 10.0 Rep Stress Incr YES WB 0.31 Horz(CT) 0.02 6 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 FT = 20% Weight: 83 lb Matrix-AS

BRACING-

WEBS

TOP CHORD

BOT CHORD

19-10-8

Rigid ceiling directly applied.

1 Row at midpt

Structural wood sheathing directly applied, except end verticals.

LUMBER-

BCDL

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

WEBS 2x4 SPF No.2 SLIDER Left 2x6 SPF No.2 2-6-0

10.0

REACTIONS.

(size) 1=Mechanical, 6=0-3-8

Max Horz 1=163(LC 11)

Max Uplift 1=-28(LC 12), 6=-19(LC 12) Max Grav 1=888(LC 2), 6=888(LC 2)

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

TOP CHORD 1-3=-1100/73, 3-4=-1012/90 **BOT CHORD** 1-8=-72/1059 6-8=-32/492

WEBS 3-8=-461/133, 4-8=-28/668, 4-6=-748/33

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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
- 4) Unbalanced snow loads have been considered for this design.
- 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 100 lb uplift at joint(s) 1, 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.





Job Truss Truss Type Qty Ply Summit/66 Woodside 2648535 D04 Roof Special Girder Builders FirstSource (Valley Center), Valley Center, KS - 67147,

5-5-8

10-3-8

12-10-0

2-6-8

12-10-0

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS RE **DEVELOPMENT SERVICES**

Structural wood sheathing directly applied or 4-11-5 oc purlins,

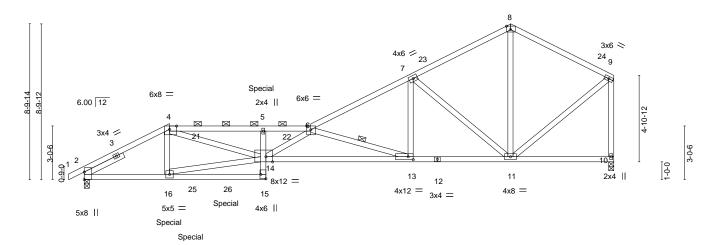
except end verticals, and 2-0-0 oc purlins (3-5-2 max.): 4-6.

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

1 Row at midpt

ID:tjnOHGeVPJTyi41JASwyTKzhfUX-aO3_T1TJxdPiBW2mApbVoihZ2plHYAWr8pSfNxz3Qt8 24-1-12 30-0-0 - 03/03/2021 5-7-14 5-7-14

> 4x6 = Scale = 1:65.3



	4-10-0	5-5-8	2-6-8	5-7-14	5-7-14	ı	5-10-4		
Plate Offsets (X,Y) [4:0	-4-12,Edge], [6:0-2-1	2,Edge], [8:0-2-12,Edge	e], [13:0-3-8,0-2	2-0], [14:0-4-8,Edge], [1	5:Edge,0-3-8]				
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0	SPACING Plate Gri Lumber I Rep Stre	DOL 1.15 DOL 1.15	BC 0	DEFI 0.93 Vert(l 0.98 Vert(l 0.85 Horz(.L) -0.44 13-14 CT) -0.81 13-14	>816 24 >443 18	0 60	PLATES MT20	GRIP 197/144
BCLL 0.0 BCDL 10.0	Code IR	C2018/TPI2014	Matrix-N	MS				Weight: 282 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

18-5-14

LUMBER-

4-10-0

4-10-0

2x4 SPF 1650F 1.5E *Except* TOP CHORD 6-8,8-9: 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except*

2-15: 2x4 SPF 1650F 1.5E, 12-14: 2x4 SP 2400F 2.0E

WEBS 2x4 SPF No.2

SLIDER Left 2x4 SPF No.2 2-6-0

REACTIONS. (size) 2=0-3-8, 10=0-3-8

Max Horz 2=183(LC 59)

Max Uplift 2=-196(LC 12), 10=-82(LC 12) Max Grav 2=2813(LC 2), 10=1884(LC 2)

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

TOP CHORD $2-4=-4964/369,\ 4-5=-10887/705,\ 5-6=-11235/713,\ 6-7=-3890/226,\ 7-8=-1508/123,$

8-9=-1493/133, 9-10=-1828/105 **BOT CHORD** 2-16=-377/4349, 15-16=-86/986, 14-15=-16/349, 5-14=-1652/119, 13-14=-706/10564,

11-13=-191/3419 WEBS 4-16=-264/209, 14-16=-296/3422, 4-14=-384/6893, 6-14=-496/1124, 6-13=-7490/540,

7-13=-99/2430, 7-11=-2801/224, 8-11=-57/936, 9-11=-65/1593

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-3-0 oc.

Bottom chords connected as follows: 2x4 - 1 row at 0-7-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) 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 Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 6) Unbalanced snow loads have been considered for this design.
- 7) 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.
- 8) Provide adequate drainage to prevent water ponding.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 2=196.



June 24,2020

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 chorembers 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 sand truss systems, see

AMSI/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/66 Woodsid	de
2648535	D04	Roof Special Girder	1	2	Job Reference (opt	ional)

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW **DEVELOPMENT SERVICES**

8.240 s Mar 9 2020 MiTek Industries, Incl. 523 Monte 22 Mites Old R.

Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-aO3_T1TJxdPiBW2mApbVoihZ2pIHYAWr8pSfNxz3Qt8

03/03/2021 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1125 lb down and 71 lb up at 10-0-12 on top chord, and 420 lb down and 65 lb up at 4-10-0, and 280 lb down and 51 lb up at 6-0-12, and 280 lb down and 51 lb up at 8-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

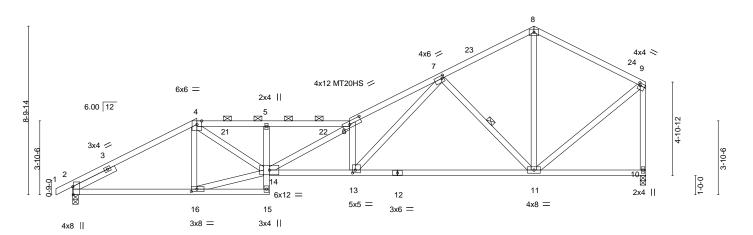
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-4=-51, 4-6=-61, 6-8=-51, 8-9=-51, 15-17=-20, 10-14=-20

Concentrated Loads (lb)

Vert: 5=-929(F) 16=-420(F) 25=-280(F) 26=-280(F)

RELEASE FOR Job Truss Truss Type Qty Summit/66 Woodside CONSTRUCTION AS NOTED ON PLANS RE 2648535 D05 Roof Special **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.240 s Mar 9 2020 MiTek Industries, Incl. Lib. 3.823MW22311155 04481 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-WmBlujUpSFfPQpC9IEezt7m?dcR206B8b7xmSqz3Qt6 19-3-14 30-0-0 03/03/2021 6-6-0 3-9-8 4-2-8 4-9-14 4-9-14 5-10-4 4x6 = Scale = 1:60.3



1	6-6-0	10-3-8	14-6-0	1	24-1-1	2	1	30-0-0	1	
	6-6-0	3-9-8	4-2-8		9-7-12	2	1	5-10-4		
Plate Offsets (X,Y) [2:0-5-1,i	Edge], [6:0-7-8,0-2-0], [7	7:0-1-4,0-1-12],	[9:0-1-0,0-1-8], [[13:0-1-12,0)-1-12], [16:0-3-8	3,0-1-8]				
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	BC 0. WB 0.		DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.29 13-14 -0.60 11-13 0.12 10	l/defl >999 >599 n/a	L/d 240 180 n/a	PLATES MT20 MT20HS	GRIP 197/144 148/108
BCDI 10.0	Code IRC2018/T	TPI2014	Matrix-A	S					Weight: 137 lb	FT = 20%

LUMBER-BRACING-

2x4 SPF No.2 TOP CHORD TOP CHORD

BOT CHORD 2x4 SPF No.2 2-0-0 oc purlins (2-9-10 max.): 4-6. WEBS 2x4 SPF No.2 **BOT CHORD** Rigid ceiling directly applied. **SLIDER** Left 2x4 SPF No.2 2-6-0 **WEBS** 1 Row at midpt

REACTIONS. (size) 2=0-3-8, 10=0-3-8

Max Horz 2=183(LC 9)

Max Uplift 2=-66(LC 12), 10=-41(LC 12) Max Grav 2=1406(LC 2), 10=1343(LC 2)

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

 $2\text{-}4\text{--}2179/116,\ 4\text{-}5\text{--}3453/196,\ 5\text{-}6\text{--}3516/203,\ 6\text{-}7\text{--}4279/231,\ 7\text{-}8\text{--}1040/85,}$ TOP CHORD

8-9=-1048/94 9-10=-1304/57

BOT CHORD 2-16=-140/1886, 5-14=-494/62, 13-14=-188/3856, 11-13=-86/1803

WEBS 4-16=-400/73, 14-16=-143/1740, 4-14=-83/1908, 6-14=-544/0, 6-13=-1958/174,

7-13=-138/2879, 7-11=-1371/150, 8-11=-27/554, 9-11=-17/1079

- 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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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) 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) 2, 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.
- 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.

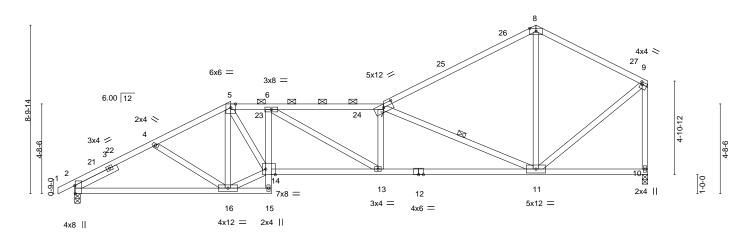


Structural wood sheathing directly applied, except end verticals, and

June 24,2020







1	8-2-0	10-3-8	16-2-0	24-1-12	1 30-0-0	I I	
	8-2-0	2-1-8	5-10-8	7-11-12	5-10-4		
Plate Offsets (X,Y) [2:0-5-1,	,Edge], [7:0-6-0,0-2-1], [9:0-1-0),0-1-8], [1 ₋	4:0-6-0,Edge]				
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0	Lumber DOL 1.	0-0 15 15 ES	CSI. TC 0.77 BC 0.80 WB 0.84	DEFL. in (loc) I/di Vert(LL) -0.20 13-14 >99 Vert(CT) -0.38 11-13 >99 Horz(CT) 0.12 10 n	99 240	PLATES MT20	GRIP 197/144
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI201	4	Matrix-AS	,		Weight: 139 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD

7-8: 2x4 SPF 1650F 1.5E

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

SLIDER Left 2x4 SPF No.2 2-6-0

REACTIONS. (size) 2=0-3-8, 10=0-3-8

Max Horz 2=183(LC 9)

Max Uplift 2=-66(LC 12), 10=-41(LC 12) Max Grav 2=1406(LC 2), 10=1343(LC 2)

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

TOP CHORD 2-4=-2164/129, 4-5=-2051/116, 5-6=-2669/168, 6-7=-2960/155, 7-8=-1103/76,

8-9=-1049/98, 9-10=-1298/61

BOT CHORD 2-16=-169/1868, 6-14=-520/58, 13-14=-167/2724, 11-13=-151/2958

5-16=-739/73, 14-16=-100/1920, 5-14=-92/1650, 6-13=0/394, 7-11=-2274/176, **WEBS**

8-11=0/443, 9-11=-29/1098

- 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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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 100 lb uplift at joint(s) 2, 10.
- 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.



Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (2-11-0 max.): 5-7.

Rigid ceiling directly applied.

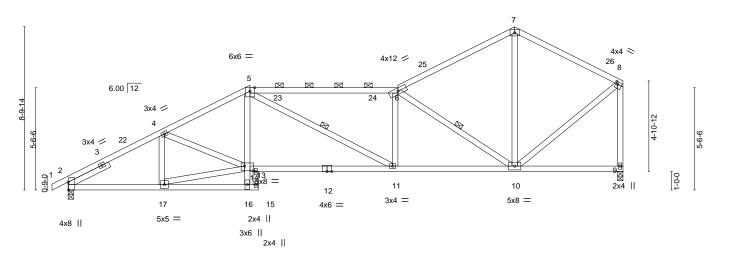
1 Row at midpt

June 24,2020





RELEASE FOR Job Truss Truss Type Qty Summit/66 Woodside CONSTRUCTION AS NOTED ON PLANS RE 2648535 D07 **ROOF SPECIAL DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.240 s Mar 9 2020 MiTek Industries, Incl. Lib. 3.823MW2237W195 GUEL Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-LwY09mZK25QZ8kgJeVkN7O0wB1VsQth1_2O5fUz3Qt0 24-1-12 10-3₋8 0-5-8 03/03/2021 5-0-12 4-9-4 7-6-8 6-3-12 5-10-4 4x6 = Scale = 1:62.3



' !	5-0-12 5-	-2-12	7-6-8	'	6-3-12	1	5-10-4	'	
Plate Offsets (X,Y) [2:0-5-1,	,Edge], [8:0-1-4,0-1-8], [1	4:0-5-12,0-3-0]							
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC 0.98 BC 0.87 WB 0.51	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.14 11-13 -0.31 11-13 0.09 9	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
BCDI 10.0	Code IRC2018/T	PI2014	Matrix-MS					Weight: 143 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

24-1-12

1 Row at midpt

30-0-0

Structural wood sheathing directly applied or 3-1-0 oc purlins,

5-11, 6-10

except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 5-6.

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

17-10-0

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD

5-6: 2x4 SP 2400F 2.0E

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

SLIDER Left 2x4 SPF No.2 2-6-0

REACTIONS. (size) 2=0-3-8, 9=0-3-8

Max Horz 2=183(LC 9)

Max Uplift 2=-66(LC 12), 9=-41(LC 12) Max Grav 2=1406(LC 2), 9=1343(LC 2)

5-0-12

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

TOP CHORD 2-4=-2170/116, 4-5=-2405/144, 5-6=-2310/131, 6-7=-1061/82, 7-8=-1036/98,

8-9=-1291/62

BOT CHORD 2-17=-153/1877, 13-14=-83/2064, 11-13=-120/2122, 10-11=-105/2308, 13-15=-298/0 14-16=0/433, 5-14=0/504, 4-17=-385/61, 4-14=-3/375, 5-11=-25/294, 6-10=-1761/142, **WEBS**

10-3-8

7-10=-12/491, 8-10=-26/1071, 14-17=-115/1820

- 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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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 100 lb uplift at joint(s) 2, 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 24,2020

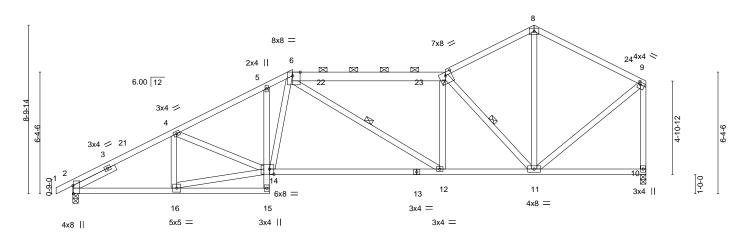


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 chore 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



RELEASE FOR Job Truss Truss Type Qty Summit/66 Woodside CONSTRUCTION AS NOTED ON PLANS RE 2648535 D08 **ROOF SPECIAL DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.240 s Mar 9 2020 MiTek Industries, Incl. Lib. 3.823MW22394135 GUEL Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-HJgmaSbbaigHO2phmwnrCp6KQrCZuo0KRMtBkMz3Qt_ 19-6-0 24-1-12 30-0-0 03/03/2021 5-0-0 1-2-8 8-0-0 4-7-12 5-10-4 4x6 = Scale = 1:60.3



5	-3-8 ₁ 10)-3-8 11-	-6-0 ₁ 19-6-0)	24-1-12		30-0-0		
5	-3-8 5	-0-0	2-8 8-0-0		4-7-12		5-10-4	ı	
Plate Offsets (X,Y) [2:0-5-1,	Edge], [6:0-4-12,Edge], [7:0-4-0,0-2-1], [9:0-1-4,0-1-8], [14:0-2-12	2,0-3-4]					
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCDL 10.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/T	2-0-0 1.15 1.15 YES PI2014	CSI. TC 0.68 BC 0.79 WB 0.46 Matrix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.23 12-14 -0.51 12-14 0.08 10	l/defl >999 >707 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 151 lb	GRIP 197/144 FT = 20%

LUMBER-BRACING-

2x4 SPF No.2 *Except* TOP CHORD TOP CHORD 6-7: 2x6 SPF No.2

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

SLIDER Left 2x4 SPF No.2 2-6-0 **WEBS** 1 Row at midpt 6-12, 7-11

REACTIONS. (size) 2=0-3-8, 10=0-3-8

Max Horz 2=183(LC 9)

Max Uplift 2=-66(LC 12), 10=-41(LC 12) Max Grav 2=1406(LC 2), 10=1343(LC 2)

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

TOP CHORD 2-4=-2178/115, 4-5=-2310/148, 5-6=-2218/169, 6-7=-1823/111, 7-8=-1024/90,

8-9=-1030/99, 9-10=-1284/65

BOT CHORD 2-16=-151/1886, 12-14=-106/1874, 11-12=-63/1817

WEBS 4-16=-349/69, 14-16=-131/1875, 7-12=0/324, 7-11=-1450/112, 8-11=-32/551,

9-11=-26/1056, 6-14=-28/787

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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 100 lb uplift at joint(s) 2, 10.
- 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.



