





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

Re: 2851482

Summit/129 Manor

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: I46835191 thru I46835274

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

Missouri COA: Engineering 001193



July 2,2021

Sevier, Scott

,Engineer

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.

Job Truss Truss Type Qty Ply Summit/129 Manor
2851482 A01 HIP GIRDER 1 3 Job Reference (optional)

RELEASE FOR CONSTRUCTION

AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVERS 1

LEE'S SUMMIT, MISSOURI

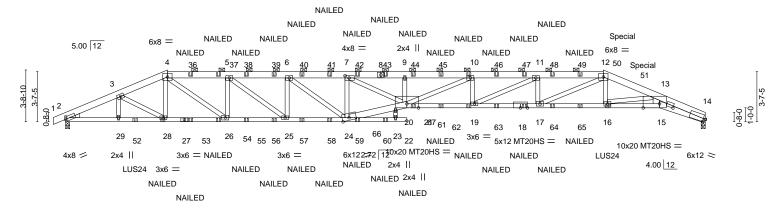
8.430 s Jun 2 2021 MiTek Industries,

nc. Thu to + 1/50:39 3021 5 39 12 B6EPO(xf) V/c? LWP(00) /K 220 RU 2 42-8-8 46-0-0

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

ID:tjnOHGeVPJTyi41JASwyTKzhfUX-7w9CtlZjEzwJcbHvm36EPOtxf 3-9-11 7-3-14 11-7-9 15-11-3 20-2-14 24-6-8 29-3-1 33-11-9 38-8-2 42-8-8 3-9-11 3-6-3 4-3-10 4-3-10 4-3-10 4-3-10 4-8-9 4-8-9 4-8-9

Scale = 1:82.8



	3-9-11		9 15-1	1-3 20-2	2-14	23-10-8 24-6 _F 8 2	29-3-1	;	33-11-9	38-8-2	42-8-8	46-0-0
	3-9-11	1 ' 3-6-3 ' 4-3-1	0 4-3-	10 ' 4-3	-10	3-7-10 0-8-0	4-8-9	1	4-8-9	4-8-9	4-0-6	3-3-8
Plate Offse	ets (X,Y)	[2:0-0-14,0-2-0], [7:0-3-8,	0-2-0], [14:0-1	-13,0-2-9], [14	:2-5-9,0-0-	7], [15:1-2-2,Edge], [24:0-5	5-13,0-2	2-4]			
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC ().75	Vert(LL)	1.04	22	>533	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC (0.88	Vert(CT)	-1.45	22	>380	180	MT20HS	148/108
BCLL	0.0	Rep Stress Incr	NO	WB (0.56	Horz(CT)	0.39	14	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matrix-	MS	` ′					Weight: 684 lb	FT = 20%

BOT CHORD

LUMBER-TOP CHORD 2x6 SPF No.2 BRACINGTOP CHORD

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

2-27: 2x4 SPF No.2, 14-15,20-24: 2x6 SPF 2100F 1.8E

22-27: 2x4 SPF 1650F 1.5E

WEBS 2x4 SPF No.2 *Except* 13-15: 2x6 SPF No.2

WEDGE Left: 2x4 SP No.3

REACTIONS. (size) 14=0-3-8, 2=0-3-8 Max Horz 2=58(LC 12)

Max Uplift 14=-2648(LC 9), 2=-1209(LC 8)

Max Grav 14=3703(LC 1), 2=3884(LC 1)

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

TOP CHORD 2-3=-7843/2487, 3-4=-8130/2705, 4-5=-10643/3770, 5-6=-12718/4721, 6-7=-13960/5471,

7-9=-20053/8394, 9-10=-20034/8387, 10-11=-18772/8731, 11-12=-15560/8490,

12-13=-11708/8663, 13-14=-16705/12513

BOT CHORD 2-29=-2238/6987, 28-29=-2238/6987, 26-28=-2484/7591, 25-26=-3698/10641, 24-25=-4650/12718, 19-20=-8659/18772, 17-19=-8413/15559, 16-17=-7931/10867,

15-16=-10650/14074, 14-15=-11654/15565, 21-24=-5535/14309, 20-21=-5507/14251 3-28=-345/852, 4-26=-1529/3885, 5-26=-2116/920, 5-25=-1194/2642, 6-25=-1376/723,

6-24=-954/1598, 7-24=-3828/1773, 10-20=0/1442, 10-19=-1272/117, 11-19=-272/3593,

11-17=-2060/258, 12-17=-540/5266, 12-16=-575/1173, 13-16=-3195/2795,

13-15=-2480/3638, 9-20=-290/108, 7-20=-3293/6864

NOTES-

WEBS

1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x6 - 3 rows staggered at 0-4-0 oc.

Bottom chords connected as follows: 2x4 - 1 row at 0-5-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.

2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

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

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

5) Provide adequate drainage to prevent water ponding.

6) All plates are MT20 plates unless otherwise indicated.

7) All plates are 4x6 MT20 unless otherwise indicated.

(C) hthis druss base 2en designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



Structural wood sheathing directly applied or 5-6-0 oc purlins, except

Rigid ceiling directly applied or 9-9-4 oc bracing. Except:

2-0-0 oc purlins (5-6-2 max.): 4-12.

10-0-0 oc bracing: 20-21

July 2,2021

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

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

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



Job Truss Truss Type Qty Ply Summit/129 Manor 2851482 A01 HIP GIRDER 3

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

RELEASE FOR CONSTRUCTION

| Job Reference (optional) | 8.430 s Jun | 2 2021 MiTek Industries, Inc. | Thu B.430 s Jun 2 2021 MiTek Industries, Inc. Thu by 1159 32 3071 Page 2 ID:tjnOHGeVPJTyi41JASwyTKzhfUX-7w9CtlZjEzwJcbHvm36EPOuxfV7c2uWPC91jK92CRJJ

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

9) Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2648 lb uplift at joint 14 and 1209 lb uplift at joint 2.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent at 5-0-0 from the left end to connect truss(es) to front face of bottom chord.
- 14) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent at 39-0-0 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.
- 16) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 17) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 34 lb down and 1996 lb up at 39-0-0, and 287 lb down and 367 lb up at 41-0-0 on top 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, 4-12=-70, 12-14=-70, 24-33=-20, 22-24=-20, 15-20=-20, 15-30=-20, 20-21=-20

Concentrated Loads (lb)

Vert: 18=-72(F) 28=-79(F) 10=-89(F) 19=-72(F) 16=-165(F) 36=-81(F) 37=-81(F) 38=-81(F) 39=-81(F) 40=-81(F) 41=-81(F) 42=-81(F) 42=-81(F) 44=-89(F) 45=-89(F) 46=-89(F) 47=-89(F) 48=-89(F) 49=-89(F) 50=-0(F) 51=-237(F) 52=-467(F) 53=-80(F) 54=-80(F) 55=-80(F) 56=-80(F) 57=-80(F) 58=-80(F) 59=-80(F) 60=-80(F) 61=-72(F) 62=-72(F) 63=-72(F) 64=-72(F) 65=-72(F)



Job Truss Truss Type Qty Summit/129 Manor 2851482 A02 HIP

24-6-8

7-4-14

17-1-10

7-4-14

Job Reference (optional)

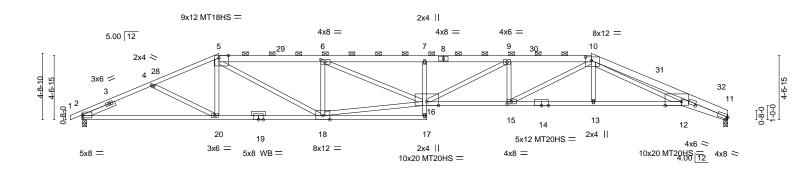
8.430 s Nov 18 2020 MiTek In ustries, Inc. Thu Jyl 1 15:33:27.2
ID:tjnOHGeVPJTyi41JASwyTKzhfUX-3pjkMg3d1RDPsOs WrWfw gHR/Ff 08 Y80 p/9y 30-4-14 36-3-5 39-7-5-10-6 5-10-6

Scale = 1:82.1

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

LEE'S SUMMIT, MISSOURI

DEVELOPMENT SERVIGES5192



	9-8-11	17-1-10)	24-6	-8	30-4-	14	36	i-3-5	39-7-10	42-8-8	46-0-0
	9-8-11	7-4-14	. '	7-4-1	14	5-10	-6	5-	10-6	3-4-6	3-0-14	3-3-8
Plate Offsets (X,Y)	2:Edge,0-2-11], [5:0-8-0	,Edge], [6:0-3-8	,0-2-0], [10:	0-5-0,0-3-0],	[11:0-0-13,0	1-13], [11:	2-5-9,0-0	-7], [12:1-	2-2,Edge],	[15:0-3-8,0-2	2-0]	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/T	2-0-0 1.15 1.15 YES PI2014	CSI. TC BC WB Matri	0.76 0.95 0.84 x-AS	DEFI Vert(Vert(Horz	L) -0.8 CT) -1.4	5 17-18		L/d 240 180 n/a	M' M' M'	_ATES 	GRIP 197/144 148/108 197/144 o FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Sheathed, except

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

Rigid ceiling directly applied.

LUMBER-

2x6 SPF No.2 *Except* TOP CHORD

Builders First Source, Valley Center, KS 67147

5-0-2

5-0-2

9-8-11

4-8-10

-0<u>-10-8</u> 0-10-8

1-5: 2x4 SPF 1650F 1.5E, 10-11: 2x6 SP 2400F 2.0E

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

2-19: 2x4 SPF 1650F 1.5E, 11-12: 2x6 SP 2400F 2.0E

17-19: 2x4 SPF No.2 WEBS 2x4 SPF No.2 *Except*

16-18,10-12: 2x4 SPF 1650F 1.5E

OTHERS 2x4 SPF No 2

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

REACTIONS. (size) 11=0-3-8, 2=0-3-8

Max Horz 2=74(LC 16)

Max Uplift 11=-272(LC 9), 2=-295(LC 8) Max Grav 11=2068(LC 1), 2=2130(LC 1)

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

TOP CHORD 2-3=-1175/0, 3-4=-4093/610, 4-28=-4022/603, 5-28=-3996/622, 5-29=-5348/898,

6-29=-5353/897, 6-7=-7351/1221, 7-8=-7413/1226, 8-9=-7413/1226, 9-30=-6664/1084,

10-30=-6661/1084, 10-31=-8236/1159, 31-32=-8296/1136, 11-32=-8302/1128

BOT CHORD 2-20=-512/3684, 19-20=-500/3703, 18-19=-500/3703, 17-18=-38/274, 15-16=-980/6663,

14-15=-684/5039, 13-14=-684/5039, 12-13=-682/5049, 11-12=-1021/7800 7-16=-452/158, 4-20=-12/270, 5-20=0/269, 5-18=-360/2022, 6-18=-1507/353

16-18=-782/5174, 6-16=-348/2134, 9-16=-173/946, 9-15=-883/232, 10-15=-351/2019,

10-13=0/322, 10-12=-357/2953

WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed: MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 9-8-11, Exterior(2R) 9-8-11 to 13-11-10, Interior(1) 13-11-10 to 36-3-5, Exterior(2R) 36-3-5 to 40-6-3, Interior(1) 40-6-3 to 46-0-0 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) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 272 lb uplift at joint 11 and 295 lb uplift at joint 2.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

OF MISS

SCOTT M.

SEVIER

PE-2001018807

July 2,2021

SSIONAL

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

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

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW Job Truss Truss Type Qty Summit/129 Manor **DEVELOPMENT SERVI©E3**5192 2851482 A02 HIP LEE'S SUMMIT. MISSOURI Job Reference (optional)

Builders First Source, Valley Center, KS 67147

NOTES-

8.430 s Nov 18 2020 MiTek In ustries, Inc. Thu Jyl 1 15;33:38.20 ID:tjnOHGeVPJTyi41JASwyTKzhfUX-X?H7Z04GoILC UYkiPEA9AyGclep tto 7TE)

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

Job Truss Truss Type Qty Summit/129 Manor 2851482 A03 HIP Job Reference (optional)

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW **DEVELOPMENT SERVIGES**5193

LEE'S SUMMIT, MISSOURI

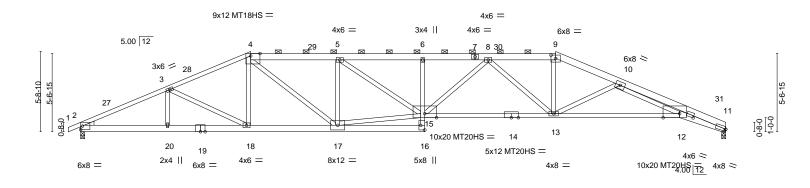
Builders First Source, Valley Center, KS 67147

-0<u>-10-8</u> 0-10-8 6-2-8 12-1-8 18-4-0 24-6-8 29-0-12 6-2-8 5-11-0 6-2-8 6-2-8 4-6-4

ustries, Inc. Thu Jyl 1 15:33:44 ?ynLbS<mark>/qGU</mark>LubGdI(K)I/6 ID:tjnOHGeVPJTyi41JASwyTKzhfUX-34EAwUHI1gM_ 33-10-8 38-3-8 42-4-9-12

8 430 s Nov 18 2020 MiTek II

Scale = 1:82.1



<u> </u>	6-2-8 6-2-8	12-1-8 5-11-0	18-4-0 6-2-8	24-6-8 6-2-8	33-10-8 9-4-0		42-8 8-10	-	46-0-0 3-3-8
Plate Offsets (X,Y)	[4:0-8-0,Edge], [9	9:0-4-0,0-2-14], [11	:2-5-9,0-0-7], [11:0	-0-13,0-1-13], [12:1-2-2	2,Edge], [16:Edge,0-3-	8]			
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING Plate Grip Lumber D Rep Stres Code IRC	DOL 1.15	BC (DEF 0.75 Vert(0.90 Vert(1.00 Horz	LL) -0.59 13-15 CT) -1.16 13-15	>476	L/d 240 180 n/a	PLATES MT20 MT20HS MT18HS Weight: 236 lb	GRIP 197/144 148/108 197/144 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Sheathed, except

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

Rigid ceiling directly applied.

LUMBER-

TOP CHORD 2x6 SPF No.2 *Except*

1-4: 2x4 SPF No.2, 9-11: 2x6 SPF 2100F 1.8E

BOT CHORD 2x4 SPF No.2 *Except*

2-19: 2x6 SPF 2100F 1.8E, 14-15: 2x4 SPF 1650F 1.5E 11-12: 2x6 SP 2400F 2.0E, 16-19: 2x6 SPF No.2

12-14: 2x4 SP 2400F 2.0E

2x4 SPF No.2 **WEBS**

WEDGE

Left: 2x4 SPF No.2

REACTIONS. (size) 11=0-3-8, 2=0-3-8

Max Horz 2=89(LC 16)

Max Uplift 11=-245(LC 9), 2=-269(LC 8) Max Grav 11=2069(LC 1), 2=2132(LC 1)

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

TOP CHORD 2-27=-4222/517, 3-27=-4129/541, 3-28=-3931/560, 4-28=-3855/579, 4-29=-4469/715,

5-29=-4474/713. 5-6=-5608/866. 6-7=-5669/870. 7-8=-5669/870. 8-30=-4454/645.

9-30=-4453/645, 9-10=-4810/675, 10-31=-8672/1038, 11-31=-8683/1017

2-20=-457/3811, 19-20=-457/3811, 18-19=-457/3811, 17-18=-432/3564, 16-17=-93/486, $6-15 = -373/128,\ 14-15 = -695/5250,\ 13-14 = -695/5250,\ 12-13 = -665/5406,\ 11-12 = -919/8173$

3-18=-288/167, 4-18=-29/380, 4-17=-224/1332, 5-17=-1355/288, 15-17=-511/4057,

5-15=-189/1375, 8-15=-73/681, 8-13=-1199/254, 9-13=-164/1494, 10-13=-1133/250,

10-12=-272/3033

WEBS

BOT CHORD

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed: MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 12-1-8, Exterior(2R) 12-1-8 to 16-4-7, Interior(1) 16-4-7 to 33-10-8, Exterior(2R) 33-10-8 to 38-4-15, Interior(1) 38-4-15 to 46-0-0 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) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 245 lb uplift at joint 11 and 269 lb uplift at joint 2.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum

MiTek

ROTAL STONAL

16023 Swingley Ridge Rd Chesterfield, MO 63017

OF MISS

SCOTT M.

SEVIER

NT INTEN

PE-2001018807

July 2,2021

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RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW Job Truss Truss Type Qty Summit/129 Manor **DEVELOPMENT SERVI©E3**5193 2851482 A03 HIP LEE'S SUMMIT. MISSOURI Job Reference (optional)

Builders First Source, Valley Center, KS 67147

NOTES-

8.430 s Nov 18 2020 MiTek In ID:tjnOHGeVPJTyi41JASwyTKzhfUX-34EAwUHI1gM_

n ustries, Inc. Thu Jul 1 15:33:44 2021 F?ynLbS(q); UZubG dF(K)(1/6Z).820

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



19-6-6

5-0-2

14-6-5

7-1-6

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW **DEVELOPMENT SERVI©E3**5194

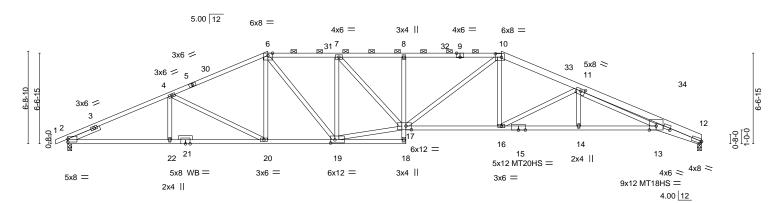
LEE'S SUMMIT, MISSOURI

8.430 s Nov 18 2020 MiTek In ustries, Inc ID:tjnOHGeVPJTyi41JASwyTKzhfUX-I5p?NNbcvfdl (?xns2) 42-8-8

37-1-2

5-7-6

Scale = 1:83.6



24-6-8

5-0-2

31-5-11

6-11-3

	1	7-4-14	14-6-5	19-6-6	24-6-8	31-5-11	37-1-2	42-8-8	46-0-0
	ı	7-4-14	7-1-6	5-0-2	5-0-2	6-11-3	5-7-6	5-7-6	3-3-8
Plate Offse	ets (X,Y)	[2:Edge,0-2-11], [9:0-3-0),Edge], [10:0-5-	4,0-3-0], [11:0-3-10,0	-2-0], [12:0-0-13,0	1-13], [12:2-5-5,0	-0-7], [17:0-4-12,0-3-4], [19:0-3-12,0-2-12]	
LOADING	(nsf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC 0.91	Vert(LL	(/	>988 240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 1.00	Vert(C1) -1.05 16-17	>526 180	MT20HS	148/108
BCLL	0.0	Rep Stress Incr	YES	WB 0.98	Horz(C	r) 0.43 12	n/a n/a	MT18HS	197/144
BCDL	10.0	Code IRC2018/T	PI2014	Matrix-AS				Weight: 216 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Sheathed, except

2-0-0 oc purlins (2-4-15 max.): 6-10.

Rigid ceiling directly applied.

LUMBER-

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

10-12: 2x6 SPF 2100F 1.8E

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

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

13-15: 2x4 SP 2400F 2.0E

WEBS 2x4 SPF No.2 2x4 SPF No.2 **OTHERS**

-0-10-8 0-10-8

7-4-14

7-4-14

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

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

Max Horz 2=105(LC 16)

Max Uplift 12=-219(LC 9), 2=-242(LC 8)

Max Grav 12=2069(LC 1), 2=2132(LC 1)

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

TOP CHORD 2-3=-1260/84, 3-4=-4145/488, 4-5=-3645/475, 5-30=-3568/484, 6-30=-3551/503,

6-31=-3706/563, 7-31=-3710/562, 7-8=-4493/655, 8-32=-4534/662, 9-32=-4534/662,

9-10=-4534/662, 10-33=-4288/581, 11-33=-4324/558, 11-34=-8278/924, 12-34=-8289/897 2-22=-398/3743, 21-22=-398/3743, 20-21=-398/3743, 19-20=-341/3284, 8-17=-448/157,

16-17=-398/3943, 15-16=-531/5140, 14-15=-531/5140, 13-14=-531/5140, 12-13=-803/7773

4-20=-531/213, 6-20=-43/412, 6-19=-136/859, 7-19=-1224/225, 17-19=-383/3573, WEBS

7-17=-142/1154, 10-17=-150/932, 10-16=-65/762, 11-16=-1372/266, 11-14=0/286,

11-13=-316/2847

NOTES-

BOT CHORD

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 14-6-5, Exterior(2R) 14-6-5 to 18-9-3, Interior(1) 18-9-3 to 31-5-11, Exterior(2R) 31-5-11 to 35-8-10, Interior(1) 35-8-10 to 46-0-0 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) All plates are MT20 plates unless otherwise indicated. 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 219 lb uplift at joint 12 and 242 lb uplift at ioint 2.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



July 2,2021

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

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



RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW Job Truss Truss Type Qty Summit/129 Manor **DEVELOPMENT SERVICES**5194 2851482 A04 Hip LEE'S SUMMIT. MISSOURI Job Reference (optional) | JOD REIGIEU (Opuona) 8.430 s Nov 18 2020 MiTek In ustries, Inc ID:tjnOHGeVPJTyi41JASwyTKzhfUX-I5p?NNbcvfdl K?xns2

Builders First Source, Valley Center, KS 67147

NOTES-

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

DEVELOPMENT SERVICES5195 LEE'S SUMMIT, MISSOURI

Job Reference (optional)

Summit/129 Manor

ustries In Thu Jul 1 15:34:21 20 00 VZ00 V(0) 200 u0sdaq3W

42-8-8

Builders First Source, Valley Center, KS 67147

Truss

A05

Job

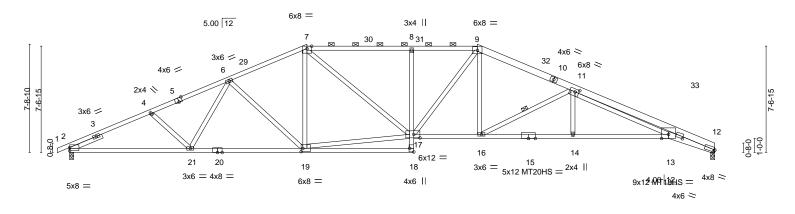
2851482

8.430 s Nov 18 2020 MiTek In ID:tjnOHGeVPJTyi41JASwyTKzhfUX-UCz9h8jVJ10kLhH -0<u>-10-8</u> 0-10-8 5-10-1 11-4-9 16-11-2 24-6-8 29-0-14 35-10-11 5-10-1 5-6-9 5-6-9 7-7-6 4-6-6 6-9-13

Truss Type

Hip

Scale = 1:82.1



Qty

	—	8-7-5 8-7-5	16-11-2 8-3-13	+	24-6 7-7-		29-0-14 4-6-6	-	35-10- ⁻ 6-9-1;		42-8-8 6-9-13	46-0-0 3-3-8
Plate Offset	s (X,Y)	[2:Edge,0-2-11], [5:0-3		-6,0-2-8], [1		-		0-5-4,0-				3-3-0
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL	i	n (loc)	l/defl	L/d	PLATES	GRIP
TCLL		Plate Grip DOL	1.15	TC	0.86	Vert(L) -0.5	2 16-17	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.95	Vert(CŤ) -0.9	7 13-14	>571	180	MT20HS	148/108
BCLL	0.0	Rep Stress Incr	YES	WB	0.74	Horz	CT) 0.4	3 12	n/a	n/a	MT18HS	197/144
BCDL	10.0	Code IRC2018	/TPI2014	Matı	ix-AS						Weight: 220 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

Sheathed, except

1 Row at midpt

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

Rigid ceiling directly applied.

LUMBER-

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

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

BOT CHORD 2x4 SPF No.2 *Except*

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

13-15: 2x4 SP 2400F 2.0E

WEBS 2x4 SPF No.2

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

REACTIONS.

(size) 2=0-3-8, 12=0-3-8 Max Horz 2=121(LC 16)

Max Uplift 2=-236(LC 12), 12=-219(LC 13) Max Grav 2=2132(LC 1), 12=2069(LC 1)

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

2-3=-1162/62, 3-4=-4140/482, 4-5=-3963/457, 5-6=-3920/473, 6-29=-3388/435, TOP CHORD

7-29=-3257/458, 7-30=-3798/522, 8-30=-3800/522, 8-31=-3801/519, 9-31=-3801/519,

9-32=-3842/501, 10-32=-3926/476, 10-11=-3964/473, 11-33=-8199/917, 12-33=-8204/885

BOT CHORD 2-21=-454/3734, 20-21=-333/3494, 19-20=-333/3494, 8-17=-516/175, 16-17=-279/3536,

15-16=-470/4888, 14-15=-470/4888, 13-14=-470/4888, 12-13=-780/7691

6-21=-36/330, 6-19=-603/212, 7-19=-54/334, 17-19=-266/2857, 7-17=-138/1087, $9-17 = -104/646, \ 9-16 = -91/820, \ 11-16 = -1504/309, \ 11-14 = 0/342, \ 11-13 = -375/3010$

NOTES-

WFBS

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 16-11-2, Exterior(2R) 16-11-2 to 21-2-0, Interior(1) 21-2-0 to 29-0-14, Exterior(2R) 29-0-14 to 33-3-13, Interior(1) 33-3-13 to 46-0-0 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) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 236 lb uplift at joint 2 and 219 lb uplift at
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 2,2021

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RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Summit/129 Manor 2851482 B01 Hip Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, I ic.

