

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/04/2023

MiTek USA, Inc.

314-434-1200

16023 Swingley Ridge Rd Chesterfield, MO 63017

RE: 3603730 Summit/193 Highland Meadows

Site Information:

Customer: Project Name: 3603730 Lot/Block: Address: City:

Model: Subdivision: State:

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

Design Code: IRC2018/TPI2014 Wind Code: ASCE 7-16 Roof Load: 45.0 psf Design Program: MiTek 20/20 8.6 Wind Speed: 115 mph Floor Load: N/A psf

This package includes 75 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	158837488	A1	6/12/2023	21	158837508	CJ8	6/12/2023
2	158837489	A2	6/12/2023	22	158837509	CJ9	6/12/2023
3	158837490	A3	6/12/2023	23	158837510	CJ10	6/12/2023
4	158837491	A4	6/12/2023	24	158837511	D1	6/12/2023
5	158837492	A5	6/12/2023	25	158837512	D2	6/12/2023
6	158837493	A6	6/12/2023	26	158837513	E1	6/12/2023
7	158837494	A7	6/12/2023	27	158837514	E2	6/12/2023
8	158837495	A8	6/12/2023	28	158837515	E3	6/12/2023
9	158837496	A9	6/12/2023	29	158837516	E4	6/12/2023
10	158837497	B1	6/12/2023	30	158837517	F1	6/12/2023
11	158837498	B1A	6/12/2023	31	158837518	F2	6/12/2023
12	158837499	B2	6/12/2023	32	158837519	F3	6/12/2023
13	158837500	B3	6/12/2023	33	158837520	F4	6/12/2023
14	158837501	CJ1	6/12/2023	34	158837521	J1	6/12/2023
15	158837502	CJ2	6/12/2023	35	158837522	J2	6/12/2023
16	158837503	CJ3	6/12/2023	36	158837523	J3	6/12/2023
17	158837504	CJ4	6/12/2023	37	158837524	J4	6/12/2023
18	158837505	CJ5	6/12/2023	38	158837525	J5	6/12/2023
19	158837506	CJ6	6/12/2023	39	158837526	J6	6/12/2023
20	158837507	CJ7	6/12/2023	40	158837527	J7	6/12/2023

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, 2023. 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.



Sevier, Scott



RE: 3603730 - Summit/193 Highland Meadows

Site Information:

Project Customer:	Project Name:	3603730
Lot/Block:		
Address:		
City, County:		

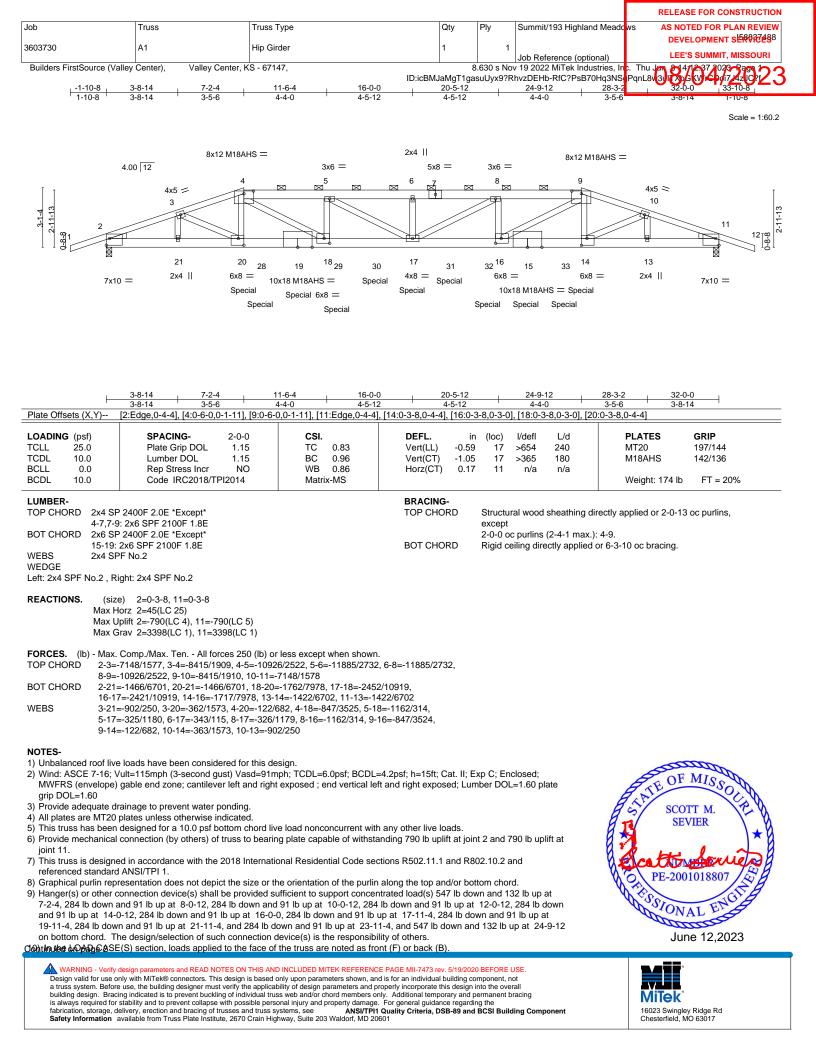
41I58837528J86/12/202342I58837529J96/12/202343I58837530J106/12/202344I58837531J116/12/202345I58837532J126/12/202346I58837533J136/12/202347I58837534J146/12/202348I58837535J156/12/202349I58837536J166/12/202350I58837537J176/12/202351I58837538J186/12/2023	No.	Seal#	Truss Name	Date
42I58837529J96/12/202343I58837530J106/12/202344I58837531J116/12/202345I58837532J126/12/202346I58837533J136/12/202347I58837534J146/12/202348I58837535J156/12/202349I58837536J166/12/202350I58837537J176/12/202351I58837538J186/12/2023	41	158837528	J8	6/12/2023
44I58837531J116/12/202345I58837532J126/12/202346I58837533J136/12/202347I58837534J146/12/202348I58837535J156/12/202349I58837536J166/12/202350I58837537J176/12/202351I58837538J186/12/2023	42	158837529	J9	
45I58837532J126/12/202346I58837533J136/12/202347I58837534J146/12/202348I58837535J156/12/202349I58837536J166/12/202350I58837537J176/12/202351I58837538J186/12/2023	43	158837530	J10	6/12/2023
46 I58837533 J13 6/12/2023 47 I58837534 J14 6/12/2023 48 I58837535 J15 6/12/2023 49 I58837536 J16 6/12/2023 50 I58837537 J17 6/12/2023 51 I58837538 J18 6/12/2023	44	158837531	J11	6/12/2023
47I58837534J146/12/202348I58837535J156/12/202349I58837536J166/12/202350I58837537J176/12/202351I58837538J186/12/2023	45	158837532	J12	6/12/2023
48I58837535J156/12/202349I58837536J166/12/202350I58837537J176/12/202351I58837538J186/12/2023	46	158837533	J13	6/12/2023
49I58837536J166/12/202350I58837537J176/12/202351I58837538J186/12/2023	47	158837534	J14	6/12/2023
50I58837537J176/12/202351I58837538J186/12/2023	48	158837535	J15	6/12/2023
51 I58837538 J18 6/12/2023	49	158837536	J16	6/12/2023
	50	158837537	J17	6/12/2023
E2 1E9927E20 140 0/40/0002	-	158837538	J18	6/12/2023
	52	158837539	J19	6/12/2023
53 I58837540 J20 6/12/2023	53	158837540	J20	6/12/2023
54 I58837541 J21 6/12/2023	54	158837541	J21	6/12/2023
55 I58837542 J22 6/12/2023	55	158837542	J22	6/12/2023
56 I58837543 J23 6/12/2023	56	158837543	J23	6/12/2023
57 I58837544 J24 6/12/2023	57	158837544	J24	6/12/2023
58 I58837545 J25 6/12/2023	58	158837545	J25	6/12/2023
59 I58837546 J26 6/12/2023	59	158837546	J26	6/12/2023
60 I58837547 J27 6/12/2023		158837547	J27	6/12/2023
61 I58837548 J28 6/12/2023	61	158837548	J28	6/12/2023
62 I58837549 J29 6/12/2023	-	158837549		6/12/2023
63 I58837550 L1 6/12/2023		158837550		
64 I58837551 LG1 6/12/2023		158837551		
65 I58837552 LG2 6/12/2023	65	158837552	-	6/12/2023
66 I58837553 LG3 6/12/2023				
67 I58837554 P1 6/12/2023	-			
68 I58837555 P2 6/12/2023			· -	
69 I58837556 P3 6/12/2023				
70 I58837557 P4 6/12/2023	-			
71 I58837558 P5 6/12/2023			-	
72 I58837559 P6 6/12/2023				
73 I58837560 V1 6/12/2023	-			
74 I58837561 V2 6/12/2023				
75 I58837562 V3 6/12/2023	75	158837562	V3	6/12/2023

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2	of	2
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Subdivision:

State:



						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Summit/193 Highland Meado	WS AS NOTED FOR PLAN REVIEW
						DEVELOPMENT SERVICES
3603730	A1	Hip Girder	1	1	lob Reference (optional)	LEE'S SUMMIT, MISSOURI
		<u> </u>			Job Reference (optional)	
Builders FirstSource (valley Center),	Valley Center, KS - 67147,	ID:icBM.laMoT1o	3.630 S NO\ ISULIVX92RI	/ 19 2022 Millek Industries, In hvzDEHb-RfC2PsB70Ha3NS	c. Thu Jan 614/1237/1023-Rags 2 PgnL8v3Ji (XbG (V) Chylir 4zl()?i23
			12.102.10dillig1 igt			

LOAD CASE(S) Standard

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

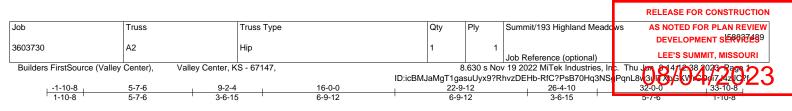
Vert: 1-4=-70, 4-9=-70, 9-12=-70, 22-25=-20

Concentrated Loads (lb)

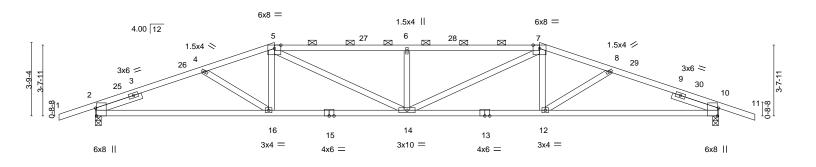
Vert: 19=-284(B) 20=-547(B) 17=-284(B) 14=-547(B) 15=-284(B) 28=-284(B) 29=-284(B) 30=-284(B) 31=-284(B) 32=-284(B) 33=-284(B) 33=-2

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





Scale = 1:59.2



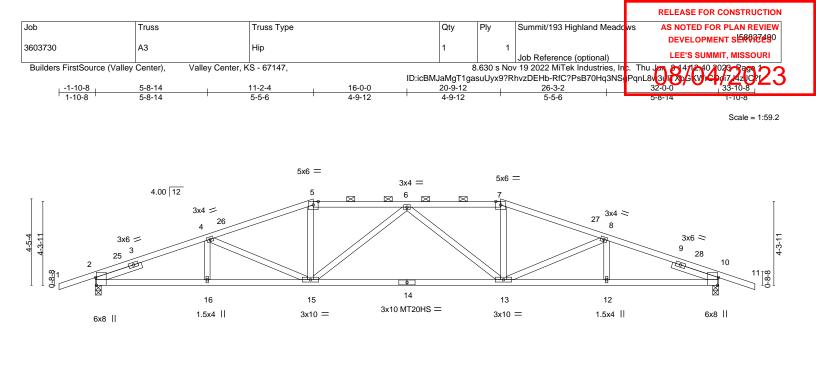
L	9-2-4	16-0-0		9-12		32-0-0	
	9-2-4	6-9-12	6-	9-12		9-2-4	
Plate Offsets (X,Y)	[2:0-4-13,Edge], [10:0-4-13,Edge]						
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.76 BC 0.97 WB 0.23 Matrix-AS	Vert(LL) -0.3	6 12-14 >692	L/d 240 180 n/a	PLATES MT20 Weight: 121 lb	GRIP 197/144 FT = 20%
5-7: 2x 3OT CHORD 2x4 SP VEBS 2x4 SP	PF No.2 *Except* 4 SPF 1650F 1.5E PF No.2 9F No.2 4 SPF No.2 2-6-0. Right 2x4 SPF No.2		BRACING- TOP CHORD BOT CHORD	Structural wood 2-0-0 oc purlins Rigid ceiling dire	(3-2-8 max.): 5	ctly applied, except -7.	
Max H Max U Max G FORCES. (Ib) - Max.	e) 2=0-3-8, 10=0-3-8 lorz 2=-56(LC 13) lplift 2=-313(LC 8), 10=-313(LC 9) irav 2=1571(LC 1), 10=1571(LC 1) Comp./Max. Ten All forces 250 (lb) o -3016/623, 4-5=-2941/587, 5-6=-3516/7.						
8-10= 3OT CHORD 2-16=	=-3016/623 =-508/2789, 14-16=-442/2792, 12-14=-4 =0/261, 5-14=-197/947, 6-14=-574/195,	50/2792, 10-12=-517/278	9				
 Wind: ASCE 7-16; V MWFRS (envelope) Interior(1) 13-8-9 to vertical left and right Provide adequate dr This truss has been 	e loads have been considered for this de /ult=115mph (3-second gust) Vasd=91n gable end zone and C-C Exterior(2E) - 22-9-12, Exterior(2R) 22-9-12 to 27-4-1 exposed;C-C for members and forces rainage to prevent water ponding. designed for a 10.0 psf bottom chord lix connection (by others) of fruss to bearin	hph; TCDL=6.0psf; BCDL= I-10-8 to 1-3-14, Interior(1 Interior(1) 27-4-1 to 33-1 & MWFRS for reactions share the load nonconcurrent with) 1-3-14 to 9-2-4, Exter 0-8 zone; cantilever lef nown; Lumber DOL=1.6 n any other live loads.	rior(2R) 9-2-4 to 13 t and right exposed 50 plate grip DOL=	l ; end 1.60	5 F OF	MISSO

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 313 lb uplift at joint 2 and 313 lb uplift at joint 10.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) 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.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





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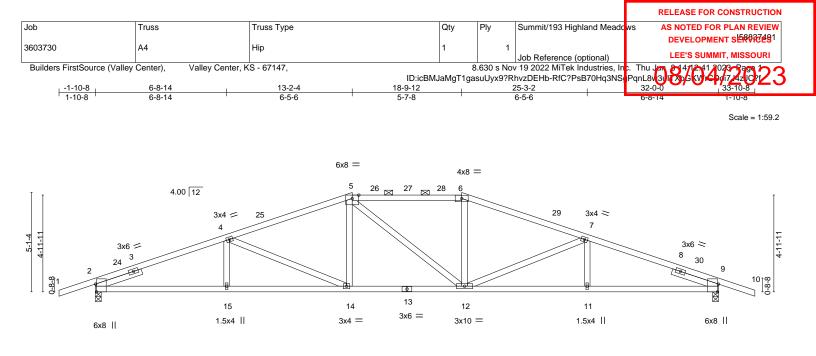
 	<u>5-8-14</u> <u>11-2-4</u> 5-8-14 <u>5-5-6</u>		<u>20-9-12</u> 9-7-8	26-3-2	32-0-0
Plate Offsets (X,Y)	[2:0-4-13,Edge], [10:0-4-13,Edge]		3-7-0	5-5-0	3-0-14
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.76 BC 0.92 WB 0.34 Matrix-AS	Vert(LL) -0.27	n (loc) l/defi L/d 7 13-15 >999 240 4 13-15 >605 180 4 10 n/a n/a	PLATES GRIP MT20 197/144 MT20HS 148/108 Weight: 125 lb FT = 20%
WEBS 2x4 SP SLIDER Left 2x4	F 1650F 1.5E F No.2 4 SPF No.2 2-6-0, Right 2x4 SPF No.2	2-6-0	BRACING- TOP CHORD BOT CHORD	Structural wood sheathing o 2-0-0 oc purlins (3-5-3 max Rigid ceiling directly applied	.): 5-7.
Max H. Max U Max G FORCES. (Ib) - Max. TOP CHORD 2-4=- 8-10=	 2=0-3-8, 10=0-3-8 z=-67(LC 17) plift 2=-305(LC 8), 10=-305(LC 9) rav 2=1571(LC 1), 10=1571(LC 1) Comp./Max. Ten All forces 250 (lb) c 3035/617, 4-5=-2789/576, 5-6=-2605/5 -3035/617 -506/2817, 15-16=-506/2817, 13-15=- 	75, 6-7=-2605/575, 7-8=-	2789/576,		
WEBS 4-15= 8-13= NOTES- 1) Unbalanced roof live	258/131, 5-15=-37/478, 6-15=-471/14 258/132	8, 6-13=-471/148, 7-13=- esign.	37/478,	Exp C: Enclosed:	
MWFRS (envelope) 16-0-0, Interior(1) 16 exposed ; end vertic grip DOL=1.60 3) Provide adequate dr 4) All plates are MT20 j 5) This truss has been 6) Provide mechanical joint 10.	gable end zone and C-C Exterior(2E) -0-0 to 20-9-12, Exterior(2R) 20-9-12 t al left and right exposed;C-C for membrain plates unless otherwise indicated. designed for a 10.0 psf bottom chord ling connection (by others) of truss to bear	1-10-8 to 1-3-14, Interior(5 25-4-1, Interior(1) 25-4 ers and forces & MWFRS ve load nonconcurrent wit ng plate capable of withst	1) 1-3-14 to 11-2-4, Exte 1 to 33-10-8 zone; cantile for reactions shown; Lui h any other live loads. anding 305 lb uplift at joi	rior(2R) 11-2-4 to ever left and right mber DOL=1.60 plate nt 2 and 305 lb uplift at	STATE OF MISSOL
referenced standard 8) This truss design rec	I in accordance with the 2018 Internat ANSI/TPI 1. quires that a minimum of 7/16" structure d directly to the bottom chord.				Statter Services

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



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	6-8-14	13-2-4 6-5-6	18-9-12 5-7-8	25-3-2 6-5-6	<u>32-0-0</u> 6-8-14	
late Offsets (X,Y)	[2:0-4-13,Edge], [9:0-4-13,Edge]	0-0-0	5-7-8	0-0-0	0-0-14	
.OADING (psf) TCLL 25.0 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 0.87 BC 0.80 WB 0.44	Vert(CT) -0	l/defl L/d >999 240 >816 180 n/a n/a	PLATES MT20	GRIP 197/144
CDL 10.0	Code IRC2018/TPI2014	Matrix-AS			Weight: 124 lb	FT = 20%
ZEBS 2x4 SP LIDER Left 2x EACTIONS. (size Max H Max U	4 SPF No.2 2-6-0, Right 2x4 SPF No.2	2-6-0	BOT CHORD	: purlins (3-6-2 max iling directly applied	,	
· · /	Comp./Max. Ten All forces 250 (lb) o 3067/618, 4-5=-2579/563, 5-6=-2383/5	70, 6-7=-2579/563, 7-9=-3				

MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-3-14, Interior(1) 1-3-14 to 13-2-4, Exterior(2R) 13-2-4 to 17-8-9, Interior(1) 17-8-9 to 18-9-12, Exterior(2R) 18-9-12 to 23-4-1, Interior(1) 23-4-1 to 33-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 295 lb uplift at joint 2 and 295 lb uplift at joint 9.

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

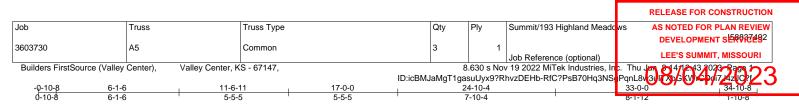
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

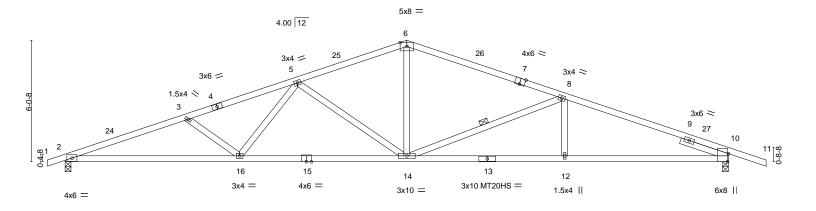


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Scale = 1:57.3



	<u>8-8-3</u>		<u>17-0-0</u> 8-3-13		24-1			<u>33-0-0</u> 8-1-12	
Plate Offsets (X,Y)	[7:0-3-0,Edge], [10:0-4-13	,Edge]							
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TP	2-0-0 1.15 1.15 YES I2014	CSI. TC 0.71 BC 0.85 WB 0.69 Matrix-AS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.29 12 -0.56 12 0.16	2-14 > 2-14 >	/defl L/d 999 240 703 180 n/a n/a	PLATES MT20 MT20HS Weight: 119 lb	GRIP 197/144 148/108 FT = 20%
BOT CHORD 6-7,7- 2x4 Si 13-15: WEBS 2x4 Si SLIDER REACTIONS. (siz	PF No.2 *Except* 11: 2x4 SPF 1650F 1.5E PF 1650F 1.5E *Except* : 2x4 SPF No.2 PF No.2 2x4 SPF No.2 2-6-0 2x4 SPF No.2 2-6-0 2e0 2=0-3-8, 10=0-3-8 4orz 2=96(LC 12)			BRACING- TOP CHOR BOT CHOR WEBS	D R		wood sheathing on going directly applied midpt		
Max L Max C FORCES. (lb) - Max TOP CHORD 2-3= BOT CHORD 2-16 WEBS 3-16	Jplift 2=-249(LC 8), 10=-28 Grav 2=1543(LC 1), 10=16 . Comp./Max. Ten All ford -3776/669, 3-5=-3403/599, =-570/3531, 14-16=-422/21 =-456/178, 5-16=-47/553, 4 =0/274	19(LC 1) ces 250 (lb) or , 5-6=-2355/48 848, 12-14=-4	33, 6-8=-2386/471, 8-10=- 56/2954, 10-12=-456/2954	3186/570 4					
2) Wind: ASCE 7-16; MWFRS (envelope Interior(1) 20-3-10 t & MWFRS for react	e loads have been conside Vult=115mph (3-second gu) gable end zone and C-C I to 34-10-8 zone; cantilever tions shown; Lumber DOL= plates unless otherwise in	st) Vasd=91m Exterior(2E) -0 left and right e 1.60 plate grip	ph; TCDL=6.0psf; BCDL= -10-8 to 2-5-2, Interior(1) exposed ; end vertical left	2-5-2 to 17-0-0, E	xterior(2F	R) 17-0-0) to 20-3-10,	STATES OF	MISS

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 249 lb uplift at joint 2 and 282 lb uplift at joint 10.

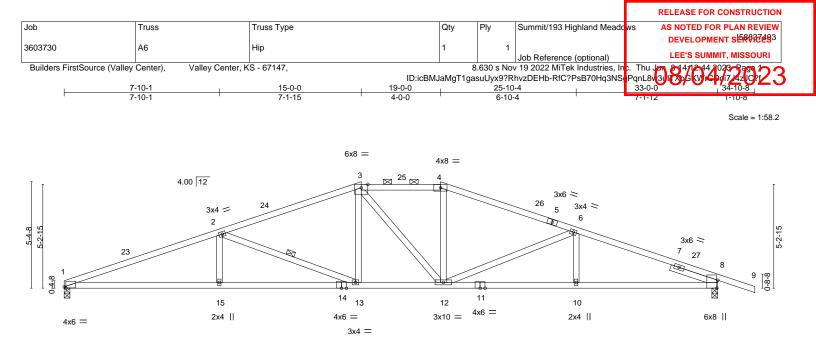
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

7) 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.



ent 16023 Swingley Ridge Rd Chesterfield, MO 63017

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		15-0-0 7-1-15	19-0-0 4-0-0	25-10- 6-10-4		33-0-0	
Plate Offsets (X,Y)	[1:0-1-1,0-0-10], [8:0-4-13,Edge]			0.10	•		
LOADING (psf) TCLL 25.0 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 0.96 BC 0.99 WB 0.59 Matrix-AS	DEFL. Vert(LL) Vert(CT) Horz(CT)	-0.28 10-12	l/defl L/d >999 240 >745 180 n/a n/a	PLATES MT20 Weight: 122 lb	GRIP 197/144 FT = 20%
SOT CHORD 2x4 SI 8-11: : WEBS 2x4 SI SLIDER Right : REACTIONS. (siz Max I Max I	SPF No.2 SPF No.2 *Except* 2x4 SPF 1650F 1.5E SPF No.2 2x4 SPF No.2 2-6-0 ze) 1=0-3-8, 8=0-3-8 Horz 1=-89(LC 17) Uplift 1=-229(LC 8), 8=-295(LC 9) Grav 1=1481(LC 1), 8=1620(LC 1)		BRACING- TOP CHOR BOT CHOR WEBS	2-0-0 oc	purlins (3-5-11 ma ling directly applied		
TOP CHORD 1-2= BOT CHORD 1-15 WEBS 2-15	K. Comp./Max. Ten All forces 250 (lb) or =-3705/723, 2-3=-2674/581, 3-4=-2422/56 5=-612/3449, 13-15=-612/3449, 12-13=-3 5=0/310, 2-13=-1073/259, 3-13=-44/482, 2 =-641/189	61, 4-6=-2630/564, 6-8=-3 86/2448, 10-12=-503/296	3195/613 35, 8-10=-503/2965				

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) gable end zone and C-C Exterior(2E) 0-0-0 to 3-3-10, Interior(1) 3-3-10 to 15-0-0, Exterior(2E) 15-0-0 to 19-0-0, Exterior(2R) 19-0-0 to 23-8-0, Interior(1) 23-8-0 to 34-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 229 lb uplift at joint 1 and 295 lb uplift at joint 8.