Structural wood sheathing directly applied or 3-3-11 oc purlins,

except end verticals, and 2-0-0 oc purlins (4-3-8 max.): 6-7.

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

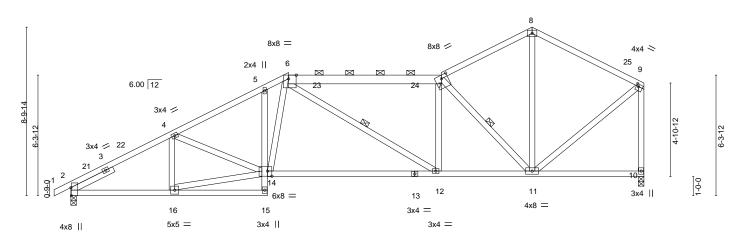
6-0-0 oc bracing: 15-16.

June 24,2020





RELEASE FOR Job Truss Truss Type Qty Summit/66 Woodside CONSTRUCTION AS NOTED ON PLANS RE 2648535 D09 **ROOF SPECIAL DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.240 s Mar 9 2020 MiTek Industries, Incl. Lib. 3.823MW22411156 QUEL Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-EhnX_7cr6Jw?dMz4tLpJHEBgyeu1MiWcvgMInFz3Qsy 11-4-12 24-1-12 30-0-0 03/03/2021 5-0-0 8-0-0 4-9-0 5-10-4 4x6 = Scale = 1:60.3



1 3	-3-6 _I I	U-3-0 I _I I-	4-14	19-4-12	24-1-12	1	30-0-0	1	
5	-3-8	5-0-0 ¹ 1-	1-4	8-0-0	4-9-0		5-10-4	1	
Plate Offsets (X,Y) [2:0-5-1,	Edge], [6:0-4-12,Edge],	[7:0-4-0,0-2-1],	[9:0-1-4,0-1-8], [14:0	0-2-12,0-3-4]					
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/	2-0-0 1.15 1.15 YES FPI2014	CSI. TC 0.67 BC 0.79 WB 0.46 Matrix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.22 12-14 -0.49 12-14 0.08 10	l/defl >999 >729 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 151 lb	GRIP 197/144 FT = 20%

BOT CHORD

WEBS

LUMBER-BRACING-TOP CHORD

2x4 SPF No.2 *Except* TOP CHORD 6-7: 2x6 SPF No.2

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

SLIDER Left 2x4 SPF No.2 2-6-0

REACTIONS. (size) 2=0-3-8, 10=0-3-8

Max Horz 2=183(LC 9)

Max Uplift 2=-66(LC 12), 10=-41(LC 12) Max Grav 2=1406(LC 2), 10=1343(LC 2)

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

TOP CHORD 2-4=-2178/115, 4-5=-2309/148, 5-6=-2212/168, 6-7=-1850/112, 7-8=-1026/90,

8-9=-1030/99, 9-10=-1284/65

BOT CHORD 2-16=-151/1885, 12-14=-107/1889, 11-12=-65/1844

WEBS 4-16=-348/69, 14-16=-132/1873, 7-12=0/318, 7-11=-1464/114, 8-11=-30/546,

9-11=-26/1057, 6-14=-26/774

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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 100 lb uplift at joint(s) 2, 10.
- 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.



Structural wood sheathing directly applied or 3-3-12 oc purlins,

6-12, 7-11

except end verticals, and 2-0-0 oc purlins (4-3-4 max.): 6-7.

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

6-0-0 oc bracing: 15-16.

1 Row at midpt

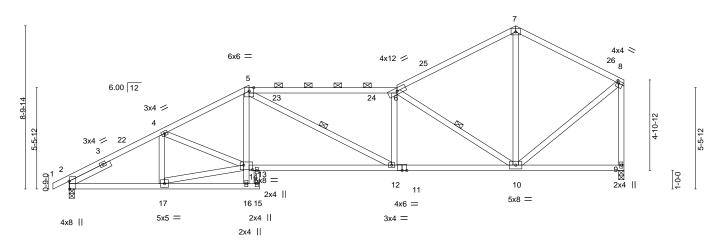
June 24,2020







RELEASE FOR Job Truss Truss Type Qty Summit/66 Woodside CONSTRUCTION AS NOTED ON PLANS RE 2648535 D10 **ROOF SPECIAL DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.240 s Mar 9 2020 MiTek Industries, Incl. Libr 5.1823MW22444155 GARAGE Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-eGTfd9ejOEIZUpifZTM0vtp6KsuXZ2C3beayOaz3Qsv 10-3₇8 0-6-12 03/03/2021 5-0-2 4-8-10 7-5-4 6-5-0 5-10-4 4x6 = Scale = 1:62.3



	5-0-2	5-3-6	7-5-4	6-5-0	5-10-4		
Plate Offsets (X,Y) [2:0-5-1,Edge], [8:0-1-4,0-1-8], [14:0-5-12,0-3-0]							
Snow (Pf/Pg) 20.4/20 TCDL 1	0.0 Lumbe	ING- 2-0-0 Grip DOL 1.15 er DOL 1.15 tress Incr YES	TC 0.98 BC 0.86	Vert(LL) -0.15 12-13 >	/defl L/d -999 240 -999 180 n/a n/a	PLATES MT20	GRIP 197/144
	00 '	IRC2018/TPI2014	Matrix-MS			Weight: 143 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

24-1-12

1 Row at midpt

30-0-0

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

5-12, 6-10

except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 5-6.

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

17-8-12

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD

5-6: 2x4 SP 2400F 2.0E

5-0-2

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

SLIDER Left 2x4 SPF No.2 2-6-0

REACTIONS. (size) 2=0-3-8, 9=0-3-8

Max Horz 2=183(LC 9)

Max Uplift 2=-66(LC 12), 9=-41(LC 12) Max Grav 2=1406(LC 2), 9=1343(LC 2)

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

TOP CHORD 2-4=-2169/115, 4-5=-2421/144, 5-6=-2345/132, 6-7=-1063/82, 7-8=-1037/97,

8-9=-1291/62

BOT CHORD 2-17=-153/1877, 13-14=-82/2085, 12-13=-122/2137, 10-12=-108/2344

WEBS 14-16=0/383, 5-14=0/502, 4-17=-392/61, 5-12=-14/312, 6-10=-1787/144, 7-10=-11/487,

10-3-8

8-10=-26/1072, 14-17=-114/1823, 4-14=-1/388

- 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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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 100 lb uplift at joint(s) 2, 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 24,2020

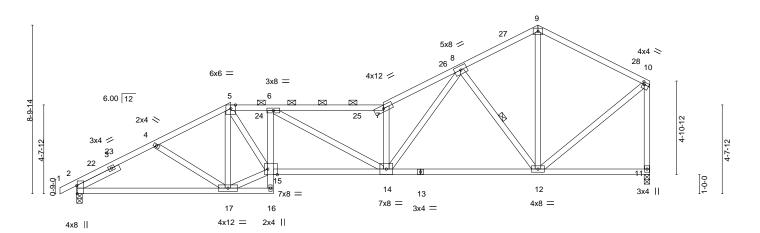


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 chore 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



RELEASE FOR Job Truss Truss Type Qty Summit/66 Woodside CONSTRUCTION AS NOTED ON PLANS RE 2648535 D11 Roof Special **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES 8.240 s Mar 9 2020 MiTek Industries, Incl. Libr 5.1823MW22.493L156 GAUST Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-X2iATXiESTo?zQ?QoJRy3jzu3TJ8VrueWGYAXLz3Qsr 20-1-4 . 24-1-12 30-0-0 03/03/2021 3-10-10 2-2-12 5-9-4 4-0-8 4-0-8 5-10-4 4x6 = Scale = 1:60.3



	8-0-12	10-3-8	16-0-12	24-1-12	30-0-0		
	8-0-12	2-2-12	5-9-4	8-1-0	5-10-4		
Plate Offsets (X,Y) [2:0-5-1	,Edge], [10:0-1-0,0-1-8], [15:	0-6-0,Edge]					
CADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TPI2	2-0-0 1.15 1.15 YES 2014	CSI. TC 0.62 BC 0.69 WB 0.55 Matrix-AS	DEFL. in (loc) l/dr Vert(LL) -0.21 14-15 >99 Vert(CT) -0.38 14-15 >99 Horz(CT) 0.11 11 n	99 240	PLATES MT20 Weight: 144 lb	GRIP 197/144 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 (2-8-3 max.): 5-7. WEBS 2x4 SPF No.2 **BOT CHORD** Rigid ceiling directly applied.

SLIDER Left 2x4 SPF No.2 2-6-0 **WEBS** 1 Row at midpt

REACTIONS. (size) 2=0-3-8, 11=0-3-8 Max Horz 2=183(LC 9)

Max Uplift 2=-66(LC 12), 11=-41(LC 12) Max Grav 2=1406(LC 2), 11=1343(LC 2)

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

 $2\text{-}4\text{--}2163/129,\ 4\text{-}5\text{--}2056/116,\ 5\text{-}6\text{--}2718/172,\ 6\text{-}7\text{--}2975/147,\ 7\text{-}8\text{--}3324/199,}$ TOP CHORD

8-9=-1014/89, 9-10=-1042/96, 10-11=-1296/61

BOT CHORD 2-17=-169/1867, 6-15=-517/55, 14-15=-173/2782, 12-14=-64/1607 **WEBS**

5-17=-703/68, 15-17=-97/1901, 5-15=-95/1657, 6-14=0/336, 7-14=-1801/149,

8-14=-124/2228, 8-12=-1271/134, 9-12=-34/566, 10-12=-20/1068

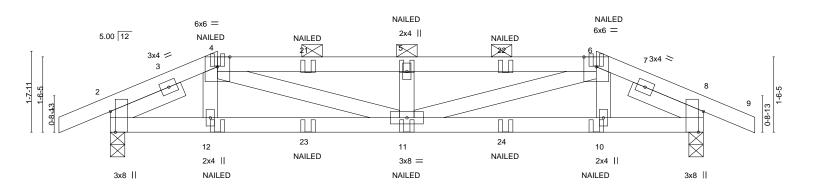
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate 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.
- 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) 2, 11.
- 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.



June 24,2020







 	2-2-0 2-2-0	6-(3-1			9-10-0 3-10-0			-	12-0-0 2-2-0	
Plate Offsets (X,Y) [2:0-5-1,Edge], [8:0-5-1,Edge]										
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0 BCLL 0.0	SPACINO Plate Grip Lumber D Rep Stres	DOL 1.15 OL 1.15	CSI. TC 0.29 BC 0.39 WB 0.19	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.05 -0.09 0.01	(loc) 11 11 8	I/defI >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
BCDL 10.0	Code IRC	C2018/TPI2014	Matrix-MS						Weight: 46 lb	FT = 20%

BOT CHORD

LUMBER-BRACING-

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

WEBS 2x4 SPF No.2

Left 2x4 SPF No.2 1-7-0, Right 2x4 SPF No.2 1-7-0 **SLIDER**

REACTIONS. (size) 2=0-3-8, 8=0-3-8

Max Horz 2=-12(LC 61)

Max Uplift 2=-39(LC 8), 8=-39(LC 9) Max Grav 2=606(LC 2), 8=606(LC 2)

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

2-4=-837/41, 4-5=-1493/81, 5-6=-1493/81, 6-8=-837/41 TOP CHORD BOT CHORD 2-12=-15/755, 11-12=-18/757, 10-11=-23/757, 8-10=-20/755

WEBS 4-11=-44/774, 5-11=-405/63, 6-11=-44/774

- 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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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 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 100 lb uplift at joint(s) 2, 8.
- 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.
- 11) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 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

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

Vert: 1-4=-51, 4-6=-61, 6-9=-51, 13-17=-20



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

2-0-0 oc purlins (4-6-8 max.): 4-6.

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

June 24,2020

Continued on page 2





Job Truss Truss Type Qty Summit/66 Woodside D12 2648535 Hip Girder Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW **DEVELOPMENT SERVICES**

Job Reference (optional) DEVELOPMENT SERVICES 8.240 s Mar 9 2020 MiTek Industries, Incl LEG'S SENDING SOLUTION CONTROL OF SUBMINISTRATION CONTROL OF SUBMINI

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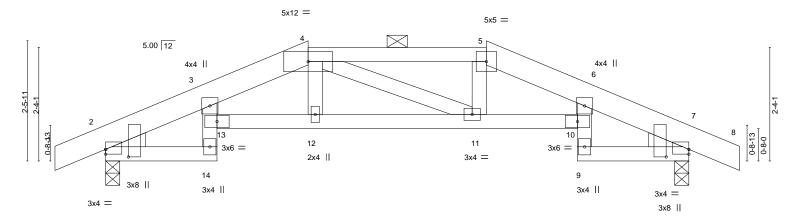
03/03/2021

LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: 12=1(F) 11=0(F) 10=1(F) 23=0(F) 24=0(F)



RELEASE FOR Job Truss Truss Type Qty Summit/66 Woodside CONSTRUCTION AS NOTED ON PLANS RE 2648535 D13 Hip **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES 8.240 s Mar 9 2020 MiTek Industries, Incl. Libr 5.1823MW2256V1135 GAUST Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-laBC8GoFawpswfdyG_aqOPJKUh41NbuqLVUbptz3Qsj 7-10-0 03/03/2021⁰⁻⁸ 1-0-8 2-3-8 1-10-8 3-8-0 1-10-8 2-3-8 Scale = 1:23.7



	2-3-8	4-2-0	7-10-0		9-8-8	12-0-		
	2-3-8)-1-3], [2:0-1-14,	1-10-8 0-5-10], [7:0-0-0,0-1-3]	3-8-0 . [7:0-1-14.0-5-10]		1-10-8	2-3-8	<u>, </u>	
LOADING (psf)	,							
TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0	SPACING Plate Grip Lumber D Rep Stres	DOL 1.15 OL 1.15	CSI. TC 0.27 BC 0.50 WB 0.03	Vert(LL) Vert(CT) Horz(CT)	in (loc) I/det -0.04 12 >999 -0.07 11-12 >999 0.05 7 n/s	9 240 9 180	PLATES MT20	GRIP 197/144
BCLL 0.0 BCDL 10.0		C2018/TPI2014	Matrix-AS	11012(01)	0.05 7 11/1	a II/a	Weight: 49 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied, except

2-0-0 oc purlins (5-5-11 max.): 4-5.

Rigid ceiling directly applied.

LUMBER-

2x6 SPF No.2 *Except* TOP CHORD 4-5: 2x4 SPF No.2

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

WEDGE

Left: 2x4 SPF No.2, Right: 2x4 SPF No.2

REACTIONS. (size) 2=0-3-8, 7=0-3-8

Max Horz 2=-20(LC 13) Max Uplift 2=-23(LC 8), 7=-23(LC 9)

Max Grav 2=613(LC 2), 7=613(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-696/18, 3-4=-1147/24, 4-5=-1098/27, 5-6=-1148/26, 6-7=-696/17 2-14=-0/522, 12-13=0/1087, 11-12=0/1097, 10-11=0/1088, 7-9=0/522 **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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; enveloped; cantilever left and right exposed; 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 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.
- 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 100 lb uplift at joint(s) 2, 7.
- 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.

