

RE: B240005 Lot 176 HT

Site Information:

Customer: Summit Homes Project Name: B240005 Lot/Block: 176 Model: Sy Address: 3232 SW Arbor Sound Dr City: Lee's Summit State: MC

Model: Sydney - Modern Prairie Subdivision: Hawthorn Ridge State: MO

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

Design Code: IRC2018/TPI2014 Wind Code: ASCE 7 - 16[Low Rise] Roof Load: 45.0 psf Design Program: MiTek 20/20 8.7 Wind Speed: 115 mph Floor Load: N/A psf

This package includes 107 individual, dated Truss Design Drawings and 0 Additional Drawings.

| No. | Seal# | Truss Name | Date | No. | Seal# | Truss Name | Date |
|-----|-----------|------------|----------|-----|-----------|------------|----------|
| 1 | 159955056 | A1 | 8/7/2023 | 21 | 159955076 | D1 | 8/7/2023 |
| • | | | | | | = - | |
| 2 | 159955057 | A2 | 8/7/2023 | 22 | 159955077 | D2 | 8/7/2023 |
| 3 | 159955058 | A3 | 8/7/2023 | 23 | 159955078 | D3 | 8/7/2023 |
| 4 | 159955059 | A4 | 8/7/2023 | 24 | 159955079 | D4 | 8/7/2023 |
| 5 | 159955060 | A5 | 8/7/2023 | 25 | 159955080 | E1 | 8/7/2023 |
| 6 | 159955061 | A6 | 8/7/2023 | 26 | 159955081 | E2 | 8/7/2023 |
| 7 | 159955062 | B1 | 8/7/2023 | 27 | 159955082 | E3 | 8/7/2023 |
| 8 | 159955063 | B2 | 8/7/2023 | 28 | 159955083 | E4 | 8/7/2023 |
| 9 | 159955064 | B3 | 8/7/2023 | 29 | 159955084 | E5 | 8/7/2023 |
| 10 | 159955065 | B4 | 8/7/2023 | 30 | 159955085 | G1 | 8/7/2023 |
| 11 | 159955066 | C1 | 8/7/2023 | 31 | 159955086 | G2 | 8/7/2023 |
| 12 | 159955067 | C2 | 8/7/2023 | 32 | 159955087 | G3 | 8/7/2023 |
| 13 | 159955068 | C3 | 8/7/2023 | 33 | 159955088 | G4 | 8/7/2023 |
| 14 | 159955069 | C4 | 8/7/2023 | 34 | 159955089 | G5 | 8/7/2023 |
| 15 | 159955070 | C5 | 8/7/2023 | 35 | 159955090 | G6 | 8/7/2023 |
| 16 | 159955071 | C6 | 8/7/2023 | 36 | 159955091 | G7 | 8/7/2023 |
| 17 | 159955072 | C7 | 8/7/2023 | 37 | 159955092 | G8 | 8/7/2023 |
| 18 | 159955073 | C8 | 8/7/2023 | 38 | 159955093 | G9 | 8/7/2023 |
| 19 | 159955074 | C9 | 8/7/2023 | 39 | 159955094 | G10 | 8/7/2023 |
| 20 | 159955075 | C10 | 8/7/2023 | 40 | 159955095 | H1 | 8/7/2023 |
| | | | | | | | |

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc under my direct supervision

based on the parameters provided by Wheeler - Waverly.

Truss Design Engineer's Name: Sevier, Scott

My license renewal date for the state of Missouri is December 31, 2025. Missouri COA: 001193

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



Sevier, Scott

MiTek, Inc. 16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200



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Subdivision: Hawthorn Ridge Stata: MO

| State: | MO |
|--------|----|
| | |

| No | Sool# | | Data | No | Sool# | Truce Nome | Data |
|-----------|--------------------|------------------|------------------|-----------|--------------------|-------------------|------------------|
| No. 41 | Seal# I59955096 | Truss Name H2 | Date 8/7/2023 | No. 85 | Seal# I59955140 | Truss Name J42 | Date 8/7/2023 |
| 41 | | H2 H3 | 8/7/2023 | | | J42 J43 | 8/7/2023 |
| | 159955097 | | | 86 | 159955141 | | |
| 43 | 159955098 | H4 | 8/7/2023 | 87 | 159955142 | J44 | 8/7/2023 |
| 44 | 159955099 | J1 | 8/7/2023 | 88 | 159955143 | J45 | 8/7/2023 |
| 45 | 159955100 | J2 | 8/7/2023 | 89 | 159955144 | J46 | 8/7/2023 |
| 46 | 159955101 | J3 | 8/7/2023 | 90 | 159955145 | J47 | 8/7/2023 |
| 47 | 159955102 | J4 | 8/7/2023 | 91 | 159955146 | J48 | 8/7/2023 |
| 48 | 159955103 | J5 | 8/7/2023 | 92 | 159955147 | LAY1 | 8/7/2023 |
| 49 | 159955104 | J6 | 8/7/2023 | 93 | 159955148 | LAY2 | 8/7/2023 |
| 50 | 159955105 | J7 | 8/7/2023 | 94 | 159955149 | LAY3 | 8/7/2023 |
| 51 | 159955106 | J8 | 8/7/2023 | 95 | 159955150 | LAY4 | 8/7/2023 |
| 52 | 159955107 | J9 | 8/7/2023 | 96 | 159955151 | LAY5 | 8/7/2023 |
| 53 | 159955108 | J10 | 8/7/2023 | 97 | 159955152 | LAY6 | 8/7/2023 |
| 54 | 159955109 | J11 | 8/7/2023 | 98 | 159955153 | R1 | 8/7/2023 |
| 55 | 159955110 | J12 | 8/7/2023 | 99 | 159955154 | V1 | 8/7/2023 |
| 56 | 159955111 | J13 | 8/7/2023 | 100 | 159955155 | V2 | 8/7/2023 |
| 57 | 159955112 | J14 | 8/7/2023 | 101 | 159955156 | V3 | 8/7/2023 |
| 58 | 159955113 | J15 | 8/7/2023 | 102 | 159955157 | V4 | 8/7/2023 |
| 59 | 159955114 | J16 | 8/7/2023 | 103 | 159955158 | V5 | 8/7/2023 |
| 60 | 159955115 | J17 | 8/7/2023 | 104 | 159955159 | V6 | 8/7/2023 |
| 61 | 159955116 | J18 | 8/7/2023 | 105 | 159955160 | V7 | 8/7/2023 |
| 62 | 159955117 | J19 | 8/7/2023 | 106 | 159955161 | V8 | 8/7/2023 |
| 63 | 159955118 | J20 | 8/7/2023 | 107 | 159955162 | V9 | 8/7/2023 |
| 64 | 159955119 | J21 | 8/7/2023 | | | | |
| 65 | 159955120 | J22 | 8/7/2023 | | | | |
| 66 | 159955121 | J23 | 8/7/2023 | | | | |
| 67 | 159955122 | J24 | 8/7/2023 | | | | |
| 68 | 159955123 | J25 | 8/7/2023 | | | | |
| 69 | 159955124 | J26 | 8/7/2023 | | | | |
| 70 | 159955125 | J27 | 8/7/2023 | | | | |
| 71 | 159955126 | J28 | 8/7/2023 | | | | |
| 72 | 159955127 | J29 | 8/7/2023 | | | | |
| 73 | 159955128 | J30 | 8/7/2023 | | | | |
| 74 | 159955129 | J31 | 8/7/2023 | | | | |
| 75 | 159955130 | J32 | 8/7/2023 | | | | |
| 76 | 159955131 | J33 | 8/7/2023 | | | | |
| 77 | 159955132 | J34 | 8/7/2023 | | | | |
| 78 | 159955133 | J35 | 8/7/2023 | | | | |
| 79 | 159955134 | J36 | 8/7/2023 | | | | |
| 80 | 159955135 | J37 | 8/7/2023 | | | | |
| 81 | 159955136 | J38 | 8/7/2023 | | | | |
| 82 | 159955137 | J39 | 8/7/2023 | | | | |
| 83 | 159955138 | J40 | 8/7/2023 | | | | |
| 84 | 159955139 | J41 | 8/7/2023 | | | | |
| | | | | | | | |

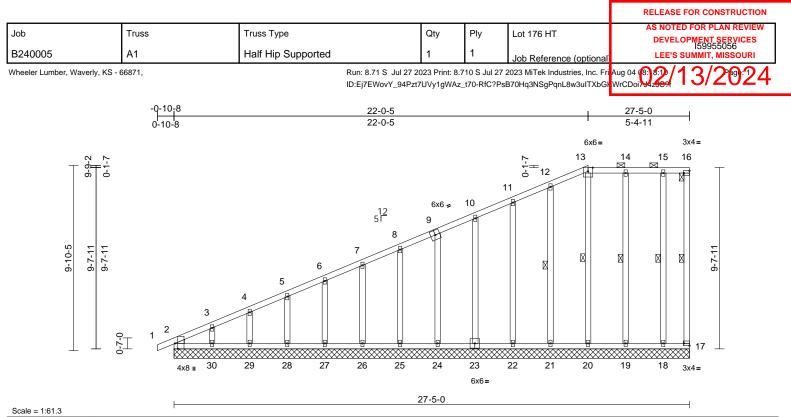
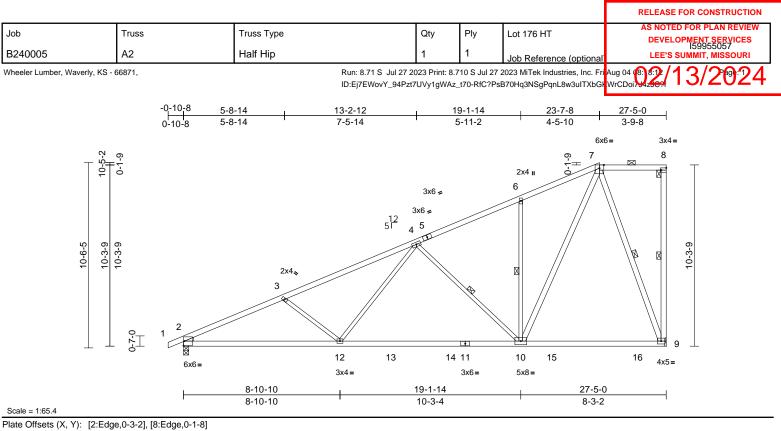


Plate Offsets (X, Y): [2:0-3-8,Edge], [16:Edge,0-1-8], [17:Edge,0-1-8]

| Loading TCLL (roof) TCDL BCLL | | (psf) 25.0 10.0 0.0* | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr | 2-0-0 1.15 1.15 YES | | CSI TC BC WB | 0.40 0.17 0.15 | DEFL Vert(LL) Vert(CT) Horz(CT) | in n/a n/a -0.01 | (loc) - - 17 | l/defl n/a n/a n/a | L/d 999 999 n/a | PLATES MT20 | GRIP 197/144 | |
|--|---|--|--|---------------------------------------|--|--|--|---|--------------------------------|-----------------------|-----------------------------|--------------------------|--|------------------------|--|
| BCDL | | 10.0 | Code | | 8/TPI2014 | Matrix-S | 0.15 | 11012(01) | -0.01 | 17 | n/a | n/a | Weight: 160 lb | FT = 10% | |
| LUMBER TOP CHORD BOT CHORD WEBS OTHERS WEDGE BRACING TOP CHORD BOT CHORD | Structura 6-0-0 oc 2-0-0 oc Rigid ceil bracing, | No.2 No.2 SPF No.2 al wood she purlins, ex purlins (6-0 ling directly Except: | athing directly applie cept end verticals, ar -0 max.): 13-16. applied or 10-0-0 oc | B d or nd | | 1-2=0/6, 2-3=-364/3 4-5=-291/28, 5-6=-2 7-8=-224/22, 8-10= 11-12=-169/78, 12- 13-14=-132/102, 14 15-16=-132/101, 16 2-30=-133/100, 29- 28-29=-133/100, 27 26-27=-133/100, 22 24-25=-133/100, 22 21-22=-133/101, 20 19-20=-133/101, 18 17-18=-133/101 | 266/25, -211/30 13=-15 -15=-1 30=-13 7-28=-13 7-28=-1 2-26=-1 2-24=-1 2-24=-1 | 9) * This truss has been designed for a live load of 20.0ps on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members. 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at join 17, 45 lb uplift at joint 20, 47 lb uplift at joint 21, 47 lb uplift at joint 22, 52 lb uplift at joint 23, 49 lb uplift at join 24, 41 lb uplift at joint 25, 49 lb uplift at joint 26, 47 lb uplift at joint 27, 48 lb uplift at joint 28, 47 lb uplift at joint 19 and 49 uplift at joint 18. 11) This truss is designed in accordance with the 2018 | | | | | | | |
| WEBS | 6-0-0 oc 1 Row at | | -24. 16-17, 13-20, 12-21 14-19, 15-18 | , W | NEBS 13-20=-127/72, 12-21=-148/72, International F | | | | | | | al Resid | esidential Code sections R502.11.1 and referenced standard ANSI/TPI 1. | | |
| REACTIONS | (size) | 2=27-5-0, 19=27-5-0 22=27-5-0 25=27-5-0 | 17=27-5-0, 18=27-5 0, 20=27-5-0, 21=27- 0, 23=27-5-0, 24=27- 0, 26=27-5-0, 27=27- 0, 29=27-5-0, 30=27- | 5-0, 5-0, 5-0, 5-0, N | 9-24=-139/73, 8-25=-130/65, 7-26=-142/73, 6-27=-140/71, 5-28=-140/72, 4-29=-140/71, 3-30=-140/111, 14-19=-155/66, 15-18=-119/124 OTES 12 Graphical purlin representation does not depi or the orientation of the purlin along the top a bottom chord. LOAD CASE(S) Standard | | | | | | | | | | |
| | | 19=-49 (L 21=-47 (L 23=-52 (L 25=-41 (L 27=-47 (L | C 5) C 5), 18=-49 (LC 4), C 5), 20=-45 (LC 5), C 8), 22=-47 (LC 8), C 8), 24=-49 (LC 8), C 8), 26=-49 (LC 8), C 8), 28=-48 (LC 8), C 8), 30=-87 (LC 8), | 2) | this design. Wind: ASCI Vasd=91mp II; Exp C; E cantilever le right expose Truss desig | I roof live loads have E 7-16; Vult=115mpl h; TCDL=6.0psf; BC nclosed; MWFRS (e ift and right exposed d; Lumber DOL=1.6 gned for wind loads i | n (3-sec CDL=6.0 nvelope I ; end v 60 plate in the p | cond gust) Opsf; h=25ft; e) exterior zoi vertical left ar grip DOL=1. lane of the tru | Cat. ne; id 60 uss | | | A | STATE OF M | AISSOUR | |
| | Max Grav | 2=212 (LC 18=155 (L 20=167 (L 22=177 (L 24=179 (L 26=182 (L | C 16), 17=41 (LC 1), LC 22), 19=196 (LC 2 LC 1), 21=188 (LC 1) LC 1), 23=190 (LC 1) LC 1), 25=170 (LC 1) LC 1), 27=179 (LC 1) LC 1), 29=179 (LC 1) | , 4) , 5) , 6) , 7) | 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. Provide adequate drainage to prevent water ponding. All plates are 2x4 MT20 unless otherwise indicated. Gable requires continuous bottom chord bearing. Gable studs spaced at 2-0-0 oc. | | | | | | ER SER D18807 | | | | |
| FORCES | (lb) - Max Tension | • | pression/Maximum | | chord live lo | ad nonconcurrent w | vith any | other live loa | ds. | | | | SIONA | L ENSAGE st 7,2023 | |

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 colleges 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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| Plate Offsets (| (X, Y): [2:Edge,0-3-2], | [8:Edge,0-1-8] | | | | | | | | | | |
|--|---|--|---|---|---|--|--------------------------------------|--------------------------------------|---------------------------------------|---------------------------------|-----------------------------------|------------------------------------|
| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 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/TPI2 | CSI TC BC WB 014 Matrix-S | 0.74 0.60 0.64 | DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL) | in -0.25 -0.44 0.05 0.08 | (loc) 10-12 10-12 9 2-12 | l/defl >999 >738 n/a >999 | L/d 360 240 n/a 240 | PLATES MT20 Weight: 123 lb | GRIP 197/144 FT = 10% |
| LUMBER TOP CHORD BOT CHORD WEBS WEDGE BRACING TOP CHORD BOT CHORD WEBS | 2x4 SPF 2100F 1.8E 2x3 SPF No.2 *Exce No.2 Left: 2x3 SPF No.2 Structural wood she 3-0-1 oc purlins, ex 2-0-0 oc purlins (6-0 Rigid ceiling directly bracing. | ept* 8-9,10-7,9-7:2x4 athing directly applie cept end verticals, a -0 max.): 7-8. | on ti 3-06 () SPF chor () Refe (7) Provide (7) Provide | s truss has been design e bottom chord in all are -00 tall by 2-00-00 wide d and any other member r to girder(s) for truss to ide mechanical connecti ing plate capable of with d 208 lb uplift at joint 2. truss is designed in acc national Residential Coc 2.10.2 and referenced st shical purlin representati e orientation of the purlir | eas where will fit betw rs, with BC truss conr ton (by oth standing 2 ordance w de sections andard AN on does no | a rectangle veen the botto DL = 10.0psf lections. ers) of truss t 06 lb uplift at ith the 2018 R502.11.1 a ISI/TPI 1. ot depict the s | o joint nd | | | | | |
| REACTIONS | | 9= Mechanical C 5) C 8), 9=-206 (LC 8) | LOAD C | om chord. ASE(S) Standard | - | - | | | | | | |
| FORCES | (lb) - Maximum Com Tension 1-2=0/6, 2-3=-2488/ 4-6=-1138/207, 6-7= 8-9=-123/79 | 397, 3-4=-2229/319, | | | | | | | | | | |
| BOT CHORD | | | | | | | | | | | OF | |
| WEDS | 4-10=-817/277, 6-10 7-10=-296/1386, 7-9 |)=-342/185, | | | | | | | | Å | TATE OF M | ASSO 200 |
| this design Wind: AS0 Vasd=91n II; Exp C; cantilever right expo Provide ad This truss | ed roof live loads have n. CE 7-16; Vult=115mph mph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed sed; Lumber DOL=1.6 dequate drainage to pr has been designed for load nonconcurrent wi | (3-second gust) DL=6.0psf; h=25ft; (ivelope) exterior zor ; end vertical left an 0 plate grip DOL=1.0 event water ponding r a 10.0 psf bottom | Cat. ie; d 60 j. | | | | | | | * | SCOT SEVI DE TOM PE-2001 | |

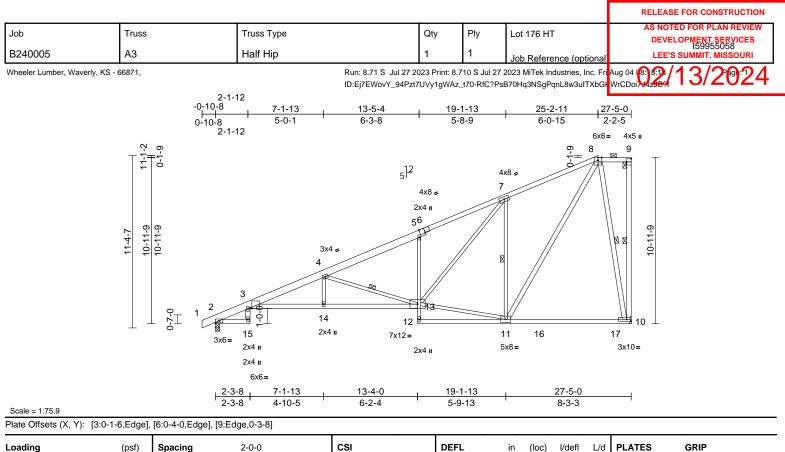
- Provide adequate drainage to prevent water ponding. 3)
- 4)
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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August 7,2023



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|---|--|-----------------------|--------|----------------|---------------------------------------|-----------|--------------|---------|-------|--------|-----|---|----------|
| 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 | 0.96 | Vert(LL) | -0.36 | 3-14 | >909 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | | BC | 0.69 | Vert(CT) | -0.63 | 3-14 | >518 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | | WB | 0.95 | Horz(CT) | 0.36 | 10 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC20 | 18/TPI2014 | Matrix-S | | Wind(LL) | 0.30 | 3-14 | >999 | 240 | Weight: 153 lb | FT = 10% |
| LUMBER | | | 3 | B) Provide ade | quate drainage to | prevent | water pondin | g. | | | | | |
| TOP CHORD | 2x4 SPF No.2 *Exce | ept* 1-6:2x6 SP 2400 |)F 4 | | as been designed | | | | | | | | |
| BOT CHORD | 2.0E 2x4 SPF No.2 *Exce | ont* 3-13·2v4 SPF 2 | 100F 5 | | ad nonconcurrent has been designe | | | | | | | | |
| DOT CHOILD | 1.8E, 5-12:2x3 SPF | | | | m chord in all area | | | 0001 | | | | | |
| WEBS | 2x3 SPF No.2 *Exce | | | | by 2-00-00 wide w ny other members | | | | | | | | |
| | 9-10,15-3,8-11,10-8 | 2x4 SPF No.2 | 6 | | ler(s) for truss to t | | | 1. | | | | | |
| BRACING | o , , , , , , , | | | | chanical connection | | | to | | | | | |
| TOP CHORD | Structural wood she | | eu, | | e capable of withs | | | | | | | | |
| | except end verticals (6-0-0 max.): 8-9. | , and 2-0-0 oc puriin | IS | | b uplift at joint 2. | anding 2 | | c joint | | | | | |
| BOT CHORD | Rigid ceiling directly | applied or 9-4-4 oc | 8 | | designed in acco | rdance w | ith the 2018 | | | | | | |
| BOTCHORD | bracing. | applied of 9-4-4 oc | | | Residential Code | | | and | | | | | |
| WEBS | | 9-10, 4-13, 7-11, 8- | 10 | R802.10.2 a | nd referenced sta | andard AN | ISI/TPI 1. | | | | | | |
| | | 10= Mechanical | 9 | | urlin representatio | | | size | | | | | |
| | Max Horiz 2=470 (L0 | | | | ation of the purlin | along the | e top and/or | | | | | | |
| | Max Uplift 2=-207 (L | , | ;) | bottom chore | | | | | | | | | |
| | Max Grav 2=1324 (L | <i>,,</i> | · . | OAD CASE(S) | Standard | | | | | | | | |
| FORCES | (lb) - Maximum Com Tension | pression/Maximum | | | | | | | | | | | |
| TOP CHORD | 1-2=0/12, 2-3=-871/ | 0, 3-4=-3439/567, | | | | | | | | | | | |
| | 4-5=-2051/337, 5-7= | -1994/441, | | | | | | | | | | | |
| | 7-8=-1089/318, 8-9= | -160/117, 9-10=-88 | /79 | | | | | | | | | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | ~ |
| BOT CHORD | 2-15=0/0, 3-14=-695 | | | | | | | | | | | STATE OF M | and |
| | 12-13=0/77, 5-13=-3 | 335/193, 11-12=-24/ | 52, | | | | | | | | | B.F. OF I | NISS OF |
| | 10-11=-127/228 | | | | | | | | | | 4 | 9.21 | N'SON |
| WEBS | 3-15=-4/91, 4-14=0/ | , | 4, | | | | | | | | B | SCOT | TM XXX |
| | 11-13=-149/920, 7-1 | , | | | | | | | | | R | SEVI | |
| | 7-11=-1145/407, 8-1 | 1=-350/1444, | | | | | | | | | 8 | SEVI | |
| | 8-10=-1145/247 | | | | | | | | | | h | | |
| NOTES | | | | | | | | | | | X | 1 the | X |
| Unbalance this design | ed roof live loads have | been considered to | r | | | | | | | - | | NUM | |
| 0 | CE 7-16; Vult=115mph | (3-second gust) | | | | | | | | | N' | PE-2001 | 018807 |
| | nph; TCDL=6.0psf; BC | | Cat. | | | | | | | | V | 15 | 18A |
| | Enclosed: MWERS (er | | | | | | | | | | 1 | 1 50 | IC'A |

Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

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August 7,2023

JONAL

| | | | | | | | | Г | RELEASE FOR CONSTRUCTION |
|-------------------------|----------------------------|------------|------------|-----------------|----------------------------------|----------|---|-------------|---|
| Job | Truss | | Truss Type | | Qty | Ply | Lot 176 HT | | AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 159955059 |
| B240005 | A4 | | Half Hip | | 1 | 1 | Job Reference (or | otional | LEE'S SUMMIT, MISSOURI |
| Wheeler Lumber, Waverly | v, KS - 66871, | | | | | | 2023 MiTek Industries, B70Hq3NSgPqnL8w3u | | |
| | | -0-10- | | 13-5-4 6-3-8 | <u>19-1</u> 5-8- | | <u>26-9-14</u> 7-8-1 | 27-5-0 | 2 |
| | 0 -1-9 -1-9 -1-9 | | | | 12 4x8 = ^{2x4} II | 5x8 7 | | 3x4= 8 9 | |
| | 12-0-7 11-7-9 11-7-9 | | | 3x4 = | 56 | | * | × | 9-7-11 |

14

2x4 II

| | | | 2x4 II | | | | 2x4 II | | 3x6= | | | | | | |
|-------------------|---------------------|----------------------|----------------|---|-----------|--------------|----------|----------|-------|-------|--------|-----|----------------|----------|--|
| | | | 2x4 II | | | | | | | | | | | | |
| | | | 6x6 | i= | | | | | | | | | | | |
| | | | 2-3-8 | 7-1-13 | | 13-4-0 | | 19-1-14 | | 27- | 5-0 | | 1 | | |
| Scale = 1:83.1 | | | 2-3-8 | 4-10-5 | I | 6-2-4 | 1 | 5-9-14 | 1 | 8- | 3-2 | | 1 | | |
| | | [0:0.4.0.E.l] [0:0 | 0.0.5.1 | [0] E data 0.4 | 01 [44 | 0 0 0 4 0 | | | | | | | | | |
| Plate Offsets (X, | Y): [3:0-1-6,Edge], | [6:0-4-0,⊨dge], [8:0 | J-2-0,⊨dge], | , [9:⊨age,0-1 | -8j, [11: | J-2-8,0-1-8] | | | | | | | | | |
| 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 | | тс | | 0.96 | Vert(LL) | -0.35 | 3-14 | >919 | 360 | MT20 | 197/144 | |
| TCDL | 10.0 | Lumber DOL | 1.15 | | BC | | 0.73 | Vert(CT) | -0.62 | 3-14 | >525 | 240 | | | |
| BCLL | 0.0* | Rep Stress Incr | YES | | WB | | 0.83 | Horz(CT) | 0.36 | 10 | n/a | n/a | | | |
| BCDL | 10.0 | Code | IRC2018 | 3/TPI2014 | Matr | ix-S | | Wind(LL) | 0.33 | 3-14 | >986 | 240 | Weight: 141 lb | FT = 10% | |
| | x4 SPF No.2 *Exce | pt* 1-6:2x6 SP 240 | 4) 0F 5) | This truss h chord live lo * This truss | oad non | concurrent | with any | | ads. | | | | | | |

12

7x12=

11

3x6=

16

| LOWIDER | | -, | This it as has been designed for a 10.0 psi bottom | |
|---------------|---|----|--|--|
| TOP CHORD | 2x4 SPF No.2 *Except* 1-6:2x6 SP 2400F | | chord live load nonconcurrent with any other live loads. | |
| | 2.0E | 5) | * This truss has been designed for a live load of 20.0psf | |
| BOT CHORD | 2x4 SPF No.2 *Except* 3-13:2x4 SPF 2100F | | on the bottom chord in all areas where a rectangle | |
| | 1.8E, 5-12:2x3 SPF No.2 | | 3-06-00 tall by 2-00-00 wide will fit between the bottom | |
| WEBS | 2x3 SPF No.2 *Except* 9-10,15-3,10-7:2x4 | | chord and any other members, with BCDL = 10.0psf. | |
| | SPF No.2 | 6) | Refer to girder(s) for truss to truss connections. | |
| BRACING | | 7) | Provide mechanical connection (by others) of truss to | |
| TOP CHORD | Structural wood sheathing directly applied, | | bearing plate capable of withstanding 317 lb uplift at joint | |
| | except end verticals, and 2-0-0 oc purlins | | 10 and 155 lb uplift at joint 2. | |
| | (6-0-0 max.): 8-9. | 8) | This truss is designed in accordance with the 2018 | |
| BOT CHORD | Rigid ceiling directly applied or 6-0-0 oc | | International Residential Code sections R502.11.1 and | |
| | bracing. | | R802.10.2 and referenced standard ANSI/TPI 1. | |
| WEBS | 1 Row at midpt 9-10, 4-13, 7-10 | 9) | Graphical purlin representation does not depict the size | |
| REACTIONS | (size) 2=0-3-8, 10= Mechanical | | or the orientation of the purlin along the top and/or | |
| | Max Horiz 2=470 (LC 8) | | bottom chord. | |
| | Max Uplift 2=-155 (LC 8), 10=-317 (LC 8) | LC | AD CASE(S) Standard | |
| | Max Grav 2=1329 (LC 2), 10=1305 (LC 2) | | | |
| FORCES | (lb) - Maximum Compression/Maximum | | | |
| | Tension | | | |
| TOP CHORD | 1-2=0/12, 2-3=-708/0, 3-4=-3463/508, | | | |
| | 4-5=-2058/232, 5-7=-1982/322, 7-8=-140/46, | | | |
| | 8-9=-44/19, 9-10=-244/113 | | | |
| BOT CHORD | 2-15=0/0, 3-14=-893/3326, 13-14=-893/3326, | | | |
| | 12-13=0/77, 5-13=-277/161, 11-12=-27/48, | | | |
| | 10-11=-243/965 | | | |
| WEBS | 3-15=-8/91, 4-14=0/268, 4-13=-1608/446, | | | |
| | 11-13=-220/951, 7-13=-366/1340, | | | E Contraction de la contractica de la contractic |
| | 7-11=0/303, 7-10=-1354/341 | | | . 6 |
| NOTES | | | | 8 |
| | ed roof live loads have been considered for | | | 192 |
| , this design |). | | | |
| 2) Wind: ASC | CE 7-16; Vult=115mph (3-second gust) | | | V) |
| | | | | |

0-7-0

Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.

II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60 3) Provide adequate drainage to prevent water ponding.

3x6=

15

2x4 u



10

3x6=

16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com

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| | | | | | | RELEASE FOR CONSTRUCTION |
|----------------------------|-------------------------------------|---|--------------------------|--------------------------|---|---|
| Job | Truss | Truss Type | Qty | Ply | Lot 176 HT | AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 159955060 |
| B240005 | A5 | Monopitch | 4 | 1 | Job Reference (optional) | |
| Wheeler Lumber, Waverly, K | | ID:Ej7EWovY_94Pzt | | | 2023 MiTek Industries, Inc. Fri B70Hq3NSgPqnL8w3uITXbGł | |
| | 2-1-1 -0-10-8 0-10-8 2-1-1 | 7-1-13 13-5-4 5-0-1 6-3-8 | <u>19-1-13</u> 5-8-9 | 3 | 27-5-0 8-3-3 3x | ô II |
| | | 3x4 = 4 $3x4 = 4$ $3x4 = 4$ 4 $3x4 = 4$ 4 $3x4 = 4$ 4 $3x4 = 7x12 = 2x4$ $2x4 = 7x12 = 2x4$ | 8 = | 5x8 = 7 10 3x6= | 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | 9 -1 -0-1 |
| | | 2x4 II | | | | |
| | 2-3- | | <u>19-1-13</u> 5-9-13 | | 27-5-0 | |

| | 2-3-8 | 7-1-13 | 13-4-0 | 19-1-13 | 27-5-0 |
|----------------|-------|--------|--------|---------|--------|
| | 2-3-8 | 4-10-5 | 6-2-4 | 5-9-13 | 8-3-3 |
| Scale = 1:80.4 | | | | | |

Plate Offsets (X, Y): [3:0-1-6,Edge], [6:0-4-0,Edge], [10:0-2-8,0-1-8]

| | (, .). [| [e.e. e,_e.ge], [.e. | | | | | | | | | | | |
|-------------|--|------------------------|----------------|---------------|--------------------------------------|-------------|--------------|----------|-------|--------|------------|----------------|--------------|
| 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 | | тс | 0.96 | Vert(LL) | -0.35 | 3-13 | >919 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | | BC | 0.73 | Vert(CT) | -0.62 | 3-13 | >525 | 240 | - | |
| BCLL | 0.0* | Rep Stress Incr | YES | | WB | 0.84 | Horz(CT) | 0.36 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/ | FPI2014 | Matrix-S | | Wind(LL) | 0.33 | 3-13 | >985 | 240 | Weight: 142 lb | FT = 10% |
| | | | | | | - | () | | | | | Ű | |
| LUMBER | | | | | nas been designe | | | .0psf | | | | | |
| TOP CHORD | | ept* 1-6:2x6 SP 2400 | | | n chord in all are | | • | | | | | | |
| | 2.0E | **** | | | by 2-00-00 wide v by other member | | | | | | | | |
| BOT CHORD | | | | | er(s) for truss to | | | ы. | | | | | |
| WEBS | 1.8E, 5-11:2x3 SPF 2x3 SPF No.2 *Exce | | , | | hanical connecti | | | to | | | | | |
| WEDS | No.2 | ept 6-9,14-3,9-7.284 | | | capable of with | | | | | | | | |
| BRACING | 110.2 | | | | uplift at joint 2. | otariang c | | it joint | | | | | |
| TOP CHORD | Structural wood she | athing directly applie | | | designed in acco | ordance w | ith the 2018 | | | | | | |
| | except end verticals | 0 7 11 | 5 u , / | International | Residential Cod | le sections | R502.11.1 | and | | | | | |
| BOT CHORD | | | I | R802.10.2 a | nd referenced sta | andard AN | ISI/TPI 1. | | | | | | |
| | bracing. | | LOA | D CASE(S) | Standard | | | | | | | | |
| WEBS | 1 Row at midpt | 8-9, 4-12, 7-9 | | | | | | | | | | | |
| REACTIONS | (size) 2=0-3-8, 9 | 9= Mechanical | | | | | | | | | | | |
| | Max Horiz 2=481 (L0 | C 8) | | | | | | | | | | | |
| | Max Uplift 2=-150 (L | .C 8), 9=-329 (LC 8) | | | | | | | | | | | |
| | Max Grav 2=1329 (I | LC 2), 9=1305 (LC 2 | :) | | | | | | | | | | |
| FORCES | (lb) - Maximum Corr | pression/Maximum | | | | | | | | | | | |
| | Tension | | | | | | | | | | | | |
| TOP CHORD | | | | | | | | | | | | | |
| | 4-5=-2057/220, 5-7= | -1981/309, 7-8=-14 | 7/81, | | | | | | | | | | |
| | 8-9=-241/124 | | | | | | | | | | | | |
| BOT CHORD | , | , | , | | | | | | | | | | The |
| | 11-12=0/77, 5-12=-2 9-10=-245/967 | 2/3/159, 10-11=-2// | 47, | | | | | | | | | OFA | ALC D |
| WEBS | 3-14=-8/91, 4-13=0/ | 268 4-12-1610/44 | 7 | | | | | | | | | THE OF M | W Scin |
| WEBO | 10-12=-221/953, 7-1 | | ,, | | | | | | | | 6 | AN | N.S. |
| | 7-10=0/304, 7-9=-13 | | | | | | | | | | B | SCOT | M. YZY |
| NOTES | , | | | | | | | | | | R | SEVI | ER \ Y |
| | CE 7-16; Vult=115mph | (3-second aust) | | | | | | | | - Š | 12 * | | |
| | nph; TCDL=6.0psf; BC | | Cat. | | | | | | | | The second | 1 | ····Xa la X |
| II; Exp C; | Enclosed; MWFRS (er | nvelope) exterior zor | ne; | | | | | | | _ | | toThe | Server 1 |
| | left and right exposed | | | | | | | | | - | K | | |
| | Lumber DOL=1.60 pla | | | | | | | | | | N. | PE-2001 | 01880/ 08810 |
| | has been designed fo | | | | | | | | | | Y | 1 Pa | 1SA |
| chord live | load nonconcurrent wi | ith any other live loa | ds. | | | | | | | | 0 | SION | TENS |
| | | | | | | | | | | | | C'SSIONA | L |
| | | | | | | | | | | | | and a | |
| | | | | | | | | | | | | A | at 7 2022 |

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August 7,2023

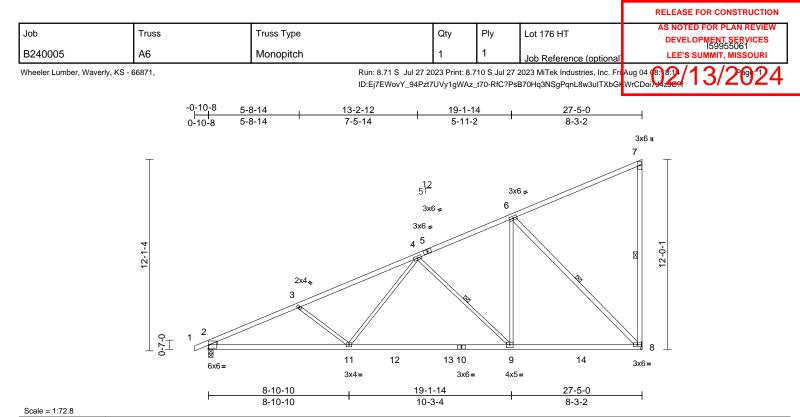


Plate Offsets (X, Y): [2:Edge,0-3-2]

| Loading | (psf) | Spacing | 2-0-0 | | CSI | 0.00 | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|--|--------------|----------------------|----------------|--------------|--------------|------------|----------------|---|
| TCLL (roof) TCDL | 25.0 10.0 | Plate Grip DOL Lumber DOL | 1.15 1.15 | | TC BC | 0.82 0.59 | Vert(LL) Vert(CT) | -0.26 -0.45 | 9-11 9-11 | >999 >721 | 360 240 | MT20 | 197/144 |
| BCLL | 0.0* | Rep Stress Incr | YES | | WB | 0.59 | Horz(CT) | -0.45 | 9-11 | >/21 n/a | 240 n/a | | |
| BCDL | 10.0 | Code | IRC2018/ | TDI2014 | Matrix-S | 0.07 | Wind(LL) | 0.08 | 9-11 | >999 | 240 | Weight: 115 lb | ET - 10% |
| BCDL | 10.0 | Code | 1KC2010/ | 1712014 | Wattrx-5 | | WING(LL) | 0.08 | 9-11 | >999 | 240 | weight. 115 lb | FT = 1076 |
| LUMBER TOP CHORD | 2x4 SPF No.2 | | | | hanical connection capable of withst | | | | | | | | |
| | | : | | 01 | uplift at joint 2. | j · | | , | | | | | |
| | | | No.2 6) | This truss is | designed in accord | dance w | ith the 2018 | | | | | | |
| | | , | | International | Residential Code | sections | s R502.11.1 a | ind | | | | | |
| WEDGE | Left: 2x3 SPF No.2 | | | R802.10.2 a | nd referenced stan | ndard Al | NSI/TPI 1. | | | | | | |
| BRACING | | | LOA | AD CASE(S) | Standard | | | | | | | | |
| TOP CHORD | Structural wood shea | athing directly applie | ed or | | | | | | | | | | |
| | 2-8-1 oc purlins, exe | | | | | | | | | | | | |
| BOT CHORD | 0 0 7 | applied or 9-7-10 or | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | , , | | | | | | | | | | | |
| | () | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | ` | | | | | | | | | | |
| | ` | ,, (, |) | | | | | | | | | | |
| FORCES | | pression/Maximum | | | | | | | | | | | |
| | | 266 2 1- 2220/101 | | | | | | | | | | | |
| TOF CHORD | | | | | | | | | | | | | |
| BOT CHORD | , | , | .0 | | | | | | | | | | |
| 201 0110112 | 8-9=-239/1001 | | | | | | | | | | | | |
| WEBS | 3-11=-407/259, 4-11 | =-51/728, 4-9=-766/ | /256, | | | | | | | | | | ~ |
| | 6-9=-56/969, 6-8=-1 | 412/336 | | | | | | | | | | and | all |
| NOTES | | | | | | | | | | | | E.F. OF M | AISS D |
| 1) Wind: ASC | CE 7-16; Vult=115mph | (3-second gust) | | | | | | | | | 4 | 2 M | NS |
| | nph; TCDL=6.0psf; BC | | | | | | | | | | H | SCOTT | M NR |
| | | | | | | | | | | | | | |
| | 0 1 | , | | | | | | | | | 8 + | | ··· \ ↓ X |
| BRACING TOP CHORD BOT CHORD WEBS REACTIONS FORCES TOP CHORD BOT CHORD WEBS NOTES 1) Wind: ASC Vasd=91m II; Exp C; E cantilever | Structural wood shea 2-8-1 oc purlins, exc Rigid ceiling directly bracing. 1 Row at midpt (size) 2=0-3-8, 8 Max Horiz 2=478 (LC Max Uplift 2=-150 (L Max Grav 2=1355 (L (lb) - Maximum Com Tension 1-2=0/6, 2-3=-2503/2 4-6=-1143/65, 6-7=- 2-11=-656/2227, 9-1 8-9=-239/1001 3-11=-407/259, 4-11 6-9=-56/969, 6-8=-1- CE 7-16; Vult=115mph ph; TCDL=6.0psf; BC | athing directly applie cept end verticals. applied or 9-7-10 oc 7-8, 4-9, 6-8 3= Mechanical C 8), 8=-329 (LC 8), C 2), 8=1330 (LC 2), pression/Maximum 266, 3-4=-2238/181, 144/83, 7-8=-245/12 1=-422/1549, =-51/728, 4-9=-766/ 412/336 (3-second gust) DL=6.0psf; h=25ff; C welope) exterior zon ; end vertical left | No.2 6) LOA ed or c /256, Cat. | This truss is International R802.10.2 a | designed in accord Residential Code nd referenced stan | sections | s R502.11.1 a | Ind | | | | S SCOT | |

exposed; Lumber DOL=1.60 plate grip DOL=1.60 2) This truss has been designed for a 10.0 psf bottom

chord live load nonconcurrent with any other live loads.
* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom

chord and any other members, with BCDL = 10.0psf.4) Refer to girder(s) for truss to truss connections.

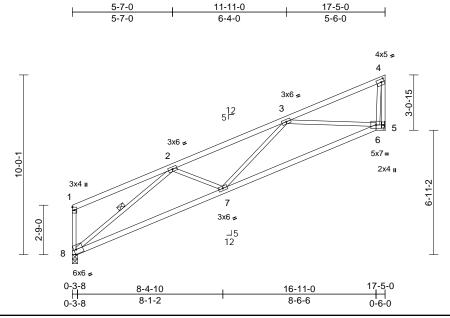
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| | | | | | | RELEASE FOR CONSTRUCTION |
|----------------------------|------------|------------|----------------------------------|--------------|---------------------------------|-----------------------------------|
| Job | Truss | Truss Type | Qty | Plv | Lot 176 HT | AS NOTED FOR PLAN REVIEW |
| 005 | 11000 | | Gity | , | Lot I/ O III | DEVELOPMENT SERVICES 159955062 |
| B240005 | B1 | Monopitch | 7 | 1 | Job Reference (optional | |
| Wheeler Lumber, Waverly, k | S - 66871, | Ru | ın: 8.71 S Jul 27 2023 Print: 8. | 710 S Jul 27 | 2023 MiTek Industries, Inc. Fri | Aug 04 (8) \$9 / 1 3 / 2 @ 9 / 1 |

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3uITXbGrWrCDoi794z694 1 3/269124



Scale = 1:64.2

Plate Offsets (X, Y): [4:0-1-14,0-2-0], [8:0-1-8,Edge]

| 1 10 | | (,, , ,). [4.0-1-14,0-2-0 |], [0.0-1-0,∟uge] | | | | | | | | | | |
|----------|---|---|---|----------------------------------|--|---------------------------------------|--|-------|-------|--------|-------|---------------|------------|
| Lo | ading | (psf) | Spacing | 2-0-0 | csi | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
| тс | LL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.41 | Vert(LL) | -0.13 | 6-7 | >999 | 360 | MT20 | 197/144 |
| TC | DL | 10.0 | Lumber DOL | 1.15 | BC | 0.70 | Vert(CT) | -0.29 | 6-7 | >713 | 240 | | |
| BC | LL | 0.0* | Rep Stress Incr | YES | WB | 0.78 | Horz(CT) | 0.05 | 5 | n/a | n/a | | |
| BC | DL | 10.0 | Code | IRC2018/TPI2014 | Matrix-S | | Wind(LL) | 0.05 | 6-7 | >999 | 240 | Weight: 65 lb | FT = 20% |
| TO BO | MBER P CHORD T CHORD BS | | | using A designe 7) Provide | at joint(s) 8 considers NSI/TPI 1 angle to grai r should verify capacity mechanical connectio | in formula y of beari n (by oth | a. Building ing surface. ers) of truss t | 0 | | | | | |
| | ACING P CHORD | Structural wood sheat 4-4-9 oc purlins, exe | | ed or 5. | plate capable of withs ss is designed in accor | 0 | | oint | | | | | |
| | T CHORD | Rigid ceiling directly bracing. | applied or 10-0-0 or | R802.10 | ional Residential Code).2 and referenced star | | | ind | | | | | |
| | BS | | 2-8 | LOAD CAS | E(S) Standard | | | | | | | | |
| KE | ACTIONS | (size) 5= Mecha Max Horiz 8=231 (LC Max Uplift 5=-89 (LC Max Grav 5=774 (LC | 8) | | | | | | | | | | |
| FO | RCES | (lb) - Maximum Com Tension | pression/Maximum | | | | | | | | | | |
| то | P CHORD | | | 15, | | | | | | | | | |
| | T CHORD BS | , | =-227/1302, 5-6=-28, =0/254, 3-7=0/378, | /28 | | | | | | | | | |
| NC | TES | | | | | | | | | | | | |
| 1) | Vasd=91n II; Exp C; and right e | CE 7-16; Vult=115mph mph; TCDL=6.0psf; BC Enclosed; MWFRS (en exposed ; end vertical I | DL=6.0psf; h=25ft; (nvelope); cantilever l left and right expose | left | | | | | | | A | STATE OF I | MISSOL |
| | | OL=1.60 plate grip DO | | | | | | | | | A | SCOT | TM. CN |
| 2) | | s is not designed to sup | | | | | | | | | 4 | SEV | IER \ Y |
| 3) | | for use where aesthetic has been designed for | | n. | | | | | | | 8 | | · \★₩ |
| 3) | | load nonconcurrent wi | | ds | | | | | | | NR | 4 | |
| 4) | | ss has been designed for | | | | | | | | _ | X | Cott | Hermon |
| ., | | ttom chord in all areas | | | | | | | | | - Kry | BI NUM | |
| | | all by 2-00-00 wide will i | | om | | | | | | | N. | OX PE-2001 | 01880/ 201 |

3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

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

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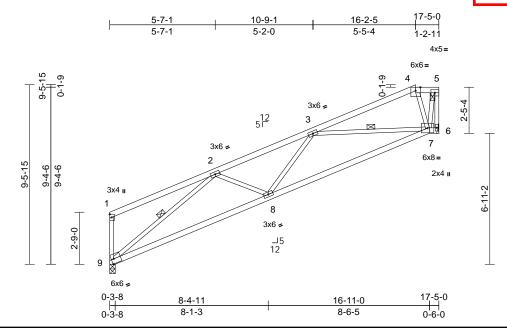


August 7,2023

SSIONAL EN

| | | | | | | RELEASE FOR CONSTRUCTION |
|---------|-------|------------|-----|-----|-------------------------|---|
| Job | Truss | Truss Type | Qty | Ply | Lot 176 HT | AS NOTED FOR PLAN REVIEW |
| B240005 | B2 | Half Hip | 1 | 1 | Job Reference (optional | DEVELOPMENT SERVICES 159955063 LEE'S SUMMIT, MISSOURI |
| | | | | | | 00/40/0004 |

Run: 8.71 S Jul 27 2023 Print: 8.710 S Jul 27 2023 MiTek Industries, Inc. Fri Aug 04 8 57/1 3/29:24 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3uITXbGt WrCDoi 942694



Scale = 1:61

| Plate Offsets | (X, | Y): | [9:0-1-8,Edge] |
|---------------|-----|-----|----------------|
|---------------|-----|-----|----------------|

| - | | | | | | | | | | | | | |
|--|--|--|---|--|-----------------------------------|--|--|--------------------------------------|---------------------------------|---------------------------------------|---------------------------------|---------------------------------|------------------------------------|
| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 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 IRC20 | 18/TPI2014 | CSI TC BC WB Matrix-S | 0.34 0.69 0.77 | DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL) | in -0.13 -0.28 0.05 0.05 | (loc) 7-8 7-8 6 7-8 | l/defl >999 >727 n/a >999 | L/d 360 240 n/a 240 | PLATES MT20 Weight: 66 lb | GRIP 197/144 FT = 20% |
| FORCES (Ib) - Max FORCES (Ib) - 100 FORCES (Ib) - 100 FORCES (Ib) - 100 FORCES (Ib) - Ma Tension TOP CHORD 1-9=-190 3-4=-322 BOT CHORD 8-9=-275 WEBS 2-9=-157 | No.2 No.2 al wood she purlins, ex purlins (6-C ling directly a midpt 6= Mecha 9=211 (L0 6=-774 (LC 6=774 (LC kimum Com 0/45, 1-2=-1 7/23, 4-5=-1 7/1311, 7-8= 4/129, 2-8= | , | 7 ed or 8 nd 9 c 9 1 1 5, 1 1 5, 1 2 1 1 1 1 2 1 2 1 | on the bottor 3-06-00 tall II chord and an Refer to gird Bearing at jc using ANSI/ designer sho Provide mec bearing plate 6. This truss is International R802.10.2 a Graphical put | | eas where will fit betw s. truss conr s parallel t ain formula ity of beari on (by oth standing 7 ordance w le sections andard AN on does no | a rectangle veen the bot o grain value a. Building ng surface. ers) of truss 4 lb uplift at ith the 2018 R502.11.1 i SI/TPI 1. ot depict the | tom e to joint and | | | | | |
| NOTES Unbalanced roof live this design. Wind: ASCE 7-16; V Vasd=91mph; TCDL II; Exp C; Enclosed; I and right exposed; e Lumber DOL=1.60 p This trunc is not dop | ult=115mph =6.0psf; BC WWFRS (er nd vertical ate grip DC | (3-second gust) IDL=6.0psf; h=25ft; (nvelope); cantilever l left and right expose IL=1.60 | Cat. eft d; | | | | | | | 1 | | STATE OF SCOT | MISSOLA T M. HER |

- This truss is not designed to support a ceiling and is not intended for use where aesthetics are a consideration.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

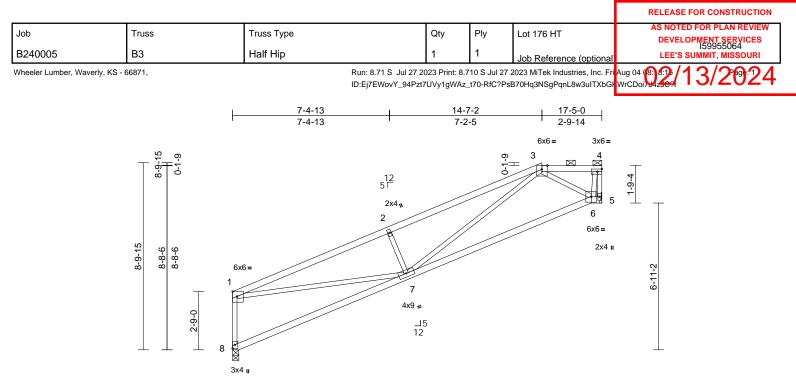
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/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) MiTek

August 7,2023

PE-200101880

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| 0-3-8 | 8-2-5 | 16-11-0 | 17-5-0 |
|-------|---------|---------|--------|
| 0-3-8 | 7-10-13 | 8-8-11 | 0-6-0 |

