

04/23/2021

MiTek USA, Inc.

16023 Swingley Ridge Rd Chesterfield, MO 63017 314-434-1200

Re: 2742340 Roeser/1487 Winterset

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource (Valley Center).

Pages or sheets covered by this seal: I45732318 thru I45732449

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

Missouri COA: Engineering 001193

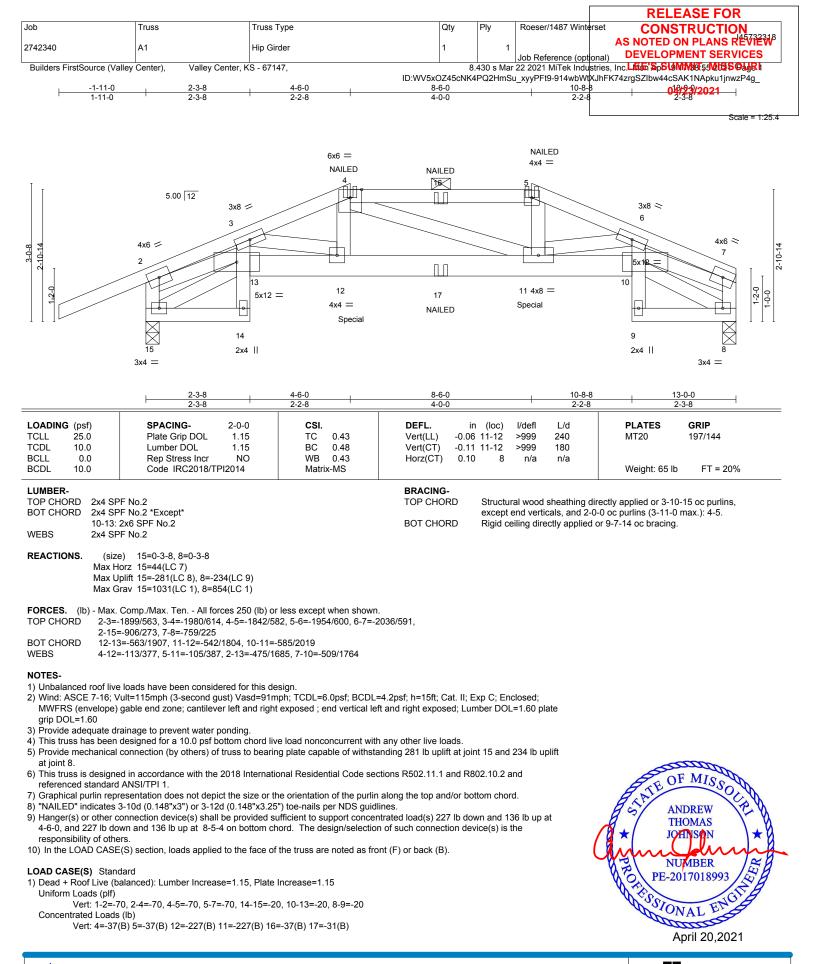


Johnson, Andrew

April 20,2021

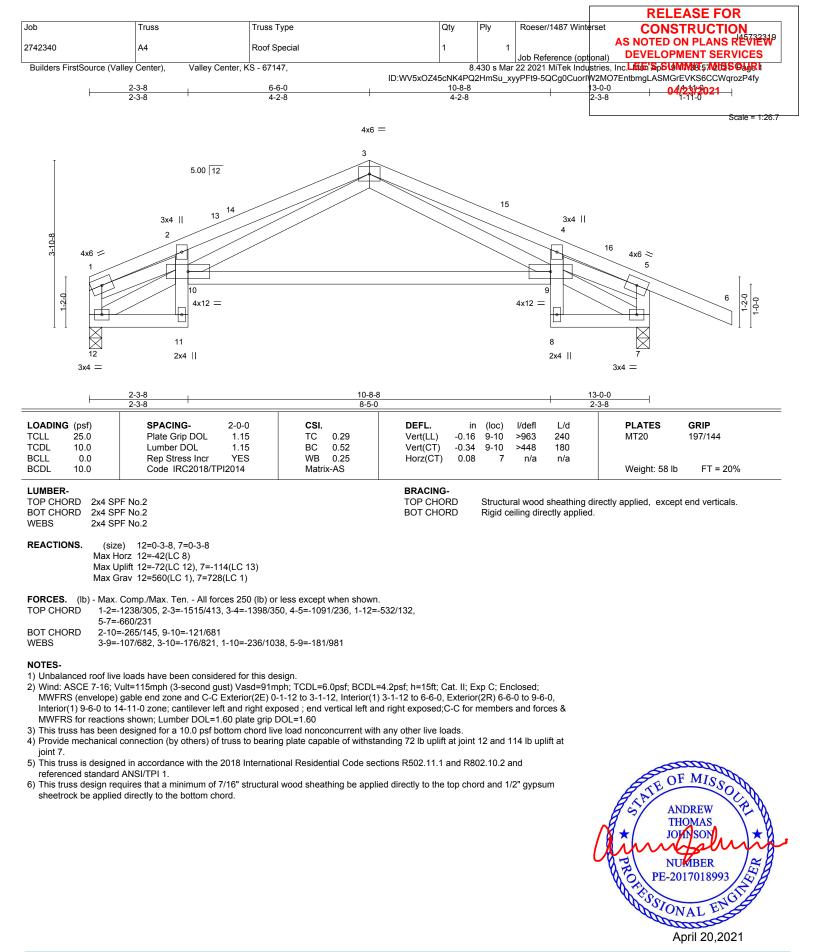
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which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

,Engineer

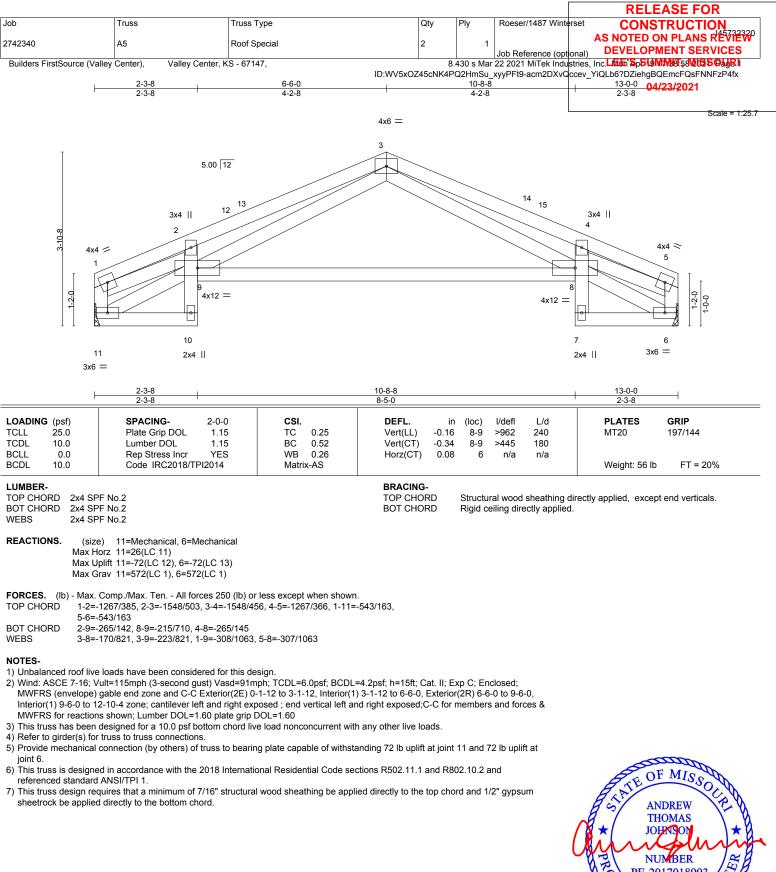


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 system. See MSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

NITEK* 16023 Swingley Ridge Rd Chesterfield, MO 63017



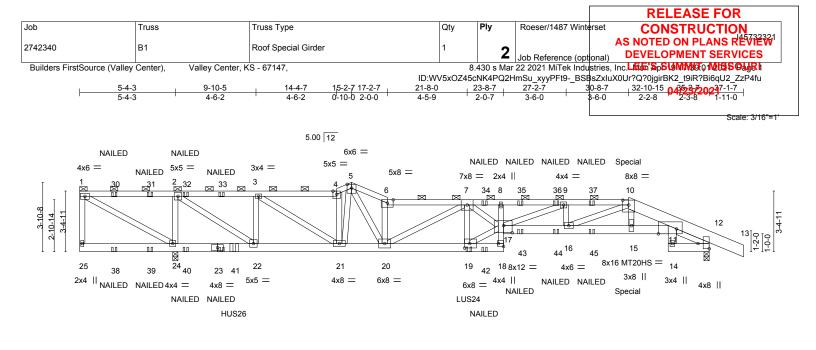








MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



	5-2-7 5-4-3 9-10-5 5-2-7 0-1-12 4-6-2	14-4-7 17-2-7 4-6-2 2-10-0	21-8-0 4-5-9	23-8-7	27-2-7 3-6-0	30-8-7 3-6-0		-2-7 3-8
Plate Offsets (X,Y) [6:0-3-14,Edge], [10:0-4-0,0-3-4], [11:1-0-2,Edge], [12:Edge,0-7-8], [17:0-5-12,0-4-12], [18:Edge,0-3-8], [19:0-3-8,0-3-0]								
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 NO Code IRC2018/TPI2014	CSI. TC 0.69 BC 0.74 WB 0.78 Matrix-MS	DEFL. Vert(LL) -0. Vert(CT) -0. Horz(CT) 0.		l/defl L/c >964 240 >533 180 n/a n/a		PLATES MT20 MT20HS Weight: 381 lb	GRIP 197/144 148/108 FT = 20%
10-13: BOT CHORD 2x6 SP 8-18: 2 WEBS 2x4 SP	PF No.2 *Except* 2x8 SP 2400F 2.0E PF No.2 *Except* 2x4 SPF No.2, 11-17: 2x6 SPF 2100F 1. PF No.2 2x4 SPF No.2 -t 2-0-1	8E	BRACING- TOP CHORD BOT CHORD	except Rigid ce	end verticals, a	and 2-0-0 of pplied or 10	y applied or 4-11-1 c purlins (3-3-8 ma)-0-0 oc bracing,	ax.): 1-4, 6-10.
Max H Max U	te) 12=0-3-8, 24=0-3-8 Horz 24=-123(LC 6) Iplift 12=-542(LC 9), 24=-745(LC 4) Brav 12=2206(LC 1), 24=3417(LC 1)							
TOP CHORD 1-2=- 6-7=- 11-12 BOT CHORD 22-24 16-1 WEBS 1-24= 4-21= 7-19=	. Comp./Max. Ten All forces 250 (lb) o -172/381, 2-3=-2693/498, 3-4=-4131/78 -5606/1104, 7-8=-9716/2109, 8-9=-9904 2=-1675/432 4=-381/243, 21-22=-381/2693, 20-21=-6 (17=-1798/8147, 15-16=-1310/5615, 11-1 =-473/188, 2-24=-2670/628, 2-22=-640/ =-1958/351, 5-21=-177/1088, 5-20=-754 -2463/548, 17-19=-1261/6384, 7-17=-8 6=-532/2763	7, 4-5=-4450/850, 5-6=-5 1/2155, 9-10=-8147/1893, 3/22/3825, 19-20=-1319/66 5=-1305/5586, 11-14=-95 3692, 3-22=-1348/295, 3- 1/3486, 6-20=-2518/539, 7	990/1197, 10-11=-5691/1407, 323, 18-19=-205/980, 3/448 21=-343/1709, -20=-1268/358,					
Top chords connect Bottom chords conn Webs connected as 2) All loads are conside ply connections have 3) Unbalanced roof live 4) Wind: ASCE 7-16; V MWFRS (envelope) grip DOL=1.60 5) Provide adequate dr 6) All plates are MT20 7) This truss has been 8) Provide mechanical at joint 24.	nnected together with 10d (0.131"x3") na ted as follows: 2x4 - 1 row at 0-7-0 oc, 2 nected as follows: 2x6 - 2 rows staggere follows: 2x4 - 1 row at 0-9-0 oc. ered equally applied to all plies, except re been provided to distribute only loads loads have been considered for this di vult=115mph (3-second gust) Vasd=91m gable end zone; cantilever left and righ rainage to prevent water ponding. plates unless otherwise indicated. I designed for a 10.0 psf bottom chord lin connection (by others) of truss to bearin ed in accordance with the 2018 Internation d ANSI/TPI 1.	x8 - 2 rows staggered at 0 d at 0-9-0 oc, 2x4 - 1 row if noted as front (F) or bac noted as (F) or (B), unles ssign. nph; TCDL=6.0psf; BCDL= t exposed ; end vertical le ve load nonconcurrent with ng plate capable of withsta	at 0-9-0 oc. k (B) face in the LOAE s otherwise indicated. =4.2psf; h=15ft; Cat. II ft and right exposed; L n any other live loads. anding 542 lb uplift at j	; Exp C; En umber DOI oint 12 and	closed; _=1.60 plate 745 lb uplift	Å	THE NOT PE-201	MBER 17018993
WARNING - Verify Design valid for use of a truss system. Before	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	only upon parameters shown, an bility of design parameters and p	d is for an individual building roperly incorporate this desi	g component, r gn into the ove	not erall			



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 oullapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Roeser/1487 Winte	erset CONSTRUCTION AS NOTED ON PLANS REVIEW
2742340	B1	Roof Special Girder	1			
	5.				Job Reference (opt	
Builders FirstSource (Valley	<pre>center), Valley Center, K</pre>	S - 67147,	8	.430 s Mar	22 2021 MiTek Indu	stries, Inc.Litter SpS19MIMBE 1205 OdgBb
		ID:W	V5xOZ45	NK4PQ2H	mSu_xyyPFt9BSI	sZxluX0Ur?Q?0jgirBK2_t9iR?Bi6qU2_ZzP4fu
NOTES-						04/23/2021
10) Graphical purlin repre	sentation does not depict the	size or the orientation of the purlin along the top	and/or b	ottom choi	rd.	-

11) Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent at 8-7-11 from the left end to connect truss(es) to front face df bottom chord, skewed 0.0 deg. to the right, sloping 0.0 deg. down.

12) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent at 21-9-3 from the left end to connect truss(es) to front face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.

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

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

15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 238 lb down and 157 lb up at 30-8-7 on top chord, and 93 lb down and 83 lb up at 30-7-11 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

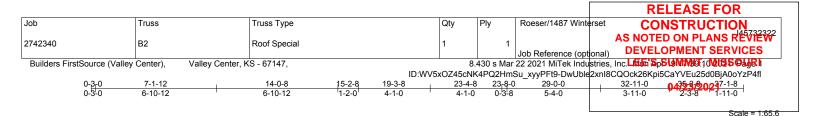
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

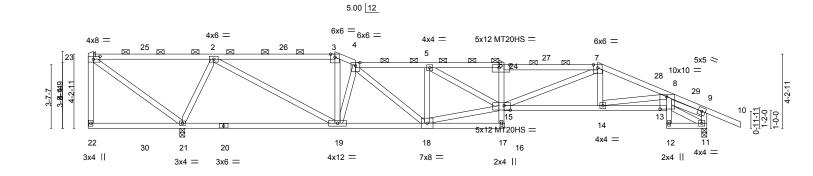
Uniform Loads (plf)

Vert: 1-4=-70, 4-5=-70, 5-6=-70, 6-10=-70, 10-11=-70, 11-13=-70, 18-25=-20, 11-17=-20, 14-26=-20 Concentrated Loads (lb)

Vert: 10=-117(F) 23=-40(F) 19=-558(F) 15=-93(F) 30=-83(F) 31=-83(F) 32=-83(F) 33=-83(F) 34=-63(F) 35=-37(F) 36=-37(F) 37=-37(F) 38=-40(F) 39=-40(F) 40=-40(F) 41=-770(F) 42=-36(F) 43=-31(F) 44=-31(F) 45=-31(F)





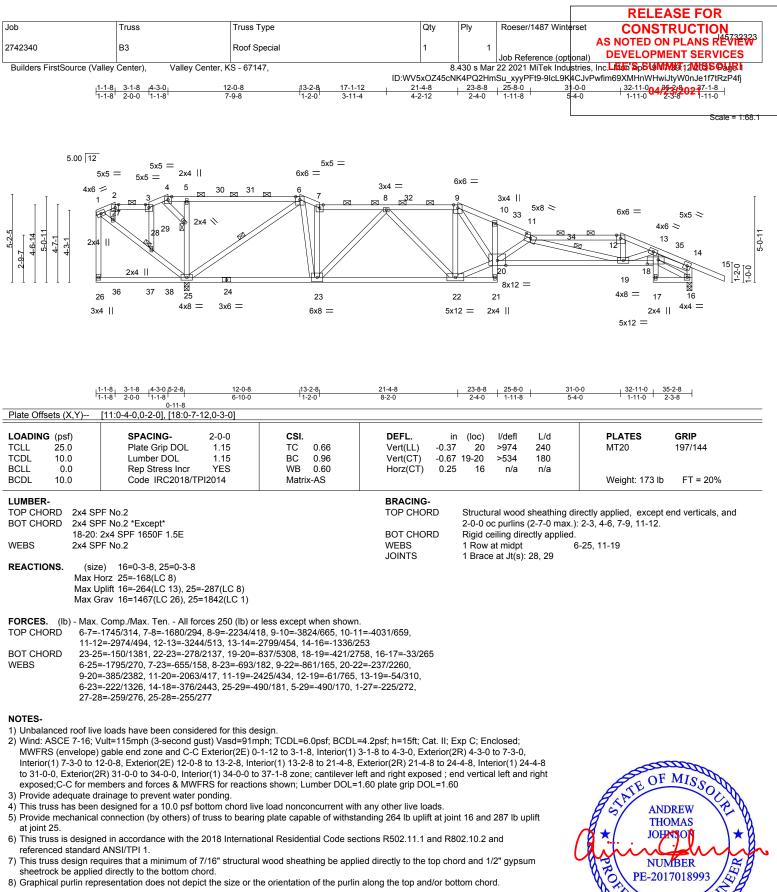


	5-4-4 14-0-8 5-4-4 8-8-4	15-2-8	<u>19-3-8</u> <u>23-8-0</u> 4-1-0 4-4-8	<u>23-8-8 29-0-0</u> 0-0-8 5-3-8	<u>32-11-0</u> <u>35-2-8</u> 3-11-0 <u>2-3-8</u>			
Plate Offsets (X,Y)	[1:0-4-8,0-2-0], [6:Edge,0-2-1], [8:0-4-8		4-1-0 4-4-0	0-0-0 0-0-0	3-11-0 2-3-0			
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 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 0.70 BC 0.74 WB 0.64 Matrix-AS	DEFL. in Vert(LL) -0.26 Vert(CT) -0.48 Horz(CT) 0.19	(loc) l/defi L/d 15 >999 240 15 >750 180 11 n/a n/a	PLATES GRIP MT20 197/144 MT20HS 148/108 Weight: 160 lb FT = 20%			
BOT CHORD 2x4 S WEBS 2x4 S	PF No.2 PF No.2 PF No.2 ze) 21=0-3-8, 11=0-3-8		2	Structural wood sheathing dire 2-0-0 oc purlins (2-2-15 max.) Rigid ceiling directly applied.	ectly applied, except end verticals, and 1: 1-3, 4-6, 6-7, 1-23.			
Max Horz 21=-176(LC 10) Max Uplift 21=-330(LC 8), 11=-258(LC 13) Max Grav 21=1842(LC 1), 11=1446(LC 1) FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.								
6-7= BOT CHORD 19-2 WEBS 1-2' 7-15								

ESSIONAL ET April 20,2021



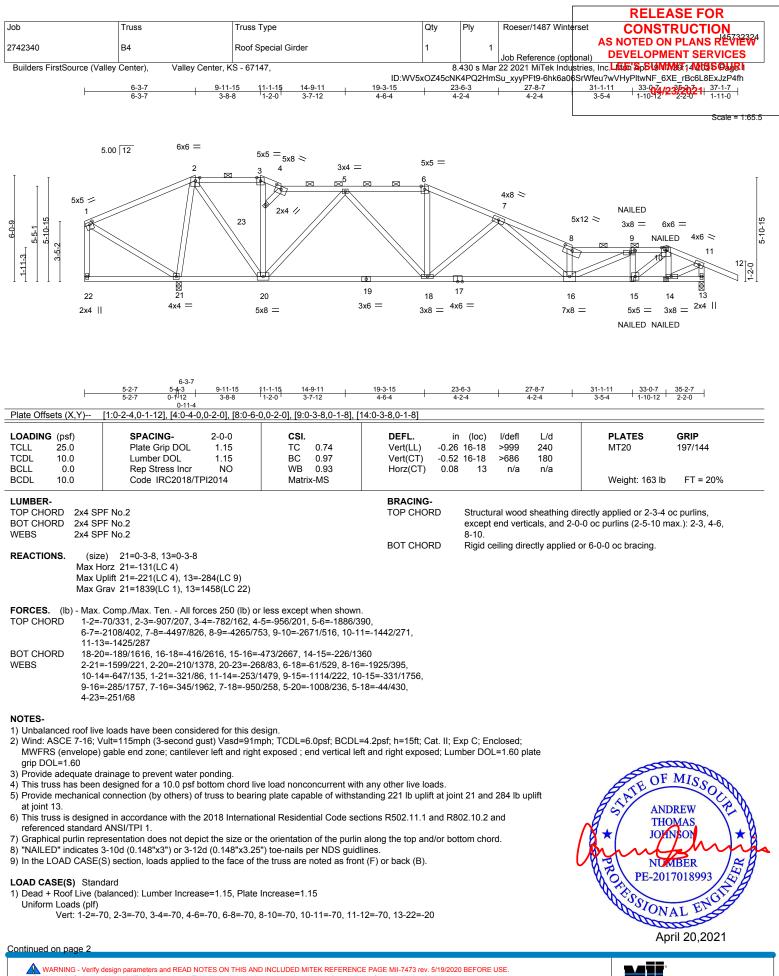
PE-20170189



NUMBER PE-2017018993

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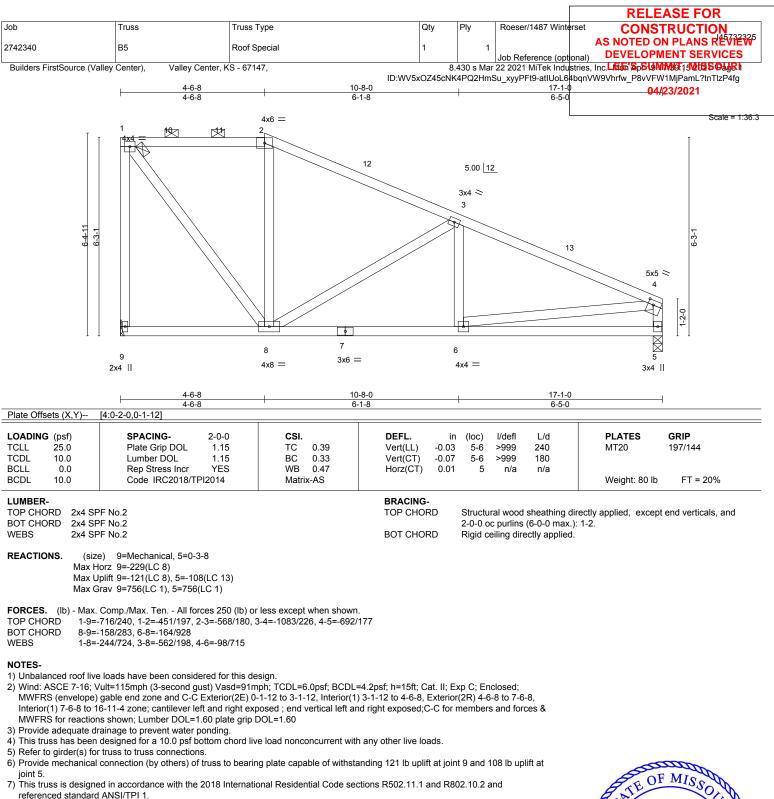




						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Roeser/1487 Winterset	
2742340	B4	Roof Special Girder	1		1	AS NOTED ON PLANS REVIEW
2142040	5,				Job Reference (optional	
Builders FirstSource (Va	alley Center), Va	lley Center, KS - 67147,		8.430 s Ma	ar 22 2021 MiTek Industries	s, Inc.Litter'SpSt9MIMBET1442155ObgRb
			ID:WV5xOZ45cl	NK4PQ2Hr	mSu_xyyPFt9-6hk6a0 <mark>6</mark> SrW	/feu?wVHyPItwNF_6XE_rBc6L8ExJzP4fh
						04/23/2021
LOAD CASE(S) Stan						
Concentrated Loads	s (lb)					

Concentrated Loads (lb) Vert: 14=15(B) 15=-4(B)



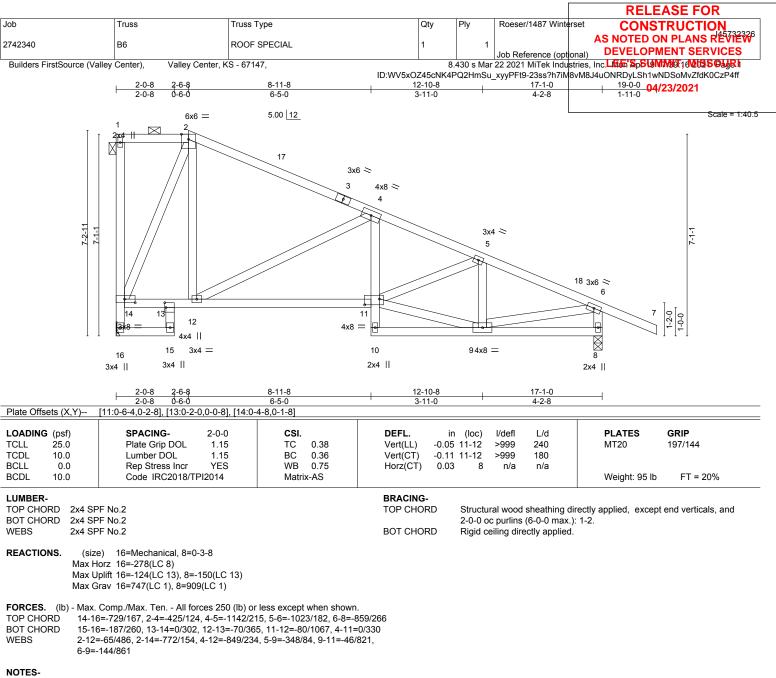


8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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



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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) 0-1-12 to 2-6-8, Exterior(2R) 2-6-8 to 5-6-8, Interior(1) 5-6-8 to 19-0-0 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 124 lb uplift at joint 16 and 150 lb uplift at joint 8.

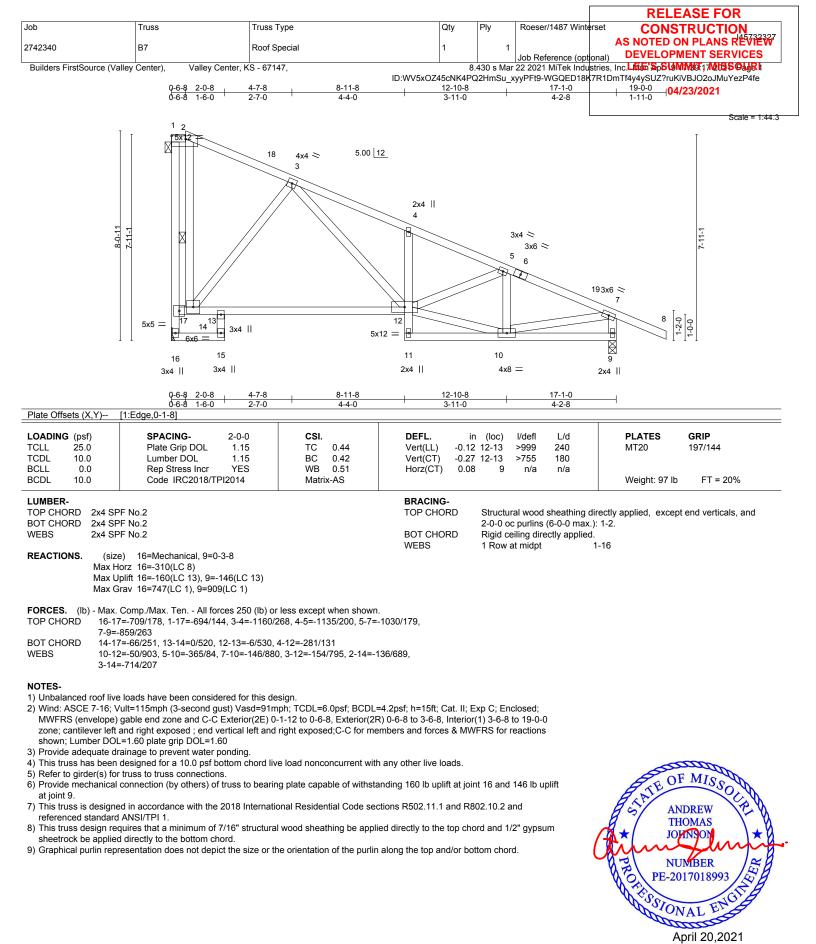
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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.



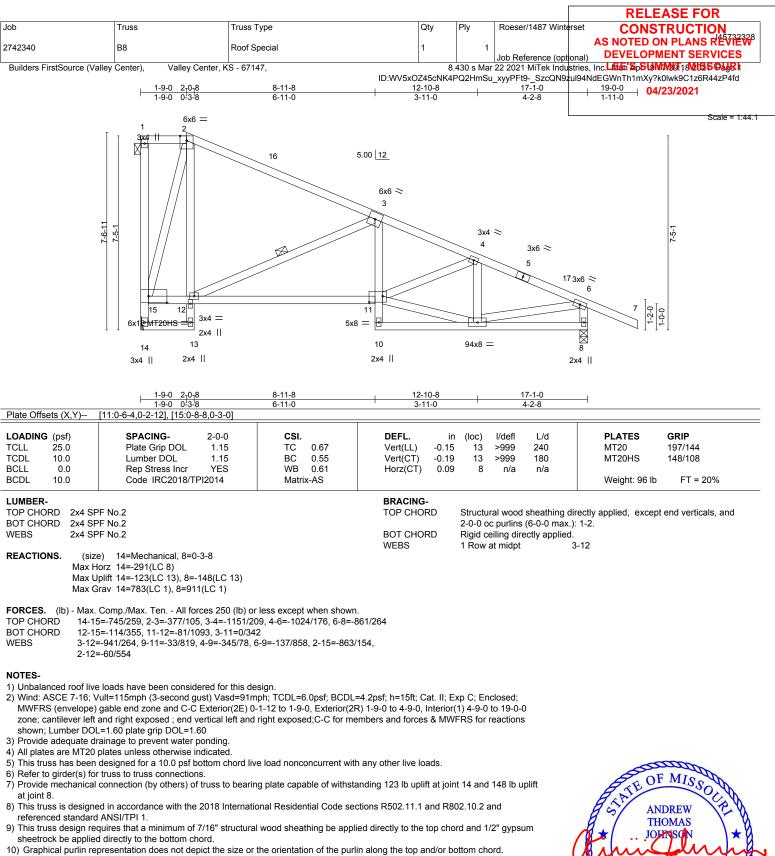






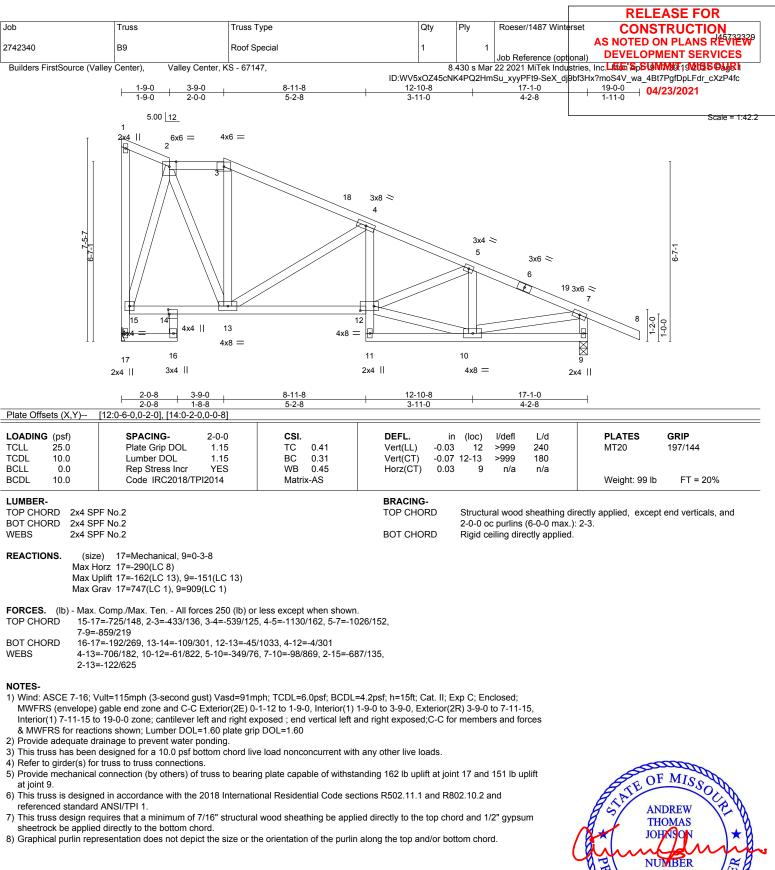
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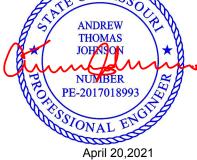




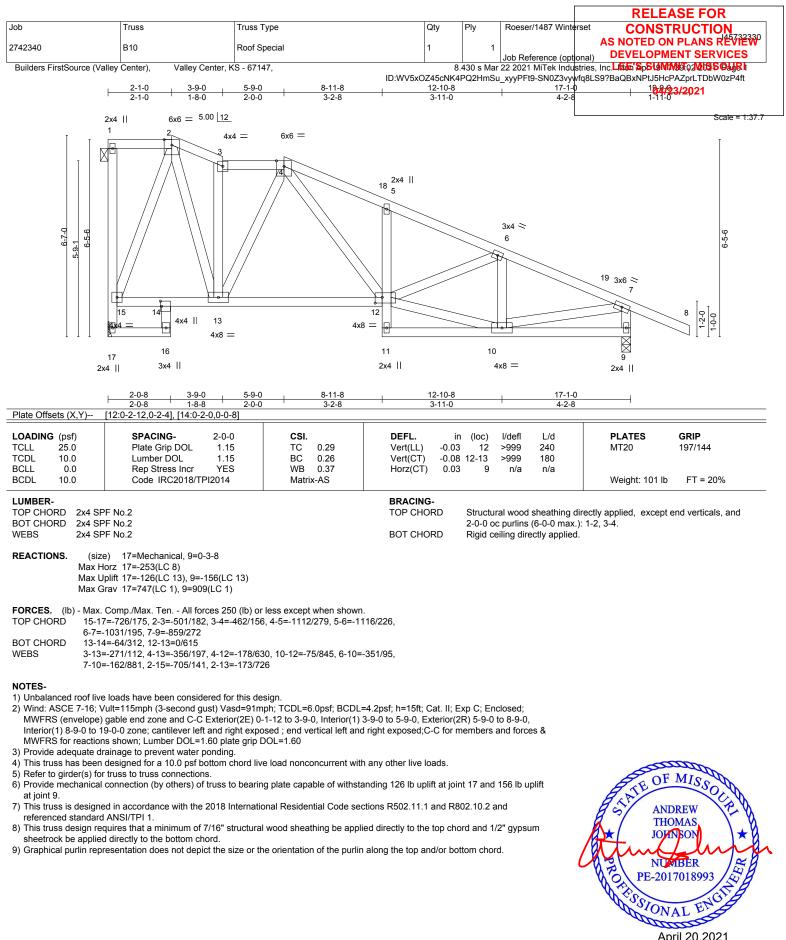


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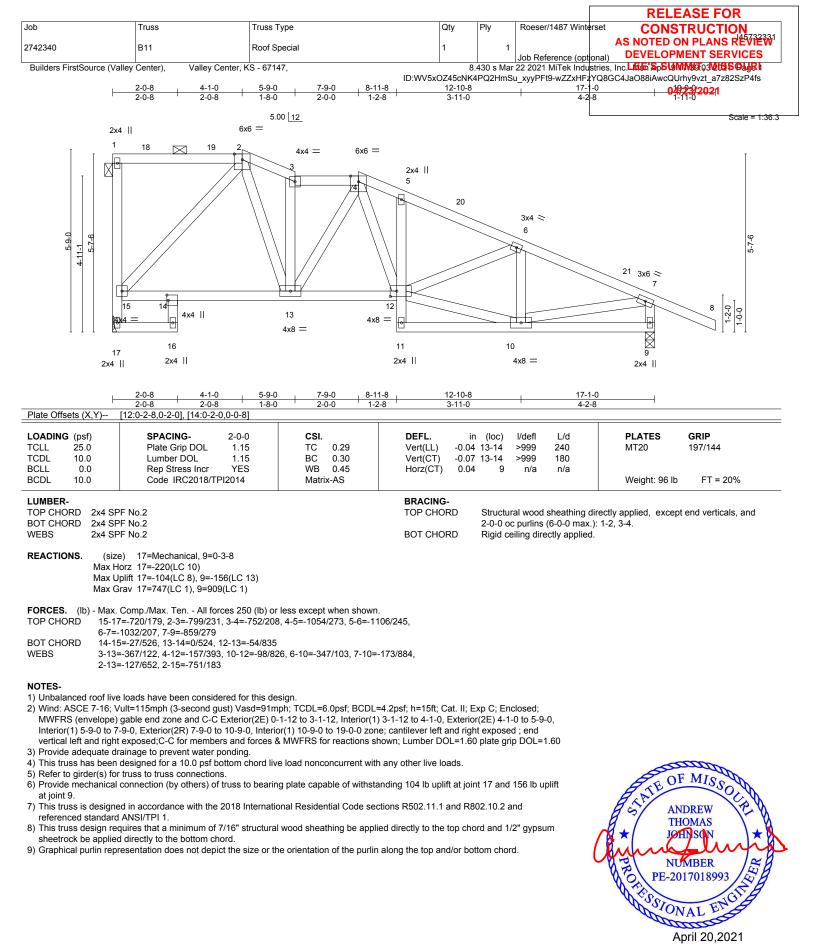




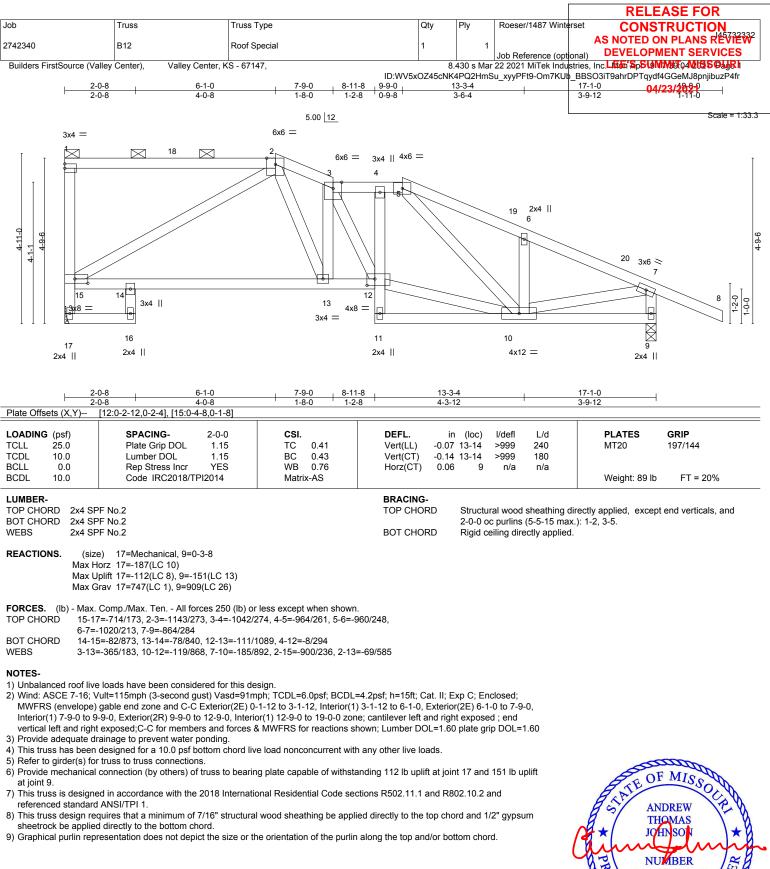


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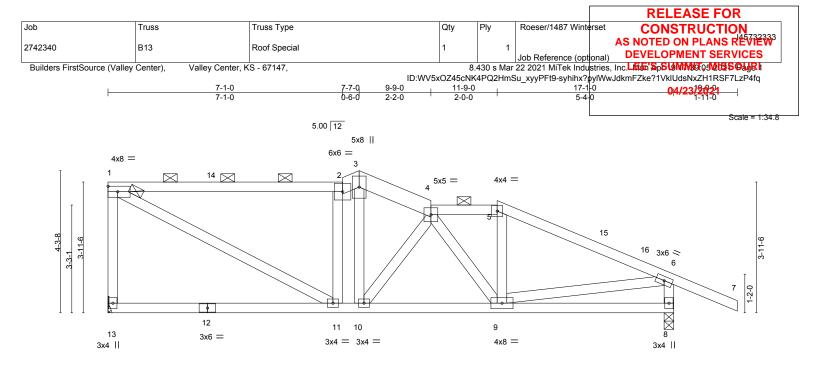








MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



L	7-1-0	7-7-0	9-9-0	11-9-0	17-1-0		
1	7-1-0	<u>ბ-6-ძ</u>	2-2-0	2-0-0	5-4-0	1	
LOADING (psf) ICLL 25.0 ICCDL 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 0.64 BC 0.34 WB 0.25 Matrix-AS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.06 11-13 -0.12 11-13 0.01 8	l/defl L/d >999 240 >999 180 n/a n/a	PLATES MT20 Weight: 82 lb	GRIP 197/144 FT = 20%
2-3,3-4 3OT CHORD 2x4 SF	2F No.2 *Except* 1: 2x6 SPF No.2 2F No.2 2F No.2	1	BRACING TOP CHOI BOT CHOI	RD Structu 2-0-0 o	ral wood sheathing direc c purlins (4-7-10 max.): eiling directly applied.		t end verticals, and
Max U Max G	lorz 13=-155(LC 10) plift 13=-114(LC 8), 8=-145(LC 13) lirav 13=747(LC 1), 8=909(LC 1)						
FOP CHORD 1-13= 5-6=- BOT CHORD 10-17	Comp./Max. Ten All forces 250 (lb) o =-673/208, 1-2=-874/230, 2-3=-865/258 -1040/217, 6-8=-852/286 I=-101/890, 9-10=-142/1002 -143/791, 4-10=-293/92, 2-11=-397/227	, 3-4=-927/239, 4-5=-891					
2) Wind: ASCE 7-16; V MWFRS (envelope) Interior(1) 9-9-0 to 1	e loads have been considered for this do /ult=115mph (3-second gust) Vasd=91n gable end zone and C-C Exterior(2E) C 1-9-0, Exterior(2R) 11-9-0 to 14-9-0, Int t exposed;C-C for members and forces	nph; TCDL=6.0psf; BCDL -1-12 to 3-1-12, Interior(1 erior(1) 14-9-0 to 19-0-0) 3-1-12 to 7-7-0, zone; cantilever le	Exterior(2E) 7-7 ft and right expo	-0 to 9-9-0, osed ; end		

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 114 lb uplift at joint 13 and 145 lb uplift at joint 8.

