

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT. MISSOURI 05/22/2024

N 41-

.

| RE: P240476-01 - Roof - Osage Lot 61 | MiTek, Inc. |
|--|--|
| Site Information: Project Customer: Clayton Properties Project Name | e: Basswoof Farmhouse 16023 Swingley Ridge Rd. Chesterfield, MO 63017 |
| Lot/Block: 61 Subdivisi | on: Osage 314.434.1200 |
| Model: | |
| Address: 3808 SW Ravengate PI | |
| City: Lee's Summit State: M | - |
| General Truss Engineering Criteria & Design Load | s (Individual Truss Design |
| Drawings Show Special Loading Conditions): | |
| Design Code: IRC2018/TPI2014 | Design Program: MiTek 20/20 8.6 |
| Wind Code: ASCE 7-16 Wind Speed: 115 mph | Design Method: MWFRS (Envelope)/C-C hybrid Wind ASCE 7-16 |
| Roof Load: 45.0 psf | Floor Load: N/A psf |
| Mean Roof Height (feet): 35 | Exposure Category: C |

| No. | Seal# | Truss Name | e Date |
|----------------|------------------------|------------|--------------------|
| 1 | l65475617 | B1 | 5/10/24 |
| | l65475618 | B2 | 5/10/24 |
| 3 | 165475619 | B3 | 5/10/24 |
| 5 | 165475620 | C1 | 5/10/24 |
| | 165475621 | C2 | 5/10/24 |
| 6 | 165475622 | Č3 | 5/10/24 |
| 7 | 165475623 | D1 | 5/10/24 |
| 23456789 | 165475624 | D2 | 5/10/24 |
| | 165475625 | D3 | 5/10/24 |
| 10 | 165475626 | E1 | 5/10/24 |
| | 165475627 | E2 | 5/10/24 |
| 11 12 13 | 165475628 165475629 | Ē3 E4 | 5/10/24 5/10/24 |
| 14 | 165475630 | Ē5 | 5/10/24 |
| 15 | l65475631 | R1 | 5/10/24 |
| 16 | l65475632 | V1 | 5/10/24 |
| 17 | l65475633 | V2 | 5/10/24 |
| 18 | l65475634 | V3 | 5/10/24 |
| 19 | l65475635 | V4 | 5/10/24 |
| 20 | l65475636 | V5 | 5/10/24 |
| 21 | l65475637 | V6 | 5/10/24 |
| 22 | l65475638 | V7 | 5/10/24 |
| 23 | 165475639 | V8 | 5/10/24 |

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Premier Building Supply (Springhill, KS)20300 W 207th Street.

Truss Design Engineer's Name: Sevier, Scott

My license renewal date for the state of Missouri is December 31, 2025.

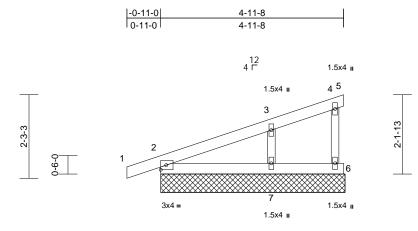
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which 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.

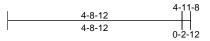


Sevier, Scott

| | | | | | | RELEASE FOR CONSTRUCTION |
|------------|-------|---------------------------|-----|------|-------------------------|-----------------------------------|
| Job | Truss | Truss Type | Qty | Plv | Roof - Osage Lot 61 | AS NOTED FOR PLAN REVIEW |
| 000 | 11033 | | Guy | 1 19 | 1001 - Osage Lot 01 | DEVELOPMENT SERVICES 165475617 |
| P240476-01 | B1 | Monopitch Supported Gable | 1 | 1 | Job Reference (optional | |
| | | | | | | |

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MITek Industries, Inc. Tu May 02664722/2024





Scale = 1:31.3

| 00010 = 1.01.0 | | | | | | | | | | | | | |
|---|--|--|--|---|---|---|---|---|----------------------|-----------------------------|--------------------------|---------------------------------|------------------------------------|
| Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL | (psf) 25.0 25.0 10.0 0.0 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 1-11-4 1.15 1.15 YES IRC201 | 8/TPI2014 | CSI TC BC WB Matrix-P | 0.16 0.07 0.08 | DEFL Vert(LL) Vert(CT) Horz(CT) | in n/a n/a 0.00 | (loc) - - 5 | l/defl n/a n/a n/a | L/d 999 999 n/a | PLATES MT20 Weight: 19 lb | GRIP 197/144 FT = 20% |
| FORCES TOP CHORD BOT CHORD WEBS NOTES | Max Horiz 2=84 (LC Max Uplift 2=-50 (LC (LC 12), 7 Max Grav 2=256 (LC (LC 23), 7 (lb) - Maximum Com Tension 1-2=0/12, 2-3=-157/ 4-6=-50/52 2-7=0/0, 6-7=0/0 3-7=-288/331 | cept end verticals. applied or 10-0-0 or 5=5-0-0, 6=5-0-0, 7= 12) (12), 5=-9 (LC 16), ((=-75 (LC 16) C 23), 5=18 (LC 23), (=349 (LC 23) (pression/Maximum 59, 3-4=-41/9, 4-5=- | c 6) 55-0-0 7) 8) 6=-13 9) 6=57 1(9/5, 1 ⁻¹ 12 | Plate DOL=1 DOL=1.15); Cs=1.00; Cti Unbalanced design. This truss ha load of 12.0 overhangs n Gable requir Gable studs This truss ha chord live loi All bearings capacity of 5 D) Provide mec bearing plate 5, 13 lb uplif uplift at joint Beveled plat surface with 2) This truss is International R802.10.2 a | snow loads have l as been designed f psf or 2.00 times f on-concurrent with es continuous bott spaced at 2-0-0 o as been designed f ad nonconcurrent are assumed to be 65 psi. thanical connectior e capable of withst t at joint 6, 50 lb up 7. e or shim required truss chord at join designed in accor Residential Code nd referenced star | (Lum DC t C; Fully been con for great lat roof I n other li tom choir c. for a 10. with any e SP No n (by oth ianding § plift at jo I to provit t(s) 2. dance w sections | DL=1.15 Plate Exp.; Ce=0.1 Insidered for the er of min roof bad of 25.0 p ve loads. I'd bearing. Dipsf bottom other live loa 2 crushing ers) of truss i D buplift at jo int 2 and 75 ll de full bearin ith the 2018 \$ R502.11.1 a | e 9; his flive sfon ads. to bint b g | | | | | |
| Vasd=91m Ke=1.00; (exterior zo | CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Corner(3E N) 4-1-0 to 4-11-8 zono | DL=6.0psf; h=35ft; d; MWFRS (envelop E) -0-11-0 to 4-1-0, | be) | OAD CASE(S) | Standard | | | | | | Å | STATE OF I | тм. |

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.

right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown;

 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 besign value for use only with with twit even connectors. This design is based only upon parameters shown, and is for an individual building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer. 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/TPI Quality Criteria, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)



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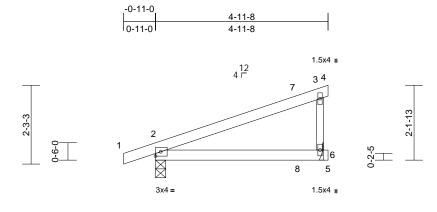
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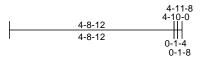
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| | | | | | | RELEASE FOR CONSTRUCTION |
|--------------------------------|---------------------------------------|------------|-----|-----|--|---|
| Job | Truss | Truss Type | Qty | Ply | Roof - Osage Lot 61 | AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165475618 |
| P240476-01 | B2 | Monopitch | 3 | 1 | Job Reference (optional | |
| Premier Building Supply (Sprin | ghill, KS), Spring Hills, KS - 66083, | | | | 5 2024 MiTek Industries, Inc. T B70Ha3NSaPanL8w3uITXbG | |

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. T u May (1) 2063 ID:O7VVk_L0RvxcNO62AgBqQ4ylfCg-RfC?PsB70Hq3NSgPqnL8w3uITXbG WrCDonve42ve f





Scale = 1:33.1

| Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL | (psf) 25.0 25.0 10.0 0.0 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 YES IRC201 | 8/TPI2014 | CSI TC BC WB Matrix-P | 0.62 0.48 0.00 | DEFL Vert(LL) Vert(CT) Horz(CT) | in 0.10 0.08 0.00 | (loc) 2-6 2-6 6 | l/defl >549 >651 n/a | L/d 240 180 n/a | PLATES MT20 Weight: 18 lb | GRIP 197/144 FT = 20% |
|---|--|--|--|--|---|---|---|----------------------------|--------------------------|-------------------------------|--------------------------|---------------------------------|------------------------------------|
| WEBS BRACING TOP CHORD BOT CHORD REACTIONS | 2x4 SP No.2 2x3 SPF No.2 2x3 SPF No.2 Structural wood she 5-0-0 oc purlins, exi Rigid ceiling directly bracing. (size) 2=0-3-8, 6 Max Horiz 2=87 (LC Max Uplift 2=-131 (L Max Grav 2=404 (LC | cept end verticals. applied or 10-0-0 oc 6= Mechanical 12) C 12), 6=-106 (LC 12 | : 9) ₂₎ LC | chord live loa Bearings are capacity of 5 Refer to gird Provide mec bearing plate joint 6 and 13 This truss is International | er(s) for truss to tru hanical connection capable of withsta 31 lb uplift at joint 2 designed in accord Residential Code nd referenced stan | with any oint 2 SI uss conr n (by oth anding 1 2. dance w sections | other live loa No.2 crushi nections. ers) of truss 06 lb uplift a th the 2018 R502.11.1 a | ing to t | | | | | |
| FORCES | (lb) - Maximum Com Tension | | | | | | | | | | | | |
| TOP CHORD | 1-2=0/13, 2-3=-105/ 3-6=-248/242 | 64, 3-4=-7/0, | | | | | | | | | | | |
| BOT CHORD | 2-6=0/0, 5-6=0/0 | | | | | | | | | | | | |
| NOTES | | | | | | | | | | | | | |
| Vasd=91mp Ke=1.00; C exterior zor Interior (1) exposed ; e exposed;C | E 7-16; Vult=115mph ph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose ne and C-C Exterior(2 4-1-0 to 4-11-8 zone; end vertical left expos -C for members and for hown; Lumber DOL= | DL=6.0psf; h=35ft; d; MWFRS (envelop E) -0-11-0 to 4-1-0, cantilever left and rig ed; porch left and rig porces & MWFRS for | ght | | | | | | | | A | STATE OF M | MISSOLUTION |
| 2) TCLL: ASC Plate DOL= DOL=1.15) Cs=1.00; C | CE 7-16; Pr=25.0 psf (=1.15); Pf=25.0 psf (L); Is=1.0; Rough Cat C Ct=1.10 d snow loads have be | um DOL=1.15 Plate ; Fully Exp.; Ce=0.9 | • | | | | | | | - | | SEVI NUMI | erre |

- design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.



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|------------|-------|------------|-----|-----|-------------------------|------------------------|
| Job | Truss | Truss Type | Qty | Ply | Roof - Osage Lot 61 | AS NOTED F DEVELOPI |
| P240476-01 | B3 | Monopitch | 7 | 1 | Job Reference (optional | LEE'S SUN |

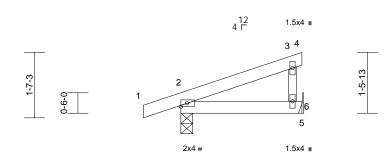
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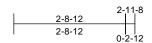
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Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

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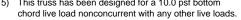


2-11-8

2-11-8

Scale = 1:28.2

| Loading | (psf) | Spacing | 2-0-0 | C | SI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------------------------|--|------------------------|------------|------------------|-----------------------------------|-------|------------------|-------|-------|--------|------|---------------|---|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | т | | .16 | Vert(LL) | 0.00 | 2-6 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf) | 25.0 | Lumber DOL | 1.15 | В | C 0 | .07 | Vert(CT) | -0.01 | 2-6 | >999 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | w | В 0 | .00 | Horz(CT) | 0.00 | 6 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TF | PI2014 M | atrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | | Weight: 11 lb | FT = 20% |
| LUMBER | | | 6) Be | earings are ass | sumed to be: Joint | 2 SF | P No.2 crushi | ng | | | | | |
| TOP CHORD | 2x4 SP No.2 | | | apacity of 565 p | | | | 0 | | | | | |
| BOT CHORD | 2x4 SP No.2 | | | |) for truss to truss | | | | | | | | |
| WEBS | 2x3 SPF No.2 | | | | ical connection (by | | | | | | | | |
| BRACING | | | | | pable of withstandi | ing 3 | 0 lb uplift at j | oint | | | | | |
| TOP CHORD | | | | and 78 lb uplift | at joint 2. igned in accordand | ce wi | ith the 2018 | | | | | | |
| | 3-0-0 oc purlins, ex | | | | sidential Code sec | | | nd | | | | | |
| BOT CHORD | Rigid ceiling directly bracing. | applied of 10-0-0 of | | | eferenced standar | | | | | | | | |
| REACTIONS | 0 | 6= Mechanical | LOAD | CASE(S) St | andard | | | | | | | | |
| | Max Horiz 2=57 (LC | 13) | | | | | | | | | | | |
| | Max Uplift 2=-78 (LC | C 12), 6=-30 (LC 16) | | | | | | | | | | | |
| | Max Grav 2=281 (L | C 23), 6=161 (LC 23 | 5) | | | | | | | | | | |
| FORCES | (lb) - Maximum Con | npression/Maximum | | | | | | | | | | | |
| | Tension | | | | | | | | | | | | |
| TOP CHORD | , | | 51/144 | | | | | | | | | | |
| BOT CHORD | 2-6=-23/25, 5-6=0/0 | | | | | | | | | | | | |
| NOTES | | | | | | | | | | | | | |
| | CE 7-16; Vult=115mph | | | | | | | | | | | | |
| | mph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose | | | | | | | | | | | | |
| | one and C-C Exterior(2 | | | | | | | | | | | | |
| | exposed ; end vertical | | | | | | | | | | | | ~ |
| | C-C for members and f | | | | | | | | | | | Sol | all |
| | shown; Lumber DOL= | 1.60 plate grip | | | | | | | | | | B.F. OF I | MISS W |
| DOL=1.6 | | | | | | | | | | | 4 | TATE OF I | NJ |
| | SCE 7-16; Pr=25.0 psf (| | | | | | | | | | H | SCOT | TM. VEN |
| | L=1.15); Pf=25.0 psf (L 5); Is=1.0; Rough Cat (| | | | | | | | | | A | SEV | |
| Cs=1.00; | | 5, 1 ully Exp., 06-0.8 | <i>,</i> | | | | | | | | (U A | - | |
| | ed snow loads have be | een considered for th | nis | | | | | | | | SV | 4 | 0 |
| design. | | | | | | | | | | | KX- | lotten. | Ser Mar |
| | s has been designed fo | | | | | | | | | - | YA - | NUM | ALL |
| | 2.0 psf or 2.00 times fla | | sf on | | | | | | | | N. | PE-2001 | 018807 |
| | s non-concurrent with | | | | | | | | | | Y | NO 1 | 154 |
| I nis truss | s has been designed fo | r a 10.0 psr bottom | | | | | | | | | | N 0.02 | - NUK |