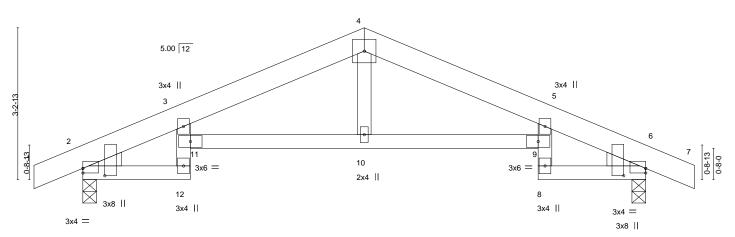


June 24,2020





RELEASE FOR Job Truss Truss Type Qty Summit/66 Woodside CONSTRUCTION AS NOTED ON PLANS RE 2648535 D15 Roof Special 2 **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES 8.240 s Mar 9 2020 MiTek Industries, Incl. Libr 5.1823MW22.594155 GAUST Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-EzJyZxpV5Y3aAzmLNPdlTqOgXVmzrV67ppziumz3Qsh 03/03/2029 1-0-8 9-8-8 1-0-8 3-8-8 6x6 = Scale = 1:24.6



		2-3-8	3	-8-8	3	3-8-8	1	2-3-	-8	
Plate Offsets (X,Y)	[2:0-0-0,	0-1-3], [2:0-1-14,0-5	-10], [6:0-0-0,0-1-3], [6:0-1-14,0-5-10]						
Snow (Pf/Pg) 15.4/20 TCDL 1	0.0	SPACING- Plate Grip Do Lumber DOL Rep Stress I	. 1.15	CSI. TC 0.30 BC 0.47 WB 0.05	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.05 10-11 -0.09 10-11 0.06 6	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
	0.0	Code IRC20	18/TPI2014	Matrix-AS					Weight: 47 lb	FT = 20%

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-BRACING-

2x6 SPF No.2 TOP CHORD 2x4 SPF No.2 **BOT CHORD**

WEBS 2x4 SPF No.2 WEDGE

Left: 2x4 SPF No.2, Right: 2x4 SPF No.2

REACTIONS. (size) 2=0-3-8, 6=0-3-8

Max Horz 2=28(LC 12)

Max Uplift 2=-22(LC 12), 6=-22(LC 13) Max Grav 2=613(LC 2), 6=613(LC 2)

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

TOP CHORD 2-3=-673/20, 3-4=-953/19, 4-5=-953/29, 5-6=-673/25 **BOT CHORD** 2-12=-18/495, 10-11=0/882, 9-10=0/882, 6-8=0/495

- 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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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, 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.



June 24,2020







RELEASE FOR Job Truss Truss Type Qty Summit/66 Woodside CONSTRUCTION AS NOTED ON PLANS RE 2648535 D16 Common **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES 8.240 s Mar 9 2020 MiTek Industries, Incl. Etc. S. 523 MM 25 9 445 5 044 5 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-i9tKmHq8srBRn7LXx78X01xqru9EayJG2TjFQCz3Qsg 03/03/2021 13-0-8 -1-0-8 12-0-0 1-0-8 6-0-0 6-0-0 1-0-8 Scale = 1:22.7

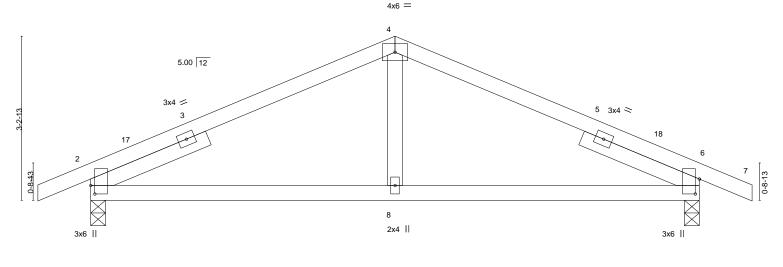


Plate Offsets (X,Y)--[2:0-2-0,0-0-15], [6:0-3-9,0-0-15] LOADING (psf) SPACING-2-0-0 CSI. (loc) I/defl L/d **PLATES** GRIP TCLL (roof) 25.0Plate Grip DOL 1.15 TC 0.33 Vert(LL) -0.04 8-15 >999 240 197/144 MT20 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 BC 0.28 Vert(CT) -0.06 8-15 >999 180 TCDL 10.0 Rep Stress Incr YES WB 0.05 Horz(CT) 0.02 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 FT = 20% Weight: 40 lb Matrix-AS BCDL 10.0

BRACING-

TOP CHORD

BOT CHORD

12-0-0

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

WEBS 2x4 SPF No.2 Left 2x4 SPF No.2 2-6-0, Right 2x4 SPF No.2 2-6-0 **SLIDER**

REACTIONS. (size) 2=0-3-8, 6=0-3-8

Max Horz 2=-28(LC 13)

Max Uplift 2=-22(LC 12), 6=-22(LC 13) Max Grav 2=613(LC 2), 6=613(LC 2)

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

TOP CHORD 2-4=-664/33, 4-6=-664/33 BOT CHORD 2-8=0/613. 6-8=0/613

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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, 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.





RELEASE FOR Job Truss Truss Type Qty Summit/66 Woodside CONSTRUCTION AS NOTED ON PLANS RE 2648535 E01 Roof Special Girder **DEVELOPMENT SERVICES** Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inclate Sustantial Office Color Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-eY?5BzsOQTR91QVw2XA?5S072iq22seZVnCMV5z3Qse 5-3-10 8-3-8 03/03/2021 2-8-6 2-11-14 4x6 Scale = 1:19.7 2 5.00 12 0-7-4 Special 10 4x6 = 4x6 Ш Plate Offsets (X,Y)-- [2:0-3-9,Edge], [3:Edge,0-3-8] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defl L/d **PLATES** GRIP TCLL (roof) 25.0Plate Grip DOL 1.15 TC 0.54 Vert(LL) -0.07 3-5 >999 240 MT20 197/144 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 BC 0.32 Vert(CT) -0.123-5 >801 180 TCDL 10.0 Rep Stress Incr NO WB 0.00 Horz(CT) 0.00 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 FT = 20% Matrix-MF Weight: 35 lb BCDL 10.0 BRACING-

TOP CHORD

BOT CHORD

LUMBER-

WEBS REACTIONS.

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x8 SP 2400F 2.0E

2x4 SPF No.2 (size) 3=0-3-8, 4=0-3-8

Max Horz 4=78(LC 9)

Max Grav 3=810(LC 16), 4=573(LC 16)

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 113 lb down at 1-5-3, 132 lb down at 3-5-3, 132 lb down at 5-5-3, and 137 lb down at 7-5-3, and 147 lb down at 8-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) Special hanger(s) or other connection device(s) shall be provided at 4-9-8 from the left end sufficient to connect truss(es) to back face of bottom chord. The design/selection of such special connection device(s) is the responsibility of others.
- 8) 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: 1-2=-51, 1-4=-81, 1-3=-20

Concentrated Loads (lb)

Vert: 3=-147(B) 7=-113(B) 8=-132(B) 9=-132(B) 10=-137(B)



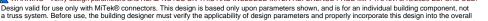
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

June 24,2020





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

AMSI/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

RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Summit/66 Woodside AS NOTED ON PLANS RE 2648535 E02 Monopitch **DEVELOPMENT SERVICES** Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inclate Sustantia 2/2/25 OagR Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-6kYTPJsb9mZ0ea46cFhEegZE663KnJBikRxv1Xz3Qsd 6-2-3 8-2-0 8₇3₇8 0-1-8 03/03/2021 0-10-8 2-8-5 3-5-14 1-11-13 Scale: 1/2"=1 4 5 5.00 12 2x4 || 0-8-0

Plate Offsets (X,Y) [3:0-4-3,	0-1-12], [8:0-3-3,0-2-4], [8:0-4-9,0-0-0]							
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 0.77 BC 0.76 WB 0.05 Matrix-AS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (lo -0.24 7- -0.45 7- 0.16	-8 >395	L/d 240 180 n/a	PLATES MT20 Weight: 25 lb	GRIP 197/144 FT = 20%

4x8 =

5.00 12

LUMBER-

WEBS

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

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied, except end verticals.

2x4 ||

Rigid ceiling directly applied.

2x4 SPF No.2 REACTIONS. (size) 7=0-3-8, 9=0-3-8

0-3-10

Max Horz 9=92(LC 12)

Max Uplift 7=-43(LC 12), 9=-5(LC 12) Max Grav 7=390(LC 17), 9=430(LC 2)

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

TOP CHORD 2-9=-405/55 WEBS 4-7=-270/54

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left exposed; 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) 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 9.
- 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.









RELEASE FOR Job Truss Truss Type Qty Summit/66 Woodside CONSTRUCTION AS NOTED ON PLANS RE 2648535 E03 HALF HIP **DEVELOPMENT SERVICES** Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inclade Sustanting 04/155 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-37gDp?uGhOpkuuEVkgjij5eaXvk5FCo?BlQ05Pz3Qsb 8-2-0 8₇3₇8 0-9-3 0-1-8 03/03/2021 0-10-8 2-8-5 0-7-11 4-0-13 4x4 = Scale = 1:23.0 2x4 || 5 6 7

3.9.0	5.00 12 2x4 4 2x4 10 2x4 5x8 5x8 5x8 2x4 3x4 =	l
	2-8-5 3-4-0 7-4-13 8-2-0 8 2-8-5 0-7-11 4-0-13 0-9-3 0	-378 -1-1-8

Plate Offsets (X,Y)-- [3:0-0-0.0-4-9], [5:0-2-0.Edge], [9:0-1-12.0-1-8], [11:0-1-12.0-4-3]

1. Mail Sineste (14,1) [5:0 5 6]: 10]; [5:0 1 6]: 25]: 25]; [5:0 1 6]: 12]										
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.78 BC 0.81 WB 0.04	DEFL. in (loc) l/defl L/d Vert(LL) -0.29 9-10 >328 240 Vert(CT) -0.48 9-10 >196 180 Horz(CT) 0.17 9 n/a n/a	PLATES GRIP MT20 197/144						
BCLL 0.0	Code IRC2018/TPI2014	Matrix-AS	11012(C1) 0.17 9 11/a 11/a	Weight: 28 lb FT = 20%						
BCDL 10.0	Code IRC2016/1712014	IVIAUIX-AS		vveignt. 20 ib F1 = 20%						

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD **BOT CHORD**

WEBS REACTIONS. 2x4 SPF No.2

2x4 SPF No.2

2x4 SPF No.2 (size) 9=0-3-8, 12=0-3-8

Max Horz 12=80(LC 12) Max Uplift 9=-30(LC 12), 12=-10(LC 12) Max Grav 9=386(LC 32), 12=500(LC 32)

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

TOP CHORD 2-12=-475/55

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left exposed; 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) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 12.
- 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.



Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (6-0-0 max.): 5-7.

Rigid ceiling directly applied.

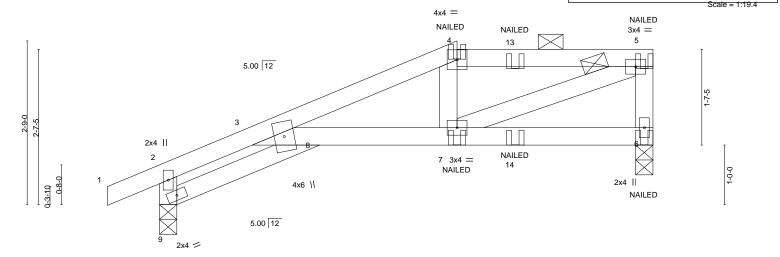
June 24,2020







RELEASE FOR Job Truss Truss Type Qty Ply Summit/66 Woodside CONSTRUCTION AS NOTED ON PLANS RE 2648535 E04 HALF HIP GIRDER **DEVELOPMENT SERVICES** 2 Job Reference (optional) DEVELOPMENT SERVICES 8.240 s Mar 9 2020 MiTek Industries, Incl. Els Substitution of MITES OF AURI Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-?Vo_EhwXD?3S7BOtr5mAoWj_tjWmj54lf3v7Alz3QsZ 5-0-0 8-3-8 03/03/2021 0-10-8 0-11-3 1-4-8



	2-8-5	2-3-1	1	3-3-8			
Plate Offsets (X,Y) [3:0-0-14,0-	-4-7], [8:0-0-14,0-4-7]						
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 NO Code IRC2018/TPI2014	CSI. TC 0.53 BC 0.41 WB 0.12 Matrix-MP	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) I/defl -0.06 8 >999 -0.09 8 >999 0.04 6 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 57 lb	GRIP 197/144 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

5-0-0

8-3-8

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

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.

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

LUMBER-

REACTIONS.

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

> (size) 6=0-3-8, 9=0-3-8 Max Horz 9=64(LC 9)

Max Uplift 6=-77(LC 9), 9=-38(LC 12) Max Grav 6=600(LC 32), 9=568(LC 32)

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

2-8-5

TOP CHORD 2-9=-543/64, 3-4=-948/94, 4-5=-873/101, 5-6=-529/77

BOT CHORD 3-8=-42/872, 7-8=-93/872

WEBS 5-7=-98/939

NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x4 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) 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.
- 6) Unbalanced snow loads have been considered for this design.
- 7) 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.
- 8) Provide adequate drainage to prevent water ponding.
- 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) 9 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 100 lb uplift at joint(s) 6, 9.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) "NAILED" indicates 2-12d (0.148"x3.25") toe-nails per NDS guidlines.



June 24,2020

COAD GASE(S) geStandard





Job Truss Truss Type Qty Ply Summit/66 Woodside HALF HIP GIRDER 2648535 E04 Builders FirstSource (Valley Center),

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW **DEVELOPMENT SERVICES**

| Job Reference (optional) | DEVELOPMENT SERVICES | 8.240 s Mar | 9 2020 MiTek Industries, Incl. | Lie S. SLIMM 3 0 0 125 0 14 ID:tjnOHGeVPJTyi41JASwyTKzhfUX-?Vo_EhwXD?3S7BOtr5mAoWj_tjWmj54lf3v7Alz3QsZ

03/03/2021

Valley Center, KS - 67147,

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=-51, 4-5=-61, 8-9=-20, 6-8=-20

Concentrated Loads (lb)

Vert: 4=-79(F) 6=-54(F) 7=-70(F) 5=-74(F) 13=-50(F) 14=-46(F)



RELEASE FOR Job Truss Truss Type Qty Summit/66 Woodside CONSTRUCTION AS NOTED ON PLANS RE 2648535 J01 DIAGONAL HIP GIRDER **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES 8.240 s Mar 9 2020 MiTek Industries, Incl. Etc. S. 523 MM33 7 M135 PAUL S Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-ThMMS0w9_JBJILy4PoHPLjG8W7tWSZeRtjfgikz3QsY 03/03/2021 1-4-6 3-0-4 2x4 Scale = 1:17.4 3.84 12 NAILED NAILED 13 12 3x4 = 2 0-6-0 14 15 NAILED NAILED 6 2x4 || 6-0-8 Plate Offsets (X,Y)-- [2:0-2-4.0-0-6]

1 late 6 liberto (71,17) [210 2 1]	,			
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 0.60 BC 0.38 WB 0.03	DEFL. in (loc) l/defl L/d Vert(LL) -0.06 7-10 >999 240 Vert(CT) -0.12 7-10 >565 180 Horz(CT) 0.03 2 n/a n/a	PLATES GRIP MT20 197/144
BCLL 0.0	Code IRC2018/TPI2014	Matrix-MP	, ,	Weight: 21 lb FT = 20%
BCDL 10.0	Code IRC2016/1712014	IVIALITX-IVIF		Weight. 21 ib F1 = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SPF No.2 **SLIDER** Left 2x4 SPF No.2 2-6-0

REACTIONS.

(size) 2=0-4-9, 7=Mechanical

Max Horz 2=65(LC 8)

Max Uplift 2=-41(LC 8), 7=-26(LC 12) Max Grav 2=370(LC 2), 7=294(LC 17)

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

TOP CHORD 2-4=-300/45

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left exposed; 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 100 lb uplift at joint(s) 2, 7.
- 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: 1-5=-51, 6-8=-20

Concentrated Loads (lb) Vert: 14=-9(B) 15=0(F)

OF MISS SCOTT M. SEVIER PE-200101880'

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

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

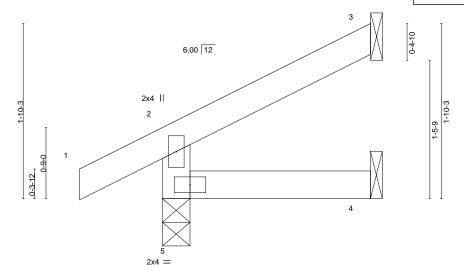
June 24,2020







RELEASE FOR Job Truss Truss Type Qty Summit/66 Woodside CONSTRUCTION AS NOTED ON PLANS RE 2648535 J02 JACK-OPEN **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.240 s Mar 9 2020 MiTek Industries, Incl. Libr 5.1823MW23.094135 04413 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-xuwkfMxnlcHAMVXGzVoetxoRWXHCB0Nb6NOEEBz3QsX 2-2-6 03/03/2021 0-10-8 2-2-6



LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) TCLL (roof) 25.0 Plate Grip DOL 1.15 TC Vert(LL) -0.00 240 197/144 0.07 5 >999 MT20 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 ВС 0.03 Vert(CT) -0.00 4-5 >999 180 TCDI 10.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.00 3 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-MR Weight: 7 lb FT = 20% **BCDL** 10.0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

BOT CHORD WEBS 2x4 SPF No.2

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

Max Horz 5=33(LC 9) Max Uplift 3=-19(LC 12), 5=-2(LC 12)

Max Grav 3=56(LC 17), 4=36(LC 7), 5=187(LC 17)

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left exposed; 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 100 lb uplift at joint(s) 3, 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 2-2-6 oc purlins,

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

except end verticals.