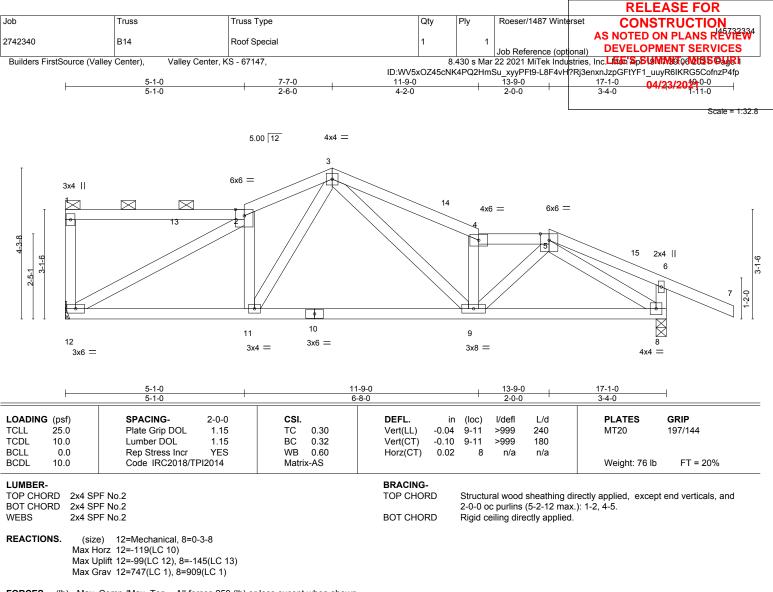
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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.



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- FORCES. (Ib) Max. Comp./Max. Ten. All forces 250 (Ib) or less except when shown.
- 2-3=-1058/292, 3-4=-1373/350, 4-5=-1259/293, 6-8=-301/164 TOP CHORD
- 11-12=-142/941, 9-11=-101/775, 8-9=-125/832 BOT CHORD
- WEBS 2-12=-1036/255, 3-11=-70/369, 3-9=-164/611, 4-9=-749/231, 5-9=-118/610, 5-8=-984/235

NOTES-

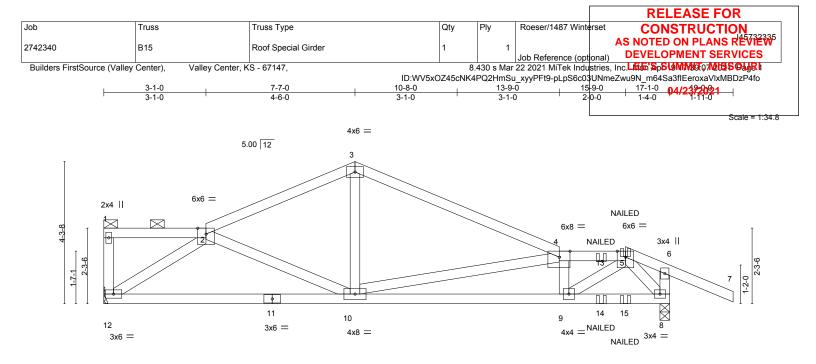
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 7-7-0, Exterior(2R) 7-7-0 to 10-7-0, Interior(1) 10-7-0 to 13-9-0, Exterior(2R) 13-9-0 to 16-11-4, Interior(1) 16-11-4 to 19-0-0 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.

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

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 99 lb uplift at joint 12 and 145 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.







<u> </u>	3-1-0		7-7-0 1-6-0	<u>13-9-0</u> 6-2-0	15-9-		
Plate Offsets (X,Y)	[4:0-3-14,Edge]			020	201		
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 0.68	Vert(LL) -0.07 10-12 >999	240	MT20	197/144
CDL 10.0	Lumber DOL	1.15	BC 0.58	Vert(CT) -0.15 10-12 >999	180		
BCLL 0.0	Rep Stress Incr	NO	WB 0.45	Horz(CT) 0.03 8 n/a	n/a		
BCDL 10.0	Code IRC2018/TF	PI2014	Matrix-MS			Weight: 71 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 4-5-11 oc purlins,
BOT CHORD 2x4 SPF No.2	except end verticals, and 2-0-0 oc purlins (4-10-13 max.): 1-2, 4-5.
WEBS 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS. (size) 12=Mechanical, 8=0-3-8	

Max Horz 12=-85(LC 4) Max Uplift 12=-97(LC 8), 8=-154(LC 9)

Max Grav 12=743(LC 1), 8=865(LC 1)

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

TOP CHORD 2-3=-953/129, 3-4=-964/109, 4-5=-1343/200, 6-8=-277/104

BOT CHORD 10-12=-99/868, 9-10=-183/1403, 8-9=-37/457

2-12=-1018/168, 3-10=0/374, 4-10=-619/181, 4-9=-575/140, 5-9=-163/1096, WFBS 5-8=-742/70

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

- 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 97 lb uplift at joint 12 and 154 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) 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) 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, 3-4=-70, 4-5=-70, 5-6=-70, 6-7=-70, 8-12=-20 Concentrated Loads (lb)

Vert: 5=49(B) 14=-2(B)



OF MISSOL

ANDREW

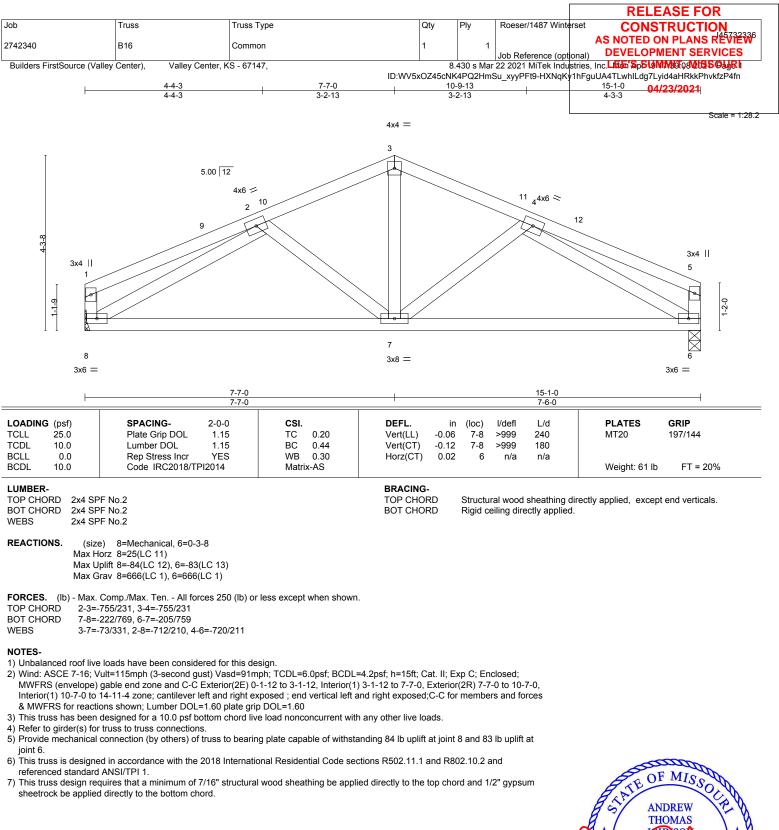
THOMAS

JOHNSON

NUMBER

IATE

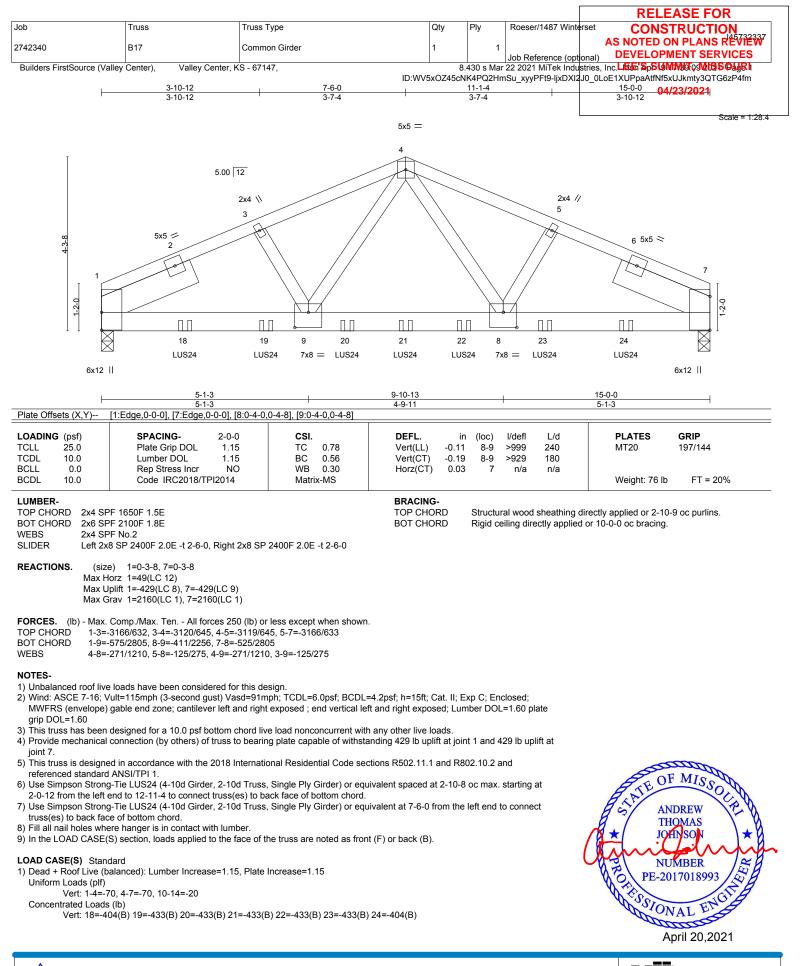


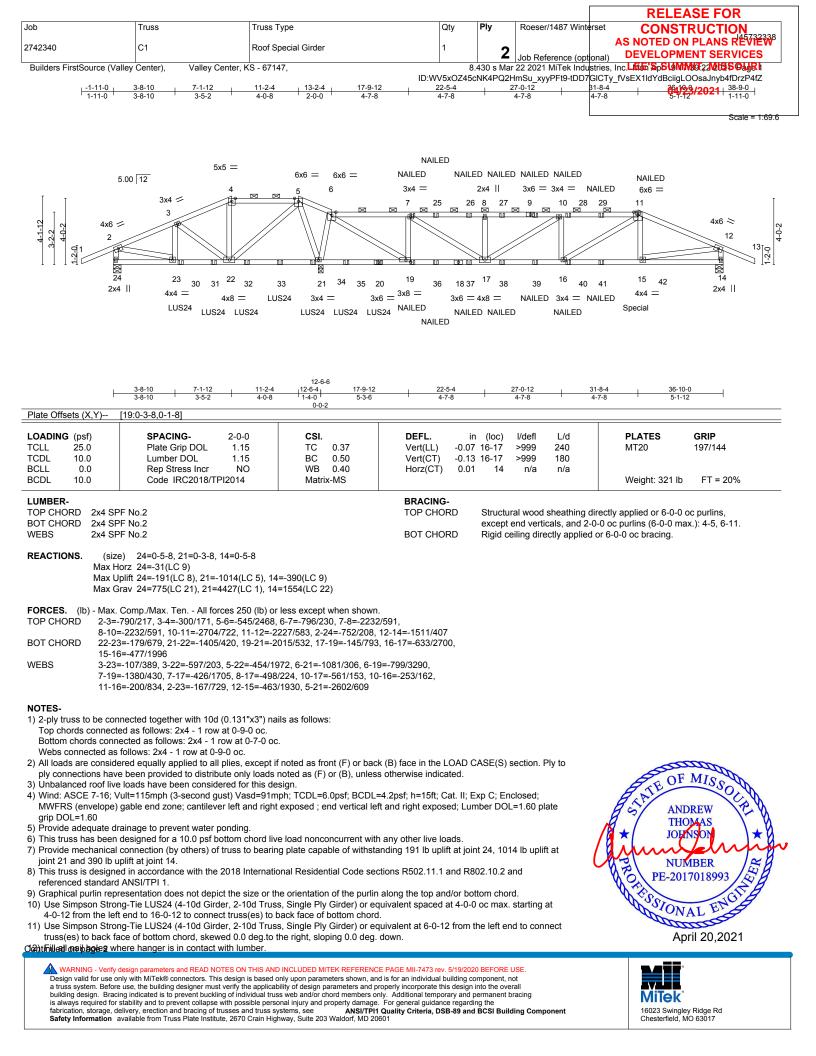




April 20,2021







						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Roeser/1487 Winte	AS NOTED ON PLANS REVIEW
2742340	C1	Roof Special Girder	1			AS NOTED ON PLANS REVIEW
2142340					Job Reference (opt	
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			8	.430 s Mar	22 2021 MiTek Indu	stries, Inc. Little SpS10MMET22WUSSO46Rb
			ID:WV5xOZ45	cNK4PQ2H	mSu_xyyPFt9-tDD7	GICTy_fVsEX1IdYdBciigLOOsaJnyb4fDrzP4fZ
NOTES-						04/23/2021
13) "NAILED" indicates 3-	48"x3.25") toe-nails per NDS guidlines.					

14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 50 lb down at 31-5-12, and 220 lb down and 118 lb up at 31-8-4 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

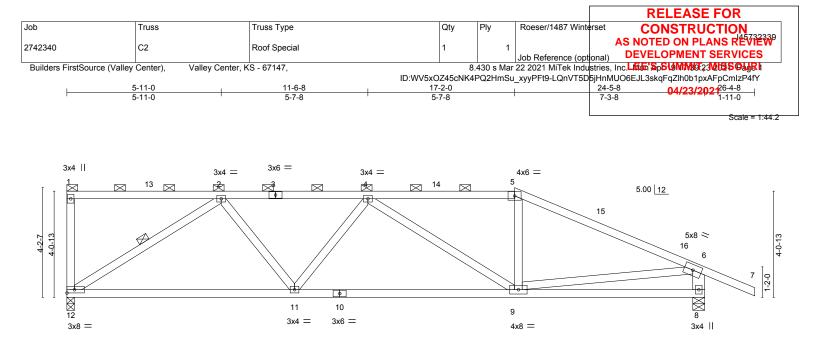
Uniform Loads (plf)

Vert: 1-2=-70, 2-4=-70, 4-5=-70, 5-6=-70, 6-11=-70, 11-12=-70, 12-13=-70, 14-24=-20

Concentrated Loads (lb)

Vert: 9=-73(B) 20=-263(B) 19=-29(B) 7=-73(B) 11=-73(B) 25=-73(B) 26=-73(B) 27=-73(B) 28=-73(B) 29=-73(B) 30=-433(B) 31=-267(B) 32=-272(B) 33=-272(B) 34=-267(B) 35=-267(B) 35=-267(B) 36=-29(B) 37=-29(B) 39=-29(B) 49=-29(B) 41=-29(B) 42=-249(B)





F	8-8-12			17-2-0					
		8-8-12	· ·	8-5-4				7-3-8	•
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 0.56	Vert(LL) -	0.13 11-12	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.67	Vert(CT) -	0.27 11-12	2 >999	180		
BCLL	0.0	Rep Stress Incr YES	WB 0.39	Horz(CT)	0.05 8	3 n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS					Weight: 101 lb	FT = 20%
LUMBER-			1	BRACING-					
OP CHOR		E No 2		TOP CHORE) Struc	tural wood	sheathing di	rectly applied, except e	end verticals and
SOT CHOR							(4-4-15 max		
VEBS		F No.2 *Except*		BOT CHORD			ectly applied.	,	
		6 SPF No.2		WEBS	•	1 Row at midpt 2-12			
REACTION	Max He Max U	e) 12=0-3-8, 8=0-5-8 orz 12=-160(LC 8) plift 12=-194(LC 8), 8=-191(LC 9) rav 12=1077(LC 1), 8=1241(LC 1)							
FORCES. TOP CHOF BOT CHOF	RD 2-4=-	Comp./Max. Ten All forces 250 (lb) o 1580/274, 4-5=-1446/254, 5-6=-1665/2 !=-177/1289, 9-11=-240/1737, 8-9=-84/	45, 6-8=-1172/286						

BOT CHORD 11-12=-17//1289, 9-11=-240/17/37, 8-9=-84/297 WEBS 2-12=-1483/298, 2-11=-18/491, 4-11=-263/117, 4-9=-460/111, 5-9=0/301, 6-9=-142/1158

NOTES-

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

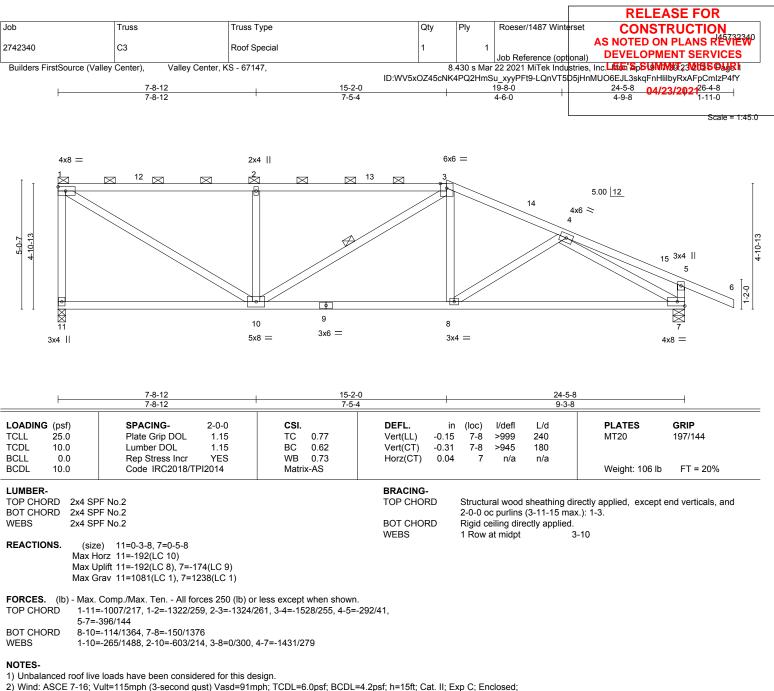
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 17-2-0, Exterior(2R) 17-2-0 to 20-2-0 , Interior(1) 20-2-0 to 26-4-8 zone; cantilever left 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) 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 194 lb uplift at joint 12 and 191 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.







/ Wind: ASCE 7-16, Vuite Frampin (3-second gust) Vasd=9 fmpn, TCDL=6.0psi, BCDL=4.2psi, fi=15it, Cat. II, Exp C, Enclosed, MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 15-2-0, Exterior(2R) 15-2-0 to 18-2-0

, Interior(1) 18-2-0 to 26-4-8 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) 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 192 lb uplift at joint 11 and 174 lb uplift at joint 7.

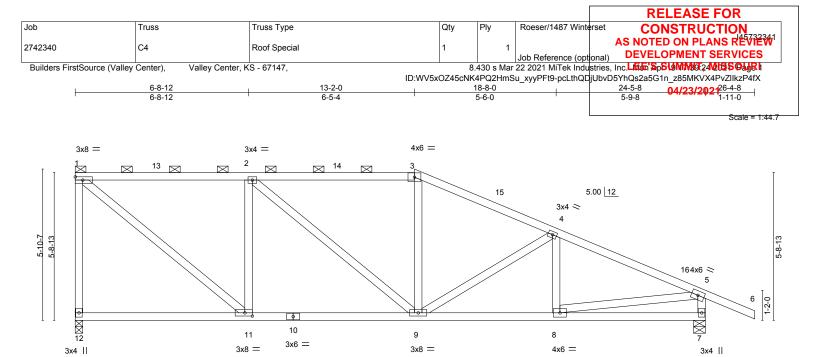
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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



BCDL 1	0.0	Code IRC2018/TPI2014	Matrix-AS	· · · ·		Weight: 113 lb FT = 20%	
LUMBER- TOP CHORE BOT CHORE WEBS		F No.2		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dir 2-0-0 oc purlins (4-9-6 max.): Rigid ceiling directly applied.	ectly applied, except end verticals, and 1-3.	

DEFL

Vert(LL)

Vert(CT)

Horz(CT)

18-8-0

5-6-0

8-9

7

9-11

l/def

>999

>999

n/a

L/d

240

180

n/a

in (loc)

-0.06

-0.12

0.03

24-5-8

5-9-8

PLATES

MT20

GRIP

197/144

13-2-0

6-5-4

0.58

0.40

0.36

CSI

ΤС

BC

WB

REACTIONS. (size) 12=0-3-8, 7=0-5-8 Max Horz 12=-225(LC 8) Max Uplift 12=-188(LC 8), 7=-171(LC 13) Max Grav 12=1081(LC 1), 7=1238(LC 1)

6-8-12

6-8-12

SPACING-

Plate Grip DOL

Rep Stress Incr

Lumber DOL

[11:0-3-8,0-1-8]

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 1-12=-1018/207, 1-2=-1018/228, 2-3=-1215/259, 3-4=-1384/253, 4-5=-1661/238, TOP CHORD

5-7=-1175/274

2-0-0

1.15

1.15

YES

BOT CHORD 9-11=-70/1018 8-9=-134/1460

WEBS 1-11=-231/1282, 2-11=-680/215, 2-9=-98/253, 4-9=-286/136, 5-8=-180/1333

NOTES-

Plate Offsets (X,Y)--

25.0

10.0

0.0

LOADING (psf)

TCLL

TCDL

BCLL

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) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 13-2-0, Exterior(2R) 13-2-0 to 16-2-0 , Interior(1) 16-2-0 to 26-4-8 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) 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 188 lb uplift at joint 12 and 171 lb uplift at joint 7.

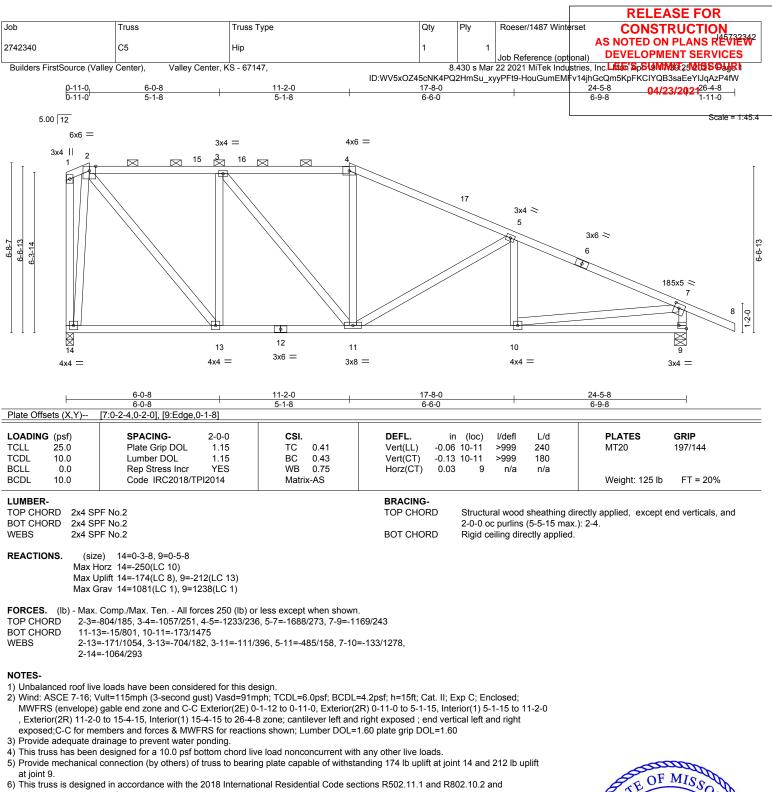
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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.





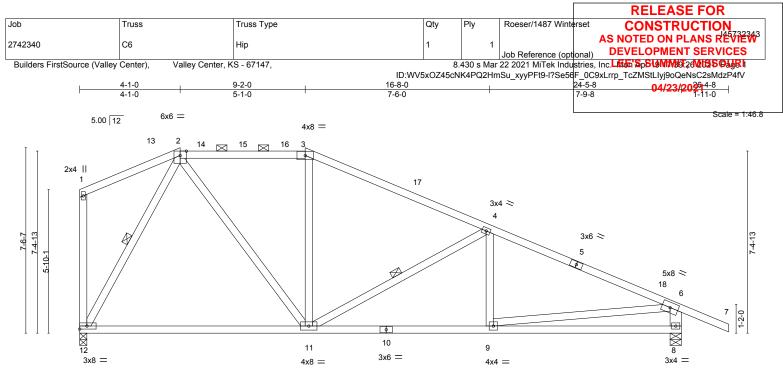


referenced standard ANSI/TPI 1. 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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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	4-1-0 4-1-0	9-2-0 5-1-0		16-8-0 7-6-0				4-5-8 7-9-8	
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DO	L 1.15	TC 0.52	Vert(LL)	-0.18 11-12	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.64	Vert(CT)	-0.37 11-12	>784	180		
BCLL 0.0	Rep Stress In	cr YES	WB 0.32	Horz(CT)	0.03 8	n/a	n/a		
BCDL 10.0	Code IRC201	8/TPI2014	Matrix-AS					Weight: 116 lb	FT = 20%

TOP CHORD

BOT CHORD

WEBS

TOP CHORD	2X4 SPF NO.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2 *Except
	6-8: 2x6 SPF No.2

.

REACTIONS. (size) 12=0-3-8, 8=0-5-8 Max Horz 12=-228(LC 8) Max Uplift 12=-124(LC 8), 8=-207(LC 13) Max Grav 12=1077(LC 1), 8=1241(LC 1)

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

TOP CHORD 2-3=-899/219, 3-4=-1076/196, 4-6=-1664/261, 6-8=-1161/252

BOT CHORD 11-12=0/493, 9-11=-152/1442, 8-9=-59/289

WEBS 2-11=-131/718, 4-11=-628/204, 2-12=-977/220, 6-9=-126/1163

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) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 4-1-0, Exterior(2R) 4-1-0 to 8-3-15, Interior(1) 8-3-15 to 9-2-0, Exterior(2R) 9-2-0 to 13-4-15, Interior(1) 13-4-15 to 26-4-8 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) 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 124 lb uplift at joint 12 and 207 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.



Structural wood sheathing directly applied, except end verticals, and

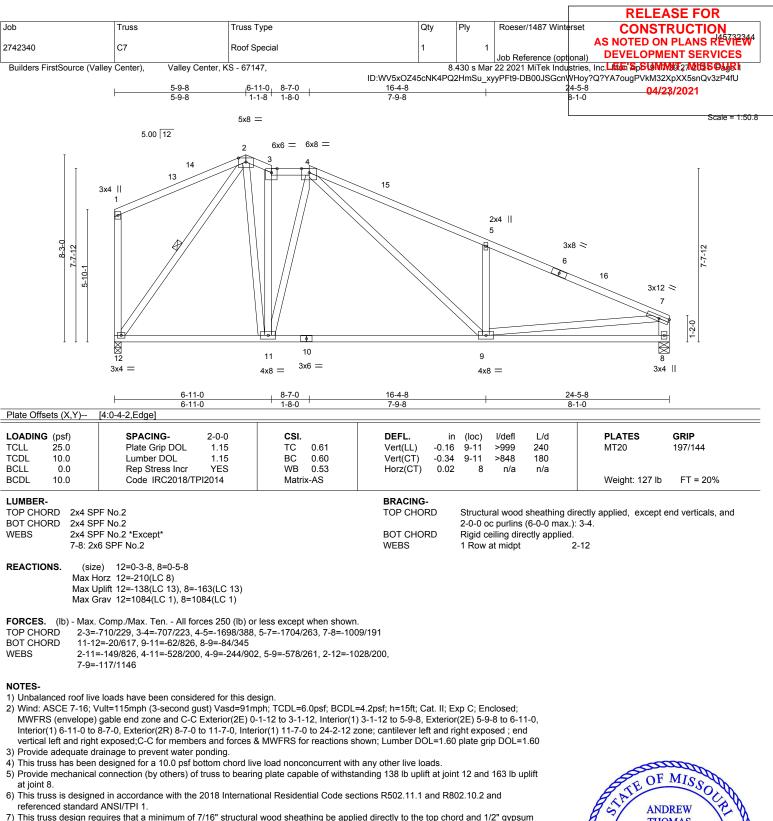
4-11, 2-12

2-0-0 oc purlins (5-11-1 max.): 2-3.

Rigid ceiling directly applied.

1 Row at midpt



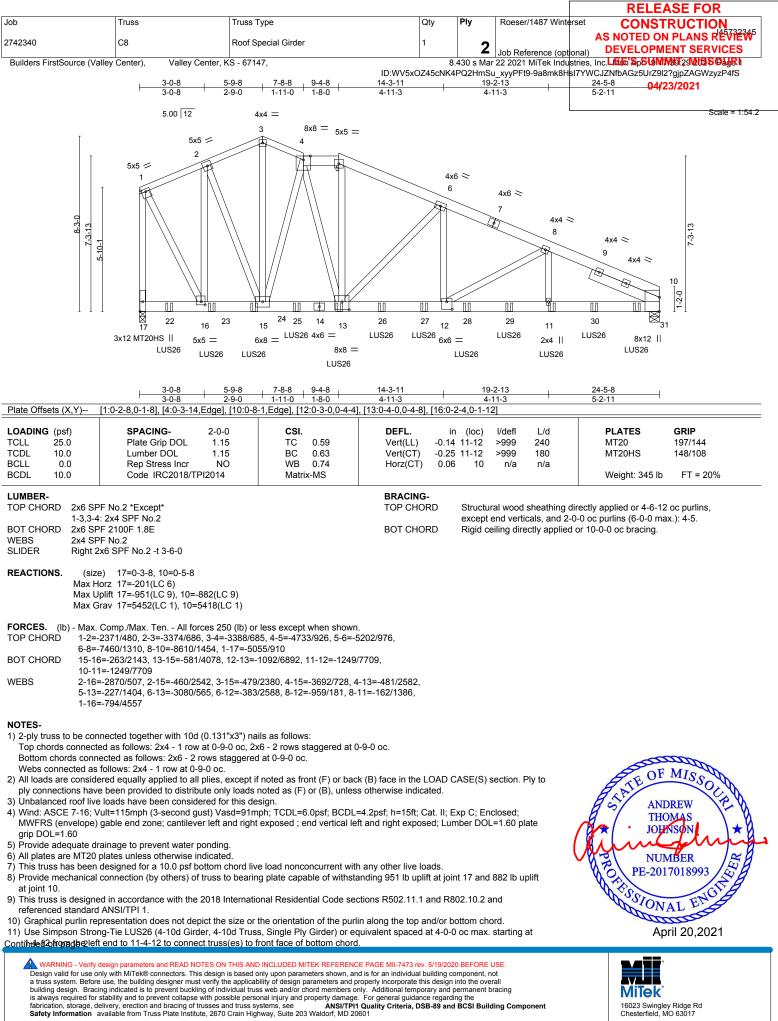


sheetrock be applied directly to the bottom chord.

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

						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Roeser/1487 Winte	AS NOTED ON PLANS REVIEW
2742340	C8	Roof Special Girder	1	2		
Duilders FirstOsurss () (allau	Conton) Volley Conton I	0.03447			Job Reference (opt	
Builders FirstSource (Valley	Center), Valley Center, k					stries, Inc.Littor SpS19MIMBE 29VIDE S Old BL
		l	D:WV5xOZ45cNK4I	PQ2HmSu	I_xyyPFt9-9a8mk8H	sI7YWCJZNfbAGz5UrZ9I2?gjpZAGWzyzP4fS

NOTES-

NOTES-12) Use Simpson Strong-Tie LUS26 (4-10d Girder, 4-10d Truss) or equivalent at 7-4-12 from the left end to connect truss(es) to front face of bottom chord, skewed 0.0 deg.to the left, sloping 0.0 deg. down.

13) Use Simpson Strong-Tie LUS26 (4-10d Girder, 4-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 13-4-12 from the left end to 21-4-12 to connect truss(es) to front face of bottom chord.

14) Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent at 23-4-12 from the left end to connect truss(es) to front face of bottom chord,

skewed 0.0 deg.to the left, sloping 0.0 deg. down. 15) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

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

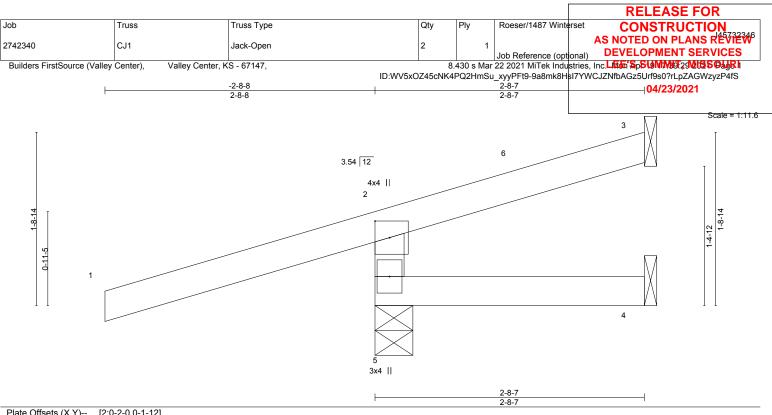
Uniform Loads (plf)

Vert: 1-3=-70, 3-4=-70, 4-5=-70, 5-10=-70, 17-18=-20

Concentrated Loads (lb)

Vert: 13=-727(F) 11=-727(F) 22=-736(F) 23=-727(F) 24=-727(F) 25=-763(F) 26=-727(F) 27=-727(F) 28=-727(F) 29=-727(F) 30=-723(F) 31=-646(F)





LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15	CSI. TC 0.58 BC 0.18	DEFL. in Vert(LL) 0.01 Vert(CT) 0.01	(loc) 4-5 4-5	l/defl >999 >999	L/d 240 180	PLATES GRI MT20 197/	
BCLL 0.0 BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.00 Matrix-MR	Horz(CT) -0.01	3	n/a	n/a	Weight: 10 lb F	T = 20%
LUMBER-			BRACING-					

LUMBER-		BRACING-	
TOP CHORI	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 2-8-7 oc purlins,
BOT CHORI	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=0-4-9, 3=Mechanical, 4=Mechanical

Max Horz 5=58(LC 8) Max Uplift 5=-171(LC 8), 3=-14(LC 12), 4=-11(LC 1)

Max Grav 5=427(LC 1), 3=10(LC 22), 4=36(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-366/339

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) -2-8-8 to 1-6-6, Exterior(2R) 1-6-6 to 2-7-11 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

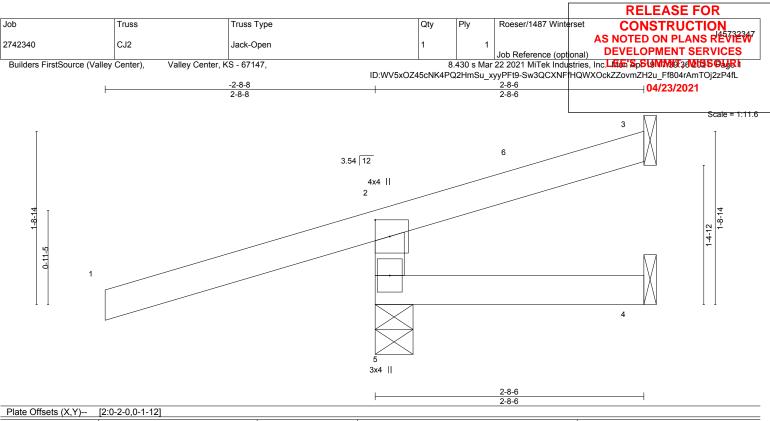
3) Refer to girder(s) for truss to truss connections.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 171 lb uplift at joint 5, 14 lb uplift at joint 3 and 11 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.







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 0.58 BC 0.18 WB 0.00 Matrix-MR	()	bc) I/defi L/d I-5 >999 240 I-5 >999 180 3 n/a n/a	PLATES GRIP MT20 197/144 Weight: 10 lb FT = 20%
LUMBER-			BRACING-		

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 2-8-6 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=0-4-9, 3=Mechanical, 4=Mechanical

Max Horz 5=58(LC 8) Max Uplift 5=-171(LC 8), 3=-14(LC 12), 4=-11(LC 1)

Max Grav 5=427(LC 1), 3=10(LC 22), 4=36(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-366/339

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) -2-8-8 to 1-6-6, Exterior(2R) 1-6-6 to 2-7-10 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

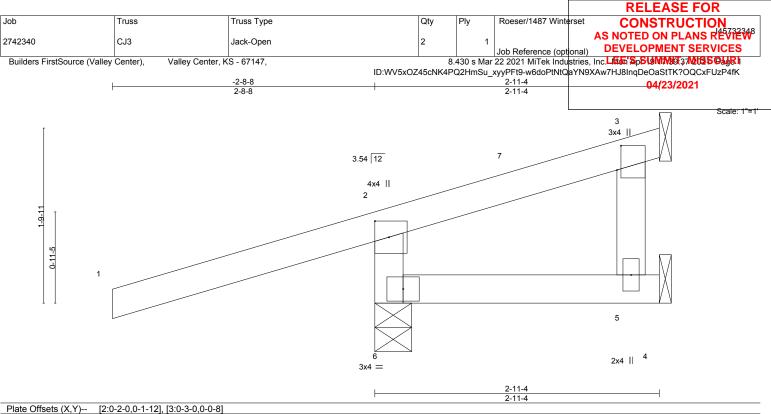
3) Refer to girder(s) for truss to truss connections.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 171 lb uplift at joint 5, 14 lb uplift at joint 3 and 11 lb uplift at joint 4.

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







LOADING	i (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.58	Vert(LL)	0.01	5-6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	0.01	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/T	PI2014	Matrix	k-MP						Weight: 12 lb	FT = 20%
						BRACING-						

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 2-11-4 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=55(LC 8) Max Uplift 6=-172(LC 8), 5=-10(LC 25), 3=-48(LC 25) Max Grav 6=426(LC 1), 5=49(LC 3), 3=10(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-6=-366/339

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) -2-8-8 to 1-6-6, Exterior(2R) 1-6-6 to 2-7-12 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) 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.

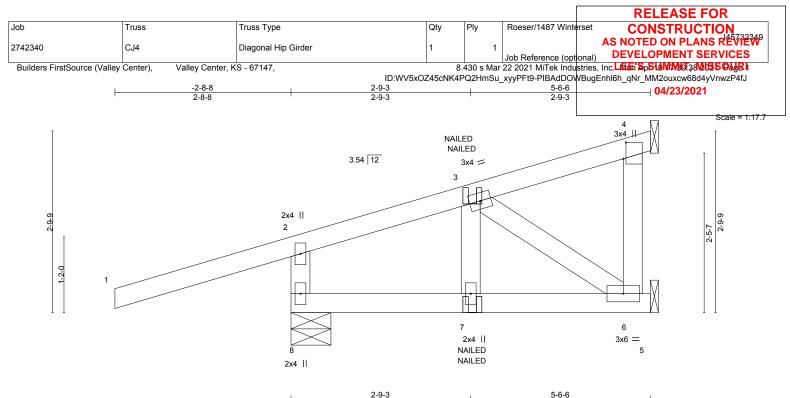
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 172 lb uplift at joint 6, 10 lb uplift at joint 5 and 48 lb uplift at joint 3.