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May 10,2024

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| | | | | | | | | | | | RELEASF | E FOR CONSTRUCTION |
|--|---|---|--------------------|-------------------|---|-------------|-------------------|-----------------|-------------|----------------|-------------------|--|
| Job | Truss | ,, , ,, , ,, | Truss Ty | уре | | Qty | Ply | Roof - Osa | age Lot f | ∂1 | | ED FOR PLAN REVIEW |
| P240476-01 | C1 | | Commo | on Structural | I Gable | 1 | 1 | Job Refere | Ū. | | | OPMENT SERVICES 165475620 SUMMIT, MISSOURI |
| | | Spring Hills, KS - 66083, | <u> </u> | | Run: 8.63 S Apr 26 2 | 2024 Print | t: 8.630 S Apr 2 | 26 2024 MiTek | Industries, | s, Inc. T | u May 09 206:28 | |
| | | | | | ID:gfrsVxpQoNOr6dk | kbbQOWdc | oylfDM-RfC?P | sB70Hq3NSgP | qnL8w3ul™ | TXbGF | WrCDoi794z9e7 | |
| | | | | | · • • | | | | | 10.0 | | |
| | | | | | <u>4-9-4</u> 4-9-4 | -+ | | 9-6-8 4-9-4 | | 10-5- 0-11- | - <u>8</u> 1-0 | |
| | | | | | - | | | ••• | | | | |
| | | | | | | 4x4 = | 2 | | | | | |
| | | | | | 1 <u>2</u> 8 Г | 3 | | | | | | |
| | | \top \top | | | 1.5x4 u | | 12 | 1.5x4 n | | | | |
| | | | | | 2 | | \sim | 4 | | | | |
| | | | | | | | 4 | | | | | |
| | | 4-0-5 | | 3x8 II | | | | \sum | | | | |
| | | 4 | 1 | | | | | | \sim | 5 | | |
| | | | - | ۲. | | | | | - F | , T | 2 | |
| | | 0-10-3 | _ 11 | | | | [| <u></u> | | | 6 | |
| | | | | | | XXXX | | | <u> </u> | \$ | \checkmark | |
| | | | | | 10 | 9 | | 8 | 3 | 3x8 II | | |
| | | | | | 1.5x4 µ | 1.5x4 | II 1. | 1.5x4 n | | | | |
| | | | | ļ | 4-9-4 | | | 9-6-8 | | _ | | |
| Scale = 1:35.6 | | | | I | 4-9-4 | T | | 4-9-4 | | I | | |
| oading | (psf) | Spacing | 1-11-4 | , | CSI | DF | EFL | in (loc) | l/defl | L/d | PLATES | GRIP |
| CLL (roof) | 25.0 | Plate Grip DOL | 1.15 |) | тс о | 0.15 Ve | ert(LL) | n/a - | n/a | 999 | MT20 | 197/144 |
| Snow (Pf) FCDL | 25.0 10.0 | Lumber DOL Rep Stress Incr | 1.15 YES |) | | | () | n/a - 0.00 7 | n/a n/a | 999 n/a | | |
| BCLL BCDL | 0.0 | Code | | B/TPI2014 | Matrix-R | | | | | , | Weight: 41 lb | FT = 20% |
| | 10.0 | L | 3) | | | | (the trues | | | | Weignit. HT inc | FI = 20% |
| | 2x4 SP No.2 | | | only. For stud | ned for wind loads in t uds exposed to wind (r | (normal to | o the face), | | | | | |
| | 2x4 SP No.2 2x4 SP No.2 *Excep | pt* 9-3:2x3 SPF No.2 | | or consult qua | rd Industry Gable End I ualified building design | gner as per | er ANSI/TPI 1 | 1. | | | | |
| OTHERS 2 | 2x3 SPF No.2 | • • • | 4) | TCLL: ASCE | E 7-16; Pr=25.0 psf (ro 1.15); Pf=25.0 psf (Lun | roof LL: Lu | um DOL=1.15 | | | | | |
| | | eathing directly applied | d or | | Is=1.0; Rough Cat C; | | | | | | | |
| | 6-0-0 oc purlins, exe Rigid ceiling directly | xcept end verticals. y applied or 6-0-0 oc | 5) | Unbalanced s | =1.10 I snow loads have beer | ən conside | ered for this | | | | | |
| | bracing. | 8=9-6-8, 9=9-6-8, | 6) | | as been designed for g | | | | | | | |
| , | 10=9-6-8, | 3, 11=9-6-8 | | | psf or 2.00 times flat r | | | 'n | | | | |
| | | C 16), 8=-110 (LC 17), |), 7) | Gable require | res continuous bottom fully sheathed from on | n chord be | earing. | | | | | |
| | 10=-114 (| (LC 16), 11=-41 (LC 1 _C 24), 8=337 (LC 24), | 17) 0) | braced agains | nst lateral movement (i | | | | | | | |
| | | _C 28), 10=364 (LC 23) | ^{3),} 10) |) This truss has | s spaced at 2-0-0 oc. as been designed for a | | | | | | | |
| • | lb) - Maximum Com | mpression/Maximum | | | ad nonconcurrent with are assumed to be SP | | | | | | | |
| TOP CHORD 1 | | -133/229, 3-4=-133/23 | · | capacity of 56 | | | 0 | | | | | |
| 4 | | =0/69, 1-11=-155/112, | 12) | bearing plate | e capable of withstand | ding 41 lb | o uplift at joint | | | | | |
| BOT CHORD 1 | |)=-51/76, 8-9=-51/76, | | lb uplift at join | | | | | | | STAT | ADE |
| WEBS 3 | | 308/253, 4-8=-284/23 | 31 | International I | designed in accordant Residential Code sec | ections R50 | 502.11.1 and | | | s/ | BIE OF I | MISSOL |
| NOTES 1) Unbalanced r | roof live loads have | e been considered for | | | and referenced standar | | | | | R | ST SCOTI | TM. TEN |
| this design. | | | - | AD UNCENT | Oldiluara | | | | | h | SEVI | |
| Vasd=91mph | 7-16; Vult=115mph n; TCDL=6.0psf; BC | CDL=6.0psf; h=35ft; | | | | | | | | × | 1 th, | ton lon |
| exterior zone | and C-C Corner(3E | | | | | | | | | Pr- | NUME | |
| | I-9-4 to 9-9-4, Exteri | rior(2N) 9-9-4 to 10-5-8 xposed ; end vertical le | | | | | | | | Ø. | PE-20010 | 018807 |
| | | | л | | | | | | | A. | ESSIONA | ENGL S |
| zone; cantilev and right expo | osed;C-C for memb | | | | | | | | | | VIA TATA | TYPE |
| zone; cantilev and right expo | oosed;C-C for memb reactions shown; Lu | bers and forces & umber DOL=1.60 plate | 9 | | | | | | | | CONA | L |
| zone; cantilev and right expo MWFRS for re | oosed;C-C for memb reactions shown; Lu | | е | | | | | | | | alle | y 10,2024 |

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUED MITEK REFERENCE PAGE MIL-7473 rev. 1/2/2023 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, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)

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| Job P240476-01 | Truss C2 | Truss Type Common | Qty 1 | Ply 1 | Roof - Osage Lot 61 Job Reference (option | |
|---------------------------------|---------------------------------------|---|-------------------|----------|---|--|
| Premier Building Supply (Spring | ghill, KS), Spring Hills, KS - 66083, | | | | 5 2024 MiTek Industries, In 0Hq3NSgPqnL8w3uITXbG | |
| | | 4-9-4 | | | 6-8 10- 9-4 0-1 | |
| | | | 4x4 = 2 | | | |
| | 4-1-11 4-0-5 0-10-3 | 8 ¹² 4-4-8 3x10 II 7 7 | 6 1.5x4 | | 4-8 3 7 7 7 7 7 7 7 7 7 7 7 7 7 | |



Scale = 1:37 Plate Offsets (X, Y): [1:0-5-9,0-1-8], [5:0-5-9,0-1-8]

| Plate Offsets | (X, Y): [1:0-5-9,0-1-8], | [5:0-5-9,0-1-8] | | | | | | | | | | | |
|--|---|--|---|--|---|--|--|-------------------------------|--------------------------|-------------------------------|--------------------------|---------------------------------|------------------------------------|
| Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL | (psf) 25.0 25.0 10.0 0.0 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 YES IRC201 | 8/TPI2014 | CSI TC BC WB Matrix-R | 0.56 0.27 0.10 | DEFL Vert(LL) Vert(CT) Horz(CT) | in 0.03 -0.03 0.00 | (loc) 5-6 5-6 5 | l/defl >999 >999 n/a | L/d 240 180 n/a | PLATES MT20 Weight: 37 lb | GRIP 197/144 FT = 20% |
| this desig Wind: AS Vasd=911 Ke=1.00; exterior z Exterior(2 zone; car exposed; and force DOL=1.6 TCLL: AS Plate DO DOL=1.1 Cs=1.00; | 2x4 SP No.2 2x4 SP No.2 *Excep Structural wood she 6-0-0 cc purlins, exi Rigid ceiling directly bracing. (size) 5=0-3-0, 7 Max Horiz 7=-114 (L Max Uplift 5=-83 (LC (Max Grav 5=613 (LC (Ib) - Maximum Com Tension 1-2=-515/449, 2-3=- 1-7=-485/338, 3-5=- 0 6-7=-238/296, 5-6=- 2-6=-310/185 Ced roof live loads have gn. GCE 7-16; Vult=115mph mph; TCDL=6.0psf; BC (Cat. II; Exp C; Enclose cone and C-C Exterior(2 2R) 4-9-4 to 9-9-4, Inter itilever left and right exp ss & MWFRS for reactio 00 plate grip DOL=1.60 SCE 7-16; Pr=25.0 psf (L 5); Is=1.0; Rough Cat C | athing directly applie cept end verticals. applied or 10-0-0 oc 7=0-3-8 C 12) : 17), 7=-56 (LC 16) C 24), 7=537 (LC 23) pression/Maximum 516/453, 3-4=0/71, 567/411 238/296 been considered for (3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop E) 0-1-12 to 4-9-4, ior (1) 9-9-4 to 10-5- posed; c-C for memb ins shown; Lumber roof LL: Lum DOL=1 um DOL=1.15 Plate ; Fully Exp.; Ce=0.9 | r ped or p) p) b) t t t t t t t t t t t t t t t t t t | load of 12.0 overhangs n This truss ha chord live loa All bearings capacity of 5 Provide mec bearing plate 7 and 83 lb u This truss is International | hanical connectio e capable of withs uplift at joint 5. designed in accor Residential Code nd referenced sta | flat roof le h other li for a 10.1 with any e SP No. n (by oth tanding f rdance w s sections | bad of 25.0 p ve loads. D psf bottom other live loa 2 crushing ers) of truss 66 lb uplift at th the 2018 5 R502.11.1 a | esf on ads. to joint | | J | | SEV SEV NUM PE-2001 | BER 018807 |

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| | | | | | | | | | | | E FOR CONSTRUCTION |
|----------------------------|-------------------|------------------------------|-----------------|------------------|--------------|----------------------|---------------|--------------|--------------------|---|---|
| Job | Truss | | Truss Type | | Qty | Ply | R | oof - Osag | e Lot 61 | | ED FOR PLAN REVIEW LOPMENT SERVICES 165475622 |
| P240476-01 | C3 | | Common | | 1 | 1 | Jc | ob Referen | nce (optior | | 165475622 S SUMMIT, MISSOURI |
| Premier Building Supply (S | pringhill, KS), S | pring Hills, KS - 66083, | | | | | pr 26 202 | 24 MiTek Inc | dustries, Inc | :. Thu May (9) 206:2 bGKWrCDol99429C?f | |
| | | | | 4-5-12 | | 9-3- | | 1 | 0-2-0 | | |
| | | | | 4-5-12 | | 4-9- | 4 | C |)-11-0 | | |
| | | | | 4 | <4 = | | | | | | |
| | | | | 2 | | | | | | | |
| | _ | | | 8 ¹² | | | | | | | |
| | | | 1 | 4-1-0 | | \searrow | | | | | |
| | Ξ | ų | | | | | | | | | |
| | 4-1-11 | 4-0-5 | 3x4 II | | | | \searrow | | | | |
| | | | 1 | | | 4-4-8 | | | 3 | | |
| | | 1-0-8 | 0-7-2 | 6 | | | 4-13 | - | 4 | 0-10-3 | |
| | - | | 7 | 6 | | | Ó | | 5 | | |
| | | | Зх4 н | | 5x4 n | | | لط 3x8 | 3 11 | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | 4-5-12 4-5-12 | | 9-3- 4-9- | | | | | |
| Scale = 1:37 | | | ; | | | | | | | | |
| Loading | (psf) | Spacing | 2-0-0 | CSI TC | 0.47 | DEFL | in | | | /d PLATES 40 MT20 | GRIP |
| TCLL (roof) Snow (Pf) | 25.0 25.0 | Plate Grip DOL Lumber DOL | 1.15 1.15 | BC | 0.47 0.31 | Vert(LL) Vert(CT) | 0.04 -0.04 | | >999 24 >999 18 | | 244/190 |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.10 | Horz(CT) | 0.00 | 5 | n/a n | /a | |
| BCLL BCDL | 0.0 10.0 | Code | IRC2018/TPI2014 | Matrix-R | | | | | | Weight: 37 lb | FT = 20% |

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WFBS 2x4 SP No.2 *Except* 6-2:2x3 SPF No.2 BRACING TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. **REACTIONS** (size) 5=0-3-0, 7= Mechanical Max Horiz 7=-113 (LC 12) Max Uplift 5=-82 (LC 17), 7=-53 (LC 16) Max Grav 5=597 (LC 24), 7=514 (LC 23) FORCES (lb) - Maximum Compression/Maximum Tension 1-2=-475/433, 2-3=-488/427, 3-4=0/71, TOP CHORD 1-7=-454/330, 3-5=-549/400 BOT CHORD 6-7=-215/270, 5-6=-215/270 WEBS 2-6=-293/171 NOTES

Unbalanced roof live loads have been considered for

Wind: ASCE 7-16; Vult=115mph (3-second gust)

Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope)

exterior zone and C-C Exterior(2E) 0-1-12 to 4-5-12, Exterior(2R) 4-5-12 to 9-5-12, Interior (1) 9-5-12 to

10-2-0 zone; cantilever left and right exposed ; end

Lumber DOL=1.60 plate grip DOL=1.60

vertical right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown;

TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15

Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate

DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9;

Unbalanced snow loads have been considered for this

1)

2)

3)

4)

this design.