Scale = 1:54.3 Plate Offsets (X, Y): [1:Edge.0-2-12]

| Plate Offsets (| (X, Y): [1:Edge,0-2-12 | 2] | | | - | | | | | | | - | |
|--|---|--|---|---|-----------------------------------|---|--|--------------------------------------|---------------------------------|---------------------------------------|---------------------------------|---|------------------------------------|
| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 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 IRC20 | 18/TPI2014 | CSI TC BC WB Matrix-S | 0.77 0.59 0.54 | DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL) | in -0.14 -0.32 0.02 0.09 | (loc) 6-7 6-7 5 6-7 | l/defl >999 >653 n/a >999 | L/d 360 240 n/a 240 | PLATES MT20 Weight: 64 lb | GRIP 197/144 FT = 20% |
| FORCES TOP CHORD BOT CHORD WEBS | 2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 Structural wood she 2-2-0 oc purlins, ex 2-0-0 oc purlins, (6-0 Rigid ceiling directly bracing. (size) 5= Mecha Max Horiz 8=239 (LC Max Uplift 5=-162 (L Max Grav 5=774 (LC (lb) - Maximum Com Tension 1-8=-726/202, 1-2=- 2-3=-1629/437, 3-4= 7-8=-246/118, 6-7=- 1-7=-313/1560, 2-7= 3-6=-591/238, 4-6=- | cept end verticals, al -0 max.): 3-4. applied or 10-0-0 oc anical, 8=0-3-8 C 5) C 8), 8=-79 (LC 8) C 1), 8=774 (LC 1) apression/Maximum 1825/405, =-238/37, 4-5=-857/7 246/821, 5-6=-18/23 =-524/276, 3-7=-266/ | sed or nd 1 c 1 y g g | Bearing at jc using ANSI/ designer sho Provide mec bearing platt 8 and 162 lb This truss is Internationa R802.10.2 a Graphical pu | | parallel in formul y of bear on (by oth tanding 7 rdance w sections indard AN n does no | to grain value a. Building ing surface. ers) of truss 79 lb uplift at ith the 2018 \$ R502.11.1 a NSI/TPI 1. ot depict the | to joint and | | | | | |
| this design Wind: ASC Vasd=91m II; Exp C; I cantilever right exposion This truss intended fet Provide action This truss | ed roof live loads have n. CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed sed; Lumber DOL=1.6 is not designed to sup or use where aesthetic dequate drainage to pr has been designed for load nonconcurrent wi | (3-second gust) iDL=6.0psf; h=25ft; C ivelope) exterior zom ; end vertical left and 0 plate grip DOL=1.6 iport a ceiling and is is are a consideratio event water ponding r a 10.0 psf bottom | Cat. he; d 50 not n. J. | | | | | | | | | STATE OF SCOT SEV NUM PE-2001 | Berry A |

 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

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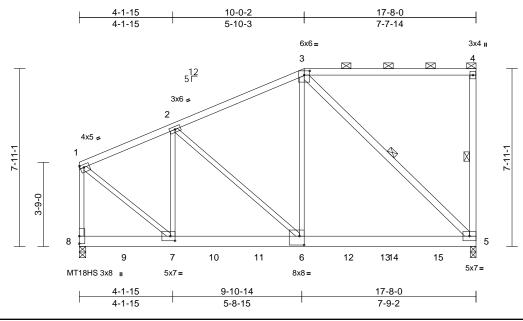


SSIONAL EN



| | | | | | | RELEASE FOR CONSTRUCTION |
|---------|-------|-----------------|-----|-----|-------------------------|-----------------------------------|
| Job | Truss | Truss Type | Qty | Plv | Lot 176 HT | AS NOTED FOR PLAN REVIEW |
| | | | | | | DEVELOPMENT SERVICES 159955065 |
| B240005 | B4 | Half Hip Girder | 1 | 2 | Job Reference (optional | LEE'S SUMMIT, MISSOURI |
| | | | | | | |

Run: 8.71 S Jul 27 2023 Print: 8.710 S Jul 27 2023 MiTek Industries, Inc. Fri Aug 04 (6:) 6:36 / 1 3/2:00:24 ID:Ej7EWovY_94Pzt7UVy1gWaz_t70-RfC?PsB70Hq3NSgPqnL8w3uITXbGi WrCDoi7642664



Scale = 1:51.3

Plate Offsets (X, Y): [1:0-2-0,0-1-8], [3:0-3-0,0-2-4], [6:0-2-8,0-4-12], [7:0-2-8,0-2-8]

| 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 0.4 | () | -0.15 | 5-6 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC 0.7 | | -0.27 | 5-6 | >765 | 240 | MT18HS | 197/144 |
| BCLL | 0.0* | Rep Stress Incr | NO | WB 0.6 | Horz(CT) | 0.02 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-S | Wind(LL) | 0.09 | 5-6 | >999 | 240 | Weight: 190 lb | FT = 20% |
| LUMBER | | | 3) Wind: ASCE | 7-16; Vult=115mph (3-s | econd aust) | | C | oncentra | ted Lo | ads (lb) | |
| TOP CHORD | 2x4 SPF No.2 | | | h; TCDL=6.0psf; BCDL= | | Cat. | - | | | | =-667 (B), 10=-667 |
| BOT CHORD | 2x6 SPF 1650F 1.4E | = | | closed; MWFRS (envelo | | | | | | | 14=-667 (B), 15=-667 |
| WEBS | 2x3 SPF No.2 *Exce | | No.2 cantilever le | t and right exposed ; en | vertical left a | nd | | (B) | (| // (// | |
| | | | | d; Lumber DOL=1.60 pla | te grip DOL=1 | .60 | | . , | | | |
| BRACING | | | | quate drainage to prever | | | | | | | |
| TOP CHORD | Structural wood she | athing directly applie | | e MT20 plates unless oth | | | | | | | |
| | | cept end verticals, ar | d 6) This truss ha | as been designed for a 1 | | | | | | | |
| | 2-0-0 oc purlins (6-0 | | chord live lo | ad nonconcurrent with a | | | | | | | |
| BOT CHORD | Rigid ceiling directly | applied or 10-0-0 oc | | has been designed for a | | .0psf | | | | | |
| | bracing. | | | n chord in all areas whe | | 4.0.00 | | | | | |
| WEBS | 1 Row at midpt | 4-5, 3-5 | | by 2-00-00 wide will fit by other members, with | | | | | | | |
| REACTIONS | | | | hanical connection (by c | | | | | | | |
| | Max Horiz 8=311 (LC | , | | e at joint(s) 5. | | 10 | | | | | |
| | Max Uplift 5=-416 (L | | 9) Provide med | hanical connection (by c | thers) of truss | to | | | | | |
| | Max Grav 5=3512 (L | _C 1), 8=3392 (LC 1) | | capable of withstandin | | | | | | | |
| FORCES | (lb) - Maximum Com | pression/Maximum | | uplift at joint 8. | | | | | | | |
| | Tension | | | designed in accordance | with the 2018 | | | | | | |
| TOP CHORD | 1-2=-2620/256, 2-3= | | | Residential Code section | | and | | | | | |
| | 4-5=-259/111, 1-8=- | | | nd referenced standard | | | | | | | |
| BOT CHORD WEBS | 7-8=-285/75, 6-7=-3 | 99/2378, 5-6=-338/2. 35/123, 3-6=-214/280 | ri) Orapinoar pe | Irlin representation does | | size | | | | | |
| WEDS | 3-5=-3238/373, 1-7= | | bottom chore | ation of the purlin along | ne top and/or | | | | | | |
| NOTES | 0.0-0200/010, 1-1- | - 201/0011 | | other connection device | (s) shall be | | | | | SIL | and |
| | to be connected toget | thor with 10d | | ficient to support concer | | 667 | | | | F OF | MISCO |
| |) nails as follows: | | | 52 lb up at 9-7-3, 667 l | | | | | | TATE OF | |
| | s connected as follows | | | 67 lb down and 58 lb up | | | | | A | N | - Nest |
| | row at 0-9-0 oc. | 5. 2A+ 110W at 0 5 t | | B lb up at 15-7-3, 667 lb | | | | | H | | I MI. VY W |
| | ords connected as follo | ows: 2x6 - 2 rows | | 67 lb down and 58 lb up | | | | | 81 | / SEV | IER \ Y |
| | at 0-9-0 oc. | | | 58 lb up at 21-7-3, and | | | | | R A | | |
| Web conne | ected as follows: 2x3 - | 1 row at 0-9-0 oc, 2 | | 7-3 on bottom chord. Th | | | | | 820 | | · h · h |
| 1 row at 0- | | | | ection device(s) is the r | sponsibility of | | | | VA. | COUR | - Mar |
| | re considered equally | | others. | | | | | • | WY | PE-2001 | |
| | oted as front (F) or ba | | | | | | | | N | FE-2001 | IN ISON SA |
| | ection. Ply to ply conr | | | of Live (balanced): Lumb | er Increase=1 | .15, | | | Y | 100 | IN B |
| | o distribute only loads | noted as (F) or (B), | Plate Incre | | | | | | | S'SIONA | TENA |
| uniess othe | erwise indicated. | | Uniform Lo | | | | | | | QUIVE | |
| | | | vert: 1-3 | =-70, 3-4=-70, 5-8=-20 | | | | | | and and | 101 7 0000 |

August 7,2023

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| | | | | | | | RELEAS | | CTION |
|----------------------|------------------|-----------------------------|---|--------|----------------------|---|------------------------------------|---|--------|
| Job | Truss | Truss Type | | Qty | Ply | Lot 176 HT | | ED FOR PLAN RE LOPMENT SERVIC 159955066 | |
| B240005 | C1 | HALF HIP GIR | RDER | 1 | 2 | Job Reference (option | | 159955066 S SUMMIT, MISSO | URI |
| Wheeler Lumber, Wave | rly, KS - 66871, | | | | | 2023 MiTek Industries, Inc. B70Hq3NSgPqnL8w3uITX | | 13/20 | 24 |
| | -1-10 1-10- | | <u>6-8-1</u> 4-6-5 | | <u>11-4-</u> 4-8- | | <u>16-0-0</u> 4-8-0 | | |
| | | | | 5x12 = | | 2x4 II | | 3x10 = | |
| 3-4-0 | | 3 2 3 4x5 = 2x4 II | 4 ¹² • • • • • • • • • • • • • • • • • • • | | 14 | 5 5 15 11 16 4x10 = | 10 8 3x4 2x4 II 2x4 II | 6 9 9 2x4 II | 2-11-5 |
| | | 2-3-8 2-3-8 | <u>6-9-13</u> 4-6-5 | | <u>11-4</u> 4-6- | | 3-8-8 15-8 -4-8 2-0 | | |

Scale = 1:37.7

Plate Offsets (X, Y): [2:Edge,0-1-2], [3:0-2-9,0-2-0]

| | , , , , , [2.Euge,0 1 2], | , [0.0 2 0,0 2 0] | | | | | | | | | | | | | |
|-------------|---------------------------|------------------------|--------|---|---|------------|-----------------|-------|-------|-----------|---------|-------------------|----------------------|--|--|
| 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 | | тс | 0.72 | Vert(LL) | -0.16 | 3-12 | >999 | 360 | MT20 | 197/144 | | |
| TCDL | 10.0 | Lumber DOL | 1.15 | | BC | 0.83 | Vert(CT) | -0.28 | 3-12 | >677 | 240 | | | | |
| BCLL | 0.0* | Rep Stress Incr | NO | | WB | 0.41 | Horz(CT) | 0.19 | 7 | n/a | n/a | | | | |
| BCDL | 10.0 | Code | IRC20 | 18/TPI2014 | Matrix-S | | Wind(LL) | 0.14 | 3-12 | >999 | 240 | Weight: 152 lb | FT = 10% | | |
| LUMBER | | | 2 |) All loads are | e considered equa | llv applie | d to all plies. | | Ur | niform Lo | oads (I | b/ft) | | | |
| TOP CHORD | 2x6 SPF 1650F 1.4E | E *Except* 4-6:2x4 S | PF | | except if noted as front (F) or back (B) face in the LOAD Vert: 1-4=-70, 4-6=-70, 2-13=-20, 3-10=-20, 7-8 | | | | | | | | | | |
| | No.2 | | | CASE(S) se | CASE(S) section. Ply to ply connections have been Concentrated Loads (Ib) | | | | | | | | | | |
| BOT CHORD | 2x6 SPF No.2 *Exce | ept* 10-8:2x4 SPF No | 0.2 | provided to | distribute only load | ds noted | as (F) or (B), | | | Vert: 10 | =-230 | (F), 12=-450 (F), | 14=-230 (F), 15=-230 | | |
| WEBS | 2x4 SPF No.2 | | | unless other | wise indicated. | | | | | (F), 16= | | | | | |
| BRACING | | | 3 |) Unbalanced | roof live loads ha | ve been | considered fo | or | | | | | | | |
| TOP CHORD | Structural wood she | athing directly applie | ed or | this design. | | | | | | | | | | | |
| | | cept end verticals, a | | | 7-16; Vult=115m | | | _ | | | | | | | |
| | 2-0-0 oc purlins (6-0 |)-0 max.): 4-6. | | | h; TCDL=6.0psf; I | | | | | | | | | | |
| BOT CHORD | Rigid ceiling directly | applied or 6-0-0 oc | | II; Exp C; Enclosed; MWFRS (envelope) exterior zone; | | | | | | | | | | | |
| | bracing. | | | cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 | | | | | | | | | | | |
| REACTIONS | (size) 2=0-3-8, 7 | 7=0-3-8 | _ | | | | | | | | | | | | |
| | Max Horiz 2=120 (LC | C 26) | 5 | | | | | | | | | | | | |
| | Max Uplift 2=-394 (L | .C 4), 7=-390 (LC 4) | 6 | | ad nonconcurrent | | | de | | | | | | | |
| | Max Grav 2=1405 (L | LC 1), 7=1518 (LC 1) |) 7 | | has been designe | | | | | | | | | | |
| FORCES | (lb) - Maximum Com | pression/Maximum | ' | | m chord in all area | | | ры | | | | | | | |
| | Tension | | | | by 2-00-00 wide w | | | om | | | | | | | |
| TOP CHORD | 1-2=0/18, 2-3=-681/ | 138, 3-4=-4262/1092 | 2, | | ny other members | | | | | | | | | | |
| | 4-5=-3374/896, 5-6= | -3374/896, | 8 | | chanical connectio | | ers) of truss | to | | | | | | | |
| | 7-9=-1475/395, 6-9= | -1264/350 | | | e capable of withs | | | | | | | | | | |
| BOT CHORD | 2-13=0/0, 3-12=-105 | | | | uplift at joint 2. | Ũ | • | | | | | | | | |
| | 11-12=-1076/4185, | , | 9 |) This truss is | designed in acco | rdance w | ith the 2018 | | | | | | | | |
| | 9-10=-94/226, 8-10= | | | Internationa | Residential Code | e sections | s R502.11.1 a | and | | | | | | | |
| WEBS | 3-13=-40/211, 4-12= | , | 6/243, | R802.10.2 a | ind referenced sta | Indard AN | ISI/TPI 1. | | | | | A T | and the second | | |
| | 5-11=-317/164, 6-11 | 1=-874/3350 | 1 | Graphical pr | urlin representatio | n does n | ot depict the | size | | | | B F OF | VIIS S | | |
| | | | | | ation of the purlin | along the | e top and/or | | | | 4 | Y NI | NS | | |
| NOTES | | | | bottom chor | | | | | | | B | STATE OF J | TM XPN | | |
| / / / | to be connected toge | ther with 10d | 1 | | r other connection | | | | | | 8 | SEV | | | |
| (∩ 131"v3" |) naile as follows: | | | provided sufficient to support concentrated load(s) 450 | | | | | | | | | | | |

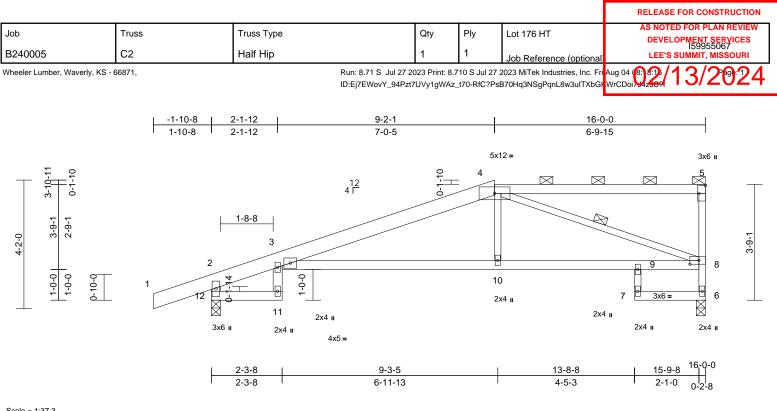
- (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc. Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 450 lb down and 145 lb up at 6-8-1, 230 lb down and 73 lb up at 7-11-4, 230 lb down and 73 lb up at 9-11-4, and 230 lb down and 73 lb up at 11-11-4, and 230 lb down and 71 lb up at 13-10-4 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.
- LOAD CASE(S) Standard
- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15



Chesterfield, MO 63017 314.434.1200 / MiTek-US.com

PE-200101880'

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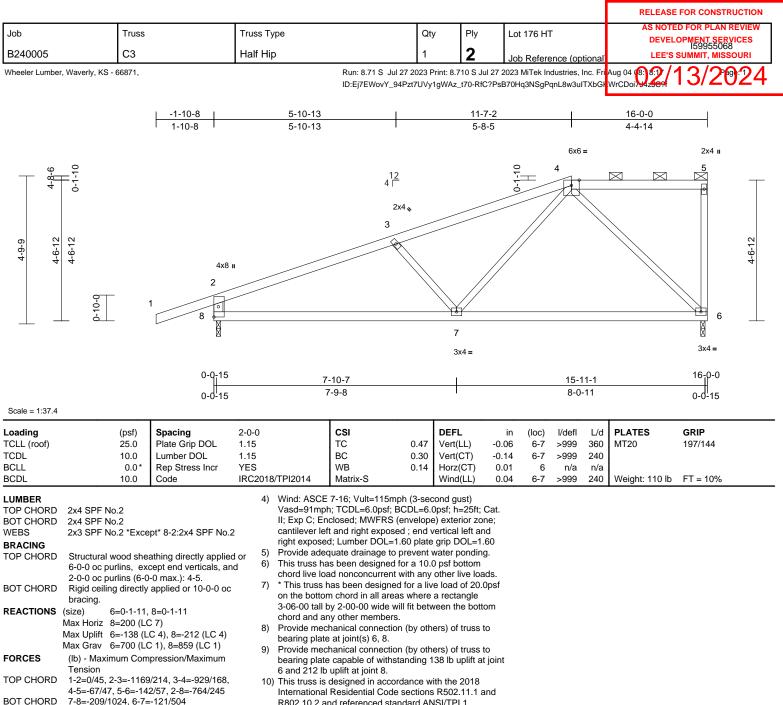
Scale = 1:37.3

Plate Offsets (X, Y): [3:0-0-11,0-0-15], [5:Edge,0-2-8], [8:0-3-8,0-1-8]

| Plate Offsets (. | X, Y): [3:0-0-11,0-0-1 | 5], [5:Edge,0-2-8], [8 | 8:0-3-8,0- | 1-8] | | | | | | | | | |
|---|---|--|--|---|-----------------------------------|--|---|--------------------------------------|------------------------------------|---------------------------------------|---------------------------------|---------------------------------|------------------------------------|
| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 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 IRC20 ⁷ | 18/TPI2014 | CSI TC BC WB Matrix-S | 0.72 0.71 0.60 | DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL) | in -0.28 -0.55 0.32 0.24 | (loc) 3-10 3-10 6 3-10 | l/defl >670 >342 n/a >789 | L/d 360 240 n/a 240 | PLATES MT20 Weight: 61 lb | GRIP 197/144 FT = 10% |
| | 2-0-0 oc purlins (6-0 Rigid ceiling directly bracing, Except: 6-0-0 oc bracing: 6- 1 Row at midpt (size) 6=0-3-8, Max Horiz 12=166 (I Max Uplift 6=-134 (L Max Grav 6=700 (L0 | ept* 9-7:2x3 SPF No ept* 11-3,12-2:2x4 S eathing directly applie (cept end verticals, a)-0 max.): 4-5. • applied or 10-0-0 or 7. 4-8 12=0-3-8 LC 5) LC 4), 12=-216 (LC 4 C 1), 12=859 (LC 1) | .2 PF 6 ed or 7 ind c 8 L | on the bottor 3-06-00 tall the chord and ar Provide mechanism bearing plate 6 and 216 lb This truss is International R802.10.2 a Graphical put | | eas where will fit betw s. on (by oth standing 1 ordance w e sections andard AN on does no | a rectangle veen the botto ers) of truss to 34 lb uplift at th the 2018 R502.11.1 a ISI/TPI 1. ot depict the s | om o joint nd | | | | | |
| FORCES | (lb) - Maximum Com Tension 1-2=0/45, 2-3=-263/ 4-5=-64/35, 6-8=-67 2-12=-857/235 | 11, 3-4=-1296/218, | | | | | | | | | | | |
| this design 2) Wind: ASC Vasd=91m II; Exp C; I cantilever right expos 3) Provide ad | ed roof live loads have | =0/34, 6-7=-6/10 317, 4-8=-1250/226 been considered fo (3-second gust) CDL=6.0psf; h=25ft; (nvelope) exterior zor ; end vertical left an 0 plate grip DOL=1. revent water ponding | r Cat. ne; d 60 | | | | | | | | P | SCOT SEVI | ER BER 018807 |
| chord live | load nonconcurrent w | ith any other live loa | ds. | | | | | | | | | | st 7,2023 |

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WFBS 3-7=-305/194, 4-7=-45/504, 4-6=-696/169 NOTES

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x3 - 1 row at 0-9-0 oc

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

Web connected as follows: 2x3 - 1 row at 0-9-0 oc. All loads are considered equally applied to all plies, 2)

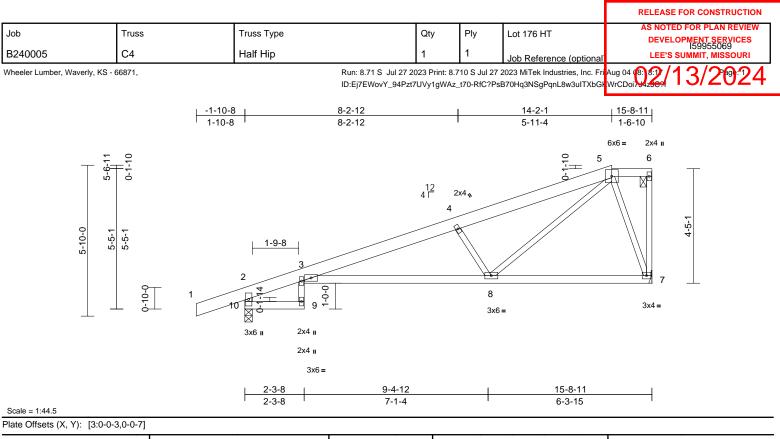
- except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for 3) this design.

- R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- LOAD CASE(S) Standard



🙏 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 and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponent.com)





| | | - | | | | - | | | | | | | |
|-------------|---|-----------------------|----------|----------------|---------------------------------------|-----------|----------------|-------|-------|--------|-----|---------------|-------------|
| Loading | (psf) | Spacing | 2-0-0 | | csi | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL (roof) | | Plate Grip DOL | 1.15 | | тс | 1.00 | Vert(LL) | -0.22 | 3-8 | >852 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | | BC | 0.67 | Vert(CT) | -0.45 | 3-8 | >409 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | | WB | 0.39 | Horz(CT) | 0.22 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/ | TPI2014 | Matrix-S | - | Wind(LL) | 0.14 | 3-8 | >999 | 240 | Weight: 64 lb | FT = 10% |
| LUMBER | | | | | hanical connectio | | | | | | | | |
| TOP CHOR | | | | 01 | capable of withs | tanding 4 | 0 lb uplift at | joint | | | | | |
| BOT CHOR | | | | | plift at joint 10. | rdon oo w | ith the 2019 | | | | | | |
| WEBS | 2x3 SPF No.2 *Exce | ept* 10-2:2x4 SPF N | | | designed in accor Residential Code | | | and | | | | | |
| BRACING | | | | | nd referenced sta | | | anu | | | | | |
| TOP CHOR | D Structural wood she except end verticals | 0 7 11 | eu, où i | | rlin representation | | | size | | | | | |
| | (6-0-0 max.): 5-6. | s, and 2-0-0 oc punil | 15 / | or the orienta | ation of the purlin | along the | top and/or | | | | | | |
| BOT CHOR | | applied or 10-0-0 o | ic I | bottom chord | 1. | | | | | | | | |
| | bracing. | | LOA | AD CASE(S) | Standard | | | | | | | | |
| REACTION | S (size) 7= Mecha | anical, 10=0-3-8 | | | | | | | | | | | |
| | Max Horiz 10=168 (I | , | | | | | | | | | | | |
| | Max Uplift 7=-40 (LC | | | | | | | | | | | | |
| | Max Grav 7=687 (L0 | | | | | | | | | | | | |
| FORCES | (lb) - Maximum Com | npression/Maximum | | | | | | | | | | | |
| | Tension | 0 0 4 4504/05 | | | | | | | | | | | |
| TOP CHOR | D 1-2=0/45, 2-3=-284/ 4-5=-1212/78, 5-6=- | | | | | | | | | | | | |
| | 2-10=-851/106 | .55/57, 0-7=-50/15, | | | | | | | | | | | |
| BOT CHOR | | 60. 3-8=-109/1459. | | | | | | | | | | | |
| | 7-8=-39/216 | , , | | | | | | | | | | | |
| WEBS | 4-8=-723/151, 5-8=- | 52/1136, 5-7=-644/ | 60 | | | | | | | | | | |
| NOTES | | | | | | | | | | | | | |
| 1) Unbalar | nced roof live loads have | been considered for | or | | | | | | | | | OF | MISSO |
| this des | | | | | | | | | | | | TATE OF J | ISS W |
| | SCE 7-16; Vult=115mph | | 0-1 | | | | | | | | 6 | 122 | 1 CAN |
| | 1mph; TCDL=6.0psf; BC C; Enclosed; MWFRS (er | | | | | | | | | | B | SCOT | TM. YZY |
| | nt exposed ; end vertical | | | | | | | | | | R | SEV. | IER \ Y |
| | DOL=1.60 plate grip DC | | , | | | | | | | | 810 | 2/ | 0 121 |
| | adequate drainage to pr | | g. | | | | | | | | WX | 1 the | J. J. J. K. |
| | ss has been designed fo | | | | | | | | | - | | NUM | - engen |
| | ve load nonconcurrent w | | | | | | | | | | 17 | | |
| | uss has been designed f | | Opsf | | | | | | | | N | PE-2001 | A A LOON |
| on the b | pottom chord in all areas | where a rectandle | | | | | | | | | V. | | |

 This truss has been designed for a live load of 20.0ps on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

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

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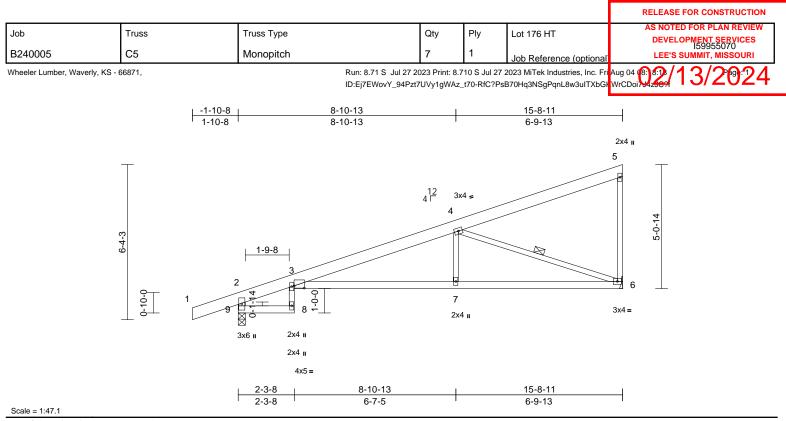
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August 7,2023

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| | Plate Offsets | (X. | Y): | [3:0-4-15,0-1-2] |
|--|---------------|-----|-----|------------------|
|--|---------------|-----|-----|------------------|

| | L | | | | | | | | | | | |
|-------------|-------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|
| 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 | 1.00 | Vert(LL) | -0.25 | 3-7 | >758 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.68 | Vert(CT) | -0.48 | 3-7 | >389 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.69 | Horz(CT) | 0.25 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-S | | Wind(LL) | 0.16 | 3-7 | >999 | 240 | Weight: 63 lb | FT = 20% |

LUMBER

N

| TOP CHORD | 2x6 SPF No.2 |
|-----------|--|
| BOT CHORD | 2x4 SPF No.2 *Except* 8-3:2x3 SPF No.2 |
| WEBS | 2x3 SPF No.2 *Except* 9-2:2x4 SPF No.2 |
| BRACING | |
| TOP CHORD | Structural wood sheathing directly applied, |
| | except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc |
| | bracing. |
| WEBS | 1 Row at midpt 4-6 |
| REACTIONS | (size) 6= Mechanical, 9=0-3-8 |
| | |
| | Max Horiz 9=186 (LC 5) |
| | Max Horiz 9=186 (LC 5) Max Uplift 6=-46 (LC 8), 9=-87 (LC 4) |
| | · · · · · · · · · · · · · · · · · · · |
| FORCES | Max Uplift 6=-46 (LC 8), 9=-87 (LC 4) |
| FORCES | Max Uplift 6=-46 (LC 8), 9=-87 (LC 4) Max Grav 6=687 (LC 1), 9=847 (LC 1) |
| FORCES | Max Uplift 6=-46 (LC 8), 9=-87 (LC 4) Max Grav 6=687 (LC 1), 9=847 (LC 1) (Ib) - Maximum Compression/Maximum |
| | Max Uplift 6=-46 (LC 8), 9=-87 (LC 4) Max Grav 6=687 (LC 1), 9=847 (LC 1) (Ib) - Maximum Compression/Maximum Tension |
| | Max Uplift 6=-46 (LC 8), 9=-87 (LC 4) Max Grav 6=687 (LC 1), 9=847 (LC 1) (Ib) - Maximum Compression/Maximum Tension 1-2=0/45, 2-3=-297/0, 3-4=-1416/64, |
| TOP CHORD | Max Uplift 6=-46 (LC 8), 9=-87 (LC 4) Max Grav 6=687 (LC 1), 9=847 (LC 1) (Ib) - Maximum Compression/Maximum Tension 1-2=0/45, 2-3=-297/0, 3-4=-1416/64, 4-5=-138/28, 5-6=-155/40, 2-9=-851/105 |

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

R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

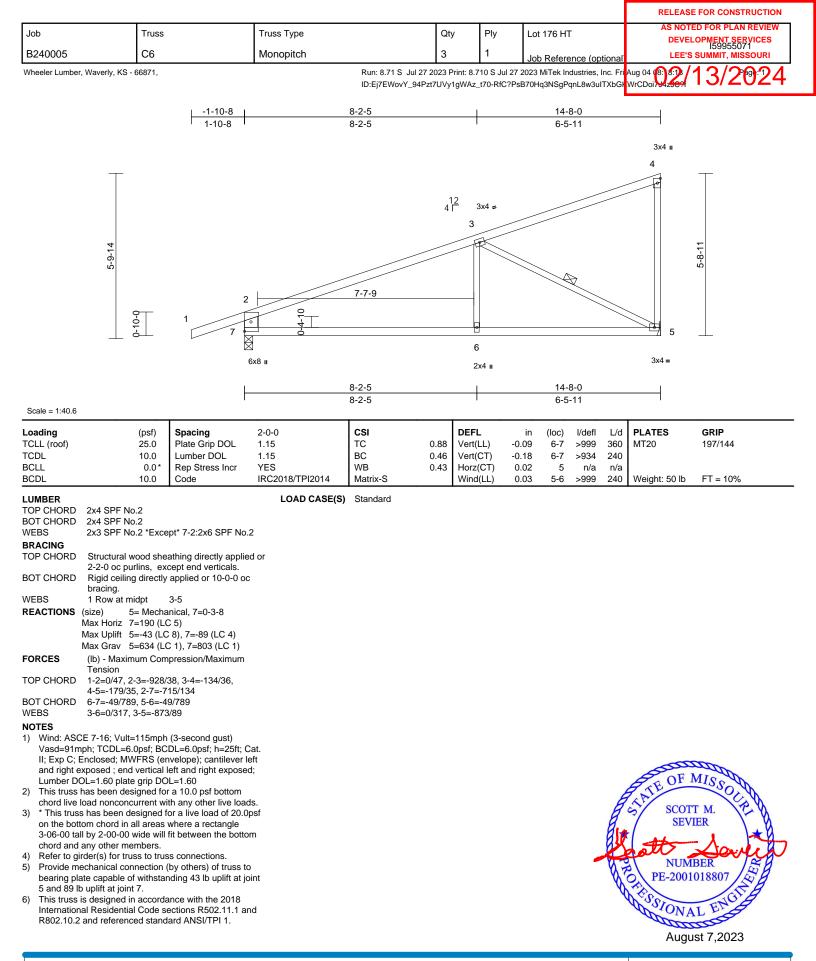
| /EBS | 1 Row at midpt 4-6 | |
|------------|--|--|
| EACTIONS | (size) 6= Mechanical, 9=0-3-8 | |
| | Max Horiz 9=186 (LC 5) | |
| | Max Uplift 6=-46 (LC 8), 9=-87 (LC 4) | |
| | Max Grav 6=687 (LC 1), 9=847 (LC 1) | |
| ORCES | (lb) - Maximum Compression/Maximum | |
| | Tension | |
| OP CHORD | 1-2=0/45, 2-3=-297/0, 3-4=-1416/64, | |
| | 4-5=-138/28, 5-6=-155/40, 2-9=-851/105 | |
| OT CHORD | 8-9=-6/11, 3-8=-5/60, 3-7=-82/1344, | |
| | 6-7=-81/1344 | |
| /EBS | 4-7=0/311, 4-6=-1421/124 | |
| OTES | | |
|) Wind: AS | CE 7-16; Vult=115mph (3-second gust) | |
| V/ | TODI COLLE DODI COLLE DELLO COLLE | |

- 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom 2) chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 3) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections. 4)
- Provide mechanical connection (by others) of truss to 5) bearing plate capable of withstanding 46 lb uplift at joint 6 and 87 lb uplift at joint 9.



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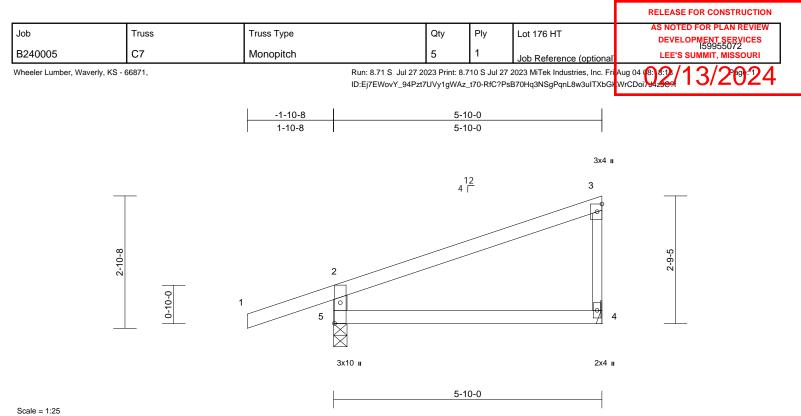


Plate Offsets (X, Y): [5:0-5-6,0-1-8]

| 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 | 0.36 | Vert(LL) | -0.04 | 4-5 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.25 | Vert(CT) | -0.08 | 4-5 | >846 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-R | | Wind(LL) | 0.01 | 4-5 | >999 | 240 | Weight: 18 lb | FT = 10% |

- LUMBER
- TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 2x3 SPF No.2 *Except* 5-2:2x4 SPF No.2 WEBS BRACING TOP CHORD Structural wood sheathing directly applied or 5-10-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. REACTIONS 4= Mechanical, 5=0-3-8 (size) Max Horiz 5=120 (LC 5)
- Max Uplift 4=-49 (LC 8), 5=-138 (LC 4) Max Grav 4=226 (LC 1), 5=418 (LC 1) FORCES (Ib) - Maximum Compression/Maximum Tension 1-2=0/45, 2-3=-121/15, 3-4=-163/75, TOP CHORD
- 2-5=-370/176 BOT CHORD 4-5=-28/38

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to 5) bearing plate capable of withstanding 49 lb uplift at joint 4 and 138 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 6) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

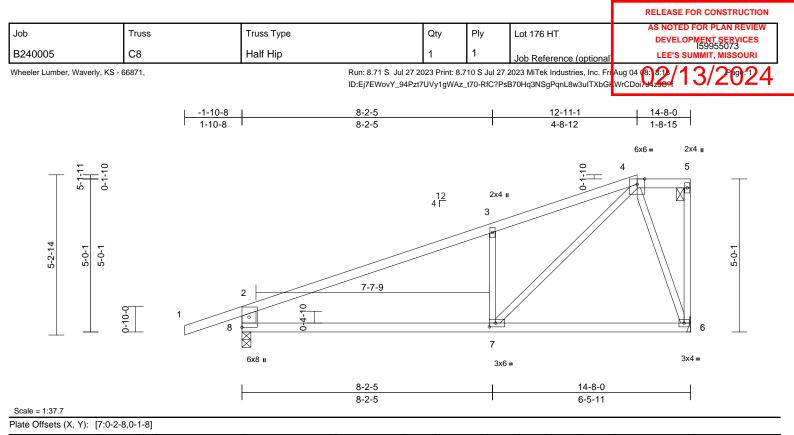
LOAD CASE(S) Standard



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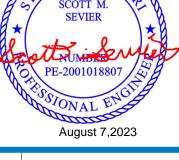


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| Loading TCLL (roof) | (psf) 25.0 | Spacing Plate Grip DOL | 2-0-0 1.15 | | CSI TC | 0.90 | DEFL Vert(LL) | in -0.09 | (loc) 7-8 | l/defl >999 | L/d 360 | PLATES MT20 | GRIP 197/144 |
|---|--|---|-----------------|---|--|--|---|----------------|--------------|----------------|------------|----------------|-------------------------|
| TCDL | 10.0 | Lumber DOL | 1.15 | | BC | 0.46 | Vert(CT) | -0.18 | 7-8 | >933 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | | WB | 0.35 | Horz(CT) | 0.01 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/ | TPI2014 | Matrix-S | | Wind(LL) | 0.03 | 6-7 | >999 | 240 | Weight: 52 lb | FT = 10% |
| LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD | 2x4 SPF No.2 2x3 SPF No.2 *Exce | ept* 8-2:2x6 SPF No.2 | 2 8) 1 or | bearing plate 6 and 201 lb This truss is International R802.10.2 at | hanical connecti capable of with uplift at joint 8. designed in according Residential Coording nd referenced st | standing 1 ordance w e sections andard AN | 29 lb uplift a ith the 2018 R502.11.1 a ISI/TPI 1. | t joint and | | | | | |
| BOT CHORD | 2-2-0 oc purlins, ex 2-0-0 oc purlins (6-0 | cept end verticals, an | d ⁹⁾ | | | | | size | | | | | |
| REACTIONS | (size) 6= Mecha Max Horiz 8=220 (L0 Max Uplift 6=-129 (L0 Max Grav 6=634 (L0 | .C 4), 8=-201 (LC 4) | | | | | | | | | | | |
| FORCES | (lb) - Maximum Corr Tension | pression/Maximum | | | | | | | | | | | |
| TOP CHORD | | | | | | | | | | | | | |
| BOT CHORD WEBS | 7-8=-141/772, 6-7=- | , | 22 | | | | | | | | | | |
| NOTES | 5-7=-459/240, 4-7=- | 210/020, 4-0=-575/10 | 55 | | | | | | | | | | |
| | ed roof live loads have | been considered for | | | | | | | | | | | |
| 2) Wind: AS Vasd=91r II; Exp C; cantilever right expo | TE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed sed; Lumber DOL=1.6 dequate drainage to pr | DL=6.0psf; h=25ft; C hvelope) exterior zone ; end vertical left and 0 plate grip DOL=1.6 | ; | | | | | | | | | STATE OF I | MISSOLAR T M. HER |
| This truss | has been designed fo | r a 10.0 psf bottom | S. | | | | | | | (| Jo. | | 0 |

- chord live load nonconcurrent with any other live loads.
 * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.



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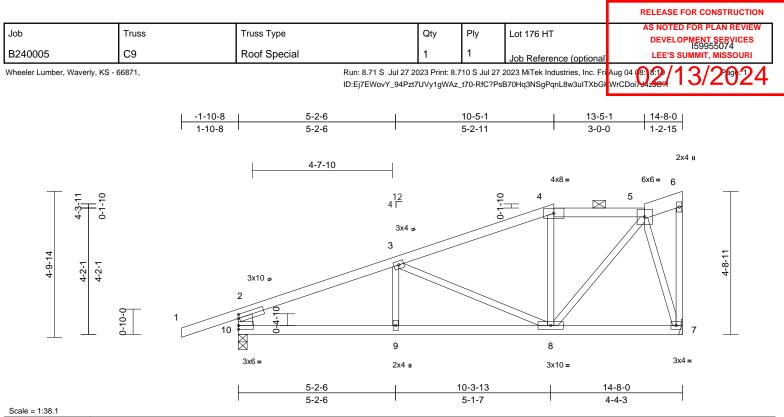


Plate Offsets (X, Y): [2:0-0-8,0-1-8]

| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 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 | 0.82 0.69 0.30 | DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL) | in -0.09 -0.16 0.02 0.07 | (loc) 8-9 8-9 7 8-9 | l/defl >999 >999 n/a >999 | L/d 360 240 n/a 240 | PLATES MT20 Weight: 58 lb | GRIP 197/144 FT = 10% |
|--|---|--|--|---|---|--|--|--------------------------------------|---------------------------------|---------------------------------------|---------------------------------|---------------------------------|------------------------------------|
| LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD | 2x4 SPF No.2 2x3 SPF No.2 *Exce Structural wood she 4-2-2 oc purlins, ex 2-0-0 oc purlins (6-0 | ept* 10-2:2x6 SP DS athing directly appli cept end verticals, a)-0 max.): 4-5. | SS 7) ed or and 8) | bearing plat 7 and 204 ll This truss is Internationa R802.10.2 a Graphical p | chanical connection te capable of withs to uplift at joint 10. to designed in account and referenced staturlin representation tation of the purlin rd | standing 1 ordance w e sections andard AN on does no | 30 lb uplift a ith the 2018 R502.11.1 a ISI/TPI 1. ot depict the s | t joint and | | | | | |
| BOT CHORD | Rigid ceiling directly bracing. | applied or 10-0-0 c | C L | OAD CASE(S | | | | | | | | | |
| REACTIONS | (size) 7= Mecha Max Horiz 10=203 (I Max Uplift 7=-130 (L Max Grav 7=634 (L0 | .C 8), 10=-204 (LC 4 | , | | | | | | | | | | |
| FORCES | (lb) - Maximum Com Tension | pression/Maximum | | | | | | | | | | | |
| TOP CHORD | | | | | | | | | | | | | |
| BOT CHORD WEBS | | 5/125, 4-8=-151/89, | 170 | | | | | | | | | | |
| NOTES | 0.0 | | | | | | | | | | | | |
| Vasd=91n II; Exp C; cantilever right expo 2) Provide ad 3) This truss chord live | CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed sed; Lumber DCL=1.6 dequate drainage to pr has been designed fo load nonconcurrent wi s has been designed fo | DL=6.0psf; h=25ft; nvelope) exterior zo ; end vertical left ar 0 plate grip DOL=1. event water pondin r a 10.0 psf bottom ith any other live loa | ne; nd 60 g. ds. | | | | | | | | | STATE OF I | MISSOUR T.M. HER |

- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.



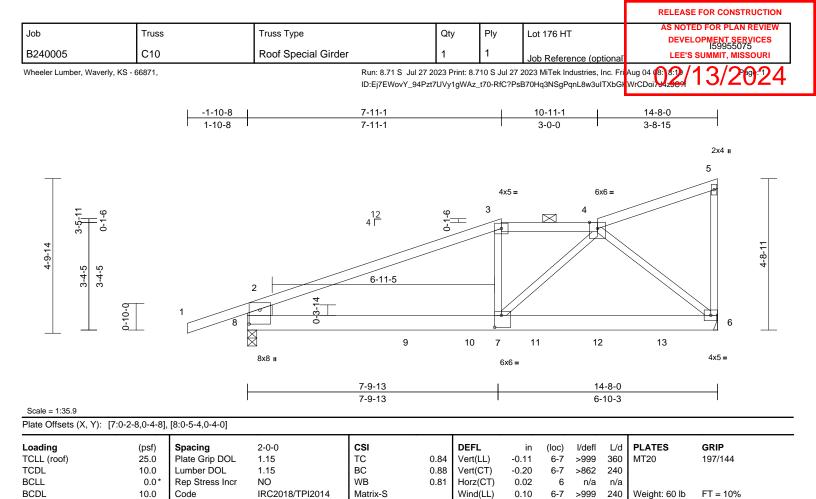
OFT

PE-200101880

SSIONAL ET

August 7,2023

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| LUMBER | |
|-----------|---|
| TOP CHORD | 2x4 SPF No.2 *Except* 1-3:2x4 SPF 2100F 1.8E |
| BOT CHORD | 2x6 SPF No.2 |
| WEBS | 2x3 SPF No.2 *Except* 8-2:2x10 SP DSS |
| BRACING | |
| TOP CHORD | Structural wood sheathing directly applied or |
| | 4-1-3 oc purlins, except end verticals, and |
| | 2-0-0 oc purlins (4-3-12 max.): 3-4. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc |
| | bracing. |
| REACTIONS | (size) 6= Mechanical, 8=0-3-8 |
| | Max Horiz 8=204 (LC 22) |
| | Max Uplift 6=-358 (LC 8), 8=-378 (LC 4) |
| | Max Grav 6=1363 (LC 1), 8=1356 (LC 1) |
| FORCES | (lb) - Maximum Compression/Maximum |
| | Tension |
| TOP CHORD | 1-2=0/50, 2-3=-2027/482, 3-4=-1816/488, |
| | 4-5=-104/32, 5-6=-117/50, 2-8=-1097/370 |
| BOT CHORD | 7-8=-454/1826, 6-7=-276/1120 |
| WEBS | 3-7=-81/371, 4-7=-248/973, 4-6=-1437/411 |

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.
 * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 358 lb uplift at joint 6 and 378 lb uplift at joint 8.

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

- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 388 lb down and 124 lb up at 4-11-4, 211 lb down and 55 lb up at 6-11-4, 211 lb down and 68 lb up at 8-11-13, and 238 lb down and 75 lb up at 10-11-4, and 238 lb down and 75 lb up at 12-11-4 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

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

Vert: 9=-388 (B), 10=-211 (B), 11=-211 (B), 12=-238 (B), 13=-238 (B)



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| | | | | | | | | | | | | RELEAS | E FOR CONSTRUCTION |
|--|--|--|---|--|---|--|--|---|---|-------------------------|---------------------------------|-----------------------------------|--|
| Job | Truss | | Truss Type | | | Qty | , | Ply | Lot 176 I | ΗT | | | ED FOR PLAN REVIEW |
| B240005 | D1 | | Hip Girder | | | 1 | | 1 | Job Refe | rence (or | otional | | OPMENT SERVICES 159955076 SUMMIT, MISSOURI |
| Wheeler Lumbe | r, Waverly, KS - 66871, | | | | | | | | 21 2023 MiTe | k Industrie | s, Inc. I | lon Aug 0709:38:0 7r27V9TyqRii | 13/2024 |
| | | -1-10-8 1-10-8 | 0-10-4 | <u>5-5</u> 4-6 | | | - <u>6-15</u> -1-14 | | | <u>14-0-0</u> 5-5-1 | | 15-1 | |
| | 2-8-14 2-7-11 0-10-0 | . 1 <u>1</u> | 0-3-8 3x10 = 2 2 3x6 = 2x4 = 0 0-10-4 | 4-5 41 | | 4x5 = 4 10 3x4 = | 13 | 4x10 5 9 2x4 II | | 4-11+9 | 0-4-10 | 6 6 6x8 ш | 7 |
| Scale = 1:39.8 | | | 0-8-8 0-8-8 0-1-12 | 5-6 4-8 | | | <u>-5-11</u> -11-6 | | | <u>13-10-0</u> 5-4-5 | | 14-0-0 0-2-0 | |
| | (X, Y): [2:0-4-11,0-1- | 8], [5:0-5-0,0-1-13] | | | | | | | | | | | |
| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 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/TPI20 |)14 | CSI TC BC WB Matrix-S | 0.69 0.84 0.09 | DEFL Vert(I Vert(Horz(Wind | LL) -0 CT) -0 (CT) 0 | in (loc) 0.15 9-10 0.25 9-10 0.02 8 0.13 9-10 | >999 >615 n/a | L/d 360 240 n/a 240 | PLATES MT20 Weight: 46 lb | GRIP 197/144 FT = 10% |
| LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD | 2x4 SPF 2100F 1.8 No.2 2x4 SPF 2100F 1.8 2x3 SPF No.2 *Exc Structural wood sh 5-10-10 oc purlins, 2-0-0 oc purlins (5- | E *Except* 4-5:2x4 SI E ept* 12-2,8-6:2x6 SP eathing directly applie except end verticals, | 6) Provi per bearin joint & 7) This t DSS Interr R802 d or 8) Grapi and or the bottoo | de mech ng plate 3 and 31 rruss is c national 1 .10.2 an hical pur orienta m chord | anical connection capable of withe 1 lb uplift at join lesigned in accor Residential Cod d referenced stat lin representation tion of the purlin | standing 2 at 11. ordance wi e sections andard AN on does no along the | ers) of 76 lb u R502. SI/TPI t depic top ar | truss to uplift at 2018 11.1 and 1. ct the size nd/or | | | 240 | 1 ****91*** *** ID | |

WEBS NOTES

BOT CHORD

FORCES

TOP CHORD

BOT CHORD

REACTIONS (lb/size)

bracing.

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

5-9=-30/285, 3-11=-423/213

8-9=-210/1025

Max Horiz 11=22 (LC 8)

Rigid ceiling directly applied or 10-0-0 oc

Max Uplift 8=-276 (LC 5), 11=-311 (LC 4)

(lb) or less except when shown.

2-3=-909/221, 3-4=-1026/279,

4-13=-895/272, 5-13=-895/272,

10-14=-211/1036, 9-14=-211/1036,

(lb) - Max. Comp./Max. Ten. - All forces 250

5-6=-1173/307, 2-12=-347/76, 6-8=-779/290 11-12=-194/889, 10-11=-179/889,

8=888/0-3-8, 11=978/0-3-8

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- 3) Provide adequate drainage to prevent water ponding. This truss has been designed for a 10.0 psf bottom
- 4) chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 5) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- bottom chord. Hanger(s) or other connection device(s) shall be 9) provided sufficient to support concentrated load(s) 60 lb down and 57 lb up at 7-0-0 on top chord, and 205 lb down and 81 lb up at 5-5-1, and 27 lb down at 7-0-0, and 205 lb down and 81 lb up at $\,$ 8-6-15 on bottom chord. The design/selection of such connection device (s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

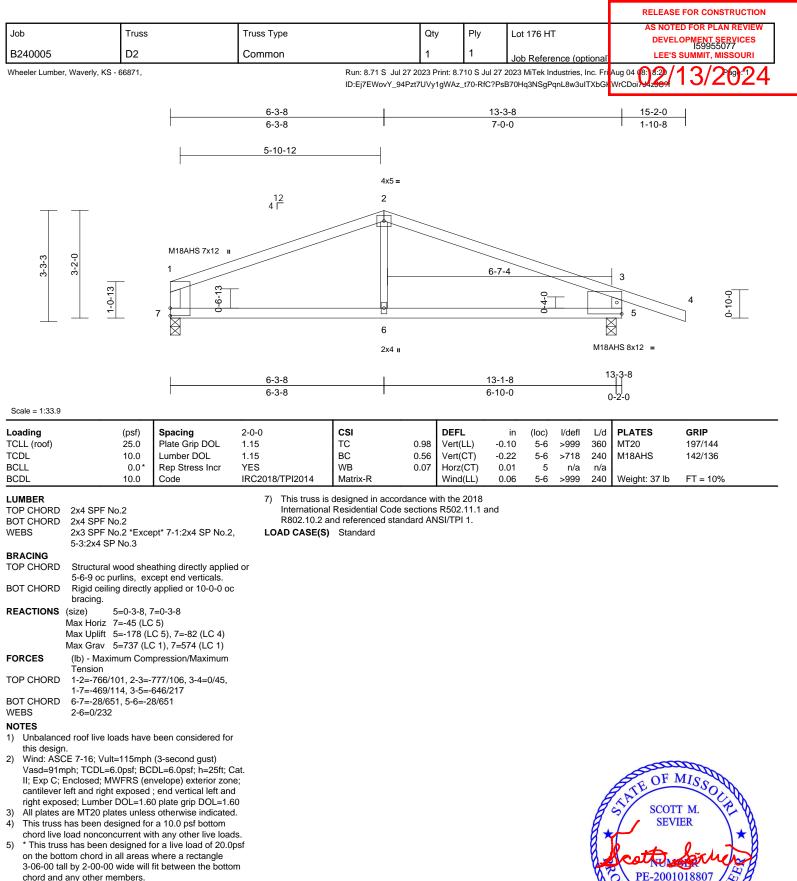
LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, 1) Plate Increase=1.15 Uniform Loads (lb/ft)
 - Vert: 1-2=-70, 2-4=-70, 4-5=-70, 5-6=-70, 6-7=-70, 8-12=-20
 - Concentrated Loads (lb)
 - Vert: 10=-156 (F), 9=-156 (F), 13=-28 (F), 14=-12 (F)



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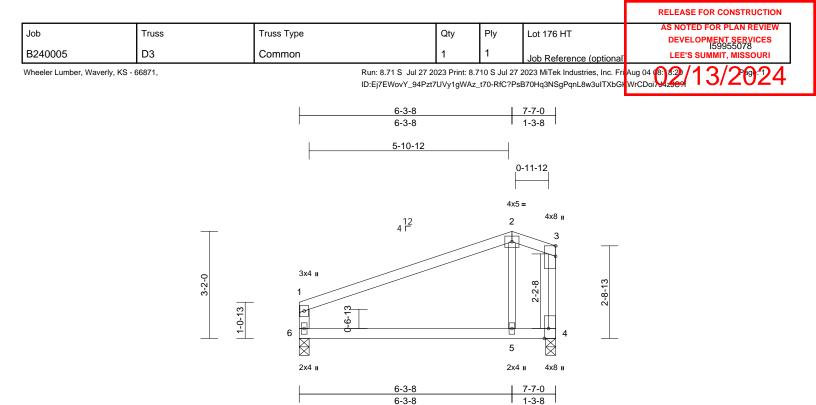




chord and any other members.
Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 82 lb uplift at joint 7 and 178 lb uplift at joint 5.