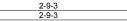
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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



NiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017





	[4:0-3-0,0-0-8]										
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	тс	0.67	Vert(LL)	-0.08	` ź	>753	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.08	7	>734	180		
BCLL 0.0	Rep Stress Incr	NO	WB	0.03	Horz(CT)	-0.08	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2	014	Matrix-	-MP						Weight: 24 lb	FT = 20%

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

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

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 5-6-6 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

2-9-3

REACTIONS. (size) 8=0-7-6, 6=Mechanical, 4=Mechanical

Max Horz 8=83(LC 4) Max Uplift 8=-155(LC 4), 6=-25(LC 5), 4=-19(LC 8)

Max Grav 8=452(LC 1), 6=68(LC 3), 4=106(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-8=-419/194

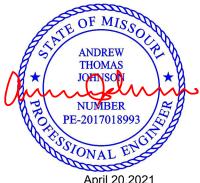
NOTES-

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) 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 155 lb uplift at joint 8, 25 lb uplift at joint 6 and 19 lb uplift at joint 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.
- 7) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 8) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

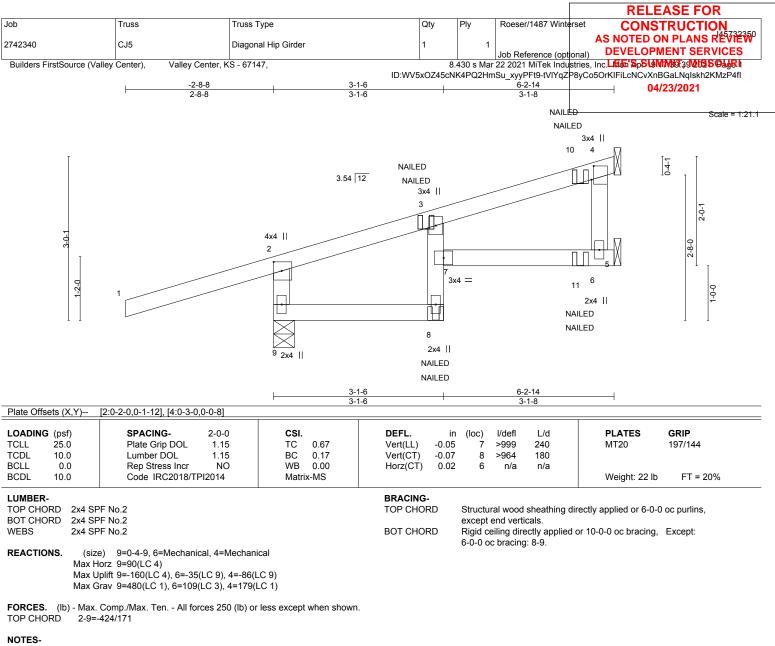
LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-2=-70, 2-4=-70, 5-8=-20
- Concentrated Loads (lb)
 - Vert: 3=70(F=35, B=35)









- 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) 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 160 lb uplift at joint 9, 35 lb uplift at joint 6 and 86 lb uplift at joint 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.
- 7) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 8) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 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)

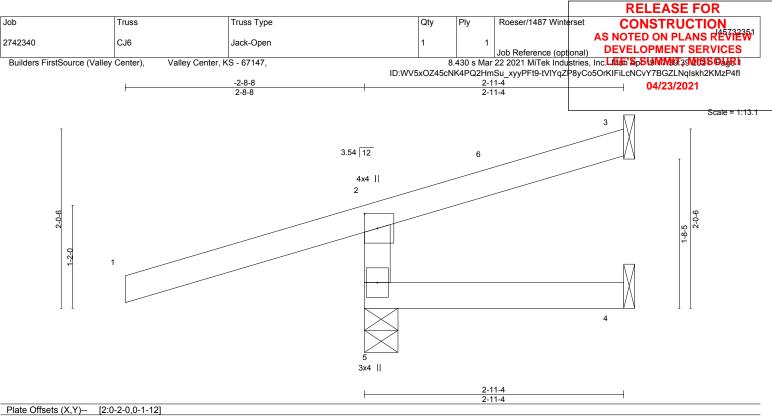
Vert: 1-2=-70, 2-4=-70, 8-9=-20, 5-7=-20

- Concentrated Loads (lb)
 - Vert: 3=70(F=35, B=35) 10=-54(F=-27, B=-27) 11=-35(F=-17, B=-17)



April 20,2021





LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYES	CSI. TC 0.58 BC 0.17 WB 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	in 0.01 0.01 -0.02	(loc) 4-5 4-5 3	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
BCDL 10.0 LUMBER- TOP CHORD 2x4 SP	Code IRC2018/TPI2014	Matrix-MR	BRACING- TOP CHORE					Weight: 11 lb	FT = 20%

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

TOP CHORD BOT CHORD

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

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

Max Horz 5=57(LC 8) Max Uplift 5=-163(LC 8), 3=-20(LC 12), 4=-3(LC 1) Max Grav 5=427(LC 1), 3=21(LC 1), 4=42(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-370/337

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) -2-8-8 to 1-6-6, Exterior(2R) 1-6-6 to 2-10-8 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

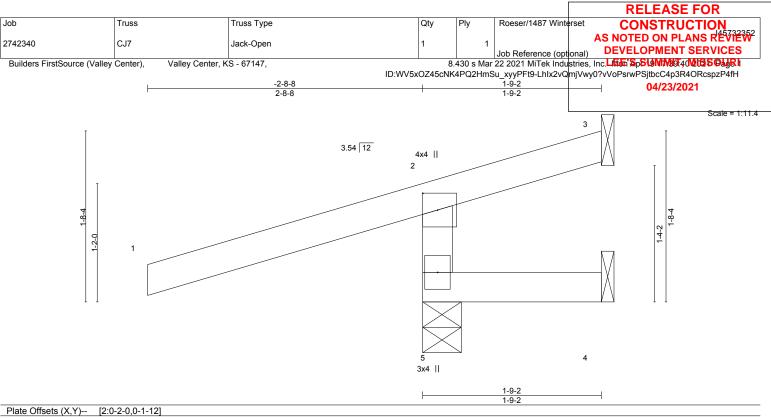
3) Refer to girder(s) for truss to truss connections.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 163 lb uplift at joint 5, 20 lb uplift at joint 3 and 3 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.







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 0.58 BC 0.14 WB 0.00 Matrix-MR	DEFL. Vert(LL) 0.0 Vert(CT) 0.0 Horz(CT) -0.0	0 4-5	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 8 lb	GRIP 197/144 FT = 20%
LUMBER- TOP CHORD 2x4 SF	PF No.2		BRACING- TOP CHORD	Struct	ural wood	sheathing di	rectly applied or 1-9-	-2 oc purlins,

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

TOP CHORD BOT CHORD

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

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

Max Horz 5=45(LC 9) Max Uplift 5=-191(LC 8), 3=-75(LC 1), 4=-31(LC 1)

Max Grav 5=450(LC 1), 3=40(LC 8), 4=19(LC 8)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-387/367

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

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.

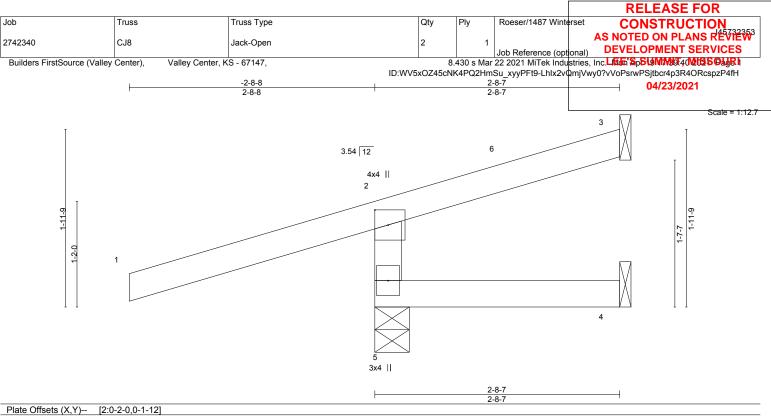
3) Refer to girder(s) for truss to truss connections.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 191 lb uplift at joint 5, 75 lb uplift at joint 3 and 31 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.







LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. i	n (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.58	Vert(LL) 0.0	4-5	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.17	Vert(CT) 0.0	4-5	>999	180		
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.02	2 3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MR					Weight: 10 lb	FT = 20%
LUMBER-	-		BRACING-					

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 2-8-7 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=0-4-9, 3=Mechanical, 4=Mechanical

Max Horz 5=54(LC 8) Max Uplift 5=-166(LC 8), 3=-16(LC 12), 4=-8(LC 1) Max Grav 5=427(LC 1), 3=8(LC 22), 4=37(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-369/337

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) -2-8-8 to 1-6-6, Exterior(2R) 1-6-6 to 2-7-11 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

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

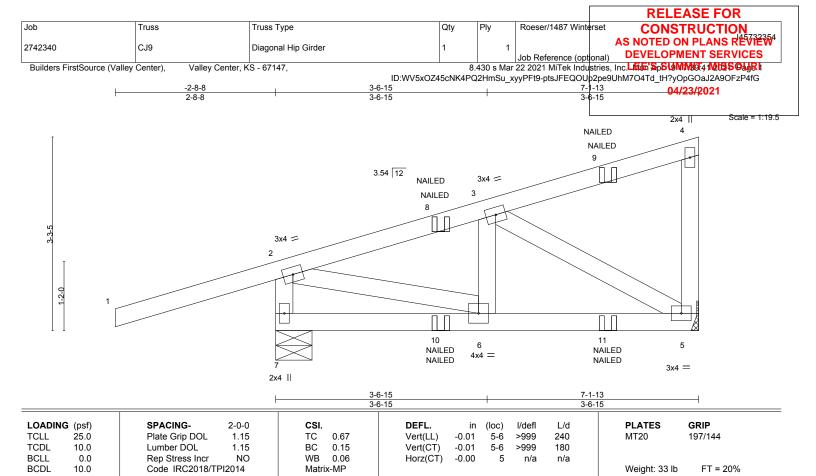
3) Refer to girder(s) for truss to truss connections.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 166 lb uplift at joint 5, 16 lb uplift at joint 3 and 8 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.







LUMBER-	
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TOP CHORD 2x4 SPF No 2 2x4 SPF No.2 BOT CHORD WEBS 2x4 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. 7=0-7-6, 5=Mechanical (size) Max Horz 7=102(LC 4) Max Uplift 7=-166(LC 4), 5=-90(LC 5) Max Grav 7=509(LC 1), 5=248(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-7=-483/169, 2-3=-267/70

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

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 166 lb uplift at joint 7 and 90 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.

8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-70, 2-4=-70, 5-7=-20 Concentrated Loads (lb)

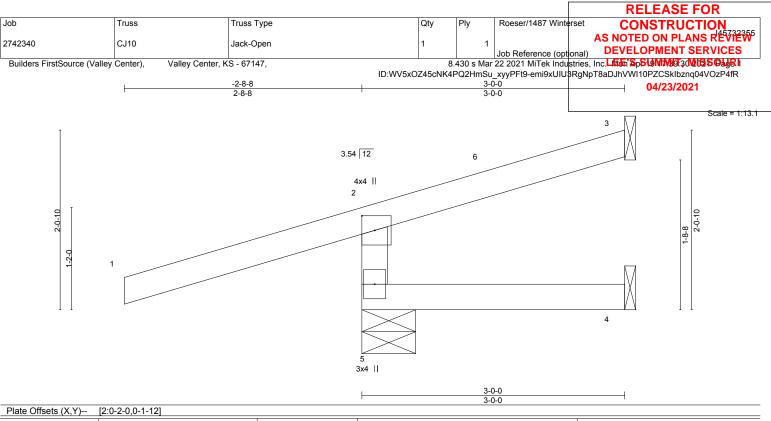
Vert: 8=70(F=35, B=35) 9=-3(F=-2, B=-2) 11=-7(F=-3, B=-3)

OF MISSOL ATE ANDREW THOMAS JOHNSO PE--NUMBER PE-2017018993 E

April 20,2021



^{7) &}quot;NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.



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 0.58 BC 0.17 WB 0.00 Matrix-MR	DEFL. in (loc) l/defl L/d Vert(LL) 0.01 4-5 >999 240 Vert(CT) 0.01 4-5 >999 180 Horz(CT) -0.02 3 n/a n/a	PLATES GRIP MT20 197/144 Weight: 11 lb FT = 20%
LUMBER-			BRACING-	

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 3-0-0 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=0-7-6, 3=Mechanical, 4=Mechanical

Max Horz 5=58(LC 8) Max Uplift 5=-162(LC 8), 3=-22(LC 12), 4=-1(LC 1) Max Grav 5=428(LC 1), 3=25(LC 1), 4=43(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-371/337

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) -2-8-8 to 1-6-6, Exterior(2R) 1-6-6 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.

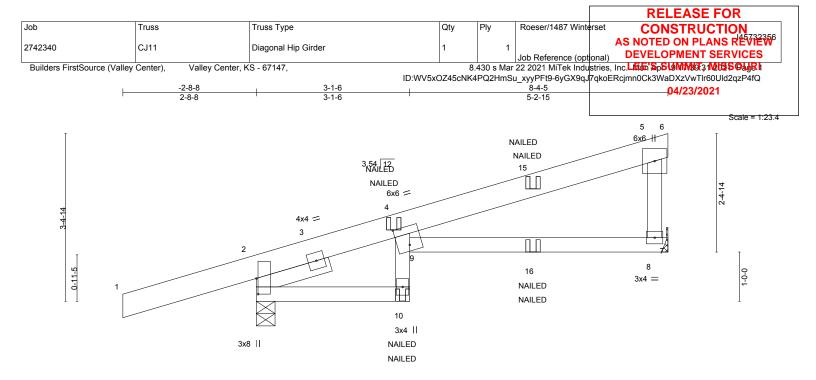
3) Refer to girder(s) for truss to truss connections.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 162 lb uplift at joint 5, 22 lb uplift at joint 3 and 1 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.







OADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	тс	0.49	Vert(LL)	0.07	8-9	>999	240	MT20	197/144
FCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.11	8-9	>875	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.04	8	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matrix	k-MR						Weight: 35 lb	FT = 20%

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. SLIDER Left 2x4 SPF No.2 -t 1-6-14

REACTIONS. (size) 8=Mechanical, 2=0-4-9 Max Horz 2=104(LC 5) Max Uplift 8=-98(LC 8), 2=-181(LC 4) Max Grav 8=339(LC 21), 2=568(LC 21)

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

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 98 lb uplift at joint 8 and 181 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) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.

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)

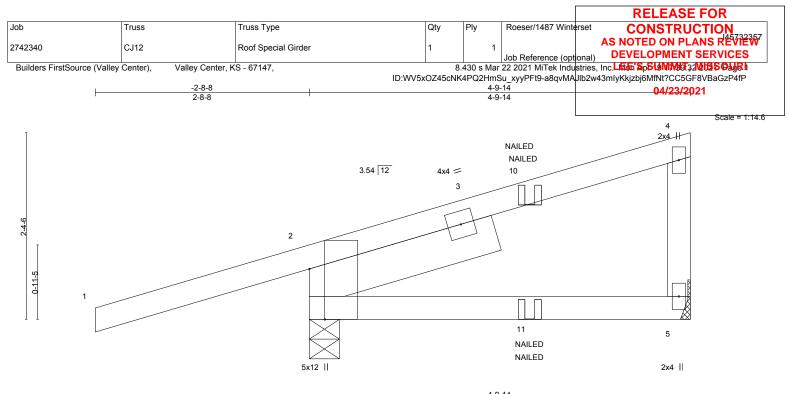
Vert: 1-5=-70, 5-6=-20, 10-11=-20, 7-9=-20 Concentrated Loads (lb)

Vert: 4=142(F=71, B=71) 15=-11(F=-6, B=-6) 16=-21(F=-10, B=-10)

OF MISSOL ATE ANDREW THOMAS JOHNSON NUMBER WORTSSIONAL PE-2017018993 E

April 20,2021





4-9-14	
4-9-14	

LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.60	DEFL. Vert(LL)	0.02	oc) l/defl 5-8 >999	L/d 240	PLATES MT20	GRIP 197/144
TCDL 10.0 BCLL 0.0	Lumber DOL 1.15 Rep Stress Incr NO	BC 0.16 WB 0.00	Vert(CT) Horz(CT)	-0.03 5 0.01	5-8 >999 2 n/a	180 n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP					Weight: 21 lb	FT = 20%
LUMBER- TOP CHORD 2x4 SI	PF No.2		BRACING- TOP CHOR		uctural woo	d sheathing di	rectly applied or 4-9-1	14 oc purlins

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

Plate Offsets (X Y)-- [2:0-7-11 Edge]

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

REACTIONS. (size) 5=Mechanical, 2=0-4-9 Max Horz 2=86(LC 7) Max Uplift 5=-29(LC 8), 2=-158(LC 4)

Max Grav 5=136(LC 21), 2=442(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-234/304

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 29 lb uplift at joint 5 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) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 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

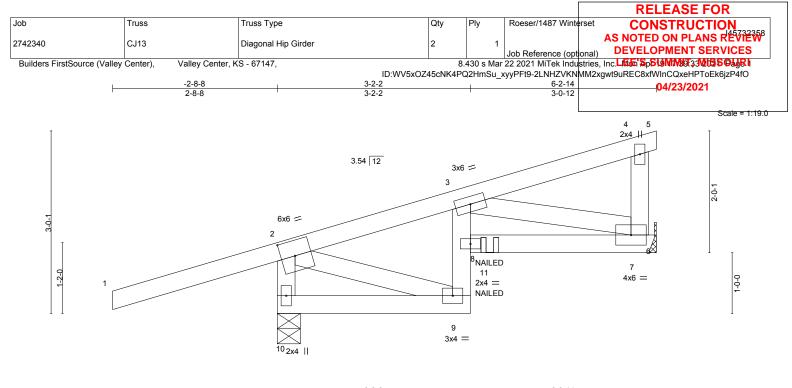
Uniform Loads (plf)

Vert: 1-4=-70, 5-6=-20 Concentrated Loads (lb) Vert: 10=142(F=71, B=71)









				3-2-2 3-2-2				6-2-14 3-0-12		
Plate Offsets (X,Y)	[2:0-2-12,0-3-0]							0012		
LOADING (psf)	SPACING- 2-0-	csi.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.1	5 TC	0.67	Vert(LL)	-0.01	8	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL 1.1	5 BC	0.22	Vert(CT)	-0.02	8	>999	180		
BCLL 0.0	Rep Stress Incr NO) WB	0.07	Horz(CT)	0.01	7	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Mati	ix-MS						Weight: 28 lb	FT = 20%
		I								

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,
BOT CHORD 2x4 SPF No.2	except end verticals.
WEBS 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 10=0-4-9, 7=Mechanical

Max Horz 10=101(LC 5) Max Uplift 10=-190(LC 4), 7=-82(LC 8)

Max Grav 10=511(LC 1), 7=224(LC 1)

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

TOP CHORD 2-10=-490/206

BOT CHORD 7-8=-165/327 WEBS 2-9=-79/279, 3-7=-302/170

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.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 190 lb uplift at joint 10 and 82 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) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.

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

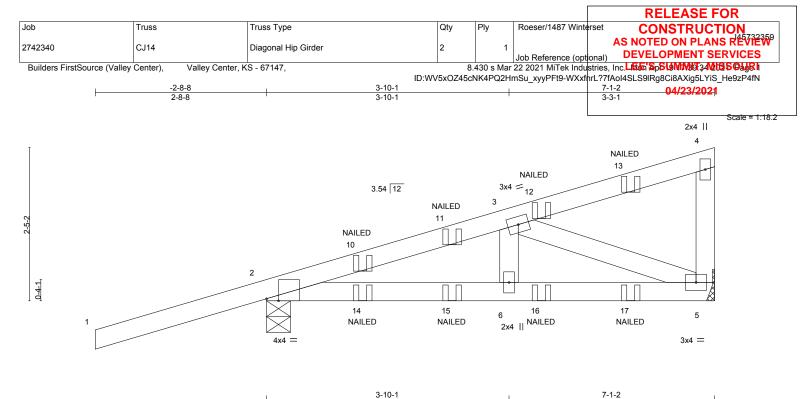
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-70, 2-4=-70, 4-5=-20, 9-10=-20, 6-8=-20 Concentrated Loads (lb)

Vert: 11=0(F=0, B=0)







			3-10-1			3-3-1	
Plate Offsets (X,Y)	[2:0-2-4,Edge]		3-10-1			3-3-1	
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 NO Code IRC2018/TPI2014	CSI. TC 0.60 BC 0.28 WB 0.08 Matrix-MP	DEFL. Vert(LL) 0.0 Vert(CT) 0.0 Horz(CT) 0.0	2 6-9	l/defl L/d >999 240 >999 180 n/a n/d	0 MT20 0	GRIP 197/144 FT = 20%
BOT CHORD 2x4 SF WEBS 2x4 SF REACTIONS. (siz Max H Max U	PF No.2 PF No.2 PF No.2 PF No.2 lorz 2=97(LC 27) lplift 2=-164(LC 4), 5=-53(LC 8) prav 2=481(LC 1), 5=279(LC 1)		BRACING- TOP CHORD BOT CHORD	except	end verticals.	thing directly applied or 6-0-(. ,
TOP CHORD 2-3= BOT CHORD 2-6=	Comp./Max. Ten All forces 250 (lb) c -456/46 -63/373, 5-6=-63/373 -413/73	r less except when shown	1.				
MWFRS (envelope) grip DOL=1.60 2) This truss has been 3) Refer to girder(s) for	/ult=115mph (3-second gust) Vasd=91r gable end zone; cantilever left and righ designed for a 10.0 psf bottom chord li r truss to truss connections.	t exposed ; end vertical le ve load nonconcurrent with	ft and right exposed; Li h any other live loads.	imber DO	L=1.60 plate		

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 164 lb uplift at joint 2 and 53 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.

6) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.

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

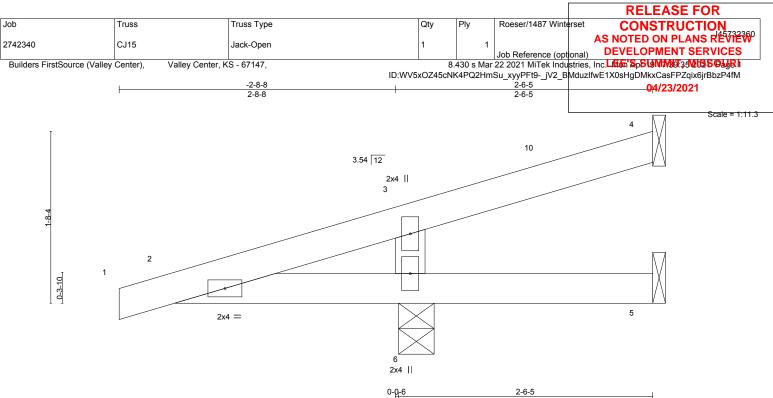
Uniform Loads (plf)

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

Vert: 10=34(F) 13=-14(B) 14=39(F) 15=10(B) 16=1(F) 17=-15(B)







						0-0-6			2-5	5-15	1	
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	0.32	Vert(LL)	0.01	5-6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	0.01	5-6	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.03	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-MP						Weight: 12 lb	FT = 20%

LUMBER-

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

BRACING-TOP CHORD

 TOP CHORD
 Structural wood sheathing directly applied or 2-6-5 oc purlins, except end verticals.

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

- REACTIONS. (size) 6=0-4-3, 4=Mechanical, 5=Mechanical Max Horz 6=50(LC 9) Max Uplift 6=-165(LC 8), 4=-18(LC 12), 5=-46(LC 1) Max Grav 6=497(LC 1), 4=4(LC 1), 5=32(LC 8)
- FORCES. (lb) Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown. TOP CHORD 3-6=-304/358

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) -2-8-8 to 1-6-6, Exterior(2R) 1-6-6 to 2-5-9 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

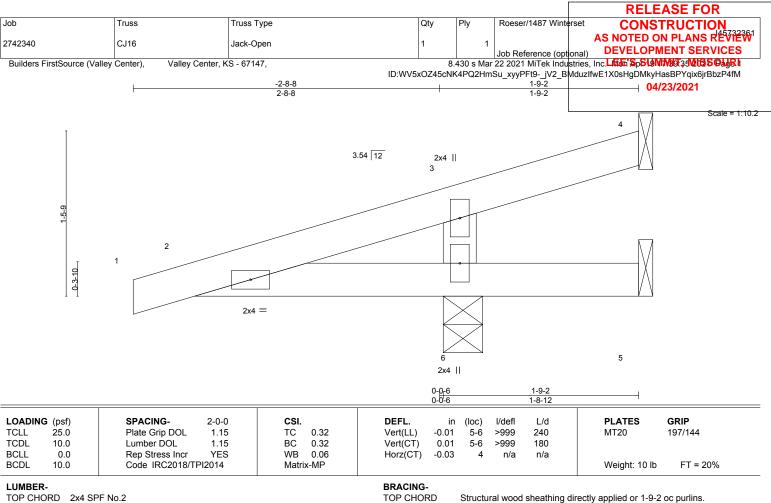
3) Refer to girder(s) for truss to truss connections.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 165 lb uplift at joint 6, 18 lb uplift at joint 4 and 46 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.







BOT CHORD

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

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

WEBS 2x4 SPF No.2

REACTIONS. 4=Mechanical, 5=Mechanical, 6=0-4-3 (size) Max Horz 6=50(LC 8) Max Uplift 4=-56(LC 1), 5=-94(LC 1), 6=-189(LC 8) Max Grav 4=19(LC 8), 5=45(LC 8), 6=541(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. 3-6=-307/367 WEBS

NOTES-

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

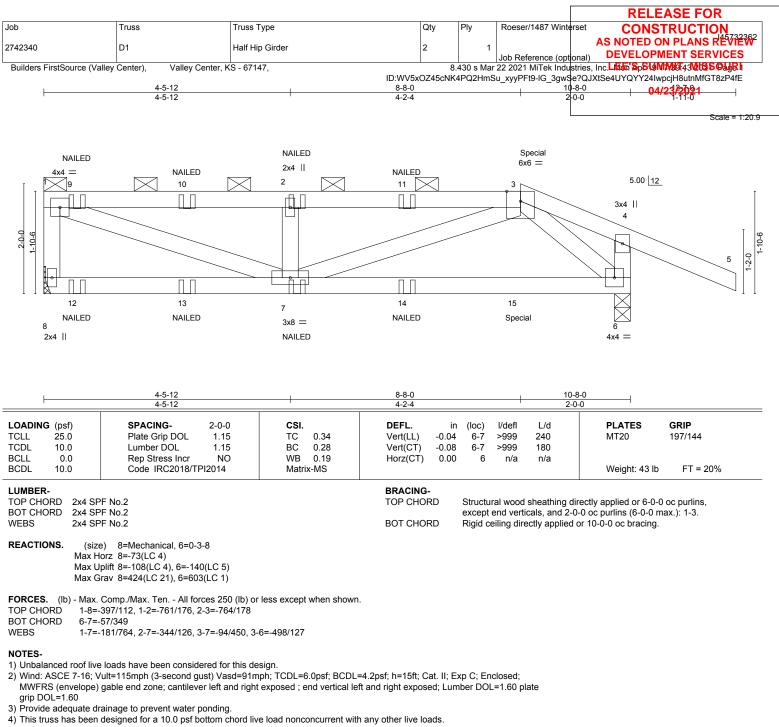
3) Refer to girder(s) for truss to truss connections.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 56 lb uplift at joint 4, 94 lb uplift at joint 5 and 189 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.







- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 108 lb uplift at joint 8 and 140 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) 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) 73 lb down and 27 lb up at 8-8-0 on top chord, and 29 lb down and 36 lb up at 8-7-4 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).

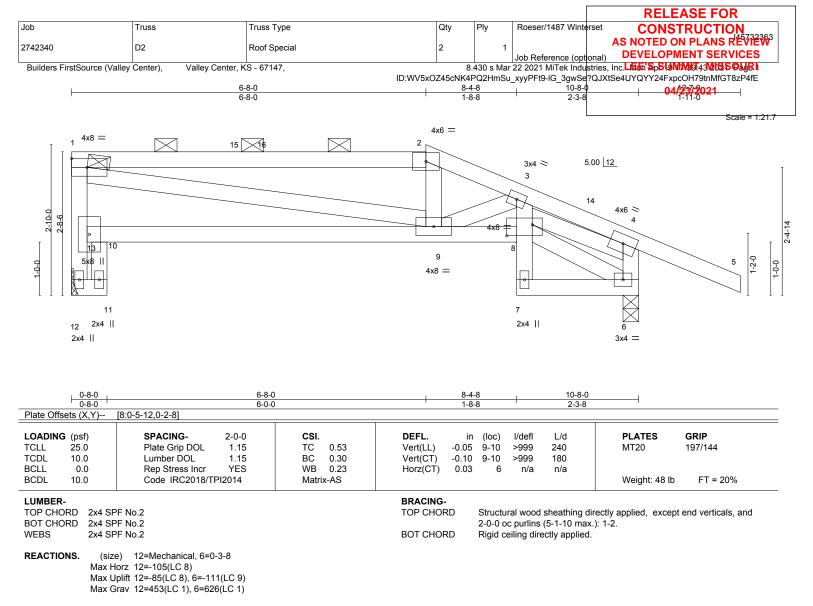
LOAD CASE(S) Standard

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

Vert: 7=11(B) 12=11(B) 13=11(B) 14=11(B) 15=11(B)







FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 12-13=-395/108, 1-13=-373/183, 2-3=-880/224, 3-4=-783/194, 4-6=-550/248,

- 10P CHORD 12-13=-395/108 1-2=-860/279
- 1-2=-860/27 BOT CHORD 8-9=-95/715

WEBS 1-9=-298/656, 4-8=-138/706

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) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 6-8-0, Exterior(2R) 6-8-0 to 9-8-0, Interior(1) 9-8-0 to 12-7-0 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 85 lb uplift at joint 12 and 111 lb uplift at joint 6.

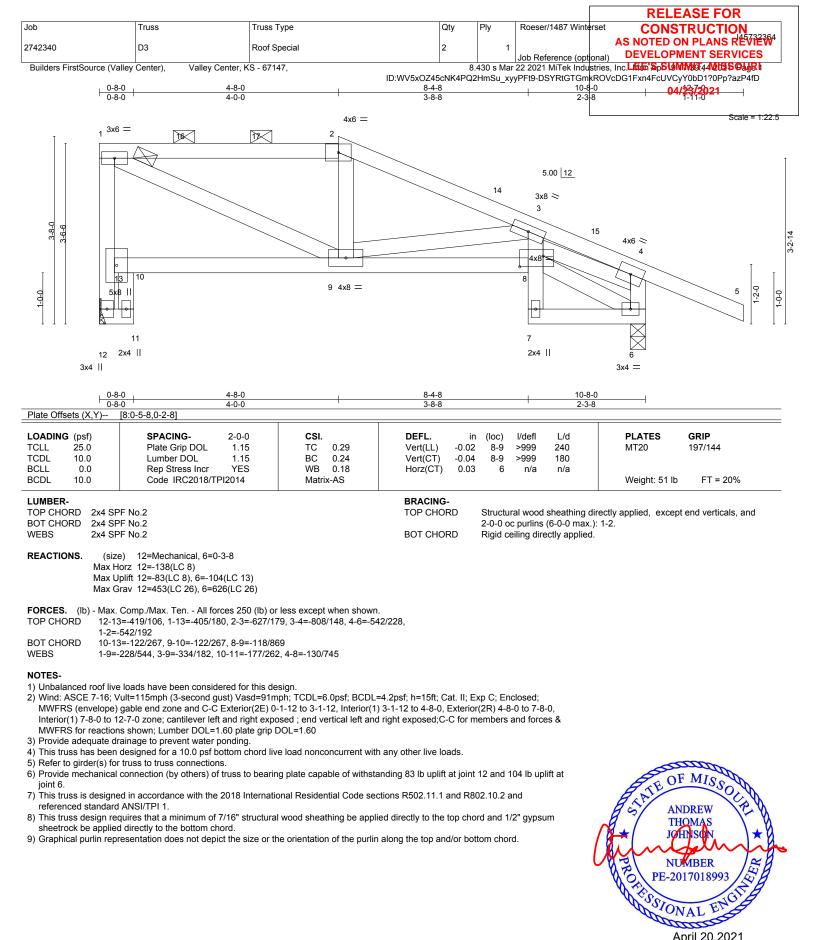
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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.



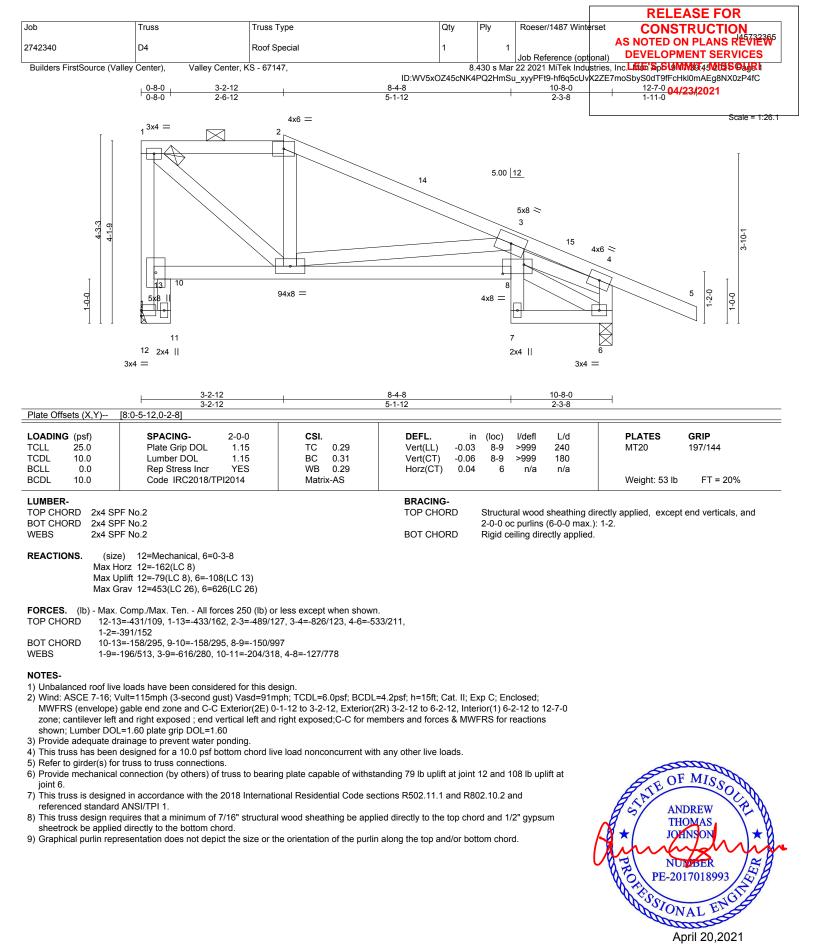




WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 system. See MSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

April 20,2021

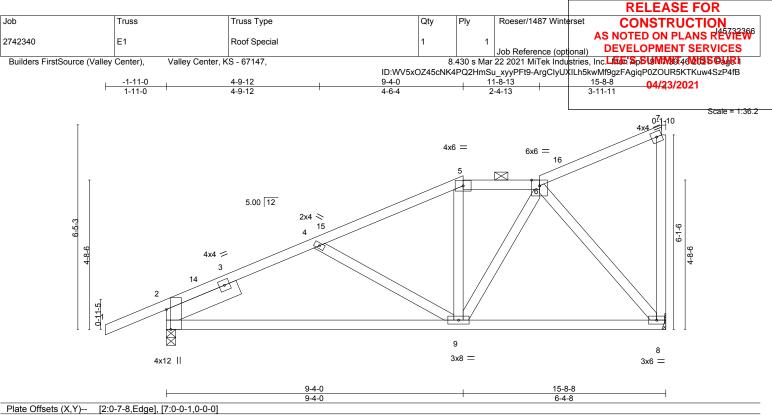




WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 system. See MSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

April 20,2021





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 0.26	Vert(LL) -0.10 9-12 >999	240 MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.54	Vert(CT) -0.20 9-12 >946	180
BCLL 0.0	Rep Stress Incr YES	WB 0.41	Horz(CT) 0.02 8 n/a	n/a
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 73 lb FT = 20%
LUMBER-			BRACING-	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied, except end verticals, and
BOT CHORD	2x4 SPF No.2		2-0-0 oc purlins (6-0-0 max.): 5-6.
WEBS	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied.
SLIDER	Left 2x6 SPF No.2 -t 2-6-0		

REACTIONS. (size) 8=Mechanical, 2=0-3-8 Max Horz 2=247(LC 11) Max Uplift 8=-147(LC 12), 2=-143(LC 12) Max Grav 8=692(LC 1), 2=843(LC 1)

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

- TOP CHORD 2-4=-961/181, 4-5=-728/139, 5-6=-621/151
- BOT CHORD 2-9=-356/848 8-9=-176/451
- WEBS 4-9=-261/151, 6-9=-105/344, 6-8=-675/178

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) -1-11-0 to 1-1-0, Interior(1) 1-1-0 to 9-4-0, Exterior(2E) 9-4-0 to 11-8-13, Interior(1) 11-8-13 to 15-6-12 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 147 lb uplift at joint 8 and 143 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.





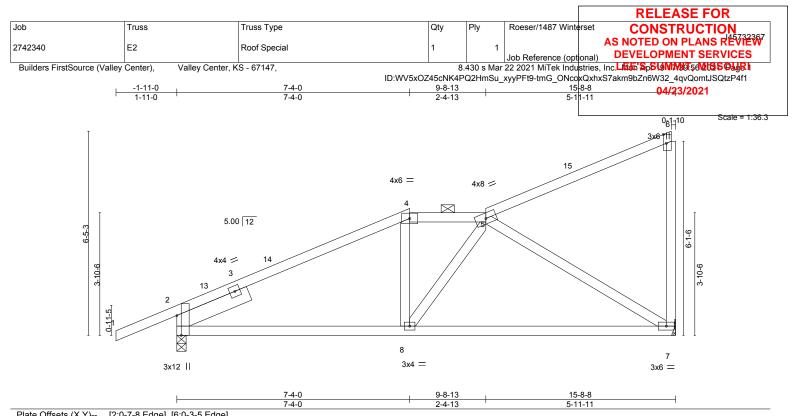


Plate Offsets (X, Y)	[2:0-7-8,Edge], [6:0-3-5,Edge]							
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.38	Vert(LL) -0.1	3 7-8	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.52	Vert(CT) -0.2	6 7-8	>713	180		
BCLL 0.0	Rep Stress Incr YES	WB 0.68	Horz(CT) 0.0	2 7	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS					Weight: 67 lb	FT = 20%
LUMBER-			BRACING-					
TOP CHORD 2x4 S	PF No.2		TOP CHORD	Structu	ural wood	sheathing d	irectly applied, except	t end verticals, and
BOT CHORD 2x4 S	PF No.2			2-0-0 c	oc purlins	(6-0-0 max.)): 4-5.	
WEBS 2x4 S	PF No.2		BOT CHORD	Rigid c	eiling dire	ctly applied.	•	
SLIDER Left 2	x6 SPF No.2 -t 2-6-0			•	2			

REACTIONS. (size) 7=Mechanical, 2=0-3-8 Max Horz 2=226(LC 12) Max Uplift 7=-168(LC 12), 2=-122(LC 12) Max Grav 7=692(LC 1), 2=843(LC 1)

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

TOP CHORD 2-4=-923/263, 4-5=-789/125

BOT CHORD 2-8=-213/791, 7-8=-186/710

WEBS 5-7=-806/217

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) -1-11-0 to 1-1-0, Interior(1) 1-1-0 to 7-4-0, Exterior(2E) 7-4-0 to 9-8-13, Interior(1) 9-8-13 to 15-6-12 zone; cantilever left and right 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) 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 168 lb uplift at joint 7 and 122 lb uplift at joint 2.

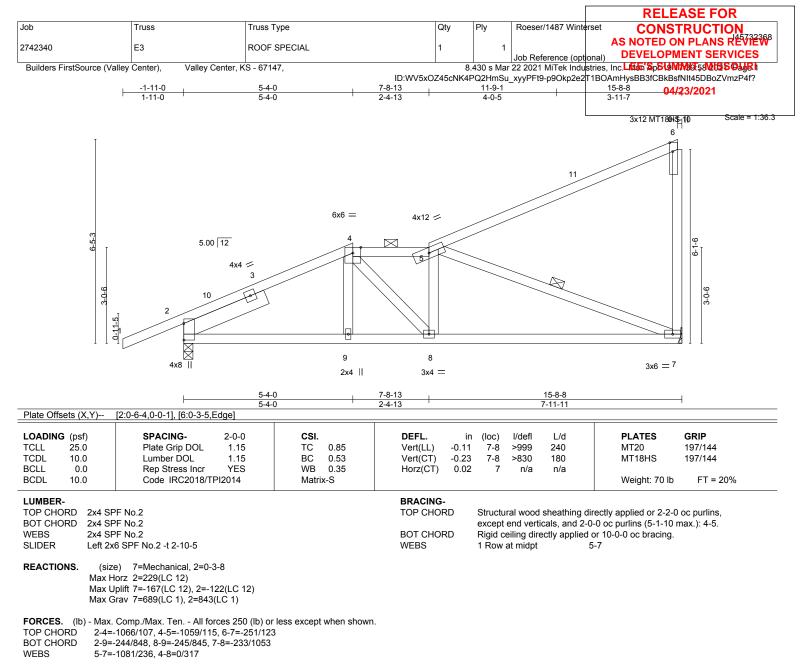
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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



- 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) -1-11-0 to 1-1-0, Interior(1) 1-1-0 to 5-4-0, Exterior(2E) 5-4-0 to 7-8-13, Interior(1) 7-8-13 to 15-6-3 zone; cantilever left and right 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) Provide adequate drainage to prevent water ponding.

