



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

Re: 2720415

Roeser/1483 Winterset

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

Pages or sheets covered by this seal: I45716356 thru I45716469

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

Missouri COA: Engineering 001193



April 20,2021

Sevier, Scott

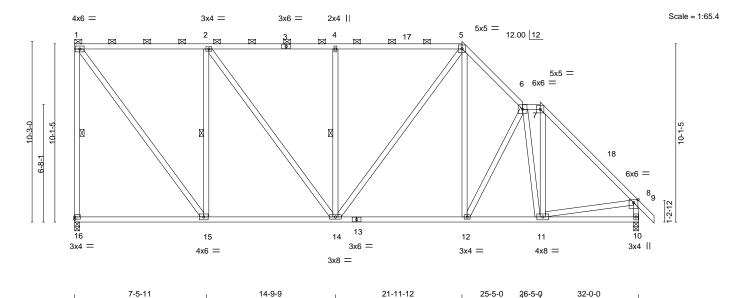
,Engineer

**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.

RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Roeser/1483 Winterset AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES6 2720415 A01 Roof Special LEF'S SUMMIT, MISSOURI | Job Reference (optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09/34/11/2021 Rags
| ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-ITgQgcGE1gw8cVoUI\_Vv8k3xy| PDF2KPU\_AQg6ZPBp= Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 26-5-0 1-0-0

7-3-15



7-2-3

	7-5-11	7-3-15	7-2-3	3-5-4 1-0-	0 5-7-0
LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	<b>CSI.</b> TC 0.99	( /	/defl L/d •999 240	PLATES GRIP MT20 197/144
TCDL 10.0 BCLL 0.0 BCDL 10.0	Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	BC 0.47 WB 0.96 Matrix-MS	Vert(CT) -0.18 12-14 > Horz(CT) 0.03 10	-999 180 n/a n/a	Weight: 192 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

**WEBS** 

LUMBER-

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

REACTIONS. 16=0-3-8, 10=0-3-8 (size)

Max Horz 16=-407(LC 10) Max Uplift 16=-357(LC 8), 10=-183(LC 13) Max Grav 16=1426(LC 1), 10=1499(LC 1)

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

7-5-11

1-16=-1361/372, 1-2=-865/278, 2-4=-1186/325, 4-5=-1187/325, 5-6=-1466/361, TOP CHORD

6-7=-1020/253, 7-8=-1579/267, 8-10=-1442/266

BOT CHORD 15-16=-338/449, 14-15=-262/865, 12-14=-149/1003, 11-12=-112/1139 WFBS

 $1 - 15 = -365/1426, \ 2 - 15 = -987/374, \ 2 - 14 = -171/538, \ 4 - 14 = -537/227, \ 5 - 14 = -195/408,$ 5-12=-156/402, 6-12=-317/229, 7-11=-91/689, 8-11=-139/849, 6-11=-770/159

### 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-4-2, Interior(1) 3-4-2 to 21-11-12, Exterior(2E) 21-11-12 to 25-5-0, Interior(1) 25-5-0 to 26-5-0, Exterior(2R) 26-5-0 to 29-7-6, Interior(1) 29-7-6 to 32-10-8 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 DOI = 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) 16=357, 10=183.
- 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.



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

Rigid ceiling directly applied or 9-11-3 oc bracing.

1 Row at midpt

except end verticals, and 2-0-0 oc purlins (4-2-6 max.): 1-5, 6-7.

1-16, 2-15, 4-14

April 20,2021



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

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



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty Roeser/1483 Winterset 2720415 A02 Roof Special Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

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

Scale = 1:74.3

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19,09(4h) 3,2021 Page ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-EsoA5HIVYIA spysPP (ND9BI/mpzv\_iy)Ik\_zFBJ 25-5-0

25-5-0

Structural wood sheathing directly applied or 3-7-5 oc purlins,

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

1 Row at midpt

except end verticals, and 2-0-0 oc purlins (3-7-0 max.): 1-8, 9-10.

1-19, 2-18, 7-17

13-11-12 4-5-0 -5-4 1-0-0 3-0 15-5-9 12 1-5-12 1-5-13

3x6 =12.00 12 3x6 =2x4 4x4 // 4x4 \ 5x8 = 4x6 3x4 = 6x6 = 6x6 = 9 20 6x8 =16 19 18 17 15 14 13 3x4 =4x6 = 3x6 =3x4 =4x8 = 3x4 =

13-11-12 | 15-5-9 2-11-8 | 1-5-13 Plate Offsets (X,Y)--[3:0-2-0,0-1-3], [4:0-3-0,Edge], [6:0-2-0,0-1-3], [8:0-5-9,0-2-8], [9:0-3-0,Edge], [10:0-4-1,0-3-0], [11:0-3-8,Edge], [13:Edge,0-1-8], [16:0-2-7,0-1-8] SPACING-**PLATES GRIP** LOADING (psf) 2-0-0 CSI. DEFL. (loc) I/def L/d Plate Grip DOL 197/144 TCLL 25.0 1.15 TC 0.84 Vert(LL) -0.10 18-19 >999 240 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.51 Vert(CT) -0.21 15-17 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.84 Horz(CT) 0.03 13 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Matrix-MS Weight: 194 lb

**BOT CHORD** 

**WEBS** 

3x8 =

BRACING-LUMBER-TOP CHORD

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

> (size) 19=0-3-8, 13=0-3-8 Max Horz 19=-408(LC 8)

Max Uplift 19=-334(LC 12), 13=-186(LC 13) Max Grav 19=1426(LC 1), 13=1499(LC 1)

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

1-19=-1357/354, 1-2=-994/286, 2-3=-1328/331, 3-6=-1240/323, 6-7=-1328/341, TOP CHORD

7-8=-1328/342, 8-9=-1418/363, 9-10=-1010/269, 10-11=-1594/273, 11-13=-1434/270 18-19=-303/407, 17-18=-127/994, 15-17=-25/1054, 14-15=-33/1090, 13-14=-208/288

WEBS 8-15=-171/372, 9-15=-266/212, 9-14=-593/82, 10-14=-37/541, 11-14=-71/749, 2-18=-964/345, 7-17=-549/219, 8-17=-86/423, 1-18=-352/1492, 2-17=-161/509

### NOTES-

REACTIONS.

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-4-2, Interior(1) 3-4-2 to 12-6-0, Exterior(2E) 12-6-0 to 13-11-12 , Interior(1) 22-11-12 to 25-5-0, Exterior(2R) 25-5-0 to 28-7-6, Interior(1) 28-7-6 to 32-10-8 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
- 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) 19=334, 13=186.
- 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.





Job Truss Truss Type Qty Roeser/1483 Winterset 2720415 A03 Roof Special Builders FirstSource (Valley Center), Valley Center, KS - 67147,

2-5-12

14-11-12

2-5-12

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVIGES8 LEE'S SUMMIT. MISSOURI

6x6 || Scale = 1:71.0

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

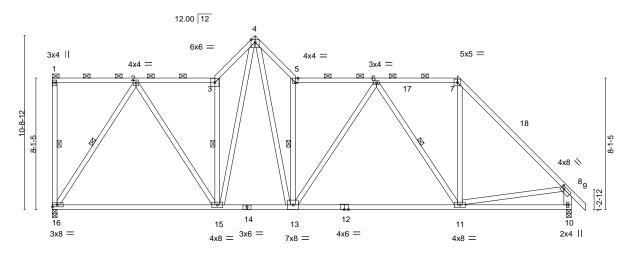
Rigid ceiling directly applied or 10-0-0 oc bracing.

1 Row at midpt

except end verticals, and 2-0-0 oc purlins (4-6-0 max.): 1-3, 5-7.

1-16, 3-15, 5-13, 2-16, 6-11

5-0-0



5-0-0

5-1-14 5-1-14 24-11-12 10-0-4 14-11-12 32-0-0 4-11-8 10-0-0 Plate Offsets (X,Y)-- [5:0-2-0,Edge], [8:0-2-0,0-1-12]

BRACING-

TOP CHORD

**BOT CHORD** 

**WEBS** 

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 0.64	Vert(LL) -0.33 15-16 >999 240	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.80	Vert(CT) -0.67 15-16 >566 180	
BCLL	0.0	Rep Stress Incr YES	WB 0.92	Horz(CT) 0.05 10 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-MS	, ,	Weight: 190 lb FT = 20%

LUMBER-

REACTIONS.

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

8-10: 2x6 SPF No.2 (size) 16=0-3-8, 10=0-3-8

Max Horz 16=-395(LC 8) Max Uplift 16=-242(LC 12), 10=-273(LC 13)

5-1-14

4-10-6

Max Grav 16=1422(LC 1), 10=1502(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  $2\text{-}3\text{=-}1265/298,\ 3\text{-}4\text{=-}1821/492,\ 4\text{-}5\text{=-}2075/536,\ 5\text{-}6\text{=-}1446/338,\ 6\text{-}7\text{=-}996/315,}$ TOP CHORD

7-8=-1597/303. 8-10=-1454/293 15-16=-189/773, 13-15=-140/1044, 11-13=-187/1350, 10-11=-260/314

**BOT CHORD WEBS** 3-15=-1466/417, 5-13=-1657/464, 7-11=-54/625, 8-11=-166/723, 2-15=-160/911, 2-16=-1409/291, 4-13=-486/1688, 4-15=-284/883, 6-11=-653/193, 6-13=-2/253

- 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-4-2, Interior(1) 3-4-2 to 12-6-0, Exterior(2E) 12-6-0 to 14-11-12 , Interior(1) 14-11-12 to 24-11-12, Exterior(2R) 24-11-12 to 28-2-2, Interior(1) 28-2-2 to 32-10-8 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) 16=242, 10=273.
- 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.





Job Truss Truss Type Qty Roeser/1483 Winterset 2720415 A04 Roof Special Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVIGES9 LEF'S SUMMIT, MISSOURI

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon April 19 09/34 17/2021 Rage 

Structural wood sheathing directly applied, except end verticals, and

2-14, 3-13, 5-12, 4-12, 6-11

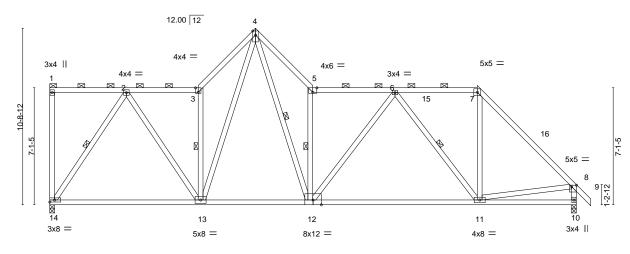
2-0-0 oc purlins (4-2-5 max.): 1-3, 5-7.

Rigid ceiling directly applied.

1 Row at midpt

20-11-12 25-11-12 4-4-6 3-5-12 3-5-12 5-0-0 5-0-0

> Scale = 1:70.0 4x8 ||



15-11-12 25-11-12 32-0-0 9-0-4

BRACING-

TOP CHORD

**BOT CHORD** 

**WEBS** 

Plate Offsets (X,Y)	[3:0-2-0,Eage], [5:0-3-0,Eage], [8:0-3-8,0-1-0]

4-7-14

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 0.36	Vert(LL) -0.27 11-12	>999 240	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.77	Vert(CT) -0.59 11-12	>644 180	
BCLL	0.0	Rep Stress Incr YES	WB 0.62	Horz(CT) 0.05 10	n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS			Weight: 180 lb FT = 20%

LUMBER-

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

WEBS 2x4 SPF No.2

REACTIONS. (size) 14=0-3-8, 10=0-3-8 Max Horz 14=-380(LC 8)

Max Uplift 14=-230(LC 12), 10=-273(LC 13) Max Grav 14=1426(LC 1), 10=1499(LC 1)

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

2-3=-1369/303, 3-4=-1976/524, 4-5=-2411/589, 5-6=-1679/362, 6-7=-1030/304, TOP CHORD

7-8=-1610/298, 8-10=-1462/286

BOT CHORD 13-14=-190/815, 12-13=-126/1046, 11-12=-193/1499

WEBS 2-14=-1444/280, 2-13=-171/1003, 3-13=-1578/449, 5-12=-1914/520, 7-11=-53/670, 8-11=-140/852, 4-12=-518/1936, 4-13=-300/945, 6-11=-789/187, 6-12=-22/315

## 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-4-2, Interior(1) 3-4-2 to 12-6-0, Exterior(2E) 12-6-0 to 15-11-12 , Interior(1) 15-11-12 to 25-11-12, Exterior(2R) 25-11-12 to 29-2-2, Interior(1) 29-2-2 to 32-10-8 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)
- 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 Roeser/1483 Winterset 2720415 A05 Roof Special Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

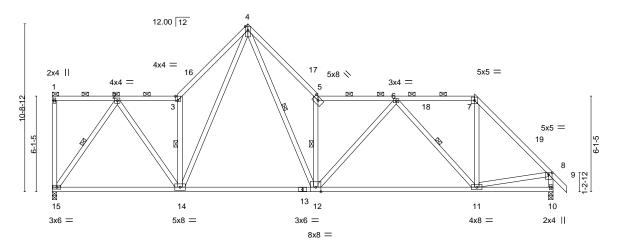
4-5-12

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICESO LEF'S SUMMIT, MISSOURI

8.430 s Mar 22 2021 MiTek Industries, Inc 19 09 34-18 2021 Rage Mon Apr ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-bqb38?LdNqp8yaqqlyy7YwD Dgnjaa/IWR5aN3PQZFBg7

26-11-12 21-11-12 4-5-12 5-0-0 5-0-0

4x8 || Scale = 1:73.6



26-11-12 32-0-0

Plate Offsets (A, Y)	[3:0-1-12,Eage], [5:0-4-0,0-2-5], [8:0-2-12,0-1-4]	

4-1-14

3-10-6

LOADING (psf)	SPACING- 2-0-0	CSI.	<b>DEFL.</b> in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.58	Vert(LL) -0.26 11-12 >999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.80	Vert(CT) -0.57 11-12 >671 180	
BCLL 0.0	Rep Stress Incr YES	WB 0.67	Horz(CT) 0.05 10 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS		Weight: 171 lb FT = 20%

LUMBER-

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

Structural wood sheathing directly applied or 2-11-4 oc purlins, except end verticals, and 2-0-0 oc purlins (3-10-6 max.): 1-3, 5-7. Rigid ceiling directly applied or 10-0-0 oc bracing.

**BOT CHORD WEBS** 

2-15, 3-14, 5-12, 6-11, 4-12 1 Row at midpt

REACTIONS. (size) 15=0-3-8, 10=0-3-8

Max Horz 15=-366(LC 8)

Max Uplift 15=-219(LC 12), 10=-273(LC 13) Max Grav 15=1426(LC 1), 10=1499(LC 1)

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

2-3=-1494/300, 3-4=-2168/540, 4-5=-2826/646, 5-6=-1968/382, 6-7=-1035/282, TOP CHORD

7-8=-1591/291, 8-10=-1478/280

BOT CHORD 14-15=-192/865, 12-14=-113/1040, 11-12=-200/1674

WEBS 2-15=-1503/283, 2-14=-176/1108, 3-14=-1724/464, 5-12=-2227/579, 7-11=-66/719, 8-11=-116/943, 6-11=-977/184, 6-12=-40/442, 4-14=-305/1066, 4-12=-566/2262

## 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-4-2, Interior(1) 3-4-2 to 12-6-0, Exterior(2R) 12-6-0 to 15-8-6, Interior(1) 15-8-6 to 26-11-12, Exterior(2R) 26-11-12 to 30-2-2, Interior(1) 30-2-2 to 32-10-8 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
- 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) 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 Roeser/1483 Winterset 2720415 A06 **ROOF SPECIAL** Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

12-6-0

5-5-12

7-0-4

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVIGES1 LEF'S SUMMIT, MISSOURI

19109/34-1942071-Rage 8.430 s Mar 22 2021 MiTek Industries, Inc Mon Apr 

Structural wood sheathing directly applied or 3-4-15 oc purlins,

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

6-0-0 oc bracing: 9-10.

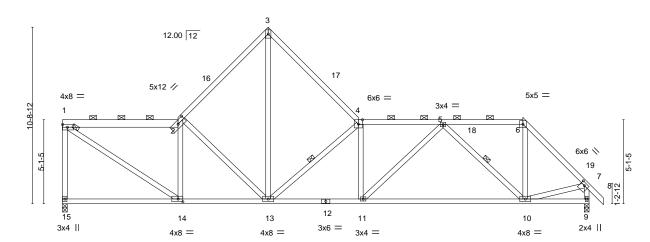
1 Row at midpt

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

4-13, 5-10

23-1-8 5-1-12 4-10-4

Scale = 1:70.0 4x6 ||



17-11-12

5-5-12

27-11-12 12-6-0 17-11-12 32-0-0 7-0-4 4-0-4 10-0-0 [2:0-6-0 0-2-5] [4:0-3-0 Edge] [7:0-3-0 0-1

BRACING-

TOP CHORD

**BOT CHORD** 

**WEBS** 

Plate Offs	sets (X,Y)	[2:0-6-0,0-2-5], [4:0-3-0,1	Edge], [7:0-3-0	,0-1-15], [14:	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	0.61	Vert(LL)	-0.24 10-11	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.53 10-11	>716	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.07 9	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-S	' '				Weight: 165 lb	FT = 20%

LUMBER-

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

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

REACTIONS. (size) 15=0-3-8, 9=0-3-8 Max Horz 15=-272(LC 13)

Max Uplift 15=-204(LC 12), 9=-267(LC 13) Max Grav 15=1426(LC 1), 9=1499(LC 1)

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

 $1\text{-}15\text{-}-1359/241,\ 1\text{-}2\text{-}-1666/268,\ 2\text{-}3\text{-}-1630/358,\ 3\text{-}4\text{-}-1620/340,\ 4\text{-}5\text{-}-2323/390,}$ TOP CHORD

5-6=-1006/250, 6-7=-1546/269, 7-9=-1499/264

**BOT CHORD** 14-15=-229/272, 13-14=-181/1633, 11-13=-231/2329, 10-11=-218/1878

**WEBS** 1-14=-320/1976, 2-14=-968/241, 2-13=-778/223, 3-13=-316/1729, 4-13=-1711/419, 4-11=-253/124, 5-11=-71/616, 5-10=-1213/203, 6-10=-64/750, 7-10=-85/1013

- 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-4-2, Interior(1) 3-4-2 to 12-6-0, Exterior(2R) 12-6-0 to 15-8-6, Interior(1) 15-8-6 to 27-11-12, Exterior(2R) 27-11-12 to 31-2-2, Interior(1) 31-2-2 to 32-10-8 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) 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) 15=204, 9=267
- 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.





Job Truss Truss Type Qty Roeser/1483 Winterset 2720415 A07 Roof Special Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

6-5-12

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVIGES2 LEF'S SUMMIT, MISSOURI

8.430 s Mar 22 2021 MiTek Industries, Ind. Mon Apr. 19 09/24-20 2021 Rage / ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-XCjqZhNuvR3sCu\_CJN90?ex.lyt.Pv28ekZus/Uz/FBrb 19 09/34-20/2021 Rage 1 32-0-0

FT = 20%

Weight: 164 lb

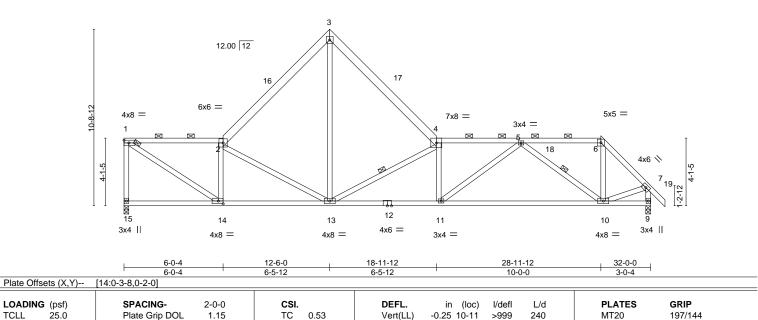
Structural wood sheathing directly applied, except end verticals, and

Scale = 1:70.0 5x5 ||

5-1-12

28-11-12

4-10-4



Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

**BOT CHORD** 

**WEBS** 

-0.55 10-11

0.09

>695

n/a

Rigid ceiling directly applied.

1 Row at midpt

180

n/a

2-0-0 oc purlins (3-1-9 max.): 1-2, 4-6.

6-5-12

LUMBER-

TCLL

TCDL

**BCLL** 

**BCDL** 

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

2-3,3-4: 2x6 SPF No.2 2x4 SPF No.2

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

10.0

10.0

0.0

REACTIONS. (size) 15=0-3-8, 9=0-3-8 Max Horz 15=-336(LC 8)

Max Uplift 15=-203(LC 12), 9=-275(LC 13) Max Grav 15=1426(LC 1), 9=1499(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.

6-0-4

1-15=-1367/231, 1-2=-1795/311, 2-3=-1668/364, 3-4=-1662/350, 4-5=-2888/481, TOP CHORD

5-6=-985/228, 6-7=-1476/256, 7-9=-1531/258

**BOT CHORD** 14-15=-251/292, 13-14=-223/1835, 11-13=-359/2902, 10-11=-312/2188 **WEBS** 1-14=-328/2102, 2-14=-1047/245, 2-13=-880/236, 3-13=-276/1650, 4-13=-2119/492,

4-11=-364/130, 5-11=-90/881, 5-10=-1515/276, 6-10=-63/726, 7-10=-72/1093

1.15

YES

ВС

WB

Matrix-AS

0.82

0.86

- 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-4-2, Interior(1) 3-4-2 to 12-6-0, Exterior(2R) 12-6-0 to 15-8-6, Interior(1) 15-8-6 to 28-11-12, Exterior(2R) 28-11-12 to 32-2-2, Interior(1) 32-2-2 to 32-10-8 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) 15=203, 9=275,
- 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 Roeser/1483 Winterset 2720415 A08 ROOF SPECIAL GIRDER

4x6 ||

Valley Center, KS - 67147,

Job Reference (optional)

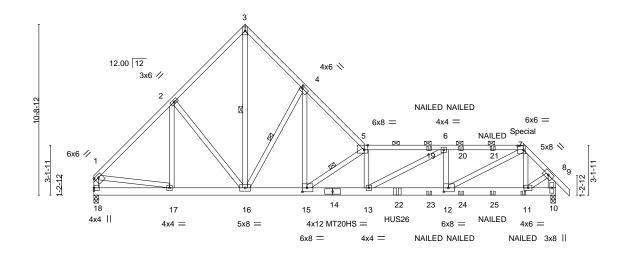
AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES3 LEE'S SUMMIT, MISSOURI

RELEASE FOR CONSTRUCTION

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Ap. 19,09(34)22,2021 Rage / ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-Tbqa\_MP8R3JaRC8buoBU53 rs D4pW2pf 0QLh/YzFBp3 29-10-8

4-10-12 13-2-14 2-0-4 0-10-8 4-10-4

Scale = 1:72.4



	4-10-12	4-7-4 3-8-14	3-8-14 5-1-12 4-10-4	2-0-4
Plate Offsets (X,Y)	[4:0-1-0,0-1-12], [5:0-2-12,Edge], [7:0-4	I-4,0-3-0], [12:0-3-8,0-3-0]	], [15:0-3-8,0-3-0]	
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 0.89	Vert(LL) -0.30 12-13 >999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.85	Vert(CT) -0.53 12-13 >644 180	MT20HS 148/108
BCLL 0.0	Rep Stress Incr NO	WB 0.89	Horz(CT) 0.05 10 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S		Weight: 171 lb FT = 20%

16-11-12

BRACING-

TOP CHORD

**BOT CHORD** 

**WEBS** 

22-1-8

1 Row at midpt

26-11-12

29-0-0

Structural wood sheathing directly applied or 3-0-9 oc purlins,

3-16, 4-16, 5-15

except end verticals, and 2-0-0 oc purlins (2-4-4 max.): 5-7.

Rigid ceiling directly applied or 9-8-5 oc bracing.

13-2-14

LUMBER-

REACTIONS.

WEBS

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

Builders FirstSource (Valley Center),

5-7: 2x4 SPF 1650F 1.5E **BOT CHORD** 2x6 SPF 2100F 1.8E 2x4 SPF No.2 \*Except\*

8-10: 2x6 SPF No.2 (size) 18=0-3-8, 10=0-3-8

Max Horz 18=-299(LC 4) Max Uplift 18=-283(LC 9), 10=-546(LC 9) Max Grav 18=1678(LC 1), 10=2400(LC 1)

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

TOP CHORD 1-2=-1861/365, 2-3=-1765/471, 3-4=-1736/459, 4-5=-3140/621, 5-6=-5648/1139,

4-10-12

9-6-0

6-7=-4606/1025, 7-8=-2021/462, 1-18=-1607/294, 8-10=-2360/527

**BOT CHORD** 17-18=-281/366, 16-17=-240/1240, 15-16=-306/2155, 13-15=-1040/5637,

12-13=-929/4604, 11-12=-284/1468

WFBS 2-16=-273/271, 3-16=-552/2048, 4-16=-2009/587, 4-15=-508/2473, 5-15=-4343/976,

5-13=-408/400, 6-13=-172/1191, 6-12=-1223/363, 7-12=-744/3617, 7-11=-765/249,

1-17=-142/1110, 8-11=-311/1617

- 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=25ft; 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) 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) 18=283, 10=546.
- 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/TPL1
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  9) Use Simpson Strong-Tie HUS26 (14-10d Girder, 6-10d Truss, Single Ply Girder) or equivalent at 19-0-12 from the left end to connect truss(es) to front face of bottom chord.
- 10) Fill all nail holes where hanger is in contact with lumber.
- 11) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 140 lb down and 118 lb up at 26-11-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

Continued on page 2
LOAD CASE(S) Standard





16023 Swingley Ridge Rd Chesterfield, MO 63017

OF MISS

SCOTT M.

SEVIER

PE-200101880

RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Roeser/1483 Winterset ROOF SPECIAL GIRDER 2720415 A08 

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVIGES3

LEE'S SUMMIT. MISSOURI

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

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-70, 3-5=-70, 5-7=-70, 7-8=-70, 8-9=-70, 10-18=-20

Concentrated Loads (lb)

Vert: 7=-85(F) 11=-52(F) 19=-85(F) 20=-85(F) 21=-85(F) 22=-902(F) 23=-43(F) 24=-43(F) 25=-43(F)

16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty Roeser/1483 Winterset 2720415 A09 Common 2 Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Am 19 09/3/23/2021 3 agg / ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-xnOyBiPmCMRR3L n\_VijdCV90cZVFZ4AF 4/459ZFBj/2 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

4-7-4

4-10-12

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVIGES4 LEE'S SUMMIT. MISSOURI

Scale: 3/16"=1 4x6 ||

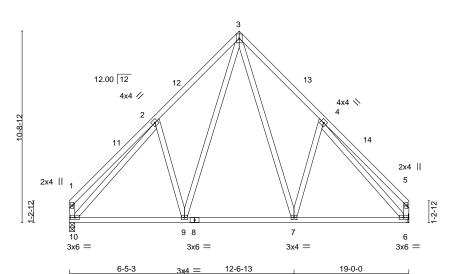
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

19-0-0

4-10-12



14-1-4

4-7-4

LOADING	i (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.04	6-7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.08	6-7	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	PI2014	Matri	x-MS						Weight: 108 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

> 10=0-3-8, 6=Mechanical (size) Max Horz 10=283(LC 9)

Max Uplift 10=-116(LC 13), 6=-116(LC 12) Max Grav 10=842(LC 1), 6=842(LC 1)

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

1-2=-273/165, 2-3=-810/327, 3-4=-810/327, 4-5=-273/165, 1-10=-271/156,

5-6=-271/155

**BOT CHORD** 9-10=-141/628, 7-9=-55/430, 6-7=-69/543

WFBS 3-7=-246/411, 4-7=-279/304, 3-9=-246/411, 2-9=-279/304, 2-10=-690/65, 4-6=-690/65

### 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=25ft; 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 9-6-0, Exterior(2R) 9-6-0 to 12-6-0, Interior(1) 12-6-0 to 18-10-4 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) 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) except (jt=lb) 10=116, 6=116.
- 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 Roeser/1483 Winterset 2720415 A09A Common Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19.09/24-24.2071-2399 i ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-Q\_yKP2QOzgZlgVlzYCEyAU(K)Clk,f0+KUVq0d-2FBgf Builders FirstSource (Valley Center), Valley Center, KS - 67147,

4-7-4

4-7-4

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES5 LEE'S SUMMIT. MISSOURI

Scale: 3/16"=1 4x6 ||

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

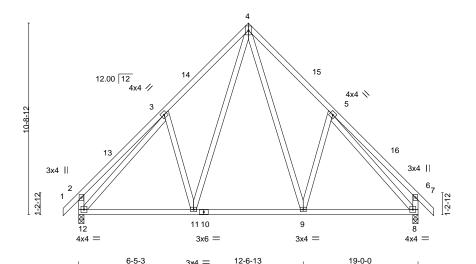
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

0-10-8

19-0-0

4-10-12



LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.27	DEFL. in Vert(LL) -0.04	8-9 >9	defl L/d 999 240	PLATES MT20	<b>GRIP</b> 197/144
TCDL 10.0 BCLL 0.0 BCDL 10.0	Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	BC 0.31 WB 0.59 Matrix-MS	Vert(CT) -0.08 Horz(CT) 0.01		999 180 n/a n/a	Weight: 110 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. 12=0-3-8, 8=0-3-8 (size)

Max Horz 12=-310(LC 10)

Max Uplift 12=-124(LC 12), 8=-124(LC 13) Max Grav 12=913(LC 1), 8=913(LC 1)

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

TOP CHORD 2-3=-307/222, 3-4=-799/328, 4-5=-799/328, 5-6=-307/222, 2-12=-368/224,

-0-10-8 0-10-8

4-10-12

6-8=-368/224

**BOT CHORD** 11-12=-131/634, 9-11=-45/440, 8-9=-25/534

WFBS 4-9=-244/403, 5-9=-270/302, 4-11=-244/403, 3-11=-270/302, 3-12=-659/31,

5-8=-659/30

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; 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 9-6-0, Exterior(2R) 9-6-0 to 12-6-0, Interior(1) 12-6-0 to 19-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=124, 8=124.
- 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 Roeser/1483 Winterset **COMMON SUPPORTED GAB** 2720415 A10 Job Reference (optional) RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES6 LEF'S SUMMIT, MISSOURI

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Am 19.09/31-25.2021 Flags ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-uAWjcOR0k\_h8 tA6wlBhekNcc6DiZMT Az xxzlfB0

Valley Center, KS - 67147, -0-10<sub>7</sub>8 19-10<sub>-</sub>8 0-10-8 9-6-0 9-6-0

> Scale = 1:67.7 4x4 =

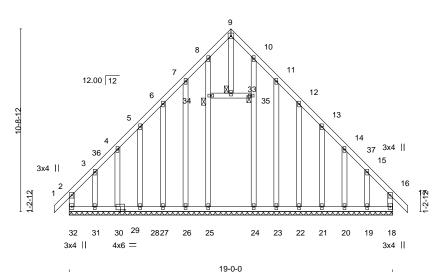


Plate Offsets (X,Y)--[29:0-3-0,0-1-4] SPACING-**PLATES GRIP** LOADING (psf) 2-0-0 CSI DEFL. in (loc) I/defl L/d Plate Grip DOL TCLL 25.0 1.15 TC 0.17 Vert(LL) -0.00 17 120 197/144 n/r MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.16 Vert(CT) -0.01 17 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.22 Horz(CT) 0.01 18 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Weight: 140 lb Matrix-S

BRACING-LUMBER-

TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, 2x4 SPF No.2 **BOT CHORD** 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 **JOINTS** 1 Brace at Jt(s): 33, 34, 35

REACTIONS. All bearings 19-0-0.

Builders FirstSource (Valley Center),

Max Horz 32=310(LC 11) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 27, 28, 30, 22, 21, 20 except 32=-189(LC 10), 18=-159(LC 11),

26=-123(LC 12), 31=-313(LC 12), 23=-124(LC 13), 19=-304(LC 13)

All reactions 250 lb or less at joint(s) 25, 26, 27, 28, 30, 24, 23, 22, 21, 20, 19 except 32=313(LC Max Grav 20), 18=298(LC 22), 31=262(LC 10)

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

TOP CHORD 2-3=-298/224, 7-8=-160/315, 8-9=-150/275, 9-10=-150/275, 10-11=-160/315,

15-16=-285/197

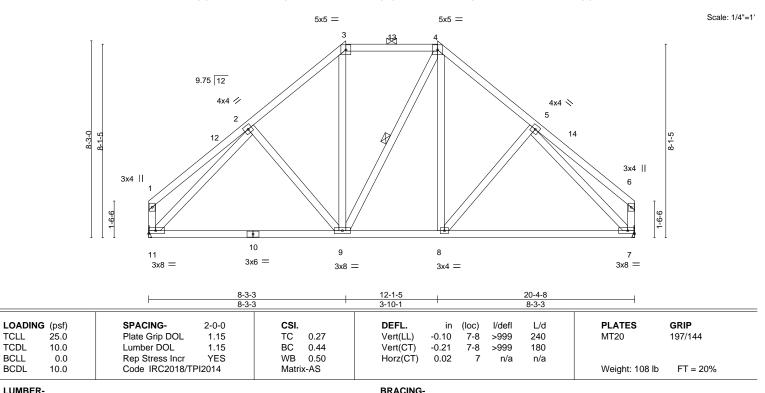
## NOTES-

- 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 9-6-0, Corner(3R) 9-6-0 to 12-6-0, Exterior(2N) 12-6-0 to 19-10-8 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) 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) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 27, 28, 30, 22, 21, 20 except (jt=lb) 32=189, 18=159, 26=123, 31=313, 23=124, 19=304.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Roeser/1483 Winterset AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVIGES7 2720415 B01 Hip LEE'S SUMMIT. MISSOURI Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Ind 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Ap. 19,0974-26,2021 Page ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-MM45qkSfUHp?wpSM\_dGQFvQd/YBSyecxJJJhz/FBj? Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8-3-3 3-11-14 12-1-5 16-1-2 20-4-8 4-3-6 3-10-1 3-11-14 4-3-6



TOP CHORD

BOT CHORD

**WEBS** 

LUMBER-

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

REACTIONS.