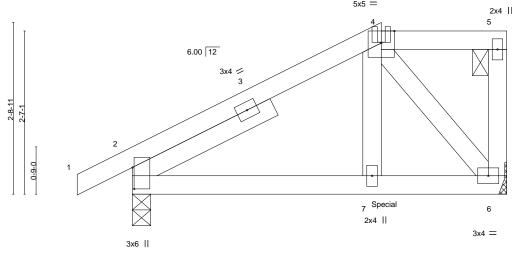
June 24,2020

Scale = 1:12.2





RELEASE FOR Job Truss Truss Type Qty Summit/66 Woodside CONSTRUCTION AS NOTED ON PLANS RE 2648535 J03 JACK-OPEN GIRDER **DEVELOPMENT SERVICES** Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inclate Sustantia 10/2136 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-tG1U42z1HDatcphf4wq6yMulOKxWfvCuZhtKJ3z3QsV 03/03/2021 0-10-8 3-11-6 1-11-14 Scale = 1:18.3 NAILED



3-11-6

Plate Offsets (X,Y) [2:0-4-1,0	0-0-5]							
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 0.18 BC 0.17 WB 0.11	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.01 7-10 -0.01 7-10 0.00 2	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
BCDI 10.0	Code IRC2018/TPI2014	Matrix-MP					Weight: 26 lb	FT = 20%

5-11-4

Structural wood sheathing directly applied or 5-11-4 oc purlins,

LUMBER-BRACING-

2x4 SPF No.2 TOP CHORD TOP CHORD

BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2 2-0-0 oc purlins: 4-5.

SLIDER Left 2x4 SPF No.2 2-6-0 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 6=Mechanical

Max Horz 2=57(LC 12)

Max Uplift 2=-23(LC 12), 6=-42(LC 9) Max Grav 2=520(LC 32), 6=508(LC 31)

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

TOP CHORD 2-4=-428/28

2-7=-37/388, 6-7=-37/362 BOT CHORD **WEBS** 4-7=-6/410, 4-6=-587/60

- 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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left exposed; 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 100 lb uplift at joint(s) 2, 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 331 lb down and 47 lb up at 3-11-6 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 14) 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



June 24,2020







Job Truss Truss Type Qty Summit/66 Woodside JACK-OPEN GIRDER 2648535 J03

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEWS DEVELOPMENT SERVICES

Job Reference (optional)

8.240 s Mar 9 2020 MiTek Industries, Inc. Lab. S. S23MM23 104136 0488 ID:tjnOHGeVPJTyi41JASwyTKzhfUX-tG1U42z1HDatcphf4wq6yMulOKxWfvCuZhtKJ3z3QsV

03/03/2021

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

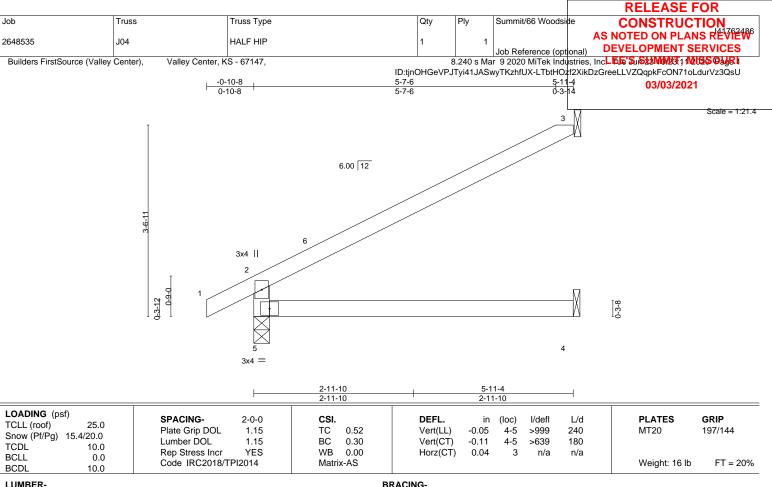
LOAD CASE(S) Standard

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

Vert: 1-4=-51, 4-5=-61, 6-8=-20

Concentrated Loads (lb) Vert: 4=-93(B) 7=-331(B)





BOT CHORD

LUMBER-

REACTIONS.

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

BOT CHORD WEBS 2x4 SPF No.2

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

Max Horz 5=83(LC 12)

Max Uplift 3=-51(LC 12)

Max Grav 3=207(LC 17), 4=107(LC 7), 5=336(LC 2)

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

TOP CHORD 2-5=-290/34

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left exposed; 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
- 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) 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 100 lb uplift at joint(s) 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.
- 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.





RELEASE FOR Job Truss Truss Type Qty Summit/66 Woodside CONSTRUCTION AS NOTED ON PLANS RE 2648535 J05 JACK-OPEN 8 **DEVELOPMENT SERVICES** Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inclade Sustanting 12005 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-qf9FVk_Horqbr6r1CLta1nz?Z8br7qNA1?MRNyz3QsT 03/03/2021 0-10-8 5-11-4 Scale = 1:22.3 6.00 12 3-3-15 3x4 II 0-6-0 0-3-12 3x4 = 5-11-4 LOADING (psf) SPACING-2-0-0 DEFL. I/defI L/d **PLATES GRIP** CSI. (loc) TCLL (roof) 25.0 Plate Grip DOL Vert(LL) -0.05 240 197/144 1.15 TC 0.52 4-5 >999 MT20 Snow (Pf/Pg) 15.4/20.0

LUMBER-

TCDI

BCLL

BCDL

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

10.0

0.0

10.0

WEBS 2x4 SPF No.2

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

Max Horz 5=80(LC 12)

Max Uplift 3=-51(LC 12)

Max Grav 3=207(LC 17), 4=107(LC 7), 5=336(LC 2)

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

Lumber DOL

Rep Stress Incr

Code IRC2018/TPI2014

TOP CHORD 2-5=-290/34

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60

1.15

YES

ВС

WB

Matrix-AS

0.30

0.00

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.11

0.04

4-5

3

Rigid ceiling directly applied.

>639

n/a

180

n/a

Structural wood sheathing directly applied, except end verticals.

- 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
- 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) 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 100 lb uplift at joint(s) 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.
- 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.



Weight: 16 lb

FT = 20%

June 24,2020



RELEASE FOR Job Truss Truss Type Qty Summit/66 Woodside CONSTRUCTION AS NOTED ON PLANS RE 2648535 J06 JACK-OPEN **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES 8.240 s Mar 9 2020 MiTek Industries, Incl. Etc. S. 523 MM33 14413 S PAUL S Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-m2H?wQ0YKS4J4Q?QJmv37C2N6xD2bkgTUJrYSqz3QsR 3-11-13 03/03/2021 0-10-8 2-8-5 1-3-8 Scale = 1:21.3 6.00 12 2x4 || 2-8-10 2x4 | 2 6 5x5 = 1-0-0 0-6-0 0-3-12 5.00 12 2x4 = 3-11-13 1-11-7 Plate Offsets (X,Y)-- [6:0-2-8,Edge] LOADING (psf) SPACING-2-0-0 CSI. **DEFL** (loc) I/defl L/d **PLATES** GRIP 25.0 TCLL (roof) Plate Grip DOL 1.15 TC 0.39 Vert(LL) -0.09 6 >754 240 MT20 197/144 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 BC 0.45 Vert(CT) -0.15 5-6 >448 180 TCDL 10.0 Rep Stress Incr YES WB 0.01 Horz(CT) 0.06 5 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 FT = 20% Weight: 17 lb Matrix-AS BCDL 10.0

LUMBER-

WEBS

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

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

REACTIONS. (size) 4=Mechanical, 5=Mechanical, 7=0-3-8

Max Horz 7=80(LC 12)

2x4 SPF No.2

Max Uplift 4=-38(LC 12), 5=-1(LC 12)

Max Grav 4=179(LC 17), 5=99(LC 17), 7=336(LC 2)

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

NOTES-

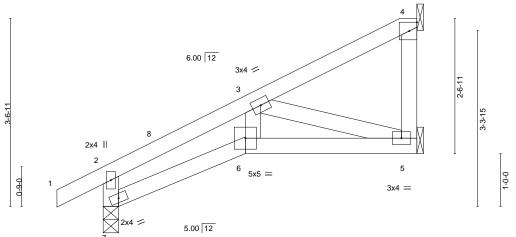
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate 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
- 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 100 lb uplift at joint(s) 4, 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) 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.







RELEASE FOR Job Truss Truss Type Qty Summit/66 Woodside CONSTRUCTION AS NOTED ON PLANS RE 2648535 J07 HALF HIP **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.240 s Mar 9 2020 MiTek Industries, Incl. Lib. 31823MW2314W135 GUEL Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-m2H?wQ0YKS4J4Q?QJmv37C2loxJcbkGTUJrYSqz3QsR -0-10-8 0-10-8 03/03/2021 2-8-5 2-11-1 4x4 || Scale = 1:21.8



	-	2-8-5 2-8-5	5-11-4 3-2-15					
LOADING (psf) SPACING- TCLL (roof) 25.0 Plate Grip DC Snow (Pf/Pg) 15.4/20.0 Lumber DOL TCDL 10.0 Rep Stress In BCDL 10.0 Code IRC201	1.15 cr YES	CSI. TC 0.73 BC 0.09 WB 0.04 Matrix-AS	DEFL. ir Vert(LL) -0.18 Vert(CT) -0.30 Horz(CT) 0.12	6 6	I/defI >370 >226 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 22 lb	GRIP 197/144 FT = 20%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

> 5=Mechanical, 7=0-3-8, 4=Mechanical (size)

Max Horz 7=82(LC 12)

Max Uplift 5=-10(LC 12), 4=-29(LC 12)

Max Grav 5=56(LC 7), 7=332(LC 2), 4=246(LC 17)

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

WEBS 2-7=-307/42

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left exposed; 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
- 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) 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 100 lb uplift at joint(s) 5, 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.
- 11) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



June 24,2020

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 chore 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

Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

16023 Swingley Ridge Rd Chesterfield, MO 63017

MiTek

RELEASE FOR Job Truss Truss Type Qty Summit/66 Woodside CONSTRUCTION AS NOTED ON PLANS RE 2648535 J08 Jack-Open 2 **DEVELOPMENT SERVICES** Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inclade Sustanting 16/40125 Page I Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-iQPmL51qs3K1Kk8oRBxXCd8oXl0u3eMmydKfWjz3QsP 2-6-0 03/03/2021 0-10-8 2-6-0 Scale = 1:11.4 5.00 12 2x4 || 2 0-3-10 2x4 2-6-0 LOADING (psf) SPACING-2-0-0 DEFL. I/defI L/d **PLATES** GRIP CSI. (loc) TCLL (roof) 25.0 Plate Grip DOL 1.15 Vert(LL) -0.00 240 197/144 TC 0.07 4-5 >999 MT20 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 ВС 0.04 Vert(CT) -0.00 4-5 >999 180 TCDI 10.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 3 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-MR Weight: 7 lb FT = 20% **BCDL** 10.0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2

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

3=Mechanical, 4=Mechanical, 5=0-3-8 REACTIONS. (size) Max Horz 5=31(LC 9)

Max Uplift 3=-19(LC 12), 5=-14(LC 8)

Max Grav 3=67(LC 17), 4=42(LC 7), 5=196(LC 17)

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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 100 lb uplift at joint(s) 3, 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 2-6-0 oc purlins,

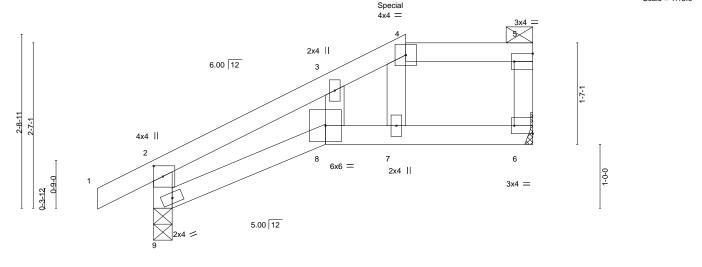
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.





RELEASE FOR Job Truss Truss Type Qty Summit/66 Woodside CONSTRUCTION AS NOTED ON PLANS RE 2648535 J09 Half Hip Girder **DEVELOPMENT SERVICES** Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inclade Sustanting 184625 Page I Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-epWWln32OhalZ1IBYc_?H2D4HZd7XYH3Pwplbbz3QsN 3-11-6 03/03/2021 0-10-8 2-8-5 1-3-1 1-11-14 Scale = 1:18.0



		1 2-8-5	3-11-6	5-11-4	- 1
	I	2-8-5	1-3-1	1-11-14	\neg
Plata Offcate (V V)	[2:0.2.0.0.1.12] [5:Edga.0.1.0	01 [6:Edgo 0 1 9]			

Flate Offsets (A, 1) [2.0-2-0	,0-1-12], [5.Euge,0-1-6], [6.Euge,0-1-6]							
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 0.37 BC 0.38 WB 0.04	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (lo 0.08 -0.09 0.04	oc) I/de 8 >86 8 >7 6 r	00 240	PLATES MT20	GRIP 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MR					Weight: 19 lb	FT = 20%

TOP CHORD

LUMBER-BRACING-

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

2x4 SPF No.2 **BOT CHORD** (size) 6=Mechanical, 9=0-3-8

Max Horz 9=63(LC 9) Max Uplift 6=-246(LC 9), 9=-125(LC 12) Max Grav 6=305(LC 2), 9=421(LC 32)

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

TOP CHORD 2-3=-367/227, 2-9=-437/176

NOTES-

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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) 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=246, 9=125.
- 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 159 lb down and 368 lb up at 3-11-6 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 14) 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



Structural wood sheathing directly applied or 5-11-4 oc purlins,

except end verticals, and 2-0-0 oc purlins: 4-5.

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

June 24,2020

Continued on page 2





Job Truss Truss Type Qty Summit/66 Woodside 2648535 J09 Half Hip Girder Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW **DEVELOPMENT SERVICES**

Job Reference (optional) DEVELOPMENT SERVICES 8.240 s Mar 9 2020 MiTek Industries, Incl LEC'S SEMMENT 18415 CAUGE DE LEC'S SEMMENT 18415 CAUGE DE LEC'S SEMMENT 18415 CAUGE DE LEC'S DE

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03/03/2021

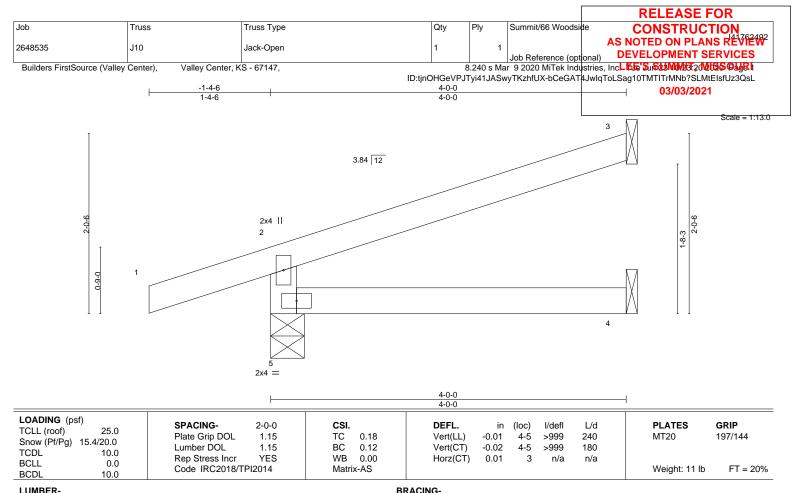
LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=-51, 2-4=-51, 4-5=-61, 8-9=-20, 6-8=-20

Concentrated Loads (lb) Vert: 4=-120(F)





BOT CHORD

LUMBER-

REACTIONS.

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

(size)

BOT CHORD WEBS 2x4 SPF No.2

> Max Horz 5=44(LC 8) Max Uplift 5=-46(LC 8), 3=-27(LC 12)

Max Grav 5=312(LC 17), 3=117(LC 17), 4=69(LC 7)

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

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

TOP CHORD 2-5=-275/66

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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
- 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) 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 100 lb uplift at joint(s) 5, 3.
- 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.