3) All plates are MT20 plates unless otherwise indicated

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

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

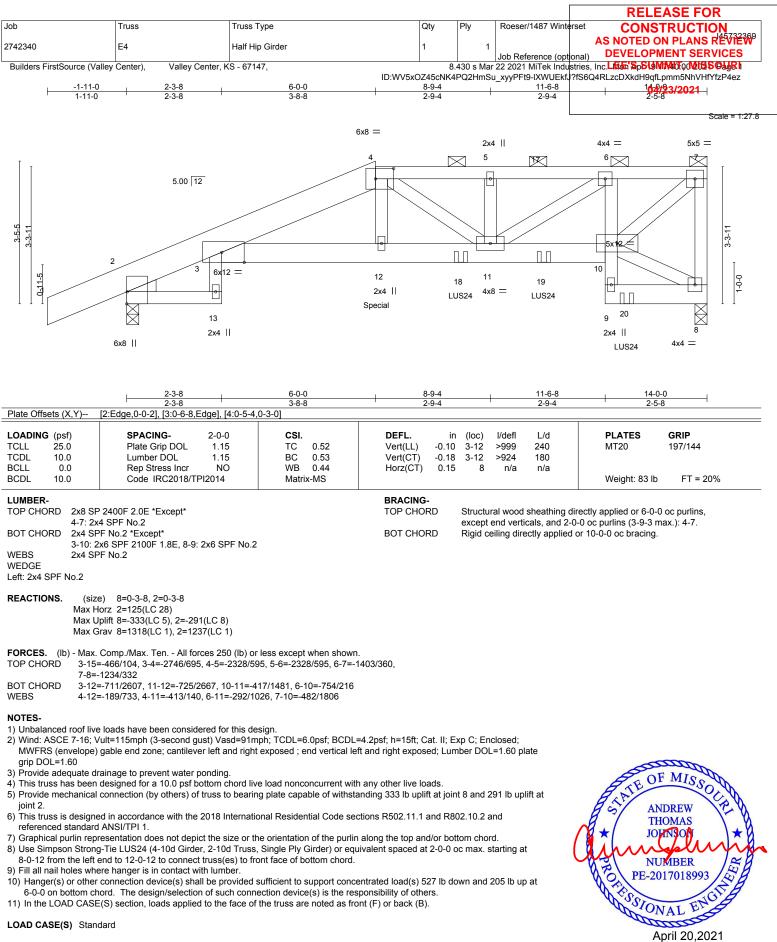
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 167 lb uplift at joint 7 and 122 lb uplift at joint 2.

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.



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Continued on page 2

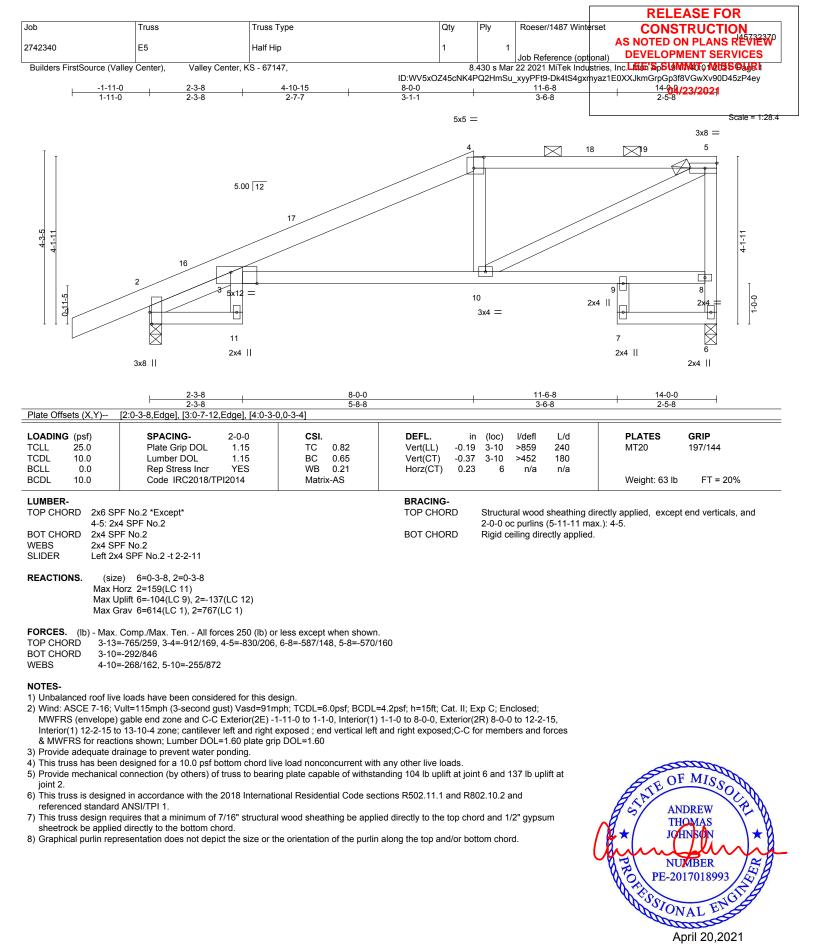
								RELEASE FOR
Job	Truss	Truss Type		Qty	Ply	Roeser/1487 Winte	erset	CONSTRUCTION AS NOTED ON PLANS REVIEW
2742340	E4	Half Hip Girder		1	1		/	AS NOTED ON PLANS REVIEW
2112010				•		Job Reference (opt		DEVELOPMENT SERVICES
Builders FirstSource (Vall	ey Center), Valley Center,	KS - 67147,		8	.430 s Mar	22 2021 MiTek Indu	stries, li	nc.Litter'SpS10MM0T00MUSSOUBL
			ID:WV5xC	Z45cNK4	PQ2HmSu	_xyyPFt9-IXWUEkf	?fS6Q4	4RLzcDXkdH9qfLpmm5NhVHfYfzP4ez
								04/23/2021
LOAD CASE(S) Standa								
 Dead + Roof Live (bal 	anced): Lumber Increase=1.	15, Plate Increase=1.15						

Uniform Loads (plf) Vert: 1-3=-70, 3-4=-70, 4-7=-70, 13-14=-20, 3-10=-20, 8-9=-20

Concentrated Loads (lb)

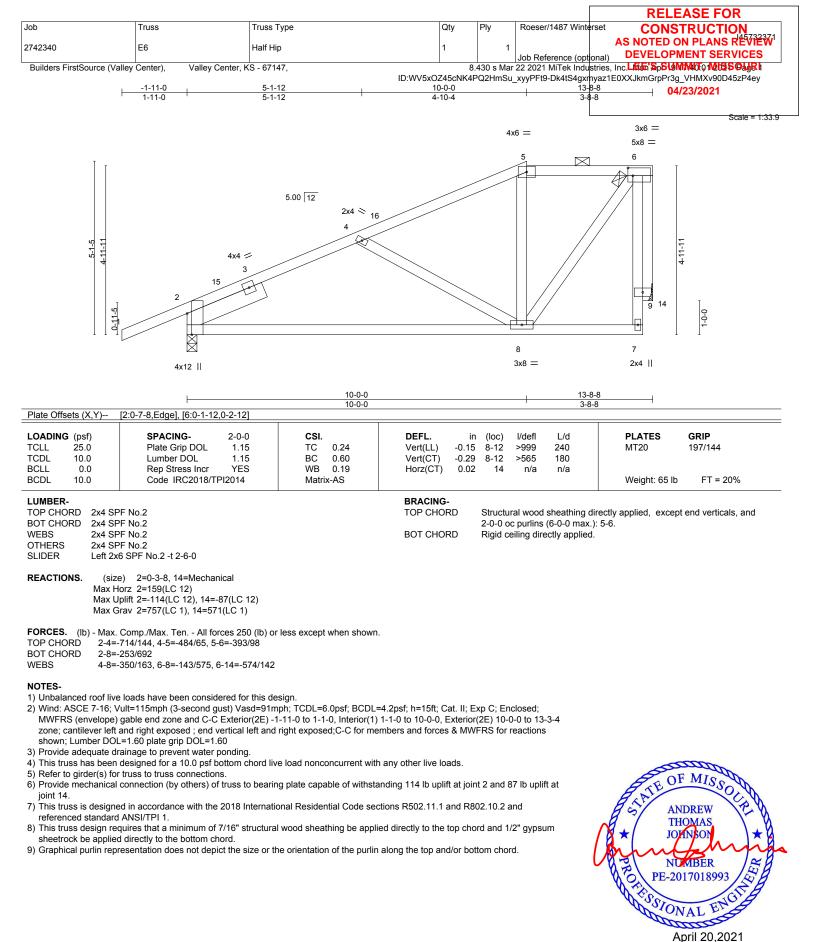
Vert: 12=-527(F) 18=-216(F) 19=-216(F) 20=-216(F)











Mitek° 16023 Swingley Ridge Rd Chesterfield, MO 63017

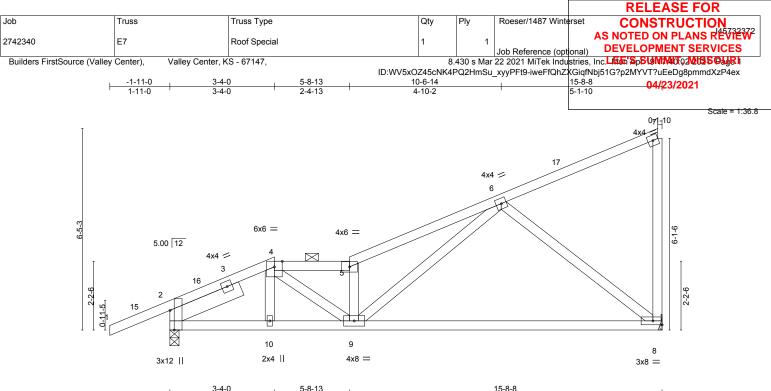


Plate Offsets (X,Y) [2:0-7-8,Edge], [7:0-0-1,0-0-0] LOADING (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) TCLL 25.0 Plate Grip DOL 1.15 TC 0.38 Vert(LL) -0.23 8	loc) l/defl L/d	
	loc) l/defl l/d	
TCL 25.0 Plate Crip DOL 1.15 TC 0.39 Vort(L) 0.23		PLATES GRIP
TOLL 20.0 FIGLE OIL 1.10 TO 0.00 VEIL(LL) -0.20 0	8-9 >822 240	MT20 197/144
TCDL 10.0 Lumber DOL 1.15 BC 0.68 Vert(CT) -0.46 8	8-9 >402 180	
BCLL 0.0 Rep Stress Incr YES WB 0.53 Horz(CT) 0.02	8 n/a n/a	
BCDL 10.0 Code IRC2018/TPI2014 Matrix-AS		Weight: 72 lb FT = 20%

 LUMBER BRACING

 TOP CHORD
 2x4 SPF No.2
 TOP CHORD
 Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-10-12 max.): 4-5.

 WEBS
 2x4 SPF No.2
 BOT CHORD
 Rigid ceiling directly applied.

 SLIDER
 Left 2x6 SPF No.2 - t 2-6-0
 BOT CHORD
 Rigid ceiling directly applied.

REACTIONS. (size) 8=Mechanical, 2=0-3-8 Max Horz 2=247(LC 11) Max Uplift 8=-147(LC 12), 2=-143(LC 12) Max Grav 8=692(LC 1), 2=843(LC 1)

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

- TOP CHORD 2-4=-931/156, 4-5=-1370/192, 5-6=-1480/238
- BOT CHORD 2-10=-327/823, 9-10=-325/830, 8-9=-201/593
- WEBS 4-9=-65/681, 5-9=-825/180, 6-9=-124/945, 6-8=-733/218

NOTES-

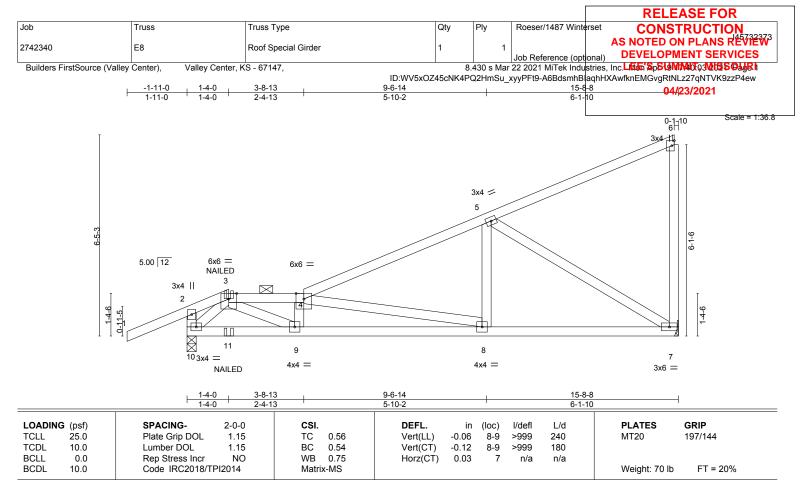
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-11-0 to 1-1-0, Interior(1) 1-1-0 to 3-4-0, Exterior(2E) 3-4-0 to 5-8-13, Interior(1) 5-8-13 to 15-6-12 zone; cantilever left and 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 147 lb uplift at joint 8 and 143 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.







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LUMBER-
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TOP CHORD 2x4 SPF No 2 BOT CHORD WEBS

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

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 5-7-8 oc purlins, except end verticals, and 2-0-0 oc purlins (4-9-13 max.): 3-4. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. 7=Mechanical, 10=0-3-8 (size) Max Horz 10=253(LC 25) Max Uplift 7=-147(LC 8), 10=-175(LC 8) Max Grav 7=676(LC 1), 10=745(LC 1)

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

3-4=-1475/242, 4-5=-900/129 TOP CHORD

BOT CHORD 9-10=-221/461, 8-9=-330/1533, 7-8=-140/768

3-9=-165/1134, 4-9=-468/122, 4-8=-780/194, 5-8=0/380, 5-7=-882/223, 3-10=-728/100 WEBS

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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 147 lb uplift at joint 7 and 175 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

8) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.

9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

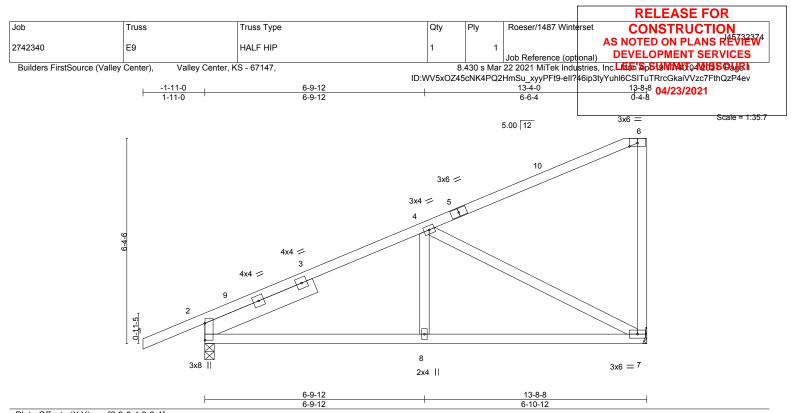
LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-6=-70, 7-10=-20 Concentrated Loads (lb)

Vert: 3=55(F) 11=56(F)







LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc)	l/defl L/c	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.53	Vert(LL) -0.05	7-8	>999 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.41	Vert(CT) -0.11	7-8	>999 180		
BCLL 0.0	Rep Stress Incr YES	WB 0.74	Horz(CT) 0.01	7	n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S				Weight: 60 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 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.
SLIDER	Left 2x6 SPF No.2 -t 3-8-14		

REACTIONS. (size) 7=Mechanical, 2=0-3-8 Max Horz 2=233(LC 12) Max Uplift 7=-160(LC 12), 2=-98(LC 12) Max Grav 7=601(LC 1), 2=754(LC 1)

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

TOP CHORD 2-4=-868/56

BOT CHORD 2-8=-195/677, 7-8=-195/677

WEBS 4-8=0/309, 4-7=-739/214

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) -1-11-0 to 1-1-0, Interior(1) 1-1-0 to 13-6-12 zone; cantilever left and right 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 160 lb uplift at joint 7 and 98 lb uplift at joint 2.

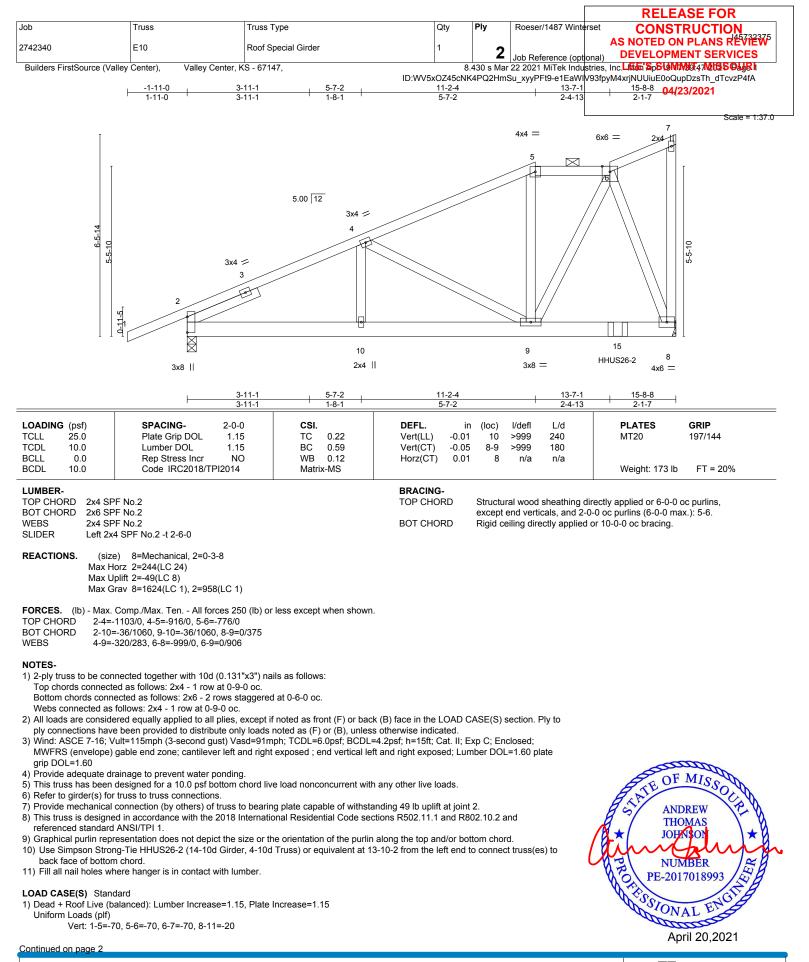
5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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



16023 Swingley Ridge Rd Chesterfield, MO 63017





						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Roeser/1487 Winte	AS NOTED ON PLANS REVIEW
2742340	E10	Roof Special Girder	1			AS NOTED ON PLANS REVIEW
2142540				2	Job Reference (opt	
Builders FirstSource (Valle	y Center), Valley Center,	S - 67147,		8.430 s Ma	ar 22 2021 MiTek Indu	stries, Inc. Little SpS19MIMBE 47003504982
			ID:WV5xOZ45cN	K4PQ2Hn	nSu_xyyPFt9-e1EaWI	V93fpyM4xrjNUUiuE0oQupDzsTh_dTcvzP4fA
						04/23/2021
LOAD CASE(S) Standar						
Concentrated Loads (It))					

Concentrated Loads (lb) Vert: 15=-1048(B)



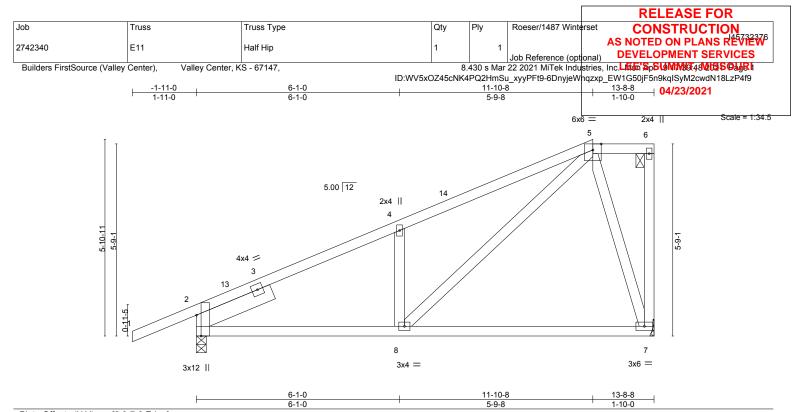


Plate Offsets (X,Y)	[2:0-7-8,Edge]						
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.33 BC 0.37 WB 0.32	DEFL. i Vert(LL) -0.09 Vert(CT) -0.18 Horz(CT) 0.07	8 7-8 >894	L/d 240 180 n/a	PLATES MT20	GRIP 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS				Weight: 64 lb	FT = 20%
LUMBER- TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2		BRACING- TOP CHORD	Structural wood 2-0-0 oc purlins		rectly applied, except	end verticals, and	
WEBS 2x4 SP	F No.2 6 SPF No.2 -t 2-6-0		BOT CHORD	Rigid ceiling dire	` '		

REACTIONS. (size) 7=Mechanical, 2=0-3-8 Max Horz 2=203(LC 12) Max Uplift 7=-123(LC 12), 2=-108(LC 12) Max Grav 7=601(LC 25), 2=754(LC 1)

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

TOP CHORD 2-4=-798/177, 4-5=-826/180

BOT CHORD 2-8=-200/693

WEBS 4-8=-362/194, 5-7=-559/238, 5-8=-200/716

NOTES-

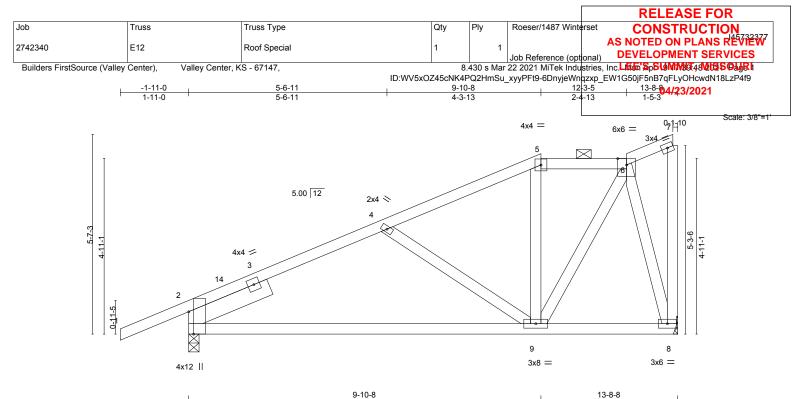
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-11-0 to 1-1-0, Interior(1) 1-1-0 to 11-10-8, Exterior(2E) 11-10-8 to 13-6-12 zone; cantilever left and right exposed ; end vertical left 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 123 lb uplift at joint 7 and 108 lb uplift at joint 2.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.







	0

9-	10-0	
9-'	10-8	

DL 10.0 CLL 0.0 DL 10.0	Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	BC 0.57 WB 0.24 Matrix-AS	Vert(CT) -0.28 Horz(CT) 0.02	9-12 >581 2 n/a	180 n/a	Weight: 67 lb FT = 20%
DADING (psf) CLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.24	DEFL. ir Vert(LL) -0.14	()	L/d 240	PLATES GRIP MT20 197/144

WEBS 2x4 SPF No.2 SLIDER Left 2x6 SPF No.2 -t 2-6-0 BOT CHORD Rigid ceiling directly applied.

3-10-0

REACTIONS. (size) 8=Mechanical, 2=0-3-8 Max Horz 2=214(LC 11) Max Uplift 8=-127(LC 12), 2=-131(LC 12) Max Grav 8=601(LC 1), 2=754(LC 1)

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

- 2-4=-680/155, 4-5=-478/118, 5-6=-390/131 TOP CHORD
- BOT CHORD 2-9=-311/667

WEBS 4-9=-337/174, 6-9=-152/499, 6-8=-568/169

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) -1-11-0 to 1-1-0, Interior(1) 1-1-0 to 9-10-8, Exterior(2E) 9-10-8 to 12-3-5, Interior(1) 12-3-5 to 13-6-12 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
- 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.

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

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 127 lb uplift at joint 8 and 131 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.





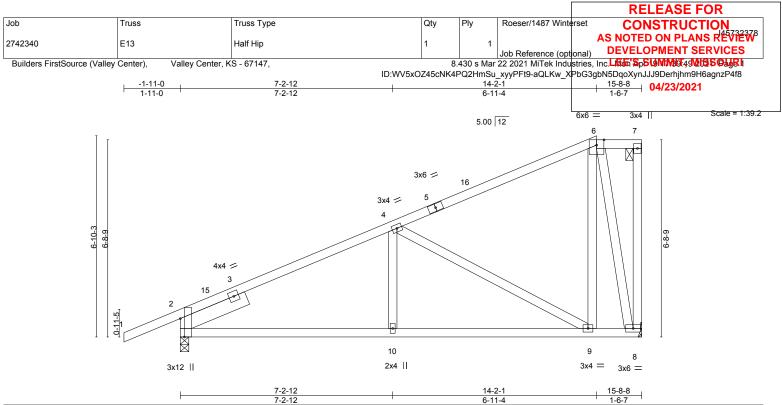


Plate Offsets (X,Y)-- [2:0-7-8,Edge]

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 0.42	Vert(LL) -0.04 9-10 >999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.36	Vert(CT) -0.10 9-10 >999 180	
BCLL 0.0	Rep Stress Incr YES	WB 0.74	Horz(CT) 0.02 8 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 78 lb FT = 20%
			BRACING.	

LUMBER-		
TOP CHORD	2x4 SPF No.2	
BOT CHORD	2x4 SPF No.2	
WEBS	2x4 SPF No.2	
SLIDER	Left 2x6 SPF No.2 -t 2-6-0	

 TOP CHORD
 Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 6-7.

 BOT CHORD
 Rigid ceiling directly applied.

REACTIONS. (size) 8=Mechanical, 2=0-3-8 Max Horz 2=258(LC 11) Max Uplift 8=-128(LC 12), 2=-140(LC 12) Max Grav 8=692(LC 1), 2=843(LC 1)

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

- TOP CHORD 2-4=-816/154, 4-6=-294/109
- BOT CHORD 2-10=-274/813, 9-10=-274/813
- WEBS 4-10=0/278, 4-9=-721/212, 6-9=-73/463, 6-8=-793/237

NOTES-

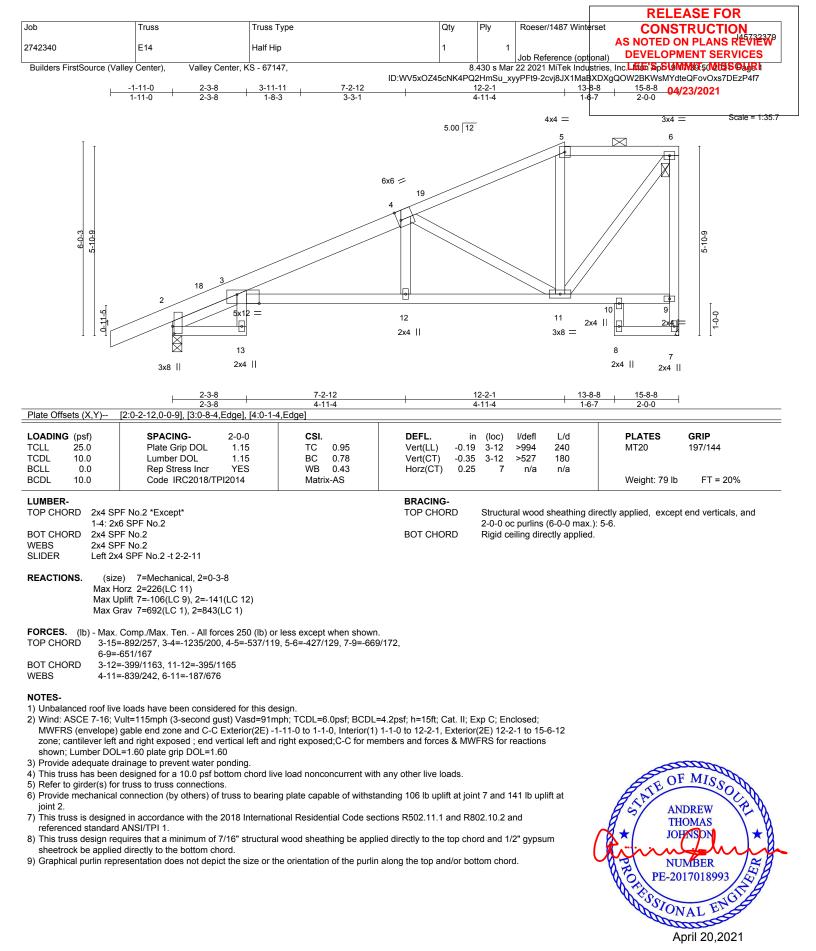
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-11-0 to 1-1-0, Interior(1) 1-1-0 to 14-2-1, Exterior(2E) 14-2-1 to 15-6-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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.

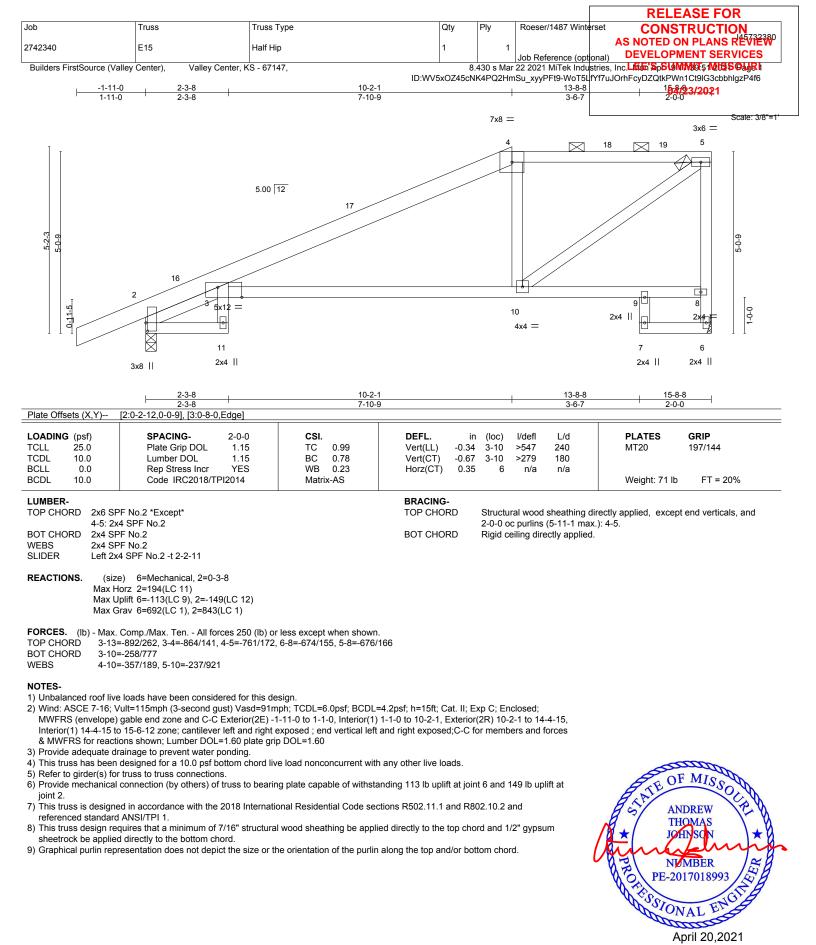
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 128 lb uplift at joint 8 and 140 lb uplift at joint 2.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 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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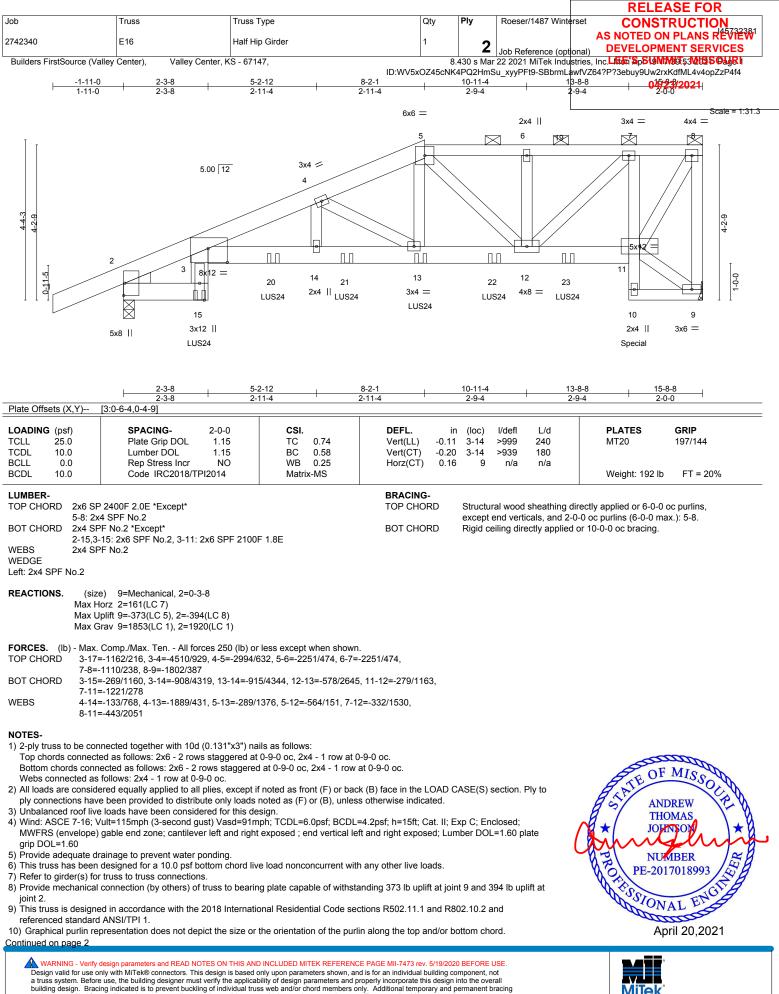












WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIT-74/3 rev. 5/19/2020 BE-ORE USE. Design valid for use only with MITER® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

16023 Swingley Ridge Rd Chesterfield, MO 63017

						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Roeser/1487 Winte	AS NOTED ON PLANS REVIEW
2742340	E16	Half Hip Girder	1	2		
					Job Reference (opt	
Builders FirstSource (Valle	y Center), Valley Center, I	(S - 67147,	8	3.430 s Mar	22 2021 MiTek Indu	stries, Inc. Little SpS19MINDE53WUSSO4982
			ID:W/V5xO745cNk	(4PO2HmS	u xvvPFt9-SBhrml	wfV/7642P23ebuv9l lw2rxKdfMl 4v4on7zP4f4

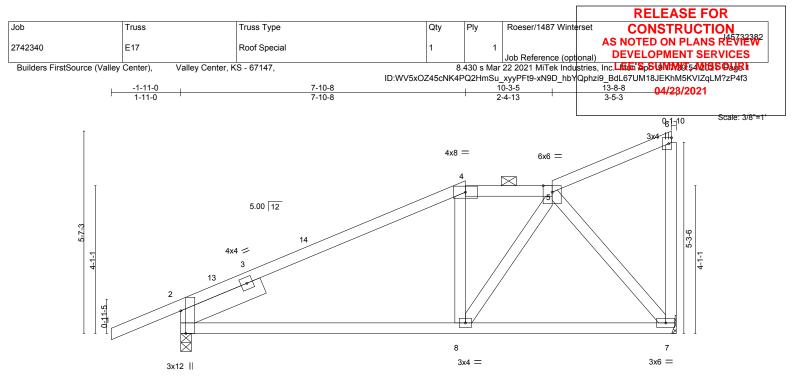
NOTES-

- 04/23/2021 11) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 4-0-12 to connect truss(es) to back face of bottom chord.
- 12) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 6-0-12 from the left end to 12-0-12 to connect truss(es) to back face of bottom chord.
- 13) Fill all nail holes where hanger is in contact with lumber.
- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 330 lb down and 80 lb up at 13-10-4 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: 1-3=-70, 3-5=-70, 5-8=-70, 15-16=-20, 3-11=-20, 9-10=-20
 - Concentrated Loads (lb)
 - Vert: 15=-318(B) 13=-316(B) 11=-330(B) 20=-316(B) 21=-316(B) 22=-321(B) 23=-321(B)





7-10-8 7-10-8

1

13-8-8	
5-10-0	

COADING (psf) CLL 25.0 CDL 10.0 3CLL 0.0 3CDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.46 BC 0.38 WB 0.27 Matrix-AS	DEFL. Vert(LL) -0.0 Vert(CT) -0.0 Horz(CT) 0.0	1 8-11	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 59 lb	GRIP 197/144 FT = 20%
LUMBER- TOP CHORD 2x4 S	PF No.2 PF No.2		BRACING- TOP CHORD			sheathing di	rectly applied, except	
WEBS 2x4 S	PF No.2		BOT CHORD	Riaid (ceiling dir	ectly applied.		

REACTIONS. (size) 2=0-3-8, 7=Mechanical Max Horz 2=214(LC 11) Max Uplift 2=-131(LC 12), 7=-127(LC 12) Max Grav 2=754(LC 1), 7=601(LC 1)

Left 2x6 SPF No.2 -t 2-6-0

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

TOP CHORD 2-4=-657/182, 4-5=-592/162

BOT CHORD 2-8=-259/587, 7-8=-176/390

WEBS 5-8=-163/367, 5-7=-587/191

NOTES-

SLIDER

 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) -1-11-0 to 1-1-0, Interior(1) 1-1-0 to 7-10-8, Exterior(2E) 7-10-8 to 10-3-5, Interior(1) 10-3-5 to 13-6-12 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.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 131 lb uplift at joint 2 and 127 lb uplift at joint 7.

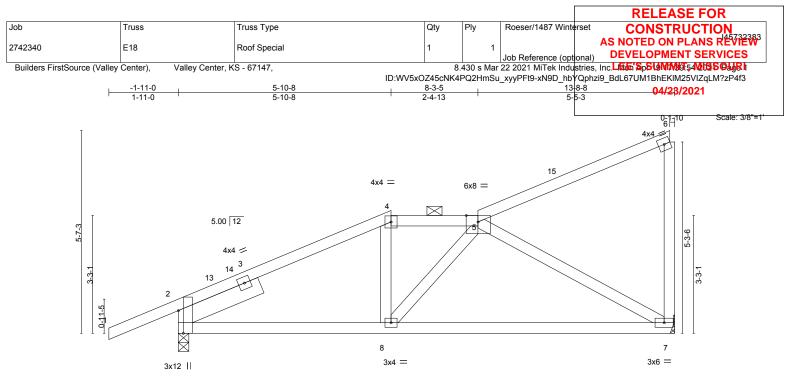
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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.







			5-10-8 5-10-8	8-3			<u>13-8-8</u> 5-5-3	3	—	
Plate Offsets (X,Y)	[2:0-7-8,Edge], [5:0-3-1	4,Edge], [6:0-0-	1,0-0-0]							
LOADING (psf) TCLL 25.0	SPACING- Plate Grip DOL	2-0-0 1.15	CSI. TC 0.30	DEFL. Vert(LL)	in (loc) -0.11 7-8	l/defl >999	L/d 240	PLATES MT20	GRIP 197/144	

Vert(CT)

-0.22

7-8 >755

180

).0).0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.48 Matrix-AS	Horz(CT) 0.0	17	n/a	n/a	Weight: 59 lb	FT = 20%
LUMBER- TOP CHORD	2x4 SP	F No.2		BRACING- TOP CHORD			0	rectly applied, except e	end verticals, and
BOT CHORD WEBS	2x4 SP 2x4 SP			BOT CHORD			(6-0-0 max.) ectly applied.		
SLIDER	Left 2x	6 SPF No.2 -t 2-6-0			<u>g</u>				

REACTIONS. (size) 7=Mechanical, 2=0-3-8 Max Horz 2=195(LC 12) Max Uplift 7=-145(LC 12), 2=-112(LC 12) Max Grav 7=601(LC 1), 2=754(LC 1)

Lumber DOL

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

TOP CHORD 2-4=-796/232, 4-5=-683/129

BOT CHORD 2-8=-215/688, 7-8=-187/649

WEBS 5-7=-716/211

NOTES-

TCDL

10.0

 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) -1-11-0 to 1-1-0, Interior(1) 1-1-0 to 5-10-8, Exterior(2E) 5-10-8 to 8-3-5, Interior(1) 8-3-5 to 13-6-12 zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

BC

0.44

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.

1.15

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

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 145 lb uplift at joint 7 and 112 lb uplift at joint 2.

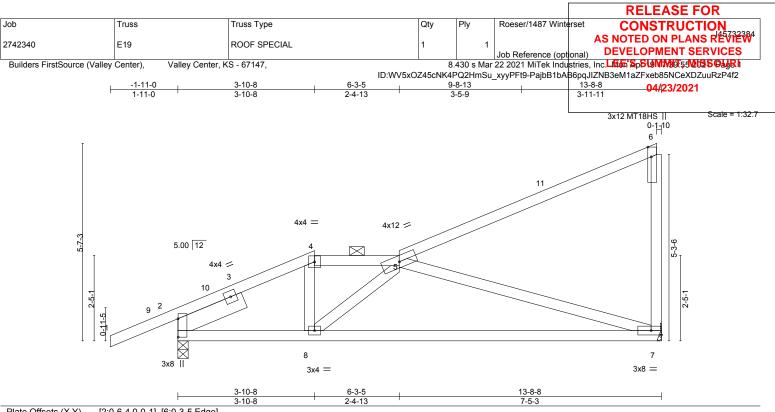
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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.







CLL 25.0 CDL 10.0 SCLL 0.0 SCDL 10.0	Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	TC 0.72 BC 0.75 WB 1.00 Matrix-S	Vert(LL) -0.27 7-8 >612 240 Vert(CT) -0.54 7-8 >302 180 Horz(CT) 0.02 7 n/a n/a	MT20 197/144 MT18HS 197/144 Weight: 58 lb FT = 20%
OADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP

TOP CHORD

BOT CHORD

LUMBER-

2x4 SPF No.2 TOP CHORD BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2 SLIDER Left 2x6 SPF No.2 -t 2-0-13

REACTIONS. (size) 7=Mechanical, 2=0-3-8 Max Horz 2=198(LC 12) Max Uplift 7=-144(LC 12), 2=-112(LC 12)

Max Grav 7=598(LC 1), 2=754(LC 1)

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

TOP CHORD 2-4=-970/62, 4-5=-748/86

BOT CHORD 2-8=-200/771 7-8=-250/955

WEBS 4-8=0/360, 5-8=-273/90, 5-7=-952/253

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) -1-11-0 to 1-1-0, Interior(1) 1-1-0 to 3-10-8, Exterior(2E) 3-10-8 to 6-3-5, Interior(1) 6-3-5 to 13-6-3 zone; cantilever left and right 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) Provide adequate drainage to prevent water ponding.