(size) 11=Mechanical, 7=Mechanical Max Horz 11=221(LC 11) Max Uplift 11=-136(LC 12), 7=-136(LC 13) Max Grav 11=904(LC 1), 7=904(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 1-2=-256/86, 2-3=-834/223, 3-4=-575/222, 4-5=-833/226, 5-6=-256/85 TOP CHORD

**BOT CHORD** 9-11=-162/651, 8-9=-54/575, 7-8=-107/639

WEBS 2-11=-786/130, 5-7=-786/145

### 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=25ft; 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 8-3-3, Exterior(2E) 8-3-3 to 12-1-5, Exterior(2R) 12-1-5 to 16-2-14, Interior(1) 16-2-14 to 20-2-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=136, 7=136.
- 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 (6-0-0 max.): 3-4.

Rigid ceiling directly applied.

1 Row at midpt



Job Truss Truss Type Qty Roeser/1483 Winterset 2720415 B02 Hip Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES8 LEE'S SUMMIT, MISSOURI

19 09 34-27 2021 Rage

8.430 s Mar 22 2021 MiTek Industries, Ind. Mon April 1909/31-27 2021 Fagr ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-qYeT14SHFbxsXz)YDLnfd6j.ur wBZmA 22EzzlB 9-6-0 4-7-4 10-10-8 15-5-12 4-10-12 1-4-9 4-7-4 4-10-12

5x5 = 5x5 = Scale = 1:54.2 3 14 15 9.75 12 3x6 // 3x6 📏 13 2 9-0-3 6x6 =  $^{6}$  6x6 = 4x12 = 8 1-5-4 4x4 = 4x4 = 0-1-3 0-1-3 4.00 12 2x4 < 2x4 =

4-10-12 10-2-4 20-4-8 4-10-12 4-10-12 Plate Offsets (X V)-- [3:0-2-15 Edge] [4:0-2-15 Edge] [9:0-6-0 0-2-4]

Tidle Offsets (X, T)	Titute Offices (X,1) [0.0 2 To;Euge], [4.0 2 To;Euge], [0.0 0 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 0.23	Vert(LL) -0.04 9 >999 240	MT20 197/144							
TCDL 10.0	Lumber DOL 1.15	BC 0.29	Vert(CT) -0.09 8-9 >999 180								
BCLL 0.0	Rep Stress Incr YES	WB 0.22	Horz(CT) 0.07 7 n/a n/a								
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 99 lb FT = 20%							

LUMBER-

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

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

Structural wood sheathing directly applied, except TOP CHORD

2-0-0 oc purlins (6-0-0 max.): 3-4. **BOT CHORD** Rigid ceiling directly applied.

REACTIONS. (size) 11=Mechanical, 7=Mechanical

Max Horz 11=-245(LC 10)

Max Uplift 11=-129(LC 12), 7=-129(LC 13) Max Grav 11=904(LC 1), 7=904(LC 1)

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

1-2=-1360/234, 2-3=-1125/218, 3-4=-848/227, 4-5=-1125/231, 5-6=-1360/215, TOP CHORD

1-11=-886/191, 6-7=-886/161

**BOT CHORD** 10-11=-260/318, 9-10=-220/1109, 8-9=-135/1047

**WEBS** 2-9=-253/204, 3-9=-74/444, 4-9=-114/477, 5-9=-275/215, 1-10=-65/889, 6-8=-80/889

## 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=25ft; 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 9-6-0, Exterior(2E) 9-6-0 to 10-10-8, Exterior(2R) 10-10-8 to 15-1-7, Interior(1) 15-1-7 to 20-2-12 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=129, 7=129
- 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.





Job Truss Truss Type Qty Roeser/1483 Winterset 2720415 B<sub>0</sub>3 Scissor 10 Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon April

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES9 LEE'S SUMMIT. MISSOURI

19 09 34-28 2021 Rage

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> 4x4 = Scale = 1:57.5

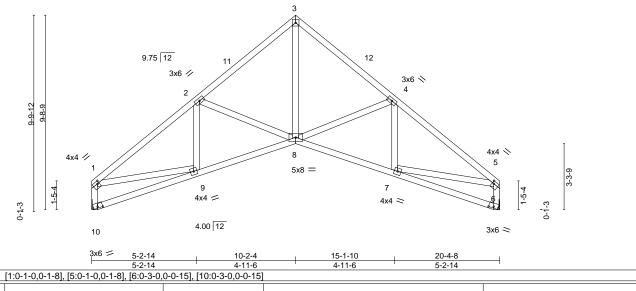


Plate Offsets (X,Y)--

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	0.26	Vert(LL)	-0.05	8	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.09	7-8	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.08	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-AS						Weight: 95 lb	FT = 20%

LUMBER-

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

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

Rigid ceiling directly applied.

REACTIONS. (size) 10=Mechanical, 6=Mechanical

Max Horz 10=-261(LC 10)

Max Uplift 10=-124(LC 12), 6=-124(LC 13) Max Grav 10=904(LC 1), 6=904(LC 1)

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

TOP CHORD 1-2=-1372/232, 2-3=-1106/224, 3-4=-1106/237, 4-5=-1372/224, 1-10=-886/194,

5-6=-886/168

BOT CHORD 9-10=-278/348, 8-9=-224/1142, 7-8=-135/1049

WEBS 3-8=-165/926, 4-8=-308/232, 2-8=-287/222, 1-9=-51/878, 5-7=-75/878

- 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=25ft; 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 10-2-4, Exterior(2R) 10-2-4 to 13-2-4 , Interior(1) 13-2-4 to 20-2-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=124, 6=124.
- 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 Roeser/1483 Winterset 2720415 B04 Common Supported Gable Job Reference (optional) RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICESO LEF'S SUMMIT, MISSOURI

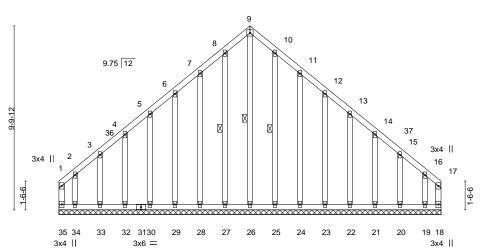
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8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09/34 30/2021 Page 1 ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-E7Jcf5V9YWKROC i7uTLMPII/Nr dziQeCsRiyioyzi Bby

Valley Center, KS - 67147,

20-4-8 10-2-4 10-2-4

4x4 =



20-4-8

LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES GRIP** (loc) I/defl 25.0 Plate Grip DOL Vert(LL) 999 197/144 **TCLL** 1.15 TC 0.15 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.14 Vert(CT) n/a 999 n/a **BCLL** 0.0 Rep Stress Incr YES WB 0.15 Horz(CT) 0.00 18 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-R Weight: 145 lb FT = 20%

BRACING-LUMBER-

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

Builders FirstSource (Valley Center),

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

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

except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. **WEBS** 9-26, 8-27, 10-25 1 Row at midpt

REACTIONS. All bearings 20-4-8. Max Horz 35=263(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 27, 28, 29, 30, 32, 33, 25, 24, 23, 22, 21, 20 except 35=-346(LC

10), 18=-301(LC 11), 34=-332(LC 9), 19=-297(LC 8)

Max Grav All reactions 250 lb or less at joint(s) 27, 28, 29, 30, 32, 33, 25, 24, 23, 22, 21, 20 except

35=386(LC 9), 18=341(LC 8), 26=288(LC 13), 34=365(LC 10), 19=330(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 6-7=-144/270, 7-8=-182/341, 8-9=-195/368, 9-10=-195/368, 10-11=-182/341,

11-12=-144/270 9-26=-375/161 **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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-1-12 to 3-1-12, Exterior(2N) 3-1-12 to 10-2-4, Corner(3R) 10-2-4 to 13-2-4, Exterior(2N) 13-2-4 to 20-2-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 27, 28, 29, 30, 32, 33, 25, 24, 23, 22, 21, 20 except (jt=lb) 35=346, 18=301, 34=332, 19=297.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Roeser/1483 Winterset AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVIGES1 2720415 B05 Common LEE'S SUMMIT. MISSOURI Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09/31-32 2021 PID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-BWRM4nWP47a9ekvWeuNqUA DtBC crshwVJinpuQ Builders FirstSource (Valley Center), Valley Center, KS - 67147, 19 09/34-32/2021 Rage 10-9-8 16-0-8

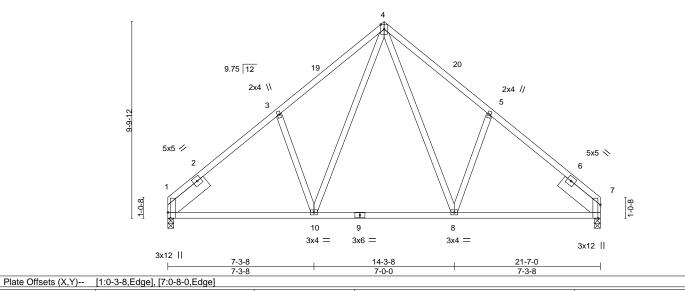
5-3-0

Scale = 1:57.5 4x6 ||

5-6-8

Structural wood sheathing directly applied.

Rigid ceiling directly applied.



5-3-0

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	0.26	Vert(LL)	-0.05	8-10	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.11	8-10	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-AS	, ,					Weight: 107 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

SLIDER Left 2x8 SP 2400F 2.0E -t 2-6-0, Right 2x8 SP 2400F 2.0E -t 2-6-0

REACTIONS. (size) 1=0-3-8, 7=0-3-8 Max Horz 1=-229(LC 8)

Max Uplift 1=-136(LC 12), 7=-136(LC 13)

Max Grav 1=971(LC 1), 7=971(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 1-3=-1103/209, 3-4=-1019/313, 4-5=-1019/313, 5-7=-1103/209 TOP CHORD

**BOT CHORD** 1-10=-192/835, 8-10=-28/572, 7-8=-79/789

**WEBS** 4-8=-218/464, 5-8=-313/268, 4-10=-218/464, 3-10=-313/268

- 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=25ft; 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 10-9-8, Exterior(2R) 10-9-8 to 13-9-8, Interior(1) 13-9-8 to 21-7-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

5-6-8

- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=136, 7=136.
- 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.









Job Truss Truss Type Qty Roeser/1483 Winterset 2720415 B06 Roof Special 3 Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

4-3-0

10-9-8

4-3-0

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVIGES2 LEE'S SUMMIT. MISSOURI

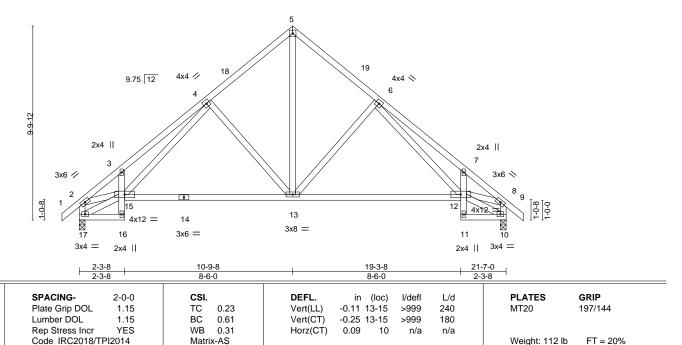
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Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

4-3-0 4-3-0

Scale = 1:58.2 4x4 =



**BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

LOADING (psf)

**TCLL** 

TCDL

**BCLL** 

BCDL

WEBS

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

25.0

10.0

0.0

10.0

2x4 SPF No.2 REACTIONS. 17=0-3-8, 10=0-3-8 (size)

Max Horz 17=-279(LC 10) Max Uplift 17=-158(LC 12), 10=-158(LC 13) Max Grav 17=1030(LC 1), 10=1030(LC 1)

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

2-3=-1537/295, 3-4=-1656/437, 4-5=-911/233, 5-6=-911/243, 6-7=-1656/322, TOP CHORD

2-3-8 2-3-8

7-8=-1537/190, 2-17=-1005/212, 8-10=-1005/165

BOT CHORD 13-15=-155/933, 12-13=-52/866

WFBS 5-13=-185/734, 6-13=-386/236, 6-12=-157/550, 4-13=-413/254, 4-15=-251/691,

15-17=-220/299, 2-15=-189/1108, 8-12=-110/1108

### 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-0-10. Interior(1) 2-0-10 to 10-9-8. Exterior(2R) 10-9-8 to 13-9-8, Interior(1) 13-9-8 to 22-5-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 17=158, 10=158.
- 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.





RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Roeser/1483 Winterset AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVIGES3 2720415 B07 Common LEE'S SUMMIT. MISSOURI Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Mar 22 2021 MiTek Industries, Inc 19 09 34-39 2021 Rage Mon Apr ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-TsM?YAcoQHS9zpx; ws?TH Du6f ?P?z6XwLygeldzfBdc 16-0-8 2-5-8

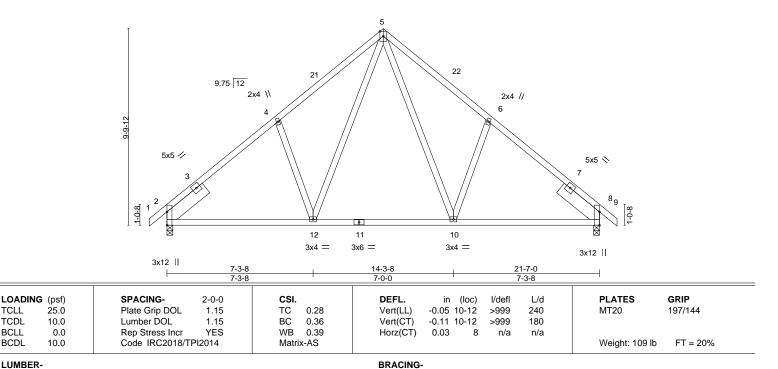
5-3-0

Scale = 1:57.5 4x6 ||

5-6-8

Structural wood sheathing directly applied.

Rigid ceiling directly applied.



TOP CHORD

BOT CHORD

5-3-0

LUMBER-

**TCLL** 

TCDL

**BCLL** 

BCDL

WEBS

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

2x4 SPF No.2

**SLIDER** Left 2x8 SP 2400F 2.0E -t 2-6-0, Right 2x8 SP 2400F 2.0E -t 2-6-0

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

Max Horz 2=248(LC 11)

Max Uplift 2=-156(LC 12), 8=-156(LC 13) Max Grav 2=1033(LC 1), 8=1033(LC 1)

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

TOP CHORD 2-4=-1098/209, 4-5=-1012/313, 5-6=-1012/313, 6-8=-1098/209

**BOT CHORD** 2-12=-180/840, 10-12=-16/579, 8-10=-67/783

WFBS 5-10=-218/460, 6-10=-309/268, 5-12=-218/460, 4-12=-309/268

## 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=25ft; 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 10-9-8, Exterior(2R) 10-9-8 to 13-9-8, Interior(1) 13-9-8 to 22-5-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=156, 8=156
- 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.



April 20,2021





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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or 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 Roeser/1483 Winterset 2720415 B08 Common Supported Gable

10-9-8

Valley Center, KS - 67147,

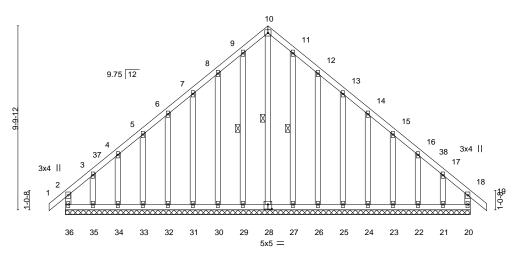
RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVIGES4 LEE'S SUMMIT. MISSOURI

10-9-8

Job Reference (optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 1909/3444 2031 Rags 1
ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-qq9ucugxFp4S4aqpjPbe\_ivrkGm/ff2G4dgR\_//12 PB-jc

Scale = 1:61.4 4x4 =



21-7-0

_Plate Off	sets (X,Y)	[28:0-2-8,0-3-0]										
LOADIN TCLL	<b>G</b> (psf) 25.0	SPACING- Plate Grip DOL	2-0-0 1.15	CSI.	0.10	DEFL. Vert(LL)	in -0.00	(loc) 19	l/defl n/r	L/d 120	PLATES MT20	<b>GRIP</b> 197/144
TCDL BCLL	10.0	Lumber DOL Rep Stress Incr	1.15 1.15 YES	BC WB	0.10 0.09 0.14	Vert(CT) Horz(CT)	-0.00 -0.01	19 20	n/r n/a	120 120 n/a	IVITZO	191/144
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-R						Weight: 150 lb	FT = 20%

LUMBER-

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

Builders FirstSource (Valley Center),

2x4 SPF No.2 **OTHERS** 2x4 SPF No.2 BRACING-

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

except end verticals.

**BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing. 10-28, 9-29, 11-27 **WEBS** 1 Row at midpt

REACTIONS. All bearings 21-7-0.

Max Horz 36=-279(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 29, 30, 31, 32, 33, 34, 27, 26, 25, 24, 23, 22 except 36=-168(LC

8), 20=-119(LC 9), 35=-196(LC 12), 21=-181(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 20, 29, 30, 31, 32, 33, 34, 35, 27, 26, 25, 24, 23, 22, 21

except 36=257(LC 20), 28=284(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 8-9=-169/314, 9-10=-183/342, 10-11=-183/342, 11-12=-169/314

**WEBS** 10-28=-346/148

## 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 10-9-8, Corner(3R) 10-9-8 to 13-9-8, Exterior(2N) 13-9-8 to 22-5-8 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) 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) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 29, 30, 31, 32, 33, 34, 27, 26, 25, 24, 23, 22 except (jt=lb) 36=168, 20=119, 35=196, 21=181.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





Job Truss Truss Type Qty Roeser/1483 Winterset 2720415 C01 Roof Special Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES5

LEE'S SUMMIT. MISSOURI

Scale = 1:62.5

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09/34-46/2021- 2age ; ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-mCHf0ahBnQLAJuzCqqd63 (?) 93 O/7yzZYy9 QzZFBd -0-10-8 0-10-8 5-7-0 1-0-0 5-5-4 6-8-4

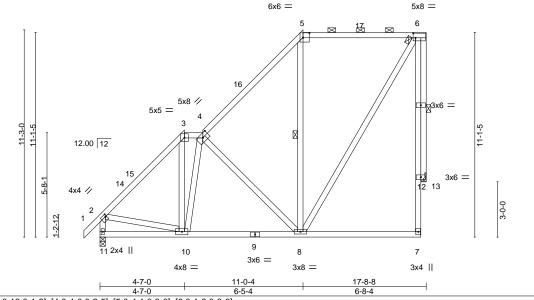


Plate Offsets (X,Y)--[2:0-0-12,0-1-8], [4:0-4-0,0-2-5], [5:0-4-1,0-3-0], [6:0-1-8,0-3-0] SPACING-**PLATES GRIP** LOADING (psf) DEFL. in (loc) I/def L/d TCLL 25.0 Plate Grip DOL 1.15 TC 0.61 Vert(LL) -0.04 7-8 >999 240 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 ВС 0.34 Vert(CT) -0.09 7-8 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.69 Horz(CT) -0.13 n/a 13 n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Matrix-MS Weight: 119 lb

LUMBER-

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

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4, 5-6.

**BOT CHORD** Rigid ceiling directly applied or 8-1-12 oc bracing. **WEBS** 5-8, 6-13 1 Row at midpt

REACTIONS. (size) 11=0-3-8, 13=Mechanical

Max Horz 11=364(LC 12)

Max Uplift 11=-48(LC 12), 13=-214(LC 12) Max Grav 11=857(LC 1), 13=756(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-814/35, 3-4=-495/94, 4-5=-577/80, 5-6=-320/140, 2-11=-819/70 TOP CHORD

**BOT CHORD** 10-11=-531/407 8-10=-343/562

**WEBS** 3-10=-2/341, 4-10=-327/18, 4-8=-364/254, 6-8=-250/563, 2-10=0/402, 6-13=-756/258

- 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=25ft; 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 4-7-0, Exterior(2E) 4-7-0 to 5-7-0, Interior(1) 5-7-0 to 11-0-4, Exterior(2R) 11-0-4 to 14-0-4, Interior(1) 14-0-4 to 17-3-4 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Roeser/1483 Winterset AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES6 2720415 C02 PIGGYBACK BASE LEE'S SUMMIT. MISSOURI Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Am 19 09/31-48 2021 Page 1 ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-jbPPRFjSJ2buYE7byFfatYH13abeWs FgfSz PB) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

5-4-5

4-7-0 1-0-0

Scale = 1:56.5 6x6 = 5x8 = 6 17 🖂 3x6 = 5x8 // 5x5 = 10-2-1 10-0-6 12.00 12 3x6 =13 3x6 / 1-8-1 1-2-12 9 10 8 7 3x6 = 2x4 || 3x4 II 9-11-5 3-7-0 1-0-0 [4:0-4-0,0-2-5], [5:0-4-1,0-3-0], [6:0-1-8,0-3-0]

LOADING (P	ST)	SPACING-	2-0-0	CSI.		DEFL.	ın	(IOC)	ı/aeti	L/a	PLATES	GRIP
TCLL 25	5.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.08	7-8	>999	240	MT20	197/144
TCDL 10	0.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.17	7-8	>999	180		
BCLL (	0.0	Rep Stress Incr	YES	WB	0.70	Horz(CT)	-0.14	13	n/a	n/a		
BCDL 10	0.0	Code IRC2018/TF	PI2014	Matri	x-S						Weight: 111 lb	FT = 20%

LUMBER-

Plate Offsets (X,Y)--

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

TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-9-13 max.): 3-4, 5-6.

**BOT CHORD** Rigid ceiling directly applied or 8-8-13 oc bracing. **WEBS** 1 Row at midpt

REACTIONS. (size) 11=0-3-8, 13=Mechanical

Max Horz 11=321(LC 12)

Max Uplift 11=-66(LC 12), 13=-190(LC 9) Max Grav 11=857(LC 1), 13=756(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-789/58, 3-4=-485/94, 4-5=-649/96, 5-6=-375/147, 2-11=-832/86 TOP CHORD

**BOT CHORD** 10-11=-461/334, 8-10=-357/599

**WEBS** 3-10=-51/404, 4-10=-462/71, 4-8=-325/237, 6-8=-227/543, 2-10=0/469, 6-13=-757/234

- 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=25ft; 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 3-7-0, Exterior(2E) 3-7-0 to 4-7-0, Interior(1) 4-7-0 to 9-11-5, Exterior(2R) 9-11-5 to 12-11-5, Interior(1) 12-11-5 to 17-3-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 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) 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 Roeser/1483 Winterset 2720415 C03 PIGGYBACK BASE Job Reference (optional)

Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVIGES7

LEE'S SUMMIT. MISSOURI

8.430 s Mar 22 2021 MTek Industries, Ind. Mon Am 19 09/31/49/207 ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-Bnznfbj44LjlALin VyAphldZ3HF UKKKZEUNC 19 09 34 49 2021 Rage

11-1-0 11-11-5 2-0-0 0-10-5 3-7-0 1-0-0 5-6-0

5x5 = 5x8 = Scale = 1:56.6 5x5 = 8 20 5x5 = 3x6 = 10-2-1 10-0-6 5x8 // 5x5 = 12.00 12 3x6 =16 3x6 / 12 11 9 13 10 3x6 = 2x4 || 2x4 || 11-1-0 11-11-5 17-8-8 9-1-0 1-0-0 2-0-0 0-10-5 5-6-0

Plate Off	fsets (X,Y)	[4:0-4-0,0-2-5], [8:0-1-8,0-	-3-0]								
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 0.4	3	Vert(LL)	-0.05 11-13	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0.3	1	Vert(CT)	-0.10 11-13	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB 0.5	8	Horz(CT)	-0.11 16	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	12014	Matrix-S						Weight: 136 lb	FT = 20%

LUMBER-

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

Builders FirstSource (Valley Center),

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-10-8 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4, 5-6, 7-8. Rigid ceiling directly applied or 6-0-0 oc bracing.

**BOT CHORD WEBS** 

7-10, 6-10 1 Row at midpt

REACTIONS. (size) 14=0-3-8, 16=Mechanical

Max Horz 14=321(LC 12)

Max Uplift 14=-80(LC 12), 16=-199(LC 12) Max Grav 14=857(LC 1), 16=756(LC 1)

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

 $2 - 3 = -747/62, \ 3 - 4 = -470/80, \ 4 - 5 = -705/83, \ 5 - 6 = -402/158, \ 6 - 7 = -360/121, \ 7 - 8 = -326/124, \ 7 - 8 =$ TOP CHORD 2-14=-857/77

**BOT CHORD** 13-14=-441/296, 11-13=-391/658, 10-11=-184/353

**WEBS** 3-13=-92/467, 4-13=-600/125, 4-11=-321/222, 6-11=-205/257, 8-10=-223/594,

2-13=0/525, 6-10=-380/239, 8-16=-757/235

- 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=25ft; 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 2-7-0, Exterior(2E) 2-7-0 to 3-7-0, Interior(1) 3-7-0 to 9-1-0, Exterior(2E) 9-1-0 to 11-1-0, Interior(1) 11-1-0 to 11-11-5, Exterior(2R) 11-11-5 to 14-11-5, Interior(1) 14-11-5 to 17-3-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14 except (jt=lb) 16=199.
- 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.





Job Truss Truss Type Qty Roeser/1483 Winterset 2720415 C04 Piggyback Base Job Reference (optional) RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES8

LEE'S SUMMIT. MISSOURI

Scale = 1:57.4

8.430 s Mar 22 2021 MiTek Industries, Ind. Mon Apr 19 09 3 15 1 2021 Flags ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-7A4Y4HlKczzSQfsAdNDHnAj Wt5pop6ih cs/33zFBo 19 09/34-51/2021-Rage

Valley Center, KS - 67147,

-0-10-8 1-7-0 2-7-0 0-10-8 1-7-0 1-0-0 11-11-5 10-1-0 5-6-0 2-0-0 5-9-3

5x5 =

8 18 ⋈ 5x5 = 5x5 = 3x6 = 10-2-1 10-0-6 10-0-6 5x8 // 5x5 = 12.00 12 3x6 16 3x6 / 2-8-1 1-2-12  $\mathbb{R}$ 12 13 11 10 9 3x8 = 3x6 =3x8 3x8 = 2x4 || 1-7-0 1-7-0 10-1-0 11-11-5 1-10-5 2-7-0 1-0-0 8-1-0 17-8-8

	10010 (71, 17	[1:0 1 0;0 2 0]; [0:0 1 0;0 0 0]			
LOADIN	IG (psf)	SPACING- 2-0-0	CSI.	<b>DEFL.</b> in (loc) I/defl L/d	PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.44	Vert(LL) -0.04 11-13 >999 240	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.32	Vert(CT) -0.09 11-13 >999 180	
BCLL	0.0	Rep Stress Incr YES	WB 0.58	Horz(CT) -0.11 16 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-MS		Weight: 129 lb FT = 20%

LUMBER-

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

Builders FirstSource (Valley Center),

BRACING-

**WEBS** 

TOP CHORD Structural wood sheathing directly applied or 5-7-1 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4, 5-6, 7-8. **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing.

1 Row at midpt

6-10, 7-10

5x8 =

REACTIONS. (size) 14=0-3-8, 16=Mechanical

Plate Offsets (X Y)-- [4:0-4-0 0-2-5] [8:0-1-8 0-3-0]

Max Horz 14=320(LC 12)

Max Uplift 14=-80(LC 12), 16=-199(LC 12) Max Grav 14=857(LC 1), 16=756(LC 1)

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

 $2 - 3 = -632/45, \ 3 - 4 = -400/43, \ 4 - 5 = -771/69, \ 5 - 6 = -447/146, \ 6 - 7 = -459/121, \ 7 - 8 = -324/123, \ 7 - 8 =$ TOP CHORD

2-14=-887/60

13-14=-427/279, 11-13=-428/713, 10-11=-216/420

**BOT CHORD WEBS** 3-13=-111/427, 4-13=-723/166, 4-11=-306/214, 6-10=-451/252, 8-10=-223/593,

2-13=0/559, 8-16=-757/237

- 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-7-0, Interior(1) 2-7-0 to 8-1-0, Exterior(2E) 8-1-0 to 10-1-0, Interior(1) 10-1-0 to 11-11-5, Exterior(2R) 11-11-5 to 14-11-5, Interior(1) 14-11-5 to 17-3-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14 except (jt=lb) 16=199.
- 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.





Job Truss Truss Type Qty Roeser/1483 Winterset 2720415 C05 PIGGYBACK BASE Job Reference (optional)

Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVIGES9 LEE'S SUMMIT. MISSOURI

Scale = 1:58.2

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Am 19 09/31-55/2021 Rage / ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-?xK2vforfBTuuG\$ ksDHDv01a6 J\$ksteuccqxCzzfBby

0-7-0



18\_\_ 8 5x5 = 5x5 = 3x6 = 10-0-6 X 5<del>13</del>.00 12 5x8 / 3x6 = 3x6 || 16 1-8-1 1-2-12 12 13 11 10 q

3x8 =

1-7-0 7-1-0 11-11-5 9-1-0 5-6-0

Plate Off	sets (X,Y)	[2:0-3-4,0-1-8], [3:0-3-4,1	Edge], [4:0-4-0	,0-2-5], [8:0-	1-8,0-3-0]							
LOADING TCLL TCDL BCLL	<b>G</b> (psf) 25.0 10.0 0.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC BC WB	0.47 0.28 0.58	DEFL. Vert(LL) Vert(CT) Horz(CT)	(loc) 9-10 11-13 16	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	<b>GRIP</b> 197/144	
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-S					Weight: 121 lb	FT = 20%	

4x8 =

LUMBER-

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

Builders FirstSource (Valley Center),

BRACING-

**WEBS** 

TOP CHORD **BOT CHORD** 

Structural wood sheathing directly applied or 5-3-6 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4, 5-6, 7-8.

2x4 |

Rigid ceiling directly applied or 6-0-0 oc bracing. 1 Row at midpt

REACTIONS. (size) 14=0-3-8, 16=Mechanical

Max Horz 14=378(LC 12)

Max Uplift 14=-75(LC 12), 16=-204(LC 12) Max Grav 14=857(LC 1), 16=756(LC 1)

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

2-3=-627/34, 3-4=-708/86, 4-5=-833/50, 5-6=-491/134, 6-7=-493/96, 7-8=-325/119, TOP CHORD

2-14=-852/58

13-14=-334/137, 11-13=-442/764, 10-11=-205/488

**BOT CHORD WEBS** 4-13=-580/130, 4-11=-306/202, 6-10=-451/244, 8-10=-224/591, 2-13=-121/1040,

8-16=-757/234

- 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 1-7-0, Interior(1) 1-7-0 to 7-1-0, Exterior(2E) 7-1-0 to 9-1-0, Interior(1) 9-1-0 to 11-11-5, Exterior(2R) 11-11-5 to 14-11-5, Interior(1) 14-11-5 to 17-3-4 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

3x6 =

2x4 | | 4x4 =

- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14 except (jt=lb) 16=204.
- 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.





Job Truss Truss Type Qty Roeser/1483 Winterset 2720415 C06 Piggyback Base Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

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

Scale = 1:57.4

8.430 s Mar 22 2021 MiTek Industries, Ind. Mon Apr 1909/2766/2021 Rags ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-U8uR7\_pTQVblWQk7QxoSTDQrrQ5pgf7y21rl/a/ky2P8g 19 09 34-56 2021 Rage

16-8-8 2-0-0 3-10-5 5-9-3

5x5 = 5x8 = 5 16<sub>⊠</sub> 6x6 = 5x5 = 3x6 =  $\bowtie$ 12.00 12 10-0-6 10-0-6 3x6 12 1-2-12 Ø 8 7 9 6 \_ 3x6 = 2x4 || 3x8 = 3x4 || 7-1-0 10-11-5 16-8-8

Plate Of	fsets (X,Y)	[1:0-0-12,0-1-8], [5:0-1-8,	0-3-0]									
LOADIN	G (nef)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	-0.02	6-7	>999	240	MT20	197/144
				1		- ' '					IVITZU	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.05	6-7	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.53	Horz(CT)	-0.11	12	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-MS						Weight: 111 lb	FT = 20%

LUMBER-

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

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-3, 4-5.