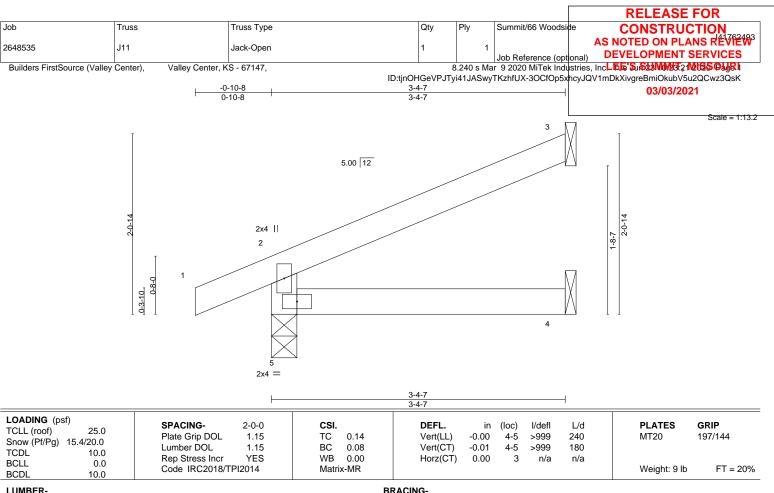
Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

June 24,2020







BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2

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

> 3=Mechanical, 4=Mechanical, 5=0-3-8 (size) Max Horz 5=39(LC 12)

Max Uplift 3=-25(LC 12), 5=-10(LC 8) Max Grav 3=102(LC 17), 4=59(LC 7), 5=239(LC 17)

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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 100 lb uplift at joint(s) 3, 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.



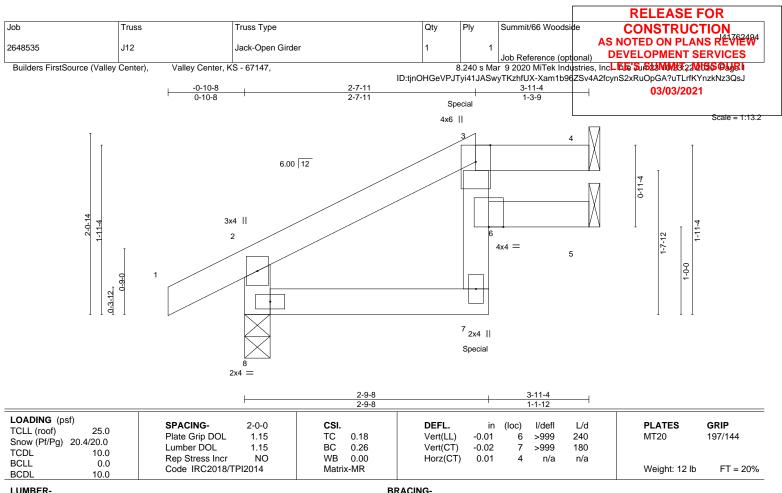
Structural wood sheathing directly applied or 3-4-7 oc purlins,

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

except end verticals.







BOT CHORD

LUMBER-TOP CHORD

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

BOT CHORD WEBS 2x4 SPF No.2

REACTIONS.

(size) 4=Mechanical, 5=Mechanical, 8=0-3-8 Max Horz 8=36(LC 53) Max Uplift 4=-15(LC 9), 5=-12(LC 12), 8=-16(LC 12) Max Grav 4=119(LC 31), 5=117(LC 32), 8=329(LC 32)

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

TOP CHORD 2-8=-302/30

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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) 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5, 8.
- 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 126 lb down and 77 lb up at 2-7-11 on top chord, and 52 lb down at 2-7-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 14) 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

Vert: 1-2=-51, 2-3=-51, 3-4=-61, 7-8=-20, 5-6=-20



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

except end verticals, and 2-0-0 oc purlins: 3-4.

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







Job Truss Truss Type Qty Summit/66 Woodside 2648535 J12 Jack-Open Girder Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW **DEVELOPMENT SERVICES**

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03/03/2021

LOAD CASE(S) Standard Concentrated Loads (lb) Vert: 7=-30(B) 3=-92(B)



RELEASE FOR Job Truss Truss Type Qty Summit/66 Woodside CONSTRUCTION AS NOTED ON PLANS RE 2648535 J13 Jack-Open 3 **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES 8.240 s Mar 9 2020 MiTek Industries, Incl. Etc. S. 523 MM 32 4413 5 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-Tzun0q7p_XLuHymLvt4PXJTAkzj8xFLxnsG4pFz3QsH 03/03/2021 0-10-8 2-9-8 1-1-12 Scale = 1:16.5 4 2x4 || 6.00 12 3 1-8-10 2-3-15 2x4 || 2 3x4 = 5 1-0-0 0-3-12 2x4 ||

	<u> </u>	2-9-8 2-9-8		3-11-4 1-1-12	_			
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 0.12 BC 0.14 WB 0.00 Matrix-MR	DEFL. Vert(LL) -0.0 Vert(CT) -0.0 Horz(CT) 0.0	1 7	I/defI >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 13 lb	GRIP 197/144 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

2x4 SPF No 2 TOP CHORD

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

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

Max Horz 8=55(LC 12) Max Uplift 4=-17(LC 12), 5=-10(LC 12)

Max Grav 4=96(LC 17), 5=77(LC 17), 8=276(LC 17)

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

TOP CHORD 2-8=-251/17

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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

2x4

- 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) 8 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 100 lb uplift at joint(s) 4, 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 3-11-4 oc purlins,

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

except end verticals.

June 24,2020







RELEASE FOR Job Truss Truss Type Qty Summit/66 Woodside CONSTRUCTION AS NOTED ON PLANS RE 2648535 J14 Jack-Open **DEVELOPMENT SERVICES** Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inclade Sustanting 25/10155 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-x9R9DA8RlqTlv6KXSace3W0JwN4jgib50W0dLhz3QsG 3-11-4 3-11-4 -0-10-8 03/03/2021 0-10-8 Scale = 1:16.5 6.00 12

2-3-15 2x4 || 2 0-3-12 2x4 =

BRACING-

TOP CHORD

BOT CHORD

3-11-4 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** (loc) TCLL (roof) 25.0 Plate Grip DOL 1.15 TC Vert(LL) -0.01 240 0.22 4-5 >999 MT20 Snow (Pf/Pg) 15.4/20.0

Lumber DOL 1.15 ВС 0.12 Vert(CT) -0.02 4-5 >999 180 TCDI 10.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.01 3 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-MR **BCDL** 10.0

Weight: 11 lb FT = 20%

GRIP

197/144

LUMBER-

TOP CHORD 2x4 SPF No.2

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

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

Max Horz 5=55(LC 12)

Max Uplift 3=-34(LC 12)

Max Grav 3=128(LC 17), 4=70(LC 7), 5=276(LC 17)

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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 100 lb uplift at joint(s) 3.
- 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.



June 24,2020



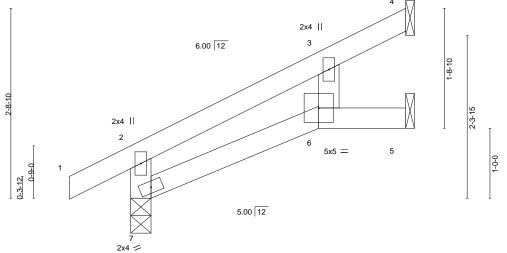


Structural wood sheathing directly applied or 3-11-4 oc purlins,

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

except end verticals.

RELEASE FOR Job Truss Truss Type Qty Summit/66 Woodside CONSTRUCTION AS NOTED ON PLANS RE 2648535 J15 Jack-Open **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.240 s Mar 9 2020 MiTek Industries, Incl. Libr 3.623MW23.234135 GAUST Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-x9R9DA8RlqTlv6KXSace3W0KZN3JgiT50W0dLhz3QsG 03/03/2021 0-10-8 2-8-5 1-2-15 Scale = 1:16.5 4



2-8-5 1-2-15 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES GRIP** in (loc) TCLL (roof) 25.0 Plate Grip DOL TC Vert(LL) -0.01 240 197/144 1.15 0.18 6-7 >999 MT20 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 ВС 0.15 Vert(CT) -0.02 6-7 >999 180 TCDI 10.0 Rep Stress Incr YES WB 0.01 Horz(CT) 0.01 4 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-MF Weight: 12 lb FT = 20% **BCDL** 10.0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

BOT CHORD WEBS 2x4 SPF No.2

REACTIONS. 4=Mechanical, 5=Mechanical, 7=0-3-8 (size) Max Horz 7=54(LC 12)

Max Uplift 4=-19(LC 12), 5=-9(LC 12) Max Grav 4=101(LC 17), 5=73(LC 17), 7=276(LC 17)

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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) 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 100 lb uplift at joint(s) 4, 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 3-11-4 oc purlins,

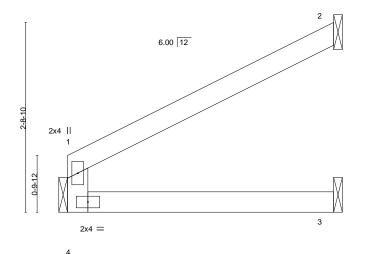
Rigid ceiling directly applied or 6-0-0 oc bracing.

except end verticals.

June 24,2020



RELEASE FOR Job Truss Truss Type Qty Summit/66 Woodside CONSTRUCTION AS NOTED ON PLANS RE 2648535 J16 Jack-Open 5 **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.240 s Mar 9 2020 MiTek Industries, Incl. Lib. 3.823MW23.240155 OJULI Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-PL?YRW93V8bcXGvj0H7tckYTlnQ?P9qEFAIAt8z3QsF 3-9-12 3-9-12 03/03/2021



3-9-12								
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 0.22 BC 0.12 WB 0.00	Vert(CT) -0	in (loc) 0.01 3-4 0.02 3-4 0.01 2	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0	Code IRC2018/TPI2014	Matrix-MR	` '				Weight: 10 lb	FT = 20%

3-9-12

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

BOT CHORD WEBS 2x4 SPF No.2

REACTIONS.

2=Mechanical, 3=Mechanical, 4=Mechanical (size) Max Horz 4=42(LC 9) Max Uplift 2=-34(LC 12)

Max Grav 2=125(LC 16), 3=69(LC 7), 4=172(LC 16)

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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 100 lb uplift at joint(s) 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.



Structural wood sheathing directly applied or 3-9-12 oc purlins,

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

except end verticals.

June 24,2020

Scale = 1:16.5





RELEASE FOR Job Truss Truss Type Qty Summit/66 Woodside CONSTRUCTION AS NOTED ON PLANS RE 2648535 J17 Jack-Open **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.240 s Mar 9 2020 MiTek Industries, Incl. Lib. 3.823MW23.27V135 GUEL Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-uYZwesAiGSjT8QUwa?e68x5bhBgc8cvOUqVkPaz3QsE 03/03/2021 1-4-6 2-8-0 Scale = 1:16.3 4 3.84 12 2x4 || 1-8-7 2x4 || 6 5 5x5 = 0-6-0 3.84 12 2x4 2-8-0 Plate Offsets (X,Y)-- [6:0-2-8,Edge] LOADING (psf) SPACING-2-0-0 CSI. (loc) I/defl L/d **PLATES** GRIP TCLL (roof) 25.0Plate Grip DOL 1.15 TC 0.40 Vert(LL) -0.09 6-7 >804 240 MT20 197/144 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 BC 0.42 Vert(CT) -0.15 6-7 >466 180 TCDL 10.0 Rep Stress Incr YES WB 0.01 Horz(CT) 0.05 5 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 FT = 20% Weight: 17 lb Matrix-AS BCDL 10.0

LUMBER-

WEBS

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

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

REACTIONS. (size) 7=0-3-11, 4=Mechanical, 5=Mechanical

Max Horz 7=60(LC 8)

2x4 SPF No.2

Max Uplift 7=-46(LC 8), 4=-25(LC 12), 5=-1(LC 12) Max Grav 7=385(LC 2), 4=166(LC 17), 5=101(LC 17)

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

TOP CHORD 2-7=-292/54

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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) 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 100 lb uplift at joint(s) 7, 4, 5.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
- 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.



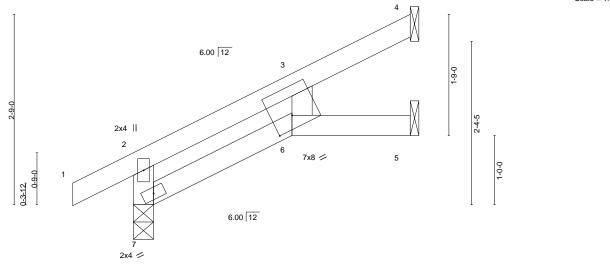
June 24,2020







RELEASE FOR Job Truss Truss Type Qty Summit/66 Woodside CONSTRUCTION AS NOTED ON PLANS RE 2648535 J18 Jack-Open 2 **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.240 s Mar 9 2020 MiTek Industries, Incl. Lib. 3.823MW23.240156 OJULI Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-Mk7IsCBK1IrKma368i9Lh9dq3b4mt3DXiUEHy0z3QsD 2-3-8 4-0-0 03/03/2021 0-10-8 1-8-8 Scale = 1:16.6



4-0-0

Rigid ceiling directly applied.

Structural wood sheathing directly applied, except end verticals.

Plate Offsets (X,)	/) [3:	0-1-15,0-0-	0], [6:0-3	3-8,0-2-4]

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 0.16 BC 0.16 WB 0.01	DEFL. in (loc) l/defl L/d Vert(LL) -0.02 6 >999 240 Vert(CT) -0.03 6 >999 180 Horz(CT) 0.01 5 n/a n/a	PLATES GRIP MT20 197/144				
BCLL 0.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 12 lb FT = 20%				
BCDL 10.0				=				

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

WEBS

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

2x4 SPF No.2 (size) 4=Mechanical, 5=Mechanical, 7=0-3-8

Max Horz 7=55(LC 12) Max Uplift 4=-24(LC 12), 5=-4(LC 12)

Max Grav 4=111(LC 17), 5=66(LC 17), 7=279(LC 17)

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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
- 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) 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 100 lb uplift at joint(s) 4, 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) 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.



June 24,2020





RELEASE FOR Job Truss Truss Type Qty Summit/66 Woodside CONSTRUCTION AS NOTED ON PLANS RE 2648535 J19 Jack-Open **DEVELOPMENT SERVICES** Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inclade Sustantina 29465 Page Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-qwhg3YByq3zBOkeIhQgaEMA0a_RVcWahx8_rUTz3QsC 3-1-0 3-1-0 03/03/2021 0-10-8

> 6.00 12 2x4 II 0-3-12

		ı	3-1-0	'			
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	CSI. TC 0.11 BC 0.07 WB 0.00	DEFL. Vert(LL) -0.0 Vert(CT) -0.0 Horz(CT) 0.0	I/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%

3-1-0

TOP CHORD

LUMBER-BRACING-

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

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

REACTIONS. 3=Mechanical, 4=Mechanical, 5=0-3-8 (size) Max Horz 5=44(LC 12)

Max Uplift 3=-27(LC 12), 5=-1(LC 12)

Max Grav 3=93(LC 17), 4=54(LC 7), 5=230(LC 17)

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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 100 lb uplift at joint(s) 3, 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 3-1-0 oc purlins,

except end verticals.

June 24,2020

Scale = 1:14.4





Job Truss Truss Type Qty Summit/66 Woodside 2648535 J20 Jack-Open Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS RE **DEVELOPMENT SERVICES**

8.240 s Mar 9 2020 MiTek Industries, Inclade Sustantina 29465 Page

Structural wood sheathing directly applied or 1-5-0 oc purlins,

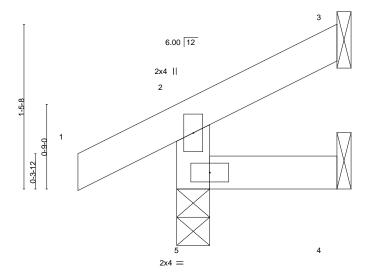
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

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0-10-8 1-5-0

Scale = 1:10.2



1-5-0

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	CSI. TC 0.07 BC 0.02 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
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MR		Weight: 5 lb $FT = 20\%$

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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 (size) Max Horz 5=27(LC 9)

Max Uplift 3=-12(LC 12), 5=-3(LC 12)

Max Grav 3=22(LC 17), 4=22(LC 7), 5=158(LC 17)

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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 100 lb uplift at joint(s) 3, 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.