August 7,2023

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| <u> </u> | | |
|----------|----------|--|
| Scale | = 1:34.1 | |

Plate Offsets (X, Y): [3:0-3-11,Edge], [4:0-3-8,Edge]

| | | 1 | - | 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 | 0.64 | Vert(LL) | -0.07 | 5-6 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.34 | Vert(CT) | -0.17 | 5-6 | >529 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.03 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-R | | Wind(LL) | 0.06 | 5-6 | >999 | 240 | Weight: 23 lb | FT = 10% |

- LUMBER
- TOP CHORD
- 2x4 SPF No.2
- BOT CHORD 2x4 SPF No.2 2x3 SPF No.2 *Except* 6-1:2x4 SP No.3 WEBS 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) 4=0-3-8, 6=0-3-8 Max Horiz 6=100 (LC 5) Max Uplift 4=-55 (LC 4), 6=-53 (LC 4) Max Grav 4=330 (LC 1), 6=330 (LC 1) FORCES (Ib) - Maximum Compression/Maximum Tension
- TOP CHORD 1-2=-186/28, 2-3=-149/51, 3-4=-142/5, 1-6=-257/90BOT CHORD 5-6=-36/110, 4-5=-36/110 WFBS 2-5=-114/101

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom 3) chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to 5) bearing plate capable of withstanding 53 lb uplift at joint 6 and 55 lb uplift at joint 4.

6) This truss is designed in accordance with the 2018

International Residential Code sections R502.11.1 and

R802.10.2 and referenced standard ANSI/TPI 1.

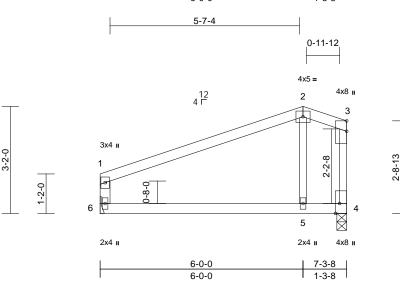
LOAD CASE(S) Standard



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| | | | | | | | RELEASE FOR CONSTRUCTION |
|----------------------|-------------------|------------|-----------|----|-------|--|---|
| Job | Truss | Truss Type | Q | ty | Ply | Lot 176 HT | AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 159955079 |
| B240005 | D4 | Common | 1 | | 1 | Job Reference (optional) | I59955079 LEE'S SUMMIT, MISSOURI |
| Wheeler Lumber, Wave | erly, KS - 66871, | | | | | 2023 MiTek Industries, Inc. Fri 370Hq3NSgPqnL8w3uITXbGł | |
| | | | 6-0-0 | | | -3-8 | |
| | | Ι | 6-0-0 | | 1 | -3-8 | |
| | | | 5-7-4 | | | | |
| | | | | | 0-1 | 11-12 | |
| | | | | | 4x5 = | | |
| | _ | | 12 4 Г | | 2 | 4x8 II | |
| | | 3х4 и | | | | | |



| Scale = 1:34.1 | | Scale = 1:34.1 | |
|----------------|--|----------------|--|
|----------------|--|----------------|--|

Plate Offsets (X, Y): [3:0-3-11,Edge], [4:0-3-8,Edge]

| 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 | 0.58 | Vert(LL) | -0.06 | 5-6 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.31 | Vert(CT) | -0.14 | 5-6 | >595 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.03 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-R | | Wind(LL) | 0.05 | 5-6 | >999 | 240 | Weight: 22 lb | FT = 10% |

- LUMBER
- TOP CHORD

2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 2x3 SPF No.2 *Except* 6-1:2x4 SP No.3 WEBS 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) 4=0-3-8, 6= Mechanical Max Horiz 6=99 (LC 5) Max Uplift 4=-52 (LC 4), 6=-51 (LC 4) Max Grav 4=317 (LC 1), 6=317 (LC 1) FORCES (lb) - Maximum Compression/Maximum Tension 1-2=-172/28, 2-3=-139/50, 3-4=-138/8, TOP CHORD 1-6=-245/86 BOT CHORD 5-6=-37/100, 4-5=-37/100 WFBS 2-5=-111/94

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections. 5)
- Provide mechanical connection (by others) of truss to 6) bearing plate capable of withstanding 51 lb uplift at joint 6 and 52 lb uplift at joint 4.

7) This truss is designed in accordance with the 2018

International Residential Code sections R502.11.1 and

R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

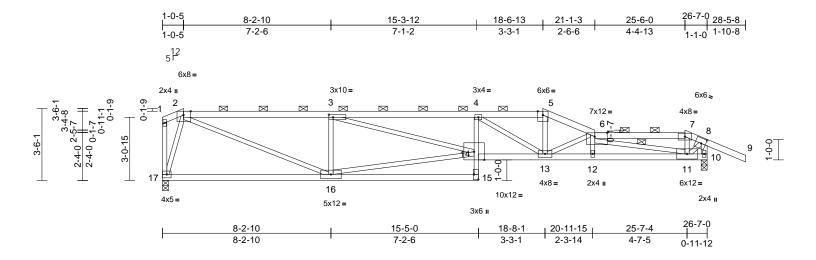




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| | | | | | | RELEASE FOR CONSTRUCTION |
|---------|-------|---------------------|-----|-----|-------------------------|-----------------------------------|
| Job | Truss | Truss Type | Qty | Plv | Lot 176 HT | AS NOTED FOR PLAN REVIEW |
| | | | , | | 201110111 | DEVELOPMENT SERVICES 159955080 |
| B240005 | E1 | Roof Special Girder | 1 | 1 | Job Reference (optional | LEE'S SUMMIT, MISSOURI |
| | 00074 | 5 | | | | |

Run: 8.71 S Jul 27 2023 Print: 8.710 S Jul 27 2023 MiTek Industries, Inc. Fri Aug 04 (6) 62/1 3/2 2 10:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGf WrCDoi 24



Scale = 1:56.2

| Diata Offacta (| X, Y): [2:0-4-3,Edge], [3 | | 7 4 0 2 4 | 1 10.0 2 0 0 2 0 | 1 [1E-Edge 0.2 G | 01 | | | | | | | |
|-----------------|--|------------------------|-------------------|-------------------|---|------------|----------------|---------|-------|--------|------------|----------------|----------|
| Plate Olisets (| X, Y): [2:0-4-3,Edge], [3 | 5:0-2-8,0-1-8], [6:0-7 | -4,0-2-4 |], [8:0-2-9,0-3-0 | J, [15:Edge,0-2-8 | 5] | | | | | | | |
| Loading | | Spacing | 2-0-0 | | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL (roof) | | Plate Grip DOL | 1.15 | | TC | 0.56 | Vert(LL) | -0.36 | 14 | >870 | 360 | MT20 | 197/144 |
| TCDL | | Lumber DOL | 1.15 | | BC | 0.83 | Vert(CT) | -0.65 | 13-14 | >485 | 240 | | |
| BCLL | 0.0* F | Rep Stress Incr | NO | | WB | 0.93 | Horz(CT) | 0.13 | 10 | n/a | n/a | | |
| BCDL | 10.0 0 | Code | IRC201 | 8/TPI2014 | Matrix-S | - | Wind(LL) | 0.29 | 15 | >999 | 240 | Weight: 103 lb | FT = 10% |
| LUMBER | | | 2) | Wind: ASCE | 7-16; Vult=115m | ph (3-seo | cond gust) | | | | | | |
| TOP CHORD | 2x4 SPF No.2 *Except* 1.8E | * 2-5:2x4 SPF 2100 |)F | | n; TCDL=6.0psf; closed; MWFRS | | | | | | | | |
| BOT CHORD | | * 15-4:2x3 SPF No. | 2, | | t and right expos | | | | | | | | |
| | 14-10:2x4 SPF 2100F | 1.8E | | | d; Lumber DOL= | | | | | | | | |
| NEBS | 2x3 SPF No.2 *Except* | * 10-8:2x4 SPF No. | | | quate drainage to | | | g. | | | | | |
| BRACING | | | 4) | | is been designed | | | | | | | | |
| TOP CHORD | Structural wood sheath | | | | ad nonconcurrent | | | | | | | | |
| | 2-11-13 oc purlins, exe | | and ⁵⁾ | | nas been designe | | | upst | | | | | |
| | 2-0-0 oc purlins (3-6-4 | | | | n chord in all are ov 2-00-00 wide v | | | om | | | | | |
| BOT CHORD | 0 0 7 1 | pplied or 6-0-0 oc | | | by 2-00-00 wide v | | veen the bott | UIII | | | | | |
| | bracing. | | 6) | | hanical connection | | ers) of truss | to | | | | | |
| WEBS | 1 Row at midpt 6- | | 0, | | capable of withs | | | | | | | | |
| REACTIONS | · · · · | | | | b uplift at joint 17 | | | , joint | | | | | |
| | Max Horiz 17=-121 (LC | , | , 7) | | designed in acco | | ith the 2018 | | | | | | |
| | Max Uplift 10=-315 (LC | | | International | Residential Code | e sections | s R502.11.1 a | and | | | | | |
| | Max Grav 10=1217 (LC | | 1) | | nd referenced sta | | | | | | | | |
| FORCES | (lb) - Maximum Compre | ession/Maximum | 8) | | rlin representatio | | | size | | | | | |
| | Tension | 400 0 4 0057/70 | | | ation of the purlin | along the | e top and/or | | | | | | |
| TOP CHORD | 1-2=-73/32, 2-3=-2283/ | , | ' | bottom chore | | | | | | | | | |
| | 4-5=-3013/531, 5-6=-33 6-7=-968/189, 7-8=-104 | , | 9) | | other connection | | | -0.11- | | | | | |
| | 1-17=-72/113, 8-10=-14 | , , , | | | ficient to support | | | | | | | | |
| BOT CHORD | 16-17=-52/370, 15-16= | | 118 | | lb up at 32-10-1 5 lb up at 32-9-1 | | | | | | | 000 | TO |
| | 4-14=0/210, 13-14=-65 | | 110, | | tion of such conn | | | | | | | 8. OF M | MICON |
| | 12-13=-705/4368, 11-1 | , | | responsibility | | lection de | vice(s) is the | | | | | THE OF N | 000 |
| | 10-11=-111/55 | , | 1(| | CASE(S) section | loads a | onlied to the | face | | | 6 | N | N SY |
| VEBS | 2-16=-354/2087, 3-16= | =-1008/310, | | | are noted as front | | | 1000 | | | B | SCOT | ΓM. Y Y |
| | 14-16=-361/2095, 3-14 | 4=-294/1634, | | DAD CASE(S) | | (.) 0. 50 | 0.1 (2). | | | | R | / SEVI | ER \Y |
| | 4-13=-1120/230, 5-13= | =-186/1181, | 1) | | of Live (balanced |). Lumber | Increase-1 | 15 | | | 10 | | |
| | 6-13=-1415/249, 6-12= | =-175/84, | | Plate Increa | | | | | | _ | V / | | San 1 1 |
| | 6-11=-3560/591, 7-11= | | | Uniform Lo | | | | | | , j | <u>م</u> ب | NUM | Cerren |
| | 2-17=-1241/325, 8-11= | -259/1405 | | | =-70, 2-5=-70, 5- | 6=-70, 6- | 7=-70, 7-8=-7 | 70, | | | 27 | al INOM | DER /SA |
| NOTES | | | | | 15-17=-20, 10-14 | | , | - , | | | N. | O PE-2001 | 018807 |
| 1) Unbalance | ed roof live loads have be | een considered for | | , | ed Loads (lb) | - | | | | | V | PE-2001 | 158 |
| this desigr | ٦. | | | Vert: 7=5 | 51 (F), 11=68 (F) | | | | | | | A SIG | ENUS |
| | | | | | | | | | | | | C'SSIONA | L |
| | | | | | | | | | | | | Ultra | |

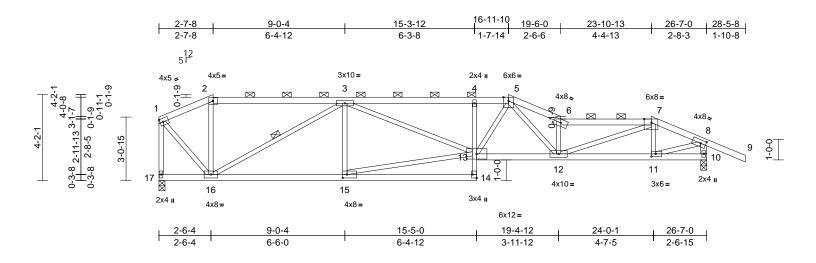
 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not besign value for use only 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)



August 7,2023

| | | | | | | RELEASE FOR CONSTRUCTION |
|-------------------------------|--------|----------------------|---------------|--------------|---------------------------------|---|
| Job | Truss | Truss Type | Qty | Ply | Lot 176 HT | |
| B240005 | E2 | Roof Special | 1 | 1 | Job Reference (optional | DEVELOPMENT SERVICES 159955081 LEE'S SUMMIT, MISSOURI |
| Wheeler Lumber, Waverly, KS - | 66871, | Run: 8.71 S Jul 27 2 | 023 Print: 8. | 710 S Jul 27 | 2023 MiTek Industries, Inc. Fri | |

Run: 8.71 S Jul 27 2023 Print: 8.710 S Jul 27 2023 MiTek Industries, Inc. Fri Aug 04 (6) 62/1 3/2 2 2 10:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3uITXbGi WrCDoi 24



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Scale = 1:55.9
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| Plate Offsets (| X, Y): [7:0-4-3,Edge], | [8:0-2-15,0-2-0], [11 | 1:0-2-8,0-1 | -8], [14:Edge,0 | 0-2-8], [15:0-2-8,0 | -2-0] | | | | | | | |
|--|---|--|--|---|--|--|--|--|--|---------------------------------------|---------------------------------|----------------------------------|------------------------------------|
| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 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 | 0.67 0.72 0.75 | DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL) | -0.41 0.09 | (loc) 12-13 12-13 10 12-13 | l/defl >999 >772 n/a >999 | L/d 360 240 n/a 240 | PLATES MT20 Weight: 108 lb | GRIP 197/144 FT = 10% |
| LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS | 2x4 SPF No.2 2x4 SPF No.2 *Exce 2x3 SPF No.2 *Exce Structural wood she 2-11-0 oc purlins, e 2-0-0 oc purlins (2-6 Rigid ceiling directly bracing, Except: 9-11-1 oc bracing: 1 6-0-0 oc bracing: 10 | ept* 14-4:2x3 SPF No. athing directly applie xcept end verticals, i-11 max.): 2-5, 6-7. applied or 10-0-0 or 2-13 i-11. 3-16 17=0-3-8 LC 6) LC 5), 17=-176 (LC (LC 1), 17=1180 (LC ippression/Maximum 727/159, 3-4=-2756/ | 2) 0.2 3 and 4) 0 5) 5) (4) (4) (4) (4) (4) (4) (4) (4 | Wind: ASCE Vasd=91mp L; Exp C; Er cantilever le right expose Provide ade This truss ha chord live lo * This truss on the botto 3-06-00 tall chord and a Provide mee bearing plate 17 and 236 This truss is International R802.10.2 a Graphical put | F7-16; Vult=115m h; TCDL=6.0psf; I closed; MWFRS ft and right exposide d; Lumber DOL=' quate drainage to as been designed ad nonconcurrent has been designed m chord in all area by 2-00-00 wide w ny other members chanical connectic e capable of withs buplift at joint 10 designed in acco Residential Code nd referenced sta urlin representatio ation of the purlin d. | BCDL=6. (envelopped; end v 1.60 plated prevent v for a 10.0 with any d for a livas as where vill fit betw s. on (by oth tstanding 1 rdance w e sections undard AN n does no | cond gust) Opsf; h=25ft; a) exterior zc ertical left a grip DOL=1 water pondir D psf bottom other live lo. e load of 20 a rectangle veen the bot ers) of truss 76 lb uplift a ith the 2018 ith the 2018 ISJ/TPI 1. bt depict the | Cat. one; nd 1.60 rg. ads. .0psf tom to at joint and | | | 240 | Weight: 100 lb | |
| BOT CHORD | 6-7=-3420/537, 7-8= 1-17=-1176/181, 8-1 16-17=-18/83, 15-16 14-15=-6/136, 13-14 12-13=-351/2509, 1 10-11=-13/45 2-16=-50/106, 3-16= 3-15=-158/133, 13-1 3-13=-130/893, 5-13 5-12=-175/1246, 6-1 1-16=-168/1106, 8-1 | 1656/239, 8-9=0/5 -0=-1312/245 -291/1941, I=0/112, 4-13=-412/ 1-12=-184/1528, 1418/249, 15=-289/1827, 3=-120/600, 12=-1608/312, 11=-384/113, | 4, | UAD CASE(S) | Standard | | | | | | ł | 3 | ER |
| NOTES 1) Unbalance | ed roof live loads have | been considered for | r | | | | | | | | N. | PE-2001 | 018807 |

this design.



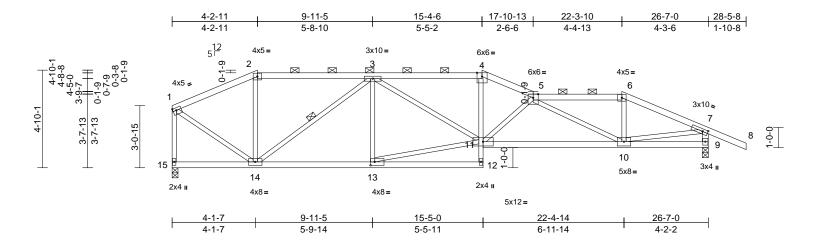


August 7,2023

JONAL E

| | | | | | | RELEASE FOR CONSTRUCTION |
|-----------------------------|---------|------------------|---------------|-------------|---------------------------------|-----------------------------------|
| Job | Truss | Truss Type | Qty | Plv | Lot 176 HT | AS NOTED FOR PLAN REVIEW |
| 000 | 11033 | Truss Type | Giy | l''y | | DEVELOPMENT SERVICES 159955082 |
| B240005 | E3 | Roof Special | 1 | 1 | Job Reference (optional | |
| M/heelen Lumhen M/euerlu // | 6 66934 | But 0.74 C hd 07 | 0000 Deinte 0 | 740 0 10107 | 2022 MiTal: Industrian Inc. Fri | |

Run: 8.71 S Jul 27 2023 Print: 8.710 S Jul 27 2023 MiTek Industries, Inc. Fri Aug 04 (8) 62/1 3/2024 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGr WrCDoi 34264



Scale = 1:57.1

Plate Offsets (X, Y): [1:0-2-0,0-1-8], [7:0-3-3,0-1-8], [13:0-2-8,0-2-0]

| | (X, T). [1.0-2-0,0-1-0], | [7.0-0-0,0-1-0], [10. | 0-2-0,0-2- | 0] | | | | | | | | | |
|--|--|---|--|--|-----------------------------------|--|---|------------------------------|---------------------------------------|---------------------------------------|---------------------------------|----------------------------------|------------------------------------|
| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 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 | 0.48 0.84 0.81 | DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL) | -0.31 0.08 | (loc) 10-11 10-11 9 10-11 | l/defl >999 >999 n/a >999 | L/d 360 240 n/a 240 | PLATES MT20 Weight: 108 lb | GRIP 197/144 FT = 10% |
| LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS | 2x4 SPF No.2 *Exce 2x3 SPF No.2 *Exce Structural wood she 3-8-12 oc purlins, e 2-0-0 oc purlins (3-7 Rigid ceiling directly bracing. 1 Row at midpt | pt* 9-7:2x4 SP No.3 athing directly applie xcept end verticals, -2 max.): 2-4, 5-6. applied or 9-5-7 oc 3-14 I5=0-3-8 LC 6) C 5), 15=-153 (LC 5 | p.2 5; ed or 6; and 6; 7; 8; | chord live loa * This truss h on the bottor 3-06-00 tall h chord and ar Provide mec bearing plate 15 and 219 l This truss is International R802.10.2 a Graphical pu or the orienta bottom chord | | with any d for a liv s where ill fit betv n (by oth anding 1 dance w sections ndard AN n does n | other live loa e load of 20.0 a rectangle veen the botto IS3 lb uplift at s R502.11.1 a VSI/TP1 1. ot depict the s | Dpsf om ; joint ind | | | | | |
| FORCES | (lb) - Maximum Com | | ΄ L' | OAD CASE(S) | Standard | | | | | | | | |
| TOP CHORD | 3-4=-2175/366, 4-5= 5-6=-1677/242, 6-7= 1-15=-1147/172, 7-9 | 2384/382, 1891/247, 7-8=0/54 9=-1298/229 ⊧=-223/1702, | | | | | | | | | | | |
| WEBS | 10-11=-382/2758, 9- 2-14=0/164, 3-14=-1 11-13=-206/1660, 3- 5-11=-801/185, 5-10 1-14=-147/1120, 7-1 | -10=-14/84 002/171, 3-13=-191 -11=-78/567,)=-1227/241, 6-10=0 | /114, | | | | | | | | A | STATE OF M | AISSOUR |
| this design 2) Wind: ASC Vasd=91n II; Exp C; cantilever right expos | ed roof live loads have | been considered for (3-second gust) DL=6.0ps; h=25ft; C ivelope) exterior zor ; end vertical left am 0 plate grip DOL=1.6 | Cat. ie; d 60 | | | | | | | | | SEVI PE-20010 PE-20010 | 118807 2 4 ENGT |

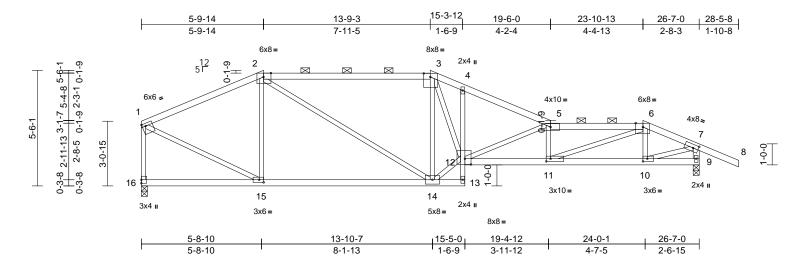
16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com

tom August 7,2023

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)

| | | | | | | RELEASE FOR CONSTRUCTION |
|---------|-------|--------------|-----|------|-------------------------|-----------------------------------|
| Job | Truss | Truss Type | Qty | Plv | Lot 176 HT | AS NOTED FOR PLAN REVIEW |
| 505 | 11035 | Truss Type | Qty | i iy | | DEVELOPMENT SERVICES 159955083 |
| B240005 | E4 | Roof Special | 1 | 1 | Job Reference (optional | |
| | | | | | | 00/10/0001 |

Run: 8.71 S Jul 27 2023 Print: 8.710 S Jul 27 2023 MiTek Industries, Inc. Fri Aug 04 (8) 52/1 3/2 9:24 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3uITXbGI WrCDoi 942694



Scale = 1:54.9

| Plate Offsets () | X Y)· [1·0-2-0 0-1-8] | [2:0-4-3 Edge] [3:0- | -3-12 0-2- | 0] [6:0-4-3 Edd | re] [7:0-2-15 0-3 | 2-01 [10:0- | 2-8 0-1-8] [1 | 1.0-2-8 (| 0-1-8] [1 | 2.0-3-8 | 0-3-41 | [15:0-2-8 0-1-8] | |
|---|---|--|--|---|--|--|--|--|-----------|-------------------------------|--|----------------------------------|------------------------------------|
| Plate Offsets () Loading TCLL (roof) TCDL BCLL BCDL LUMBER TOP CHORD | X, Y): [1:0-2-0,0-1-8], (psf) 25.0 10.0 0.0* 10.0 2x4 SPF No.2 *Exce | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 YES IRC201 | 8/TPI2014) Wind: ASCE Vasd=91mpl | CSI TC BC WB Matrix-S 7-16; Vult=115r h; TCDL=6.0psf; | 0.75 0.90 0.77 mph (3-sec | DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL) ond gust) 0psf; h=25ft; | in -0.20 -0.37 0.09 0.14 Cat. | | l/defl >999 >860 n/a | 0-3-4], L/d 360 240 n/a 240 | PLATES MT20 | GRIP 197/144 FT = 10% |
| BOT CHORD VEBS BRACING TOP CHORD | 1.8E 2x4 SPF No.2 *Exce 2x3 SPF No.2 *Exce Structural wood she 3-5-2 oc purlins, exx | ept* 9-7:2x4 SP No.3 athing directly applie cept end verticals, ar | 3) d or ⁴⁾ | cantilever lef right expose Provide adeo This truss ha chord live loa | closed; MWFRS t and right expo d; Lumber DOL= quate drainage t as been designe ad nonconcurrer nas been design | sed ; end v =1.60 plate o prevent v d for a 10.0 nt with any | ertical left ar grip DOL=1 vater pondin) psf bottom other live loa | nd .60 ig. ads. | | | | | |
| | 2-0-0 oc purlins (2-7 Rigid ceiling directly bracing. (size) 9=0-3-8, 1 Max Horiz 16=-116 (Max Uplift 9=-207 (L Max Grav 9=1332 (L | applied or 6-0-0 oc 16=0-3-8 LC 6) C 5), 16=-124 (LC 5) | , | on the bottor 3-06-00 tall t chord and ar Provide mec bearing plate 16 and 207 l | n chord in all ar by 2-00-00 wide by other membe hanical connect capable of with b uplift at joint 9 designed in acc | eas where will fit betw rs. ion (by oth istanding 1 | a rectangle veen the bott ers) of truss 24 lb uplift a | to | | | | | |
| ORCES | (lb) - Maximum Com Tension | | · /) | International | Residential Coo | de sections | R502.11.1 a | and | | | | | |
| FOP CHORD | 1-2=-1223/185, 2-3= 3-4=-2224/318, 4-5= 5-6=-3432/428, 6-7= 1-16=-1135/149, 7-9 | 2374/315, 1656/196, 7-8=0/54 9=-1314/216 | · |) Graphical pu | | on does no | t depict the | size | | | | | |
| BOT CHORD | 15-16=-17/80, 14-15 13-14=-24/74, 12-13 11-12=-366/3392, 10 9-10=-13/47 | 8=-119/0, 4-12=-4/17 0-11=-142/1526, | | | | | | | | | | GE OF M | MISS |
| WEBS | 2-15=-379/151, 2-14 3-14=-1162/224, 12- 3-12=-221/1608, 5-1 5-11=-680/153, 6-11 6-10=-379/101, 1-15 7-10=-191/1586 | -14=-135/1789, 2=-1369/213, =-251/2046, | | | | | | | | | R | STATE OF M STATE OF M SEVI | |

NOTES

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





| | | | | | | RE | LEASE FOR CONSTRUCTION |
|--|---|--|------|---------------------------------|--|-------------------------|---|
| Job | Truss | Truss Type | Qty | Ply | Lot 176 HT | | S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 159955084 |
| B240005 | E5 | Roof Special Girder | 1 | 1 | Job Reference (optiona | | 159955084 LEE'S SUMMIT, MISSOURI |
| Wheeler Lumber, Waverly, KS | - 66871, | | | | 2023 MiTek Industries, Inc. Fr sB70Hq3NSgPqnL8w3uITXbG | | 2/13/2024 |
| | 2-7-5 2-7-5 | 7-5-2 <u>10-2-0 11-10-1313-10</u> -9-13 2-8-14 1-8-13 2-0- 4x5= 6x6= | | 1 | <u>21-1-3</u> 5-9-7 | <u>25-6-0</u> 4-4-13 | 26-7-0 28-5-8 1-1-0 1-10-8 |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $5^{12}_{5^{12}}$ 3x4 = 2x4 = 19 3x6 = 7-3-14 7-3-14 | m 3 4 4x5= 0 0 5 0 0 0 18 17 3x10= 5x12= | 6x6= | 7 9 16 2x4 II M18AH | M18AHS 6x1 8 1 14 2x4 II IS 8x12 = 20-11-15 5-6-15 | | $6x6 \approx$ 4x8 = 9 10 11 6x12 = $2x4 \parallel$ 26-7-0 0-11-12 |

Scale = 1:56.1

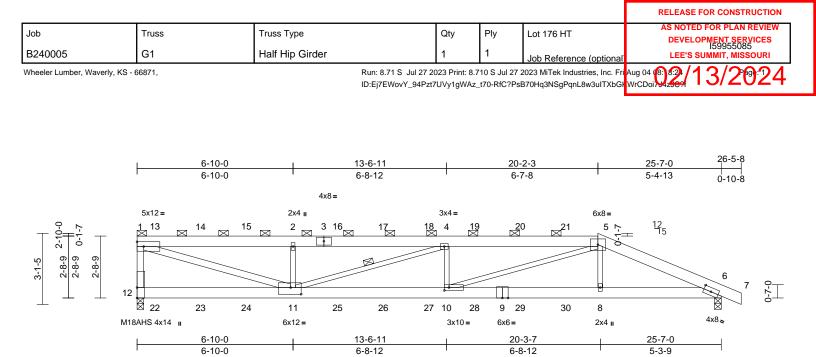
Plate Offsets (X, Y): [8:0-7-0,0-2-4], [10:0-2-9,0-3-0], [17:0-6-0,0-2-4]

| oading | (psf) | Spacing | 2-0-0 | | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|--|-----------------------|-----------------|-----------------|--------------------|-------------|-----------------|-------|-------|--------|-----|----------------|------------|
| CLL (roof) | 25.0 | Plate Grip DOL | 1.15 | | TC | 0.79 | Vert(LL) | | 14-15 | >930 | 360 | MT20 | 197/144 |
| CDL | 10.0 | Lumber DOL | 1.15 | | BC | 0.78 | Vert(CT) | -0.63 | 14-15 | >500 | 240 | M18AHS | 142/136 |
| CLL | 0.0* | Rep Stress Incr | NO | | WB | 0.96 | Horz(CT) | 0.12 | 12 | n/a | n/a | | |
| CDL | 10.0 | Code | IRC20 | 18/TPI2014 | Matrix-S | | Wind(LL) | 0.26 | 14-15 | >999 | 240 | Weight: 118 lb | FT = 10% |
| UMBER | | | 2 |) Wind: ASCE | 7-16; Vult=115 | mph (3-sec | ond aust) | | | | | | |
| OP CHORD | 2x4 SPF No.2 | | | | n; TCDL=6.0psf; | | | Cat. | | | | | |
| OT CHORD | 2x4 SPF No.2 *Exce | ot* 16-7:2x3 SPF N | 0.2 | | closed; MWFRS | | | | | | | | |
| | 15-12:2x4 SPF 2100 | | , | cantilever lef | t and right expo | sed ; end v | ertical left ar | nd | | | | | |
| /EBS | 2x3 SPF No.2 *Exce | ept* 12-10:2x4 SPF | No.2 | right expose | d; Lumber DOL= | =1.60 plate | grip DOL=1 | .60 | | | | | |
| RACING | | | 3 | | quate drainage t | | | | | | | | |
| OP CHORD | Structural wood she | athing directly appli | ed or 4 | | e MT20 plates u | | | ed. | | | | | |
| | 2-8-14 oc purlins, e | xcept end verticals, | and 5 | | is been designe | | | | | | | | |
| | 2-0-0 oc purlins (4-8 | -15 max.): 3-4, 5-6, | 8-9. | | ad nonconcurrer | | | | | | | | |
| OT CHORD | Rigid ceiling directly | applied or 6-0-0 oc | 6 | | nas been design | | | Upst | | | | | |
| | bracing. | | | | n chord in all are | | | om | | | | | |
| /EBS | | 8-15, 8-13 | | | y other membe | | leen the bott | UIII | | | | | |
| EACTIONS | (size) 12=0-3-8, | | 7 | | hanical connect | | ers) of truss | to | | | | | |
| | Max Horiz 19=-115 (| . , | - | | capable of with | | | | | | | | |
| | Max Uplift 12=-287 (| | | | uplift at joint 19 | | | | | | | | |
| | Max Grav 12=1217 | | , 0 |) This truss is | designed in acc | ordance w | ith the 2018 | | | | | | |
| ORCES | (lb) - Maximum Com | pression/Maximum | | International | Residential Cod | de sections | R502.11.1 a | and | | | | | |
| | Tension | | | | nd referenced st | | | | | | | | |
| OP CHORD | 1-2=-60/42, 2-3=-12 | | 176, 9 | | rlin representati | | | size | | | | | |
| | 4-5=-1635/293, 5-6= | , | | | ation of the purli | n along the | top and/or | | | | | | |
| | 6-7=-2352/417, 7-8= 8-9=-944/189, 9-10= | |)/5/ / | bottom chore | | | | | | | | | |
| | 1-19=-45/21, 10-12= | | <i>)</i> /54, 1 | | other connection | | | | | | | | |
| OT CHORD | 18-19=-58/681, 17-1 | | | | Ib up at 32-10- | | | | | | | 000 | TO |
| | 16-17=-13/30, 15-16 | , | 87. | | i5 lb up at 32-9- | | | | | | | OF N | MISSIN |
| | 14-15=-627/4472, 13 | | , | | tion of such con | | | | | | | A TE | -0.0 M |
| | 12-13=-110/57 | , | | responsibility | | | | | | | A | TATE OF M | New |
| /EBS | 2-18=-16/534, 3-18= | -18/228, 4-18=-460 | /125, 1 | | CASE(S) section | on, loads a | oplied to the | face | | | H | S/ BCOI. | |
| | 4-17=-190/834, 5-17 | /=-706/160, | | | are noted as fror | | | | | | 81 | SEVI | ER \ Y |
| | 6-17=-577/108, 15-1 | , | L | OAD CASE(S) | Standard | | | | | | 0 | | 1 * 1 |
| | 6-15=-269/1390, 8-1 | , | 1 |) Dead + Ro | of Live (balance | d): Lumber | Increase=1. | .15, | | | 8 | 0 | |
| | 8-14=-23/139, 8-13= | | | Plate Increa | | , | | | | | N - | Caterin | Services |
| | 9-13=-130/172, 2-19 | 9=-1262/163, | | Uniform Lo | | | | | | | 147 | PE-2001 | 010007 JAB |
| | 10-13=-243/1370 | | | | =-70, 3-4=-70, 4 | , | , | , | | | N. | PE-2001 | 018807 |
| OTES | d as a filling to a dar t | have consider 14 | | | 9-10=-70, 10-11 | 1=-70, 16-1 | 9=-20, 12-1 | 5=-20 | | | Y | 100 | 1 ON B |
| , | ed roof live loads have | been considered to | 1 | | ed Loads (lb) | | | | | | | C'SSIONA | TENA |
| this design | 1. | | | Vert: 9=5 | 51 (B), 13=68 (B | 5) | | | | | | CONA | L'A |
| | | | | | | | | | | | | un | |

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August 7,2023

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Scale = 1:50.5

| Plate Offsets (X_Y) | [6:0-4-0,0-2-2], [10:0-2-8,0-1-8], [11:0-5-8,0-3-8] |
|---------------------|---|
| | [0.0-4-0,0-2-2], [10.0-2-0,0-1-0], [11.0-0-0,0-3-0] |

| | | 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 | | тс | 0.86 | Vert(LL) | | 10-11 | >955 | 360 | M18AHS | 142/136 |
| TCDL | 10.0 | Lumber DOL | 1.15 | | BC | 0.98 | Vert(CT) | | 10-11 | >519 | 240 | MT20 | 197/144 |
| BCLL | 0.0* | Rep Stress Incr | NO | | WB | 0.75 | Horz(CT) | 0.09 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC201 | B/TPI2014 | Matrix-S | | Wind(LL) | 0.28 | 10-11 | >999 | 240 | Weight: 120 lb | FT = 10% |
| - | | | - | | | | | | | | 10.0 | - | |
| | | **** | , | | as been designed ad nonconcurrent | | | do | | | | | 354 (F), 13=-115 (F), 103 (F), 17=-103 (F), |
| TOP CHORD | 2x6 SPF No.2 *Exce | ept* 3-5:2x6 SPF 165 | | | has been designed | | | | | | | | 103 (F), 17=-103 (F), 103 (F), 21=-103 (F), |
| BOT CHORD | 1.4E 2x6 SPF 1650F 1.4E | = *Event* 0 6.2v6 8 | , | | n chord in all area | | | psi | | | | =-43 (F), 24=-43 | |
| BOTCHORD | No.2 | = Except 9-0.2x0 3 | FF | | ov 2-00-00 wide w | | | om | | | | '=-43 (F), 28=-43 | |
| WEBS | 2x3 SPF No.2 *Exce | ept* 12-1:2x4 SPF No | .2. | chord and any other members. $30=43$ (F) | | | | | | | | | (.,,==,, |
| | 11-1:2x4 SPF 2100F | | 7) | · / · · · · · · · · · · · · · · · · · · | | | | | | | | | |
| BRACING | | | | | e capable of withs | tanding 4 | 128 lb uplift at | joint | | | | | |
| TOP CHORD | Structural wood she | athing directly applie | dor | | b uplift at joint 6. | | | | | | | | |
| | | xcept end verticals, a | and 8) | | designed in accor | | | | | | | | |
| | 2-0-0 oc purlins (2-5 | | | | Residential Code nd referenced star | | | na | | | | | |
| BOT CHORD | 0 0 , | applied or 8-0-10 oc | 9) | | Ind representation | | | ize | | | | | |
| WEBS | bracing. 1 Row at midpt | 4-11 | 0) | | ation of the purlin | | | 120 | | | | | |
| | | | | bottom chord | | J | | | | | | | |
| | (size) 6=0-3-8, Max Horiz 12=-103 (| | 10 | | other connection | | | | | | | | |
| | Max Uplift 6=-397 (L | | | | ficient to support of | | | | | | | | |
| | Max Grav 6=2050 (L | | | | 74 lb up at 0-9-8 | | | b up | | | | | |
| FORCES | (lb) - Maximum Corr | | ., | | 6 lb down and 76 6 lb up at 6-9-8, 1 | | | in at | | | | | |
| 1 011020 | Tension | | | | down and 76 lb u | | | | | | | | |
| TOP CHORD | 1-12=-1968/488, 1-2 | 2=-4781/982, | | | at 12-9-8, 126 lb | | | | | | | | |
| | 2-4=-4781/982, 4-5= | | | | 126 lb down and 7 | | | | | | | | |
| | 5-6=-4514/876, 6-7= | | | | and 76 lb up at 1 | | | | | | | | The second se |
| BOT CHORD | 11-12=-10/169, 10-1 | , | | | t 0-9-8, 67 lb dov | | , | | | | | TATE OF M | ALC: NO |
| WEBS | 8-10=-749/4048, 6-8 | | | | down at 6-9-8, 67 | | | | | | | AFUTT | IIS'S |
| WEDS | 1-11=-992/4906, 2-1 4-11=-1311/280, 4-1 | | | | 9-8, 67 lb down at down at 16-9-8, | | | | | | A | | N.S |
| | 5-10=-438/2189, 5-8 | | | | own and 107 lb up | | | | | | R | SCOT | ГМ. VEN |
| NOTES | 2.0 .00.2.00,00 | | | | design/selection o | | | | | | 7 | SEVI | ER \'Y |
| | ed roof live loads have | been considered for | | | ponsibility of othe | | | | | | the | | |
| this design | | | |) In the LOAD | CASE(S) section | , loads a | pplied to the f | ace | | | ØY | IK | la ITA |
| | CE 7-16; Vult=115mph | | | of the truss a | are noted as front | (F) or ba | ck (B). | | | _ | | COULING | |
| | nph; TCDL=6.0psf; BC | | | DAD CASE(S) | | | | | | | K7 | PE-2001 | 010007 AB |
| | xp C; Enclosed; MWFRS (envelope) exterior zone; | | | | of Live (balanced) | : Lumber | Increase=1. | 15, | | | N | PE-2001 | 018807 |
| | ntilever left and right exposed ; end vertical left and ht exposed; Lumber DOL=1.60 plate grip DOL=1.60 | | | Plate Increa | | | | | | | Y | 198 | |
| | vide adequate drainage to prevent water ponding. | | | Uniform Lo | . , | 12 20 | | | | | | SSIONA | LENA |
| | are MT20 plates unles | | | | =-70, 5-7=-70, 6-1 ed Loads (lb) | 12=-20 | | | | | | CONT | - A |
| ., , , , , piatos c | | | | Concentiati | eu Luaus (in) | | | | | | | un | |

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August 7,2023

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 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not besign value to dury with with where outputs into design is based only door parameters shown, and is for an individual building design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members 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, erection and bracing of trusses and truss systems, see **ANS/TPH1 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)

| Job | Truss | Truss Type | Qty | Ply | Lot 176 HT | RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW |
|--|-----------------------------|--|-------------|-------------|--|---|
| B240005 | G2 | Roof Special | 1 | 1 | Job Reference (optional | DEVELOPMENT SERVICES 159955086 LEE'S SUMMIT, MISSOURI |
| Wheeler Lumber, Waverly, KS - | 66871, | | | | 2023 MiTek Industries, Inc. Fri B70Hq3NSgPqnL8w3uITXbGł | |
| | 2-3-8 | 8-6-7 13-2-11 6-2-15 4-8-4 | 15-2 2-0 | | 19-8-0 4-5-5 | 24-3-14 26-2-6 4-7-14 1-10-8 |
| | | 4x8 = | | | | |
| 6-10-2 4-7-15 4-7-15 1-19 1-11-7 1-11-7 1-11-7 | 3x4 = 2x4 = 2 1 14 | | 4x8= | 6x6 = 5 | 3x6± 6 | 3x4 II 7 9 8 9 |
| | 3x6= 3> | 3 15 12 16 x4= 4x8= | 11 4x8= | 10 3x4 = | | ⊠ 3x10 = |
| | 4-1-11 | <u>13-1-7</u> 8-11-12 | 15-3 | | 24-3-14 8-11-15 | |

| Scale = | 1:51.5 |
|---------|--------|
|---------|--------|

| 00010 - 1.01.0 | | | | | | | | | | | | | |
|---|---|---|--|--|-----------------------------------|---|---|--------------------------------------|------------------------------------|---------------------------------------|---------------------------------|----------------------------------|------------------------------------|
| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 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 | 3/TPI2014 | CSI TC BC WB Matrix-S | 0.53 0.80 0.99 | DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL) | in -0.25 -0.43 0.05 0.04 | (loc) 11-13 11-13 9 11 | l/defl >999 >674 n/a >999 | L/d 360 240 n/a 240 | PLATES MT20 Weight: 102 lb | GRIP 197/144 FT = 10% |
| BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS FORCES | 9-7:2x4 SP No.3 Structural wood she 4-1-7 oc purlins, ex 2-0-0 oc purlins (4-7 Rigid ceiling directly bracing. (size) 9=0-3-8, Max Horiz 14=-111 / Max Uplift 9=-50 (LC Max Grav 9=1251 (I (lb) - Maximum Con Tension 1-2=-39/76, 2-3=-10 | / applied or 10-0-0 oc 14= Mechanical (LC 4) C 9) LC 2), 14=1141 (LC 2 | 6) 7) d or nd 8) 9) 2) LO | on the bottom 3-06-00 tall b chord and an Refer to girdd Provide mecl bearing plate 9. This truss is International R802.10.2 ar Graphical pu | | as where vill fit betw s, with BC russ conr on (by oth tanding 5 rdance w e sections indard AN n does no | a rectangle veen the botto DL = 10.0psl rections. ers) of truss t i0 lb uplift at j ith the 2018 R 502.11.1 a ISI/TPI 1. ot depict the s | om f. to joint and | | | | | |
| BOT CHORD WEBS | 9-10=-34/1492 2-13=0/533, 3-13=-2 4-11=-832/92, 5-11= | '43, 7-9=-384/51 =0/960, 10-11=0/148 260/56, 3-11=-47/105 =-9/239, 5-10=0/208, =-1489/97, 6-10=-97/ | 8, | | | | | | | | | | T |
| this design. 2) Wind: ASCI Vasd=91mp | d roof live loads have E 7-16; Vult=115mph ph; TCDL=6.0psf; BC | been considered for | at. | | | | | | | | | STATE OF M | MISSOLIRI ER |

- and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.603) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.