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

38-0-0

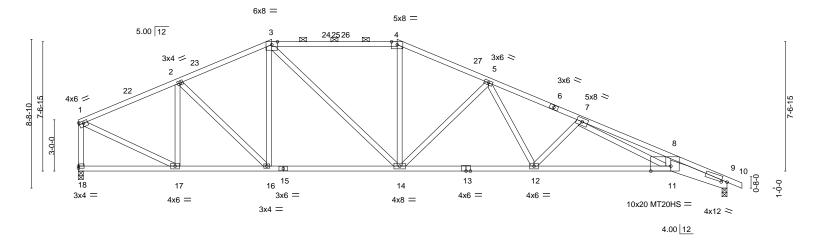
Structural wood sheathing directly applied, except end verticals, and

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

Rigid ceiling directly applied.

Builders FirstSource (Valley Center), Valley Center, KS - 67147, Thu ID:tjnOHGeVPJTyi41JASwyTKzhfUX-y4WU8odUqpgSkWk36SDe 29-4-6 38-0-0 18-8-2 . 24-0-4 5-9-11 5-6-3 7-4-3 5-4-2 5-4-2

Scale = 1:67.5



		5-9-11	5-6-3	7-4-3	8-0-3		3-0-3	3-3-8
Plate Off	sets (X,Y)	[1:0-3-0,0-1-8], [9:0-	3-15,0-1-2], [11:1-	2-2,Edge]				
LOADIN	G (psf)	SPACING-	2-0-0	CSI.	DEFL. in (loc)	I/defl L/d	PLATES	GRIP
TCLL	25.0	Plate Grip D0	L 1.15	TC 0.77	Vert(LL) -0.38 11-12	>999 240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0.86	Vert(CT) -0.76 11-12	>600 180	MT20HS	148/108
BCLL	0.0	Rep Stress Ir	cr YES	WB 0.89	Horz(CT) 0.23 9	n/a n/a		
BCDL	10.0	Code IRC20	18/TPI2014	Matrix-AS			Weight: 179 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

26-8-5

LUMBER-TOP CHORD

2x4 SPF No.2 *Except*

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

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

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

WEBS 2x4 SPF No.2

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

Max Horz 18=-159(LC 13)

Max Uplift 18=-190(LC 12), 9=-267(LC 13) Max Grav 18=1703(LC 1), 9=1765(LC 1)

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

TOP CHORD 1-2=-1852/261, 2-3=-2079/324, 3-4=-2239/383, 4-5=-2487/382, 5-7=-3694/545,

7-8=-6876/1015, 8-9=-7088/957, 1-18=-1642/226

BOT CHORD 16-17=-140/1644, 14-16=-94/1863, 12-14=-251/2911, 11-12=-469/3916, 9-11=-838/6570 **WEBS**

3-14=-157/652, 4-14=-11/472, 5-14=-937/243, 5-12=-121/918, 7-12=-851/237, 7-11=-414/2774, 8-11=0/357, 2-16=-38/434, 2-17=-675/136, 1-17=-197/1764

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-Č Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 11-3-14, Exterior(2R) 11-3-14 to 15-6-13, Interior(1) 15-6-13 to 18-8-2, Exterior(2R) 18-8-2 to 22-11-0, Interior(1) 22-11-0 to 38-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 190 lb uplift at joint 18 and 267 lb uplift at joint 9.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 2,2021

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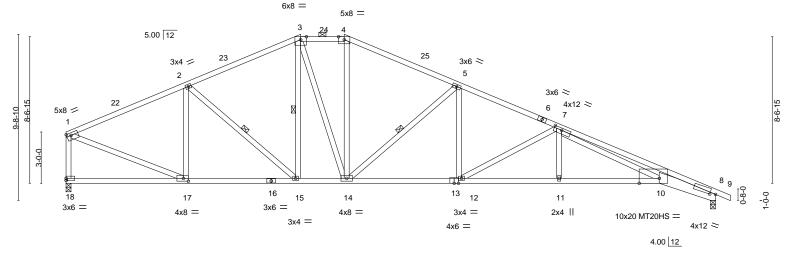


16023 Swingley Ridge Rd Chesterfield, MO 63017

RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Summit/129 Manor AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 2851482 B02 Hip LEE'S SUMMIT, MISSOURI

Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, I ic. Builders FirstSource (Valley Center), Valley Center, KS - 67147, Thu ID:tjnOHGeVPJTyi41JASwyTKzhfUX-QG4sL8e6b7oJygJFg9ktBsP 38-0-0 13-8-11 22-11-15 28-10-3 7-0-2 6-8-10 2-6-10 6-8-10 5-10-5

Scale = 1:67.4



		7-0-2	13-8-11	16-3-5	22-11-15	1 28-10-3		34-8-8	38-0-0
	1	7-0-2	6-8-10	2-6-10	6-8-10	5-10-5		5-10-5	3-3-8
Plate Offse	ts (X,Y)	[1:0-3-0,0-1-12], [7:0-5-	6,0-1-8], [8:0-3-	·15,0-1-2], [10:1-2-2,E	dge], [17:0-3-8,0-2-0]				
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 0.87	Vert(LL)	-0.38 10-11 >999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0.96	Vert(CT)	-0.71 10-11 >642	180	MT20HS	148/108
BCLL	0.0	Rep Stress Incr	YES	WB 0.90	Horz(CT)	0.24 8 n/a	n/a		
BCDL	10.0	Code IRC2018/7	ΓPI2014	Matrix-AS	'			Weight: 191 II	b FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

2x4 SPF 1650F 1.5E *Except*

BOT CHORD

8-10: 2x8 SP 2400F 2.0E, 13-16: 2x4 SPF No.2 WEBS 2x4 SPF No.2

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

Max Horz 18=-175(LC 13)

Max Uplift 18=-187(LC 12), 8=-264(LC 13) Max Grav 18=1703(LC 1), 8=1765(LC 1)

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

TOP CHORD $1\hbox{-}2\hbox{--}2004/271, 2\hbox{-}3\hbox{--}2039/325, 3\hbox{-}4\hbox{--}1918/341, 4\hbox{-}5\hbox{--}2173/339, 5\hbox{-}7\hbox{--}3107/449,}$

7-8=-6867/992, 1-18=-1635/225

BOT CHORD 15-17=-156/1774, 14-15=-67/1794, 12-14=-206/2794, 11-12=-425/3829, 10-11=-425/3831, 8-10=-834/6421

> 2-17=-543/139, 3-14=-144/566, 4-14=-55/460, 5-14=-1141/270, 5-12=-63/676, 7-12=-1180/250, 7-11=0/285, 1-17=-194/1831, 7-10=-432/2794

NOTES-

WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed: MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 13-8-11, Exterior(2E) 13-8-11 to 16-3-5, Exterior(2R) 16-3-5 to 20-6-3, Interior(1) 20-6-3 to 38-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 187 lb uplift at joint 18 and 264 lb uplift at joint 8.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied, except end verticals, and

2-15, 3-15, 5-14

2-0-0 oc purlins (3-11-7 max.): 3-4.

Rigid ceiling directly applied.

1 Row at midpt

July 2,2021



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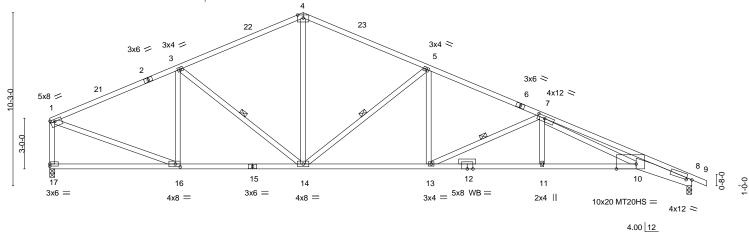
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Summit/129 Manor AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 2851482 B₀3 Roof Special 2 LEE'S SUMMIT, MISSOURI Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Jun 2 2021 MiTek Industries, Inc. Thu ID:tjnOHGeVPJTyi41JASwyTKzhfUX-uTeEYUfkLQxAZ uREtG(k4y) 28-1-11 29-1-12 1-0-1 34-8-8 38-0-0 22-5-2 0-10-5 7-6-14 7-5-2 6-6-13 5-8-9

5x8 = Scale = 1:68.2 5.00 12



	7-6-14	7-5-2		7-5-2	2-5-2	4-3-8	5-6-12	3-3-8
Plate Offsets	Y) [1:0-3-0,0-1-8], [7:0-5	2,0-1-12], [8:0-3-15,0-1-	-2], [10:1-2-2,Edge],	[16:0-3-8,0-2-0]				
LOADING (p	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl L/d	PLATES	GRIP
TCLL 25	Plate Grip DOL		TC 0.79	Vert(LL)	-0.35 10-11	>999 240	MT20	197/144
TCDL 10	Lumber DOL		BC 0.91	Vert(CT)	-0.65 10-11	>695 180	MT20HS	148/108
BCLL (Rep Stress Inc	YES	WB 0.63	Horz(CT)	0.23 8	n/a n/a		
BCDL 10	Code IRC2018	/TPI2014	Matrix-AS				Weight: 181	b FT = 20%
BCDL 10			Matrix-AS	- (- /			Wei	ght: 181 l

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

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

BOT CHORD 2x4 SPF No.2 *Except*

8-10: 2x8 SP 2400F 2.0E, 10-12: 2x4 SP 2400F 2.0E

WEBS 2x4 SPF No.2 2x4 SPF No.2 **OTHERS**

REACTIONS. (size) 17=0-3-8, 8=0-3-8

Max Horz 17=-184(LC 13)

Max Uplift 17=-185(LC 12), 8=-262(LC 13) Max Grav 17=1703(LC 1), 8=1765(LC 1)

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

TOP CHORD $1\hbox{-}3\hbox{--}2054/272, 3\hbox{-}4\hbox{--}2007/322, 1\hbox{--}17\hbox{--}1629/227, 4\hbox{--}5\hbox{--}2003/329, 5\hbox{--}7\hbox{--}-3042/431,}$

7-8=-6730/960

BOT CHORD 14-16=-164/1814, 13-14=-187/2726, 11-13=-434/3907, 10-11=-434/3910, 8-10=-806/6291 WFBS

3-16=-494/136, 3-14=-270/163, 4-14=-110/970, 1-16=-193/1840, 5-13=-51/667,

5-14=-1238/300, 7-11=0/314, 7-13=-1300/272, 7-10=-394/2574

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 15-0-0, Exterior(2R) 15-0-0 to 18-0-0 , Interior(1) 18-0-0 to 38-10-8 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) 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) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 185 lb uplift at joint 17 and 262 lb uplift at joint 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.
- 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.



Structural wood sheathing directly applied, except end verticals.

3-14, 5-14, 7-13

Rigid ceiling directly applied.

1 Row at midpt

July 2,2021





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

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RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Summit/129 Manor AS NOTED FOR PLAN REVIEW DEVELOPMENT SER PROPERTY SER PROPERTY DEVELOPMENT SER PROPERTY DEVELOPM 2851482 C01 **ROOF SPECIAL** LEE'S SUMMIT, MISSOURI Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, I ic. Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.43U s Jun 2 2021 MiTek Industries, I c. Thu 1150 49 8071 Page
ID:tjnOHGeVPJTyi41JASwyTKzhfUX-MfCcmqgM6k31BzTeoanLG H Q 97nc; R J 182z R
18-4-0 25-0-0 28-8 29-2-0
5-4-5 6-8-0 1-8-0 4-10-4 1-1-15 4x6 || Scale = 1:65.1

25-0-0

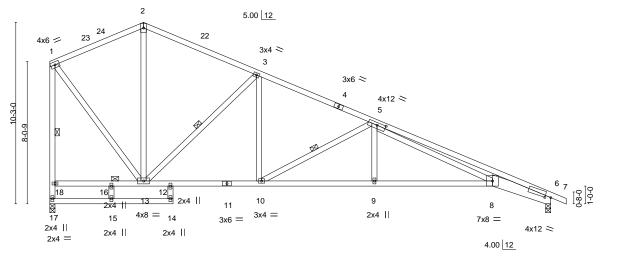
Rigid ceiling directly applied.

1 Row at midpt

1 Brace at Jt(s): 16

Structural wood sheathing directly applied, except end verticals.

1-17, 3-13, 5-10



	3-5-12 1-9-12 1-8-0	4-10-4 1-1-1:	5-4-5	6-8-0	3-3-8	
Plate Offsets (X,Y)	[5:0-5-14,0-1-12], [6:0-3-15,0-1-2]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) 1/	defl L/d	PLATES G	RIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.97	Vert(LL) -0.32 8-9 >9	999 240	MT20 19	97/144
TCDL 10.0	Lumber DOL 1.15	BC 0.94	Vert(CT) -0.62 8-9 >	542 180	I	
BCLL 0.0	Rep Stress Incr YES	WB 0.65	Horz(CT) -0.25 17	n/a n/a	I	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS	, ,		Weight: 150 lb	FT = 20%

BRACING-

WEBS

JOINTS

TOP CHORD

BOT CHORD

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD 4-7: 2x4 SPF 1650F 1.5E

BOT CHORD 2x4 SPF No.2 *Except* 6-8: 2x8 SP 2400F 2.0E

WEBS 2x4 SPF No.2

REACTIONS. (size) 6=0-3-8, 17=0-3-8

Max Horz 6=-318(LC 13)

Max Uplift 6=-189(LC 13), 17=-204(LC 13) Max Grav 6=1329(LC 1), 17=1266(LC 1)

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

<u>5-3-8</u> 5-3-8

TOP CHORD 2-3=-766/145, 3-5=-1646/257, 5-6=-4999/1053, 1-2=-735/156, 17-18=-1236/215,

5-3-8

6-11-8

11-9-12

1-18=-1221/220

6-8=-1213/4667, 12-13=-324/1447, 10-12=-326/1433, 9-10=-587/2445, 8-9=-587/2446 **BOT CHORD**

WEBS 1-13=-189/1007, 3-13=-1130/293, 3-10=-84/663, 5-10=-1152/297, 5-9=0/311,

5-8=-661/2378

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 5-3-8, Exterior(2R) 5-3-8 to 8-3-8, Interior(1) 8-3-8 to 29-2-0 zone; cantilever left and right exposed; end vertical 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) 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 189 lb uplift at joint 6 and 204 lb uplift at joint 17.
- 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.



July 2,2021



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

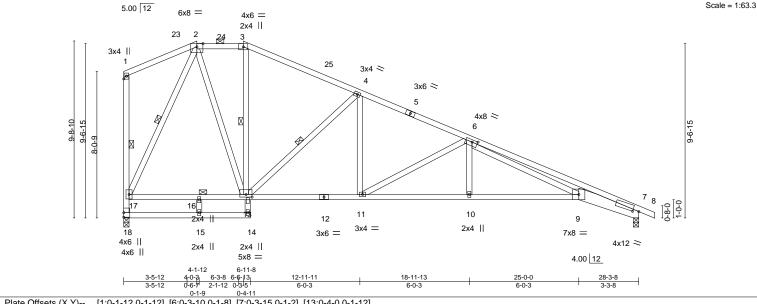
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AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



RELEASE FOR CONSTRUCTION Truss Truss Type Qty Summit/129 Manor AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICESO HIP C02 LEE'S SUMMIT, MISSOURI

Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, I ic. 8.430 s Jun 2 2021 MiTek Industries, Inc. Thu by 1156 49 3071 3074 ID:tjnOHGeVPJTyi41JASwyTKzhfUX-rrm_zAg_12Bu₂71qLllapl 1 FYOt_LydyJyzz R k Builders FirstSource (Valley Center), Valley Center, KS - 67147, 6-0-3 6-0-3



Tiate On	(e Oliseis (A, 1)=- [1.0-1-12,0-1-12], [0.0-0-10,0-1-0], [1.0-0-10,0-1-12]												
LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP									
TCLL	25.0	Plate Grip DOL 1.15	TC 0.87	Vert(LL) -0.30 9-10 >999 240 MT20 197/144									
TCDL	10.0	Lumber DOL 1.15	BC 0.96	Vert(CT) -0.57 9-10 >595 180									
BCLL	0.0	Rep Stress Incr YES	WB 0.89	Horz(CT) 0.21 7 n/a n/a									
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS	Weight: 156 lb FT = 20%									

BRACING-

TOP CHORD

BOT CHORD

WEBS

JOINTS

LUMBER-

Job

2851482

TOP CHORD 2x4 SPF No.2 *Except*

5-8: 2x4 SPF 1650F 1.5E **BOT CHORD** 2x4 SPF No.2 *Except*

7-9: 2x8 SP 2400F 2.0E 2x4 SPF No.2

WEBS

REACTIONS. (size) 18=0-3-8, 7=0-3-8 Max Horz 18=-305(LC 10)

Max Uplift 18=-163(LC 13), 7=-206(LC 13)

Max Grav 18=1311(LC 1), 7=1340(LC 1)

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

TOP CHORD $2 - 3 = -823/199,\ 3 - 4 = -978/190,\ 4 - 6 = -1828/278,\ 6 - 7 = -5010/745,\ 17 - 18 = -1289/165$ **BOT CHORD** 16-17=0/527, 13-16=0/527, 11-13=-43/1610, 10-11=-252/2577, 9-10=-252/2579,

7-9=-601/4679

WEBS 4-13=-1068/270, 4-11=-70/618, 6-11=-1101/238, 6-10=0/298, 2-17=-1213/191,

2-13=-156/994, 6-9=-366/2258

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-Č Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 4-0-3, Exterior(2E) 4-0-3 to 6-6-13, Exterior(2R) 6-6-13 to 10-9-11, Interior(1) 10-9-11 to 29-2-0 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
- 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) 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 163 lb uplift at joint 18 and 206 lb uplift at joint 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.



Structural wood sheathing directly applied, except end verticals, and

4-13, 1-18, 2-17, 3-13

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

10-0-0 oc bracing: 13-16

1 Row at midpt

1 Brace at Jt(s): 16

Rigid ceiling directly applied. Except:

July 2,2021



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



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Summit/129 Manor AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 2851482 C03 Hip LEE'S SUMMIT, MISSOURI Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Jun 2 2021 MiTek Industries, Inc. Thu 13021 399 1 FY 1819211 01 kv ID:tjnOHGeVPJTyi41JASwyTKzhfUX-nEtlOsiEPfRc2RBCTik2u 8-11-10 19-7-14

5-4-2

5-4-2

5.00 12 6x8 = Scale = 1:56.7 4x8 = 3x4 II 23 🖂 24 \bowtie 3x6 ≥ 25 3x6 > 4x8 > 8-6-15 6 8-0-9 2x4 II 13 10 12 11 4x12 = 3x6 = 3x6 = 10x20 MT20HS = 2x4 || 2x4 || 19 4x8 = 4x12 > 4.00 12 + 1-7-6 + 3-5-12 1-7-6 + 1-10-6 6-11-8 16-11-13 25-0-0 28-3-8 8-11-10 3-5-12 2-0-2 Plate Offsets (X,Y)--[8:0-3-15,0-1-2], [10:1-2-2,Edge], [14:0-4-8,0-2-0] **PLATES GRIP** LOADING (psf) SPACING-CSI. DEFL. in (loc) I/def L/d

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

WEBS

-0.30 10-11

-0.62 10-11

8

1 Row at midpt

0.21

>999

>541

n/a

240

180

n/a

2-0-0 oc purlins (3-11-15 max.): 2-3.

Rigid ceiling directly applied.

LUMBER-

TCLL

TCDL

BCLL

BCDL

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

8-10: 2x8 SP 2400F 2.0E

WEBS 2x4 SPF No.2

25.0

10.0

10.0

0.0

REACTIONS. (size) 8=0-3-8, 19=0-3-8 Max Horz 19=-291(LC 13)

Max Uplift 8=-181(LC 13), 19=-172(LC 9)

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

Max Grav 8=1329(LC 1), 19=1266(LC 1)

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

5-4-2

2-0-2

TOP CHORD $2\text{-}3\text{--}1104/149,\ 3\text{-}4\text{--}1253/131,\ 4\text{-}6\text{--}2374/287,\ 6\text{-}7\text{--}5016/643,\ 7\text{-}8\text{--}5127/563,}$

1.15

1.15

YES

TC

ВС

WB

Matrix-AS

1.00

0.90

0.85

14-19=-1266/196

BOT CHORD 13-14=-26/367, 11-13=-18/1739, 10-11=-216/2630, 8-10=-475/4761

WEBS 4-13=-899/250, 4-11=-112/823, 6-11=-748/213, 6-10=-307/2267, 2-14=-1292/315,

2-13=-181/1158

- 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 1-7-6, Exterior(2R) 1-7-6 to 5-10-5, Interior(1) 5-10-5 to 8-11-10, Exterior(2R) 8-11-10 to 13-2-8, Interior(1) 13-2-8 to 29-2-0 zone; cantilever left and right exposed; end vertical 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 MT20 plates unless otherwise indicated
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Bearing at joint(s) 8, 19 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 181 lb uplift at joint 8 and 172 lb uplift at ioint 19. 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1. 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



197/144

148/108

FT = 20%

MT20

Structural wood sheathing directly applied, except end verticals, and

1-19, 2-14

MT20HS

Weight: 148 lb

July 2,2021



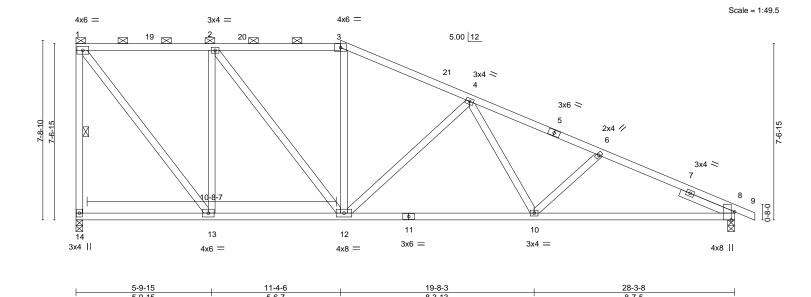
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ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Summit/129 Manor AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 2851482 C04 HALF HIP LEE'S SUMMIT, MISSOURI Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, I ic. Builders FirstSource (Valley Center), Valley Center, KS - 67147, Thu ID:tjnOHGeVPJTyi41JASwyTKzhfUX-nEtlOsiEPfRc2RBCTiKtwy74bM9Cp 16-10-15 5-9-15 5-6-7 5-6-9 5-6-9



DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

WEBS

in (loc)

0.06

-0.12 10-12

-0.27 10-12

8

1 Row at midpt

I/defl

>999

>999

n/a

L/d

240

180

n/a

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

Rigid ceiling directly applied.

LUMBER-

TCLL

TCDL

BCLL

BCDL

Plate Offsets (X,Y)--

25.0

10.0

10.0

0.0

LOADING (psf)

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

WEBS 2x4 SPF No.2

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

REACTIONS. (size) 14=0-3-8, 8=0-3-8 Max Horz 14=-287(LC 10)

[8:0-4-3,Edge]

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

Max Uplift 14=-202(LC 8), 8=-192(LC 13) Max Grav 14=1266(LC 1), 8=1329(LC 1)

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

TOP CHORD $1 - 14 = -1209/214, \ 1 - 2 = -824/200, \ 2 - 3 = -1201/236, \ 3 - 4 = -1375/234, \ 4 - 6 = -2123/309,$ 6-8=-2335/345

2-0-0

1.15

1.15

YES

CSI.

TC

ВС

WB

Matrix-AS

0.44

0.69

0.87

BOT CHORD 13-14=-172/276, 12-13=0/824, 10-12=-114/1709, 8-10=-245/2104

WEBS 4-12=-698/217, 4-10=-40/432, 6-10=-284/155, 2-13=-931/223, 1-13=-207/1315,

2-12=-125/610

- 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 11-4-6, Exterior(2R) 11-4-6 to 15-7-5 , Interior(1) 15-7-5 to 29-2-0 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
- 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 202 lb uplift at joint 14 and 192 lb uplift
- 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.



PLATES

Weight: 133 lb

MT20

Structural wood sheathing directly applied, except end verticals, and

GRIP

197/144

FT = 20%

July 2,2021





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 systems, see

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



Job Truss Truss Type Qty Summit/129 Manor 2851482 C05 Half Hip Job Reference (optional)

5-9-14

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

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

5-9-14

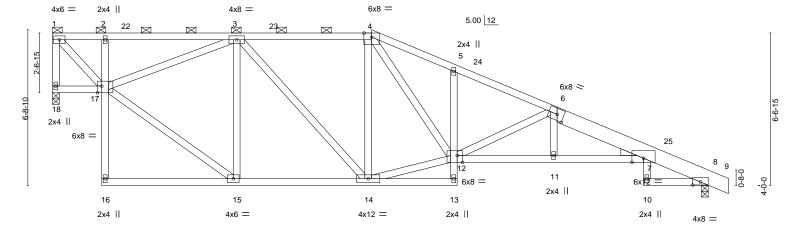
8.430 s Jun 2 2021 MiTek Industries, Inc. Thu ID:tjnOHGeVPJTyi41JASwyTKzhfUX-FQR7cCjtAzZTgbmP1QrHR7B 23-3-5 24-4 8 25-6-0 17-5-8 21-5-12 3-8-5 4-0-4 1-9-9 1-1-3

Structural wood sheathing directly applied, except end verticals, and

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

Rigid ceiling directly applied.