3) All plates are MT20 plates unless otherwise indicated

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

5) 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 7 and 112 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.

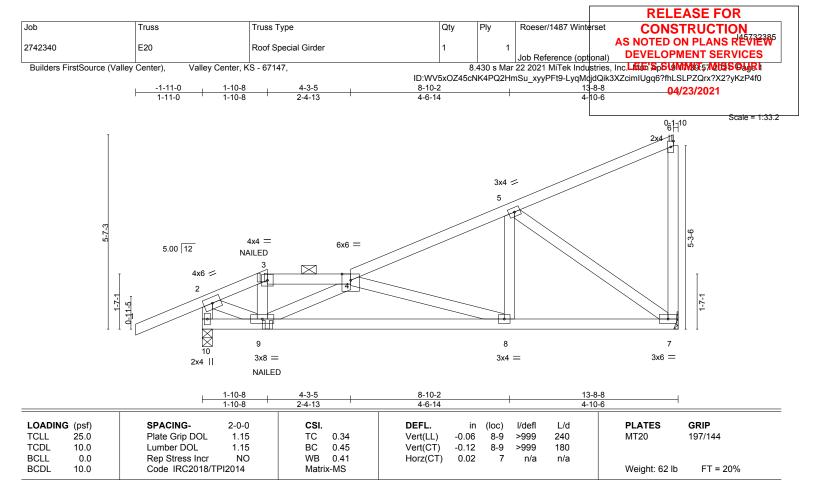


Structural wood sheathing directly applied or 5-2-3 oc purlins,

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

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





LUMBER-

TOP CHORD2x4 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, and 2-0-0 oc purlins (6-0-0 max.): 3-4. Rigid ceiling directly applied or 6-0-0 oc bracing.

- REACTIONS. (size) 7=Mechanical, 10=0-3-8 Max Horz 10=186(LC 8) Max Uplift 7=-148(LC 8), 10=-147(LC 8) Max Grav 7=584(LC 1), 10=699(LC 1)
- FORCES. (lb) Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown.
- TOP CHORD 2-3=-598/80, 3-4=-509/82, 4-5=-703/49, 2-10=-722/129
- BOT CHORD 8-9=-314/1124, 7-8=-148/598
- WEBS 4-8=-548/173, 5-8=0/352, 5-7=-721/178, 2-9=-72/679, 4-9=-705/111

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 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.

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 148 lb uplift at joint 7 and 147 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

- 8) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

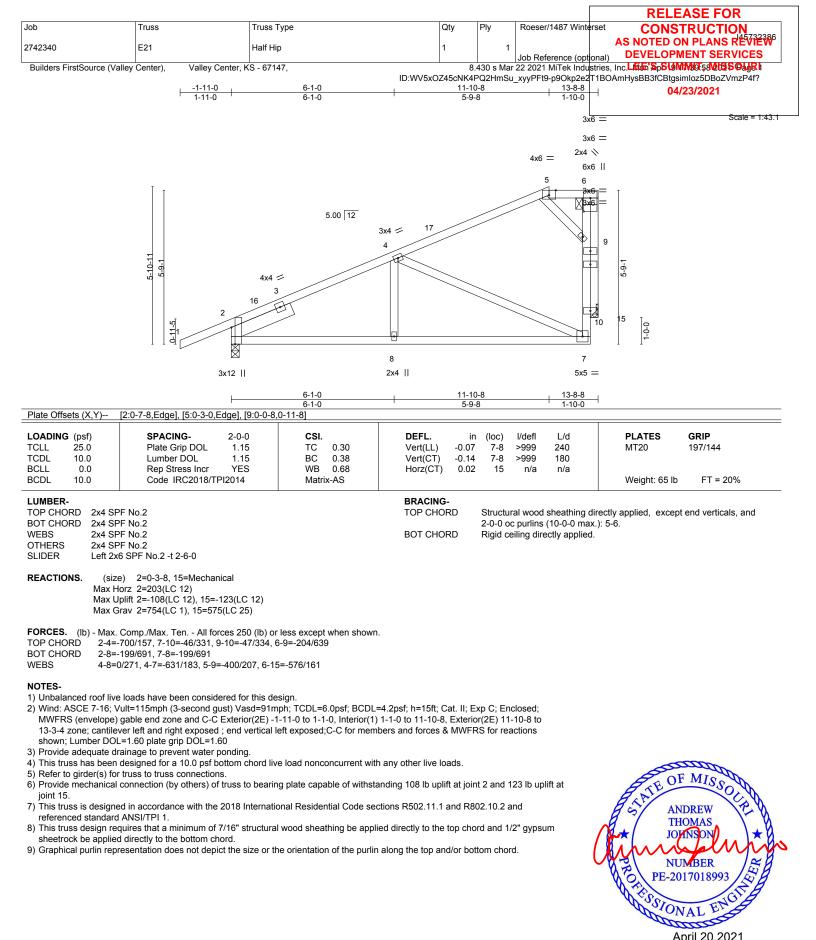
LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-6=-70, 7-10=-20 Concentrated Loads (lb)

Vert: 3=34(B) 9=35(B)





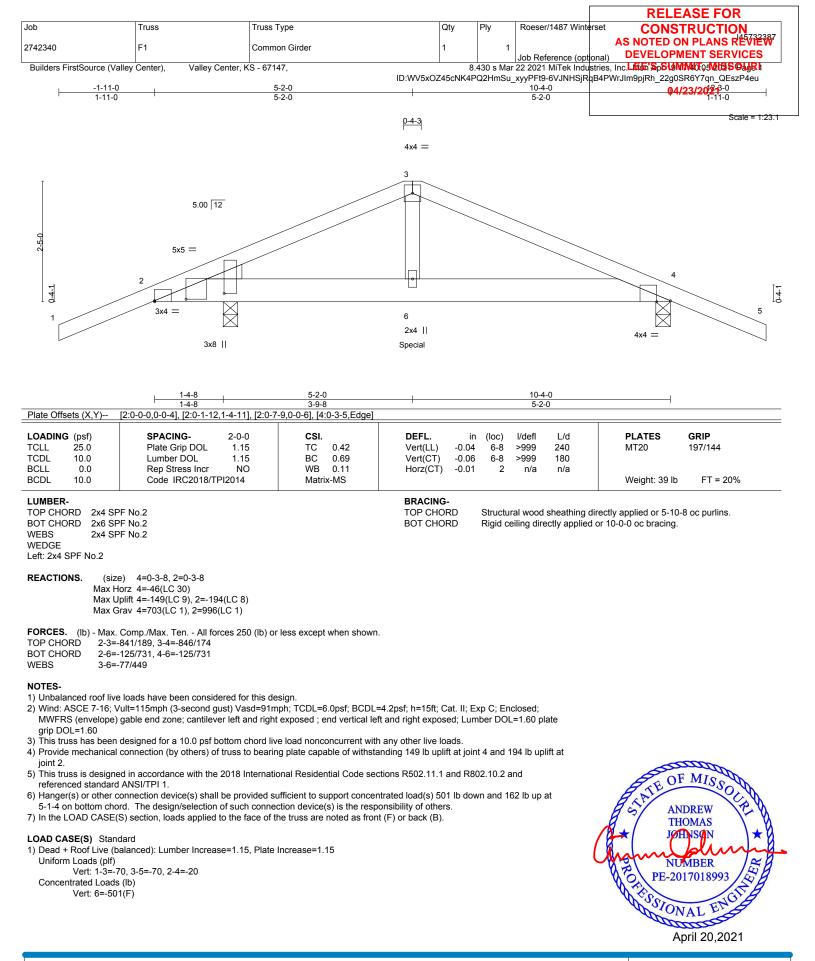




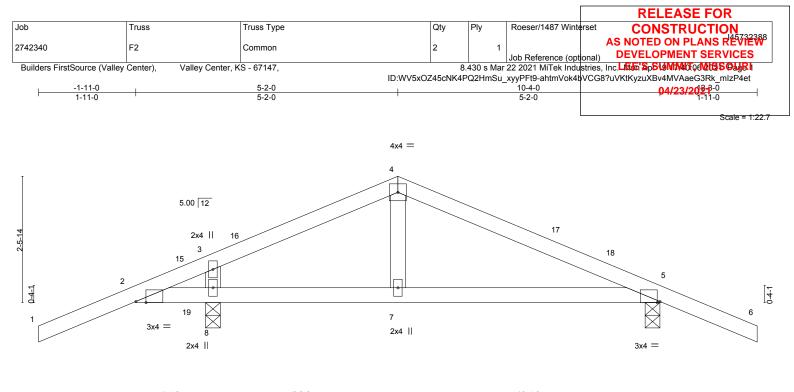


E

April 20,2021







	1-4-8		5-2-0	1		10-4-	D	1	
	1-4-8		3-9-8			5-2-0)	1	
Plate Offsets (X,Y)	[2:0-2-6,Edge], [5:0-0-10	,Edge]							
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 0.54	Vert(LL) -0.	.06 7-14	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.64	Vert(CT) -0.	.11 7-14	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.06	Horz(CT) -0.	.00 8	n/a	n/a		
BCDL 10.0	Code IRC2018/TF	PI2014	Matrix-AS					Weight: 32 lb	FT = 20%
LUMBER-				BRACING-					

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

REACTIONS. (size) 5=0-3-8, 8=0-3-8 Max Horz 5=-47(LC 13) Max Uplift 5=-95(LC 13), 8=-126(LC 8)

Max Grav 5=496(LC 1), 8=703(LC 1)

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

3-4=-333/74, 4-5=-333/71 TOP CHORD

WEBS 3-8=-445/278

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) -1-11-0 to 1-1-0, Interior(1) 1-1-0 to 5-2-0, Exterior(2R) 5-2-0 to 8-2-0, Interior(1) 8-2-0 to 12-3-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

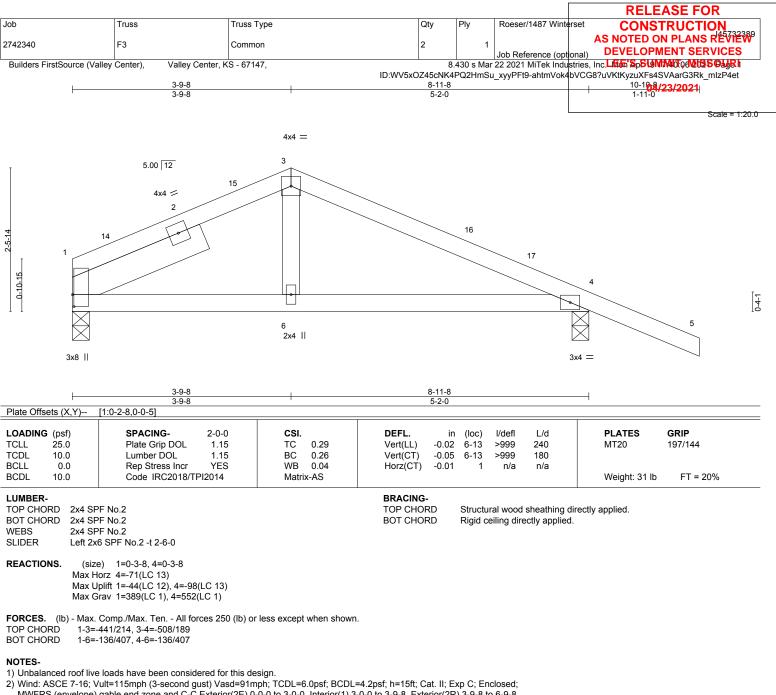
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 95 lb uplift at joint 5 and 126 lb uplift at joint 8.

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) 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.







MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 3-9-8, Exterior(2R) 3-9-8 to 6-9-8, Interior(1) 6-9-8 to 10-10-8 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.

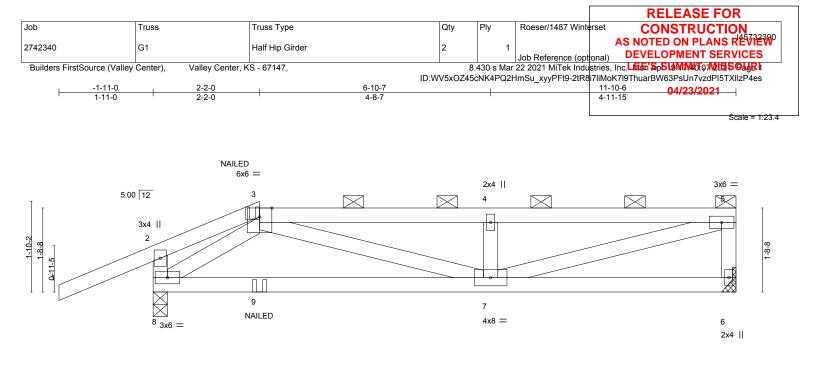
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 1 and 98 lb uplift at joint 4.

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.

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.







	2-2-0	<u>6-10-7</u> 4-8-7	<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 0.34 Vert/(LL) -0	0.06 7-8 >999 240 MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.36 Vert(CT) -0	0.13 7-8 >999 180
BCLL 0.0	Rep Stress Incr NO	WB 0.26 Horz(CT) 0	0.01 6 n/a n/a Weight: 46 lb FT = 20%
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS	

TOP CHORD2x4 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, and 2-0-0 oc purlins (5-3-6 max.): 3-5. Rigid ceiling directly applied or 10-0-0 oc bracing.

- REACTIONS. (size) 6=Mechanical, 8=0-3-8 Max Horz 8=68(LC 7) Max Uplift 6=-94(LC 5), 8=-134(LC 4) Max Grav 6=505(LC 22), 8=663(LC 1)
- FORCES. (lb) Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown.
- TOP CHORD 3-4=-1107/193, 4-5=-1105/192, 5-6=-458/106
- BOT CHORD 7-8=-141/498
- WEBS 3-7=-118/703, 4-7=-382/136, 5-7=-193/1078, 3-8=-658/165

NOTES-

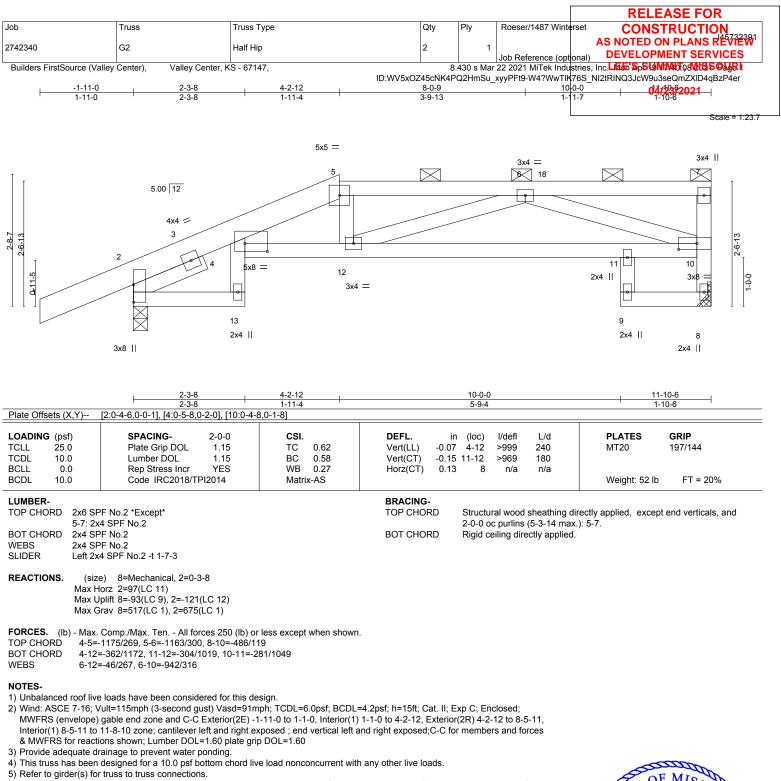
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed;
- MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber 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 94 lb uplift at joint 6 and 134 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) 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 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)
 - Vert: 1-2=-70, 2-3=-70, 3-5=-70, 6-8=-20 Concentrated Loads (lb) Vert: 9=18(B)







6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 93 lb uplift at joint 8 and 121 lb uplift at joint 2.

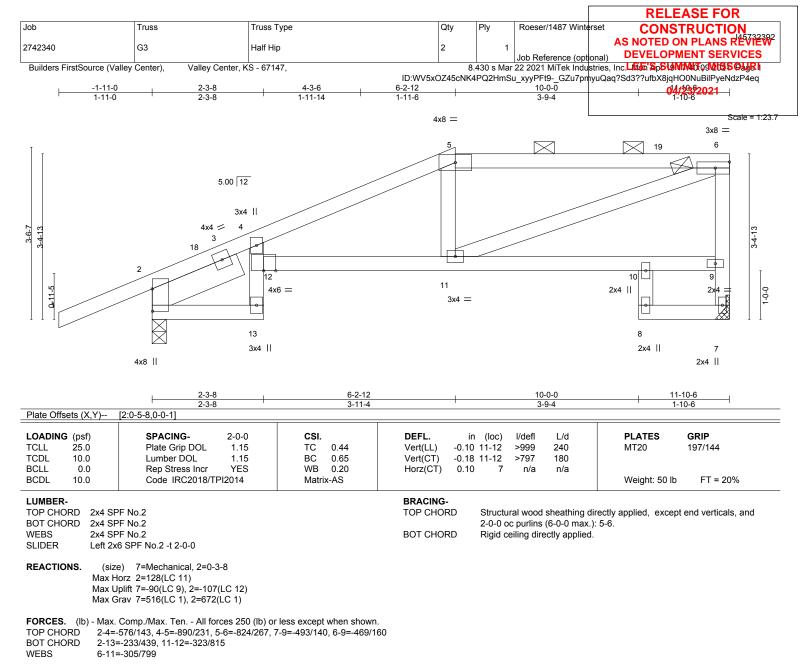
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

9) 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



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) -1-11-0 to 1-1-0, Interior(1) 1-1-0 to 6-2-12, Exterior(2R) 6-2-12 to 10-5-11, Interior(1) 10-5-11 to 11-8-10 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) 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 90 lb uplift at joint 7 and 107 lb uplift at joint 2.

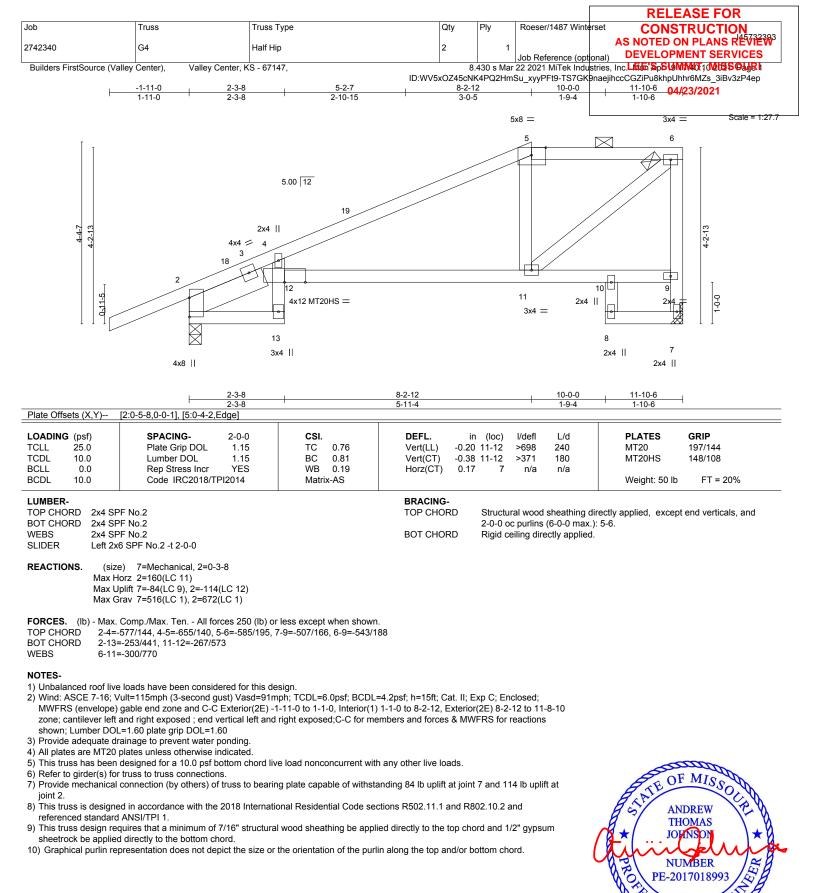
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

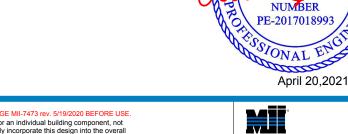
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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





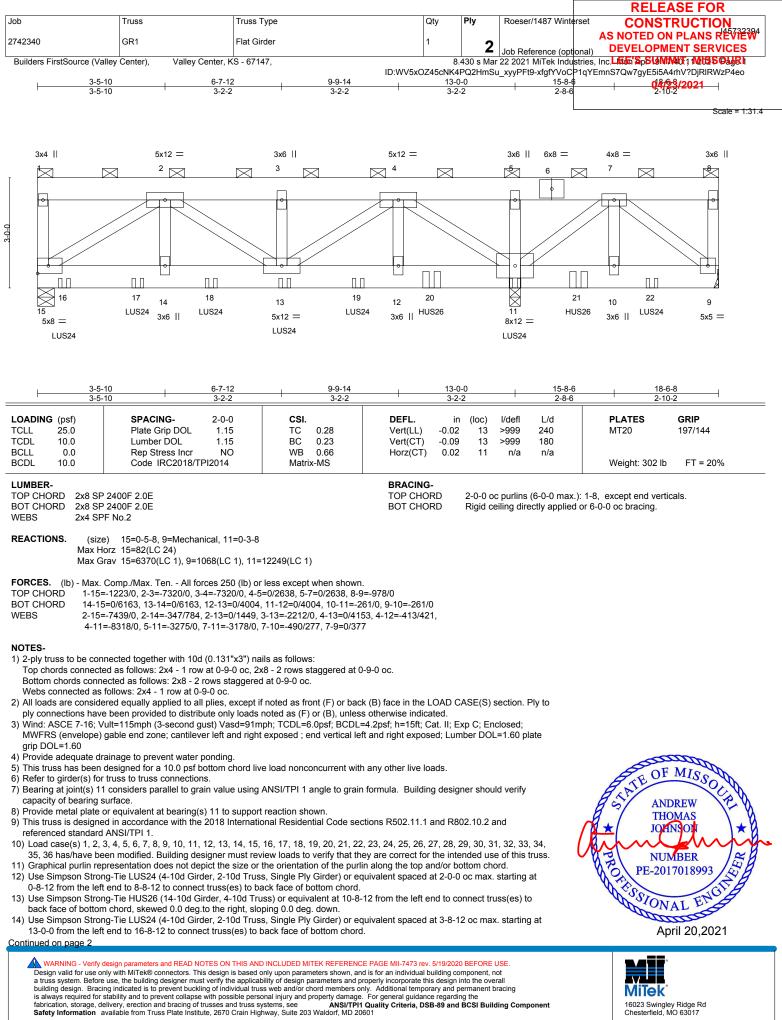




WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

E



						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Roeser/1487 Wint	
2742340	GR1	Flat Girder	1			AS NOTED ON PLANS REVIEW
			'	2	Job Reference (opt	tional) DEVELOPMENT SERVICES
Builders FirstSource (Valley	Center), Valley Center, H	KS - 67147,		400 5 Mai	ZZ ZUZ I WITEK IIIUU	stries, Inc.Lttdo: SpS19MM0011M05904982 P1qYEmnS7Qw7gyE5i5A4rhV?DjRIRWzP4eo
NOTES-						04/23/2021
	hanger is in contact with lur	-10d Truss) or equivalent at 14-8-12 fi nber.	rom the left end to co	onnect tru	ss(es) to back face	of bottom chord.
,						
 LOAD CASE(S) Standard Dead + Roof Live (balar 	nced): Lumber Increase=1.1	5, Plate Increase=1.15				
Uniform Loads (plf)	,					
Vert: 1-8=-770, Concentrated Loads (lb)						
	3) 11=-586(B) 16=-585(B) 17 balanced): Lumber Increase	7=-581(B) 18=-586(B) 19=-586(B) 20=	-586(B) 21=-586(B)	22=-586(B)	
Uniform Loads (plf)	balanceu). Lumber increase	-1.15, Flate Increase-1.15				
Vert: 1-8=-758,						
Concentrated Loads (lb) Vert: 13=-504(E		7=-498(B) 18=-504(B) 19=-504(B) 20=	504(B) 21=-504(B)	22=-504(B)	
 Dead + Uninhabitable A Uniform Loads (plf) 	ttic Without Storage: Lumbe	r Increase=1.25, Plate Increase=1.25				
Vert: 1-8=-720,	9-15=-40					
Concentrated Loads (lb)		7=-364(B) 18=-378(B) 19=-378(B) 20=	-378(B) 21=-377(B)	22=-377(B)	
	, , , , , ,	per Increase=1.60, Plate Increase=1.6		22=-577(0)	
Uniform Loads (plf) Vert: 1-8=-675,	9-158					
Horz: 1-15=15,						
Concentrated Loads (lb)		4(B) 18=96(B) 19=96(B) 20=96(B) 21:	-01/B) 22=01/B)			
()	()	ber Increase=1.60, Plate Increase=1.	., .,			
Uniform Loads (plf) Vert: 1-8=-675,	9-158					
Horz: 1-15=-19	, 8-9=-15					
Concentrated Loads (lb)		4(B) 18=96(B) 19=96(B) 20=96(B) 21:	-01/B) 22=01/B)			
		per Increase=1.60, Plate Increase=1.6	., .,			
Uniform Loads (plf) Vert: 1-8=-694,	9-15=-20					
Horz: 1-15=26,						
Concentrated Loads (lb)		126(B) 18=107(B) 19=107(B) 20=107	(B) 21=102(B) 22=1(12(B)		
7) Dead + 0.6 MWFRS Win	, , , , , , , , , , , , , , , , , , , ,	nber Increase=1.60, Plate Increase=1	., .,	2(0)		
Uniform Loads (plf) Vert: 1-8=-694,	9-15=-20					
Horz: 1-15=-9,	8-9=-26					
Concentrated Loads (lb) Vert: 13=107(B		126(B) 18=107(B) 19=107(B) 20=107	(B) 21=102(B) 22=1()2(B)		
8) Dead + 0.6 MWFRS Win		I: Lumber Increase=1.60, Plate Increa		-(2)		
Uniform Loads (plf) Vert: 1-8=-675,	9-15=-8					
Horz: 1-15=13,						
Concentrated Loads (lb) Vert: 13=96(B)		4(B) 18=96(B) 19=96(B) 20=96(B) 21	=91(B) 22=91(B)			
,	nd (Pos. Internal) 2nd Parall	el: Lumber Increase=1.60, Plate Incre	ase=1.60			
Uniform Loads (plf) Vert: 1-8=-675,	9-15=-8					
Horz: 1-15=-18 Concentrated Loads (lb)						
		4(B) 18=96(B) 19=96(B) 20=96(B) 21=	=91(B) 22=91(B)			
10) Dead + 0.6 MWFRS W Uniform Loads (plf)	/ind (Pos. Internal) 3rd Paral	lel: Lumber Increase=1.60, Plate Incre	ease=1.60			
Vert: 1-8=-686						
Horz: 1-15=6, Concentrated Loads (II						
Vert: 13=96(B) 11=91(B) 16=102(B) 17=1	14(B) 18=96(B) 19=96(B) 20=96(B) 2	() ()			
11) Dead + 0.6 MWFRS W Uniform Loads (plf)	/ind (Pos. Internal) 4th Paral	lel: Lumber Increase=1.60, Plate Incre	ease=1.60			
Vert: 1-8=-686						
Horz: 1-15=-1 Concentrated Loads (II						
Vert: 13=96(B) 11=91(B) 16=102(B) 17=1	14(B) 18=96(B) 19=96(B) 20=96(B) 2	., .,			
12) Dead + 0.6 MWFRS W Uniform Loads (plf)	nnu (neg. Internal) 1st Paral	lel: Lumber Increase=1.60, Plate Incr	ease=1.60			
Vert: 1-8=-694						
Horz: 1-15=23 Concentrated Loads (II						
Vert: 13=107(B) 11=102(B) 16=111(B) 17	=126(B) 18=107(B) 19=107(B) 20=10	() ()	102(B)		
13) Deau + 0.0 WWERS W	nnu (neg. memai) znu Para	Illel: Lumber Increase=1.60, Plate Inc	Cast-1.00			

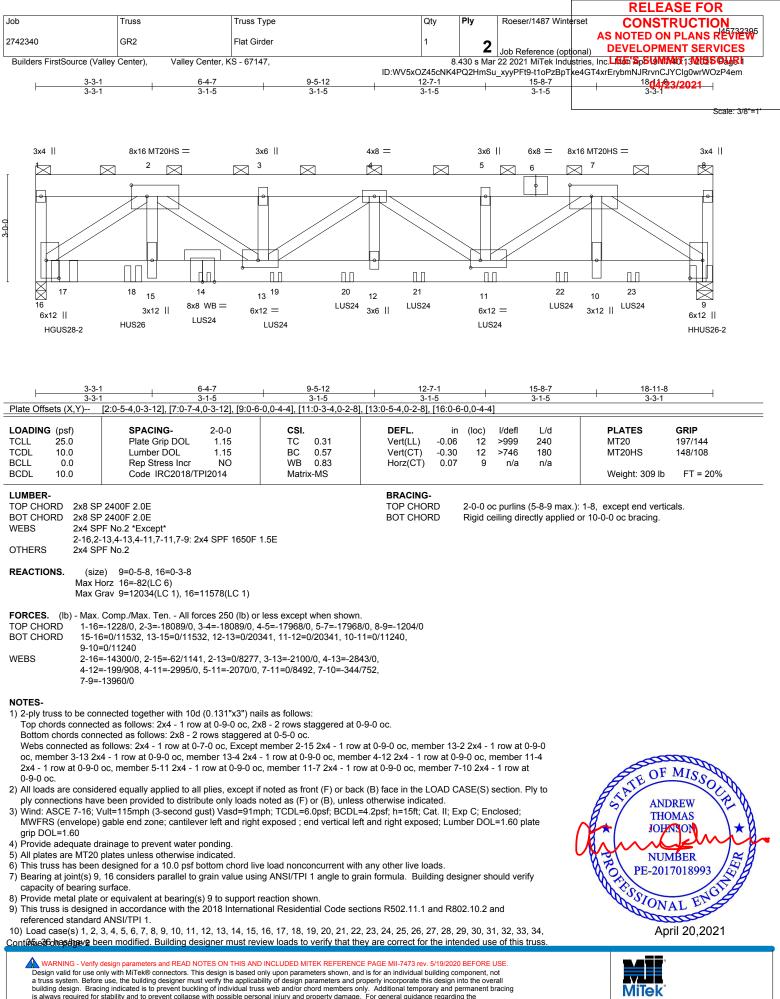


						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Roeser/1487 Wint	
2742340	GR1	Flat Girder	1	2		AS NOTED ON PLANS REVIEW
Builders FirstSource (Vall	ley Center), Valley C	enter, KS - 67147,				tional) DEVELOPMENT SERVICES
	- , , , , , , , , , , , , , , , -	,				P1qYEmnS7Qw7gyE5i5A4rhV?DjRIRWzP4eo
LOAD CASE(S) Standa	ard					04/23/2021
Uniform Loads (plf)						
Vert: 1-8=-6 Horz: 1-15=	694, 9-15=-20 7, 8-9=-23					
Concentrated Loads	s (lb)					
Vert: 13=10 14) Dead: Lumber Incre		(B) 17=126(B) 18=107(B) 19=107(B) e=0.90 Plt_metal=0.90	20=107(B) 21=102(B) 22	=102(B)		
Uniform Loads (plf)	,					
Vert: 1-8=-7 Concentrated Loads	720, 9-15=-20					
		53(B) 17=-249(B) 18=-257(B) 19=-25	57(B) 20=-257(B) 21=-257	(B) 22=-25	7(B)	
,	ive (bal.) + 0.75(0.6 MW	FRS Wind (Neg. Int) Left): Lumber In	crease=1.60, Plate Increa	se=1.60		
Uniform Loads (plf) Vert: 1-8=-7	738, 9-15=-20					
Horz: 1-15=	=19, 8-9=7					
Concentrated Loads Vert: 13=50	()	17=65(B) 18=50(B) 19=50(B) 20=50	(B) 21=47(B) 22=47(B)			
16) Dead + 0.75 Roof Li		FRS Wind (Neg. Int) Right): Lumber		ase=1.60		
Uniform Loads (plf)	738, 9-15=-20					
Horz: 1-15=	,					
Concentrated Loads		17=65(B) 18=50(B) 19=50(B) 20=50	(D) 21-47(D) 22-47(D)			
	() () ()	FRS Wind (Neg. Int) 1st Parallel): Lu	() () ()	Increase=	=1.60	
Uniform Loads (plf)						
Vert: 1-8=-7 Horz: 1-15=	738, 9-15=-20 =17, 8-9=5					
Concentrated Loads	s (lb)					
		17=65(B) 18=50(B) 19=50(B) 20=50 FRS Wind (Neg. Int) 2nd Parallel): Lu		o Incroaso	=1.60	
Uniform Loads (plf)	ive (bal.) + 0.75(0.0 WW	r Ko wind (Neg. int) zhd i arailei). Et		e increase	-1.00	
	738, 9-15=-20					
Horz: 1-15= Concentrated Loads						
		17=65(B) 18=50(B) 19=50(B) 20=50				
19) Dead + 0.6 MWFRS Uniform Loads (plf)	Wind Min. Left: Lumber	Increase=1.60, Plate Increase=1.60				
Vert: 1-8=-7	712, 9-15=-8					
Horz: 1-15= Concentrated Loads						
Vert: 13=53	B(B) 11=55(B) 16=66(B)	17=78(B) 18=53(B) 19=53(B) 20=53				
20) Dead + 0.6 MWFRS Uniform Loads (plf)	Wind Min. Right: Lumb	er Increase=1.60, Plate Increase=1.6	60			
()	712, 9-15=-8					
Horz: 8-9=-						
Concentrated Loads Vert: 13=53		17=78(B) 18=53(B) 19=53(B) 20=53	(B) 21=55(B) 22=55(B)			
	6 MWFRS Wind (Pos. I	nternal) Left: Lumber Increase=1.60,	Plate Increase=1.60			
Uniform Loads (plf) Vert: 1-8=-6	675, 9-15=-8					
Horz: 1-15=	=15, 8-9=19					
Concentrated Loads		07(B) 17=-198(B) 18=-244(B) 19=-24	L4(B) 20=-244(B) 21=-223	(B) 22=-22	3(B)	
		nternal) Right: Lumber Increase=1.60		0) 22-22	5(D)	
Uniform Loads (plf)	675, 9-15=-8					
	=-19, 8-9=-15					
Concentrated Loads	()	07/D) 17- 109/D) 19- 244/D) 10- 2/	4(P) 20- 244(P) 21- 222	(D) 00- 00	2(D)	
		07(B) 17=-198(B) 18=-244(B) 19=-24 nternal) Left: Lumber Increase=1.60,		D) 2222	3(В)	
Uniform Loads (plf)	04.045.00					
Horz: 1-15=	694, 9-15=-20 =26, 8-9=9					
Concentrated Loads	s (lb)					
		98(B) 17=-187(B) 18=-232(B) 19=-23 nternal) Right: Lumber Increase=1.60		(B) 22=-21	2(B)	
Uniform Loads (plf)	o mini no mina (nog. i					
	694, 9-15=-20					
Horz: 1-15= Concentrated Loads	,					
Vert: 13=-2	32(B) 11=-212(B) 16=-1	98(B) 17=-187(B) 18=-232(B) 19=-23			2(B)	
25) Reversal: Dead + 0. Uniform Loads (plf)	o ivivers vvind (Pos. Ii	nternal) 1st Parallel: Lumber Increase	e=1.60, Plate Increase=1.6	U		
Vert: 1-8=-6	675, 9-15=-8					
Horz: 1-15= Concentrated Loads						
	()	07(B) 17=-198(B) 18=-244(B) 19=-24	4(B) 20=-244(B) 21=-223	(B) 22=-22	3(B)	
Continued on name 4						
Continued on page 4						



						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Roeser/1487 Wint	
2742340	GR1	Flat Girder	1	2		AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES
Builders FirstSource (Valley	Center), Valley Center, K			▲ 430 s Mar	Job Reference (op 22 2021 MiTek Ind	tional) DEVELOFMENT SERVICES
						P1qYEmnS7Qw7gyE5i5A4rhV?DjRIRWzP4eo
LOAD CASE(S) Standard	1					04/23/2021
26) Reversal: Dead + 0.6 I		2nd Parallel: Lumber Increase=1.60, Plate	ncrease=1.6	0		
Uniform Loads (plf) Vert: 1-8=-675	5 9-15=-8					
Horz: 1-15=-1	,					
Concentrated Loads (I		7=-198(B) 18=-244(B) 19=-244(B) 20=-244(2) 21- 222/	<u></u>		
		3rd Parallel: Lumber Increase=1.60, Plate I)(D)	
Uniform Loads (plf)	0.45-0					
Vert: 1-8=-686 Horz: 1-15=6,						
Concentrated Loads (I	,					
		7=-198(B) 18=-244(B) 19=-244(B) 20=-244(4th Parallel: Lumber Increase=1.60, Plate In			3(B)	
Uniform Loads (plf)		·····, ····, ····				
Vert: 1-8=-686 Horz: 1-15=-1	,					
Concentrated Loads (I	b)					
		7=-198(B) 18=-244(B) 19=-244(B) 20=-244(1st Parallel: Lumber Increase=1.60, Plate I			3(B)	
Uniform Loads (plf)	www.rks.wind (Neg. Internal)	TSt Falallel. Lumber increase=1.00, Flate in	1016456-1.0	0		
Vert: 1-8=-694						
Horz: 1-15=23 Concentrated Loads (I						
Vert: 13=-232	(B) 11=-212(B) 16=-198(B) 1	7=-187(B) 18=-232(B) 19=-232(B) 20=-232(2(B)	
30) Reversal: Dead + 0.6 I Uniform Loads (plf)	WWFRS Wind (Neg. Internal)	2nd Parallel: Lumber Increase=1.60, Plate	ncrease=1.6	50		
Vert: 1-8=-694						
Horz: 1-15=-7 Concentrated Loads (I	·					
	,	7=-187(B) 18=-232(B) 19=-232(B) 20=-232(3) 21=-212(B) 22=-212	2(B)	
31) Reversal: Dead + 0.75 Uniform Loads (plf)	Roof Live (bal.) + 0.75(0.6 N	IWFRS Wind (Neg. Int) Left): Lumber Increa	se=1.60, Pla	ate Increas	e=1.60	
Vert: 1-8=-738	3, 9-15=-20					
Horz: 1-15=19 Concentrated Loads (I						
	,	7=-389(B) 18=-424(B) 19=-424(B) 20=-424(3) 21=-408(B) 22=-408	B(B)	
32) Reversal: Dead + 0.75 Uniform Loads (plf)	Roof Live (bal.) + 0.75(0.6 N	IWFRS Wind (Neg. Int) Right): Lumber Incre	ase=1.60, F	late Increa	ase=1.60	
Vert: 1-8=-738	3, 9-15=-20					
Horz: 1-15=-7	,					
Concentrated Loads (I Vert: 13=-424	,	7=-389(B) 18=-424(B) 19=-424(B) 20=-424(3) 21=-408(B) 22=-408	B(B)	
33) Reversal: Dead + 0.75 Uniform Loads (plf)	Roof Live (bal.) + 0.75(0.6 N	IWFRS Wind (Neg. Int) 1st Parallel): Lumbe	Increase=1	.60, Plate	Increase=1.60	
Vert: 1-8=-738	3, 9-15=-20					
Horz: 1-15=17						
Concentrated Loads (I Vert: 13=-424		7=-389(B) 18=-424(B) 19=-424(B) 20=-424(3) 21=-408(B) 22=-408	B(B)	
34) Reversal: Dead + 0.75 Increase=1.60	Roof Live (bal.) + 0.75(0.6 N	IWFRS Wind (Neg. Int) 2nd Parallel): Lumbo	r Increase=	1.60, Plate)	
Uniform Loads (plf)						
Vert: 1-8=-738 Horz: 1-15=-5						
Concentrated Loads (I	·					
		7=-389(B) 18=-424(B) 19=-424(B) 20=-424(B) 20=-42(B) 20=-42(B) 20=-42(B) 20=-42(B) 20=-424(B) 20=-42(B) 20=-40	3) 21=-408(B) 22=-408	B(B)	
Uniform Loads (plf)	VIVERS WIND WIN. Left: Lum	ber Increase=1.60, Plate Increase=1.60				
Vert: 1-8=-712						
Horz: 1-15=16 Concentrated Loads (I						
Vert: 13=-201	(B) 11=-188(B) 16=-172(B) 1	7=-163(B) 18=-201(B) 19=-201(B) 20=-201(3) 21=-188(B) 22=-188	3(B)	
36) Reversal: Dead + 0.6 I Uniform Loads (plf)	vivvrko vvina iviin. Right: Lui	mber Increase=1.60, Plate Increase=1.60				
Vert: 1-8=-712						
Horz: 8-9=-16 Concentrated Loads (I						
	,	7=-163(B) 18=-201(B) 19=-201(B) 20=-201(3) 21=-188(B) 22=-188	B(B)	