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

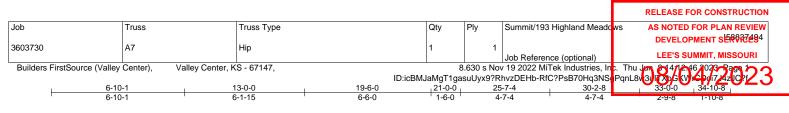
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

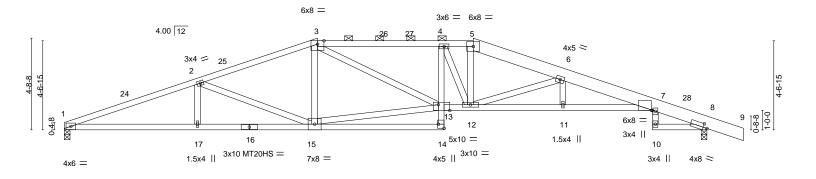




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Scale = 1:59.2



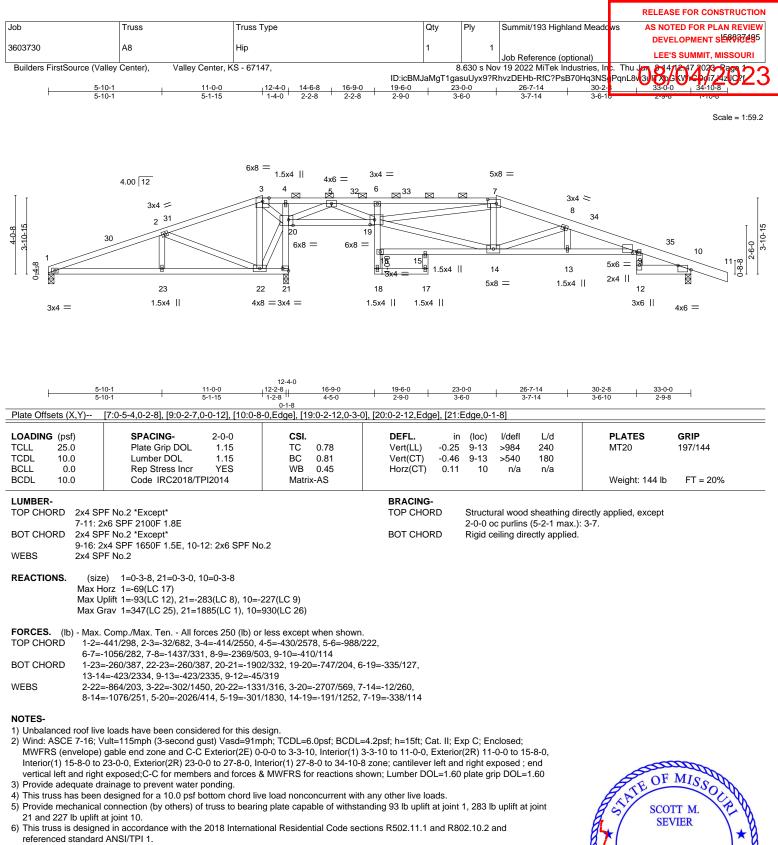
		3-0-0	19-6-0	21-0-0	25-7-4		30-2-8	33-0-0	
Plate Offsets (X,Y)	6-10-1 [7:0-0-11,Edge], [8:0-2-7,0-2-5],	-1-15 [13:0-7-0 Edge] [14:Edge	6-6-0 0-3-81	1-6-0	4-7-4		4-7-4	2-9-8	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0- Plate Grip DOL 1.11 Lumber DOL 1.11 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.84 BC 0.93	DE Ve Ve	FL. in (t(LL) -0.44 12 t(CT) -0.79 12 z(CT) 0.35	2-13 >903	L/d 240 180 n/a	MT2 MT2	. TES :0 :0HS ght: 160 lb	GRIP 197/144 148/108 FT = 20%
BOT CHORD 2x4 SF 7-13: 2	(8 SP 2400F 2.0E		то	2-	tructural wood a -0-0 oc purlins (igid ceiling dire	(2-2-0 max.)		d, except	
Max H Max U	e) 1=0-3-8, 8=0-3-8 lorz 1=-82(LC 17) Jplift 1=-239(LC 8), 8=-306(LC 9 Grav 1=1481(LC 1), 8=1620(LC 1								
TOP CHORD 1-2=- 6-7=- BOT CHORD 1-17:	Comp./Max. Ten All forces 25 -3763/742, 2-3=-2975/627, 3-4= -5115/1003, 7-8=-570/154 =-631/3511, 15-17=-631/3511, 1	3587/788, 4-5=-3468/741, 5	5-6=-3675/749,	5/5010,					
WEBS 2-15:	=-906/5011 =-820/224, 13-15=-423/2414, 3- ⁻ =-1688/366	3=-189/1038, 4-12=-429/12	24, 5-12=-200/1	053,					
2) Wind: ASCE 7-16; \	e loads have been considered fo /ult=115mph (3-second gust) Va gable end zone and C-C Exteric	d=91mph; TCDL=6.0psf; E							
Interior(1) 17-8-0 to vertical left and right	21-0-0, Exterior(2R) 21-0-0 to 25 t exposed;C-C for members and rainage to prevent water ponding	-7-4, Interior(1) 25-7-4 to 3 forces & MWFRS for reacti	4-10-8 zone; ca	ntilever left and ri	ght exposed ; e	end	Å	SE OF	MISSOL
	plates unless otherwise indicate designed for a 10.0 psf bottom of		nt with any othe	r live loads.			E.S.	SCOT	M. M.
joint 8.	connection (by others) of truss t					ift at	A.		/IER
referenced standard								حد	e f
sheetrock be applie	quires that a minimum of 7/16" s d directly to the bottom chord.	, i i i i i i i i i i i i i i i i i i i		·		m	A St	PE-200	1018807
9) Graphical purlin rep	resentation does not depict the s	ze or the orientation of the	purlin along the	top and/or botton	n chord.		N. T	200	IS B



June 12,2023



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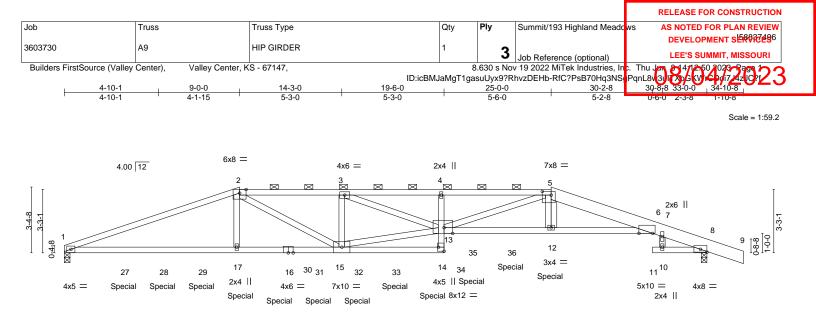
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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



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	4-10-			14-3-0	19-6-0		25-0-0				8 33-0	
	4-10-		0.0.01 [0.5.1	5-3-0	5-3-0		5-6-0		5-2	2-8 0 ¹ -6-	-0 2-3-	8 '
Plate Off	sets (X,Y)	[5:0-5-8,0-2-4], [6:0-8-8,	0-0-0], [8:Eage	,0-1-12], [13:0-5-4,Edge],	, [14:Edge,0-3-8]				1			
LOADIN TCLL TCDL BCLL	G (psf) 25.0 10.0 0.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 NO	CSI. TC 0.82 BC 0.95 WB 0.86	DEFL. Vert(LL) Vert(CT) Horz(CT)	-0.58	(loc) 12-13 12-13 8	l/defl >677 >377 n/a	L/d 240 180 n/a	PLATES MT20	i	GRIP 197/144
BCDL	10.0	Code IRC2018/T	PI2014	Matrix-MS						Weight: 4	445 lb	FT = 20%
LUMBER TOP CH BOT CH WEBS	ORD 2x4 SP 2-5: 2x ORD 2x4 SP	2 2400F 2.0E *Except* 4 SPF 1650F 1.5E, 5-9: F No.2 *Except* 13: 2x4 SP 2400F 2.0E F No.2	2x8 SP 2400F	2.0E	BRACING- TOP CHOR BOT CHOR		2-0-0 o	c purlins	(5-10-8 max.)			oc purlins, except
REACTI	Max H Max U	e) 1=0-3-8, 8=0-3-8 orz 1=-61(LC 34) plift 1=-860(LC 4), 8=-84 rav 1=3925(LC 1), 8=37										
FORCES TOP CH	ORD 1-2=- 5-6=- ORD 1-17=	10084/2273, 2-3=-1159 14118/3202, 6-7=-1082/	1/2700, 3-4=-10 306, 7-8=-121 02/9461, 14-15	r less except when showr 6697/3842, 4-5=-17203/39 I/319 =-315/1398, 13-14=-129/6	957,	б,						
WEBS	2-17=		682, 3-15=-24	55/606, 13-15=-2376/1050 /298	05, 3-13=-1211/53	36,						
NOTES-		nected together with 100	م (∩ 121"v2") م	alls as follows:								
Top cl Bottor	hords connecte n chords conne		v at 0-7-0 oc, 2 rows staggere	x8 - 2 rows staggered at (0-9-0 oc.						~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	m
ply co	nnections have		oute only loads	if noted as front (F) or bac noted as (F) or (B), unles esign.			ASE(S)	section. F	Ply to	E NTE	OF	MISSOL
MWF				nph; TCDL=6.0psf; BCDL t exposed ; end vertical le					ate	A SI	SCO	IT M.
		ainage to prevent water								8 1		
	de mechanical			ve load nonconcurrent wit ng plate capable of withst			t 1 and 8	888 lb upl	ift at	12 co	ton	inites !
,		ed in accordance with the	e 2018 Internat	ional Residential Code se	ections R502.11.1 a	nd R80	2.10.2 a	and		NOV PI	E-200	1018807

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

Continued on page 2

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MiTek°

16023 Swingley Ridge Rd Chesterfield, MO 63017

SSIONAL

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June 12,2023

						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Summit/193 Highland Meado	ws AS NOTED FOR PLAN REVIEW
3603730	A9	HIP GIRDER	1	2		DEVELOPMENT SERVICES
		-		3	Job Reference (optional)	LEE'S SUMMIT, MISSOURI
Builders FirstSource (Valley	Center), Valley Center, K					. Thu Jan 214/1250 2023 Bags 2
		ID:ic	BMJaMgT1ga	suUyx9?R	hvzDEHb-RfC?PsB70Hq3NS	PqnL8v3ult XpGKV Cpdi74zUC?f

NOTES-

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 379 lb down and 89 lb up at 3-0-12, 323 lb down and 79 lb up at 5-0-12, 323 lb down and 79 lb up at 13-0-12, 323 lb down and 100 lb up at 11-0-12, 323 lb down and 100 lb up at 13-0-12, 323 lb down and 100 lb up at 11-0-12, 323 lb down and 100 lb up at 13-0-12, 323 lb down and 100 lb up at 11-0-12, 323 lb down and 99 lb up at 20-11-4, and 323 lb down and 99 lb up at 22-11-4, and 989 lb down and 281 lb up at 24-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

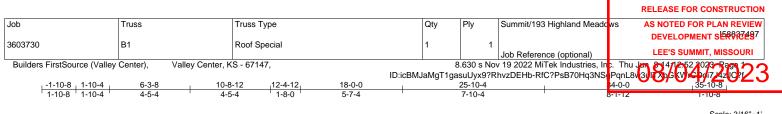
Vert: 1-2=-70, 2-5=-70, 5-9=-70, 14-18=-20, 13-21=-20, 11-24=-20

Concentrated Loads (lb)

Vert: 17=-323(F) 12=-989(F) 27=-379(F) 28=-323(F) 29=-323(F) 30=-323(F) 31=-323(F) 32=-323(F) 33=-323(F) 34=-323(F) 35=-323(F) 36=-323(F) 36=-3

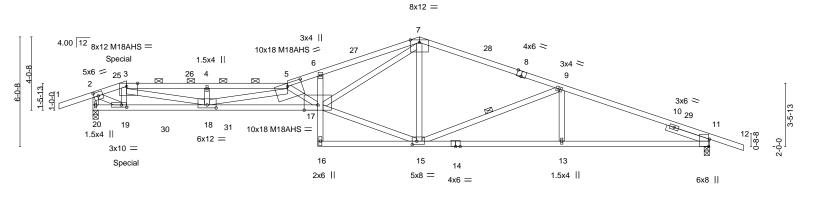
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Scale: 3/16"=1'

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	₁ 1-10-4	4 ₁ 6-3	3-8	10-8-12	12-4-12	18-0-0	1	25-10-4	I	34-0-0	1
	1-10-4		-	4-5-4	1-8-0	5-7-4	1	7-10-4		8-1-12	1
Plate Offsets ((X,Y)	[2:0-2-14,0-	2-8], [3:0-7-4	1,Edge], [5:0-9-	8,0-2-0], [8:0-3	3-0,Edge], [11	:0-4-13,Edge],	15:0-3-0,0-2-4], [18:0-6-0,0-2-0],	[19:0-3-8,0-1-8]	
LOADING (ps TCLL 25		Plate	CING- e Grip DOL	2-0-0 1.15		0.82	DEFL. Vert(LL)	in (loc) -0.80 17	l/defl L/d >511 240	PLATES MT20	GRIP 197/144
TCDL 10	-		ber DOL	1.15		0.89	Vert(CT)	-1.43 17-18	>284 180	M18AHS	142/136
	.0		Stress Incr	YES		0.72	Horz(CT)	0.26 11	n/a n/a		
BCDL 10	.0	Code	e IRC2018/T	PI2014	Matrix-	AS				Weight: 144 I	b FT = 20%
LUMBER- TOP CHORD BOT CHORD WEBS SLIDER REACTIONS. FORCES. (It TOP CHORD BOT CHORD WEBS	1-3: 2x- 2x4 SP 17-20: : 2x4 SP 7-17,5- Right 2 (size Max H- Max U- Max G 0) - Max. 2-3=- 7-9=- 18-19 3-19= 9-15=	4 SPF No.2 *Exc 2x4 SP 2400 F No.2 *Exc 18,3-18: 2x4 x4 SPF No.: a) 20=0-3- orz 20=-125 plift 20=-306 irav 20=163 Comp./Max 1960/352, 3 2485/508, 9 3=-259/1956 =-779/152, 5	cept* 0F 2.0E, 11 cept* 4 SPF 1650F 2 2-6-0 -8, 11=0-3-8 9(LC 45) 6(LC 8), 11=- 14(LC 1), 11=- . Ten All fc 3-4=-6205/10 5, 17-18=-133 -17=-2949/5	-288(LC 9)	r less except w 1091, 5-6=-65)/387 =-481/3036, 1)/2233, 7-17=-	24/1139, 6-7= 1-13=-481/303 770/4454, 7-1	36 5=-309/112,	2-0-0 RD Rigid	ural wood sheathin oc purlins (2-2-0 m ceiling directly appl at midpt		t end verticals, and
 Wind: ASCI MWFRS (en Interior(1) 5 vertical left Provide ade All plates an This truss in Provide me at joint 11. This truss is referenced This truss d sheetrock b Graphical p Hanger(s) 1-10-4 on 	E 7-16; V nvelope) i-3-1 to 11 and right equate dr ere MT20 p has been chanical s designe standard design reco e appliec uurlin repr or other top chorc d 22 lb d	fult=115mph gable end z 8-0-0, Exteri- ainage to pr plates unles designed fo connection ad in accorda ANSI/TPI 1 quires that a d directly to f resentation c connection d, and 25 lb lown and 31	n (3-second <u>c</u> cone and C-C ior(2R) 18-0- -C for membo- revent water as otherwise i r a 10.0 psf t (by others) o ance with the minimum of the bottom cl does not dep device(s) sh down and 32	Exterior(2E) - 0 to 21-4-13, Ir ers and forces of ponding. indicated. bottom chord liv f truss to bearin 2018 Internati 7/16" structura hord. ict the size or tt all be provided 2 lb up at 1-10-	nph; TCDL=6.(1-10-8 to 1-6-5 tterior(1) 21-4- & MWFRS for ve load noncor ng plate capab onal Residenti Il wood sheath he orientation sufficient to su 4, 22 lb down	i, Interior(1) 1- 13 to 35-10-8 reactions sho neurrent with a le of withstand al Code section ing be applied of the purlin a pport concentiand 31 lb up a	2psf; h=15ft; C 6-5 to 1-10-4, I zone; cantileve wn; Lumber DC ding 306 lb uplif ons R502.11.1 a I directly to the long the top and trated load(s) 6 at 1-11-0, and 1 of such connect	ixterior(2E) 1- r left and right L=1.60 plate <u>c</u> ads. at joint 20 an and R802.10.2 op chord and l/or bottom chu b down and 22 lb down and	10-4 to 5-3-1, exposed ; end irip DOL=1.60 d 288 lb uplift and 1/2" gypsum ord. 167 lb up at d 31 lb up at	A Contraction of the second se	F MISSOUTH OTT M. EVIER MELSON DOIO1018807
WARNIN Design vali a truss syst building de	NG - Verify o id for use or tem. Before	design paramete nly with MiTek® a use, the buildin ing indicated is	connectors. The connectors of	nis design is based st verify the applica ling of individual tru	only upon parame bility of design par ss web and/or cho	ters shown, and is ameters and prop ord members only	PAGE MII-7473 rev. s for an individual b perly incorporate thi Additional tempor for general guidanc	ilding component design into the or ary and permanen	not verall	MiTek	0 0

billing design. Dialong indicates is 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

						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Summit/193 Highland Meado	WS AS NOTED FOR PLAN REVIEW
3603730	B1	Roof Special	1	1		DEVELOPMENT SERVICES7
3603730	DI	Rooi Special	I	1	Job Reference (optional)	LEE'S SUMMIT, MISSOURI
Builders FirstSource	e (Valley Center), Valle	ey Center, KS - 67147,	ID:icBMJaMgT1g	8.630 s No asuUyx9?F	v 19 2022 MiTek Industries, In RhvzDEHb-RfC?PsB70Hq3NSg	2. Thu Jan 614/1252 003 Bags 2 3
NOTES-						
11) In the LOAD C	CASE(S) section, loads app	blied to the face of the truss are noted	as front (F) or back (B).		-	

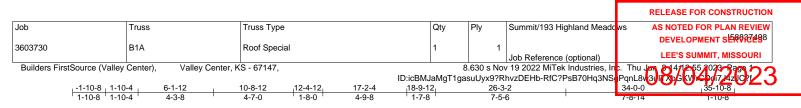
LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-2=-70, 2-3=-70, 3-5=-70, 5-7=-70, 7-12=-70, 17-20=-20, 16-21=-20

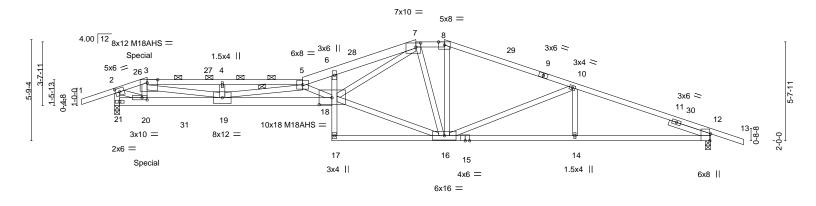
Concentrated Loads (lb) Vert: 3=33(F)

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





Scale = 1:65.7



F	1-10-4 6-1-12 10-8-12 1-10-4 4-3-8 4-7-0 2-0-2-14.0-2 91 (2-0-7-4 Edge) (7:0-2	1-8-0 4-9-	8 1-7-8	26-3-2 7-5-6		34-0-0 7-8-14
Plate Offsets (X,Y) LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	[2:0-2-14,0-2-8], [3:0-7-4,Edge], [7:0-3- SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.90 BC 0.86 WB 1.00 Matrix-AS	DEFL. ir Vert(LL) -0.76 Vert(CT) -1.36 Horz(CT) 0.24	n (loc) l/defl 5 17 >537 5 17 >299	L/d 240 180 n/a	PLATES GRIP MT20 197/144 M18AHS 142/136 Weight: 156 lb FT = 20%
3-5,9- BOT CHORD 2x4 SF 18-21: WEBS 2x4 SF 7-18: 2 SLIDER Right 2 REACTIONS. (siz Max H	PF No.2 *Except* 13: 2x4 SPF 1650F 1.5E, 5-7: 2x6 SPF 1 PF No.2 *Except* 2x6 SPF 2100F 1.8E, 12-15: 2x4 SPF · PF No.2 *Except* 2x4 SPF 1650F 1.5E 2x4 SPF No.2 2-6-0 (e) 12=0-3-8, 21=0-3-8 10rz 21=-125(LC 13) Jplift 12=-293(LC 9), 21=-311(LC 8)		BRACING- TOP CHORD BOT CHORD WEBS	Structural wood 2-0-0 oc purlins Rigid ceiling dir 1 Row at midpt	(2-2-0 max.): actly applied.	ectly applied, except end verticals, and 3-5, 7-8. 19
FORCES. (lb) - Max. TOP CHORD 2-3= 7-8= BOT CHORD 19-2 WEBS 3-20 2-20:	Grav 12=1652(LC 1), 21=1634(LC 1) Comp./Max. Ten All forces 250 (lb) o -2275/418, 3-4=-6176/1118, 4-5=-6174/ -2391/539, 8-10=-2592/540, 10-12=-327 0=-292/2232, 18-19=-1608/9407, 14-16 =-541/110, 5-18=-3411/650, 8-16=-43/4 =-434/2323, 4-19=-404/130, 3-19=-727/ 8=-367/2559, 7-18=-818/4563	1116, 5-6=-6932/1266, 6- 7/606, 2-21=-1753/409 =-492/3040, 12-14=-492/3 88, 10-16=-787/223, 10-14	7=-6721/1294, 040 4=0/258,			
 2) Wind: ASCE 7-16; MWFRS (envelope) Interior(1) 5-3-1 to 1 cantilever left and ri Lumber DOL=1.60 (3) Provide adequate d 4) All plates are MT20 5) The Fabrication Tole 6) This truss has been 7) Bearing at joint(s) 2 capacity of bearing 8) Provide mechanical at joint 21. 9) This truss is design referenced standard 10) This truss design sheetrock be appli 	connection (by others) of truss to bearined an accordance with the 2018 International ANSI/TPI 1. equires that a minimum of 7/16" structured directly to the bottom chord.	hph; TCDL=6.0psf; BCDL= 1-10-8 to 1-6-5, Interior(1) xterior(2R) 18-9-12 to 22- exposed;C-C for members ve load nonconcurrent with ANSI/TPI 1 angle to grain ng plate capable of withsta onal Residential Code sec ral wood sheathing be app	1-6-5 to 1-10-4, Exterio 2-9, Interior(1) 22-2-9 to 5 and forces & MWFRS f 6 any other live loads. 6 formula. Building desig anding 293 lb uplift at join ctions R502.11.1 and R8 blied directly to the top cl	(2E) 1-10-4 to 5-3 35-10-8 zone; or reactions show ner should verify at 12 and 311 lb u 02.10.2 and nord and 1/2" gyp	n; plift	NUMBER PE-2001018807 June 12,2023
WARNING - Verify Design valid for use c a truss system. Befor building design. Brac is always required for fabrication, storage, c	presentation does not depict the size or design parameters and READ NOTES ON THIS AN only with MITek® connectors. This design is based e use, the building designer must verify the applica ing indicated is to prevent buckling of individual tru stability and to prevent collapse with possible pers elivery, rection and bracing of trusses and truss s available from Truss Plate Institute, 2670 Crain Hig	D INCLUDED MITEK REFERENC only upon parameters shown, an billy of design parameters and p ss web and/or chord members or onal injury and property damage ystems, see <u>ANS/ITPI1</u>	E PAGE MII-7473 rev. 5/19/202 d is for an individual building or toperly incorporate this design nly. Additional temporary and . For general guidance regard Quality Criteria, DSB-89 and Quality Criteria, DSB-89 and	0 BEFORE USE. omponent, not into the overall permanent bracing ng the	ponent	16023 Swingley Ridge Rd Chesterfield, MO 63017

						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Summit/193 Highland Meado	WS AS NOTED FOR PLAN REVIEW
						DEVELOPMENT SERVICES
3603730	B1A	Roof Special	1	1		LEE'S SUMMIT. MISSOURI
					Job Reference (optional)	
Builders FirstSource	(Valley Center), Valley Center), Valley Center	alley Center, KS - 67147,	8	3.630 s No	v 19 2022 MiTek Industries, In	. Thu Jun 214/12:55 2023 Rage 2
		•	ID:icBMJaMgT1ga	suUvx9?R	hvzDEHb-RfC?PsB70Ha3NS	PqnL8v3uTXbGKV CPdi74zIC?f
NOTES-			·_ ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·			