Scale = 1:49.7



1	2-1-8	7-11-6	13-9-3	17-5-8	21-5-12	_ı 25-6-0 _ı	28-3-8
Г	2-1-8	5-9-14	5-9-14	3-8-5	4-0-4	4-0-4	2-9-8
Plate Offse	ets (X,Y)	[6:0-3-8,0-3-0], [8:0-4-0,0-1-9], [2:0-2-12,Edge], [17:0-2-4,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 0.66	Vert(LL) -0.2	6 7-11 >999 24	0 MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.83	Vert(CT) -0.4	7 7-11 >721 18	0	
BCLL	0.0	Rep Stress Incr YES	WB 0.49	Horz(CT) 0.1	5 8 n/a n/	'a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS			Weight: 15	8 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD

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

7-12: 2x4 SPF 1650F 1.5E

WEBS 2x4 SPF No.2

WEDGE

Right: 2x4 SP No.3

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

Max Horz 18=-195(LC 13)

Max Uplift 18=-182(LC 9), 8=-203(LC 13) Max Grav 18=1266(LC 1), 8=1329(LC 1)

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

TOP CHORD 1-18=-1200/186, 1-2=-1090/183, 2-3=-1125/197, 3-4=-1422/274, 4-5=-2335/401,

5-6=-2410/345, 6-7=-3210/442, 7-8=-485/105

BOT CHORD 2-17=-279/105, 14-15=-100/1180, 11-12=-344/3147, 7-11=-350/3157 WEBS

1-17=-231/1565, 15-17=-125/1421, 3-15=-696/125, 3-14=-65/358, 4-14=-530/96,

12-14=-86/1353, 4-12=-214/1271, 6-12=-1086/207

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) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 13-9-3, Exterior(2R) 13-9-3 to 18-0-2 , Interior(1) 18-0-2 to 29-2-0 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
- 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 182 lb uplift at joint 18 and 203 lb uplift at ioint 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.



July 2,2021



Job Truss Truss Type Qty Summit/129 Manor 2851482 C06 Half Hip

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

Structural wood sheathing directly applied, except end verticals, and

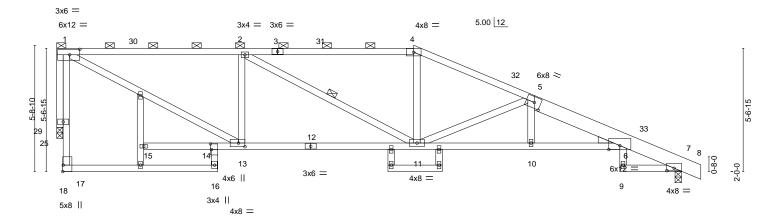
2-0-0 oc purlins (2-2-0 max.): 1-4.

Rigid ceiling directly applied.

1 Row at midpt

Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, I Valley Center, KS - 67147, Thu nc. ID:tjnOHGeVPJTyi41JASwyTKzhfUX-BpZt0tk7iapAv wn8rullVY 16-2-0 17-5-8 1-2-0 1-3-8 11-8-12 21-5-12 25-6 1-1-0 3-4-4 3-3-4 4-0-4

Scale = 1:52.2



	0 ₇ 3 ₇ 4	3-9-8		4-8	15-0-0		0 17-5-8		21-5-12		25-6-0	28-3-8
	0-'3-'4	3-6-4	3-6-0 '1-	1-0 '	6-7-8	1-2-	0 1-3-8	1	4-0-4	'	4-0-4	2-9-8
Plate Offs	ets (X,Y)	[1:0-5-8,0-3-0], [5:0-3-	-8,0-3-0], [7:0-4	0,0-1-5], [13:0	-3-8,0-2-0], [1	14:0-3-0,0-0-8], [1	7:Edge,0)-0-4]				
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	0.86	Vert(LL)	-0.35	15	>963	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.69	15	>486	180		
BCLL	0.0	Rep Stress Inc	r YES	WB	0.60	Horz(CT)	0.25	7	n/a	n/a		
BCDL	10.0	Code IRC2018	3/TPI2014	Matri	x-AS						Weight: 145	lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD

Builders FirstSource (Valley Center),

5-8: 2x8 SP 2400F 2.0E **BOT CHORD** 2x4 SPF No.2 *Except*

6-12: 2x4 SPF 1650F 1.5E WEBS 2x4 SPF No.2

OTHERS 2x4 SPF No.2

WEDGE

Right: 2x4 SP No.3

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

Max Horz 29=-166(LC 13)

Max Uplift 7=-162(LC 13), 29=-178(LC 9)

Max Grav 7=1341(LC 1), 29=1294(LC 1)

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

TOP CHORD 1-2=-1908/289, 2-4=-2105/296, 4-5=-2356/298, 5-6=-3214/340, 6-7=-490/92

BOT CHORD 11-13=-154/1908, 10-11=-259/3145, 6-10=-264/3156

4-11=0/476, 5-11=-1106/241, 2-13=-735/218, 1-13=-257/2011, 1-29=-1302/179 WEBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-4 to 3-5-4, Interior(1) 3-5-4 to 16-2-0, Exterior(2R) 16-2-0 to 20-4-15, Interior(1) 20-4-15 to 29-2-0 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
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Bearing at joint(s) 29 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 162 lb uplift at joint 7 and 178 lb uplift at joint 29.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 2,2021



Job Truss Truss Type Qty Summit/129 Manor 2851482 C07 Half Hip Job Reference (optional)
8.430 s Jun 2 2021 MiTek Industries, I ic. Thu

12-9-6

5-5-14

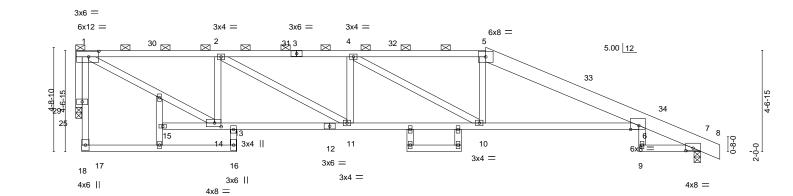
Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

ID:tjnOHGeVPJTyi41JASwyTKzhfUX-f?7GEDllTux1X21_iYP_2HgK_RyI76m3y

Scale = 1:52.2



2-2-10

18-6-13 1-1-5

17-5-8

2-5-8

0 ₇ 3 <u>74</u> 0-3-4	3-9-8 6-5-3 7-3-8 3-6-4 2-7-11 0-10-5	12-9-6 5-5-14	15-0-0 2-2-10 17-5-8 2-5-8	18-6-13 1-1-5	25-6-0 6-11-3	28-3-8 2-9-8
Plate Offsets (X,Y)	[1:0-5-8,0-3-0], [6:0-4-8,Edge], [7:0-4-0,	0-1-5], [14:0-3-8,0-2-0]				
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 0.71 BC 0.99 WB 0.52 Matrix-AS	DEFL. ii Vert(LL) -0.38 Vert(CT) -0.74 Horz(CT) 0.32	6-10 >456	240 M 180 n/a	LATES GRIP IT20 197/144 /eight: 141 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD

Builders FirstSource (Valley Center),

5-8: 2x8 SP 2400F 2.0E

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

OTHERS 2x4 SPF No.2

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

Max Horz 29=-134(LC 8)

Max Uplift 7=-215(LC 13), 29=-189(LC 9) Max Grav 7=1338(LC 1), 29=1283(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-1999/332, 2-4=-2776/437, 4-5=-2599/419, 5-6=-2737/393, 6-7=-488/110 **BOT CHORD** 13-14=-266/1862, 11-13=-225/1999, 10-11=-327/2776, 6-10=-262/2593 **WEBS** 5-10=0/297, 4-11=-307/159, 2-14=-877/207, 1-14=-304/2123, 2-11=-186/887,

1-29=-1297/192

- 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) 0-5-4 to 3-5-4, Interior(1) 3-5-4 to 18-6-13, Exterior(2R) 18-6-13 to 22-9-11 Interior(1) 22-9-11 to 29-2-0 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
- Provide adequate drainage to prevent water ponding.
- 3) All plates are 2x4 MT20 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) Bearing at joint(s) 29 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 215 lb uplift at joint 7 and 189 lb uplift at joint 29.
- 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

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

10-0-0 oc bracing: 10-11

Rigid ceiling directly applied. Except:

July 2,2021



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 chorembers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Summit/129 Manor 2851482 C08 Half Hip 1

6-8-5

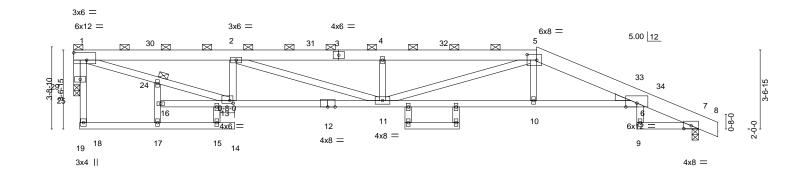
Valley Center, KS - 67147,

7-3-8 0-1-0

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

Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, I ic. 8.430 s Jun 2 2021 MiTek Industries, I ic. Thu 19 441150:55 2021 Page / ID:tjnOHGeVPJTyi41JASwyTKzhfUX-7BheRZmNEB3u9C4A GWDb ggdt pgUV / V 18 4 R 20 R 10 15-0-0 17-5-8 2-5-8 20-11-10 3-6-2

Scale = 1:52.2



	0 ₁ 3 ₁ 4	3-9-8 _I 6-	-7-8 7-2-8 ₁	13-11-13	₁ 15-0-0 ₁	17-5-8	20-11-10	1	25-6-0	28-3-8 _I
	0 3 4	3-6-4 2-	10-0 0-7-0	6-8-5	1-0-3	2-5-8	3-6-2	1	4-6-6	2-9-8
			0-1-0							
Plate Offse	ets (X,Y)	[1:Edge,0-4-0], [5:0-5-4	4,0-3-0], [7:0-4-0),0-1-9], [13:0-1-12,0-1-8]						
LOADING	(f)	OD A OIN O	0.00	001	DEEL	:- /1:	> 1/-1-41	1.74	DI ATEO	ODID
LOADING	(pst)	SPACING-	2-0-0	CSI.	DEFL.	in (lo	oc) l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC 0.67	Vert(LL)	-0.37	11 >903	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0.85	Vert(CT)	-0.68 11-	13 >496	180		
BCLL	0.0	Rep Stress Incr	YES	WB 0.90	Horz(CT)	0.28	7 n/a	n/a		
BCDL	10.0	Code IRC2018/	/TPI2014	Matrix-AS					Weight: 145	5 lb FT = 20%

LUMBER-BRACING-

7-3-8

2x6 SPF No.2 *Except* TOP CHORD TOP CHORD

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

6-12: 2x4 SPF 1650F 1.5E 10-0-0 oc bracing: 10-11 WEBS 2x4 SPF No.2 **JOINTS** 1 Brace at Jt(s): 24, 1

2x4 SPF No.2 **OTHERS**

Builders FirstSource (Valley Center),

WEDGE Right: 2x4 SP No.3

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

Max Horz 29=-122(LC 13)

Max Uplift 7=-216(LC 13), 29=-210(LC 9) Max Grav 7=1330(LC 1), 29=1244(LC 1)

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

TOP CHORD 1-2=-3139/571, 2-4=-4132/709, 4-5=-4132/709, 5-6=-3373/513, 6-7=-485/110 BOT CHORD 13-16=-26/258, 11-13=-482/3139, 10-11=-423/3297, 6-10=-429/3303

WEBS 4-11=-446/168, 5-11=-207/875, 2-13=-833/218, 1-24=-513/3151, 13-24=-503/3006,

2-11=-252/1044, 1-29=-1284/220

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) 0-5-4 to 3-5-4, Interior(1) 3-5-4 to 20-11-10, Exterior(2R) 20-11-10 to 25-2-8, Interior(1) 25-2-8 to 29-2-0 zone; cantilever left and right exposed; end vertical 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Bearing at joint(s) 29 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 216 lb uplift at joint 7 and 210 lb uplift at ioint 29.
- 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

July 2,2021



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 chorembers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



Job Truss Truss Type Qty Ply Summit/129 Manor 2851482 C09 HALF HIP GIRDER 2 Job Reference (optional)

5-3-14

Valley Center, KS - 67147,

3-4-0

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

8.430 s Jun 2 2021 MiTek Industries, Thu nc. ID:tjnOHGeVPJTyi41JASwyTKzhfUX-4aoOsFndmpJcOWEZI hyhgOvB3/ 17-5-8 17₁-9-0 20-5-13 5-6-0

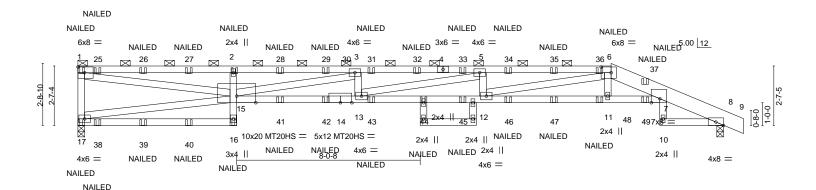
2-10-9

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

except end verticals, and 2-0-0 oc purlins (4-4-7 max.): 1-6.

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

Scale = 1:50.5



2-8-10

2-5-8

0-3-8

2-8-13

	3-7	′-8 ₁ 6-11-8		12-3-6	1	15-0-0 ₁ 2	17-5-8 2	17-9-0 2	0-5-13	23-4-6		25-6-0	28-3-8
	3-7	7-8 3-4-0		5-3-14	1 2	2-8-10	2-5-8	0-3-8	2-8-13	2-10-9	- 1	2-1-10	2-9-8
Plate Offset	ts (X,Y)	[6:0-5-4,0-3-0], [7:0-4-8,E	dge], [8:Edge	0-1-13]									
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.		in (loc)	I/defI	L/d		PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC 0.74		Vert(LL)	-0.6	5 12-13	>523	240		MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0.92		Vert(CT) -1.1	8 12-13	>287	180		MT20HS	148/108
BCLL	0.0	Rep Stress Incr	NO	WB 0.79		Horz(CT	0.3	8 8	n/a	n/a			
BCDL	10.0	Code IRC2018/TF	PI2014	Matrix-MS								Weight: 251	lb FT = 20%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

BOT CHORD 2x4 SPF No.2 *Except*

14-15,7-14: 2x4 SPF 1650F 1.5E

WEBS 2x4 SPF No.2

Builders FirstSource (Valley Center),

REACTIONS. (size) 17=0-3-8, 8=0-3-8

Max Horz 17=-95(LC 6)

Max Uplift 17=-459(LC 4), 8=-422(LC 9) Max Grav 17=1892(LC 1), 8=1779(LC 1)

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

TOP CHORD 1-17=-1660/496, 1-2=-6486/1671, 2-3=-6971/1755, 3-5=-9243/2350, 5-6=-8841/2243,

6-7=-5582/1373, 7-8=-670/196

BOT CHORD 16-17=-107/655, 2-15=-571/248, 13-15=-2280/9243, 12-13=-2173/8841,

11-12=-1337/5679, 7-11=-1352/5735

15-17=-517/150, 1-15=-1651/6465, 3-15=-2336/649, 5-13=-151/413, 6-11=-262/77, WFBS

5-12=-559/209, 6-12=-859/3247

NOTES-

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

Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc, 2x8 - 2 rows staggered at 0-9-0 oc.

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

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

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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.
- 5) All plates are MT20 plates unless otherwise indicated
- 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 459 lb uplift at joint 17 and 422 lb uplift at joint 8.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

LOAD CASE(S) Standard

Continued on page 2

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

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

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



POLITICO NAL

16023 Swingley Ridge Rd Chesterfield, MO 63017

OF MISS

SCOTT M.

SEVIER

NUMBER

PE-2001018807

July 2,2021

Job Truss Truss Type Qty Ply Summit/129 Manor HALF HIP GIRDER 2851482 C09

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

Job Reference (optional)
8.430 s Jun 2 2021 MiTek Industries, Inc. Thu

8.430 s Jun 2 2021 MiTek Industries, Inc. Thu by 11/50:59 3021 Page 2
ID:tjnOHGeVPJTyi41JASwyTKzhfUX-4aoOsFndmpJcOWEZI hyhgo BJA KyQb COFINHYZORJB

LOAD CASE(S) Standard

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

Vert: 1-6=-70, 6-9=-70, 16-17=-20, 7-15=-20, 10-22=-20

Concentrated Loads (lb)

Vert: 17=-34(B) 1=-74(B) 16=-26(B) 2=-46(B) 25=-56(B) 26=-46(B) 27=-46(B) 28=-21(B) 29=-21(B) 31=-21(B) 32=-21(B) 33=-44(B) 34=-17(B) 35=-17(B) 36=-17(B) 37=-38(B) 38=-29(B) 39=-26(B) 40=-26(B) 41=-47(B) 42=-47(B) 43=-47(B) 44=-47(B) 45=-24(B) 46=-51(B) 47=-51(B) 48=-51(B) 49=-85(B)

Job Truss Truss Type Qty Summit/129 Manor 2851482 D01 **GABLE**

Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SER PROPERTY NEWSFELDER LEE'S SUMMIT, MISSOURI

Scale: 1/4"=1

Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Thu

ID:tjnOHGeVPJTyi41JASwyTKzhfUX-0zw9HxpuIQZKdpNxV5?9 p?hA_NQVbVPhOzKz\Rk9

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

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

except end verticals.

-0-10-8 0-10-8 14-1-12 5-10-4

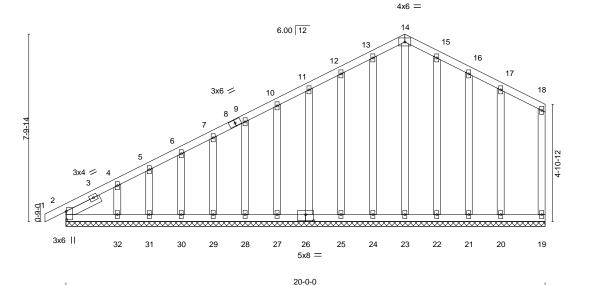


Plate Offsets (X,Y)	[2:0-4-1,0-0-5], [26:0-4-0,0-3-0]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.12	Vert(LL) -0.00 1 n/r 120	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.06	Vert(CT) 0.00 1 n/r 120	
BCLL 0.0	Rep Stress Incr YES	WB 0.12	Horz(CT) -0.00 19 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S		Weight: 126 lb FT = 20%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

Builders FirstSource (Valley Center),

2x4 SPF No.2 **OTHERS**

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

REACTIONS. All bearings 20-0-0.

Max Horz 2=207(LC 9) (lb) -

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

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph, TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-1-12, Exterior(2N) 2-1-12 to 14-1-12, Corner(3R) 14-1-12 to 17-1-12, Exterior(2N) 17-1-12 to 19-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 1-4-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 2, 26, 23, 24, 25, 27, 28, 29, 30, 31, 32, 22, 21, 20,
- 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.



July 2,2021



Job Truss Truss Type Qty Summit/129 Manor 2851482 D02 **COMMON GIRDER** Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, I ic. Builders FirstSource (Valley Center),

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SER PROPERTY DEVELOPMENT SER PROPERTY NEW PRO LEE'S SUMMIT. MISSOURI

Scale = 1:45.3

B.430 s Jun 2 2021 MiTek Industries, Inc. Thu by 1540 2021 Repair in the state of t

Valley Center, KS - 67147, . 14-1-12 6-11-2 5-10-4

4 6.00 12 4x6 < 5 3x4 / 3 0-6-0 Ø 8 9 7 3x6 =4x6 || 2x4 || 4x8 = 2x4 || 7-2-10 5-10-4 6-11-2 Plate Offsets (X,Y)--[5:Edge,0-1-12] SPACING-DEFL. L/d **PLATES** 2-0-0 CSI. (loc) I/def GRIP Plate Grip DOL 1.15 TC 0.53 Vert(LL) -0.04 7-9 >999 240 MT20 197/144 Lumber DOL 1.15 ВС 0.44 Vert(CT) -0.10 7-9 >999 180

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.03

6

n/a

Rigid ceiling directly applied.

n/a

4x8 =

LUMBER-

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

25.0

10.0

10.0

0.0

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

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

REACTIONS. (size) 1=0-3-8, 6=0-3-8 Max Horz 1=202(LC 11)

Max Uplift 1=-124(LC 12), 6=-108(LC 12) Max Grav 1=893(LC 1), 6=893(LC 1)

Rep Stress Incr

Code IRC2018/TPI2014

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

1-3=-1260/259, 3-4=-693/211, 4-5=-660/205, 5-6=-842/212 TOP CHORD

BOT CHORD 1-9=-336/1103. 7-9=-336/1103 **WEBS** 3-9=0/279, 3-7=-697/224, 5-7=-140/635

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 14-1-12, Exterior(2R) 14-1-12 to 17-1-12 , Interior(1) 17-1-12 to 19-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

WB

Matrix-AS

0.78

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

NO

- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=124, 6=108.
- 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.



July 2,2021

FT = 20%

Weight: 86 lb

Structural wood sheathing directly applied, except end verticals.





RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Summit/129 Manor AS NOTED FOR PLAN REVIEW DEVELOPMENT SER PRESESO 2 2851482 D03 Common LEE'S SUMMIT. MISSOURI Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-QYcHvyrmaLyvUH6 VAEYsNR J68BFLdpTxx32422 R 6

6-10-6

5-10-4

Scale = 1:45.6

5x8 = 6.00 12 2x4 \\ 7-9-14 4-10-12 4x6 / 0-9-12 8 7 4x8 = 3x4 = 3x6 = 4x8 || 19-10-8 Plate Offsets (X,Y)--[1:0-3-8,Edge] SPACING-**PLATES** GRIP CSI. in (loc) I/defl L/d Plate Grip DOL 1.15 TC 0.47 Vert(LL) -0.20 6-8 >999 240 197/144 MT20 Lumber DOL 1.15 ВС 0.74 Vert(CT) -0.40 6-8 >597 180 Rep Stress Incr YES WB 0.30 Horz(CT) 0.02 6 n/a

BRACING-

WEBS

TOP CHORD

BOT CHORD

n/a

Rigid ceiling directly applied.

1 Row at midpt

LUMBER-

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

25.0

10.0

10.0

0.0

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

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

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

Max Horz 1=201(LC 11)

Max Uplift 1=-123(LC 12), 6=-107(LC 12) Max Grav 1=888(LC 1), 6=888(LC 1)

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

Code IRC2018/TPI2014

TOP CHORD 1-3=-1207/267, 3-4=-1012/273 **BOT CHORD** 1-8=-340/1059. 6-8=-171/492

WEBS 3-8=-461/227, 4-8=-117/668, 4-6=-747/213

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0. Interior(1) 3-0-0 to 14-0-4, Exterior(2R) 14-0-4 to 17-0-4, Interior(1) 17-0-4 to 19-8-12 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

Matrix-AS

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

7-1-14

- 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) except (jt=lb) 1=123, 6=107.
- 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.



FT = 20%

Weight: 83 lb

Structural wood sheathing directly applied, except end verticals.



Job Truss Truss Type Qty Ply Summit/129 Manor 2851482 D04 Roof Special Girder 2

Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES1

LEE'S SUMMIT, MISSOURI

Job Reference (optional)

8.430 s Jun 2 2021 MiTek Industries, I c. Thu ID:tjnOHGeVPJTyi41JASwyTKzhfUX-ukAf7lsOLf4m6Rnikx35w9LGbZPM9

-0-10-8 0-10-8 10-3-8 18-5-14 4-10-0 3-2-12 2-2-12 2-6-8 5-7-14 5-7-14

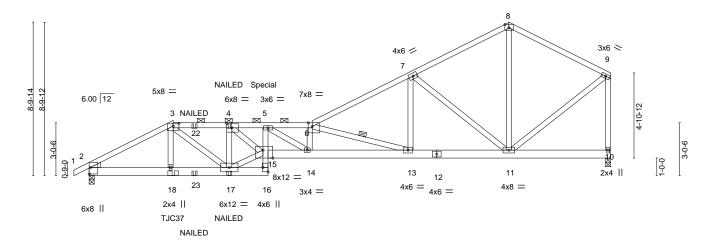
> 4x6 = Scale = 1:66.3

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

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

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

1 Row at midpt



		4-10-0	3-2-12	2-2-12	2-6-8	5-7-14	-		7-14		5-10-4	
Plate Offs	sets (X,Y)	[2:Edge,0-0-13], [3:0-4-0					[15:0-6-			dge,0-3-8]		
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	0.76	Vert(LL)	-0.36	14	>992	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.65	14	>553	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.72	Horz(CT)	0.12	10	n/a	n/a		
BCDL	10.0	Code IRC2018/Ti	PI2014	Matri	x-MS						Weight: 309 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SPF No.2

Builders FirstSource (Valley Center),

BOT CHORD 2x6 SPF No.2 *Except*

5-16: 2x4 SPF No.2, 12-15: 2x6 SPF 2100F 1.8E

4-10-0

2x4 SPF No.2 WEBS

WEDGE

Left: 2x4 SPF No.2

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

Max Horz 2=226(LC 5)

Max Uplift 2=-470(LC 8), 10=-260(LC 8) Max Grav 2=2681(LC 1), 10=1844(LC 1)

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

TOP CHORD $2-3=-4664/820,\ 3-4=-6275/1058,\ 4-5=-10841/1767,\ 5-6=-10450/1671,\ 6-7=-3865/612,$

7-8=-1486/269, 8-9=-1471/286, 9-10=-1784/282

BOT CHORD 2-18=-828/4114, 17-18=-827/4111, 16-17=-163/955, 5-15=-826/73, 14-15=-1877/11087,

Q_0_12

13-14=-1740/10426, 11-13=-554/3396

15-17=-1069/5897, 4-15=-907/5838, 5-14=-976/425, 7-13=-333/2395, 7-11=-2776/543, WEBS

8-11=-150/916, 9-11=-220/1556, 6-14=-248/451, 6-13=-7339/1238, 4-17=-4182/715,

3-17=-392/2819

NOTES-

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

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

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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.
- 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) except (jt=lb) 2=470, 10=260.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Use Simpson Strong-Tie TJC37 (6 nail, 30-90) or equivalent at 4-10-0 from the left end to connect truss(es) to front face of bottom Continued oskpaged 29.8 deg. to the left, sloping 0.0 deg. down.