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August 7,2023

NUMBER

PE-2001018807

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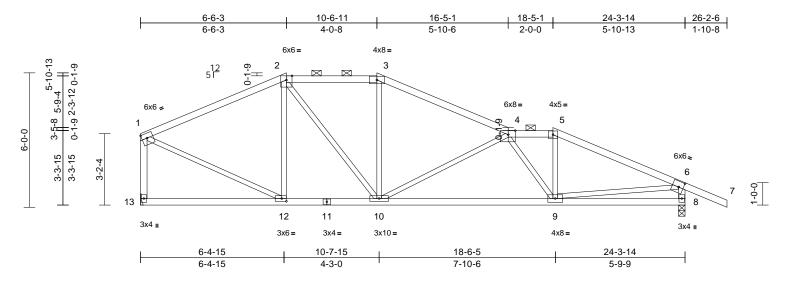
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| Jack Trues Trues Trues Trues Trues Dyn Ply Let 179 HT Alt NOTE Or PLA HERK WARK STREET, | | | | | | | | | | | RELEASE FOR CONSTRUCTION |
|---|---|--|--|--|--|--|---|--|-------------------|---------------------------------|---|
| E24005 G3 Rod Special 1 | Job | Truss | | Truss Type | | Qty | | Ply | Lot 176 HT | г | |
| Protect Luckus, Wavey, V3 - 6001. Aug. 9 19, 421 203 The ATTR 5 JUST 203 The Instantion of the SUD ALL 2020 AL | B240005 | G3 | | Roof Spec | ial | 1 | | 1 | Job Roford | anco (ontiona | |
| Image: state is a state state is a state is | Wheeler Lumber, Waverly, KS - 6 | 6871, | | | Run: 8.71 S Jul 2 | 7 2023 Pri | nt: 8.71 | 0 S Jul 27 2 | | | |
| Image: State Image: State< | | | | | ID:Ej7EWovY_94 | 2t7UVy1g | WAz_t | 70-RfC?PsI | 370Hq3NSgPo | qnL8w3ulTXbG | |
| 40° | | <u> </u> | | | 0 110 | | | 16-9-14 | + | | |
| Image: space of the space | | · | 4-4-4 | 3-9- | |)-6 | | 2-0-0 | • | 7-6-0 | 1-10-8 |
| Image: Start 1.3.9 Image: | | | | | | | | | | | |
| Julia IL IL <thi< td=""><td>6-8-0 15 4-1-8 15 0-1-9⁽</td><td></td><td></td><td>3x4 = 0-1-0</td><td></td><td></td><td>6</td><td>5</td><td></td><td></td><td></td></thi<> | 6-8-0 15 4-1-8 15 0-1-9 ⁽ | | | 3x4 = 0-1-0 | | | 6 | 5 | | | |
| 3/10= 3/10 <tr< td=""><td><u> </u></td><td></td><td>10=</td><td></td><td>12 11</td><td></td><td></td><td></td><td>10</td><td></td><td></td></tr<> | <u> </u> | | 10= | | 12 11 | | | | 10 | | |
| Bits Social 2 16-11-2 24-3-14 Jobies 1, S, Y): [5:0-3-13,Edge], [9:Edge,0-7-11] Image: Comparison of the state of th | | 541 | 10 - | | 4x10= | | | | 3x10= | | 10x12= |
| Solide + 153.9 9-0-12 7-10-6 7-4-12 Plate Offsets (X, Y): [5:0-3-13,Edge], [9:Edge,0-7-11] Edge,0-7-11] Edge,0-7-11] Edge,0-7-11] Loading (ps) Plate Ging DL 1.15 TC 0.9 VertILL 0.16 12.3-3983 240 DCLL 0.00 Lumber DOL 1.15 BC 0.69 VertILL 0.01 9 n/n BCDL 10.0 Lumber A Respires incr YES BC 0.69 VertILL 0.04 9 n/n LUMBER Code IRC2019/TP12014 Matrix-S 0.69 VertILL 0.03 10-12 >999 240 Weight: 101 Ib FT = 10% LUMBER Code 10.0 Case in the totic schare in the bottom chord in all arease dol 20.0pc in othe bottom chord in all arease dol 20.0pc in othe bottom chord in all arease dol 20.0pc in othe bottom chord in all arease dol 20.0pc in othe bottom chord in all arease dol 20.0pc in othe bottom chord in all arease dol 20.0pc in othe bottom chord in all arease dol 20.0pc in othe bottom chord in all arease dol 20.0pc in othe bottom chord in all arease dol 20.0pc in othe bottom chord in all arease dol 20.0pc in othe bottom chord in all arease dol 20.0pc in othe bottom chord in all arease do | | | | | 3x6 = | | | | | | |
| Plate Offsets (X, Y): [5:03-13.Edge], [9:Edge.0-7-11] Loading TCLL (rool) (pst) Ppacing Plate Grip D0.1 2-0-0 TSD CSI TC 0.0 BC DEFL Vert(CT) 0.1 1:5 TSC 0.9 Vert(L1) PLATES GRIP MT20 197/144 BCL 10.0 Tesp Stress Incr YES WB 0.89 Vert(CT) 0.03 1:2-13 2989 240 Weight: 101 Ib FT = 10% LUMBER TOP CHORD 2:4 SPF No.2 ** | | - | | | | | | | | | |
| Loading Cpcin Spacing 2-0-0 CSI DEFL in (loc) Udd Lud PLATES GRIP TCDL 10.0 Lumber DOL 115 TC 0.88 Ver(CT) 0.03 12:13 3-999 360 MT20 197/144 BCL 0.0 ¹ Rep Stress Incr YES WE 0.89 Ver(CT) 0.04 9 n/a Weight: 101 lb FT = 10% UMMER TOP CHORD 2x4 SPF No.2 PC204 PC208/TPI2014 Watix-S Wind(LL) 0.03 10:12 >999 240 Weight: 101 lb FT = 10% UMMER TOP CHORD 2x4 SPF No.2 PC224 SP No.3 Social and any other members. Social and | | 13 Edge] [9 |):Edge ()-7-11] | | | | | | | | |
| 3) Provide adequate drainage to prevent water ponding. 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 4) This trust has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. | TCLL (roof) TCDL BCLL BCDL LUMBER TOP CHORD 2x4 SPF No BOT CHORD 2x4 SPF No 09-7:2x4 SPF No WEBS 2x3 SPF No 09-7:2x4 SPF NO 0 | 25.0 Pi 10.0 Lu 0.0* R 10.0 C 2 2 2 *Except* No.3 pod sheathin urlins, except 2 *Except* 10 *LC 9 1229 (LC 1) 10 *LC 9 1229 (LC 1) 10 *LC 9 1229 (LC 1) 10 *LC 9 1229 (LC 1) 13 *12=*44/3 3 *12=*44/3 13 *17=*00 ds have been 115mph (3-*3 post; BCDL= FRS (envelopment grip DOL=1 grip DOL=1 grip DOL=1 | ate Grip DOL umber DOL ep Stress Incr ode 13-1:2x4 SPF No. Ing directly applied pt end verticals, ar nax.): 3-4, 5-6. olied or 10-0-0 oc 3 Mechanical 4) 1), 13=1075 (LC 1) ission/Maximum /57, 3-4=-1008/64 i3/66, 6-7=-1723/4 i, 7-9=-1157/88 1635, 9-10=-65/43(84, 4-12=-16/189, 0/27, 6-10=0/337, 1068 en considered for second gust) =6.0psf; h=25ft; Ca ope); cantilever lef and right exposed; 1.60 int water ponding. 10.0 psf bottom | 1.15 1.15 YES IRC2018/TP 5) * T on 3-(2, ch 6) Re 7) Pr or 9) Gr 9) Gr 0 LOAD | TC BC WB Matrix-S This truss has been designed the bottom chord in all areas 06-00 tall by 2-00-00 wide will ord and any other members. efer to girder(s) for truss to tru ovide mechanical connection aring plate capable of withsta is truss is designed in accord ternational Residential Code s 302.10.2 and referenced stand aphical purlin representation the orientation of the purlin al ttom chord. | 0.98 0.69 0.89 ior a live where a fit betwee ss conne (by other nding 49 ance with ections F lard ANS does not | Vert(LI Vert(C Horz(C Wind(L load o rectan een the ections. rs) of tr Ib upli n the 2 R502.1 SI/TPI 1 depict | -T; -0. CT) -0. CT) 0. LL) 0. of 20.0psf ngle bottom russ to ift at joint 2018 1.1 and 1. t the size | 1612-133312-13049 | >999 360 >883 240 n/a n/a | MT20 197/144 Weight: 101 lb FT = 10% |



| | | | | | | RELEASE FOR CONSTRUCTION |
|---------|-------|--------------|-----|-----|-------------------------|-----------------------------------|
| Job | Truss | Truss Type | Qty | Plv | Lot 176 HT | AS NOTED FOR PLAN REVIEW |
| | | | | | | DEVELOPMENT SERVICES 159955088 |
| B240005 | G4 | Roof Special | 1 | 1 | Job Reference (optional | LEE'S SUMMIT, MISSOURI |
| | | | | | | 00/10/0001 |

Run: 8.71 S Jul 27 2023 Print: 8.710 S Jul 27 2023 MiTek Industries, Inc. Fri Aug 04 (8) 52/1 3/2 9:24 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3uITXbGI WrCDoi 942694



Scale = 1:51.5

| Plate Offsets (X, Y | (): [1:Edge,0-2-8], | [4:0-3-13,Edge |], [6:0-2-9,0-3-0], [12 | :0-2-8,0-1-8] | | | | |
|---------------------|---------------------|----------------|-------------------------|---------------|------|----|-------|---|
| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | I |

| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | | тс | 0.65 | Vert(LL) | -0.11 | 9-10 | >999 | 360 | MT20 | 197/144 | |
|--|---|--|--|---|---|---|---|-----------------------------------|------|-------------|-----|----------------|--|---|
| TCDL | 10.0 | Lumber DOL | 1.15 | | BC | 0.60 | Vert(CT) | -0.25 | 9-10 | >999 | 240 | 11120 | 13//144 | |
| BCLL | 0.0* | Rep Stress Incr | YES | | WB | 0.00 | Horz(CT) | 0.03 | 8 | >999 n/a | n/a | | | |
| BCDL | 10.0 | Code | | 8/TPI2014 | Matrix-S | 0.78 | Wind(LL) | 0.03 | 9-10 | >999 | 240 | Weight: 98 lb | FT = 10% | |
| LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS | 2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 *Exce 8-6:2x4 SP No.3 Structural wood shee 3-9-14 oc purlins, e: 2-0-0 oc purlins (4-7 Rigid ceiling directly bracing. | pt* 13-1:2x4 SPF Not athing directly applie xcept end verticals, i -4 max.): 2-3, 4-5. applied or 10-0-0 oc I3= Mechanical LC 4) | 5) 5.2, 6) 7) ed or and 8) | * This truss I on the bottor 3-06-00 tall b chord and ar Refer to gird Provide mec bearing plate 8. This truss is International R802.10.2 a Graphical pu | has been design n chord in all a yy 2-00-00 widd yy other member (s) for truss t hanical connec e capable of with designed in ac Residential Cc nd referenced s riln representa ation of the pur | reas where e will fit betw ers. o truss conr ction (by oth thstanding 4 cordance w ode sections standard AN tion does no | e load of 20. a rectangle veen the bott nections. ers) of truss 4 lb uplift at ith the 2018 r.R502.11.1 a ISI/TPI 1. ot depict the | Opsf tom to joint and | 9-10 | | 240 | weignit. 90 ib | <u><u><u></u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u> | |
| | Max Grav 8=1229 (L | , | 1) LO | OAD CASE(S) | Standard | | | | | | | | | |
| FORCES | (lb) - Maximum Com Tension | pression/Maximum | | | | | | | | | | | | |
| TOP CHORD | 1-2=-1089/37, 2-3=- 4-5=-1518/44, 5-6=- 1-13=-1012/21, 6-8= | 1743/26, 6-7=0/54, | /35, | | | | | | | | | | | |
| BOT CHORD | 12-13=-12/101, 10-1 8-9=-35/237 | 2=0/936, 9-10=0/18 | 18, | | | | | | | | | | | |
| WEBS | 2-12=-314/58, 2-10= 4-10=-723/94, 4-9=- 1-12=0/963, 6-9=0/1 | 534/46, 5-9=0/406, | ō, | | | | | | | | | OF J | MISSO | |
| this design 2) Wind: ASC Vasd=91m II; Exp C; E and right e | d roof live loads have | been considered for (3-second gust) DL=6.0psf; h=25ft; C ivelope); cantilever I eft and right expose | Cat. eft | | | | | | | , | R | SCOT SEV | I M. HER Serves | 2 |

- Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding. 3) 4)
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



L/d PLATES

GRIP

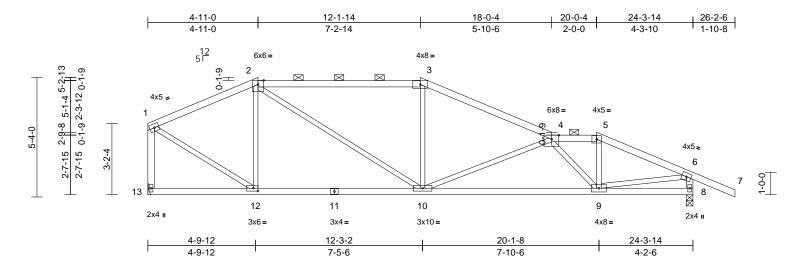
l/defl

 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 to dury with with where outputs into design is based only door parameters shown, and is for an individual building design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members 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, erection and bracing of trusses and truss systems, see **ANS/TPH1 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 | Lot 176 HT | AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES |
| B240005 | G5 | Roof Special | 1 | 1 | Job Reference (optional | DEVELOPMENT SERVICES 159955089 LEE'S SUMMIT, MISSOURI |
| Miles also a la sub a a Miles a de Ko | 00071 | | | | | |

Run: 8.71 S Jul 27 2023 Print: 8.710 S Jul 27 2023 MiTek Industries, Inc. Fri Aug 04 (6) 62 / 1 3/2 0:24 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGf WrCDoi 24



Scale = 1:51.4

Plate Offsets (X, Y): [4:0-3-13,Edge], [12:0-2-8,0-1-8]

| | (, .), [| 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 | | тс | 0.59 | Vert(LL) | -0.10 | 9-1Ó | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | | BC | 0.66 | Vert(CT) | -0.23 | 9-10 | >999 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | | WB | 0.67 | Horz(CT) | 0.04 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC201 | 8/TPI2014 | Matrix-S | | Wind(LL) | 0.04 | 9-10 | >999 | 240 | Weight: 94 lb | FT = 10% |
| LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS | 1.8E 2x4 SPF No.2 *Exce 8-6:2x4 SP No.3 Structural wood she 3-8-11 oc purlins, e 2-0-0 oc purlins (4-8 Rigid ceiling directly bracing. | ept* 13-1:2x4 SPF N athing directly applie xcept end verticals, -11 max.): 2-3, 4-5. applied or 10-0-0 or 13= Mechanical (LC 4) | o.2, 6 7 ed or and 8 c 9 | on the bottor 3-06-00 tall h chord and ar) Refer to gird) Provide mec bearing plate 13 and 39 lb) This truss is International R802.10.2 a | | eas where will fit betw rs. truss conr ion (by oth astanding 3 ordance w de sections tandard AN on does no | a rectangle veen the both nections. ers) of truss i Ib uplift at ju ith the 2018 i R502.11.1 i ISI/TPI 1. ot depict the | tom to bint and | | | | | |
| | Max Grav 8=1229 (I | | 1) | | | | | | | | | | |
| FORCES | (lb) - Maximum Com Tension | pression/Maximum | | | | | | | | | | | |
| TOP CHORD | 1-2=-1001/45, 2-3=- 4-5=-1479/22, 5-6=- 1-13=-1039/21, 6-8= 12-13=-20/90, 10-12 8-9=-10/96 | 1684/8, 6-7=0/54, =-1191/52 2=0/886, 9-10=0/200 | 03, | | | | | | | | | | |
| WEBS | 2-12=-414/83, 2-10= 4-10=-671/98, 4-9=- 1-12=-7/1009, 6-9=0 | 800/53, 5-9=0/458, | 6, | | | | | | | | | TEOF | MISSO |
| NOTES | | | | | | | | | | | B | SCOT | NOV MT |
| this desig Wind: ASI Vasd=91r II; Exp C; and right of Lumber D Provide ar This truss | ed roof live loads have n. CE 7-16; Vult=115mph mph; TCDL=6.0psf; BC Enclosed; MWFRS (er exposed ; end vertical I/OL=1.60 plate grip DC dequate drainage to pr has been designed fo load nonconcurrent wi | i (3-second gust) DL=6.0psf; h=25ft; (nvelope); cantilever l left and right expose)L=1.60 event water ponding r a 10.0 psf bottom | Cat. left d; g. | | | | | | | ~ | | PE-2001 | BER 018807 |

August 7,2023

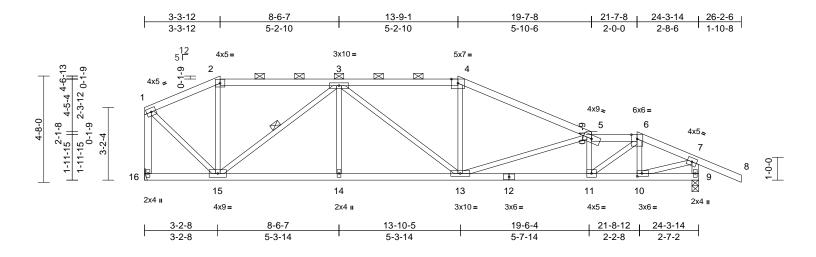
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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)



| | | | | | | RELEASE FOR CONSTRUCTION |
|---------|---------|--------------|-----|-----|-------------------------|-----------------------------------|
| Job | Truss | Truss Type | Qty | Ply | Lot 176 HT | AS NOTED FOR PLAN REVIEW |
| 50.0005 | | | | | | DEVELOPMENT SERVICES 159955090 |
| B240005 | G6 | Roof Special | 1 | 1 | Job Reference (optional | LEE'S SUMMIT, MISSOURI |
| | 0 0007/ | | | | | |

Wheeler Lumber, Waverly, KS - 66871,

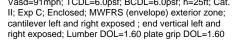
Run: 8.71 S Jul 27 2023 Print: 8.710 S Jul 27 2023 MiTek Industries, Inc. Fri Aug 04 (6) 62 / 1 3/2 0 24 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGr WrCDoi 34264



| Scale = | 1:50.6 |
|---------|--------|
|---------|--------|

Plate Offsets (X, Y): [10:0-2-8,0-1-8]

| | (X, 1): [10:0 2 0;0 1 0 |] | | | | | | | | | | | |
|---|--|--|--|---|--|--|---|--------------------------|---------------------------------------|---------------------------------------|---------------------------------|---------------------------------|------------------------------------|
| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 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 IRC20 ⁷ | 18/TPI2014 | CSI TC BC WB Matrix-S | 0.65 0.63 0.64 | DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL) | -0.19 0.05 | (loc) 11-13 11-13 9 11-13 | l/defl >999 >999 n/a >999 | L/d 360 240 n/a 240 | PLATES MT20 Weight: 98 lb | GRIP 197/144 FT = 20% |
| LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD | 2x4 SPF No.2 2x3 SPF No.2 *Exce 16-1:2x4 SP No.3 Structural wood she 3-1-13 oc purlins, e 2-0-0 oc purlins (3-9 Rigid ceiling directly | athing directly applie xcept end verticals, a -1 max.): 2-4, 5-6. | ed or and 6 7 | This truss ha chord live lo * This truss l on the bottoo 3-06-00 tall l chord and aa Refer to gird Provide mee bearing plate | quate drainage to as been designed ad nonconcurren as been designe m chord in all are by 2-00-00 wide v ny other member er(s) for truss to hanical connectii e capable of with: b uplift at joint 9. | d for a 10.0 t with any ed for a liv eas where will fit betw s. truss conr on (by oth standing 1 | D psf bottom other live loa e load of 20. a rectangle veen the bott nections. ers) of truss | ads. Opsf om to | | | | | |
| WEBS REACTIONS | | C 5), 16=-143 (LC 4 | | This truss is International R802.10.2 a Graphical pu or the orienta | designed in acco Residential Cod nd referenced sta Irlin representation ation of the purlin | ordance w e sections andard AN on does no | R502.11.1 a SI/TPI 1. ot depict the s | | | | | | |
| FORCES | (lb) - Maximum Com | | , | bottom chore OAD CASE(S). | | | | | | | | | |
| TOP CHORD | Tension 1-2=-802/148, 2-3=- 4-5=-1754/249, 5-6= 6-7=-1446/163, 7-8= 1-16=-1053/151 | -2290/279, | , | | | | | | | | | | |
| BOT CHORD | 15-16=-21/112, 14-1 13-14=-147/1463, 1 10-11=-107/1319, 9- | 1-13=-217/2246, | | | | | | | | | | OF J | MISS |
| WEBS | 2-15=-24/115, 3-15= 3-13=-96/115, 4-13= 5-11=-747/160, 6-11 6-10=-367/61, 7-10= 1-15=-135/972 | -972/154, 3-14=0/21 0/336, 5-13=-730/18 =-155/1266, | , | | | | | | | | | STATE OF I | ТМ. \? \ |
| this design 2) Wind: ASC Vasd=91n II; Exp C; cantilever | ed roof live loads have | (3-second gust) DL=6.0psf; h=25ft; C velope) exterior zon ; end vertical left and | Cat. le; d | | | | | | | | | PE-2001 | 018807 / 二日 |





August 7,2023

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| | | | | | | | | RELE | ASE FOR CONSTRUCTION |
|--|--|--|--------------|--|--------------------------|--|---------------------------|-------------------------|---|
| Job | Trus | S | Truss Typ | e | Qty | Ply | Lot 176 HT | | OTED FOR PLAN REVIEW VELOPMENT SERVICES 159955091 |
| B240005 | G7 | | Roof Spe | ecial Girder | 1 | 1 | Job Reference (opti | | 159955091 E'S SUMMIT, MISSOURI |
| Wheeler Lumber, | | | | | | | 2023 MiTek Industries, In | | |
| | | | | ID:Ej7EWovY_9 | 4Pzt7UVy1gWAz | _t70-RfC?Ps | B70Hq3NSgPqnL8w3uIT | XbGI WrCDoi794290 | |
| | . 1- | 8-0. 8- | 0-10 | 12-0-2 | 15-4-4 | | 21-2-11 | 23-2-11 24 | -3-14 26-2-6 |
| | 1- | | -4-1 | 3-11-8 | 3-4-2 | | 5-10-6 | 2-0-0 1 | -3-14 26-2-6 -1-3 1-10-8 |
| | - | 1 <u>2</u> | | | | | | | |
| | 5 | 8x8= | | | | | | | |
| | 5x8 | | | 3x4 = 2 | x4 u | 6x8= | | | |
| | | 2 | | | ··· · | 5 | | | |
| 2 0-1; 2 0-1; 2 0-1; | | | | | | | | | 4x5 ≈ |
| -0 -0 3-9-43-10-13 2-3-12 ∩-1-0 | | | | 16 | 15 | | | 10x12 = 6x8 | = |
| | -1-9 3-2-4 | | | | 210 | | | | 7 8 |
| 4-0. 1-5-8 1-3-15 1-3-15 | • " | | | 2-0-0 | | | | | 9 00 |
| ⊥ <u>-</u> ⊺ | 19 🗧 | 18 | | | <u> </u> | 13 | | 12 11 | |
| | 2x4 II | | | M18AHS 10x16 = 2x4 II 8x12 = 2 | x4 u | 6x8= | | | ×6= |
| | | | | | | | | | 2x4 II |
| | <u>1-</u> -1- | 7-5 8- | 1-14 | 11-10-14 | 15-5-8 | | 21-1-7 | 23-3-15 24 | -3-14 |
| | ' 1-' | 7-5 6 | -6-9 | 3-9-0 | 3-6-10 | I | 5-7-14 | 2-2-8 ₀₋ | 11-15 |
| Scale = 1:50.5 Plate Offsets (X | (, Y): [2:0-4-3,Edge | e], [5:0-4-3,Edge], [6:0- | -3-13,Edge], | [7:0-4-3,Edge], [11:0-2-8,0-1-4 | 8], [12:0-2-8,0- | 1-8] | | | |
| Loading | (psf) | Spacing | 2-0-0 | CSI | DEF | L | in (loc) l/defl | L/d PLATES | GRIP |
| TCLL (roof) TCDL | 25.0 10.0 | Plate Grip DOL Lumber DOL | 1.15 1.15 | TC BC | 0.87 Vert(0.80 Vert(| . , | | 360 MT20 240 M18AHS | 197/144 142/136 |
| BCLL | 0.0* | Rep Stress Incr | NO | WB | 0.96 Horz | (CT) 0 | .34 10 n/a | n/a | |
| BCDL | 10.0 | Code | IRC2018/T | | Wind | () | | 240 Weight: 105 | ib FT = 10% |
| LUMBER TOP CHORD | | cept* 2-5:2x4 SPF 210 | 0F t | Jnbalanced roof live loads hav his design. | | | Vert: 11= | ed Loads (lb) 66 (B) | |
| BOT CHORD | 1.8E 2x4 SPF No.2 *Ex | cept* 17-3,4-14:2x3 SF | ۶F | /vind: ASCE 7-16; Vult=115mp /asd=91mph; TCDL=6.0psf; E | CDL=6.0psf; h | =25ft; Cat. | | | |
| WEBS | No.2, 16-15:2x4 S 2x3 SPF No.2 *Ex | PF 2100F 1.8E cept* 16-2,10-8:2x4 SF | | I; Exp C; Enclosed; MWFRS (cantilever left and right expose | | | | | |
| BRACING | No.2 | • • | r | ight exposed; Lumber DOL=1 Provide adequate drainage to | | | | | |
| TOP CHORD | | neathing directly applie | dor 4) / | All plates are MT20 plates unle This truss has been designed | ess otherwise i | ndicated. | | | |
| | | except end verticals, a -9-9 max.): 2-5, 6-7. | (| chord live load nonconcurrent | with any other | live loads. | | | |
| BOT CHORD | Rigid ceiling direct bracing, Except: | ly applied or 10-0-0 oc | , , , | ^r This truss has been designed on the bottom chord in all area | s where a recta | angle | | | |
| REACTIONS (| 6-0-0 oc bracing: ' | 11-12,10-11. 8, 19= Mechanical | | 3-06-00 tall by 2-00-00 wide w chord and any other members | | ne bottom | | | |
| 1 | Max Horiz 19=-139 |) (LC 4) | 8) 6 | Refer to girder(s) for truss to tr Provide mechanical connection | | | | | |
| | | ↓ (LC 5), 19=-171 (LC √ 7 (LC 1), 19=1075 (LC | 1) | bearing plate capable of withst 19 and 264 lb uplift at joint 10. | anding 171 lb | uplift at join | t | | |
| FORCES | (lb) - Maximum Co Tension | mpression/Maximum | 9) 1 | This truss is designed in accor | | | | | |
| TOP CHORD | 1-2=-512/105, 2-3 3-4=-4308/644, 4-4 | | F | nternational Residential Code R802.10.2 and referenced star | ndard ANSI/TP | l 1. | | | |
| | 5-6=-1957/295, 6- | 7=-2505/344, | ć | Graphical purlin representation or the orientation of the purlin | | | | ~ | 1111 |
| | 8-10=-1179/277 | =0/54, 1-19=-1102/148 | 11) H | oottom chord. Hanger(s) or other connection | device(s) shall | be | | 5 01 | F MISSO |
| BOT CHORD | 18-19=-20/114, 17 3-16=-351/156, 15 | ′-18=-2/73, 16-17=0/11 i-16=-595/4430, | 1 | provided sufficient to support of down and 8 lb up at 29-5-11 of | | | | ANT/ | N SA |
| | | -272/93, 13-14=-8/51, | C | down and 834 lb up at 29-4-1 | 1 on bottom ch | ord. The | | | OTT M. |
| WEBS | 10-11=-64/49 | | r | design/selection of such conne esponsibility of others. | | | | g *// | 1*8 |
| VVEDO | 2-18=-980/219, 16 2-16=-605/3931, 3 | -15=-313/73, | | n the LOAD CASE(S) section, of the truss are noted as front | 1 - A rate | Brier A | | | |
| | 13-15=-216/1975, 5-13=-742/152, 6- | | | D CASE(S) Standard Dead + Roof Live (balanced) | | | | PE-20 | 01018807 |
| | 6-12=-914/192, 7- 7-11=-867/69, 1-1 | | ') | Plate Increase=1.15 | | uuuuuuuuuuuuuuuuuuuuuuuuuuuuuuuuuuuuuu | | 8 The | IST B |
| NOTES | 8-11=-164/962 | , | | Uniform Loads (lb/ft) Vert: 1-2=-70, 2-5=-70, 5-6 | | | | NOIS'SION | VAL EN |
| NOTES | | | | 8-9=-70, 17-19=-20, 15-16 | =-20, 10-14=-2 | 0 | | 112 | gust 7,2023 |
| | | | | | | | | , (u | 5 |

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| | | | | | | RE | LEASE FOR CONSTR | UCTION | |
|---|-------------|--------------|----------|-------------------------|--|-----------------|---|--------|--|
| Job | Truss | Truss Type | Qty | Ply | Lot 176 HT | | S NOTED FOR PLAN R DEVELOPMENT SERV | | |
| B240005 | G8 | Half Hip | 1 | 1 | Job Reference (optior | | DEVELOPMENT SERVICES 159955092 LEE'S SUMMIT, MISSOURI | | |
| Wheeler Lumber, Waverly, I | KS - 66871, | | | | 2023 MiTek Industries, Inc. 370Hq3NSgPqnL8w3uITXI | | |)24 | |
| | | | | | | | | | |
| | 5-7-14 | <u> </u> | | <u>16-11-8</u> 5-5-6 | | 2-3-14 5-4-6 | 24-2-6 | | |
| | 2x4 II | 3x4 = | 3x4 = | | 4x5 = | | | | |
| | 1 🛛 🖂 | $\bowtie 2 $ | 3 ⊠ ⊠ | | 4 6 + | 12 15 | | | |
| 3-4-0 3-1-4 3-1-4 3-1-4 0-1 | | | | | | | 4x8≈ ∽ 5 | | |
| | 11 | | | | | | 6 | 1-0-0 | |
| | 3x6 = | 10 | | | 9 8 | | 2x4 II | | |
| | 0.0 - | 3x4 = | | | 3x4 = | | 2,44 | | |
| | | | | | 4x8 = | | | | |
| | | 8-7-0 | 17-0-12 | | | 22-3-14 | | | |
| | I | 8-7-0 | 8-5-12 | | I | 5-3-2 | I | | |

Scale = 1:47

Plate Offsets (X, Y): [5:0-2-15,0-2-0]

| Plate Offsets (| (X, Y): [5:0-2-15,0-2-0 | | | | | | | | | | - | |
|--|--|--|---|--|--|---|--------------------------------------|--------------------------------------|---------------------------------------|---------------------------------|---|------------------------------------|
| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 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/TPI201 | CSI TC BC WB 4 Matrix-S | 0.42 0.75 0.71 | DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL) | in -0.14 -0.31 0.05 0.05 | (loc) 10-11 10-11 7 8-10 | l/defl >999 >859 n/a >999 | L/d 360 240 n/a 240 | PLATES MT20 Weight: 79 lb | GRIP 197/144 FT = 10% |
| LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS | 2x4 SPF No.2 2x3 SPF No.2 *Exce Structural wood she 4-3-11 oc purlins, e 2-0-0 oc purlins (4-0 Rigid ceiling directly bracing. 1 Row at midpt | Athing directly applie xcept end verticals, a -11 max.): 1-4. applied or 10-0-0 oc 2-11 11= Mechanical (LC 6) 0 5), 11=-50 (LC 4) | on the 3-06-00 2 chord a 7) Refer t 8) Provide bearing 11 and 9) This tru Interna R802.1 10) Graphi or the o bottom | russ has been design bottom chord in all are o tall by 2-00-00 wide and any other member o girder(s) for truss to e mechanical connecti plate capable of with 60 lb uplift at joint 7. uss is designed in accu- tional Residential Coc 0.2 and referenced st cal purlin representation rrientation of the purlir chord. E(S) Standard | eas where will fit betw rs. truss conr on (by oth standing 5 ordance w le sections andard AN on does no | a rectangle veen the botton nections. ers) of truss to 50 lb uplift at jo ith the 2018 \$ R502.11.1 an ISI/TPI 1. ot depict the siz | m int id | | | | | |
| FORCES TOP CHORD BOT CHORD WEBS | (lb) - Maximum Com Tension 1-11=-167/38, 1-2=- 3-4=-1381/48, 4-5=- 5-7=-1096/81 10-11=-52/1505, 8-1 | npression/Maximum 53/22, 2-3=-1834/57 1577/39, 5-6=0/54, | , 1/158 | | | | | | | | | |
| NOTES 1) Unbalance this design 2) Wind: ASG Vasd=91n II; Exp C; and right e Lumber D 3) This truss intended f 4) Provide ac 5) This truss | 3-8=-729/85, 4-8=0/ ed roof live loads have | 316, 5-8=-9/1244 been considered for (3-second gust) DL=6.0psf; h=25ft; C tvelope); cantilever l left and right exposed b=1.60 port a ceiling and is to a ceiling and is to a consideration event water ponding r a 10.0 psf bottom | Cat. eft d; not n. | | | | | | | * | STATE OF J SCOT SEV OF DE LOW PE-2001 | |

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| | | | | | | | | RELEASE F | OR CONSTRUCTION |
|---|-------------------------------------|-----------------------|------------|-------------------------|--------|--------------------------|---|-----------------------------------|--|
| Job | Truss | | Truss Type | | Qty | Ply | Lot 176 HT | | FOR PLAN REVIEW PMENT SERVICES 159955093 |
| B240005 | G9 | | Half Hip | | 1 | 1 | Job Reference (optiona | 1 5510.0 | I59955093 UMMIT, MISSOURI |
| Wheeler Lumber, Waverly, | heeler Lumber, Waverly, KS - 66871, | | | | | | 2023 MiTek Industries, Inc. F B70Hq3NSgPqnL8w3uITXbG | | 3/2024 |
| | | | | | | | | | |
| | | | | 10.0.1 | | | | | - |
| | | <u>6-1-4</u> 6-1-4 | | <u>12-0-4</u> 5-11-0 | | <u>18-6-11</u> 6-6-7 | | - <u>3-14</u> 24-2- -9-3 1-10- | |
| | 4x9= | | 2x4 II | | 3x10= | | 5x7= | 2 15 | |
| 2-8-0 2-5-4 2-6-13 2-5-4 0-1-9 2-5-4 | 12 | | | | | | | 4x5 ± | 0 2-5-4 1-0-0 |
| | 3x4 II | | 11 | | 10 | 9 | 8 | 2x4 II | 7 — — |
| | 374 1 | | 5x12 = | | 2x4 II | 5x7 = | 6x8= | | |
| | | <u>6-1-4</u> 6-1-4 | | <u>12-0-4</u> 5-11-0 | | <u>18-7-15</u> 6-7-11 | | - <u>3-14</u> 7-15 | |

Scale = 1:48.6

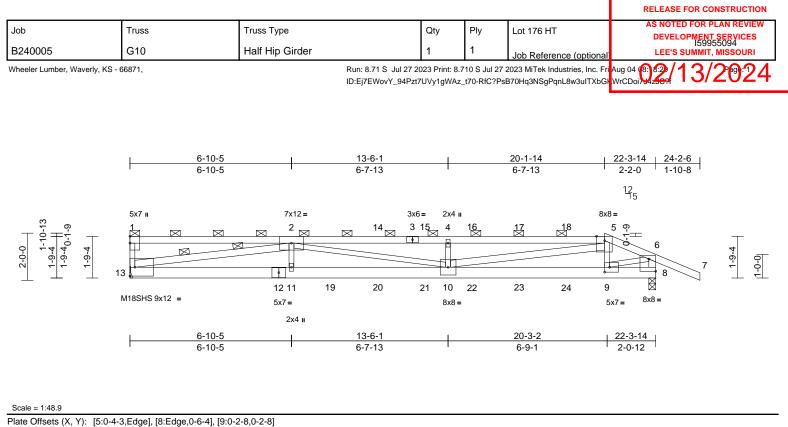
| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 25.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 YES IRC2018 | 8/TPI2014 | CSI TC BC WB Matrix-S | 0.65 0.74 0.74 | DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL) | in -0.18 -0.33 0.05 0.10 | (loc) 10-11 10-11 7 10-11 | l/defl >999 >812 n/a >999 | L/d 360 240 n/a 240 | PLATES MT20 Weight: 79 lb | GRIP 197/144 FT = 20% |
|---|--|--|---|--|--|--|---|--------------------------------------|---------------------------------------|---------------------------------------|---------------------------------|--|------------------------------------|
| LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS | 2x4 SPF No.2 2x3 SPF No.2 *Exce No.2 Structural wood she 4-7-1 oc purlins, ex 2-0-0 oc purlins (3-4 Rigid ceiling directly bracing. 1 Row at midpt | applied or 10-0-0 oc 3-8 12= Mechanical C 4) C 5), 12=-50 (LC 4) | 6) 7) d or nd 8) 9) | on the bottom 3-06-00 tall b chord and an Refer to girdd Provide mecl bearing plate 12 and 70 lb This truss is International R802.10.2 ar Graphical pu | | eas where will fit betw 's. truss conr on (by oth standing 5 ordance w le sections andard AN on does no | a rectangle veen the bott nections. ers) of truss 50 lb uplift at ith the 2018 5 R502.11.1 a NSI/TPI 1. ot depict the | to joint | | | | | |
| FORCES | (lb) - Maximum Com | | | | | | | | | | | | |
| TOP CHORD | Tension 1-12=-922/80, 1-2=- 3-4=-1357/60, 4-5=- 5-7=-1113/81 | 2094/110, 2-3=-2094 1520/52, 5-6=0/54, | /110, | | | | | | | | | | |
| BOT CHORD | 11-12=0/96, 10-11= 7-8=0/42 | -81/2617, 8-10=-81/2 | 617, | | | | | | | | | | |
| WEBS | | 11=-423/101, 3-10=0/ 1390, 3-11=-556/35, | 252, | | | | | | | | | Contraction of the | and the second |
| this design Wind: ASC Vasd=91n II; Exp C; and right e Lumber D Provide ac This truss | ed roof live loads have | (3-second gust) DL=6.0psf; h=25ft; C tvelope); cantilever k left and right exposed VL=1.60 event water ponding r a 10.0 psf bottom | at. eft d; | | | | | | | ļ | | STATE OF I SCOT SEVI PE-2001 PE-2001 | ER Server 018807 |

- Provide adequate drainage to prevent water ponding. This truss has been designed for a 10.0 psf bottom 4)
- chord live load nonconcurrent with any other live loads.

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| Plate Offsets (| (X, Y): [5:0-4-3,Edge], | [8:Edge,0-6-4], [9:0 |)-2-8,0-2-8 | 3] | | | - | | | | | - | |
|---|--|---|---|---|--|---|--|----------------------|---------------------------------------|---------------------------------------|---------------------------------|---|---|
| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 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 IRC20 ⁷ | 18/TPI2014 | CSI TC BC WB Matrix-S | 0.96 0.86 0.82 | DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL) | -0.69 0.07 | (loc) 10-11 10-11 8 10-11 | l/defl >697 >383 n/a >841 | L/d 360 240 n/a 240 | PLATES M18SHS MT20 Weight: 94 lb | GRIP 197/144 197/144 FT = 20% |
| LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD | | pt* 12-8:2x6 SPF 1 pt* 13-2,10-5:2x4 S 400F 2.0E athing directly applic cept end verticals, a | 650F 6 PF 7 ed or 8 | on the botto 3-06-00 tall chord and a) Refer to girc) Provide mec bearing plat 13 and 280) This truss is Internationa | has been designe m chord in all area by 2-00-00 wide w ny other members ler(s) for truss to t chanical connectio e capable of withs lb uplift at joint 8. designed in acco I Residential Code and referenced sta | as where vill fit betv russ conr on (by oth tanding 2 rdance w e sections | a rectangle veen the bott nections. ers) of truss 219 lb uplift a ith the 2018 5 R502.11.1 a | tom to t joint | | | | | |
| BOT CHORD WEBS REACTIONS | 4-4-5 oc purlins, except end verticals, and 2-0-0 oc purlins (2-8-3 max.): 1-5. Rigid ceiling directly applied or 6-0-0 oc bracing. 2 Rows at 1/3 pts 2-13 | | | Graphical provided provided provided sub- bottom chor Hanger(s) on provided sub- down and 20 12-6-7, 65 lb | urlin representatio ation of the purlin | n does no along the device(s concentra 65 lb dov up at 14- | ot depict the set top and/or s) shall be ated load(s) 6 vn and 26 lb 6-7, and 65 l | 65 lb up at b | | | | | |
| FORCES | (lb) - Maximum Com Tension 1-13=-224/87, 1-2=- 4-5=-4359/845, 5-6= 6-8=-1267/274 | 163/53, 2-4=-4359/8 | | up at 8-6-2, 12-6-7, 19 lt 19 lb down a | 7 on top chord, an 19 lb down at 10 5 down at 14-6-7, at 18-6-7, and 92 50ttom chord. The |)-6-7, 19 l 19 lb dov lb down a | b down at wn at 16-6-7 and 37 lb up | ', and at | | | | | |
| BOT CHORD WEBS | 11-13=-761/4201, 1(9-10=-273/1546, 8-9 2-13=-4123/787, 2-1 4-10=-482/208, 5-9= 6-9=-316/1616, 5-10 | =-6/107 1=0/387, 2-10=-48/ 366/132, | 383, L | connection of 1) In the LOAD of the truss OAD CASE(S) | device(s) is the res CASE(S) section are noted as front Standard | sponsibili ı, loads a (F) or ba | ty of others. pplied to the ck (B). | face | | | A | STATE OF | MISSOLATIN. |
| Vasd=91m II; Exp C; I cantilever right expose 2) Provide ac | CE 7-16; Vult=115mph (3-second gust) mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. | | | | of Live (balanced) ase=1.15 bads (lb/ft) 5=70, 5-6=-70, 6- ⁻ ted Loads (lb) 6 (B), 14=-2 (B), 1 -2 (B), 19=-250 (B), 23=0 (B), 24=0 | 7=-70, 8- 5=-2 (B), 3), 20=0 (l | 13=-20 16=-2 (B), 1 | 7=-2 | | 9 | | SEV PE-2001 | Server |

- hage to prevent water ponding 3)
- All plates are MT20 plates unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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August 7,2023

E

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| | | | | | | | | | | RELEASE | FOR CONSTRUCTION | |
|--|---|---|--|---|-------------------------------|--------------------------------------|--|---------------|--------------------------|------------------------------------|--|---|
| Job | Truss | | Truss Type | | Qty | Ply | Lot 176 F | IT | | | D FOR PLAN REVIEW | |
| B240005 | H1 | | Common | | 1 | 1 | Job Refe | rence (optio | onali | LEE'S | OPMENT SERVICES 159955095 SUMMIT, MISSOURI | |
| Wheeler Lumber, | Waverly, KS - 66871, | | | Run: 8.71 S Jul 2 ID:Ej7EWovY_94 | 27 2023 Print: Pzt7UVy1gW/ | 8.710 S Jul : Az_t70-RfC? | 27 2023 MiTek I | ndustries, In | c. Fri | Aug 04 (8:) 8:29 WrCDoi) 942999 | 13/2024 | F |
| | | | | 4-1-2 4-1-2 | | <u>8-5-6</u> 4-4-4 | | \neg | | | | |
| | | | | | | 3-11-8 | | - | | | | |
| | | | | 3-8-6 | x5 = | | | | | | | |
| | | — | | 12 | 2 ↑ | | | | | | | |
| | | | 4x5 II | | | | | 3х6 п | | | | |
| | | 2-9-12 | | | | | ŵ⊥ | 3 | - | | | |
| | | 1-1-5 | 6 | | 5 | | -9-0 | 4 | 0-0-1 | - | | |
| | | | 3x4 и | 2 | 2x4 II | | | 3x4 II | | | | |
| Scale = 1:32.7 | | | | 4-1-2 4-1-2 | | <u>8-5-6</u> 4-4-4 | | \neg | | | | |
| Loading TCLL (roof) TCDL BCLL | (psf) 25.0 10.0 0.0* | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr | 2-0-0 1.15 1.15 YES | CSI TC BC WB | 0.24 Ve 0.31 Ve | EFL ert(LL) ert(CT) orz(CT) | in (loc) -0.03 5 -0.06 4-5 0.00 4 | >999 >999 | L/d 360 240 n/a | PLATES MT20 | GRIP 197/144 | _ |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-R | | nd(LL) | 0.00 4 | | 240 | Weight: 23 lb | FT = 10% | |
| LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD | 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 *Exce Structural wood she 6-0-0 oc purlins, ex | athing directly applie | Internationa R802.10.2 2 LOAD CASE(S | s designed in accord al Residential Code s and referenced stan b) Standard | sections R5 | 02.11.1 an | d | | | | | |
| BOT CHORD | Rigid ceiling directly bracing. | | | | | | | | | | | |
| REACTIONS (| (size) 4= Mecha | inical, 6= Mechanica | I | | | | | | | | | |

 Max Horiz
 6=-27 (LC 4)

 Max Uplift
 4=-5 (LC 9), 6=-4 (LC 8)

 Max Grav
 4=367 (LC 1), 6=367 (LC 1)

 FORCES
 (lb) - Maximum Compression/Maximum Tension

 TOP CHORD
 1-2=-371/21, 2-3=-373/19, 1-6=-285/29, 3-4=-289/32

 BOT CHORD
 5-6=0/284, 4-5=0/284

BOT CHORD 5-6=0/284 WEBS 2-5=0/122

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 6 and 5 lb uplift at joint 4.

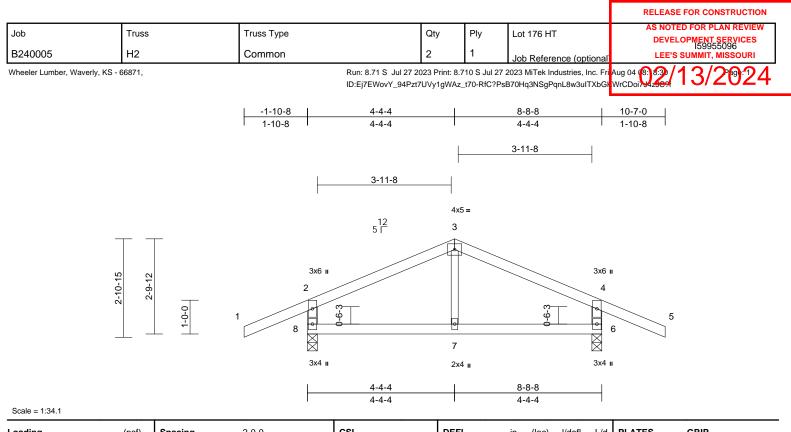
at. ft l;



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August 7,2025





| 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 | 0.42 | Vert(LL) | -0.03 | 7 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.22 | Vert(CT) | -0.05 | 7 | >999 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.04 | Horz(CT) | 0.00 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-R | | Wind(LL) | 0.01 | 7-8 | >999 | 240 | Weight: 29 lb | FT = 10% |
| LUMBER | | | LOAD CASE(S) | Standard | | | | | _ | | | |

| TOP CHORD | 2x4 SPF I | No.2 |
|-----------|-----------------------|---|
| BOT CHORD | 2x4 SPF I | No.2 |
| WEBS | 2x4 SPF I | No.2 *Except* 7-3:2x3 SPF No.2 |
| BRACING | | |
| TOP CHORD | | I wood sheathing directly applied or purlins, except end verticals. |
| BOT CHORD | | ing directly applied or 10-0-0 oc |
| REACTIONS | (size) | 6=0-3-8, 8=0-3-8 |
| | Max Horiz | 8=-23 (LC 6) |
| | Max Uplift | 6=-97 (LC 9), 8=-97 (LC 8) |
| | Max Grav | 6=520 (LC 1), 8=520 (LC 1) |
| FORCES | (lb) - Max Tension | imum Compression/Maximum |
| TOP CHORD | 1-2=0/54, | 2-3=-343/51, 3-4=-343/51, |
| | 4-5=0/54, | 2-8=-447/123, 4-6=-447/123 |
| BOT CHORD | 7-8=0/245 | 5, 6-7=0/245 |
| WEBS | 3-7=0/14 | 1 |

WEBS

NOTES

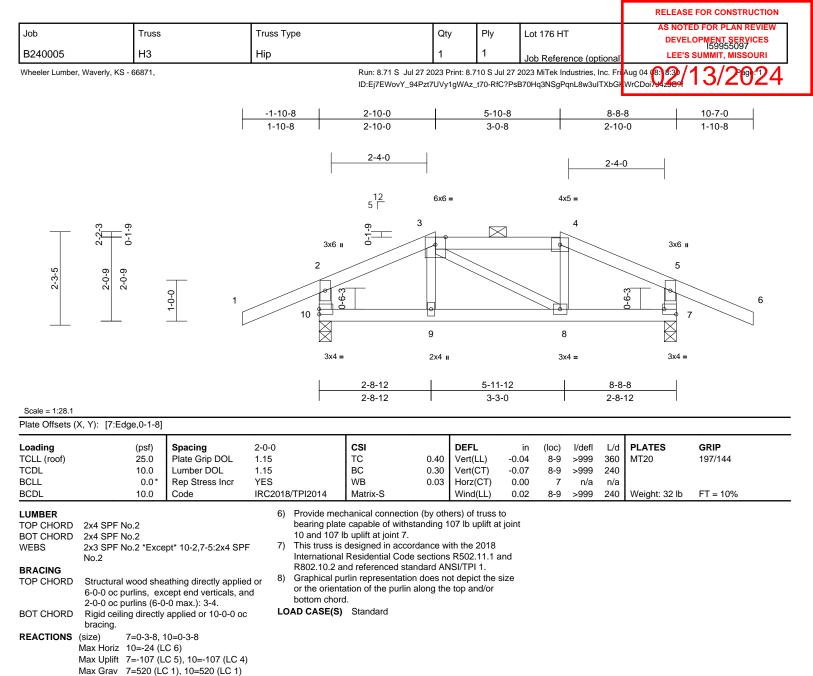
Unbalanced roof live loads have been considered for 1) this design

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom 3) chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to 5) bearing plate capable of withstanding 97 lb uplift at joint 8 and 97 lb uplift at joint 6.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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 FORCES
 (lb) - Maximum Compression/Maximum Tension

 TOP CHORD
 1-2e0/54, 2-3=-360/48, 3-4=-272/54, 4-5=-360/48, 5-6=0/54, 2-10=-434/113, 5-7=-434/113

 BOT CHORD
 9-10=0/272, 8-9=0/272, 7-8=0/272

 WEBS
 3-9=-6/82, 3-8=-15/17, 4-8=-9/83

NOTES

 Unbalanced roof live loads have been considered for this design.

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 Provide adequate drainage to prevent water ponding.

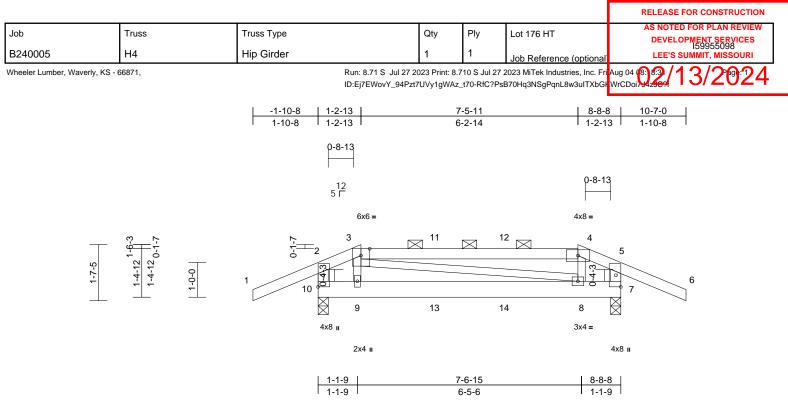
 a) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.



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Scale = 1:33.1

| | | i | | | | | | | | | | | |
|-------------|---|----------------------|-------------------------------------|---|------------------------------------|-------------|----------------|---------|-------|--------|-----|---------------|----------|
| 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 | 0.61 | Vert(LL) | -0.02 | 8-9 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | | BC | 0.19 | Vert(CT) | -0.04 | 8-9 | >999 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | NO | | WB | 0.09 | Horz(CT) | 0.00 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC20 | 18/TPI2014 | Matrix-S | | Wind(LL) | -0.02 | 8-9 | >999 | 240 | Weight: 38 lb | FT = 10% |
| LUMBER | | | 6 | | hanical connect | | | | | | | - | |
| TOP CHORD | | | | | e capable of with | | 49 lb uplift a | t joint | | | | | |
| BOT CHORD | | | - 7 | 10 and 349 lb uplift at joint 7. 7) This truss is designed in accordance with the 2018 | | | | | | | | | |
| WEBS | 2x3 SPF No.2 *Exce | ept^ 10-2,7-5:2x4 SP | F / | | Residential Co | | | and | | | | | |
| | No.2 | nd referenced st | | | anu | | | | | | | | |
| BRACING | o , , , , , , , | | . 8 | | Irlin representati | | | size | | | | | |
| TOP CHORD | Structural wood she | | | | ation of the purli | | | | | | | | |
| | 6-0-0 oc purlins, ex 2-0-0 oc purlins (6-0 | | nu | bottom chore | | J | | | | | | | |
| BOT CHORD | | | g |) Hanger(s) or | other connection | on device(s |) shall be | | | | | | |
| BOT ONORD | bracing. | | | provided sufficient to support concentrated load(s) 45 lb | | | | | | | | | |
| REACTIONS | 0 | 10-0-3-8 | | down and 12 lb up at 1-2-13, 50 lb down and 11 lb up at | | | | | | | | | |
| REAGINGING | Max Horiz 10=24 (L0 | | | | 0 lb down and 1 | | | | | | | | |
| | Max Uplift 7=-349 (L | , | 29) | | 2 lb up at 7-5-11 | | | | | | | | |
| | Max Grav 7=481 (LC | <i>,,</i> | , | down and 689 lb up at 1-2-13, 14 lb down and 16 lb up | | | | | | | | | |
| FORCES | (lb) - Maximum Com | <i>,,</i> | -, | at 3-4-4, and 14 lb down and 16 lb up at 5-4-4, and 112 | | | | | | | | | |
| TOROLO | Tension | ipression/maximum | | lb down and 689 lb up at 7-4-4 on bottom chord. The design/selection of such connection device(s) is the | | | | | | | | | |
| TOP CHORD | 1-2=0/54, 2-3=-396/ | 370. 3-4=-345/253. | | responsibility | | | 100(3) 13 110 | • | | | | | |
| | 4-5=-390/369, 5-6=0 | | . 1 | | CASE(S) section | on loads a | oplied to the | face | | | | | |
| | 5-7=-311/208 | , | | | are noted as from | | | 1000 | | | | | |
| BOT CHORD | 9-10=-308/370, 8-9= | -260/376, 7-8=-298 | /357 | OAD CASE(S) | | | | | | | | | |
| WEBS | 3-9=-476/113, 3-8=- | 60/56, 4-8=-492/124 | - ۱ | • • • • • | of Live (balance | d). I umber | Increase=1 | 15 | | | | | |
| NOTES | | | | Plate Increa | | -,0 | | | | | | | |
| | ed roof live loads have | been considered for | r | Uniform Lo | | | | | | | | | |
| , | this design. | | | | Vert 1-270 2-370 3-470 4-570 5-670 | | | | | | | | Jan |
| | CE 7-16; Vult=115mph | | 7-10=-20 | | | | | | | MISCO | | | |
| Vasd=91n | nph; TCDL=6.0psf; BC | Cat. | 7-10=-20 Concentrated Loads (lb) | | | | | | | 1,00 | | | |
| | | | | | | | | | | | 4 | 1 X Y | |

- II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom 4)
- chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf 5) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

Vert: 9=50 (B), 8=50 (B)



August 7,2023

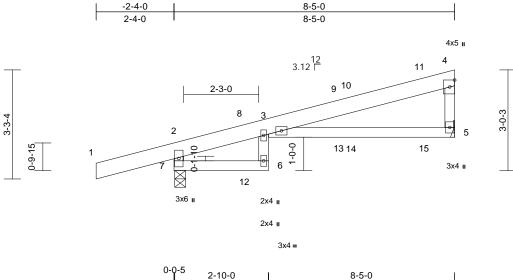
16023 Swingley Ridge Rd. Chesterfield MO 63017 314.434.1200 / MiTek-US.com



| | | | | | | RELEASE FOR CONSTRUCTION |
|---------|-------|---------------------|------|------|-------------------------|-----------------------------------|
| Job | Truss | Truss Type | Qty | Plv | Lot 176 HT | AS NOTED FOR PLAN REVIEW |
| 005 | 11055 | Truss Type | Gety | l''y | | DEVELOPMENT SERVICES 159955099 |
| B240005 | J1 | Diagonal Hip Girder | 1 | 1 | Job Reference (optional | |
| | | | | | | |

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.71 S Jul 27 2023 Print: 8.710 S Jul 27 2023 MiTek Industries, Inc. Fri Aug 04 (6) 32 / 13/2024 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3uITXbGk WrCDoity42564





Scale = 1:34.5

Plate Offsets (X, Y): [3:0-2-10,0-0-5]

| | (X, T). [3.0-2-10,0-0-3 | 'I | | | | | | | | | | - | |
|---|--|---|---|---|--|--|---|---|---------------------------------|---------------------------------------|---------------------------------|---|------------------------------------|
| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 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-R | 0.63 0.35 0.00 | DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL) | in -0.11 -0.21 0.09 0.10 | (loc) 3-5 3-5 5 3-5 | l/defl >878 >468 n/a >956 | L/d 360 240 n/a 240 | PLATES MT20 Weight: 32 lb | GRIP 197/144 FT = 10% |
| Vasd=91n II; Exp C; cantilever right expo. 2) This truss chord live 3) * This trus on the bot 3-06-00 ta chord and 4) Refer to gi 5) Provide m bearing pli 5 and 172 6) This truss Internation | 2x4 SPF No.2 2x4 SPF No.2 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. (size) 5= Mecha Max Horiz 7=106 (LC Max Uplift 5=-126 (L Max Grav 5=482 (LC (lb) - Maximum Com Tension 1-2=0/44, 2-3=-159/ 4-5=-339/125, 2-7=- | cept end verticals. applied or 6-0-0 oc anical, 7=0-3-14 C 5) C 8), 7=-172 (LC 4) C 1), 7=575 (LC 1) apression/Maximum 11, 3-4=-206/30, 555/188 , 3-5=-47/164 (3-second gust) DL=6.0psf; h=25ft; C anoung statistical left and 0 plate grip DDL=1.6 r a 10.0 psf bottom it hany other live load fit between the botto ss connections. (by others) of truss to nding 126 lb uplift at ance with the 2018 ections R502.11.1 at | ed or 8) LO/ 1) Cat. Ie; d 50 ds. Ipsf om o joint | provided suff down and 13 3-3-12, 108 I down and 48 up at 8-5-4 (at 3-0-9, 3 It down and 23 up at 8-5-4 (such connect In the LOAD in the LOAD in the LOAD Dead + Roo Plate Incree Uniform Loo Vert: 1-2 Concentrat Vert: 8=3 | of Live (balanced) ase=1.15 | concentra 63 lb dow up at 5- and 97 lb 18 lb dow , at 5-10 and 63 lb The desi he respon , loads ag (F) or ba): Lumber 4=-70, 6- | Atted load(s) 7 rn and 36 lb 10-8, and 92 down and 5 vn and 21 lb -8, and 22 lb down and 1 gn/selection hsibility of oth pplied to the lock (B). Increase=1. 7=-20, 3-5=-2 | up at Ib 9 Ib up 6 8 Ib of ners. face 15, | | | | STATE OF I STATE OF I SEVI SEVI PE-2001 | ER DI8807 |
| | | | | | | | | | | | | Augu | st 7 2023 |

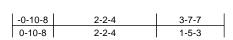
August 7,2023

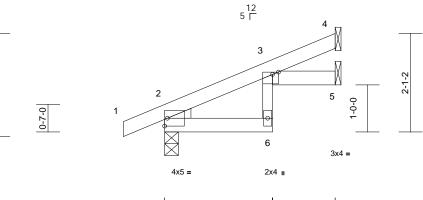


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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)

| | | | | | | RELEASE FOR CONSTRUCTION |
|------------------------|---------------------------------|------------|-----|-----|-------------------------|---|
| Job | Truss | Truss Type | Qty | Ply | Lot 176 HT | |
| B240005 | J2 | Jack-Open | 1 | 1 | Job Reference (optional | DEVELOPMENT SERVICES 159955100 LEE'S SUMMIT, MISSOURI |
| Wheeler Lumber, Waverl | Aug 04 (8) 63 / 1 3 / 2 (9) D 1 | | | | | |

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Scale = 1:24.5

Plate Offsets (X, Y): [3:0-1-8,0-0-9]

2-2-4

| | ()) [] | | | | | | | | | | | |
|---|--|---|---|---|----------------------|--|--------------------------------------|----------------------|---------------------------------------|---------------------------------|---------------------------------|------------------------------------|
| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 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-P | 0.21 0.06 0.01 | DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL) | in -0.02 -0.03 0.02 0.02 | (loc) 6 5 6 | l/defl >999 >999 n/a >999 | L/d 360 240 n/a 240 | PLATES MT20 Weight: 11 lb | GRIP 197/144 FT = 10% |
| LUMBER TOP CHORD BOT CHORD WEBS WEDGE BRACING TOP CHORD BOT CHORD | 2x4 SPF No.2 2x3 SPF No.2 Left: 2x3 SPF No.2 Structural wood she 3-7-7 oc purlins. | | Internationa R802.10.2 a LOAD CASE(S) | : designed in accc I Residential Cod and referenced sta) Standard | e sections | R502.11.1 | and | | | | | |
| REACTIONS | REACTIONS (size) 2=0-3-8, 4= Mechanical, 5= Mechanical Max Horiz 2=75 (LC 8) Max Uplift 2=-37 (LC 8), 4=-52 (LC 8) Max Grav 2=236 (LC 1), 4=129 (LC 1), 5=27 (LC 3) | | | | | | | | | | | |
| FORCES TOP CHORD BOT CHORD WEBS | FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/6, 2-3=-78/0, 3-4=-26/46 BOT CHORD 2-6=0/0, 3-5=-3/3 | | | | | | | | | | | |
| Vasd=91n II; Exp C; cantilever right expo 2) This truss chord live 3) * This trus on the bot 3-06-00 ta chord and 4) Refer to g 5) Provide m bearing pl | CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed sed; Lumber DOL=1.6 has been designed fo load nonconcurrent wi ss has been designed f tom chord in all areas all by 2-00-00 wide will any other members. irder(s) for truss to tru techanical connection ate capable of withstar b uplift at joint 2. | DL=6.0psf; h=25ff; C ivelope) exterior zon ; end vertical left and 0 plate grip DOL=1.6 r a 10.0 psf bottom ith any other live load or a live load of 20.0 where a rectangle fit between the bottod ss connections. (by others) of truss to | e; d 30 ds. psf m | | | | | | | | NUM PE-2001 | I M. HER 018807 |



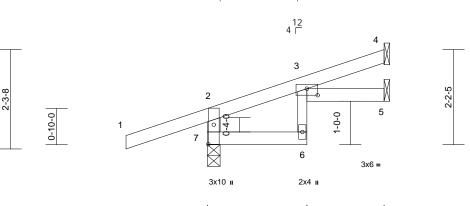
August 7,2023

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| | | | | | | RELEASE FOR CONSTRUCTION |
|-------------------------------|--------|---------------------------------------|-----|-----|--|---|
| Job | Truss | Truss Type | Qty | Ply | Lot 176 HT | |
| B240005 | J3 | Jack-Open 1 1 Job Reference (optional | | | | DEVELOPMENT SERVICES 159955101 LEE'S SUMMIT, MISSOURI |
| Wheeler Lumber, Waverly, KS - | 66871, | | | | 2023 MiTek Industries, Inc. Fri B70Hq3NSgPqnL8w3uITXbGł | |



1-9-8



| 2-3-8 | 4-0-14 |
|-------|--------|
| 2-3-8 | 1-9-6 |

Scale = 1:26.6

Plate Offsets (X, Y): [3:0-3-0,0-1-13], [7:0-5-6,0-1-8]

| Plate Offsets (| (X, Y): [3:0-3-0,0-1-13] |], [7:0-5-6,0-1-8] | | | | | | | | | | |
|--|---|---|---|-----------------------------------|----------------------|--|--------------------------------------|---------------------------|---------------------------------------|---------------------------------|---------------------------------|------------------------------------|
| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 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-P | 0.28 0.12 0.01 | DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL) | in -0.01 -0.02 0.02 0.02 | (loc) 3 6 5 6 | l/defl >999 >999 n/a >999 | L/d 360 240 n/a 240 | PLATES MT20 Weight: 13 lb | GRIP 197/144 FT = 10% |
| LUMBER 2x4 SPF No.2 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. WEB 2x4 SPF No.2 *Except* 6-3:2x3 SPF No.2 LOAD CASE(S) Standard BRACING TOP CHORD Structural wood sheathing directly applied or 4-0.14 ∪ purlins, except end verticals. DOD CASE(S) Standard BOT CHORD Rigid celling directly applied or 6-0-0 oc bracing. | | | | | | | | | | | | |
| FORCES | (LC 1) | pression/Maximum | | | | | | | | | | |
| BOT CHORD WEBS | 3-4=-17/23 6-7=0/0, 3-5=-8/4 3-6=0/40 | | | | | | | | | | | |
| NOTES 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 3) * This truss has been designed for a 10.0 psf bottom chord live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members. 4) Refer to girder(s) for truss to truss connections. 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 122 lb uplift at joint 7, 34 lb uplift at joint 4 and 4 lb uplift at joint 5. | | | | | | | | | | I M. IER DI EN CITA | | |

August 7,2023

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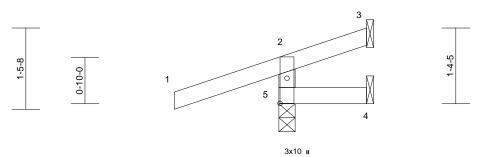
| | | | | | | RELEASE FOR CONSTRUCTION |
|-----------------------------|----------|----------------------|---------------|---------------|---------------------------------|---|
| Job | Truss | Truss Type | Qty | Ply | Lot 176 HT | AS NOTED FOR PLAN REVIEW |
| B240005 | J4 | Jack-Open | 1 | 1 | Job Reference (optional | DEVELOPMENT SERVICES 159955102 LEE'S SUMMIT, MISSOURI |
| Wheeler Lumber, Waverly, KS | - 66871, | Run: 8.71 S Jul 27 2 | 2023 Print: 8 | .710 S Jul 27 | 2023 MiTek Industries, Inc. Fri | |

Run: 8.71 S Jul 27 2023 Print: 8.710 S Jul 27 2023 MiTek Industries, Inc. Fri Aug 04 (8) 8:32/1 3/2 Page 24 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3uITXbGF WrCDoi794z56?