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 64 lb down and 167 lb up at 1-10-4 on top chord, and 25 lb down and 32 lb up at 1-10-4, 22 lb down and 31 lb up at 1-11-0, and 22 lb down and 31 lb up at 3-11-0, and 22 lb down and 31 lb up at 5-11-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.13) 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

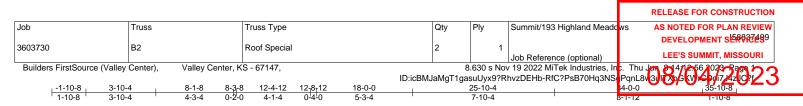
Uniform Loads (plf)

Vert: 1-2=-70, 2-3=-70, 3-5=-70, 5-7=-70, 7-8=-70, 8-13=-70, 18-21=-20, 17-22=-20

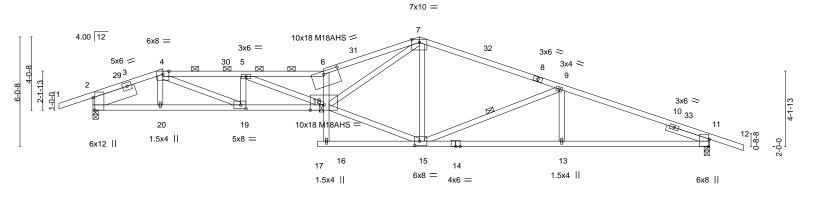
Concentrated Loads (lb) Vert: 3=33(B)

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Scale: 3/16"=1'

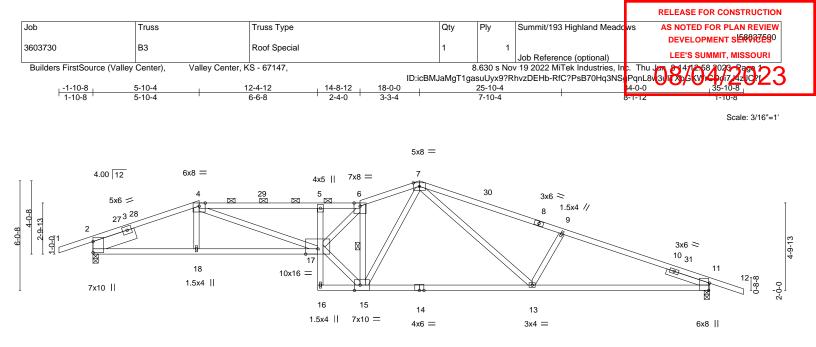


		-4-12 18-0-0 -1-4 5-7-4		<u>25-10-4</u> 7-10-4		<u>34-0-0</u> 8-1-12	
	[2:0-8-5,Edge], [6:0-9-12,0-2-0], [11:0-4			1 10 4		0112	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.90 BC 0.96 WB 0.77 Matrix-AS	DEFL. ir Vert(LL) -0.65 Vert(CT) -1.16 Horz(CT) 0.23	5 17 >632 5 17 >351	L/d 240 180 n/a	PLATES MT20 M18AHS Weight: 145 lb	GRIP 197/144 142/136 FT = 20%
BOT CHORD 2x4 SF 14-17: WEBS 2x4 SF 7-18: 2	PF 1650F 1.5E PF 1650F 1.5E *Except* 2x4 SPF No.2 PF No.2 *Except* 2x4 SPF 1650F 1.5E 8 SP 2400F 2.0E 2-6-0, Right 2x4 SPF	No.2 2-6-0	BRACING- TOP CHORD BOT CHORD WEBS	Structural wood 2-0-0 oc purlins Rigid ceiling dire 1 Row at midpt	(2-2-14 max.): ctly applied.	ectly applied, except 4-6. 16, 9-15	
Max H Max U	e) 2=0-3-8, 11=0-3-8 lorz 2=-142(LC 13) Jplift 2=-297(LC 8), 11=-282(LC 9) Grav 2=1665(LC 1), 11=1664(LC 1)						
TOP CHORD 2-4=- 9-11: BOT CHORD 2-20: WEBS 6-18:	Comp./Max. Ten All forces 250 (lb) o -2763/501, 4-5=-5191/936, 5-6=-6300/1 =-3303/603 =-326/2531, 19-20=-330/2540, 18-19=-7 =-2298/472, 7-15=-344/113, 9-15=-894/ =-786/4713, 5-19=-1025/241, 4-19=-504	124, 6-7=-6559/1205, 7-9 /87/5188, 13-15=-487/306 240, 9-13=0/275, 15-18=-	=-2529/510, i3, 11-13=-487/3063				
 2) Wind: ASCE 7-16; MWFRS (envelope) Interior(1) 7-3-1 to 1 vertical left and right 3) Provide adequate d 4) All plates are MT20 5) This truss has been 6) Provide mechanical joint 11. 7) This truss is designer referenced standard 8) This truss design re sheetrock be applie 	e loads have been considered for this de Vult=115mph (3-second gust) Vasd=91n 9 gable end zone and C-C Exterior(2E) - 18-0-0, Exterior(2R) 18-0-0 to 21-4-13, Ir t exposed;C-C for members and forces rainage to prevent water ponding. plates unless otherwise indicated. designed for a 10.0 psf bottom chord lin connection (by others) of truss to bearin ed in accordance with the 2018 Internati d ANSI/TPI 1. quires that a minimum of 7/16" structura d directly to the bottom chord. resentation does not depict the size or t	hph; TCDL=6.0psf; BCDL= 1-10-8 to 1-6-5, Interior(1) tterior(1) 21-4-13 to 35-10 & MWFRS for reactions sl we load nonconcurrent with ng plate capable of withsta onal Residential Code sec al wood sheathing be appli	1-6-5 to 3-10-4, Exterio I-8 zone; cantilever left a hown; Lumber DOL=1.60 h any other live loads. anding 297 lb uplift at join ctions R502.11.1 and R8 red directly to the top cho	r(2R) 3-10-4 to 7-3 nd right exposed ; 0 plate grip DOL=1 nt 2 and 282 lb up 102.10.2 and prd and 1/2" gypsu	end .60 ift at	Scott, NUN	MBER 1018807



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L	5-10-4	12-4-12	14-8-12	24-2-10	1		4-0-0	
	5-10-4	6-6-8	2-4-0	9-5-14	I	9	-9-6	1
Plate Offsets (X,Y)	[2:Edge,0-0-0], [11:0-4-13,E	Edge], [15:0-3-12,E	dge]					
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TPI2	1.15 1.15 YES	CSI. TC 0.87 BC 0.84 WB 0.89 Matrix-AS	Vert(LL) -0.41	13-15 >495	L/d 240 180 n/a	PLATES MT20 Weight: 152 lb	GRIP 197/144 FT = 20%
6-7: 2 BOT CHORD 2x4 S 2-17: WEBS 2x4 S	TOP CHORD 2x4 SP 2400F 2.0E *Except* TOP CHORD Structural wood sheathing directly applied, except 6-7: 2x4 SPF No.2, 7-8,8-12: 2x4 SPF 1650F 1.5E 2-0-0 oc purlins (2-7-15 max.): 4-6. BOT CHORD 2x4 SPF No.2 *Except* BOT CHORD 2-17: 2x4 SP 2400F 2.0E, 11-14: 2x4 SPF 1650F 1.5E BOT CHORD Rigid ceiling directly applied. WEBS 2x4 SPF No.2 6-15							
Max Max	ze) 2=0-3-8, 11=0-3-8 Horz 2=-142(LC 13) Uplift 2=-299(LC 8), 11=-281 Grav 2=1661(LC 1), 11=166	· /						
TOP CHORD 2-4=	. Comp./Max. Ten All force 2987/552, 4-5=-4870/919, { I=-3299/625	()		38/620,				
	8=-367/2755, 17-18=-371/275 7=-410/2264, 15-17=-507/364	, ,	,					

NOTES-

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

7-13=-160/864, 9-13=-479/219

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) gable end zone and C-C Exterior(2E) -1-10-8 to 1-6-5, Interior(1) 1-6-5 to 5-10-4, Exterior(2R) 5-10-4 to 9-3-1, Interior(1) 9-3-1 to 18-0-0, Exterior(2R) 18-0-0 to 21-4-13, Interior(1) 21-4-13 to 35-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

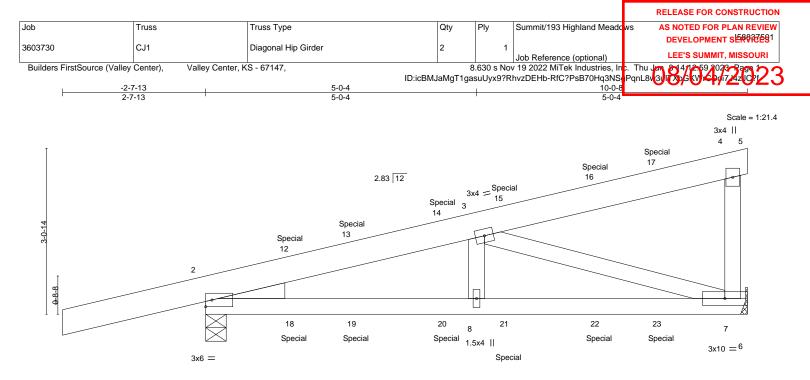
3) Provide adequate drainage to prevent water ponding.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 299 lb uplift at joint 2 and 281 lb uplift at joint 11.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) 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.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





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		<u>5-0-4</u> 5-0-4	<u> </u>
LOADING (psf)	SPACING- 2-0-0	CSI. DEFL.	in (loc) I/defl L/d PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.33 Vert(LL) -0	03 7-8 >999 240 MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.38 Vert(CT) -0	06 7-8 >999 180
BCLL 0.0	Rep Stress Incr NO	WB 0.30 Horz(CT) 0	01 7 n/a n/a
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS	Weight: 46 lb FT = 20%

LUMBER-

TOP CHORD 2x6 SPF No 2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2 WEDGE

BRACING-TOP CHORD

BOT CHORD

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

Left: 2x4 SP No.3

REACTIONS. (size) 2=0-4-9, 7=Mechanical Max Horz 2=97(LC 27) Max Uplift 2=-191(LC 4), 7=-103(LC 8) Max Grav 2=617(LC 1), 7=575(LC 1)

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

TOP CHORD 2-3=-797/136 BOT CHORD 2-8=-154/731 7-8=-154/731 WEBS 3-7=-704/168

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

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

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

- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 191 lb uplift at joint 2 and 103 lb uplift at joint 7.
- 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) 83 lb down and 173 lb up at 1-7-11, 12 lb down and 15 lb up at 2-9-8, 15 lb down and 32 lb up at 4-5-10, 35 lb down and 52 lb up at 5-7-7, and 52 lb down and 76 lb up at 7-3-10, and 76 lb down and 87 lb up at 8-5-6 on top chord, and 11 lb down and 64 lb up at 1-7-11, 10 lb down and 6 lb up at 2-9-8, 24 lb down and 7 lb up at 4-5-10, 22 lb down at 5-7-7, and 33 lb down at 7-3-10, and 45 lb down at 8-5-6 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

7) 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-70, 4-5=-20, 6-9=-20

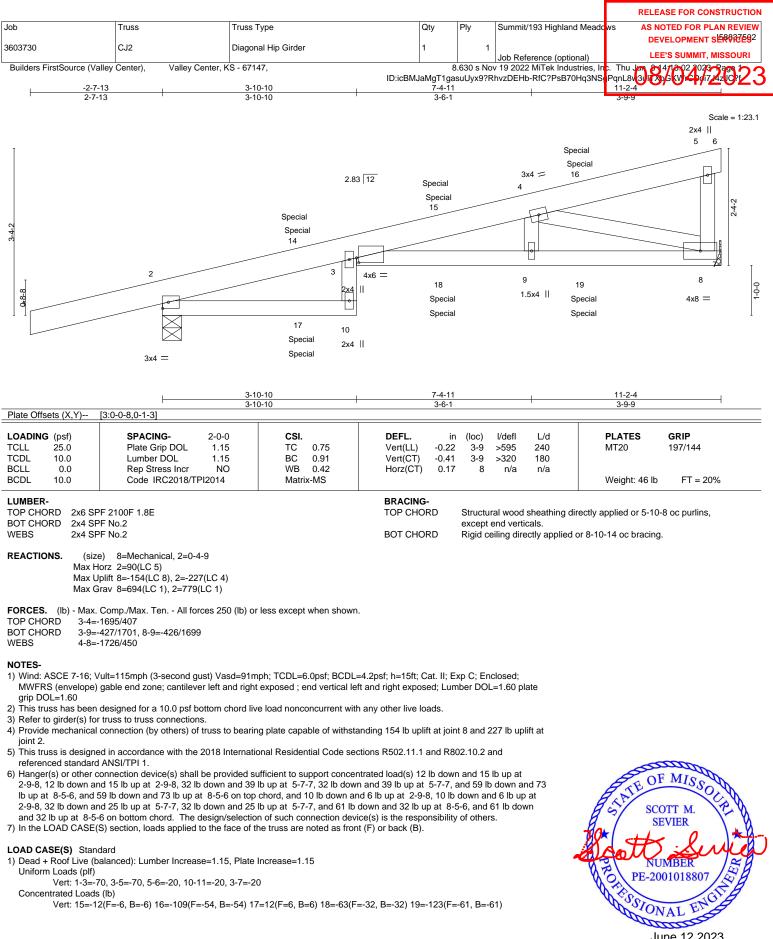
Concentrated Loads (lb)

Vert: 12=49(F) 15=-6(B) 16=-45(F) 17=-76(B) 18=32(F) 19=6(B) 20=7(F) 21=-12(B) 22=-29(F) 23=-41(B)

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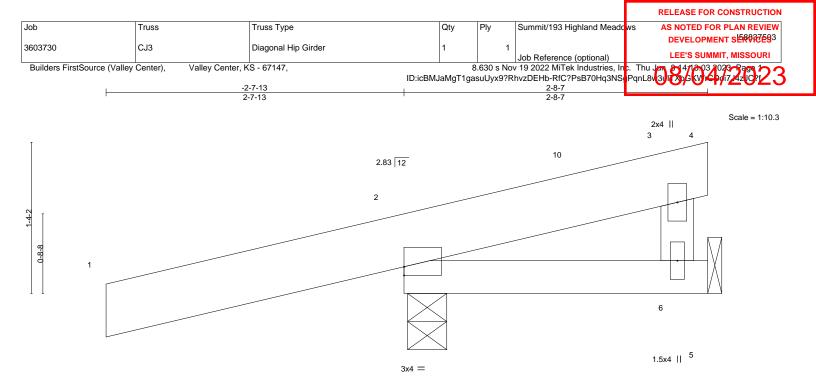




June 12,2023



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DEFL

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

in (loc)

6-9

6-9

2

0.00

0.00

-0.00

REACTIONS. (size) 6=Mechanical, 2=0-4-3

2x4 SPF No.2

2x4 SPF No.2

Max Horz 2=43(LC 11) Max Uplift 6=-1(LC 9), 2=-167(LC 8)

[2:0-0-0,0-0-15]

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

Max Grav 6=61(LC 3), 2=396(LC 1)

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

NOTES-

Plate Offsets (X,Y)--

25.0

10.0

10.0

TOP CHORD 2x6 SPF No.2

0.0

LOADING (psf)

TCLL

TCDL

BCLL

BCDL

WEBS

LUMBER-

BOT CHORD

 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) gable end zone and C-C Corner(3) -2-7-13 to 1-7-1, Exterior(2R) 1-7-1 to 2-8-7 zone; cantilever left and right

exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

CSI.

тс

BC

WB

Matrix-MP

0.25

0.08

0.00

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

2-0-0

1.15

1.15

NO

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

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 6 and 167 lb uplift at joint 2.

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.



EFORE USE. onent, not the overall anent bracing he SI Building Component SI Building Component

2-8-7

L/d

240

180

n/a

l/defl

>999

>999

except end verticals.

n/a

PLATES

Weight: 14 lb

MT20

Structural wood sheathing directly applied or 2-8-7 oc purlins,

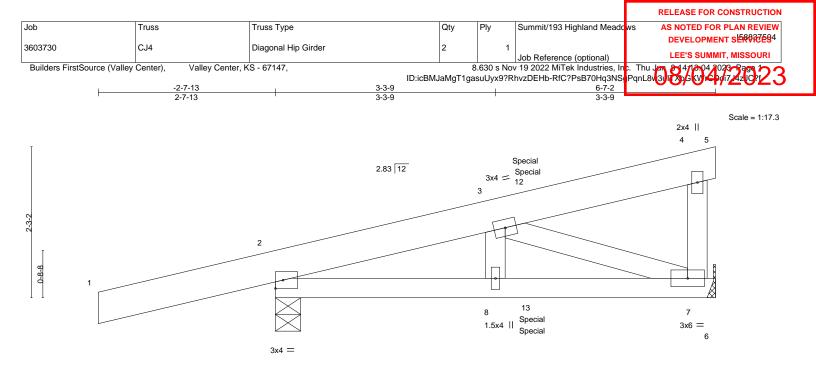
Rigid ceiling directly applied or 10-0-0 oc bracing.

GRIP

197/144

FT = 20%





			<u> </u>
LOADING (psf)	SPACING- 2-0-0	CSI. DEFL.	in (loc) I/defi L/d PLATES GRIP
TCLL 25.0 TCDL 10.0	Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.25 Vert(LL) -0.1 BC 0.18 Vert(CT) -0.1	
BCLL 0.0	Rep Stress Incr NO	WB 0.06 Horz(CT) 0.1	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP	Weight: 31 lb FT = 20%

LUMBER-

TOP CHORD2x6 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x4 SPF No.2

BRACING-TOP CHORD BOT CHORD

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

REACTIONS. (size) 2=0-4-9, 7=Mechanical Max Horz 2=78(LC 7) Max Uplift 2=-164(LC 4), 7=-49(LC 8) Max Grav 2=508(LC 1), 7=256(LC 1)

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

TOP CHORD 2-3=-311/36

BOT CHORD 2-8=-36/261, 7-8=-36/261 WEBS 3-7=-278/55

WEBS

 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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

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

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

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 164 lb uplift at joint 2 and 49 lb uplift at joint 7.

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) 17 lb down and 30 lb up at 3-10-4, and 17 lb down and 30 lb up at 3-10-4 on top chord, and 11 lb down and 1 lb up at 3-10-4, and 11 lb down and 1 lb up at 3-10-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

7) 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

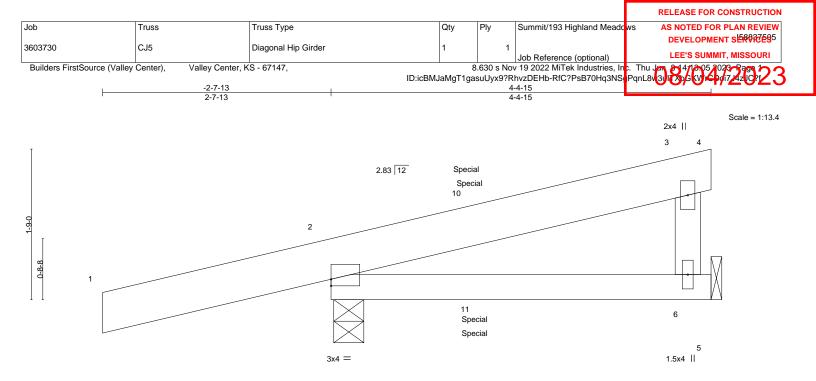
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-4=-70, 4-5=-20, 6-9=-20 Concentrated Loads (lb) Vert: 13=2(F=1, B=1)





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					4-4-15			
					4-4-9			
Plate Offsets (X,Y)	[2:0-0-0,0-0-15]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) l/defl	L/d	PLATES GRIP	
TCLL 25.0	Plate Grip DOL	1.15	TC 0.25	Vert(LL)	0.01 6-9 >999	240	MT20 197/144	

TCDL BCLL BCDL	10.0 0.0 10.0	Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	BC 0.11 WB 0.00 Matrix-MP	Vert(CT) 0.0 Horz(CT) -0.00		Weight: 19 lb FT = 20%
LUMBEN TOP CH BOT CH WEBS	ORD 2x6 SI ORD 2x4 SI	PF No.2 PF No.2 PF No.2		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing d except end verticals. Rigid ceiling directly applied	lirectly applied or 4-4-15 oc purlins, or 10-0-0 oc bracing.

REACTIONS. (size) 6=Mechanical, 2=0-4-3

Max Horz 2=58(LC 7) Max Uplift 6=-24(LC 8), 2=-158(LC 4)

Max Grav 6=117(LC 37), 2=388(LC 1)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 6 and 158 lb uplift at joint 2.
- 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) 81 lb down and 170 lb up at 1-8-1, and 14 lb down and 27 lb up at 1-8-1 on top chord, and 11 lb down and 63 lb up at 1-8-1, and 8 lb down and 0 lb up at 1-8-1 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf) Vert: 1-3=-70, 3-4=-20, 5-7=-20

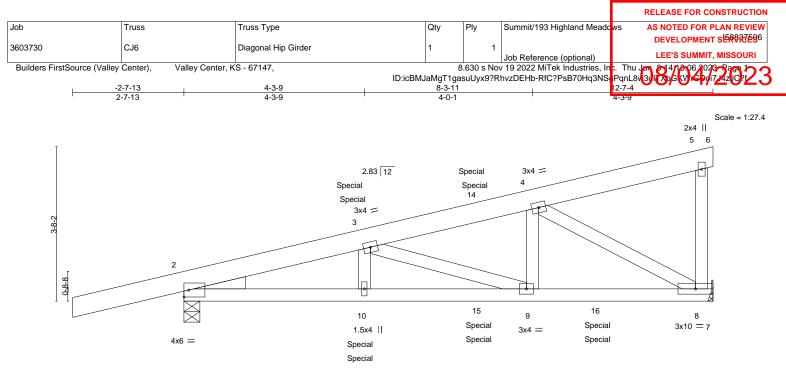
Concentrated Loads (lb) Vert: 10=48(B) 11=24(F=-8, B=32)



June 12,2023

16023 Swingley Ridge Rd Chesterfield, MO 63017

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		4-3-9 4-3-9	8-3-11 4-0-1		<u>12-7-4</u> 4-3-9
LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.49	()	/defl L/d	PLATES GRIP MT20 197/144
TCDL 10.0 BCLL 0.0	Lumber DOL 1.15 Rep Stress Incr NO	BC 0.88 WB 0.52	Vert(CT) -0.12 8-9 > Horz(CT) 0.03 8	999 180 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS			Weight: 60 lb FT = 20%
LUMBER-			BRACING-		

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SPF No 2 BOT CHORD 2x4 SPF 1650F 1.5E WEBS 2x4 SPF No.2 WEDGE Left: 2x4 SP No.3

REACTIONS. (size) 2=0-4-9, 8=Mechanical Max Horz 2=114(LC 7)

Max Uplift 2=-232(LC 4), 8=-189(LC 8) Max Grav 2=923(LC 1), 8=1042(LC 1)

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

TOP CHORD 2-3=-1501/243, 3-4=-1348/243

2-10=-260/1397, 9-10=-260/1397, 8-9=-236/1296 BOT CHORD

WEBS 4-9=-71/579, 4-8=-1429/281

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

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

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

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 232 lb uplift at joint 2 and 189 lb uplift at ioint 8.

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) 21 lb down and 35 lb up at 4-2-8, 21 lb down and 35 lb up at 4-2-8, and 49 lb down and 72 lb up at 7-0-7, and 49 lb down and 72 lb up at 7-0-7 on top chord, and 12 lb down at 4-2-8, 12 lb down at 4-2-8, 32 lb down at 7-0-7, 32 lb down at 7-0-7, and 263 lb down and 86 lb up at 9-10-6, and 263 lb down and 86 lb up at 9-10-6 on bottom chord. The design/selection of such connection device(s) is the responsibility of others

7) 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-5=-70, 5-6=-20, 7-11=-20

Concentrated Loads (lb) Vert: 10=-1(F=-1, B=-1) 14=-78(F=-39, B=-39) 15=-54(F=-27, B=-27) 16=-526(F=-263, B=-263)

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Structural wood sheathing directly applied or 5-4-8 oc purlins,

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

except end verticals.