July 2,2021

👠 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 systems, see

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



Job Truss Truss Type Qty Ply Summit/129 Manor 2851482 D04 Roof Special Girder

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES1

LEE'S SUMMIT. MISSOURI

LEE'S SUMMIT, MISSOUR
8.430 s Jun 2 2021 MiTek Industries, I Ic. Thu by 11/5/10/2021 Page 2
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Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

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

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

13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1139 lb down and 152 lb up at 10-0-12 on top 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, 3-6=-70, 6-8=-70, 8-9=-70, 16-19=-20, 10-15=-20

Concentrated Loads (lb)

Vert: 5=-1075(F) 18=-374(F) 4=-84(F) 17=-80(F) 22=-84(F) 23=-80(F)



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Summit/129 Manor 2851482 D05 Roof Special

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

Structural wood sheathing directly applied, except end verticals, and

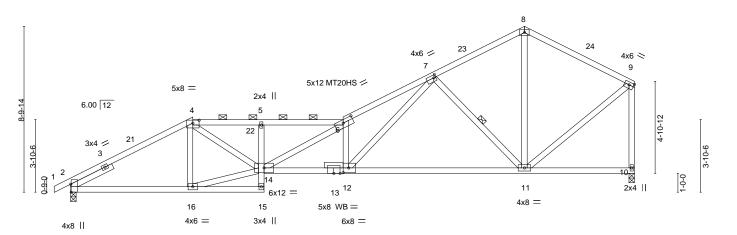
2-0-0 oc purlins (2-9-10 max.): 4-6.

Rigid ceiling directly applied.

1 Row at midpt

6-6-0 3-9-8 4-2-8 4-9-14 4-9-14

> Scale = 1:61.3 4x6 =



		6-6-0	10-3-8	14-6-0	24-1-12	1	30-0-0	
		6-6-0	3-9-8	4-2-8	9-7-12		5-10-4	
Plate Off	sets (X,Y)	[2:0-5-1,Edge], [4:0-4-0,0-1-	15], [6:0-6-8,0-2-0]	, [7:0-1-4,0-1-12], [9:Edge,0-1-12], [12:0-3-8,0-3-0]			
LOADIN	G (psf)	SPACING-	2-0-0	CSI.	DEFL. in (loc) I/de	efl L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC 0.54	Vert(LL) -0.29 12-14 >99	99 240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0.96	Vert(CT) -0.60 11-12 >59	99 180	MT20HS	148/108
BCLL	0.0	Rep Stress Incr	YES	WB 0.71	Horz(CT) 0.12 10 n	n/a n/a		
BCDL	10.0	Code IRC2018/TPI2	014	Matrix-AS			Weight: 138 lb	FT = 20%

TOP CHORD

BOT CHORD

WEBS

LUMBER-BRACING-2x4 SPF No.2

Valley Center, KS - 67147,

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

TOP CHORD

Builders FirstSource (Valley Center),

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

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

Max Horz 2=227(LC 9)

Max Uplift 2=-230(LC 12), 10=-182(LC 12) Max Grav 2=1406(LC 1), 10=1343(LC 1)

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

TOP CHORD $2\text{-}4\text{--}2179/363,\ 4\text{-}5\text{--}3453/613,\ 5\text{-}6\text{--}3516/629,\ 6\text{-}7\text{--}4279/728,\ 7\text{-}8\text{--}1040/222,\ 7\text{--}1040/222,\ 7\text{--}1$

8-9=-1048/215, 9-10=-1304/211

2-16=-398/1885, 5-14=-393/121, 12-14=-656/3856, 11-12=-327/1803 **BOT CHORD**

WEBS 4-16=-400/137, 14-16=-390/1740, 4-14=-305/1909, 6-14=-400/7, 6-12=-1958/431,

7-12=-486/2879, 7-11=-1371/345, 8-11=-96/554, 9-11=-147/1079

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-6-0, Exterior(2R) 6-6-0 to 9-6-0, Interior(1) 9-6-0 to 24-1-12, Exterior(2R) 24-1-12 to 27-1-12, Interior(1) 27-1-12 to 29-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=230, 10=182.
- 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.



July 2,2021





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ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty Summit/129 Manor 2851482 D06 Roof Special

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SER PROPERTY LEE'S SUMMIT, MISSOURI

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

3-11-4

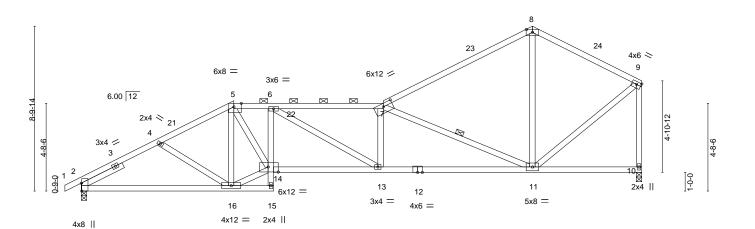
2-1-8

4-2-12

| Job Reference (optional) | LEE'S SUMMIT, MIS | 8.430 s Jun 2 2021 MiTek Industries, I ic. Thu rel +1151003021-8 | ID:tjnOHGeVPJTyi41JASwyTKzhfUX-r6HQY_tftGKTL kr5rM5224EYTFEAh11m34lip2z 30-)-0

Structural wood sheathing directly applied, except end verticals, and

5-10-8 7-11-12 Scale = 1:61.7 4x8 =



		8-2-0	+	10-3-8	16-2-0		24-1-12			30-0-0	
Plate Offse	ate (X V)	8-2-0 [2:0-5-1,Edge], [5:0-4-12,E	-dael [7:0-6-	2-1-8 ' 1 0-2-11 [9·F	5-10-8 Edge 0-1-12] [14.0-6-8 0-3-41	7-11-12	2		5-10-4	
1 late onse	JIJ (X, I)	[2.0 5 1,Euge], [5.0 + 12,E	_ugc], [1.0 0 \	,0 2 1], [0.1	_ugc,o 1 12], [14.0 0 0,0 0 4]					
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	-0.20 13-14	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.38 11-13	>952	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.12 10	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	12014	Matri	x-AS					Weight: 139 lb	FT = 20%

LUMBER-BRACING-

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

2-0-0 oc purlins (2-11-0 max.): 5-7. WEBS 2x4 SPF No.2 **BOT CHORD** Rigid ceiling directly applied. **SLIDER** Left 2x4 SPF No.2 2-6-0 **WEBS** 1 Row at midpt

REACTIONS. (size) 2=0-3-8, 10=0-3-8 Max Horz 2=227(LC 9)

Max Uplift 2=-230(LC 12), 10=-182(LC 12) Max Grav 2=1406(LC 1), 10=1343(LC 1)

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

 $2\text{-}4\text{--}2164/384,\ 4\text{-}5\text{--}2051/354,\ 5\text{-}6\text{--}2669/499,\ 6\text{-}7\text{--}2961/504,\ 7\text{-}8\text{--}1103/214,}$ TOP CHORD

8-9=-1049/221. 9-10=-1298/217

BOT CHORD 2-16=-436/1868, 6-14=-481/118, 13-14=-517/2724, 11-13=-513/2960

5-16=-739/186, 14-16=-365/1920, 5-14=-293/1649, 6-13=-17/273, 7-11=-2276/476, **WEBS**

8-11=-32/443, 9-11=-164/1098

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph, TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 8-2-0, Exterior(2R) 8-2-0 to 11-2-0, Interior(1) 11-2-0 to 24-1-12, Exterior(2R) 24-1-12 to 27-1-12, Interior(1) 27-1-12 to 29-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=230, 10=182.
- 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.



July 2,2021



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



Job Truss Truss Type Qty Summit/129 Manor 2851482 D07 **ROOF SPECIAL** Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, I ic. Thu Builders FirstSource (Valley Center),

10-3₋8 0-5-8

4-9-4

17-10-0

7-6-8

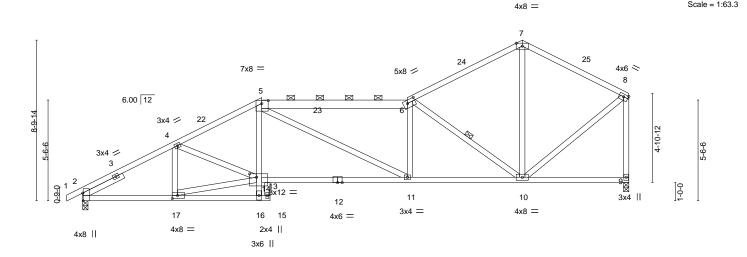
RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SER PRESES 4 LEE'S SUMMIT, MISSOURI

Valley Center, KS - 67147,

5-0-12

ID:tjnOHGeVPJTyi41JASwyTKzhfUX-JJrolKuHeaSKzuQHP3doXHnderaQZaT 30-0-6-3-12

Scale = 1:63.3



		5-0-12	5-2-12		6-8	6-3-			5-10-4	
Plate Offs	sets (X,Y)	[2:0-5-1,Edge], [5:0-4-4,	0-2-0], [6:0-5-4,0-2	2-0], [8:Edge,0-1-12], [1	14:0-4-8,0-2-4], [1	7:0-3-8,0-2-0]				
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 0.49	Vert(LL)	-0.14 11-13	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0.80	Vert(CT)	-0.32 11-13	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB 0.50	Horz(CT)	0.09 9	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matrix-AS					Weight: 146 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD 5-6: 2x6 SPF No.2

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

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

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

Max Horz 2=227(LC 9)

Max Uplift 2=-230(LC 12), 9=-182(LC 12) Max Grav 2=1406(LC 1), 9=1343(LC 1)

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

TOP CHORD 2-4=-2169/365, 4-5=-2409/428, 5-6=-2314/411, 6-7=-1063/224, 7-8=-1038/221,

8-9=-1287/222

2-17=-415/1875, 13-14=-357/2077, 11-13=-420/2127, 10-11=-391/2316, 13-15=-313/0 **BOT CHORD**

WEBS 14-16=0/448, 5-14=-30/498, 4-17=-383/120, 4-14=-33/277, 6-10=-1766/377,

7-10=-71/490, 8-10=-163/1068, 14-17=-352/1826

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 9-10-0, Exterior(2R) 9-10-0 to 12-10-0, Interior(1) 12-10-0 to 24-1-12, Exterior(2R) 24-1-12 to 27-1-12, Interior(1) 27-1-12 to 29-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=230, 9=182.
- 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

2-0-0 oc purlins (4-0-7 max.): 5-6.

Rigid ceiling directly applied.

1 Row at midpt

July 2,2021



Job Truss Truss Type Qty Summit/129 Manor 2851482 D08 **ROOF SPECIAL**

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

Builders FirstSource (Valley Center), Valley Center, KS - 67147, Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, I ic. Thu

ID:tjnOHGeVPJTyi41JASwyTKzhfUX-nVPAygvvPtaBb2_Uzn814Vk_aQkkl lgsdnps@zv 424-1-12 30-0-0 5-0-0 1-2-8 8-0-0 4-7-12

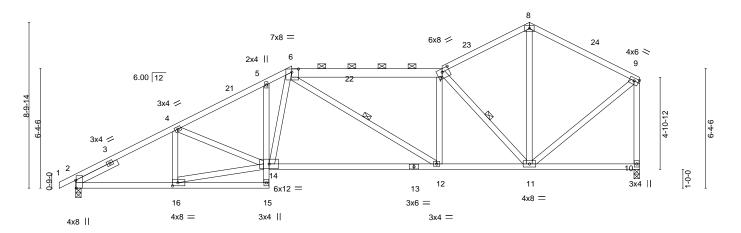
> Scale = 1:61.3 4x6 =

Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (4-6-9 max.): 6-7.

Rigid ceiling directly applied.

1 Row at midpt



		5-3-8	10-3-8	₁ 11-6-0	19-6-0	24-1-12	30-0-0	
		5-3-8	5-0-0	'1-2-8'	8-0-0	4-7-12	5-10-4	
Plate Offs	sets (X,Y)	[2:0-5-1,Edge], [6:0-4-4,	0-2-0], [7:0-4-8,0	-2-0], [9:Edge,0-1-12],	[16:0-3-8,0-2-0]			
LOADING	G (psf)	SPACING-	2-0-0	CSI.	DEFL. in	(loc) I/defl L	_/d PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC 0.48	Vert(LL) -0.21	12-14 >999 2	40 MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0.73	Vert(CT) -0.46	12-14 >772 1	80	
BCLL	0.0	Rep Stress Incr	YES	WB 0.46	Horz(CT) 0.08	10 n/a r	n/a	
BCDL	10.0	Code IRC2018/T	PI2014	Matrix-AS			Weight: 151 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

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

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

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

Max Horz 2=227(LC 9)

Max Uplift 2=-230(LC 12), 10=-182(LC 12) Max Grav 2=1406(LC 1), 10=1343(LC 1)

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

TOP CHORD $2\text{-}4\text{--}2178/365, \, 4\text{-}5\text{--}2312/422, \, 5\text{-}6\text{--}2201/444, \, 6\text{-}7\text{--}1828/334, \, 7\text{-}8\text{--}1027/234, \, 7\text{--}1027/234, \, 7\text{$

8-9=-1032/221, 9-10=-1281/226

2-16=-413/1884, 12-14=-384/1886, 11-12=-321/1822 **BOT CHORD**

WEBS 4-16=-350/126, 14-16=-378/1874, 7-12=0/322, 7-11=-1454/310, 8-11=-104/557,

9-11=-164/1052, 6-14=-90/546

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 11-6-0, Exterior(2R) 11-6-0 to 14-6-0, Interior(1) 14-6-0 to 24-1-12, Exterior(2R) 24-1-12 to 27-1-12, Interior(1) 27-1-12 to 29-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=230, 10=182.
- 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.



July 2,2021



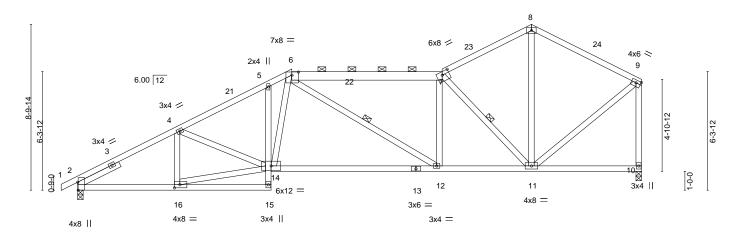
RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Summit/129 Manor AS NOTED FOR PLAN REVIEW DEVELOPMENT SER PRESEST 2851482 D09 **ROOF SPECIAL** LEE'S SUMMIT, MISSOURI

Job Reference (optional)
8.430 s Jun 2 2021 MiTek Industries, I c. Thu 1151:10-2021 01D/nxrzYKG/ww Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-juXwNMx9xVqvqM8s CAV9wPJ703D/nxrz 19-4-12 30-0-0 24-1-12

8-0-0

4-9-0

Scale = 1:61.3 4x6 =



		5-3-8	10-3-8	1 ₁ 1-4-12	19-4-12		24-1-12		30-0-0	
		5-3-8	5-0-0	'1-1-4'	8-0-0		4-9-0	ı	5-10-4	
Plate Offs	ets (X,Y)	[2:0-5-1,Edge], [6:0-4-4,	0-2-0], [7:0-4-8,	0-2-0], [9:Edge,0-1-12], [16:0-3-8,0-2-0]					
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in (I	oc) I/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC 0.48	Vert(LL)	-0.20 12	-14 >999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0.73	Vert(CT)	-0.45 12	-14 >795	180		
BCLL	0.0	Rep Stress Incr	YES	WB 0.46	Horz(CT)	80.0	10 n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matrix-AS					Weight: 151 lb	FT = 20%

LUMBER-BRACING-

5-0-0

1-1-4

2x4 SPF No.2 *Except* Structural wood sheathing directly applied, except end verticals, and TOP CHORD TOP CHORD

6-7: 2x6 SPF No.2 2-0-0 oc purlins (4-6-5 max.): 6-7. **BOT CHORD** 2x4 SPF No.2 **BOT CHORD** Rigid ceiling directly applied.

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

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

Max Horz 2=227(LC 9)

Max Uplift 2=-230(LC 12), 10=-182(LC 12) Max Grav 2=1406(LC 1), 10=1343(LC 1)

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

TOP CHORD $2-4=-2178/365,\ 4-5=-2312/422,\ 5-6=-2194/442,\ 6-7=-1855/338,\ 7-8=-1029/233,$

8-9=-1032/221, 9-10=-1281/226

2-16=-413/1884, 12-14=-387/1901, 11-12=-325/1849 **BOT CHORD**

WEBS 4-16=-350/126, 14-16=-379/1871, 7-12=0/316, 7-11=-1467/314, 8-11=-102/552,

9-11=-163/1052, 6-14=-87/522

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 11-4-12, Exterior(2R) 11-4-12 to 14-4-12, Interior(1) 14-4-12 to 24-1-12, Exterior(2R) 24-1-12 to 27-1-12, Interior(1) 27-1-12 to 29-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=230, 10=182.
- 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.



July 2,2021





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ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Summit/129 Manor 2851482 D10 **ROOF SPECIAL**

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

Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-B45JbhxnioymSW2evhki7VTJQxMVOD 24-1-12 30-0-10-3₇8 0-6-12 4-8-10 7-5-4 6-5-0

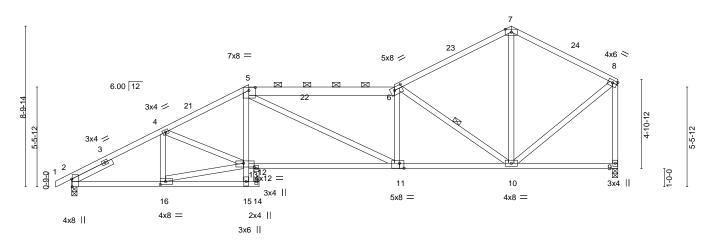
> Scale = 1:63.3 4x8 =

Structural wood sheathing directly applied, except end verticals, and

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

Rigid ceiling directly applied.

1 Row at midpt



		5-0-2	10-3-8	17-8	8-12	24-1-1	12		30-0-0	
		5-0-2	5-3-6	7-	5-4	6-5-0)	1	5-10-4	
Plate Offs	sets (X,Y)	[2:0-5-1,Edge], [5:0-4-4,	0-2-0], [6:0-5-4,	0-2-0], [8:Edge,0-1-12], [11:0-3-0,0-3-4], [⁻	13:0-7-0,0-2-8], [16:0-3-8,0	-2-0]		
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 0.49	Vert(LL)	-0.15 11-12	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0.80	Vert(CT)	-0.33 11-12	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB 0.51	Horz(CT)	0.10 9	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matrix-AS					Weight: 146 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD 5-6: 2x6 SPF No.2

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

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

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

Max Horz 2=227(LC 9)

Max Uplift 2=-230(LC 12), 9=-182(LC 12) Max Grav 2=1406(LC 1), 9=1343(LC 1)

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

TOP CHORD 2-4=-2168/365, 4-5=-2426/429, 5-6=-2351/418, 6-7=-1065/224, 7-8=-1039/221,

8-9=-1287/222

BOT CHORD 2-16=-415/1874, 12-13=-355/2104, 11-12=-422/2143, 10-11=-395/2354, 12-14=-267/0

WEBS 13-15=0/405, 5-13=-28/502, 4-16=-391/120, 6-10=-1796/381, 7-10=-69/486,

8-10=-163/1069, 13-16=-349/1834, 4-13=-32/295

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 9-8-12, Exterior(2R) 9-8-12 to 12-8-12, Interior(1) 12-8-12 to 24-1-12, Exterior(2R) 24-1-12 to 27-1-12, Interior(1) 27-1-12 to 29-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=230, 9=182.
- 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.



July 2,2021





Job Truss Truss Type Qty Summit/129 Manor 2851482 D11 Roof Special

2-2-12

3-10-10

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SER PROPERTY LEE'S SUMMIT, MISSOURI

| 1 | Job Reference (optional) | LEE'S SUMMIT, MISSON | S.430 s. Jun 2 2021 MiTek Industries, Inc. Thu to 15 17 2021 | Gardinary | ID:tjnOHGeVPJTyi41JASwyTKzhfUX-gGeho1yQT64d3f FCdCz Luckg/CEqweb 12 10 17 20 1.4 | 24-1-12 | 30-1-0 | 5-1 17 20 1.4 | 30-1-0 | 5-1 17 20 1.4 | 30-1-0 | 5-1 17 20 1.4 | 30-1-0 | 5-1 17 20 1.4 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-1-0 | 30-Builders FirstSource (Valley Center), Valley Center, KS - 67147,

5-9-4

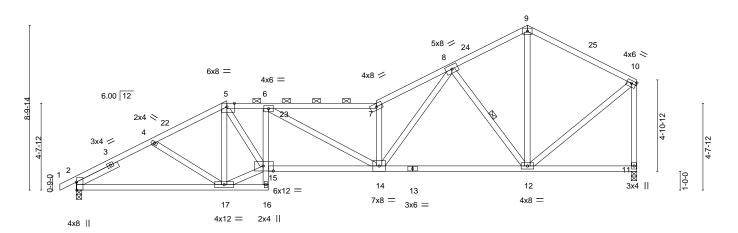
Scale = 1:61.7 4x6 =

Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (2-8-5 max.): 5-7.

Rigid ceiling directly applied.

1 Row at midpt



		8-0-12	1	10-3-8 ₁	16-0-12	l l	24-1-12			30-0-0	
		8-0-12	1	2-2-12	5-9-4		8-1-0		ı	5-10-4	
Plate Off	sets (X,Y)	[2:0-5-1,Edge], [5:0-4-12,l	Edge], [10:Ed	ge,0-1-12], [15:0-6-8,0-3-4]						
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	-0.21 14-15	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.38 14-15	>939	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.11 11	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	12014	Matri	x-AS					Weight: 144 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

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

REACTIONS. (size) 2=0-3-8, 11=0-3-8 Max Horz 2=227(LC 9)

Max Uplift 2=-230(LC 12), 11=-182(LC 12) Max Grav 2=1406(LC 1), 11=1343(LC 1)

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

 $2-4=-2163/384,\ 4-5=-2056/355,\ 5-6=-2718/508,\ 6-7=-2975/493,\ 7-8=-3324/590,$ TOP CHORD

8-9=-1014/227, 9-10=-1042/217, 10-11=-1296/216

BOT CHORD 2-17=-436/1867, 6-15=-500/115, 14-15=-532/2782, 12-14=-296/1607

WEBS 5-17=-703/176, 15-17=-358/1901, 5-15=-298/1657, 7-14=-1801/378, 8-14=-399/2228,

8-12=-1271/314, 9-12=-107/566, 10-12=-152/1068

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph, TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0.10-8 to 2-1-8, Interior(1) 2-1-8 to 8-0-12, Exterior(2R) 8-0-12 to 11-0-12, Interior(1) 11-0-12 to 29-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 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.



July 2,2021



Job Qty Truss Type Truss Summit/129 Manor 2851482 D12 Hip Girder Job Reference (optional) Builders First Source, Valley Center, KS 67147 8.430 s Nov 18 2020 MiTek In ID:tjnOHGeVPJTyi41JASwyTKzhfUX-JvOH4pCbvK338qL

7-0-0

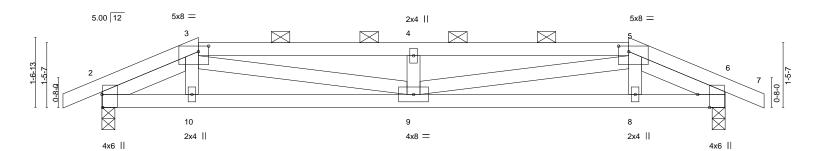
4-10-0

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW **DEVELOPMENT SERVICES**5219 LEE'S SUMMIT, MISSOURI

11-10-0

4-10-0

Scale = 1:25.9



	<u> </u>	2-2-0		7-0-0					-10-0		14-0-0	
Plate Offsets (X,Y)		2-2-0 [2:0-3-8,Edge], [3:0-2-12	4-10-0 12,0-1-8], [6:0-3-8,Edge]				4-	10-0		2-2-0		
LOADING (p	,	SPACING-	2-0-0	CSI.	1	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCDL 10	5.0 0.0	Plate Grip DOL Lumber DOL	1.15 1.15	TC 0.46 BC 0.44	\	/ert(LL) /ert(CT)	-0.09 -0.17	9	>999 >999	240 180	MT20	197/144
	0.0 0.0	Rep Stress Incr Code IRC2018/T	NO PI2014	WB 0.23 Matrix-MS		Horz(CT)	0.01	6	n/a	n/a	Weight: 54 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Sheathed or 5-0-10 oc purlins, except

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

2-0-0 oc purlins (3-8-1 max.): 3-5.

LUMBER-

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

-0-10-8

0-10-8

2-2-0

2-2-0

2x4 SPF No.2 **WEBS SLIDER** Left 2x4 SPF No.2 -I 2-0-10, Right 2x4 SPF No.2 -I 2-0-10

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

Max Horz 2=-18(LC 9)

Max Uplift 2=-116(LC 4), 6=-116(LC 5) Max Grav 2=691(LC 1), 6=691(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1259/197, 3-4=-2067/363, 4-5=-2067/363, 5-6=-1259/198 **BOT CHORD** 2-10=-133/880, 9-10=-133/880, 8-9=-134/880, 6-8=-134/880

WEBS 3-9=-173/945, 4-9=-282/118, 5-9=-173/945

- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 116 lb uplift at joint 2 and 116 lb uplift at joint 6.
- 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.Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 2,2021



Job Truss Truss Type Qty Summit/129 Manor 2851482 D13 Hip Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, I Builders FirstSource (Valley Center), Valley Center, KS - 67147, Thu ID:tjnOHGeVPJTyi41JASwyTKzhfUX-8TC30Nz2EQCUhptRIKjCnY1a

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

1-10-8

Structural wood sheathing directly applied, except

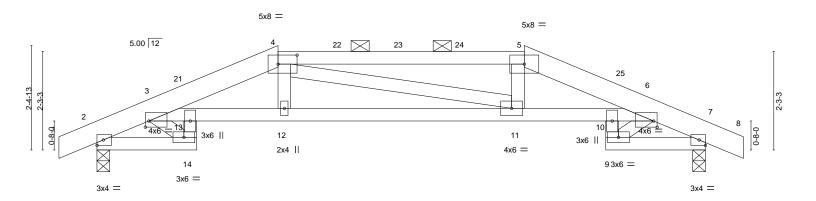
2-0-0 oc purlins (4-1-14 max.): 4-5.