1-6-14



| Scale = 1:20.6 |
|----------------|
|----------------|

Plate Offsets (X, Y): [5:0-5-6,0-1-8]

| | | | | r | | | | | | | | |
|---|--|--|----------------------------------|----------|------|----------|------|-------|--------|-----|--|-----------------------|
| 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 | 0.28 | Vert(LL) | 0.00 | 4-5 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.08 | Vert(CT) | 0.00 | 4-5 | >999 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-R | | Wind(LL) | 0.00 | 4-5 | >999 | 240 | Weight: 6 lb | FT = 10% |
| LUMBER 6) This truss is designed in accordance with the 2018 TOP CHORD 2x4 SPF No.2 BS 2x4 SPF No.2 WEBS 2x4 SPF No.2 BRACING R802.10.2 and referenced standard ANSI/TP11. BRACING LOAD CASE(S) Standard BTOP CHORD Structural wood sheathing directly applied or 1-6-14 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. REACTIONS (size) 3 = Mechanical, 4= Mechanical, 5=0-3-8 Max Horiz 5=-46 (LC 4). Max Uplitt 3=-22 (LC 1), 4=-16 (LC 1), 5=-143 (LC 4) Max Grav 3=16 (LC 4), 4=18 (LC 4), 5=306 (LC 1) FORCES (lb) - Maximum Compression/Maximum | | | | | | | | | | | | |
| FORCES (It | · · · · | pression/Maximum | | | | | | | | | | |
| Ťe | ension | | | | | | | | | | | |
| | -5=-262/142, 1-2=0 | /45, 2-3=-38/4 | | | | | | | | | | |
| | -5=0/0 | | | | | | | | | | | |
| NOTES | | | | | | | | | | | | |
| II; Exp C; Encl cantilever left right exposed; This truss has chord live load * This truss ha on the bottom 3-06-00 tall by chord and any Refer to girder Provide mecha bearing plate of | TCDL=6.0psf; BC losed; MWFRS (er and right exposed ; Lumber DOL=1.6; been designed fo d nonconcurrent wi as been designed fo chord in all areas / 2-00-00 wide will / other members. r(s) for truss to tru- anical connection (| DL=6.0psf; h=25ff; C velope) exterior zon ; end vertical left and 0 plate grip DOL=1.6 • a 10.0 psf bottom th any other live load or a live load of 20.0 where a rectangle fit between the botto ss connections. by others) of truss to ding 143 lb uplift at | e; d 30 ds. psf m | | | | | | | | STATE OF SCOT SEV SEV PE-2001 | T M. IER 018807 |

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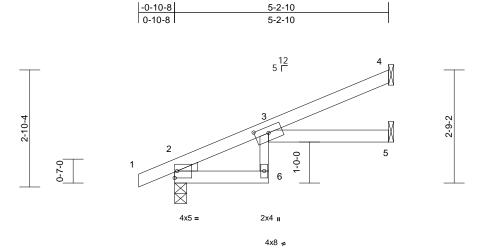


August 7,2023

| | | | | | | RELEASE FOR CONSTRUCTION |
|---------------------|-----------------|------------|---------------------------------|-----|-------------------------|---|
| Job | Truss | Truss Type | Qty | Ply | Lot 176 HT | AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 159955103 |
| B240005 | J5 | Jack-Open | 1 | 1 | Job Reference (optional | I59955103 LEE'S SUMMIT, MISSOURI |
| Wheeler Lumber Wave | arly KS - 66871 | Ru | un: 8 71 S Jul 27 2023 Print: 8 | | | |

Wheeler Lumber, Waverly, KS - 66871,

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RtC?PsB70Hq3NSgPqnL8w3ulTXbGi WrCDoi7942904 13/269124 3 Print: 8.710 S Jul 27 2023 MiTek In





| Scale = 1:28.1 | |
|----------------|--|
| | |

| Plate Offsets (X, Y | Y): | [3:0-4-0,0-1-13] |
|---------------------|-----|------------------|
|---------------------|-----|------------------|

| 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 | 0.48 | Vert(LL) | -0.06 | 3-5 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.33 | Vert(CT) | -0.10 | 3-5 | >583 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.07 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-R | | Wind(LL) | 0.06 | 3-5 | >966 | 240 | Weight: 15 lb | FT = 10% |
| LUMBER | | | 6) This trus | s is designed in acc | ordance w | ith the 2018 | | | | | | |
| TOP CHORE | D 2x4 SPF No.2 | | | nal Residential Coo | | | and | | | | | |
| BOT CHORE | | ept* 6-3:2x3 SPF No | b.2 R802.10. | 2 and referenced st | tandard AN | ISI/TPI 1. | | | | | | |
| WEDGE | Left: 2x3 SPF No.2 | | LOAD CASE | (S) Standard | | | | | | | | |
| BRACING | | | | . , | | | | | | | | |
| TOP CHORE | D Structural wood she | athing directly appli | ed or | | | | | | | | | |
| | 5-2-10 oc purlins. | | | | | | | | | | | |
| BOT CHORE | | applied or 6-0-0 oc | : | | | | | | | | | |
| | bracing. | | | | | | | | | | | |
| REACTIONS | | 4= Mechanical, 5= | | | | | | | | | | |
| | Mechanic | | | | | | | | | | | |
| | Max Horiz 2=102 (Lo | | | | | | | | | | | |
| | Max Uplift 2=-44 (LC (LC 8) | 5 8), 4=-58 (LC 8), 5 |)=-0 | | | | | | | | | |
| | Max Grav 2=304 (L0 | C 1) 4=135 (I C 1) | 5=87 | | | | | | | | | |
| | (LC 3) | 0 1), 1-100 (20 1), | 0-07 | | | | | | | | | |
| FORCES | (lb) - Maximum Com | npression/Maximum | | | | | | | | | | |
| | Tension | | | | | | | | | | | |
| TOP CHORE | D 1-2=0/6, 2-3=-138/0 | , 3-4=-35/44 | | | | | | | | | | |
| BOT CHORE | D 2-6=-3/13, 3-6=-5/68 | 8, 3-5=-5/3 | | | | | | | | | | |
| NOTES | | | | | | | | | | | | |
| 1) Wind: AS | SCE 7-16; Vult=115mph | (3-second gust) | | | | | | | | | | |
| | 1mph; TCDL=6.0psf; BC | | | | | | | | | | | an |
| | ; Enclosed; MWFRS (er | | | | | | | | | | OF | MIG |
| | er left and right exposed | | | | | | | | | | TATE OF | USS W |
| | oosed; Lumber DOL=1.6 ss has been designed fo | | .60 | | | | | | | 6 | AN' | N.S. |
| | e load nonconcurrent w | | ade | | | | | | | B | SCOT | ТМ. \72 \ |
| | uss has been designed f | | | | | | | | | R | SEV | IER \ Y |
| | ottom chord in all areas | | -F | | | | | | | Ant | | |
| | tall by 2-00-00 wide will | | om | | | | | | | YX. | HK. | La Man |
| chord an | nd any other members. | | | | | | | | 2 | × C | our | |
| | girder(s) for truss to tru | | | | | | | | | \$7 | | |
| 5) Provide I | mechanical connection | (by others) of truss | to | | | | | | | N | O PE-2001 | 01000/201 |

4) 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 4, 44 lb uplift at joint 2 and 6 lb uplift at joint 5.

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 college 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)



August 7,2023

SIONAL ET

| | | | | | | RELEASE FOR CONSTRUCTION |
|---------|-------|------------|-----|-----|-------------------------|-----------------------------------|
| Job | Truss | Truss Type | Qty | Plv | Lot 176 HT | AS NOTED FOR PLAN REVIEW |
| | | | | Ľ | | DEVELOPMENT SERVICES 159955104 |
| B240005 | J6 | Jack-Open | 1 | 1 | Job Reference (optional | LEE'S SUMMIT, MISSOURI |
| | | | | | | 0011010001 |

Wheeler Lumber, Waverly, KS - 66871,

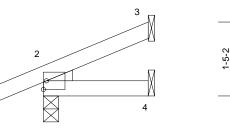






1

1-6-4



4x5 =

| 0 | | 1 00 0 |
|-------|---|--------|
| Scale | = | 1:22.2 |

| | | | | | 2 | 2-0-4 | _ | | | | | |
|----------------|-------|-----------------|-----------------|----------|------|----------|------|-------|--------|-----|--------------|----------|
| Scale = 1:22.2 | | | | | I | | | | | | | |
| _oading | (psf) | Spacing | 2-0-0 | csi | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
| FCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.06 | Vert(LL) | 0.00 | 2-4 | >999 | 360 | MT20 | 197/144 |
| FCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.03 | Vert(CT) | 0.00 | 2-4 | >999 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | Weight: 6 lb | FT = 10% |

| vv | F | L | 9G | iE | | |
|----|----------|---|----|----|----|--|
| • | . | | ~ | | 10 | |

| BRACING | | |
|-----------|-------------|------------------------------------|
| TOP CHORD | Structural | wood sheathing directly applied or |
| | 2-0-4 oc p | ourlins. |
| BOT CHORD | Rigid ceili | ing directly applied or 10-0-0 oc |
| | bracing. | |
| REACTIONS | (size) | 2=0-3-8, 3= Mechanical, 4= |
| | | Mechanical |
| | Max Horiz | 2=48 (LC 8) |

Max Uplift 2=-36 (LC 4), 3=-33 (LC 8)

Max Grav 2=173 (LC 1), 3=43 (LC 1), 4=36 (LC 3) FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD 1-2=0/6, 2-3=-46/16

2-4=0/0

BOT CHORD

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom 2) chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf
- 3) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections. 4)
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 3 and 36 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 6) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

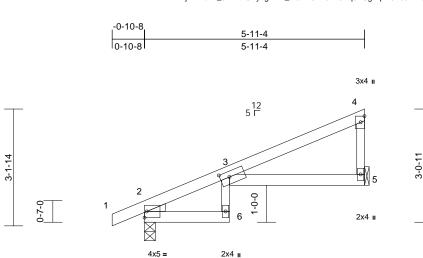


 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not beigh valid for use only 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)



| | | | | | | RELEASE FOR CONSTRUCTION | | |
|------------------------|--|-------------|-----|------|-------------------------|-----------------------------------|--|--|
| Job | Truss | Truss Type | Qty | Plv | Lot 176 HT | AS NOTED FOR PLAN REVIEW | | |
| 000 | 11035 | | Qty | 1 19 | | DEVELOPMENT SERVICES 159955105 | | |
| B240005 | J7 | Jack-Closed | 3 | 1 | Job Reference (optional | | | |
| Wheeler Lumber, Waverl | Wheeler Lumber, Waverly, KS - 66871, Run: 8.71 S Jul 27 2023 Print: 8.710 S Jul 27 2023 MiTek Industries, Inc. Fri Aug | | | | | | | |

кип: 6.7 г. 5. Jul 27 2023 Print: 8.710 S Jul 27 2023 MiTek Industries, Inc. Fri Aug 04 (8:) 6:3 / 1 3/2 9 2 4 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3uITXbGi WrCDoi7642569f



2x4 🛛

| 1 | 2-3-8 | 5-11-4 |
|---|-------|--------|
| | 2-3-8 | 3-7-12 |

4x8 🚅

| Scale = 1:31.1 | |
|----------------|--|
|----------------|--|

| Plate Offsets (X, Y): | Plate Offsets (X, Y): [3:0-3-0,0-1-13] | | | | | | | | | | | | |
|-----------------------|--|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|--|
| 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 | 0.60 | Vert(LL) | -0.10 | 6 | >711 | 360 | MT20 | 197/144 | |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.33 | Vert(CT) | -0.17 | 6 | >397 | 240 | | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.11 | 5 | n/a | n/a | | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-R | | Wind(LL) | 0.10 | 6 | >705 | 240 | Weight: 18 lb | FT = 10% | |

LUMBER

| TOP CHORD | 2x4 SPF I | No.2 | | | | | | |
|-----------|--|--------------------------------------|--|--|--|--|--|--|
| BOT CHORD | 2x4 SPF No.2 *Except* 6-3:2x3 SPF No.2 | | | | | | | |
| WEBS | 2x3 SPF No.2 | | | | | | | |
| WEDGE | Left: 2x3 | Left: 2x3 SPF No.2 | | | | | | |
| BRACING | | | | | | | | |
| TOP CHORD | Structura | I wood sheathing directly applied or | | | | | | |
| | 5-11-4 oc | purlins, except end verticals. | | | | | | |
| BOT CHORD | Rigid ceil | ing directly applied or 10-0-0 oc | | | | | | |
| | bracing. | | | | | | | |
| REACTIONS | (size) | 2=0-3-8, 5= Mechanical | | | | | | |
| | Max Horiz | 2=104 (LC 5) | | | | | | |
| | Max Uplift | 2=-58 (LC 8), 5=-61 (LC 8) | | | | | | |
| | Max Grav | 2=334 (LC 1), 5=250 (LC 1) | | | | | | |
| FORCES | (lb) - Max | imum Compression/Maximum | | | | | | |
| | Tension | | | | | | | |
| TOP CHORD | 1-2=0/6, 2 | 2-3=-169/0, 3-4=-85/14, 4-5=-166/65 | | | | | | |
| BOT CHORD | 2-6=-1/7, | 3-6=0/63, 3-5=-22/54 | | | | | | |
| NOTES | | | | | | | | |

- NOTES
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom 2) chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 3) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to 5) bearing plate capable of withstanding 61 lb uplift at joint 5 and 58 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 6) 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)



| | | | | | | RELEASE FOR CONSTRUCTION |
|---------------------|--------------------|-------------------|-------------------------|-----|--|---|
| Job | Truss | Truss Type | Qty | Ply | Lot 176 HT | AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 159955106 |
| B240005 | J8 | Jack-Closed | 1 | 1 | Job Reference (optional | |
| Wheeler Lumber, Wav | verly, KS - 66871, | | | | 27 2023 MiTek Industries, Inc. Fri ?PsB70Hq3NSgPqnL8w3uITXbGI | |
| | | -0-10-8 0-10-8 | <u>5-11-4</u> 5-11-4 | | | |
| | | | | | 2x4 II | |
| | \top | | 12 5 M | | 3 | \top |

| Scolo | _ | 1.27 | 0 |
|-------|---|------|---|

| 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 | 0.60 | Vert(LL) | -0.06 | 2-4 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.35 | Vert(CT) | -0.13 | 2-4 | >544 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | Weight: 18 lb | FT = 10% |

5-11-4

2

X 4x5 =

| TOP CHORD | 2x4 SPF No.2 |
|------------------------|--|
| BOT CHORD | 2x4 SPF No.2 |
| WEBS | 2x3 SPF No.2 |
| WEDGE | Left: 2x3 SPF No.2 |
| BRACING | |
| TOP CHORD | Structural wood sheathing directly applied o 5-11-4 oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing. |
| REACTIONS | (size) 2=0-3-8, 4= Mechanical |
| | Max Horiz 2=120 (LC 5) |
| | Max Uplift 2=-60 (LC 8), 4=-59 (LC 8) |
| | Max Grav 2=334 (LC 1), 4=250 (LC 1) |
| FORCES | (lb) - Maximum Compression/Maximum Tension |
| TOP CHORD BOT CHORD | 1-2=0/6, 2-3=-107/66, 3-4=-193/93 2-4=-38/29 |
| | |

3-1-14

0-2-0

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom 2) chord live load nonconcurrent with any other live loads. 3) * This truss has been designed for a live load of 20.0psf
- on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 59 lb uplift at joint 4 and 60 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and 6) R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



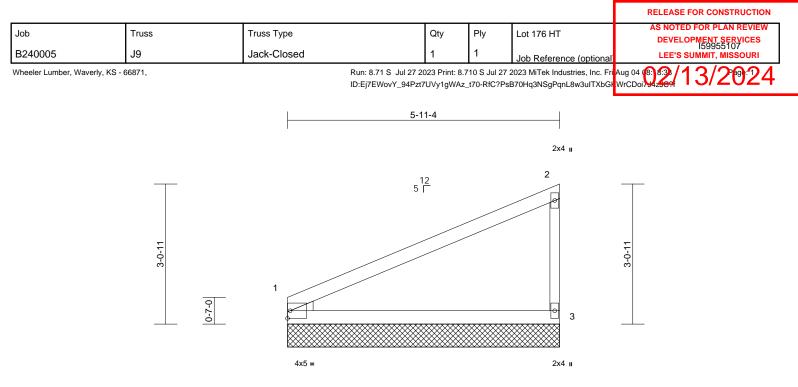
3-0-11

4

2x4 II

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| 5-11-4 |
|--------|
| |

| Scale = 1:25.1 | | | | | | | | | I | | | |
|----------------|-------|-----------------|-----------------|----------|------|-----------|------|-------|--------|-----|---------------|----------|
| 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 | 0.67 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.36 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horiz(TL) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | Weight: 17 lb | FT = 10% |

| LUMBER |
|--------|
|--------|

| LUMBER | |
|---------------------|---|
| TOP CHORD | 2x4 SPF No.2 |
| BOT CHORD | 2x4 SPF No.2 |
| WEBS | 2x3 SPF No.2 |
| WEDGE | Left: 2x3 SPF No.2 |
| BRACING | |
| TOP CHORD | Structural wood sheathing directly applied or |
| | 5-11-4 oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc |
| | bracing. |
| | |
| REACTIONS | (size) 1=5-11-4, 3=5-11-4 |
| REACTIONS | (size) 1=5-11-4, 3=5-11-4 Max Horiz 1=118 (LC 5) |
| REACTIONS | () |
| REACTIONS | Max Horiz 1=118 (LC 5) |
| REACTIONS | Max Horiz 1=118 (LC 5) Max Uplift 1=-36 (LC 8), 3=-62 (LC 8) |
| | Max Horiz 1=118 (LC 5) Max Uplift 1=-36 (LC 8), 3=-62 (LC 8) Max Grav 1=263 (LC 1), 3=263 (LC 1) |
| | Max Horiz 1=118 (LC 5) Max Uplift 1=-36 (LC 8), 3=-62 (LC 8) Max Grav 1=263 (LC 1), 3=263 (LC 1) (lb) - Maximum Compression/Maximum Tension |
| FORCES | Max Horiz 1=118 (LC 5) Max Uplift 1=-36 (LC 8), 3=-62 (LC 8) Max Grav 1=263 (LC 1), 3=263 (LC 1) (lb) - Maximum Compression/Maximum Tension 1-2=-105/69, 2-3=-204/97 |
| FORCES TOP CHORD | Max Horiz 1=118 (LC 5) Max Uplift 1=-36 (LC 8), 3=-62 (LC 8) Max Grav 1=263 (LC 1), 3=263 (LC 1) (lb) - Maximum Compression/Maximum Tension 1-2=-105/69, 2-3=-204/97 |

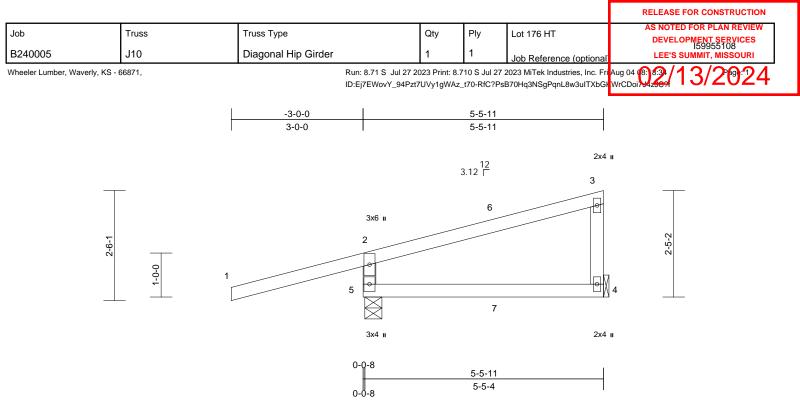
- Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 62 lb uplift at joint 3 and 36 lb uplift at joint 1.
- This truss is designed in accordance with the 2018 6) 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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16023 Swingley Ridge Rd. Chesterfield MO 63017 314.434.1200 / MiTek-US.com



Scale = 1:26.2

| TCLL (roof) 25.0 TCDL 10.0 | Plate Grip DOL1Lumber DOL1Rep Stress IncrN | 2-0-0 1.15 1.15 NO RC2018/TPI2014 | BC | 0.82 0.20 0.00 | DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL) | in -0.03 -0.05 0.00 -0.02 | (loc) 4-5 4-5 4 4-5 | l/defl >999 >999 n/a >999 | L/d 360 240 n/a 240 | PLATES MT20 Weight: 19 lb | GRIP 197/144 FT = 10% |
|---|---|---|----------------------------------|--|--|---------------------------------------|---------------------------------|---------------------------------------|---------------------------------|---------------------------------|------------------------------------|
| 5-5-11 oc purlins, ex BOT CHORD Rigid ceiling directly a bracing. | applied or 6-0-0 oc nical, 5=0-4-11 5) 8), 5=-216 (LC 4) 1), 5=506 (LC 1) | provided suffi down and 94 up at 3-0-90 at 2-11-15, a bottom chord device(s) is th 8) In the LOAD of the truss a LOAD CASE(S) 1) Dead + Roo Plate Increa Uniform Loa Vert: 1-2= | f Live (balanced): Lu se=1.15 | centra nd 78 l Ib dov Ib up a ion of thers. ads ap or bac | ted load(s) 5 b down and 3 vn and 16 lb at 3-0-9 on such connect oplied to the f ck (B). | 36 lb up tion face | | | | | |

TOP CHORD 2-5=-445/242, 1-2=0/55, 2-3=-103/19, 3-4=-112/68 4-5=-28/68

BOT CHORD

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom 2) chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to 5) bearing plate capable of withstanding 216 lb uplift at joint 5 and 38 lb uplift at joint 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

OF MISS SCOTT M. SEVIER OFFSSIONAL PE-200101880

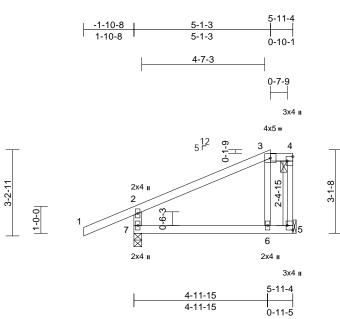


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E

 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)

| | | | | | | RELEASE FOR CONSTRUCTION |
|-------------------------------|------------------------|-------------|-----|-----|-------------------------|---|
| Job | Truss | Truss Type | Qty | Ply | Lot 176 HT | AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 159955109 |
| B240005 | J11 | Jack-Closed | 1 | 1 | Job Reference (optional | |
| Wheeler Lumber, Waverly, KS - | Aug 04 (6) 3 / 13/2924 | | | | | |



Scale = 1:43

| - 1410 01100 | | [0.2490,0 2 0] | | | | | | | | | | | |
|---|--|--|---------------------------|---|----------|--|--|-------|-------|--------|-----|---------------|-----------|
| Loading | (psf) | Spacing | 2-0-0 | | csi | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL (roof) | | Plate Grip DOL | 1.15 | | тс | 0.30 | Vert(LL) | -0.03 | 6-7 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | | BC | 0.20 | Vert(CT) | -0.06 | 6-7 | >999 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | | WB | 0.02 | Horz(CT) | 0.00 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC201 | 8/TPI2014 | Matrix-R | | Wind(LL) | 0.03 | 6-7 | >999 | 240 | Weight: 21 lb | FT = 10% |
| LUMBER TOP CHOR BOT CHOR WEBS BRACING TOP CHOR BOT CHOR | D 2x4 SPF No.2 2x3 SPF No.2 *Exce 2.0E D Structural wood she 5-11-4 oc purlins, e 2-0-0 oc purlins: 3-4 D Rigid ceiling directly | athing directly applie xcept end verticals, a | 00F 8) ed or 9) and | bearing plate 7 and 43 lb u This truss is International R802.10.2 a Graphical pu | | tanding 8 rdance w sections ndard AN n does no | 9 lb uplift at j ith the 2018 s R502.11.1 a ISI/TPI 1. ot depict the s | oint | | | | | |
| REACTION | bracing. S (size) 5= Mecha Max Horiz 7=131 (LC Max Uplift 5=-43 (LC Max Grav 5=231 (LC | 5), 7=-89 (LC 8) | | | | | | | | | | | |
| FORCES | (lb) - Maximum Com Tension | ,, () | | | | | | | | | | | |
| TOP CHOR | | | | | | | | | | | | | |
| BOT CHOR | | | | | | | | | | | | | |
| WEBS | 3-6=-82/84 | | | | | | | | | | | | |
| NOTES | | | | | | | | | | | | | |
| | nced roof live loads have | been considered for | | | | | | | | | | | The |
| , this des | ign. | | | | | | | | | | | OF N | ALC: NO |
| | SCE 7-16; Vult=115mph | | | | | | | | | | | THE OF I | IIS'S |
| | 1mph; TCDL=6.0psf; BC | | | | | | | | | | 6 | A.M. | N.S |
| | C; Enclosed; MWFRS (er | | | | | | | | | | R | SCOT | ГМ. \С. \ |
| | er left and right exposed posed; Lumber DOL=1.6 | | | | | | | | | | 4 | / SEVI | ER \Y |
| | adequate drainage to pr | | | | | | | | | | bat | | 0 |
| | ss has been designed for | | • | | | | | | | - 4 | X | 475 | Serles |
| | ve load nonconcurrent wi | | ds. | | | | | | | ø | | NUM | DED CON |
| | uss has been designed f | | | | | | | | | | 27 | | |
| | pottom chord in all areas | | | | | | | | | | N. | PE-2001 | 018807 |

on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

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

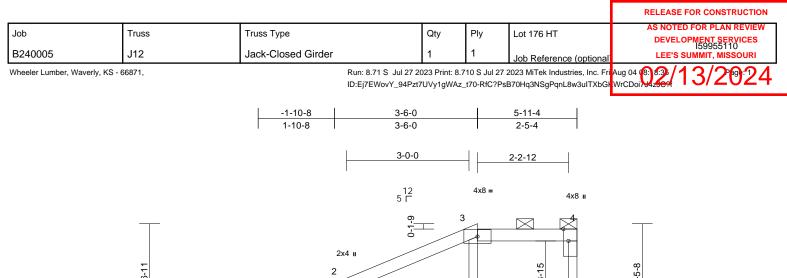


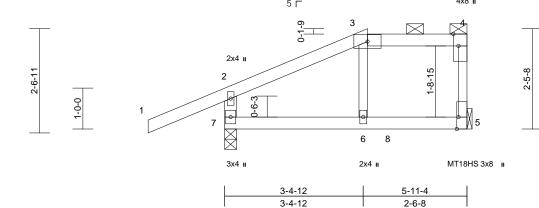
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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual 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)







| Scale = | 1:28.2 |
|---------|--------|
|---------|--------|

Plate Offsets (X, Y): [4:0-3-8,Edge], [5:0-3-8,Edge]

| | | | | | | _ | | | | | | | |
|--|--|--|---------------------------------------|--|--|---|---|---|---------------------------------|---------------------------------------|---------------------------------|--|---|
| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 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 IRC201 | 8/TPI2014 | CSI TC BC WB Matrix-R | 0.64 0.54 0.04 | DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL) | in -0.07 -0.13 0.00 0.07 | (loc) 6-7 6-7 5 6-7 | l/defl >922 >518 n/a >944 | L/d 360 240 n/a 240 | PLATES MT20 MT18HS Weight: 20 lb | GRIP 197/144 197/144 FT = 10% |
| LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS | 2x3 SPF No.2 *Exce Structural wood she 5-11-4 oc purlins, e 2-0-0 oc purlins: 3-4 Rigid ceiling directly bracing. | , athing directly applie xcept end verticals, a , applied or 10-0-0 oc anical, 7=0-3-8 C 5) C 5), 7=-131 (LC 4) | d or and 10 ; 1 ⁴ | bearing plate 7 and 112 lb 1 This truss is International R802.10.2 a 0) Graphical pu or the orients bottom chore 1) Hanger(s) ou provided suf lb down and lb up at 4-0- such connect | hanical connection e capable of withs uplift at joint 5. designed in accoon Residential Code not referenced sta trilin representation ation of the purlin d. other connection ficient to support of 53 lb up at 3-6-0 0 on bottom chorr tion device(s) is tt CASE(S) section | tanding 1 rdance w sections ndard AN n does no along the device(s concentra , and 157 d. The do he respor | 31 lb uplift a R502.11.1 a ISI/TPI 1. ot depict the a top and/or) shall be the load(s) 1 'lb down and asign/selection sibility of oth | t joint and size 135 d 50 on of ners. | | | | | |
| FORCES TOP CHORD BOT CHORD | (lb) - Maximum Com Tension 2-7=-403/130, 1-2=0 3-4=-143/57, 4-5=-1 6-7=-60/141, 5-6=-6 |)/54, 2-3=-228/52, 96/64 | | of the truss a | are noted as front Standard of Live (balanced) ase=1.15 | (F) or ba | ск (В). | | | | | | |

Vert: 1-2=-70, 2-3=-70, 3-4=-70, 5-7=-20

Concentrated Loads (lb)

Vert: 6=-123 (F), 8=-157 (F)

WEBS

NOTES

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

3-6=-34/145

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.
 * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom
- chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.

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NUMBER PE-2001018807

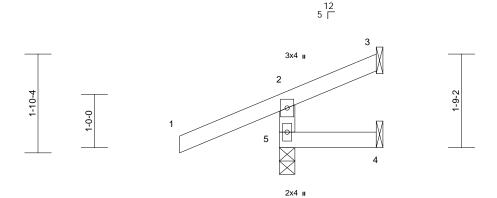




| | | | | | | RELEASE FOR CONSTRUCTION |
|-------------------------------|--------|----------------------|---------------|--------------|---------------------------------|---|
| Job | Truss | Truss Type | Qty | Ply | Lot 176 HT | |
| B240005 | J13 | Jack-Open | 1 | 1 | Job Reference (optional | DEVELOPMENT SERVICES 159955111 LEE'S SUMMIT, MISSOURI |
| Wheeler Lumber, Waverly, KS - | 66871, | Run: 8.71 S Jul 27 2 | 023 Print: 8. | 710 S Jul 27 | 2023 MiTek Industries, Inc. Fri | |

Run: 8.71 S Jul 27 2023 Print: 8.710 S Jul 27 2023 MiTek Industries, Inc. FrilAug 04 (8) 6:38/1 3/2 fog 24 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3uITXbGH WrCDoi794z569

| -1-10-8 | 1-9-13 |
|---------|--------|
| 1-10-8 | 1-9-13 |



1-9-13

| Coolo | | 1.01 | e |
|-------|---|------|----|
| Scale | = | 1:21 | .o |

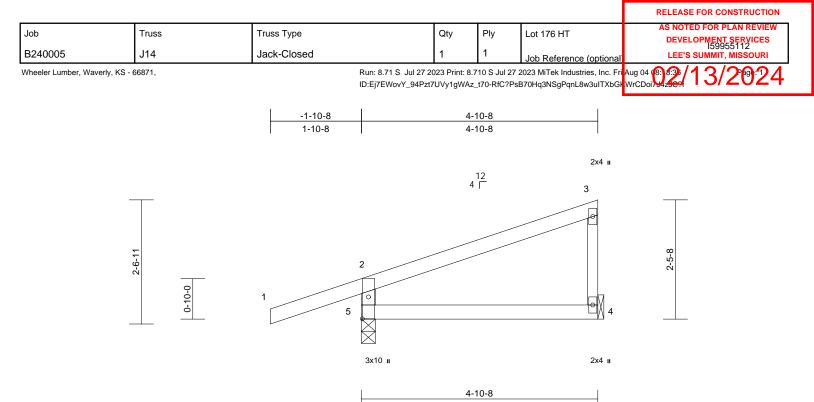
| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|--|-------------------------|-----------------|----------|-----|----------|-------|-------|--------|-----|--------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | | .28 | Vert(LL) | 0.00 | 4-5 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | - | .08 | Vert(CT) | 0.00 | 4-5 | >999 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB 0. | .00 | Horz(CT) | -0.01 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-R | | Wind(LL) | 0.00 | 4-5 | >999 | 240 | Weight: 7 lb | FT = 10% |
| LUMBER | | | LOAD CASE(S) | Standard | | | | | | | | |
| TOP CHORD | 2x4 SPF No.2 | | ., | | | | | | | | | |
| BOT CHORD | 2x4 SPF No.2 | | | | | | | | | | | |
| WEBS | 2x4 SPF No.2 | | | | | | | | | | | |
| BRACING | | | | | | | | | | | | |
| TOP CHORD | | athing directly applie | ed or | | | | | | | | | |
| | 1-9-13 oc purlins, e | | | | | | | | | | | |
| BOT CHORD | 0 0 , | applied or 10-0-0 or | | | | | | | | | | |
| | bracing. | | | | | | | | | | | |
| REACTIONS | (size) 3= Mecha 5=0-3-8 | anical, 4= Mechanica | ll, | | | | | | | | | |
| | 5=0-3-8 Max Horiz 5=53 (LC | 5) | | | | | | | | | | |
| | Max Uplift 3=-14 (LC | , | .87 | | | | | | | | | |
| | (LC 4) | 5 0), 4=-7 (LO 1), 5=- | -07 | | | | | | | | | |
| | Max Grav 3=4 (LC 4 | 4), 4=24 (LC 3), 5=30 |)2 | | | | | | | | | |
| | (LC 1) | ,, (,, | | | | | | | | | | |
| FORCES | (lb) - Maximum Corr | npression/Maximum | | | | | | | | | | |
| | Tension | | | | | | | | | | | |
| TOP CHORD | 2-5=-262/96, 1-2=0/ | 54, 2-3=-46/1 | | | | | | | | | | |
| BOT CHORD | 4-5=0/0 | | | | | | | | | | | |
| NOTES | | | | | | | | | | | | |
| 1) Wind: ASC | CE 7-16; Vult=115mph | (3-second gust) | | | | | | | | | | |
| | nph; TCDL=6.0psf; BC | | | | | | | | | | | |
| | Enclosed; MWFRS (er | | | | | | | | | | | ~ |
| | left and right exposed | | | | | | | | | | A | and |
| | sed; Lumber DOL=1.6 | | 50 | | | | | | | | E.F. OF M | NISS W |
| | has been designed fo load nonconcurrent w | | do | | | | | | | 4 | TATE OF M | NS |
| | ioau nonconcurrent w | iur any other live load | 15. | | | | | | | B | N/ SCOT | TM XXX |

- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 87 lb uplift at joint 5, 7 lb uplift at joint 4 and 14 lb uplift at joint 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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| Scale = 1:23.7 | |
|----------------|--|

Plate Offsets (X, Y): [5:0-5-6,0-1-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | | - | GRIP |
|-------------|-------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | | Plate Grip DOL | 1.15 | TC | | Vert(LL) | -0.02 | 4-5 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.16 | Vert(CT) | -0.04 | 4-5 | >999 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-R | | Wind(LL) | 0.00 | 4-5 | >999 | 240 | Weight: 16 lb | FT = 10% |

- LUMBER
- TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 2x4 SPF No.2 *Except* 3-4:2x3 SPF No.2 WEBS BRACING TOP CHORD Structural wood sheathing directly applied or 4-10-8 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. REACTIONS (size) 4= Mechanical, 5=0-3-8 Max Horiz 5=106 (LC 5) Max Uplift 4=-38 (LC 8), 5=-134 (LC 4) Max Grav 4=177 (LC 1), 5=380 (LC 1)
- FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 2-5=-336/164, 1-2=0/45, 2-3=-98/17, 3-4=-129/60 4-5=-25/25

BOT CHORD

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to 5) bearing plate capable of withstanding 134 lb uplift at joint 5 and 38 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 6) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

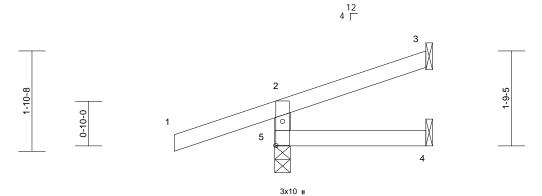
LOAD CASE(S) Standard



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| | | | | | | | RELEASE FOR CONSTRUCTION |
|--------------------------|-------------|------------|---------|-----|--------|---|---|
| Job | Truss | Truss Type | | Qty | Ply | Lot 176 HT | |
| B240005 | J15 | Jack-Open | | 1 | 1 | Job Reference (optional | DEVELOPMENT SERVICES 159955113 LEE'S SUMMIT, MISSOURI |
| Wheeler Lumber, Waverly, | KS - 66871, | | | | | 27 2023 MiTek Industries, Inc. Fri PsB70Hq3NSgPqnL8w3ulTXbGł | |
| | | 1 | -1-10-8 | | 2-9-14 | | |
| | | | 1-10-8 | | 2-9-14 | | |
| | | | | | | | |



| | 2-9-14 | |
|---------------------------------------|--------|--|
| Scale = 1:21.5 | | |
| Plate Offsets (X, Y): [5:0-5-6.0-1-8] | | |

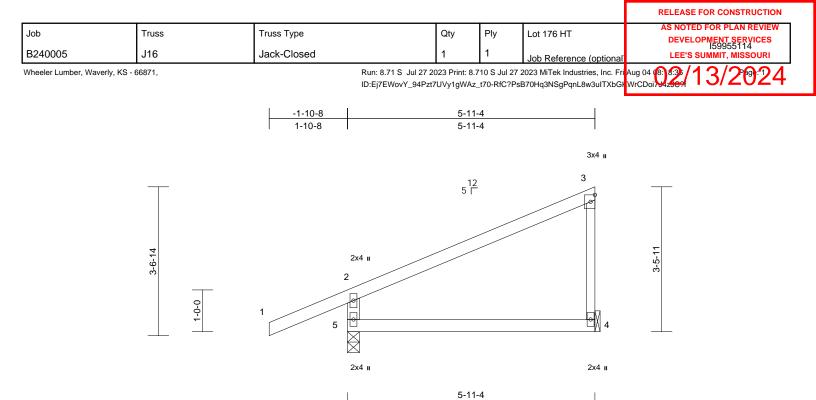
| Plate Offsets (X, Y): [5: | 0-5-6,0-1-8] | | | | | | | | | | | |
|--|--|---|---|--|----------------------|--|------------------------------------|---------------------------------|---------------------------------------|---------------------------------|--------------------------------|------------------------------------|
| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 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-R | 0.28 0.07 0.00 | DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL) | in 0.00 0.00 0.00 0.00 | (loc) 4-5 4-5 3 4-5 | l/defl >999 >999 n/a >999 | L/d 360 240 n/a 240 | PLATES MT20 Weight: 9 lb | GRIP 197/144 FT = 10% |
| BOT CHORD 2-9-14 c Rigid ce bracing. REACTIONS (size) Max Hori: Max Uplif | No.2 No.2 No.2 No.2 No.2 No.2 No.2 No.2 | athing directly applie ccept end verticals. applied or 10-0-0 oc nical, 4= Mechanica 4) 8), 5=-124 (LC 4) 1), 4=44 (LC 3), 5=3 | ; I, | Standard | | | | | | | | |
| Tension | Aximum Com (ult=115mph =6.0psf; BCI MWFRS (en ght exposed ; designed for oncurrent wit n designed for oncurrent wit a concertion (l d in accorda ntial Code se | DL=6.0psf; h=25ft; C velope) exterior zon ; end vertical left and 0 plate grip DOL=1.6 a 10.0 psf bottom th any other live load or a live load of 20.0 where a rectangle fit between the botto ss connections. by others) of truss to ding 124 lb uplift at nce with the 2018 ections R502.11.1 ar | e; d 50 ds. psf m o joint | | | | | | | | STATE OF SCOT SEV | T.M. IER 018807 |

International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



August 7,2023

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| Scale = 1:27.6 | | | | | | | | | | | | | |
|----------------|-------|-----------------|-------|-----|------|----------|-------|-------|--------|-----|--------|---------|--|
| 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 | 0.38 | Vert(LL) | -0.04 | 4-5 | >999 | 360 | MT20 | 197/144 | |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.26 | Vert(CT) | -0.09 | 4-5 | >773 | 240 | | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 4 | n/a | n/a | | | |

Wind(LL)

0.02

4-5 >999 240 Weight: 19 lb

FT = 10%

Matrix-R

| LUMBER | | | LOAD CASE(S) | Standard |
|-----------|------------|------------------------------------|--------------|----------|
| TOP CHORD | 2x4 SPF I | No.2 | | |
| BOT CHORD | 2x4 SPF I | No.2 | | |
| WEBS | 2x4 SPF I | No.2 *Except* 3-4:2x3 SPF No.2 | | |
| BRACING | | | | |
| TOP CHORD | Structura | wood sheathing directly applied or | | |
| | 5-11-4 oc | purlins, except end verticals. | | |
| BOT CHORD | Rigid ceil | ing directly applied or 10-0-0 oc | | |
| | bracing. | | | |
| REACTIONS | (size) | 4= Mechanical, 5=0-3-8 | | |
| | Max Horiz | 5=150 (LC 5) | | |
| | Max Uplift | 4=-56 (LC 8), 5=-85 (LC 8) | | |
| | Max Grav | 4=231 (LC 1), 5=423 (LC 1) | | |
| FORCES | (lb) - Max | imum Compression/Maximum | | |

Code

IRC2018/TPI2014

10.0

Tension TOP CHORD 2-5=-373/129, 1-2=0/54, 2-3=-138/37, 3-4=-167/81 BOT CHORD 4-5=-41/31

NOTES

TCDI BCLL BCDL

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss is not designed to support a ceiling and is not intended for use where aesthetics are a consideration.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections. 5)
- Provide mechanical connection (by others) of truss to 6) bearing plate capable of withstanding 85 lb uplift at joint 5 and 56 lb uplift at joint 4.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



August 7,2023

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)



| | | | | | | RELEASE FOR CONSTRUCTION |
|-------------------------|----------------|-------------|-----------|-----|--|---|
| Job | Truss | Truss Type | Qty | Ply | Lot 176 HT | AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 159955115 |
| B240005 | J17 | Jack-Closed | 2 | 1 | Job Reference (optional | |
| Wheeler Lumber, Waverly | ν, KS - 66871, | | | | 2023 MiTek Industries, Inc. Fri B70Hq3NSgPqnL8w3uITXbGł | |
| | | | 5-11-4 | | ——————————————————————————————————————— | |
| | | | | | 3х6 и | |
| | T | | 12 5 Г | | 2 - | \top |
| | 3-5-11 | 2x4 II | | | с | - 5 5 |
| | | | | | | |

2x4 II

| 5-11-4 |
|--------|
| |

| 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 | 0.50 | Vert(LL) | -0.05 | 3-4 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.28 | Vert(CT) | -0.10 | 3-4 | >707 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-R | | Wind(LL) | 0.02 | 3-4 | >999 | 240 | Weight: 17 lb | FT = 10% |

3x4 II

LUMBER

Scale - 1.26.8

| TOP CHORD | 2x4 SPF No.2 |
|-----------|--------------|
| BOT CHORD | 2x4 SPF No.2 |
| WEBS | 2x3 SPF No.2 |

| BRACING | |
|-----------|---|
| TOP CHORD | Structural wood sheathing directly applied or |
| | 5-11-4 oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc |
| | bracing. |

REACTIONS (size) 3= Mechanical, 4=0-3-8 Max Horiz 4=133 (LC 5) Max Uplift 3=-63 (LC 8), 4=-33 (LC 8) Max Grav 3=258 (LC 1), 4=258 (LC 1) FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD 1-4=-212/76, 1-2=-139/38, 2-3=-189/89 BOT CHORD 3-4=-41/38

NOTES

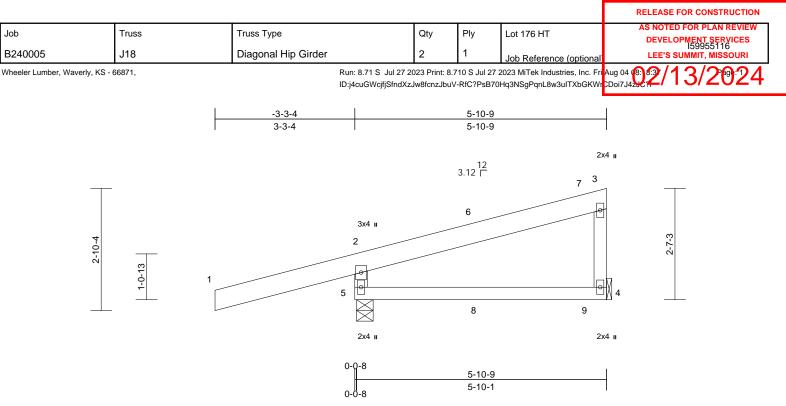
- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss is not designed to support a ceiling and is not intended for use where aesthetics are a consideration.
- This truss has been designed for a 10.0 psf bottom 3)
- chord live load nonconcurrent with any other live loads.
 This truss has been designed for a live load of 20.0psf 4) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections. 5)
- Provide mechanical connection (by others) of truss to 6) bearing plate capable of withstanding 33 lb uplift at joint 4 and 63 lb uplift at joint 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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)