Cs=1.00; Ct=1.10

design.

- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
 This truss has been designed for a 10.0 psf bottom
-) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Bearings are assumed to be: , Joint 5 SP No.2 crushing
- capacity of 565 psi.
- 8) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 7 and 82 lb uplift at joint 5.
- 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.

LOAD CASE(S) Standard



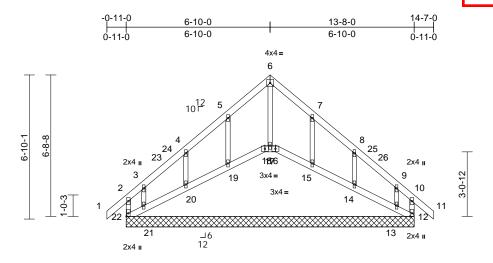
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 **ANSITPTI Quality Criteria**, and **DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)

Aitak

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| | | | | | | RELEASE FOR CONSTRUCTION |
|----------------------------------|--------------------------------------|------------------------------|-----|-----|---|-----------------------------------|
| Job | Truss | Truss Type | Qtv | Plv | Roof - Osage Lot 61 | AS NOTED FOR PLAN REVIEW |
| | | | | , | | DEVELOPMENT SERVICES 165475623 |
| P240476-01 | D1 | Roof Special Supported Gable | 1 | 1 | Job Reference (optional | |
| Premier Building Supply (Springh | nill, KS), Spring Hills, KS - 66083, | | | | 5 2024 MiTek Industries, Inc. T B70Hq3NSqPqnL8w3uITXbGI | |

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Thu May 09 266:29 22 ID:ZbQgzf7wzm0H2n9hpnXDoOylfRA-RfC?PsB70Hq3NSgPqnL8w3uITXbG WrCDoi 942927f



| | 0-5-8 | 6-7-0 | 7-1-0 | 13-2-8 | 13-8-0 |
|----------------|-------|-------|-------|--------|--------|
| Scale = 1:54.7 | 0-5-8 | 6-1-8 | 0-6-0 | 6-1-8 | 0-5-8 |

| Plate Offsets (X, Y): | [10:0-0-0,Edge], | [13:0-0-0,Edge], | [14:0-0-0,Edge], | [15:0-0-0,Edge] |
|-----------------------|------------------|------------------|------------------|-----------------|

| | , | | ej, [13:0-0-0,Edgej, [] | 14.0 0 0 | ,Euge], [10.0 0 | | | | | | | | 1 | |
|-------------|---|--------------|---|------------|----------------------------|--|-------------|-----------------|------|---------|------------|---------|---------------------------------------|--|
| Loading | | (psf) | Spacing | 2-0-0 | | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL (roof) | | 25.0 | Plate Grip DOL | 1.15 | | TC | 0.15 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 197/144 |
| Snow (Pf) | | 25.0 | Lumber DOL | 1.15 | | BC | 0.10 | Vert(CT) | n/a | - | n/a | 999 | | |
| TCDL | | 10.0 | Rep Stress Incr | YES | | WB | 0.08 | Horz(CT) | 0.00 | 12 | n/a | n/a | - | |
| BCLL | | 0.0 | Code | IRC2 | 018/TPI2014 | Matrix-R | | | | | | | | |
| BCDL | | 10.0 | | | | | - | | | | | | Weight: 65 lb | FT = 20% |
| LUMBER | | | | | BOT CHORD | 21-22=-154/150, | 20-21=-1 | 24/121, | | 9) Tru | ss to be | fully s | heathed from or | e face or securely |
| TOP CHORD | 2x4 SP N | 0.2 | | | | 19-20=-129/123, | | , | | | | | | (i.e. diagonal web). |
| BOT CHORD | 2x4 SP N | 0.2 | | | | 17-18=-107/105, | | , | | | | | ed at 2-0-0 oc. | |
| WEBS | 2x3 SPF I | | | | | 15-16=-128/120, | | | | | | | | a 10.0 psf bottom |
| OTHERS | 2x3 SPF I | No.2 | | | | 13-14=-130/124, | | | | | | | | any other live loads. |
| BRACING | | | | | WEBS | 6-17=-295/103, 5 | | | | | | | ssumed to be SI | P No.2 crushing |
| TOP CHORD | Structural | l wood she | athing directly applie | ed or | | 4-20=-220/144, 3 | | | | | acity of | | | |
| | | | cept end verticals. | | | 7-15=-268/138, 8 | -14=-220 | (144, | | | | | | y others) of truss to |
| BOT CHORD | | ing directly | applied or 6-0-0 oc | | | 9-13=-127/118 | | | | | | | | ding 255 lb uplift at 9 lb uplift at joint 18, 20 |
| | bracing. | | | | NOTES | | | | | | | | | int 17, 102 lb uplift at |
| REACTIONS | (size) | | 0, 13=13-8-0, 14=13 | -0-0, | | d roof live loads ha | ave been | considered for | r | | | | | 74 lb uplift at joint 21, |
| | | | 0, 16=13-8-0, 17=13 | , | this design | | | | | | | | | ft at joint 14 and 152 lb |
| | | | 0, 19=13-8-0, 20=13 | -8-0, | | E 7-16; Vult=115m ph; TCDL=6.0psf; | | | | | ft at join | | | |
| | | | 0, 22=13-8-0 | | | at. II; Exp C; Enclo | | | | | | | him required to | provide full bearing |
| | Max Horiz | | | | | ne and C-C Exterio | | | je) | | | | | 18, 16, 17, 19, 20, 21, |
| | Max Uplift | | (LC 13), 13=-152 (LC | | | 4-1-0 to 6-10-0, Ex | | | | | 14, 13. | | · · · · · · · · · · · · · · · · · · · | -, -, , -, -, , |
| | | | (LC 17), 15=-101 (LC | | () | terior (1) 11-10-0 t | | , | ≏r | 15) Thi | s truss is | s desig | ned in accordar | nce with the 2018 |
| | | | .C 13), 17=-12 (LC 1 | | | nt exposed ; end v | | | | Inte | rnationa | al Resi | dential Code see | ctions R502.11.1 and |
| | | | .C 13), 19=-102 (LC (LC 16), 21=-174 (LC | | | C for members ar | | | | R80 | 02.10.2 | and ref | ferenced standa | rd ANSI/TPI 1. |
| | | 20=-100 (| | 5 13), | | hown; Lumber DO | | | | LOAD | CASE(S |) Sta | ndard | |
| | Max Grav | | LC 22), 13=218 (LC | 15) | DOL=1.60 | | | 01 | | | | | | |
| | | | LC 24), 15=308 (LC | | 3) Truss desi | gned for wind load | ls in the p | lane of the tru | SS | | | | | an |
| | | • | C 14), 17=218 (LC 1 | | only. For s | tuds exposed to w | ind (norm | al to the face) | , | | | | THE OF | MIG |
| | | · · | C 14), 19=308 (LC 2 | | | rd Industry Gable | | | | | | | FEE | IN SCH |
| | | | LC 23), 21=242 (LC | 14), | | qualified building d | | | | | | 6 | A.M. | N.S |
| | | 22=274 (l | | <i>,</i> , | | E 7-16; Pr=25.0 p | | | | | | R | SCOT | TM. YEY |
| FORCES | (lb) - Max | imum Corr | pression/Maximum | | | =1.15); Pf=25.0 ps | | | | | | 4 | / SEV | TER \ Y |
| | Tension | | | | | ; Is=1.0; Rough Ca | at C; Fully | Exp.; Ce=0.9 |); | | | No. | 1 11 2 | |
| TOP CHORD | 2-22=-186 | 6/138, 1-2= | =0/78, 2-3=-153/163 | , | Cs=1.00; C | | | | | | | | | |
| | 3-4=-100/ | /122, 4-5=- | 106/206, 5-6=-164/2 | 293, | , | d snow loads have | e neeu co | isidered for th | 115 | | - | | and. | Sime |
| | 6-7=-164/ | /287, 7-8=- | 105/200, 8-9=-82/11 | 14, | design. 6) This truss ł | nas been designed | for area | er of min roof | livo | | | 83 | | IBER |
| | 9-10=-125 | 5/137, 10-1 | 11=0/78, 10-12=-186 | 6/118 | |) psf or 2.00 times | | | | | | N' | O∖ PE-200 | 1018807 |
| | | | | | | | | | | | | Q | 1 and | 188 |
| | | | | | | rhangs non-concurrent with other live loads. blates are 1.5x4 MT20 unless otherwise indicated. ble requires continuous bottom chord bearing. | | | | | | ENO'S | | |
| | | | | | | ires continuous bo | | | | | | | NON! | AL EL |
| | | | | | -, | | | | | | | | AUT IN | and |
| | | | | | | | | | | | | | Ma | |

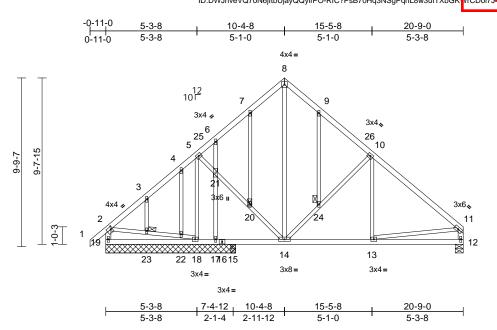
May 10,2024



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| | | | | | | RELEASE FOR CONSTRUCTION |
|------------|-------|-------------------------|-----|------|--------------------------|-----------------------------------|
| Job | Truss | Truss Type | Qty | Ply | Roof - Osage Lot 61 | AS NOTED FOR PLAN REVIEW |
| 565 | 11035 | Truss Type | Quy | i iy | Roor - Osage Lot of | DEVELOPMENT SERVICES 165475624 |
| P240476-01 | D2 | Common Structural Gable | 1 | 1 | Job Reference (optional) | |
| | | | | | | |

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Thu May 0 26:35 22/29:24



| Scale = | 1:66.9 |
|---------|--------|
|---------|--------|

Plate Offsets (X, Y): [2:0-1-0,0-1-12]

| Loading | | (psf) | Spacing | 1-11-4 | | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--|--|--|--|----------------------|---|---|--|--|-------------|---|--|---|--|--|
| TCLL (roof) | | 25.0 | Plate Grip DOL | 1.15 | | TC | 0.48 | Vert(LL) | -0.02 | 13-14 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf) | | 25.0 | Lumber DOL | 1.15 | | BC | 0.26 | Vert(CT) | -0.04 | 13-14 | >999 | 180 | | |
| CDL | | 10.0 | Rep Stress Incr | YES | | WB | 0.35 | Horz(CT) | 0.01 | 12 | n/a | n/a | | |
| BCLL | | 0.0 | Code | IRC2018 | 8/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | | 10.0 | | | | | | | | | | | Weight: 128 lb | FT = 20% |
| UMBER OP CHORD OT CHORD VEBS THERS RACING OP CHORD OT CHORD | No.2 2x3 SPF N Structural v 5-10-4 oc p | .2 lo.2 *Exce lo.2 wood she purlins, e | ept* 19-2,12-11:2x4 S athing directly applie xcept end verticals. applied or 6-0-0 oc | P dor N(1) | DTES Unbalanced this design. | 2-23=-259/263, 2 18-22=-280/279, 5-18=-559/100, 5 20-21=-24/402, 1 8-14=-106/178, 1 10-24=-405/221, 6-21=-321/120, 1 4-22=-68/50, 3-23 roof live loads ha | 11-13=0/ -21=-18/3 4-20=-20 4-24=-44 10-13=0/ 7-21=-39 3=-22/24, | 451, 97, 407, 0/235, 184, 7-20=-56 6/147, 9-24=-50/20 considered fo | | cho 11) All I cap 12) Pro bea 19, Ib u 13) This Inte R80 | rd live lo bearings acity of vide me tring plat 78 lb up plift at jo s truss is ernationa 02.10.2 a | bad noi s are as 565 ps chanic te capa blift at ju bint 17. s desig al Resid and ref | ssumed to be SP il. al connection (by able of withstandi oint 18, 75 lb upli ned in accordand dential Code sect ierenced standard | any other live loads. No.2 crushing others) of truss to ng 4 lb uplift at joint ft at joint 12 and 171 we with the 2018 ions R502.11.1 and |
| DINTS | 1 Brace at 23, 24 | Jt(s): 20, | | 2) | Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; | | | | | LOAD | CASE(S |) Sta | ndard | |
| | | | | 6),), | Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 4-4-8, Interior (1) 4-4-8 to 10-4-8, Exterior(2R) 10-4-8 to 15-5-8, Interior (1) 15-5-8 to 20-7-4 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 Truss designed for wind loads in the plane of the truss | | | | | | | | | |
| ORCES | (lb) - Maxir Tension | num Corr | pression/Maximum | 0) | only. For studs exposed to wind (normal to the face), | | | | | | | | 0000 | 1000 |
| TOP CHORD | | | | | | | | | | | | | STATE OF I STATE SCOT | |
| BOT CHORD | 18-19=-279/345, 17-18=-175/189, 15-17=-175/189, 14-15=-175/189, 13-14=-15/560, 12-13=-65/128 | | | | Unbalanced design. | =1.00; Ct=1.10 balanced snow loads have been considered for this sign. | | | | | | | Serve | |
| | | | | 6) 7) 8) | load of 12.0 overhangs r All plates ar Truss to be | as been designed psf or 2.00 times ion-concurrent wit e 1.5x4 MT20 unl fully sheathed from | flat roof le th other li ess other m one fac | bad of 25.0 per ve loads. wise indicated e or securely | sf on d. | | - | No. | PE-2001 | 018807 |
| | | | | 9) | • | nst lateral movem | | iagonai web) | • | | | | Car | T |

Gable studs spaced at 2-0-0 oc.