**BOT CHORD** Rigid ceiling directly applied or 8-6-15 oc bracing. **WEBS** 4-7 1 Row at midpt

REACTIONS. (size) 10=0-3-8, 12=Mechanical

Max Horz 10=285(LC 12)

Max Uplift 10=-39(LC 12), 12=-196(LC 12) Max Grav 10=739(LC 1), 12=713(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 1-2=-760/43, 2-3=-452/116, 3-4=-509/89, 4-5=-301/123, 1-10=-695/56 TOP CHORD

**BOT CHORD** 9-10=-478/377 7-9=-289/503

**WEBS** 3-7=-379/230, 5-7=-235/549, 1-9=-16/352, 5-12=-714/249

- 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=25ft; 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 5-1-0, Exterior(2E) 5-1-0 to 7-1-0, Interior(1) 7-1-0 to 10-11-5, Exterior(2R) 10-11-5 to 13-11-5, Interior(1) 13-11-5 to 16-3-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 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) 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 Roeser/1483 Winterset 2720415 C07 Roof Special Job Reference (optional) RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVIGES1

LEE'S SUMMIT. MISSOURI

Scale = 1:67.3

Mon Apri 19 09 34-57 2021 Rage Kh?Rz\(P)/6 C/MB38 dyRzPto)

Valley Center, KS - 67147, ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-yKSpKKq5Bpjc8aJJ\_e 2-0-0

5x5 = 5x8 = 3x6 =6x6 = 4x4 = 11-0-1 12.00 12 3x6 = 16 9 11 2x4 || 3x8 = 13 2x4 || 2x4 ||

5-10-0

	4-3-8	<sub>1</sub> 6-1-0 <sub>1</sub>	11-11-0	14-8-8	16-8-8	
'	4-3-8	1-9-8	5-10-0	2-9-8	2-0-0	
[2:0.2.0.0.1.14] [4:0.2.0.Edga] [	1 [0 2 0 2 1 0:3	12.0 2 9 0 2 0				

Plate Offsets (X, Y)	[3:0-2-0,0-1-14], [4:0-3-0,Edge], [6:0-1-	8,0-3-0], [12:0-2-8,0-2-0]		
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 0.48	Vert(LL) -0.11 11-12 >999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.51	Vert(CT) -0.23 11-12 >849 180	
BCLL 0.0	Rep Stress Incr YES	WB 0.53	Horz(CT) 0.03 16 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS		Weight: 117 lb FT = 20%

LUMBER-

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

Builders FirstSource (Valley Center),

BRACING-

TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4, 5-6.

**BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing. 1 Row at midpt **WEBS** 5-11, 6-16

2x4 ||

8.430 s Mar 22 2021 MiTek Industries, Inc

16-8-8

14-8-8

2-9-8

REACTIONS. (size) 14=0-3-8, 16=Mechanical

Max Horz 14=360(LC 12)

Max Uplift 14=-44(LC 12), 16=-233(LC 12) Max Grav 14=810(LC 1), 16=710(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-896/142, 3-4=-586/165, 4-5=-538/35, 5-6=-281/121, 2-14=-781/164 TOP CHORD

**BOT CHORD** 11-12=-430/718

**WEBS** 3-12=-52/399, 4-12=-317/0, 4-11=-532/316, 6-11=-267/601, 12-14=-531/391,

2-12=0/472, 6-16=-710/271

## 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-1-0, Exterior(2E) 4-1-0 to 6-1-0, Interior(1) 6-1-0 to 11-11-0, Exterior(2R) 11-11-0 to 14-11-0, Interior(1) 14-11-0 to 16-3-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14 except (jt=lb) 16=233.
- 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.



April 20,2021



Job Truss Truss Type Qty Roeser/1483 Winterset 2720415 C08 Roof Special Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVIGES2

LEE'S SUMMIT. MISSOURI

Scale = 1:61.3

Job Reference (optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09 34-58 2021 Page 1

ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-QW0BYgqjy6rTlku VXLrwYeV5M 7Nyzyk 03BpztB3V

10-11-0 5-10-0

5x5 = 5x8 = 21 🖂 3x6 =2x4 II 5x8 // 10-1-12 5x5 = 10-0-1 12.00 12 3x6 =18 3x6 // 4-2-1 10 12 6x8 **⊠** 16 3x8 =15 14 8 2x4 || 2x4 || 2x4 || 2x4 || 3x8 =

3-1-0 3-1-0 10-11-0 16-8-8 Plate Offsets (X V)-- [5:0-4-0 0-2-5] [7:0-1-8 0-3-0] [13:0-2-12 0-2-0]

i late Olisets (A, i )	idite Offsets (X, 1) [3.0-4-0,0-2-0], [1.0-1-0,0-3-0], [10.0-2-12,0-2-0]										
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 0.47	Vert(LL) -0.05 12-13 >999 240	MT20 197/144							
TCDL 10.0	Lumber DOL 1.15	BC 0.39	Vert(CT) -0.11 12-13 >999 180								
BCLL 0.0	Rep Stress Incr YES	WB 0.51	Horz(CT) 0.04 18 n/a n/a								
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS		Weight: 113 lb FT = 20%							

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5, 6-7.

**BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing. **WEBS** 1 Row at midpt

REACTIONS. (size) 16=0-3-8, 18=Mechanical

Max Horz 16=319(LC 12)

Max Uplift 16=-63(LC 12), 18=-195(LC 12) Max Grav 16=812(LC 1), 18=711(LC 1)

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

 $2-3=-718/58,\ 3-4=-747/167,\ 4-5=-766/170,\ 5-6=-624/63,\ 6-7=-343/141,\ 2-16=-786/83$ TOP CHORD

**BOT CHORD** 15-16=-457/326. 12-13=-487/905

**WEBS** 3-15=-479/264, 13-15=-438/673, 3-13=-214/792, 5-13=-448/135, 5-12=-633/327,

7-12=-248/571, 2-15=0/448, 7-18=-711/246

### 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=25ft; 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 3-1-0, Exterior(2E) 3-1-0 to 5-1-0, Interior(1) 5-1-0 to 10-11-0, Exterior(2R) 10-11-0 to 13-11-0, Interior(1) 13-11-0 to 16-3-4 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 4) The Fabrication Tolerance at joint 5 = 16%
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16 except (jt=lb) 18=195.
- 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.



April 20,2021

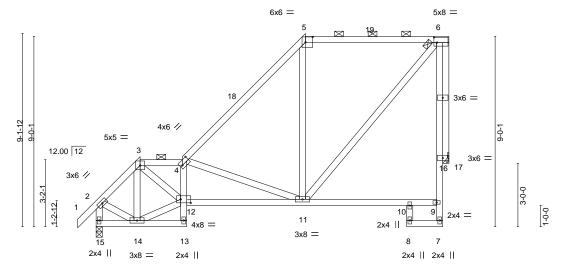


Job Truss Truss Type Qty Roeser/1483 Winterset 2720415 C09 Roof Special Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09/32/00/2021 Page : ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-Mv7xyMszUk5B?12 fmtOd3pcW BHP. cdm 5 yttp://FBdT Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES3 LEE'S SUMMIT. MISSOURI

Scale = 1:54.6

4-1-0 4-3<sub>-</sub>8 2-0-0 0-2-8 -0-10-8 2-1-0 0-10-8 2-1-0 14-8-8 16-8-8 5-7-8 4-9-8 2-0-0



2-1-0 2-1-0 16-8-8 2-2-8 Plate Offsets (X,Y)-- [4:0-4-12,0-2-4], [5:0-4-1,0-3-0], [6:0-1-8,0-3-0], [12:0-5-12,0-2-0]

LOADING	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	0.62	Vert(LL)	-0.04 10-11	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.09 10-11	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.04 17	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI	2014	Matri	x-MS					Weight: 102 lb	FT = 20%

LUMBER-

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

Structural wood sheathing directly applied or 5-7-14 oc purlins, except end verticals, and 2-0-0 oc purlins (5-4-15 max.): 3-4, 5-6. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

8-1-3 oc bracing: 11-12 6-0-0 oc bracing: 7-8.

REACTIONS. (size) 15=0-3-8, 17=Mechanical

Max Horz 15=335(LC 12)

Max Uplift 15=-74(LC 12), 17=-166(LC 12) Max Grav 15=812(LC 1), 17=711(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-639/75, 3-4=-1177/250, 4-5=-718/88, 5-6=-412/159, 2-15=-792/89 TOP CHORD

**BOT CHORD** 14-15=-342/213, 4-12=-394/46, 11-12=-532/1229

**WEBS** 3-14=-380/135, 12-14=-299/434, 3-12=-222/988, 6-11=-228/559, 2-14=0/472,

4-11=-863/408, 6-17=-712/217

## 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 4-1-0, Interior(1) 4-1-0 to 9-11-0, Exterior(2R) 9-11-0 to 12-11-0, Interior(1) 12-11-0 to 16-3-4 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
- Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 20,2021





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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or 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 Roeser/1483 Winterset 2720415 C10 Roof Special Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19(9)/32/01/2021 R ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-q5hKAitcF1D2cBd5L UOdAH7VZ6Utbo2m\_rhlrQCP Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVIGES4 LEE'S SUMMIT. MISSOURI

19 09/32 01 2021 Rage

Scale = 1:48.6

3-1-0 2-0-0 -0-10-8 1-1-0 0-10-8 1-1-0 + 4-3-8 1-2-8 16-8-8 4-7-8 5-9-8 2-0-0

6x6 = 5x8 = 6 3x6 =4x8 // 8-0-1 5 12.00 12 18 2x4 10 1-0-0 3x4 =12 6x8 = 2x4 || 3x8 = 15 14 9 8 16 3x4 =5x8 = 2x4 | |2x4 || 2x4 ||

3-1-0 2-0-0 1-1-0 8-11-0 14-8-8 16-8-8 1-2-8 4-7-8 Plate Offsets (X,Y)-- [6:0-4-1.0-3-0], [7:0-1-8.0-3-0], [13:0-5-8.0-4-12]

Tiato Oliooto (X,T)	[0.0 1 1,0 0 0], [1.0 1 0,0 0 0], [10.0 0 1	5,0 1 1 <u>L</u> ]		
LOADING (psf)	SPACING- 2-0-0	CSI.	<b>DEFL.</b> in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.85	Vert(LL) -0.08 11-12 >999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.47	Vert(CT) -0.16 11-12 >999 180	
BCLL 0.0	Rep Stress Incr YES	WB 0.43	Horz(CT) 0.05 18 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS		Weight: 97 lb FT = 20%

**BOT CHORD** 

LUMBER-BRACING-

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

Structural wood sheathing directly applied or 4-3-9 oc purlins, except end verticals, and 2-0-0 oc purlins (4-1-9 max.): 3-4, 6-7. Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 16=0-3-8, 18=Mechanical

Max Horz 16=242(LC 9)

Max Uplift 16=-92(LC 12), 18=-167(LC 9) Max Grav 16=812(LC 1), 18=711(LC 1)

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

3-4=-861/88, 4-5=-1814/437, 5-6=-792/134, 6-7=-487/164 TOP CHORD **BOT CHORD** 15-16=-338/537, 5-13=-300/960, 12-13=-628/1450

**WEBS** 3-15=-41/757, 4-15=-1509/420, 13-15=-506/1343, 4-13=-233/421, 5-12=-986/439,

7-12=-203/556, 3-16=-689/42, 7-18=-713/197

## 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-1-0, Interior(1) 3-1-0 to 8-11-0, Exterior(2R) 8-11-0 to 11-11-0, Interior(1) 11-11-0 to 16-3-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Roeser/1483 Winterset AS NOTED FOR PLAN REVIEW 2720415 C11 Roof Special Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Ind Builders FirstSource (Valley Center), Valley Center, KS - 67147,

DEVELOPMENT SERVICES5 LEE'S SUMMIT. MISSOURI 8.430 s Mar 22 2021 MiTek Industries, Ind. Mon Apr 19 09 22 03 2021 P ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-mUp4bOusnfUlsVnTkvQ5Fitx wymcgz3S4nyU52 19 09/32:03/2021 Page 0-1-0 7-11-0 |-0-10-8 |-0-10-8 14-8-8 16-8-8 2-0-0 0-1-0 5x5 = 6x6 || Scale = 1:40.2 3x4 = 5  $\square$  $\square$ 12.00 12 3x8 // ,-Oģ 3x6 = 6x6 =4x4 = 1-2-1 11 4x8 = 2x4 || 3x8 = $\mathbb{X}$ 14 13 8 5x8 2x4 || 2x4 || 2x4 | 2x4 | 16-8-8 Plate Offsets (X V)-- [9:0-4-8 0-1-8] [12:0-5-8 0-2-12]

BRACING-

TOP CHORD

1 late 0.13613 (A, 1) [3.0 ± 0,0 ± 0], [12.0 ± 0,0 ± 12]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d		
TOLL OF O	Dieta Cris DOI	4.45	TC 0.40	\/==#/   \	0 40 40 44	. 000	240		

TCLL	25.0	Plate Grip DOL 1.15	TC 0.46	Vert(LL)	-0.12 10-11	>999	240	
TCDL	10.0	Lumber DOL 1.15	BC 0.50	Vert(CT)	-0.24 10-11	>812	180	
BCLL	0.0	Rep Stress Incr YES	WB 0.55	Horz(CT)	-0.04 17	n/a	n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-MS					
				Horz(C1)	-0.04 17	n/a		n/a

Structural wood sheathing directly applied or 4-7-11 oc purlins, except end verticals, and 2-0-0 oc purlins (5-3-7 max.): 1-2, 4-6.

**PLATES** 

Weight: 92 lb

MT20

GRIP

197/144

FT = 20%

**BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 15=0-3-8, 17=Mechanical

2x4 SPF No.2

2x4 SPF No.2

2x4 SPF No.2

2x4 SPF No.2

7-1-12

Max Horz 15=202(LC 9)

Max Uplift 15=-77(LC 12), 17=-165(LC 9) Max Grav 15=739(LC 1), 17=713(LC 1)

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

1-2=-1214/124, 2-3=-1572/331, 3-4=-887/169, 4-5=-556/170, 9-16=-138/583, TOP CHORD

6-16=-138/583, 1-15=-664/88

**BOT CHORD** 14-15=-293/331, 3-12=-181/630, 11-12=-491/1184, 10-11=-189/452, 9-10=-185/502 2-14=-1217/266, 12-14=-435/1400, 2-12=-328/23, 3-11=-662/299, 4-11=-22/318, **WEBS** 

5-9=-618/212, 1-14=-138/1264, 6-17=-715/181

LUMBER-

WEBS

**OTHERS** 

TOP CHORD

**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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 2-1-0, Interior(1) 2-1-0 to 7-11-0, Exterior(2R) 7-11-0 to 10-11-0, Interior(1) 10-11-0 to 16-3-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15 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) 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 Roeser/1483 Winterset 2720415 C12 Half Hip Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Ind. Mon Apr 19 09 22 05 2021 R ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-jsxq03w6JGkT5pws\$kTZK7 G kof-46BMv0G3Z22 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES6 LEE'S SUMMIT. MISSOURI

19 09 32:05 2021 Page

Scale = 1:38.6

3x6 =

12-8-8 14-8-8 4-7-4 2-3-8 2-7-8 3-2-4 2-0-0

6x6 || 5x5 = 3x4 =**≥** 18 5  $\boxtimes$ 12.00 12 3x8 // 6-1-12 3 6-0-1 6-0-1 16 3x6 // 10 0-O-I 11 3x6 =3x4 || 3x8 =14 13 8 7 3x8 = 2x4 || 2x4 2x4 ||

Plate Offsets (X V) [9·0-4-8 0-1

Plate Offsets (A, f)	[9.0-4-0,0-1-0]			
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 0.57	Vert(LL) -0.16 10-11 >999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.57	Vert(CT) -0.31 10-11 >551 180	
BCLL 0.0	Rep Stress Incr YES	WB 0.42	Horz(CT) -0.05 16 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 78 lb FT = 20%

BRACING-

LUMBER-

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

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

REACTIONS. (size) 14=0-3-8, 16=Mechanical

Max Horz 14=196(LC 9)

Max Uplift 14=-74(LC 12), 16=-159(LC 9) Max Grav 14=722(LC 1), 16=620(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  $2-3=-624/163,\ 3-4=-724/216,\ 4-5=-472/204,\ 9-15=-132/470,\ 6-15=-132/470,$ TOP CHORD

2-14=-766/188

**BOT CHORD** 13-14=-299/178, 11-12=-433/493, 10-11=-233/462, 9-10=-218/529 **WEBS** 4-11=-45/269, 2-13=-39/425, 5-9=-529/242, 6-16=-625/184

## 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-12, Interior(1) 2-1-12 to 4-11-0, Exterior(2R) 4-11-0 to 9-1-15, Interior(1) 9-1-15 to 14-3-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14 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) 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.





RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Roeser/1483 Winterset AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 2720415 C13 Half Hip LEE'S SUMMIT. MISSOURI Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Ind. Mon Apr 1909/32/07/2021 Page 1 ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-fF2bQlxMqt\_BK64EZkV1PYNZCXU/YYMM NijedzFBdM Builders FirstSource (Valley Center), Valley Center, KS - 67147, -1-10-8 12-8-8 1-10-8 2-3-8 1-7-8 5-1-4 3-8-4

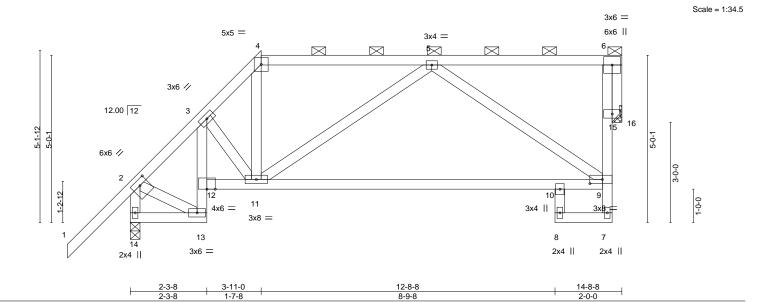


Plate Off	fsets (X,Y)	[2:0-3-0,0-1-15], [9:0-4-8,0-	1-8]			
LOADIN	· · ·		2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC 0.71	Vert(LL) -0.21 10-11 >820 240	MT20 197/144
TCDL	10.0	Lumber DOL	1.15	BC 0.68	Vert(CT) -0.42 10-11 >412 180	
BCLL	0.0	Rep Stress Incr	YES	WB 0.44	Horz(CT) -0.05 16 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2	2014	Matrix-MS		Weight: 75 lb FT = 20%

LUMBER-

REACTIONS.

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

BRACING-

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

(size) 14=0-3-8, 16=Mechanical

Max Horz 14=190(LC 9)

Max Uplift 14=-154(LC 12), 16=-154(LC 9) Max Grav 14=800(LC 1), 16=613(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-580/128, 3-4=-723/179, 4-5=-516/160, 9-15=-93/452, 6-15=-93/452,

2-14=-825/183

**BOT CHORD** 3-12=-312/0, 11-12=-295/563, 10-11=-245/605, 9-10=-218/694 4-11=-38/320, 5-9=-598/234, 2-13=-20/433, 6-16=-624/157

# **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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 3-11-0, Exterior(2R) 3-11-0 to 8-1-15, Interior(1) 8-1-15 to 14-3-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=154, 16=154.
- 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.





Job Truss Truss Type Qty Roeser/1483 Winterset 2720415 C14 Half Hip Girder Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

4-10-6

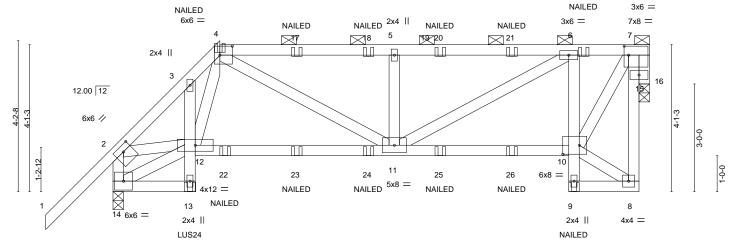
RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES8 LEE'S SUMMIT. MISSOURI

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Ap. 19.09(25) 2.2021 Rage 1 ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-0DsUUT?VfQcURtzCM 5C6b4\$\ Ar Dny2\wasyJ22Ped-12-8-8 4-10-6

12-0-0

14-11-8

Scale: 3/8"=1



		2-3-8		5-6-10		4-10-6		2-3-0	+
Plate Off	sets (X,Y)		4-3,0-3-0], [7:0-1	-8,0-3-0], [10:0-5-8,0-3-0]		4-10-0	,	2-3-0	
LOADIN	G (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) I/d	lefl L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC 0.58	Vert(LL)	0.09 11-12 >9	99 240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0.76	Vert(CT)	-0.17 11-12 >9	99 180		
BCLL	0.0	Rep Stress Inc	r NO	WB 0.41	Horz(CT)	0.06 16	n/a n/a		
BCDL	10.0	Code IRC2018	3/TPI2014	Matrix-MS				Weight: 79 lb	FT = 20%

TOP CHORD

LUMBER-BRACING-

2-11-12 0-8-4

2-3-8

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

**BOT CHORD** 

7-10-2

Structural wood sheathing directly applied or 4-0-14 oc purlins, except end verticals, and 2-0-0 oc purlins (3-6-2 max.): 4-7. Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 14=0-3-8, 16=0-3-8 Max Horz 14=169(LC 5)

1-10-8

Max Uplift 14=-497(LC 8), 16=-405(LC 5) Max Grav 14=1622(LC 1), 16=1344(LC 1)

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

TOP CHORD 2-3=-1922/665, 3-4=-1744/644, 4-5=-2066/663, 5-6=-2066/663, 6-7=-964/290, 2-14=-1591/540

**BOT CHORD** 12-13=-119/287, 11-12=-508/1251, 10-11=-354/1014, 6-10=-1205/461

**WEBS** 4-11=-290/946, 5-11=-619/244, 6-11=-410/1207, 7-10=-545/1688, 4-12=-179/356,

2-12=-400/1318, 7-16=-1394/419

- 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=25ft; 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) Bearing at joint(s) 16 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) except (jt=lb) 14=497, 16=405.
- 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) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent at 2-1-12 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.
- Fill all nail holes where hanger is in contact with lumber.
- 11) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard



April 20,2021

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

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



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty Roeser/1483 Winterset C14 2720415 Half Hip Girder

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVIGES8

LEE'S SUMMIT. MISSOURI

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

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, 4-7=-70, 13-14=-20, 10-12=-20, 8-9=-20

Concentrated Loads (lb)

Vert: 4=-97(F) 13=-273(F) 6=-149(F) 10=-68(F) 17=-97(F) 18=-97(F) 20=-97(F) 21=-97(F) 22=-112(F) 23=-112(F) 24=-112(F) 25=-112(F) 26=-112(F) 26



Job Truss Truss Type Qty Roeser/1483 Winterset 2720415 CJ01 Diagonal Hip Girder Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

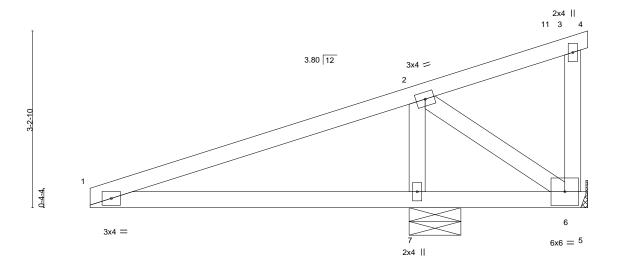
2-9-3

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES9 LEE'S SUMMIT. MISSOURI

6-3-8 3-1-12 3-1-12

19 09/32 14/2021 Rage 1

Scale = 1:21.0



		-	3-0-8	0-5-10	2-9-6	
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 0.61	Vert(LL)	-0.01 6-7	>999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.39	Vert(CT)	0.01 6-7	>999 180	
BCLL 0.0	Rep Stress Incr NO	WB 0.19	Horz(CT)	-0.00 6	n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP				Weight: 30 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.

7=0-11-5, 6=Mechanical (size) Max Horz 7=114(LC 21)

Max Uplift 7=-456(LC 4), 6=-424(LC 1) Max Grav 7=1226(LC 1), 6=165(LC 4)

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

TOP CHORD 1-2=-303/744

**BOT CHORD** 1-7=-645/319, 6-7=-645/205 WEBS 2-7=-1044/394, 2-6=-248/781

# NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; 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) except (jt=lb) 7=456, 6=424
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 52 lb down and 97 lb up at 3-2-3 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, 3-4=-20, 5-8=-20



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

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

April 20,2021





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

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

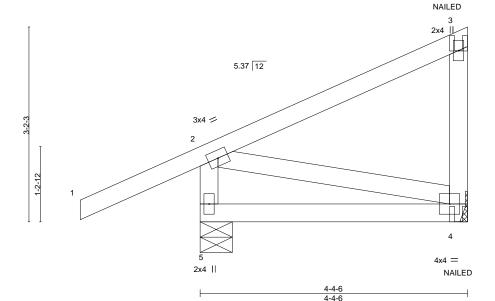


Job Truss Truss Type Qty Roeser/1483 Winterset 2720415 CJ02 Jack-Open Structural Gable Job Reference (optional) Builders FirstSource (Valley Center),

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

Scale = 1:18.8

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19.09(25) 9.2021 Page 2 ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-IZn7ys5u0ZVUr y?YGG u til light 201 Zyb2<u>22</u>t Bi A Valley Center, KS - 67147, 1-11-8 4-4-6



LOADING (psf) SPACING-CSI. DEFL. I/defI L/d **PLATES** GRIP 2-0-0 (loc) 25.0 Plate Grip DOL Vert(LL) -0.02 240 197/144 **TCLL** 1.15 TC 0.32 4-5 >999 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.17 Vert(CT) -0.03 4-5 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.05 Horz(CT) -0.00 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-AS Weight: 21 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, 5=0-6-5 (size) Max Horz 5=135(LC 9) Max Uplift 4=-102(LC 9), 5=-84(LC 12) Max Grav 4=237(LC 1), 5=368(LC 1)

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

TOP CHORD 2-5=-328/328 **BOT CHORD** 4-5=-287/177 WEBS 2-4=-139/256

# NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-11-8 to 2-3-7, Exterior(2R) 2-3-7 to 4-2-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.
- 3) Gable studs spaced at 1-4-0 oc.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 4=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.
- 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) "NAILED" indicates 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

# LOAD CASE(S) Standard

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

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

Vert: 3=-58(B) 4=-34(B)

OF MISS SCOTT M. SEVIER VI III BER PE-2001018807 NSSIONAL .

Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

April 20,2021



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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss 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 Roeser/1483 Winterset 2720415 CJ03 Jack-Open Structural Gable Job Reference (optional) RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES1

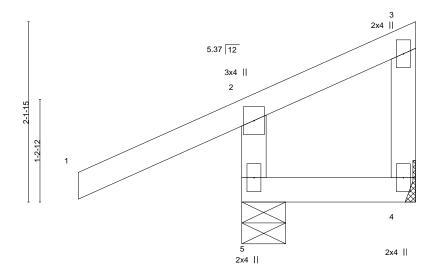
LEE'S SUMMIT. MISSOURI

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Am 19,09/32-20,2021 Page 1 ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-nlLV9C5WntdL06akqzE4RH Clin4b5UPZMI O byzFBd9

Valley Center, KS - 67147,

1-11-8 2-0-15

Scale = 1:13.8



2-0-15 2-0-15

except end verticals.

Structural wood sheathing directly applied or 2-0-15 oc purlins,

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

LOADING (psf)	SPACING- 2-0-0	CSI.	<b>DEFL.</b> in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.33	Vert(LL) -0.00	5	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.05	Vert(CT) -0.00	5	>999	180		
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MR					Weight: 10 lb	FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

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

Builders FirstSource (Valley Center),

2x4 SPF No.2

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

Max Horz 5=110(LC 11)

Max Uplift 4=-36(LC 9), 5=-85(LC 8) Max Grav 4=29(LC 8), 5=314(LC 1)

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

TOP CHORD 2-5=-279/323

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; 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) 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.
- 3) Gable studs spaced at 1-4-0 oc.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

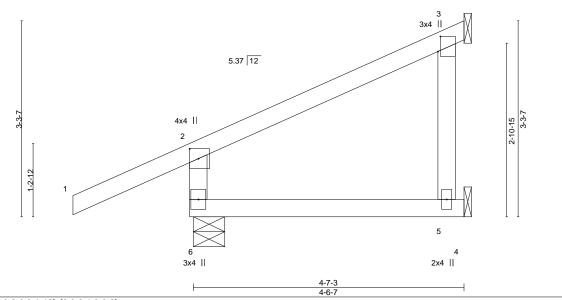




RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Roeser/1483 Winterset AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVIGE92 2720415 CJ04 Jack-Open LEE'S SUMMIT. MISSOURI Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Ind 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr, 19 09/22/22071—Page ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-j8SGat7nIUt3eQk\_rxOGYV(i)Dhaj5Z2vs;[XJSfj2FB]7 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

1-11-8

Scale = 1:19.3



4-7-3

Plate Off	sets (X,Y)	[2:0-2-0,0-1-12], [3:0-3-1,	,0-0-8]									
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.33	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	0.00	Horz(CT)	-0.03	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-MP						Weight: 17 lb	FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

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

WEBS 2x4 SPF No.2

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

Max Horz 6=95(LC 12)

Max Uplift 6=-65(LC 12), 3=-70(LC 12)

Max Grav 6=371(LC 1), 5=88(LC 3), 3=113(LC 1)

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

TOP CHORD 2-6=-326/308

#### 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-11-8 to 2-3-7, Exterior(2R) 2-3-7 to 4-3-11 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 grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



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

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

except end verticals.

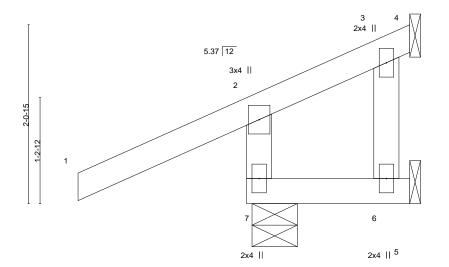


Job Truss Truss Type Qty Roeser/1483 Winterset 2720415 CJ05 Jack-Open Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVIGE93 LEE'S SUMMIT. MISSOURI

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09 32 29 2021 F agg / ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-0UNv2HCAfel3zVmTsMuClBHCbF7fYPTuQ14kPzzFBgQ 1-11-8 1-10-12

Scale = 1:13.4



			<u>-</u>	1-9-15		<u> </u>		
LOADING (psf) TCLL 25.0	SPACING- 2-0-0 CSI. Plate Grip DOL 1.15 TC	0.33	DEFL. Vert(LL) 0.	in (loc)	l/defl >999	L/d 240	PLATES MT20	<b>GRIP</b> 197/144
TCDL 10.0 BCLL 0.0	Lumber DOL 1.15 BC Rep Stress Incr YES WB	0.07 0.01	- ' '	.00 6	>999 n/a	180 n/a	WITZO	131/144
BCDL 10.0		rix-MP	11012(01) 0.	.01	11/4	11/4	Weight: 10 lb	FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

1-10-12

except end verticals.

Structural wood sheathing directly applied or 1-10-12 oc purlins,

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

LUMBER-

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

REACTIONS.

4=Mechanical, 5=Mechanical, 7=0-6-5 (size) Max Horz 7=59(LC 11)

Max Uplift 4=-20(LC 12), 5=-46(LC 1), 7=-66(LC 8) Max Grav 4=34(LC 1), 5=23(LC 8), 7=314(LC 1)

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

TOP CHORD 2-7=-284/307

# NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5, 7.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





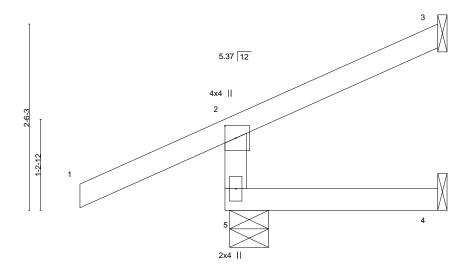
Job Truss Truss Type Qty Roeser/1483 Winterset 2720415 CJ06 Jack-Open Job Reference (optional) RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES4

LEE'S SUMMIT. MISSOURI

19|09|3<del>2|</del>36|20**71|--**|}age 1

Valley Center, KS - 67147, 2-10-7 2-10-7 1-11-8

Scale = 1:15.5



2-10-7

except end verticals.

Plate Offsets (X,Y)	[2:0-2-0,0-1-12]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.33	Vert(LL) -0.00 4-5 >999 240 MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.09	Vert(CT) -0.00 4-5 >999 180	
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.01 3 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MR	Weight: 10 lb	FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

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

Builders FirstSource (Valley Center),

WEBS 2x4 SPF No.2

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

Max Horz 5=72(LC 9)

Max Uplift 5=-62(LC 12), 3=-41(LC 12) Max Grav 5=325(LC 1), 3=49(LC 1), 4=46(LC 3)

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

TOP CHORD 2-5=-284/286

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-11-8 to 2-3-7, Exterior(2R) 2-3-7 to 2-9-11 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 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.