June 24,2020



RELEASE FOR Job Truss Truss Type Qty Summit/66 Woodside CONSTRUCTION AS NOTED ON PLANS RE 2648535 J21 Diagonal Hip Girder **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.240 s Mar 9 2020 MiTek Industries, Incl. Lib. 3.623MW2330V155 GUEL Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-I7F2HuCaZN52?tDVF7Bpmaj8yOI?LyrqAojO0vz3QsB - 03/03/2021 1-4-6 3-8-9 3-8-9 2x4 || Scale = 1:20.0 5 6 NAILED 17 NAILED 3.84 12 16 3x4 = NAILED NAILED 3x4 = 8 NAILED **NAILED** NAILED NAILED 2x4 || 3x6 = 73x6 II Plate Offsets (X,Y)-- [2:0-2-4,0-0-2] LOADING (psf) SPACING-2-0-0 CSI. (loc) I/defl L/d **PLATES** GRIP TCLL (roof) 25.0Plate Grip DOL 1.15 TC 0.27 Vert(LL) -0.01 8-9 >999 240 MT20 197/144 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 BC 0.24 Vert(CT) -0.028-9 >999 180 TCDL 10.0 Rep Stress Incr NO WB 0.13 Horz(CT) 0.00 8 n/a n/a **BCLL** 0.0

Matrix-MF

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BCDL

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

SLIDER Left 2x4 SPF No.2 2-6-0

10.0

REACTIONS.

(size) 2=0-4-9, 8=Mechanical

Max Horz 2=77(LC 8)

Max Uplift 2=-45(LC 8), 8=-39(LC 12) Max Grav 2=444(LC 2), 8=446(LC 17)

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

Code IRC2018/TPI2014

TOP CHORD 2-4=-447/13 BOT CHORD

2-9=-51/440, 8-9=-51/440 **WEBS** 4-8=-488/56

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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 100 lb uplift at joint(s) 2, 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) "NAILED" indicates 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: 1-6=-51, 7-10=-20

Concentrated Loads (lb)

Vert: 16=-27(B) 17=-77(F) 18=1(B) 19=-9(F) 20=-6(B) 21=-55(F)



June 24,2020

FT = 20%

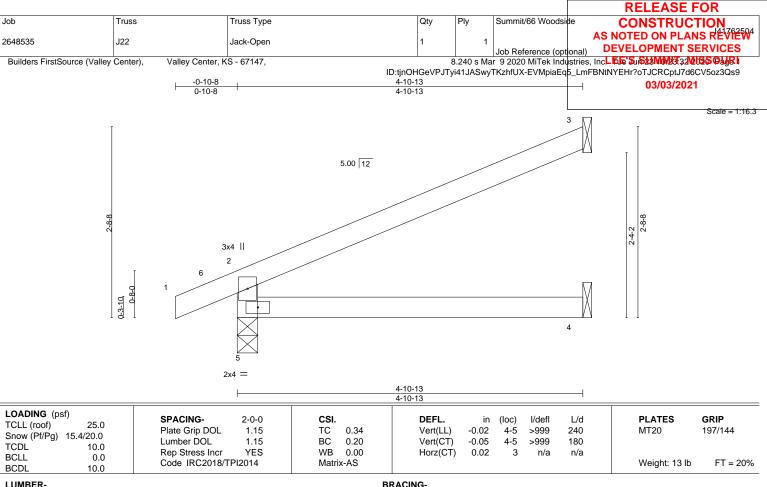
Weight: 30 lb

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

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







BOT CHORD

LUMBER-

REACTIONS.

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

(size)

BOT CHORD WEBS 2x4 SPF No.2

> 3=Mechanical, 4=Mechanical, 5=0-3-8 Max Horz 5=56(LC 12)

Max Uplift 3=-37(LC 12), 5=-6(LC 12)

Max Grav 3=164(LC 17), 4=87(LC 7), 5=296(LC 17)

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

TOP CHORD 2-5=-261/34

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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
- 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) 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 100 lb uplift at joint(s) 3, 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.

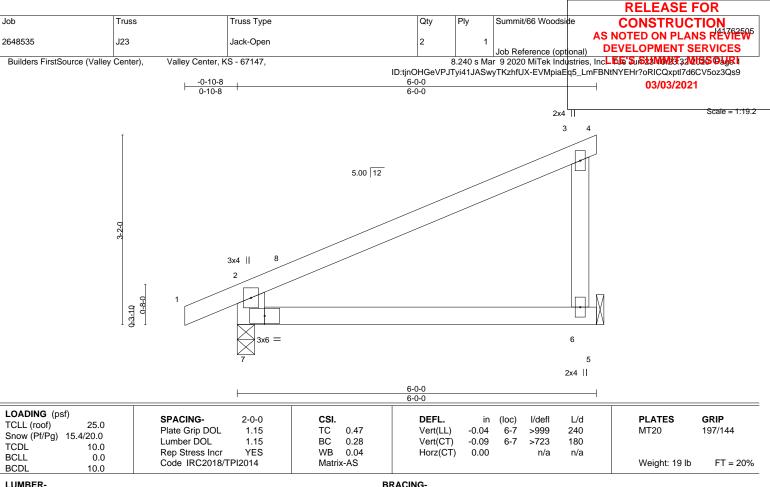


Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.







TOP CHORD

BOT CHORD

LUMBER-TOP CHORD BOT CHORD

WEBS

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

2x6 SPF No.2 *Except* 3-6: 2x4 SPF No.2

REACTIONS.

(size) 6=Mechanical, 7=0-3-8

Max Horz 7=67(LC 12)

Max Uplift 6=-32(LC 12), 7=-6(LC 12) Max Grav 6=288(LC 17), 7=332(LC 2)

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

TOP CHORD 2-7=-287/38

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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) 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 100 lb uplift at joint(s) 6, 7.
- 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.

June 24,2020



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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



RELEASE FOR Job Truss Truss Type Qty Summit/66 Woodside CONSTRUCTION AS NOTED ON PLANS RE 2648535 J24 Roof Special Girder **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES 8.240 s Mar 9 2020 MiTek Industries, Incl. Etc. S. 523 MM33 39 M155 PAURI Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-f42xKbGjOvjK6f5S2gn_TdQvgPO?0E3ZJ4R9h6z3Qs6 03/03/2021 3-4-13 4x4 || Scale = 1:14.0 2 5.00 12 2-4-3 0-7-4 7 Special 3 4x6 = Special 4x12 MT20HS 6-0-0 Plate Offsets (X,Y)-- [3:Edge,0-3-8] LOADING (psf) SPACING-**PLATES** 2-0-0 CSI. **DEFL** in (loc) I/defl L/d GRIP TCLL (roof) 25.0Plate Grip DOL 1.15 TC 0.65 Vert(LL) -0.06 5 >999 240 MT20 197/144 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 BC 0.51 Vert(CT) -0.11 5 >635 180 MT20HS 148/108 TCDL 10.0 Rep Stress Incr NO WB 0.00 Horz(CT) 0.00 3 n/a n/a **BCLL** 0.0

BRACING-

TOP CHORD

BOT CHORD

Matrix-MF

LUMBER-

REACTIONS.

BCDL

WEBS

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

2x8 SP 2400F 2.0E 2x4 SPF No.2

10.0

(size) 3=Mechanical, 4=0-3-8 Max Horz 4=50(LC 11)

Max Uplift 3=-57(LC 12), 4=-16(LC 12) Max Grav 3=1144(LC 2), 4=1047(LC 2)

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

Code IRC2018/TPI2014

TOP CHORD 1-2=-318/20 **BOT CHORD** 1-3=-24/301

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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) All plates are MT20 plates unless otherwise indicated.
- 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 100 lb uplift at joint(s) 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.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 830 lb down and 59 lb up at 2-0-12, and 848 lb down and 68 lb up at 4-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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: 1-2=-51, 1-4=-81, 1-3=-20

Concentrated Loads (lb) Vert: 1=-683(F) 7=-695(F)



June 24,2020

FT = 20%

Weight: 24 lb

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

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

except end verticals.



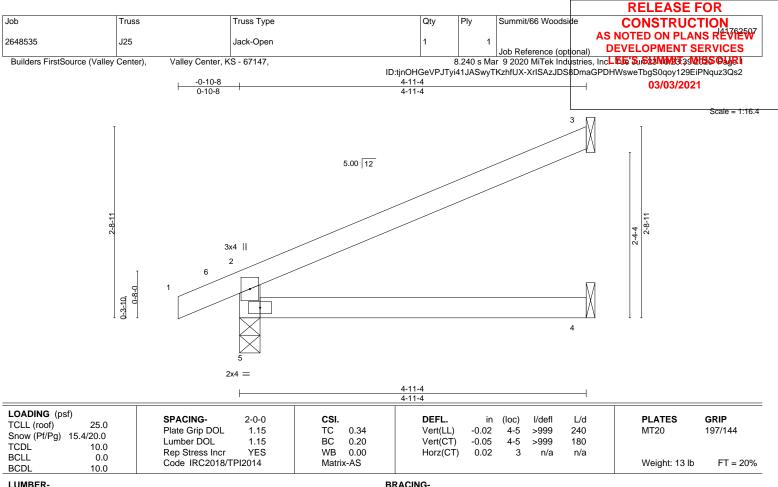


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 chore 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





TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

REACTIONS.

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

BOT CHORD WEBS 2x4 SPF No.2

> 3=Mechanical, 4=Mechanical, 5=0-3-8 (size) Max Horz 5=56(LC 12)

Max Uplift 3=-38(LC 12), 5=-6(LC 12)

Max Grav 3=165(LC 17), 4=88(LC 7), 5=297(LC 17)

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

TOP CHORD 2-5=-261/35

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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
- 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) 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 100 lb uplift at joint(s) 3, 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) 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.

June 24,2020





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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



RELEASE FOR Job Truss Truss Type Qty Summit/66 Woodside CONSTRUCTION AS NOTED ON PLANS RE 2648535 J26 Jack-Open **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.240 s Mar 9 2020 MiTek Industries, Incl. Lib. 3.623MW23.40V135 GUELO Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-?2rqNJKsCRMdCQ_QrEN9Ah7vRQChhUIITM8wNKz3Qs1 2-2-6 03/03/2021 0-10-8 2-2-6

> Scale = 1:12.2 6.00 12 1-0-1 2x4 II 2 0-8-15 0-6-0 5.00 12 2x4 =

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 0.07 BC 0.03 WB 0.00	DEFL. in (loc) l/defl L/d Vert(LL) -0.00 5 >999 240 Vert(CT) -0.00 4-5 >999 180 Horz(CT) -0.00 3 n/a n/a		GRIP 197/144
BCLL 0.0	Code IRC2018/TPI2014	Matrix-MR	·	Weight: 7 lb	FT = 20%
BCDL 10.0	Code 11(C2010/11 12014	IVIAUIX-IVIIX		weight. 7 ib	1 1 - 2070

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

BOT CHORD WEBS 2x4 SPF No.2

3=Mechanical, 4=Mechanical, 5=0-3-8 (size) Max Horz 5=34(LC 9)

Max Uplift 3=-20(LC 12), 5=-1(LC 12)

Max Grav 3=56(LC 17), 4=36(LC 7), 5=187(LC 17)

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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 100 lb uplift at joint(s) 3, 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 2-2-6 oc purlins,

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

except end verticals.

June 24,2020





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

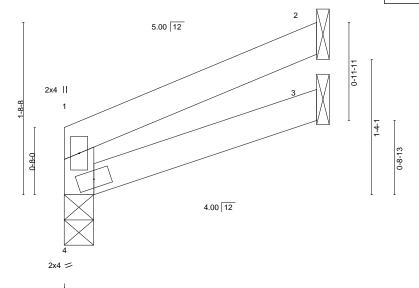
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chorembers 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

AMSI/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



RELEASE FOR Job Truss Truss Type Qty Summit/66 Woodside CONSTRUCTION AS NOTED ON PLANS RE 2648535 J27 JACK-OPEN **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.240 s Mar 9 2020 MiTek Industries, Incl. LEC Su823MM2343412566481 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-QdXz?KlMkVMkC3tj?WMwsoJlPeeE9ur2k9JNa_fz3Qs_ 03/03/2021 2-6-0



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 0.04 WB 0.00	/	-0.00	3-4	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-MR	, ,					Weight: 7 lb	FT = 20%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

WEBS 2x4 SPF No.2

> 2=Mechanical, 3=Mechanical, 4=0-3-8 (size)

Max Horz 4=26(LC 9) Max Uplift 2=-20(LC 12)

Max Grav 2=75(LC 2), 3=44(LC 7), 4=103(LC 2)

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

NOTES-

REACTIONS.

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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) 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 100 lb uplift at joint(s) 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.



Structural wood sheathing directly applied or 2-6-0 oc purlins,

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

except end verticals.

June 24,2020

Scale = 1:11.4

RELEASE FOR Job Truss Truss Type Qty Summit/66 Woodside CONSTRUCTION AS NOTED ON PLANS RE 2648535 J28 MONOPITCH **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.240 s Mar 9 2020 MiTek Industries, Incl. Lib. 3.823MW2347W135 GUEL Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-IOnUriPFZbEdYV0mIC?oy9w3eFYeqfpK4xLo6Qz3Qrw 4-10-13 3-3-8 3-3-8 03/03/2021 1-7-5 Scale = 1:16.3 3x4 II 2x4 || 5.00 12 8-8-2x4 | 5 5x5 = 1-0-0 3x4 || 0-8-0 4.00 12 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES GRIP** (loc) TCLL (roof) 25.0 Plate Grip DOL TC Vert(LL) -0.02 240 197/144 1.15 0.20 5-6 >999 MT20 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 ВС 0.20 Vert(CT) -0.03 5-6 >999 180

LUMBER-

TCDI

BCLL

BCDL

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

10.0

0.0

10.0

BOT CHORD WEBS 2x4 SPF No.2

REACTIONS. 4=Mechanical, 6=0-3-8 (size) Max Horz 6=59(LC 9)

Max Uplift 4=-20(LC 12), 6=-4(LC 12) Max Grav 4=221(LC 16), 6=221(LC 16)

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

Rep Stress Incr

Code IRC2018/TPI2014

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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

YES

WB

Matrix-AS

0.01

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.01

4

Rigid ceiling directly applied.

n/a

n/a

Structural wood sheathing directly applied, except end verticals.

- 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) 6 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 100 lb uplift at joint(s) 4, 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.



Weight: 14 lb

FT = 20%





RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Summit/66 Woodside AS NOTED ON PLANS RE 2648535 J29 Jack-Open Girder **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.240 s Mar 9 2020 MiTek Industries, Incl. Libr 5.1823MW2350V1135 GUELS Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-izScTjS7sWcCPylLQKYVaoYQTSbq10GmmvaSilz3Qrt 03/03/2021 1-4-6 4-0-10 1-11-13 3x4 || Scale = 1:16.6 9 4 0-4-2 2x4 || 3.84 12 NAII FD 3 NAILED 1 1-8-3 2x4 || 6 NAILED NAII FD 1-0-0 2x4 || 3.20 12 4-0-10 6-0-8 4-0-10 Plate Offsets (X,Y)-- [4:0-2-13,0-0-8] LOADING (psf) SPACING-2-0-0 CSI. (loc) I/defl L/d **PLATES** GRIP TCLL (roof) 25.0Plate Grip DOL 1.15 TC 0.87 Vert(LL) -0.16 >430 240 MT20 197/144 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 BC 0.17 Vert(CT) -0.25>274 180 TCDL 10.0 Rep Stress Incr NO WB 0.03 Horz(CT) 0.07 6 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 FT = 20% Matrix-MF Weight: 18 lb BCDL 10.0 LUMBER-BRACING-TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

BOT CHORD

except end verticals.