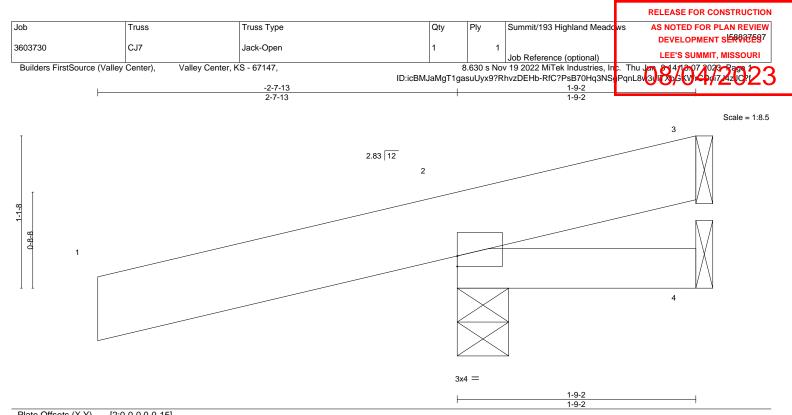


Plate Olise	IS (A, T)	[2:0-0-0,0-0-15]										
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	тс	0.22	Vert(LL)	0.00	7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	0.00	7	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-MP						Weight: 10 lb	FT = 20%

LUMBER-

TOP CHORD2x6 SPF No.2BOT CHORD2x4 SPF No.2

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 1-9-2 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-4-9, 4=Mechanical Max Horz 2=46(LC 8) Max Uplift 3=-50(LC 1), 2=-181(LC 8), 4=-12(LC 1) Max Grav 3=36(LC 8), 2=405(LC 1), 4=19(LC 3)

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

NOTES-

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

- exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

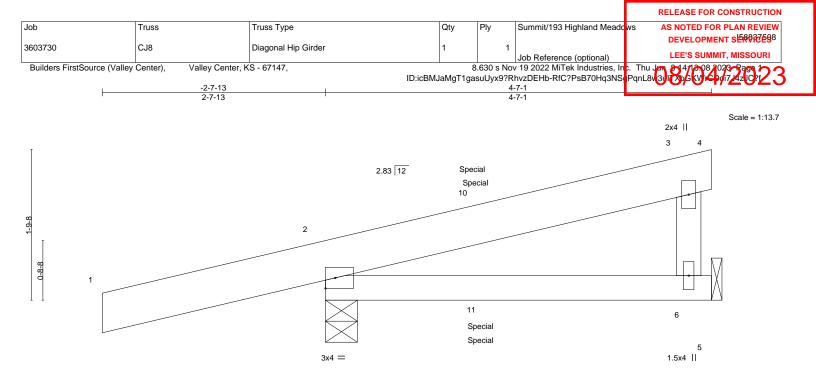
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 3, 181 lb uplift at joint 2 and 12 lb uplift at joint 4.

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.



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			ł					4-7-1 4-7-1			
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	тс	0.31	Vert(LL)	0.02	`6-9	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	0.03	6-9	>999	180		
BCLL 0.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.01	2	n/a	n/a		
BCDL 10.0	Code IRC2018/TI	PI2014	Matri	x-MP						Weight: 20 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SPF No 2 2x4 SPF No.2 BOT CHORD WEBS 2x4 SPF No.2 BRACING-TOP CHORD

Structural wood sheathing directly applied or 4-7-1 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. 6=Mechanical, 2=0-4-9 (size) Max Horz 2=60(LC 7) Max Uplift 6=-31(LC 21), 2=-151(LC 4) Max Grav 6=119(LC 37), 2=354(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

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

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

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 6 and 151 lb uplift at joint 2.

- 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) 73 lb down and 152 lb up at 1-10-3, and 73 lb down and 152 lb up at 1-10-3 on top chord, and 11 lb down and 58 lb up at 1-10-3, and 11 lb down and 58 lb up at 1-10-3 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-70, 3-4=-20, 5-7=-20 Concentrated Loads (lb)

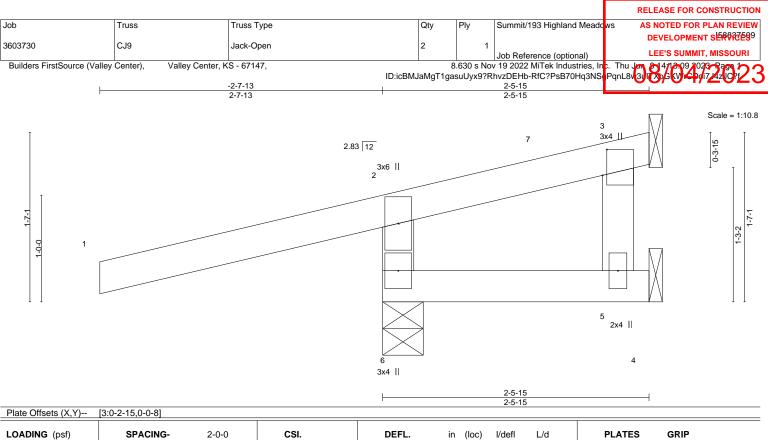
Vert: 10=86(F=43, B=43) 11=59(F=30, B=30)



June 12,2023



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LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.55	Vert(LL) 0.00 5-6 >999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.18	Vert(CT) 0.00 5-6 >999 180	
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.02 3 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP		Weight: 11 lb FT = 20%
LUMBER-			BRACING-	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 2-5-15 oc purlins,
BOT CHORD	2x4 SPF No.2		except end verticals.
WEBS	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
			· · · · ·

REACTIONS. (size) 6=0-4-9, 5=Mechanical, 3=Mechanical

Max Horz 6=37(LC 11) Max Uplift 6=-177(LC 8), 5=-17(LC 25), 3=-68(LC 25) Max Grav 6=421(LC 1), 5=40(LC 3), 3=18(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-6=-361/340

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) gable end zone and C-C Corner(3) -2-7-13 to 1-7-1, Exterior(2R) 1-7-1 to 2-2-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 177 lb uplift at joint 6, 17 lb uplift at joint 5 and 68 lb uplift at joint 3.

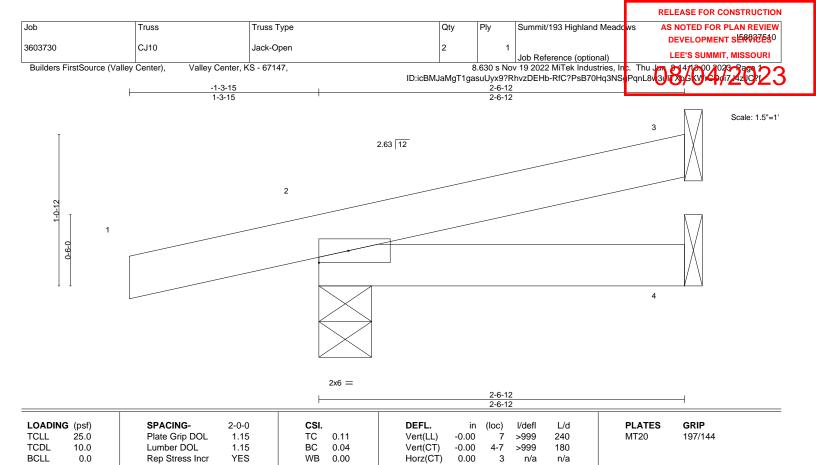
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

7) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



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BCDL

LUMBER-TOP CHORD

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

10.0

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 2-6-12 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

Weight: 8 lb

FT = 20%

REACTIONS. 3=Mechanical, 2=0-4-7, 4=Mechanical (size)

Max Horz 2=34(LC 8)

Max Uplift 3=-23(LC 12), 2=-78(LC 8) Max Grav 3=64(LC 1), 2=230(LC 1), 4=42(LC 3)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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) gable end zone and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right

Matrix-MP

- exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

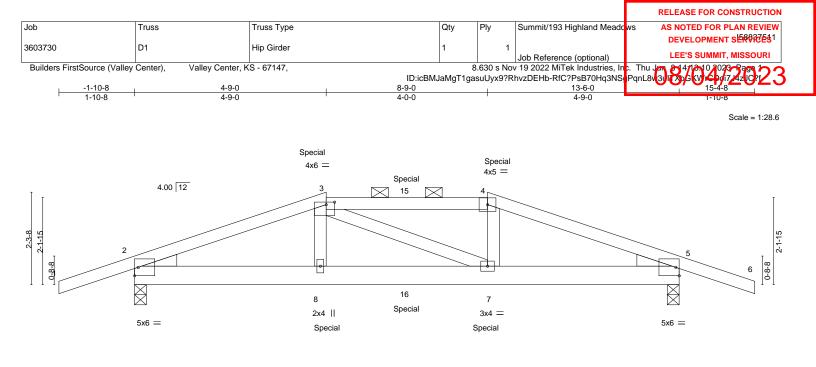
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 3 and 78 lb uplift at joint 2.

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.



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8-9-0

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13-6-0

	4-9-0		8-9-0		13-0-0	-
Plate Offsets (X,Y)	4-9-0		4-0-0		4-9-0	
	[3.0-2-8,0-0-12]		1			
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNO	CSI. TC 0.55 BC 0.78 WB 0.07	DEFL. in Vert(LL) -0.08 Vert(CT) -0.14 Horz(CT) 0.03	7-8 >999 180) MT20	GRIP 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS			Weight: 56 lt	FT = 20%
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x6 SP WEBS 2x4 SP WEDGE Left: 2x4 SP No.3 , Rig	PF No.2 PF No.2	1	BRACING- TOP CHORD BOT CHORD	except 2-0-0 oc purlins (3-9-5	hing directly applied or 3-8 5 max.): 3-4. pplied or 10-0-0 oc bracing	
Max H Max U	e) 2=0-3-8, 5=0-3-8 lorz 2=-36(LC 26) plift 2=-260(LC 4), 5=-260(LC 5) rav 2=1108(LC 1), 5=1108(LC 1)					
TOP CHORD 2-3=- BOT CHORD 2-8=-	Comp./Max. Ten All forces 250 (lb) o 1988/371, 3-4=-1810/369, 4-5=-1980/3 319/1836, 7-8=-320/1817, 5-7=-305/18 0/300, 4-7=0/297		1.			
 2) Wind: ASCE 7-16; V MWFRS (envelope) grip DOL=1.60 3) Provide adequate dr 4) This truss has been 5) Provide mechanical joint 5. 6) This truss is designer referenced standard 7) Graphical purlin reprise 8) Hanger(s) or other c 4-9-0, and 62 lb dow 4-9-0, and 40 lb dow device(s) is the respination 	resentation does not depict the size or t connection device(s) shall be provided s vn and 54 lb up at 6-9-0, and 85 lb dow vn at 6-9-0, and 260 lb down and 77 lb	nph; TCDL=6.0psf; BCDL tt exposed ; end vertical le ve load nonconcurrent wit ng plate capable of withst ional Residential Code se the orientation of the purlli sufficient to support conce <i>in</i> and 62 lb up at 8-9-0 o up at 8-8-4 on bottom ch	Aft and right exposed; Lun h any other live loads. anding 260 lb uplift at joir ctions R502.11.1 and R8 h along the top and/or bot ntrated load(s) 85 lb dow n top chord, and 260 lb d ord. The design/selection	nber DOL=1.60 plate nt 2 and 260 lb uplift at 02.10.2 and ttom chord. n and 62 lb up at lown and 77 lb up at	Boott	F MISSOL
Uniform Loads (plf)	dard alanced): Lumber Increase=1.15, Plate 70, 3-4=-70, 4-6=-70, 9-12=-20	Increase=1.15			PE-2	001018807

4-9-0

Continued on page 2

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



June 12,2023

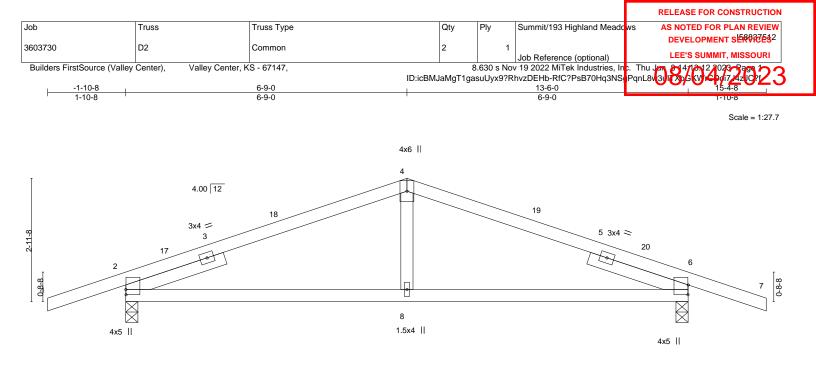
						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Summit/193 Highland Meado	ws AS NOTED FOR PLAN REVIEW
						DEVELOPMENT SERVICES
3603730	D1	Hip Girder	1	1		
					Job Reference (optional)	LEE'S SUMMIT, MISSOURI
Builders FirstSource (Valle	/ Center), Valley Center, I			3.630 s Nov	/ 19 2022 MiTek Industries, In	. Thu Jan 2014/10112023- Page 2
		ID:icBM	JaMgT1ga	asuUyx9?R	hvzDEHb-RfC?PsB70Hq3NS	

LOAD CASE(S) Standard

Concentrated Loads (lb) Vert: 3=-62(F) 4=-62(F) 8=-260(F) 7=-260(F) 15=-62(F) 16=-33(F)

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	6-9-0			<u>13-6-0</u> 6-9-0	
Plate Offsets (X,Y)	[2:0-1-8,0-0-1], [6:0-2-13,0-0-1]			0-9-0	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.37 BC 0.34 WB 0.06 Matrix-AS	DEFL. ir Vert(LL) -0.05 Vert(CT) -0.08 Horz(CT) 0.02	8-15 >999 240 8-15 >999 180	PLATES GRIP MT20 197/144 Weight: 45 lb FT = 20%
BOT CHORD 2x4 S WEBS 2x4 S SLIDER Left 2 REACTIONS. (si Max Max	SPF No.2 SPF No.2 SPF No.2 X4 SPF No.2 2-6-0, Right 2x4 SPF No.2 2 ze) 2=0-3-8, 6=0-3-8 Horz 2=-46(LC 13) Uplift 2=-160(LC 8), 6=-160(LC 9) Grav 2=739(LC 1), 6=739(LC 1)	-6-0	BRACING- TOP CHORD BOT CHORD	Structural wood sheathing di Rigid ceiling directly applied.	
TOP CHORD 2-4 BOT CHORD 2-8	 Comp./Max. Ten All forces 250 (lb) or =-862/264, 4-6=-862/264 =-148/813, 6-8=-148/813 =0/264 	less except when shown.			
NOTES- 1) Unbalanced roof liv	ve loads have been considered for this de	sign.			

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) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 6-9-0, Exterior(2R) 6-9-0 to 9-9-0, Interior(1) 9-9-0 to 15-4-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 160 lb uplift at joint 2 and 160 lb uplift at joint 6.

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.

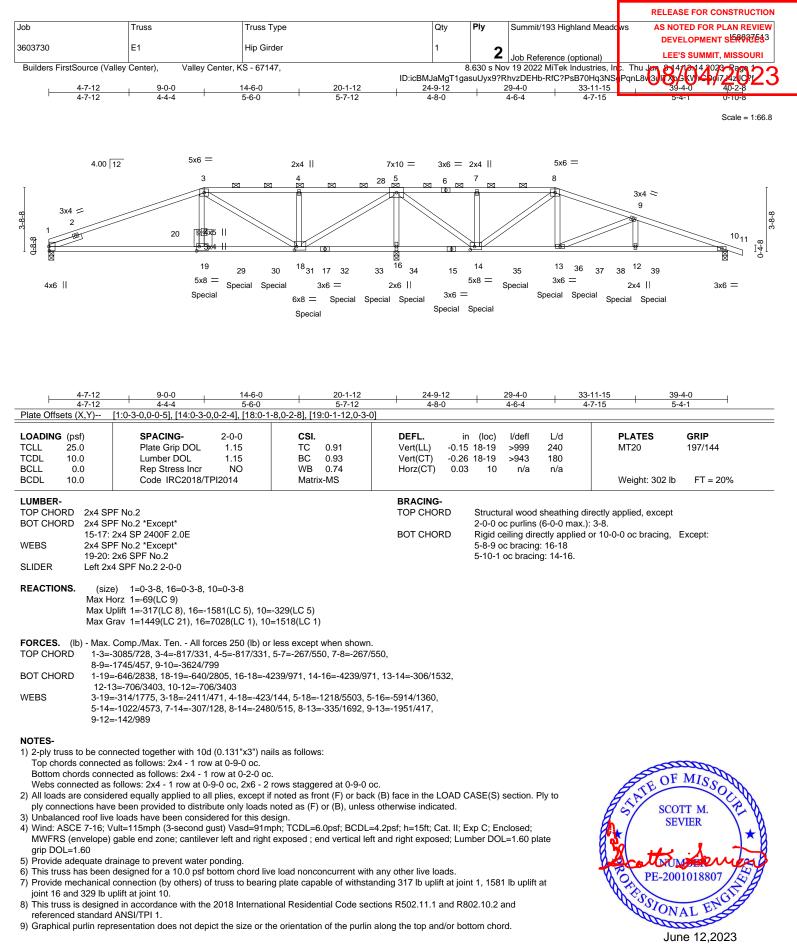
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



June 12,2023



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Continued on page 2

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

16023 Swingley Ridge Rd Chesterfield, MO 63017

						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Summit/193 Highland Meado	ws AS NOTED FOR PLAN REVIEW
						DEVELOPMENT SERVICES
3603730	E1	Hip Girder	1	2	Job Reference (optional)	LEE'S SUMMIT, MISSOURI
Builders FirstSource (Valle	ey Center), Valley Center, I	ŚS - 67147,	8 IDvieBM IeMeT1ee	.630 s Nov	/ 19 2022 MiTek Industries, In	c. Thu Jon 614/16:14/023-Rage 2 PgnL8v3JICXpGKV/400/17/4zIC2t23
			ID.ICDIVIJAIVIGT I ga	Subyx9?R		

NOTES-

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1383 lb down and 328 lb up at 9-0-0, 370 lb down and 111 lb up at 11-0-12, 370 lb down and 111 lb up at 13-0-12, 370 lb down and 111 lb up at 15-0-12, 370 lb down and 111 lb up at 17-0-12, 370 lb down and 111 lb up at 19-0-12, 370 lb down and 111 lb up at 19-0-12, 370 lb down and 111 lb up at 23-0-12, 370 lb down and 111 lb up at 25-0-12, 370 lb down and 111 lb up at 23-0-12, 370 lb down and 111 lb up at 25-0-12, 370 lb down and 111 lb up at 27-0-12, 370 lb down and 111 lb up at 29-0-12, 370 lb down and 111 lb up at 31-0-12, and 365 lb down and 89 lb up at 33-0-12, and 552 lb down and 122 lb up at 35-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

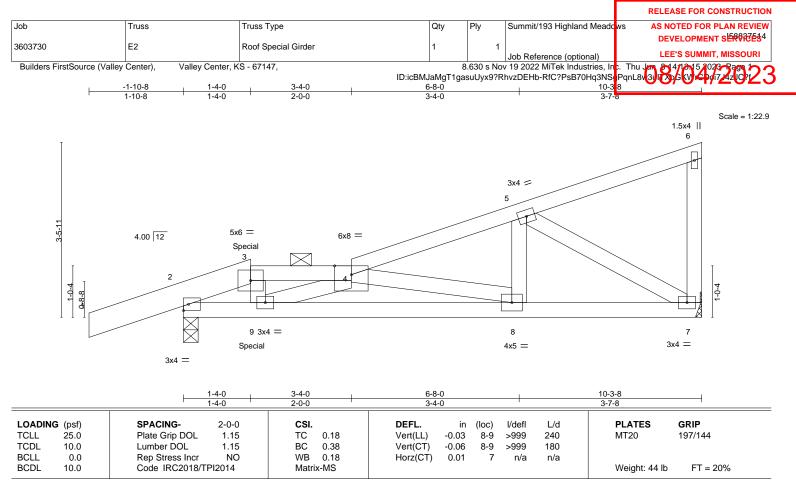
Uniform Loads (plf)

Vert: 1-3=-70, 3-8=-70, 8-11=-70, 21-25=-20 Concentrated Loads (lb)

Vert: 19=-1383(F) 14=-370(F) 15=-370(F) 29=-370(F) 30=-370(F) 31=-370(F) 32=-370(F) 33=-370(F) 34=-370(F) 35=-370(F) 35=-370(F) 35=-365(F) 38=-365(F) 39=-552(F)

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





LUMBER-

TOP CHORD	2x4 SPF No.2 *Except*
	1-3: 2x6 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 7=Mechanical, 2=0-3-8 Max Horz 2=132(LC 7) Max Uplift 7=-84(LC 8), 2=-123(LC 4) Max Grav 7=435(LC 1), 2=538(LC 1)

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

TOP CHORD 2-3=-642/22, 3-4=-603/26, 4-5=-611/84

BOT CHORD 2-9=-78/494, 8-9=-192/1056, 7-8=-84/555

WEBS 3-9=-13/282, 4-8=-514/110, 5-8=0/264, 5-7=-626/126, 4-9=-658/212

NOTES-

 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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

2) Provide adequate drainage to prevent water ponding.

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

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 84 lb uplift at joint 7 and 123 lb uplift at joint 2.

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

Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 139 lb down and 262 lb up at 1-4-0 on top chord, and 41 lb down and 44 lb up at 1-4-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

9) 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

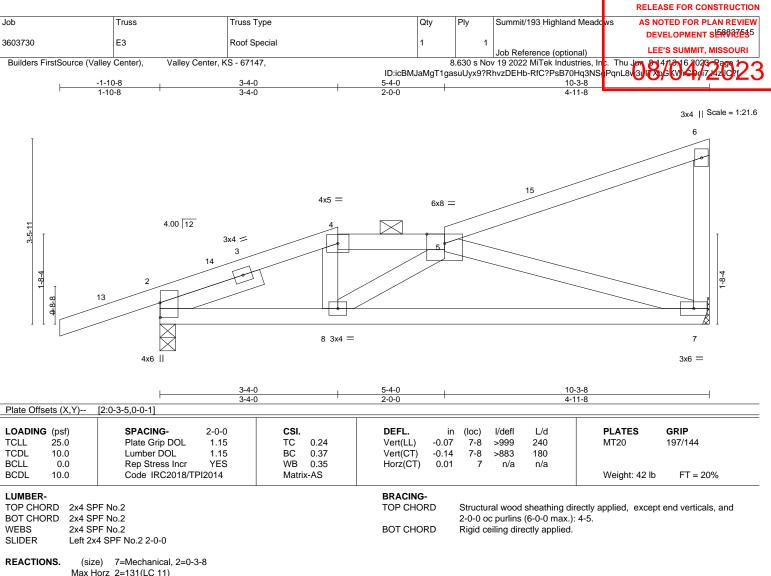
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-70, 3-4=-70, 4-6=-70, 7-10=-20

Concentrated Loads (lb) Vert: 3=71(F)





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Max Horz 2=131(LC 11) Max Uplift 7=-88(LC 12), 2=-149(LC 8) Max Grav 7=444(LC 1), 2=600(LC 1)

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

TOP CHORD 2-4=-713/135, 4-5=-635/145

BOT CHORD 2-8=-293/653, 7-8=-320/768

WEBS 5-7=-754/286

NOTES-

 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) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 3-4-0, Exterior(2E) 3-4-0 to 5-4-0, Interior(1) 5-4-0 to 10-1-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Provide adequate drainage to prevent water ponding.

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

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 88 lb uplift at joint 7 and 149 lb uplift at joint 2.

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

7) 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.

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



16023 Swingley Ridge Rd Chesterfield, MO 63017

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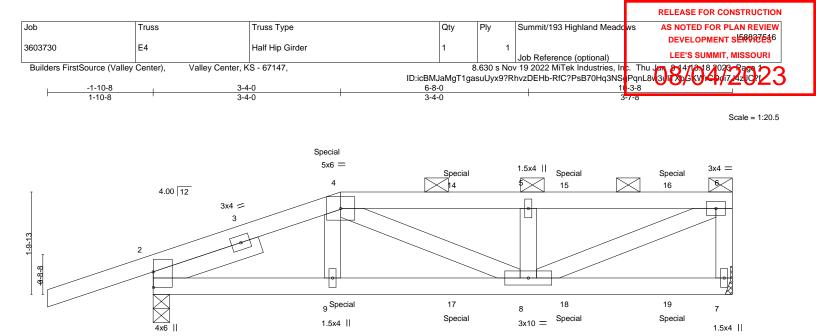


Plate Offsets (X,Y) [2:0-3-5,0-0-1] LOADING (psf) SPACING- TCLL 2-0-0 Plate Grip DOL CSI. DEFL. in (loc) l/defl L/d TCLL 25.0 Plate Grip DOL 1.15 TC 0.27 Vert(LL) -0.02 8-9 >999 240 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 BC 0.36 Vert(CT) -0.04 8-9 >999 180 BCLL 0.0 Rep Stress Incr NO WB 0.21 Horz(CT) 0.01 7 n/a n/a			3-4-0	<u>6-8-0</u> 3-4-0			<u>10-3-8</u> 3-7-8	
TCLL 25.0 Plate Grip DOL 1.15 TC 0.27 Vert(LL) -0.02 8-9 >999 240 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 BC 0.36 Vert(CT) -0.04 8-9 >999 180 BCLL 0.0 Rep Stress Incr NO WB 0.21 Horz(CT) 0.01 7 n/a n/a BCDL 10.0 Code IRC2018/TPI2014 Matrix-MS BRACING- Weight: 40 lb FT = 20%	Plate Offsets (X,Y)	[2:0-3-5,0-0-1]						
	TCLL 25.0 TCDL 10.0 BCLL 0.0	Plate Grip DOL Lumber DOL Rep Stress Incr	1.15 TC 0.27 1.15 BC 0.36 NO WB 0.21	7 Vert(LL) 6 Vert(CT) 1 Horz(CT)	-0.02 8- -0.04 8-	-9 >999 240 -9 >999 180	MT20 15	
BOT CHORD 2x4 SPF No.2 except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6. WEBS 2x4 SPF No.2 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. SLIDER Left 2x4 SPF No.2 2-0-0 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.	TOP CHORD 2x4 SP 3OT CHORD 2x4 SP WEBS 2x4 SP	PF No.2 PF No.2		TOP CHORE	exce	ept end verticals, and	2-0-0 oc purlins (6-0-0 max.)	