Structural wood sheathing directly applied or 2-10-7 oc purlins,

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







Job Truss Truss Type Qty Roeser/1483 Winterset 2720415 D01 Piggyback Base Job Reference (optional)

Valley Center, KS - 67147,

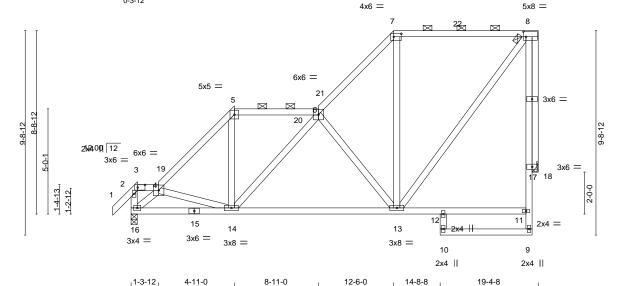
RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVIGES5 LEE'S SUMMIT, MISSOURI

19 09/32-38/2021 Page

Scale = 1:54.8

8.430 s Mar 22 2021 MTek Industries, Inc. Mon Apr 19109/32-38/2021-9: ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-FDQJxMJpXPuqYtyCtlZ A) 91 J 17 v f ct Vyli 22

0-3-12 -0-10-8 1-3-12 0-10-8 1-0-0 4-11-0 8-11-0 19-4-8 14-8-8 0-3-12



4-0-0 Plate Offsets (X,Y)-- [3:0-4-3,0-1-8], [7:0-4-4,0-1-12], [8:0-1-8,0-3-0]

LOADING (	(psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l	/defl L/d	PLATES GRIP
TCLL 2	25.0	Plate Grip DOL 1.15	TC 0.64	Vert(LL) -0.08 13-14 >	999 240	MT20 197/144
TCDL '	10.0	Lumber DOL 1.15	BC 0.44	Vert(CT) -0.17 13-14 >	999 180	
BCLL	0.0	Rep Stress Incr YES	WB 0.66	Horz(CT) 0.04 18	n/a n/a	
BCDL '	10.0	Code IRC2018/TPI2014	Matrix-MS			Weight: 119 lb FT = 20%

LUMBER-

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

Builders FirstSource (Valley Center),

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-8-4 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4, 5-6, 7-8. **BOT CHORD** 

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

REACTIONS. (size) 16=0-3-8, 18=Mechanical

Max Horz 16=266(LC 12)

Max Uplift 16=-123(LC 12), 18=-170(LC 12) Max Grav 16=924(LC 1), 18=831(LC 1)

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

4-5=-1041/115, 5-6=-666/146, 6-7=-730/101, 7-8=-458/128 TOP CHORD

**BOT CHORD** 14-16=-456/812 13-14=-306/850

WEBS 5-14=0/395, 6-14=-279/41, 6-13=-636/239, 8-13=-196/682, 4-16=-1132/175,

8-18=-832/201

# NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 1-3-12, Interior(1) 1-3-12 to 4-11-0, Exterior(2R) 4-11-0 to 7-11-0, Interior(1) 7-11-0 to 12-6-0, Exterior(2R) 12-6-0 to 15-6-0, Interior(1) 15-6-0 to 18-11-4 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 DOI = 1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=123, 18=170
- 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.









Job Truss Truss Type Qty Roeser/1483 Winterset 2720415 D02 PIGGYBACK BASE Job Reference (optional)

Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES6

LEE'S SUMMIT. MISSOURI

Scale = 1:54.8

8.430 s Mar 22 2021 MiTek Industries, Ind. Mon Apr 19 09/32/39/2021 Rage 1 ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-jP\_h8hKRIj0eA12 ORT4Y II4qRWD27HN jg/skzzl/Bls 19-4-8 9-11-0 14-8-8

-0-10-8 2-3-12 0-10-8 1-3-12 1-0-0 12-6-0 2-7-0 6x6 // 5x8 =

10 23 5x5 = 6x6 =6x6 = 5x5 = 3x6 = 8-8-12 9-8-12 5x5 =5x5 = 12.00 12 6-0-1 5-5-5 3x6 / 3x6 =22 13 18 2x4 =17 16 15 20 3x6 = 2x4 || 3x8 =3x4 = 3x8 = 12 11 3x8 = 2x4 || 3x4 ||

7-0-4 7-7-0 1-8-0 0-6-12 1-3-122-3-12 1-3-12 1-0-0 19-4-8 3-0-8 Plate Offsets (X V) [7:0-3-13 0-3-0] [9:0-2-12 0

riale Olisels (A, I)	[7.0-3-13,0-3-0], [9.0-2-12,0-1-0], [10.0-1-0,0-3-0	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	0.54	Vert(LL)	-0.03 1	6-17	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.06	12	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.04	22	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2	2014	Matri	x-AS						Weight: 137 lb	FT = 20%

LUMBER-

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

Builders FirstSource (Valley Center),

**BOT CHORD** 2x4 SPF No.2 WEBS 2x4 SPF No.2 **OTHERS** 2x4 SPF No.2 BRACING-

TOP CHORD

Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (6-0-0 max.): 3-4, 5-6, 7-8, 9-10.

**BOT CHORD** Rigid ceiling directly applied. **WEBS** 1 Row at midpt

REACTIONS. (size) 20=0-3-8, 22=Mechanical

Max Horz 20=267(LC 12)

Max Uplift 20=-124(LC 12), 22=-170(LC 12) Max Grav 20=932(LC 1), 22=831(LC 1)

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

TOP CHORD 2-3=-593/85, 3-4=-389/71, 4-5=-961/141, 5-6=-637/155, 6-7=-654/73, 7-8=-712/117,

8-9=-660/115, 9-10=-457/130, 2-20=-915/120

**BOT CHORD** 19-20=-378/255, 17-19=-416/757, 16-17=-299/695, 15-16=-267/711 WEBS

3-19=-64/307, 5-17=-18/338, 10-15=-199/672, 2-19=-24/585, 4-19=-774/121,

8-15=-594/223, 10-22=-832/203

## NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 7) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-3-12, Interior(1) 2-3-12 to 5-4-4, Exterior(2E) 5-4-4 to 7-0-4, Interior(1) 7-0-4 to 7-7-0, Exterior(2E) 7-7-0 to 9-11-0, Interior(1) 9-11-0 to 12-6-0, Exterior(2R) 12-6-0 to 15-6-0, Interior(1) 15-6-0 to 18-11-4 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
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 20=124, 22=170.
- 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.





Job Truss Truss Type Qty Roeser/1483 Winterset 2720415 D03 Piggyback Base Job Reference (optional) RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVIGES7 LEE'S SUMMIT. MISSOURI

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

3-3-12|4-4-4| 6-0-4 1-0-0 1-0-8 1-8-0 9<sub>7</sub>0-8 10-11-0 | 12-6-0 | 0-5-8 1-10-8 | 1-7-0 2-3-12 2-3-12 <u>14-8-</u>8 2-6-12 2-2-8 4-8-0

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19,09/2246,2021 Rage 1 ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-0lvKc5QqfsufW6ZkLRiBUm ConFrQB4MOLG/ijuzz Bh

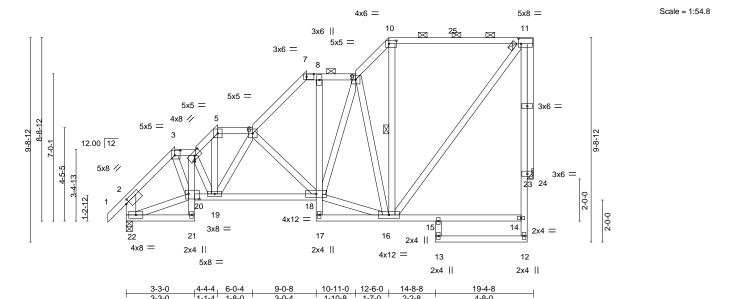


Plate Off	Plate Offsets (X,Y) [2:0-1-14,0-1-12], [3:0-3-0,0-2-14], [4:0-4-0,0-1-15], [7:0-4-3,0-1-8], [10:0-4-4,0-1-12], [11:0-1-8,0-3-0], [20:0-6-4,0-3-0]										
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP						
TCLL	25.0	Plate Grip DOL 1.15	TC 0.88	Vert(LL) -0.08 18-19 >999 240	MT20 197/144						
TCDL	10.0	Lumber DOL 1.15	BC 0.47	Vert(CT) -0.15 18-19 >999 180							
BCLL	0.0	Rep Stress Incr YES	WB 0.67	Horz(CT) 0.08 24 n/a n/a							
BCDL	10.0	Code IRC2018/TPI2014	Matrix-MS		Weight: 144 lb FT = 20%						

**BOT CHORD** 

**WEBS** 

LUMBER-BRACING-TOP CHORD

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

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

2-22: 2x6 SPF No.2

**OTHERS** 2x4 SPF No.2

REACTIONS. (size) 22=0-3-8, 24=Mechanical

Max Horz 22=265(LC 12)

Max Uplift 22=-124(LC 12), 24=-169(LC 12) Max Grav 22=934(LC 1), 24=827(LC 1)

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

TOP CHORD 2-3=-998/262, 3-4=-838/260, 4-5=-1247/293, 5-6=-869/225, 6-7=-960/177,

7-8=-662/169, 8-9=-675/170, 9-10=-669/145, 10-11=-470/135, 2-22=-953/252

**BOT CHORD** 4-20=-805/42, 19-20=-538/974, 18-19=-454/1062, 8-18=-57/509

WEBS 5-19=-165/698, 6-18=-555/224, 16-18=-237/656, 9-16=-779/292, 11-16=-201/680,

20-22=-438/504, 3-20=-172/836, 6-19=-389/29, 11-24=-828/202

## NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-Č Exterior(2E) -0-10-8 to 3-3-12, Interior(1) 3-3-12 to 4-4-4, Exterior(2E) 4-4-4 to 6-0-4, Interior(1) 6-0-4 to 8-7-0, Exterior(2E) 8-7-0 to 10-11-0, Interior(1) 10-11-0 to 12-6-0, Exterior(2R) 12-6-0 to 15-6-0, Interior(1) 15-6-0 to 18-11-4 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
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 22=124, 24=169.
- 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/TPL1
- 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 2-2-0 oc purlins,

10-16

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

7-9, 10-11.

1 Row at midpt

except end verticals, and 2-0-0 oc purlins (5-11-12 max.): 3-4, 5-6,



Job Truss Truss Type Qty Roeser/1483 Winterset 2720415 D04 PIGGYBACK BASE Job Reference (optional) RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES8 LEE'S SUMMIT. MISSOURI

Scale = 1:56.8

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr. 1910932-642021 Page ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-nlOMlqWrmKvWTKAH 663pSqex.JYZ3epZAV dsnozPFBrJ

11-11-0 12-6-0 14-8-8 2-4-0 0-7-0 2-2-8 2-4-4 3-3-0 5-0-4 0-10-12 1-9-4 9-0-8 4-0-4 4-8-0

4x4 = 5x8 = 2x4 || 3x4 || 3x6 || 10 2x4 || 3x6 =24 6x6 =8-8-12 5x5 = 3 8-0-1 4 12.00 12 5x8 // 3x6 = 23 2-0-0 17 18 4x12 19 16 15 2x4 П 3x12 =2x4 || 2x4 || 3x8 = 12 11 2x4 || 3x4 II

1	3-3-0	5-0-4	9-0-8	11-11-0	12-610	14-8-8	19-4-8	
ı	3-3-0	1-9-4	4-0-4	2-10-8	0-7-0	2-2-8	4-8-0	
[2:0-1-14 0-1-12] [3	3.0-3-0 0-2-141	[7:0-3-4 Edge]	[Q·0-2-4 0-1-12	1 [10:0-1-8	0-3-01			

_ Flate Oil	Sets (\(\Lambda\) + )	[2.0-1-14,0-1-12], [3.0-3-0,0-2-	14], [7.0-3-4,⊏uge	<u>], [9.0-2-4,0-1-1</u>	2j, [10.0-1-6,0-3-0	<u> </u>				
LOADIN	G (psf)	SPACING- 2-0-	0 <b>C</b> \$	SI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.1	5 TC	0.80	Vert(LL)	-0.10 17-18	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL 1.1	5 BC	0.51	Vert(CT)	-0.20 17-18	>999	180		
BCLL	0.0	Rep Stress Incr YE	s W	B 0.90	Horz(CT)	0.07 23	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	· Ma	atrix-AS					Weight: 133 lb	FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

**WEBS** 

LUMBER-

Plata Officate (V V)

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

2x4 SPF No.2 \*Except\*

2-20: 2x6 SPF No.2

**OTHERS** 2x4 SPF No.2

REACTIONS. (size) 20=0-3-8, 23=Mechanical

Max Horz 20=244(LC 9)

Max Uplift 20=-138(LC 12), 23=-158(LC 12) Max Grav 20=934(LC 1), 23=827(LC 1)

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

TOP CHORD 2-3=-1018/243, 3-4=-873/239, 4-5=-963/249, 5-6=-1022/179, 6-7=-598/199,

7-8=-628/205, 9-10=-435/116, 2-20=-968/236 4-18=-270/74, 17-18=-538/1399, 6-17=-0/341

**BOT CHORD** 5-17=-852/320, 8-15=-551/226, 10-15=-174/628, 15-17=-132/464, 8-17=-175/332, **WEBS** 

5-18=-659/120, 18-20=-388/582, 3-18=-153/963, 10-23=-828/184

## 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 5-0-4, Interior(1) 5-0-4 to 9-7-0, Exterior(2E) 9-7-0 to 12-7-12, Interior(1) 12-7-12 to 18-11-4 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
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 20=138, 23=158.
- 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 (5-8-14 max.): 3-5, 7-8, 9-10.

Rigid ceiling directly applied.

1 Row at midpt



Job Truss Truss Type Qty Roeser/1483 Winterset 2720415 D05 Roof Special Girder Job Reference (optional)

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES

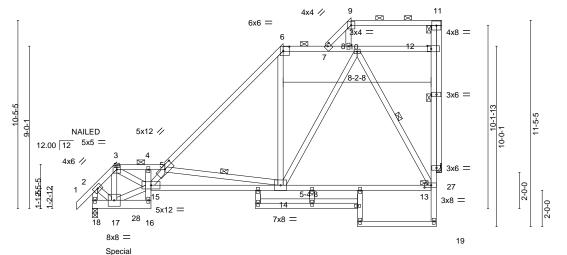
LEF'S SUMMIT, MISSOURI

RELEASE FOR CONSTRUCTION

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09/32-59/2021 Page : ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-8FBFLXa\_bsXpa63EcfREW(V)QaVyike9JKhL/SzFBr/

14-8-4 14-4-4 0-10-8 1-4-4 3-3-0 4-0-4 0-10-8 1-4-4 1-10-12 0-9-4 5x5 = 0-4-06x6 ||

Scale: 3/16"=1



12-11-0

14-8-8

2-10-12 1-6-8

Plate Offsets (X,Y)	[5:0-6-0,0-2-5], [6:0-4-1,0-3-0], [7:0-2-0	<u>,0-1-3], [12:0-2-8,0-2-0], [</u>	13:0-4-8,0-1-8]	
LOADING (psf)	SPACING- 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.87	Vert(LL) -0.12 13-14 >999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.96	Vert(CT) -0.26 13-14 >878 180	
BCLL 0.0	Rep Stress Incr NO	WB 0.51	Horz(CT) 0.07 27 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS		Weight: 143 lb FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

**WEBS** 

LUMBER-

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

16-18: 2x6 SPF No.2

**WEBS** 2x4 SPF No.2

**OTHERS** 2x4 SPF No.2

REACTIONS. (size) 18=0-3-8, 27=Mechanical

Max Horz 18=443(LC 7)

Max Uplift 18=-223(LC 8), 27=-245(LC 5) Max Grav 18=1373(LC 1), 27=892(LC 1)

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

TOP CHORD 2-3=-997/173, 3-4=-2167/399, 4-5=-2275/392, 5-6=-992/122, 6-7=-588/200,

7-8=-607/249, 8-10=-577/243, 13-27=-180/735, 2-18=-1379/228

**BOT CHORD** 17-18=-420/270, 14-15=-700/2759, 13-14=-202/376

WEBS 3-17=-460/169, 15-17=-414/640, 3-15=-302/1727, 5-15=-779/356, 5-14=-2204/672,

2-17=-100/898, 6-14=-56/292, 8-9=-297/133, 10-13=-755/241, 10-14=-153/483

## 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate arip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) The Fabrication Tolerance at joint 5 = 8%
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 18=223, 27=245.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 17 lb down and 9 lb up at 1-4-4, and 499 lb down and 95 lb up at 1-7-4 on bottom chord. The design/selection of such connection device(s) is the
- 13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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



Structural wood sheathing directly applied, except end verticals, and

11-13, 5-14, 10-13

2-0-0 oc purlins (3-8-3 max.): 3-5, 6-12, 9-11, 13-19.

7-0-6 oc bracing: 14-15.

1 Row at midpt

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

MiTek

OFFESSIONAL STONAL

OF MISS

SCOTT M.

SEVIER

PE-2001018807

Job Truss Truss Type Qty Roeser/1483 Winterset 2720415 D05 Roof Special Girder | Job Reference (optional) | LEE'S SUMMIT, MISSOUR | 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09 (2-59 2021 Rags 2 ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-8FBFLXa\_bsXpa63t cfREW(V)02 VylkpeJkhl/s\_ZFBy/

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES

LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-70, 2-3=-70, 3-5=-70, 5-6=-70, 6-7=-70, 7-9=-70, 9-11=-70, 16-18=-20, 13-15=-20

Concentrated Loads (lb)

Vert: 17=6(B) 28=-499(B)



Job Truss Truss Type Roeser/1483 Winterset 2720415 D06 Roof Special Job Reference (optional

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW **DEVELOPMENT SERVICES**716400 LEE'S SUMMIT, MISSOURI

8.430 s Nov 30 2020 MiTek Ir ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-ozfK6wbsCz4

-4-10 2-8-7 3-3-13 1-11-12 4-0-6 4-3-14 FXbMWpc Ev/2i)

Scale = 1:57.2

6x6 = 5x8 = 5 6 12.00 12 3x6 = 9-7-0 9-2-2 5x5 = 2x4 3x6 = 2-0-0 9 10 4x12 MT20HS || 5x5 12 9 8 5x8 =2x4 | 3x4 =2x4 || 4x4 =

1-7-0 7-4-8 9-4-4 17-8-8 1-7-0 5-9-8 1-11-12 8-4-4 Plate Offsets (X,Y)-- [4:0-0-0,0-3-4], [4:0-7-0,0-0-0], [5:0-3-13,0-3-0], [6:0-1-12,0-2-12], [10:0-5-8,0-2-0], [11:0-6-0,0-0-0]

	[,,, [,,, [	-,,,, [ ,- ,- ,-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
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 0.86	Vert(LL) 0.37 4-11 >568 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.85	Vert(CT) -0.49 4-11 >428 180	MT20HS 148/108
BCLL 0.0	Rep Stress Incr YES	WB 0.48	Horz(CT) 0.22 14 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS		Weight: 108 lb FT = 20%

TOP CHORD

BOT CHORD

Except:

1 Row at midpt

LUMBER-**BRACING-**

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

1-5: 2x6 SPF No.2 2x4 SPF No 2 \*Except\*

4-10: 2x4 SPF 1650F 1.5E

WFBS 2x4 SPF No 2

**BOT CHORD** 

**OTHERS** 2x4 SPF No.2

REACTIONS. (size) 1=Mechanical, 14=Mechanical

Max Horz 1=362(LC 12)

Max Uplift 1=-58(LC 12), 14=-90(LC 12) Max Grav 1=898(LC 1), 14=425(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 1-2=-432/23, 2-4=0/449, 4-15=-645/0, 5-15=-445/0, 5-6=-398/147 TOP CHORD BOT CHORD 4-11=-151/400, 10-11=-293/795, 8-9=-395/142, 7-8=-378/136 **WEBS** 8-10=0/445, 7-10=-136/393, 6-10=-215/559, 6-14=-426/91

### 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 1-4-8, Interior(1) 0-1-12 to 9-4-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate arip 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) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 1 and 90 lb uplift at joint 14.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



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

end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-4, 5-6, 6-7, 2-3.

5-6

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





RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Roeser/1483 Winterset AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVIGES1 2720415 D07 Half Hip LEE'S SUMMIT. MISSOURI Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09 33 02 2021 Fage 1 ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-YqtNzZcsunvOR ZnpHo\_8390Tij/txx/zid/Zx32/EBJV Builders FirstSource (Valley Center), Valley Center, KS - 67147, -0-10-8 0-10-8 11-10-10 16-8-8

4-6-6

7-4-4

Scale: 1/4"=1 6x6 = 6x6 || 3x4 =4  $\square$  $\square$ 12.00 12 3x6 =8-7-0 7x8 = 3x6 = 11 1-2-12 8 7 6 3x6 =4x8 = 4x8 = 16-8-8 7-4-4 [2:0-3-8,Edge], [3:0-4-1,0-3-0] SPACING-**PLATES** CSI. DEFL. in (loc) I/def L/d GRIP Plate Grip DOL 1.15 TC 0.51 Vert(LL) -0.16 6-7 >999 240 197/144 MT20 Lumber DOL 1.15 BC 0.55 Vert(CT) -0.31 6-7 >629 180 Rep Stress Incr YES WB 0.37 Horz(CT) -0.06 n/a 11 n/a Code IRC2018/TPI2014 FT = 20%

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 **OTHERS** 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.

Weight: 97 lb

**BOT CHORD** Rigid ceiling directly applied. **WEBS** 1 Row at midpt

REACTIONS. (size) 9=0-3-8, 11=Mechanical

Max Horz 9=275(LC 12)

Max Uplift 9=-66(LC 12), 11=-183(LC 9) Max Grav 9=812(LC 1), 11=711(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-755/90, 3-4=-400/166, 6-10=-160/570, 5-10=-160/570, 2-9=-752/126 TOP CHORD

**BOT CHORD** 7-9=-587/470 6-7=-145/304

**WEBS** 4-7=-140/255, 4-6=-551/216, 2-7=-185/427, 5-11=-711/208

- 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=25ft; 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 7-4-4, Exterior(2R) 7-4-4 to 11-10-10, Interior(1) 11-10-10 to 16-3-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-AS

- 3) Provide adequate drainage to prevent water ponding.
- 4) The Fabrication Tolerance at joint 2 = 12%
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb)
- 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.







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



Job Truss Truss Type Qty Roeser/1483 Winterset 2720415 D08 Half Hip Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Ind. Mon Apr 19:09(38:03)2021 Rage in ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-00RmBvdVe51F2jh ?rVVAhMBreb/gpzuFtJ/bzzPBrJ Builders FirstSource (Valley Center) Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVIGES2 LEE'S SUMMIT, MISSOURI

FT = 20%

Weight: 94 lb

Scale = 1:42.6

14-8-8 16-8-8 4-0-12 4-10-10 3-5-10 2-0-0

5x5 = 6x6 || 3x4 =5  $\bowtie^{7}$ 12.00 12 3x6 = 3x12 // 7-7-0 7-5-5 3x6 = 3x6 // 16 10 1-2-12 12 0-0-3x8 = 11 3x4 || 3x6 = 3x8 = 13 8 7 3x8 = 2x4 || 2x4 | 2x4 || 16-8-8 4-0-12 Plate Offsets (X,Y)--[9:0-4-8,0-1-8] SPACING-L/d **PLATES** LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/def GRIP 25.0 Plate Grip DOL 1.15 TC 0.54 Vert(LL) -0.22 10-11 >902 240 197/144 MT20

LUMBER-

TCLL

TCDL

**BCLL** 

**BCDL** 

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

10.0

10.0

0.0

**BRACING-**

Vert(CT)

Horz(CT)

-0.44 10-11

16

-0.05

TOP CHORD Structural wood sheathing directly applied, except end verticals, and

180

n/a

2-0-0 oc purlins (6-0-0 max.): 4-6. **BOT CHORD** Rigid ceiling directly applied.

>451

n/a

REACTIONS. (size) 14=0-3-8, 16=Mechanical

Max Horz 14=234(LC 12)

Max Uplift 14=-116(LC 12), 16=-179(LC 9) Max Grav 14=812(LC 1), 16=711(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. 2-3=-719/149, 3-4=-806/180, 4-5=-498/194, 9-15=-137/550, 6-15=-137/550, TOP CHORD

2-14=-871/178

13-14=-292/161, 11-12=-472/620, 10-11=-189/439, 9-10=-166/501 3-11=-208/267, 4-11=-3/268, 5-9=-581/231, 2-13=-59/516, 6-16=-712/189

1.15

YES

# **WEBS** 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-12, Interior(1) 2-1-12 to 6-4-4, Exterior(2R) 6-4-4 to 10-7-3, Interior(1) 10-7-3 to 16-3-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

BC

WB

Matrix-AS

0.68

0.65

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





RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Roeser/1483 Winterset AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES3 2720415 D09 Half Hip LEE'S SUMMIT, MISSOURI Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Am 19,09/3508,2021 - 9 ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-N\_EfEchdTdgX9UFzs25LOPP?P7 3j/2/xd0rf0yGgZF Builders FirstSource (Valley Center), Valley Center, KS - 67147, 19 09/38:08/2021 Rage 0-10-8 10-8-14 16-8-

5-4-10

3-11-10

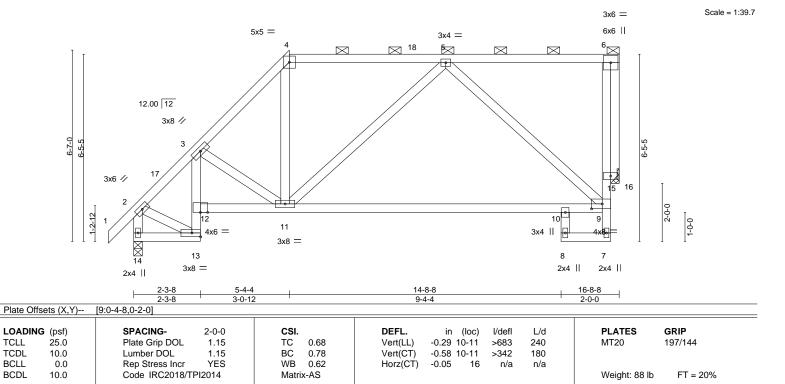
2-0-0

Structural wood sheathing directly applied, except end verticals, and

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

Rigid ceiling directly applied.

3-0-12



**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-TOP CHORD

TCLL

TCDL

**BCLL** 

**BCDL** 

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

2x4 SPF No.2

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

REACTIONS. (size) 14=0-3-8, 16=Mechanical

Max Horz 14=194(LC 12)

Max Uplift 14=-129(LC 12), 16=-176(LC 9) Max Grav 14=812(LC 1), 16=711(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-716/160, 3-4=-849/201, 4-5=-554/195, 9-15=-116/534, 6-15=-116/534, TOP CHORD

2-14=-866/183

**BOT CHORD** 13-14=-267/152, 11-12=-411/576, 10-11=-214/552, 9-10=-181/639 4-11=-30/319, 5-9=-620/238, 2-13=-46/496, 6-16=-713/177

# **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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-12, Interior(1) 2-1-12 to 5-4-4, Exterior(2R) 5-4-4 to 9-7-3, Interior(1) 9-7-3 to 16-3-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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) 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.



April 20,2021



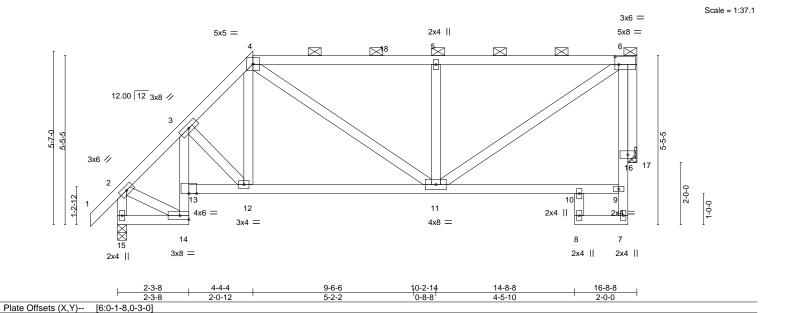
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Roeser/1483 Winterset AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES4 2720415 D10 Half Hip LEE'S SUMMIT. MISSOURI Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09 33 17 2021 F ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-cjH27hoHLOoFktf hgRISFIH bV P cypSy 1 bis 5 21 10-2-14 14-8-8 16-8-8 8.430 s Mar 22 2021 MiTek Industries, Inc Builders FirstSource (Valley Center), Valley Center, KS - 67147, 19 09/38 17/2021 Rage 10-2-14



DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

**BOT CHORD** 

in (loc)

0.05

-0.03 11-12

-0.07 11-12

17

I/defl

>999

>999

n/a

L/d

240

180

n/a

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

Rigid ceiling directly applied.

4-5-10

LUMBER-TOP CHORD

REACTIONS.

LOADING (psf)

25.0

10.0

10.0

0.0

TCLL

TCDL

**BCLL** 

**BCDL** 

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

2-0-0

1.15

1.15

YES

CSI.

TC

BC

WB

Matrix-AS

0.46

0.56

0.20

2-0-12

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

(size) 15=0-3-8, 17=Mechanical

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

Max Horz 15=166(LC 9)

Max Uplift 15=-140(LC 12), 17=-173(LC 9) Max Grav 15=812(LC 1), 17=711(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-716/165, 3-4=-830/241, 4-5=-759/191, 5-6=-759/191, 2-15=-865/184

**BOT CHORD** 12-13=-336/555. 11-12=-251/587

**WEBS** 2-14=-37/479, 5-11=-465/194, 4-11=-101/257, 6-11=-203/801, 6-17=-715/174

- 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-12, Interior(1) 2-1-12 to 4-4-4, Exterior(2R) 4-4-4 to 8-7-3, Interior(1) 8-7-3 to 16-3-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=140, 17=173.
- 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.



GRIP

197/144

FT = 20%

**PLATES** 

Weight: 87 lb

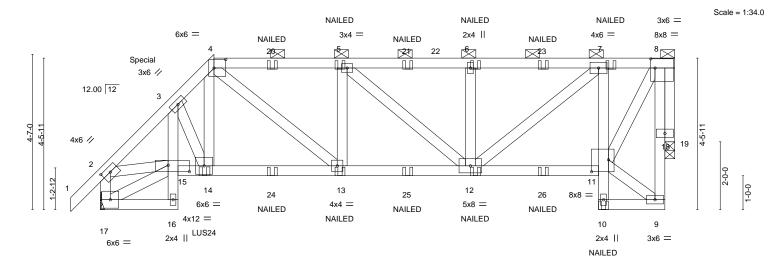
MT20

Structural wood sheathing directly applied, except end verticals, and



RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES5 LEE'S SUMMIT, MISSOURI

19 09/38:22/2021 Rage 1 ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-yg4xAOrPAwRYqeJf \$?LdyMLQIm2i/QZhcsPqm0ZPBrB 16-11-8 <u> 10-11-1</u> 3-9-7 3-9-7 3-9-7



	2-3-8   3-4-4   1-0-12	7-1-11 3-9-7	10-11-1 3-9-7	14-8-8 3-9-7	16-11-8 2-3-0	-1
Plate Offsets (X,Y)	[2:0-3-0,0-1-12], [4:0-4-3,0-3-0], [8:0-1-	8,0-3-4], [11:0-6-0,0-4-	4], [15:0-7-8,0-2-4]			
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 0.54 BC 0.80 WB 0.48 Matrix-MS	DEFL. in Vert(LL) -0.07 1: Vert(CT) -0.13 1: Horz(CT) 0.10		PLATES MT20 Weight: 95 lb	<b>GRIP</b> 197/144 FT = 20%

LUMBER-BRACING-

2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 3-7-7 oc purlins, TOP CHORD BOT CHORD 2x4 SPF No.2 except end verticals, and 2-0-0 oc purlins (3-3-11 max.): 4-8. WEBS 2x4 SPF No.2 **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing. **OTHERS** 2x4 SPF No.2

REACTIONS. (size) 17=Mechanical, 19=0-3-8

Max Horz 17=144(LC 26)

2-3-8

1-0-12

Max Uplift 17=-540(LC 8), 19=-491(LC 5) Max Grav 17=1910(LC 1), 19=1675(LC 1)

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

2-3=-2493/793, 3-4=-2242/725, 4-5=-2435/745, 5-6=-2256/674, 6-7=-2256/674, TOP CHORD

7-8=-1096/329 2-17=-1851/597

**BOT CHORD** 14-15=-631/1708, 13-14=-561/1622, 12-13=-776/2435, 11-12=-374/1145, 7-11=-1366/446 **WEBS** 4-14=-237/573, 4-13=-317/1075, 5-13=-375/155, 6-12=-503/185, 7-12=-431/1440,

8-11=-603/1961, 2-15=-492/1674, 8-19=-1688/495

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Bearing at joint(s) 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 100 lb uplift at joint(s) except (jt=lb) 17=540, 19=491. 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 LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent at 3-0-14 from the left end to connect truss(es) to back face of bottom chord.
- 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) 317 lb down and 169 lb up at 2-2-13 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).



April 20,2021

# COARIGASE(S)geStandard



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Job Truss Truss Type Qty Roeser/1483 Winterset D11 2720415 Half Hip Girder

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 Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09 38-23 2021 Pages 1D:ja0L6Z4CEmlyeqhDgBS87bzZkjf-RteKNks2xEZPSot r0issUakthADyModrn/9812ZFBr/A

#### 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, 4-8=-70, 16-17=-20, 11-15=-20, 9-10=-20

Concentrated Loads (lb)

Vert: 3=-267(B) 7=-133(B) 14=-317(B) 13=-123(B) 5=-120(B) 6=-120(B) 12=-123(B) 11=-110(B) 20=-120(B) 21=-120(B) 23=-120(B) 24=-123(B) 25=-123(B) 25=-123(B

26=-123(B)



Job Truss Truss Type Qty Roeser/1483 Winterset 2720415 E01 PIGGYBACK BASE Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

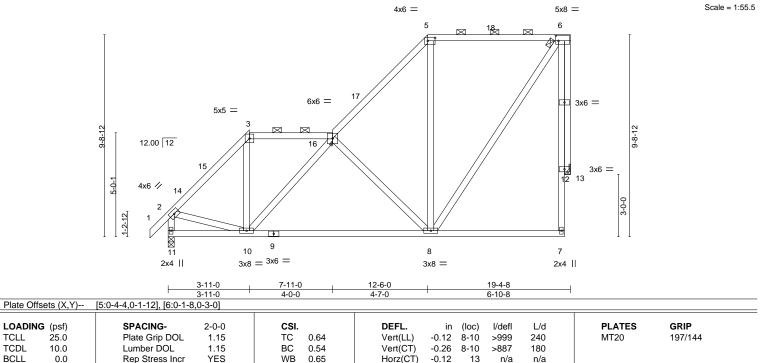
RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES6 LEE'S SUMMIT, MISSOURI

FT = 20%

Weight: 115 lb

19 09/38:28/2021 Rage 1

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19.09(26:282021 - 299) ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-nqSDQSwAmmBiYZmppFS1BdBQLBY41a1 oyyzZFBp5 3-11-0 4-0-0 4-7-0 6-10-8



LUMBER-

TCLL

TCDL

**BCLL** 

**BCDL** 

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

10.0

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4, 5-6.