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

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

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

> (size) 8=0-3-11, 6=Mechanical, 4=Mechanical Max Horz 8=60(LC 34)

Max Uplift 8=-62(LC 8), 6=-12(LC 28), 4=-347(LC 8) Max Grav 8=389(LC 2), 6=363(LC 34), 4=192(LC 17)

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

TOP CHORD 2-8=-346/95 WEBS 4-6=-360/22

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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) n/a
- 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) 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6 except (it=lb) 4=347.
- 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) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 13) "NAILED" indicates 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 14) 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

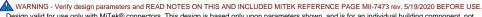
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-51, 2-4=-51, 7-8=-20, 5-7=-20



June 24,2020





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 Summit/66 Woodside 2648535 J29 Jack-Open Girder Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW

| Job Reference (optional) | DEVELOPMENT SERVICES | 8.240 s Mar | 9 2020 MiTek Industries, Incl. | The Substitution | Substitu

ID:tjnOHGeVPJTyi41JASwyTKzhfUX-izScTjS7sWcCPylLQKYVaoYQTSbq10GmmvaSilz3Qrt

03/03/2021

LOAD CASE(S) Standard Concentrated Loads (lb) Vert: 12=-17(F) 13=0(B)



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Summit/66 Woodside AS NOTED ON PLANS RE 2648535 J30 Jack-Open **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.240 s Mar 9 2020 MiTek Industries, Incl. Lib. 3.823MW235/20136 OUR Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-fMaNuPTNO7sweGvjYlbzfDdy4Gl4Vw63ED3Zndz3Qrr 2-11-12 03/03/2021 0-10-8 2-3-8 0-8-4 Scale = 1:14.1

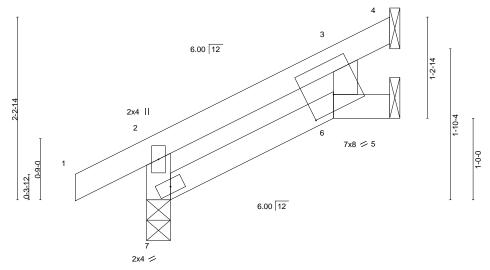


Plate Offsets (X,Y)-- [3:0-1-15,0-0-0], [6:0-4-0,0-2-4] LOADING (psf) SPACING-2-0-0 CSI. **DEFL** (loc) I/defl L/d **PLATES** GRIP 25.0 TCLL (roof) Plate Grip DOL 1.15 TC 0.09 Vert(LL) -0.00 6 >999 240 MT20 197/144 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 BC 0.06 Vert(CT) -0.01 6-7 >999 180 TCDL 10.0 Rep Stress Incr YES WB 0.01 Horz(CT) 0.00 4 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 FT = 20% Matrix-MF Weight: 10 lb BCDL 10.0

2-11-12

LUMBER-BRACING-

TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 2-11-12 oc purlins,

BOT CHORD 2x4 SPF No.2 except end verticals. WEBS 2x4 SPF No.2 **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 5=Mechanical, 7=0-3-8 Max Horz 7=42(LC 12)

Max Uplift 4=-17(LC 12), 5=-6(LC 12)

Max Grav 4=73(LC 17), 5=46(LC 17), 7=225(LC 17)

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

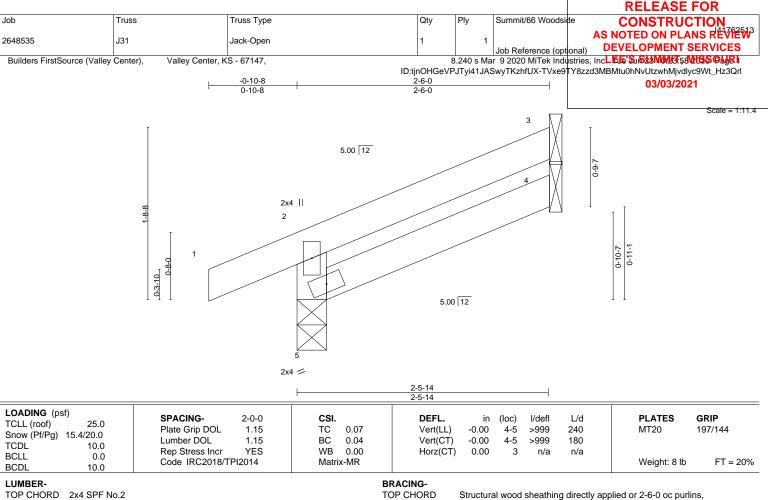
NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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
- 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) 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 100 lb uplift at joint(s) 4, 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.



June 24,2020

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



BOT CHORD

except end verticals.

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

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

BOT CHORD WEBS 2x4 SPF No.2

> 3=Mechanical, 4=Mechanical, 5=0-3-8 (size) Max Horz 5=32(LC 9)

Max Uplift 3=-19(LC 12), 5=-13(LC 8)

Max Grav 3=67(LC 17), 4=42(LC 7), 5=196(LC 17)

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

NOTES-

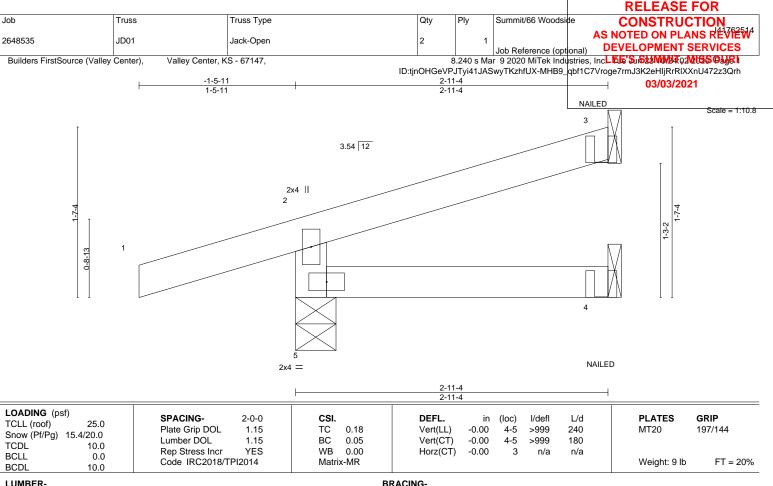
REACTIONS.

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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 100 lb uplift at joint(s) 3, 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.









TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2

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

> (size) 5=0-4-9, 3=Mechanical, 4=Mechanical Max Horz 5=33(LC 8)

Max Uplift 5=-53(LC 8), 3=-19(LC 12)

Max Grav 5=275(LC 17), 3=70(LC 17), 4=48(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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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 100 lb uplift at joint(s) 5, 3.
- 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) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 11) 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: 1-2=-51, 2-3=-51, 4-5=-20

Concentrated Loads (lb) Vert: 3=-1(F) 4=1(F)

OF MISS SCOTT M. SEVIER PE-200101880' SSIONAL

Structural wood sheathing directly applied or 2-11-4 oc purlins,

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

except end verticals.

June 24,2020





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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



RELEASE FOR Job Truss Truss Type Qty Summit/66 Woodside CONSTRUCTION AS NOTED ON PLANS RE 2648535 JD02 Jack-Open 2 **DEVELOPMENT SERVICES** Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inclade Sustantina 1940 50 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-mssHdsdXK7V4iGODo_J0hygApVkd2oU_DkilkNz3Qre 1-10-3 03/03/2021 1-0-8 1-10-3 Scale = 1:10.4 5.00 12 2x4 || 2 -6-1 1-6-1 0-3-10 2x4 =1-10-3 1-10-3 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) TCLL (roof) 25.0

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.00

-0.00

-0.00

5 >999

5

3

except end verticals.

>999

n/a

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

240

180

n/a

Structural wood sheathing directly applied or 1-10-3 oc purlins,

LUMBER-

TCDI

BCLL

BCDL

TOP CHORD 2x4 SPF No.2

10.0

0.0

10.0

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

Snow (Pf/Pg) 15.4/20.0

3=Mechanical, 4=Mechanical, 5=0-3-8 REACTIONS. (size) Max Horz 5=28(LC 9)

Max Uplift 3=-14(LC 12), 5=-21(LC 8) Max Grav 3=37(LC 17), 4=29(LC 7), 5=190(LC 17)

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

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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

1.15

1.15

YES

TC

ВС

WB

Matrix-MR

0.09

0.02

0.00

- 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 100 lb uplift at joint(s) 3, 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.



June 24,2020

197/144

FT = 20%

MT20

Weight: 6 lb





RELEASE FOR Job Truss Truss Type Qty Summit/66 Woodside CONSTRUCTION AS NOTED ON PLANS RE 2648535 JD03 Jack-Open 3 **DEVELOPMENT SERVICES** Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inclade Sustantia 407465 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-jE_12XfnskloxZYcwPMUmNlWHJQ1Wi_Hg2BrpGz3Qrc 2-2-0 2-2-0 03/03/2021 1-0-8 Scale = 1:11.1 5.00 12 2x4 || 0-3-10 2x4 = LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) TCLL (roof) 25.0 Plate Grip DOL 1.15 TC Vert(LL) -0.00 240 197/144 0.10 5 >999 MT20 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 ВС 0.03 Vert(CT) -0.00 4-5 >999 180 TCDI 10.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.00 3 n/a n/a

Matrix-MR

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BCLL

BCDL

TOP CHORD 2x4 SPF No.2

0.0

10.0

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

3=Mechanical, 4=Mechanical, 5=0-3-8 REACTIONS. (size) Max Horz 5=30(LC 9)

Max Uplift 3=-16(LC 12), 5=-19(LC 8)

Max Grav 3=49(LC 17), 4=35(LC 7), 5=201(LC 17)

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

Code IRC2018/TPI2014

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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 100 lb uplift at joint(s) 3, 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.



Weight: 7 lb

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

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

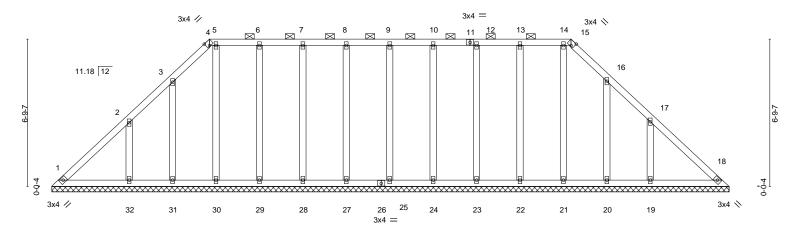
except end verticals.

FT = 20%





RELEASE FOR Job Truss Truss Type Qty Summit/66 Woodside CONSTRUCTION AS NOTED ON PLANS RE **GABLE** 2648535 LG1 **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES 8.240 s Mar 9 2020 MiTek Industries, Incl. Libr 5.1823MW241 10135 04481 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-b?DYtvilvzGDQBsN9EQQxDvCxwnLSVFsbg93y1z3QrY 31-2-9 03/03/2021 16-7-13 7-3-6 Scale = 1:53.1



0-0-4 0-0-4		31-2-9 31-2-5						\dashv
Plate Offsets (X,Y) [4:0-1-10	0,Edge], [15:0-1-10,Edge]							
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 0.12 BC 0.07 WB 0.11 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) n/a - n/a - 0.00 18	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 157 lb	GRIP 197/144 FT = 20%

LUMBER-BRACING-

2x4 SPF No.2 TOP CHORD TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except

BOT CHORD 2x4 SPF No.2 2-0-0 oc purlins (6-0-0 max.): 4-15. **OTHERS** 2x4 SPF No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 31-2-5.

(lb) -Max Horz 1=-122(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 32, 31, 30, 29, 28, 27, 25, 24, 23, 22, 20, 19

All reactions 250 lb or less at joint(s) 1, 18, 31, 30, 29, 28, 27, 25, 24, 23, 22, 21, 20 except Max Grav

32=307(LC 19), 19=312(LC 20)

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 32, 31, 30, 29, 28, 27, 25, 24, 23, 22, 20, 19.
- 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.



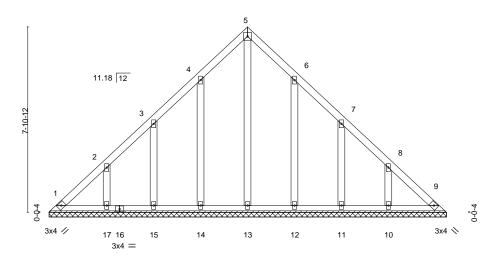
June 24,2020







RELEASE FOR Job Truss Truss Type Qty Summit/66 Woodside CONSTRUCTION AS NOTED ON PLANS RE 2648535 LG2 **GABLE DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES 8.240 s Mar 9 2020 MiTek Industries, Incl. Libr 5.1823MW24144155 GARAGE Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-?avhWxkACueoHeayqN_7YrXj77pcfs2JHeOjZMz3QrV 16-11-6 03/03/2021 8-5-11 8-5-11 4x4 = Scale = 1:49.1



16-11-6

Plate Offsets (X,Y)	[6:0-0-0,0-0-0], [7:0-0-0,0-0-0], [8:0-0-0,0-0-0]

1 1010 0110010 (71) 17 [010 0 0]								
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 0.06 BC 0.03 WB 0.11	DEFL. in Vert(LL) n/a Vert(CT) n/a Horz(CT) 0.00	(loc) - - 9	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0	Code IRC2018/TPI2014	Matrix-S	` '				Weight: 78 lb	FT = 20%
BCDL 10.0	Code IRC2018/11/12014	IVIALITX-S					vveignt: 78 ib	F1 = 20%

LUMBER-

OTHERS

2x4 SPF No.2 TOP CHORD **BOT CHORD** 2x4 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 16-11-2.

2x4 SPF No.2

(lb) -Max Horz 1=-142(LC 6)

Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 17, 15, 14, 12, 11, 10 Max Grav All reactions 250 lb or less at joint(s) 1, 9, 17, 15, 14, 13, 12, 11, 10

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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) 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, 17, 15, 14, 12, 11, 10,
- 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.





RELEASE FOR Job Truss Truss Type Qty Summit/66 Woodside CONSTRUCTION AS NOTED ON PLANS RE 2648535 LG3 **GABLE DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES 8.240 s Mar 9 2020 MiTek Industries, Incl. Etc. S. 523 MW44 7 MUSS PAUR I Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-Q9bp8yn3Vp0N86JXVVXqAU9BHLqysBAlzccN9hz3QrS 23-0-6 03/03/2021 13-4-2 3x4 // 3x4 Scale = 1:52.4 12 🖂 7 10 11 13 14 11.18 12 X M M M M K 3x4 // 27 26 25 24 23 22 21 20 19 18 17 16 15 3x4 = 3x4 II 23-0-6 Plate Offsets (X,Y)--[6:0-1-10,Edge]

TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.25 BC 0.12 WB 0.15	DEFL. in Vert(LL) n/a Vert(CT) n/a Horz(CT) -0.00	(loc) - - 15	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
BCLL 0.0	Code IRC2018/TPI2014	Matrix-S	1.0.2(0.1) 0.00			.,,	Weight: 153 lb	FT = 20%
BCDL 10.0	Code IRC2016/1FI2014	iviatiix-3					Weight. 155 ib	FT = 2076

LUMBER-BRACING-

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

TOP CHORD **BOT CHORD WEBS**

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-14. Rigid ceiling directly applied or 10-0-0 oc bracing.

1 Row at midpt

14-15, 7-22, 8-21, 9-20, 10-19, 11-18, 12-17, 13-16

REACTIONS. All bearings 23-0-2.

Max Horz 1=253(LC 7) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 27, 26, 25, 23, 22, 21, 20, 19, 18, 17, 16 except

15=-113(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 1, 15, 27, 26, 25, 23, 22, 21, 20, 19, 18, 17, 16

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

TOP CHORD 1-2=-265/173

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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); Pq=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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 27, 26, 25, 23, 22, 21, 20, 19, 18, 17, 16 except (jt=lb) 15=113.
- 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.







RELEASE FOR Job Truss Truss Type Qty Summit/66 Woodside CONSTRUCTION AS NOTED ON PLANS RE 2648535 LG4 **GABLE DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES 8.240 s Mar 9 2020 MiTek Industries, Incl. Libr 5.1823MW24194135 GAUST Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-MYiaZeoJ1QG5NPTvdwaIFvFZU8WgK5o2Rw5UEZz3QrQ 03/03/2021 8-5-11 5-0-0 Scale = 1:46.2

3x4 =

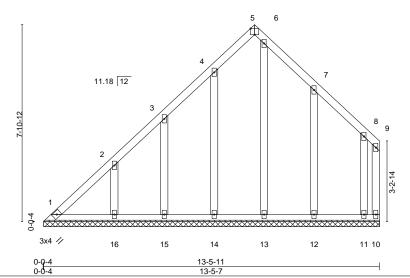


Plate Offsets (X,Y) [5:0-2-0,E	dge]										
LOADING (psf) TCLL (roof) Snow (Pf/Pg) 15. TCDL BCLL	25.0 4/20.0 10.0 0.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC BC WB	0.08 0.04 0.14	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a -0.00	(loc) - - 10	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
BCDL	10.0	Code IRC2018/TF	PI2014	Matr	ix-S						Weight: 70 lb	FT = 20%

LUMBER-

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

WEBS 2x4 SPF No.2 **OTHERS** 2x4 SPF No.2 BRACING-

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

except end verticals.

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

REACTIONS. All bearings 13-5-7.

Max Horz 1=173(LC 7) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 10, 16, 15, 14, 13, 12, 11 Max Grav All reactions 250 lb or less at joint(s) 1, 10, 16, 15, 14, 13, 12, 11

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

- 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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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) 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, 10, 16, 15, 14,
- 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.