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIT-74/3 rev. 5/19/2020 BE-ORE USE. Design valid for use only with MITER® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

16023 Swingley Ridge Rd Chesterfield, MO 63017

						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Roeser/1487 Winter	
2742340	GR2	Flat Girder	1	2	Job Reference (opt	AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES
Builders FirstSource (Valley	Center), Valley Center, K					stries, Inc.Lttdn'SpS19MW013V05SO4982 ke4GT4xrErybmNJRrvnCJYClg0wrWOzP4em
 Use Simpson Strong-T Fill all nail holes where LOAD CASE(S) Standard 	ie HGUS28-2 (36-10d Girde ie HUS26 (14-10d Girder, 4- ie LUS24 (4-10d Girder, 2-1 ick face of bottom chord. ie HHUS26-2 (14-10d Girder hanger is in contact with lun	size or the orientation of the purlin along the r, 6-10d Truss) or equivalent at 0-9-10 from 10d Truss) or equivalent at 2-8-12 from the 0d Truss, Single Ply Girder) or equivalent sp r, 4-10d Truss) or equivalent at 18-9-12 from ther.	e top and/or bo the left end to left end to con aced at 2-0-0	ottom chor connect tr nect truss oc max. s	d. russ(es) to back fa (es) to back face o tarting at 4-8-12 fr	04/23/2021 ce of bottom chord. of bottom chord. rom the left end to 16-8-12 to
	1	=-1620(B) 18=-677(B) 19=-678(B) 20=-678(=1.15, Plate Increase=1.15	B) 21=-678(B) 22=-672(B) 23=-672(B)	
	8) 11=-576(B) 9=-1580(B) 17	=-1493(B) 18=-582(B) 19=-583(B) 20=-583(B) 21=-583(B) 22=-576(B) 23=-576(B)	
Uniform Loads (plf) Vert: 1-8=-720, Concentrated Loads (lb)	9-16=-40	Increase=1.25, Plate Increase=1.25	B) 21=-438(B) 22=-425(B) 23=-425(B)	
4) Dead + 0.6 MWFRS Wir Uniform Loads (plf) Vert: 1-8=-675, Horz: 1-16=15, Concentrated Loads (lb)	nd (Pos. Internal) Left: Lumb 9-16=-8 8-9=19	er Increase=1.60, Plate Increase=1.60				
5) Dead + 0.6 MWFRS Wir Uniform Loads (plf) Vert: 1-8=-675, Horz: 1-16=-19, Concentrated Loads (lb)	nd (Pos. Internal) Right: Lum 9-16=-8 .8-9=-15	23(B) 18=102(B) 19=101(B) 20=101(B) 21= ber Increase=1.60, Plate Increase=1.60 23(B) 18=102(B) 19=101(B) 20=101(B) 21=				
6) Dead + 0.6 MWFRS Wir Uniform Loads (plf) Vert: 1-8=-694, Horz: 1-16=26, Concentrated Loads (lb)	nd (Neg. Internal) Left: Lumb 9-16=-20 8-9=9	23(B) 18-102(B) 19-101(B) 20-101(B) 21- er Increase=1.60, Plate Increase=1.60 14(B) 18=113(B) 19=113(B) 20=113(B) 21=				
7) Dead + 0.6 MWFRS Wir Uniform Loads (plf) Vert: 1-8=-694, Horz: 1-16=-9, 4 Concentrated Loads (lb)	nd (Neg. Internal) Right: Lum 9-16=-20 8-9=-26	14(B) 18=113(B) 19=113(B) 20=113(B) 21=				
8) Dead + 0.6 MWFRS Wir Uniform Loads (plf) Vert: 1-8=-675, Horz: 1-16=13, Concentrated Loads (lb)	nd (Pos. Internal) 1st Parallel 9-16=-8 8-9=18	: Lumber Increase=1.60, Plate Increase=1.6	50			
9) Dead + 0.6 MWFRS Wir Uniform Loads (plf) Vert: 1-8=-675, Horz: 1-16=-18, Concentrated Loads (lb)	nd (Pos. Internal) 2nd Paralle 9-16=-8 .8-9=-13	23(B) 18=102(B) 19=101(B) 20=101(B) 21= il: Lumber Increase=1.60, Plate Increase=1.	60			
10) Dead + 0.6 MWFRS W Uniform Loads (plf) Vert: 1-8=-686 Horz: 1-16=6, Concentrated Loads (ll	find (Pos. Internal) 3rd Parall 6, 9-16=-8 8-9=14 5)	23(B) 18=102(B) 19=101(B) 20=101(B) 21= el: Lumber Increase=1.60, Plate Increase=1	.60			
	find (Pos. Internal) 4th Parall 6, 9-16=-8 4, 8-9=-6	923(B) 18=102(B) 19=101(B) 20=101(B) 21 el: Lumber Increase=1.60, Plate Increase=1	. ,	14(B) 23=	121(B)	
Vert: 14=102(I	3) 11=137(B) 9=377(B) 17=- /ind (Neg. Internal) 1st Parall 4, 9-16=-20	923(B) 18=102(B) 19=101(B) 20=101(B) 21 el: Lumber Increase=1.60, Plate Increase=1		14(B) 23=	121(B)	



						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Roeser/1487 Wint	
2742340	GR2	Flat Girder	1	2		AS NOTED ON PLANS REVIEW
	Center), Valley Center, I	(9. 67147		2		tonal) DEVELOPMENT SERVICES stries, Inc.Lttd:: SpSI.9MM/40113/2019504.98.8
Builders FirstSource (Valley	Center), Valley Center, r					ke4GT4xrErybmNJRrvnCJYClg0wrWOzP4em
	4					04/23/2021
LOAD CASE(S) Standard Concentrated Loads (I						
Vert: 14=113	(B) 11=148(B) 9=384(B) 17=	-914(B) 18=113(B) 19=113(B) 20=113(B) 21		I26(B) 23	=133(B)	
 Dead + 0.6 MWFRS V Uniform Loads (plf) 	Vind (Neg. Internal) 2nd Para	Illel: Lumber Increase=1.60, Plate Increase=	=1.60			
Vert: 1-8=-69	4, 9-16=-20					
Horz: 1-16=-7	,					
Concentrated Loads (I Vert: 14=113)	,	-914(B) 18=113(B) 19=113(B) 20=113(B) 2 ⁻	1=113(B) 22=*	26(B) 23	=133(B)	
14) Dead: Lumber Increas	se=0.90, Plate Increase=0.90			(_)		
Uniform Loads (plf) Vert: 1-8=-72	0 0 16- 20					
Concentrated Loads (I						
		7=-1110(B) 18=-297(B) 19=-298(B) 20=-298			9(B) 23=-289(B)	
15) Dead + 0.75 Roof Live Uniform Loads (plf)	e (bal.) + 0.75(0.6 MWFRS W	/ind (Neg. Int) Left): Lumber Increase=1.60,	Plate Increas	e=1.60		
Vert: 1-8=-73	-,					
Horz: 1-16=19	,					
Concentrated Loads (I Vert: 14=49(E		4(B) 18=49(B) 19=49(B) 20=49(B) 21=49(B)	3) 22=60(B) 23	8=65(B)		
,	e (bal.) + 0.75(0.6 MWFRS W	/ind (Neg. Int) Right): Lumber Increase=1.60), Plate Increa	se=1.60		
Uniform Loads (plf) Vert: 1-8=-73	8 9-16=-20					
Horz: 1-16=-7	7, 8-9=-19					
Concentrated Loads (I		4(B) 18=49(B) 19=49(B) 20=49(B) 21=49(B	1) 22-60(P) 23	-65(P)		
	, , , ,	/ind (Neg. Int) 1st Parallel): Lumber Increase	, , ,	· · ·	1.60	
Uniform Loads (plf)						
Vert: 1-8=-73 Horz: 1-16=1						
Concentrated Loads (I	lb)					
		4(B) 18=49(B) 19=49(B) 20=49(B) 21=49(E /ind (Neg. Int) 2nd Parallel): Lumber Increas			=1.60	
Uniform Loads (plf)	(bal.) + 0.75(0.0 WWERS W	(Neg. Int) 2nd Faraner). Lumber increas	e-1.00, Flate	IIICIEase	-1.00	
Vert: 1-8=-73						
Horz: 1-16=-5 Concentrated Loads (I						
Vert: 14=49(E	3) 11=77(B) 9=187(B) 17=-91	4(B) 18=49(B) 19=49(B) 20=49(B) 21=49(B)	3) 22=60(B) 23	8=65(B)		
19) Dead + 0.6 MWFRS V Uniform Loads (plf)	Vind Min. Left: Lumber Increa	ase=1.60, Plate Increase=1.60				
Vert: 1-8=-71	2, 9-16=-8					
Horz: 1-16=10						
Concentrated Loads (I Vert: 14=61(E	,	23(B) 18=61(B) 19=61(B) 20=61(B) 21=61(E	3) 22=73(B) 23	8=80(B)		
20) Dead + 0.6 MWFRS V		ease=1.60, Plate Increase=1.60	,,			
Uniform Loads (plf) Vert: 1-8=-71	2 9-16=-8					
Horz: 8-9=-16						
Concentrated Loads (I		23(B) 18=61(B) 19=61(B) 20=61(B) 21=61(E	1) 22-73(D) 23	2-90/D)		
) Left: Lumber Increase=1.60, Plate Increase		5-00(Б)		
Uniform Loads (plf)	5 0 40 0					
Vert: 1-8=-67 Horz: 1-16=1						
Concentrated Loads (I	lb)					
Vert: 14=-258 23=-205(B)	8(B) 11=-228(B) 9=-755(B) 17	7=-1200(B) 18=-258(B) 19=-258(B) 20=-258	B(B) 21=-258(E	3) 22=-23	6(B)	
	MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increa	se=1.60			
Uniform Loads (plf) Vert: 1-8=-67	5 0 16- 9					
Horz: 1-16=-1						
Concentrated Loads (I						
Vert: 14=-258 23=-205(B)	3(B) 11=-228(B) 9=-755(B) 1	7=-1200(B) 18=-258(B) 19=-258(B) 20=-258	(B) 21=-258(E	3) 22=-230	o(B)	
23) Reversal: Dead + 0.6	MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increas	e=1.60			
Uniform Loads (plf) Vert: 1-8=-69	4 9-16=-20					
Horz: 1-16=20						
Concentrated Loads (I		7-1101(B) 18-246(D) 10- 246(D) 20- 246	(B) 21- 246/F	2) 22- 22	1(B)	
23=-193(B)	יושי דו בוו (ם) א=-149(ם) 1	7=-1191(B) 18=-246(B) 19=-246(B) 20=-246	ינט) ב ו=-240(E	o, 2222	T(D)	
24) Reversal: Dead + 0.6	MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increa	ase=1.60			
Uniform Loads (plf) Vert: 1-8=-69	4, 9-16=-20					
Horz: 1-16=-9						



							RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Roeser/1487 Wint	erset	CONSTRUCTION
2742340	GR2	Flat Girder	1	n			AS NOTED ON PLANS REVIEW
Builders FirstSource (Valley	/ y Center), Valley Center, ł		8.4	2 130 s Mar		tional) ustries	DEVELOPMENT SERVICES
	, ,, , ,						T4xrErybmNJRrvnCJYClg0wrWOzP4em
LOAD CASE(S) Standar	d						04/23/2021
Concentrated Loads (Vert: 14=-246		/=-1191(B) 18=-246(B) 19=-246(B) 20=	-246(B) 21=-246(B) 22=-224	4(B) 23=-193(B)		
25) Reversal: Dead + 0.6		1st Parallel: Lumber Increase=1.60, Pl		,	(_)		
Uniform Loads (plf) Vert: 1-8=-67	5, 9-16=-8						
Horz: 1-16=1 Concentrated Loads (
		/=-1200(B) 18=-258(B) 19=-258(B) 20=	-258(B) 21=-258(B) 22=-236	6(B) 23=-205(B)		
26) Reversal: Dead + 0.6 Uniform Loads (plf)	MWFRS Wind (Pos. Internal)	2nd Parallel: Lumber Increase=1.60, F	late Increase=1.60				
Vert: 1-8=-67							
Horz: 1-16=-1 Concentrated Loads (
Vert: 14=-258	B(B) 11=-228(B) 9=-755(B) 17	/=-1200(B) 18=-258(B) 19=-258(B) 20=) 22=-236	6(B) 23=-205(B)		
Uniform Loads (plf)	WWFR5 Wind (Pos. Internal)	3rd Parallel: Lumber Increase=1.60, P	ate increase=1.60				
Vert: 1-8=-68 Horz: 1-16=6							
Concentrated Loads (lb)						
		′=-1200(B) 18=-258(B) 19=-258(B) 20= 4th Parallel: Lumber Increase=1.60, P) 22=-236	6(B) 23=-205(B)		
Uniform Loads (plf)	,						
Vert: 1-8=-68 Horz: 1-16=-1							
Concentrated Loads (lb)						
		'=-1200(B) 18=-258(B) 19=-258(B) 20=) 1st Parallel: Lumber Increase=1.60, P) 22=-236	o(B) 23=-205(B)		
Uniform Loads (plf) Vert: 1-8=-69	4 0 16- 20						
Horz: 1-16=2							
Concentrated Loads (/=-1191(B) 18=-246(B) 19=-246(B) 20=	-246(B) 21=-246(B) 22=-224	1(B) 23=-193(B)		
30) Reversal: Dead + 0.6) 2nd Parallel: Lumber Increase=1.60, F			.(2) 20 .00(2)		
Uniform Loads (plf) Vert: 1-8=-69	4, 9-16=-20						
Horz: 1-16=-7							
Concentrated Loads (Vert: 14=-246		/=-1191(B) 18=-246(B) 19=-246(B) 20=	-246(B) 21=-246(B) 22=-224	4(B) 23=-193(B)		
 Reversal: Dead + 0.75 Uniform Loads (plf) 	5 Roof Live (bal.) + 0.75(0.6 M	/WFRS Wind (Neg. Int) Left): Lumber I	ncrease=1.60, Plat	e Increas	se=1.60		
Vert: 1-8=-73							
Horz: 1-16=1 Concentrated Loads (
Vert: 14=-473	B(B) 11=-450(B) 9=-1255(B) 1	7=-1431(B) 18=-473(B) 19=-473(B) 20					
Uniform Loads (plf)	5 ROOI LIVE (Dal.) + 0.75(0.6 h	/WFRS Wind (Neg. Int) Right): Lumber	increase=1.60, Pla	ate increa	ase=1.60		
Vert: 1-8=-73 Horz: 1-16=-7							
Concentrated Loads (lb)						
Vert: 14=-473 23=-433(B)	3(B) 11=-450(B) 9=-1255(B) 1	7=-1431(B) 18=-473(B) 19=-473(B) 20	=-473(B) 21=-473(I	3) 22=-45	56(B)		
33) Reversal: Dead + 0.75	5 Roof Live (bal.) + 0.75(0.6 M	/WFRS Wind (Neg. Int) 1st Parallel): Lu	umber Increase=1.0	60, Plate			
Increase=1.60 Uniform Loads (plf)							
Vert: 1-8=-73 Horz: 1-16=1							
Concentrated Loads (lb)						
Vert: 14=-473 23=-433(B)	3(B) 11=-450(B) 9=-1255(B) 1	7=-1431(B) 18=-473(B) 19=-473(B) 20	=-473(B) 21=-473(I	3) 22=-45	56(B)		
34) Reversal: Dead + 0.75	5 Roof Live (bal.) + 0.75(0.6 M	/WFRS Wind (Neg. Int) 2nd Parallel): L	umber Increase=1	60, Plate	9		
Increase=1.60 Uniform Loads (plf)							
Vert: 1-8=-73 Horz: 1-16=-5							
Concentrated Loads (lb)						
Vert: 14=-473 23=-433(B)	3(B) 11=-450(B) 9=-1255(B) 1	7=-1431(B) 18=-473(B) 19=-473(B) 20	=-473(B) 21=-473(I	3) 22=-45	56(B)		
35) Reversal: Dead + 0.6	MWFRS Wind Min. Left: Lum	ber Increase=1.60, Plate Increase=1.60	0				
Uniform Loads (plf) Vert: 1-8=-71	2, 9-16=-8						
Horz: 1-16=1	6						
		/=-1149(B) 18=-217(B) 19=-217(B) 20=	-217(B) 21=-217(B) 22=-195	5(B)		
23=-164(B) 36) Reversal: Dead + 0.6	MWFRS Wind Min Right	mber Increase=1.60, Plate Increase=1.	60				



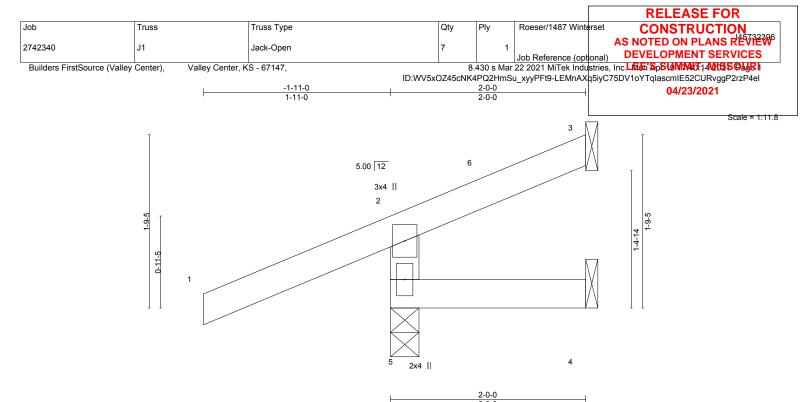
						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Roeser/1487 Winte	rset CONSTRUCTION AS NOTED ON PLANS REVIEW
2742340	GR2	Flat Girder	1			AS NOTED ON PLANS REVIEW
2742340	012		1	2	Job Reference (opti	
Builders FirstSource	(Valley Center), Valle	y Center, KS - 67147,		8.430 s Mar	22 2021 MiTek Indu	stries, Inc.Litter'SpSLIMMADT13VLUSSO4486
			ID:WV5xOZ45cNK	4PQ2HmSu	I_xyyPFt9-t1oPzBpT	ce4GT4xrErybmNJRrvnCJYClg0wrWOzP4em
						04/23/2021
LOAD CASE(S) S Uniform Loads						
	9-712 0 16-9				L	

Vert: 1-8=-712, 9-16=-8 Horz: 8-9=-16

Concentrated Loads (lb)

Vert: 14=-217(B) 11=-187(B) 9=-639(B) 17=-1149(B) 18=-217(B) 19=-217(B) 20=-217(B) 21=-217(B) 22=-195(B) 23=-164(B)





				2-0-0									
	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	0.00	4-5	>999	240	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	0.00	4-5	>999	180			
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a			
BCDL	10.0	Code IRC2018/TPI2	014	Matri	x-MR						Weight: 8 lb	FT = 20%	

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

BRACING-TOP CHORD

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

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-266/205

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) -1-11-0 to 1-1-0, Interior(1) 1-1-0 to 1-11-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) 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.

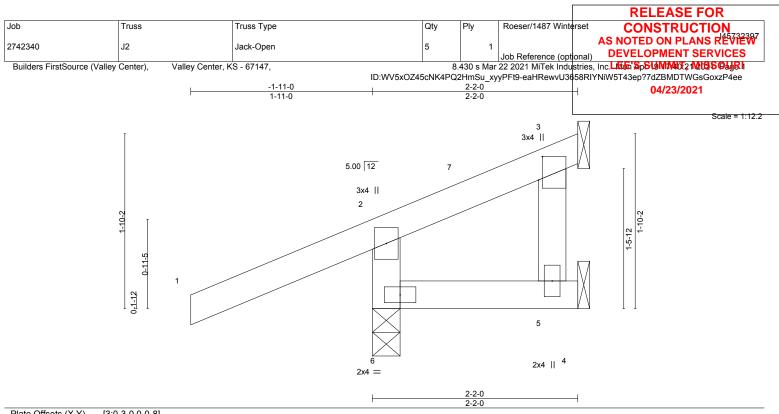
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 76 lb uplift at joint 5, 16 lb uplift at joint 3 and 5 lb uplift at joint 4.

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.





REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=48(LC 9) Max Uplift 5=-76(LC 8), 3=-16(LC 12), 4=-5(LC 1) Max Grav 5=308(LC 1), 3=7(LC 22), 4=28(LC 3)



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 0.30	Vert(LL) (0.00 5-6	>999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.09	Vert(CT) (0.00 5-6	>999 180	
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) -(0.01 3	n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP				Weight: 10 lb FT = 20%

LUMBER-		BRACING-	
TOP CHORD 2x4 SP	F No.2	TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins,
BOT CHORD 2x4 SP	F No.2		except end verticals.
WEBS 2x4 SP	F 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=44(LC 9) Max Uplift 5=-5(LC 25), 3=-39(LC 25), 6=-78(LC 8) Max Grav 5=37(LC 3), 3=3(LC 8), 6=308(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-6=-266/207

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) -1-11-0 to 1-1-0, Interior(1) 1-1-0 to 1-10-12 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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.

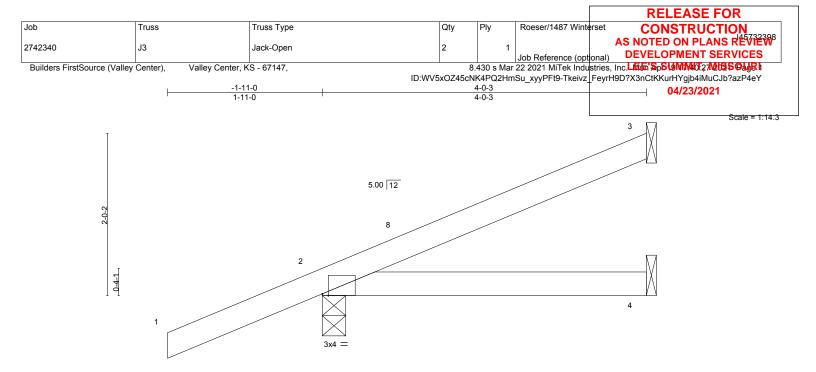
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 5, 39 lb uplift at joint 3 and 78 lb uplift at joint 6.

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.







			<u>4-0-3</u> 4-0-3	———————————————————————————————————————
Plate Offsets (X,Y)	- [2:0-0-14,Edge]			
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 0.24	Vert(LL) -0.01 4-7 >999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.11	Vert(CT) -0.02 4-7 >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/TPI2014	Matrix-AS		Weight: 12 lb FT = 20%

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

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied. Rigid ceiling directly applied.

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

Max Horz 2=85(LC 12)

Max Uplift 3=-42(LC 12), 2=-69(LC 8) Max Grav 3=104(LC 1), 2=345(LC 1), 4=67(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) -1-11-0 to 1-1-0, Interior(1) 1-1-0 to 3-11-7 zone; cantilever left and right
- exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

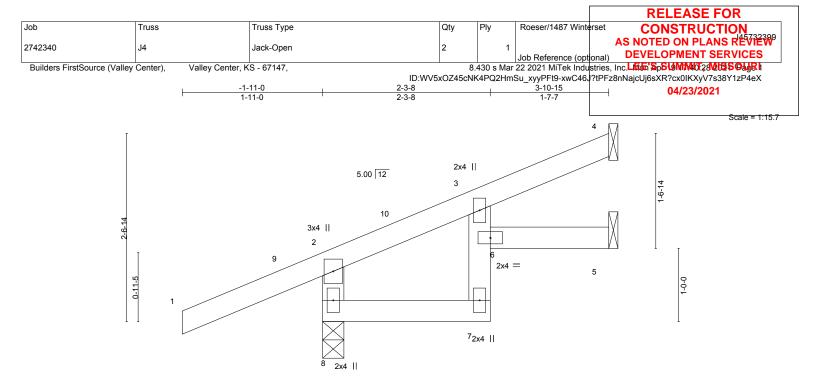
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 3 and 69 lb uplift at ioint 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.







			2-3-8 2-3-8		3-10-15 1-7-7	
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 6	>999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.09	Vert(CT) -	0.01 7	>999 180	
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.01 5	n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MR				Weight: 14 lb FT = 20%

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

BRACING-TOP CHORD

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

REACTIONS. (size) 8=0-3-8, 4=Mechanical, 5=Mechanical Max Horz 8=75(LC 12) Max Uplift 8=-64(LC 8), 4=-36(LC 12), 5=-7(LC 12) Max Grav 8=351(LC 1), 4=88(LC 1), 5=54(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-8=-313/203

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) -1-11-0 to 1-1-0, Interior(1) 1-1-0 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 64 lb uplift at joint 8, 36 lb uplift at joint 4 and 7 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.





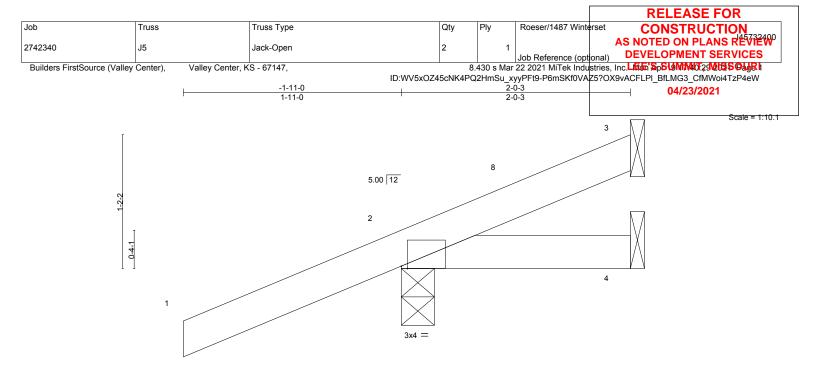


Plate Offsets (X,Y)	Plate Offsets (X,Y) [2:0-0-10,Edge]											
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC 0.25 BC 0.04 WB 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (l 0.00 0.00 0.00	loc) l/defl 7 >999 7 >999 2 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 197/144			

BRACING-

LUMBER-

BCDL

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

10.0

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 2-0-3 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

Weight: 7 lb

REACTIONS. 3=Mechanical, 2=0-3-8, 4=Mechanical (size) Max Horz 2=55(LC 12)

Max Uplift 3=-10(LC 12), 2=-83(LC 8), 4=-3(LC 1)

Max Grav 3=25(LC 1), 2=288(LC 1), 4=25(LC 3)

Code IRC2018/TPI2014

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) -1-11-0 to 1-1-0, Interior(1) 1-1-0 to 1-11-7 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-MP

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

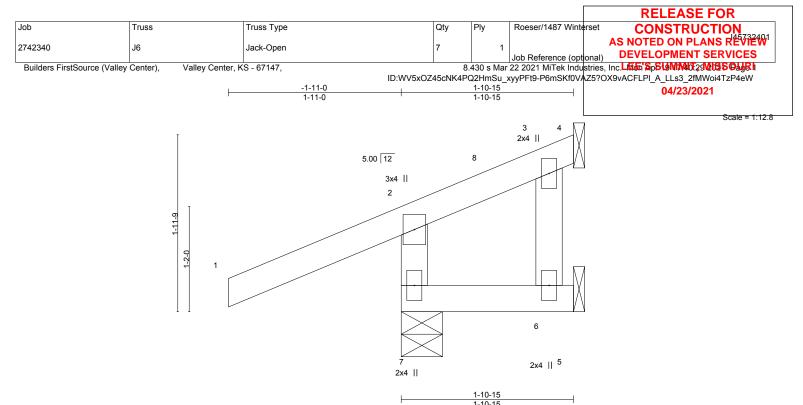
3) Refer to girder(s) for truss to truss connections.

- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 10 lb uplift at joint 3, 83 lb uplift at joint 2 and 3 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.



FT = 20%





			1-10-15									
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	0.30	Vert(LL)	0.00	6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	0.00	6	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.01	Horz(CT)	-0.01	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	912014	Matri	k-MP						Weight: 9 lb	FT = 20%

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

BRACING-TOP CHORD

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

REACTIONS. 7=0-5-8, 4=Mechanical, 5=Mechanical (size) Max Horz 7=50(LC 11) Max Uplift 7=-73(LC 8), 4=-15(LC 12), 5=-40(LC 1) Max Grav 7=308(LC 1), 4=34(LC 1), 5=21(LC 8)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-7=-277/212

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) -1-11-0 to 1-1-0, Interior(1) 1-1-0 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

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

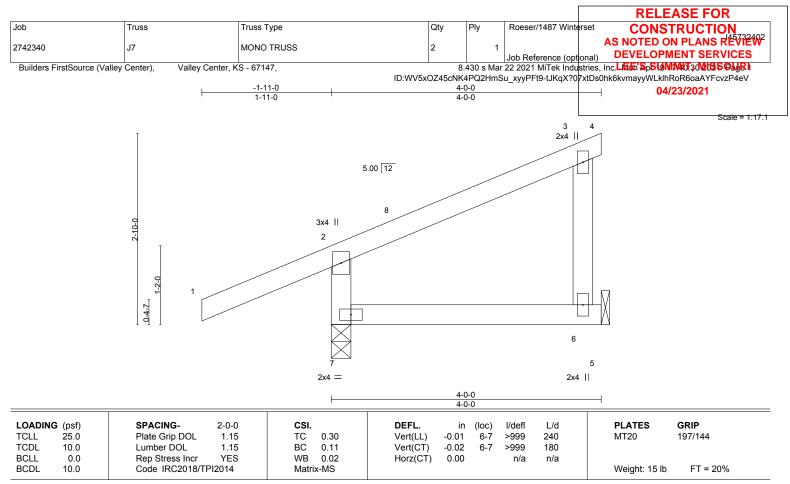
3) Refer to girder(s) for truss to truss connections.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint 7, 15 lb uplift at joint 4 and 40 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.







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

BRACING-TOP CHORD

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

REACTIONS. (size) 6=Mechanical, 7=0-3-8 Max Horz 7=74(LC 12) Max Uplift 6=-51(LC 12), 7=-58(LC 8) Max Grav 6=131(LC 1), 7=347(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-7=-306/207

NOTES-

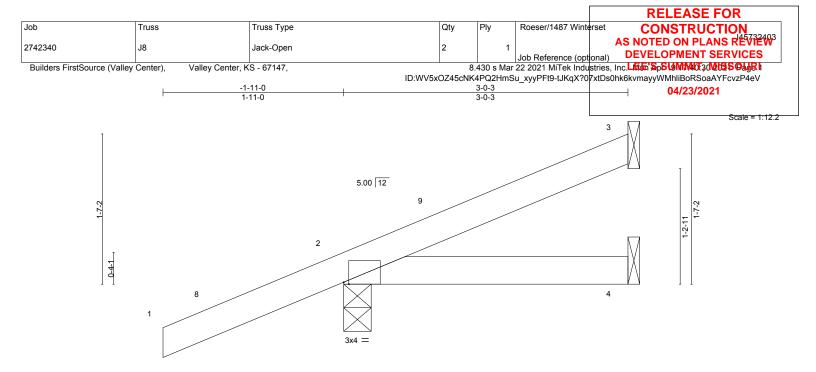
 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-11-0 to 1-1-0, Interior(1) 1-1-0 to 4-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for 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.
- Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 51 lb uplift at joint 6 and 58 lb uplift at joint 7.
- 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.







					<u>3-0-3</u> 3-0-3	I
Plate Offsets (X,Y)	[2:0-0-10,Edge]					
	CDACING	2.0.0	001	DEEL		

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	0.23	Vert(LL)	-0.00	4-7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.01	4-7	>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/TPI	12014	Matri	x-MP						Weight: 10 lb	FT = 20%

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

BRACING-TOP CHORD BOT CHORD

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

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

Max Horz 2=70(LC 12)

Max Uplift 3=-27(LC 12), 2=-73(LC 8) Max Grav 3=67(LC 1), 2=311(LC 1), 4=47(LC 3)

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

NOTES-

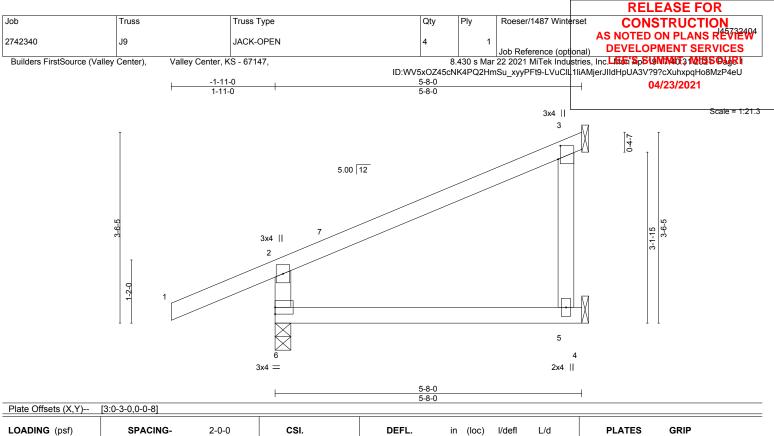
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed;
- MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-11-0 to 1-1-0, Interior(1) 1-1-0 to 2-11-7 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 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 27 lb uplift at joint 3 and 73 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.







LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. ir	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.33	Vert(LL) 0.04	5-6	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.24	Vert(CT) -0.07	5-6	>882	180		
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.04	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS					Weight: 20 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, except end verticals. Rigid ceiling directly applied.

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

Max Horz 6=95(LC 12) Max Uplift 6=-58(LC 12), 3=-74(LC 12)

Max Grav 6=408(LC 1), 5=108(LC 3), 3=153(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-6=-357/223

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) -1-11-0 to 1-1-0, Interior(1) 1-1-0 to 5-4-8 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) Refer to girder(s) for truss to truss connections.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 6 and 74 lb uplift at joint 3.

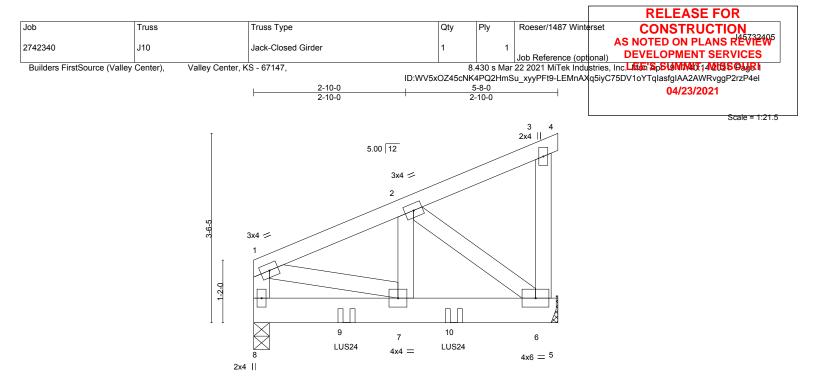
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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







			2-10-0			
CING- 2-0-0 Grip DOL 1.15	CSI. TC 0.11	Vert(LL) -0.0	1 7-8	l/defl L/d >999 240	PLATES MT20	GRIP 197/144
Stress Incr NO	WB 0.19			>999 180 n/a n/a	Waisht 20 lb	FT = 20%
5	Grip DOL 1.15 er DOL 1.15	Grip DOL 1.15 TC 0.11 er DOL 1.15 BC 0.33 tress Incr NO WB 0.19	Grip DOL 1.15 TC 0.11 Vert(LL) -0.0 er DOL 1.15 BC 0.33 Vert(CT) -0.0 tress Incr NO WB 0.19 Horz(CT) 0.0	Grip DOL 1.15 TC 0.11 Vert(LL) -0.01 7-8 er DOL 1.15 BC 0.33 Vert(CT) -0.02 7-8 tress Incr NO WB 0.19 Horz(CT) 0.00 6	Grip DOL 1.15 TC 0.11 Vert(LL) -0.01 7-8 >999 240 er DOL 1.15 BC 0.33 Vert(CT) -0.02 7-8 >999 180 tress Incr NO WB 0.19 Horz(CT) 0.00 6 n/a n/a	Grip DOL 1.15 TC 0.11 Vert(LL) -0.01 7-8 >999 240 MT20 er DOL 1.15 BC 0.33 Vert(CT) -0.02 7-8 >999 180 tress Incr NO WB 0.19 Horz(CT) 0.00 6 n/a n/a

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

EBS 2x4 SPF No.2

BRACING-

 TOP CHORD
 Structural wood sheathing directly applied or 5-8-0 oc purlins, except end verticals.

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

REACTIONS. (size) 8=0-3-8, 6=Mechanical Max Horz 8=117(LC 7) Max Uplift 8=-109(LC 8), 6=-140(LC 8) Max Grav 8=797(LC 1), 6=790(LC 1)

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

TOP CHORD 1-8=-617/94, 1-2=-824/114

BOT CHORD 6-7=-139/739

WEBS 1-7=-92/775, 2-7=-85/657, 2-6=-931/175

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.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 109 lb uplift at joint 8 and 140 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) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 1-8-12 from the left end to 3-8-12 to connect truss(es) to front face of bottom chord.

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

8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

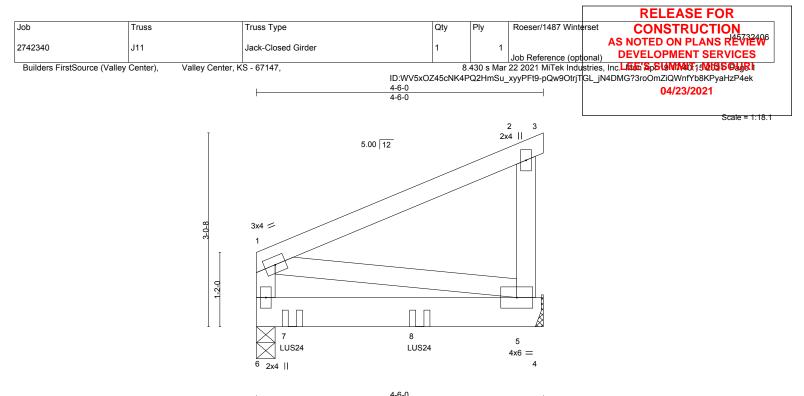
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-3=-70, 3-4=-20, 5-8=-20

Concentrated Loads (lb) Vert: 9=-552(F) 10=-552(F)







					4-6-0						
LOADING	· · ·	SPACING- 2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC	0.36	Vert(LL)	-0.03	5-6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC	0.71	Vert(CT)	-0.06	5-6	>782	180		
BCLL	0.0	Rep Stress Incr NC	WB	0.01	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-	MP						Weight: 21 lb	FT = 20%

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

2x4 SPF No.2

BRACING-TOP CHORD

Structural wood sheathing directly applied or 4-6-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. 6=0-3-8, 5=Mechanical (size) Max Horz 6=98(LC 5) Max Uplift 6=-123(LC 8), 5=-104(LC 8)

Max Grav 6=909(LC 1), 5=579(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 123 lb uplift at joint 6 and 104 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.

6) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 0-6-12 from the left end to 2-6-12 to connect truss(es) to back face of bottom chord.

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

8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

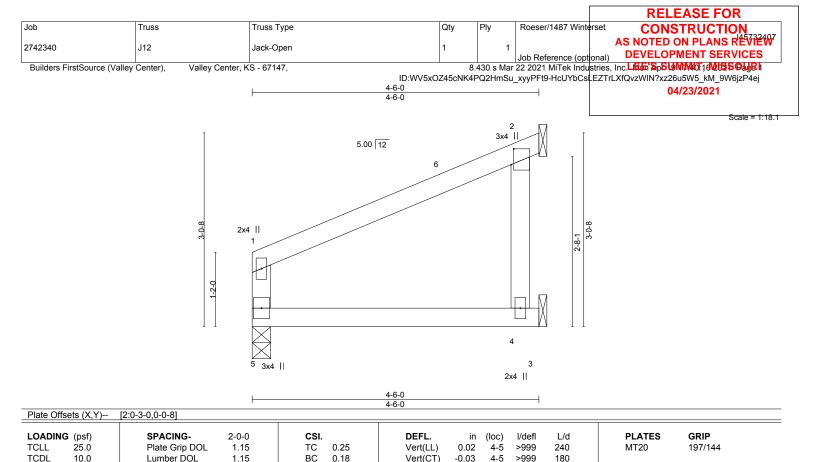
Uniform Loads (plf) Vert: 1-2=-70, 2-3=-20, 4-6=-20

Concentrated Loads (lb) Vert: 7=-558(B) 8=-552(B)



April 20,2021





Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.03

2

n/a

Rigid ceiling directly applied.

n/a

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

BCLL

BCDL

WEBS

LUMBER-

BOT CHORD

REACTIONS.

0.0

10.0

TOP CHORD 2x4 SPF No.2

2x4 SPF No.2

2x4 SPF No.2

Max Horz 5=59(LC 9)

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

Max Uplift 5=-7(LC 12), 2=-62(LC 12)

Rep Stress Incr

Code IRC2018/TPI2014

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

Max Grav 5=183(LC 1), 4=89(LC 3), 2=133(LC 1)

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

WB

Matrix-AS

0.00

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

YES

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 5 and 62 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) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

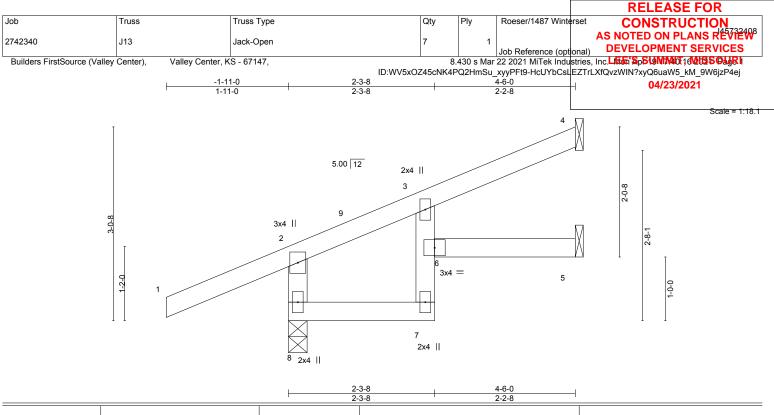


FT = 20%

Weight: 14 lb

Structural wood sheathing directly applied, except end verticals.