Scale = 1:26.9

| Scale = 1.20.9 | | | | | | | | | | | | |
|---------------------|--------------|-----------------|-----------------|--|--------------|-------------|-------|-------|--------|-----|---------------|----------|
| 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 | тс | 0.43 | Vert(LL) | 0.05 | 4-5 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.22 | Vert(CT) | -0.05 | 4-5 | >999 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | NO | WB | 0.00 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-R | | Wind(LL) | -0.04 | 4-5 | >999 | 240 | Weight: 26 lb | FT = 20% |
| LUMBER TOP CHORD | 2x6 SPF No.2 | | provided su | or other connecti fficient to suppo | rt concentra | ted load(s) | | | | | | |

| BOT CHORD | 284 366 1 | NU.2 | | | | |
|-----------|--|------------------------------------|--|--|--|--|
| WEBS | 2x4 SPF I | No.2 | | | | |
| BRACING | | | | | | |
| TOP CHORD | Structura | wood sheathing directly applied or | | | | |
| | 5-10-9 oc | purlins, except end verticals. | | | | |
| BOT CHORD | Rigid ceiling directly applied or 6-0-0 oc | | | | | |
| | bracing. | | | | | |
| REACTIONS | (size) | 4= Mechanical, 5=0-4-11 | | | | |
| | Max Horiz | 5=109 (LC 5) | | | | |
| | Max Uplift | 4=-61 (LC 8), 5=-244 (LC 4) | | | | |
| | Max Grav | 4=222 (LC 15), 5=545 (LC 1) | | | | |

- FORCES
 (lb) Maximum Compression/Maximum Tension

 TOP CHORD
 2-5=-505/262, 1-2=0/60, 2-3=-121/37,
- 3-4=-149/87 BOT CHORD 4-5=-26/69

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 244 lb uplift at joint 5 and 61 lb uplift at joint 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

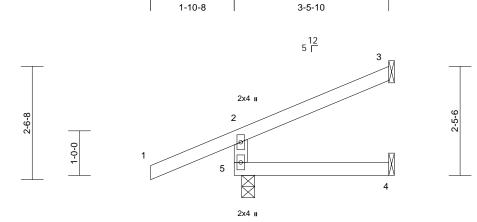
- Pranger(s) of other connection device(s) shall be provided sufficient to support concentrated load(s) 77 lb down and 25 lb up at 2-9-5, and 68 lb down and 65 lb up at 2-9-11, and 66 lb down and 49 lb up at 5-4-7 on top chord, and 36 lb down and 110 lb up at 2-9-5, and 10 lb down and 16 lb up at 2-9-11, and 25 lb down at 5-4-7 on bottom chord. The design/selection of such connection device(s) is the responsibility of others. In the LOAD CASE(S) section, loads applied to the face
- of the truss are noted as front (F) or back (B).
- LOAD CASE(S) Standard
 - 1) Dead + Roof Live (balanced): Lumber Increase=1.15,
 - Plate Increase=1.15
 - Uniform Loads (lb/ft) Vert: 1-2=-70, 2-3=-70, 4-5=-20
 - Concentrated Loads (lb)
 - Vert: 7=-22 (F), 8=38 (B), 9=-7 (F)



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 **ANSUTPIT Quality Criteria, and DSE-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 | Lot 176 HT | AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 159955117 |
| B240005 | J19 | Jack-Open | 2 | 1 | Job Reference (optional | |
| Wheeler Lumber, Waverly | Aug 04 (8) 53/13/2024 WrCDoi 1942551 | | | | | |
| | | -1-10-8 | 3 3-5 | i-10 | | |





Scale = 1:25.9

| 00010 - 1.20.0 | 5 | | | | | | | | | | | |
|----------------|--|-------------------------|-----------------|----------|------|----------|-------|-------|--------|-------------|---------------|----------|
| 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 | 0.28 | Vert(LL) | -0.01 | 4-5 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.08 | Vert(CT) | -0.01 | 4-5 | >999 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-R | | Wind(LL) | 0.00 | 4-5 | >999 | 240 | Weight: 11 lb | FT = 10% |
| LUMBER | | | | | | | | | | | | |
| TOP CHORD | | | | | | | | | | | | |
| BOT CHORD | | | | | | | | | | | | |
| WEBS | 2x4 SPF No.2 | | | | | | | | | | | |
| BRACING | | | | | | | | | | | | |
| TOP CHORD | | | | | | | | | | | | |
| | 3-5-10 oc purlins, e | | | | | | | | | | | |
| BOT CHORD | D Rigid ceiling directly bracing. | applied of 10-0-0 0 | C | | | | | | | | | |
| REACTIONS | 0 | nical, 4= Mechanic | al | | | | | | | | | |
| REAGINGING | 5=0-3-8 | | ai, | | | | | | | | | |
| | Max Horiz 5=74 (LC | 8) | | | | | | | | | | |
| | Max Uplift 3=-49 (LC | 3), 5=-71 (LC 4) | | | | | | | | | | |
| | Max Grav 3=79 (LC (LC 1) | 1), 4=58 (LC 3), 5= | 332 | | | | | | | | | |
| FORCES | (lb) - Maximum Com | pression/Maximum | | | | | | | | | | |
| TOP CHORD | Tension 2-5=-290/95, 1-2=0/9 | 54 2 2 - 50/22 | | | | | | | | | | |
| BOT CHORE | , | 54, 2-5=-59/22 | | | | | | | | | | |
| NOTES | 9 4-3-0/0 | | | | | | | | | | | |
| | SCE 7-16; Vult=115mph | (3-second quist) | | | | | | | | | | |
| | mph; TCDL=6.0psf; BC | | Cat. | | | | | | | | | |
| | ; Enclosed; MWFRS (er | | | | | | | | | | | |
| | r left and right exposed | | | | | | | | | | ~ | ~ |
| | osed; Lumber DOL=1.6 | | 60 | | | | | | | | A | and the |
| | s has been designed for | | 4- | | | | | | | | TATEOF | MISS D |
| | e load nonconcurrent wi iss has been designed f | | | | | | | | | A | | 1.5 |
| | ottom chord in all areas | | JP31 | | | | | | | A | SCOT | TM. |
| | tall by 2-00-00 wide will | | om | | | | | | | 4 | / SEV | IER \ Y |
| chord an | d any other members. | | | | | | | | | Max. | | 1 * 1 |
| | girder(s) for truss to tru | | | | | | | | 4 | 5 81 | TH | Adamak |
| | mechanical connection (| | | | | | | | | | oll - | BER |
| booring r | nate canable of withstar | naina 71 lh unlift at i | oint | | | | | | | | | |

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 71 lb uplift at joint 5 and 49 lb uplift at joint 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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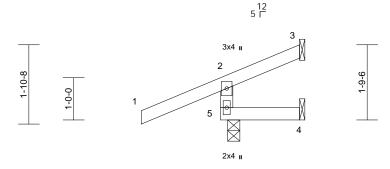


| | | | | | | RELEASE FOR CONSTRUCTION |
|---------|-------|------------|-----|-----|-------------------------|---|
| Job | Truss | Truss Type | Qty | Ply | Lot 176 HT | AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES |
| B240005 | J20 | Jack-Open | 2 | 1 | Job Reference (optional | DEVELOPMENT SERVICES 159955118 LEE'S SUMMIT, MISSOURI |
| | | - | | | | |

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.71 S Jul 27 2023 Print: 8.710 S Jul 27 2023 MiTek Industries, Inc. Fri Aug 04 8 3.3 / 1 3/2 9:24 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3uITXbGt WrCDoi 94.2 5 4

| -1-10-8 | 1-10-7 |
|---------|--------|
| 1-10-8 | 1-10-7 |





Scale = 1:27.3

| 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 | 0.28 | Vert(LL) | 0.00 | 4-5 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.08 | Vert(CT) | 0.00 | 4-5 | >999 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | -0.01 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-R | | Wind(LL) | 0.00 | 4-5 | >999 | 240 | Weight: 7 lb | FT = 10% |
| LUMBER | | | LOAD CASE(S) | Standard | | | | | | | | |
| TOP CHORE | D 2x4 SPF No.2 | | | | | | | | | | | |
| BOT CHORE | D 2x4 SPF No.2 | | | | | | | | | | | |
| WEBS | 2x4 SPF No.2 | | | | | | | | | | | |
| BRACING | | | | | | | | | | | | |
| TOP CHORE | O Structural wood she | athing directly appli | ed or | | | | | | | | | |
| | 1-10-7 oc purlins, e | xcept end verticals. | | | | | | | | | | |
| BOT CHORE | | applied or 10-0-0 o | С | | | | | | | | | |
| | bracing. | | | | | | | | | | | |
| REACTIONS | | anical, 4= Mechanica | al, | | | | | | | | | |
| | 5=0-3-8 | - | | | | | | | | | | |
| | Max Horiz 5=53 (LC | , | ~~ | | | | | | | | | |
| | Max Uplift 3=-16 (LC (LC 4) | 58), 4=-6 (LC 1), 5= | -86 | | | | | | | | | |
| | (LC 4) Max Grav 3=5 (LC 1 | 9) 4-25 (IC 3) 5- | 302 | | | | | | | | | |
| | (LC 1) | 3), 4=23 (LO 3), 3= | 502 | | | | | | | | | |
| FORCES | (Ib) - Maximum Com | nression/Maximum | | | | | | | | | | |
| 1011020 | Tension | proceinin | | | | | | | | | | |
| TOP CHORE | 0 2-5=-262/95, 1-2=0/ | 54, 2-3=-46/1 | | | | | | | | | | |
| BOT CHORE | D 4-5=0/0 | | | | | | | | | | | |
| NOTES | | | | | | | | | | | | |
| 1) Wind: AS | SCE 7-16; Vult=115mph | (3-second gust) | | | | | | | | | | |
| Vasd=91 | 1mph; TCDL=6.0psf; BC | DL=6.0psf; h=25ft; | Cat. | | | | | | | | | |
| | ; Enclosed; MWFRS (er | | | | | | | | | | | |
| | er left and right exposed | | | | | | | | | | Son | Jan |
| | osed; Lumber DOL=1.6 | | 60 | | | | | | | | E. OF | MISS |
| | s has been designed for | | da | | | | | | | 4 | 2 Mil | N'SON |
| | e load nonconcurrent wi uss has been designed f | | | | | | | | | B | STATE OF SCOT | TM XPN |
| | ottom chord in all areas | | opoi | | | | | | | B | SEV | |
| | tall by 2-00-00 wide will | | om | | | | | | | 81 | | ···· \+ \ |
| | any other members. | | - | | | | | | | 20 | 1 | 0 24 |
| | girder(s) for truss to tru | ss connections. | | | | | | | | JA A | hatts | Server 1 |
| 5) Provide I | mechanical connection (| (by others) of truss t | 0 | | | | | | | 5 | NUM | DER |

nection (by ou bearing plate capable of withstanding 6 lb uplift at joint 4, 16 lb uplift at joint 3 and 86 lb uplift at joint 5.

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



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16023 Swingley Ridge Rd. Chesterfield MO 63017 314.434.1200 / MiTek-US.com

| | | | | | | RELEASE FOR CONSTRUCTION |
|------------------------|--|------------|-----|-----|-------------------------|---|
| Job | Truss | Truss Type | Qty | Ply | Lot 176 HT | AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 159955119 |
| B240005 | J21 | Jack-Open | 1 | 1 | Job Reference (optional | |
| Wheeler Lumber, Waverl | Aug 04 (8) 63 / 13/20 24 WrCDoily42 | | | | | |

2

3x10 ш

0-8-8

0-8-8

0.30

0.36

0.00

6

2-9-14

2-9-14

12 4 Г

 \bigotimes 5

2-9-14

2-1-6

DEFL

Vert(LL)

Vert(CT)

Horz(CT)

Wind(LL)

3

4

in (loc)

0.01

0.01

-0.03

-0.01

-9-5

PLATES

Weight: 9 lb

MT20

GRIP

197/144

FT = 10%

l/defl

>999

>999

>999

n/a n/a

4-5

4-5

4-5

3

L/d

360

240

240

-1-10-8

1-10-8

Structural wood sheathing directly applied or 2-9-14 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc 3= Mechanical, 4= Mechanical, 5=0-3-8 Max Horiz 5=62 (LC 4) 3=-25 (LC 8), 4=-78 (LC 1), 5=-187 (LC 4) 3=25 (LC 1), 4=55 (LC 4), 5=430 (LC 1)

2-0-0

1.15

1.15

YES

IRC2018/TPI2014

1-10-8

0-10-0

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-6=-300/150, 1-2=0/45, 2-3=-50/2 BOT CHORD 5-6=-12/62, 4-5=0/0

NOTES

Scale = 1:25.3

Loading

TCDL

BCLL

BCDL

WEBS BRACING TOP CHORD

LUMBER

TOP CHORD

BOT CHORD

BOT CHORD

REACTIONS (size)

TCLL (roof)

Plate Offsets (X, Y): [6:0-5-6,0-1-8]

2x4 SPF No.2

2x4 SPF No.2

2x4 SPF No.2

bracing.

Max Uplift

Max Grav

(psf)

25.0

10.0

10.0

0.0*

Spacing

Code

Plate Grip DOL

Rep Stress Incr

Lumber DOL

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads. 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections. Provide mechanical connection (by others) of truss to 5)
- bearing plate capable of withstanding 25 lb uplift at joint 3, 78 lb uplift at joint 4 and 187 lb uplift at joint 5.

6) This truss is designed in accordance with the 2018

International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

CSI

TC

BC

WB

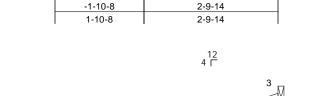
Matrix-R

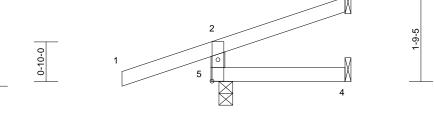


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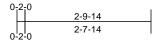


| | | | | | | RELEASE FOR CONSTRUCTION |
|----------------------------|-------------|------------|---------------------------------|--------------|---------------------------------------|-----------------------------------|
| Job | Truss | Truss Type | Qty | Ply | Lot 176 HT | AS NOTED FOR PLAN REVIEW |
| | | | ~., | , | | DEVELOPMENT SERVICES 159955120 |
| B240005 | J22 | Jack-Open | 1 | 1 | Job Reference (optional | LEE'S SUMMIT, MISSOURI |
| Wheeler Lumber, Waverly, H | KS - 66871, | Run | : 8.71 S Jul 27 2023 Print: 8.7 | '10 S Jul 27 | 2023 MiTek Industries, Inc. Fri | Aug 04 🚯 🕄 🕽 🖊 🕇 🏹 🏸 🖓 🗍 |
| | | ID:E | j7EWovY_94Pzt7UVy1gWAz_ | t70-RfC?Ps | sB70Hq3NSgPqnL8w3uITXbGł | |
| | | | | | · · · · · · · · · · · · · · · · · · · | |





3x10 🛛



Scale = 1:24.3

Plate Offsets (X, Y): [5:0-5-6,0-1-8]

1-10-8

| | | 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 | тс | 0.28 | Vert(LL) | 0.00 | 4-5 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.07 | Vert(CT) | 0.00 | 4-5 | >999 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-R | | Wind(LL) | 0.00 | 4-5 | >999 | 240 | Weight: 9 lb | FT = 10% |
| LUMBER TOP CHORD | 2x4 SPF No.2 | | LOAD CASE(S) | Standard | | | | | | | | |
| BOT CHORD | 2x4 SPF No.2 | | | | | | | | | | | |
| WEBS | 2x4 SPF No.2 | | | | | | | | | | | |
| | 2 | | | | | | | | | | | |
| FOP CHORD | Structural wood she | athing directly appli | ed or | | | | | | | | | |
| | 2-9-14 oc purlins, e | | | | | | | | | | | |
| BOT CHORD | Rigid ceiling directly bracing. | applied or 10-0-0 o | 0C | | | | | | | | | |
| REACTIONS | (size) 3= Mecha | anical, 4= Mechanica | al, | | | | | | | | | |
| | 5=0-3-8 | | | | | | | | | | | |
| | Max Horiz 5=62 (LC | | | | | | | | | | | |
| | Max Uplift 3=-31 (LC | | | | | | | | | | | |
| | Max Grav 3=52 (LC (LC 1) | 1), 4=44 (LC 3), 5= | -314 | | | | | | | | | |
| FORCES | (lb) - Maximum Com Tension | npression/Maximum | | | | | | | | | | |
| TOP CHORD BOT CHORD | 2-5=-273/139, 1-2=0 4-5=0/0 | 0/45, 2-3=-42/11 | | | | | | | | | | |
| NOTES | 10-0/0 | | | | | | | | | | | |
| | CE 7-16; Vult=115mph | (3-second qust) | | | | | | | | | | |
| | nph; TCDL=6.0psf; BC | | Cat. | | | | | | | | | |
| | Enclosed; MWFRS (er | | | | | | | | | | | COL. |
| cantilever | left and right exposed | ; end vertical left an | nd | | | | | | | | 6 OF | MICH |
| | sed; Lumber DOL=1.6 | | .60 | | | | | | | | ALE OF | MISS |
| | has been designed fo | | | | | | | | | A | TATE OF | 1.5 |
| | load nonconcurrent wi | | | | | | | | | A | S/ SCOT | M. NEW |
| | ss has been designed f ttom chord in all areas | | Upst | | | | | | | 4 | / SEV | TER Y |
| | all by 2-00-00 wide will | | om | | | | | | | 100 | | 0 |
| | any other members. | | | | | | | | | YX . | 15 | Serlos |
| | irder(s) for truss to tru | iss connections. | | | | | | | ø | | NUM | |
| | echanical connection | | to | | | | | | | 27 | | |
| bearing pl | ate capable of withstar | nding 124 lb uplift at | t joint | | | | | | | N. | PE-2001 | 101880/ |
| | | | | | | | | | | | | |

up ıg ս յս 5 and 31 lb uplift at joint 3. This truss is designed in accordance with the 2018 6)

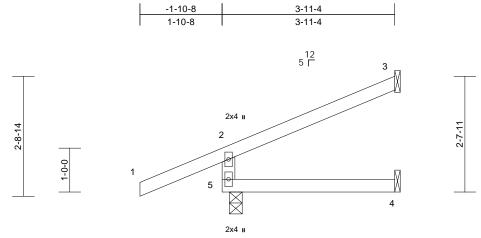
International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

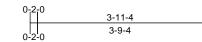


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| | | | | | | | RELEASE FOR CONSTRUCTION |
|----------------------|---|------------|-----|---|-----|-------------------------|---|
| Job | Truss | Truss Type | Qty | / | Ply | Lot 176 HT | |
| B240005 | J23 | Jack-Open | 1 | | 1 | Job Reference (optional | DEVELOPMENT SERVICES 159955121 LEE'S SUMMIT, MISSOURI |
| Wheeler Lumber, Wave | Aug 04 (6) 53 / 13 / 2024 WrCDoi / 42007 | | | | | | |
| | | | | | | • | |





Scale = 1:26.3

| 3 | | | | | | | | | | | |
|--------------------------|--|--|--|--|--|--|---|--|---|--|--|
| (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
| 25.0 | Plate Grip DOL | 1.15 | тс | 0.28 | Vert(LL) | -0.01 | 4-5 | >999 | 360 | MT20 | 197/144 |
| 10.0 | Lumber DOL | 1.15 | BC | 0.11 | Vert(CT) | -0.02 | 4-5 | >999 | 240 | | |
| 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | -0.01 | 3 | n/a | n/a | | |
| 10.0 | Code | IRC2018/TPI2014 | Matrix-R | | Wind(LL) | 0.01 | 4-5 | >999 | 240 | Weight: 12 lb | FT = 10% |
| | | | | | | | | | | | |
| 2x4 SPF No.2 | | | | | | | | | | | |
| 2x4 SPF No.2 | | | | | | | | | | | |
| 2x4 SPF No.2 | | | | | | | | | | | |
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| | | ed or | | | | | | | | | |
| | | | | | | | | | | | |
| 0 0 7 | applied or 10-0-0 o | C | | | | | | | | | |
| 0 | | | | | | | | | | | |
| | inical, 4= Mechanica | al, | | | | | | | | | |
| | 8) | | | | | | | | | | |
| | | | | | | | | | | | |
| | | 348 | | | | | | | | | |
| (LC 1) | // - (// - | | | | | | | | | | |
| (lb) - Maximum Com | pression/Maximum | | | | | | | | | | |
| Tension | | | | | | | | | | | |
| | 54, 2-3=-66/28 | | | | | | | | | | |
| 0 4-5=0/0 | | | | | | | | | | | |
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| | | ds. | | | | | | | | FIE | 000 |
| | | | | | | | | | 6 | N | NSY |
| ottom chord in all areas | where a rectangle | | | | | | | | B | - | |
| | fit between the botto | om | | | | | | | B | / SEV | TER \ Y |
| d any other members. | | | | | | | | | Rot | | 0 |
| | | | | | | | | | X. | J.HS | Non Link |
| mechanical connection (| by others) of truss t | 0 | | | | | | | | NUM | XUNTUN |
| | 10.0 0.0* 10.0 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 3.11-4 oc purlins, e Rigid ceiling directly bracing. (size) 3= Mecha 5=0-3.8 Max Horiz 5=82 (LC Max Uplift 3=-57 (LC Max Grav 3=98 (LC (LC 1) (lb) - Maximum Com Tension 2-5=-305/97, 1-2=0/ 3.2 5 (LC 7-16; Vult=115mph mph; TCDL=6.0psf; BC Enclosed; MWFRS (er r left and right exposed osed; Lumber DCL=1.6 s has been designed fo totom chord in all areas all by 2-00-00 wide will by 2-00-00 wide will by 2-00-00 wide will | 25.0 10.0 10.0 10.0 10.0 10.0 10.0 Rep Stress Incr Code 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 Structural wood sheathing directly applied 3-11-4 oc purlins, except end verticals. Structural wood sheathing directly applied 3-11-4 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 o bracing. (size) 3= Mechanical, 4= Mechanicat 5=0-3-8 Max Horiz 5=82 (LC 8) Max Uplift 3=-57 (LC 8), 5=-69 (LC 4) Max Grav 3=98 (LC 1), 4=67 (LC 3), 5=: (LC 1) (lb) - Maximum Compression/Maximum Tension 2-5=-305/97, 1-2=0/54, 2-3=-66/28 4-5=0/0 3CE 7-16; Vult=115mph (3-second gust) mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 4 Enclosed; MWFRS (envelope) exterior zor r left and right exposed ; end vertical left an speci; Lumber DOL=1.60 plate grip DOL=1. s has been designed for a live load of 20.0 totom chord in all areas where a rectangle all by 2-00-00 wide will fit between the bottod d any other members. girder(s) for truss to truss connections. | 25.0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 Structural wood sheathing directly applied or 3-11-4 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing. (size) 3= Mechanical, 4= Mechanical, 5=0-3-8 Max Horiz 5=82 (LC 8) Max Uplift 3=-57 (LC 8), 5=-69 (LC 4) Max Grav 3=98 (LC 1), 4=67 (LC 3), 5=348 (LC 1) (b) - Maximum Compression/Maximum Tension 2-5=-305/97, 1-2=0/54, 2-3=-66/28 4-5=0/0 3CE 7-16; Vult=115mph (3-second gust) mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. Enclosed; MWFRS (envelope) exterior zone; r left and right exposed ; end vertical left and osed; Lumber DOL=1.60 plate grip DOL=1.60 s has been designed for a 10.0 psf bottom a load nonconcurrent with any other live loads. ss has been designed for a live load of 20.0psf ottom chord in all areas where a rectangle all by 2-00-00 wide will fit between the bottom d any other members. | 25.0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES WB Matrix-R 10.0 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 Structural wood sheathing directly applied or 3-11-4 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0 oc bracing. (size) 3= Mechanical, 4= Mechanical, 5=0-3-8 Max Horiz 5=82 (LC 8) Max Grav 3=98 (LC 1), 4=67 (LC 3), 5=348 (LC 1) (lb) - Maximum Compression/Maximum Tension 2-5=-305/97, 1-2=0/54, 2-3=-66/28 4-5=0/0 SCE 7-16; Vult=115mph (3-second gust) mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. Enclosed; MWFRS (envelope) exterior zone; r left and right exposed ; end vertical left and 2sed; Lumber DOL=1.60 plate grip DOL=1.60 s has been designed for a 10.0 psf bottom a load nonconcurrent with any other live loads. ss has been designed for a live load of 20.0psf any other members. girder(s) for truss to truss connections. | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | 25.0 Plate Grip DOL 1.15 TC 0.28 Vert(LL) -0.01 0.0* Rep Stress Incr YES WB 0.00 Horz(CT) -0.02 0.0 Code IRC2018/TPI2014 Matrix-R Wind(LL) 0.01 0 2x4 SPF No.2 Structural wood sheathing directly applied or 3-11-4 oc purlins, except end verticals. Wind(LL) 0.01 9 Structural wood sheathing directly applied or 3-14-4 oc purlins, except end verticals. Nigid ceiling directly applied or 10-0-0 oc bracing. 5=0-3-8 Max Horiz 5=82 (LC 8) Max Horiz 5=82 (LC 8) Max Horiz 5=82 (LC 1), 4=67 (LC 3), 5=-348 (LC 1) (LC 1) (lb) - Maximum Compression/Maximum Tension 2-25=-305/97, 1-2=0/54, 2-3=-66/28 4-5=0/0 5 GE 7-16; Vult=115mph (3-second gust) mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. Enclosed; MWFRS (envelope) exterior zone; r left and right exposed ; end vertical left and seed; jumber DOL=1.60 plate grip DOL=1.60 sst ss has been designed for a live load of 20.0psf titom chord in all areas where a rectangle all by 2-00-00 wide will fit between the bottom dany other members. grider(s) for truss to truss connections. 5 | 25.0 Piate Grip DOL 1.15 TC 0.28 Vert(LL) -0.01 4-5 0.0* Rep Stress Incr YES BC 0.01 Horz(CT) -0.02 4-5 0.0* Rep Stress Incr YES WB 0.00 Horz(CT) -0.01 4-5 0.0* Rep Stress Incr YES Matrix-R Wind(LL) 0.01 4-5 2x4 SPF No.2 Structural wood sheathing directly applied or | 25.0 Plate Grp DOL 1.15 TC 0.28 Vert(LL) -0.01 4-5 >999 0.0* Rep Stress Incr YES WB 0.00 Horz(CT) -0.02 4-5 >999 0.0* Code IRC2018/TPI2014 Matrix-R Wind(LL) 0.01 4-5 >999 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 Structural wood sheathing directly applied or | 25.0 Plate Grip DOL 1.15 TC 0.28 Vert(LL) -0.01 4-5 >999 360 0.0* Rep Stress Incr YES BC 0.10 Hort(CT) -0.02 4-5 >999 240 0.0* Rep Stress Incr YES WB 0.00 Matrix-R Wind(LL) 0.01 4-5 >999 240 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 Structural wood sheathing directly applied or | 25.0 Plate Grip DOL 1.15 TC 0.28 Vert(LL) -0.01 4-5 >999 360 MT20 0.0 Rep Stress Incr YES WB 0.00 Hert(CT) -0.01 4-5 >999 240 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.01 4-5 >999 240 10.0 Code IRC2018/TPI2014 Matrix-R Wind(LL) 0.01 4-5 >999 240 Weight: 12 lb 2x4 SPF No.2 zx4 SPF No.2 9 Structural wood sheathing directly applied or 10-0-0 oc bracing. Straing. Structural wood sheathing directly applied or 3.5=-038 Max Voirt 3=-57 (LC 8), 5=-69 (LC 4) Max Horit 5==622 (LC 8) Max Max Maximum Compression/Maximum Tension 2-5=-305/97, 1-2=0/54, 2-3=-66/28 -2-5=-305/97, 1-2=0/54, 2-3=-66/28 -2-5=-305/97, 1-2=0/54, 2-3=-66/28 -2-5=-305/97, 1-2=0/54, 2-3=-66/28 -2-5=-305/97, 1-2=0/54, 2-3=-66/28 -2-5=-305/97, 1-2=0/54, 2-3=-66/28 -2-5=-305/97, 1-2=0/54, 2-3=-66/28 -2-5=-305/97, 1-2=0/54, 2-3=-66/28 -2-5=-305/97, 1-2=0/54, 2-3=-66/28 < |

 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 69 lb uplift at joint 5 and 57 lb uplift at joint 3.
 6) This truss is designed in accordance with the 2018

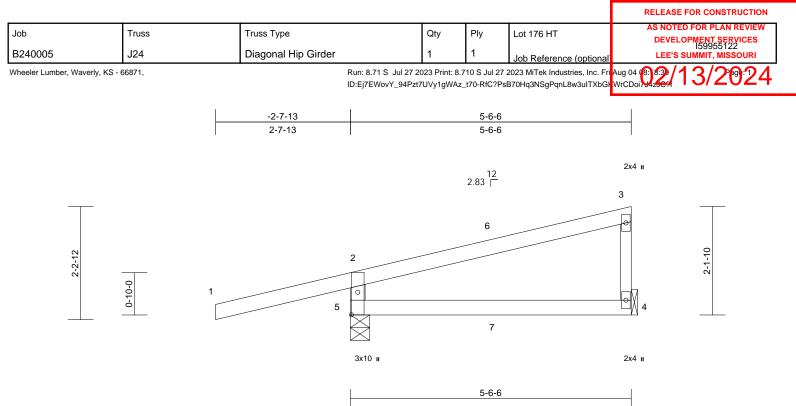
International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com



Scale = 1:22.7

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

| | | | | | | | | | | | - | |
|---|--|--|--|---|---|--|---------------------------------------|---------------------------------|---------------------------------------|---------------------------------|---------------------------------|------------------------------------|
| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 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-R | 0.63 0.23 0.00 | DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL) | in -0.03 -0.06 0.00 -0.02 | (loc) 4-5 4-5 4 4-5 | l/defl >999 >999 n/a >999 | L/d 360 240 n/a 240 | PLATES MT20 Weight: 18 lb | GRIP 197/144 FT = 10% |
| LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD | 2x4 SPF No.2 2x4 SPF No.2 *Exce Structural wood she 5-6-6 oc purlins, exi Rigid ceiling directly bracing. (size) 4= Mecha Max Horiz 5=88 (LC Max Uplift 4=-31 (LC Max Grav 4=186 (LC (lb) - Maximum Com Tension | athing directly applie cept end verticals. applied or 10-0-0 oc anical, 5=0-4-9 5) 2 8), 5=-186 (LC 4) C 1), 5=485 (LC 1) ppression/Maximum | d or at 2-9-8, and c -9-8, an | or other connection ufficient to support 11 lb up at 2-9-8, in top chord, and 1 14 lb down and 1 e design/selection esponsibility of ott AD CASE(S) section s are noted as from S) Standard Roof Live (balance rease=1.15 Loads (lb/ft) -2=-70, 2-3=-70, 4 | rt concentra , and 70 lb 14 lb down 6 lb up at o of such co ners. on, loads a nt (F) or ba | ated load(s) 7 down and 11 and 16 lb up 2-9-8 on bott onnection dev pplied to the ick (B). | l lb up at tom vice face | | | | | |



NOTES

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

4-5=-19/61

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 186 lb uplift at joint 5 and 31 lb uplift at joint 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

SCOTT M. SEVIER PE-2001018807

August 7,2023



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| Job | Truss | Truss Type | Qty | Ply | Lot 176 HT | DEVELOPMENT SERVICES 159955123 |
|---------|-------|------------|-----|-----|-------------------------|-----------------------------------|
| B240005 | J25 | Jack-Open | 2 | 1 | Job Reference (optional | LEE'S SUMMIT, MISSOURI |
| | | | | | | |

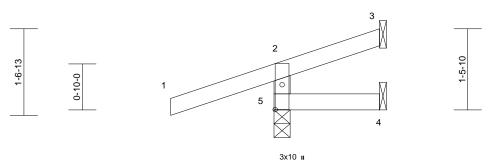
Wheeler Lumber, Waverly, KS - 66871,

Run: 8.71 S Jul 27 2023 Print: 8.710 S Jul 27 2023 MiTek Industries, Inc. Fri Aug 04 (6) 32 / 13/2024 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3uITXbGI WrCDoity-25001

| -1-10-8 | 1-10-15 |
|---------|---------|
| 1-10-8 | 1-10-15 |



1-10-15



| Scale = 1:20.9 | |
|----------------|--|
|----------------|--|

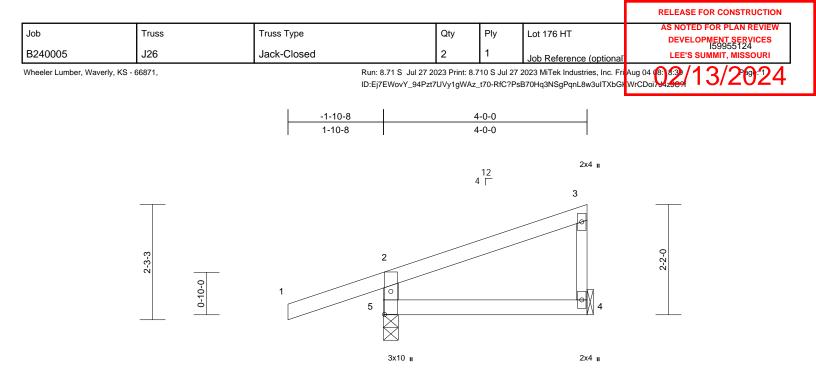
Plate Offsets (X, Y): [5:0-5-6,0-1-8]

| | | 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 | |).28 | Vert(LL) | 0.00 | 4-5 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | | 0.08 | Vert(CT) | 0.00 | 4-5 | >999 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | | 0.00 | Horz(CT) | 0.00 | . 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-R | | Wind(LL) | 0.00 | 4-5 | >999 | 240 | Weight: 7 lb | FT = 10% |
| | | 0000 | | induit it | | 11.110(22) | 0.00 | | 1000 | 2.0 | rroigini r io | |
| LUMBER | | | This truss is | designed in accordance | ce wi | th the 2018 | | | | | | |
| TOP CHORD | 2x4 SPF No.2 | | | Residential Code sec | | | nd | | | | | |
| BOT CHORD | 2x4 SPF No.2 | | R802.10.2 a | nd referenced standar | rd AN | ISI/TPI 1. | | | | | | |
| WEBS | 2x4 SPF No.2 | | LOAD CASE(S) | Standard | | | | | | | | |
| BRACING | | | | | | | | | | | | |
| TOP CHORD | Structural wood she | athing directly applie | ed or | | | | | | | | | |
| | 1-10-15 oc purlins, | except end verticals | | | | | | | | | | |
| BOT CHORD | Rigid ceiling directly bracing. | applied or 10-0-0 or | C | | | | | | | | | |
| REACTIONS | (size) 3= Mecha | anical, 4= Mechanica | al, | | | | | | | | | |
| | 5=0-3-8 | | | | | | | | | | | |
| | Max Horiz 5=51 (LC | 4) | | | | | | | | | | |
| | Max Uplift 3=-13 (LC | 2 8), 4=-7 (LC 1), 5=- | -134 | | | | | | | | | |
| | (LC 4) | | | | | | | | | | | |
| | Max Grav 3=5 (LC 1 | 18), 4=26 (LC 3), 5=3 | 302 | | | | | | | | | |
| | (LC 1) | | | | | | | | | | | |
| FORCES | (lb) - Maximum Com | pression/Maximum | | | | | | | | | | |
| TODOUODD | Tension | | | | | | | | | | | |
| TOP CHORD | ,, |)/45, 2-3=-37/1 | | | | | | | | | | |
| BOT CHORD | 4-5=0/0 | | | | | | | | | | | |
| NOTES | | | | | | | | | | | | |
| | CE 7-16; Vult=115mph | | | | | | | | | | | |
| | nph; TCDL=6.0psf; BC | | | | | | | | | | | 100 |
| | Enclosed; MWFRS (er left and right exposed | | | | | | | | | | THE OF I | MISSIN |
| | sed; Lumber DOL=1.6 | | | | | | | | | - 1 | A TE | |
| | has been designed fo | | 00 | | | | | | | 6 | AN I | N SS |
| | load nonconcurrent wi | | ds | | | | | | | B | SCOT | $T M. \qquad (c Y)$ |
| | s has been designed f | | | | | | | | | R | / SEV | TER \ Y |
| | tom chord in all areas | | -F | | | | | | | 7 * | | A XX |
| 3-06-00 ta | all by 2-00-00 wide will | fit between the botto | om | | | | | | | W X | | ATTALANT |
| chord and | any other members. | | | | | | | | | XX | NUM | REP |
| | irder(s) for truss to tru | | | | | | | | | 27 | DE 2001 | |
| | echanical connection | | | | | | | | | N. | PE-2001 | N10001 10001 |
| | ate capable of withstar | | joint | | | | | | | Y | | 1.SA |
| 5, 7 lb upli | ift at joint 4 and 13 lb u | iplift at joint 3. | | | | | | | | | C'SSIONA | TENS |
| | | | | | | | | | | | AUNA CONA | |
| | | | | | | | | | | | un | 20 |

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 or 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)



August 7,2023



| | 4-0-0 | |
|---------------------------------------|-------|--|
| Scale = 1:22.6 | | |
| Plate Offsets (X, Y): [5:0-5-6,0-1-8] | | |
| | | |

| 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 | тс | 0.28 | Vert(LL) | -0.01 | 4-5 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.10 | Vert(CT) | -0.02 | 4-5 | >999 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-R | | Wind(LL) | 0.00 | 4-5 | >999 | 240 | Weight: 13 lb | FT = 10% |

- LUMBER
- TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 2x4 SPF No.2 *Except* 3-4:2x3 SPF No.2 WEBS BRACING TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. REACTIONS (size) 4= Mechanical, 5=0-3-8 Max Horiz 5=93 (LC 5) Max Uplift 4=-27 (LC 8), 5=-132 (LC 4) Max Grav 4=131 (LC 1), 5=348 (LC 1)
- FORCES
 (lb) Maximum Compression/Maximum Tension

 TOP CHORD
 2-5=-308/154, 1-2=0/45, 2-3=-77/10, 3-4=-96/46

 BOT CHORD
 4-5=-23/19

NOTES

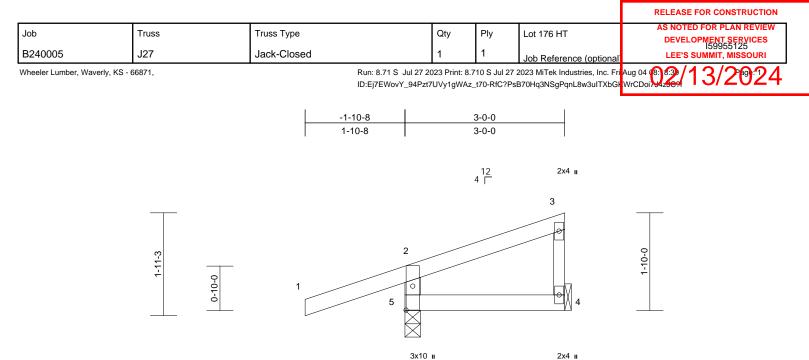
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 132 lb uplift at joint 5 and 27 lb uplift at joint 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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3x10 ш

3-0-0

| Scale = 1:21.6 | |
|-----------------------|-----------------|
| Plate Offsets (X, Y): | [5:0-5-6,0-1-8] |

| 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 | тс | 0.28 | Vert(LL) | 0.00 | 4-5 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.05 | Vert(CT) | 0.00 | 4-5 | >999 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-R | | Wind(LL) | 0.00 | 4-5 | >999 | 240 | Weight: 11 lb | FT = 10% |

- LUMBER
- TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 2x4 SPF No.2 *Except* 3-4:2x3 SPF No.2 WEBS BRACING TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. REACTIONS 4= Mechanical, 5=0-3-8 (size) Max Horiz 5=78 (LC 5) Max Uplift 4=-17 (LC 5), 5=-133 (LC 4) Max Grav 4=72 (LC 1), 5=317 (LC 1) FORCES (lb) - Maximum Compression/Maximum
- Tension TOP CHORD 2-5=-279/145, 1-2=0/45, 2-3=-53/14, 3-4=-55/29 BOT CHORD 4-5=-21/21

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to 5) bearing plate capable of withstanding 133 lb uplift at joint 5 and 17 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 6) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

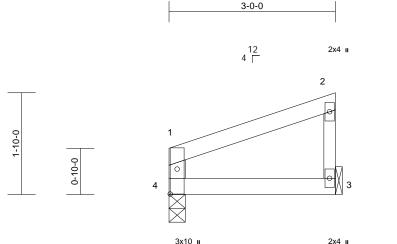


August 7,2023

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| | | | | | | RELEASE FOR CONSTRUCTION |
|-----------------------------|----------|---|----------------------------|-----------------------------|--|--|
| Job | Truss | Truss Type | Qty | Ply | Lot 176 HT | AS NOTED FOR PLAN REVIEW |
| 000 | 11035 | | Giy | l' 'y | | DEVELOPMENT SERVICES 159955126 |
| B240005 | J28 | Jack-Closed | 1 | 1 | Job Reference (optional | |
| Wheeler Lumber, Waverly, KS | - 66871, | Run: 8.71 S Jul 27 2 ID:Ej7EWovY_94Pzt | 023 Print: 8. 7UVy1gWAz | 710 S Jul 27 _t70-RfC?Ps | 2023 MiTek Industries, Inc. Fri B70Hq3NSgPqnL8w3uITXbGI | Aug 04 (8) 63 / 13/2924 WrCDoily42501 |



2x4 II

1-10-0

| Scale = 1:20.8 | |
|-----------------------|-----------------|
| Plate Offsets (X, Y): | [4:0-5-6,0-1-8] |

. . . .

| 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 | тс | 0.10 | Vert(LL) | 0.00 | 3-4 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.06 | Vert(CT) | 0.00 | 3-4 | >999 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-R | | Wind(LL) | 0.00 | 3-4 | >999 | 240 | Weight: 9 lb | FT = 10% |

3-0-0

| LUMBER | | |
|-----------|------------|------------------------------------|
| TOP CHORD | 2x4 SPF I | No.2 |
| BOT CHORD | 2x4 SPF I | No.2 |
| WEBS | 2x4 SPF I | No.2 *Except* 2-3:2x3 SPF No.2 |
| BRACING | | |
| TOP CHORD | Structura | wood sheathing directly applied or |
| | 3-0-0 oc ı | ourlins, except end verticals. |
| BOT CHORD | | ing directly applied or 10-0-0 oc |
| | bracing. | |
| REACTIONS | (size) | 3= Mechanical, 4=0-3-8 |
| | Max Horiz | 4=63 (LC 5) |
| | Max Uplift | 3=-28 (LC 8), 4=-19 (LC 4) |
| | Max Grav | 3=124 (LC 1), 4=124 (LC 1) |
| | | |

| FORCES | (lb) - Maximum Compression/Maximum Tension |
|-----------|--|
| TOP CHORD | 1-4=-102/39, 1-2=-58/11, 2-3=-91/40 |
| BOT CHORD | 3-4=-21/18 |

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 3) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections. 4)
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 5) 4 and 28 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 6) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

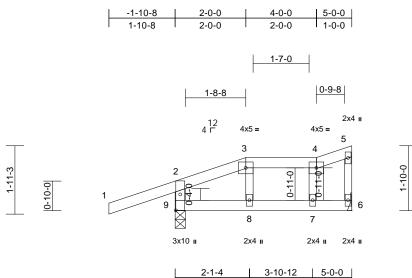
LOAD CASE(S) Standard



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| | | | | | | RELEASE FOR CONSTRUCTION |
|---------|-------|--------------------|-----|------|-------------------------|-----------------------------------|
| Job | Truss | Truss Type | Qty | Plv | Lot 176 HT | AS NOTED FOR PLAN REVIEW |
| 000 | 11035 | | Giy | i iy | | DEVELOPMENT SERVICES 159955127 |
| B240005 | J29 | Jack-Closed Girder | 1 | 1 | Job Reference (optional | LEFTS SUMMIT MISSOURI |
| | | | | | | 0011010001 |



Scale = 1:32.6

Plate Offsets (X, Y): [9:0-5-6,0-1-8]

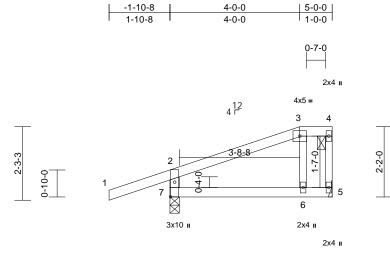
| | (X, T). [3.0-3-0,0-T-0] | | | | | | | | | | | | |
|--|---|---|---|--|---|--|---|--------------------------------------|---------------------------------|---------------------------------------|---------------------------------|---|------------------------------------|
| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 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 | 8/TPI2014 | CSI TC BC WB Matrix-R | 0.32 0.13 0.01 | DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL) | in -0.01 -0.02 0.00 0.01 | (loc) 7-8 7-8 6 7-8 | l/defl >999 >999 n/a >999 | L/d 360 240 n/a 240 | PLATES MT20 Weight: 17 lb | GRIP 197/144 FT = 10% |
| FORCES TOP CHORD BOT CHORD WEBS NOTES 1) Wind: ASC Vasd=91m II; Exp C; I cantilever right expos 2) Provide ac 3) This truss chord live 4) * This trus on the bot 3-06-00 ta chord and 5) Refer to gi 6) Provide m bearing pla | 2x4 SPF No.2 2x3 SPF No.2 *Exce Structural wood she 5-0-0 oc purlins, ex 2-0-0 oc purlins: 3-4 Rigid ceiling directly bracing. (size) 6= Mecha Max Horiz 9=78 (LC Max Uplift 6=-52 (LC Max Grav 6=170 (LC (lb) - Maximum Com Tension 2-9=-301/156, 1-2=(3-4=-67/27, 4-5=-57) | athing directly applie cept end verticals, ar applied or 6-0-0 oc unical, 9=0-3-8 5) c 8), 9=-166 (LC 4) C 1), 9=364 (LC 1) pression/Maximum)/45, 2-3=-112/30, /28, 5-6=-83/34 /55, 6-7=-33/55 /55 (3-second gust) DL=6.0psf; h=25ft; C twelope) exterior zonr ; end vertical left anc 0 plate grip DOL=1.6 event water ponding. r a 10.0 psf bottom th any other live load or a live load of 20.0] where a rectangle fit between the bottom ss connections. (by others) of truss to | d or 9) 10 10 LC 1) Sat. e; i 00 Is. psf m | International R802.10.2 as Graphical pu or the orienta bottom chorc Hanger(s) or provided suff down and 12 down and 60 design/selec responsibility In the LOAD of the truss a DAD CASE(S) Dead + Roc Plate Increa Uniform Lo: Vert: 1-2 | other connection ficient to support of 6 lb up at 2-0-0 of 0 lb up at 2-0-0 of 10 bup at 2-0-0 or 10 of others. CASE(S) section are noted as front Standard of Live (balanced) ase=1.15 ads (lb/ft) =-70, 2-3=-70, 3-4 ed Loads (lb) | e sections ndard AN n does n along the device(s concentra on top ch n bottom ection de , loads a (F) or ba | R502.11.1 a ISI/TPI 1. of depict the set top and/or s) shall be ated load(s) 5 ord, and 29 ll chord. The polied to the ck (B). | size 59 lb b face 15, | | | R | STATE OF J STATE OF J SCOT SEV NUM PE-2001 | L ENGINE |
| | | | | | | | | | | | | ^ | 170000 |

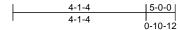




| | | | | | | RELEASE FOR CONSTRUCTION |
|--------------------------|----------|-------------|-----------------------------|-------------|----------------------------------|---|
| Job | Truss | Truss Type | Qty | Ply | Lot 176 HT | AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 159955128 |
| B240005 | J30 | Jack-Closed | 1 | 1 | Job Reference (optional | |
| Wheeler Lumber Weyerly k | (8 66971 | Bun | 8 71 6 Jul 27 2022 Drint: 8 | 710 8 101 2 | 7 2022 MiTek Industrias Inc. Fri | |

ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3uITXbGrWrCDoi7942599133/2024





Scale = 1:35.5

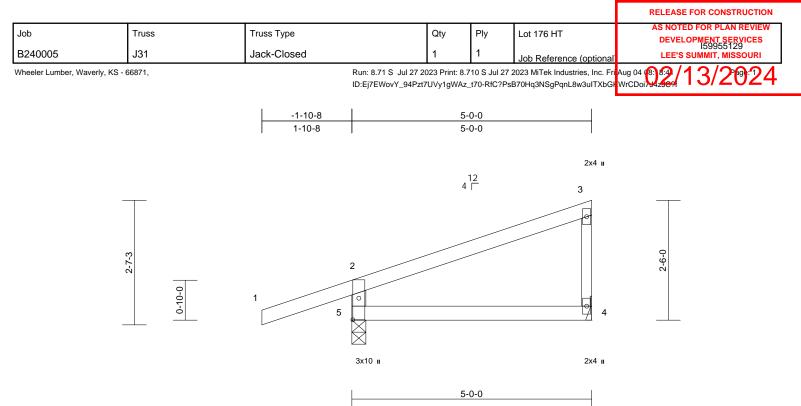
Plate Offsets (X, Y): [7:0-5-6,0-1-8]

| | x, i). [i.o o o,o i o] | | | | | | | | | | | |
|---|--|--|--|---|--|--|--------------------------------------|---------------------------------|---------------------------------------|---------------------------------|---------------------------------|------------------------------------|
| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 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-R | 0.28 0.14 0.02 | DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL) | in -0.01 -0.03 0.00 0.01 | (loc) 6-7 6-7 5 6-7 | l/defl >999 >999 n/a >999 | L/d 360 240 n/a 240 | PLATES MT20 Weight: 17 lb | GRIP 197/144 FT = 10% |
| | Max Horiz 7=95 (LC Max Uplift 5=-32 (LC Max Grav 5=184 (LC (lb) - Maximum Com | athing directly applie cept end verticals, a applied or 10-0-0 or anical, 7=0-3-8 7) 5 5), 7=-137 (LC 4) C 1), 7=385 (LC 1) | Internati R802.10 2 8) Graphic or the or bottom of nd LOAD CASI | s is designed in acc onal Residential Coo 2 and referenced st al purlin representati ientation of the purli hord. E(S) Standard | de sections tandard AN ion does no | R502.11.1 a ISI/TPI 1. ot depict the | | | | | | |
| TOP CHORD BOT CHORD WEBS NOTES | Tension 2-7=-326/156, 1-2=(3-4=-46/25, 4-5=-71 6-7=-26/42, 5-6=-23 3-6=-76/62 | /7 /38 | | | | | | | | | | |
| Vasd=91m II; Exp C; I cantilever right expos 2) Provide ac 3) This truss chord live 4) * This truss on the bott 3-06-00 ta chord and 5) Refer to gi 6) Provide m bearing pla | CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed sed; Lumber DOL=1.6 dequate drainage to pr has been designed fo load nonconcurrent wi s has been designed f tom chord in all areas II by 2-00-00 wide will any other members. irder(s) for truss to trus echanical connection 4 echapical of withstar b uplift at joint 5. | DL=6.0psf; h=25ft; (nvelope) exterior zor ; end vertical left an 0 plate grip DOL=1. event water ponding ra 10.0 psf bottom ith any other live load or a live load of 20.0 where a rectangle fit between the botto ss connections. (by others) of truss to | ne; d 60 9. ds. opsf om | | | | | | | | PE-2001 | ULENGI |

August 7,2023



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| Scale = 1:24 |
|--------------|
|--------------|

Plate Offsets (X, Y): [5:0-5-6,0-1-8]

| 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 | 0.28 | Vert(LL) | -0.02 | 4-5 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.17 | Vert(CT) | -0.04 | 4-5 | >999 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-R | | Wind(LL) | 0.01 | 4-5 | >999 | 240 | Weight: 16 lb | FT = 10% |

- LUMBER
- TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 2x4 SPF No.2 *Except* 3-4:2x3 SPF No.2 WEBS BRACING TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. REACTIONS (size) 4= Mechanical, 5=0-3-8 Max Horiz 5=107 (LC 5) Max Uplift 4=-40 (LC 8), 5=-134 (LC 4) Max Grav 4=184 (LC 1), 5=385 (LC 1)
- FORCES (lb) Maximum Compression/Maximum Tension TOP CHORD 2-5=-340/166, 1-2=0/45, 2-3=-101/17, 3-4=-134/62

BOT CHORD 4-5=-25/27

NOTES

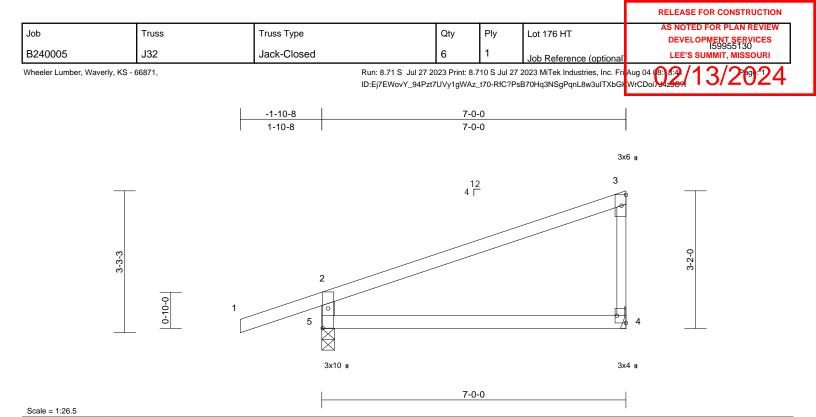
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 134 lb uplift at joint 5 and 40 lb uplift at joint 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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 **ANSUTPIT Quality Criteria, and DSE-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)





| Plate Offsets (X, Y): | [4:Edge.0-2-8]. | [5:0-5-6.0-1-8] |
|-----------------------|-----------------|-----------------|

| 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 | 0.58 | Vert(LL) | -0.08 | 4-5 | >985 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.38 | Vert(CT) | -0.17 | 4-5 | >472 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-R | | Wind(LL) | 0.03 | 4-5 | >999 | 240 | Weight: 21 lb | FT = 10% |