10-0-0 oc bracing: 10-11

Rigid ceiling directly applied. Except:

14-10-8

Scale = 1:26.5



9-10-0

		2-3-8	4-2-0		9-10-0			11-8-8	14-0-0	
	<u>'</u>	2-3-8	1-10-8		5-8-0			1-10-8	2-3-8	ı
Plate Offse	ets (X,Y)	[3:0-0-15,0-1-11], [4:0-5	-4,0-2-8], [6:0-0	-15,0-1-11]						
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC 0.42	Vert(LL)	-0.06 12	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0.63	Vert(CT)	-0.12 11-12	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.07 7	n/a	n/a		
BCDL	10.0	Code IRC2018/T	TPI2014	Matrix-AS	, ,				Weight: 56 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

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

-0-10-8 0-10-8

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

Max Horz 2=-33(LC 13)

Max Uplift 2=-101(LC 12), 7=-101(LC 13) Max Grav 2=691(LC 1), 7=691(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. $3-16=-767/202,\ 3-4=-1605/371,\ 4-5=-1529/377,\ 5-6=-1606/371,\ 6-7=-767/201$ TOP CHORD

BOT CHORD 2-14=-127/576, 13-14=-105/491, 3-13=-262/1357, 12-13=-291/1511, 11-12=-288/1529,

1-10-8

10-11=-293/1511, 6-10=-264/1357, 9-10=-106/491, 7-9=-129/576

3-14=-568/135, 6-9=-568/136 **WEBS**

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-2-0, Exterior(2R) 4-2-0 to 8-4-15, Interior(1) 8-4-15 to 9-10-0, Exterior(2R) 9-10-0 to 14-0-0, Interior(1) 14-0-0 to 14-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=101, 7=101.
- 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.





Job Truss Truss Type Qty Summit/129 Manor 2851482 D14 Hip Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, I Builders FirstSource (Valley Center), Valley Center, KS - 67147,

3-10-8

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

Thu ID:tjnOHGeVPJTyi41JASwyTKzhfUX-cfmRDj_g_jKLJz\$dJ2FRI(ma0gd/

Structural wood sheathing directly applied, except

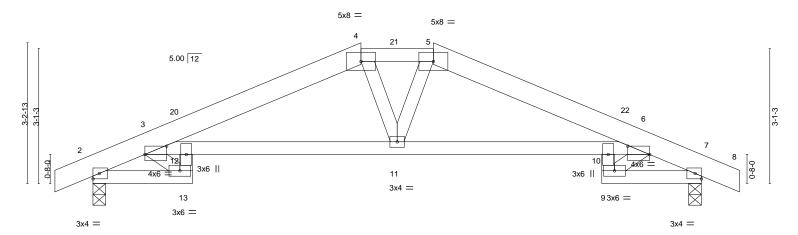
2-0-0 oc purlins (5-3-8 max.): 4-5.

10-0-0 oc bracing: 10-11

Rigid ceiling directly applied. Except:

3-10-8

Scale = 1:26.5



1-8-0

2-3-8	-	6-2-0	7-0-0 7-10-0	11-8-8		14-0-0	
		3-10-8	0-10-0 0-10-0	3-10-8		2-3-8	<u> </u>
[3:0-6-1,0-2-5], [6:	0-6-1,0-2-5]						
SPACING-	2-0-0	CSI.	DEFL.	in (loc) I/defl	L/d	PLATES	GRIP
Plate Grip [OOL 1.15	TC 0.38	Vert(LL)	-0.08 10-11 >999	240	MT20	197/144
Lumber DO	L 1.15	BC 0.66	Vert(CT)	-0.16 10-11 >999	180		
Rep Stress	Incr YES	WB 0.07	Horz(CT)	0.08 7 n/a	n/a		
Code IRC2	018/TPI2014	Matrix-AS				Weight: 56 lb	FT = 20%
)	2-3-8) [3:0-6-1,0-2-5], [6: SPACING- Plate Grip I Lumber DO Rep Stress	2-3-8) [3:0-6-1,0-2-5], [6:0-6-1,0-2-5] SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	2-3-8 3-10-8) [3:0-6-1,0-2-5], [6:0-6-1,0-2-5] SPACING- 2-0-0 CSI. Plate Grip DOL 1.15 TC 0.38 Lumber DOL 1.15 BC 0.66 Rep Stress Incr YES WB 0.07	2-3-8 3-10-8 0-10-0 0-10-0 0-10-0) [3:0-6-1,0-2-5], [6:0-6-1,0-2-5] SPACING- 2-0-0 CSI. DEFL. Plate Grip DOL 1.15 TC 0.38 Vert(LL) Lumber DOL 1.15 BC 0.66 Vert(CT) Rep Stress Incr YES WB 0.07 Horz(CT)	2-3-8 3-10-8 0-10-0 0-10-0 3-10-8) [3:0-6-1,0-2-5], [6:0-6-1,0-2-5] SPACING- 2-0-0 CSI. DEFL. in (loc) I/defl Plate Grip DOL 1.15 TC 0.38 Vert(LL) -0.08 10-11 >999 Lumber DOL 1.15 BC 0.66 Vert(CT) -0.16 10-11 >999 Rep Stress Incr YES WB 0.07 Horz(CT) 0.08 7 n/a	2-3-8 3-10-8 0-10-0 0-10-0 3-10-8) [3:0-6-1,0-2-5], [6:0-6-1,0-2-5] SPACING- 2-0-0 CSI. DEFL. in (loc) I/defl L/d Plate Grip DOL 1.15 TC 0.38 Vert(LL) -0.08 10-11 >999 240 Lumber DOL 1.15 BC 0.66 Vert(CT) -0.16 10-11 >999 180 Rep Stress Incr YES WB 0.07 Horz(CT) 0.08 7 n/a n/a	2-3-8 3-10-8 0-10-0 0-10-0 3-10-8 2-3-8) [3:0-6-1,0-2-5], [6:0-6-1,0-2-5] SPACING- 2-0-0 CSI. DEFL. in (loc) I/defl L/d PLATES Plate Grip DOL 1.15 TC 0.38 Vert(LL) -0.08 10-11 >999 240 MT20 Lumber DOL 1.15 BC 0.66 Vert(CT) -0.16 10-11 >999 180 Rep Stress Incr YES WB 0.07 Horz(CT) 0.08 7 n/a n/a

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

-0-10-8 0-10-8

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

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

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

Max Horz 2=-46(LC 13)

Max Uplift 2=-99(LC 12), 7=-99(LC 13) Max Grav 2=691(LC 1), 7=691(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. $3-15 = -732/195, \ 3-4 = -1178/260, \ 4-5 = -1125/270, \ 5-6 = -1178/264, \ 6-7 = -732/198$ TOP CHORD BOT CHORD 2-13=-133/538, 12-13=-93/459, 3-12=-122/959, 11-12=-165/1080, 10-11=-170/1080,

6-10=-125/959, 9-10=-96/459, 7-9=-137/538

WEBS 3-13=-527/123, 6-9=-527/127

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-2-0, Exterior(2E) 6-2-0 to 7-10-0, Exterior(2R) 7-10-0 to 12-0-15, Interior(1) 12-0-15 to 14-10-8 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
- 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 100 lb uplift at joint(s) 2, 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.





Job Truss Truss Type Qty Summit/129 Manor 2851482 D15 Common Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES2 LEE'S SUMMIT, MISSOURI

8.430 s Jun 2 2021 MiTek Industries, I ic. Thu 19 1154 17 2021 ID:tjnOHGeVPJTyi41JASwyTKzhfUX-4rKpQ3_II1SCw71qtlmgsz1911PTFHx112hp 7-0-0

14-0-0

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

14-10-8

Scale = 1:25.3

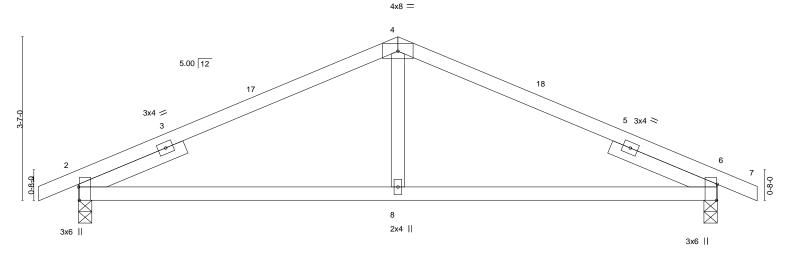


Plate Offsets (X,Y)--[2:0-3-8,Edge], [6:0-4-3,Edge] SPACING-L/d **PLATES** LOADING (psf) CSI. in (loc) I/def GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.45 Vert(LL) -0.07 8-15 >999 240 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 BC 0.40 Vert(CT) -0.12 8-15 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.07 Horz(CT) 0.02 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Matrix-AS Weight: 45 lb

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

-0-10-8 0-10-8

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

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

REACTIONS. (size) 2=0-3-8, 6=0-3-8 Max Horz 2=-52(LC 13)

Max Uplift 2=-97(LC 12), 6=-97(LC 13)

Max Grav 2=691(LC 1), 6=691(LC 1)

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

2-4=-829/264, 4-6=-829/264 TOP CHORD **BOT CHORD** 2-8=-140/766, 6-8=-140/766

WEBS 4-8=0/290

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 7-0-0, Exterior(2R) 7-0-0 to 10-0-0, Interior(1) 10-0-0 to 14-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 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.



July 2,2021



Job Truss Truss Type Qty Summit/129 Manor 2851482 E01 Roof Special Girder Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT. MISSOURI

Job Reference (optional)
8.430 s Jun 2 2021 MiTek Industries, I c. Thu 1/5/:18-3071-899 ID:tjnOHGeVPJTyi41JASwyTKzhfUX-Y2uCeP?wWLa3YHcDRSHvHBjK/krrCARswCjEZozDFy

8-3-8 2-8-6 2-11-14

Scale = 1:21.5 4x6 || 2 5.00 12 0-7-4 7 8 9 10 NAILED 4x6 = NAILED NAILED NAILED 4x6 NAILED

Plate Offs	ets (X,Y)	[2:0-3-9,Edge], [3:Edge,0-3-8]			
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 0.51	Vert(LL) -0.07 3-5 >999 240	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.31	Vert(CT) -0.12 3-5 >834 180	I
BCLL	0.0	Rep Stress Incr NO	WB 0.00	Horz(CT) 0.00 3 n/a n/a	I
BCDL	10.0	Code IRC2018/TPI2014	Matrix-MP		Weight: 35 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 3=0-3-8, 4=0-3-8 Max Horz 4=102(LC 5)

Max Grav 3=761(LC 1), 4=564(LC 1)

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; 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) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 4) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 5) 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, 1-4=-90, 1-3=-20

Concentrated Loads (lb)

Vert: 3=-138(B) 7=-95(B) 8=-122(B) 9=-122(B) 10=-128(B)



July 2,2021



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

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

except end verticals.

Job Truss Truss Type Qty Summit/129 Manor 2851482 E02 Monopitch Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Builders FirstSource (Valley Center), Valley Center, KS - 67147,

2-8-5

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SER PROPERTY LEE'S SUMMIT, MISSOURI

ID:tjnOHGeVPJTyi41JASwyTKzhfUX-Y2uCeP?wWLa3YHc0RSHvPBf/qFfhAlpswGjEZ6z0Fjy 8-2-0 8₇3₇8 0-1-8

Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

1-11-13

Scale = 1:24.5 2x4 || 5.00 12 2x4 || 1-0-0 0-8-0 0-3-10 2x4 || 4x8 =5.00 12

6-2-3

3-5-14

Plate Off	Plate Offsets (X,Y) [6:0-3-3,0-2-4]												
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.Ó	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	-0.25	`5-6	>379	240	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.48	5-6	>202	180			
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.17	5	n/a	n/a			
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-AS	` ′					Weight: 26 lb	FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 5=0-3-8, 7=0-3-8 Max Horz 7=130(LC 12)

Max Uplift 5=-97(LC 12), 7=-53(LC 12) Max Grav 5=355(LC 1), 7=436(LC 1)

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

-0-10-8

0-10-8

TOP CHORD 2-7=-411/233

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph, TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-3-2, Interior(1) 2-3-2 to 8-1-12 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
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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) 5, 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.



July 2,2021



Job Truss Truss Type Qty Summit/129 Manor 2851482 E03 HALF HIP

5.00 12

0-7-11

2-8-5

Valley Center, KS - 67147,

0-10-8

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SER PROPERTY LEE'S SUMMIT, MISSOURI

| Job Reference (optional) | LEE'S SU | 8.430 s Jun 2 2021 MiTek Industries, Inc. Thu | 15.11 | ID:tjnOHGeVPJTyi41JASwyTKzhfUX-0ESarl0YHeivAR | C_A08 OCS | Fry JV | V | 7-4-13 | 8-2-0 8 3 8 3 8 | 4-0-13 | 0-9-3 0-1-8

Scale = 1:23.0 4x6 = 2x4 || 5 5.00 12 10 3-9-0 6x8 = 0-8-0 3x4 = 0-3-10 4x8 =

> 8-2-0 8-3-8 4-0-13

> > BRACING-

TOP CHORD

BOT CHORD

Plate Off	sets (X,Y)	[2:0-2-2,0-3-11], [4:0-3-0,Edge]	, [7:0-4-3,0-	-2-4]								
LOADIN	G (psf)	SPACING- 2-0-	0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.1	5	TC	0.65	Vert(LL)	-0.18	6-7	>525	240	MT20	197/144
TCDL	10.0	Lumber DOL 1.1	5	BC	0.70	Vert(CT)	-0.39	6-7	>247	180		
BCLL	0.0	Rep Stress Incr YE	S	WB	0.08	Horz(CT)	0.14	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matri	x-S						Weight: 27 lb	FT = 20%

LUMBER-

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

Builders FirstSource (Valley Center),

REACTIONS. (size) 6=0-3-8, 8=0-3-8 Max Horz 8=114(LC 12)

Max Uplift 6=-79(LC 12), 8=-59(LC 12) Max Grav 6=355(LC 1), 8=436(LC 1)

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

TOP CHORD 2-8=-517/234, 2-3=-534/248 **BOT CHORD** 7-8=-348/415, 3-7=-251/240

WFBS 4-6=-481/297

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 7-4-13, Exterior(2E) 7-4-13 to 8-1-12 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) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 8.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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: 4-5.

Rigid ceiling directly applied or 9-9-7 oc bracing.

July 2,2021



Job Truss Truss Type Qty Summit/129 Manor 2851482 E04 HALF HIP GIRDER Job Reference (optional)
8.430 s Jun 2 2021 MiTek Industries, I c. Thu Builders FirstSource (Valley Center), Valley Center, KS - 67147,

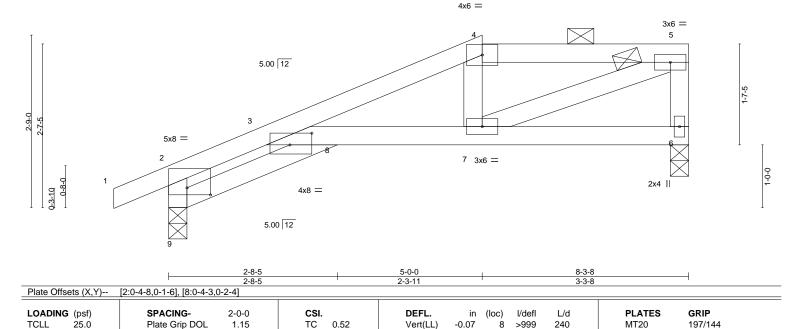
RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT. MISSOURI

FT = 20%

Weight: 29 lb

8.430 s Jun 2 2021 MiTek Industries, nc. Thu by 1152:11 3021 Page / ID:tjnOHGeVPJTyi41JASwyTKzhfUX-UQ0y351A2yqmna PYtJNUct WEJPerBeels Clantolija 5-0-0 8-3-8 0-10-8 0-11-3 1-4-8

Scale = 1:18.4



Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.13

0.06

7-8

6

>719

n/a

180

n/a

Structural wood sheathing directly applied or 5-1-8 oc purlins,

except end verticals, and 2-0-0 oc purlins (5-9-13 max.): 4-5.

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

LUMBER-

TCDL

BCLL

BCDL

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

10.0

10.0

0.0

REACTIONS. (size) 6=0-3-8, 9=0-3-8 Max Horz 9=81(LC 5)

Max Uplift 6=-116(LC 5), 9=-85(LC 8) Max Grav 6=556(LC 1), 9=553(LC 1)

Lumber DOL

Rep Stress Incr

Code IRC2018/TPI2014

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-9=-693/151, 2-3=-780/159, 3-4=-1027/187, 4-5=-953/202, 5-6=-534/135 TOP CHORD

BOT CHORD 8-9=-170/625, 3-8=-56/378, 7-8=-191/940

WEBS 5-7=-199/978

- 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.

1.15

NO

ВС

WB

Matrix-S

0.83

0.24

- 5) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb)
- 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) Girder carries hip end with 0-0-0 right side setback, 5-0-0 left side setback, and 4-0-0 end setback.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 187 lb down and 65 lb up at 5-0-0 on top 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

Vert: 1-2=-70, 2-4=-70, 4-5=-100(F=-30), 8-9=-29(F=-9), 3-8=-9(F), 6-8=-29(F=-9)



July 2,2021





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 systems, see

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



Job Truss Truss Type Qty Ply Summit/129 Manor HALF HIP GIRDER 2851482 E04

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

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

| Job Reference (optional) | LEE'S SUMMIT, MISSOURI

8.430 s Jun 2 2021 MiTek Industries, I ic. Thu to 1 1151 12021 Page 2

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LOAD CASE(S) Standard Concentrated Loads (lb) Vert: 4=-146(F)

Job Truss Truss Type Qty Summit/129 Manor 2851482 J01 DIAGONAL HIP GIRDER Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVES LEE'S SUMMIT. MISSOURI

Job Reference (optional)

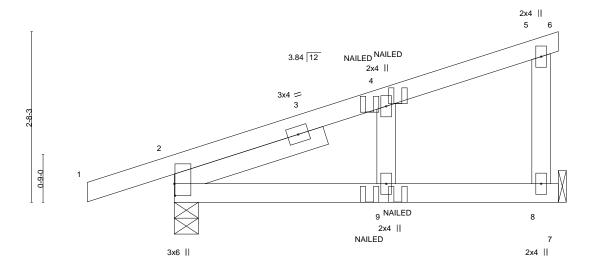
8.430 s Jun 2 2021 MiTek Industries, Inc. Thu to 4.11/5/11/8021 Page
ID:tjnOHGeVPJTyi41JASwyTKzhfUX-UQ0y351A2yqmnaIPYtJNUchh@EPPerbookUZhlol

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

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

1-4-6 3-4-0

Scale = 1:18.1



6-0-8 3-4-0

Plate Off	sets (X,Y)	[2:0-2-4,0-0-2]										
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	0.39	Vert(LL)	-0.07	9-12	>962	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.13	9-12	>522	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.02	Horz(CT)	0.03	2	n/a	n/a		
BCDL	10.0	Code IRC2018/Ti	PI2014	Matri	x-MP						Weight: 22 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

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

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

Max Horz 2=92(LC 4)

Max Uplift 2=-85(LC 4), 8=-65(LC 8) Max Grav 2=367(LC 1), 8=260(LC 1)

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

TOP CHORD 2-4=-331/82

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 exposed; Lumber DOL=1.60 plate grip
- 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) "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, 7-10=-20

Concentrated Loads (lb)

Vert: 9=-1(F=0, B=-1)





Job Truss Truss Type Qty Summit/129 Manor 2851482 J02 JACK-OPEN Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES

LEE'S SUMMIT. MISSOURI

Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, I ic.

Structural wood sheathing directly applied or 2-2-6 oc purlins,

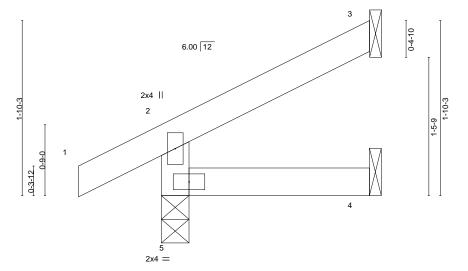
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

8.430 s Jun 2 2021 MiTek Industries, I ic. Thu rel 11/5/11/8/021-Reg ID:tjnOHGeVPJTyi41JASwyTKzhfUX-ydaKGR2ppGzdP Kb6bqdtp-lyEes1N 66tdEkuk/20F 2-2-6

2-2-6 2-2-6 0-10-8

Scale = 1:12.2



2-2-6 2-2-6

BRACING-

TOP CHORD

BOT CHORD

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	0.07	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	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	12014	Matri	x-MR						Weight: 7 lb	FT = 20%

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

> 3=Mechanical, 4=Mechanical, 5=0-3-8 (size) Max Horz 5=46(LC 12)

Max Uplift 3=-31(LC 12), 5=-21(LC 12) Max Grav 3=53(LC 1), 4=36(LC 3), 5=179(LC 1)

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

- 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; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 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.



July 2,2021



Job Truss Truss Type Qty Summit/129 Manor 2851482 J03 JACK-OPEN GIRDER

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SER PROPERTY

LEE'S SUMMIT. MISSOURI

Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Builders FirstSource (Valley Center), Valley Center, KS - 67147,

> 0-10-8 3-11-6

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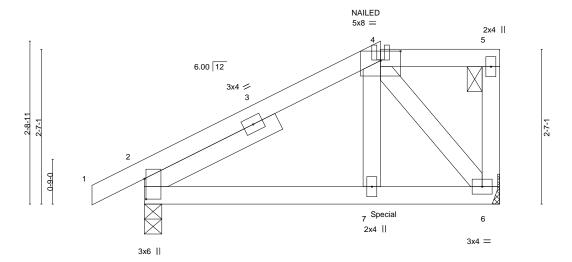
1-11-14

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

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

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

Scale = 1:19.3



1-11-14

BRACING-

TOP CHORD

BOT CHORD

Plate Offs	sets (X,Y)	[2:0-4-1,0-0-5], [4:0-4-0,0-1-15]		
LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.14	Vert(LL) 0.01 7-10 >999 240 MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.15	Vert(CT) -0.01 7-10 >999 180
BCLL	0.0	Rep Stress Incr NO	WB 0.10	Horz(CT) 0.00 2 n/a n/a
BCDL	10.0	Code IRC2018/TPI2014	Matrix-MP	Weight: 26 lb FT = 20%

LUMBER-

2x4 SPF No.2 TOP CHORD

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

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

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

Max Horz 2=83(LC 8)

Max Uplift 2=-78(LC 8), 6=-107(LC 8) Max Grav 2=444(LC 1), 6=487(LC 1)

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

TOP CHORD 2-4=-380/76

BOT CHORD 2-7=-89/345, 6-7=-86/324 **WEBS** 4-7=-45/342, 4-6=-524/139

- 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 exposed; Lumber DOL=1.60 plate grip
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 6=107.
- 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) 270 lb down and 72 lb up at 3-11-6 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: 1-4=-70, 4-5=-70, 6-8=-20

Concentrated Loads (lb)

Vert: 4=-79(B) 7=-270(B)



July 2,2021



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 systems, see

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



Job Truss Truss Type Qty Summit/129 Manor 2851482 J04 HALF HIP 1 Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Builders FirstSource (Valley Center), Valley Center, KS - 67147,

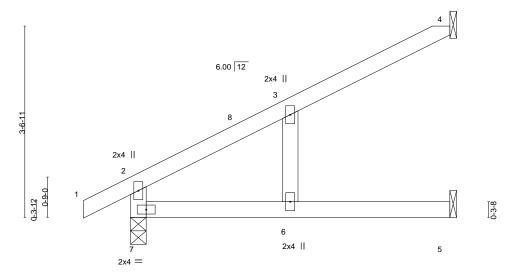
> -0-10-8 0-10-8

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SER PRESENT LEE'S SUMMIT. MISSOURI

8.430 s Jun 2 2021 MiTek Industries, I ic. Thu to 14115122 3021 Page ID:tjnOHGeVPJTyi41JASwyTKzhfUX-Rp7iUm2RaZ5U1 vngIMr 113 26M6 28 71/152 2010

2-11-10 2-7-12

Scale = 1:21.4



LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) >770 25.0 Plate Grip DOL Vert(LL) 0.09 240 197/144 **TCLL** 1.15 TC 0.32 6 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.42 Vert(CT) -0.14 6 >492 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.02 Horz(CT) 0.04 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-AS Weight: 18 lb FT = 20%

> **BRACING-**TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

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

Max Horz 7=114(LC 12)

Max Uplift 4=-64(LC 12), 5=-17(LC 12), 7=-32(LC 12) Max Grav 4=153(LC 1), 5=99(LC 1), 7=336(LC 1)

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) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-10-8 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
- 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) 4, 5, 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.