REACTIONS. (size) 7=Mechanical, 2=0-3-8 Max Horz 2=67(LC 7) Max Uplift 7=-102(LC 5), 2=-179(LC 4) Max Grav 7=518(LC 1), 2=676(LC 1)

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

TOP CHORD 2-4=-841/165, 4-5=-837/175, 5-6=-837/175, 6-7=-471/115

BOT CHORD 2-9=-168/769. 8-9=-170/760

WEBS 5-8=-293/114, 6-8=-175/871

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) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 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 102 lb uplift at joint 7 and 179 lb uplift at joint 2.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 33 lb down and 38 lb up at 3-4-0, 30 lb down and 38 lb up at 5-4-12, and 30 lb down and 37 lb up at 7-4-12, and 30 lb down and 39 lb up at 9-2-12 on top chord, and 103 lb down and 44 lb up at 3-4-0, 19 lb down at 5-4-12, and 19 lb down at 7-4-12, and 19 lb down at 9-2-12 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-4=-70, 4-6=-70, 7-10=-20

Continued on page 2



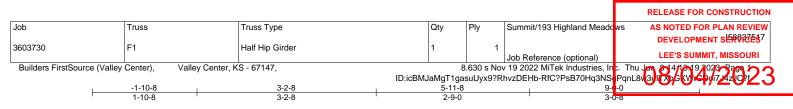


						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Summit/193 Highland Meado	ws AS NOTED FOR PLAN REVIEW
						DEVELOPMENT SERVICES
3603730	E4	Half Hip Girder	1	1		
					Job Reference (optional)	LEE'S SUMMIT, MISSOURI
Builders FirstSource (Valley	Center), Valley Center, K	(S - 67147,	;	3.630 s No	v 19 2022 MiTek Industries, In	c. Thu Jon 214/12:18 2023 Rage 2
		ID:icBM	IJaMqT1qa	asuUyx9?R	hvzDEHb-RfC?PsB70Hq3NS	PqnL8v3uICbgKV Cpdi74zIC?f
			5 5			

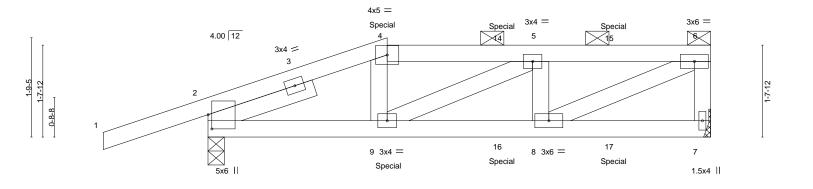
LOAD CASE(S) Standard

Concentrated Loads (lb) Vert: 9=-78(B) 4=-9(B) 14=-9(B) 15=-9(B) 16=-12(B) 17=-10(B) 18=-10(B) 19=-11(B)





Scale = 1:20.6



		3-2-8 3-2-8	5-11-8			9-0-0 3-0-8	
Plate Offsets (X,Y)	[2:0-3-1,0-0-13]	1					
LOADING (psf)	SPACING- 2-0-0	CSI.		n (loc) l/defl	L/d	PLATES	GRIP
TCLL 25.0 TCDL 10.0	Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.27 BC 0.45	Vert(LL) -0.02 Vert(CT) -0.04		240 180	MT20	197/144
BCLL 0.0	Rep Stress Incr NO	WB 0.25	Horz(CT) 0.01		n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS				Weight: 36 lb	FT = 20%
LUMBER-			BRACING-				
TOP CHORD 2x4 SF	PF No.2	TOP CHORD Structural wood sheathing directly applied or 5-9-14 oc pu				4 oc purlins,	
BOT CHORD 2x4 SF	PF No.2		except end verticals, and 2-0-0 oc purlins (5-10			oc purlins (5-10-10	max.): 4-6.
WEBS 2x4 SF	PF No.2		BOT CHORD	Rigid ceiling dire	ctly applied or 1	0-0-0 oc bracing.	
SLIDER Left 2x	4 SPF No.2 2-0-0						
REACTIONS. (siz	e) 7=Mechanical, 2=0-3-8						
(-	1 for 2 = 60 (LC 7)						
	Jplift $7=-101(LC 5)$, $2=-183(LC 4)$						
IVIAX L	J_{PIII} $I = 101(L0.5), Z = 103(L0.4)$						

Max Grav 7=572(LC 1), 2=707(LC 1)

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

2-4=-927/168, 4-5=-850/166, 5-6=-927/175, 6-7=-535/113 TOP CHORD

BOT CHORD 2-9=-176/860. 8-9=-178/927 5-8=-297/121, 6-8=-185/1024

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) 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.

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 101 lb uplift at joint 7 and 183 lb uplift at joint 2.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 77 lb down and 55 lb up at 3-2-8, and 54 lb down and 55 lb up at 5-3-4, and 54 lb down and 55 lb up at 7-3-4 on top chord, and 117 lb down and 40 lb up at 3-2-8, and 36 lb down at 5-3-4, and 36 lb down at 7-3-4 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-4=-70, 4-6=-70, 7-10=-20

Continued on page 2



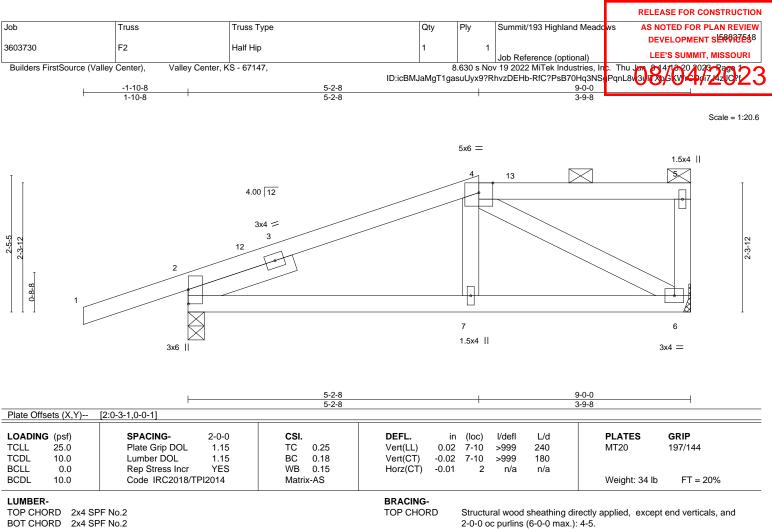


						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Summit/193 Highland Meado	ws AS NOTED FOR PLAN REVIEW
						DEVELOPMENT SERVICES
3603730	F1	Half Hip Girder	1	1		
					Job Reference (optional)	LEE'S SUMMIT, MISSOURI
Builders FirstSource (Valley	Center), Valley Center, k	(S - 67147,		3.630 s Nov	v 19 2022 MiTek Industries, In	c. Thu Jan 2014/12:19/10/23-19/29 20 0
		ID:icBM	JaMgT1ga	asuUyx9?R	hvzDEHb-RfC?PsB70Hq3NS	

LOAD CASE(S) Standard

Concentrated Loads (lb) Vert: 4=-54(F) 9=-117(F) 14=-54(F) 15=-54(F) 16=-36(F) 17=-36(F)





BOT CHORD Rigid ceiling directly applied.

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

REACTIONS. (size) 2=0-3-8, 6=Mechanical Max Horz 2=87(LC 11) Max Uplift 2=-144(LC 8), 6=-69(LC 8)

2x4 SPF No.2

Max Grav 2=544(LC 1), 6=385(LC 1)

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

TOP CHORD 2-4=-434/153

BOT CHORD 2-7=-226/414 6-7=-227/406 WEBS 4-6=-467/233

WEBS

SLIDER

- 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) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8. Interior(1) 1-1-8 to 5-2-8. Exterior(2E) 5-2-8 to 8-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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 144 lb uplift at joint 2 and 69 lb uplift at joint 6.

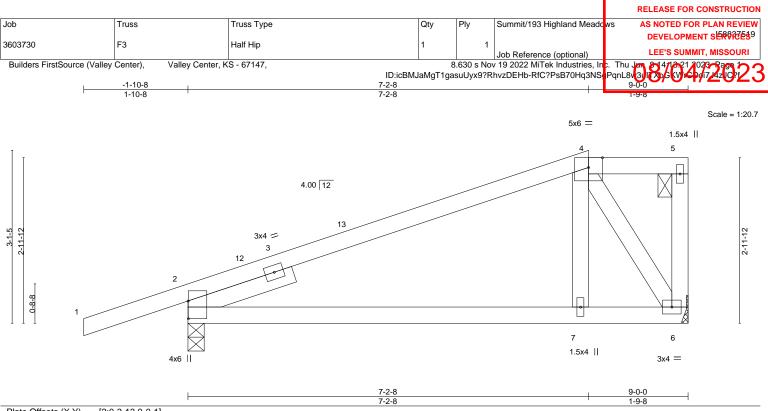
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

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







_OADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	n (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.57	Vert(LL) 0.0	7 7-10	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.41	Vert(CT) -0.1	3 7-10	>842	180		
BCLL 0.0	Rep Stress Incr YES	WB 0.09	Horz(CT) 0.0	32	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS					Weight: 34 lb	FT = 20%
UMBER-			BRACING-					
FOP CHORD 2x4	SPF No.2		TOP CHORD	Structu	ural wood	sheathing di	rectly applied, except	t end verticals, and
BOT CHORD 2x4	SPF No.2			2-0-0 0	oc purlins:	4-5.		
WEBS 2x4	SPF No.2		BOT CHORD	Rigid o	ceiling dire	ectly applied.		
SLIDER Left	2x4 SPF No.2 2-0-0			Ū.				

REACTIONS. (size) 2=0-3-8, 6=Mechanical Max Horz 2=113(LC 11) Max Uplift 2=-141(LC 8), 6=-72(LC 8)

Max Grav 2=544(LC 1), 6=385(LC 1)

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

TOP CHORD 2-4=-294/156

BOT CHORD 2-7=-155/252

WEBS 4-7=-34/284, 4-6=-468/236

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) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 7-2-8, Exterior(2E) 7-2-8 to 8-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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 141 lb uplift at joint 2 and 72 lb uplift at joint 6.

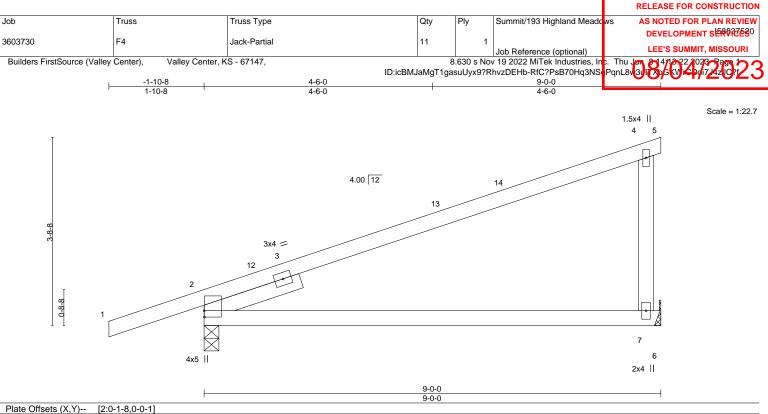
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

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







OADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl I	_/d PLATES GRIP
CLL 25.0	Plate Grip DOL 1.15	TC 1.00	Vert(LL) -0.23 7-10 >455 2	40 MT20 197/144
CDL 10.0	Lumber DOL 1.15	BC 0.68	Vert(CT) -0.51 7-10 >203 1	80
BCLL 0.0	Rep Stress Incr YES	WB 0.06	Horz(CT) 0.09 2 n/a r	n/a
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 29 lb FT = 20%

 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2

 WEBS
 2x4 SPF No.2

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

TOP CHORD BOT CHORD

Structural wood sheathing directly applied. Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 7=Mechanical Max Horz 2=140(LC 8) Max Uplift 2=-123(LC 8), 7=-91(LC 8) Max Grav 2=537(LC 1), 7=390(LC 1)

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

TOP CHORD 2-4=-563/68

WEBS 4-7=-279/215

NOTES-

 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) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 9-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

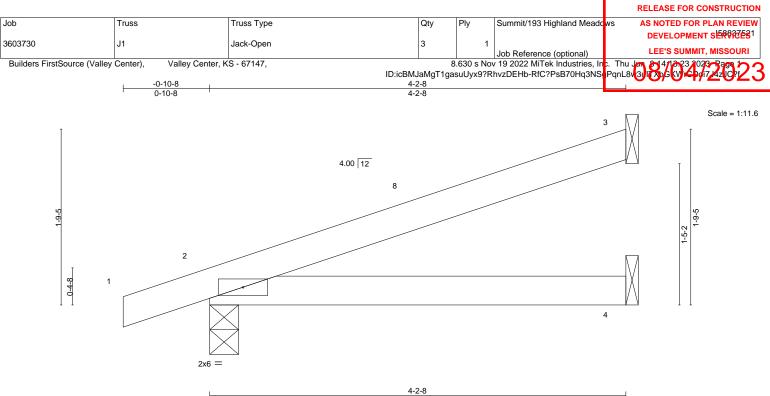
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 123 lb uplift at joint 2 and 91 lb uplift at joint 7.
- 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) 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.







		4-2-8				
LOADING (psf)	SPACING- 2-0-	 DEFL. in Vert(LL) -0.02	(loc)	l/defl L/c		GRIP 197/144
TCLL 25.0 TCDL 10.0	Plate Grip DOL 1.1 Lumber DOL 1.1	 Vert(CT) -0.02	4-7 4-7	>999 240	-	197/144
BCLL 0.0 BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	 Horz(CT) 0.00	2	n/a n/a	a Weight:	11 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

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

Max Horz 2=65(LC 8)

Max Uplift 3=-45(LC 12), 2=-60(LC 8)

Max Grav 3=124(LC 1), 2=254(LC 1), 4=74(LC 3)

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

NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-1-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

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

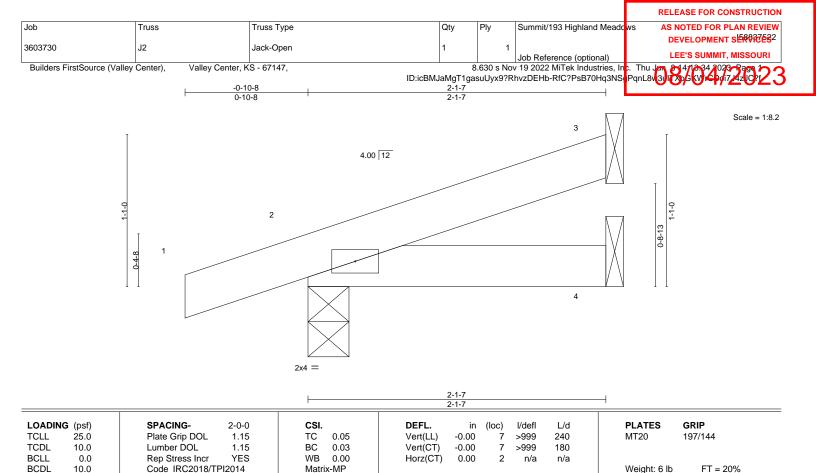
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 3 and 60 lb uplift at joint 2.

6) 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.





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.



11	JMI	RF	P-

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

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 2-1-7 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

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

Max Horz 2=39(LC 8)

Max Uplift 3=-19(LC 12), 2=-51(LC 8) Max Grav 3=53(LC 1), 2=167(LC 1), 4=35(LC 3)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

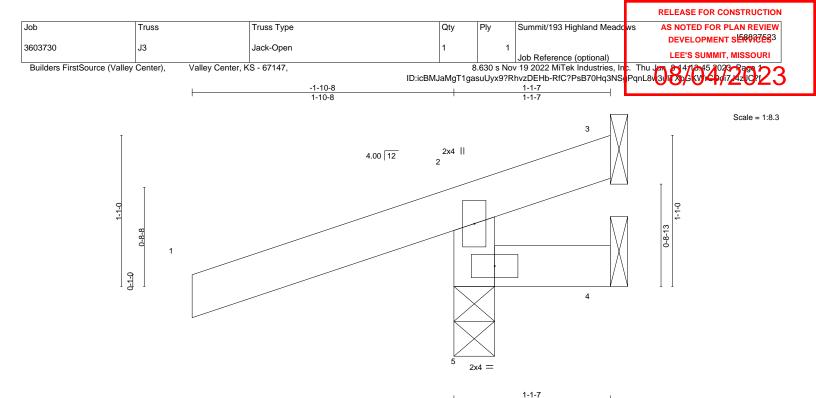
3) Refer to girder(s) for truss to truss connections.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 3 and 51 lb uplift at joint 2.

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.



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			1-1-7
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.28	Vert(LL) 0.00 5 >999 240 MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.08	Vert(CT) 0.00 5 >999 180
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3 n/a n/a
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MR	Weight: 5 lb FT = 20%

BOT CHORD

LUMBER-

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

BRACING-TOP CHORD

Structural wood sheathing directly applied or 1-1-7 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

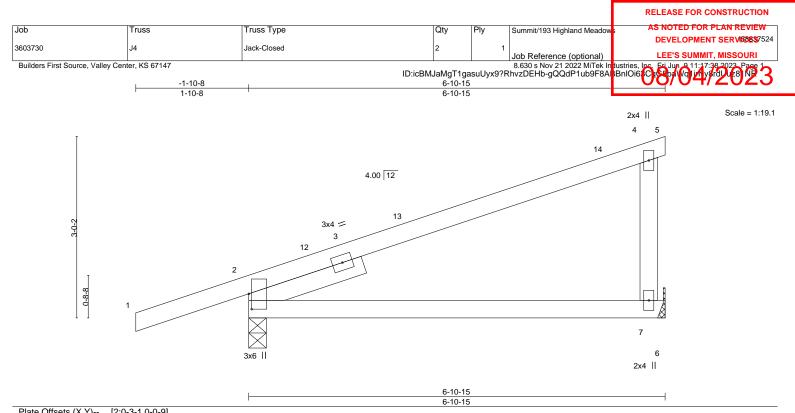
- REACTIONS. (size) 3=Mechanical, 4=Mechanical, 5=0-3-8 Max Horz 5=38(LC 8) Max Uplift 3=-71(LC 1), 4=-34(LC 1), 5=-150(LC 8) Max Grav 3=40(LC 8), 4=20(LC 8), 5=333(LC 1)
- FORCES. (lb) Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-280/212

NOTES-

- 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) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 71 lb uplift at joint 3, 34 lb uplift at joint 4 and 150 lb uplift at joint 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.







LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.58	Vert(LL) 0.09 7-10 >866 240 MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.37	Vert(CT) -0.17 7-10 >466 180
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.04 2 n/a n/a
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS	Weight: 24 lb FT = 20%

 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2

 WEBS
 2x4 SPF No.2

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

BRACING-TOP CHORD BOT CHORD

Sheathed, except end verticals. Rigid ceiling directly applied.

REACTIONS. (size) 7=Mechanical, 2=0-3-8 Max Horz 2=113(LC 11) Max Uplift 7=-57(LC 8), 2=-123(LC 8) Max Grav 7=291(LC 1), 2=448(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-334/78

NOTES-

 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) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 6-10-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

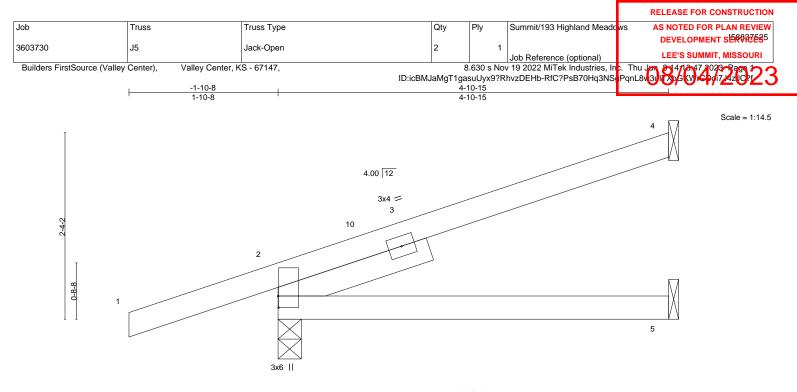
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 2=123.
- 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) 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.



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			L		4-10-15				
			I		4-10-15				
Plate Offsets (X,Y)	[2:0-1-12,0-0-1]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) l/defl	L/d	PLATES	GRIP	

			·					-
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS				Weight: 16 lb FT = 20%	
BCLL	0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.01	4	n/a n/a		
TCDL	10.0	Lumber DOL 1.15	BC 0.19	Vert(CT) -0.04	5-8	>999 180		
TCLL	25.0	Plate Grip DOL 1.15	TC 0.26	Vert(LL) 0.03	5-8	>999 240	MT20 197/144	
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc)	l/defl L/d	PLATES GRIP	

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2SLIDERLeft 2x4 SPF No.2 2-0-0

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied. Rigid ceiling directly applied.

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical

Max Horz 2=90(LC 8) Max Uplift 4=-54(LC 12), 2=-106(LC 8)

Max Grav 4=138(LC 1), 2=375(LC 1), 5=83(LC 3)

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

NOTES-

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

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

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

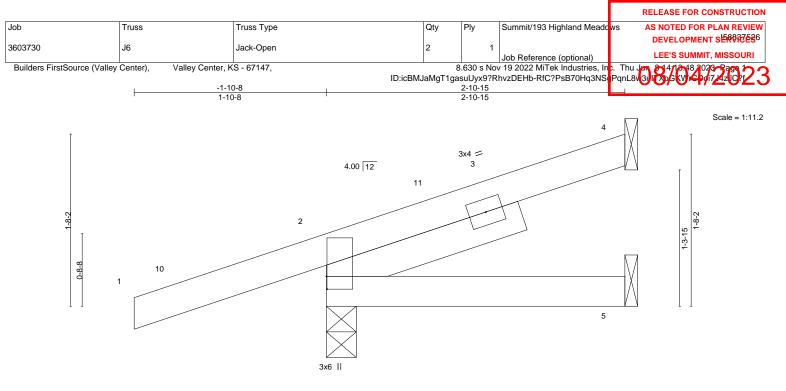
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 4 and 106 lb uplift at joint 2.

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) 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.







			L		2-10-15				
			I		2-10-15		1		
Plate Offsets (X,Y)	[2:0-1-8,0-0-1]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) l/defl	L/d	PLATES	GRIP	

						DDACING						
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-MP						Weight: 11 lb	FT = 20%
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	5-8	>999	180		
TCLL	25.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	-0.00	8	>999	240	MT20	197/144
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP

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

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 2-10-15 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical

Max Horz 2=65(LC 8) Max Uplift 4=-28(LC 12), 2=-103(LC 8)

Max Grav 4=62(LC 1), 2=303(LC 1), 5=43(LC 3)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 2-10-3 zone; cantilever left and right
- exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

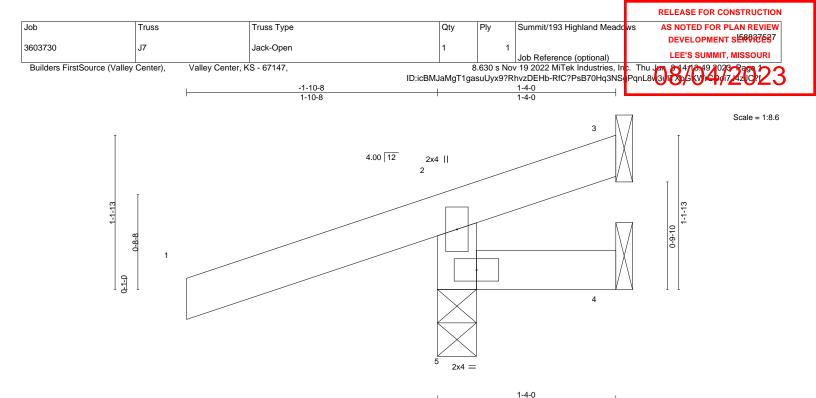
3) Refer to girder(s) for truss to truss connections.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 4 and 103 lb uplift at joint 2.

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.







OADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
CLL 25.0	Plate Grip DOL 1.15	TC 0.28	Vert(LL) 0.	00 5	>999	240	MT20	197/144
CDL 10.0	Lumber DOL 1.15	BC 0.08	Vert(CT) 0.	00 5	>999	180		
CLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.	00 3	n/a	n/a		
CDL 10.0	Code IRC2018/TPI2014	Matrix-MR					Weight: 6 lb	FT = 20%

TOP CHORD

BOT CHORD

LUMBER-

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

Structural wood sheathing directly applied or 1-4-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. 3=Mechanical, 4=Mechanical, 5=0-3-8 (size) Max Horz 5=40(LC 8) Max Uplift 3=-43(LC 1), 4=-26(LC 1), 5=-138(LC 8) Max Grav 3=26(LC 8), 4=19(LC 8), 5=316(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-266/199

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) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

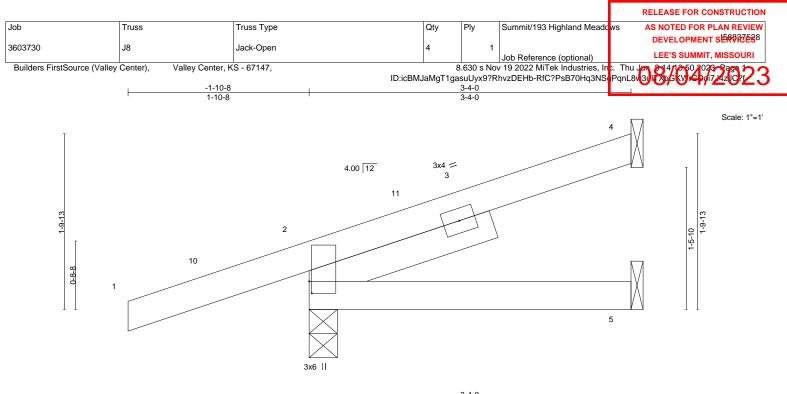
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

- 4) 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 lb uplift at joint 3, 26 lb uplift at joint 4 and 138 lb uplift at joint 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.