- LUMBER
- TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 2x4 SPF No.2 *Except* 3-4:2x3 SPF No.2 WEBS 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) 4= Mechanical, 5=0-3-8
- Max Horiz
 5=137 (LC 5)

 Max Uplift
 4=-62 (LC 8), 5=-144 (LC 4)

 Max Grav
 4=283 (LC 1), 5=466 (LC 1)

 FORCES
 (lb) Maximum Compression/Maximum Tension

 TOP CHORD
 2-5=-412/192, 1-2=0/45, 2-3=-149/14,
- 3-4=-202/92 BOT CHORD 4-5=-33/54

NOTES

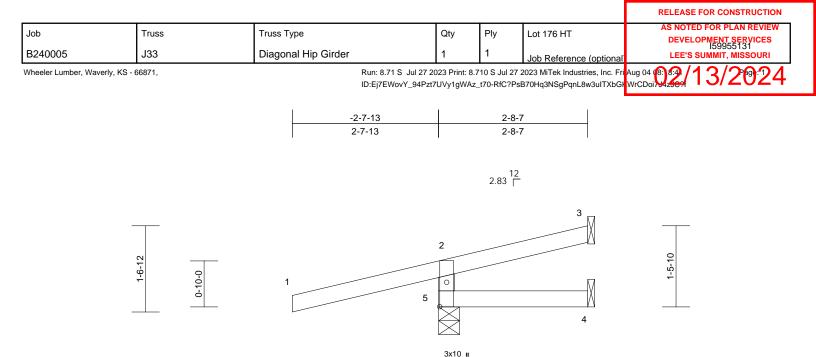
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 144 lb uplift at joint 5 and 62 lb uplift at joint 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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2-8-7

| Scale = | 1.20.0 |
|---------|--------|
| | |

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

| Plate Offsets | (X, Y): [5:0-5-5,0-1-8] | | | | | | | | | | | |
|--|---|--|--|--|---|---|--|---------------------------------|---------------------------------------|---------------------------------|--|--------------------------------------|
| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 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/TPI | CSI TC BC WB 2014 Mat | 0.61 0.21 | DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL) | in 0.01 0.01 -0.01 -0.01 | (loc) 4-5 4-5 3 4-5 | l/defl >999 >999 n/a >999 | L/d 360 240 n/a 240 | PLATES MT20 Weight: 10 lb | GRIP 197/144 FT = 10% |
| LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD BOT CHORD BOT CHORD NOTES 1) Wind: AS Vasd=91T II; Exp C; cantilever right expC 2) This truss chord live 3) * This truss on the boi 3-06-00 ta chord and 2) Provide m bearing pl | 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 Structural wood she 2-8-7 oc purlins, exx Rigid ceiling directly bracing. (size) $3=$ Mecha 5=0-4-9 Max Horiz $5=51$ (LC Max Uplift $3=-42$ (LC 5=-158 (L Max Grav $3=23$ (LC (LC 1) (lb) - Maximum Com Tension 2-5=-232/141, $1-2=-1$ | athing directly applie cept end verticals. applied or 10-0-0 oc unical, 4= Mechanica 7) (17), 4=-26 (LC 1), C 4) 4), 4=28 (LC 4), 5=2 (pression/Maximum 7/34, 2-3=-22/5 (3-second gust) DL=6.0psf; h=25ft; C ivelope) exterior zon ; end vertical left and 0 plate grip DOL=1.6 r a 10.0 psf bottom th any other live load or a live load of 20.0 where a rectangle fit between the botto ss connections. (by others) of truss to doing 158 lb uplift at | 6) Thi Inte R8(7) Hai pro dor dov 8) In t of t 1, LOAD (1) Dr PI Cd 276 Tr Cat. e; d 50 ds. psf | s truss is desig prnational Resi Jo2.10.2 and ref gger(s) or other vided sufficient vn and 16 lb up at -2-7-13 on t he connection d he LOAD CAS he truss are no CASE(S) Sta bad + Roof Live ate Increase=1 boncentrated Lo Vert: 1=-71 (Fr apezoidal Load Vert: 1=0 (F=3) | gned in accordance wi dential Code sections ferenced standard AN er connection device(s it to support concentra p at -2-7-13, and 46 II top chord. The design device(s) is the respor E(S) section, loads ap oted as front (F) or bar andard e (balanced): Lumber 1.15 pads (Ib) f=-36, B=-36) ds (Ib/ft) 35, B=35)-to-2=-49 (F -to-3=-49 (F=10, B=10) | ith the 2018 R502.11.1 a ISI/TPI 1.) shall be ted load(s) 4 b down and 2 h/selection of nsibility of oth oplied to the 1 ck (B). Increase=1. | and 16 lb 16 lb face 15, 2=-5 | | | | STATE OF J STATE OF J SCOT SEV PE-2001 | MISSOLUTION T M. IER 018807 |
| | | | | | | | | | | | The | -+ 7 0000 |





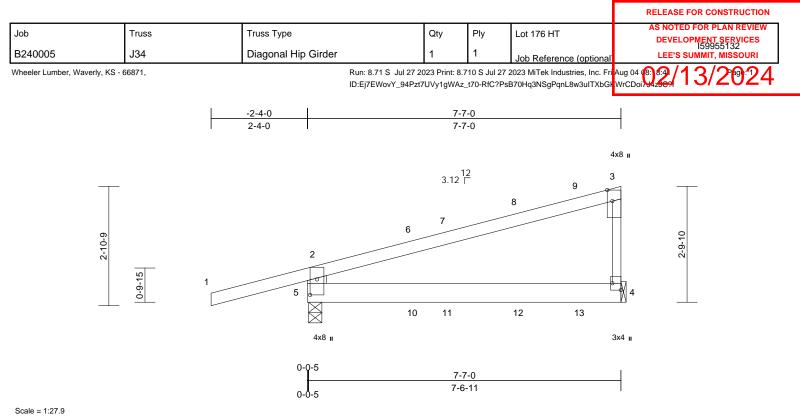


Plate Offsets (X, Y); [3:0-3-4.Edge], [4:Edge.0-2-8], [5:0-4-8.0-2-0]

| Loading TCLL (roof) TCDL | (psf) 25.0 10.0 | Spacing Plate Grip DOL Lumber DOL | 2-0-0 1.15 1.15 | | CSI TC BC | 0.81 0.29 | DEFL Vert(LL) Vert(CT) | in -0.04 -0.08 | (loc) 4-5 4-5 | l/defl >999 >999 | L/d 360 240 | PLATES MT20 | GRIP 197/144 |
|---|--|---|------------------------------|--|---|--|---|--|---------------------|------------------------|-------------------|----------------|-------------------------|
| BCLL BCDL | 0.0* 10.0 | Rep Stress Incr Code | NO IRC201 | 8/TPI2014 | WB Matrix-R | 0.00 | Horz(CT) Wind(LL) | 0.00 0.02 | 4 4-5 | n/a >999 | n/a 240 | Weight: 27 lb | FT = 10% |
| LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD FORCES TOP CHORD BOT CHORD | 2x6 SPF No.2 2x6 SPF No.2 *Exce Structural wood she 6-0-0 oc purlins, exx Rigid ceiling directly bracing. (size) 4= Mecha Max Horiz 5=115 (LC Max Uplift 4=-91 (LC Max Grav 4=380 (LC (Ib) - Maximum Com Tension 2-5=-501/250, 1-2=0 3-4=-261/131 | athing directly applie cept end verticals. applied or 10-0-0 or unical, 5=0-3-14 C 5) S 8), 5=-191 (LC 4) C 1), 5=553 (LC 1) ppression/Maximum | ed or c 8) | provided suf down and 3& 3-4-9, and 8 down and 71 down at 2-6 lb down at 2-6 lb down at 5 chord. The c (s) is the ress In the LOAD of the truss a DAD CASE(S) Dead + Roo Plate Increa Uniform Lo Vert: 1-2 Concentrat | of Live (balanced): ase=1.15 ads (lb/ft) =-70, 2-3=-70, 4-5 ed Loads (lb) 23 (F), 9=-52 (B), 7 | boncentra Ib dow b up at top ch 8 Ib up vn at 6 such co 5. Ioads a F) or ba Lumber =-20 | s) shall be ated load(s) 6 n and 29 lb uj 5-1-4, and 10 ord, and 4 lb at 3-4-9, and -6-15 on botto onnection dev pplied to the f ck (B). | p at 11 lb d 20 om vice face 15, | | | | | |
| NOTES | | (2 second suct) | | | | | | | | | | | |
| Vasd=91r II; Exp C; cantilever right expo 2) This truss chord live 3) * This trus on the bot | CE 7-16; Vult=115mph mph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed used; Lumber DOL=1.6 has been designed for load nonconcurrent wi ss has been designed f thom chord in all areas all by 2-00-00 wide will | DL=6.0psf; h=25ff; (velope) exterior zor ; end vertical left and 0 plate grip DOL=1.6 r a 10.0 psf bottom th any other live load or a live load of 20.0 where a rectangle | ie; d 60 ds. psf | | | | | | | | | STATE OF J | MISSOLIA T M. HER |

- chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 191 lb uplift at joint 5 and 91 lb uplift at joint 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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August 7,2023

E

NUMBER

PE-200101880

SSIONAL

| | | | | | | RELEASE FOR CONSTRUCTION |
|-------------------------|----------------|-------------------|-----|-----------------------|--|---|
| Job | Truss | Truss Type | Qty | Ply | Lot 176 HT | AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 159955133 |
| B240005 | J35 | Jack-Open | 10 | 1 | Job Reference (optional | |
| Wheeler Lumber, Waverly | /, KS - 66871, | | | | 27 2023 MiTek Industries, Inc. Fri PsB70Hq3NSgPqnL8w3uITXbG | |
| | | -1-10-8 1-10-8 | | <u>6-0-0</u> 6-0-0 | | 1 |
| _ | | | | 12 4 ┌ | 3 | |
| 6.15 6.15 | | 2 | | | | 2-10-0 |
| _ | 0-10-0 | 1 0 | | | 4 | |
| | | Зх10 и | | | | |
| Scale = 1:23.7 | | | | 6-0-0 | | { |

Plate Offsets (X, Y): [5:0-5-6,0-1-8]

| Plate Offsets (X, Y): [5:0-5-6,0-1-8] | | | | | | | | | |
|---|---|---|---|------------|------------------------|---|-------------------|--------------------------------------|------------------------------------|
| Loading (psf) TCLL (roof) 25.0 TCDL 10.0 BCLL 0.0* BCDL 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 YES IRC2018/TPI2014 | CSI TC 0.4 BC 0.3 WB 0.0 Matrix-R 0.0 | 1 Vert(CT) | -0.05 -0.11 0.03 | oc) l/defl 4-5 >999 4-5 >632 3 n/a 4-5 >999 | 360 240 n/a | PLATES MT20 Weight: 17 lb | GRIP 197/144 FT = 10% |
| LUMBER TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2 WEBS 2x4 SPF No.2 BRACING TOP CHORD Structural wood shea 6-0-0 oc purlins, exx BOT CHORD Structural wood shea 6-0-0 oc purlins, exx BOT CHORD Size 3= Mecha 5=0-3-8 Max Horiz 5=106 (LC Max Grav 3=173 (LC (LC 1) | cept end verticals. applied or 10-0-0 oc nical, 4= Mechanica 2 4) 5 8), 5=-127 (LC 4) | 2 I, | Standard | | | | | | |
| FORCES (Ib) - Maximum Com Tension TOP CHORD 2-5=-374/174, 1-2=0 BOT CHORD 4-5=0/0 NOTES 1) Wind: ASCE 7-16; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCI II; Exp C; Enclosed; MWFRS (en cantilever left and right exposed right exposed; Lumber DOL=1.60 2) This truss has been designed for chord live load nonconcurrent wit 3) * This truss has been designed for on the bottom chord in all areas v 3-06-00 tall by 2-00-00 wide will f chord and any other members. 4) Refer to girder(s) for truss to trus 5) Provide mechanical connection (i bearing plate capable of withstan 5 and 82 lb uplift at joint 3. 6) This truss is designed in accorda International Residential Code se R802.10.2 and referenced standa | (3-second gust) DL=6.0psf; h=25ft; C velope) exterior zon ; end vertical left and D plate grip DDL=1.6 a 10.0 psf bottom th any other live load or a live load of 20.0 where a rectangle fit between the botto ss connections. by others) of truss to ding 127 lb uplift at ance with the 2018 ections R502.11.1 ar | ie; d 30 ds. psf m 0 joint | | | | | | STATE OF I SCOT SEV PE-2001 | ER t |
| | | | | | | | | Augu | st 7,2023 |

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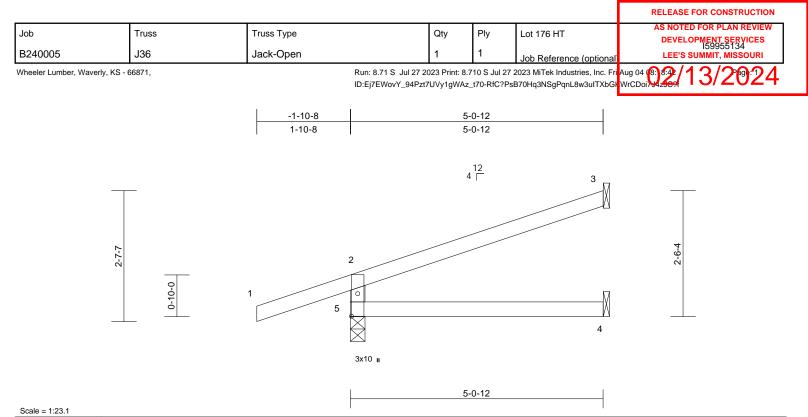


Plate Offsets (X, Y): [5:0-5-6,0-1-8]

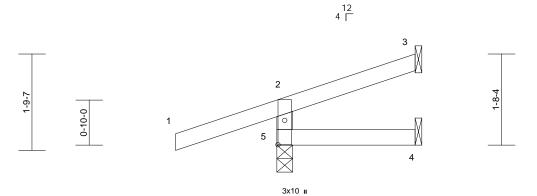
| Plate Offsets (| X, Y): [5:0-5-6,0-1-8] | | | | | | | | | | | |
|--|---|--|---|----------|----------------------|--|--------------------------------------|---------------------------------|---------------------------------------|---------------------------------|---------------------------------|------------------------------------|
| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 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 | BC (| 0.30 0.20 0.00 | DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL) | in -0.03 -0.05 0.02 0.02 | (loc) 4-5 4-5 3 4-5 | l/defl >999 >999 n/a >999 | L/d 360 240 n/a 240 | PLATES MT20 Weight: 15 lb | GRIP 197/144 FT = 10% |
| | 2x4 SPF No.2 2x4 SPF No.2 Structural wood she 5-0-12 oc purlins, e Rigid ceiling directly bracing. | y applied or 10-0-0 of anical, 4= Mechanica 4) C 8), 5=-124 (LC 4) | 2 I, | Standard | | | | | | | | |
| FORCES TOP CHORD BOT CHORD | (lb) - Maximum Com (lb) - Maximum Com Tension 2-5=-341/162, 1-2=0 4-5=0/0 | npression/Maximum | -563 | | | | | | | | | |
| NOTES 1) Wind: ASC Vasd=91m II; Exp C; I cantilever right expor 2) This truss chord live 3) * This trus on the bot 3-06-00 ta chord and 4) Refer to gi 5) Provide m bearing pl 5 and 68 ll 6) This truss Internation | CE 7-16; Vult=115mph hph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed sed; Lumber DOL=1.6 has been designed fo load nonconcurrent wi s has been designed fo tom chord in all areas I by 2-00-00 wide will any other members. irder(s) for truss to tru echanical connection i ate capable of withstat b uplift at joint 3. is designed in accorda hal Residential Code s | EDL=6.0psf; h=25ft; C nvelope) exterior zor ; end vertical left ani i0 plate grip DOL=1.6 r a 10.0 psf bottom ith any other live load for a live load of 20.0 where a rectangle fit between the botto iss connections. (by others) of truss to nding 124 lb uplift at ance with the 2018 ections R502.11.1 ai | ie; d 50 ds. ipsf om o joint | | | | | | | | SCOT SEVI NUM PE-2001 | LENGIES |

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| | | | | | | RELEASE FOR CONSTRUCTION |
|-----------------------------|----------------------|------------|-----|------|-------------------------|-----------------------------------|
| Job | Truss | Truss Type | Qty | Plv | Lot 176 HT | AS NOTED FOR PLAN REVIEW |
| 305 | 11035 | Truss Type | | i iy | | DEVELOPMENT SERVICES 159955135 |
| B240005 | J37 | Jack-Open | 2 | 1 | Job Reference (optional | |
| Wheeler Lumber, Waverly, KS | Aug 04 18 59/13/2024 | | | | | |





| Plate Offsets (X, Y): [5:0-5-6,0-1-8] | |
|---------------------------------------|--|
| Scale = 1:21.3 | |
| 2-6-12 | |

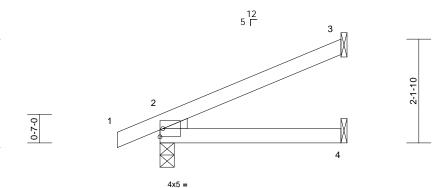
| Loading (psf) TCLL (roof) 25.0 TCDL 10.0 BCLL 0.0* BCDL 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 YES IRC2018/TPI2014 | CSI TC BC WB Matrix-R | 0.28 0.07 0.00 | DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL) | in 0.00 0.00 0.00 0.00 | (loc) 4-5 4-5 3 4-5 | l/defl >999 >999 n/a >999 | L/d 360 240 n/a 240 | PLATES MT20 Weight: 9 lb | GRIP 197/144 FT = 10% |
|--|---|---|--|----------------------|--|------------------------------------|---------------------------------|---------------------------------------|---------------------------------|--|------------------------------------|
| LUMBER TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2 BRACING TOP CHORD Structural wood sher 2-6-12 oc purlins, ex BOT CHORD Rigid ceiling directly bracing. REACTIONS (size) 3= Mecha 5=0-3-8 Max Horiz 5=59 (LC Max Uplift 3=-26 (LC | athing directly applie xcept end verticals. applied or 10-0-0 oc nical, 4= Mechanica 4) - 8), 5=-126 (LC 4) | LOAD CASE(S) | | | WIND(LL) | 0.00 | +3 | 2000 | 240 | Weight. 3 ib | 11 - 1078 |
| Max Grav 3=39 (LC (LC 1) FORCES (lb) - Maximum Com Tension TOP CHORD 2-5=-267/137, 1-2=0 BOT CHORD 4-5=0/0 NOTES 1) Wind: ASCE 7-16; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCI II; Exp C; Enclosed; MWFRS (en cantilever left and right exposed right exposed; Lumber DOL=1.6(2) This truss has been designed for chord live load nonconcurrent wii 3) * This truss has been designed for on the bottom chord in all areas s 3-06-00 tall by 2-00-00 wide will chord and any other members. 4) Refer to girder(s) for truss to trus 5) Provide mechanical connection (bearing plate capable of withstar 5 and 26 lb uplift at joint 3. 6) This truss is designed in accorda International Residential Code se R802.10.2 and referenced stands | pression/Maximum /45, 2-3=-40/7 (3-second gust) DL=6.0psf; h=25ft; C ivelope) exterior zon ; end vertical left and 0 plate grip DOL=1.6 a 10.0 psf bottom th any other live load or a live load of 20.0 where a rectangle fit between the botto ss connections. by others) of truss to iding 126 lb uplift at ance with the 2018 actions R502.11.1 ar | Cat. le; d 30 ds. psf m 0 joint | | | | | | ę | l | STATE OF I SCOT SEV DE SOUT PE-2001 HSSTONA Augu | I M. IER 018807 E MOT |



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)

| | | | | | | RELEASE FOR CONSTRUCTION |
|-------------------------------|-------------------------|------------|-----|-----|-------------------------|---|
| Job | Truss | Truss Type | Qty | Ply | Lot 176 HT | |
| B240005 | J38 | Jack-Open | 1 | 1 | Job Reference (optional | DEVELOPMENT SERVICES 159955136 LEE'S SUMMIT, MISSOURI |
| Wheeler Lumber, Waverly, KS - | Aug 04 (8) 59 / 13/2924 | | | | | |





3-8-10

Scale - 1.23.7

2-2-12

| Scale = 1:23. | 7 | | | | | | | • | | | | |
|-----------------------------|-------------------------------|-----------------------|-----------------|----------|------|----------|-------|-------|--------|-------|---------------|----------|
| 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 | 0.19 | Vert(LL) | -0.01 | 2-4 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.12 | Vert(CT) | -0.02 | 2-4 | >999 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | Weight: 10 lb | FT = 10% |
| LUMBER | | | | | | | | | | | | |
| TOP CHORE | 2x4 SPF No.2 | | | | | | | | | | | |
| BOT CHORE | 2x4 SPF No.2 | | | | | | | | | | | |
| WEDGE | Left: 2x3 SPF No.2 | | | | | | | | | | | |
| BRACING | | | | | | | | | | | | |
| TOP CHORE | O Structural wood she | athing directly appli | ied or | | | | | | | | | |
| | 3-8-10 oc purlins. | | | | | | | | | | | |
| BOT CHORE | | applied or 10-0-0 c | C | | | | | | | | | |
| | bracing. | | | | | | | | | | | |
| REACTIONS | | 3= Mechanical, 4= | | | | | | | | | | |
| | Mechanic | | | | | | | | | | | |
| | Max Horiz 2=77 (LC | | | | | | | | | | | |
| | Max Uplift 2=-37 (LC | | 4 70 | | | | | | | | | |
| | Max Grav 2=240 (L0 (LC 3) | C 1), 3=113 (LC 1), | 4=70 | | | | | | | | | |
| FORCES | (Ib) - Maximum Corr | nroncion/Movimum | | | | | | | | | | |
| FURCES | (ib) - Maximum Con Tension | ipression/maximum | | | | | | | | | | |
| TOP CHORE | | 1 | | | | | | | | | | |
| BOT CHORE | , | | | | | | | | | | | |
| NOTES | 2 1-0/0 | | | | | | | | | | | |
| | SCE 7-16; Vult=115mph | (3-second quet) | | | | | | | | | | |
| | mph; TCDL=6.0psf; BC | | Cat | | | | | | | | | |
| | ; Enclosed; MWFRS (er | | | | | | | | | | | |
| | r left and right exposed | | | | | | | | | | | |
| | osed; Lumber DOL=1.6 | | | | | | | | | | San | and |
| 2) This trus | s has been designed fo | r a 10.0 psf bottom | | | | | | | | | OF. | MISC |
| | e load nonconcurrent w | | | | | | | | | | 450 | -00, W |
| | iss has been designed f | | 0psf | | | | | | | A | STATE OF | Ne V |
| | ottom chord in all areas | | | | | | | | | A | S/ SCOI | |
| | tall by 2-00-00 wide will | fit between the bott | om | | | | | | | И. | SEV | |
| | d any other members. | ing connections | | | | | | | | ИY | | |
| | girder(s) for truss to tru | | to | | | | | | | 8 | O del | |
| Provide r | mechanical connection | (by others) or truss | 10 | | | | | | | - K - | | |

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 66 lb uplift at joint 3 and 37 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 6) 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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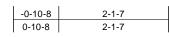
| | | | | | | RELEASE FOR CONSTRUCTION |
|---------|-------|------------|-----|-----|--------------------------|-----------------------------------|
| Job | Truss | Truss Type | Qty | Plv | Lot 176 HT | AS NOTED FOR PLAN REVIEW |
| | | | | l. | | DEVELOPMENT SERVICES 159955137 |
| B240005 | J39 | Jack-Open | 1 | 1 | Job Reference (optional) | |
| | | | | | | 00/10/0001 |

2

4x5 =

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.71 S Jul 27 2023 Print: 8.710 S Jul 27 2023 MiTek Industries, Inc. Fri Aug 04 (8) 63/1 3/2 2 2 2 1 D:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3ulTXbGr WrCDoi 34264





3

4

1



1-6-12

0-2-0

| | | | | | | | | | | _ | |
|-------|-----------------|-----------------|----------|------|----------|------|-------|--------|-----|--------------|----------|
| (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
| 25.0 | Plate Grip DOL | 1.15 | тс | 0.06 | Vert(LL) | 0.00 | 2-4 | >999 | 360 | MT20 | 197/144 |
| 10.0 | Lumber DOL | 1.15 | BC | 0.03 | Vert(CT) | 0.00 | 2-4 | >999 | 240 | | |
| 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| 10.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | Weight: 7 lb | FT = 10% |

2-1-7

Scale = 1:22.3 Loading TCLL (roof) TCDI BCLL BCDL

| LUMBER | | | | | | | | |
|-----------|------------|---|--|--|--|--|--|--|
| TOP CHORD | 2x4 SPF I | No.2 | | | | | | |
| BOT CHORD | 2x4 SPF I | No.2 | | | | | | |
| WEDGE | Left: 2x3 | SPF No.2 | | | | | | |
| BRACING | | | | | | | | |
| TOP CHORD | | Structural wood sheathing directly applied or 2-1-7 oc purlins. | | | | | | |
| BOT CHORD | | ing directly applied or 10-0-0 oc | | | | | | |
| REACTIONS | (size) | 2=0-3-8, 3= Mechanical, 4= Mechanical | | | | | | |
| | Max Horiz | 2=49 (LC 8) | | | | | | |
| | Max Uplift | 2=-35 (LC 4), 3=-35 (LC 8) | | | | | | |

Max Grav 2=177 (LC 1), 3=48 (LC 1), 4=38 (LC 3) FORCES (Ib) - Maximum Compression/Maximum

Tension TOP CHORD 1-2=0/6, 2-3=-47/18 2-4=0/0

BOT CHORD

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf
- 3) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections. 4)
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 3 and 35 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 6) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

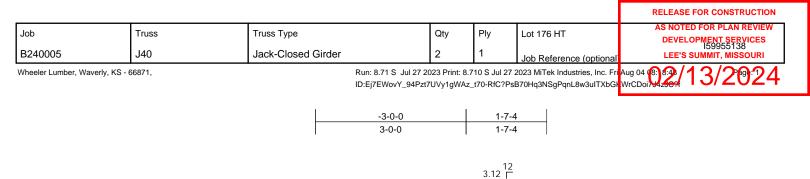
LOAD CASE(S) Standard



August 7,2023

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 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not 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)

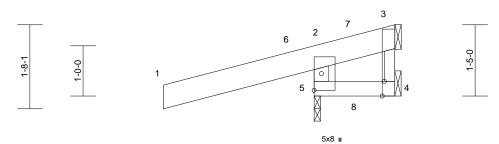






1-7-4





Scale = 1:22.9

Plate Offsets (X, Y): [3:0-3-8,Edge]

| TC | | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|--|---------------------------------------|-----------|-----------|-----------|---------------|-----------|
| | 0.74 Vert(LL | 0.00 | 4-5 | >999 | 360 | MT20 | 197/144 |
| BC | 0.07 Vert(C |) 0.00 | 4-5 | >999 | 240 | MT18HS | 197/144 |
| WB | 0.00 Horz(C | Г) 0.00 | 4 | n/a | n/a | | |
| I2014 Matrix-R | Wind(L | .) 0.00 | 5 | >999 | 240 | Weight: 11 lb | FT = 10% |
| is truss is designed in accorda ernational Residential Code se 802.10.2 and referenced standa ad case(s) 21 has/have been r signer must review loads to ve the intended use of this truss. the LOAD CASE(S) section, lo the truss are noted as front (F) CASE(S) Standard Except: lser defined (1): Lumber Increa ncrease=1.15 Iniform Loads (Ib)/ft) Vert: 1-6=-70 (F), 2-6=-20 (F) (F) concentrated Loads (Ib) Vert: 1=-250 | ections R502.1 and ANSI/TPI 1 modified. Build rify that they a ads applied to or back (B). ase=1.15, Plate | .1 and ng e correct the face | | | | | |
| Ver | t: 1=-250 | t: 1=-250 | t: 1=-250 | t: 1=-250 | t: 1=-250 | t: 1=-250 | t: 1=-250 |

- II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) All plates are MT20 plates unless otherwise indicated. 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections. 5)
- Provide mechanical connection (by others) of truss to 6) bearing plate at joint(s) 5.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 294 lb uplift at joint 5 and 816 lb uplift at joint 4.

OF MISS SCOTT M. SEVIER NUMBER PE-200101880' SSIONAL E August 7,2023



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| | | | | | | RELEASE FOR CONSTRUCTION |
|---------|-------|------------|-----|------|-------------------------|-----------------------------------|
| Job | Truss | Truss Type | Qty | Plv | Lot 176 HT | AS NOTED FOR PLAN REVIEW |
| 500 | 11035 | Truss Type | Qiy | i iy | | DEVELOPMENT SERVICES 159955139 |
| B240005 | J41 | Jack-Open | 2 | 1 | Job Reference (optional | |
| | | | | | | 00/10/00/1 |

Run: 8.71 S Jul 27 2023 Print: 8.710 S Jul 27 2023 MiTek Industries, Inc. Fridaug 04 (6) 63/11 3/20 24 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3uITXb6I WrCDoi742001





1-10-4

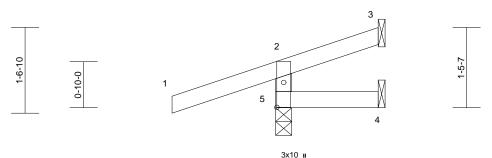
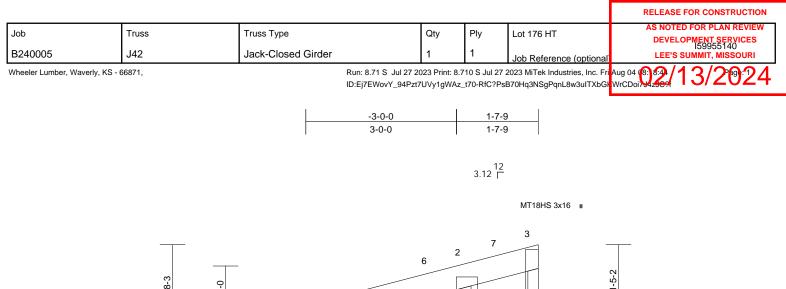


Plate Offsets (X, Y): [5:0-5-6,0-1-8]

| 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 | тс | 0.28 | Vert(LL) | 0.00 | 4-5 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.08 | Vert(CT) | 0.00 | 4-5 | >999 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-R | | Wind(LL) | 0.00 | 4-5 | >999 | 240 | Weight: 7 lb | FT = 10% |
| LUMBER | | | 6) This truss is | designed in accorda | ance w | ith the 2018 | | | | | | |
| TOP CHORD | 2x4 SPF No.2 | | International | Residential Code s | ections | R502.11.1 a | nd | | | | | |
| BOT CHORD | 2x4 SPF No.2 | | R802.10.2 a | nd referenced stand | lard AN | ISI/TPI 1. | | | | | | |
| WEBS | 2x4 SPF No.2 | | LOAD CASE(S) | Standard | | | | | | | | |
| BRACING | | | | | | | | | | | | |
| TOP CHORD | | | d or | | | | | | | | | |
| | 1-10-4 oc purlins, e | | | | | | | | | | | |
| BOT CHORD | Rigid ceiling directly bracing. | applied or 10-0-0 oc | 3 | | | | | | | | | |
| REACTIONS | (size) 3= Mecha | nical, 4= Mechanica | l, | | | | | | | | | |
| | 5=0-3-8 | | | | | | | | | | | |
| | Max Horiz 5=50 (LC | , | | | | | | | | | | |
| | Max Uplift 3=-11 (LC | \$ 8), 4=-8 (LC 1), 5=- | 135 | | | | | | | | | |
| | (LC 4) | | 20 | | | | | | | | | |
| | Max Grav 3=4 (LC 4 (LC 1) | e), 4=24 (LC 3), 5=30 | 12 | | | | | | | | | |
| FORCES | (lb) - Maximum Com | pression/Maximum | | | | | | | | | | |
| | Tension | | | | | | | | | | | |
| TOP CHORD | , |)/45, 2-3=-37/1 | | | | | | | | | | |
| BOT CHORD | 4-5=0/0 | | | | | | | | | | | |
| NOTES | | | | | | | | | | | | |
| | CE 7-16; Vult=115mph | | | | | | | | | | | |
| | nph; TCDL=6.0psf; BC | | | | | | | | | | - COLO | ann |
| | Enclosed; MWFRS (er left and right exposed | | | | | | | | | | ATE OF J | MISCO |
| | sed; Lumber DOL=1.6 | | | | | | | | | 1 | 4 SE | |
| | has been designed for | | | | | | | | | A | NY agor | New |
| | load nonconcurrent wi | | ds. | | | | | | | 4 | SCOT | |
| | s has been designed f | | | | | | | | | H. | SEV | |
| | tom chord in all areas | | | | | | | | | 1 🛪 | 9 | 1*1 |
| | Il by 2-00-00 wide will | fit between the botto | m | | | | | | | B 0 | 1 He | · P . |
| | any other members. | | | | | | | | | * | COMM | Mar . |
| | irder(s) for truss to tru echanical connection (| | | | | | | | | 127 | O PE-2001 | 018807 |
| | ate capable of withstar | | | | | | | | | N | The second | 12H |
| | ift at joint 4 and 11 lb u | | Jourt | | | | | | | X | 1080 | C'H |
| 0, 0 10 upi | | | | | | | | | | | SSIONA | LEFA |
| | | | | | | | | | | | CONA | THE |

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5 8

Scale = 1:23

F

1-8-3

Structural wood sheathing directly applied or

4= Mechanical, 5=0-3-8

2-3-10 oc purlins, except end verticals.

Rigid ceiling directly applied or 6-0-0 oc

Max Uplift 4=-795 (LC 21), 5=-291 (LC 4)

Max Grav 4=135 (LC 4), 5=1296 (LC 21)

| 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 | 0.73 | Vert(LL) | 0.00 | 4-5 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.12 | Vert(CT) | 0.00 | 4-5 | >999 | 240 | MT18HS | 197/144 |
| BCLL | 0.0* | Rep Stress Incr | NO | WB | 0.00 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-R | | Wind(LL) | 0.00 | 5 | >999 | 240 | Weight: 12 lb | FT = 10% |

5x8 II

1-7-9

of the truss are noted as front (F) or back (B).

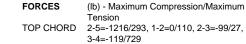
LOAD CASE(S) Standard Except:

- 21) User defined (1): Lumber Increase=1.15, Plate
 - Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-6=-70 (F), 2-6=-20 (F), 2-7=-70 (F), 5-8=-20

- (F)
- Concentrated Loads (lb) Vert: 1=-250



bracing.

Max Horiz 5=70 (LC 7)

(size)

BOT CHORD 4-5=-101/25

NOTES

BRACING

TOP CHORD

BOT CHORD

REACTIONS

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated. 2)
- This truss has been designed for a 10.0 psf bottom 3) chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections. 5)
- Provide mechanical connection (by others) of truss to 6) bearing plate capable of withstanding 291 lb uplift at joint 5 and 795 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 7) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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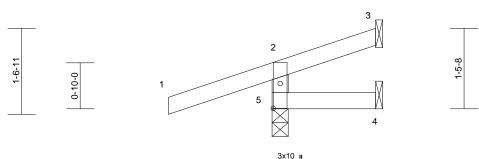
| | 00/10/0001 | | | | | |
|---------|------------|-------------|-----|-----|-------------------------|-----------------------------------|
| B240005 | J43 | Jack-Open | 1 | 1 | Job Reference (optional | |
| Job | Truss | Truss Type | Qty | Ply | Lot 176 HT | DEVELOPMENT SERVICES 159955141 |
| leb | Truco | Truce Tures | 0.5 | Plv | | AS NOTED FOR PLAN REVIEW |
| | | | | | | RELEASE FOR CONSTRUCTION |

Run: 8.71 S Jul 27 2023 Print: 8.710 S Jul 27 2023 MiTek Industries, Inc. Fri Aug 04 (8) 52/1 3/2 9:24 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3uITXbGi WrCDoi 142594

| -1-10-8 | 1-10-8 |
|---------|--------|
| 1-10-8 | 1-10-8 |



1-10-8



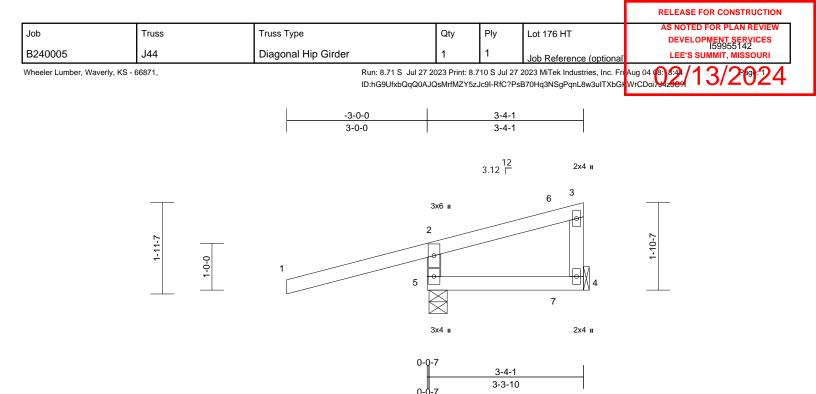
| Scale = 1:2 | 0.9 |
|-------------|-----|
|-------------|-----|

Plate Offsets (X, Y): [5:0-5-6,0-1-8]

| | | | | - | | | | | | | | |
|----------------|---|------------------------|-----------------|---------------------|---------|-----------|------|-------|--------|------------|--------------|------------|
| 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 | 0.28 | Vert(LL) | 0.00 | 4-5 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.08 | Vert(CT) | 0.00 | 4-5 | >999 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-R | | Wind(LL) | 0.00 | 4-5 | >999 | 240 | Weight: 7 lb | FT = 10% |
| - | | | | | | | | | | | ů. | |
| LUMBER | | | | designed in accorda | | | | | | | | |
| TOP CHORD | 2x4 SPF No.2 | | | Residential Code s | | | nd | | | | | |
| BOT CHORD | 2x4 SPF No.2 | | | nd referenced stand | lard AN | ISI/TPL1. | | | | | | |
| WEBS | 2x4 SPF No.2 | | LOAD CASE(S) | Standard | | | | | | | | |
| BRACING | | | | | | | | | | | | |
| TOP CHORD | Structural wood she | | d or | | | | | | | | | |
| | 1-10-8 oc purlins, e | | | | | | | | | | | |
| BOT CHORD | Rigid ceiling directly | applied or 10-0-0 oc | | | | | | | | | | |
| | bracing. | | | | | | | | | | | |
| REACTIONS | () | nical, 4= Mechanica | l, | | | | | | | | | |
| | 5=0-3-8 | | | | | | | | | | | |
| | Max Horiz 5=50 (LC | , | | | | | | | | | | |
| | Max Uplift 3=-12 (LC | 5 8), 4=-8 (LC 1), 5=- | 135 | | | | | | | | | |
| | (LC 4) | a) 4 ac (1 a a) c a | ~~ | | | | | | | | | |
| | Max Grav 3=4 (LC 1 | 9), 4=25 (LC 3), 5=3 | 02 | | | | | | | | | |
| | (LC 1) | | | | | | | | | | | |
| FORCES | (lb) - Maximum Com | pression/iviaximum | | | | | | | | | | |
| TOP CHORD | Tension 2-5=-260/138, 1-2=0 | VAE 0.0 07/4 | | | | | | | | | | |
| BOT CHORD | 4-5=0/0 | //45, 2-5=-57/1 | | | | | | | | | | |
| | 4-5=0/0 | | | | | | | | | | | |
| NOTES | | (a. 1) | | | | | | | | | | |
| | CE 7-16; Vult=115mph | | | | | | | | | | | |
| | nph; TCDL=6.0psf; BC | | | | | | | | | | 2000 | an |
| | Enclosed; MWFRS (er left and right exposed | | | | | | | | | | TE OF M | Ican |
| | sed; Lumber DOL=1.6 | | | | | | | | | | BIE | 0.0 |
| | has been designed for | | 10 | | | | | | | 6 | 144 | 1 CAN |
| | load nonconcurrent wi | | le | | | | | | | B | SCOTT | |
| | s has been designed f | | | | | | | | | R | / SEVIE | RVY |
| | tom chord in all areas | | | | | | | | | 2 * | | |
| | II by 2-00-00 wide will | | m | | | | | | | <u>N</u> . | TT5 | |
| chord and | any other members. | | | | | | | | 1 | <u>K</u> | | Seven |
| 4) Refer to gi | rder(s) for truss to tru | ss connections. | | | | | | | | R7 | PE-200101 | |
| | echanical connection (| | | | | | | | | N. | O PE-200101 | 1880/ 1814 |
| | ate capable of withstar | | oint | | | | | | | V | 1 Bal | 154 |
| 5, 8 lb upli | ft at joint 4 and 12 lb u | plift at joint 3. | | | | | | | | | CSSIONAL | ENA |
| | | | | | | | | | | | WAL | A |
| | | | | | | | | | | | CONAL | 5 |

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)





| 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 | 0.82 | Vert(LL) | 0.00 | 4-5 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.12 | Vert(CT) | -0.01 | 4-5 | >999 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | NO | WB | 0.00 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-R | | Wind(LL) | 0.00 | 4-5 | >999 | 240 | Weight: 13 lb | FT = 20% |

| BOT CHORD | 2x4 SPF N | No.2 |
|-----------|-------------|------------------------------------|
| WEBS | 2x4 SPF N | No.2 |
| BRACING | | |
| TOP CHORD | | wood sheathing directly applied or |
| | 3-4-1 oc p | ourlins, except end verticals. |
| BOT CHORD | Rigid ceili | ng directly applied or 6-0-0 oc |
| | bracing. | |
| REACTIONS | (size) | 4= Mechanical, 5=0-4-11 |
| | Max Horiz | 5=93 (LC 7) |

Max Uplift 4=-13 (LC 9), 5=-221 (LC 4) Max Grav 4=94 (LC 21), 5=470 (LC 1) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 2-5=-411/225, 1-2=0/55, 2-3=-41/45,

3-4=-48/27 BOT CHORD 4-5=-44/55

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom 2) chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to 5) bearing plate capable of withstanding 221 lb uplift at joint 5 and 13 lb uplift at joint 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

- down and 28 lb up at 2-8-7 on top chord, and 14 lb down and 8 lb up at 2-8-7 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face 8) of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft)
 - Vert: 1-2=-70, 2-3=-70, 4-5=-20 Concentrated Loads (lb)

Vert: 7=8 (F)



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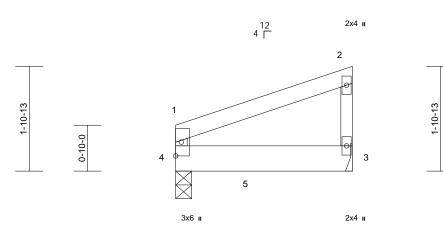


| | | | | | | RELEASE FOR CONSTRUCTION |
|-------------------------|---------------|--------------------|-------------------------|--------------|---------------------------------|-----------------------------------|
| Job | Truss | Truss Type | Qty | Plv | Lot 176 HT | AS NOTED FOR PLAN REVIEW |
| 305 | 11035 | Truss Type | Qty | I IY | | DEVELOPMENT SERVICES 159955143 |
| B240005 | J45 | Jack-Closed Girder | 1 | 1 | Job Reference (optional | |
| Wheeler Lumber, Waverly | , KS - 66871, | Run: 8.71 | S Jul 27 2023 Print: 8. | 710 S Jul 27 | 2023 MiTek Industries, Inc. Fri | |

3-2-8

3-2-8

Run: 8.71 S Jul 27 2023 Print: 8.710 S Jul 27 2023 MiTek Industries, Inc. Fri Aug 04 (8: 6:34/1 3/2*69:10:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3uITXbGi WrCDoi794z569:1



Scale = 1:20.9

| 3cale = 1.20.9 | | | | | | | | | | | | |
|--|--|---|---|---|--|---|-----------|-------|--------|-----|---------------|----------|
| 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 | тс | 0.14 | Vert(LL) | -0.01 | 3-4 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.26 | Vert(CT) | -0.01 | 3-4 | >999 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | NO | WB | 0.00 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-R | | Wind(LL) | 0.00 | 3-4 | >999 | 240 | Weight: 11 lb | FT = 10% |
| l | 2x4 SPF No.2 2x6 SPF No.2 2x3 SPF No.2 Structural wood she 3-2-8 oc purlins, ex Rigid ceiling directly bracing. (size) 3= Mecha Max Horiz 4=63 (LC Max Uplift 3=-37 (LC Max Grav 3=270 (LC | cept end verticals. applied or 10-0-0 oc anical, 4=0-3-8 5) 5 8), 4=-31 (LC 4) | d or b COAD b COAD c CASE(S) b COAD CASE(S) c COAD | CASE(S) section are noted as front Standard of Live (balanced ase=1.15 ads (lb/ft) =-70, 3-4=-20 ed Loads (lb) | concentra 4 on botto nection de n, loads a t (F) or ba | ated load(s) 3 m chord. Th vice(s) is the oplied to the ck (B). | e face | | | | | |
| FORCES | (lb) - Maximum Com Tension | pression/Maximum | vent. 5= | | | | | | | | | |
| TOP CHORD BOT CHORD | 1-4=-112/43, 1-2=-7 3-4=-21/37 | 1/10, 2-3=-98/44 | | | | | | | | | | |
| Vasd=91m II; Exp C; E cantilever I right expos 2) This truss f chord live I 3) * This truss on the bott 3-06-00 tal chord and a | E 7-16; Vult=115mph ph; TCDL=6.0psf; BC Enclosed; MWFRS (er eft and right exposed sed; Lumber DOL=1.6 has been designed for oad nonconcurrent wi s has been designed f om chord in all areas I by 2-00-00 wide will any other members. | DL=6.0psf; h=25ft; C tvelope) exterior zon ; end vertical left and 0 plate grip DOL=1.6 r a 10.0 psf bottom th any other live load or a live load of 20.0 where a rectangle fit between the botto | e; 1 90 Is. psf | | | | | | | | STATE OF I | MISSOLR |

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 4 and 37 lb uplift at joint 3.