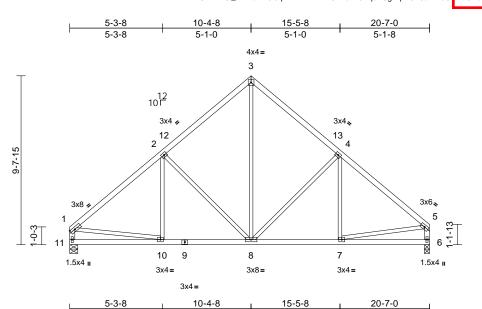
9)



May 10,2024

| | | | | | | RELEASE FOR CONSTRUCTION |
|------------|-------|------------|-----|-----|-------------------------|-----------------------------------|
| Job | Truss | Truss Type | Qty | Plv | Roof - Osage Lot 61 | AS NOTED FOR PLAN REVIEW |
| | | | ς., | , | 1001 Oddgo Lot o'i | DEVELOPMENT SERVICES 165475625 |
| P240476-01 | D3 | Common | 7 | 1 | Job Reference (optional | |

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Thu May (9) 246:39 ID:GxRwKJt_VBVId7M5I9q1YhznBFw-RfC?PsB70Hq3NSgPqnL8w3uITXbG WrCDoix 4256 f



5-1-0

5-1-8

5-3-8

| Scale = 1:65.9 | | | | | | | | | | | | | |
|---|---|--|---|---|---|---|--|--|----------------------------|-------------------------------|--------------------------|----------------------------------|------------------------------------|
| Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL | (psf) 25.0 25.0 10.0 0.0 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 YES IRC201 | 8/TPI2014 | CSI TC BC WB Matrix-S | 0.61 0.28 0.52 | DEFL Vert(LL) Vert(CT) Horz(CT) | in -0.03 -0.06 0.01 | (loc) 8-10 8-10 6 | l/defl >999 >999 n/a | L/d 240 180 n/a | PLATES MT20 Weight: 107 lb | GRIP 197/144 FT = 20% |
| LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD FORCES TOP CHORD BOT CHORD | 2x4 SP No.2 2x4 SP No.2 2x3 SPF No.2 *Exce Structural wood she 4-9-4 oc purlins, exi Rigid ceiling directly bracing. (size) 6=0-3-8, 1 Max Horiz 11=273 (L Max Grav 6=0-61 (L Max Grav 6=0-61 (L Max Grav 6=0-61 (L) (b) - Maximum Com Tension 1-2=-1137/181, 2-3= 4-5=-1108/177, 1-11 10-11=-267/344, 8-1 7-8=-85/786, 6-7=-5 | athing directly applie cept end verticals. applied or 10-0-0 or 11=0-5-8 _C 13) .C 17), 11=-113 (LC C 23), 11=969 (LC 2: pression/Maximum =-874/252, 3-4=-871/ 1=-917/155, 5-6=-915 10=-155/804, | 4) ed or 5) c 6) 7) 16) 2) 8) /250, L | Plate DOL=1 DOL=1.15); Cs=1.00; Ct Unbalanced design. This truss ha chord live loa All bearings capacity of 5 Provide mec bearing plate 11 and 111 I This truss is International | snow loads hav as been designe are assumed to 65 psi. hanical connect e capable of with b uplift at joint 6 designed in acc Residential Coo nd referenced si | sf (Lum DC Cat C; Fully re been cor ed for a 10. nt with any be SP No. tion (by oth hstanding 1 5. cordance w de sections | DL=1.15 Plat Exp.; Ce=0 asidered for D psf bottom other live loc 2 crushing ers) of truss 13 lb uplift a ith the 2018 i R502.11.1 | e .9; this ads. to at joint | | | | | |

5-1-0



WFBS

.

 Unbalanced roof live loads have been considered for this design.

4-7=-32/135

1-10=-22/689, 5-7=-37/705, 2-10=-6/153, 2-8=-407/234, 3-8=-172/533, 4-8=-383/229,

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 5-3-8, Interior (1) 5-3-8 to 10-4-8, Exterior(2R) 10-4-8 to 15-5-8, Interior (1) 15-5-8 to 20-5-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 property 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, rection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)





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| | | | | | | | | | RELEASE FOR CONSTRU | CTION |
|-------------------------------------|---|---------------------------|--------------------------------|------------------------------|------------------------------------|--------------------------------|------------------------|--------------------------|--|-------|
| Job | Truss | Truss Type | | Qty | Ply | Roof - (| Osage Lot | 61 | AS NOTED FOR PLAN RE | |
| P240476-01 | E1 | Roof Spec | ial Supported Gable | 1 | 1 | Job Re | erence (or | otional | DEVELOPMENT SERVIC 165475626 LEE'S SUMMIT, MISSO | URI |
| Premier Building Supply (| (Springhill, KS), Spring Hills | , KS - 66083, | Run: 8.63 S A ID:gsITprHaUg | pr 26 2024 Pr IgDiJ2ZYuBG | int: 8.630 S Ap ikylfYi-RfC?Psl | r 26 2024 MiT | ek Industries | s, Inc. T <mark>h</mark> | u May 0 25 22/20 CDoi7J4227 | 24 |
| | | -0-11-0 | 18-6-0 | | | | + <u>22-2</u> + 3-8 | 2-4 | ł | |
| | | 0-11-0 | 18-6-0 | | | | 3-8 | -4 | I | |
| | | | | | | | 4x4 = | | | |
| | | | | | | | 13 ক | 14 4x | | |
| | | 3x4 = 55 | | 10 | 30 ¹¹ | | | | 4-0-14 | |
| | | 1 | 2 | 1-10-12 | | | | 22-2 | 2-4 | |
| Scale = 1:64.5 | | l | 2 | 1-10-12 | | | | 22-2 0-3 | 1 -8 | |
| | [2:0-2-1,0-0-5], [5:0-1-1: | 2,0-1-8] | | | | | | | | |
| Loading TCLL (roof) Snow (Pf) | (psf) Spacin 25.0 Plate G 25.0 Lumbe | ng 2-0-0 Grip DOL 1.15 | CSI TC BC | 0.13 0.04 | DEFL Vert(LL) Vert(CT) | in (lo 0.00 2-2 0.00 2-2 | 7 >999 | L/d 240 180 | PLATES GRIP MT20 244/190 | |

| | 20.0 | | .10 | |
|------|---|---|--|--|
| TCDL | 10.0 | | ΈS | WB 0.28 Horz(CT) 0.01 29 n/a n/a |
| BCLL | 0.0 | Code I | RC2018/TPI2014 | Matrix-R |
| BCDL | 10.0 | | | Weight: 132 lb FT = 20% |
| | Left 2x4 SP No.2 Structural wood sh 6-0-0 cc purlins, e Rigid ceiling directl bracing. 1 Row at midpt (size) 2=21-10 17=21-1 21=21-1 23=21-1 23=21-1 23=21-1 23=21-1 23=21-1 23=21-1 23=21-1 23=21-1 23=21-1 23=26-1 Max Uplift 16=-9 (L 19=64 (23=-60 (26=-42 (29=-11 (Max Grav 2=218 (l 17=240 19=261 21=183 23=180 26=171 29=22 (l | eathing directly applied c xcept end verticals. y applied or 10-0-0 oc 13-18, 12-19, 14-17 -12, 16=21-10-12, 0-12, 18=21-10-12, 0-12, 20=21-10-12, 0-12, 22=21-10-12, 0-12, 24=21-10-12, 0-12, 24=21-10-12, 0-12, 24=21-10-12, 0-12, 24=21-10-12, 0-12, 24=21-10-12, 0-12, 27=21-10-12, 0-12, 24=21-10-12, 0-12, 27=21-10-12, 0-12, 27=21-10-12, 0-12, 27=21-10-12, 0-12, 27=213 (LC 16), LC 16), 22=-61 (LC 16), LC 16), 22=-61 (LC 16), LC 16), 22=-61 (LC 16), LC 16), 18=180 (LC 24), (LC 23), 18=43 (LC 24), (LC 23), 22=180 (LC 36), (LC 3), 27=215 (LC 36), | WEBS NOTES 1) Unbalance this design 2) Wind: ASG Vasd=91n Ke=1.00; exterior 22 21-9-8 zor vertical lef MWFRS f grip DOL= 3) Truss des only. For see Stand or consult 4) TCLL: AS Plate DOL DOL=1.15 Cs=1.00; | 6-7=-278/100, 7-8=-227/80, 8-9=-179/62, 9-10=-130/43, 10-11=-81/44, 11-12=-48/54, 12-13=-52/106, 13-14=-54/94, 14-15=-25/38, 16-28=-32/21, 15-28=-32/21 D 2-27=-1/1, 26-27=-1/1, 24-26=-1/1, 20-21=-1/1, 12-22=-1/1, 12-22=-1/1, 12-22=-1/1, 20-21=-1/1, 12-22=-1/1, 20-21=-1/1, 18-19=-1/1, 13-18=-139/20, 12-19=-222/96, 11-20=-135/97, 4-27=-162/242, 14-17=-206/128, 15-29=-22/20 D ad of 12.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads. All plates are 1.5x4 MT20 unless otherwise indicated. Gable studs spaced at 2-0-0 oc. This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. Hoearing are assumed to be SP No.2 crushing capacity of 565 psi. Bearing at joint(s) 29 considers parallel to grain value using ANSI/TP1 1 angle to grain formula. Building designer should verify capacity of bearing surface. Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 9 lb uplift at joint 23, 65 lb uplift at joint 22, 60 lb uplift at joint 22, 60 lb uplift at joint 22, 36 lb uplift at joint 24, 42 lb uplift at joint 22, 61 lb uplift at joint 27, 50 lb uplift at joint 22, 60 lb uplift at joint 22, 37 This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TP1 1. SCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 DL=1.15); Pr=25.0 psf (roof LL: Lum DOL=0.9); |

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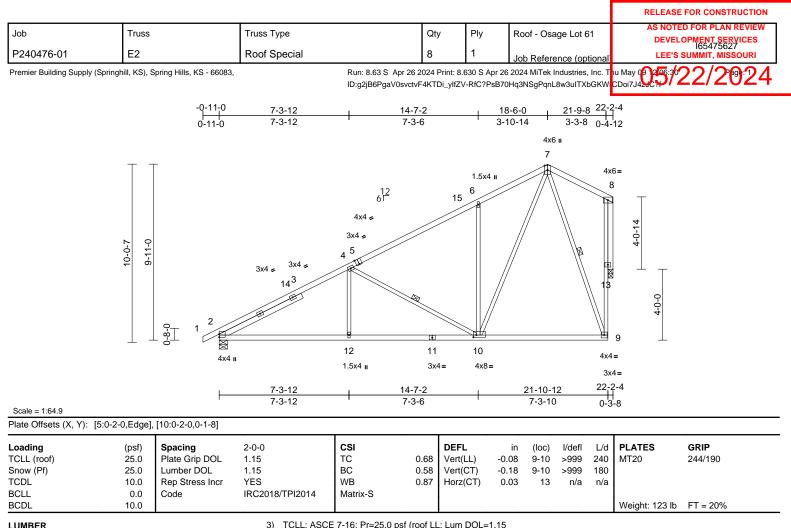
Continued on page 2 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss 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, reaction and bracing of trusses and truss systems, see AMSI/PTI Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

| | | | | | | RELEASE FOR CONSTRUCTION |
|----------------------------------|--------------------------------------|------------------------------|-----|-----|---|---|
| Job | Truss | Truss Type | Qty | Ply | Roof - Osage Lot 61 | AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES |
| P240476-01 | E1 | Roof Special Supported Gable | 1 | 1 | Job Reference (optional) | DEVELOPMENT SERVICES 165475626 LEE'S SUMMIT, MISSOURI |
| Premier Building Supply (Springh | nill, KS), Spring Hills, KS - 66083, | | | | 2024 MiTek Industries, Inc. T Hq3NSgPqnL8w3uITXbGKWr | |

LOAD CASE(S) Standard

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 buckling of trusses and truss systems, see ANSI/TPI1 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)





TOP CHORD 2x4 SP No.2 2x4 SP No.2 *Except* 9-8:2x3 SPF No.2 BOT CHORD WEBS 2x3 SPF No.2 OTHERS 2x4 SP No.2 SLIDER Left 2x4 SP No.2 -- 5-2-1 BRACING TOP CHORD Structural wood sheathing directly applied or 4-3-10 oc purlins. BOT CHORD Rigid ceiling directly applied or 8-10-1 oc bracing. WEBS 1 Row at midpt 7-9, 4-10 REACTIONS 2=0-5-8. 13=0-3-2 (size) Max Horiz 2=382 (LC 16) Max Uplift 2=-157 (LC 16), 13=-232 (LC 16) Max Grav 2=1079 (LC 23), 13=990 (LC 23) FORCES (Ib) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/12, 2-4=-1604/185, 4-6=-925/130,

1-2=0/12, 2-4=-1004/150, 4-5=-525/130, 6-7=-927/268, 7-8=-97/66 BOT CHORD 2-12=-437/1333, 10-12=-437/1333, 9-10=-84/303, 9-13=-207/928, 8-13=-196/70 WEBS 7-10=-320/1117, 7-9=-915/255, 6-10=-544/264, 4-10=-703/269, 4-12=0/302

- NOTES
- Unbalanced roof live loads have been considered for this design.
- 2) Wind: AŠCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior (1) 4-1-0 to 18-6-0, Exterior(2E) 18-6-0 to 21-9-8 zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.7) All bearings are assumed to be SP No.2 crushing
- an bearings are assumed to be SP No.2 crushing capacity of 565 psi.
 Bearing at joint(s) 13 considers parallel to grain value pairs (considers) and (consider
- 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 157 lb uplift at joint 2 and 232 lb uplift at joint 13.
- 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.