**BOT CHORD** Rigid ceiling directly applied or 8-7-5 oc bracing.

REACTIONS. (size) 11=0-3-8, 13=Mechanical

Max Horz 11=307(LC 12)

Max Uplift 11=-108(LC 12), 13=-186(LC 12) Max Grav 11=932(LC 1), 13=831(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-902/95, 3-4=-561/127, 4-5=-693/90, 5-6=-415/133, 2-11=-924/109 TOP CHORD

Code IRC2018/TPI2014

BOT CHORD 10-11=-464/327 8-10=-321/821

**WEBS** 3-10=0/331, 4-8=-577/252, 6-8=-215/672, 2-10=-23/544, 4-10=-395/32, 6-13=-832/220

# NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; 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 3-11-0, Exterior(2R) 3-11-0 to 6-11-0, Interior(1) 6-11-0 to 12-6-0, Exterior(2R) 12-6-0 to 15-6-0, Interior(1) 15-6-0 to 18-11-4 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

Matrix-S

- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=108, 13=186.
- 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.





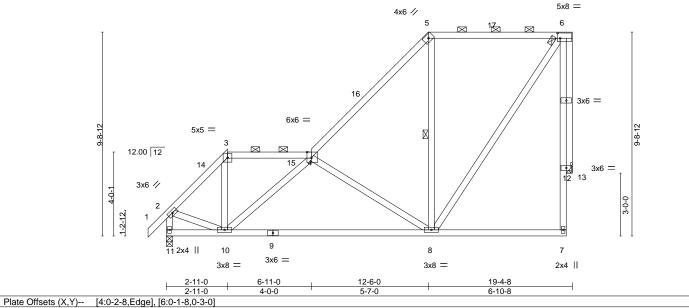
Job Truss Truss Type Qty Roeser/1483 Winterset 2720415 E02 PIGGYBACK BASE Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVIGES7 LEE'S SUMMIT. MISSOURI

19,09/38-31/2021-7999

Scale = 1:55.0

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Am 19 09 39 31 2021 P. ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-CP7L3Ty32hZGP0VOUN?kpGyyOp?EB\_onts. 2-11-0 4-0-0 5-7-0 6-10-8



SPACING-LOADING (psf) CSI. DEFL. in (loc) I/def L/d **PLATES** GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.62 Vert(LL) -0.18 8-10 >999 240 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 BC 0.66 Vert(CT) -0.38 8-10 >601 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.65 Horz(CT) -0.12n/a 13 n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Weight: 112 lb Matrix-S

LUMBER-

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

TOP CHORD Structural wood sheathing directly applied or 5-9-11 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4, 5-6.

**BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing. **WEBS** 1 Row at midpt

REACTIONS. (size) 11=0-3-8, 13=Mechanical

Max Horz 11=307(LC 12)

Max Uplift 11=-108(LC 12), 13=-186(LC 12) Max Grav 11=932(LC 1), 13=831(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-877/80, 3-4=-562/100, 4-5=-727/73, 5-6=-420/135, 2-11=-963/93 TOP CHORD

BOT CHORD 10-11=-437/279 8-10=-360/990

**WEBS** 3-10=0/365, 4-8=-683/274, 6-8=-219/681, 2-10=0/623, 4-10=-577/57, 6-13=-832/218

# NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; 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, Exterior(2R) 2-11-0 to 5-11-0, Interior(1) 5-11-0 to 12-6-0, Exterior(2R) 12-6-0 to 15-6-0, Interior(1) 15-6-0 to 18-11-4 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) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=108, 13=186.
- 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.

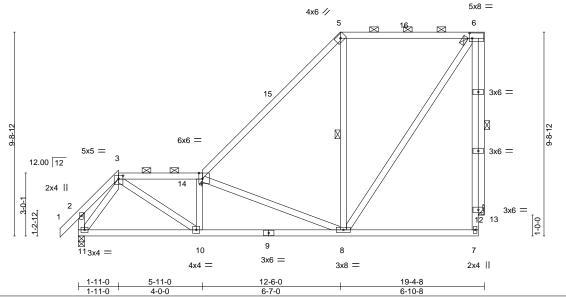




Job Truss Truss Type Qty Roeser/1483 Winterset 2720415 E03 PIGGYBACK BASE Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19109/3933/2021 Page 1 ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-8oF5U9\_JaJp\_f xfmco2(ui)xH G2tgHFJ8/ajxZrBJ0 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES8 LEE'S SUMMIT. MISSOURI

Scale = 1:55.0



6-7-0

Plate Offsets (X,Y)-- [3:0-2-8,0-1-12], [4:0-2-0,Edge], [6:0-1-8,0-3-0]

-0-10-8 1-11-0 0-10-8 1-11-0

4-0-0

LOADING	\( \( \)	SPACING- 2-0-0	CSI.	DEFL. ir	( /	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.67	Vert(LL) -0.04	8-10	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.47	Vert(CT) -0.11	8-10	>999	180		
BCLL	0.0	Rep Stress Incr YES	WB 0.91	Horz(CT) 0.02	13	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S					Weight: 113 lb	FT = 20%

LUMBER-

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

TOP CHORD

Structural wood sheathing directly applied or 4-2-2 oc purlins, except end verticals, and 2-0-0 oc purlins (5-0-6 max.): 3-4, 5-6.

**BOT CHORD** Rigid ceiling directly applied or 9-5-12 oc bracing. **WEBS** 1 Row at midpt

19-4-8

6-10-8

REACTIONS. (size) 11=0-3-8, 13=Mechanical

Max Horz 11=347(LC 12)

Max Uplift 11=-104(LC 12), 13=-190(LC 12) Max Grav 11=932(LC 1), 13=831(LC 1)

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

3-4=-1287/127, 4-5=-751/48, 5-6=-417/136 TOP CHORD

**BOT CHORD** 10-11=-348/507. 8-10=-387/1308

**WEBS** 3-10=-43/967, 4-10=-433/81, 4-8=-963/288, 6-8=-234/678, 3-11=-826/57,

6-13=-831/212

# NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 1-11-0, Exterior(2R) 1-11-0 to 4-11-0, Interior(1) 4-11-0 to 12-6-0, Exterior(2R) 12-6-0 to 15-6-0, Interior(1) 15-6-0 to 18-11-4 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) Provide adequate drainage to prevent water ponding.
- 3) The Fabrication Tolerance at joint 4 = 8%, joint 5 = 4%
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=104, 13=190.
- 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.





Job Truss Truss Type Qty Roeser/1483 Winterset 2720415 E04 Piggyback Base Girder Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES9

LEE'S SUMMIT, MISSOURI

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19.09(39.39.2071-13.39) ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-zycNkC34A8a8NF6wv39c8yEH3cdv7g52EWq11/xz=Plm/y



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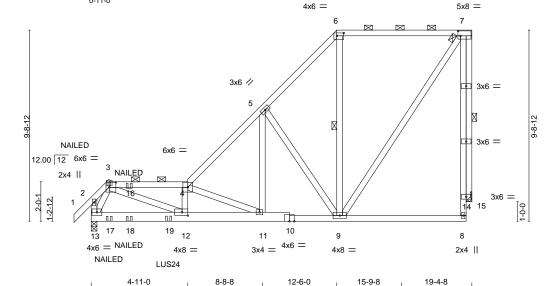


Plate Offsets (X,Y)--[3:0-4-1,0-3-0], [6:0-4-4,0-1-12], [7:0-1-8,0-3-0], [12:0-3-8,0-2-0] LOADING (psf) SPACING-2-0-0 DEFL. in (loc) I/def L/d **PLATES** GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.72 Vert(LL) -0.07 11-12 >999 240 197/144 MT20 TCDL

3-9-8

10.0 Lumber DOL 1.15 BC 0.51 Vert(CT) -0.13 11-12 >999 180 **BCLL** 0.0 Rep Stress Incr NO WB 0.57 Horz(CT) 0.02 15 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Matrix-MS Weight: 126 lb

BRACING-

TOP CHORD

**BOT CHORD** 

**WEBS** 

LUMBER-

REACTIONS.

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

10-13: 2x6 SPF No.2 WEBS 2x4 SPF No.2

**OTHERS** 2x4 SPF No.2

(size) 13=0-3-8, 15=Mechanical

Max Horz 13=349(LC 8)

Max Uplift 13=-193(LC 8), 15=-204(LC 8) Max Grav 13=1145(LC 1), 15=886(LC 1)

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

TOP CHORD 3-4=-2276/259, 4-5=-1292/97, 5-6=-720/114, 6-7=-444/137 **BOT CHORD** 12-13=-405/513, 11-12=-561/2319, 9-11=-286/847

**WEBS** 3-12=-165/1917, 4-12=-533/104, 4-11=-1604/300, 5-11=-94/713, 5-9=-701/287,

7-9=-233/722, 3-13=-929/128, 7-15=-887/204

- 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=25ft; 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.

4-11-0

- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=193, 15=204
- 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) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent at 3-11-4 from the left end to connect truss(es) to front face of bottom chord.
- 10) Fill all nail holes where hanger is in contact with lumber.
- 11) "NAILED" indicates 3-10d ( $\bar{0}$ .148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard

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



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

Rigid ceiling directly applied or 9-10-15 oc bracing.

1 Row at midpt

except end verticals, and 2-0-0 oc purlins (3-6-13 max.): 3-4, 6-7.

April 20,2021



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

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

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



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty Roeser/1483 Winterset 2720415 E04 Piggyback Base Girder

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

Job Reference (optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Am 19 09 38-39 2021 Fags 10:ja0L6Z4CEmlyeqhDgBS87bzZkjf-zycNkC34A8a8NF6w 39c8yEH3dv 7652E/W 11/r×ze1tm w

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

LOAD CASE(S) Standard Uniform Loads (plf)

Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-6=-70, 6-7=-70, 8-13=-20

Concentrated Loads (lb)

Vert: 16=-14(F) 17=28(F) 18=-11(F) 19=-271(F)



Job Truss Truss Type Qty Roeser/1483 Winterset 2720415 E05 Piggyback Base Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

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

Scale = 1:55.0

8.430 s Mar 22 2021 MiTek Industries, Ind. Mon Apr 1909 39.41 2021 Rage ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-vKk79u4KimqrcZGJ4UE 4DNGgDGcka\_AV\_KV 8yPzetmy 4-4-12 4-1-4 6-10-8

6x6 // 5x8 = 3 4 12 🖂 赳  $\bowtie$ 12.00 12 3x6 = 4x4 // X 3x6 = 3x4 || 3x6 = 1-2-12 9 6 5  $^{7}$ 3x8 = 3x8 =2x4 ||

Plate Off	sets (X,Y)	[3:0-2-12,0-1-8], [4:0-1-8,0	)-3-0]									
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	0.54	Vert(LL)	-0.11	6-7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.22	6-7	>825	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.02	9	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	I2014	Matri	x-AS						Weight: 97 lb	FT = 20%

LUMBER-

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

**BOT CHORD** 

**WEBS** 

TOP CHORD Structural wood sheathing directly applied, except end verticals, and

6-10-8

2-0-0 oc purlins (6-0-0 max.): 3-4. Rigid ceiling directly applied. 1 Row at midpt

REACTIONS. (size) 7=Mechanical, 9=Mechanical

Max Horz 7=312(LC 12)

Max Uplift 7=-29(LC 12), 9=-216(LC 12) Max Grav 7=678(LC 1), 9=653(LC 1)

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

1-2=-334/136, 2-3=-512/99, 3-4=-292/143, 1-7=-310/125 TOP CHORD

**BOT CHORD** 6-7=-316/415

**WEBS** 4-6=-236/455, 2-7=-382/11, 4-9=-653/254

## NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; 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 8-6-0, Exterior(2R) 8-6-0 to 12-8-15, Interior(1) 12-8-15 to 14-11-4 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) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 9=216.
- 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 Roeser/1483 Winterset 2720415 E06 Piggyback Base Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Inc Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVIGES1 LEE'S SUMMIT. MISSOURI

Scale = 1:55.0

19 09/38.43/2021 Page

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19.09(39.43.20)
ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-rjstaa6aEN4ZrsChBvDYlbM0kElg2yenR ? 2 4-4-12 4-1-4 6-10-8

5 13 ⋈ ₩  $\bowtie$ 12.00 12 4x4 // 3x6 = 3x6 = 3x4 II 3x6 =1-2-12 9 10 7 6 3x8 =2x4 II 8-6-0

6x6 //

Plate Oil	Plate Offsets (X, Y) [4:0-2-12,0-1-6], [5:0-1-6,0-3-0]												
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	0.54	Vert(LL)	-0.11	7-8	>999	240	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.22	7-8	>824	180			
BCLL	0.0	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.01	10	n/a	n/a			
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-AS						Weight: 99 lb	FT = 20%	

LUMBER-

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

TOP CHORD Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (6-0-0 max.): 4-5. **BOT CHORD** Rigid ceiling directly applied. **WEBS** 1 Row at midpt

5x8 =

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

Max Horz 8=348(LC 12)

Max Uplift 8=-52(LC 12), 10=-217(LC 12) Max Grav 8=752(LC 1), 10=650(LC 1)

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

2-3=-338/165, 3-4=-508/99, 4-5=-290/143, 2-8=-383/174 TOP CHORD

**BOT CHORD** 7-8=-316/409

**WEBS** 5-7=-237/453, 3-8=-381/6, 5-10=-651/254

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; 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 8-6-0, Exterior(2R) 8-6-0 to 12-8-15, Interior(1) 12-8-15 to 14-11-4 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) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 10=217.
- 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 Roeser/1483 Winterset 2720415 E07 PIGGYBACK BASE 2

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVIGES2

LEE'S SUMMIT. MISSOURI 19 09/38:45/2021 Rage 1

Scale = 1:57.9

Job Reference (optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 1909/38-45/2021 PID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-n6ze?G7rl\_KH5Aa4Jk G0NDR H 1 w 4 V pg4vy JL6AzP

Valley Center, KS - 67147,

8-6-0 9-11-0 6-2-8 1-5-0 5-5-8

4x6 // 5x8 = 5 ±6 17 ⊠ 12.00 12 9-8-12 3x8 // 4x6 / 10 3x6 = 13 2x4 || 12 3x8 =2x4 || 3x8 = 2x4 || 2x4 ||

2-3-8 8-6-0 9-11-0 2-3-8

Plate Offsets (X,Y)--[3:0-1-12,0-1-8], [5:0-1-12,0-2-12], [8:0-2-8,0-0-0] SPACING-LOADING (psf) TCLL

25.0 Plate Grip DOL 1.15 TC 0.60 10.0 Lumber DOL 1.15 BC 0.67 0.0 Rep Stress Incr YES WB 0.50 Code IRC2018/TPI2014 10.0 Matrix-S

**PLATES GRIP** DEFL. in (loc) I/defl L/d Vert(LL) -0.06 10-11 >999 240 197/144 MT20 Vert(CT) -0.13 10-11 >999 180 Horz(CT) -0.07 n/a 14 n/a

FT = 20% Weight: 101 lb

LUMBER-

TCDL

**BCLL** 

**BCDL** 

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

Builders FirstSource (Valley Center),

BRACING-

**WEBS** 

15-4-8

5-5-8

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5. **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing.

1 Row at midpt

4-10, 5-14

REACTIONS. (size) 13=0-3-8, 14=Mechanical

Max Horz 13=364(LC 12)

Max Uplift 13=-32(LC 12), 14=-180(LC 12) Max Grav 13=752(LC 1), 14=650(LC 1)

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

2-3=-655/95, 3-4=-625/92, 4-5=-322/168, 2-13=-799/121 TOP CHORD

BOT CHORD 12-13=-333/146. 10-11=-583/746

**WEBS** 3-10=-475/442, 2-12=-64/519, 5-10=-259/476, 5-14=-651/254

# NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-12, Interior(1) 2-1-12 to 8-6-0, Exterior(2R) 8-6-0 to 12-8-15, Interior(1) 12-8-15 to 14-11-4 zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (jt=lb) 14=180.
- 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.



April 20,2021



Job Truss Truss Type Qty Roeser/1483 Winterset 2720415 E08 PIGGYBACK BASE 2 Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Inc Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES3 LEE'S SUMMIT. MISSOURI

Scale = 1:57.9

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Am 19,09/3946,2021 PID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-FIX0Cc8TWIS8jK9Gs1nFwQ\_TCJkg3FbQz28bDyogzF 19109/38:46/2021 Rage 1

15-8-0 9-11-0 6-2-8 1-5-0 5-9-0

4x6 // 3x8 = 5 <u>15</u> 16 12.00 12 4x6 // 4x6 / 1-2-12 2x4 = 10 3x6 = 3x4 || 12 3x8 = 2x4 || 2x4 || 4x8 = 2x4 ||

Plate Off	sets (X,Y)	[3:0-0-12,0-2-0]			
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 0.78	Vert(LL) -0.06 10-11 >999 240	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.68	Vert(CT) -0.13 10-11 >999 180	
BCLL	0.0	Rep Stress Incr YES	WB 0.67	Horz(CT) 0.07 6 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S		Weight: 94 lb FT = 20%

9-11-0

BRACING-

TOP CHORD

**BOT CHORD** 

**WEBS** 

15-8-0

1 Row at midpt

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

5-6, 4-10

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

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

8-6-0

LUMBER-

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

REACTIONS. (size) 6=0-3-8, 13=0-3-8 Max Horz 13=392(LC 9)

Max Uplift 6=-233(LC 9), 13=-93(LC 12) Max Grav 6=690(LC 1), 13=766(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  $2\text{-}3\text{=-}668/145,\ 3\text{-}4\text{=-}644/188,\ 4\text{-}5\text{=-}338/220,\ 6\text{-}8\text{=-}632/332,\ 5\text{-}8\text{=-}627/321,}$ TOP CHORD

2-13=-813/181

BOT CHORD 12-13=-530/376, 10-11=-808/875, 8-9=-324/307 WEBS 3-10=-494/492, 2-12=-127/525, 5-10=-326/508

## NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-12, Interior(1) 2-1-12 to 8-6-0, Exterior(2R) 8-6-0 to 12-8-15, Interior(1) 12-8-15 to 15-6-4 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) Provide adequate drainage to prevent water ponding.
- 3) The Fabrication Tolerance at joint 4 = 8%
- 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) 13 except (jt=lb) 6=233.
- 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.





Job Truss Truss Type Qty Roeser/1483 Winterset GABLE 2720415 E09 Job Reference (optional)

33

NAILED

16 4x8 =

 $\boxtimes$ 

3x4 =

34

NAILED

Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

Scale = 1:59.9

B.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09/30-48/2021-8 ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-ChfmdHAj2vis elf\_Spj r3 HI wbj wbb i 20/2021 19 09 38 48 2021 Rage

9-11-0 12-3-8 12-6-10 15-5-12 1-5-0 2-4-8 0-3-2 2-11-2

6x6 = 6 <del>32</del> 12.00 12 М NAILED 3x6 // 4x6 // 1-2-12

> 9-11-0 2-3-8 2-3-8 12-1-0 12<sub>7</sub>3-8 2-2-0 0-2-8 8-6-0 15-5-12 3-1-4

14

3x4 =

**BOT CHORD** 

**WEBS** 

**JOINTS** 

NAILED NAILED

36

38

NAILED

8

LUS24

LUS24

10-0-0 oc bracing: 13-14,7-8.

1 Row at midpt

1 Brace at Jt(s): 6, 11

Structural wood sheathing directly applied or 5-10-7 oc purlins,

6-7, 4-10, 4-14, 5-8

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

Rigid ceiling directly applied or 6-0-0 oc bracing, Except:

12

35

Plate Offsets (X,Y)--[3:0-1-0,0-1-8], [4:0-4-4,0-1-12], [15:0-6-4,0-2-12] SPACING-**PLATES** LOADING (psf) CSI DEFL. in (loc) I/def L/d **GRIP** TCLL 25.0 Plate Grip DOL 1.15 TC 0.55 Vert(LL) 0.08 14-15 >999 240 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 BC 0.83 Vert(CT) -0.13 14-15 >999 180 **BCLL** 0.0 Rep Stress Incr NO WB 0.48 Horz(CT) -0.04 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Matrix-MS Weight: 146 lb

BRACING-LUMBER-TOP CHORD

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

**OTHERS** 2x4 SPF No.2

Builders FirstSource (Valley Center),

(size) 7=0-3-8, 17=0-3-8, 9=0-9-0 Max Horz 17=365(LC 8)

Max Uplift 7=-201(LC 8), 17=-262(LC 8), 9=-329(LC 8) Max Grav 7=600(LC 1), 17=686(LC 35), 9=750(LC 1)

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

2-3=-910/601, 3-4=-427/105, 2-17=-689/418 TOP CHORD **BOT CHORD** 15-16=-451/176, 3-15=-492/368, 14-15=-850/853

**WEBS** 15-17=-300/125, 2-15=-444/673, 4-10=-429/327, 4-14=-168/328, 3-14=-653/712,

8-10=-677/332

REACTIONS.

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated
- 5) Gable studs spaced at 1-4-0 oc.
- 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) 7=201, 17=262, 9=329. 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 LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 1-11-0 oc max. starting at 13-5-0 from the left end to 15-4-0 to connect truss(es) to front face of bottom chord.
- 11) Fill all nail holes where hanger is in contact with lumber.
- 12) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (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) 168 lb down and 475 lb up at 2-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

# COARIGASE(S)geStandard

# \Lambda 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



VIEWIRE DESSIONAL . PE-2001018807 April 20,2021

OF MISS

SCOTT M.

SEVIER

Truss Type Job Truss Qty Roeser/1483 Winterset **GABLE** 2720415 E09

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES4 LEE'S SUMMIT. MISSOURI

Job Reference (optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09/36448 2021 Fags 1D:ja0L6Z4CEmlyeqhDgBS87bzZkjf-ChfmdHAj2vis elf\_Spj (3 Hi w) 1/40 by 1/30 VE Brinn

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

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, 4-6=-70, 16-17=-20, 13-15=-20, 7-12=-20

Concentrated Loads (lb)

Vert: 7=-283(F) 16=120(F) 10=-276(F)

16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty Roeser/1483 Winterset 2720415 F01 Jack-Closed 2 Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVIGES5 LEE'S SUMMIT. MISSOURI

Scale = 1:21.1

Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

0-10-8

8-2-0 2-4-15

2x4 || 5 2x4 📏 4.00 12 13 2x4 || 0-6-12 6 3x4 =3x4 =

	1-0-4 1 <sub>1</sub> 2 <sub>1</sub> 0 1-0-4 0-1-1	2	8-2-0 7-0-0	
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 0.28 BC 0.36 WB 0.06 Matrix-AS	DEFL.         in (loc)         l/defl         L/d           Vert(LL)         -0.08         6-7         >999         240           Vert(CT)         -0.15         6-7         >551         180           Horz(CT)         0.00         6         n/a         n/a	PLATES GRIP MT20 197/144  Weight: 27 lb FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS.

6=Mechanical, 7=0-3-8 (size) Max Horz 7=133(LC 11) Max Uplift 6=-69(LC 8), 7=-154(LC 8) Max Grav 6=285(LC 1), 7=498(LC 1)

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

TOP CHORD 3-4=-263/97

**WEBS** 4-6=-263/251, 3-7=-330/365

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; 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 8-0-4 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.

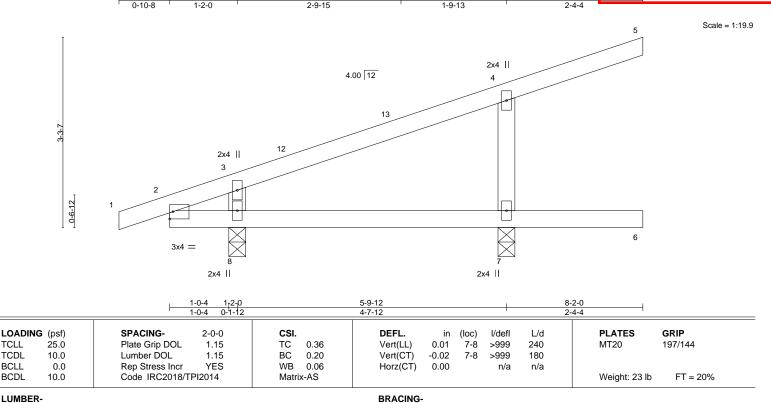
2x4 ||

- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 7=154
- 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.





RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Roeser/1483 Winterset AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES6 2720415 F02 Jack-Closed 5 LEE'S SUMMIT. MISSOURI Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Ind 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Am 19 09/30-50 2021 Page 2 ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-83nX2zBzaXyaBx 15trB4 88 jz UBB2021 Bsk 2z l Bh Builders FirstSource (Valley Center), Valley Center, KS - 67147,



TOP CHORD

BOT CHORD

8-2-0

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-TOP CHORD BOT CHORD

REACTIONS.

**TCLL** 

**TCDL** 

**BCLL** 

BCDL

2x4 SPF No 2 2x4 SPF No.2

WEBS 2x4 SPF No.2

> 7=0-3-8, 8=0-3-8 (size) Max Horz 8=122(LC 8) Max Uplift 7=-108(LC 8), 8=-104(LC 8)

Max Grav 7=440(LC 1), 8=356(LC 1)

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

4-7=-346/327, 3-8=-275/197 WEBS

# NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; 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 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=108, 8=104,
- 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.
- 5) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.







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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or 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 Roeser/1483 Winterset 2720415 F03 Jack-Open Structural Gable Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Ind Builders FirstSource (Valley Center), Valley Center, KS - 67147,

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

Scale = 1:13.9

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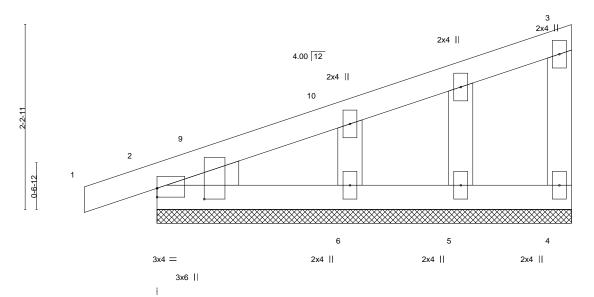


Plate Off	Plate Offsets (X,Y) [2:0-0-0,0-1-4], [2:0-1-9,0-6-13]											
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	-0.00	` <u>í</u>	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.01	1	n/r	120		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	I2014	Matri	x-P						Weight: 18 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 **OTHERS** 2x4 SPF No.2

WEDGE Left: 2x4 SPF No.2

REACTIONS. All bearings 4-11-14.

Max Horz 2=84(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 4, 2

Max Grav All reactions 250 lb or less at joint(s) 4, 5, 6 except 2=255(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=25ft; 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 4-10-2 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) 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.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 1-4-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 4-11-14 oc purlins,

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

except end verticals.



Job Truss Truss Type Qty Roeser/1483 Winterset 2720415 G01 Jack-Open Girder Job Reference (optional)

Valley Center, KS - 67147,

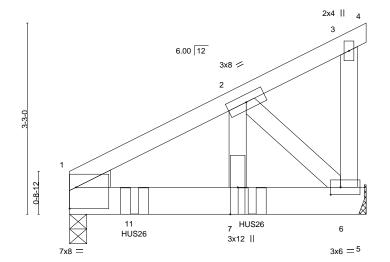
RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES8

LEE'S SUMMIT. MISSOURI 19109*[*38:54/2071-7999 /

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2-10-5

Scale = 1:19.6



2-10-5 2-10-5

Plate Off	fsets (X,Y)	[1:Edge,0-4-5], [6:0-2-0,0	0-1-8]									
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	-0.01	7-10	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.02	7-10	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.28	Horz(CT)	0.00	1	n/a	n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matri	x-MP						Weight: 23 lb	FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

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

Builders FirstSource (Valley Center),

WEDGE

Left: 2x4 SPF No.2

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

Max Horz 1=102(LC 25)

Max Uplift 1=-161(LC 8), 6=-192(LC 8) Max Grav 1=1187(LC 1), 6=922(LC 1)

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

TOP CHORD 1-2=-1050/134

**BOT CHORD** 1-7=-185/935, 6-7=-185/935 **WEBS** 2-7=-163/1124, 2-6=-1279/253

# NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=161, 6=192.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) Use Simpson Strong-Tie HUS26 (14-10d Girder, 6-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 1-1-4 from the left end to 3-1-4 to connect truss(es) to back face of bottom chord.
- 7) Fill all nail holes where hanger is in contact with lumber.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard

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

Vert: 1-3=-70, 3-4=-20, 5-8=-20

Concentrated Loads (lb)

Vert: 7=-835(B) 11=-835(B)



Structural wood sheathing directly applied or 5-0-8 oc purlins.

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

April 20,2021



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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



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Roeser/1483 Winterset AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVIGES9 2720415 G02 Jack-Open 3 LEE'S SUMMIT. MISSOURI Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19109/30555/2021-9: ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-V1aQ5hF6P3bsliL? QRMnh r6.3344Sy/YC V/Pb2P 19109/38:55/2021-Page 2 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

5-0-8

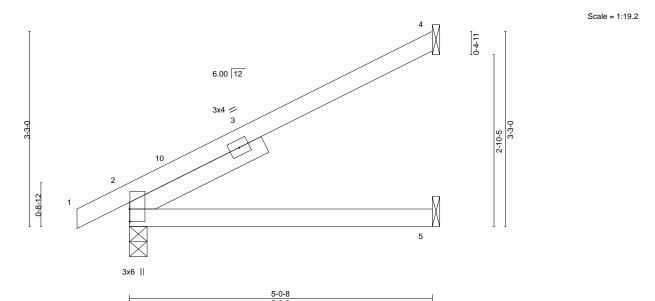


Plate Offsets (X,Y)--[2:0-2-8,0-0-1] SPACING-**PLATES** GRIP LOADING (psf) CSI. DEFL. in (loc) I/defI L/d 25.0 Plate Grip DOL TCLL 1.15 TC 0.34 Vert(LL) 0.04 5-8 >999 240 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 BC 0.24 Vert(CT) -0.06 5-8 >985 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.02 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Weight: 16 lb Matrix-AS

BRACING-

TOP CHORD

**BOT CHORD** 

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

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

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

Max Horz 2=117(LC 12)

Max Uplift 4=-84(LC 12), 2=-38(LC 12)

Max Grav 4=155(LC 1), 2=291(LC 1), 5=88(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=25ft; 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 4-11-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

0-10-8

- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.







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



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Roeser/1483 Winterset AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICESO 2720415 G03 Jack-Open LEE'S SUMMIT. MISSOURI Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19.09(36:66.2021 Rage 1 ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-zD8oJ1GkANjjvsvi S8ybK OW o/bz/kjf-legvz/zFB/h/ Builders FirstSource (Valley Center), Valley Center, KS - 67147, -0-10-8

4-7-5

Scale = 1:18.0

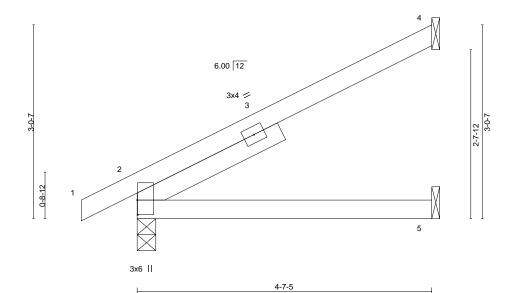


Plate Offsets (X,Y	- [2:0-2-12,0-0-1]		
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.28	Vert(LL) 0.03 5-8 >999 240 MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.20	Vert(CT) -0.04 5-8 >999 180
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.01 2 n/a n/a
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS	Weight: 15 lb FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

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

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

Max Horz 2=108(LC 12)

Max Uplift 4=-77(LC 12), 2=-36(LC 12)

Max Grav 4=141(LC 1), 2=272(LC 1), 5=80(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=25ft; 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 4-6-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

0-10-8

- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.