								4-0 4-0				
Plate Offs	sets (X,Y)	[2:0-1-8,0-0-5]										
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	0.01	5-8	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	-0.01	5-8	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-MP						Weight: 12 lb	FT = 20%

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2SLIDERLeft 2x4 SPF No.2 2-0-0

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 3-4-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical

Max Horz 2=70(LC 8) Max Uplift 4=-33(LC 12), 2=-103(LC 8)

Max Grav 4=79(LC 1), 2=316(LC 1), 5=52(LC 3)

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

NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 3-3-4 zone; cantilever left and right

exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

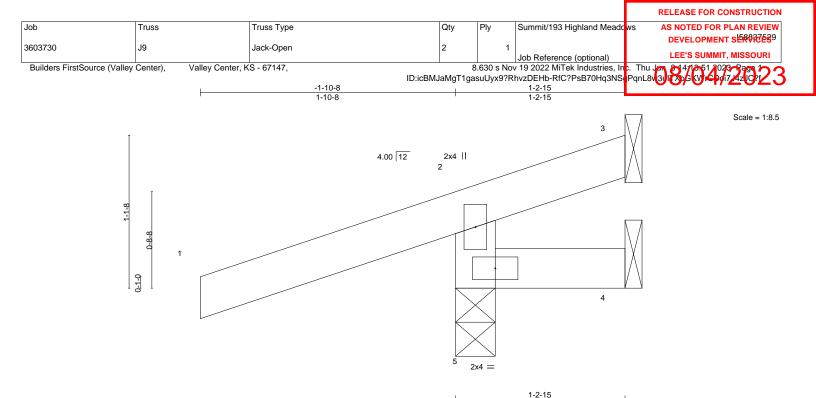
3) Refer to girder(s) for truss to truss connections.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 4 and 103 lb uplift at joint 2.

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.







							1		1-2-	15		
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	0.00	5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	0.00	5	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-MR						Weight: 6 lb	FT = 20%

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

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 1-2-15 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 4=Mechanical, 5=0-3-8 Max Horz 5=39(LC 8) Max Uplift 3=-53(LC 1), 4=-29(LC 1), 5=-142(LC 8) Max Grav 3=31(LC 8), 4=19(LC 8), 5=322(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-271/204

NOTES-

 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) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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.

- 4) 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 3, 29 lb uplift at joint 4 and 142 lb uplift at joint 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



MITEK° 16023 Swingley Ridge Rd Chesterfield, MO 63017

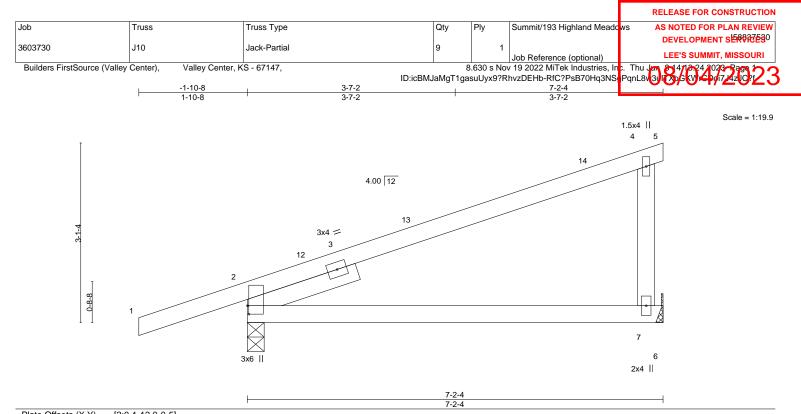


Plate Offsets (X,Y)	[2:0-1-12,0-0-5]		
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.60	Vert(LL) 0.10 7-10 >819 240 MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.40	Vert(CT) -0.20 7-10 >414 180
BCLL 0.0	Rep Stress Incr YES	WB 0.04	Horz(CT) 0.04 2 n/a n/a
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS	Weight: 24 lb FT = 20%
			PRACING-

 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2

 WEBS
 2x4 SPF No.2

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

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied. Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 7=Mechanical Max Horz 2=118(LC 8) Max Uplift 2=-114(LC 8), 7=-71(LC 8) Max Grav 2=459(LC 1), 7=304(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-359/52

NOTES-

 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) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 7-2-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

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

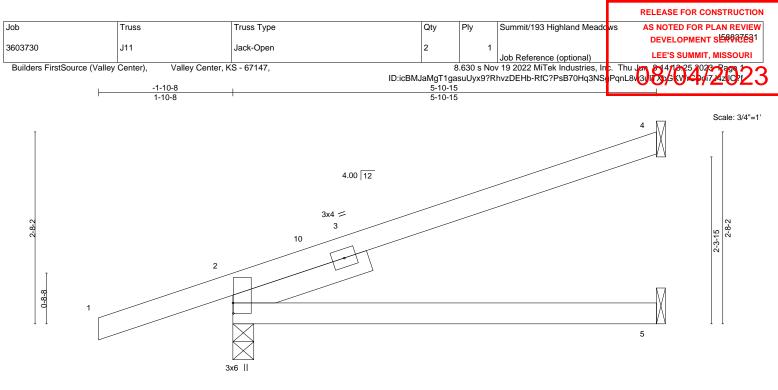
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 114 lb uplift at joint 2 and 71 lb uplift at joint 7.

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) 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.







					5-10-15 5-10-15	
Plate Offs	sets (X,Y)	[2:0-1-12,0-0-1]			3-10-13	
	,010 (,1,1)					
LOADING	G (psf)	SPACING-	2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC 0.42	Vert(LL) 0.06 5-8 >999 240 MT20 197/14	4
TCDL	10.0	Lumber DOL	1.15	BC 0.27	Vert(CT) -0.10 5-8 >701 180	

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.02

4

n/a

Rigid ceiling directly applied.

n/a

Structural wood sheathing directly applied.

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BCLL

BCDL

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

0.0

10.0

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

REACTIONS.

(size) 4=Mechanical, 2=0-3-8, 5=Mechanical Max Horz 2=102(LC 8)

Rep Stress Incr

Code IRC2018/TPI2014

Max Uplift 4=-67(LC 12), 2=-110(LC 8) Max Grav 4=173(LC 1), 2=415(LC 1), 5=101(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-263/43

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) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 5-10-3 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

WB

Matrix-AS

0.00

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

YES

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

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 67 lb uplift at joint 4 and 110 lb uplift at joint 2.

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.

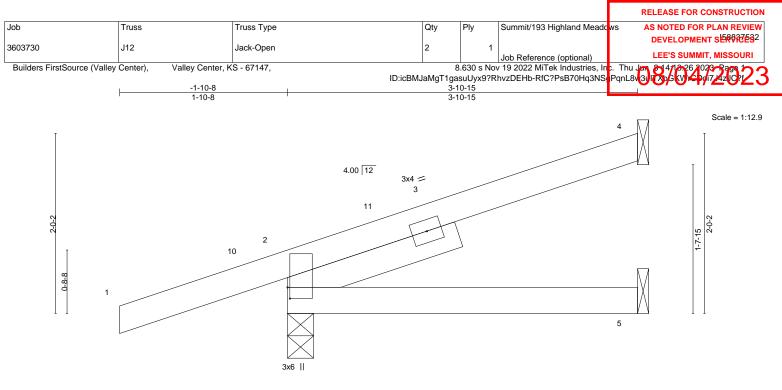
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



FT = 20%

Weight: 18 lb





	3-10-15	1
	3-10-15	1
ts (X,Y) [2:0-1-8,0-0-5]		

LOADING(psf)TCLL25.0TCDL10.0BCLL0.0BCDL10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.22 BC 0.11 WB 0.00 Matrix-MP	DEFL. in (loc) l/defl L/d Vert(LL) -0.01 5-8 >999 240 Vert(CT) -0.02 5-8 >999 180 Horz(CT) 0.01 2 n/a n/a	PLATES GRIP MT20 197/144 Weight: 14 lb FT = 20%

Plate Offsets

 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2

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

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 3-10-15 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical

Max Horz 2=78(LC 8) Max Uplift 4=-41(LC 12), 2=-103(LC 8)

Max Grav 4=101(LC 1), 2=336(LC 1), 5=64(LC 3)

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

NOTES-

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

grip DOL=1.60 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

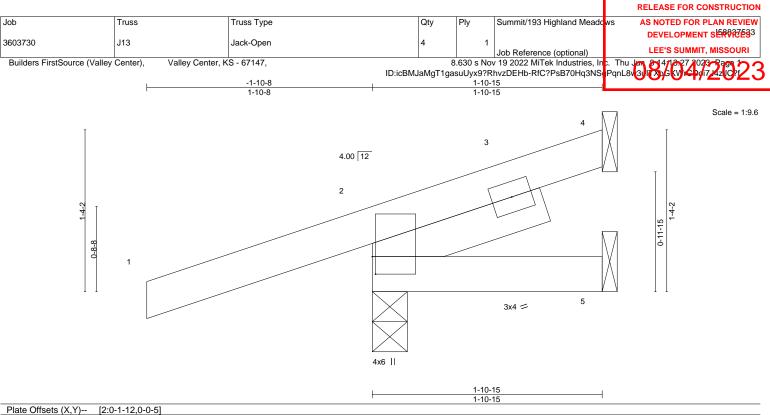
3) Refer to girder(s) for truss to truss connections.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 4 and 103 lb uplift at joint 2.

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.



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LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.24	Vert(LL) 0.00 8 >999 240 MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT) 0.00 8 >999 180
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 2 n/a n/a
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP	Weight: 9 lb FT = 20%

 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2

 SLIDER
 Left 2x4 SPF No.2 1-6-0

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 1-10-15 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical

Max Horz 2=54(LC 8) Max Uplift 4=-13(LC 12), 2=-108(LC 8)

Max Grav 4=18(LC 1), 2=282(LC 1), 5=24(LC 3)

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

NOTES-

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

grip DOL=1.60 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

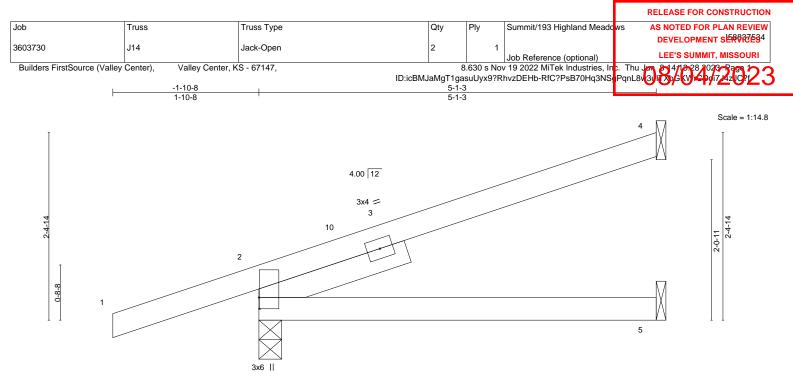
Refer to girder(s) for truss to truss connections.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 13 lb uplift at joint 4 and 108 lb uplift at joint 2.

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.







		F			5-1-3 5-1-3				
Plate Offsets ()	,Y) [2:0-1-12,0-0-1]				0.10				
LOADING (psf	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl L/d	PLATES	GRIP	
TCLL 25.0	Plate Grip DOL	1.15	TC 0.29	Vert(LL)	0.04 5-8	>999 240	MT20	197/144	
TCDL 10.0	Lumber DOL	1.15	BC 0.20	Vert(CT)	-0.05 5-8	>999 180			

	ТМ	BE	D_
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BCLL

BCDL

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2SLIDERLeft 2x4 SPF No.2 2-0-0

0.0

10.0

BRACING-TOP CHORD BOT CHORD

Horz(CT)

0.01

Structural wood sheathing directly applied. Rigid ceiling directly applied.

n/a

Weight: 17 lb

FT = 20%

n/a

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical

Max Horz 2=92(LC 8) Max Uplift 4=-57(LC 12), 2=-107(LC 8)

Rep Stress Incr

Code IRC2018/TPI2014

Max Grav 4=144(LC 1), 2=382(LC 1), 5=86(LC 3)

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

NOTES-

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

WB 0.00

Matrix-AS

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

YES

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

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 57 lb uplift at joint 4 and 107 lb uplift at joint 2.

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) 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.





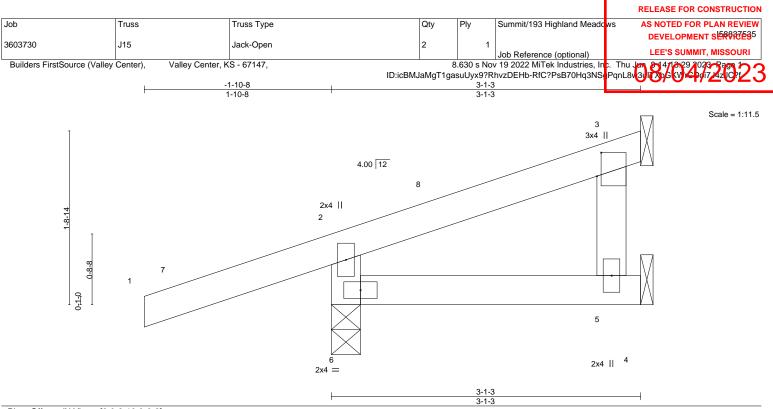


Plate Offsets ()	X,Y) [:	3:0-2-13,0-0-8]										
LOADING (psi	f)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.	ó	Plate Grip DOL	1.15	тс	0.26	Vert(LL)	0.00	5 -6	>999	240	MT20	197/144
TCDL 10.	0	Lumber DOL	1.15	BC	0.07	Vert(CT)	-0.00	5-6	>999	180		
BCLL 0.	0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.	0	Code IRC2018/TI	PI2014	Matri	ĸ-MP						Weight: 11 lb	FT = 20%
LUMBER-						BRACING						

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 3-1-3 oc purlins,
BOT CHORD 2x4 SPF No.2	except end verticals.
WEBS 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=Mechanical, 3=Mechanical, 6=0-3-8

Max Horz 6=59(LC 8) Max Uplift 3=-27(LC 12), 6=-112(LC 8)

Max Grav 5=57(LC 3), 3=55(LC 1), 6=315(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-6=-273/202

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) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 2-9-11 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

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

5) 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.

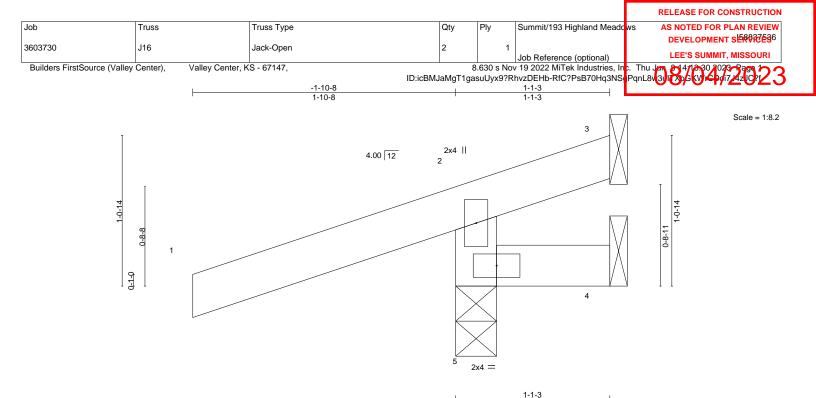
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 3 and 112 lb uplift at joint 6.

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

8) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.







LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	0.00	5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	0.00	5	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-MR						Weight: 5 lb	FT = 20%

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

BRACING-TOP CHORD

BOT CHORD

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

- REACTIONS. (size) 3=Mechanical, 4=Mechanical, 5=0-3-8 Max Horz 5=38(LC 8) Max Uplift 3=-74(LC 1), 4=-35(LC 1), 5=-152(LC 8) Max Grav 3=42(LC 8), 4=21(LC 8), 5=336(LC 1)
- FORCES. (lb) Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-282/213

NOTES-

 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) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

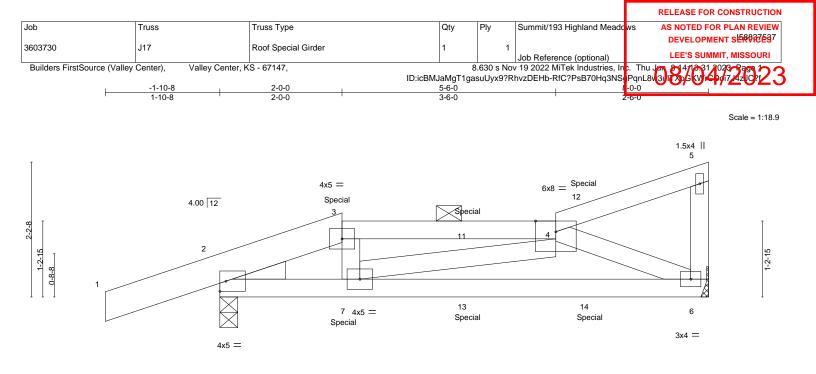
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

- 4) 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 3, 35 lb uplift at joint 4 and 152 lb uplift at joint 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



16023 Swingley Ridge Rd Chesterfield, MO 63017



	F	2-0-0		<u>5-6-0</u> 3-6-0			<u>8-0-0</u> 2-6-0	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TPI	2-0-0 1.15 1.15 NO	CSI. TC 0.31 BC 0.39 WB 0.10 Matrix-MP	DEFL. Vert(LL) -0.1 Vert(CT) -0. Horz(CT) 0.1	04 6-7 >9 10 6-7 >9	defl L/d 999 240 950 180 n/a n/a	PLATES MT20 Weight: 34 lb	GRIP 197/144 FT = 20%
1-3: 2x BOT CHORD 2x4 SF	PF No.2 *Except* 6 SPF No.2 PF No.2 PF No.2 PF No.2			BRACING- TOP CHORD BOT CHORD	except end	l verticals, and 2-0	ectly applied or 6-0-0 -0 oc purlins (6-0-0 rr or 10-0-0 oc bracing.	
Max H Max U Max G FORCES. (Ib) - Max. TOP CHORD 2-3=- BOT CHORD 2-7=-	e) 6=Mechanical, 2=0-3- orz 2=82(LC 7) plift 6=-69(LC 8), 2=-148(L rav 6=399(LC 1), 2=550(L Comp./Max. Ten All forc 719/68, 3-4=-649/64 78/629, 6-7=-126/565 614/155, 4-7=0/253	_C 4) _C 1)	iss except when showr	ì.				
 MWFRS (envelope) grip DOL=1.60 2) Provide adequate di 3) This truss has been 4) Refer to girder(s) for 5) Provide mechanical joint 2. 6) This truss is designer referenced standard 7) Graphical purlin repi 8) Hanger(s) or other c 2-0-0, and 29 lb dow 2-0-0, and 25 lb dow the responsibility of 	resentation does not depict connection device(s) shall b m and 37 lb up at 4-0-12, m at 4-0-12, and 25 lb dow	r left and right ex onding. ttom chord live I russ to bearing 2018 Internationa t the size or the be provided suffi and 29 lb down wn at 6-0-12 on	xposed ; end vertical le load nonconcurrent wit plate capable of withst al Residential Code se orientation of the purlir icient to support conce and 38 lb up at 6-0-12 bottom chord. The de	If and right exposed; L h any other live loads. anding 69 lb uplift at joi ctions R502.11.1 and F n along the top and/or t ntrated load(s) 28 lb do 2 on top chord, and 65 ssign/selection of such	umber DOL=1. nt 6 and 148 lt 8802.10.2 and ottom chord. wn and 36 lb u b down and 14	.60 plate o uplift at up at 4 lb up at	STATE OI STATE OI SI	F MISSOL

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-70, 3-4=-70, 4-5=-70, 6-8=-20

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1** Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601 June 12,2023



						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Summit/193 Highland Meado	ws AS NOTED FOR PLAN REVIEW
						DEVELOPMENT SERVICES
3603730	J17	Roof Special Girder	1	1		
					Job Reference (optional)	LEE'S SUMMIT, MISSOURI
Builders FirstSource (Valley	Center), Valley Center, k	(S - 67147,	8	3.630 s Nov	v 19 2022 MiTek Industries, In	. Thu Jan 2014/12:31/1023-12:39 200
		ID:icBM	JaMgT1ga	isuUyx9?R	hvzDEHb-RfC?PsB70Hq3NS	

LOAD CASE(S) Standard

Concentrated Loads (lb) Vert: 3=-13(B) 7=-15(B) 11=-17(B) 12=-17(B) 13=-25(B) 14=-25(B)



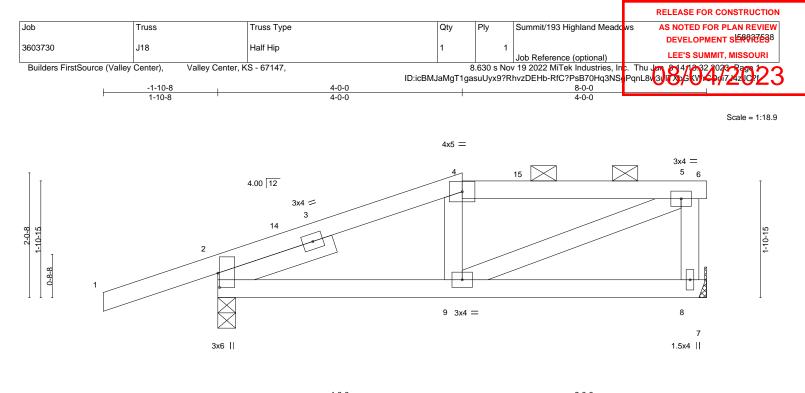


Plate Offse	ts (X,Y)	[2:0-2-13,0-0-5]			4-0-0	1				4-0-0	1	
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	-0.01	8-9	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.02	8-9	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	-0.00	2	n/a	n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matri	x-AS						Weight: 31 lb	FT = 20%
LUMBER-						BRACING-						
TOP CHOF BOT CHOF		PF No.2 PF No.2				TOP CHOP	RD			sheathing dir (6-0-0 max.):	ectly applied, except 4-6.	
WEBS	2x4 SP	F No.2				BOT CHOP	RD	Rigid c	eiling dire	ectly applied.		
SLIDER	Left 2x-	4 SPF No.2 2-0-0										

ACTIONS. (size) 2=0-3-8, 8=Mechanical Max Horz 2=75(LC 8) Max Uplift 2=-134(LC 8), 8=-59(LC 8)

Max Grav 2=495(LC 1), 8=343(LC 1)

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

TOP CHORD 2-4=-395/164, 4-5=-387/189

BOT CHORD 2-9=-179/378

WEBS 5-8=-303/153, 5-9=-203/418

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) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 4-0-0, Exterior(2E) 4-0-0 to 8-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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 134 lb uplift at joint 2 and 59 lb uplift at joint 8.

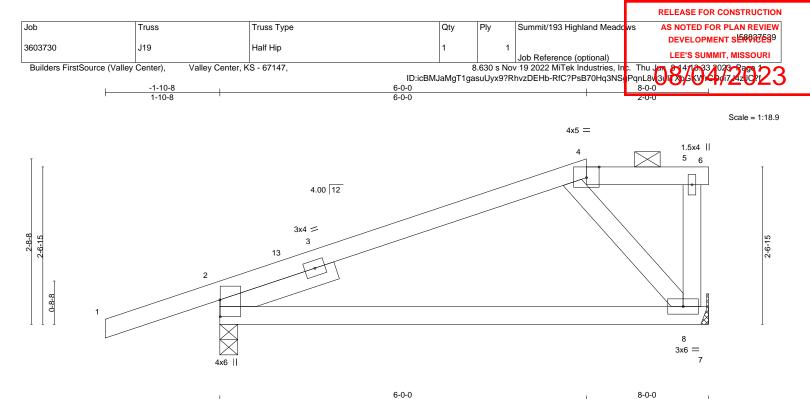
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

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







			6-0-0	<u>' 2-0-0</u> '
Plate Offsets (X,Y)	[2:0-3-5,0-0-1], [4:0-2-8,Edge]			
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.48 BC 0.45 WB 0.05 Matrix-AS	DEFL. in (loc) I/defl Vert(LL) -0.11 8-11 >828 Vert(CT) -0.24 8-11 >379 Horz(CT) 0.03 2 n/a	L/d PLATES GRIP 240 MT20 197/144 180 n/a Weight: 29 lb FT = 20%
	PF No.2 PF No.2		BRACING- TOP CHORD Structural wood sl 2-0-0 oc purlins (6	neathing directly applied, except end verticals, and

BOT CHORD

Rigid ceiling directly applied.