LOAD CASE(S) Standard



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| | | | | | - | _ | | | | |
|---|---|---|---|--|---|---|---|--|-----------------------------------|---|
| Job | Truss | | Truss Type | | Qty | Ply | Roof - Osa | age Lot 61 | | OPMENT SERVICES 165475628 |
| P240476-01 | E3 | | Roof Special | | 2 | 1 | Job Refere | ence (optional | | SUMMIT, MISSOURI |
| Premier Building S | Supply (Springhill, KS), S | Spring Hills, KS - 66083, | | Run: 8.63 S Apr 26 ID:HXyS?ajf9Rc8qt | 3 2024 Print: DAhrG?Jw7yl | 8.630 S Apr 2 fVZ-RfC?PsE | 26 2024 MiTek I 370Hq3NSgPqn | Industries, Inc. T IL8w3uITXbGKV | nu May (9) 206:30 rCDoi7J42JC4 | 22/2024 |
| | | -0-11- 0-11-0 | 0 <u>5-3-9</u>) 5-3-9 | 10-8-5 5-4-12 | <u>16-0-4</u> 5-3-15 | | 19-5-0 <u>3-6-0 21</u> 5-12 ₀₋₁₁₋₀ 2 _{6x6} | 22-2-4 <u> -9-8</u> -4-8 0-4-12 | | |
| | | | | | | | MT18HS 5x8 8 | н | | |
| | 2-0-01 | | 3x4 = 20 3 3 4 3 4 3 4 4 5 4 4 18 1.5x4 = 18 | 6^{12} 3x4 3x4 = 6 5 17 16 3x4 = 4x8 | | 7 | | 11 | 3-0-0 4-0-0 | |
| Scale = 1:72.9 | | ŀ | 5-3-9 5-3-9 | 10-8-5 5-4-12 | <u>16-1-8</u> 5-5-3 | | | 22-2-4 <u>10-12</u> -7-0 ₀₋₃₋₈ | | |
| Plate Offsets (X | , Y): [2:Edge,0-2-1], | [13:0-4-8,0-3-0], [14 | 0-3-12,Edge] | | | | | | | |
| Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL | (psf) 25.0 25.0 10.0 0.0 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 YES IRC2018/TPI2014 | CSI TC BC WB Matrix-S | 0.43 Ver | t(LL) - t(CT) - | in (loc) 0.08 7-14 0.15 15-16 0.07 19 | l/defl L/d >999 240 >999 180 n/a n/a | MT20 MT18HS | GRIP 244/190 244/190 FT = 20% |
| WEBS OTHERS | 2x4 SP No.2 *Excep SPF No.2 2x3 SPF No.2 2x4 SP No.2 Left 2x4 SP No.2 2 | t* 15-7,9-12,11-10:2> 2-11-2 athing directly applied | Vasd=91mph Ke=1.00; Cat exterior zone Interior (1) 4- zone; cantilev and right exp MWFRS for r grip DOL=1.6 3) TCLL: ASCE | 7-16; Vult=115mph ; TCDL=6.0psf; BCI : II; Exp C; Enclose: and C-C Exterior(2) 1-0 to 18-6-0, Exteri- ver left and right exp osed;C-C for memb eactions shown; Luu 00 7-16; Pr=25.0 psf (I 15): Pf=25.0 psf (I | DL=6.0psf; d; MWFRS E) -0-11-0 f ior(2E) 18-(posed ; end ers and for mber DOL= | h=35ft; (envelope) o 4-1-0, 5-0 to 21-9- vertical lefi ces & :1.60 plate n DOL=1.1 | 8 t | | | |

Rigid ceiling directly applied or 6-0-0 oc bracing. REACTIONS 2=0-5-8. 19=0-3-2 (size) Max Horiz 2=382 (LC 16) Max Uplift 2=-157 (LC 16), 19=-232 (LC 16) Max Grav 2=1079 (LC 23), 19=990 (LC 23) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/12, 2-4=-1673/203, 4-6=-1240/167, 6-7=-1067/231, 7-8=-964/302, 8-9=-685/242, 9-10=-443/145 BOT CHORD 2-18=-475/1395, 16-18=-475/1395, 15-16=-1/12, 14-15=0/90, 7-14=-239/139, 13-14=-80/321, 12-13=0/43, 9-13=-532/179, 11-12=-6/1, 11-19=0/38, 10-19=-978/292 WEBS 11-13=-7/23, 10-13=-174/707, 9-14=-336/1100, 6-14=-248/91, 4-18=0/213, 4-16=-412/177, 6-16=-268/166, 14-16=-366/1185

NOTES

BOT CHORD

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

Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads. 6) All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom 7) chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing 8) capacity of 565 psi.
- 9) 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 157 lb uplift at joint 2 and 232 lb uplift at joint 19.
- 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.

LOAD CASE(S) Standard





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 beigh valid for use only with with with sets outputs into design is based only door parameters shown, and is for an individual dualing 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/TPI Quality Criteria**, and **DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)

| | | | | | | | | | RELEA | SE FOR CONSTRUCTION |
|---|--|---|--|--|-------------------------|---------------|--------------------------|----------------------|---------------------|---|
| Job | Truss | | Truss Type | | Qty | Ply | Roof - Osa | age Lot 61 | | TED FOR PLAN REVIEW |
| P240476-01 | E4 | | Common | | 7 | 1 | Ioh Refere | ence (optiona | 1.000 | ELOPMENT SERVICES 165475629 IS SUMMIT, MISSOURI |
| Premier Building Supply | (Springhill, KS), Spr | ing Hills, KS - 66083, | | Run: 8.63 S Apr 26 | | | 6 2024 MiTek I | ndustries, Inc. | Thu May (19 12 46:3 | 1 |
| | | | | ID:8Oa_xmr2iWnAy | eeW9D9b2Fy | lfSp-RfC?Ps | B70Hq3NSgPo | qnL8w3ulTXbG | WrCDoi794z3C? | 22/2024 |
| _ | Q-11-0 7 | | | 10.0.0 | | | | | |)- <u>0</u> 37-11-0 |
| | · · · | 7-3-12 7-3-12 | <u>14-7-2</u> 7-3-6 | <u> </u> | 22-4-7 | | <u> </u> | | 37-0 | , , |
| · · · · · · · · · · · · · · · · · · · | , 110 | | | | 5x5 II | | | | | 0110 |
| | | | | | 7 | | | | | |
| ΤΤ | | | | 1.5x4 II | $\overline{\mathbb{A}}$ | 1.5x4 I | | | | |
| | | | 12 6 22 | 6 | | 8 | ²³ 24 | | | |
| | | 3) | 21 | | | | 24 | 3 | ×4 👟 | |
| × 0 | | 3x4 | | | | | | 3x6 | | |
| 9-11-0 | | 4 5 | | | | | | n s | 10 | |
| 6 | | 3x4 = | | | // | | | \rightarrow | | 3x4 ≈ |
| | 24 | 3 ²⁰ | | | | \parallel | | | 25 | 11 |
| | 3x4 = | | No. Contraction of the second se | | | | | | | 3x4 ≥ |
| | 2 | | | | | | / | | D | 12 13 |
| \perp \perp $\stackrel{\circ}{\to}$ \perp | | 19 | 18 | 17 | | 16 | 15 | | 4 | |
| | MT18HS 3x10 ॥ | 1.5x4 | | 4x8= | | 4x8= | 4x6= | | .5x4 II | MT18HS 3x10 II |
| | , 7 | 7-3-12 | 14-7-2 | 22- | -4-14 | 1 | 29-8- | 4 | 37-0 |)-0 |
| | 7 | 7-3-12 | 7-3-6 | 7- | 9-12 | 1 | 7-3-0 | 6 | 7-3- | 12 |
| Scale = 1:68.7 | | | | | | | | | | |
| Plate Offsets (X, Y): | [2:0-4-1,Edge], [1 | 12:0-4-1,Edge], [16:0 | -3-12,0-1-8], [17:0-1-12 | ,0-1-8] | | | | | | |
| Loading | | | 2-0-0 | CSI | DEF | | in (loc) | l/defl L/d | | GRIP |
| TCLL (roof) Snow (Pf) | | | 1.15 1.15 | | 0.90 Vert 0.76 Vert | | 0.17 16-17 0.36 16-17 | >999 240 >999 180 | | 244/190 244/190 |
| TCDL | 10.0 | Rep Stress Incr | YES | | 0.90 Horz | . , | 0.14 12 | n/a n/a | | 210,000 |
| BCLL BCDL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | Weight: 180 I | b FT = 20% |
| LUMBER | | | 2) Wind: ASCE | 7-16; Vult=115mph (| 3-second a | uet) | · · · | | | |
| | SP No.2 | | Vasd=91mph | ; TCDL=6.0psf; BCD | L=6.0psf; h | =35ft; | | | | |
| | SP No.2 SPF No.2 | | | II; Exp C; Enclosed and C-C Exterior(2E | | | | | | |
| SLIDER Left 2 | 2x4 SP No.2 4-0 | 0-10, Right 2x4 SP | | 1-0 to 18-6-0, Exterio or (1) 23-6-0 to 37-1 | | | ÷+ | | | |
| NO.2 BRACING | 4-0-10 | | and right expo | osed ; end vertical le | ft and right | | ı | | | |
| TOP CHORD Strue | | hing directly applied. | | for members and fo wn; Lumber DOL=1. | | | | | | |
| BOT CHORD Rigit braci | 0 , 1 | pplied or 8-8-5 oc | DOL=1.60 | , | | • | | | | |
| | | -17, 10-16 | | 7-16; Pr=25.0 psf (ro 15); Pf=25.0 psf (Lu | | |) | | | |
| REACTIONS (size) Max H | 2=0-5-8, 12 oriz 2=183 (LC 2 | | DOL=1.15); Is Cs=1.00; Ct= | s=1.0; Rough Cat C; | Fully Exp.; | Ce=0.9; | | | | |
| | | 16), 12=-276 (LC 17 1), 12=1729 (LC 1) |) 4) Unbalanced s | now loads have bee | en considere | ed for this | | | | |
| | | ression/Maximum | design. 5) This truss has | been designed for | greater of m | nin roof live | • | | | |
| Tens TOP CHORD 1-2= | | 47, 4-6=-2308/435, | | sf or 2.00 times flat n-concurrent with ot | | | n | | | |
| 6-7= | 2285/551, 7-8=-2 | 2285/551, | 6) All plates are | MT20 plates unless | otherwise i | ndicated. | | | | |
| | =-2308/435, 10-12 3=0/12 | 2=-2935/447, | / | been designed for d nonconcurrent with | | | | | | |
| | =-454/2497, 17-19 | | All bearings a | re assumed to be S | | | | | | ADDE |
| | 7=-110/1596, 14-′ 4=-286/2497 | 10=-200/2497, | capacity of 56 9) Provide mech | anical connection (b | by others) of | truss to | | | E OF | MISSO |
| | =0/296, 4-17=-64 [·] =-625/264, 10-16= | 1/256, 6-17=-625/264 641/257 | | capable of withstand 6 lb uplift at joint 12. | | uplift at | | | 9251 | 1 CAN |
| 10-1- | 4=0/296, 7-17=-32 | | 10) This truss is d | lesigned in accordar | nce with the | | | A | | TT M. |
| 7-16 NOTES | =-319/1161 | | | Residential Code se d referenced standa | | | | Ba | × SE | |
| 1) Unbalanced roof | live loads have be | een considered for | LOAD CASE(S) | | | | | X | datts | Xan Lat |
| this design. | | | | | | | | - W | | |
| | | | | | | | | 1.0 | | 1018807 |



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| Job T P240476-01 E Premier Building Supply (Springhill, | russ | Truss Type | | | - | | | | |
|--|--|--|--|---|---|---|--|---|--|
| | F | | | Qty | Ply | Roof - | Osage Lot 6 | 61 | AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES |
| Premier Building Supply (Springhill, | :D | Common Support | ed Gable | 1 | 1 | loh R | eference (op | tional | DEVELOPMENT SERVICES 165475630 LEE'S SUMMIT, MISSOURI |
| | KS), Spring Hills, KS - 66083, | | | 6 2024 Print: 8 ShQIN2gNrTy | 3.630 S Apr 2 /lfdh-RfC?Ps | 26 2024 M | iTek Industries | , Inc. T | |
| -Q-11-0 | | 10.0.0 | | | | | 27.0 | _ | 37-11-0 |
| 0-11-0 | | <u>18-6-0</u> 18-6-0 | | | | | <u> </u> | | 0-11-0 |
| Scale = 1:67.9 Plate Offsets (X, Y): [2:0-4-1,E Loading (p) TCLL (roof) 25 | 6 4 = 45 ⁵ 4 4 4 4 4 4 4 4 4 4 4 4 4 | 6 ¹² 10 3x6 = 9 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 | = CSI TC | Image: Non-optimized state Image: Non-optimized state 0.11 DEF | t(LL) | 16 323 3 in (i n/a | 17 8 8 8 1 30 x6= 0 0 1/defl - n/a | 3x6 18 1: 29 | ða |
| Snow (Pf) 25 TCDL 10 BCLL 0 | | 1.15 YES IRC2018/TPI2014 | BC WB Matrix-S | | t(CT) z(CT) (| n/a).01 | - n/a 24 n/a | 999 n/a | |
| BCDL 10 | | IRC2010/1712014 | Matrix-S | | | | | | Weight: 195 lb FT = 20% |
| - 1-6-7 BRACING TOP CHORD Structural wood 6-0-0 oc purins BOT CHORD Rigid ceiling dir bracing. WEBS 1 Row at midpt REACTIONS (size) 2=37 34=3 34=3 41=3 44=3 Max Horiz 2=-1 Max Uplift 2=-2 29=- 32=- 34=- 37=- 44=3 44 | rectly applied or 10-0-0 oc 13-35, 12-36, 14-34 7-0-0, 24=37-0-0, 26=37-0- 37-0-0, 28=37-0-0, 29=37-0 37-0-0, 32=37-0-0, 33=37-0 37-0-0, 38=37-0-0, 40=37-0 37-0-0, 42=37-0-0, 43=37-0 37-0-0, 42=37-0-0, 43=37-0 37-0-0 | 0.2 I or FORCES 0, 1-0, 1 | 28=182 (l 30=180 (l 33=265 (l 35=208 (l 37=265 (l 40=180 (l | C 37, $27=1C 37$, $29=2C 37$, $32=2C 24$, $34=2C 29$, $36=2C 23$, $38=2C 36$, $41=1C 36$, $43=1C 36$, $48=193$, $37=48/193$, $32=48/193$, $32=48/193$, $32=48/193$, $32=48/193$, $33=-48/193$, $33=-48/193$, $33=-48/193$, $33=-225/104C 36=-234/82$, $33=-225/104C 36=-241/98$, $32=-225/104$ | 172 (LC 1), 180 (LC 24) 221 (LC 24) 274 (LC 23) 221 (LC 23) 180 (LC 23) 172 (LC 1), aximum 2/90, 9=-82/159, 1, 4, 0-21=-73/3 4-25=0/12 |), 2)), 3) (, 3) (, 3) (, 3) (, 4) (, 5) | this design. Wind: ASCI Vasd=91mg Ke=1.00; C exterior zor Exterior (2N 23-6-0, Extr left and righ exposed;C- reactions sh DOL=1.60 Truss desig only. For si see Standa or consult of TCLL: ASCC Plate DOL= DOL=1.15); Cs=1.00; C | E 7-16; bh; TCI e and) 4-1-0 prior(22) t t expos C for n nown; I gned fcc trd Indu ualifiec E 7-16 (1.15); I s=-1.0 d snow | ve loads have been considered for Vult=115mph (3-second gust) DL=6.0psf; BCDL=6.0psf; h=35ft; xp C; Enclosed; MWFRS (envelope) C-C Corner(3E) -0-11-0 to 4-1-0, to 18-6-0, Corner(3R) 18-6-0 to N) 23-6-0 to 37-11-0 zone; cantilever sed ; end vertical left and right nembers and forces & MWFRS for Lumber DOL=1.60 plate grip or wind loads in the plane of the truss posed to wind (normal to the face), stry Gable End Details as applicable, d building designer as per ANSI/TPI 1. ; Pr=25.0 psf (roof LL: Lum DOL=1.15 Pf=25.0 psf (Lum DOL=1.15 Plate); Rough Cat C; Fully Exp.; Ce=0.9; loads have been considered for this |

Continued on page 2 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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, rection and bracing of trusces and truss systems, see AMSI/TP11 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

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| | | | | | | RELEASE FOR CONSTRUCTION |
|---------------------------------|--------------------------------------|------------------------|-----|-----|--|---|
| Job | Truss | Truss Type | Qty | Ply | Roof - Osage Lot 61 | AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165475630 |
| P240476-01 | E5 | Common Supported Gable | 1 | 1 | Job Reference (optional | |
| Premier Building Supply (Spring | hill, KS), Spring Hills, KS - 66083, | | | | 5 2024 MiTek Industries, Inc. T 70Hq3NSgPqnL8w3ulTXbGK | |

6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.