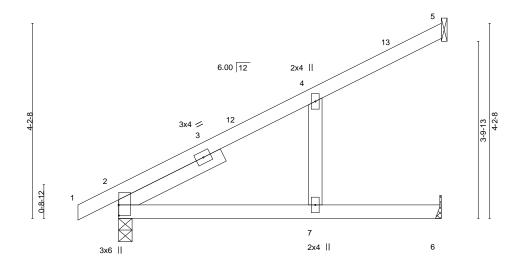
Job Truss Truss Type Qty Roeser/1483 Winterset 2720415 G04 Jack-Open Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Ind. Mon Apr 19 09 39 68 2021 S ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-vcGYjiH?h\_zR9A3a, Y\_3Py\_lagHnv3poz\_uTrXovz Builders FirstSource (Valley Center), Valley Center, KS - 67147,

4-2-14

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES1 LEE'S SUMMIT. MISSOURI

19109/3<del>8:</del>58/2071 Rage

Scale = 1:24.8



2-8-10

6-11-8 6-11-8

BRACING-

TOP CHORD

**BOT CHORD** 

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

Plate Off	sets (X,Y)	[2:0-2-12,0-0-1]			
LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.53	Vert(LL) 0.19 7-10 >436 240	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.62	Vert(CT) -0.29 7-10 >285 180	
BCLL	0.0	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.05 2 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 24 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 -t 2-6-0

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

Max Horz 2=150(LC 12)

Max Uplift 5=-64(LC 12), 2=-50(LC 12), 6=-36(LC 12) Max Grav 5=173(LC 1), 2=375(LC 1), 6=134(LC 1)

0-10-8

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

TOP CHORD 2-4=-432/222

# NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; 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 6-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2, 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.





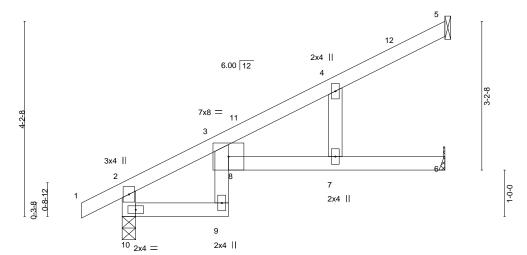
Job Truss Truss Type Qty Roeser/1483 Winterset 2720415 G05 Jack-Open 5 Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

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

Scale = 1:24.8

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09 34 01 2021 Rags ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-JBxhMkKt\_vL00do9Fh/m1b559UPLG955ARMBUFZPRm24-7-2

6-11-8 2-3-8 2-3-8 0-10-8 2-3-10 2-4-6



		2-3-8	4-7-2	6-11-8	
	ı	2-3-8	2-3-10	2-4-6	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. ir	n (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.54	Vert(LL) 0.18	3 7-8 >460 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.58	Vert(CT) -0.26	7-8 >309 180	
BCLL 0.0	Rep Stress Incr YES	WB 0.02	Horz(CT) 0.10	) 6 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS			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

REACTIONS.

5=Mechanical, 6=Mechanical, 10=0-3-8 (size) Max Horz 10=143(LC 12)

Max Uplift 5=-64(LC 12), 6=-35(LC 12), 10=-51(LC 12) Max Grav 5=167(LC 1), 6=132(LC 1), 10=381(LC 1)

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

TOP CHORD 2-10=-359/175, 2-3=-311/45

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-0-15, Interior(1) 2-0-15 to 6-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 10 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) 5, 6, 10.
- 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.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.



Job Truss Truss Type Qty Roeser/1483 Winterset 2720415 G06 Half Hip Girder Job Reference (optional) Builders FirstSource (Valley Center),

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES3 LEE'S SUMMIT. MISSOURI

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09/3+02/2011 S ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-nNV3Z4KVIDTtdnI LoO3? O IC up 22 app 5/9bc 19 09 34:02 2021 Page

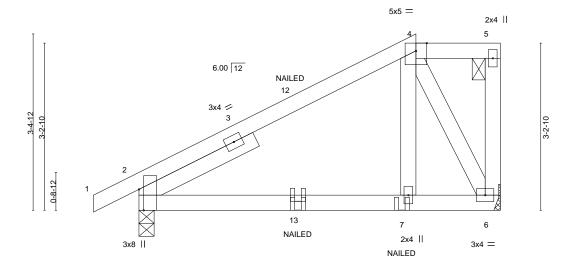
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

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

Valley Center, KS - 67147, 5-4-0 5-4-0 0-10-8 1-7-8

Scale = 1:22.2



6-11-8 5-4-0 1-7-8

Plate Oils	sels (X,Y)	[2:0-4-13,Edge]											
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	0.39	Vert(LL)	0.04	7-10	>999	240	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.04	7-10	>999	180			
BCLL	0.0	Rep Stress Incr	NO	WB	0.06	Horz(CT)	0.02	2	n/a	n/a			
BCDL	10.0	Code IRC2018/TP	12014	Matri	x-MP						Weight: 30 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 -t 2-6-0

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

Max Horz 2=124(LC 7)

Max Uplift 2=-129(LC 8), 6=-157(LC 5) Max Grav 2=356(LC 1), 6=287(LC 1)

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

**WEBS** 4-6=-323/209

# 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=129, 6=157,
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

## LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-70, 4-5=-70, 6-8=-20

Concentrated Loads (lb)

Vert: 7=6(B) 13=26(B)









Job Truss Truss Type Qty Roeser/1483 Winterset 2720415 G07 Jack-Partial Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09/34 03 2021 Rags 1D:ja0L6Z4CEmlyeqhDgBS87bzZkjf-GZ3RnQL7WWbkf-xyXM6aEg0BRs/12\_k3V\_2/lib\_Pkm/ Builders FirstSource (Valley Center), Valley Center, KS - 67147,

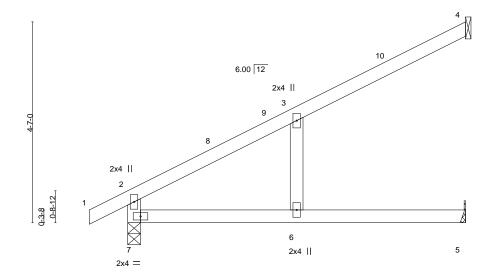
3-10-4

3-10-4

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES4 LEE'S SUMMIT. MISSOURI

19 09 34:03 2021 Page 1

Scale = 1:26.3



LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL Vert(LL) 0.26 >343 240 197/144 **TCLL** 1.15 TC 0.57 6 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.75 Vert(CT) -0.41 6 >217 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.03 Horz(CT) 0.08 4 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-AS Weight: 23 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, 5=Mechanical, 7=0-3-8 (size) Max Horz 7=154(LC 12)

Max Uplift 4=-76(LC 12), 5=-24(LC 12), 7=-56(LC 12) Max Grav 4=203(LC 1), 5=130(LC 1), 7=414(LC 1)

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

TOP CHORD 2-7=-284/120

# NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; 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 7-7-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

-0-10-8 0-10-8

- 3) Refer to girder(s) for truss to truss connections.
- 4) Refer to girder(s) for truss to truss connections.
- 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 100 lb uplift at joint(s) 4, 5, 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.

Rigid ceiling directly applied.



Job Truss Truss Type Qty Roeser/1483 Winterset 2720415 G08 Jack-Partial 5 Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Ap. 19,09/34032021- Rage / ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-GZ3RnQL7WWbkf-xyXM6aEf0EPyl2zk3Z 2/liazh km/ Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES5 LEE'S SUMMIT. MISSOURI

19 09/34:03/2021 Rage

-0-10-8 0-10-8 7-8-8 1-3-8 1-0-0 2-6-12 2-10-4

Scale = 1:26.3 12 2x4 || 6.00 12 7x8 = 3 4x4 || 7 1-0-0 0-3-8 2x4 || 9 10 2x4 || 2x4 =

7-8-8

Rigid ceiling directly applied.

Structural wood sheathing directly applied, except end verticals.

Plate Offsets (X,Y)	[2:0-2-0,0-1-12]			
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 0.67	Vert(LL) 0.25 7-8 >355 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.74	Vert(CT) -0.41 7-8 >221 180	
BCLL 0.0	Rep Stress Incr YES	WB 0.02	Horz(CT) 0.15 6 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 23 lb FT = 20%

BRACING-

TOP CHORD

4-10-4

LUMBER-

REACTIONS.

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

**BOT CHORD** 

(size) 5=Mechanical, 6=Mechanical, 10=0-3-8 Max Horz 10=154(LC 12)

Max Uplift 5=-67(LC 12), 6=-33(LC 12), 10=-56(LC 12) Max Grav 5=190(LC 1), 6=143(LC 1), 10=414(LC 1)

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

TOP CHORD 2-10=-393/176, 2-3=-354/45

### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-0-15, Interior(1) 2-0-15 to 7-7-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 10 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) 5, 6, 10.
- 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.





Job Truss Truss Type Qty Roeser/1483 Winterset 2720415 G09 Half Hip Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES6 LEE'S SUMMIT. MISSOURI

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 1909(34) 1,2031—Rage (ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-16YTS9R8e\_cbCAZ lqnj6Rh W Fvvhczyvt\_nj/gz/Emb

<del>-0-10-8</del> <del>0-10-8</del> 7-8-8 0-8-3 7-0-5 4-8-13

Scale = 1:27.4 4x4 = 2x4 || 5 6 6.00 12 2x4 || 14 2x4 = 0-8-12 3x4 = Ŀ 9 2x4 ||

2-3-8	7-8-8
2-3-8	5-5-0

Plate Off	sets (X,Y)	[2:0-4-13,Edge]							
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 0.82	Vert(LL) 0	0.31 9	>298 2	40	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.31	Vert(CT) -0	0.45 9	>200 1	80		
BCLL	0.0	Rep Stress Incr YES	WB 0.05	Horz(CT) 0	0.22 7	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS					Weight: 29 lb	FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

2-0-0 oc purlins: 5-6.

Rigid ceiling directly applied.

LUMBER-

**BOT CHORD** 

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

5-6: 2x4 SPF No.2 2x4 SPF No.2

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

REACTIONS. (size) 7=Mechanical, 2=0-3-8 Max Horz 2=153(LC 12)

Max Uplift 7=-106(LC 12), 2=-59(LC 12) Max Grav 7=337(LC 1), 2=405(LC 1)

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

TOP CHORD 2-4=-374/200 **WEBS** 5-7=-268/222

- 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-0-15, Interior(1) 2-0-15 to 7-0-5, Exterior(2E) 7-0-5 to 7-6-12 zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 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) 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



Job Truss Truss Type Qty Roeser/1483 Winterset 2720415 G10 Half Hip Girder Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Mar 22 2021 MiTek Industries, Inc

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVIGES7 LEE'S SUMMIT. MISSOURI

Scale = 1:22.9

19 09 34 16 2021 7 299 Mon Apr

ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-N3LMVsVHSWEuJxF1dKJH8IDhiXb1Hxxe1GUUtzF 0-10-8 5-4-1

NAILED

5x5 = 2x4 || NAILED 12 6.00 12 3x4 🖊 3-2-11 0-8-12 13 2x4 || 3x4 =3x6 II NAILED NAILED

5-4-1

BRACING-

TOP CHORD

**BOT CHORD** 

T late One	JC13 (71, 1)	[2.0 0 10,0 0 1]			
LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.39	Vert(LL) 0.03 7-10 >999 240	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.30	Vert(CT) -0.05 7-10 >999 180	
BCLL	0.0	Rep Stress Incr NO	WB 0.09	Horz(CT) 0.02 2 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-MP		Weight: 32 lb FT = 20%

LUMBER-

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

Plate Offsets (X V)-- [2:0-3-13 0-0-1]

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

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

Max Horz 2=124(LC 28)

Max Uplift 2=-107(LC 8), 6=-143(LC 5) Max Grav 2=405(LC 1), 6=337(LC 1)

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

**WEBS** 4-6=-339/153

# 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=25ft; 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
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=107, 6=143,
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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 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: 1-4=-70, 4-5=-70, 6-8=-20

Concentrated Loads (lb)

Vert: 7=0(F) 13=-0(F)



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

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

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







Job Truss Truss Type Qty Roeser/1483 Winterset 2720415 G11 Jack-Closed Girder Job Reference (optional)

Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVIGES8

LEE'S SUMMIT. MISSOURI 19 09/34 17 2021 Rage

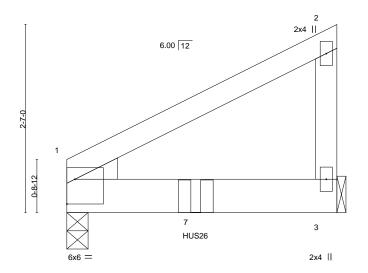
8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Am 19 09/341 72021 Rago ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-rGvkjCWvDqMlx50DB2qWgyml2 r9 CNpcwt2pkz2thm

Structural wood sheathing directly applied or 3-8-8 oc purlins,

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

except end verticals.

Scale = 1:15.8



3-8-8

3-8-8

Plate Off	sets (X,Y)	[1:Edge,0-4-1]										
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	-0.02	3-6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.04	3-6	>975	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.01	1	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-MP						Weight: 14 lb	FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

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

Builders FirstSource (Valley Center),

WEDGE

Left: 2x4 SPF No.2

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

Max Horz 1=84(LC 7)

Max Uplift 3=-77(LC 8), 1=-52(LC 8) Max Grav 3=544(LC 1), 1=548(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=25ft; 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) 3, 1.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) Use Simpson Strong-Tie HUS26 (14-10d Girder, 6-10d Truss, Single Ply Girder) or equivalent at 1-9-4 from the left end to connect truss(es) to back face of bottom chord.
- 7) Fill all nail holes where hanger is in contact with lumber.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

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

Vert: 1-2=-70, 3-4=-20 Concentrated Loads (lb) Vert: 7=-771(B)









Job Truss Truss Type Qty Roeser/1483 Winterset 2720415 G13 Jack-Open Girder Job Reference (optional)

Valley Center, KS - 67147,

Structural wood sheathing directly applied or 2-10-0 oc purlins.

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

LEE'S SUMMIT. MISSOURI

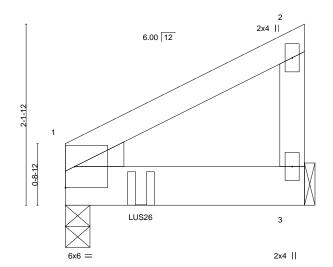
RELEASE FOR CONSTRUCTION

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES9

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Ap., 19,09(3-x) 8,2021- 2398 ; ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-JST6wYXX\_7UbYF-DQklLIDQ15wl GDJz-XU-zJkpzZFBJr.

2-10-0

Scale = 1:13.7



2-10-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL 1.15 Vert(LL) -0.01 240 197/144 **TCLL** TC 0.15 3-6 >999 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.32 Vert(CT) -0.01 >999 180 3-6 **BCLL** 0.0 Rep Stress Incr NO WB 0.01 Horz(CT) 0.00 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-MP Weight: 11 lb FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

2-10-0

LUMBER-

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

Builders FirstSource (Valley Center),

WEDGE

Left: 2x4 SPF No.2

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

Max Horz 1=55(LC 25)

Max Uplift 3=-57(LC 8), 1=-34(LC 8) Max Grav 3=291(LC 1), 1=610(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=25ft; 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
- 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) 3, 1.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) Use Simpson Strong-Tie LUS26 (4-10d Girder, 4-10d Truss, Single Ply Girder) or equivalent at 0-10-12 from the left end to connect truss(es) to front face of bottom chord.
- 7) Fill all nail holes where hanger is in contact with lumber.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

## LOAD CASE(S) Standard

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

Uniform Loads (plf)

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

Vert: 6=-660(F)





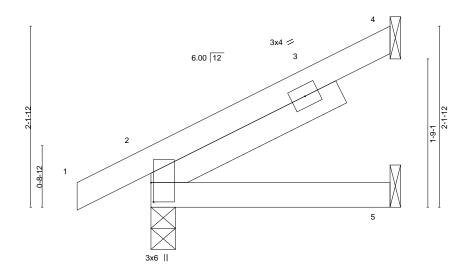




RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Roeser/1483 Winterset AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 2720415 G14 Jack-Open LEE'S SUMMIT. MISSOURI Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Ind. Mon Apr 19 09 04 20 2021 Page 1 ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-GrbtLEYoWlkJoYlpsAODII OBP 16 DKEy ISOget First Builders FirstSource (Valley Center), Valley Center, KS - 67147, 2-10-0

2-10-0

Scale = 1:13.7



2-10-0

BRACING-

TOP CHORD

**BOT CHORD** 

Plate Offsets (X,Y)	[2:0-2-12,0-0-5]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.09	Vert(LL) -0.00 8 >999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.06	Vert(CT) -0.00 5-8 >999 180	
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 2 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP		Weight: 11 lb FT = 20%

LUMBER-

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

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

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

Max Horz 2=72(LC 12)

Max Uplift 4=-49(LC 12), 2=-28(LC 12) Max Grav 4=84(LC 1), 2=196(LC 1), 5=46(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=25ft; 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 2-9-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

0-10-8



Structural wood sheathing directly applied or 2-10-0 oc purlins.

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



Job Truss Truss Type Qty Ply Roeser/1483 Winterset 2720415 **GR01** Piggyback Base Girder Job Reference (optional) RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVIGES1 LEE'S SUMMIT. MISSOURI

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Am 19,09/3+26,2021 Page 1 ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-4\_y8cHdZ5bVTWTC CRVdYse Nz xgdg76K vy0JzP kmBz

Structural wood sheathing directly applied or 4-0-11 oc purlins,

1-23, 2-22, 3-21

except end verticals, and 2-0-0 oc purlins (2-10-0 max.): 1-9.

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

1 Row at midpt

24-2-12 28-6-0 3-10-13 3-7-5 4-3-4 4-5-0 4-5-0 4-3-4 3-5-4

2x4 || Scale = 1:74.4 7x8 = 6x6 = 7x8 = 4x6 = 3x6 = 3x4 = 4x6 = <sub>9</sub>6x6 = 6.00 12 8 5x5 <> 6x6 > 11 3-1-12 30 18 13 <sub>38</sub> 15 14 12 31 32 33 16 34 35 37 39 29  $_{\rm 5x5} = _{\rm LUS26.7x8} =$ = LUS26 LUS26 7x8 WB =8x8 12x16 = 8x8 3x4 22 26 <sup>⊠</sup> 24 25 28 LUS26 20 7x8 = LUS26 LUS26 LUS26 LUS26 HUS26 LUS26 LUS26 3x4 = 7x8 = 8x12 = 3x12 || LUS26 LUS24 LUS24 LUS24 HUS26 LUS26

		3-10-13 3-7-5	3-7-5	4-3-4	4-5-0	4-5-	0 4	-3-4	3-5-4	3-8-12	
Plate Offs	sets (X,Y)	[1:Edge,0-2-0], [2:0-2-0,	0-1-12], [3:0-2-	4,0-2-0], [9:0-3-	8,0-2-4], [11:Edge	,0-1-12], [1	13:0-3-8,0-3-8]	[15:0-3-	8,0-4-4], [17:0	)-3-8,0-4-8], [21:0	-6-0,0-3-4],
	,	[22:0-2-8,0-2-0]									
LOADING	G (psf)	SPACING-	2-0-0	CSI.	1	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC 0	.83 \	/ert(LL)	-0.35 18-19	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0	.61 \	/ert(CT)	-0.62 18-19	>685	180		
BCLL	0.0	Rep Stress Incr	NO	WB 0	.90 H	Horz(CT)	0.20 12	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matrix-N	//S					Weight: 50	08 lb FT = 20%

TOP CHORD

**BOT CHORD** 

**WEBS** 

I UMRER-BRACING-

11-1-8

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x6 SPF 2100F 1.8E \*Except\*

20-23: 2x6 SPF No.2, 4-20: 2x4 SPF No.2

2x4 SPF No.2 \*Except\*

WEBS

1-23,1-22,2-22,3-21,3-19: 2x4 SPF 1650F 1.5E

**OTHERS** 2x4 SPF No 2

REACTIONS. (size) 23=0-3-8, 12=0-3-8

Max Horz 23=-312(LC 6)

Max Uplift 23=-2255(LC 4), 12=-1945(LC 4) Max Grav 23=8280(LC 1), 12=8337(LC 1)

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

TOP CHORD  $1-23 = -7600/2022, \ 1-2 = -3382/963, \ 2-3 = -5905/1560, \ 3-4 = -10276/2614, \ 4-6 = -11782/2915, \ 3-4 = -10276/2614, \ 4-6 = -11782/2915, \ 3-4 = -10276/2614, \ 4-6 = -11782/2915, \ 3-4 = -10276/2614, \ 4-6 = -11782/2915, \ 3-4 = -10276/2614, \ 4-6 = -11782/2915, \ 3-4 = -10276/2614, \ 4-6 = -11782/2915, \ 3-4 = -10276/2614, \ 4-6 = -11782/2915, \ 3-4 = -10276/2614, \ 4-6 = -11782/2915, \ 3-4 = -10276/2614, \ 4-6 = -11782/2915, \ 3-4 = -10276/2614, \ 4-6 = -11782/2915, \ 3-4 = -10276/2614, \ 4-6 = -11782/2915, \ 3-4 = -10276/2614, \ 4-6 = -11782/2915, \ 3-4 = -10276/2614, \ 4-6 = -102$ 

6-7=-11782/2915, 7-8=-11837/2887, 8-9=-10412/2538, 9-10=-8457/2056,

10-11=-6626/1588, 11-12=-7641/1789

**BOT CHORD** 21-22=-967/3382, 19-20=-243/1090, 4-19=-2388/608, 18-19=-2633/10337, 17-18=-2891/11837, 15-17=-2542/10412, 14-15=-1823/7523, 13-14=-1400/5871 WEBS

1-22=-2179/8198, 2-22=-6131/1585, 2-21=-1576/6360, 3-21=-8051/1988,

19-21=-1778/6710, 3-19=-2162/8968, 4-18=-598/2569, 6-18=-304/133, 8-17=-612/2497,

8-15=-2354/633, 9-15=-1289/5179, 9-14=-787/224, 10-14=-720/2814, 10-13=-3368/801,

11-13=-1730/7373

# 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.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 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) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; 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) Bearing at joint(s) 23, 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 23=2255, 12=1945.





SSIONAL

OF MISS

SCOTT M.

SEVIER

UMBE

PE-2001018807

Job Truss Truss Type Qty Ply Roeser/1483 Winterset 2720415 **GR01** Piggyback Base Girder Job Reference (optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09 34 26 2021 Rags 2
ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-4\_y8cHdZ5bVTWTC CRVdYse N2 xgdF76K v9022 km/s Builders FirstSource (Valley Center),

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

Valley Center, KS - 67147,

- 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 LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent at 0-8-12 from the left end to connect truss(es) to back face of bottom chord.
- 11) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-8-12 from the left end to 6-8-12 to connect truss(es) to back face of bottom chord.
- 12) Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent spaced at 16-0-0 oc max. starting at 8-8-12 from the left end to 24-8-12 to connect truss(es) to back face of bottom chord.
- 13) Use Simpson Strong-Tie LUS26 (4-10d Girder, 4-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 10-11-12 from the left end to 22-8-12 to connect truss(es) to back face of bottom chord.
- 14) Use Simpson Strong-Tie LUS26 (4-10d Girder, 4-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 26-8-12 from the left end to 34-8-12 to connect truss(es) to back face of bottom chord.
- 15) Fill all nail holes where hanger is in contact with lumber.

#### LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-9=-70, 9-11=-70, 20-23=-20, 12-19=-20

Concentrated Loads (lb)

Vert: 20=-811(B) 14=-691(B) 24=-635(B) 25=-630(B) 26=-638(B) 27=-639(B) 28=-865(B) 29=-811(B) 30=-811(B) 31=-811(B) 32=-811(B) 33=-811(B) 34=-811(B) 35=-849(B) 36=-738(B) 37=-691(B) 38=-691(B) 39=-693(B)

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVIGES2

LEE'S SUMMIT, MISSOURI

Scale = 1:72.9

Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon April 19109/3433.2021 P ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-NLtn4giySkNTrYFI7 P7HKKQU O Z/npesx 66/102 19 09 34-33 2021 Rage 35-8-0

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 19-9-12 28-6-0 31-11-4 4-1-0 3-9-8 2-7-8 4-4-2 4-4-2 4-4-2 3-5-4

6.00 12 12x22 MT18HS = 4x4 = 6x6 = 2x4 || 4x4 = 4x8 6x6 = 7x8 = 6x6 =6x6 =10 5x5 > 11 6x8 > 3-1-12 ш 20 2-0-0  $_{33}3x\overline{4} =$ 19 18 14 16 28 15 32 25 17 29 30 31 26 27 7x8 7x8 = HUS26 12x16 = 5x12 MT20HS = HUS26 7x8 = HUS26 HUS26 HUS26 23 22 21 HUS26 HUS26 Special 6x6 = 8x8 = 3x12 MT18HS || 12x16 = 6x8 = 3x12 || HUS26 HUS26 HUS26 HUS26

	4-1-0 3-9-6 0-7-6 2	-7-0 4-4-2	4-4-2	4-4-2	4-4-2	3-3-4 3-0-12	
Plate Offsets (X,Y)	[1:0-2-8,0-1-12], [2:0-3-0,0-1-12], [4:1-8	3-0,0-4-8], [10:0-4-0,0-1-1	5], [12:Edge,0-1-1	2], [14:0-3-8,0-3-	8], [15:0-3-8,0-4-4	, [16:0-3-8,0-4-4], [18:0-	2-4,0-4-8],
	[19:0-4-0,0-4-4], [22:0-3-8,0-5-4], [23:0	-2-0,0-2-0]					
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)	-0.31 19-20	>999 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.59	Vert(CT)	-0.54 19-20	>781 180	MT20HS	148/108
BCLL 0.0	Rep Stress Incr NO	WB 0.97	Horz(CT)	0.20 13	n/a n/a	MT18HS	197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS				Weight: 543 lb	FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

OR THE BUILDING DESIGNER

WEBS

19-9-12

LUMBER-

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

1-3,10-12: 2x4 SPF No.2

**BOT CHORD** 2x6 SPF 2100F 1.8E \*Except\*

21-24: 2x6 SPF No.2, 5-21: 2x4 SPF No.2

2x4 SPF No.2 \*Except\* **WEBS** 4-20: 2x4 SPF 1650F 1.5E

REACTIONS. (size) 24=0-3-8 (req. 0-4-13), 13=0-3-8

Max Horz 24=-300(LC 6)

Max Uplift 24=-1396(LC 4), 13=-1425(LC 4)

Max Grav 24=6107(LC 1), 13=8613(LC 1)

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

TOP CHORD 1-24=-6054/1386, 1-2=-2911/722, 2-3=-5496/1282, 3-4=-6162/1441, 4-5=-9865/2272,

5-6=-11867/2453, 6-7=-11867/2453, 7-9=-12166/2366, 9-10=-10962/2040,

10-11=-8963/1609, 11-12=-7107/1232, 12-13=-8195/1382

22-23=-732/2911, 20-21=-627/1006, 5-20=-2959/411, 19-20=-2295/9955, **BOT CHORD** 

18-19=-2373/12166, 16-18=-2045/10960, 15-16=-1424/7986, 14-15=-1080/6300 1-23=-1500/6587, 2-23=-5844/1410, 20-22=-1664/7165, 4-20=-2280/10077,

5-19=-378/3352, 6-19=-359/144, 7-19=-526/0, 7-18=-164/299, 9-18=-577/2159,

9-16=-2208/634, 10-16=-1098/5304, 10-15=-540/238, 11-15=-583/2935, 11-14=-3402/645,

 $12\text{-}14\text{=-}1329/7918,\ 3\text{-}22\text{=-}2987/721,\ 2\text{-}22\text{=-}1406/6162,\ 4\text{-}22\text{=-}6624/1478}$ 

#### NOTES-

WEBS

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, 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 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=25ft; 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) WARNING: Required bearing size at joint(s) 24 greater than input bearing size.
- 9) Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify

Continuacity of bearing surface.



April 20,2021





MiTek

Structural wood sheathing directly applied or 3-10-12 oc purlins,

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

1 Row at midpt

SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR

OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.)
ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER

except end verticals, and 2-0-0 oc purlins (4-2-11 max.): 1-3, 4-10.

1-24, 2-23, 4-22

Job Truss Truss Type Qty Ply Roeser/1483 Winterset 2720415 **GR02** Piggyback Base Girder

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

Job Reference (optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09 3433 2021 Page 2

ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-NLtn4giySkNTrYF17 PTHKKCU O Z/nPe8x 66/102 PBn 42

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 24=1396, 13=1425

- 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.

Valley Center, KS - 67147,

- 13) Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent spaced at 4-0-0 oc max. starting at 10-11-12 from the left end to 33-7-4 to connect truss(es) to front face of bottom chord.
- 14) Fill all nail holes where hanger is in contact with lumber.
- 15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 884 lb down and 149 lb up at 13-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

#### LOAD CASE(S) Standard

Builders FirstSource (Valley Center),

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

Vert: 1-3=-70, 3-4=-70, 4-10=-70, 10-12=-70, 21-24=-20, 13-20=-20

Concentrated Loads (lb)

Vert: 21=-931(F) 17=-884(F) 19=-884(F) 18=-884(F) 25=-884(F) 26=-884(F) 27=-884(F) 28=-884(F) 29=-884(F) 30=-884(F) 31=-884(F) 32=-884(F) 32=-8

16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty Ply Roeser/1483 Winterset
2720415 GR03 Common Girder 1 2 Job Reference (optional)

Roeser/1483 Winterset

AS NOTED FOR PLAN REVIEW

DEVELOPMENT SLAFTIGE S3

Structural wood sheathing directly applied or 4-7-13 oc purlins,

4-14, 1-15

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

except end verticals.

1 Row at midpt

LEE'S SUMMIT, MISSOURI

RELEASE FOR CONSTRUCTION

8.430 s Mar 22 2021 MiTek Industries, Ind. Mon Apr 19109/34-34/2021 Rags 12 ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-sXR9H0jaD2VK ipVg6e Vt zi pVJS7IA3sRIZFB132 2

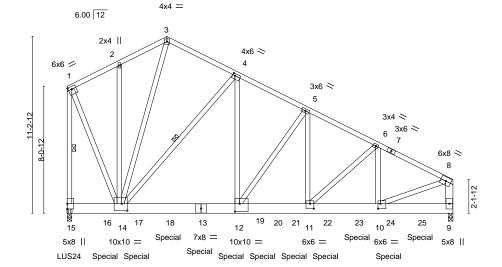
Valley Center, KS - 67147, 8.430 s

ID:ja0L6Z4CEmlys

10.9.10 15.3.4

ID;a0L6Z4CEmlyeqhDgBS87bzZkjf-sXR9H0jal 3-3-12 6-4-0 10-9-10 15-3-4 19-8-14 24-6-0 3-3-12 3-0-4 4-5-10 4-5-10 4-9-2

Scale = 1:73.2



10-9-10 24-6-0 3-3-12 15-3-4 3-3-12 7-5-14 4-5-10 4-5-10 Plate Offsets (X,Y)--[1:0-2-12,0-2-0], [4:0-1-12,0-1-8], [10:0-1-12,0-3-12], [11:0-3-0,0-3-12], [12:0-3-8,0-6-0], [14:0-4-4,0-5-4], [10:0-1-12,0-3-12], [10:0-3-0,0-SPACING-LOADING (psf) (loc) I/def L/d **PLATES** GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.66 Vert(LL) -0.12 12-14 >999 240 197/144 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.36 Vert(CT) -0.22 12-14 >999 180 **BCLL** 0.0 Rep Stress Incr NO WB 0.99 0.02 Horz(CT) n/a n/a Code IRC2018/TPI2014 **BCDL** 10.0 Matrix-MS Weight: 402 lb FT = 20%

TOP CHORD

**BOT CHORD** 

WEBS

LUMBER- BRACING-

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

Builders FirstSource (Valley Center),

8-9: 2x6 SPF No.2 (size) 15=0-3-8, 9=0-3-8

Max Horz 15=-353(LC 4)

Max Uplift 15=-1051(LC 9), 9=-931(LC 9) Max Grav 15=6742(LC 1), 9=6041(LC 1)

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

TOP CHORD 1-2=-2354/461, 2-3=-2316/487, 3-4=-1896/381, 4-5=-5271/887, 5-6=-6529/1055,

6-8=-6662/1033, 1-15=-5960/954, 8-9=-5306/840

BOT CHORD 14-15=-125/290, 12-14=-580/4653, 11-12=-819/5779, 10-11=-894/5892, 9-10=-80/355 WEBS 3-14=-303/1603, 4-14=-4617/838, 4-12=-722/4678, 5-12=-1956/412, 5-11=-287/1851,

6-10=-251/182, 1-14=-779/5219, 8-10=-877/5955

#### 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 0-7-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.

Bottom chords connected as follows: 2x8 - 2 rows staggered 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=25ft; 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) 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) 15=1051, 9=931.
- 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) Use Simpson Strong-Tie LUS24 (4-SD9112 Girder, 2-SD9212 Truss, Single Ply Girder) or equivalent at 0-1-12 from the left end to connect truss(es) to back face of bottom chord.
- 9) Fill all nail holes where hanger is in contact with lumber.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 884 lb down and 148 lb up at 2-5-4, 884 lb down and 144 lb up at 4-5-4, 884 lb down and 144 lb up at 8-5-4, 884 lb down and 144 lb up at 10-5-4, 884 lb down and 144 lb up at 10-5-4, 884 lb down and 144 lb up at 10-5-4, 884 lb down and 144 lb up at 16-5-4, 884 lb down and 144 lb up at 16-5-4, 884 lb down and 144 lb up at 18-5-4, and 884 lb down and 144 lb up at 20-5-4, and 884 lb down and 144 lb up at 22-5-4

  Continuation and 144 lb up at 18-5-4 and 144 lb up at 22-5-4 lb down and 144 lb up at 22-5-4.