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) 0.02	6	>999	240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.15	Vert(CT) -0.03	6	>999	180	
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.01	5	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 WEBS 2x4 SPF No.2

2x4 SPF No.2

BRACING-TOP CHORD BOT CHORD

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

REACTIONS. 8=0-3-8, 4=Mechanical, 5=Mechanical (size) Max Horz 8=81(LC 12) Max Uplift 8=-58(LC 8), 4=-46(LC 12), 5=-9(LC 12) Max Grav 8=372(LC 1), 4=107(LC 1), 5=67(LC 3)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-8=-327/205

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) -1-11-0 to 1-1-0, Interior(1) 1-1-0 to 4-5-4 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.

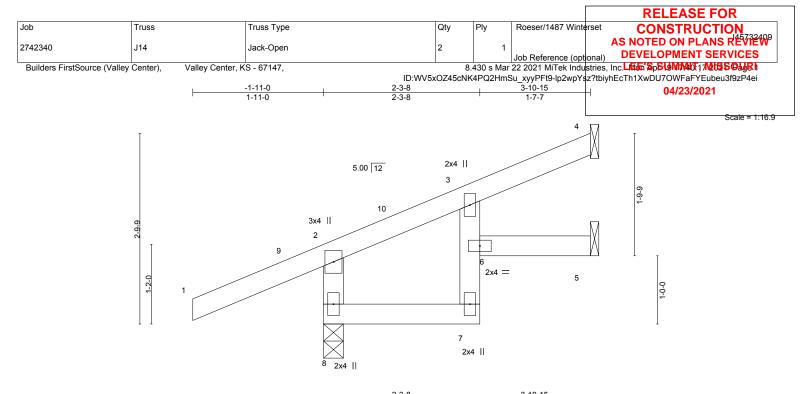
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 8, 46 lb uplift at joint 4 and 9 lb uplift at joint 5.

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.

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.







					2-3-8 2-3-8		+	3-10- 1-7-	-		
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	6	>999	240	MT20	197/144
CDL 10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.01	7	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI	2014	Matrix	K-MR						Weight: 14 lb	FT = 20%

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

BRACING-TOP CHORD

Structural wood sheathing directly applied or 3-10-15 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. 8=0-3-8, 4=Mechanical, 5=Mechanical (size) Max Horz 8=72(LC 12) Max Uplift 8=-60(LC 8), 4=-37(LC 12), 5=-10(LC 12) Max Grav 8=351(LC 1), 4=89(LC 1), 5=54(LC 3)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-8=-313/203

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) -1-11-0 to 1-1-0, Interior(1) 1-1-0 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.

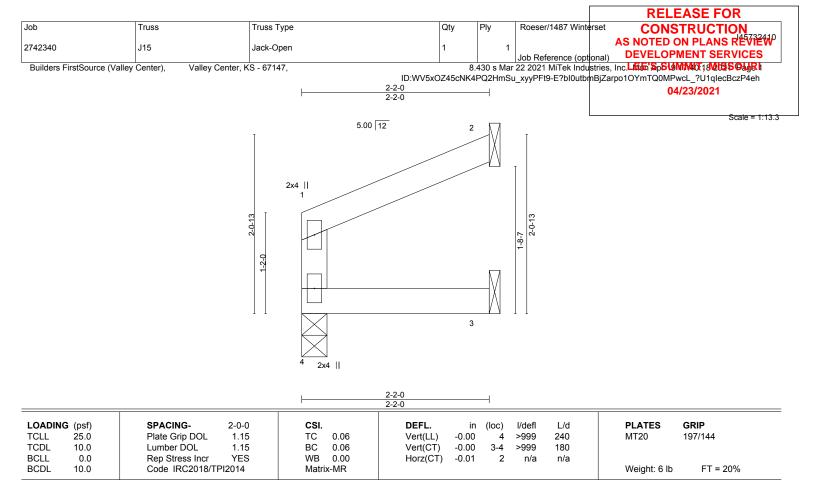
3) Refer to girder(s) for truss to truss connections.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 60 lb uplift at joint 8, 37 lb uplift at joint 4 and 10 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.







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

BRACING-TOP CHORD

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

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

Max Horz 4=38(LC 9)

Max Uplift 2=-33(LC 12), 3=-1(LC 9) Max Grav 4=88(LC 1), 2=65(LC 1), 3=38(LC 3)

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) 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.

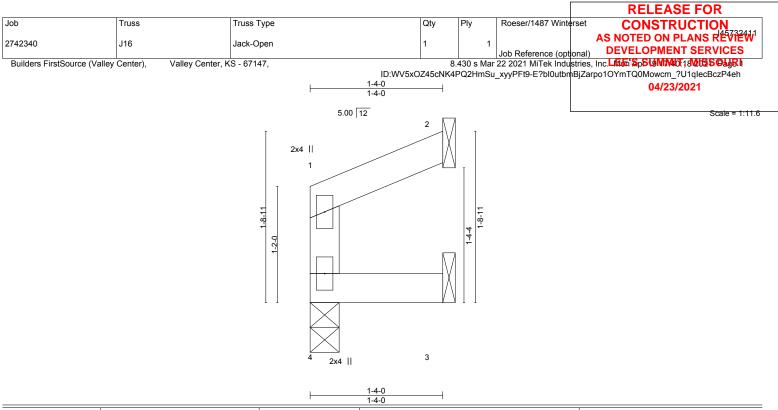
3) Refer to girder(s) for truss to truss connections.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 2 and 1 lb uplift at joint 3.

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







				1-4-0						
LOADIN	G (psf)	SPACING- 2-0-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.1	TC 0.0	4 Vert(LL)	-0.00	4	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL 1.1	BC 0.0	4 Vert(CT)	-0.00	4	>999	180		
BCLL	0.0	Rep Stress Incr YES	WB 0.0	0 Horz(CT)	-0.00	2	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-MR	2					Weight: 4 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 1-4-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-3-8, 2=Mechanical, 3=Mechanical Max Horz 4=30(LC 9)

Max Uplift 2=-22(LC 12), 3=-5(LC 9)

Max Grav 4=53(LC 1), 2=39(LC 1), 3=23(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 exposed ; end vertical le
- 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.

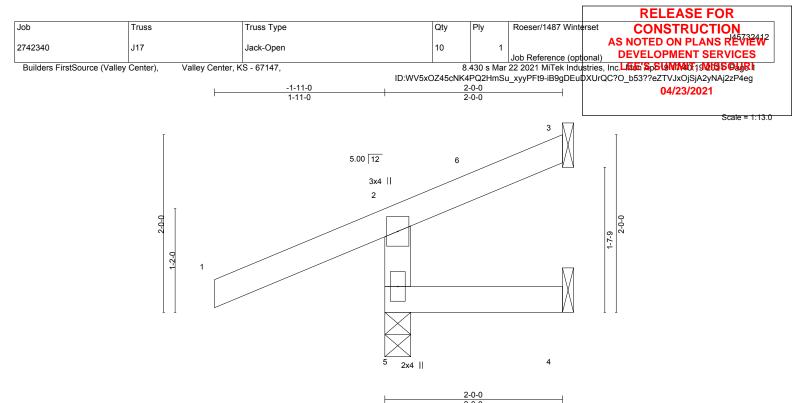
3) Refer to girder(s) for truss to truss connections.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 2 and 5 lb uplift at joint 3.

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







	2-0-0	
SPACING- 2-0-0	CSI. DEFL. in (loc) l/defl L/d PLATES GRI	P
Plate Grip DOL 1.15	TC 0.30 Vert(LL) 0.00 4-5 >999 240 MT20 197/	144
Lumber DOL 1.15	BC 0.07 Vert(CT) 0.00 4-5 >999 180	
Rep Stress Incr YES	WB 0.00 Horz(CT) -0.01 3 n/a n/a	
Code IRC2018/TPI2014	Matrix-MR Weight: 8 lb	FT = 20%
	Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYES	Plate Grip DOL 1.15 TC 0.30 Vert(LL) 0.00 4-5 >999 240 MT20 197/ Lumber DOL 1.15 BC 0.07 Vert(CT) 0.00 4-5 >999 180 Rep Stress Incr YES WB 0.00 Horz(CT) -0.01 3 n/a n/a

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

BRACING-TOP CHORD BOT CHORD

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

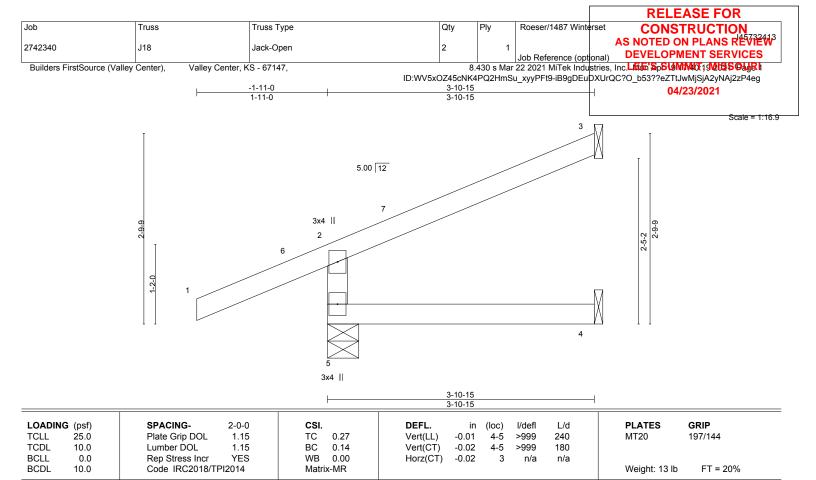
- REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=53(LC 9) Max Uplift 5=-71(LC 8), 3=-18(LC 12), 4=-3(LC 1) Max Grav 5=308(LC 1), 3=5(LC 22), 4=29(LC 3)
- FORCES. (lb) Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-269/202

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) -1-11-0 to 1-1-0, Interior(1) 1-1-0 to 1-11-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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 71 lb uplift at joint 5, 18 lb uplift at joint 3 and 3 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.







LUMBER-

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

BRACING-TOP CHORD

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

REACTIONS. (size) 5=0-5-8, 3=Mechanical, 4=Mechanical Max Horz 5=72(LC 12) Max Uplift 5=-60(LC 8), 3=-51(LC 12)

Max Grav 5=351(LC 1), 3=96(LC 1), 4=67(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-308/209

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) -1-11-0 to 1-1-0, Interior(1) 1-1-0 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.

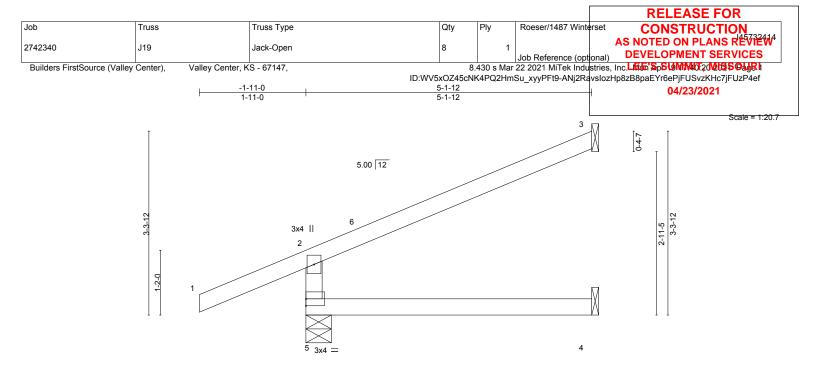
3) Refer to girder(s) for truss to truss connections.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 60 lb uplift at joint 5 and 51 lb uplift at joint 3.

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







			5-1-12 5-1-12	
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) -0.03 4-5 >999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.21	Vert(CT) -0.06 4-5 >999 180	
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.04 3 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 16 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, except end verticals. Rigid ceiling directly applied.

REACTIONS. (size) 5=0-5-8, 3=Mechanical, 4=Mechanical Max Horz 5=91(LC 12) Max Uplift 5=-58(LC 8), 3=-70(LC 12)

Max Grav 5=397(LC 1), 3=143(LC 1), 4=90(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-347/222

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) -1-11-0 to 1-1-0, Interior(1) 1-1-0 to 5-1-0 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.

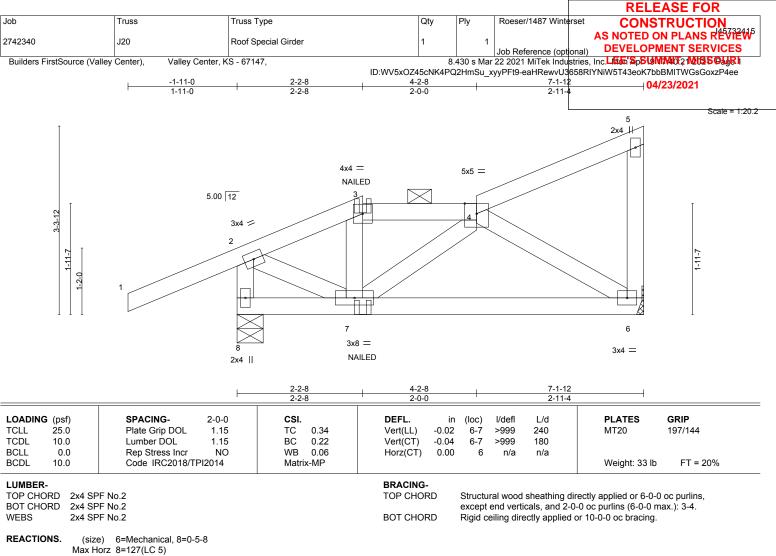
Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 5 and 70 lb uplift at joint 3.

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

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.







Max Uplift 6=-61(LC 8), 8=-91(LC 8)

Max Grav 6=283(LC 1), 8=464(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-271/32, 2-8=-466/89

TOP CHORD

WEBS 4-6=-275/85

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 arip DOL=1.60

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 61 lb uplift at joint 6 and 91 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

8) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.

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

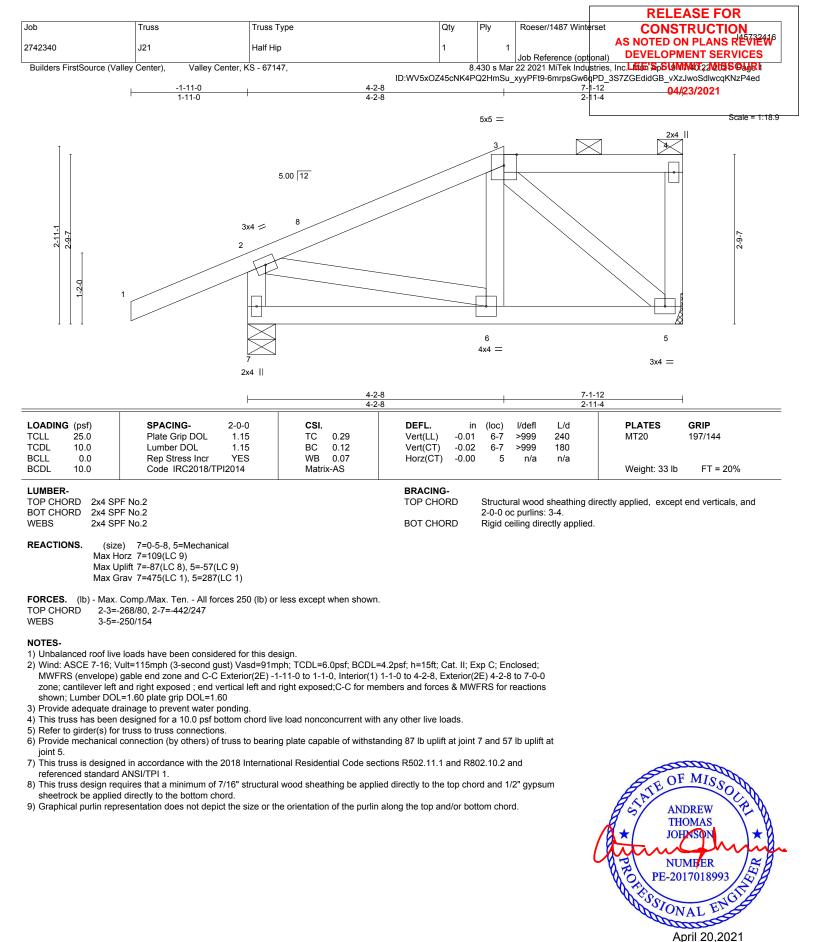
Uniform Loads (plf)

Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-5=-70, 6-8=-20 Concentrated Loads (lb)

Vert: 7=14(B)

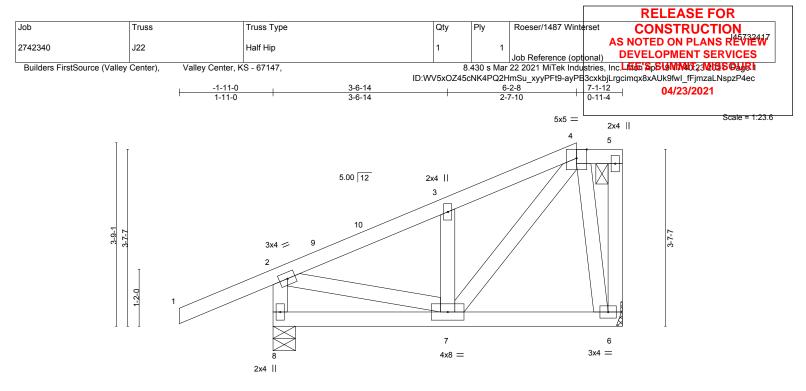
OF MISSOL ATE ANDREW THOMAS JOHNSON PROFESSIONAL NUMBER PE-2017018993 E April 20,2021

> MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



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		3-6-14 3-6-14	7-1-12 3-6-14	
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)	-0.01 7-8 >999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.10 Vert(CT)	-0.01 7-8 >999 180	
BCLL 0.0	Rep Stress Incr YES	WB 0.06 Horz(CT)	-0.00 6 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 38 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, 8=0-5-8 (size) Max Horz 8=142(LC 9) Max Uplift 6=-53(LC 9), 8=-86(LC 12) Max Grav 6=287(LC 1), 8=475(LC 1)

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

2-3=-296/69, 3-4=-265/103, 2-8=-446/234 TOP CHORD

BOT CHORD 7-8=-253/172

WEBS 4-7=-178/261

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) -1-11-0 to 1-1-0, Interior(1) 1-1-0 to 6-2-8, Exterior(2E) 6-2-8 to 7-0-0 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 53 lb uplift at joint 6 and 86 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.

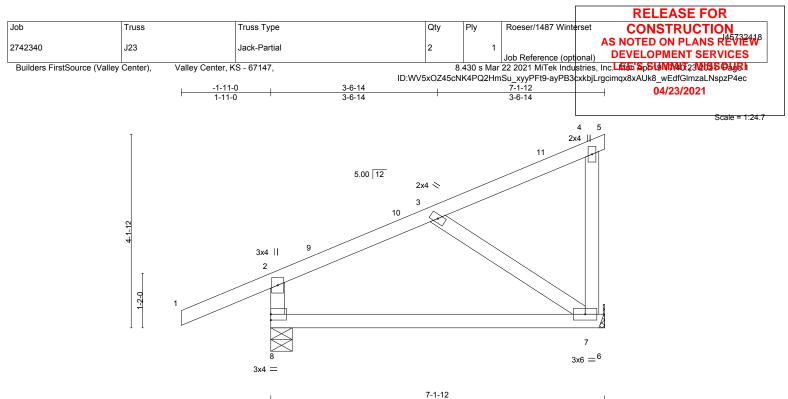
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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



Structural wood sheathing directly applied, except end verticals, and





			7-1-12						
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 0.33	Vert(LL) -0.08	7-8	>961	240	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.38	Vert(CT) -0.16	7-8	>507	180		
BCLL	0.0	Rep Stress Incr YES	WB 0.06	Horz(CT) 0.00	7	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS					Weight: 29 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SPF No.2

REACTIONS. 8=0-5-8, 7=Mechanical (size) Max Horz 8=116(LC 12) Max Uplift 8=-64(LC 12), 7=-75(LC 12) Max Grav 8=469(LC 1), 7=292(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-8=-386/214, 2-3=-253/54

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-11-0 to 1-1-0, Interior(1) 1-1-0 to 7-1-12 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 64 lb uplift at joint 8 and 75 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.

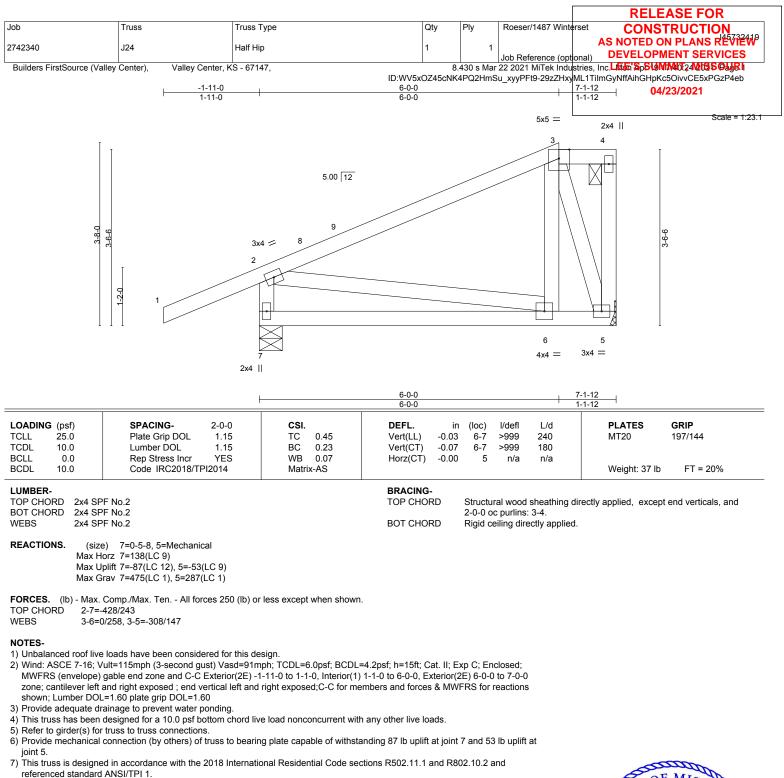
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

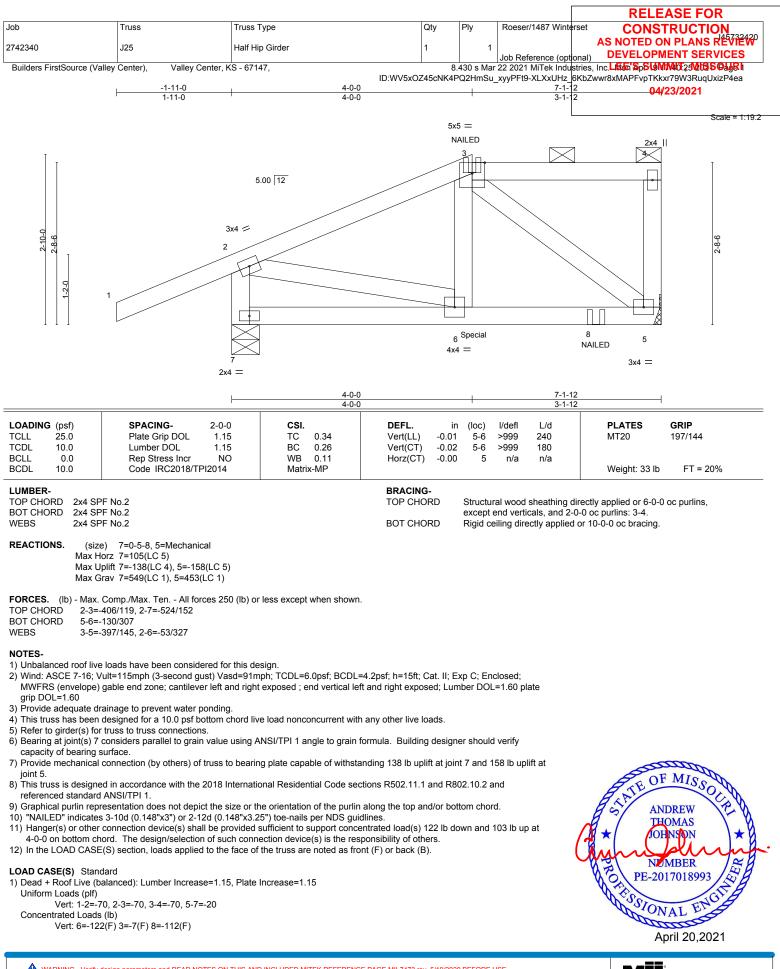




- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



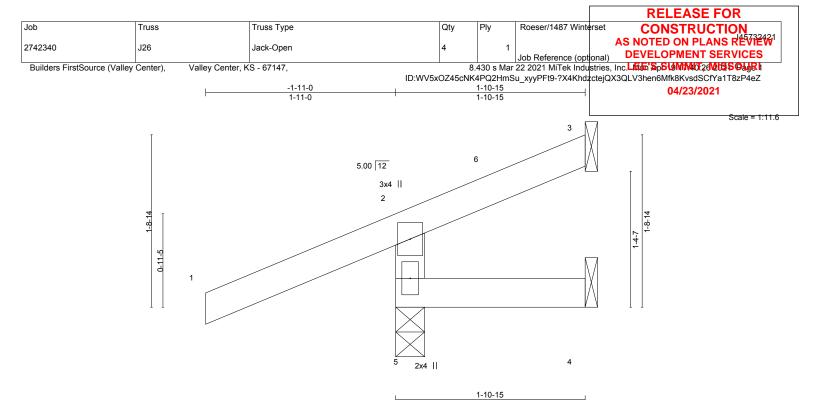
16023 Swingley Ridge Rd Chesterfield, MO 63017



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16023 Swingley Ridge Rd Chesterfield, MO 63017

MiTek



							1	-10-15				
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	0.30	Vert(LL)	0.00	4-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	0.00	4-5	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-MR						Weight: 8 lb	FT = 20%

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

BRACING-TOP CHORD

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

- REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=48(LC 9) Max Uplift 5=-78(LC 8), 3=-14(LC 12), 4=-7(LC 1) Max Grav 5=308(LC 1), 3=4(LC 17), 4=26(LC 3)
- FORCES. (lb) Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-266/207

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) -1-11-0 to 1-1-0, Interior(1) 1-1-0 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.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 78 lb uplift at joint 5, 14 lb uplift at joint 3 and 7 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.





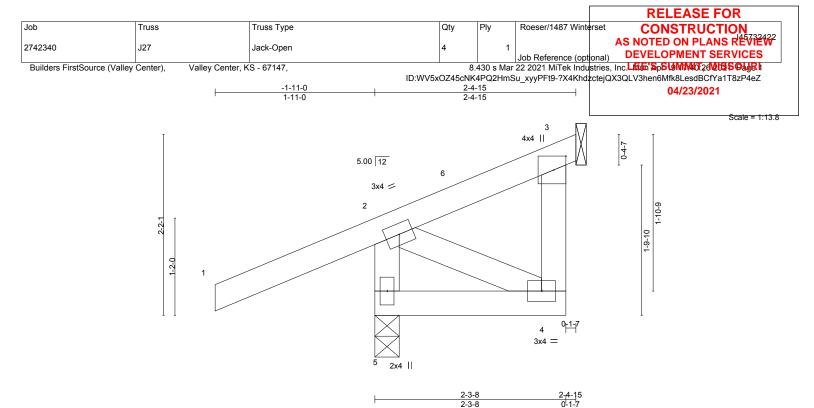


Plate Offse	ets (X,Y)	[3:0-2-0,0-1-12]									1	
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	-0.00	5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	4-5	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-MP						Weight: 13 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 2-4-15 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) 5=0-3-8, 3=Mechanical, 3=Mechanical

Max Horz 5=52(LC 11) Max Uplift 5=-70(LC 8), 3=-32(LC 25)

Max Grav 5=309(LC 1), 3=39(LC 3), 3=19(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-289/200

NOTES-

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

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

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 70 lb uplift at joint 5 and 32 lb uplift at joint 3.

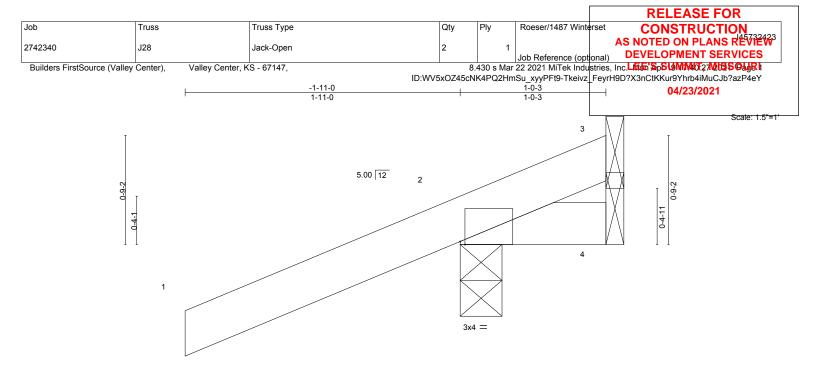
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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



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									1-0-3			
Plate Offse	ets (X,Y)	[2:0-0-6,Edge]		_								
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)	0.00	5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	5	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-MP						Weight: 5 lb	FT = 20%

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

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

103

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical Max Horz 2=42(LC 8) Max Uplift 3=-28(LC 1), 2=-111(LC 8), 4=-55(LC 1)

Max Grav 3=20(LC 8), 2=307(LC 1), 4=34(LC 8)

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

NOTES-

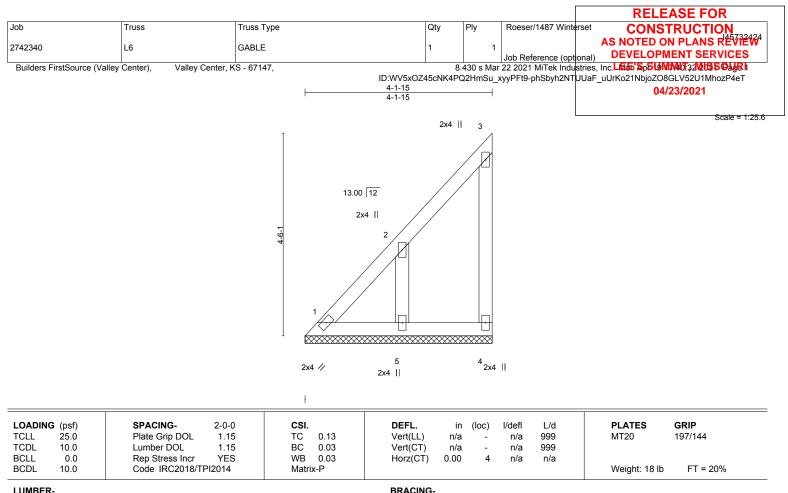
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right
- exposed;C-C for members and forces & MWFRS for reactions 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 28 lb uplift at joint 3, 111 lb uplift at joint 2 and 55 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.







TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 1=4-1-15, 4=4-1-15, 5=4-1-15

Max Horz 1=142(LC 9) Max Uplift 1=-37(LC 8), 4=-50(LC 9), 5=-134(LC 12)

Max Grav 1=116(LC 20), 4=85(LC 19), 5=229(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-254/261

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) 0-4-0 to 3-4-0, Interior(1) 3-4-0 to 4-0-3 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) Gable requires continuous bottom chord bearing.

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 37 lb uplift at joint 1, 50 lb uplift at joint 4 and 134 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.

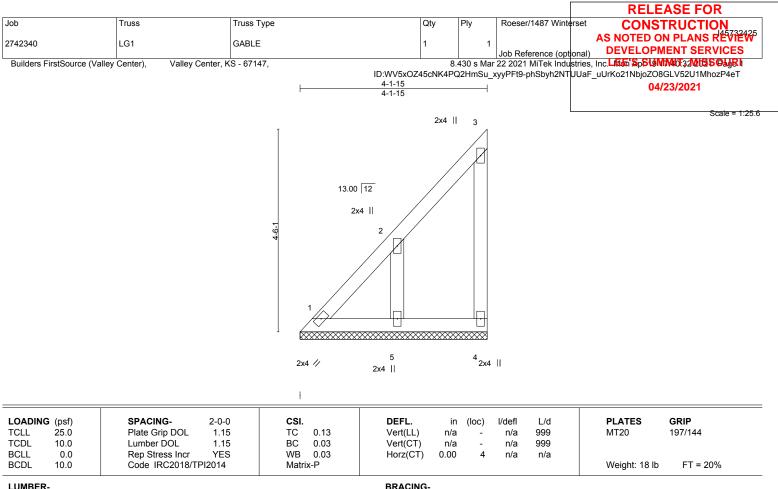


Structural wood sheathing directly applied or 4-1-15 oc purlins,

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

except end verticals.





TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 1=4-1-15, 4=4-1-15, 5=4-1-15

Max Horz 1=142(LC 9) Max Uplift 1=-37(LC 8), 4=-50(LC 9), 5=-134(LC 12)

Max Grav 1=116(LC 20), 4=85(LC 19), 5=229(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-254/261

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) 0-4-0 to 3-4-0, Interior(1) 3-4-0 to 4-0-3 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) Gable requires continuous bottom chord bearing.

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 37 lb uplift at joint 1, 50 lb uplift at joint 4 and 134 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.

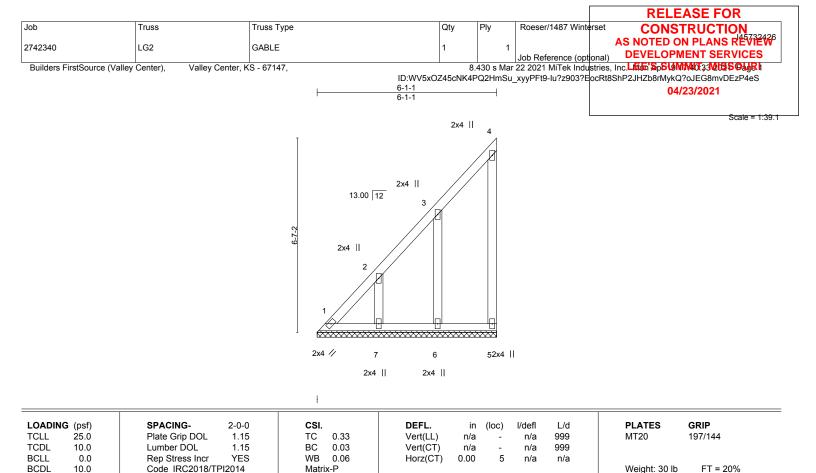


Structural wood sheathing directly applied or 4-1-15 oc purlins,

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

except end verticals.





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 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2

 WEBS
 2x4 SPF No.2

 OTHERS
 2x4 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. All bearings 6-1-1.

(lb) - Max Horz 1=217(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 6=-124(LC 12), 7=-123(LC 12) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 6, 7

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

TOP CHORD 1-2=-401/403, 2-3=-284/289

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) 0-4-0 to 3-4-0, Interior(1) 3-4-0 to 5-11-5 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) Gable requires continuous bottom chord bearing.

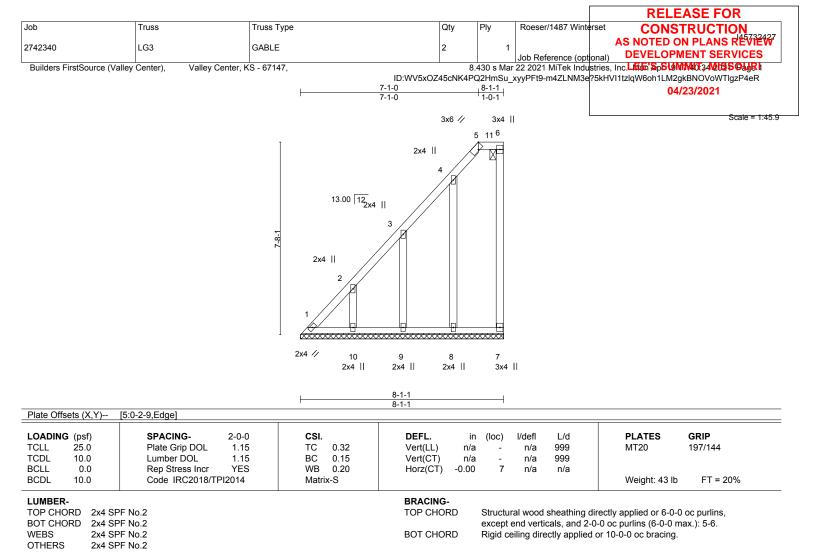
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 6=124, 7=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.







REACTIONS. All bearings 8-1-1.

(lb) - Max Horz 1=263(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 8 except 9=-128(LC 12), 10=-122(LC 12) Max Grav All reactions 250 lb or less at joint(s) 1, 7, 8, 9, 10

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

TOP CHORD 1-2=-472/468, 2-3=-356/357, 3-4=-258/272

WFBS 4-8=-296/228

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) 0-4-0 to 3-4-0, Interior(1) 3-4-0 to 7-1-0, Exterior(2E) 7-1-0 to 7-11-5 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) 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.

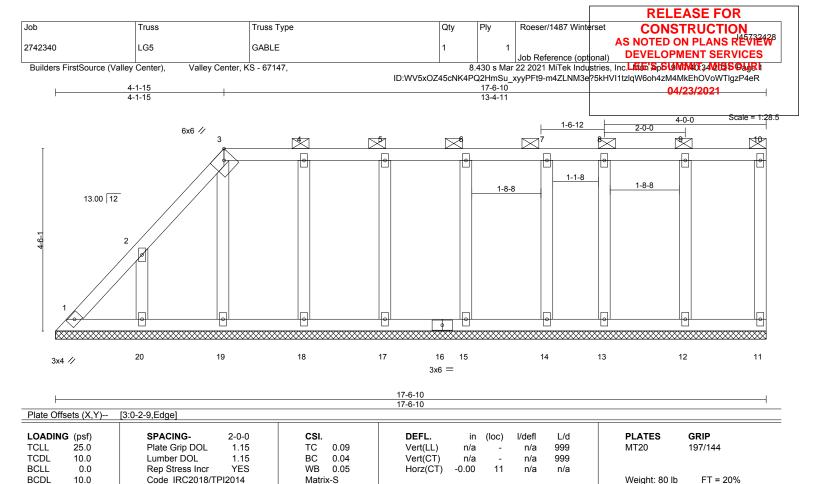
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 8 except (jt=lb) 9=128, 10=122.

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







BRACING-

TOP CHORD

BOT CHORD

NOTES-

LUMBER-

WEBS

OTHERS

BOT CHORD

REACTIONS.

TOP CHORD 2x4 SPF No.2

(lb) -

2x4 SPF No.2

2x4 SPF No.2

2x4 SPF No.2

Max Grav

All bearings 17-6-10. Max Horz 1=151(LC 9)

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) 0-4-0 to 3-4-0, Interior(1) 3-4-0 to 4-1-15, Exterior(2R) 4-1-15 to 8-1-10, Interior(1) 8-1-10 to 17-4-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Max Uplift All uplift 100 lb or less at joint(s) 1, 11, 12, 13, 14, 15, 17, 18, 19 except 20=-138(LC 12) All reactions 250 lb or less at joint(s) 1, 11, 12, 13, 14, 15, 17, 18, 19, 20

2) Provide adequate drainage to prevent water ponding.

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

4) Gable requires continuous bottom chord bearing.

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

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 11, 12, 13, 14, 15, 17, 18, 19 except (it=lb) 20=138.

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.

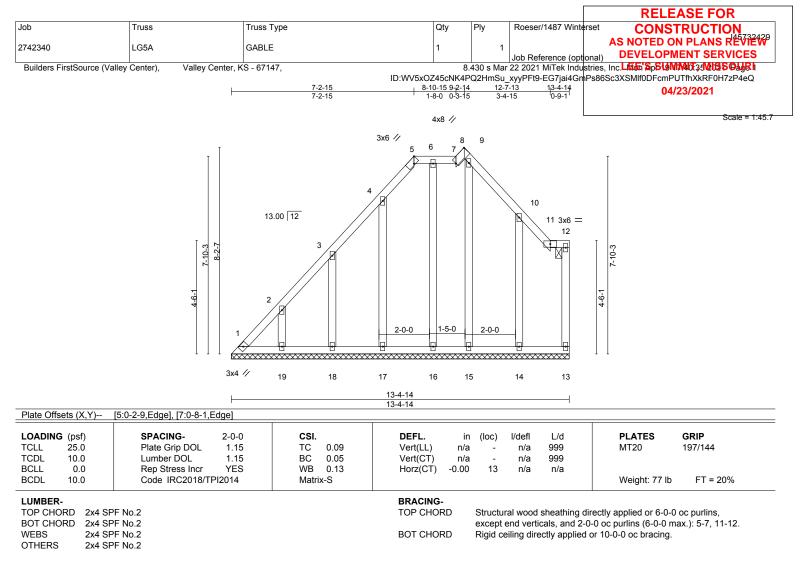


Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-10.

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





REACTIONS. All bearings 13-4-14

Max Horz 1=231(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 13, 17, 16, 15 except 1=-136(LC 8), 19=-118(LC 12), 18=-131(LC 12). 14 = -110(LC 13)Max Grav All reactions 250 lb or less at joint(s) 1, 13, 19, 18, 17, 16, 15, 14

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown TOP CHORD 1-2=-275/241

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) 0-4-0 to 3-4-0, Interior(1) 3-4-0 to 7-2-15, Exterior(2E) 7-2-15 to 8-10-15, Interior(1) 8-10-15 to 9-2-14, Exterior(2R) 9-2-14 to 12-2-14, Interior(1) 12-2-14 to 13-3-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding. All plates are 2x4 MT20 unless otherwise indicated.