7) All plates are 1.5x4 MT20 unless otherwise indicated.

8) Gable requires continuous bottom chord bearing.

9) Gable studs spaced at 2-0-0 oc.

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

11) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.

12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 2, 55 lb uplift at joint 36, 65 lb uplift at joint 37, 60 lb uplift at joint 38, 61 lb uplift at joint 40, 60 lb uplift at joint 41, 64 lb uplift at joint 42, 48 lb uplift at joint 43, 118 lb uplift at joint 44, 50 lb uplift at joint 34, 67 lb uplift at joint 33, 60 lb uplift at joint 32, 61 lb uplift at joint 30, 61 lb uplift at joint 29, 63 lb uplift at joint 28, 51 lb uplift at joint 27 and 105 lb uplift at joint 26.

- 13) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
- 14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

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| | | | | | | | | | | | | RELEASE | FOR CONSTRUCTION | |
|---|--|--|---|---|-----------------------------------|---|---|--------------------------------|--|--|--|--|---|---|
| Job | Truss | | Truss Ty | ре | | Qt | y Ply | R | oof - Osa | ige Lot 6 | 51 | | D FOR PLAN REVIEW | |
| P240476-01 | R1 | | Flat Gird | der | | 1 | 2 | | b Refere | ance (on | tional | | OPMENT SERVICES 165475631 SUMMIT, MISSOURI | |
| Premier Building | Supply (Springhill, KS), S | Spring Hills, KS - 66083, | | | Run: 8.63 S Ap | r 26 2024 I | | | | | | u May 09 2 26:31 | 22/2021 | |
| | | | | | ID:p1ILYtHBqm2 | Zt0HL5osF | BZ7ylfON-RfC? | PsB70H | q3NSgPqi | nL8w3ulT | XbGK | /rCDoi7J42J6? | | |
| | L | 5-2-2 | 1 | | 10-3-8 | 1 | 15-4-14 | | 1 | | 20-7-(| | | |
| | | 5-2-2 | I | | 5-1-6 | I | 5-1-6 | | I | | 5-2-2 | | | |
| | | 5x10 = | 14 2 | 1 | | 3x6 II 3 9 | 7x8 = 4 | 17 | 5x5= 5 18 | × | 19 | 5x10 = | , | |
| | | 0.0 - | 8x8 | 8= | 6x6 = | 5x8= | | | 8x8 | - | | 0.0 - | | |
| | 0-1- | 12 5 6 6 | | | | | | | | | 00 F 4 | <u>1 20-</u> 7-0 | | |
| | 0-1- | | | | <u>10-3-8</u> 5-1-6 | + | <u>15-4-14</u> 5-1-6 | | | | <u>20-5-4</u> 5-0-6 | | | |
| Scale = 1:45.7 | | | | | | | | | | | | - | | _ |
| | X, Y): [8:0-2-8,0-4-0], | [11:0-2-8,0-4-0] | | | | | - | | | | | | | _ |
| Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL | (psf) 25.0 25.0 10.0 0.0 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 NO IRC2018/ | TPI2014 | CSI TC BC WB Matrix-S | 0.57 0.84 0.76 | DEFL Vert(LL) Vert(CT) Horz(CT) | in -0.12 -0.22 0.03 | • • | l/defl >999 >999 n/a | L/d 240 180 n/a | PLATES MT20 Weight: 255 lb | GRIP 197/144 FT = 20% | |
| | end verticals. Rigid ceiling directly bracing. (size) 7=0-3-8, Max Horiz 12=-105 (Max Uplift 7=-1290 (Max Grav 7=5866 (I (Ib) - Maximum Com Tension 1-12=-5097/1324, 1- | P 1650F 1.5E -12 max.): 1-6, exce applied or 10-0-0 oc 12=0-5-8 LC 14) LC 13), 12=-1134 (LC .C 1), 12=5179 (LC 1 pression/Maximum | 3) pt C 12) ⁴⁾ | except if not CASE(S) see provided to d unless other Wind: ASCE Vasd=91mpl Ke=1.00; Ca exterior zone and right exg members an Lumber DOL TCLL: ASCE Plate DOL=1 DOL=1.15); Cs=1.00; Ct Unbalanced design. | snow loads have | back (B) nnection ls noted BCDL=6. Sed; MW (3) zone al left exp S for rea OCL=1.6(f (roof LL (Lum DC t C; Fully | face in the LC s have been as (F) or (B), cond gust) Dpsf; h=35ft; FRS (envelop; c antilever lef cosed;C-C for cctions shown; D :: Lum DOL=1.15 Plate Exp.; Ce=0.9 | be) ft I.15 D; nis | provide state of the state of t | vided su (n and 2 2-0-0, 97 (n and 2 3-0-0, 97 (n and 2 3-0, 97 | fficient 0 lb up 0 lb do 00 lb u 0 lb do 00 lb u 0 0 lb u 0, 970 1 and 2 up at 2 such c y of ot 0 Star ow (ba 1.15 bads (ll S=-70, | at 0-1-12, 970 l pwn and 200 lb u up at 6-0-0, 970 l pwn and 200 lb u up at 12-0-0, 970 l b down and 200 lb down and 200 lb down and 200 lb down and 200 lb | entrated load(s) 18 lb b down and 200 lb up p at 4-0-0, 970 lb b down and 200 lb up p at 10-0-0, 970 lb lb down and 200 lb lb up at 16-0-0, and -0, and 976 lb down rd. The design/ | |

- This truss has been designed for a 10.0 psf bottom 7) chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: Joint 12 SPF No.2 8) crushing capacity of 425 psi, Joint 7 SP No.2 crushing capacity of 565 psi.
- Bearing at joint(s) 12, 7 considers parallel to grain value 9) using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1134 lb uplift at joint 12 and 1290 lb uplift at joint 7.
- 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.

Vert: 4=-920, 3=-920, 13=-920, 14=-920, 15=-920, 16=-920, 17=-920, 18=-920, 19=-920, 20=-940



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5-6=-6413/1603, 6-7=-5782/1471

11-12=-97/106, 9-11=-1627/6339,

6-8=-1925/7694, 2-11=-4227/1157,

1-11=-1901/7608, 2-9=-588/2344,

3-9=-2521/704, 5-9=-579/2255,

Top chords connected as follows: 2x4 - 1 row at 0-9-0

Web connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x3 -

Bottom chords connected as follows: 2x6 - 2 rows

8-9=-1603/6413, 7-8=-19/79

5-8=-4280/1166

oc, 2x8 - 2 rows staggered at 0-9-0 oc.

(0.131"x3") nails as follows:

staggered at 0-9-0 oc.

1 row at 0-9-0 oc.

2-ply truss to be connected together with 10d

BOT CHORD

WEBS

NOTES

1)

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| | | | | 1 | | | - | 1 | | | | E FOR CONSTRUCTION | |
|-------------------------------|-------------------------------|---------------|--|-------------------|-------------------|--|------------|---------------------|-------------------|-----------------------|----------------|--|-----|
| Job | | Truss | | Truss T | /pe | | Qty | Ply | Roof - Osa | ge Lot 61 | | ED FOR PLAN REVIEW OPMENT SERVICES 165475632 | |
| P240476-01 | | V1 | | Valley | | | 1 | 1 | Job Refere | nce (optional | | SUMMIT, MISSOURI | |
| Premier Building | Supply (Springhil | II, KS), S | pring Hills, KS - 66083 | 3 | | Run: 8.63 S Apr 26 | | | | | | 22/2024 | 4 |
| | | | | | | 10.211003Q10FFLg | JIFSIGIS | yiiix-rio?ra | sbroi iqərəyeqi | ILEOWSUIT ADGR | MCD01734230 !! | | |
| | | | F | | | 13-8 | 8-9 | | | | | | |
| | | | | | | | | | | | | | |
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| | | | | | | | | | 6 | ł | | | |
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| | | | | | | | 14 | 5 | | | | | |
| | | | | | | | 4 | | | | | | |
| | | 6-10-9 | | | | 3 | 1 | | | | 6-10-9 | | |
| | | ġ | | | | | | | | | Q | | |
| | | | | 10 | 2 | | | | | | | | |
| | | | 6 | 1 <u>2</u> | | | | | | | | | |
| | | | 4 | 1 | | | | | | | | | |
| | | | | | | | | | | 8 | | | |
| | | | | 3x4 ≠ | 13 | 12 | 11 | 10 | 9 | | | | |
| | | | L | | | 13-8 | 9-9 | | | | | | |
| Scale = 1:42.8 | | | | | | | | | | 1 | | | |
| _oading FCLL (roof) | | (psf) 25.0 | Spacing Plate Grip DOL | 1-11-4 1.15 | | CSI TC | 0.13 DE | F L :(LL) | in (loc) n/a - | l/defl L/d n/a 999 | PLATES MT20 | GRIP 244/190 | |
| Snow (Pf) | : | 25.0 | Lumber DOL | 1.15 | | BC | 0.07 Ver | (TL) | n/a - | n/a 999 | WIT20 | 244/190 | |
| TCDL BCLL | | 10.0 0.0 | Rep Stress Incr Code | YES IRC2018 | 3/TPI2014 | WB Matrix-S | 0.17 Hoi | z(TL) | 0.00 8 | n/a n/a | | | |
| BCDL | | 10.0 | | | | | | | | | Weight: 61 lb | FT = 20% | |
| LUMBER TOP CHORD | 2x4 SP No.2 | | | 1) | | 7-16; Vult=115mph (TCDL=6.0psf; BCE | | | | | | | |
| BOT CHORD | 2x4 SP No.2 | 2 | | | Ke=1.00; Cat | II; Exp C; Enclosed and C-C Exterior(2E | ; MWFRS | (envelope) | | | | | |
| NEBS DTHERS | 2x3 SPF No.2 2x3 SPF No.2 | | | | Interior (1) 5-9 | -1 to 13-7-13 zone; ;C-C for members a | cantilever | left and | | | | | |
| BRACING | Structural wo | od shea | athing directly appli | ed or | for reactions | shown; Lumber DOL | | | | | | | |
| BOT CHORD | | , | cept end verticals. applied or 10-0-0 c | c 2) | | ed for wind loads in | | | | | | | |
| | bracing. | - | 8=13-8-9, 9=13-8-9 | | | Is exposed to wind Industry Gable End | | | , | | | | |
| REACTIONS | 10 | =13-8-9 | , 11=13-8-9, 12=13 | , | | alified building desig 7-16; Pr=25.0 psf (r | | | | | | | |
| | Max Horiz 1= | | 2 16) | - / | Plate DOL=1. | 15); Pf=25.0 psf (Lu =1.0; Rough Cat C; | Im DOL=1. | 15 Plate | | | | | |
| | | | 16), 9=-62 (LC 16) C 16), 11=-62 (LC ⁻ | | Cs=1.00; Ct= | | | | | | | | |
| | | | C 16), 13=-95 (LC 27), 8=98 (LC 22) | l6) ´ | design. | | | | | | | | |
| | 9= | 270 (LC | C 22), 10=254 (LC 2 C 22), 12=136 (LC | (2), 5) (1) 6) | Gable require | 1.5x4 MT20 unless s continuous bottom | | | | | | | |
| | 13 | =280 (L | C 22) | 8) | | paced at 2-0-0 oc. been designed for | a 10.0 psf | oottom | | | | | |
| ORCES | Tension | | pression/Maximum | 9) | | d nonconcurrent with re assumed to be S | | | | | | | |
| FOP CHORD | | | 249/97, 3-4=-204/8 1/48, 6-7=-54/28, | 3, [′] | capacity of 56 | | | Ū. | | | OF | MISSO | |
| BOT CHORD | 7-8=-83/42 1-13=0/1, 12- | -13=0/1 | , 11-12=0/1, 10-11: | | bearing plate | capable of withstan at joint 9, 59 lb uplif | ding 24 lb | iplift at join | | A | TE | 130°C | |
| WEBS | 9-10=0/1, 8-9 6-9=-228/116 | 9=0/1 | | | | Ib uplift at joint 12 a | | | | A | SCOT SEV | | |
| | | | =-110/83, 2-13=-20 | 9/165 11 |) This truss is c | lesigned in accorda | | | | a x | | ∽∕∕… \∻≸. | ••• |
| NOTES | | | | | | Residential Code se d referenced standa | | | | | roll> | Since | 7 |
| | | | | LC | AD CASE(S) | Standard | | | | X | PE-2001 | 018807 /EA | |
| | | | | | | | | | | V | THE | 15A | |
| | | | | | | | | | | | SIONA | LEN | |
| | | | | | | | | | | | all a | y 10,2024 | |