SCOTT M.
SEVIER

PE-2001018807

PE-2001018807

April 20,2021

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



RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW Job Truss Truss Type Qty Ply Roeser/1483 Winterset DEVELOPMENT SERVIGES3 2720415 **GR03** Common Girder LEE'S SUMMIT. MISSOURI Builders FirstSource (Valley Center), Valley Center, KS - 67147,

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-70, 3-8=-70, 9-15=-20

Concentrated Loads (lb)

Vert: 15=-891(B) 13=-884(B) 16=-884(B) 17=-884(B) 18=-884(B) 19=-884(B) 20=-884(B) 21=-884(B) 22=-884(B) 23=-884(B) 24=-884(B) 25=-884(B) 25=-8



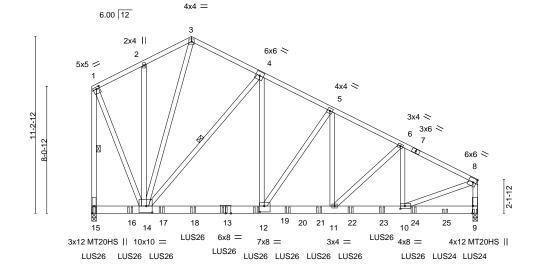
Job Truss Truss Type Qty Ply Roeser/1483 Winterset 2720415 **GR04** Common Girder 2 Job Reference (optional) RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09/3438 2071 Page 1 ID:jaoL6Z4CEmlyeqhDgBS87bzZkjf-klgg7Om4HH?myJ GvyiS1 07Rb 28 Bat5 qfRoe Bin?

Valley Center, KS - 67147, 15<del>-</del>3-4 19-8-14 3-0-4 4-5-10 4-5-10 4-5-10 4-9-2

Scale = 1:73.2



19-8-14 10-9-10 15-3-4 3-3-12 7-5-14 4-5-10 Plate Offsets (X,Y)--[1:0-2-8,0-1-8], [9:0-5-8,Edge], [10:0-3-8,0-2-0], [12:0-3-8,0-4-8], [14:0-4-8,0-5-0] SPACING-**PLATES** LOADING (psf) in (loc) I/def L/d **GRIP** TCLL 25.0 Plate Grip DOL 1.15 TC 0.49 Vert(LL) -0.14 12-14 >999 240 197/144 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.54 Vert(CT) -0.26 12-14 >999 180 MT20HS 148/108 **BCLL** 0.0 Rep Stress Incr NO WB 0.83 Horz(CT) 0.03 n/a n/a Code IRC2018/TPI2014 **BCDL** 10.0 Matrix-MS Weight: 341 lb FT = 20%

**BOT CHORD** 

**WEBS** 

BRACING-LUMBER-TOP CHORD

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x6 SPF 2100F 1.8E 2x4 SPF No.2 **WEBS** 

Builders FirstSource (Valley Center),

REACTIONS. (size) 15=0-3-8 (req. 0-3-10), 9=0-3-8

Max Horz 15=-356(LC 4)

Max Uplift 15=-1528(LC 9), 9=-1413(LC 9) Max Grav 15=5709(LC 1), 9=5513(LC 1)

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

 $1\hbox{-}2\hbox{-}-2006/628, 2\hbox{-}3\hbox{-}-1973/650, 3\hbox{-}4\hbox{-}-1634/507, 4\hbox{-}5\hbox{-}-4398/1247, 5\hbox{-}6\hbox{-}-5412/1469,}$ TOP CHORD

6-8=-5557/1430, 1-15=-5120/1384, 8-9=-4494/1166

14-15=-127/291, 12-14=-900/3873, 11-12=-1188/4778, 10-11=-1249/4905 BOT CHORD

**WEBS** 3-14=-434/1330, 4-14=-3806/1161, 4-12=-1073/3801, 5-12=-1587/501, 5-11=-386/1448,

1-14=-1161/4475, 8-10=-1277/5107

SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.)
ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER OR THE BUILDING DESIGNER.

4-14, 1-15

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

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

except end verticals.

1 Row at midpt

# 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.

Bottom chords connected as follows: 2x6 - 2 rows staggered 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=25ft; 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) 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) WARNING: Required bearing size at joint(s) 15 greater than input bearing size.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=1528, 9=1413,
- 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) Use Simpson Strong-Tie LUS26 (4-10d Girder, 4-10d Truss, Single Ply Girder) or equivalent spaced at 2-3-8 oc max. starting at 0-1-12 from the left end to 20-5-4 to connect truss(es) to front face of bottom chord.
- 11) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss) or equivalent spaced at 1-11-0 oc max. starting at 22-5-4 from the left end to 24-4-4 to connect truss(es) to front face of bottom chord.
- 12) Fill all nail holes where hanger is in contact with lumber.



April 20,2021

### COARIGASE(S)geStandard

🛕 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



RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW Job Truss Truss Type Qty Ply Roeser/1483 Winterset DEVELOPMENT SERVI©€34 2720415 GR04 Common Girder | ' | 2 | Job Reference (optional) | LEE'S SUMMIT, MISSOUR | 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09 34 38 2021 Rags 2 | ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-klgg7Om4HH?myJ GvyiS1 078b 73 Spat5 log Reg P 8 7 2 LEE'S SUMMIT. MISSOURI Builders FirstSource (Valley Center), Valley Center, KS - 67147,

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-70, 3-8=-70, 9-15=-20

Concentrated Loads (lb)

Vert: 15=-743(F) 13=-743(F) 9=-604(F) 16=-736(F) 17=-736(F) 18=-736(F) 19=-693(F) 20=-691(F) 21=-691(F) 22=-691(F) 23=-691(F) 24=-693(F) 25=-600(F)



Job Truss Truss Type Qty Roeser/1483 Winterset Flat Girder 2720415 **GR05** 

Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES5

LEE'S SUMMIT, MISSOURI

6-11-12 3-5-14 3-5-14

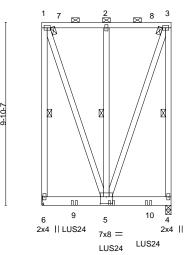
Scale = 1:62.2 3x4 = 2x4 || 3x4 =

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

1-6, 3-4, 2-5

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

1 Row at midpt



3-5-14 6-11-12

Plate Off	fsets (X,Y)	[5:0-4-0,0-4-8]										
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	-0.02	5-6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.03	5-6	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.46	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/Ti	PI2014	Matri	x-MP						Weight: 74 lb	FT = 20%

BRACING-

**WEBS** 

TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

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

Builders FirstSource (Valley Center),

(size) 6=Mechanical, 4=0-3-8 Max Uplift 6=-359(LC 4), 4=-393(LC 4) Max Grav 6=951(LC 1), 4=1026(LC 1)

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

1-6=-733/285, 3-4=-733/285 TOP CHORD

WFRS 1-5=-262/678, 2-5=-281/122, 3-5=-262/678

### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=359, 4=393,
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 1-9-2 from the left end to 5-9-2 to connect truss(es) to front face of bottom chord.
- 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: 1-3=-70, 4-6=-20 Concentrated Loads (lb)

Vert: 5=-458(F) 9=-458(F) 10=-458(F)



April 20,2021



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

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or 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 Roeser/1483 Winterset 2720415 H01 Jack-Closed 3 Job Reference (optional)

Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES6 LEE'S SUMMIT. MISSOURI

Scale = 1:59.3

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr, 19,0934-40,2031-Rage 1 ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-ghoRY3oLouGUBc He1Nlw6pDg Kg/mydoA / ?/JIUU2FEI;2

10-9-6

5-4-11 5-4-11

4x4 || 3 6.00 12 3x4 / 12 2 3x4 || 9-10-7 1-0-1 6 9 7x8 = 8 54 2x4 2x4 || 4x6 || 2x4 || 10-1-15 0-9-8

Plate Offsets (X,Y)	[6:0-2-12,0-2-8], [10:0-3-8,0-1-12]			
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 0.86	Vert(LL) -0.30 6-7 >419 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.68	Vert(CT) -0.60 6-7 >211 180	
BCLL 0.0	Rep Stress Incr YES	WB 0.40	Horz(CT) 0.19 4 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 61 lb FT = 20%

9-4-7

BRACING-

**WEBS** 

TOP CHORD

**BOT CHORD** 

LUMBER-

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

Builders FirstSource (Valley Center),

REACTIONS. (size) 4=Mechanical, 9=0-3-8

Max Horz 9=380(LC 9)

Max Uplift 4=-197(LC 9), 9=-55(LC 12) Max Grav 4=478(LC 1), 9=486(LC 20)

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

9-10=-411/298, 1-2=-331/274, 4-6=-496/343 TOP CHORD

**BOT CHORD** 7-10=-369/411, 6-7=-369/411

WFBS 2-10=-369/302, 2-6=-373/365, 7-8=-462/318

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; 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 10-7-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb) 4=197.
- 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.

1 Row at midpt



Job Truss Truss Type Qty Roeser/1483 Winterset 2720415 H02 Half Hip

Valley Center, KS - 67147,

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

Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Inc 8.430 s Mar 22 2021 MiTek Industries, Ind. Mon Apr 19:09/34-40/2021 Rags 1 ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-ghoRY3oLouGUBdh e1Nlw6oUp\_CsoveRA [?]IU/02 EB z

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

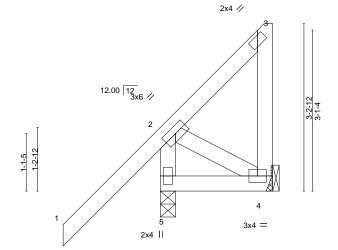
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

-1-10-8 1-10-8

2-0-0 2-0-0

Scale = 1:22.2



1-1-0	<sub>1</sub> 2-2-0
1-1-0	1-1-0

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 0.31	Vert(LL) -0.0	00 5	>999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.05	Vert(CT) -0.0	00 4-5	>999 180	
BCLL 0.0	Rep Stress Incr YES	WB 0.04	Horz(CT) -0.0	00 4	n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP				Weight: 15 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

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

Max Horz 5=168(LC 11)

Max Uplift 5=-60(LC 12), 4=-84(LC 9)

Max Grav 5=302(LC 1), 4=80(LC 8), 4=8(LC 1)

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

TOP CHORD 2-5=-283/155

# NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 2-0-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 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 Roeser/1483 Winterset 2720415 H03 Half Hip Girder Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Ind

Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES8

LEE'S SUMMIT. MISSOURI

Scale = 1:17.0

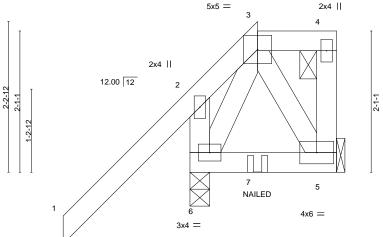
8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Am 19 09/3441 2021 Rage 1 ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-8tMplPpzZCO\_pnsra4690l; 14C2eF\_Inf2\_tx2eFly

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

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

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

2-2-0 1-10-8 1-0-0 1-2-0 5x5 =



1-0-0	2-2-0	1
1-0-0	1-2-0	-1

BOT CHORD

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	0.35	Vert(LL)	0.00	6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	5-6	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.02	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	PI2014	Matri	x-MP						Weight: 15 lb	FT = 20%

LUMBER-BRACING-TOP CHORD

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

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

Max Horz 6=124(LC 7)

Max Uplift 5=-61(LC 5), 6=-105(LC 8) Max Grav 5=53(LC 22), 6=302(LC 1)

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

TOP CHORD 2-6=-348/267

Builders FirstSource (Valley Center),

### 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 6=105
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard

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

Vert: 1-2=-70, 2-3=-70, 3-4=-70, 5-6=-20









Job Truss Truss Type Qty Roeser/1483 Winterset 2720415 H04 Monopitch Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Mar 22 2021 MiTek Industries, Industries RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT. MISSOURI

190934422021 - 2399 Mon Apr ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-d3wBylpbKVWCQxF18onOte 6N0\$LMZT(JdsZNzPBx

Scale: 1/2"=1 2x4 ||

Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

3 6.00 12 0-8-12 3x8 || 2x4 II

Plate Offs	ets (X,Y)	[1:0-3-8,Edge]										
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	0.08	4-7	>881	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.13	4-7	>541	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.03	1	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matrix	k-AS						Weight: 21 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 -t 2-6-0

REACTIONS. (size) 1=0-3-8, 4=0-3-8

Max Horz 1=136(LC 11) Max Uplift 1=-41(LC 12), 4=-81(LC 12)

Max Grav 1=269(LC 1), 4=269(LC 1)

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

TOP CHORD 1-3=-343/121

# NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; 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 5-11-12 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4.
- 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.
- 5) 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 Roeser/1483 Winterset 2720415 J01 Jack-Open Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Inc

Valley Center, KS - 67147,

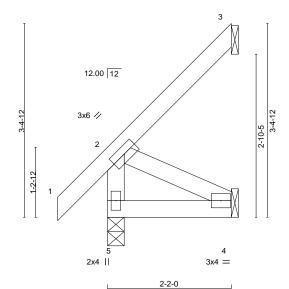
RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES

LEE'S SUMMIT. MISSOURI

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19,09/3442,2071-Rage 1 ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-d3wBylpbKVWCQx 18onOBBB00KHMitT0JsZKI2FBy

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

Scale = 1:20.2



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.13	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 0.06	Horz(CT) -0.00 3 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP		Weight: 11 lb FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

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

Builders FirstSource (Valley Center),

WEBS 2x4 SPF No.2

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

Max Horz 5=101(LC 12) Max Uplift 3=-53(LC 12), 4=-46(LC 12)

Max Grav 5=179(LC 1), 3=59(LC 19), 4=47(LC 10)

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

4-5=-295/107 **BOT CHORD** WEBS 2-4=-120/330

### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 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.



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

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

except end verticals.



Job Truss Truss Type Qty Roeser/1483 Winterset **GABLE** 2720415 LG1 Job Reference (optional)

Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVIGES1

LEE'S SUMMIT, MISSOURI

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Ap. 19,09/34444.2031-2393 ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-ZS1xNRrrs7mvgEa PGDpsl-fft/WhDqtz/mTldt/zg/z PB/

5-3-3 5-3-3 6-5-10

Scale = 1:59.5

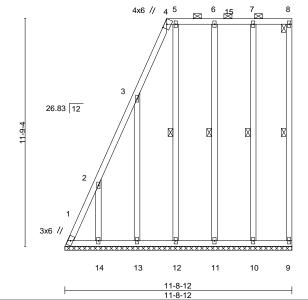


Plate Of	fsets (X,Y)	[4:0-2-13,Edge]										
LOADIN	\(\frac{1}{2}\)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.47	Horz(CT)	-0.00	9	n/a	n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matri	x-S						Weight: 98 lb	FT = 20%

LUMBER-BRACING-

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

Structural wood sheathing directly applied or 5-7-10 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-8. Rigid ceiling directly applied or 10-0-0 oc bracing.

1 Row at midpt

8-9, 7-10, 6-11, 5-12

REACTIONS. All bearings 11-8-12. Max Horz 1=468(LC 12) (lb) -

Builders FirstSource (Valley Center),

Max Uplift All uplift 100 lb or less at joint(s) 9, 10, 11 except 1=-448(LC 10), 12=-198(LC 12), 13=-453(LC 12),

14=-434(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 9, 10, 11, 12 except 1=922(LC 12), 13=346(LC 19), 14=335(LC 19)

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

TOP CHORD 1-2=-1090/872, 2-3=-649/522

5-12=-212/290, 3-13=-464/512, 2-14=-423/465 **WEBS** 

# NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) All plates are 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) 9, 10, 11 except (jt=lb) 1=448, 12=198, 13=453, 14=434.
- 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.





Job Truss Truss Type Qty Roeser/1483 Winterset 2720415 LG<sub>2</sub> **GABLE** Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Inc

Valley Center, KS - 67147,

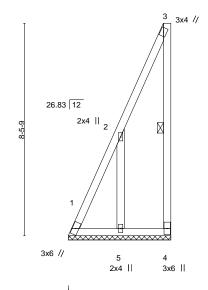
RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES2

LEE'S SUMMIT. MISSOURI

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09/3444 2021 Page 1 ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-ZS1xNRrrs7mvgEaCGDpsHN044DbrabmTdf,zgrz PBv

3-9-7

Scale = 1:45.9



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 0.75	Vert(LL)	n/a	-	n/a	999	MT20	197/144
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 0.16	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P						Weight: 29 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

**WEBS** 

LUMBER-

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

Builders FirstSource (Valley Center),

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

REACTIONS. (size) 1=4-1-0, 4=4-1-0, 5=4-1-0

Max Horz 1=324(LC 9)

Max Uplift 1=-364(LC 10), 4=-280(LC 11), 5=-512(LC 12) Max Grav 1=490(LC 9), 4=253(LC 8), 5=397(LC 19)

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

1-2=-1127/961, 2-3=-484/463, 3-4=-455/458 TOP CHORD

WEBS 2-5=-579/684

# NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; 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) 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) except (jt=lb) 1=364, 4=280, 5=512.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 4-1-0 oc purlins,

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

except end verticals.

1 Row at midpt



Job Truss Truss Type Qty Roeser/1483 Winterset **GABLE** 2720415 LG3 Job Reference (optional)

Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES3

LEE'S SUMMIT. MISSOURI

8.430 s Mar 22 2021 MiTek Industries, Ind. Mon Apr 19.09/3445-2021 Rage 1 ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-1ebKbnsTdQumlOpcpwK5\s\r\vDzcz\_dvi H0Wztz Bu

10-1-14 0-2-3 9-11-11

3x4 // 7 26.83 12 14 4x8 || 3x6 || 3x6 // 13 4x6 / 12 11 10 10-1-14

Scale = 1:104.3

						10-1-14						
Plate Off	sets (X,Y)	[1:0-3-15,Edge]										
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	0.38	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	-0.00	8	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matrix	k-S						Weight: 115 lb	FT = 20%

LUMBER-

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

Builders FirstSource (Valley Center),

WEDGE

Left: 2x4 SP No.3

BRACING-

TOP CHORD **BOT CHORD** 

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

**WEBS** 1 Row at midpt 2 Rows at 1/3 pts 9-15, 5-10, 4-11 7-8

Structural wood sheathing directly applied or 3-11-0 oc purlins,

**JOINTS** 1 Brace at Jt(s): 15

REACTIONS. All bearings 10-1-14.

Max Horz 1=893(LC 12) (lb) -

> Max Uplift All uplift 100 lb or less at joint(s) except 8=-178(LC 12), 1=-902(LC 10), 9=-458(LC 12), 10=-455(LC 12), 11=-436(LC 12), 12=-496(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 8 except 1=1823(LC 12), 9=356(LC

19), 10=347(LC 19), 11=335(LC 19), 12=381(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-2223/1749, 2-4=-1709/1343, 4-5=-1216/959, 5-6=-717/569

WEBS 9-15=-481/538, 6-15=-481/538, 5-10=-467/523, 4-11=-460/516, 2-12=-485/540

# NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 2x4 MT20 unless otherwise indicated.
- 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 178 lb uplift at joint 8, 902 lb uplift at joint 1, 458 lb uplift at joint 9, 455 lb uplift at joint 10, 436 lb uplift at joint 11 and 496 lb uplift at joint 12.
- 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 Roeser/1483 Winterset 2720415 LG4 **GABLE** Job Reference (optional)

Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES4

LEE'S SUMMIT, MISSOURI

Scale = 1:68.7

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Am 19109/3446-2021 Page / ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-Vr9io7t6Ok0dvYkoNesKL4Tv/cyHzUS xylmats Polity

10-11-10 4 2 3 Ø 3x4 \\ 13 26.83 12 12

> 4x6 \\ 10 9 8 10-11-10 4-5-15

Plate Offsets	(X,Y)	[1:0-0-13,0-1-8]

Builders FirstSource (Valley Center),

LOADIN	G (psf)	SPACING- 2	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20	197/144
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	0.13	Horz(CT)	-0.00	13	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI20	014	Matri	x-S	, ,					Weight: 103 lb	FT = 20%

\*\*\*\*

LUMBER-

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

WEBS

TOP CHORD **BOT CHORD**  2-0-0 oc purlins (6-0-0 max.): 1-7, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 1-14,13-14.

7-8, 6-9, 5-10, 4-12 1 Row at midpt

REACTIONS. All bearings 10-11-10.

Max Uplift All uplift 100 lb or less at joint(s) 8, 9, 10, 12, 13, 14 Max Grav All reactions 250 lb or less at joint(s) 1, 8, 11, 9, 10, 12, 13, 14

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 8, 9, 10, 12, 13, 14
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 12, 13, 14.
- 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.



April 20,2021



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

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or 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 Roeser/1483 Winterset 2720415 LG5 GABLE Job Reference (optional)

Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

8.430 s Mar 22 2021 MiTek Industries, Ind. Mon Apr 19.09/3447.2021 Rage 1 ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-z1j40Ttk928U) iJ\_xLN2ulj?yh1CzfrC1bydzazPBls

6-3-3 9-0-3 1-0-0 2-9-0 14-1-6 5-1-3

Scale = 1:101.6

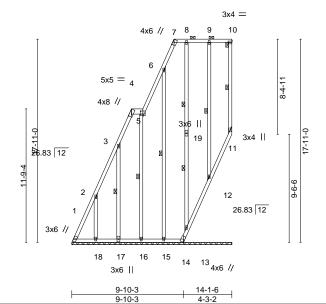


Plate Offsets (X,Y)--[4:0-3-0,Edge], [5:0-2-8,0-3-4], [7:0-2-13,Edge], [10:Edge,0-1-8] SPACING-**PLATES GRIP** LOADING (psf) DEFL. in (loc) I/defl L/d TCLL 25.0 Plate Grip DOL 1.15 TC 0.53 Vert(LL) 999 MT20 197/144 n/a n/a TCDL 10.0 Lumber DOL 1.15 ВС 0.20 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.45 Horz(CT) -0.02 11 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Weight: 141 lb Matrix-S

LUMBER-

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

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

Builders FirstSource (Valley Center),

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

**BOT CHORD WEBS** 

Structural wood sheathing directly applied or 4-3-11 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5, 7-10. Rigid ceiling directly applied or 6-0-0 oc bracing.

1 Row at midpt

2 Rows at 1/3 pts

10-11, 9-12, 6-15, 5-16, 3-17 8-13

REACTIONS. All bearings 14-1-6.

Max Horz 1=556(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 12 except 1=-790(LC 10), 11=-271(LC 11), 14=-274(LC 8), 15=-222(LC 12), 16=-174(LC 12), 17=-639(LC 12),

18=-442(LC 12), 13=-288(LC 11)

Max Grav All reactions 250 lb or less at joint(s) 11, 12, 16, 13 except 1=1245(LC 12), 14=366(LC 11), 15=303(LC 19), 17=529(LC 10), 18=339(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-1814/1551, 2-3=-1442/1257, 3-4=-572/512, 4-5=-315/283, 5-6=-600/565 **BOT CHORD** 13-14=-418/474, 12-13=-329/353, 11-12=-397/416

WEBS 8-13=-281/336, 6-15=-423/435, 5-16=-279/294, 3-17=-835/925, 2-18=-442/463

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; 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) Provide adequate drainage to prevent water ponding.
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 1=790, 11=271, 14=274, 15=222, 16=174, 17=639, 18=442, 13=288.
- 7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 11, 12, 13.
- 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 Roeser/1483 Winterset 2720415 LG6 **GABLE** Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Inc

Valley Center, KS - 67147,

Structural wood sheathing directly applied or 3-0-10 oc purlins,

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

except end verticals.

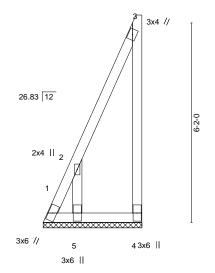
DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

RELEASE FOR CONSTRUCTION

AS NOTED FOR PLAN REVIEW

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09/3448/2021 Page 1 ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-RDHSDouMwLGL9suBV2uoRVVAARaurPV/LOFFBrg1zPBr 2-10-7 2-10-7

Scale = 1:35.6



LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.36	DEFL.         in (loc)         l/defl         L/d           Vert(LL)         n/a         -         n/a         999	PLATES GRIP MT20 197/144
TCDL 10.0 BCLL 0.0 BCDL 10.0	Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	BC 0.02 WB 0.10 Matrix-P	Vert(CT) n/a - n/a 999 Horz(CT) 0.00 4 n/a n/a	Weight: 20 lb FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

**OTHERS** 

2x4 SPF No.2 TOP CHORD

Builders FirstSource (Valley Center),

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

REACTIONS. (size) 1=3-0-10, 4=3-0-10, 5=3-0-10

2x4 SPF No.2

Max Horz 1=234(LC 9)

Max Uplift 1=-341(LC 10), 4=-208(LC 11), 5=-415(LC 12) Max Grav 1=407(LC 9), 4=202(LC 8), 5=323(LC 19)

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

1-2=-941/791, 2-3=-424/391, 3-4=-392/406 TOP CHORD

WEBS 2-5=-472/557

# NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; 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) 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) except (jt=lb) 1=341, 4=208, 5=415,
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Roeser/1483 Winterset AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVIGES7 2720415 PB01 **GABLE** LEE'S SUMMIT, MISSOURI Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Ap. 19.09/3449.2031—Rags 1 ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-vQrqQ8v\_hfOCm01 N2mP1 i5Drtw8WeVvyk, r.z Bo Builders FirstSource (Valley Center), Valley Center, KS - 67147, 6-11-12

4x4 =

Scale: 1/2"=1

12.00 12 2x4 || 2x4 || 3 3-7-0 7 6 ]-5-O -0-D-4 10 2x4 = 2x4 = 2x4 || 2x4 || 2x4 || 6-11-12 SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) Plate Grip DOL TC Vert(LL) 197/144 1.15 0.05 n/a n/a 999 MT20 Lumber DOL 1.15 ВС 0.02 Vert(CT) n/a n/a 999

0.00

6

n/a

n/a

Weight: 25 lb

FT = 20%

3-4-12

LUMBER-**BRACING-**

YES

TOP CHORD TOP CHORD 2x4 SPF No 2 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

Horz(CT)

REACTIONS. All bearings 6-11-12

Max Horz 1=87(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 2, 6 except 10=-103(LC 12), 8=-101(LC 13)

WB

Matrix-P

0.04

Max Grav All reactions 250 lb or less at joint(s) 1, 7, 2, 6, 9, 10, 8

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

# NOTES-

LOADING (psf)

**TCLL** 

TCDL

**BCLL** 

BCDL

25.0

10.0

0.0

10.0

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

Rep Stress Incr

Code IRC2018/TPI2014

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-2-14 to 3-2-14, Interior(1) 3-2-14 to 3-7-0, Exterior(2E) 3-7-0 to 6-10-4 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) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 1-4-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

  7) Bearing at joint(s) 1, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 2, 6 except (jt=lb) 10=103, 8=101.
- 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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.





Job Truss Truss Type Qty Roeser/1483 Winterset 2720415 PB02 Piggyback 2 Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

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

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19:09/34-50/2021 Page 1 ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-OcPCeUwcSzW3O92ZcTwGWwxXEFVFK7e Z/Hz/z Bo

3-7-0

Scale: 1/2"=1 4x4 =

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

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

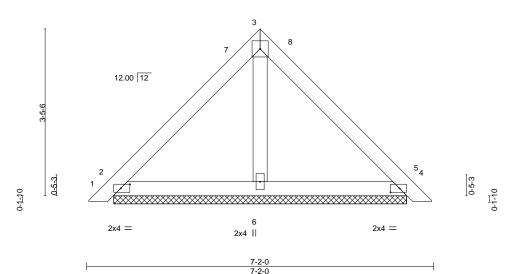


Plate Offsets (X,Y)--[2:0-2-4,0-1-0], [4:0-2-4,0-1-0] SPACING-**PLATES** GRIP LOADING (psf) CSI. DEFL. in (loc) I/defI L/d 25.0 Plate Grip DOL TCLL 1.15 TC 0.26 Vert(LL) 0.00 5 120 MT20 197/144 n/r TCDL 10.0 Lumber DOL 1.15 ВС 0.08 Vert(CT) 0.01 5 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.03 Horz(CT) 0.00 n/a n/a **BCDL** Code IRC2018/TPI2014 FT = 20% 10.0 Matrix-P Weight: 21 lb

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

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

(size) 2=6-0-10, 4=6-0-10, 6=6-0-10

Max Horz 2=-87(LC 10)

Max Uplift 2=-48(LC 13), 4=-53(LC 13)

Max Grav 2=189(LC 1), 4=189(LC 1), 6=211(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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-2-14 to 3-2-14, Interior(1) 3-2-14 to 3-7-0, Exterior(2R) 3-7-0 to 6-7-3, Interior(1) 6-7-3 to 6-11-2 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) 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) 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.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.





Job Truss Truss Type Qty Roeser/1483 Winterset 2720415 PB03 Piggyback 8 Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVIGES9 LEE'S SUMMIT. MISSOURI

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19.09/3+62.2021 Rage at ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-K?Wz3Axs\_am\_dTBykukkkli haxzjedx tti Oxoz eB n

3-3-8

6-10-8

Scale: 1/2"=1 4x4 =

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

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

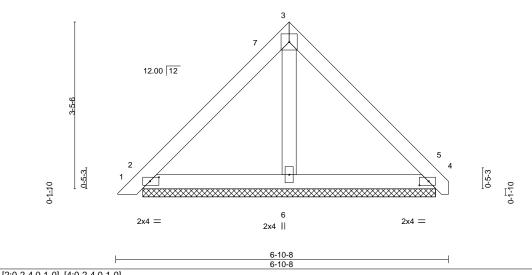


Plate Offsets (A, Y) [2:0-2-4,0-1-0], [4:0-2-4,0-1-0]								
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP					
TCLL 25.0	Plate Grip DOL 1.15	TC 0.26	Vert(LL) 0.00 5 n/r 120 MT20 197/144					
TCDL 10.0	Lumber DOL 1.15	BC 0.08	Vert(CT) 0.00 5 n/r 120					
BCLL 0.0	Rep Stress Incr YES	WB 0.03	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-

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

REACTIONS. (size) 2=6-0-10, 4=6-0-10, 6=6-0-10

Max Horz 2=86(LC 9)

Max Uplift 2=-48(LC 13), 4=-49(LC 13)

Max Grav 2=190(LC 1), 4=169(LC 1), 6=211(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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-2-14 to 3-2-14, Interior(1) 3-2-14 to 3-7-0, Exterior(2E) 3-7-0 to 6-9-10 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) 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) 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.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.