SLIDER Left 2x4 SPF No.2 2-0-0 **REACTIONS.** (size) 2=0-3-8, 8=Mechanical Max Horz 2=97(LC 11)

2x4 SPF No.2

Max Holz 2=97(LC 11) Max Uplift 2=-134(LC 8), 8=-59(LC 8) Max Grav 2=495(LC 1), 8=343(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-562/82

NOTES-

WEBS

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) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 6-0-0, Exterior(2E) 6-0-0 to 8-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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 134 lb uplift at joint 2 and 59 lb uplift at joint 8.

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

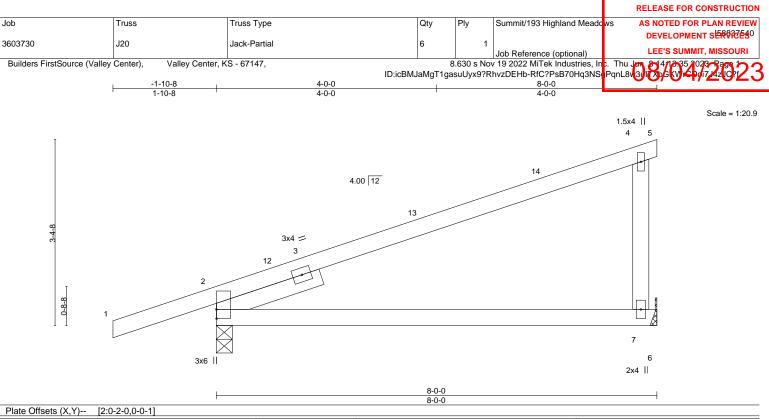
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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



BEFORE USE. nponent, not to the overall rmmanent bracing g the 3CSI Building Component 16023 Swingley Ridge Rd Chesterfield, MO 63017

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



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.77	Vert(LL) 0.14 7-10 >644 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.52	Vert(CT) -0.32 7-10 >293 180	
BCLL 0.0	Rep Stress Incr YES	WB 0.05	Horz(CT) 0.06 2 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 26 lb FT = 20%
LUMBER-	-		BRACING-	

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

TOP CHORD BOT CHORD

Structural wood sheathing directly applied. Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 7=Mechanical Max Horz 2=128(LC 8) Max Uplift 2=-118(LC 8), 7=-80(LC 8) Max Grav 2=494(LC 1), 7=343(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-445/59

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) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 8-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

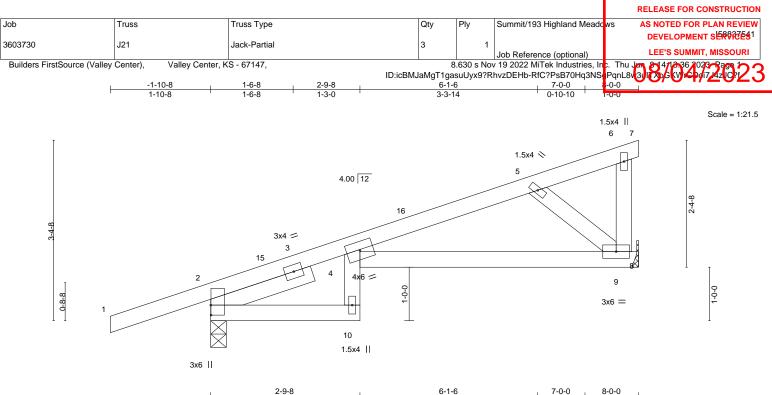
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 118 lb uplift at joint 2 and 80 lb uplift at joint 7.
- 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.







	•	2-9-8		1	3-3-14			0-10-10	1-0-0	
2-4,0-0-1]										
•										
SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
Plate Grip DOL	1.15	TC	1.00	Vert(LL)	-0.21	10	>446	240	MT20	197/144
Lumber DOL	1.15	BC	0.32	Vert(CT)	-0.38	10	>242	180		
Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.21	9	n/a	n/a		
Code IRC2018/TPI2	2014	Matrix	-AS						Weight: 29 lb	FT = 20%
	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15	SPACING-2-0-0CSI.Plate Grip DOL1.15TCLumber DOL1.15BCRep Stress IncrYESWB	SPACING- 2-0-0 CSI. Plate Grip DOL 1.15 TC 1.00 Lumber DOL 1.15 BC 0.32 Rep Stress Incr YES WB 0.09	SPACING- 2-0-0 CSI. DEFL. Plate Grip DOL 1.15 TC 1.00 Vert(LL) Lumber DOL 1.15 BC 0.32 Vert(CT) Rep Stress Incr YES WB 0.09 Horz(CT)	SPACING- 2-0-0 CSI. DEFL. in Plate Grip DOL 1.15 TC 1.00 Vert(LL) -0.21 Lumber DOL 1.15 BC 0.32 Vert(CT) -0.38 Rep Stress Incr YES WB 0.09 Horz(CT) 0.21	SPACING- 2-0-0 CSI. DEFL. in (loc) Plate Grip DOL 1.15 TC 1.00 Vert(LL) -0.21 10 Lumber DOL 1.15 BC 0.32 Vert(CT) -0.38 10 Rep Stress Incr YES WB 0.09 Horz(CT) 0.21 9	SPACING- 2-0-0 CSI. DEFL. in (loc) l/defl Plate Grip DOL 1.15 TC 1.00 Vert(LL) -0.21 10 >446 Lumber DOL 1.15 BC 0.32 Vert(CT) -0.38 10 >242 Rep Stress Incr YES WB 0.09 Horz(CT) 0.21 9 n/a	SPACING- 2-0-0 CSI. DEFL. in (loc) l/defl L/d Plate Grip DOL 1.15 TC 1.00 Vert(LL) -0.21 10 >446 240 Lumber DOL 1.15 BC 0.32 Vert(CT) -0.38 10 >242 180 Rep Stress Incr YES WB 0.09 Horz(CT) 0.21 9 n/a n/a	SPACING- 2-0-0 CSI. DEFL. in (loc) l/defl L/d PLATES Plate Grip DOL 1.15 TC 1.00 Vert(LL) -0.21 10 >446 240 MT20 Lumber DOL 1.15 BC 0.32 Vert(CT) -0.38 10 >242 180 Rep Stress Incr YES WB 0.09 Horz(CT) 0.21 9 n/a n/a

 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2

 WEBS
 2x4 SPF No.2

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

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied. Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 9=Mechanical Max Horz 2=128(LC 8) Max Uplift 2=-117(LC 8), 9=-79(LC 8) Max Grav 2=496(LC 1), 9=343(LC 1)

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

TOP CHORD 4-12=-250/52, 4-5=-458/209 BOT CHORD 4-9=-310/466

WEBS 5-9=-594/396

NOTES-

 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) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 8-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

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

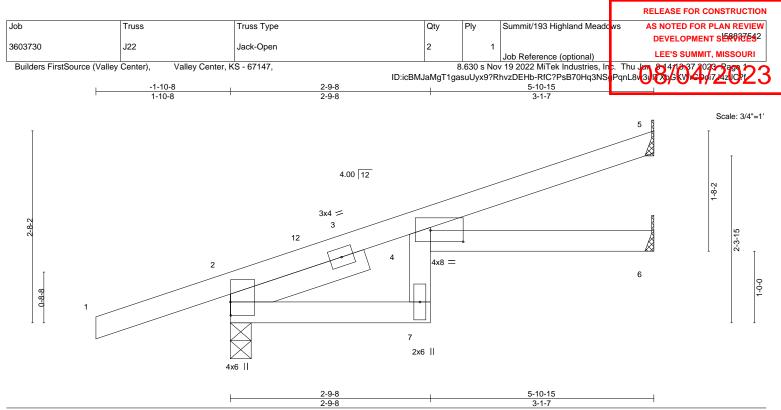
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 117 lb uplift at joint 2 and 79 lb uplift at joint 9.

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) 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.



NiTek* 16023 Swingley Ridge Rd Chesterfield, MO 63017



LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	тс	0.57	Vert(LL)	0.11	7	>661	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.15	7	>465	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.09	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matri	x-AS						Weight: 20 lb	FT = 20%

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2SLIDERLeft 2x4 SPF No.2 2-0-0

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied. Rigid ceiling directly applied.

REACTIONS. (size) 5=Mechanical, 2=0-3-8, 6=Mechanical

Max Horz 2=102(LC 8) Max Uplift 5=-52(LC 12), 2=-110(LC 8), 6=-6(LC 12) Max Grav 5=153(LC 1), 2=416(LC 1), 6=97(LC 3)

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

NOTES-

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

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

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

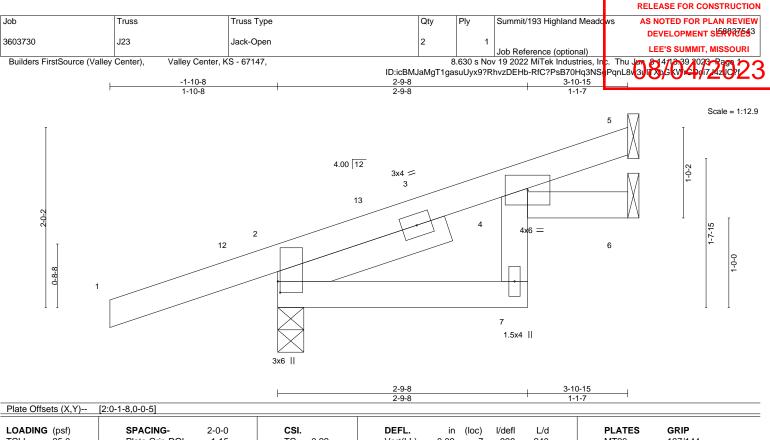
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 5, 110 lb uplift at joint 2 and 6 lb uplift at joint 6.

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) 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.







LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.22	Vert(LL) 0.02	7	>999 2	240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.11	Vert(CT) -0.02	7	>999 1	80		
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.02	6	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MR					Weight: 15 lb	FT = 20%

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2SLIDERLeft 2x4 SPF No.2 2-0-0

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 3-10-15 oc purlins. Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 5=Mechanical, 2=0-3-8, 6=Mechanical

Max Horz 2=78(LC 8) Max Uplift 5=-26(LC 12), 2=-103(LC 8), 6=-9(LC 12) Max Grav 5=82(LC 1), 2=337(LC 1), 6=60(LC 1)

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

NOTES-

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

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

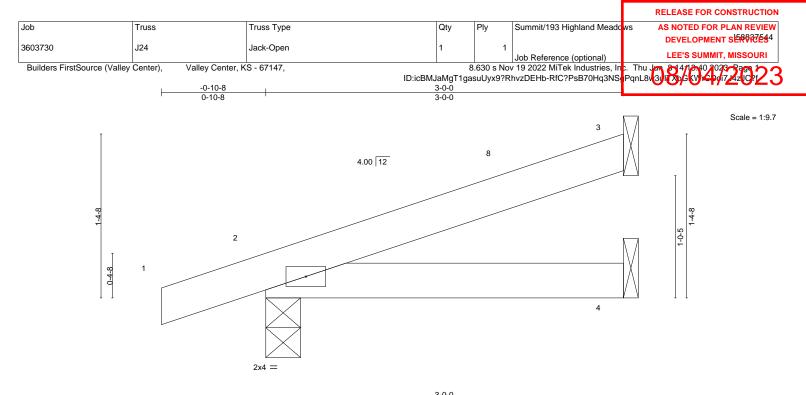
3) Refer to girder(s) for truss to truss connections.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 5, 103 lb uplift at joint 2 and 9 lb uplift at joint 6.

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.







LOADING	u /	SPACING-	2-0-0	CSI.		DEFL.		(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	-0.00	4-7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.01	4-7	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-MP						Weight: 8 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

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

Max Horz 2=50(LC 8)

Max Uplift 3=-30(LC 12), 2=-54(LC 8)

Max Grav 3=83(LC 1), 2=203(LC 1), 4=52(LC 3)

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

NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 2-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

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

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 3 and 54 lb uplift at joint 2.

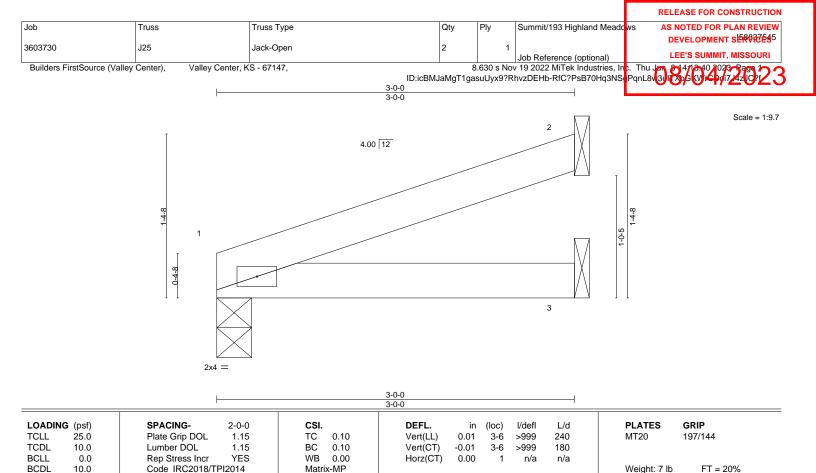
5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 3-0-0 oc purlins.

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





BRACING-

TOP CHORD

BOT CHORD

LUMBER-	
---------	--

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

REACTIONS. 1=0-3-8, 2=Mechanical, 3=Mechanical (size)

Max Horz 1=36(LC 8)

Max Uplift 1=-17(LC 8), 2=-31(LC 8)

Max Grav 1=132(LC 1), 2=87(LC 1), 3=53(LC 3)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

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

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 1 and 31 lb uplift at joint 2.

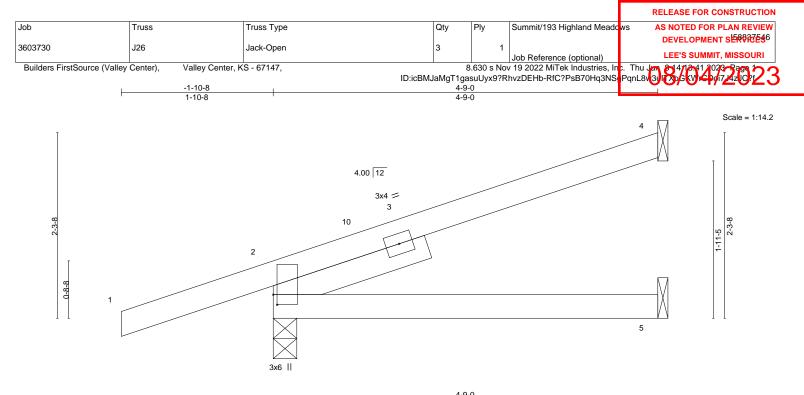
5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 3-0-0 oc purlins.

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





		1	4-9-0	
		T	4-9-0	
Plate Offsets (X,	Y) [2:0-1-8,0-0-9]			
· ·				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP	
TCLL 25.0	Plate Grip DOL 1.15	TC 0.24	Vert(LL) 0.03 5-8 >999 240 MT20 197/144	
TCDL 10.0	Lumber DOL 1.15	BC 0.17	Vert(CT) -0.04 5-8 >999 180	
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.01 4 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS	Weight: 16 lb FT = 20%	

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

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied. Rigid ceiling directly applied.

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical

Max Horz 2=88(LC 8) Max Uplift 4=-52(LC 12), 2=-106(LC 8)

Max Grav 4=132(LC 1), 2=368(LC 1), 5=80(LC 3)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 4-8-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

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

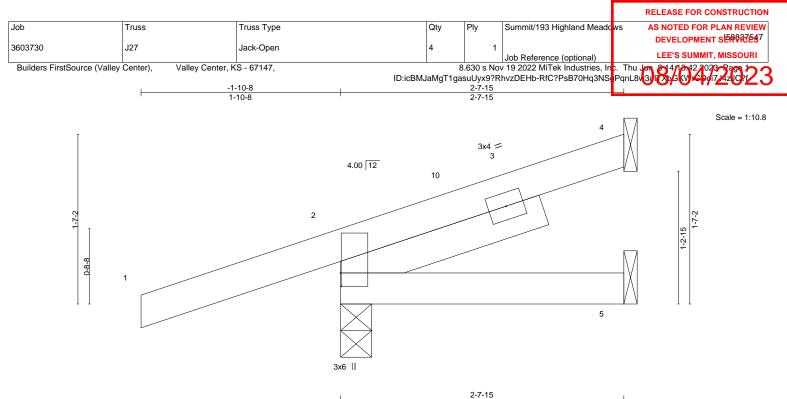
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 4 and 106 lb uplift at joint 2.

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







			2-7-15
Plate Offsets (X,Y	- [2:0-1-8,0-0-1]		
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.24	Vert(LL) -0.00 8 >999 240 MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) -0.00 5-8 >999 180
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 2 n/a n/a
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP	Weight: 11 lb FT = 20%

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

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 2-7-15 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical

Max Horz 2=62(LC 8) Max Uplift 4=-24(LC 12), 2=-104(LC 8)

Max Grav 4=52(LC 1), 2=296(LC 1), 5=38(LC 3)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 2-7-3 zone; cantilever left and right

exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

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

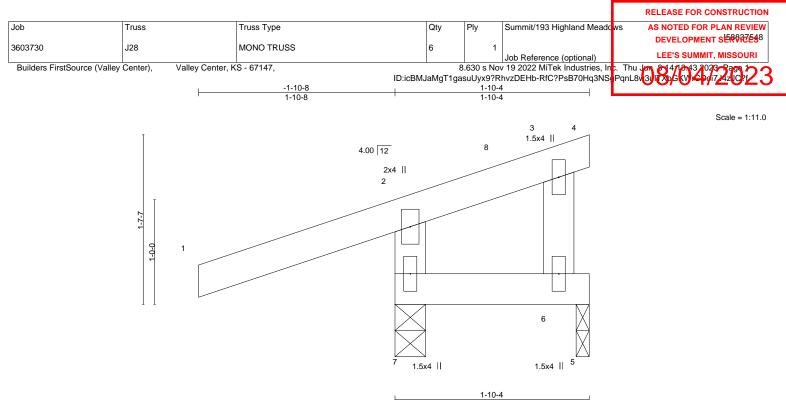
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 4 and 104 lb uplift at joint 2.

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.



June 12,2023





1-10-4								
SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
Plate Grip DOL 1.15	TC 0.28	Vert(LL)	0.00 6	>999	240	MT20	197/144	
Lumber DOL 1.15	BC 0.05	Vert(CT)	0.00 7	>999	180			
Rep Stress Incr YES	WB 0.01	Horz(CT)	0.00	n/a	n/a			
Code IRC2018/TPI2014	Matrix-MS					Weight: 8 lb	FT = 20%	
	Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYES	Plate Grip DOL 1.15 TC 0.28 Lumber DOL 1.15 BC 0.05 Rep Stress Incr YES WB 0.01	Plate Grip DOL 1.15 TC 0.28 Vert(LL) Lumber DOL 1.15 BC 0.05 Vert(CT) Rep Stress Incr YES WB 0.01 Horz(CT)	Plate Grip DOL 1.15 TC 0.28 Vert(LL) 0.00 6 Lumber DOL 1.15 BC 0.05 Vert(CT) 0.00 7 Rep Stress Incr YES WB 0.01 Horz(CT) 0.00	Plate Grip DOL 1.15 TC 0.28 Vert(LL) 0.00 6 >999 Lumber DOL 1.15 BC 0.05 Vert(CT) 0.00 7 >999 Rep Stress Incr YES WB 0.01 Horz(CT) 0.00 n/a	Plate Grip DOL 1.15 TC 0.28 Vert(LL) 0.00 6 >999 240 Lumber DOL 1.15 BC 0.05 Vert(CT) 0.00 7 >999 180 Rep Stress Incr YES WB 0.01 Horz(CT) 0.00 n/a n/a	Plate Grip DOL 1.15 TC 0.28 Vert(LL) 0.00 6 >999 240 MT20 Lumber DOL 1.15 BC 0.05 Vert(CT) 0.00 7 >999 180 Rep Stress Incr YES WB 0.01 Horz(CT) 0.00 n/a n/a	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

 WEBS
 2x4 SFF No.2

 REACTIONS.
 (size)
 7=0-3

NS. (size) 7=0-3-8, 5=0-1-8 Max Horz 7=41(LC 11) Max Uplift 7=-115(LC 8), 5=-21(LC 1) Max Grav 7=301(LC 1), 5=27(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-7=-273/197

NOTES-

 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) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 1-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 115 lb uplift at joint 7 and 21 lb uplift at joint 5.

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.

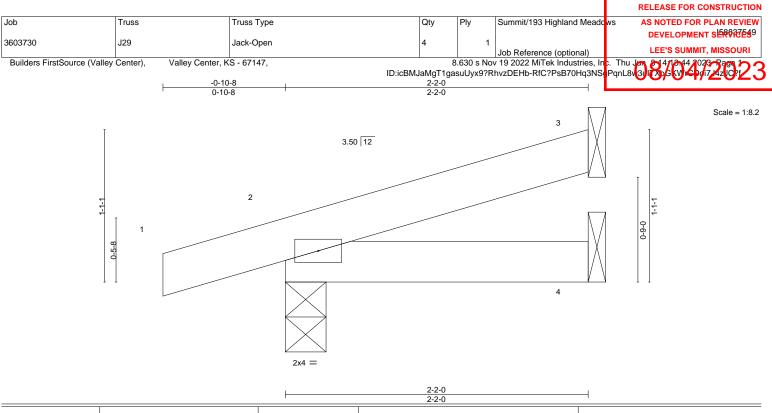


Structural wood sheathing directly applied or 1-10-4 oc purlins,

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

except end verticals.

16023 Swingley Ridge Rd Chesterfield, MO 63017



LOADIN	G (psf)	SPACING- 2-0	-0 CSI .	DEFL.	in ((loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.	15 TC 0.05	Vert(LL) -0	0.00	7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL 1.	15 BC 0.03	Vert(CT) -(0.00	7	>999	180		
BCLL	0.0	Rep Stress Incr YI	S WB 0.00	Horz(CT) (0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI201	4 Matrix-MP						Weight: 6 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

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

Max Horz 2=35(LC 8)

Max Uplift 3=-21(LC 12), 2=-51(LC 8)

Max Grav 3=57(LC 1), 2=169(LC 1), 4=36(LC 3)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

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

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 3 and 51 lb uplift at joint 2.

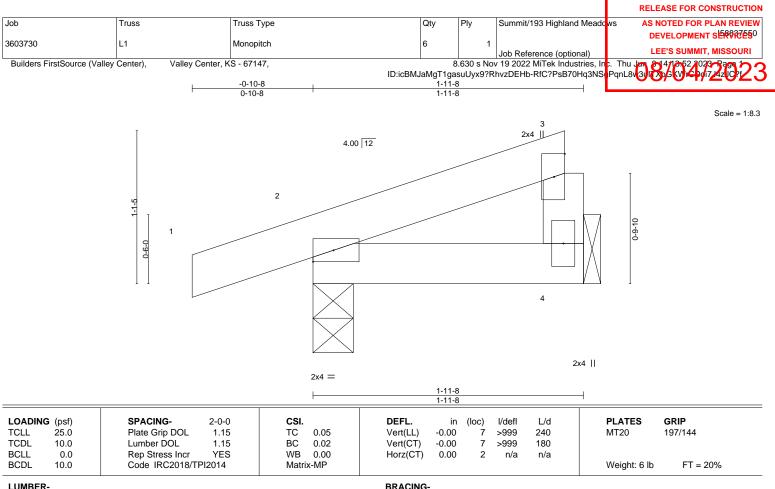
5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

OF MISS TE SCOTT M. SEVIER NUMBER õ PE-2001018807 SSIONAL E June 12,2023

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

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





TOP CHORD

BOT CHORD

LUMBER-

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

- 2x4 SPF No.2
- REACTIONS. 4=Mechanical, 2=0-3-8 (size) Max Horz 2=35(LC 11) Max Uplift 4=-14(LC 12), 2=-52(LC 8)

Max Grav 4=67(LC 1), 2=158(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 4 and 52 lb uplift at joint 2
- 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.