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

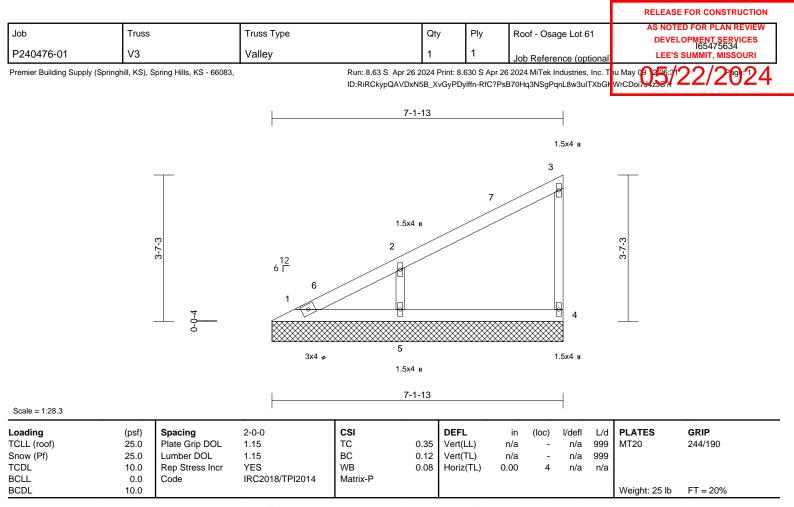


May 10,2024

| | | | | | | RELEASE FOR CONSTRUCTION |
|--|---|--|--|---|---|--|
| Job | Truss | Truss Type | Qty | Ply | Roof - Osage Lot 61 | AS NOTED FOR PLAN REVIEW DEVELOPMENT_SERVICES |
| P240476-01 | V2 | Valley | 1 | 1 | Job Reference (optiona | DEVELOPMENT SERVICES 165475633 LEE'S SUMMIT, MISSOURI |
| remier Building Supply (Spring | hill, KS), Spring Hills, KS - 66083, | - Run: 8.6 ID:CFvE | 3 S Apr 26 2024 Prin QhvRHyDpKJoX?bP | it: 8.630 S Apr વૃkvylfff-RfC?P૬ | 26 2024 MiTek Industries, Inc. sB70Hq3NSgPqnL8w3uITXbGK | |
| | | | 10-5-13 | | | |
| | | | | | 1.5x4 и 4 | |
| | 0-0-4 | 1.5x4 II 6 7 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 9 9 | 1.5x4 II | 5 | 5.3.3 |
| | | 3x4 ≠ 7 1.5x4 ⊯ | | 6 1.5x4 ш | 1.5x4 II | |
| Scale = 1:37.7 | | | 10-5-13 | | | |
| oading CLL (roof) now (Pf) CDL CLL CDL | (psf)Spacing25.0Plate Grip DOL25.0Lumber DOL10.0Rep Stress Incr0.0Code10.0 | 2-0-0 CSI 1.15 TC 1.15 BC YES WB IRC2018/TPI2014 Matrix-S | 0.38 V 0.13 V | PEFL /ert(LL) /ert(TL) loriz(TL) | in (loc) l/defl L/c n/a - n/a 999 n/a - n/a 999 0.00 5 n/a n/a | 9 MT20 244/190 9 |
| 6-0-0 oc pu Rigid ceiling bracing. EACTIONS (size) 1 7 Max Horiz 1 Max Uplift 5 7 Max Grav 1 6 ORCES (Ib) - Maxim Tension OP CHORD 1-2=-299/11 4-5=-174/90 OT CHORD 1-7=-25, 6- /EBS 3-6=-480/20 OTES) Wind: ASCE 7-16; Vult= Vasd=91mph; TCDL=6. Ke=1.00; Cat. II; Exp C; exterior zone and C-C C Interior (1) 5-7-9 to 10-5 exposed ;C-C for memb reactions shown; Lumbo DOL=1.60) Truss designed for wind only. For studs exposed | 2 .2 .2 vood sheathing directly applied rlins, except end verticals. g directly applied or 10-0-0 oc =10-5-13, 5=10-5-13, 6=10-5 '=10-5-13 =214 (LC 16) i=-48 (LC 16), 6=-137 (LC 16) '=-101 (LC 16) =93 (LC 16), 5=206 (LC 22), i=569 (LC 22), 7=302 (LC 22) hum Compression/Maximum 29, 2-3=-214/95, 3-4=-120/54, 9 -7=-2/5, 5-6=-2/5 39, 2-7=-236/218 =115mph (3-second gust) Opsf; BCDL=6.0psf; h=35ft; Enclosed; MWFRS (envelope Exterior(2E) 0-7-9 to 5-7-9, i-1 zone; cantilever left and rig pers and forces & MWFRS for | (a) Gable studs spaced at 4 (b) Gable studs spaced at 4 (c) This truss has been deschord live load nonconc capacity of 565 psi. (c) Provide mechanical conbearing plate capable of 5, 137 lb uplift at joint 6 (c) This truss is designed in International Residentia R802.10.2 and reference LOAD CASE(S) Standard (c) Standard | 5.0 psf (Lum DOL= ugh Cat C; Fully Ex- s have been consider bus bottom chord be 4-0-0 oc. signed for a 10.0 pre- current with any offer ed to be SP No.2 con- section (by others f withstanding 48 ll and 101 lb uplift an a cocordance with l Code sections Re- sed standard ANSI. | 1.15 Plate cp.; Ce=0.9; dered for this bearing. sf bottom ner live loads crushing s) of truss to b uplift at joint 7. the 2018 502.11.1 and | s. nt | STATE OF MISSO SCOTT M. SEVIER NUMBER PE-2001018807 SJONAL ENGINE |

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com) May 10,2024





| LUMBER | | |
|-----------|--|---|
| TOP CHORD | 2x4 SP No | o.2 |
| BOT CHORD | 2x4 SP No | o.2 |
| WEBS | 2x3 SPF N | No.2 |
| OTHERS | 2x3 SPF N | No.2 |
| BRACING | | |
| TOP CHORD | Structural | wood sheathing directly applied or |
| | 6-0-0 oc p | ourlins, except end verticals. |
| BOT CHORD | Rigid ceili | ng directly applied or 10-0-0 oc |
| | bracing. | |
| | | |
| REACTIONS | (size) | 1=7-1-13, 4=7-1-13, 5=7-1-13 |
| REACTIONS | · · · | 1=7-1-13, 4=7-1-13, 5=7-1-13 1=141 (LC 16) |
| REACTIONS | Max Horiz | |
| REACTIONS | Max Horiz Max Uplift | 1=141 (LC 16) |
| REACTIONS | Max Horiz Max Uplift | 1=141 (LC 16) 4=-48 (LC 16), 5=-128 (LC 16) |
| REACTIONS | Max Horiz Max Uplift Max Grav | 1=141 (LC 16) 4=-48 (LC 16), 5=-128 (LC 16) 1=72 (LC 27), 4=206 (LC 22), |
| | Max Horiz Max Uplift Max Grav | 1=141 (LC 16) 4=-48 (LC 16), 5=-128 (LC 16) 1=72 (LC 27), 4=206 (LC 22), 5=541 (LC 22) |
| | Max Horiz Max Uplift Max Grav (lb) - Max Tension | 1=141 (LC 16) 4=-48 (LC 16), 5=-128 (LC 16) 1=72 (LC 27), 4=206 (LC 22), 5=541 (LC 22) |
| FORCES | Max Horiz Max Uplift Max Grav (lb) - Max Tension | 1=141 (LC 16) 4=-48 (LC 16), 5=-128 (LC 16) 1=72 (LC 27), 4=206 (LC 22), 5=541 (LC 22) imum Compression/Maximum 105, 2-3=-115/59, 3-4=-175/119 |

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-7-9 to 5-7-9, Interior (1) 5-7-9 to 7-1-1 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss 2) 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

- 4) Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing. 5)
- 6) Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom 7)
- chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing 8)
- capacity of 565 psi.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 4 and 128 lb uplift at joint 5.
- 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. LOAD CASE(S) Standard



May 10,2024



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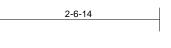
| | | | | | | | | | | RELEAS | E FOR CONSTRUCTION |
|---|---|---|---------------------|---|------------------------|-----------------------|-------------|-----------------------|------------|-------------------|---|
| Job | Truss | , | Truss Type | | Qty | Ply | Roof | of - Osage Lot | t 61 | | ED FOR PLAN REVIEW |
| P240476-01 | V4 | ŗ | Valley | | 1 | 1 | l dol. | Reference (o | ntional | | LOPMENT SERVICES 165475635 SUMMIT, MISSOURI |
| Premier Building Supply (Sp | pringhill, KS), { | Spring Hills, KS - 66083, | <u>.</u> | Run: 8.63 S Apr 26 2 ID:GbG2QBgWm6qV | 2024 Prin ^r | It: 8.630 S Apr | r 26 2024 M | MiTek Industrie | es, Inc. T | hu May 09 2 06:31 | 22/2021 |
| | | | | D.0002.20g | 2F11002_ | NTuyiny race. | P50101.4 | JNOYI YILLO | ULIANC | WICD01707200 | |
| | | | - | <u>3</u> . | 3-9-13 | | | - | | | |
| | | | | | | | 1. | .5x4 II | | | |
| | | | | | | | | JA7 | | | |
| | | <u> </u> | | | | | 2 | 1 | - | | |
| | | | , | 12 | | | | j | | | |
| | | 1-11-3 | 6 | Ē | / | // | | | | 1-11-3 | |
| | | | | 1 | / | / | | | | - | |
| | | 4 | / | | | | | 3 | | | |
| | | | = | | **** | | | | _ | | |
| | | | ₩ | | | | | 1 | | | |
| | | | | 3x4 ≤ | | | 1.5 | .5x4 u | | | |
| | | | | 3 | 8-9-13 | | I | 1 | | | |
| Scale = 1:20.7 | | | Γ | | | | | | | | |
| Loading TCLL (roof) | (psf) 25.0 | Spacing Plate Grip DOL | 2-0-0 1.15 | CSI TC 0 | | DEFL /ert(LL) | in (n/a | (loc) l/defl - n/a | | | GRIP 244/190 |
| Snow (Pf) TCDL | 25.0 25.0 10.0 | Lumber DOL Rep Stress Incr | 1.15 1.15 YES | BC 0 | 0.11 Ve | /ert(TL) /oriz(TL) | n/a n/a | - n/a - n/a | a 999 | | 244/130 |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | 7.00 | J1Z(1∟) | 11/a | - 174 | 11/0 | | FT 00% |
| | 10.0 | <u> </u> | 7) This truss h | as been designed for a | <u> </u> | of bottom | | | | Weight: 12 lb | FT = 20% |
| TOP CHORD 2x4 SP BOT CHORD 2x4 SP | | | chord live loa | bad nonconcurrent with are assumed to be SF | h any oth | her live loads | 3. | | | | |
| WEBS 2x3 SPI | | | capacity of 5 | | | - | | | | | |
| | | eathing directly applied | d or bearing plate | te capable of withstand uplift at joint 3. | | | | | | | |
| BOT CHORD Rigid ce | eiling directly | except end verticals. y applied or 10-0-0 oc | 10) This truss is | s designed in accordant Residential Code sec | | | 4 | | | | |
| bracing REACTIONS (size) | - | 3, 3=3-9-13 | R802.10.2 a | and referenced standar | | | 1 | | | | |
| Max Hori | riz 1=68 (LC | , | LOAD CASE(S) | Standard | | | | | | | |
| Max Grav | av 1=191 (LC | _C 22), 3=191 (LC 22) | | | | | | | | | |
| Tensior | n | mpression/Maximum | | | | | | | | | |
| TOP CHORD 1-2=-74 BOT CHORD 1-3=0/0 | 4/57, 2-3=-16 0 | <i>j</i> 0/130 | | | | | | | | | |
| Ke=1.00; Cat. II; Ex exterior zone and C and right exposed ;(| DL=6.0psf; BC xp C; Enclose C-C Exterior(2 ;C-C for meml | CDL=6.0psf; h=35ft; ed; MWFRS (envelope (2E) zone; cantilever lef nbers and forces & | eft | | | | | | | 200 | In |
| grip DOL=1.60 | | umber DOL=1.60 plate | | | | | | | | FE OF I | MISSO |
| only. For studs exp | posed to wind | in the plane of the truss d (normal to the face), | , | | | | | | E | STA SCOT | N N |
| | | nd Details as applicable signer as per ANSI/TPI | | | | | | | A | SEVI | |

- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 4-0-0 oc.

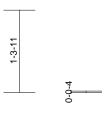


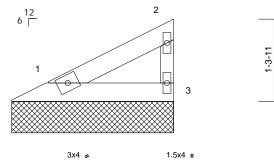
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| | | | | | | RELEASE FOR CONSTRUCTION |
|--------------------------------|---------------------------------------|------------|-----|-----|--|---|
| Job | Truss | Truss Type | Qty | Ply | Roof - Osage Lot 61 | AS NOTED FOR PLAN REVIEW |
| P240476-01 | V5 | Valley | 1 | 1 | Job Reference (optional | DEVELOPMENT SERVICES 165475636 LEE'S SUMMIT, MISSOURI |
| Premier Building Supply (Sprin | ghill, KS), Spring Hills, KS - 66083, | | | | 5 2024 MiTek Industries, Inc. T 370Hq3NSgPqnL8w3uITXbGK | |









2-6-14

Scale = 1:18.3

| Scale = 1:18.3 | | | | 1 | | | | | | | | |
|--|---|--|--|---|--|---|-------------------------|----------------------|-----------------------------|--------------------------|----------------|------------------------|
| Loading TCLL (roof) Snow (Pf) TCDL BCLL | (psf) 25.0 25.0 10.0 0.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 YES IRC2018/TPI201 | 4 CSI TC BC WB | 0.09 0.04 0.00 | DEFL Vert(LL) Vert(TL) Horiz(TL) | in n/a n/a n/a | (loc) - - - | l/defl n/a n/a n/a | L/d 999 999 n/a | PLATES MT20 | GRIP 244/190 |
| BCDL | 10.0 | | | | | | | | | | Weight: 8 lb | FT = 20% |
| LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS (| 2x4 SP No.2 2x4 SP No.2 2x3 SPF No.2 Structural wood she 2-7-6 oc purlins, ex Rigid ceiling directly bracing. size) 1=2-6-14, Aax Horiz 1=41 (LC Aax Uplift 1=-8 (LC Max Grav 1=108 (LC (Ib) - Maximum Com | cept end verticals. applied or 10-0-0 or 3=2-6-14 16), 3=-29 (LC 16) C 22), 3=108 (LC 22 | chord 8) All bea capaci 9) Provid bearin and 29 c 10) This tr Interna R802.1 | uss has been designed live load nonconcurren rings are assumed to ty of 565 psi. e mechanical connecti g plate capable of with I b uplift at joint 3. uss is designed in acco titional Residential Cod 10.2 and referenced st SE(S) Standard | it with any be SP No. on (by oth standing & ordance w le sections | other live load 2 crushing ers) of truss to 3 lb uplift at join ith the 2018 \$ R502.11.1 ar |) nt 1 | | | | | |
| FURCES | Tension | pression/maximum | | | | | | | | | | |
| | 1-2=-44/32, 2-3=-89 | /78 | | | | | | | | | | |
| | 1-3=0/0 | | | | | | | | | | | |
| Vasd=91mp Ke=1.00; C exterior zon and right ex | E 7-16; Vult=115mph sh; TCDL=6.0psf; BC at. II; Exp C; Enclose le and C-C Exterior(2 posed; C-C for meml reactions shown; Lu .60 | DL=6.0psf; h=35ft; d; MWFRS (envelop E) zone; cantilever bers and forces & | left | | | | | | | | S-C OF | MISSOL |
| only. For st see Standa | gned for wind loads ir tuds exposed to wind rd Industry Gable En- ualified building desig | (normal to the face) d Details as applical |), ble, | | | | | | | | S SCOT | 1 CAN |
| Plate DOL= | E 7-16; Pr=25.0 psf (⊡1.15); Pf=25.0 psf (L ; Is=1.0; Rough Cat C t=1.10 | um DOL=1.15 Plate | 1 | | | | | | - | B | gett? | fine |
| 4) Unbalanced design. | s now loads have be | | nis | | | | | | | Ø | PE-200 | 128 |
| | s spaced at 4-0-0 oc. | | | | | | | | | | S'SION A | IL ENSE |

- Ę
- 6) Gable studs spaced at 4-0-0 oc.