Job Truss Truss Type Qty Roeser/1483 Winterset 2720415 PB04 Piggyback Job Reference (optional)

Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVIGESO

LEE'S SUMMIT. MISSOURI

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Ap., 19,09/3464,2031-Rage at ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-GNejUsz7VB0VtnL rJ?Cgmc0wsc0BpWEntFiVgdPHI

6-10-8

Scale = 1:24.5

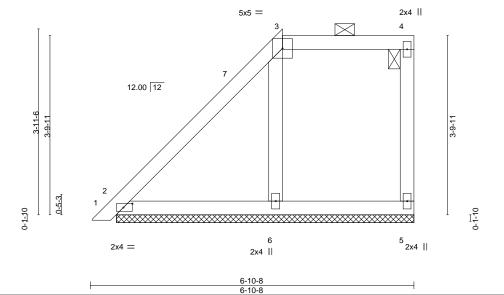


Plate Off	sets (X,Y)	[2:0-2-4,0-1-0]		
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.34	Vert(LL) 0.00 1 n/r 120 MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.08	Vert(CT) 0.00 1 n/r 120
BCLL	0.0	Rep Stress Incr YES	WB 0.07	Horz(CT) 0.00 5 n/a n/a
BCDL	10.0	Code IRC2018/TPI2014	Matrix-P	Weight: 24 lb FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

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

Builders FirstSource (Valley Center),

WEBS 2x4 SPF No.2

REACTIONS. (size) 5=6-3-13, 2=6-3-13, 6=6-3-13

Max Horz 2=144(LC 9)

Max Uplift 5=-31(LC 8), 2=-9(LC 8), 6=-101(LC 9) Max Grav 5=112(LC 1), 2=177(LC 20), 6=301(LC 1)

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

TOP CHORD 2-3=-286/171 WEBS 3-6=-249/371

# 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-2-14 to 3-2-14, Interior(1) 3-2-14 to 4-1-0, Exterior(2E) 4-1-0 to 6-8-12 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
- 3) Provide adequate drainage to prevent water ponding.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2 except (jt=lb) 6=101.
- 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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building
- 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 or 6-0-0 oc purlins,

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

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



Job Truss Truss Type Qty Roeser/1483 Winterset 2720415 PB05 Piggyback Job Reference (optional)

Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES1

> LEE'S SUMMIT. MISSOURI 19 09 34.54 2021 Rage

8.430 s Mar 22 2021 MiTek Industries, Ind. Mon Am 19 09/3454/2021 P. ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-GNejUsz7VB0Vtr LLrJ?C mp9 s/tBeGE mpive

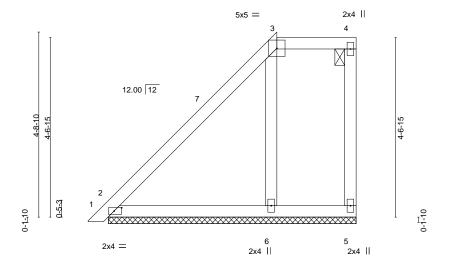
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

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

6-10-8

Scale = 1:29.4



6-10-8

Plate Of	fsets (X,Y)	[2:0-2-4,0-1-0]										
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	0.53	Vert(LL)	0.00	` í	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	0.01	1	n/r	120		
BCLL	0.0	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matr	ix-P						Weight: 26 lb	FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

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

Builders FirstSource (Valley Center),

WEBS 2x4 SPF No.2

REACTIONS. (size) 5=6-3-13, 2=6-3-13, 6=6-3-13

Max Horz 2=174(LC 9)

Max Uplift 5=-26(LC 8), 2=-10(LC 8), 6=-106(LC 9) Max Grav 5=70(LC 1), 2=215(LC 20), 6=314(LC 19)

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

TOP CHORD 2-3=-343/204 WEBS 3-6=-270/416

# 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-2-14 to 3-2-14, Interior(1) 3-2-14 to 4-10-4, Exterior(2E) 4-10-4 to 6-8-12 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
- 3) Provide adequate drainage to prevent water ponding.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2 except (jt=lb) 6=106
- 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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building
- 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 Roeser/1483 Winterset 2720415 PB06 Piggyback Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

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

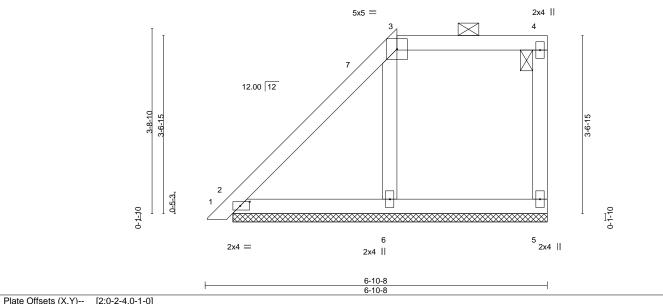
8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09 34 55 2021 Page 1 ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-kZC5hC\_IGV8LUxwXP1WRD\_KJNFywzoN? R2W/zPBk 6-10-8

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

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

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

Scale = 1:23.1



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.29 V	/ert(LL) 0.00	` <u>í</u>	n/r	120	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.08 V	/ert(CT) 0.00	1	n/r	120		
BCLL 0.0	Rep Stress Incr YES	WB 0.06	Horz(CT) 0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P					Weight: 24 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) 5=6-3-13, 2=6-3-13, 6=6-3-13 Max Horz 2=135(LC 9)

Max Uplift 5=-33(LC 8), 2=-9(LC 8), 6=-98(LC 9) Max Grav 5=123(LC 1), 2=165(LC 20), 6=301(LC 1)

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

TOP CHORD 2-3=-269/161 WEBS 3-6=-243/358

# 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-2-14 to 3-2-14, Interior(1) 3-2-14 to 3-10-4, Exterior(2E) 3-10-4 to 6-8-12 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
- 3) Provide adequate drainage to prevent water ponding.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2, 6.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 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 Roeser/1483 Winterset 2720415 PB07 Piggyback Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Inc Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES3 LEE'S SUMMIT, MISSOURI

Scale = 1:17.2

8.430 s Mar 22 2021 MiTek Industries, Ind. Mon Apr 19 09/34-56/2021 D:ja0L6Z4CEmlyeqhDgBS87bzZkjf-CmmUvY\_N1pHC64Vjzk1gmityY\_f/51/2CXlfuBs/22 19 09 34.56 2021 Rage

Structural wood sheathing directly applied or 6-10-8 oc purlins,

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

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

6-10-8

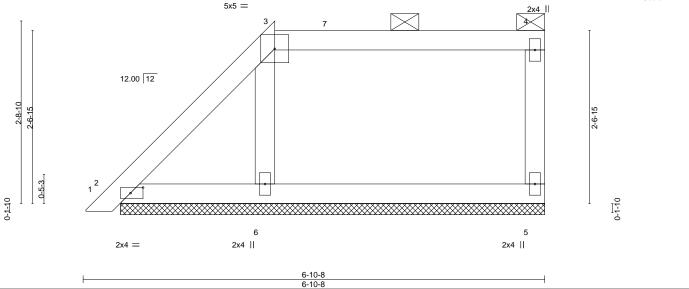


Plate Offsets (X,Y)--[2:0-2-4,0-1-0] SPACING-**PLATES** GRIP LOADING (psf) CSI DEFL. in (loc) I/defI L/d 25.0 TCLL Plate Grip DOL 1.15 TC 0.29 Vert(LL) 0.00 120 MT20 197/144 n/r TCDL 10.0 Lumber DOL 1.15 BC 0.11 Vert(CT) 0.00 n/r 120 BCLL 0.0 Rep Stress Incr YES WB 0.05 Horz(CT) 0.00 5 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Matrix-P Weight: 21 lb

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

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

REACTIONS. (size) 5=6-3-13, 2=6-3-13, 6=6-3-13

Max Horz 2=95(LC 9)

Max Uplift 5=-42(LC 8), 2=-9(LC 8), 6=-86(LC 9) Max Grav 5=168(LC 1), 2=107(LC 20), 6=312(LC 1)

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

WEBS 3-6=-229/296

### 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=25ft; 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) Provide adequate drainage to prevent water ponding.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2, 6.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building
- 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 Roeser/1483 Winterset 2720415 PB08 Piggyback Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Inc 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09/34-57 2021 Page ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-gyKs6t??o6P3kE4\ WRYVIO QkmBebQxxg\$8/992?PF Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES4 LEE'S SUMMIT. MISSOURI

2-0-15 3-8-3

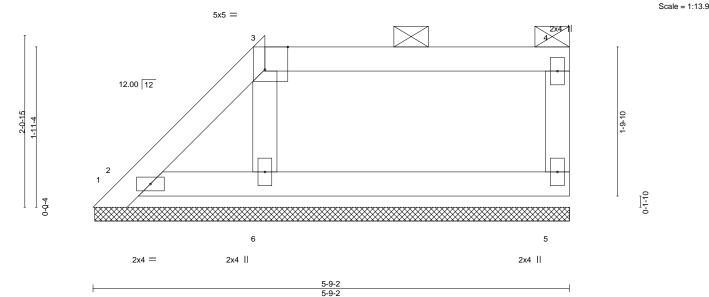


Plate Off	sets (X,Y)	[3:0-3-5,Eage]			
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.24	Vert(LL) n/a - n/a 999	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.08	Vert(CT) n/a - n/a 999	
BCLL	0.0	Rep Stress Incr YES	WB 0.02	Horz(CT) -0.00 5 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-P		Weight: 16 lb FT = 20%

LUMBER-BRACING-

2x4 SPF No.2 TOP CHORD TOP CHORD Structural wood sheathing directly applied or 5-9-2 oc purlins, **BOT CHORD** 2x4 SPF No.2 except end verticals, and 2-0-0 oc purlins: 3-4. **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 5-8-14.

Max Horz 1=66(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 6 except 2=-102(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 2, 6

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

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; 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) Provide adequate drainage to prevent water ponding.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 6 except (it=lb) 2=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.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 20,2021



Job Truss Truss Type Qty Roeser/1483 Winterset 2720415 PB09 Piggyback Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

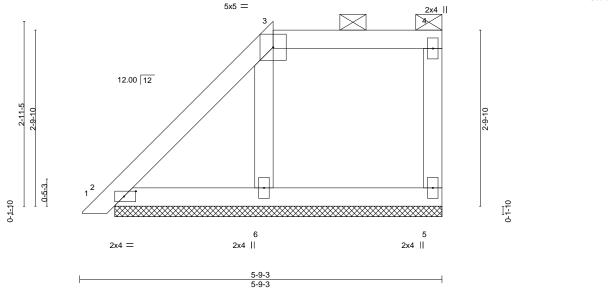
RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES5

LEE'S SUMMIT. MISSOURI

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Am 19109/3457/2021 Rag ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-gyKs6t??o6P3kE4 WRYvIDC Im3t/QuRg 88/99/? P 19 09 34.57 2021 Rage

5-9-3 5-9-3

Scale = 1:18.3



LOADING (ps	sf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL 25	5.Ó	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	0.00	` <u>í</u>	n/r	120	MT20	197/144
TCDL 10	0.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	0.00	1	n/r	120		
BCLL 0	0.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10	0.0	Code IRC2018/TF	PI2014	Matri	x-P						Weight: 19 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

Plate Offsets (X Y)-- [2:0-2-4 0-1-0]

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

Max Horz 2=104(LC 9)

Max Uplift 5=-28(LC 8), 2=-8(LC 8), 6=-80(LC 9) Max Grav 5=110(LC 1), 2=127(LC 20), 6=249(LC 1)

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

WEBS 3-6=-202/305

### 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=25ft; 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) Provide adequate drainage to prevent water ponding.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2, 6.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building
- 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 or 5-9-3 oc purlins,

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

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



Job Truss Truss Type Qty Roeser/1483 Winterset 2720415 PB10 **GABLE** Job Reference (optional)

Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES6 LEE'S SUMMIT, MISSOURI

. Mon Apr. 19 09/3458 2021 Rage 1 \_Of64938rby\D7\_\_\_\_\_\_/xichggi7kz PB b

8.430 s Mar 22 2021 MiTek Industries, Industries ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-98uEJD0dZQXw

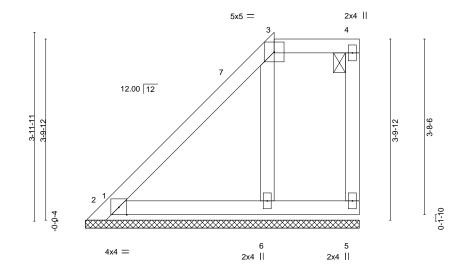
Structural wood sheathing directly applied or 5-9-3 oc purlins,

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

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

5-9-3

Scale = 1:24.2



000							
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP			
TCLL 25.0	Plate Grip DOL 1.15	TC 0.26	Vert(LL) 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 0.05	Horz(CT) -0.00 5 n/a n/a				
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P		Weight: 21 lb $FT = 20\%$			

BOT CHORD

LUMBER-BRACING-TOP CHORD

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

Builders FirstSource (Valley Center),

2x4 SPF No.2 REACTIONS. All bearings 5-9-3.

Max Horz 1=141(LC 9) Max Uplift All uplift 100 lb or less at joint(s) 5, 6 except 1=-356(LC 19), 2=-371(LC 12) Max Grav All reactions 250 lb or less at joint(s) 5, 6 except 1=339(LC 12), 2=522(LC 19)

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

TOP CHORD 1-2=-837/433 WFRS 3-6=-197/298

### 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-2-14 to 3-2-14, Interior(1) 3-2-14 to 3-11-11, Exterior(2E) 3-11-11 to 5-7-7 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) 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) Provide adequate drainage to prevent water ponding.
- 5) Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Bearing at joint(s) 1, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6 except (jt=lb) 1=356, 2=371.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 12) 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 Roeser/1483 Winterset 2720415 PB11 **GABLE** Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVIGES7 LEE'S SUMMIT, MISSOURI

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Am 19/09/34-59/2021 Rage / ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-dLScXZ1FKkfnzYElesaNlip/6, tt./sz/3zv/S/P/dz/ElesaNlip/6

197/144

FT = 20%

MT20

Structural wood sheathing directly applied or 5-9-3 oc purlins,

Weight: 19 lb

999

999

n/a

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

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

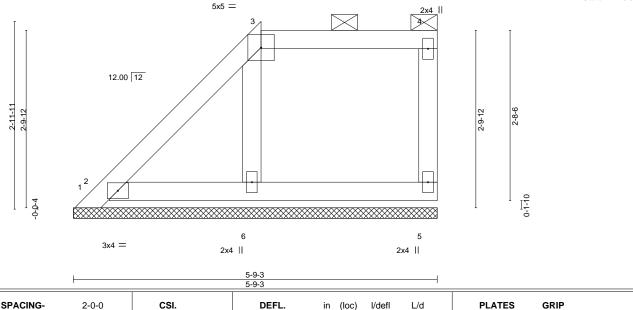
n/a

n/a

n/a

5

Scale = 1:18.3



n/a

n/a

-0.00

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

LOADING (psf)

**TCLL** 

TCDL

**BCLL** 

BCDL

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

25.0

10.0

0.0

10.0

**WEBS** 2x4 SPF No.2

REACTIONS. All bearings 5-9-3.

Max Horz 1=101(LC 9) Max Uplift All uplift 100 lb or less at joint(s) 5, 6 except 1=-177(LC 19), 2=-202(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 6 except 2=295(LC 19)

1.15

1.15

YES

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

TOP CHORD 1-2=-516/270 WFRS 3-6=-179/258

### NOTES-

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

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; 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) 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.

TC

ВС

WB

Matrix-P

0.13

0.06

0.05

- 4) Provide adequate drainage to prevent water ponding.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Bearing at joint(s) 1, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6 except (jt=lb) 1=177, 2=202
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer
- 12) 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 Roeser/1483 Winterset 2720415 PB12 **GABLE** Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES8 LEF'S SUMMIT, MISSOURI

Scale = 1:13.0

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09/35-00/2071-Rags ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-5X?\_kv1u51nebpUCa6cv12F GgZz/R616)ppK.PH

5x5 = 12.00 12 1-9-12 1-9-12 2 5 2x4 || 2x4 || 2x4 =

DEFL.

BRACING-

TOP CHORD

BOT CHORD

I/defI

(loc)

L/d

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

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

25.0 Plate Grip DOL Vert(LL) 197/144 **TCLL** 1.15 TC 0.25 n/a n/a 999 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.10 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.04 Horz(CT) -0.00 5 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-P Weight: 16 lb

CSI.

FT = 20%

Structural wood sheathing directly applied or 5-9-3 oc purlins,

**PLATES** 

GRIP

LUMBER-

LOADING (psf)

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

REACTIONS. All bearings 5-9-3 Max Horz 1=61(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 2, 6

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 2 except 6=264(LC 1)

2-0-0

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

TOP CHORD 1-2=-264/140

### NOTES-

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

SPACING-

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; 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) 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) Provide adequate drainage to prevent water ponding.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 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) 1, 5, 2, 6.
- 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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer
- 11) 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 Roeser/1483 Winterset 2720415 **PB13 GABLE** Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

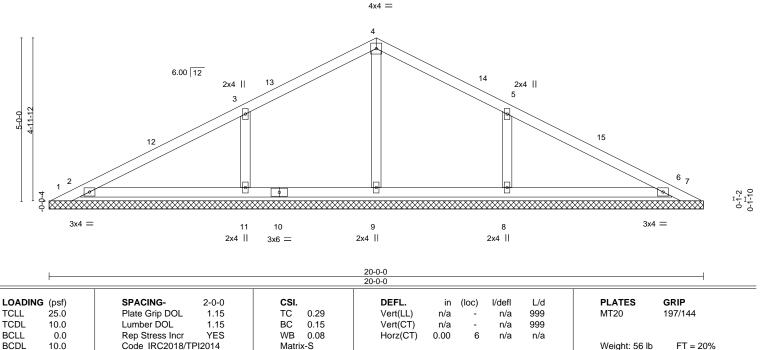
RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES9 LEE'S SUMMIT, MISSOURI

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Am 19 09/35 02 2021 Page 1 ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-1w7l9b38df1Mq?ytJ?84? 57kk-k/3k/Pcqe/vGzzPBd

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

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

Scale = 1:35.2



TOP CHORD

BOT CHORD

LUMBER-**BRACING-**

10-0-0

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

2x4 SPF No.2

All bearings 20-0-0. Max Horz 1=85(LC 16)

Max Uplift All uplift 100 lb or less at joint(s) except 1=-233(LC 1), 7=-233(LC 1), 2=-180(LC 12), 11=-152(LC

12), 6=-160(LC 13), 8=-151(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 2=516(LC 1), 9=277(LC 1), 11=450(LC 25), 6=516(LC

1), 8=450(LC 26)

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

WEBS 3-11=-346/204, 5-8=-346/204

### NOTES-

REACTIONS.

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-11 to 3-4-11, Interior(1) 3-4-11 to 10-0-0, Exterior(2R) 10-0-0 to 13-0-0 , Interior(1) 13-0-0 to 19-7-5 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 oc.
- 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 233 lb uplift at joint 1, 233 lb uplift at joint 7, 180 lb uplift at joint 2, 152 lb uplift at joint 11, 160 lb uplift at joint 6 and 151 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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.





RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Roeser/1483 Winterset AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICESO 2720415 V01 Valley LEE'S SUMMIT. MISSOURI Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Inc 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Am 19.09/35-03/2021 Rags 1 ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-V6h7Nx4mOy9D 59X3tif...f/j.m...Uh2d8d2r4NTd1zPElig Builders FirstSource (Valley Center), Valley Center, KS - 67147,

16-4-3

4x4 = 6.00 12 3x6 = 16 3x4 🖊 14 13 15 12 10 11 4x6 =

in (loc) I/defl L/d	PLATES GRIP
n/a - n/a 999	MT20 197/144
n/a - n/a 999	
-0.00 9 n/a n/a	
	Weight: 89 lb FT = 20%
	n/a - n/a 999 n/a - n/a 999

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

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

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

7-10-0

Scale = 1:51.0

REACTIONS. All bearings 24-1-11. Max Horz 1=217(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 9, 1 except 12=-135(LC 12), 13=-117(LC 12), 15=-134(LC 12),

10=-140(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 9, 1 except 11=322(LC 1), 12=386(LC 25), 13=348(LC 1),

15=392(LC 25), 10=399(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. **WEBS** 5-12=-305/168, 4-13=-272/152, 2-15=-298/164, 7-10=-316/178

- 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-7-9 to 3-7-9. Interior(1) 3-7-9 to 16-4-2, Exterior(2R) 16-4-2 to 19-4-2, Interior(1) 19-4-2 to 24-0-6 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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) 9, 1 except (jt=lb) 12=135, 13=117, 15=134, 10=140
- 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.



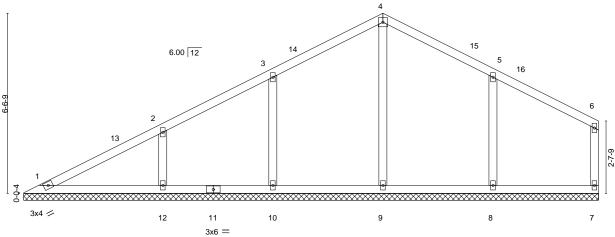


Job Truss Truss Type Qty Roeser/1483 Winterset 2720415 V02 Valley Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09/35/03/2021 Page 1 ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-V6h7Nx4mOy9Ds9X3tifJ (fgmt UghzAC2 r4N7212Pt) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

13-1-3

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVIGES1 LEE'S SUMMIT. MISSOURI

4x4 = Scale = 1:41.9 4



	20-11-3						
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.25 BC 0.13 WB 0.16 Matrix-S	DEFL.         in (loc)         l/defl         L/d           Vert(LL)         n/a         - n/a         999           Vert(CT)         n/a         - n/a         999           Horz(CT)         -0.00         7         n/a         n/a	<b>PLATES GRIP</b> MT20 197/144  Weight: 71 lb FT = 20%			

BRACING-LUMBER-

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

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

7-10-0

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

REACTIONS. All bearings 20-10-11.

Max Horz 1=149(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 10=-127(LC 12), 12=-147(LC 12), 8=-140(LC 13) Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 9=321(LC 1), 10=361(LC 25), 12=435(LC 1), 8=396(LC 26)

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

3-10=-289/161, 2-12=-328/179, 5-8=-315/176

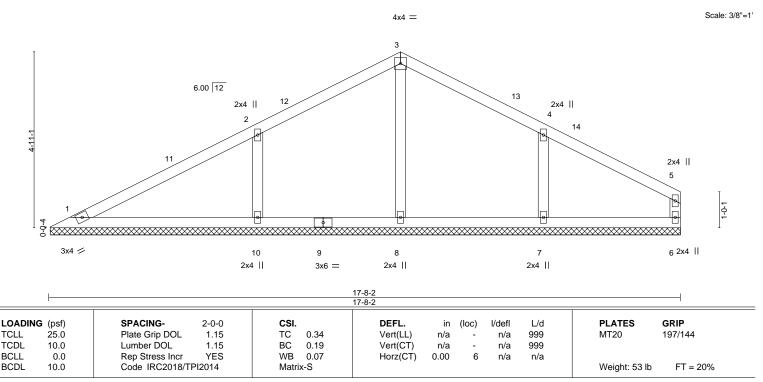
### NOTES-

- 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 13-1-3, Exterior(2R) 13-1-3 to 16-1-2, Interior(1) 16-1-2 to 20-9-6 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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 except (jt=lb) 10=127, 12=147, 8=140,
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Roeser/1483 Winterset AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES2 2720415 V03 Valley LEE'S SUMMIT, MISSOURI Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19,09/35/04/2021 Rage 1 ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-zIFVaH4O9GH43J6GRQAY4ttVvhu05xewik/1122 Bb Builders FirstSource (Valley Center), Valley Center, KS - 67147,



LUMBER-BRACING-

9-10-2

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

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

7-10-0

except end verticals.

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

REACTIONS. All bearings 17-7-10.

(lb) -Max Horz 1=84(LC 16)

Max Uplift All uplift 100 lb or less at joint(s) 1, 6 except 10=-177(LC 12), 7=-145(LC 13) Max Grav All reactions 250 lb or less at joint(s) 1, 6, 8 except 10=512(LC 25), 7=402(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-10=-390/227, 4-7=-315/194 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 9-10-2, Exterior(2R) 9-10-2 to 12-10-2, Interior(1) 12-10-2 to 17-6-6 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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, 6 except (jt=lb) 10=177, 7=145.
- 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.



April 20,2021





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

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



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Roeser/1483 Winterset AS NOTED FOR PLAN REVIEW 2720415 V04 Valley Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Am 19 09/35/05/2021 Page 1 ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-RVptnc50waPxh hS\_7hr 147cHjkd26ZsIQsa2/25Ba Builders FirstSource (Valley Center), Valley Center, KS - 67147,

4x4 =

DEVELOPMENT SERVICES3 LEE'S SUMMIT, MISSOURI

197/144

FT = 20%

MT20

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

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

Weight: 35 lb

6-7-2

999

999

n/a

n/a

n/a

n/a

5

Scale = 1:22.3

3 6.00 12 2x4 || <sub>4</sub>2x4 || 3x4 / 3x4 > 2x4 || 2x4 || 2x4 || LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc)

Vert(LL)

Vert(CT)

Horz(CT)

BOT CHORD

n/a

n/a

0.00

LUMBER-**BRACING-**TOP CHORD

1.15

1.15

YES

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

25.0

10.0

0.0

10.0

All bearings 13-1-5. Max Horz 1=53(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 8=-121(LC 12), 6=-121(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=322(LC 1), 8=338(LC 25), 6=338(LC 26)

TC

ВС

WB

Matrix-S

0.17

0.10

0.04

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

2-8=-273/202, 4-6=-273/203 WEBS

### NOTES-

REACTIONS.

TCLL

**TCDL** 

**BCLL** 

BCDL

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

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 6-7-2, Exterior(2R) 6-7-2 to 9-7-2, Interior(1) 9-7-2 to 12-6-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7 except (jt=lb) 8=121, 6=121,
- 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.

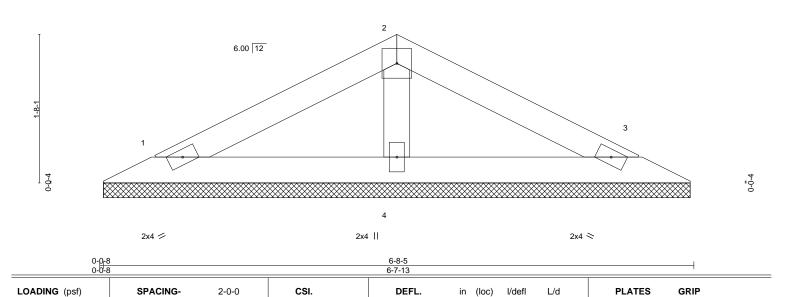




RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Roeser/1483 Winterset AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVI©€\$4 Valley 2720415 V05 LEE'S SUMMIT. MISSOURI Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09/35/06/2021 Page 1 ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-whNG?y6ehtXoJcGeYqDLA IAnkJ/2Z7?) 2/88\_22B Z Builders FirstSource (Valley Center), Valley Center, KS - 67147,

4x4 =

Scale = 1:13.0



Vert(LL)

Vert(CT)

Horz(CT)

**BRACING-**TOP CHORD

BOT CHORD

n/a

n/a

0.00

999

999

n/a

n/a

n/a

n/a

3

LUMBER-

REACTIONS.

TCLL

**TCDL** 

**BCLL** 

BCDL

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

(size)

25.0

10.0

0.0

10.0

Max Horz 1=24(LC 12)

Max Uplift 1=-32(LC 12), 3=-37(LC 13), 4=-17(LC 12) Max Grav 1=125(LC 1), 3=125(LC 1), 4=240(LC 1)

1=6-7-5, 3=6-7-5, 4=6-7-5

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

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=25ft; 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.

1.15

1.15

YES

TC

ВС

WB

Matrix-P

0.13

0.06

0.02

- 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.



197/144

FT = 20%

MT20

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

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

Weight: 16 lb



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Roeser/1483 Winterset AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES5 2720415 V06 Valley LEE'S SUMMIT. MISSOURI Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr. 19 09/35/07/2021 Page / ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-OtweCl7HSBffwhrq6YkFtV T85/Dyw8rhithy 22PB Builders FirstSource (Valley Center), Valley Center, KS - 67147,

7-8-2

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

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

Scale = 1:25.7

4x4 = 3 6.00 12 10 2x4 || 2x4 || 2 8 7 6 3x4 / 3x4 ≥ 2x4 || 2x4 || 2x4 || 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) 999 197/144 **TCLL** 0.18 n/a n/a MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.09 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.05 Horz(CT) 0.00 5 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-S Weight: 42 lb FT = 20%

> **BRACING-**TOP CHORD

BOT CHORD

LUMBER-

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

**OTHERS** 2x4 SPF No.2

REACTIONS. All bearings 15-3-4

Max Horz 1=62(LC 16)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-133(LC 12), 6=-133(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=311(LC 1), 8=377(LC 25), 6=377(LC 26)

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

2-8=-296/195, 4-6=-296/195 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-7-9 to 3-8-2, Interior(1) 3-8-2 to 7-8-2, Exterior(2R) 7-8-2 to 10-8-2, Interior(1) 10-8-2 to 14-8-11 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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 except (jt=lb) 8=133, 6=133,
- 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.





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



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Roeser/1483 Winterset 2720415 V07 Valley Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr. 19.09(36:08/2021) Page : ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-s4U0Qe8vCVnVYwQ1pFFUFjl (d)VpTf\_Xl\_llsEUsz BB Builders FirstSource (Valley Center), Valley Center, KS - 67147,

10-11-2

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVIGES6 LEE'S SUMMIT. MISSOURI

Scale = 1:35.3

7-7-2

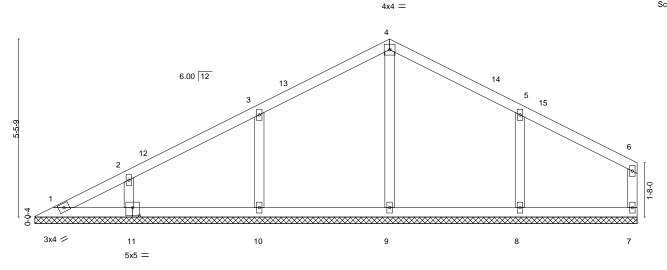


Plate Offsets (X,Y)-- [11:0-2-8,0-3-0]

		//-			
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 0.21	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 0.11	Horz(CT) 0.00 7 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S		Weight: 59 lb FT = 20%

LUMBER-BRACING-

2x4 SPF No.2 TOP CHORD 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 18-5-12.

Max Horz 1=107(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 11 except 10=-139(LC 12), 8=-138(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 9=309(LC 1), 10=392(LC 25), 11=300(LC 1),

8=385(LC 26)

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

3-10=-312/183, 5-8=-305/180 WFBS

### 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 10-11-2, Exterior(2R) 10-11-2 to 13-11-2 , Interior(1) 13-11-2 to 18-4-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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, 11 except (jt=lb) 10=139, 8=138.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





Job Truss Truss Type Qty Roeser/1483 Winterset 2720415 V08 Valley Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVIGES7 LEE'S SUMMIT. MISSOURI

Scale = 1:44.8

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09/35-09-2021 Page 1 ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-KG2Od\_8XzovMA4?DDzmjn vy IQ/iy/CzeRDpg60zzfBJV

14-2-2

4 6.00 12 5 16 3x4 🖊 11 10 8 3x6 =

	<u>'</u>	21-9-4	<u>'</u>
LOADING (psf)	SPACING- 2-0-0	CSI.         DEFL.         in (loc)         l/defl           TC 0.38         Vert(LL)         n/a         - n/a	L/d <b>PLATES GRIP</b>
TCLL 25.0	Plate Grip DOL 1.15		999 MT20 197/144
TCDL 10.0	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.21   Vert(CT) n/a - n/a	999
BCLL 0.0		WB 0.20   Horz(CT) -0.00 7 n/a	n/a
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Weight: 76 lb FT = 20%

21-9-4

LUMBER-BRACING-

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

7-7-2

except end verticals.

4x4 =

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

REACTIONS. All bearings 21-8-12.

(lb) -Max Horz 1=175(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 10=-116(LC 12), 12=-174(LC 12), 8=-136(LC 13) Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 9=337(LC 1), 10=330(LC 25), 12=516(LC 1),

8=385(LC 26)

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

WEBS 4-9=-252/29, 3-10=-267/149, 2-12=-386/210, 5-8=-306/172

### 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 14-2-2, Exterior(2R) 14-2-2 to 17-2-2, Interior(1) 17-2-2 to 21-7-8 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 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 except (jt=lb) 10=116. 12=174. 8=136.
- 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 Roeser/1483 Winterset 2720415 V09 Valley Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES8 LEE'S SUMMIT. MISSOURI

Scale = 1:53.9

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09/35/10/2021 Page 1 ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-oScmrK99k61DnEaPngHyK8Synl312K0bsqaLyzzBV

17-5-2 17-5-2

4x4 =

6 6.00 12 18 3x6 / 16 3x4 / 13 15 14 12 11 10 9 3x6 =

25-0-4 25-0-4						
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 0.29 BC 0.15 WB 0.22 Matrix-S	DEFL.         in (loc)         l/defl         L/d           Vert(LL)         n/a         -         n/a         999           Vert(CT)         n/a         -         n/a         999           Horz(CT)         -0.00         9         n/a         n/a	PLATES         GRIP           MT20         197/144           Weight: 95 lb         FT = 20%		

BRACING-LUMBER-

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

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

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. WEBS 1 Row at midpt

All bearings 24-11-12.

REACTIONS. Max Horz 1=243(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 9, 1, 11 except 12=-137(LC 12), 13=-109(LC 12), 15=-158(LC 12),

10=-136(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 9, 1 except 11=326(LC 1), 12=392(LC 25), 13=324(LC 1),

15=464(LC 25), 10=388(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WFBS 5-12=-309/170, 4-13=-254/143, 2-15=-351/192, 7-10=-308/175

### 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 17-5-2, Exterior(2R) 17-5-2 to 20-5-2, Interior(1) 20-5-2 to 24-10-8 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
- 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) 9, 1, 11 except (jt=lb) 12=137, 13=109, 15=158, 10=136.
- 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.





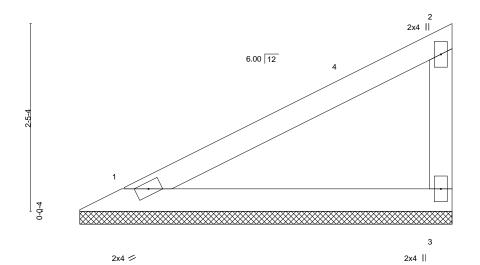
Job Truss Truss Type Qty Roeser/1483 Winterset 2720415 V10 Valley Job Reference (optional) 8.430 s Mar 22 2021 MiTek Industries, Inc Builders FirstSource (Valley Center), Valley Center, KS - 67147,

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

8.430 s Mar 22 2021 MiTek Industries, Ind. Mon Apr 19 09/35/11/2021 Page ID:ja0L6Z4CEmlyeqhDgBS87bzZkjf-GeA92gAnVQA4PQ 8cLOoEtt 6(ip/\_ogkkg ky/42/zHB) 19 09 35 1 1 2021 Page

4-10-8 4-10-8

Scale = 1:15.0



LOADING (psf)	SPACING- 2-0-0	CSI.	<b>DEFL.</b> in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.31	Vert(LL) n/a - n/a 999	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.17	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-

REACTIONS.

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

1=4-10-0, 3=4-10-0 (size) Max Horz 1=86(LC 9)

Max Uplift 1=-31(LC 12), 3=-53(LC 12) Max Grav 1=184(LC 1), 3=184(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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-Č Exterior(2E) 0-7-9 to 3-7-9, Interior(1) 3-7-9 to 4-8-12 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
- 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.

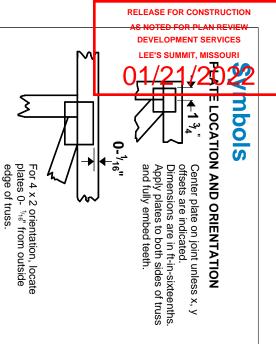


Structural wood sheathing directly applied or 4-10-8 oc purlins,

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

except end verticals.





\* Plate location details available in MiTek 20/20 software or upon request.

connector plates.

This symbol indicates the required direction of slots in

## PLATE SIZE

4 × 4

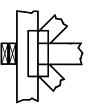
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

# 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.

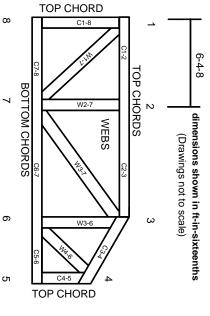
Min size shown is for crushing only

## 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.