RELEASE FOR Job Truss Truss Type Qty Summit/66 Woodside CONSTRUCTION AS NOTED ON PLANS RE 2648535 LG5 **GABLE DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES 8.240 s Mar 9 2020 MiTek Industries, Incl. Etc. S. 523 MW 422 W 155 PAURI Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-m7OiBgqCJLegFtBUI27?tXt59MYQXTqU7uK8ruz3QrN 03/03/2021 5-6-10 3x4 // Scale = 1:41.1 3x4 =15.60 12

10 6-11-1 15.60 12 11 3x4 ¹,3-6 13 12 _{3x4} // 15 14

7-11-1 13-5-10

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

	3-1, [,]			
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.05 BC 0.04 WB 0.12	DEFL. in (loc) l/defl L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999 Horz(CT) -0.00 9 n/a n/a	PLATES GRIP MT20 197/144
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-S		Weight: 66 lb FT = 20%

LUMBER-BRACING-

2x4 SPF No.2 TOP CHORD TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except

BOT CHORD 2x4 SPF No.2 2-0-0 oc purlins (6-0-0 max.): 5-9. **OTHERS** 2x4 SPF No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 13-5-10.

(lb) -Max Horz 1=178(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 12, 16, 14, 13, 11, 10 except 15=-109(LC 10)

Max Grav All reactions 250 lb or less at joint(s) 1, 9, 12, 16, 15, 14, 13, 11, 10

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9, 12, 16, 14, 13, 11, 10 except (jt=lb) 15=109.
- 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.



June 24,2020



RELEASE FOR Job Truss Truss Type Qty Summit/66 Woodside CONSTRUCTION AS NOTED ON PLANS RE 2648535 LG6 **GABLE DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES 8.240 s Mar 9 2020 MiTek Industries, Incl. Etc. S. 523 MW 42 44 135 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-jWWTcLs\$rzuNUBLtQT9TyyyRd9Dv?MynaCpFvnz3QrL 03/03/2021 3x4 // Scale = 1:53.9

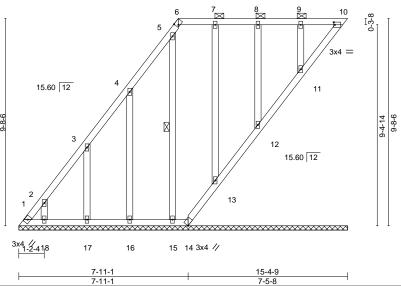


Plate Offsets (X,Y)-- [6:0-1-4.Edge], [10:0-0-12.0-1-8]

	3-1, [,]			
LOADING (psf) TCLL (roof) 25.0 Snow (Pf/Pg) 20.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.05 BC 0.03 WB 0.14	DEFL. in (loc) l/defl L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999 Horz(CT) -0.00 10 n/a n/a	PLATES GRIP MT20 197/144
BCLL 0.0 BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	. (1)	Weight: 84 lb FT = 20%

LUMBER-BRACING-

2x4 SPF No.2 TOP CHORD TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except **BOT CHORD** 2x4 SPF No.2 2-0-0 oc purlins (6-0-0 max.): 6-10.

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

WEBS 1 Row at midpt 5-15

REACTIONS. All bearings 15-4-9.

(lb) -Max Horz 1=241(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 10, 14, 18, 17, 15, 13, 12, 11 except 1=-119(LC 8), 16=-106(LC

Max Grav All reactions 250 lb or less at joint(s) 10, 14, 18, 17, 16, 15, 13, 12, 11 except 1=253(LC 10)

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

TOP CHORD 1-2=-319/171

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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.
- 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 14, 18, 17, 15, 13, 12, 11 except (jt=lb) 1=119, 16=106.
- 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 10, 13, 12, 11.
- 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.



June 24,2020



RELEASE FOR Job Truss Truss Type Qty Summit/66 Woodside CONSTRUCTION AS NOTED ON PLANS RE 2648535 LG7 **GABLE DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES 8.240 s Mar 9 2020 MiTek Industries, Incl. Libr 5.1823MW24274155 GARAGE Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-74BbENuK8uHyLe4S5bjAabay?NFkCleDHA1vW5z3Qrl 7-4-12 03/03/2021 3-8-6 3-8-6 Scale = 1:26.9

4x4 =

3 13.00 12 2x4 || 2x4 || 2x4 📏 2x4 || 2x4 || 2x4

	1 1 12										
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 0.05 BC 0.03 WB 0.02	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) n/a - n/a 999 MT20 197/14 Vert(CT) n/a - n/a 999 MT20 197/14 Horz(CT) 0.00 5 n/a n/a n/a n/a								
BCLL 0.0	Code IRC2018/TPI2014	Matrix-P		Γ = 20%							
BCDI 10.0	0000 11102010/11 12011	Width 1	Wolght. 27 lb 1 1	- 2070							

7-4-12 7-4-12

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. All bearings 7-4-12. Max Horz 1=70(LC 7)

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

NOTES-

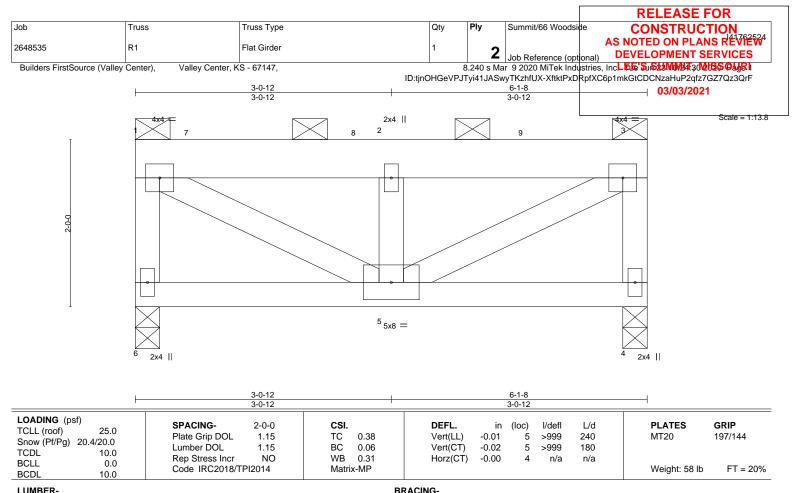
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate 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.



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

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





TOP CHORD

BOT CHORD

2-0-0 oc purlins (6-0-0 max.): 1-3, except end verticals.

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

LUMBER-

TOP CHORD 2x6 SPF No 2 BOT CHORD 2x4 SPF No.2 2x4 SPF No.2 **WEBS**

REACTIONS. (size)

6=0-3-8, 4=0-3-8 Max Horz 6=-44(LC 6) Max Uplift 6=-99(LC 6), 4=-78(LC 7) Max Grav 6=2408(LC 1), 4=1923(LC 1)

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

1-6=-2362/107, 1-2=-2212/86, 2-3=-2212/86, 3-4=-1877/86 TOP CHORD

WFRS 2-5=-2440/125, 3-5=-108/2532, 1-5=-108/2532

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 4) 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.
- 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) 6, 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.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1340 lb down and 64 lb up at 0-9-0, and 1287 lb down and 63 lb up at 2-9-0, and 1236 lb down and 59 lb up at 4-9-0 on top 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: 1-3=-61, 4-6=-20

OF MISS SCOTT M. SEVIER OFFISSIONAL STATES PE-2001018807

June 24,2020



🗥 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



Job Truss Truss Type Qty Ply Summit/66 Woodside Flat Girder R1 2648535 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW **DEVELOPMENT SERVICES**

| Job Reference (optional) | DEVELOPMENT SERVICES | 8.240 s Mar 9 2020 MiTek Industries, Include | Substitute | Substitute

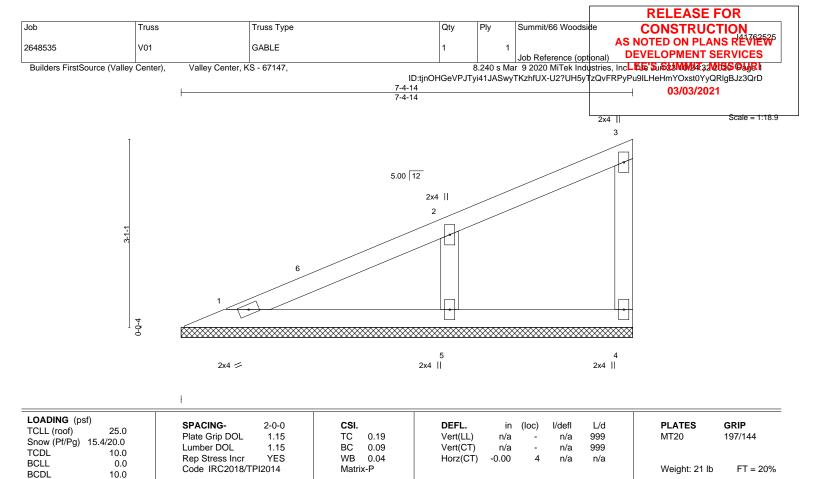
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03/03/2021

LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: 7=-1339 8=-1286 9=-1235





BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2

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

OTHERS 2x4 SPF No.2

(size) 1=7-4-14, 4=7-4-14, 5=7-4-14

Max Horz 1=82(LC 11)

Max Uplift 4=-8(LC 9), 5=-39(LC 12)

Max Grav 1=130(LC 2), 4=94(LC 16), 5=388(LC 16)

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

2-5=-306/74 WEBS

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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.

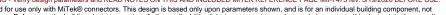


Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

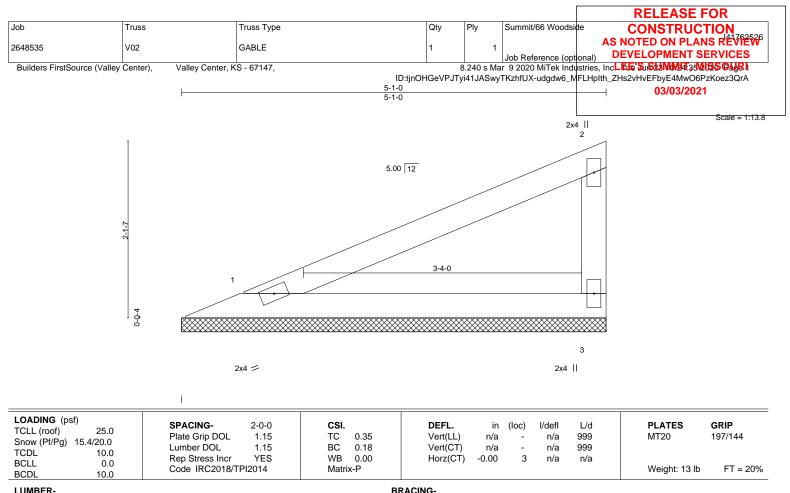
except end verticals.











TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

1=5-1-0, 3=5-1-0 (size) Max Horz 1=53(LC 11)

Max Uplift 1=-6(LC 12), 3=-15(LC 12)

Max Grav 1=198(LC 16), 3=198(LC 16)

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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.



Structural wood sheathing directly applied or 5-1-0 oc purlins,

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

except end verticals.





RELEASE FOR Job Truss Truss Type Qty Summit/66 Woodside CONSTRUCTION AS NOTED ON PLANS RE 2648535 V03 Valley **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.240 s Mar 9 2020 MiTek Industries, Incl. Lib. 3.623MW243341135 GAUST Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-ICMmY81EYGfO9KQZEPPIXvXpdp??HjfrpNC_Pzz3Qr7 03/03/2021 3-1-11 Scale = 1:9.3 2x4 || 5.00 12 0-0-4 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 0.08 BC 0.05 WB 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (l n/a n/a -0.00	(loc) - - 3	I/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P						Weight: 7 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

2x4 ||

except end verticals.

Structural wood sheathing directly applied or 3-1-11 oc purlins,

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

LUMBER-

2x4 SPF No 2 TOP CHORD

BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2

REACTIONS. 1=3-1-2, 3=3-1-2 (size) Max Horz 1=28(LC 9)

Max Uplift 1=-3(LC 12), 3=-8(LC 12) Max Grav 1=101(LC 2), 3=101(LC 2)

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

2x4 /

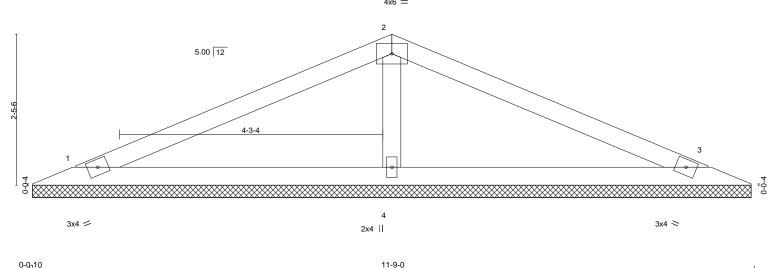
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Gable requires continuous bottom chord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







RELEASE FOR Job Truss Truss Type Qty Summit/66 Woodside CONSTRUCTION AS NOTED ON PLANS RE 2648535 V04 Valley **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES 8.240 s Mar 9 2020 MiTek Industries, Incl. Libr 5.1823MW2440V155 GARAGE Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-FbTWzq2U4tv6PeZyMqSDcKc4CcenldL7Ghh5Trz3Qr5 03/03/2021 5-10-8 5-10-8 Scale = 1:18.7 4x6 =



0-0₇10 0-0-10 11-8-6 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES GRIP** (loc) TCLL (roof) 25.0 Plate Grip DOL TC Vert(LL) 999 197/144 1.15 0.40 n/a n/a MT20 Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 ВС 0.22 Vert(CT) 999 n/a n/a **TCDL** 10.0 Rep Stress Incr YES WB 0.05 Horz(CT) 0.00 3 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-S Weight: 28 lb FT = 20% **BCDL** 10.0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

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

BOT CHORD **OTHERS**

2x4 SPF No.2

REACTIONS. 1=11-7-13, 3=11-7-13, 4=11-7-13 (size) Max Horz 1=20(LC 12) Max Uplift 1=-15(LC 12), 3=-18(LC 13)

Max Grav 1=225(LC 16), 3=225(LC 17), 4=516(LC 2)

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

2-4=-361/40 WEBS

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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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.
- 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.

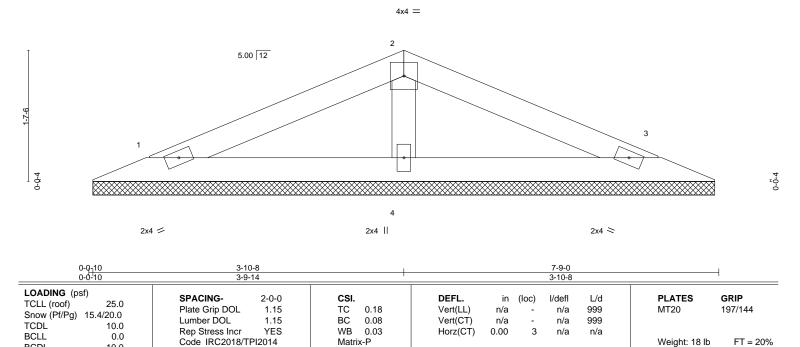


Structural wood sheathing directly applied or 6-0-0 oc purlins.

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



RELEASE FOR Job Truss Truss Type Qty Summit/66 Woodside CONSTRUCTION AS NOTED ON PLANS RE 2648535 V05 Valley **DEVELOPMENT SERVICES** Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inclade Sustantina 43465 Page I Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-f99fbr5NNoIhG5IX1y?wEzEfvqhby_UayfvI4Az3Qr2 03/03/2021 3-10-8 3-10-8 Scale = 1:14.2



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BCDL

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

10.0

BOT CHORD WEBS 2x4 SPF No.2

REACTIONS. 1=7-7-13, 3=7-7-13, 4=7-7-13 (size)

Max Horz 1=12(LC 12)

Max Uplift 1=-12(LC 12), 3=-14(LC 13)

Max Grav 1=140(LC 16), 3=140(LC 17), 4=283(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; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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
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- 7) 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.



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

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







RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW BEVELOPMENT SERVICES SUMMIT, MISSOURIES are indicated. Dimensions are in t-in-sixteenths. Apply plates to both sides of truss and fully embed teeth. For 4 x 2 orientation, locate plate on joint unless x, y offsets are indicated. For 4 x 2 orientation, locate

* Plate location details available in MiTek 20/20 software or upon request.

connector plates.

This symbol indicates the required direction of slots in plates 0- 1/16" from outside

edge of truss.

PLATE SIZE

4 × 4

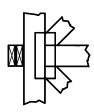
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING



Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

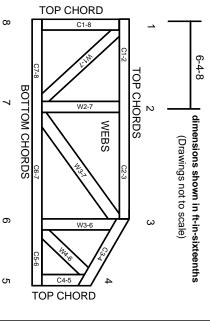
Min size shown is for crushing only

Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing.
Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-89:

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.

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Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

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- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber

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- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21.The design does not take into account any dynamic or other loads other than those expressly stated.