May 10,2024

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| | | | | | | | | | | RELEASE FOR CONSTRUCTION | | | |
|---|---------------------------|--|---|---|---------|----------------|-------------------------|--------------|-----------------------------|---|--|--|--|
| Job | Truss | | Truss Type | | Qty | Ply | Roof - Os | age Lot 61 | | AS NOTED FOR PLAN REVIEW | | | |
| P240476-01 | V6 | | Valley | | 1 | 1 | 1 Job Reference (option | | nali | DEVELOPMENT SERVICES 165475637 LEE'S SUMMIT, MISSOURI | | | |
| Premier Building Supply | y (Springhill, KS), S | pring Hills, KS - 66083, | | Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. ID:gvQmUPVk3p3UtFmBZ9J5uxylfgA-RfC?PsB70Hq3NSgPqnL8w3uITXbC | | | | | . Thu May 09 | | | | |
| | | | | ID:gvQmUPVk3p3UtH | FmBZ9J5 | uxylfgA-RfC?P | sB70Hq3NSg | PqnL8w3ulTXt | GIWrCDoiA | | | | |
| | | | | 5-10-14 | | | | | | | | | |
| | | | I | 1.5x4 u | | | | | | | | | |
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| | T | <u>-</u> | 10 | | | | | | -1 | | | | |
| | | | 1 <u>2</u> 6 Г | | | | | | 2-11-11 | | | | |
| | | | 1 | | | | | | | | | | |
| | | 4 | | | | | | | | | | | |
| | _ | 0-0 4- | | | | | | | | | | | |
| | | | | | ****** | | | 8 | | | | | |
| | | | : | 3x4 ≠ 1.5x4 ∎ | | | | | | | | | |
| | | | | 5-10 | 0-14 | | | 4 | | | | | |
| Scale = 1:24.8 | | ı — | l | 1 | | | | 1 | | | | | |
| Loading TCLL (roof) | (psf) 25.0 | Spacing Plate Grip DOL | 2-0-0 1.15 | CSI TC 1 | | EFL ert(LL) | in (loc) n/a - | | ./d PLATE 99 MT20 | ES GRIP 244/190 | | | |
| Snow (Pf) | 25.0 | Lumber DOL | 1.15 | BC 0 |).34 Ve | ert(TL) | n/a - | n/a 9 | 99 | 277/100 | | | |
| TCDL BCLL | 10.0 0.0 | Rep Stress Incr Code | YES IRC2018/TPI2014 | WB 0 Matrix-P | 0.00 Ho | oriz(TL) | n/a - | n/a r | /a | | | | |
| BCDL | 10.0 | | | · · · · · · · · · · · · · · · · · · · | | | | | Weight | :: 20 lb FT = 20% | | | |
| | SP No.2 | | chord live | has been designed for a load nonconcurrent with | any oth | er live loads. | | | | | | | |
| WEBS 2x3 | SP No.2 SPF No.2 | | capacity o | All bearings are assumed to be SP No.2 crushing capacity of 565 psi. Brevide mechanical economic (by others) of trues to | | | | | | | | | |
| BRACING TOP CHORD Stru | uctural wood shea | bearing pla | Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint | | | | | | | | | | |
| exce | ept end verticals. | | 1 and 80 ll 10) This truss | o uplift at joint 3. is designed in accordan | | | | | | | | | |
| brac REACTIONS (size) | cing. | l, 3=5-10-14 | R802.10.2 | al Residential Code sec and referenced standar | | | | | | | | | |
| Max | Horiz 1=114 (LC | | LOAD CASE(| S) Standard | | | | | | | | | |
| Max | Grav 1=341 (LC | C 22), 3=341 (LC 22) | | | | | | | | | | | |
| Ten | ision | pression/Maximum | | | | | | | | | | | |
| TOP CHORD 1-2= BOT CHORD 1-3= | =-120/103, 2-3=-2 =0/0 | 289/211 | | | | | | | | | | | |
| NOTES 1) Wind: ASCE 7-1 | 16: Vult=115mph | (3-second aust) | | | | | | | | | | | |
| Vasd=91mph; T | CDL=6.0psf; BC | DL=6.0psf; h=35ft; d; MWFRS (envelope | 2) | | | | | | | | | | |
| exterior zone an | d C-C Exterior(2 | E) zone; cantilever le bers and forces & | | | | | | | | | | | |
| | | mber DOL=1.60 plate | 9 | | | | | | B | OF MISSO | | | |
| 2) Truss designed | | n the plane of the trus (normal to the face), | s | | | | | | H ANY | | | | |
| see Standard In | dustry Gable End | d Details as applicabl gner as per ANSI/TPI | | | | | | E | 951 | SCOTT M. | | | |
| 3) TCLL: ASCE 7-1 | 16; Pr=25.0 psf (i | roof LL: Lum DOL=1. | | | | | | | * | | | | |
| Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; | | | | | | | | | Servica | | | | |
| | | en considered for this | 5 | | | | | - | PI PI | E-2001018807 | | | |
| design.5) Gable requires of | | m chord bearing. | | | | | | | IN VO | ION ENGL | | | |
| Gable studs spa | aced at 4-0-0 oc. | | | | | | | | D | IONAL ENCE | | | |

May 10,2024





| | | | | | | | | | | | FOR CONSTRUCTION | |
|---|---|--|---|---|--|---|--------------------------------------|-----------------|---|-------------------------|---------------------|---|
| Job | Truss | | Truss Type | | Qty | Ply | Roof - Osa | ige Lot 61 | 1 | | D FOR PLAN REVIEW |] |
| P240476-01 | V7 | | Valley | 1 | 1 1 | | Job Reference (optional | | DEVELOPMENT SERVICES 165475638 LEE'S SUMMIT, MISSOURI | | | |
| Premier Building | Supply (Springhill, KS), S | Spring Hills, KS - 66083, | Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. T ID:rl3UEMR_TzJL9KJ1DuChfgylfgG-RfC?PsB70Hq3NSgPqnL8w3uITXbGK | | | | | | nc. Th bGKV/ | WINDOIT HOUSE / 22/2024 | | |
| | | | | 9-2- | -14 | | | | | | | |
| | | | 1.5x4 u | | | | | | | | | |
| | | -0-0- | 6 ¹² 6 1 3x4 = | 7 | 1.5x4 µ 2 8 1.5x4 µ | | | 3 4 1.5x4 | 1 | 4-7-11 | | |
| Scale = 1:32.5 | | | | 9-2- | -14 | | | | | | | |
| Loading TCLL (roof) Snow (Pf) TCDL BCLL | (psf) 25.0 25.0 10.0 0.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 YES IRC2018/TPI2014 | BC | 0.18 Ve | FL rt(LL) rt(TL) riz(TL) | in (loc) n/a - n/a - 0.00 4 | | L/d 999 999 n/a | PLATES MT20 | GRIP 244/190 | _ |
| BCDL LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD | 2x4 SP No.2 2x3 SPF No.2 2x3 SPF No.2 Structural wood she 6-0-0 oc purlins, exi | athing directly applied cept end verticals. applied or 10-0-0 oc | design. 5) Gable requir 6) Gable studs 7) This truss ha chord live loc 8) All bearings capacity of 5 9) Provide med | snow loads have been es continuous bottom spaced at 4-0-0 oc. as been designed for ad nonconcurrent with are assumed to be S i65 psi. hanical connection (te e capable of withstam. | n chord be a 10.0 psf n any othe P No.2 cru by others) | aring. bottom r live loads ishing of truss to | 5. | | | Weight: 33 lb | FT = 20% | _ |

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 4 and 162 lb uplift at joint 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.
 LOAD CASE(S) Standard

5=645 (LC 22) FORCES (Ib) - Maximum Compression/Maximum Tension TOP CHORD 1-2=-240/112, 2-3=-125/49, 3-4=-163/98 BOT CHORD 1-5=-2/5, 4-5=-2/5

2-5=-529/341

Max Horiz 1=187 (LC 16)

1=9-2-14, 4=9-2-14, 5=9-2-14

Max Uplift 4=-42 (LC 16), 5=-162 (LC 16)

Max Grav 1=171 (LC 22), 4=190 (LC 22),

bracing.

WEBS

REACTIONS (size)

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-7-9 to 5-7-9, Interior (1) 5-7-9 to 9-2-2 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

NUMBER PE-2001018807 May 10,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 **ANSITPTI Quality Criteria**, and **DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)



| | | | | | | | | | | FOR CONSTRUCTION | |
|---|---|---|---|--|---------------------|----------------|-------------------|--------------------|---|------------------|---|
| Job | Truss | 5 | Truss Type | | Qty | Ply | Roof - Osa | ge Lot 61 | AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165475639 LEE'S SUMMIT, MISSOURI | | ٦ |
| P240476-01 | V8 | | Valley | | 1 | 1 | lob Refere | nce (optional) | | | |
| Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, | | Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc ID:UFCl20yWf_Ot_KqXRC?XaSylfgt-RfC?PsB70Hq3NSgPqnL8w3ulTXbC | | | | | ndustries, Inc. T | | | | |
| | | | | ID:UFCl20yWf_Ot_Kq | XRC?XaSy | lfgt-RfC?PsB | 70Hq3NSgPqn | 1L8w3ulTXbGK | VrCDoi7J42JS?i | | r |
| | | | <u> </u> | 12-6-1 | 4 | | | | | | |
| | | | | | | | | 1.5x4 u | | | |
| | | | | | | | | 4 | | | |
| | | T | | | | | | P | \top | | |
| | | | | | | 1.5x4 ॥ | // | | | | |
| | | | | | 10 _ | 3 | | | | | |
| | | 5 | | 1.5x4 u 9 | | | | | 5 | | |
| | | 6-3-11 | | 2 8 | | | | | 6-3-11 | | |
| | | | | - | | | | | | | |
| | | | 6F | | | | | | | | |
| | | 4 | 1 | | | | | | | | |
| | | | | | | | | 5 | | | |
| | | | 3x4 ≠ | 7 | | 6 | | 1.5x4 I | | | |
| | | | | 1.5x4 II | | 1.5x4 ॥ | | | | | |
| Scale = 1:42.1 | | | | 12-6-1 | 4 | | | | | | |
| Loading | (psf) | Spacing | 2-0-0 | CSI | DEF | | in (loc) | l/defl L/d | PLATES | GRIP | — |
| TCLL (roof) | 25.0 25.0 | Plate Grip DOL Lumber DOL | 1.15 1.15 | TC 0. | 36 Vert | (LL) | n/a - | n/a 999 | MT20 | 244/190 | |
| Snow (Pf) TCDL | 10.0 | Rep Stress Incr | YES | WB 0. | 13 Vert 19 Horiz | . , | n/a - .00 5 | n/a 999 n/a n/a | | | |
| BCLL BCDL | 0.0 10.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | Weight: 48 lb | FT = 20% | |
| LUMBER | | • | | 7-16; Pr=25.0 psf (roc | | | | | | | _ |
| | 2x4 SP No.2 2x4 SP No.2 | | DOL=1.15); | l.15); Pf=25.0 psf (Lum Is=1.0; Rough Cat C; F | | | | | | | |
| | 2x3 SPF No.2 2x3 SPF No.2 | | / | =1.10 snow loads have been | considere | ed for this | | | | | |
| BRACING | Structural wood sh | neathing directly applied | | es continuous bottom o | chord bea | ring. | | | | | |
| | 6-0-0 oc purlins, e | except end verticals. | Gable studs This trues has | spaced at 4-0-0 oc. as been designed for a | 10.0 psf b | ottom | | | | | |
| | bracing. | 14, 5=12-6-14, 6=12-6 | chord live loa | ad nonconcurrent with are assumed to be SP | | | | | | | |
| , | 7=12-6-1 | 14 | capacity of 5 | 65 psi. hanical connection (by | others) of | f truss to | | | | | |
| | | _C 16), 6=-129 (LC 16) | | e capable of withstandi ift at joint 6 and 136 lb | | | | | | | |
| Μ | | LC 27), 5=210 (LC 22) | 10) This truss is | designed in accordance Residential Code sect | e with the | 2018 | | | | | |
| | (lb) - Maximum Co | LC 22), 7=405 (LC 22) mpression/Maximum | R802.10.2 a LOAD CASE(S) | nd referenced standard Standard | ANSI/TP | 41. | | | | | |
| TOP CHORD | | =-193/90, 3-4=-118/56, | | Clandara | | | | | | | |
| BOT CHORD | 4-5=-176/94 1-7=-2/4, 6-7=-2/4, | | | | | | | | | | |
| WEBS : NOTES | 3-6=-465/247, 2-7= | =-308/243 | | | | | | | | ADDA | |
| 1) Wind: ASCE | E 7-16; Vult=115mp | oh (3-second gust) CDL=6.0psf; h=35ft; | | | | | | | E OF M | MISSO | |
| Ke=1.00; Ca | at. II; Exp C; Enclos | sed; MWFRS (envelope | e) | | | | | Ē | ST SCOT | No. W | |
| Interior (1) 5- | 5-7-9 to 12-6-2 zone | (2E) 0-7-9 to 5-7-9, e; cantilever left and rig d forces & MWERS for | | | | | | ch. | SEVI | | |
| reactions she | C for members and nown; Lumber DOL= | d forces & MWFRS for =1.60 plate grip | | | | | | | 47 | Que in a | > |
| | | in the plane of the trus | | | | | | Rec | NUM | | |
| see Standar | rd Industry Gable E | nd (normal to the face), and Details as applicabl | le, | | | | | N. | PE-2001 | 018807 | |
| or consult qu | ualified building des | signer as per ANSI/TPI | 11. | | | | | | SSIONA | LENGIA | |
| | | | | | | | | | and and | | |
| | | | | | | | | | May | / 10,2024 | |

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314.434.1200 / MiTek-US.com

May 10,2024