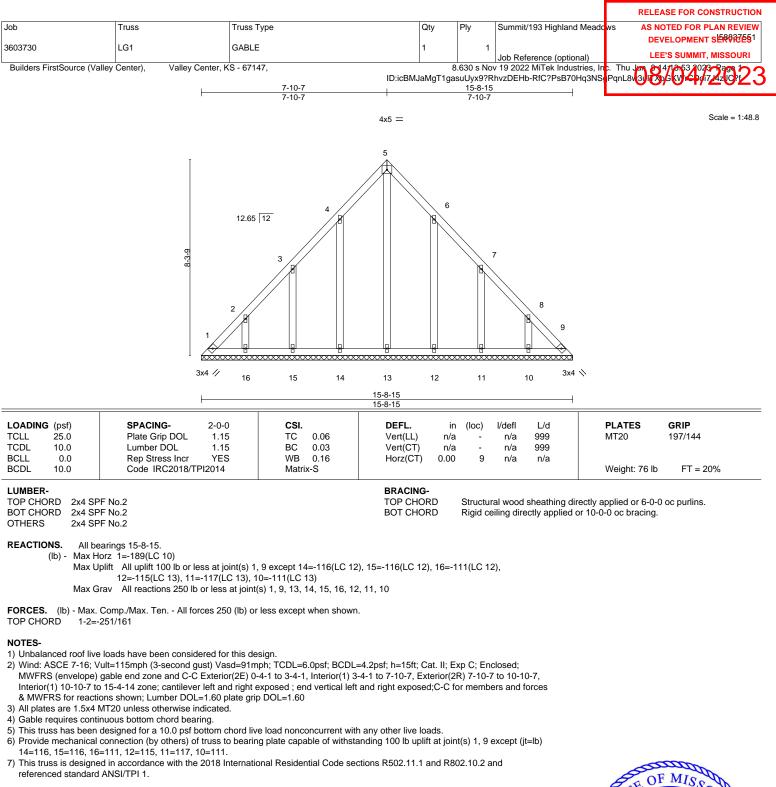


Structural wood sheathing directly applied or 1-11-8 oc purlins,

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

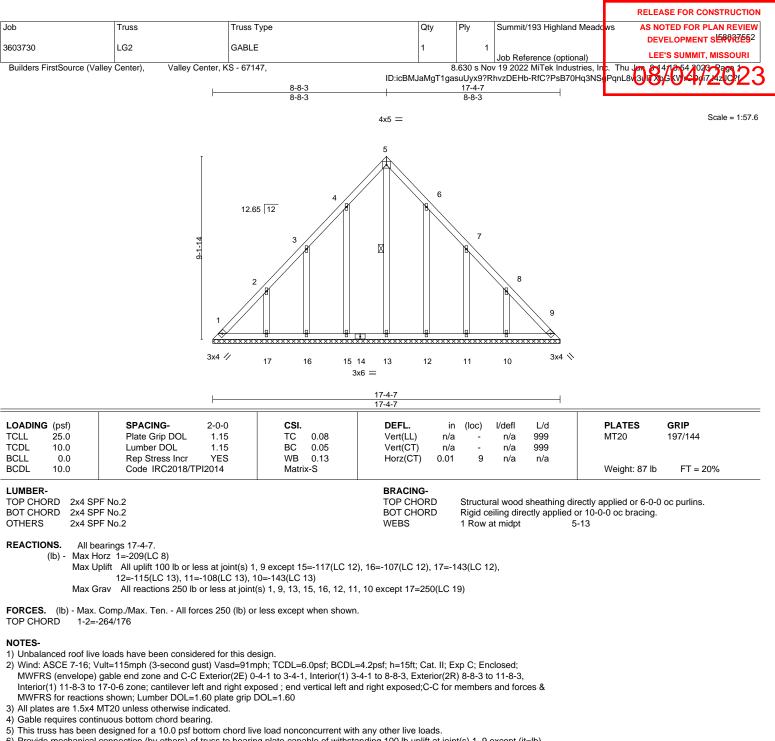
except end verticals.









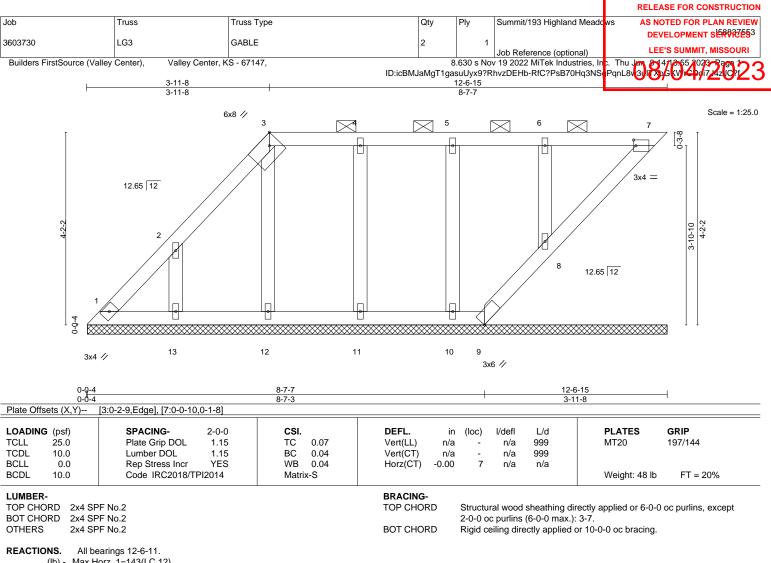


6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9 except (jt=lb) 15=117, 16=107, 17=143, 12=115, 11=108, 10=143.

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.







(lb) -Max Horz 1=143(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 9, 12, 11, 10, 8 except 13=-126(LC 12) Max Grav All reactions 250 lb or less at joint(s) 1, 7, 9, 13, 12, 11, 10, 8

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

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-1 to 3-4-1, Interior(1) 3-4-1 to 3-11-8, Exterior(2R) 3-11-8 to 6-11-8, Interior(1) 6-11-8 to 12-3-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

4) All plates are 1.5x4 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, 7, 9, 12, 11, 10, 8 except (it=lb) 13=126.

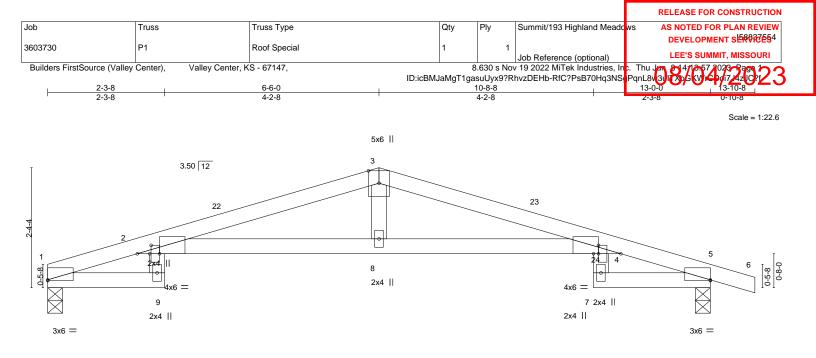
8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 7, 8.

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.



MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



2-3-8	6-6-	0	1	10-8-8	13-0-0	
2-3-8	4-2-	8	1	4-2-8	2-3-8	
Plate Offsets (X,Y)	[1:0-0-0,0-0-3], [2:0-5-4,Edge], [2:0-2-0	,0-0-5], [4:0-5-4,Edge], [4:	0-2-0,0-1-3], [5:Edge,0-0	0-3]		
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.85 BC 0.95 WB 0.10 Matrix-AS	DEFL. ir Vert(LL) -0.30 Vert(CT) -0.57 Horz(CT) 0.27	9 >273 180	PLATES MT20 Weight: 40 lb	GRIP 197/144 FT = 20%
BOT CHORD 2x4 S 2-4: 2	P 2400F 2.0E PF No.2 *Except* x4 SPF 1650F 1.5E PF No.2		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing Rigid ceiling directly applie		
Max I Max I	ze) 1=0-3-8, 5=0-3-8 Horz 1=-38(LC 17) Jplift 1=-79(LC 8), 5=-112(LC 9) Grav 1=594(LC 1), 5=659(LC 1)					
TOP CHORD 2-3= BOT CHORD 2-8=	. Comp./Max. Ten All forces 250 (lb) of 1784/508, 3-4=-1784/501 414/1724, 4-8=-414/1724 55/397	r 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) gable end zone and C-C Exterior(2E) 0-0-0 to 2-9-1, Interior(1) 2-9-1 to 6-6-0, Exterior(2R) 6-6-0 to 9-6-0, Interior(1) 9-6-0 to 13-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 5=112.

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) 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.





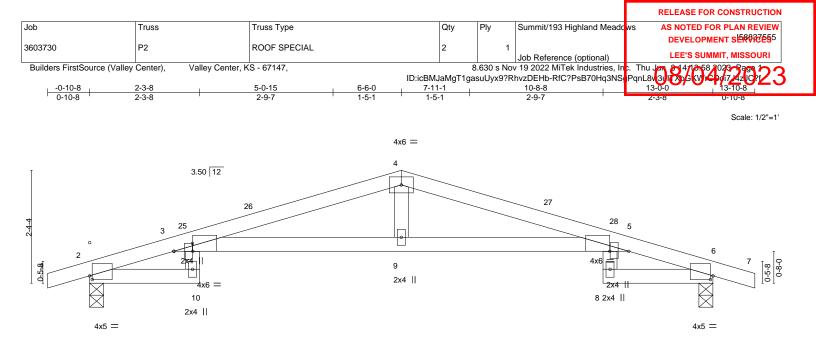


Plate Offsets (X,Y)	2-3-8 2-3-8 [2:0-0-10,0-0-15], [3:0-4-12,Edge], [3:0	6-6-0 4-2-8 -2-0 0-4-10] [3:0-2-3 1-9-1]	[5:0-4-12 Edge] [4-	-8-8 2-8 -0-15]	13-0-0 2-3-8	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.84 BC 0.74 WB 0.12 Matrix-MS	DEFL. Vert(LL) - Vert(CT) -	in (loc 0.28 1 0.54 1) l/defl L/d 0 >549 240	PLATES MT20 Weight: 45 lb	GRIP 197/144 FT = 20%
BOT CHORD 2x4 S 3-5: 2	P 2400F 2.0E PF No.2 *Except* x4 SP 2400F 2.0E PF No.2		BRACING- TOP CHORD BOT CHORD		ctural wood sheathing d I ceiling directly applied		oc purlins.
Max I	te) 2=0-3-8, 6=0-3-8 Horz 2=34(LC 12) Jplift 2=-112(LC 8), 6=-112(LC 9) Grav 2=657(LC 1), 6=657(LC 1)						
TOP CHORD 3-4= BOT CHORD 3-9=	. Comp./Max. Ten All forces 250 (lb) c -1762/488, 4-5=-1762/492 -402/1691, 5-9=-402/1691 -74/473	r 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) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-6-0, Exterior(2R) 6-6-0 to 9-6-0, Interior(1) 9-6-0 to 13-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

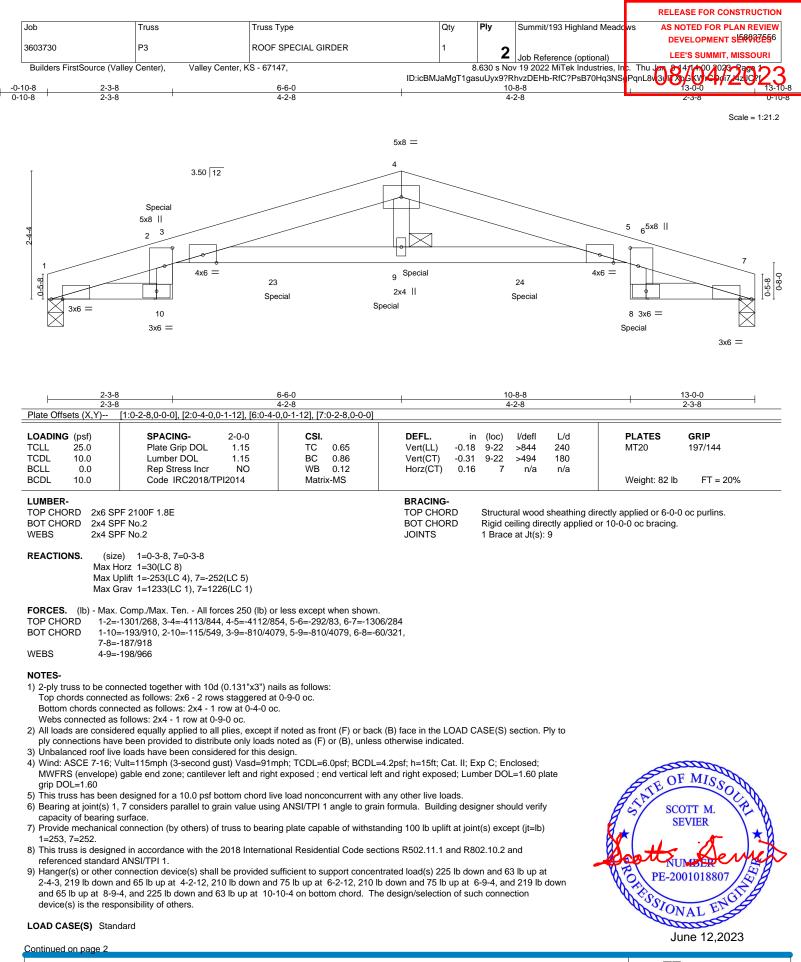
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=112, 6=112.

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.









							RELEASE FOR CONSTRUCTION
[Job	Truss	Truss Type	Qty	Ply	Summit/193 Highland Meado	ws AS NOTED FOR PLAN REVIEW
							DEVELOPMENT SERVICES
	3603730	P3	ROOF SPECIAL GIRDER	1		Job Reference (optional)	LEE'S SUMMIT, MISSOURI
	Builders FirstSource (Valley	Center), Valley Center, K	S - 67147,		3.630 s Nov	v 19 2022 MiTek Industries, In	
			ID:icBM.	JaMgT1ga	suUyx9?R	hvzDEHb-RfC?PsB70Hq3NS	

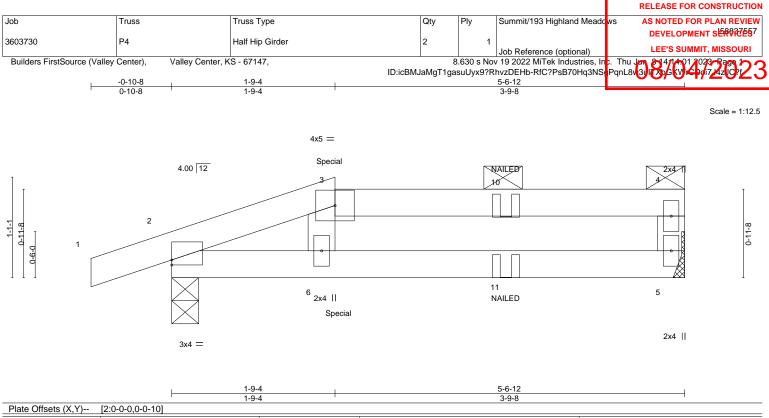
LOAD CASE(S) Standard

 Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-4=-70, 4-7=-70, 10-11=-20, 17-20=-20, 8-14=-20 Concentrated Loads (lb)

Vert: 10=-225(B) 9=-421(B) 20=-225(B) 23=-219(B) 24=-219(B)





			1-9-	-4				3-9-8			•
Plate Off	sets (X,Y)	[2:0-0-0,0-0-10]									
	G (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC 0.28	Vert(LL)	-0.09	5-6	>727	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0.69	Vert(CT)	-0.17	5-6	>379	180		
BCLL	0.0	Rep Stress Incr	NO	WB 0.03	Horz(CT)	0.02	2	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matrix-MP						Weight: 15 lb	FT = 20%
LUMBER					BRACING						
TOP CHO	ORD 2x4 S	SPF No.2			TOP CHO	RD	Structu	iral wood	l sheathing di	rectly applied or 5-6-1	2 oc purlins,

BOT CHORD

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

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

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

REACTIONS. (size) 5=Mechanical, 2=0-3-8

Max Horz 2=29(LC 7) Max Uplift 5=-42(LC 4), 2=-78(LC 4)

Max Grav 5=245(LC 1), 2=318(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 3-6=-251/74

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) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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) 5, 2.

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

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

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

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 36 lb down and 58 lb up at 1-9-4 on top chord, and 23 lb down at 1-9-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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

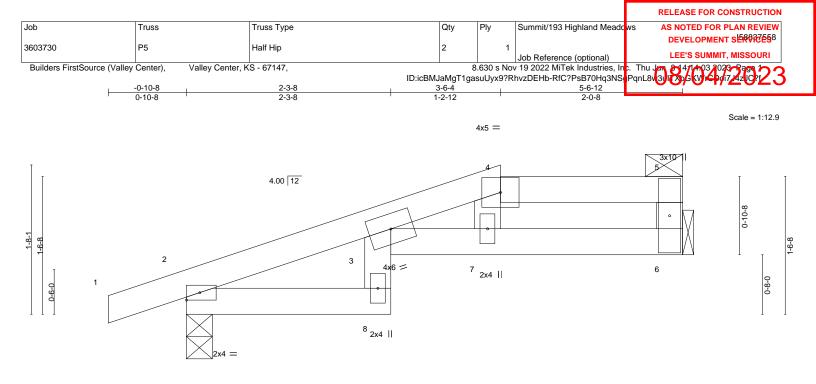
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-3=-70, 3-4=-70, 5-7=-20 Concentrated Loads (lb) Vert: 6=-8(B) 11=-6(B)



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		2-3-8 2-3-8	3-6-4 1-2-12	5-6-12 2-0-8	
LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.55 BC 0.61	DEFL. in (loc) Vert(LL) 0.11 3-7 Vert(CT) -0.18 3-7	7 >603 240	PLATES GRIP MT20 197/144
BCLL 0.0 BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.05 Matrix-AS	Horz(CT) 0.08 6		Weight: 16 lb FT = 20%
LUMBER-			BRACING-		

TOP CHORD

BOT CHORD

2-0-0 oc purlins: 4-5.

Rigid ceiling directly applied.

LUMBER-

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

2x4 SPF No.2 REACTIONS.

- 6=Mechanical, 2=0-3-8 (size) Max Horz 2=41(LC 8) Max Uplift 6=-45(LC 8), 2=-75(LC 8) Max Grav 6=239(LC 1), 2=310(LC 1)
- FORCES. (Ib) Max. Comp./Max. Ten. All forces 250 (Ib) or less except when shown. 4-7=-365/262 WEBS

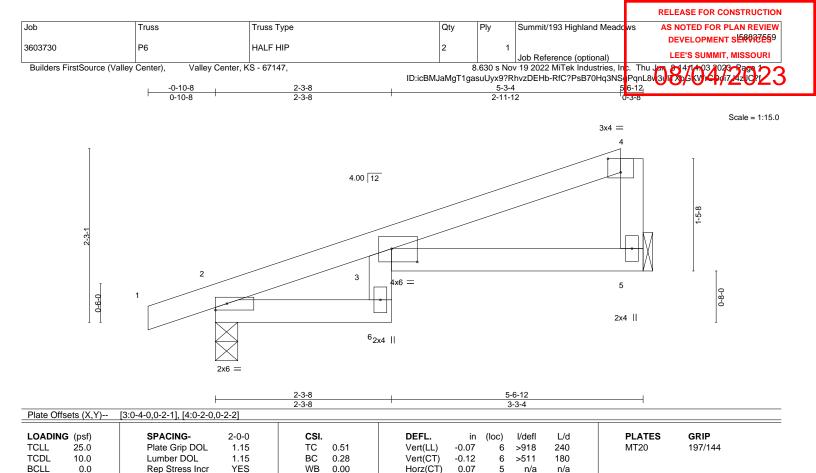
NOTES-

- 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) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-12, Interior(1) 2-1-12 to 3-6-4, Exterior(2E) 3-6-4 to 5-5-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 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) 6, 2.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) 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





BRACING-

TOP CHORD

BOT CHORD

BCDL

WEBS

LUMBER-

BOT CHORD

REACTIONS.

10.0

TOP CHORD 2x4 SPF No.2

2x4 SPF No.2

2x4 SPF No.2

Max Horz 2=78(LC 8)

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

Code IRC2018/TPI2014

(size) 5=Mechanical, 2=0-3-8

Max Uplift 5=-55(LC 12), 2=-70(LC 8) Max Grav 5=230(LC 1), 2=316(LC 1)

NOTES-

 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) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-12, Interior(1) 2-1-12 to 5-5-0 zone; cantilever left and right

Matrix-R

- exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2.
- 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.



FT = 20%

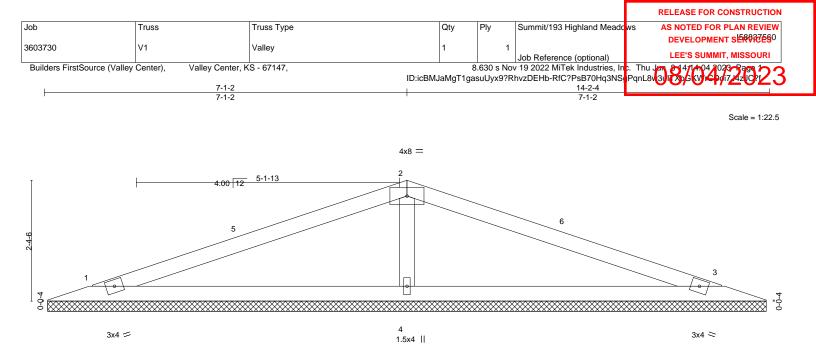
Weight: 16 lb

Structural wood sheathing directly applied or 5-6-12 oc purlins,

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

except end verticals.





0-0 ₁ 12			14-2-4					
0-0-12			14-1-8					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.55	Vert(LL) n/a	-	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.31	Vert(CT) n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr YES	WB 0.06	Horz(CT) 0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S					Weight: 33 lb	FT = 20%
LUMBER-		1	BRACING-				1	

TOP CHORD

BOT CHORD

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

REACTIONS. 1=14-0-12, 3=14-0-12, 4=14-0-12 (size) Max Horz 1=33(LC 12) Max Uplift 1=-49(LC 8), 3=-53(LC 13), 4=-63(LC 8) Max Grav 1=246(LC 25), 3=246(LC 26), 4=633(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. 2-4=-448/206WEBS

NOTES-

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) gable end zone and C-C Exterior(2E) 0-11-5 to 3-11-5, Interior(1) 3-11-5 to 7-1-2, Exterior(2R) 7-1-2 to 10-1-2, Interior(1) 10-1-2 to 13-2-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Gable requires continuous bottom chord bearing.

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

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

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

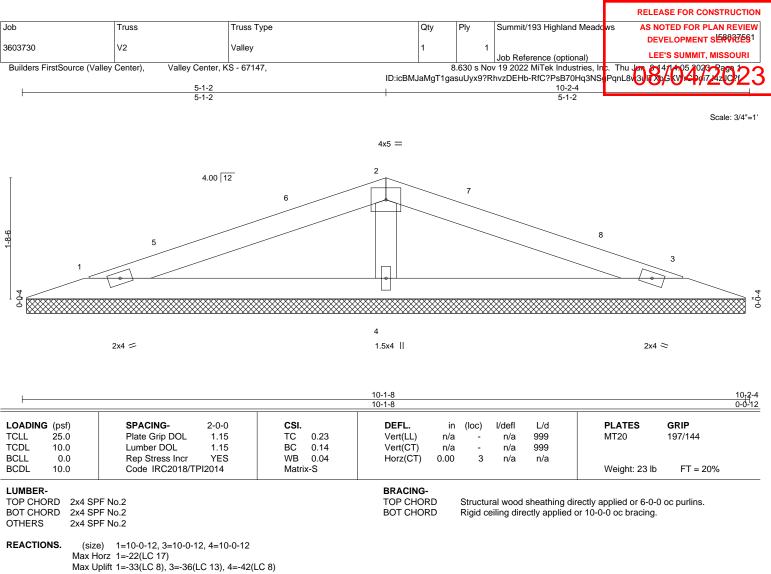
Structural wood sheathing directly applied or 6-0-0 oc purlins.

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



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

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Max Grav 1=166(LC 25), 3=166(LC 26), 4=427(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 2-4=-302/195

NOTES-

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) gable end zone and C-C Exterior(2E) 0-11-5 to 3-11-5, Interior(1) 3-11-5 to 5-1-2, Exterior(2R) 5-1-2 to 8-1-2, Interior(1) 8-1-2 to 9-2-15 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Gable requires continuous bottom chord bearing.

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

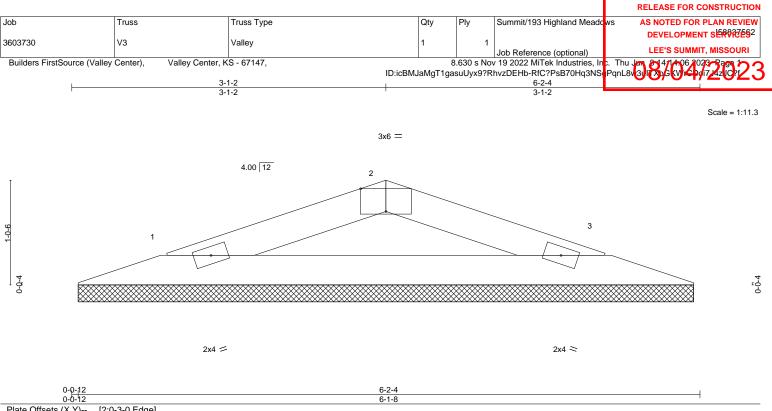
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4. 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and

referenced standard ANSI/TPI 1.





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



OADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
CLL 25.0	Plate Grip DOL 1.15	TC 0.10	Vert(LL) n/a - n/a 999	MT20 197/144
CDL 10.0	Lumber DOL 1.15	BC 0.20	Vert(CT) n/a - n/a 999	
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 3 n/a n/a	
3CDL 10.0	Code IRC2018/TPI2014	Matrix-P		Weight: 12 lb FT = 20%

BOT CHORD

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

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

REACTIONS. (size) 1=6-0-12, 3=6-0-12 Max Horz 1=12(LC 12) Max Uplift 1=-28(LC 8), 3=-28(LC 9) Max Grav 1=194(LC 1), 3=194(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-253/215, 2-3=-253/225

NOTES-

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) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Gable requires continuous bottom chord bearing.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

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





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