Job Truss Truss Type Qty Summit/129 Manor 2851482 J05 JACK-OPEN 8 Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, I ic. Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SER® 25231 LEE'S SUMMIT. MISSOURI

8.430 s Jun 2 2021 MiTek Industries, I ic. Thu 19 11/54/22/3021 Rage i ID:tjnOHGeVPJTyi41JASwyTKzhfUX-rOpr6o5JtUT3uN eMLRv BSsS 83 wyd sygu 40Fjg

PLATES

Weight: 18 lb

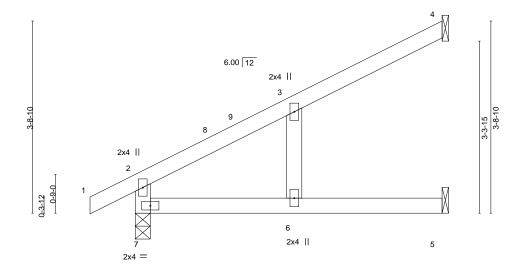
MT20

GRIP 197/144

FT = 20%

0-10-8 3-0-15 2-10-5

Scale = 1:22.3



5-11-4

LOADING TCLL	(psf) 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.31	DEFL. Vert(LL)	in 0.10	(loc) 6	l/defl >697	L/d 240
TCDL	10.0	Lumber DOL 1.15	BC 0.42	Vert(CT)	-0.14	6	>492	180
BCLL	0.0	Rep Stress Incr YES	WB 0.02	Horz(CT)	0.04	4	n/a	n/a
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS					

BRACING-

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

WEBS 2x4 SPF No.2 REACTIONS.

LUMBER-

TOP CHORD

BOT CHORD

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

Max Horz 7=114(LC 12)

2x4 SPF No 2

2x4 SPF No.2

Max Uplift 4=-63(LC 12), 5=-18(LC 12), 7=-32(LC 12) Max Grav 4=151(LC 1), 5=100(LC 1), 7=336(LC 1)

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

- 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) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-10-8 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
- 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) 4, 5, 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.



July 2,2021



Job Truss Truss Type Qty Summit/129 Manor 2851482 J06 JACK-OPEN Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, I Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT. MISSOURI

8.430 s Jun 2 2021 MiTek Industries, Inc. Thu by 11/5/203021-83021 BittinOHGeVPJTyi41JASwyTKZhfUX-FzV_kq7CAPrelpNx0ZSFp337790WHbkz18m2Dt0

197/144

FT = 20%

MT20

Structural wood sheathing directly applied, except end verticals.

Weight: 17 lb

3-11-13 0-10-8 2-8-5 1-3-8 1-11-7

Scale = 1:21.3 6.00 12 2x4 || 2-8-10 3 2x4 2 6 6x8 = 1-0-0 0-6-0 0-3-12 5.00 12 2x4 = 3-11-13 1-3-8 1-11-7 SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc)

0.10

-0.14

0.06

>687

>495

n/a

Rigid ceiling directly applied.

6

5

5-6

240

180

n/a

Vert(LL)

Vert(CT)

Horz(CT)

LUMBER-

LOADING (psf)

TCLL

TCDL

BCLL

BCDL

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

25.0

10.0

0.0

10.0

BRACING-TOP CHORD

1.15

1.15

YES

BOT CHORD

Matrix-AS

TC

ВС

WB

0.35

0.40

0.02

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

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

Max Horz 7=114(LC 12)

Max Uplift 4=-69(LC 12), 5=-13(LC 12), 7=-31(LC 12) Max Grav 4=159(LC 1), 5=96(LC 3), 7=336(LC 1)

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) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-10-8 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
- 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) 4, 5, 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.





Job Truss Truss Type Qty Summit/129 Manor 2851482 J07 HALF HIP

2-8-5 2-8-5

Valley Center, KS - 67147,

-0-10-8 0-10-8

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SER PROPERTY

Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Thu

5-11-4 0-3-14 2-11-1

5-11-4

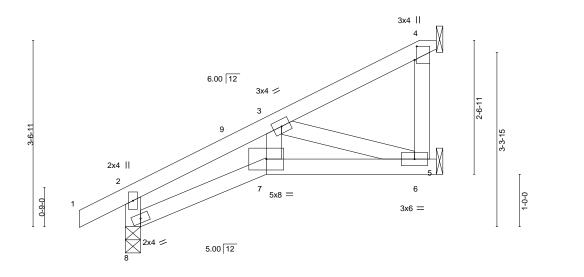
Structural wood sheathing directly applied.

Rigid ceiling directly applied.

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LEE'S SUMMIT, MISSOURI

Scale = 1:22.0



3-2-15 Plate Offsets (X,Y)--[4:0-3-2,0-0-8] SPACING-**PLATES** GRIP LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/def L/d

Plate Grip DOL TCLL 25.0 1.15 TC 0.63 Vert(LL) -0.14 >472 240 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 ВС 0.08 Vert(CT) -0.25 >267 180 BCLL 0.0 Rep Stress Incr YES WB 0.04 Horz(CT) 0.10 6 n/a n/a BCDL Code IRC2018/TPI2014 FT = 20% 10.0 Weight: 22 lb Matrix-AS

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

Builders FirstSource (Valley Center),

WEBS 2x4 SPF No.2

(size) 6=Mechanical, 4=Mechanical, 8=0-3-8

Max Horz 8=117(LC 12)

Max Uplift 6=-19(LC 12), 4=-58(LC 12), 8=-30(LC 12) Max Grav 6=65(LC 3), 4=215(LC 1), 8=326(LC 1)

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

2-8=-301/200 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 Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-8-0 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) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 4, 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) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.





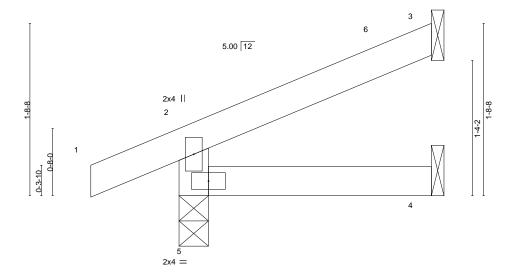
Job Truss Truss Type Qty Summit/129 Manor 2 2851482 J08 Jack-Open Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SER® 25234 LEE'S SUMMIT, MISSOURI

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Scale = 1:11.4



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 0.07	Vert(LL) -0.00 4-5 >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 0.00	Horz(CT) 0.00 3 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MR		Weight: 7 lb FT = 20%

2-6-0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

> 3=Mechanical, 4=Mechanical, 5=0-3-8 (size) Max Horz 5=43(LC 12) Max Uplift 3=-32(LC 12), 5=-29(LC 8)

Max Grav 3=65(LC 1), 4=42(LC 3), 5=191(LC 1)

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) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 2-5-4 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 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.



Structural wood sheathing directly applied or 2-6-0 oc purlins,

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

except end verticals.



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Summit/129 Manor 2851482 J09 Half Hip Girder

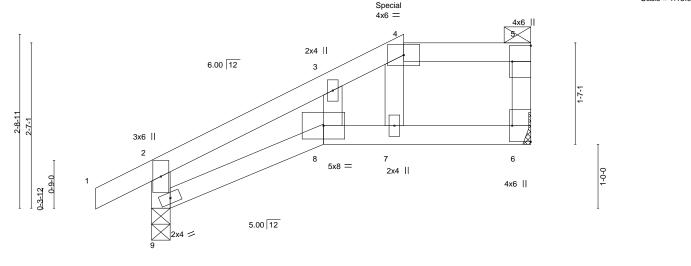
AS NOTED FOR PLAN REVIEW DEVELOPMENT SER PRESS LEE'S SUMMIT. MISSOURI

Job Reference (optional)

8.430 s Jun 2 2021 MiTek Industries, Inc. Thu by 41/5/12/2020/11 Page
ID:tjnOHGeVPJTyi41JASwyTKzhfUX-gYA6Nr94SKDDcH5Vhh0yR vhal-gQdje nrwyNQ4Y 0 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

3-11-6 0-10-8 2-8-5 1-3-1 1-11-14

Scale = 1:18.0



3-11-6

1-3-1

BOT CHORD

1-11-14

Rigid ceiling directly applied or 9-10-12 oc bracing.

Plate Offsets (X,Y)--[5:Edge,0-3-8], [6:Edge,0-3-8] SPACING-LOADING (psf) CSI. DEFL. in (loc) I/def L/d **PLATES** GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.35 Vert(LL) 0.12 8 >564 240 197/144 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.35 Vert(CT) 0.10 8 >658 180 **BCLL** 0.0 Rep Stress Incr NO WB 0.05 Horz(CT) -0.05 6 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Matrix-MR Weight: 19 lb

LUMBER-**BRACING-**

2x4 SPF No.2 TOP CHORD TOP CHORD Structural wood sheathing directly applied or 5-11-4 oc purlins, **BOT CHORD** 2x4 SPF No.2 except end verticals, and 2-0-0 oc purlins: 4-5.

REACTIONS. (size) 6=Mechanical, 9=0-3-8

2x4 SPF No.2

Max Horz 9=78(LC 5)

Max Uplift 6=-368(LC 5), 9=-209(LC 8) Max Grav 6=307(LC 1), 9=361(LC 1)

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

TOP CHORD 2-3=-335/341, 3-4=-205/274, 4-5=-223/314, 2-9=-376/282

BOT CHORD 8-9=-303/231, 7-8=-269/208, 6-7=-301/218

WFBS 4-7=-97/302

NOTES-

WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- 6) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=368, 9=209.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 120 lb down and 516 lb up at 3-11-6 on top 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, 2-4=-70, 4-5=-70, 8-9=-20, 6-8=-20

Concentrated Loads (lb) Vert: 4=-88(F)



July 2,2021



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 chorembers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Summit/129 Manor 2851482 J10 Jack-Open Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SER PRESES LEE'S SUMMIT, MISSOURI

Thu 1/5/:30-3071 lnc. ID:tjnOHGeVPJTyi41JASwyTKzhfUX-8kkUaBAiDeL3EQ jiFPXBz8Eov4bDSsvv6R6 4-0-0

Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

Scale = 1:13.0 3.84 12 2x4 || 2 1-8-3 0-6-0 2x4

4-0-0

4-0-0

						•						
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	0.17	Vert(LL)	-0.01	4-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.02	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/TF	12014	Matri	x-AS						Weight: 11 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. 5=0-4-9, 3=Mechanical, 4=Mechanical (size) Max Horz 5=61(LC 8)

Max Uplift 5=-84(LC 8), 3=-46(LC 12)

Max Grav 5=298(LC 1), 3=111(LC 1), 4=69(LC 3)

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

1-4-6

TOP CHORD 2-5=-261/212

- 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) -1-4-6 to 2-10-8, Exterior(2R) 2-10-8 to 3-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 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.



July 2,2021



Job Truss Truss Type Qty Summit/129 Manor 2851482 J11 Jack-Open Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Builders FirstSource (Valley Center), Valley Center, KS - 67147, Thu nc.

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

Scale = 1:13.2

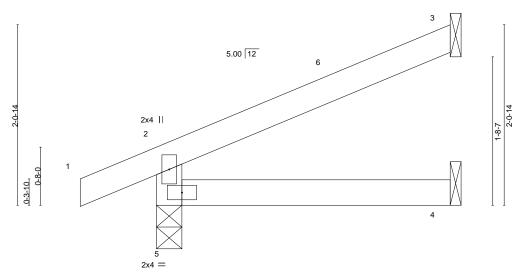
ID:tjnOHGeVPJTyi41JASwyTKzhfUX-cwltnXBK_xTwraFup62QW_nzEUxBBX93Mb

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

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

except end verticals.

3-4-7 -0-10-8 0-10-8



LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL 1.15 Vert(LL) 0.01 >999 240 197/144 **TCLL** TC 0.13 4-5 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.08 Vert(CT) -0.01 4-5 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 3 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-MR Weight: 9 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

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

Max Uplift 3=-44(LC 12), 5=-32(LC 12) Max Grav 3=95(LC 1), 4=59(LC 3), 5=225(LC 1)

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

- 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) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-3-11 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 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.



July 2,2021



Job Truss Truss Type Qty Summit/129 Manor 2851482 J12 Jack-Open Girder Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SER PROPERTY NEWSFELDS LEE'S SUMMIT, MISSOURI

0-0-

Scale = 1:13.2

ID:tjnOHGeVPJTyi41JASwyTKzhfUX-cwltnXBK_xTwraFup62QV/LlyyUv_BX93Mbs 3-11-4 1-3-9

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

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

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

0-11-4

4x6 || 6.00 12 2x4 || 3x4 = 0-3-12 ⁸ 2x4 || Special

2-7-11

Special

	2x4 =	=			
	H	2-9-8 2-9-8		3-11-4 1-1-12	-
LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI.	DEFL. in (loc) Vert(LL) -0.01 7		PLATES GRIP MT20 197/144
TCDL 10.0 BCLL 0.0 BCDL 10.0	Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	BC 0.22	Vert(CT) -0.03 7	7 >999 180 4 n/a n/a	Weight: 13 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

0-10-8

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

REACTIONS. 4=Mechanical, 5=Mechanical, 9=0-3-8 (size) Max Horz 9=52(LC 8)

Max Uplift 4=-33(LC 5), 5=-22(LC 8), 9=-48(LC 8) Max Grav 4=121(LC 22), 5=95(LC 1), 9=277(LC 1)

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

TOP CHORD 2-9=-253/65

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.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5, 9.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 102 lb down and 104 lb up at 2-7-11 on top chord, and 39 lb down at 2-5-15 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, 3-4=-70, 8-9=-20, 7-8=-20, 5-6=-20

Concentrated Loads (lb) Vert: 3=-47(B) 8=-29(B)



July 2,2021



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 chorembers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



Job Truss Truss Type Qty Summit/129 Manor 2851482 J13 Jack-Open 3 Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, I ic. Builders FirstSource (Valley Center), Valley Center, KS - 67147,

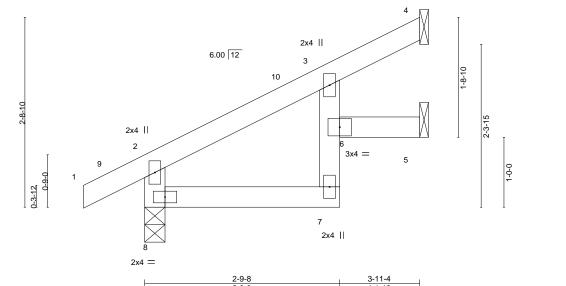
RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

ID:tjnOHGeVPJTyi41JASwyTKzhfUX-47sF?tCylFbn kq5NqZ(2,J)NylGgw

Thu 🔥

3-11-4 0-10-8 2-9-8 1-1-12

Scale = 1:16.5



						2-9-8			<u>'</u>	1-1-12	<u>'</u>		
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		D	EFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.11	V	/ert(LL)	-0.01	6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.13	V	/ert(CT)	-0.01	7	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	H	lorz(CT)	-0.01	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-MR							Weight: 13 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS

4=Mechanical, 5=Mechanical, 8=0-3-8 (size) Max Horz 8=78(LC 12)

Max Uplift 4=-33(LC 12), 5=-22(LC 12), 8=-26(LC 12) Max Grav 4=87(LC 1), 5=71(LC 1), 8=249(LC 1)

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) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-10-8 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
- 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) 8 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) 4, 5, 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.



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

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

except end verticals.



Job Truss Truss Type Qty Summit/129 Manor 2851482 J14 Jack-Open Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, I ic. Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SER POSES LEE'S SUMMIT. MISSOURI

8.430 s Jun 2 2021 MiTek Industries, Inc. Thu by 11/5/132 3021 Page 1 ID:tjnOHGeVPJTyi41JASwyTKzhfUX-YJQdCDCbWZje5 PHwX4ubms/jiHcof Rfwy LeDJ20F 9

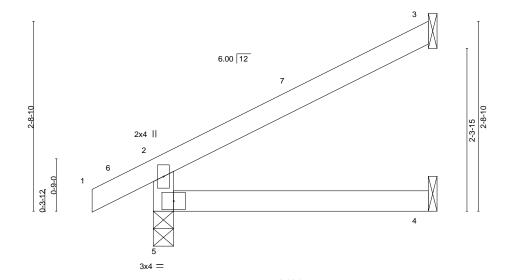
Structural wood sheathing directly applied or 3-11-4 oc purlins,

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

except end verticals.

3-11-4 3-11-4 -0-10-8 0-10-8

Scale = 1:16.5



				· ·		3-11-4						
LOADING (p	psf) 25.0	SPACING- Plate Grip DOL	2-0-0 1.15	CSI.	0.20	DEFL. Vert(LL)	in -0.01	(loc) 4-5	l/defl >999	L/d 240	PLATES MT20	GRIP 197/144
TCDL 1	0.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.01	4-5 4-5	>999	180	WITZO	197/144
	0.0	Rep Stress Incr Code IRC2018/TF	YES PI2014	WB Matri	0.00 x-MR	Horz(CT)	-0.01	3	n/a	n/a	Weight: 11 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

> 3=Mechanical, 4=Mechanical, 5=0-3-8 (size) Max Horz 5=78(LC 12) Max Uplift 3=-58(LC 12), 5=-26(LC 12)

Max Grav 3=114(LC 1), 4=70(LC 3), 5=249(LC 1)

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) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-10-8 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 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.





Job Truss Truss Type Qty Summit/129 Manor 2851482 J15 Jack-Open Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Builders FirstSource (Valley Center),

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVES

LEE'S SUMMIT. MISSOURI

Scale = 1:16.5

ID:tjnOHGeVPJTyi41JASwyTKzhfUX-0V_?QZDDHssVi2_

Thu TUEc77 PUzhy6OuV3916mmz0Rd

Valley Center, KS - 67147,

0-10-8 2-8-5 1-2-15

except end verticals.

2x4 || 6.00 12 3 1-8-10 9 2-3-15 2x4 || 2 6 5x8 = 5 1-0-0 0-3-12 5.00 12 -

			8-5	<u> </u>	1-2-15			
LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.16	DEFL. i Vert(LL) 0.0	n (loc) 2 6-7	l/defl >999	L/d 240	PLATES MT20	GRIP 197/144
TCDL 10.0 BCLL 0.0 BCDL 10.0	Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	BC 0.13 WB 0.01 Matrix-MP	Vert(CT) -0.0 Horz(CT) -0.0		>999 n/a	180 n/a	Weight: 12 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

2x4 SPF No.2

4=Mechanical, 5=Mechanical, 7=0-3-8 (size) Max Horz 7=77(LC 12) Max Uplift 4=-36(LC 12), 5=-19(LC 12), 7=-25(LC 12)

Max Grav 4=91(LC 1), 5=67(LC 1), 7=249(LC 1)

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) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-10-8 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
- 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) 4, 5, 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.



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

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

July 2,2021



Job Truss Truss Type Qty Summit/129 Manor 2851482 J16 Jack-Open 5

Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SER POSE 2

LEE'S SUMMIT, MISSOURI

Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc.

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

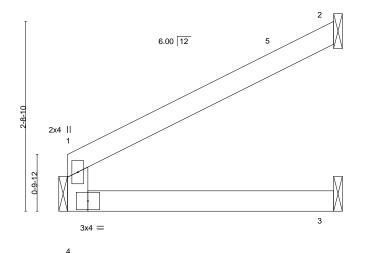
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

Thu ID:tjnOHGeVPJTyi41JASwyTKzhfUX-0V_?QZDDHssVi2_TJEc77_PTDry?Dul

3-9-12 3-9-12

Scale = 1:16.5



		-	3-9-12		
LOADING (ps	,	CSI.	DEFL. in (loc) I/d		PLATES GRIP
TCLL 25.	0 Plate Grip DOL 1.15	TC 0.20	Vert(LL) -0.01 3-4 >9	99 240	MT20 197/144
TCDL 10.	0 Lumber DOL 1.15	BC 0.14	Vert(CT) -0.02 3-4 >9	99 180	
BCLL 0. BCDL 10.		WB 0.00 Matrix-MR	Horz(CT) -0.01 2 I	n/a n/a	Weight: 10 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

Builders FirstSource (Valley Center),

WEBS 2x4 SPF No.2

(size)

Max Horz 4=59(LC 12)

Max Uplift 2=-58(LC 12), 4=-3(LC 12)

Max Grav 2=116(LC 1), 3=69(LC 3), 4=162(LC 1)

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

2=Mechanical, 3=Mechanical, 4=Mechanical

- 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) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 3-9-0 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
- 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, 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.





Job Truss Truss Type Qty Summit/129 Manor 2851482 J17 Jack-Open Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, I ic. Builders FirstSource (Valley Center), Valley Center, KS - 67147,

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

8.430 s Jun 2 2021 MiTek Industries, I ic. Thu by 11/5; 35-3021 Page in ID:tjnOHGeVPJTyi41JASwyTKzhfUX-UiXNdvEr2A_MKCZg2y(Mgtxc/15t Oyb) jok (0) j 2-8-0

2-8-0

Rigid ceiling directly applied.

Structural wood sheathing directly applied, except end verticals.

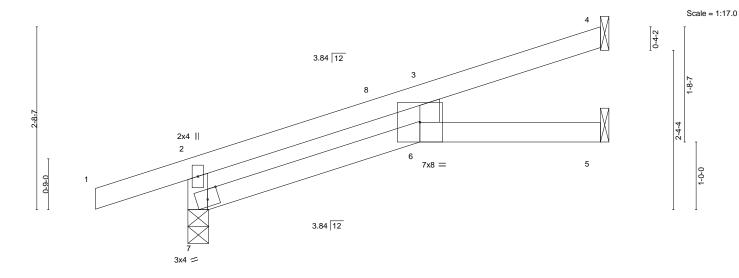


Plate Offsets (X,	Plate Offsets (X,Y) [7:0-2-0,Edge]										
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl	L/d PLATES GRIP							
TCLL 25.0	Plate Grip DOL 1.15	TC 0.37	Vert(LL) 0.10 6-7 >688	240 MT20 197/144							
TCDL 10.0	Lumber DOL 1.15	BC 0.39	Vert(CT) -0.14 6-7 >506	180							
BCLL 0.0	Rep Stress Incr YES	WB 0.02	Horz(CT) 0.04 5 n/a	n/a							
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 17 lb FT = 20%							

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

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

1-4-6

Max Horz 7=85(LC 8) Max Uplift 7=-92(LC 8), 4=-50(LC 12), 5=-12(LC 12) Max Grav 7=385(LC 1), 4=156(LC 1), 5=95(LC 1)

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

TOP CHORD 2-7=-292/191

- 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) -1-4-6 to 2-10-8, Exterior(2R) 2-10-8 to 6-0-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 7, 4, 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.
- 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.



July 2,2021



Job Truss Truss Type Qty Summit/129 Manor 2 2851482 J18 Jack-Open Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, I ic. Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SER PROPERTY LEE'S SUMMIT. MISSOURI

Scale = 1:16.6

Thu 🔥 1/5/:36-2071-Page ID:tjnOHGeVPJTyi41JASwyTKzhfUX-zu5mrFFTpU6DyN 7sbfebNPJqfVqKspCbyNZJqez0Fjb

4-0-0 2-3-8 0-10-8 1-8-8

6.00 12 3 0-6-2x4 || 2 7x8 / 5 1-0-0 0-6-0 0-3-12

4-0-0

BRACING-

TOP CHORD

BOT CHORD

Plate Of	fsets (X,Y)	[6:0-4-0,0-2-4]										
LOADIN	IG (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.Ó	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	0.02	` 6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	ВС	0.15	Vert(CT)	-0.02	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/T	PI2014	Matri	x-AS						Weight: 12 lb	FT = 20%

6.00 12

LUMBER-

REACTIONS.

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

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

Max Horz 7=78(LC 12)

Max Uplift 4=-44(LC 12), 5=-13(LC 12), 7=-25(LC 12) Max Grav 4=100(LC 1), 5=61(LC 1), 7=252(LC 1)

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) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2x4 /

- 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) 4, 5, 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.

July 2,2021



Job Truss Truss Type Qty Summit/129 Manor 2851482 J19 Jack-Open

Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SER POSES LEE'S SUMMIT. MISSOURI

Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc.

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

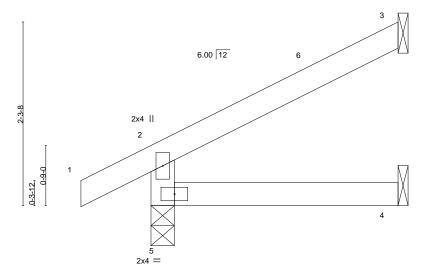
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

Thu ID:tjnOHGeVPJTyi41JASwyTKzhfUX-zu5mrFFTpU6DyM7sbfebUPJrgVyNsoObxMZjcez0Fjb

0-10-8

Scale = 1:14.4



3-1-0

BRACING-

TOP CHORD

BOT CHORD

3-1-0 3-1-0

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 0.11	Vert(LL) -0.00 4-5 >999	240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.08	Vert(CT) -0.01 4-5 >999	180	
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.01 3 n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MR			Weight: 9 lb FT = 20%

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

Builders FirstSource (Valley Center),

3=Mechanical, 4=Mechanical, 5=0-3-8 (size) Max Horz 5=62(LC 12)

Max Uplift 3=-45(LC 12), 5=-23(LC 12) Max Grav 3=85(LC 1), 4=54(LC 3), 5=214(LC 1)

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) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-0-4 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 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.





Job Truss Truss Type Qty Summit/129 Manor 2851482 J20 Jack-Open

Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, I

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

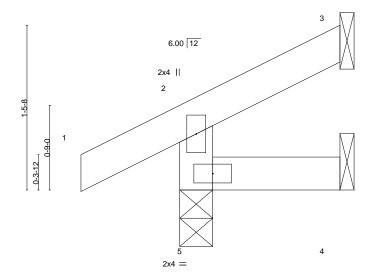
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

Thu ID:tjnOHGeVPJTyi41JASwyTKzhfUX-R4f82aF5anE4ZVi29NvqL10hy?ZpFex1UrM5z0Fja

0-10-8 1-5-0

Scale = 1:10.2



1-5-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL 1.15 TC Vert(LL) 0.00 >999 240 197/144 **TCLL** 0.07 5 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.02 Vert(CT) -0.00 5 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.00 3 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-MR Weight: 5 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

Builders FirstSource (Valley Center),

3=Mechanical, 4=Mechanical, 5=0-3-8 (size) Max Horz 5=33(LC 9)

Max Uplift 3=-19(LC 12), 4=-1(LC 9), 5=-21(LC 12) Max Grav 3=22(LC 1), 4=22(LC 3), 5=157(LC 1)

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) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4, 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.