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) 13, 17, 16, 15 except (jt=lb) 1=136, 19=118, 18=131, 14=110.

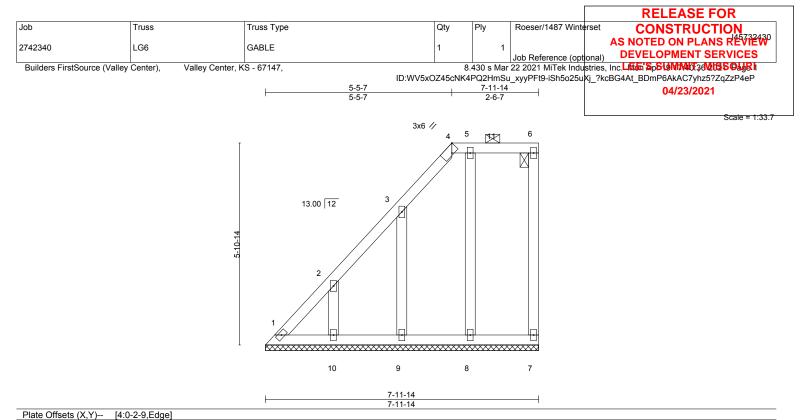
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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



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

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LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYES	CSI. TC 0.17 BC 0.09 WB 0.13		in (loc) /a - /a - 00 7	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES GRIP MT20 197/144		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	BRACING-				Weight: 39 lb FT = 20%		
	PF No.2		TOP CHORD				lirectly applied or 6-0-0 oc purlins,		

			Structural wood sheating directly applied of 0-0-0 oc putility,
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.
OTHERS	2x4 SPF No.2		

REACTIONS. All bearings 7-11-14.

(lb) - Max Horz 1=200(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 8 except 9=-105(LC 12), 10=-125(LC 12) Max Grav All reactions 250 lb or less at joint(s) 1, 7, 8, 9, 10

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

 TOP CHORD
 1-2=-354/353, 2-3=-248/254

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) 0-4-0 to 3-4-0, Interior(1) 3-4-0 to 5-5-7, Exterior(2E) 5-5-7 to 7-10-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Provide adequate drainage to prevent water ponding.

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

4) Gable requires continuous bottom chord bearing.

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

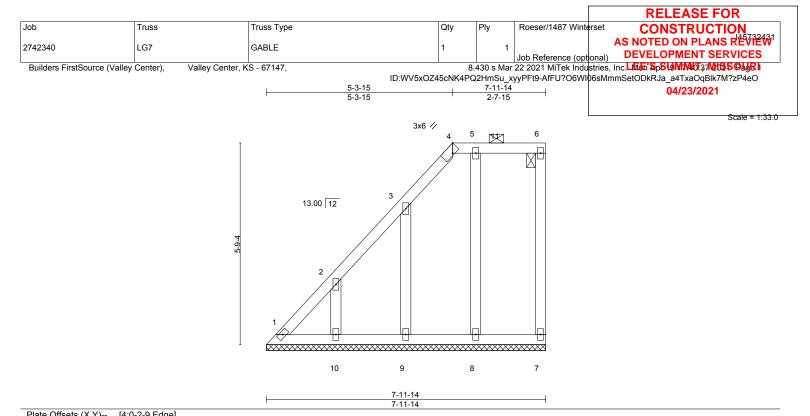
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 8 except (jt=lb) 9=105, 10=125.

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.







OADING (psf) CLL 25.0 CDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.17 BC 0.08	DEFL. in (loc) l/defl L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999 Vert(CT) 0.02 - n/a 999	PLATES GRIP MT20 197/144
3CLL 0.0 3CDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.12 Matrix-S	Horz(CT) -0.00 7 n/a n/a	Weight: 39 lb FT = 20%

TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins,
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.
OTHERS	2x4 SPF No.2		

REACTIONS. All bearings 7-11-14.

(lb) - Max Horz 1=196(LC 9)

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

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-344/343

NOTES-

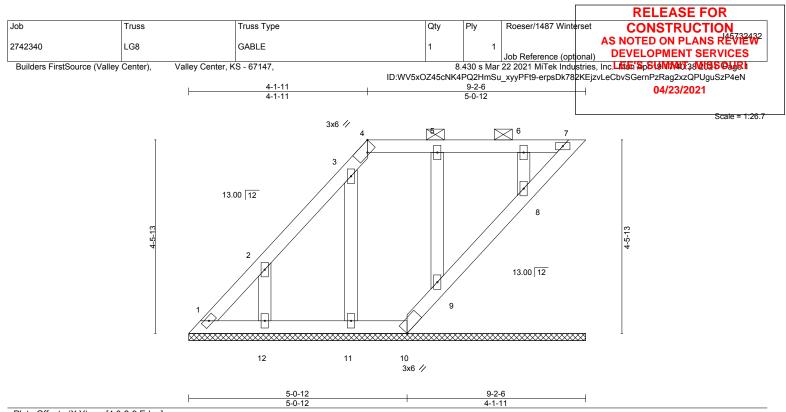
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-0 to 3-4-0, Interior(1) 3-4-0 to 5-3-15, Exterior(2E) 5-3-15 to 7-10-2 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) All plates are 2x4 MT20 unless otherwise indicated.

4) Gable requires continuous bottom chord bearing.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 8 except (jt=lb) 9=100, 10=126.
- 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.



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.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 0.06 BC 0.03 WB 0.03	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) n/a - n/a - -0.00 7	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144
3CDL 10.0	Code IRC2018/TPI2014	Matrix-S		-0.00 7	11/a	n/a	Weight: 35 lb	FT = 20%
UMBER-			BRACING-					
	PF No.2 PF No.2	TOP CHORE			sheathing dir (6-0-0 max.):	ectly applied or 6-0-0 4-7.	oc purlins, except	

LOWDER-		DIVACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except
BOT CHORD	2x4 SPF No.2		2-0-0 oc purlins (6-0-0 max.): 4-7.
OTHERS	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
			6-0-0 oc bracing: 7-8.

REACTIONS. All bearings 9-2-6.

Max Horz 1=154(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 10, 11, 9, 8 except 12=-123(LC 12) Max Grav All reactions 250 lb or less at joint(s) 1, 7, 10, 12, 11, 9, 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) 0-4-0 to 3-4-0, Interior(1) 3-4-0 to 4-1-11, Exterior(2R) 4-1-11 to 7-1-11, Interior(1) 7-1-11 to 8-10-6 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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

5) Gable requires continuous bottom chord bearing.

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 10, 11, 9, 8 except (it=lb) 12=123.

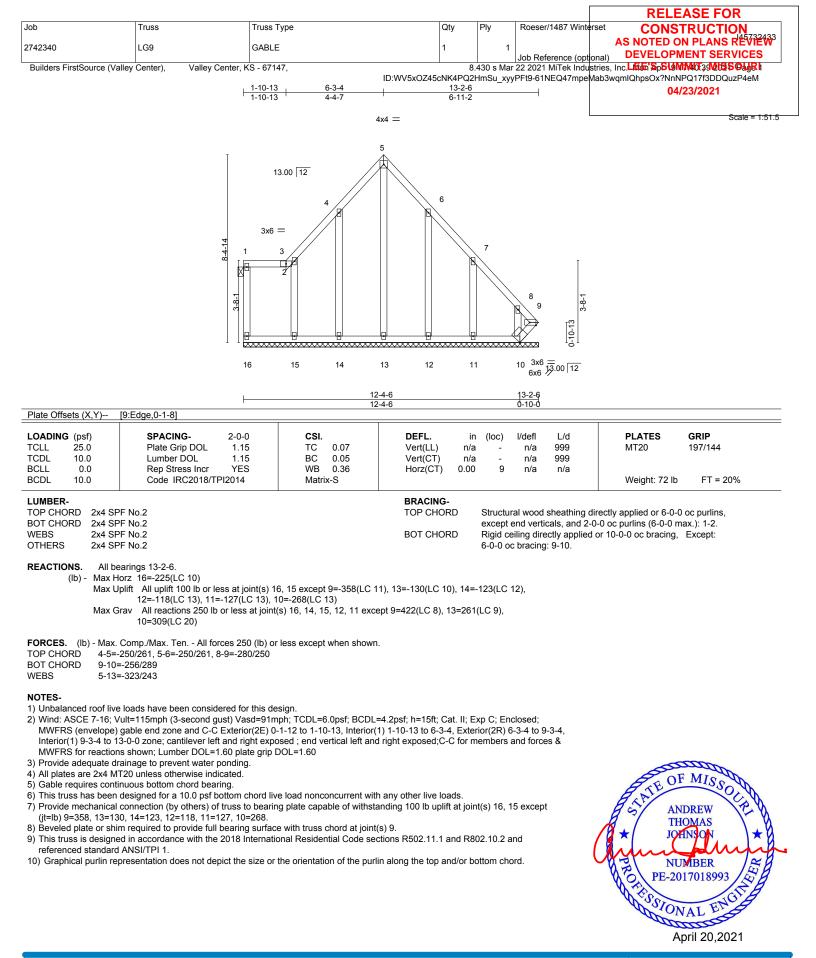
8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 7, 9, 8.

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.

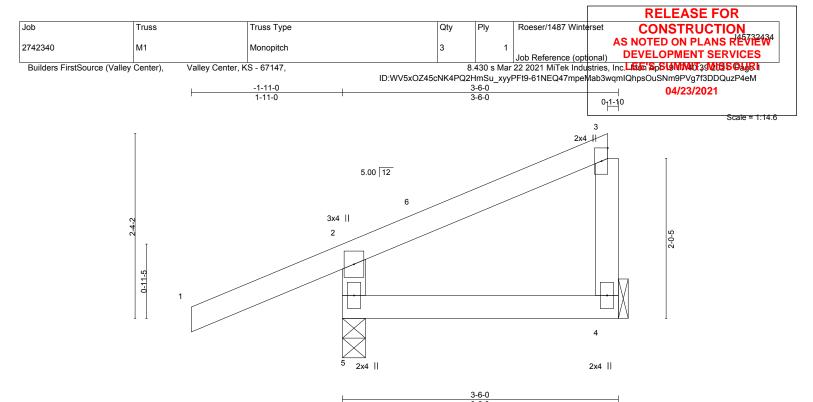
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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nponent 16023 Swingley Ridge Rd Chesterfield, MO 63017



				1	3-6-0					
LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (lo	oc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.	0.30 Vert(LL)	-0.00 4	4-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.	0.07 Vert(CT)	-0.01 4	4-5	>999	180		
BCLL	0.0	Rep Stress Incr YES	WB 0.	0.00 Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-M	MR					Weight: 13 lb	FT = 20%

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

WEBS 2x4 SPF No.2

BRACING-TOP CHORD BOT CHORD

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

REACTIONS. 4=Mechanical, 5=0-3-8 (size) Max Horz 5=93(LC 9) Max Uplift 4=-28(LC 9), 5=-78(LC 8) Max Grav 4=98(LC 1), 5=335(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-296/227

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) -1-11-0 to 1-1-0, Interior(1) 1-1-0 to 3-4-4 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.

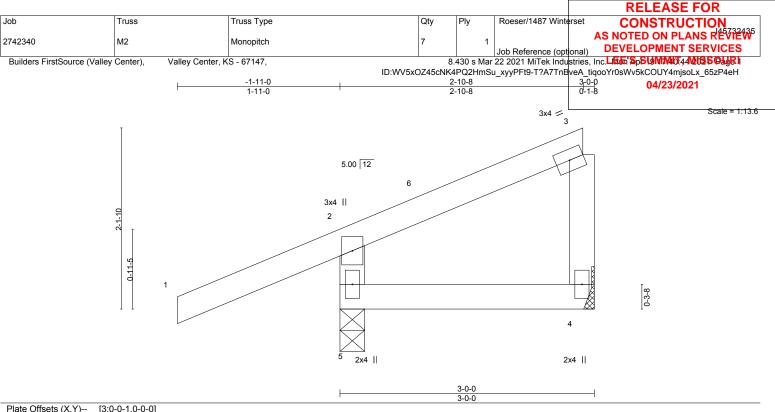
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.

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.







LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc) l/de	fl L/d	PLATES C	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.30	Vert(LL) -0.00	4-5 >99	9 240	MT20 1	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.05	Vert(CT) -0.00	4-5 >99	9 180		
BCLL 0.0	Rep Stress Incr YES	WB 0.01	Horz(CT) -0.00	4 n/	a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS				Weight: 12 lb	FT = 20%

 LUMBER BRACING

 TOP CHORD
 2x4 SPF No.2
 TOP CHORD
 TOP CHORD
 Structural wood sheathing directly applied or 3-0-0 oc purlins, except end verticals.

 BOT CHORD
 2x4 SPF No.2
 BOT CHORD
 Structural wood sheathing directly applied or 3-0-0 oc purlins, except end verticals.

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

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

Max Horz 5=59(LC 12) Max Uplift 5=-68(LC 8), 4=-26(LC 12)

Max Grav 5=321(LC 1), 4=65(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-284/207

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) -1-11-0 to 1-1-0, Interior(1) 1-1-0 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.

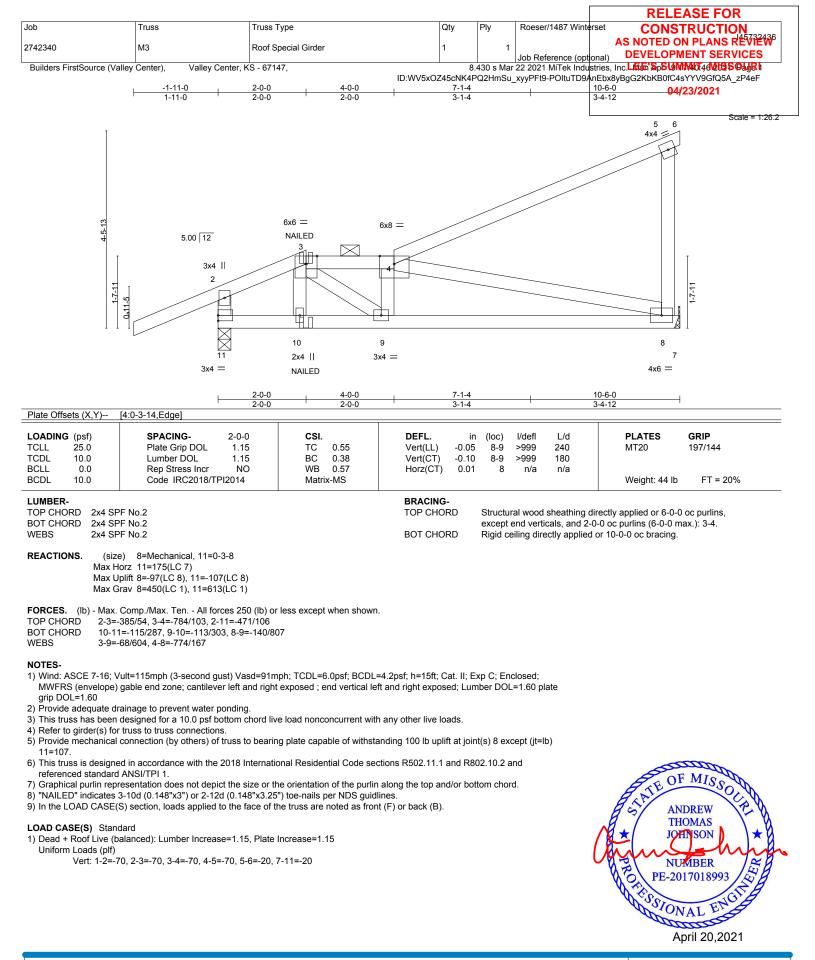
4) Refer to girder(s) for truss to truss connections.

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

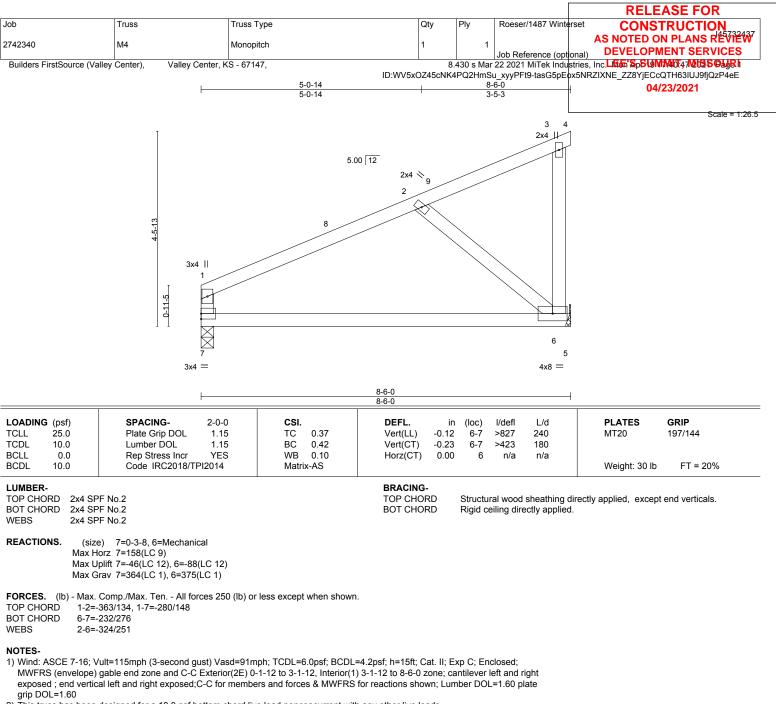
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



ANDREW THOMAS JOHNSON NUMBER PE-2017018993



0 BEFORE USE. proponent, not into the overall permanent bracing ng the BCSI Building Component BCSI Building Component



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.

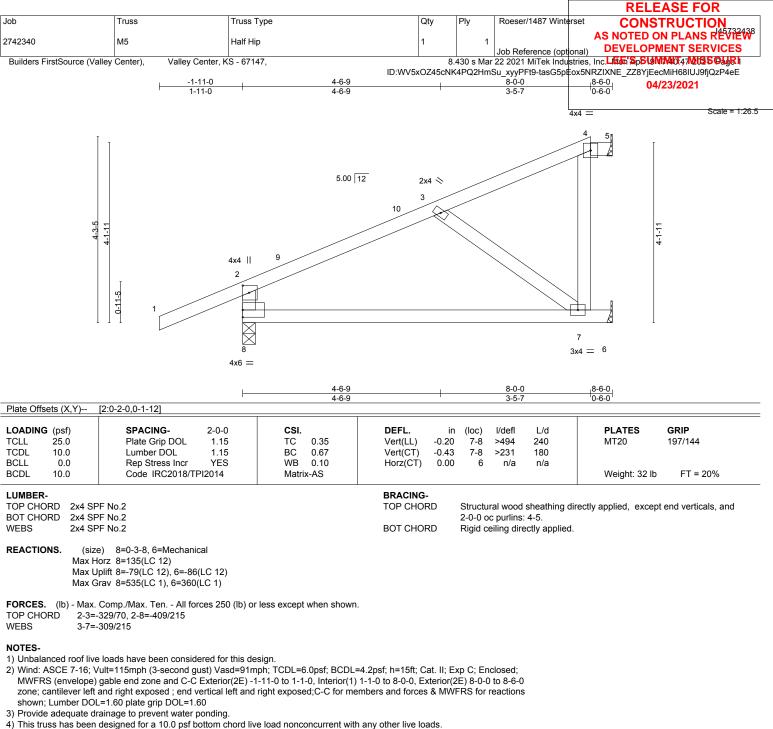
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 6.

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.



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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) 8, 6.

7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and

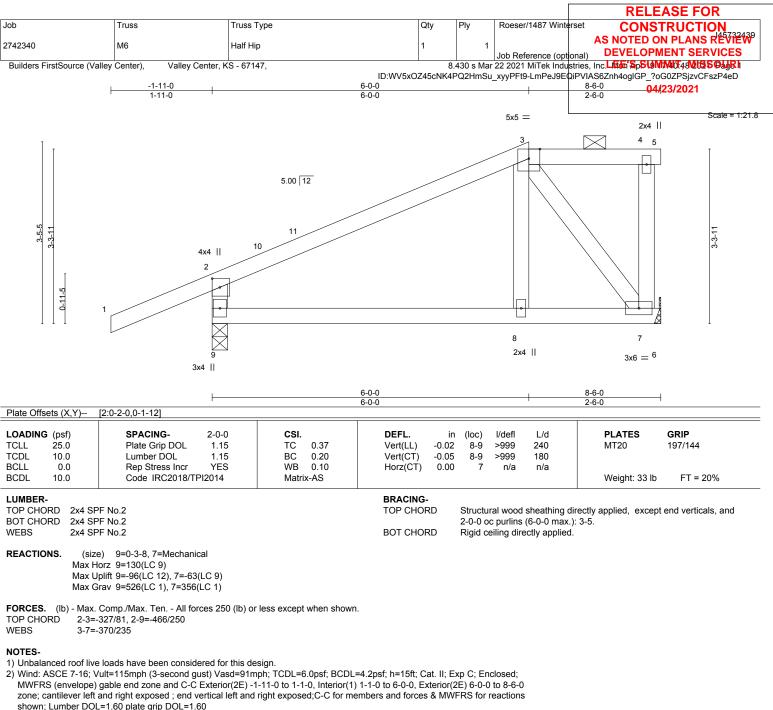
referenced standard ANSI/TPI 1.

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.







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.

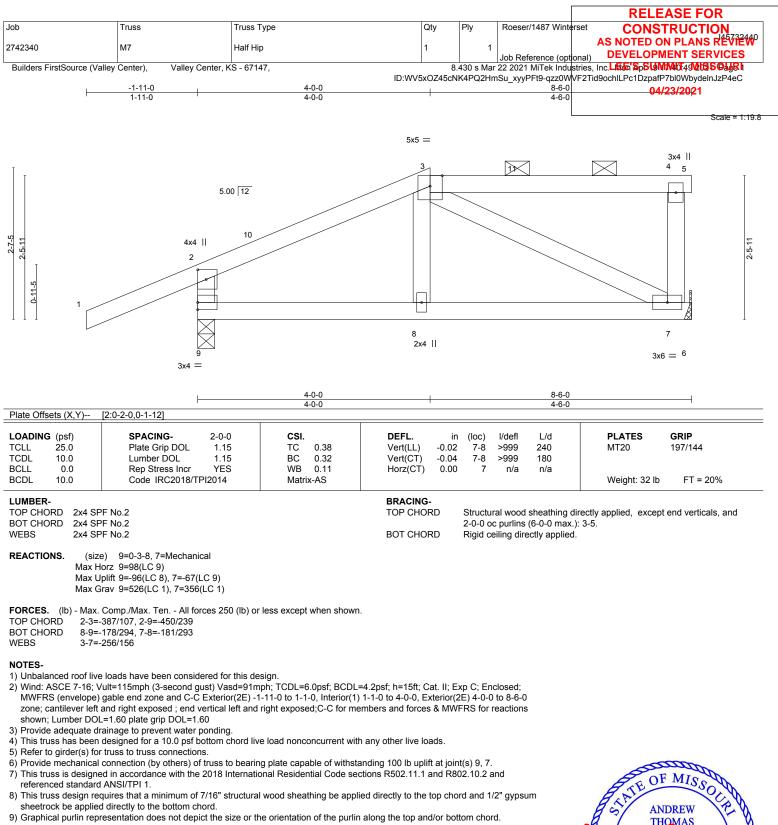
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 7.

- 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.



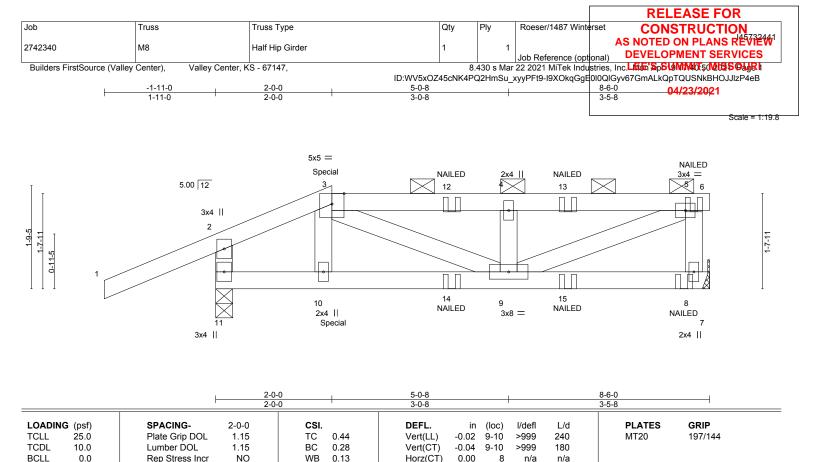






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BRACING-

TOP CHORD

BOT CHORD

11	JM	IB	E	P_

BCDL

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

10.0

2x4 SPF No.2

REACTIONS. 8=Mechanical, 11=0-3-8 (size) Max Horz 11=65(LC 35) Max Uplift 8=-73(LC 5), 11=-109(LC 4) Max Grav 8=359(LC 22), 11=526(LC 1)

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

2-3=-321/54, 3-4=-539/99, 4-5=-537/98, 5-8=-319/85, 2-11=-419/103 TOP CHORD

Code IRC2018/TPI2014

BOT CHORD 10-11=-70/257, 9-10=-73/262

WEBS 3-9=-71/324, 4-9=-261/91, 5-9=-104/532

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

Matrix-MS

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) 8 except (jt=lb) 11 = 109

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) 104 lb down and 26 lb up at 2-0-0 on top chord, and 34 lb down and 40 lb up at 2-0-0 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: 1-2=-70, 2-3=-70, 3-5=-70, 5-6=-20, 7-11=-20



Weight: 33 lb

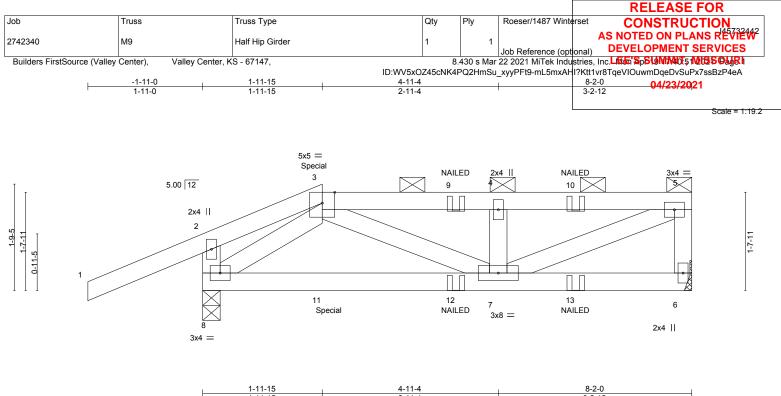
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

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

FT = 20%

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			1-1	1-15		2-11-4					3-2-12	
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	0.34	Vert(LL)	-0.02	7-8	>999	240	MT20	197/144
CDL	10.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	-0.04	7-8	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-MP						Weight: 33 lb	FT = 20%

TOP CHORD 2x4 SPF No 2 2x4 SPF No.2 BOT CHORD 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.): 3-5. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. 6=Mechanical, 8=0-3-8 (size) Max Horz 8=65(LC 7) Max Uplift 6=-65(LC 5), 8=-108(LC 4) Max Grav 6=338(LC 22), 8=518(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. 3-4=-527/87, 4-5=-524/85, 5-6=-317/71, 2-8=-290/120

TOP CHORD

BOT CHORD 7-8=-87/262

WEBS 3-7=-39/302, 4-7=-262/94, 5-7=-101/572, 3-8=-354/36

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) 6 except (jt=lb) 8=108

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) 105 lb down and 26 lb up at 1-11-15 on top chord, and 22 lb down and 24 lb up at 1-11-15, and 12 lb down and 16 lb up at 2-2-12 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

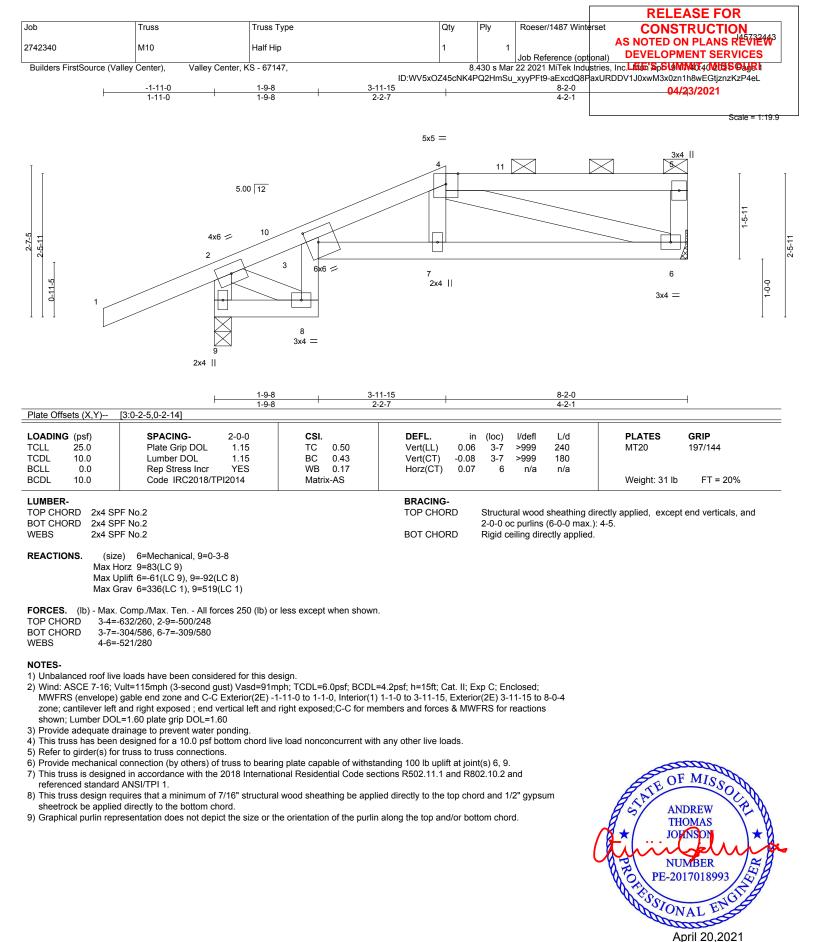
Uniform Loads (plf)

Vert: 1-2=-70, 2-3=-70, 3-5=-70, 6-8=-20

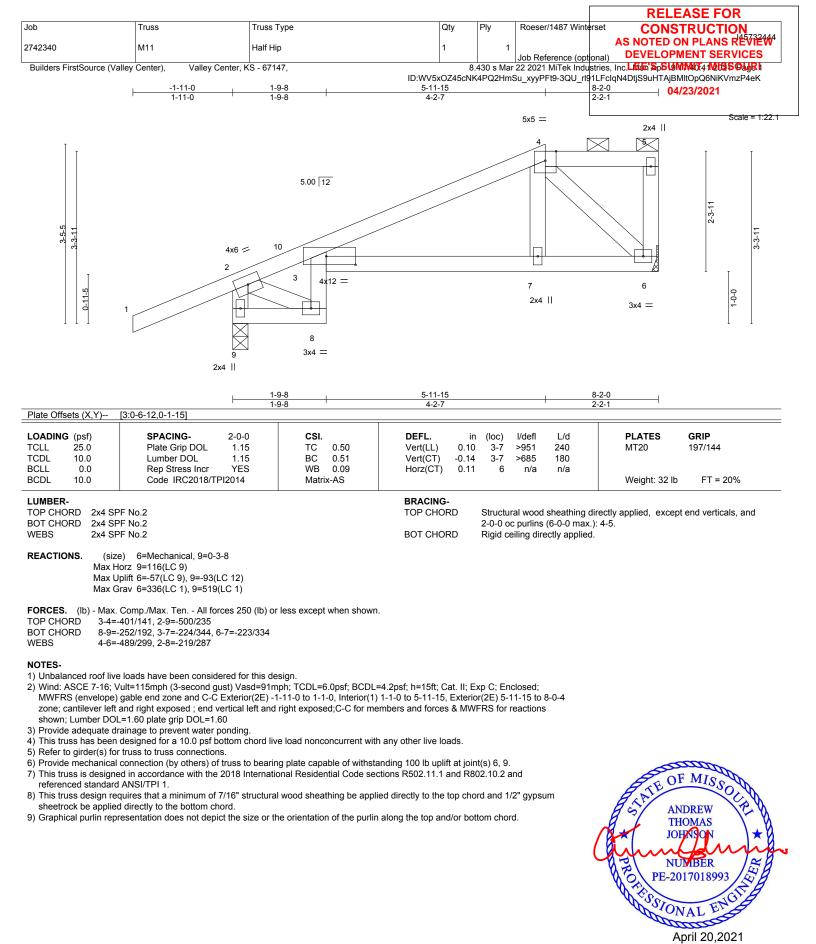


April 20,2021









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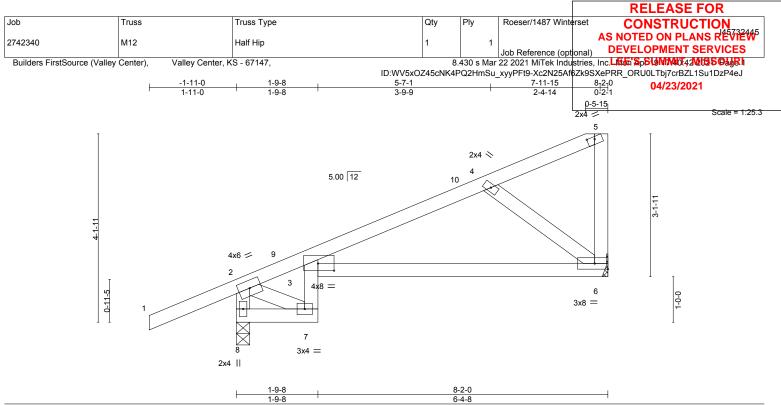


Plate Off	fsets (X,Y)	[3:0-4-4,0-1-14], [5:0-2-0	,0-0-11]									
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	0.10	3-6	>954	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.20	3-6	>469	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.12	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matri	x-AS						Weight: 31 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, except end verticals. Rigid ceiling directly applied.

REACTIONS. (size) 6=Mechanical, 8=0-3-8 Max Horz 8=154(LC 9) Max Uplift 6=-78(LC 12), 8=-89(LC 12)

Max Grav 6=336(LC 1), 8=519(LC 1)

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

TOP CHORD 3-4=-385/101, 2-8=-500/229

BOT CHORD 7-8=-290/244, 3-6=-240/349

WEBS 4-6=-398/252, 2-7=-278/329

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) -1-11-0 to 1-1-0, Interior(1) 1-1-0 to 8-0-4 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.

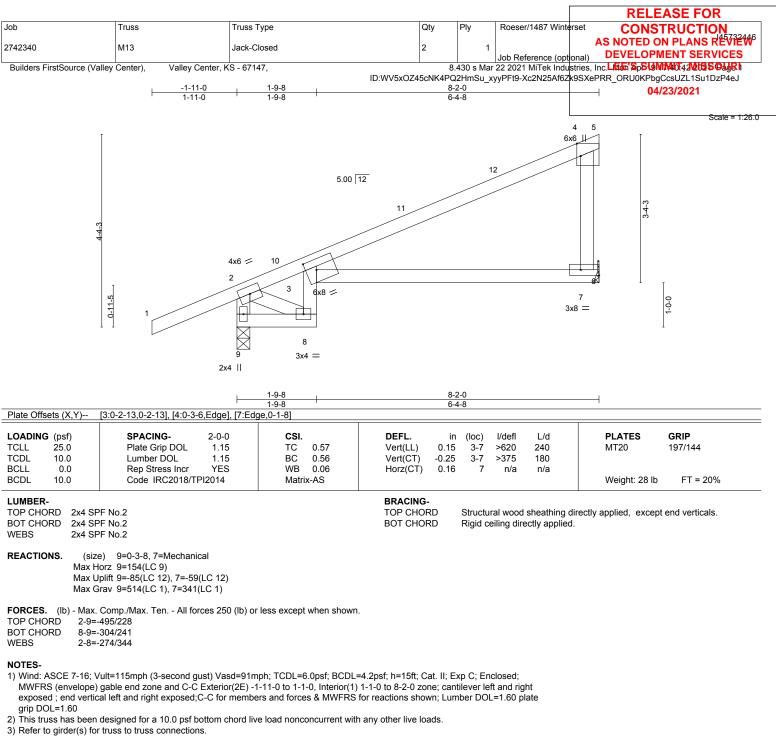
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 8.

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) 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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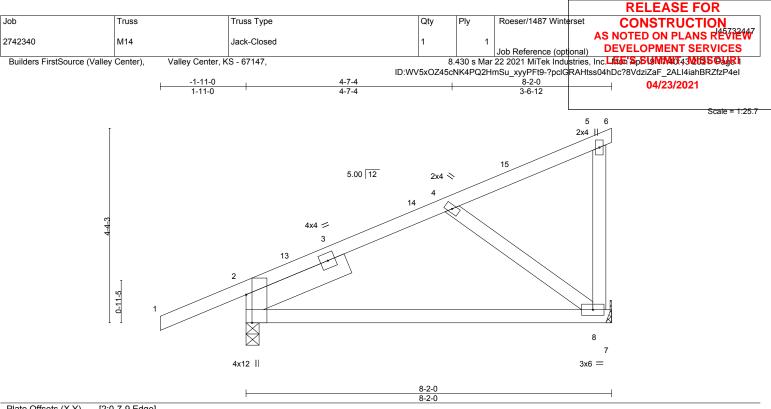
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 7.

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.



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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) -0.10 8-11 >933 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.45	Vert(CT) -0.20 8-11 >469 180	
BCLL 0.0	Rep Stress Incr YES	WB 0.10	Horz(CT) 0.01 2 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS	. ,	Weight: 35 lb FT = 20%

 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2

 WEBS
 2x4 SPF No.2

 SLIDER
 Left 2x6 SPF No.2 - t 2-6-0

BRACING-TOP CHORD BOT CHORD

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

REACTIONS. (size) 2=0-3-8, 8=Mechanical Max Horz 2=163(LC 11) Max Uplift 2=-84(LC 12), 8=-60(LC 12)

Max Grav 2=506(LC 1), 8=350(LC 1)

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

TOP CHORD 2-4=-580/106 BOT CHORD 2-8=-212/261

WEBS 4-8=-323/208

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) -1-11-0 to 1-1-0, Interior(1) 1-1-0 to 8-2-0 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.

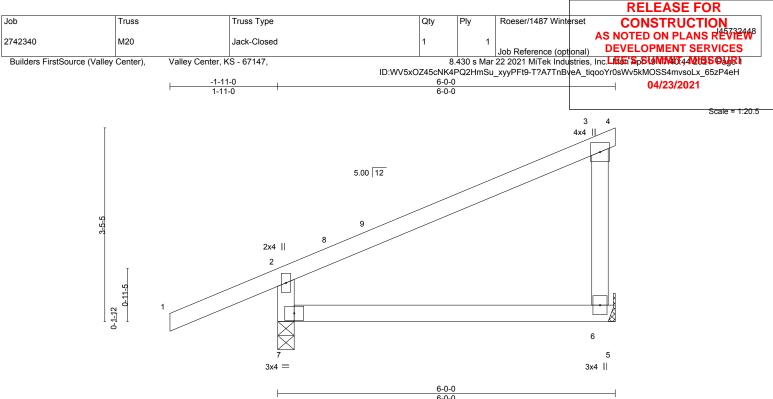
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and

referenced standard ANSI/TPI 1.

6) 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.







				6-0-0
LOADIN	· · · ·	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) -0.03 6-7 >999 240 MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.19	Vert(CT) -0.05 6-7 >999 180
BCLL	0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 6 n/a n/a
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS	Weight: 20 lb FT = 20%

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 SPF No.2 REACTIONS. (size) 6=Mecha
 - CTIONS. (size) 6=Mechanical, 7=0-3-8 Max Horz 7=134(LC 9) Max Uplift 6=-57(LC 12), 7=-76(LC 12) Max Grav 6=236(LC 1), 7=422(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-7=-375/250

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) -1-11-0 to 1-1-0, Interior(1) 1-1-0 to 6-0-0 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) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify

capacity of bearing surface.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 7.6) 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.

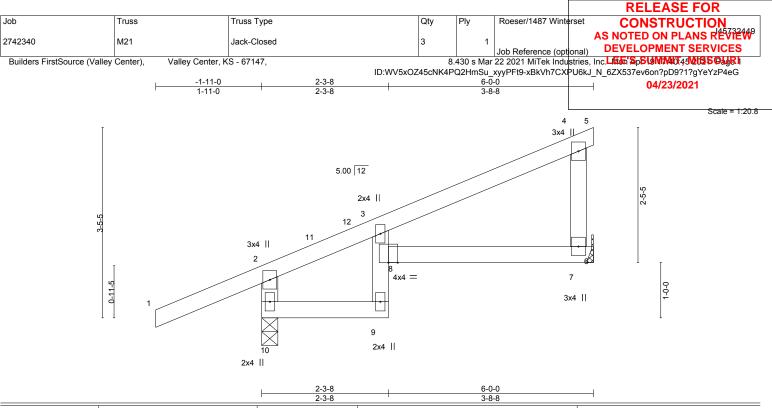
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.





			2-3-8	1	3-8-8	
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 0.29	Vert(LL) 0.04	7-8 >999 240	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.23	Vert(CT) -0.06	7-8 >999 180	
BCLL	0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.03	7 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS			Weight: 21 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No 2 BOT CHORD WEBS

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

REACTIONS. 10=0-3-8, 7=Mechanical (size) Max Horz 10=119(LC 9) Max Uplift 10=-75(LC 12), 7=-59(LC 12) Max Grav 10=422(LC 1), 7=236(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-10=-374/221

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) -1-11-0 to 1-1-0, Interior(1) 1-1-0 to 6-0-0 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 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) 10, 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.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.