Job Truss Truss Type Qty Summit/129 Manor 2851482 J21 Diagonal Hip Girder Builders FirstSource (Valley Center), Valley Center, KS - 67147,

3-8-9

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVES LEE'S SUMMIT, MISSOURI

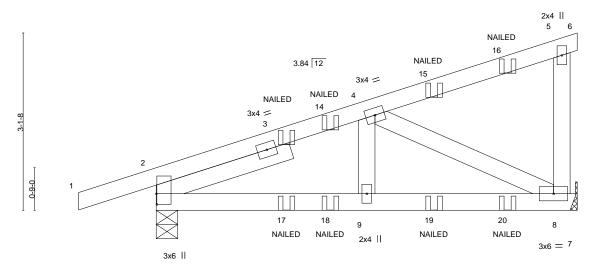
Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, I ic. Thu 🔥 ID:tjnOHGeVPJTyi41JASwyTKzhfUX-vGDWFwGjL5MkBfHFj413 qZ9il/0K

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

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

3-8-9

Scale = 1:20.3



3-8-9 Plate Offsets (X Y)-- [2:0-2-4 0-0-2]

BRACING-

TOP CHORD

BOT CHORD

T late Off	3013 (A, I)	[2.0-2-4,0-0-2]			
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.25	Vert(LL) -0.01 8-9 >999 240	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.20	Vert(CT) -0.02 8-9 >999 180	
BCLL	0.0	Rep Stress Incr NO	WB 0.12	Horz(CT) 0.00 8 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-MP		Weight: 30 lb FT = 20%

LUMBER-

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

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

Max Horz 2=108(LC 4)

Max Uplift 2=-99(LC 4), 8=-104(LC 8) Max Grav 2=438(LC 1), 8=400(LC 1)

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

1-4-6

TOP CHORD 2-4=-417/60

BOT CHORD 2-9=-117/412 8-9=-117/412

WEBS 4-8=-456/129

- 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 100 lb uplift at joint(s) 2 except (jt=lb) 8=104.
- 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 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, 7-10=-20

Concentrated Loads (lb)

Vert: 15=-0(B) 16=-57(F) 17=3(B) 18=-1(F) 19=-5(B) 20=-28(F)



July 2,2021





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 systems, see

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

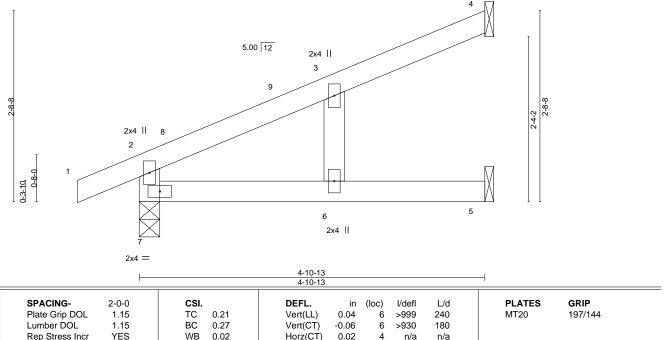


Job Truss Truss Type Qty Summit/129 Manor 2851482 J22 Jack-Open Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-vGDWFwGjL5MxBfHFj4g1lgZ9GlHzkie

2-9-3 2-9-3

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

Scale = 1:16.3



LUMBER-

LOADING (psf)

TCLL

TCDL

BCLL

BCDL

25.0

10.0

0.0

10.0

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, except end verticals.

Weight: 15 lb

FT = 20%

Rigid ceiling directly applied.

4-10-13

2-1-10

REACTIONS.

4=Mechanical, 5=Mechanical, 7=0-3-8 (size) Max Horz 7=80(LC 12) Max Uplift 4=-44(LC 12), 5=-14(LC 12), 7=-38(LC 12) Max Grav 4=120(LC 1), 5=83(LC 1), 7=290(LC 1)

Code IRC2018/TPI2014

0-10-8

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) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-10-1 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

Matrix-AS

- 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) 4, 5, 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.



July 2,2021



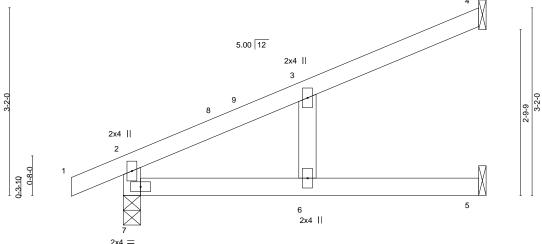
Job Truss Truss Type Qty Summit/129 Manor 2851482 J23 Jack-Open 2 Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Builders FirstSource (Valley Center), Valley Center, KS - 67147,

3-1-5

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SER PROPERTY LEE'S SUMMIT, MISSOURI

8.430 s Jun 2 2021 MiTek Industries, I ic. Thu by 115739 3021 10:tjnOHGeVPJTyi41JASwyTKzhfUX-NTnuTGHL6PUoppsRHoBly 11E/bl3pre-byyZz0Fly 2-10-11

Scale = 1:19.4



LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL 1.15 Vert(LL) 0.09 >768 240 197/144 **TCLL** TC 0.32 6 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.42 Vert(CT) -0.14 6 >482 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.02 Horz(CT) 0.03 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-AS Weight: 17 lb FT = 20%

LUMBER-**BRACING-**

0-10-8

TOP CHORD 2x4 SPF No 2 TOP CHORD Structural wood sheathing directly applied, except end verticals. BOT CHORD 2x4 SPF No.2 BOT CHORD Rigid ceiling directly applied. WEBS 2x4 SPF No.2

REACTIONS. 4=Mechanical, 5=Mechanical, 7=0-3-8 (size) Max Horz 7=96(LC 12)

Max Uplift 4=-57(LC 12), 5=-14(LC 12), 7=-43(LC 12)

Max Grav 4=154(LC 1), 5=100(LC 1), 7=338(LC 1)

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

- 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) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-11-4 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
- 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) 4, 5, 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.



July 2,2021



Job Truss Truss Type Qty Summit/129 Manor 2851482 J24 Roof Special Girder

Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SER PRESENT LEE'S SUMMIT. MISSOURI

Scale = 1:14.0

Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, I ic. 8.430 s Jun 2 2021 MiTek Industries, I c. Thu vi + 1/5/4/2021 Page 1 ID:tjnOHGeVPJTyi41JASwyTKzhfUX-rfLGgcl_ticfQzFdqViXNFf0gbvfoc0 0 3 1/2 20 1 6-0-0

3-4-13

5x12 MT20HS ||

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

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

except end verticals.

4x6 || 2 5.00 12 2-4-3 0-7-4 LUS28 3 4x6 = LUS26

6-0-0

BRACING-

TOP CHORD

BOT CHORD

Plate Offsets (X,Y)	[2:0-3-9,Edge], [3:Edge,0-3-8]			
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 0.66	Vert(LL) -0.06 5 >999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.52	Vert(CT) -0.11 5 >620 180	MT20HS 148/108
BCLL 0.0	Rep Stress Incr NO	WB 0.00	Horz(CT) 0.00 3 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP		Weight: 24 lb FT = 20%

LUMBER-

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

Builders FirstSource (Valley Center),

WEBS 2x4 SPF No.2

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

Max Horz 4=65(LC 7)

Max Uplift 3=-153(LC 8), 4=-87(LC 8) Max Grav 3=1159(LC 2), 4=1058(LC 2)

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

TOP CHORD 1-2=-318/42 **BOT CHORD** 1-3=-49/302

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) All plates are MT20 plates unless otherwise indicated.
- 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) 4 except (jt=lb) 3 = 153
- 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) Use Simpson Strong-Tie LUS28 (6-10d Girder, 4-10d Truss, Single Ply Girder) or equivalent at 2-0-12 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.
- 8) Use Simpson Strong-Tie LUS26 (4-10d Girder, 4-10d Truss, Single Ply Girder) or equivalent at 4-0-12 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.
- 9) Fill all nail holes where hanger is in contact with lumber.
- 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, 1-4=-90, 1-3=-20 Concentrated Loads (lb)

Vert: 1=-830(F) 7=-848(F)



July 2,2021



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 chorembers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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

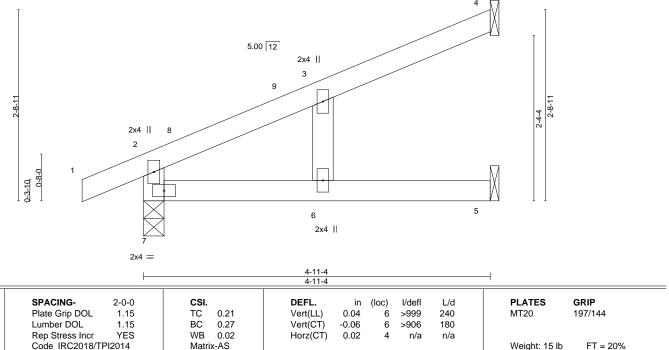


Job Truss Truss Type Qty Summit/129 Manor AS NOTED FOR PLAN REVIEW DEVELOPMENT SER PROPERTY 2851482 J25 Jack-Open LEE'S SUMMIT, MISSOURI Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, I ic. 8.430 s Jun 2 2021 MiTek Industries, Inc. Thu http://doi.org/10.110/10.1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

2-6-11

RELEASE FOR CONSTRUCTION

Scale = 1:16.4



BRACING-

TOP CHORD

BOT CHORD

2-4-9

LUMBER-

REACTIONS.

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

25.0

10.0

0.0

10.0

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

BOT CHORD WEBS 2x4 SPF No.2

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

0-10-8

Max Horz 7=80(LC 12)

Max Uplift 4=-47(LC 12), 5=-12(LC 12), 7=-38(LC 12) Max Grav 4=124(LC 1), 5=81(LC 1), 7=292(LC 1)

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) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-10-8 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
- 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) 4, 5, 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.

July 2,2021





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 chorembers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



Job Truss Truss Type Qty Summit/129 Manor 2851482 J26 Jack-Open

Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVESSES

LEE'S SUMMIT, MISSOURI

Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, I ic.

Structural wood sheathing directly applied or 2-2-6 oc purlins,

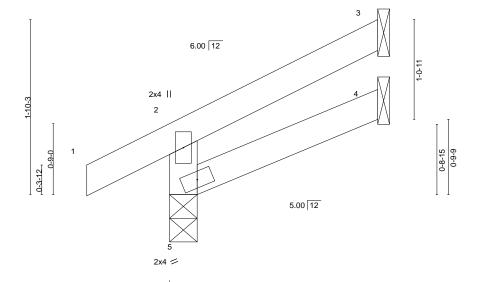
Rigid ceiling directly applied or 6-0-0 oc bracing.

except end verticals.

8.430 s Jun 2 2021 MiTek Industries, Inc. Thu 19 + 151.41 2021 Page
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2-2-6 2-2-6 0-10-8

Scale = 1:12.2



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	10 0.07	Vert(LL) -0.00 5 >999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.05	Vert(CT) -0.00 4-5 >999 180	
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MR		Weight: 7 lb $FT = 20\%$

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

Builders FirstSource (Valley Center),

WEBS 2x4 SPF No.2

> 3=Mechanical, 4=Mechanical, 5=0-3-8 (size) Max Horz 5=45(LC 12)

Max Uplift 3=-32(LC 12), 5=-20(LC 12) Max Grav 3=54(LC 1), 4=36(LC 3), 5=179(LC 1)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 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.







Job Truss Truss Type Qty Summit/129 Manor 2851482 J27 JACK-OPEN

Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, I ic.

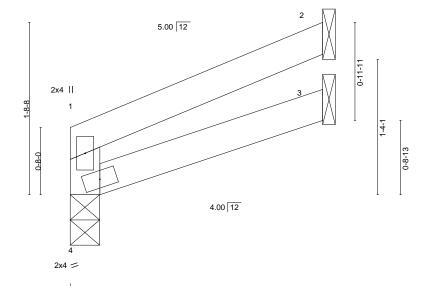
Structural wood sheathing directly applied or 2-6-0 oc purlins,

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

except end verticals.

8.430 s Jun 2 2021 MiTek Industries, Inc. Thu by +1/51.47.2021 Page
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Scale = 1:11.4



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 0.08	Vert(LL) -0.00 3-4 >999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.05	Vert(CT) -0.00 3-4 >999 180	
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 2 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MR		Weight: 7 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. 2=Mechanical, 3=Mechanical, 4=0-3-8

(size)

Builders FirstSource (Valley Center),

Max Horz 4=32(LC 9)

Max Uplift 2=-34(LC 12), 4=-5(LC 12)

Max Grav 2=75(LC 1), 3=44(LC 3), 4=103(LC 1)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 4 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) 2, 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.



July 2,2021



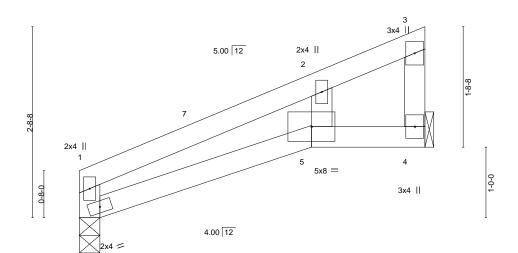
Job Truss Truss Type Qty Summit/129 Manor 2851482 J28 MONOPITCH Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, I ic. Builders FirstSource (Valley Center), Valley Center, KS - 67147, Thu 🔥

3-3-8 3-3-8

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SER® 254 LEE'S SUMMIT, MISSOURI

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Scale = 1:16.3



4-10-13

1-7-5

4-10-13

Rigid ceiling directly applied.

Structural wood sheathing directly applied, except end verticals.

			1		3-3-8		'		1-7-5	ı		
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	0.19	Vert(LL)	-0.02	5-6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.03	5-6	>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/TI	PI2014	Matri	x-AS						Weight: 14 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

REACTIONS. 4=Mechanical, 6=0-3-8 (size)

Max Horz 6=76(LC 9)

Max Uplift 4=-50(LC 12), 6=-25(LC 12) Max Grav 4=207(LC 1), 6=207(LC 1)

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) 0-1-12 to 3-5-4, Interior(1) 3-5-4 to 4-9-1 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
- 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) 6 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) 4, 6.
- 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.



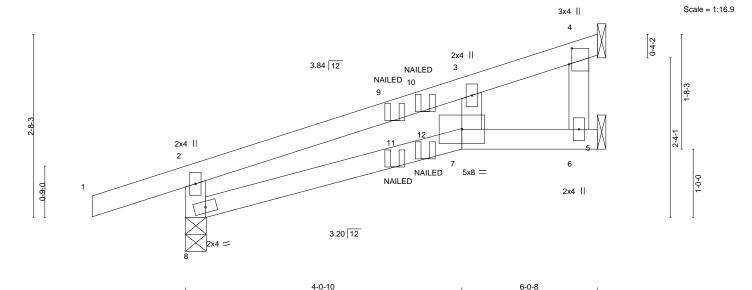


Job Truss Truss Type Qty Summit/129 Manor 2851482 J29 Jack-Open Girder Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, I ic.

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SER PRESES LEE'S SUMMIT, MISSOURI

Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:tjnOHGeVPJTyi41JASwyTKzhfUX-FE0PJeKs9d_DHQADWdGERthwEJ_v?.tcozmAakzuR 6-0-8 1-4-6 4-0-10 1-11-13

Thu 🔥



4-0-10 Plate Offsets (X,Y)--[4:0-2-13,0-0-8] SPACING-L/d LOADING (psf) 2-0-0 CSI in (loc) I/def **PLATES** GRIP Plate Grip DOL TCLL 25.0 1.15 TC 0.51 Vert(LL) -0.07 7-8 >987 240 197/144 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.28 Vert(CT) -0.127-8 >546 180 **BCLL** 0.0 Rep Stress Incr NO WB 0.02 Horz(CT) 0.04 n/a n/a BCDL Code IRC2018/TPI2014 FT = 20% 10.0 Matrix-MS Weight: 18 lb

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

> (size) 8=0-3-11, 6=Mechanical, 4=Mechanical Max Horz 8=82(LC 4) Max Uplift 8=-91(LC 4), 6=-12(LC 8), 4=-44(LC 8) Max Grav 8=376(LC 1), 6=84(LC 1), 4=163(LC 1)

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

TOP CHORD 2-8=-313/103

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) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6, 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.
- 8) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 9) "NAILED" indicates 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

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

Concentrated Loads (lb)

Vert: 11=-6(F) 12=0(B)



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

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

except end verticals.







Job Truss Truss Type Qty Summit/129 Manor 2851482 J30 Jack-Open Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES6 LEE'S SUMMIT. MISSOURI

Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, I ic. 8.430 s Jun 2 2021 MiTek Industries, I Ic. Thu wild 11/5/14/18071 Page ID:tjnOHGeVPJTyi41JASwyTKzhfUX-kQanW_LUwx64valD3LnTX5pCg/N/kkdDzwyt/jesz/lpT

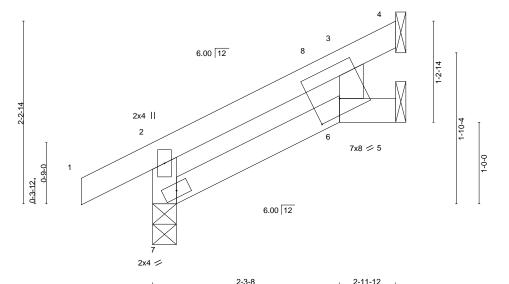
Structural wood sheathing directly applied or 2-11-12 oc purlins,

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

except end verticals.

2-11-12 0-10-8 2-3-8 0-8-4

Scale = 1:14.1



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

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 0.09	Vert(LL) 0.01 6-7 >999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.07	Vert(CT) -0.01 6-7 >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/TPI2014	Matrix-MP		Weight: 10 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

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

Max Horz 7=60(LC 12)

Max Uplift 4=-31(LC 12), 5=-12(LC 12), 7=-22(LC 12) Max Grav 4=69(LC 1), 5=43(LC 1), 7=209(LC 1)

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

- 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) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 2-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 4, 5, 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.





RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Summit/129 Manor AS NOTED FOR PLAN REVIEW DEVELOPMENT SER PROPERTY 2851482 J31 Jack-Open LEE'S SUMMIT, MISSOURI Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, I ic. 8.430 s Jun 2 2021 MiTek Industries, Inc. Thu by +1/51/4/2021-Pag ID:tjnOHGeVPJTyi41JASwyTKzhfUX-kQanW_LUwx64va O3LnTX51CriQskd NzwyVije6z08 Builders FirstSource (Valley Center), Valley Center, KS - 67147, 2-6-0

0-10-8 2-6-0 Scale = 1:11.4 5.00 12 2-6-0 2x4 || 2 0-11-1 0-10-7 0-3-10 5.00 12 2x4 / 2-5-14 SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) Plate Grip DOL 1.15 Vert(LL) -0.00 >999 240 197/144 TC 0.07 4-5 MT20

-0.00

-0.00

4-5

3

>999

except end verticals.

n/a

180

n/a

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

Structural wood sheathing directly applied or 2-6-0 oc purlins,

Weight: 8 lb

FT = 20%

LUMBER-

LOADING (psf)

TCLL

TCDL

BCLL

BCDL

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

WEBS 2x4 SPF No.2

25.0

10.0

0.0

10.0

REACTIONS. 3=Mechanical, 4=Mechanical, 5=0-3-8 (size) Max Horz 5=42(LC 12)

Lumber DOL

Rep Stress Incr

Code IRC2018/TPI2014

Max Uplift 3=-32(LC 12), 5=-28(LC 8) Max Grav 3=65(LC 1), 4=42(LC 3), 5=191(LC 1)

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) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 2-5-4 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

ВС

WB

Matrix-MR

0.04

0.00

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

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

1.15

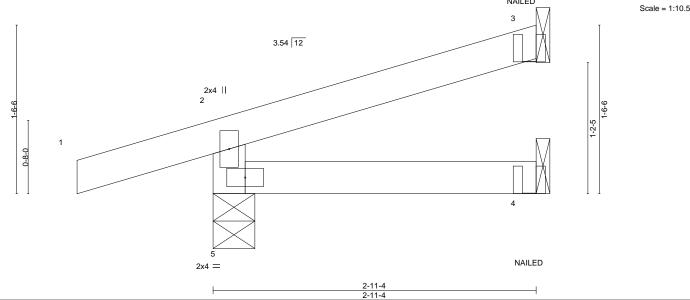
YES

- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 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.





RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Summit/129 Manor AS NOTED FOR PLAN REVIEW DEVELOPMENT SER PRESENT 2851482 JD01 Jack-Open 2 LEE'S SUMMIT, MISSOURI Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Thu 8.430 s Jun 2 2021 MiTek Industries, I ic. Thu and 1154 45 2021 Rage ID:tjnOHGeVPJTyi41JASwyTKzhfUX-Cd89jKM6hFEx KkJbd2l 4l Myq7ktT dzwf Gedzol 13 Builders FirstSource (Valley Center), Valley Center, KS - 67147, 2-11-4 1-2-14 2-11-4 NAILED



LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL 1.15 Vert(LL) -0.00 240 197/144 **TCLL** TC 0.12 4-5 >999 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.06 Vert(CT) -0.01 4-5 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 3 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-MR Weight: 9 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

(size)

WEBS 2x4 SPF No.2

> 5=0-4-9, 3=Mechanical, 4=Mechanical Max Horz 5=43(LC 8) Max Uplift 5=-76(LC 8), 3=-43(LC 12)

Max Grav 5=244(LC 1), 3=56(LC 1), 4=49(LC 3)

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 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) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 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) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 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=-70, 4-5=-20

Concentrated Loads (lb) Vert: 3=18(B) 4=4(B)



Structural wood sheathing directly applied or 2-11-4 oc purlins,

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

except end verticals.



Job Truss Truss Type Qty Summit/129 Manor 2851482 JD02 Jack-Open 2 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES9 LEE'S SUMMIT, MISSOURI

Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, I ic. Thu 🔥

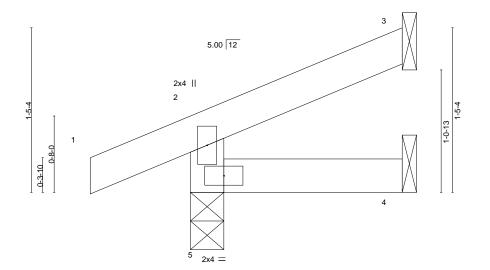
Structural wood sheathing directly applied or 1-10-3 oc purlins,

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

except end verticals.

ID:tjnOHGeVPJTyi41JASwyTKzhfUX-gpiXxfMkSYMo8uu BmpxdWyYdXAfCKtogk_qp3z0FjR 1-10-3 0-10-8 1-10-3

Scale = 1:10.1



1-10-3 1-10-3

BOT CHORD

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 0.07	Vert(LL) -0.00 5 >999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT) -0.00 5 >999 180	
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 3 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MR		Weight: 6 lb $FT = 20\%$

LUMBER-BRACING-TOP CHORD

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

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

Max Horz 5=34(LC 12) Max Uplift 3=-23(LC 12), 5=-31(LC 8)

Max Grav 3=42(LC 1), 4=30(LC 3), 5=169(LC 1)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 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.



July 2,2021



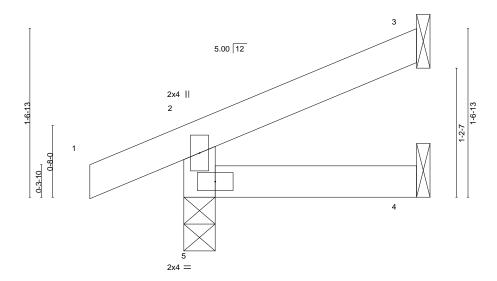
Job Truss Truss Type Qty Summit/129 Manor 2851482 JD03 Jack-Open Job Reference (optional)
8.430 s Jun 2 2021 MiTek Industries, I ic. Thu Builders FirstSource (Valley Center), Valley Center, KS - 67147,

0-10-8

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICESO LEE'S SUMMIT, MISSOURI

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Scale = 1:10.7



BRACING-

TOP CHORD

BOT CHORD

2-2-0 2-2-0

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	0.07	Vert(LL)	-0.00	5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	4-5	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-MR						Weight: 7 lb	FT = 20%

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

> 3=Mechanical, 4=Mechanical, 5=0-3-8 (size) Max Horz 5=38(LC 12) Max Uplift 3=-27(LC 12), 5=-30(LC 8)

Max Grav 3=52(LC 1), 4=35(LC 3), 5=178(LC 1)

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) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 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.



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

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

except end verticals.

July 2,2021



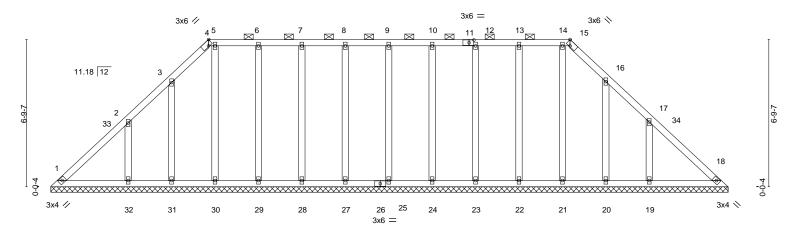
Job Truss Truss Type Qty Summit/129 Manor **GABLE** 2851482 LG1 Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SER PROPERTY LEE'S SUMMIT, MISSOURI

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Thu _t**/**Kl/²g[e2H

Scale = 1:53.1



υ-ψ <u>-</u> -						31-Z-3						
0-0-4	4					31-2-5						'
Plate Off	sets (X,Y)	[4:0-2-6,Edge], [11:0-2-10	0,0-1-8], [15:E	dge,0-2-9]								
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.01	18	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-S						Weight: 157 lb	FT = 20%

31-2-9

LUMBER-BRACING-

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

BOT CHORD 2x4 SPF No.2 2-0-0 oc purlins (6-0-0 max.): 4-15. **OTHERS** 2x4 SPF No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 31-2-5. (lb) -Max Horz 1=-152(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 31, 30, 29, 28, 27, 25, 24, 23, 22, 20 except 32=-159(LC 12),

19=-163(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 18, 31, 30, 29, 28, 27, 25, 24, 23, 22, 21, 20 except

32=314(LC 19), 19=320(LC 20)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-7 to 3-7-0, Interior(1) 3-7-0 to 7-3-6, Exterior(2R) 7-3-6 to 11-7-0, Interior(1) 11-7-0 to 23-11-3, Exterior(2R) 23-11-3 to 28-2-2, Interior(1) 28-2-2 to 30-10-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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, 31, 30, 29, 28, 27, 25, 24, 23, 22, 20 except (jt=lb) 32=159, 19=163.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





Job Truss Truss Type Qty Summit/129 Manor 2851482 LG2 **GABLE**

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES2 LEE'S SUMMIT. MISSOURI

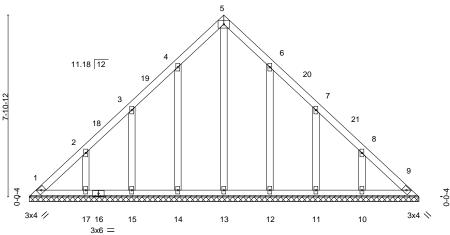
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, I ic. B.430 s Jun 2 2021 MiTek Industries, Ic. Thu 1 115142 2021 Page 1 ID:tjnOHGeVPJTyi41JASwyTKzhfUX-4OOgZhPdlTkN?LdM; uNeE8 440k68PeFjWyJyngz(RjD

16-11-6 8-5-11 8-5-11

4x6 =

Scale = 1:50.0



16-11-6

Plate Offsets (X,Y)	[6:0-0-0,0-0-0], [7:0-0-0,0-0-0], [8:0-0-0,0-0-0]

LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.06	DEFL. in Vert(LL) n/a	(loc) I/defl L/d - n/a 999	PLATES GRIP MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.04	Vert(CT) n/a	- n/a 999	
BCLL 0.0	Rep Stress Incr YES	WB 0.14	Horz(CT) 0.00	9 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S			Weight: 78 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 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. **OTHERS** 2x4 SPF No.2

REACTIONS. All bearings 16-11-2.

(lb) -Max Horz 1=177(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 15, 14, 12, 11 except 17=-112(LC 12), 10=-112(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 9, 17, 15, 14, 13, 12, 11, 10

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-7 to 3-4-7, Interior(1) 3-4-7 to 8-5-11, Exterior(2R) 8-5-11 to 11-5-11, Interior(1) 11-5-11 to 16-6-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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, 9, 15, 14, 12, 11 except (jt=lb) 17=112, 10=112.
- 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.





Job Truss Truss Type Qty Summit/129 Manor 2851482 LG3 **GABLE**

Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SER PROPERTY LEE'S SUMMIT. MISSOURI

Scale = 1:54.4

Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, I ic. Thu 🔥 ID:tjnOHGeVPJTyi41JASwyTKzhfUX-0nVQ_NQtH5?5Ffnk_JPtKzclWYIBYj_D/bs//zVRM 23-0-6

13-4-2

3x6 // 3x4 || ⊠³⁰⁹ 10 11 × 31 12 1314 6 \boxtimes \bowtie \bowtie 11.18 12 M M X M M 28 4-0-0 27 26 25 24 23 22 21 20 19 18 17 1615 3x6 = 3x4 =

0-0-4 23-0-6

Plate Offsets (X	Y) [6:0-2-6,Edge], [15:Edge,0-	1-8]								
LOADING (psf		2-0-0 CSI		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15 TC	0.37	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15 BC	0.19	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr	YES WB	0.15	Horz(CT)	-0.00	15	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2	014 Mat	rix-S						Weight: 153 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, and 2-0-0 oc purlins (6-0-0 max.): 6-14. **WEBS** 2x4 SPF No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. **OTHERS** 2x4 SPF No.2 **WEBS** 14-15, 7-22, 8-21, 9-20, 10-19, 11-18, 1 Row at midpt

12-17, 13-16

REACTIONS. All bearings 23-0-2.

Builders FirstSource (Valley Center),

Max Horz 1=312(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 26, 23, 22, 21, 20, 19, 18, 17 except 15=-133(LC 11),

27=-111(LC 12), 25=-105(LC 12), 16=-133(LC 8)

Max Grav All reactions 250 lb or less at joint(s) 1, 15, 27, 26, 25, 23, 22, 21, 20, 19, 18, 17, 16

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

TOP CHORD 1-2=-438/289, 2-3=-368/246, 3-4=-300/211

- 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) 0-4-7 to 3-4-7, Interior(1) 3-4-7 to 9-8-3, Exterior(2R) 9-8-3 to 13-11-2, Interior(1) 13-11-2 to 22-10-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 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) 1, 26, 23, 22, 21, 20, 19, 18, 17 except (jt=lb) 15=133, 27=111, 25=105, 16=133
- 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.



July 2,2021





Job Truss Truss Type Qty Summit/129 Manor 2851482 LG4 **GABLE**

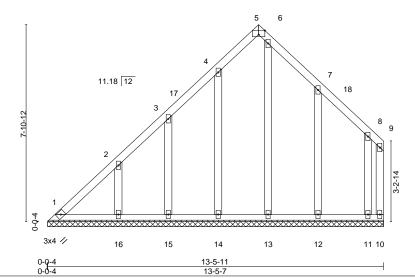
Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SER PROPESS LEE'S SUMMIT. MISSOURI

Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Thu 8.430 s Jun 2 2021 MiTek Industries, I ic. Thu to 11/5/15/2021 Page 1 ID:tjnOHGeVPJTyi41JASwyTKzhfUX-Vz3pBjRV2O7ytt MxX0w si 8/vy/Y 2 19/1/82/1/95 i 8/2/1/95

8-5-11 5-0-0

> Scale = 1:46.2 3x6 =



_Plate Off	sets (X,Y)	[5:0-3-0,Edge]										
LOADIN	\(\(\)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.23	Horz(CT)	-0.00	10	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	12014	Matri	x-S						Weight: 70 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. **OTHERS** 2x4 SPF No.2

REACTIONS. All bearings 13-5-7.

Builders FirstSource (Valley Center),

Max Horz 1=214(LC 11) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 10, 15, 14, 13 except 1=-100(LC 8), 16=-124(LC 12), 12=-133(LC

13), 11=-102(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 10, 15, 14, 13, 12, 11 except 16=254(LC 19)

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

TOP CHORD 6-7=-183/255 **WEBS** 6-13=-254/123

- 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) 0-4-7 to 3-4-7, Interior(1) 3-4-7 to 8-5-11, Exterior(2R) 8-5-11 to 11-5-11, Interior(1) 11-5-11 to 13-3-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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) 10, 15, 14, 13 except (jt=lb) 1=100, 16=124, 12=133, 11=102.
- 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.







Job Truss Truss Type Qty Summit/129 Manor 2851482 LG5 **GABLE**

Valley Center, KS - 67147,

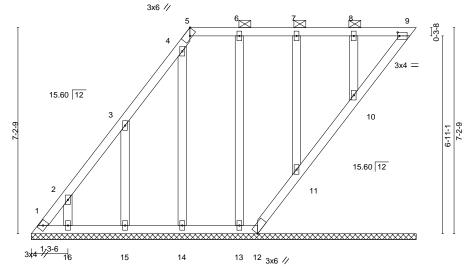
RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SER PRESS

LEE'S SUMMIT, MISSOURI

Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Thu 8.430 s Jun 2 2021 MiTek Industries, I ic. Thu 11 11575 2021 Page 2 ID:tjnOHGeVPJTyi41JASwyTKzhfUX-z9dBP3S7piFpUzx75kRaP h 11 14 TKR / Bix3205 kg

5-6-10

Scale = 1:40.3



7-11-1 13-5-10 Plate Offsets (X V)-- [5:0-2-12 Edge] [9:0-0-12 0-1-8]

T late Off	3013 (A, 1)	[5.0-2-12,Luge], [5.0-0-12	2,0 1 0]									
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	0.08	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	-0.00	9	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-S						Weight: 66 lb	FT = 20%

LUMBER-BRACING-

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.): 5-9.

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

REACTIONS. All bearings 13-5-10. Max Horz 1=256(LC 12) (lb) -

Builders FirstSource (Valley Center),

Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 12, 14, 13, 11, 10 except 16=-129(LC 12), 15=-175(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 9, 12, 16, 15, 14, 13, 11, 10 except 1=260(LC 12)

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

TOP CHORD 1-2=-333/274

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) 0-3-9 to 3-3-6, Interior(1) 3-3-6 to 5-6-10, Exterior(2R) 5-6-10 to 8-6-10, Interior(1) 8-6-10 to 13-2-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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, 9, 12, 14, 13, 11, 10 except (jt=lb) 16=129, 15=175.
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 9, 11, 10.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





Job Truss Truss Type Qty Summit/129 Manor 2851482 LG6 **GABLE**

Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SER PRESES LEE'S SUMMIT. MISSOURI

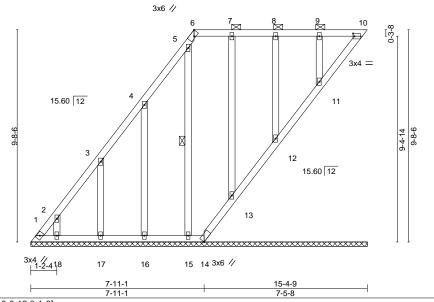
Job Reference (optional)

8.430 s Jun 2 2021 MiTek Industries, I ic. Thu by 11/5/5/5/2021 Page 1

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7-5-8 7-5-8 7-11-1

Scale = 1:52.7



[6:0-2-12,Edge], [10:0-0-12,0-1-8] Plate Offsets (X,Y)--SPACING-(loc) **PLATES** LOADING (psf) CSI. DEFL. in I/defl L/d GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.09 Vert(LL) 999 MT20 197/144 n/a n/a TCDL 10.0 Lumber DOL 1.15 BC 0.03 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.15 Horz(CT) -0.00 10 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Weight: 84 lb Matrix-S

BRACING-

TOP CHORD

LUMBER-

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

Builders FirstSource (Valley Center),

OTHERS 2x4 SPF No.2

BOT CHORD WEBS All bearings 15-4-9.

REACTIONS. Max Horz 1=347(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 10, 14, 15, 13, 12, 11 except 1=-142(LC 10), 18=-132(LC 12),

17=-158(LC 12), 16=-170(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 10, 14, 18, 17, 16, 15, 13, 12, 11 except 1=361(LC 12)

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

TOP CHORD 1-2=-457/370, 2-3=-336/270

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) 0-3-9 to 3-2-4, Interior(1) 3-2-4 to 7-5-8, Exterior(2R) 7-5-8 to 10-5-8, Interior(1) 10-5-8 to 15-1-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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) 10, 14, 15, 13, 12, 11 except (jt=lb) 1=142, 18=132, 17=158, 16=170.
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 10, 13, 12, 11.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) 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

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

1 Row at midpt

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



Job Truss Truss Type Qty Summit/129 Manor 2851482 LG7 **GABLE** Builders FirstSource (Valley Center), Valley Center, KS - 67147,

3-0-0

1-8-11

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

Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, I ic.

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Thu 🔥 1/5/:55-3071-Page

3x6 =

Scale = 1:32.4

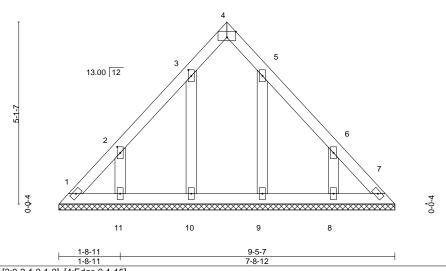


Plate Offsets (X,Y)-- [2:0-2-1,0-1-0], [3:0-2-1,0-1-0], [4:Edge,0-1-15]

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 0.06 BC 0.03 WB 0.03	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 7	l/defl n/a n/a n/a	L/d 999 999 n/a		GRIP 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S						Weight: 37 lb	FT = 20%

2x4 SPF No.2 TOP CHORD

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

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

REACTIONS. All bearings 9-5-7.

(lb) -Max Horz 1=-114(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 9, 10 except 8=-124(LC 13), 11=-122(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 1, 7, 9, 10, 8, 11

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

NOTES-

LUMBER-

- 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 4-8-11, Exterior(2R) 4-8-11 to 7-8-11, Interior(1) 7-8-11 to 9-1-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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, 9, 10 except (it=lb) 8=124, 11=122,
- 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.



July 2,2021





Job Truss Truss Type Qty Ply Summit/129 Manor Flat Girder 2851482 R1

Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES

LEE'S SUMMIT. MISSOURI

Job Reference (optional)

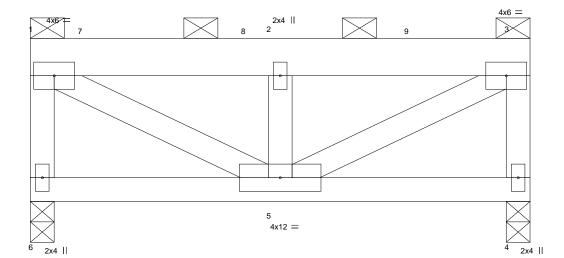
8.430 s Jun 2 2021 MiTek Industries, I c. Thu 8.430 s Jun 2 2021 MiTek Industries, I c. Thu 19 1151:56-2021 Page 1 ID:tjnOHGeVPJTyi41JASwyTKzhfUX-NkJJ14U05ddNLQfi ns?H1dJB_ZUQXn k29 1/X2Z RH

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

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

3-0-12 3-0-12

Scale = 1:14.1



	3-0- 3-0-		6-1-8 3-0-12	
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 0.43 BC 0.06 WB 0.30 Matrix-MP	DEFL. in (loc) l/defl L/d Vert(LL) -0.01 5 >999 240 Vert(CT) -0.02 5 >999 180 Horz(CT) -0.00 4 n/a n/a n/a	PLATES GRIP MT20 197/144 Weight: 58 lb FT = 20%

BOT CHORD

BRACING-LUMBER-TOP CHORD

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

Builders FirstSource (Valley Center),

6=0-3-8, 4=0-3-8 (size) Max Horz 6=56(LC 5)

Max Uplift 6=-258(LC 4), 4=-191(LC 5) Max Grav 6=2257(LC 1), 4=1893(LC 1)

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

1-6=-2211/265, 1-2=-2138/217, 2-3=-2138/217, 3-4=-1848/198 TOP CHORD

WFRS 2-5=-2356/274, 3-5=-261/2447, 1-5=-261/2447

NOTES-

REACTIONS.

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

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.

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

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

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 4) Provide adequate drainage to prevent water ponding.
- 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) except (jt=lb) 6=258, 4=191
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1187 lb down and 153 lb up at 0-9-0, and 1213 lb down and 126 lb up at 2-9-0, and 1351 lb down and 112 lb up at 4-9-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-70, 4-6=-20

Concentrated Loads (lb)

Vert: 7=-1187 8=-1213 9=-1224



July 2,2021

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 chorembers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



Job Truss Truss Type Qty Summit/129 Manor 2851482 V01 **GABLE**

Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES

LEE'S SUMMIT. MISSOURI

Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, I ic. Thu ID:tjnOHGeVPJTyi41JASwyTKzhfUX-rwsiFQVesxlEzaEu KaWWZgs

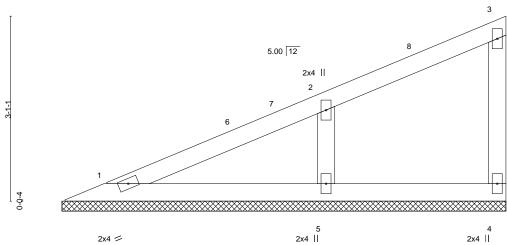
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

7-4-14

Scale = 1:19.2 2x4 ||



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 0.18	Vert(LL) n/a - n/a 999	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.09	Vert(CT) n/a - n/a 999	
BCLL 0.0	Rep Stress Incr YES	WB 0.04	Horz(CT) -0.00 4 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P		Weight: 21 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

2x4 SPF No.2 TOP CHORD

Builders FirstSource (Valley Center),

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

(size) 1=7-4-14, 4=7-4-14, 5=7-4-14

Max Horz 1=107(LC 11)

Max Uplift 1=-2(LC 12), 4=-16(LC 9), 5=-89(LC 12) Max Grav 1=130(LC 1), 4=85(LC 1), 5=370(LC 1)

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

2-5=-288/211 WEBS

- 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) 0-9-1 to 3-9-1, Interior(1) 3-9-1 to 7-3-2 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
- 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 100 lb uplift at joint(s) 1, 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.





Job Truss Truss Type Qty Summit/129 Manor 2851482 V02 **GABLE**

Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICESO

LEE'S SUMMIT. MISSOURI

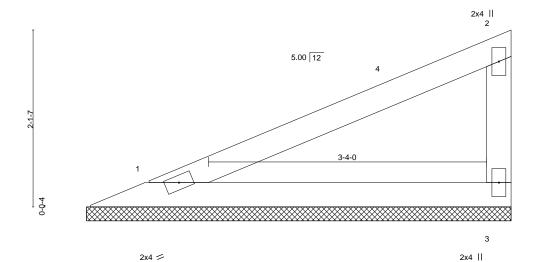
Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, I ic. Thu 🔥 ID:tjnOHGeVPJTyi41JASwyTKzhfUX-rwsiFQVesxlEzaEuKaWWZgsMgzopGlbulwg9

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

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

except end verticals.

Scale = 1:13.8



LOADIN	IG (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.Ó	Plate Grip DOL 1.15	TC 0.33	Vert(LL)	n/a	` _	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.18	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-P	, ,					Weight: 13 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

Builders FirstSource (Valley Center),

WEBS 2x4 SPF No.2

REACTIONS. 1=5-1-0, 3=5-1-0 (size) Max Horz 1=69(LC 9)

Max Uplift 1=-27(LC 12), 3=-41(LC 12) Max Grav 1=188(LC 1), 3=188(LC 1)

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

- 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) 0-9-1 to 3-9-1, Interior(1) 3-9-1 to 4-11-4 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) 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 100 lb uplift at joint(s) 1, 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.





Job Truss Truss Type Qty Summit/129 Manor 2851482 V03 Valley

Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVES 1

LEE'S SUMMIT. MISSOURI

Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, I ic. Thu 🔥 ID:tjnOHGeVPJTyi41JASwyTKzhfUX-J7Q4SmWGdEt5bl p5uH1ld2Qb AMA51lr1bgySpNzDR F

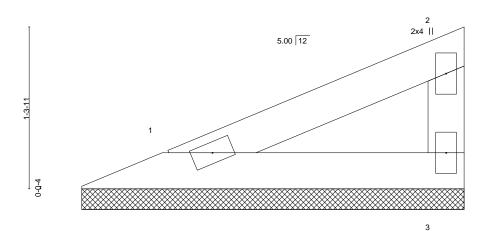
Structural wood sheathing directly applied or 3-1-11 oc purlins,

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

except end verticals.

3-1-11

Scale = 1:9.3



2x4 / 2x4 ||

BRACING-

TOP CHORD

BOT CHORD

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 0.08	Vert(LL) n/a - n/a 999	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.05	Vert(CT) n/a - n/a 999	
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 3 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P		Weight: 7 lb FT = 20%

LUMBER-

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

Builders FirstSource (Valley Center),

WEBS 2x4 SPF No.2

REACTIONS. 1=3-1-2, 3=3-1-2 (size) Max Horz 1=37(LC 9)

Max Uplift 1=-14(LC 12), 3=-22(LC 12) Max Grav 1=101(LC 1), 3=101(LC 1)

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) 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 100 lb uplift at joint(s) 1, 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.





Job Truss Truss Type Qty Summit/129 Manor 2851482 V04 **GABLE**

Valley Center, KS - 67147,

6-8-8

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVESES2

LEE'S SUMMIT. MISSOURI

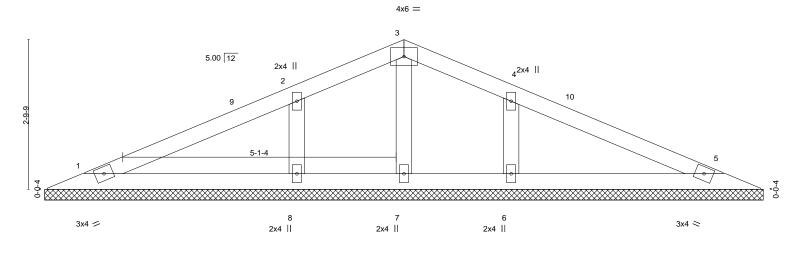
Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Thu 🔥 ID:tjnOHGeVPJTyi41JASwyTKzhfUX-nJ_Sg6XuOY?yCuOl S_Y_el[xl] mVUkC VBp3

6-8-8

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

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

Scale = 1:21.5



13-5-0 13-5-0								
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 0.19 BC 0.10 WB 0.04 Matrix-S	DEFL. i Vert(LL) n/ Vert(CT) n/ Horz(CT) 0.00	a -	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 36 lb	GRIP 197/144 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x4 SPF No 2 2x4 SPF No.2

BOT CHORD OTHERS 2x4 SPF No.2

Builders FirstSource (Valley Center),

REACTIONS. All bearings 13-5-0.

Max Horz 1=-39(LC 13)

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

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=376(LC 1), 6=376(LC 1)

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

2-8=-278/170, 4-6=-278/171 WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-9-1 to 3-9-1, Interior(1) 3-9-1 to 6-8-8, Exterior(2R) 6-8-8 to 9-8-8, Interior(1) 9-8-8 to 12-7-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 8, 6.
- 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.



July 2,2021



Job Truss Truss Type Qty Summit/129 Manor Valley 2851482 V05 Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries,

Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SER POSS

LEE'S SUMMIT. MISSOURI

Scale = 1:17.1

lnc. Thu 🌶

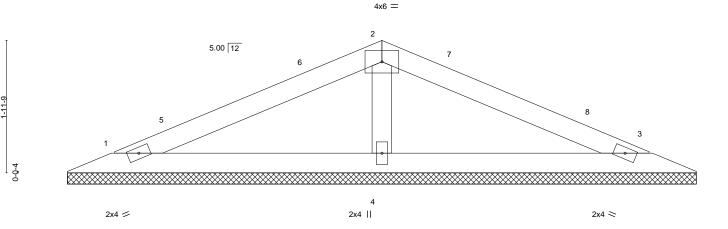
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4-8-8

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

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

4-8-8



0-0-10			9-5-0 9-4-6				
LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.21	DEFL. in Vert(LL) n/a	(loc) I/d	efl L/d n/a 999	PLATES MT20	GRIP 197/144
TCDL 10.0 BCLL 0.0	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.13 WB 0.04	Vert(CT) n/a Horz(CT) 0.00	_	n/a 999 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	,			Weight: 22 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

Builders FirstSource (Valley Center),

OTHERS

1=9-3-13, 3=9-3-13, 4=9-3-13 (size)

Max Horz 1=26(LC 12)

Max Uplift 1=-31(LC 12), 3=-35(LC 13), 4=-30(LC 12) Max Grav 1=161(LC 25), 3=161(LC 26), 4=398(LC 1)

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

2-4=-279/163 WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-9-1 to 3-9-1, Interior(1) 3-9-1 to 4-8-8, Exterior(2R) 4-8-8 to 7-8-8, Interior(1) 7-8-8 to 8-7-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



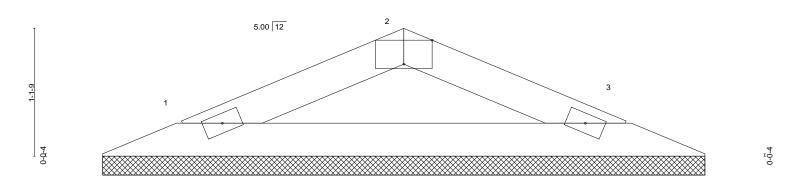


Job Truss Truss Type Qty Summit/129 Manor AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVESS4 2851482 V06 Valley Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, I c. LEE'S SUMMIT. MISSOURI Builders FirstSource (Valley Center), Valley Center, KS - 67147, Thu ID:tjnOHGeVPJTyi41JASwyTKzhfUX-GVYqtSXW9s7pq2zT?i3DETUxrAqkTfKk2qhZgrzDRD 2-8-8

Scale = 1:10.2

RELEASE FOR CONSTRUCTION

3x6 =



2x4 > 2x4 /

Plate Offsets (X,Y)-[2:0-3-0,Edge] LOADING (psf) SPACING-**PLATES** GRIP CSI. DEFL. in (loc) I/defI L/d 25.0 Plate Grip DOL TCLL 1.15 TC 0.07 Vert(LL) 999 MT20 197/144 n/a n/a 10.0 Lumber DOL 1.15 BC 0.16 Vert(CT) n/a n/a 999

TCDL **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 3 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Matrix-P Weight: 11 lb

LUMBER-

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

BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 5-5-0 oc purlins.

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

REACTIONS.

1=5-3-13, 3=5-3-13 (size) Max Horz 1=13(LC 16) Max Uplift 1=-23(LC 12), 3=-23(LC 13)

Max Grav 1=176(LC 1), 3=176(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI Offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth. For 4 x 2 orientation, locate plates 0- ¹/16" from outside

* Plate location details available in MiTek 20/20 software or upon request.

connector plates.

This symbol indicates the required direction of slots in

edge of truss.

PLATE SIZE

4 × 4

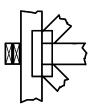
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING



Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

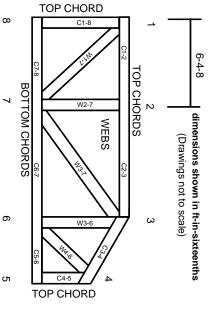
Min size shown is for crushing only

Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing.
Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-89:

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

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- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber

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- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.