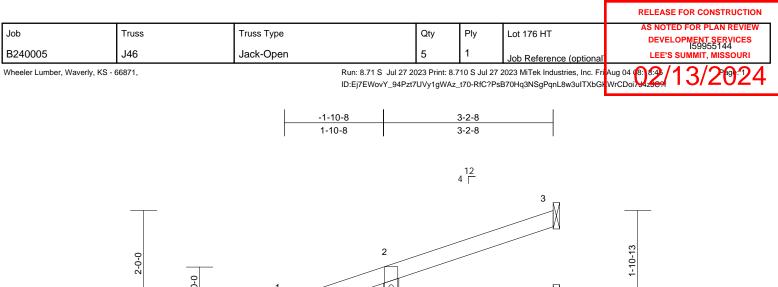
 This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

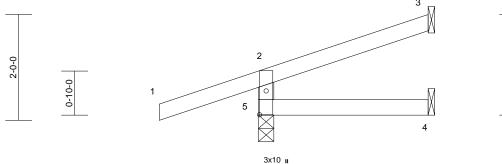
en the bottom ctions. (s) of truss to Ib uplift at joint



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| | 3-2-8 | |
|---------------------------------------|-------|--|
| | | |
| Scale = 1:21.8 | | |
| Plate Offsets (X, Y): [5:0-5-6,0-1-8] | | |

| Loading (psf) TCLL (roof) 25.0 TCDL 10.0 BCLL 0.0* BCDL 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 YES IRC2018/TPI2014 | CSI TC 0.2 BC 0.0 WB 0.0 Matrix-R 0.0 | 6 Vert(CT) | in 0.00 -0.01 0.00 0.00 | (loc) 4-5 4-5 3 4-5 | l/defl >999 >999 n/a >999 | L/d 360 240 n/a 240 | PLATES MT20 Weight: 10 lb | GRIP 197/144 FT = 10% |
|--|---|---|---|------------|-------------------------------------|---------------------------------|---------------------------------------|---------------------------------|---|------------------------------------|
| LUMBER TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 BRACING TOP CHORD Structural wood she 3-2-8 oc purlins, ex BOT CHORD Rigid ceiling directly bracing. REACTIONS (size) 3= Mecha 5=0-3-8 Max Horiz 5=49 (LC Max Uplift 3=-23 (LC Max Grav 3=69 (LC (LC 1) | athing directly applie cept end verticals. applied or 10-0-0 oc nnical, 4= Mechanica 4) 3 8), 5=-76 (LC 4) 1), 4=52 (LC 3), 5=3 | LOAD CASE(S) | | | | | | | rrogin. To is | |
| FORCES (Ib) - Maximum Com Tension TOP CHORD 2-5=-283/94, 1-2=0/ BOT CHORD 4-5=0/0 NOTES 1) Wind: ASCE 7-16; Vult=115mph Vasd=91mph; TCDL=6.0psf; BC II; Exp C; Enclosed; MWFRS (er and right exposed; end vertical Lumber DOL=1.60 plate grip DC 2) This truss has been designed fo chord live load nonconcurrent wi 3) * This truss has been designed fo on the bottom chord in all areas 3-06-00 tall by 2-00-00 wide will chord and any other members. 4) Refer to girder(s) for truss to tru 5) Provide mechanical connection of bearing plate capable of withstan 5 and 23 Ib uplift at joint 3. 6) This truss is designed in accorda International Residential Code s R802.10.2 and referenced stand | 45, 2-3=-45/15 (3-second gust) DL=6.0psf; h=25ft; C invelope); cantilever le left and right exposed DL=1.60 r a 10.0 psf bottom it any other live load or a live load of 20.0 where a rectangle fit between the botto ss connections. (by others) of truss to ading 76 lb uplift at jo ance with the 2018 ections R502.11.1 ar | eft d; ds. psf m o pint | | | | | , | R | STATE OF I SCOT SEVI NUM PE-2001 PE-2001 Augu | T M. ER DIS807 |

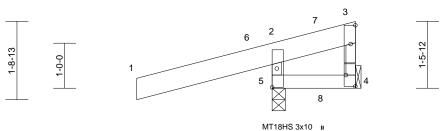
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16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com

| | | | | | | RELEASE FOR CONSTRUCTION |
|----------------------|-------------------|--------------------------|--|-----------------------------|--|---|
| Job | Truss | Truss Type | Qty | Ply | Lot 176 HT | AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 159955145 |
| B240005 | J47 | Jack-Closed Girder | 2 | 1 | Job Reference (optional | |
| Wheeler Lumber, Wave | erly, KS - 66871, | Run: 8.71 S ID:Ej7EWo | 5 Jul 27 2023 Print: 8 /Y_94Pzt7UVy1gWA | .710 S Jul 2 z_t70-RfC?F | 7 2023 MiTek Industries, Inc. Fri PsB70Hq3NSgPqnL8w3uITXbGi | Aug 04 (8) 53 / 13/2024 WrCDoi N4 2001 |
| | | -3-0- | n l | 1-10-2 | > | |







3x6 II

1-10-2

Scale = 1:25.6

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

| 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 | 0.72 | Vert(LL) | 0.00 | 4-5 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | | BC | 0.06 | Vert(CT) | 0.00 | 4-5 | >999 | 240 | MT18HS | 197/144 |
| BCLL | 0.0* | Rep Stress Incr | NO | | WB | 0.00 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018 | /TPI2014 | Matrix-R | | Wind(LL) | 0.00 | 4-5 | >999 | 240 | Weight: 12 lb | FT = 10% |
| UMBER | | | 8) | Load case(s |) 21 has/have bee | n modifie | ed. Buildina | | | | | | |
| TOP CHORD | 2x6 SPF 1650F 1.4E | = | 0) | | st review loads to | | | orrect | | | | | |
| BOT CHORD | 2x4 SPF No.2 | | | for the intend | ded use of this true | ss. | | | | | | | |
| WEBS | 2x3 SPF No.2 | | 9) | | CASE(S) section | | | face | | | | | |
| BRACING | | | | of the truss a | are noted as front | (F) or ba | ck (B). | | | | | | |
| TOP CHORD | Structural wood she | athing directly appli | 54 01 | • • • • | Standard Exce | | | | | | | | |
| | 2-6-3 oc purlins, ex | | 21) | | ed (1): Lumber Inc | rease=1. | 15, Plate | | | | | | |
| BOT CHORD | Rigid ceiling directly | applied or 6-0-0 oc | | Increase=1 | | | | | | | | | |
| | bracing. | | | Uniform Lo | () | (E) 0 7 | 70 (E) E 0 | 20 | | | | | |
| REACTIONS | . , | anical, 5=0-3-8 | | (F) | =-70 (F), 2-6=-20 | (F), 2-7= | -70 (F), 5-8≡ | -20 | | | | | |
| | Max Horiz 5=72 (LC | , | | . , | ed Loads (lb) | | | | | | | | |
| | Max Uplift 4=-650 (L | <i>,,</i> | , | Vert: 1=- | | | | | | | | | |
| | Max Grav 4=106 (L0 | ,, (|) | ronu r | 200 | | | | | | | | |
| FORCES | (lb) - Maximum Com | pression/Maximum | | | | | | | | | | | |
| TOP CHORD | Tension 2-5=-1131/275, 1-2= | 0/111 2 2 01/20 | | | | | | | | | | | |
| | 3-4=-97/623 | -0/111, 2-3=-94/20, | | | | | | | | | | | |
| BOT CHORD | 4-5=-83/19 | | | | | | | | | | | | |
| NOTES | | | | | | | | | | | | | |
| | CE 7-16; Vult=115mph | (3-second dust) | | | | | | | | | | | |
| | nph; TCDL=6.0psf; BC | | Cat. | | | | | | | | | | |
| II; Exp C; I | Enclosed; MWFRS (er | velope) exterior zoi | ne; | | | | | | | | | | |
| cantilever | left and right exposed | ; end vertical left an | d | | | | | | | | | | Th |
| | sed; Lumber DOL=1.6 | | | | | | | | | | | OFI | Might |
| | are MT20 plates unles | | d. | | | | | | | | | Fredri | USS SCH |
| , | has been designed fo | | | | | | | | | | 6 | THE OF I | NSY |
| | | | | | | | | | | | | | |

- chord live load nonconcurrent with any other live loads.
 This truss has been designed for a live load of 20.0psf 4) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections. 5)
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 265 lb uplift at joint 6) 5 and 650 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 7) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 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 oulgase 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)

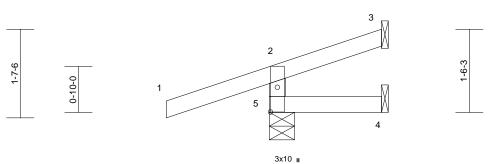
16023 Swingley Ridge Rd. Chesterfield MO 63017 314.434.1200 / MiTek-US.com

| | | | | | | RELEASE FOR CONSTRUCTION |
|-------------------------------|-------------------------|------------|-----|-----|-------------------------|---|
| Job | Truss | Truss Type | Qty | Ply | Lot 176 HT | AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 159955146 |
| B240005 | J48 | Jack-Open | 4 | 1 | Job Reference (optional | |
| Wheeler Lumber, Waverly, KS - | Aug 04 (8) 59 / 13/2924 | | | | | |

| -1-10-8 | 2-0-8 |
|---------|-------|
| 1-10-8 | 2-0-8 |



2-0-8



| Scale = 1 | 1:21 |
|-----------|------|
|-----------|------|

Plate Offsets (X, Y): [5:0-5-6,0-1-8]

| · · · · · · · · · · · · · · · · · · · | | | | - | | | | | | | | |
|---------------------------------------|--|------------------------|-----------------|--|------|----------|------|-------|--------|-----|--------------|----------|
| Loading | (psf) | Spacing | 2-0-0 | csi | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL (roof) | (53) | Plate Grip DOL | 1.15 | TC | 0.28 | Vert(LL) | 0.00 | 4-5 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.08 | Vert(CT) | 0.00 | 4-5 | >999 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-R | 0.00 | Wind(LL) | 0.00 | 4-5 | >999 | 240 | Weight: 8 lb | FT = 10% |
| | 10.0 | 0000 | | Mathx IX | | Wind(EE) | 0.00 | 10 | 2000 | 210 | Wolght. O lb | 11 - 10% |
| | | | | designed in accore Residential Code | | | and | | | | | |
| TOP CHORD | | | | nd referenced star | | | anu | | | | | |
| BOT CHORD WEBS | 2x4 SPF No.2 2x4 SPF No.2 | | | | | 0/1111. | | | | | | |
| | 2X4 SPF N0.2 | | LOAD CASE(S) | Standard | | | | | | | | |
| BRACING | Structural wood at a | othing directly coolid | dor | | | | | | | | | |
| TOP CHORD | Structural wood she | | | | | | | | | | | |
| BOT CHORD | 2-0-8 oc purlins, ex Rigid ceiling directly | | 、 | | | | | | | | | |
| DOT CHORD | bracing. | | , | | | | | | | | | |
| REACTIONS | 0 | anical, 4= Mechanica | I | | | | | | | | | |
| NEACTIONS | (SIZE) 5= IVIECTIZ 5=0-5-8 | | ', | | | | | | | | | |
| | Max Horiz 5=52 (LC | 4) | | | | | | | | | | |
| | Max Uplift 3=-15 (LC | , | 133 | | | | | | | | | |
| | (LC 4) | | | | | | | | | | | |
| | Max Grav 3=10 (LC | 1), 4=27 (LC 3), 5=3 | 802 | | | | | | | | | |
| | (LC 1) | | | | | | | | | | | |
| FORCES | (lb) - Maximum Com | pression/Maximum | | | | | | | | | | |
| | Tension | | | | | | | | | | | |
| TOP CHORD | 2-5=-260/137, 1-2=0 | 0/45, 2-3=-38/1 | | | | | | | | | | |
| BOT CHORD | 4-5=0/0 | | | | | | | | | | | |
| NOTES | | | | | | | | | | | | |
| | CE 7-16; Vult=115mph | | | | | | | | | | | |
| | nph; TCDL=6.0psf; BC | | | | | | | | | | | an |
| | Enclosed; MWFRS (er | | | | | | | | | | OFI | MIG |
| | left and right exposed | | | | | | | | | | FEUL | AN Ser |
| | sed; Lumber DOL=1.6 | | 50 | | | | | | | 6 | TATE OF | N.S. |
| | has been designed fo load nonconcurrent wi | | łc | | | | | | | R | SCOT | TM. YEY |
| | s has been designed f | | | | | | | | | 8 | SEV | |
| | tom chord in all areas | | P31 | | | | | | | tak | 1 | 0 +4 |
| | Il by 2-00-00 wide will | | m | | | | | | | | that the | Sanda |
| | any other members. | | | | | | | | 6 | | NUR | |
| | irder(s) for truss to tru | ss connections. | | | | | | | | 27 | NUM | |
| | echanical connection | |) | | | | | | | N. | PE-2001 | 018807 |
| | ate capable of withstar | | joint | | | | | | | V | The last | 158 |
| 5, 15 lb up | olift at joint 3 and 5 lb u | iplift at joint 4. | | | | | | | | | ESSIONA | ENUS |
| | | | | | | | | | | | A TONA | L |
| | | | | | | | | | | | uno alla | 202 |

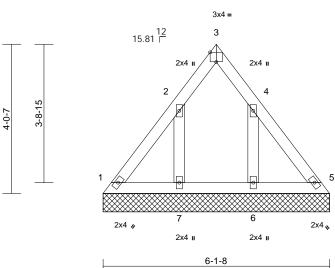
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 or 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)



| | | | | | | RELEASE FOR CONSTRUCTION |
|---------|-------|------------|-----|------|-------------------------|-----------------------------------|
| Job | Truss | Truss Type | Qty | Plv | Lot 176 HT | AS NOTED FOR PLAN REVIEW |
| 305 | 11035 | Truss Type | Giy | l''y | | DEVELOPMENT SERVICES 159955147 |
| B240005 | LAY1 | GABLE | 1 | 1 | Job Reference (optional | |
| | | | | | | |

Run: 8.71 S Jul 27 2023 Print: 8.710 S Jul 27 2023 MiTek Industries, Inc. Fri Aug 04 (8) 52 / 13/2024 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3uITXbGr WrCDoi / 42664





Scale = 1:31.2

Plate Offsets (X, Y): [3:Edge,0-3-2]

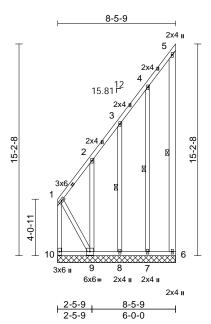
| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 25.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 YES IRC2018/TPI20 ⁻ | CSI TC BC WB 4 Matrix-P | 0.05 0.03 0.03 | DEFL Vert(LL) Vert(TL) Horiz(TL) | in n/a n/a 0.00 | (loc) - - 5 | l/defl n/a n/a n/a | L/d 999 999 n/a | PLATES MT20 Weight: 23 lb | GRIP 197/144 FT = 10% |
|---|--|--|---|--|---|--|--------------------------|----------------------|-----------------------------|--------------------------|---|------------------------------------|
| BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS (| Max Horiz 1=-103 (L Max Uplift 1=-13 (LC (LC 9), 7= Max Grav 1=118 (LC | applied or 10-0-0 oc 5=6-1-8, 6=6-1-8, 7=1 C 4) 6), 5=-12 (LC 7), 6= -149 (LC 8) | on the 3-06-0 chord 8) Provid bearin 1, 12 I uplift a 9) This tr 6-1-8 R802. LOAD CA | truss has been design bottom chord in all are 0 tall by 2-00-00 wide and any other membe e mechanical connect g plate capable of with o uplift at joint 5, 149 II t joint 6. uss is designed in acc titional Residential Coo 10.2 and referenced st SE(S) Standard | eas where will fit betw rs. ion (by oth standing 1 b uplift at jo ordance wi de sections | a rectangle veen the botto ers) of truss to 3 lb uplift at jo bint 7 and 148 th the 2018 R502.11.1 a | om o oint 3 lb | | | | | |
| BOT CHORD WEBS NOTES 1) Unbalanced this design. 2) Wind: ASCI Vasd=91mp II; Exp C; E cantilever le right expose 3) Truss desig only. For si see Standa or consult q 4) Gable requi 5) Gable stude 6) This truss here | (lb) - Maximum Com Tension 1-2=-158/86, 2-3=-6: 4-5=-157/85 1-7=-57/132, 6-7=-5 2-7=-167/174, 4-6=- d roof live loads have E 7-16; Vult=115mph oh; TCDL=6.0psf; BC nclosed; MWFRS (en eft and right exposed ed; Lumber DOL=1.6! gned for wind loads in tuds exposed to wind rud Industry Gable End uualified building desig ires continuous bottor s spaced at 2-0-0 oc. nas been designed for pad nonconcurrent wi | 3/14, 3-4=-63/13, 7/132, 5-6=-57/132 166/173 been considered for (3-second gust) DL=6.0psf; h=25ft; C velope) exterior zon ; end vertical left and D plate grip DOL=1.6 the plane of the trus (normal to the face) d Details as applicab gner as per ANSI/TP n chord bearing. | Cat. e; d 50 ss , le, l 1. | | | | | | | | STATE OF J STATE OF J SEV SEV PE-2001 | |



| \lambda 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 |
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| 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) |

| | | | | | | RELEASE FOR CONSTRUCTION |
|---------|-------|--------------|-----|-----|-------------------------|-----------------------------------|
| Job | Truss | Truss Type | Qty | Ply | Lot 176 HT | AS NOTED FOR PLAN REVIEW |
| 5040005 | | | | | | DEVELOPMENT SERVICES 159955148 |
| B240005 | LAY2 | Lay-In Gable | 1 | 1 | Job Reference (optional | |
| | | | | | | |

Run: 8.71 S Jul 27 2023 Print: 8.710 S Jul 27 2023 MiTek Industries, Inc. Fri Aug 04 8 8.3 / 1 3/2 9:24 ID:LfsW?wweLsvcCuot68sTl1zJb1t-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKW CDoi7J22077 1 3/2



Scale = 1:82.7

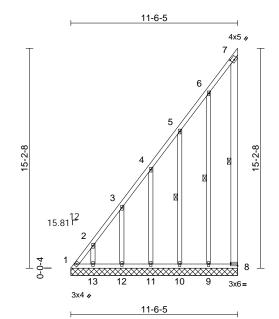
| Scale = 1:82.7 | | | | | | | | | | | | | |
|--|--|--|--|--|---|---|--|----------------------------------|----------------------|-----------------------------|--------------------------|----------------------------------|------------------------------------|
| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 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 | 3/TPI2014 | CSI TC BC WB Matrix-P | 0.50 0.07 0.21 | DEFL Vert(LL) Vert(TL) Horiz(TL) | in n/a n/a 0.00 | (loc) - - 6 | l/defl n/a n/a n/a | L/d 999 999 n/a | PLATES MT20 Weight: 101 lb | GRIP 197/144 FT = 20% |
| LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD WEBS REACTIONS | 2x4 SPF No.2 2x4 SPF No.2 *Exce 2x4 SPF No.2 *Exce 2x4 SPF No.2 Structural wood she 6-0-0 oc purlins, exx Rigid ceiling directly bracing, Except: 8-0-2 oc bracing: 9-1 1 Row at midpt (size) 6=8-5-9, 7 10=8-5-9 Max Horiz 10=569 (L 8=-172 (L 0=763 (L 8=214 (LC 8=214 (LC | athing directly applie cept end verticals. applied or 10-0-0 or 10. 5-6, 4-7, 3-8 7=8-5-9, 8=8-5-9, 9= | 4) 5) 6) 2 3 4 or 7) 5 8) 8-5-9, 9) LO | Truss to be f braced again Gable studs This truss ha chord live loa * This truss f on the bottom 3-06-00 tall b chord and ar Provide mec bearing plate 10, 264 lb up uplift at joint This truss is International | es continuous bott ully sheathed from ast lateral moveme spaced at 2-0-0 or is been designed ad nonconcurrent as been designed n chord in all area by 2-00-00 wide wi y other members. hanical connection e capable of withst blift at joint 6, 177 I 8 and 767 lb uplift designed in accor Residential Code nd referenced star Standard | one fac nt (i.e. c c. or a 10. with any l for a liv s where ll fit betw n (by oth anding 7 b uplift a t joint dance w sections | e or securely liagonal web). O psf bottom other live load e load of 20.0 a rectangle veen the botto ers) of truss t '63 lb uplift at it joint 7, 172 9. ith the 2018 s R502.11.1 a | ds.)psf om joint lb | | | | | |
| FORCES | 10=1119 (Ib) - Maximum Com Tension | · , | | | | | | | | | | | |
| TOP CHORD | | | .71, | | | | | | | | | | alle |
| BOT CHORD WEBS | | , | , | | | | | | | | B | STATE OF I | MISSOLA |
| | 1-9=-598/790 | | | | | | | | | | a | SEVI | |
| Vasd=91n II; Exp C; cantilever right expo 2) Truss des only. For see Stand | CE 7-16; Vult=115mph mph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed sed; Lumber DOL=1.6 signed for wind loads ir studs exposed to wind fard Industry Gable En- t qualified building desig | DL=6.0psf; h=25ft; C velope) exterior zon ; end vertical left and 0 plate grip DOL=1.6 n the plane of the tru (normal to the face) d Details as applicat | ne; d 60 ss , ole, | | | | | | | 2 | | PE-2001 | LENGI |



August 7,2023

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| | | | | | | RELEASE FOR CONSTRUCTION |
|---------|-------|--------------|-----|-----|--------------------------|---|
| Job | Truss | Truss Type | Qty | Ply | Lot 176 HT | AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES |
| B240005 | LAY3 | Lay-In Gable | 1 | 1 | Job Reference (optional) | DEVELOPMENT SERVICES 159955149 LEE'S SUMMIT, MISSOURI |
| | | | - | | | 00/10001 |



Scale = 1:79.7

Plate Offsets (X, Y): [7:0-2-8,0-2-7], [8:Edge,0-1-8]

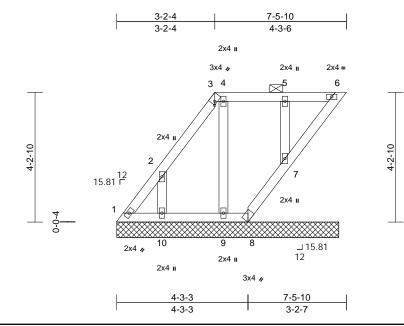
| Loading TCLL (roof) TCDL BCLL | (psf) 25.0 10.0 0.0* | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr | 2-0-0 1.15 1.15 YES | | CSI TC BC WB | 0.56 0.35 0.15 | DEFL Vert(LL) Vert(TL) Horiz(TL) | in n/a n/a 0.00 | (loc) - - 8 | l/defl n/a n/a n/a | L/d 999 999 n/a | PLATES MT20 | GRIP 197/144 |
|---|--|---|---|---|--|---|---|---|----------------------|-----------------------------|--------------------------|----------------|------------------------|
| BCDL | 10.0 | Code | IRC2018 | B/TPI2014 | Matrix-S | | | | | | | Weight: 99 lb | FT = 20% |
| | 6-0-0 oc purlins, ex Rigid ceiling directly bracing. 1 Row at midpt (size) 1=11-6-5 10=11-6- 13=11-6- Max Horiz 1=574 (L Max Uplift 1=-382 (9=-209 (11=-180 3=-159 Max Grav 1=578 (L (LC 15), | y applied or 10-0-0 oc 7-8, 6-9, 5-10 5, 8=11-6-5, 9=11-6-5, 5, 11=11-6-5, 12=11-1-5 C 5) C 6), 8=-305 (LC 7), C 8), 10=-163 (LC 8) (LC 8), 12=-177 (LC 8) | 2) d or 3) 4) 5) 6-5, 6) 7) , , 8) , 8) =207 | Vasd=91mph II; Exp C; En cantilever lef right exposed Truss design only. For stu see Standard or consult qu All plates are Gable requiri Gable studs This truss ha chord live loa * This truss ha chord live loa * This truss ha chord and ar Provide mect bearing plate 1, 305 lb upli uplift at joint joint 12 and | 7-16; Vult=115n r; TCDL=6.0psf; closed; MWFRS t and right exposed t; Lumber DOL= ed for wind load ds exposed to wind load building d 2x4 MT20 unlexiss se continuous bo spaced at 2-0-0 s been designed n chord in all are y 2-00-00 wide in y 2-00-00 wide in y 2-00-00 wide in y 2-00-00 wide in to at a a long to a signed the at a signed to a signed the at a si | BCDL=6.((envelope sed; end v. 1.60 plate is in the pl vind (norm End Deta lesigner as so otherwi vittom chor oc. d for a 10.t t with any ed for a liv as where will fit betw s. on (by oth standing 3 lb uplift at at joint 11, int 13. | psf; h=25ft; C exterior zon ertical left and grip DOL=1.6 ane of the tru al to the face) ls as applicate s per ANSI/TP se indicated. d bearing. 0 psf bottom other live loace e load of 20.0 a rectangle even the botto ers) of truss to 82 lb uplift at joint 9, 163 lb 177 lb uplift at | e; d 30 ss ss , lee, l 1. ds. psf m o joint | | | | | |
| FORCES | Tension | npression/Maximum | - / | International | Residential Cod | e sections | R502.11.1 a | nd | | | | TATE OF I | MISS |
| TOP CHORD | , | -644/459, 3-4=-543/38 -437/310, 6-7=-259/18 | · • • • • | DAD CASE(S) | Standard | | | | | | A | STA SCOT | T M. |
| BOT CHORD | 1-13=-210/160, 12- 11-12=-210/160, 10 9-10=-210/160, 8-9 | 0-11=-210/160, | | | | | | | | | | SEV | |
| WEBS | 6-9=-225/195, 5-10 4-11=-185/194, 3-1 2-13=-163/172 | =-180/223, | | | | | | | | | A. | PE-2001 | |
| NOTES | | | | | | | | | | | Q | FESSIONA | L ENGINE |

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| | | | | | | RELEASE FOR CONSTRUCTION |
|---------|-------|--------------|-----|-----|-------------------------|-----------------------------------|
| lab | Truce | Truss Type | Qty | Plv | Lot 176 HT | AS NOTED FOR PLAN REVIEW |
| Job | Truss | Truss Type | Quy | гіу | | DEVELOPMENT SERVICES 159955150 |
| B240005 | LAY4 | Lay-In Gable | 2 | 1 | Job Reference (optional | |
| - | | | | | | |

Run: 8.71 S Jul 27 2023 Print: 8.710 S Jul 27 2023 MiTek Industries, Inc. Fri Aug 04 (8) 62/1 3/20:24 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3uITXbGi WrCDoi7942694



Scale = 1:37.5

Plate Offsets (X, Y): [3:0-1-3,Edge]

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

| 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 | 0.10 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| FCDL | 10.0 | Lumber DOL | 1.15 | | BC | 0.05 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | | WB | 0.06 | Horiz(TL) | 0.00 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC201 | 8/TPI2014 | Matrix-P | | | | | | | Weight: 38 lb | FT = 10% |
| UMBER TOP CHORD BOT CHORD DTHERS BRACING TOP CHORD | 2x4 SP No.3 2x4 SP No.3 2x4 SP No.3 Structural wood she 6-0-0 oc purlins, exc | | 3) 4) d or 5) 6) | only. For stu see Standard or consult qu Provide adeo All plates are | ned for wind loads ids exposed to wind d Industry Gable E alified building de quate drainage to e 2x4 MT20 unless spaced at 2-0-0 o | nd (norm End Deta signer as prevent s otherwi | al to the face ils as applica per ANSI/TI water ponding |), ble, PI 1. | | | | | |
| OT CHORD | 2-0-0 oc purlins, 6-0 Rigid ceiling directly bracing, Except: 6-0-0 oc bracing: 6-7 | -0 max.): 3-6. applied or 10-0-0 oc | 7) 8) | chord live loa * This truss h on the bottor | is been designed ad nonconcurrent has been designed n chord in all area | with any d for a liv is where | other live loa e load of 20.0 a rectangle | Opsf | | | | | |
| | 8=7-2-11, Max Horiz 1=160 (LC Max Uplift 1=-28 (LC (LC 4), 8= 5), 10=-16 Max Grav 1=128 (LC | 5 6), 6=-51 (LC 8), 7= -24 (LC 15), 9=-24 (55 (LC 8) C 8), 6=72 (LC 1), 7= B=60 (LC 8), 9=152 (I | 1 9) =-44 LC | chord and ar Provide mec bearing plate 1, 51 lb uplifi joint 7, 24 lb N/A 1) This truss is | by 2-00-00 wide w by other members hanical connection capable of withst at joint 6, 24 lb u uplift at joint 9 and designed in accor Residential Code | n (by oth tanding 2 plift at joi d 165 lb rdance w | ers) of truss t 8 lb uplift at j nt 8, 44 lb up uplift at joint 1 ith the 2018 | io oint lift at 10. | | | | | |
| FORCES | (lb) - Maximum Com Tension 1-2=-170/74, 2-3=-7 | 5/12, 3-4=-23/39, | 1: | R802.10.2 a 2) Graphical pu | nd referenced star rlin representation ation of the purlin | ndard AN n does no | ISI/TPI 1. ot depict the s | | | | | | |
| BOT CHORD | 4-5=-23/39, 5-6=-23, 1-10=-39/23, 9-10=- 7-8=-70/53, 6-7=-75, | 39/23, 8-9=-39/23, | L | bottom chore OAD CASE(S) | i. ' | a.eg ure | | | | | | TATE OF J | MISSO |
| NEBS | 5-7=-156/67, 4-9=-1 | 17/45, 2-10=-173/18 | 7 | | | | | | | | a | N | New |
| this design 2) Wind: ASC Vasd=91m II; Exp C; E | ed roof live loads have n. DE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (er | (3-second gust) DL=6.0psf; h=25ft; C avelope) exterior zon | Cat. e; | | | | | | | | | SCOT SEV | ier ter ter |

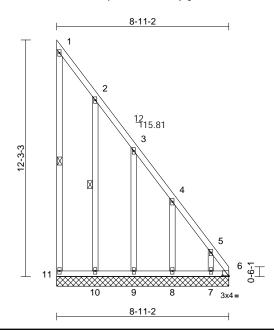


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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)



| | | | | | | RELEASE FOR CONSTRUCTION |
|---------|-------|--------------|-----|-----|-------------------------|-----------------------------------|
| Job | Truss | Truss Type | Qty | Ply | Lot 176 HT | AS NOTED FOR PLAN REVIEW |
| | | | ς., | , | | DEVELOPMENT SERVICES 159955151 |
| B240005 | LAY5 | Lay-In Gable | 1 | 1 | Job Reference (optional | |
| | | | | | | 00/10/0001 |

Run: 8.71 S Jul 27 2023 Print: 8.710 S Jul 27 2023 MiTek Industries, Inc. Fri Aug 04 8 32/1 3/2 224 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3uITXbGr WrCDoi 22594



Scale = 1:59.7

Plate Offsets (X, Y): [6:0-4-0,0-0-6]

| | | | _ | | | | | | | | | | |
|---|---|---|-------------------------------------|---|---|--|--|----------------------|----------------------|----------------------|--------------------------|---------------------------------|------------------------------------|
| Loading TCLL (roof) TCDL BCLL BCDL LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD | (psf) 25.0 10.0 0.0* 10.0 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 Structural wood she 6-0-0 oc purlins, exx Rigid ceiling directly | cept end verticals. | 3) 4) 5) 6) 7) ed or | Gable requir Gable studs This truss ha chord live loa * This truss h on the bottor 3-06-00 tall b | CSI TC BC WB Matrix-P 2 2x4 MT20 unless es continuous bot spaced at 2-0-0 o is been designed ad nonconcurrent nas been designed n chord in all area by 2-00-00 wide w by other members | tom choi c. for a 10. with any d for a liv is where ill fit betv | d bearing. 0 psf bottom other live loa e load of 20.0 a rectangle |)psf | (loc) - - 6 | l/defl n/a n/a | L/d 999 999 n/a | PLATES MT20 Weight: 64 lb | GRIP 197/144 FT = 10% |
| WEBS REACTIONS | bracing. 1 Row at midpt (size) 6=8-11-2, 9=8-11-2, Max Horiz 11=-477 (Max Uplift 6=-268 (L 8=-181 (L 10=-186 (Max Grav 6=663 (LC 8=233 (LC | 1-11, 2-10 7=8-11-2, 8=8-11-2 10=8-11-2, 11=8-11 LC 9) C 7), 7=-205 (LC 9), C 9), 9=-173 (LC 9), LC 9), 11=-65 (LC 9) | 8) -2 9)) LC | bearing plate 11, 268 lb up uplift at joint joint 7. This truss is International | hanical connectio e capable of withs olift at joint 6, 186 9, 181 lb uplift at j designed in accor Residential Code nd referenced star Standard | tanding 6 lb uplift a joint 8 ar dance w sections | 55 lb uplift at ju it joint 10, 173 id 205 lb uplif ith the 2018 5 R502.11.1 a | oint 3 lb t at | | | | | |
| FORCES | (lb) - Maximum Com Tension | pression/Maximum | , | | | | | | | | | | |
| TOP CHORD | 1-11=-68/74, 1-2=-8 3-4=-440/196, 4-5=- | | 52 | | | | | | | | | (DOL) | alle |
| BOT CHORD | 10-11=-199/477, 9-1 8-9=-199/477, 7-8=- | | 77 | | | | | | | | | STATE OF | MISSO |
| WEBS | 2-10=-197/212, 3-9= 5-7=-174/225 | -183/197, 4-8=-191/ | 206, | | | | | | | | Ø | S SCOT | тм. |
| Vasd=91m II; Exp C; E cantilever I | CE 7-16; Vult=115mph pph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed _umber DOL=1.60 plat | DL=6.0psf; h=25ft; C velope) exterior zon ; end vertical right | | | | | | | | ł | R | SEV NUM PE-2001 | BEREIL |

 exposed; Lumber DOL=1.60 plate grip DOL=1.60
 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

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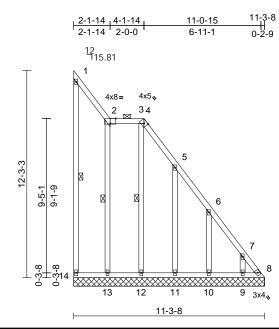


August 7,2023

ESSIONAL ET

| | | | | | | RELEASE FOR CONSTRUCTION |
|---------|-------|--------------|------|------|-------------------------|-----------------------------------|
| Job | Truss | Truss Type | Qty | Plv | Lot 176 HT | AS NOTED FOR PLAN REVIEW |
| 000 | 11033 | | Galy | 1 19 | | DEVELOPMENT SERVICES I59955152 |
| B240005 | LAY6 | Lay-In Gable | 1 | 1 | Job Reference (optional | |
| | | | | | | |

Run: 8.71 S Jul 27 2023 Print: 8.710 S Jul 27 2023 MiTek Industries, Inc. Fri Aug 04 (8) 62/1 3/20:24 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3uITXbGi WrCDoi7942694



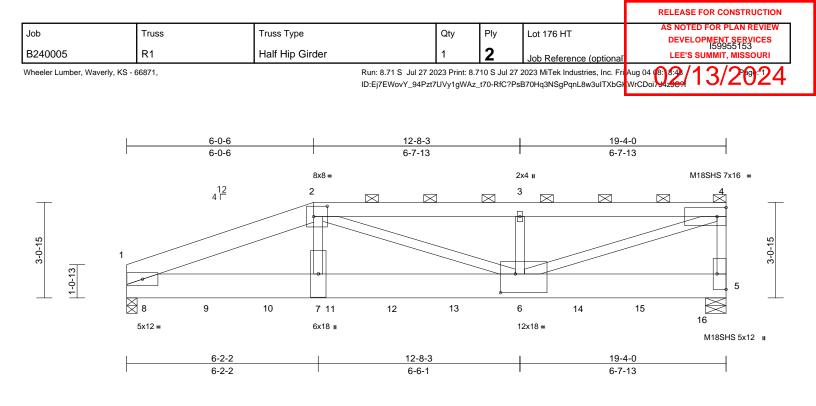
Scale = 1:68.2

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

| | | | : | | | | | | | | | |
|--|---|---|--|--|---|---|--|-------|--------|-----|---------------|-----------------------------------|
| 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 | 0.08 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.08 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.14 | Horiz(TL) | 0.01 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | Weight: 79 lb | FT = 10% |
| LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD WEBS REACTIONS | 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 Structural wood she 6-0-0 oc purlins, ex 2-0-0 oc purlins (6-C Rigid ceiling directly bracing. 1 Row at midpt (size) 8=11-3-8 11=11-3-1 14=11-3-1 (size) 8=11-3-8 11=11-3-1 14=11-3-1 (size) 8=11-3-8 11=1-3-1 14=1-3-1 (size) 8=11-3-8 11=2-227 (Max Horiz 14=-477) Max Grav 8=606 (L0 10=229 (I 12=196 (I 14=101 (I (lb) - Maximum Com Tension 1-14=-85/89, 1-2=-9 3-4=-104/45, 4-5=-2 6-7=-621/276, 7-8=- 13-14=-201/476, 12 11-12=-201/476, 8-9 2-13=-140/18, 3-12= | athing directly applied cept end verticals, and -0 max.): 2-4. applied or 10-0-0 oc 1-14, 2-13, 3-12 9=11-3-8, 10=11-3-8, 3, 12=11-3-8, 13=11-3-8, 3, 12=11-3-8, 13=11-3-8, 3, 12=11-3-8, 13=11-3-8, 3, 12=11-3-8, 13=11-3-8, 12=10-2, 10=10-0, 10=10-0, C 7), 9=-152 (LC 9), LC 9), 11=-192 (LC 9), LC 9), 11=-192 (LC 9), LC 9), 14=-82 (LC 9), C 16), 11=233 (LC 16), -C 16), 13=182 (LC 1), -C 16), 14=182 (LC 1), -C 16) | Wind: AS Vasd=91 II; Exp C cantileve exposed Truss de only. Fo Truss de only. Fo Truss de only. Fo See Star or consu Provide a All plates Gable st Gable st This trus chord liv * This trus chord liv * This trus on the be 3-06-00 chord an Provide a -8, " * This trus chord an 9) Provide bearing p 14, 243 I uplift at j at joint 9 10) This trus Internation R802.10 11) Graphica or the or bottom c | SCE 7-16; Vult=115n mph; TCDL=6.0psf; Enclosed; MWFRS r left and right expose ; Lumber DOL=1.60 signed for wind load r studs exposed to w dard Industry Gable It qualified building d adequate drainage to a are 2x4 MT20 unlet quires continuous bo Juds spaced at 2-0-0 s has been designed but nonconcurren ss has been designed but nonconcurren shas been designed but nonconcurren is has been designed but nonconcurren schas been designed and schaster but schaster | BCDL=6. (envelopsed; end v plate grip Is in the p plate grip Is in the p plate grip Is in the p plate grip Is in the p plate grip Is on the plate so therwit there is a source on cost of for a 10. t with any ed for a live as where will fit betw s. on (by oth standing § 7 lb uplift a at joint 10 ordance w le sections andard AM on does no | Dipsf; h=25ft; (a) exterior zor vertical right DOL=1.60 lane of the tru al to the face ills as applical s per ANSI/TF water ponding se indicated. d bearing. D psf bottom other live loa e load of 20.0 a rectangle veen the bottos ti2 lb uplift at j2 and 152 lb up ith the 2018 s R502.11.1 a sl5/TP1 1. ot depict the s | ne; iss), ble, 21 1. 2. ds. 2. bpsf om o bint 2 lb blift nd | | | | STATE OF SCOT | MISSOLUE T M. IER 018807 |

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)





Scale = 1:37.2

Plate Offsets (X, Y): [2:0-5-4,0-4-0], [5:Edge,0-3-8], [6:0-5-12,0-7-4]

| | (7, 1): [2:0 0 1,0 1 0], | - [0:⊏dg0,0 0 0], [0:0 | 0 0 12,0 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 | 0.75 | Vert(LL) | -0.24 | 6-7 | >936 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | | BC | 0.59 | Vert(CT) | -0.43 | 6-7 | >530 | 240 | M18SHS | 197/144 |
| BCLL | 0.0* | Rep Stress Incr | NO | | WB | 0.89 | Horz(CT) | 0.04 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC20 | 8/TPI2014 | Matrix-S | - | Wind(LL) | 0.15 | 6-7 | >999 | 240 | Weight: 282 lb | FT = 20% |
| LUMBER | | | 3 |) Wind: ASCE | 7-16; Vult=115n | nph (3-seo | cond gust) | | LOAD | CASE(S |) Sta | ndard | |
| TOP CHORD | 2x8 SP DSS *Excep | t* 2-4:2x6 SPF 165 | 0F | | h; TCDL=6.0psf; | | | | 1) De | ead + Ro | oof Live | e (balanced): Lun | nber Increase=1.15, |
| | 1.4E | | | | nclosed; MWFRS | | | | | ate Incre | | | |
| BOT CHORD | 2x10 SP 2400F 2.0E | | | | posed ; end vertie | | | ed; | | hiform Lo | | , | |
| NEBS | 2x4 SPF No.2 *Exce | pt* 6-2,6-4:2x4 SPF | | | _=1.60 plate grip | | | | | | , | 2-4=-70, 1-5=-20 | |
| | 2100F 1.8E | | 4 | | quate drainage to | | | | Co | oncentra | ted Lo | ads (lb) | |
| RACING | | | 5 | | e MT20 plates ur | | | d. | | | | (F=-754, B=-105 | |
| OP CHORD | Structural wood she | athing directly appli | ed or 6 | | as been designed | | | | | | | 54, B=-1124), 10 | |
| | 4-10-9 oc purlins, e | xcept end verticals, | | | ad nonconcurren | | | | | | | 1721 (F=-754, B= | |
| | 2-0-0 oc purlins (4-0 | -2 max.): 2-4. | 7 | | has been designe | | | Jpst | | | | | F=-754, B=-1055), |
| BOT CHORD | Rigid ceiling directly | applied or 10-0-0 o | C | | m chord in all are | | | | | | | | 5=-1810 (F=-754, |
| | bracing. | | | | by 2-00-00 wide | | veen the botto | om | | B=-105 | 5), 16= | -1817 (F=-758, E | 8=-1059) |
| REACTIONS | (size) 1=0-4-0, 5 | 5=0-8-0 | • | | ny other member | | | _ | | | | | |
| | Max Horiz 1=83 (LC | 20) | 8 | | chanical connecti | | | | | | | | |
| | Max Uplift 1=-869 (L | C 4), 5=-68 (LC 4) | | | e capable of with | stanuing c | og in uplitt at | joint | | | | | |
| | Max Grav 1=8508 (L | _C 1), 5=9742 (LC 1 | l) 9 | | uplift at joint 5. designed in acco | ordonco w | ith the 2019 | | | | | | |
| ORCES | (lb) - Maximum Com | pression/Maximum | | | Residential Cod | | | nd | | | | | |
| 0 | Tension | | | | ind referenced sta | | | inu | | | | | |
| TOP CHORD | 1-2=-17577/1630, 2- | -3=-16202/937, | 1 | | urlin representation | | | size | | | | | |
| | 3-4=-16200/937, 4-5 | | ' | | ation of the purlir | | | 5120 | | | | | |
| BOT CHORD | 1-7=-1510/16220, 6- | -7=-1555/16590, | | bottom chor | | i along in | | | | | | | |
| | 5-6=-21/349 | | 1 | | r other connectio | n device(s |) shall be | | | | | | |
| VEBS | 2-7=-742/6151, 2-6= | -415/713, 3-6=-190 | | | ficient to support | | | 53 | | | | | |
| | 4-6=-974/16951 | | | | 12 lb up at 1-3- | | | | | | | Con | Jan |
| NOTES | | | | | 754 lb down and | | | | | | | A OF I | AIS C |
|) 2-plv truss | s to be connected toget | ther with 10d | | down and 6 | 2 lb up at 5-3-4, | 754 lb dov | vn and 86 lb | up at | | | 1 | 750 | N.OS |
| | ") nails as follows: | | | Ib down and 12 lb up at 1-3-4, 1124 lb down and 231 lb up at 3-3-4, 754 lb down and 174 lb up at 3-3-4, 965 lb down and 62 lb up at 5-3-4, 754 lb down and 86 lb up at 5-3-4, 967 lb down and 62 lb up at 7-3-4, 754 lb down | | | | | | | | | New M |
| Top chord | s connected as follows | s: 2x8 - 2 rows | | and 101 lb up at 7-3-4, 1055 lb down and 183 lb up at | | | | | | | | | |
| staggered | at 0-9-0 oc, 2x6 - 2 ro | ws staggered at 0-9 | 9-0 | 9-3-4, 754 lb down and 101 lb up at 9-3-4, 1055 lb down | | | | | | | | | |
| oc, 2x4 - 1 | 1 row at 0-9-0 oc. | | | | ip at 11-3-4, 754 | | | | | | | | |
| Bottom ch | nords connected as follo | ows: 2x10 - 2 rows | | 11-3-4, 1055 lb down and 15 lb up at 13-3-4, 754 lb down and 101 lb up at 13-3-4, 1055 lb down at 15-3-4, | | | | | | | | | |
| 00 | d at 0-6-0 oc. | | | | | | | | | - | | NUM | RER A |
| | nected as follows: 2x4 - | | | | and 101 lb up at | | | | | | 47 | | |
| | are considered equally | | | | lb down and 101 | | | 58 lb | | | N | PE-2001 | 018807 |
| | noted as front (F) or ba | | DAD | | 9 lb up at 19-3-4 | | | | | | Y | NO. | 154 |
| CASE(S) | section. Ply to ply conr | nections have been | | 19-3-4 on bo | ottom chord. The | e design/se | election of su | ch | | | | Ser | NUH |

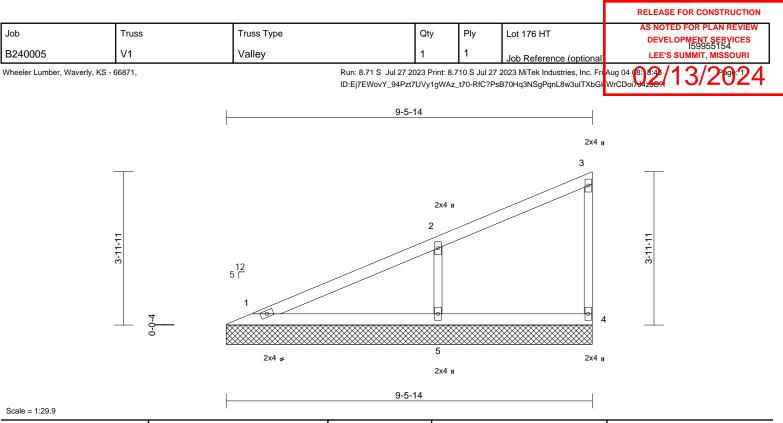
CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

sign/ of such connection device(s) is the responsibility of others.





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| Loading TCLL (roof) TCDL BCLL | (psf) 25.0 10.0 0.0* | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr | 2-0-0 1.15 1.15 YES | | CSI TC BC WB | 0.29 0.16 0.07 | DEFL Vert(LL) Vert(TL) Horiz(TL) | in n/a n/a 0.00 | (loc) - - 4 | l/defl n/a n/a n/a | L/d 999 999 n/a | PLATES MT20 | GRIP 197/144 |
|--|--|---|---------------------------------|---|--|---------------------------------------|---|--------------------------|----------------------|-----------------------------|--------------------------|----------------|------------------------|
| BCDL | 10.0 | Code | IRC2018/ | TPI2014 | Matrix-S | | | | | | | Weight: 26 lb | FT = 10% |
| LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD | 2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 2x3 SPF No.2 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. | cept end verticals. | 8) d or LOA | bearing plate 4 and 129 lb This truss is International | hanical connection e capable of withs uplift at joint 5. designed in accc Residential Code nd referenced star Standard | standing 2 ordance w e sections | 3 lb uplift at j ith the 2018 5 R502.11.1 a | oint | | | | | |
| REACTIONS | (size) 1=9-5-14, Max Horiz 1=158 (LC Max Uplift 4=-23 (LC Max Grav 1=172 (LC (LC 1) | C 5), 5=-129 (LC 8) | =487 | | | | | | | | | | |
| FORCES | (lb) - Maximum Com Tension | pression/Maximum | | | | | | | | | | | |
| TOP CHORD | 1-2=-123/71, 2-3=-1 | | | | | | | | | | | | |
| BOT CHORD | 1-5=-51/39, 4-5=-51 2-5=-370/182 | /39 | | | | | | | | | | | |
| NOTES | 2-3=-370/182 | | | | | | | | | | | | |
| Wind: ASC Vasd=91rr II; Exp C; I cantilever right exposized 2) Truss des only. For see Stand | CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed sed; Lumber DOL=1.6 signed for wind loads in studs exposed to wind ard Industry Gable En | DL=6.0psf; h=25ft; C nvelope) exterior zon ; end vertical left and 0 plate grip DOL=1.6 n the plane of the tru I (normal to the face) d Details as applicat | e; 1 60 55 , le, | | | | | | | | ł. | STATE OF I | |
| Gable required Gable studies This truss chord live | qualified building desi uires continuous botto ds spaced at 4-0-0 oc. has been designed fo load nonconcurrent wi s has been designed f | m chord bearing. r a 10.0 psf bottom ith any other live load | ls. | | | | | | | ر - | L. | SEV. | Service |

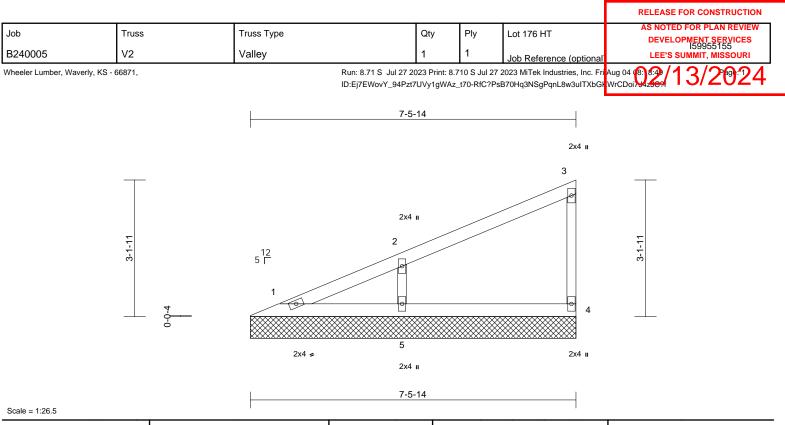
* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

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August 7,2023

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| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 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-P | 0.19 0.10 0.05 | DEFL Vert(LL) Vert(TL) Horiz(TL) | in n/a n/a 0.00 | (loc) - - 4 | l/defl n/a n/a n/a | L/d 999 999 n/a | PLATES MT20 Weight: 20 lb | GRIP 197/144 FT = 10% |
|---|---|---|--|---|----------------------------------|--|--------------------------|----------------------|-----------------------------|--------------------------|---------------------------------|------------------------------------|
| LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS | 2x3 SPF No.2 2x3 SPF No.2 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. (size) 1=7-5-14, Max Horiz 1=122 (LC Max Uplift 4=-26 (LC Max Grav 1=81 (LC | cept end verticals. applied or 10-0-0 oc 4=7-5-14, 5=7-5-14 C 5) S 8), 5=-102 (LC 8) | bearing pl 4 and 102 8) This truss Internation R802.10.2 ed or LOAD CASE(| echanical connection ate capable of withst Ib uplift at joint 5. is designed in accornal Residential Code and referenced star S) Standard | tanding 2 dance w sections | 26 lb uplift at j ith the 2018 s R502.11.1 a | oint | | | | | |
| FORCES TOP CHORD BOT CHORD WEBS | (LC 1) (lb) - Maximum Com Tension 1-2=-99/52, 2-3=-92 1-5=-40/30, 4-5=-40 2-5=-299/153 | /32, 3-4=-109/44 | | | | | | | | | | |
| NOTES 1) Wind: AS(Vasd=91n II; Exp C; cantilever right expo 2) Truss des only. For see Stand or consult 3) Gable req 4) Gable struss chord live 6) * This truss | CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed sed; Lumber DOL=1.6 signed for wind loads ir studs exposed to wind lard Industry Gable En qualified building desi uires continuous bottoo ds spaced at 4-0-0 oc. has been designed fo load nonconcurrent wi is has been designed fo | DL=6.0psf; h=25ft; C ivelope) exterior zon ; end vertical left and 0 plate grip DOL=1.6 in the plane of the true (normal to the face) d Details as applicab gner as per ANSI/TP m chord bearing. r a 10.0 psf bottom th any other live load or a live load of 20.0 | ie; d 50 ss ole, ole, ds. | | | | | | ę | | STATE OF I | ER the the the |

6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

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) August 7,2023

SSIONAL EN



| | | | | | | | | | | | | RELEAS | E FOR CONSTRUCTION | |
|------------------------|-------------------------------|---------------|---|---------------|----------------------------|---|-----------|-----------------|-------------|------------|---------------------|--------------------|---|----|
| Job | | Truss | | Truss Typ | be | | Qty | Ply | Lot | 176 HT | | | ED FOR PLAN REVIEW | |
| B240005 | | V3 | | Valley | | | 1 | 1 | Job | Refere | nce (optiona | | LOPMENT SERVICES 159955156 SUMMIT, MISSOURI | |
| Wheeler Lumber, | Waverly, KS - 6 | 6871, | | | | Run: 8.71 S Jul 27 2 | | | 27 2023 N | MiTek Inc | lustries, Inc. F | ri Aug 04 (8: 8:4) | 13/2024 | Ē. |
| | | | | | | ID:Ej7EWovY_94Pzt7 | 7UVy1gWA: | z_t70-RfC? | 'PsB70Ho | q3NSgPq | nL8w3ulTXb0 | GHWrCDoi794z9C?f | 10/2021 | |
| | | | | ļ | | 5-{ | 5-14 | | | | | | | |
| | | | | l | | | | | | | | | | |
| | | | | | | | | | | | 2x4 II | | | |
| | | | | | | | | | | 2 | | | | |
| | | | - | | | | | | _ | | | | | |
| | | | | | | | | | | | | | | |
| | | 2-3-11 | | | 12 5 | | | | | | | 2-3-11 | | |
| | | 5-0 | | | | | | | | | | 5 | | |
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| | | | - 0 | ſ | | ~ | ~~~~~ | | |] | Ŭ 3 ∞ | | | |
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| | | | | | | 2x4 ዾ | | | | | 2x4 u | | | |
| | | | | | | | | | | | | | | |
| | | | | | | 5-5 | 5-14 | | | | _ | | | |
| Scale = 1:22.2 | | () | | | | | | | | <i>(</i>) | | | | |
| Loading TCLL (roof) | | (psf) 25.0 | Spacing Plate Grip DOL | 2-0-0 1.15 | | | | t(LL) | in n/a | (loc) - | l/defl L/ n/a 99 | 9 MT20 | GRIP 197/144 | |
| TCDL BCLL | | 10.0 0.0* | Lumber DOL Rep Stress Incr | 1.15 YES | | | | t(TL) iz(TL) | n/a 0.00 | - 3 | n/a 99 n/a n/ | | | |
| BCDL | | 10.0 | Code | IRC2018/ | | Matrix-P | | | | | | Weight: 14 lb | FT = 10% | |
| LUMBER TOP CHORD | 2x4 SPF No. | | | | International | designed in accordant Residential Code sec | tions R50 | 2.11.1 and | d | | | | | |
| BOT CHORD WEBS | 2x4 SPF No. 2x3 SPF No. | | | | R802.10.2 ar AD CASE(S) | nd referenced standar Standard | d ANSI/11 | -11. | | | | | | |
| BRACING TOP CHORD | Structural wo | od shea | athing directly applied | d or | | | | | | | | | | |
| BOT CHORD | Rigid ceiling | | cept end verticals. applied or 10-0-0 oc | | | | | | | | | | | |
| REACTIONS | bracing. (size) 1= | 5-5-14, | 3=5-5-14 | | | | | | | | | | | |
| | Max Horiz 1= Max Uplift 1= | | 5) 8), 3=-48 (LC 8) | | | | | | | | | | | |
| | Max Grav 1= | 211 (LC | C 1), 3=211 (LC 1) pression/Maximum | | | | | | | | | | | |
| TOP CHORD | Tension 1-2=-76/51, 2 | | | | | | | | | | | | | |
| BOT CHORD | 1-3=-28/21 | 2 0= 10 | 4/10 | | | | | | | | | | | |
| | | | (3-second gust) | | | | | | | | | | | |
| II; Exp C; E | nclosed; MWI | FRS (en | DL=6.0psf; h=25ft; C velope) exterior zone | ; | | | | | | | | | | |
| right expos | ed; Lumber D | OL=1.60 | ; end vertical left and 0 plate grip DOL=1.6 | C | | | | | | | | | | |
| only. For s | tuds exposed | to wind | the plane of the trus (normal to the face), | | | | | | | | | CONT. | A DE | |
| or consult of | qualified buildin | ng desig | d Details as applicabl gner as per ANSI/TPI | | | | | | | | | ATE | MISSOL | |
| 4) Gable stud | s spaced at 4- | 0-0 oc. | n chord bearing. | | | | | | | | Å | SCOT | | |
| chord live le | oad nonconcu | rrent wit | th any other live load | | | | | | | | <u> </u> | * | | |
| on the botto | om chord in al | lareas | or a live load of 20.0p where a rectangle | | | | | | | | 8 | Acott | · server | 7 |
| chord and a | any other men | nbers. | fit between the bottor | 11 | | | | | | | Ý | PE-2001 | | |
| bearing pla | te capable of | withstan | by others) of truss to nding 31 lb uplift at joi | nt | | | | | | | | ESSIONA | L ENGL | |
| i ang 48 lb | uplift at joint 3 | э. | | | | | | | | | | ALCO A | | |
| | | | | | | | | | | | | Augu | ust 7,2023 | |

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)



| | | | | | | | | | RELEASE | FOR CONSTRUCTION | |
|---|--|--|------------------------------|---|--------------------------|--------------------------------|--------------------------------------|---|-----------------|--|---|
| Job | Truss | | Truss Type | | Qty | Ply | Lot 176 HT | r | | ED FOR PLAN REVIEW | 1 |
| B240005 | V4 | | Valley | | 1 | 1 | Job Refer | ence (optional) | | OPMENT SERVICES 159955157 SUMMIT, MISSOURI | |
| Wheeler Lumber | er, Waverly, KS - 66871, | | | Run: 8.71 S Jul 27 20 ID:Ej7EWovY_94Pzt7 | 023 Print: 8 7UVy1gW/ | 8.710 S Jul 27 Az_t70-RfC?P | 7 2023 MiTek In | ndustries, Inc. Fri | Aug 04 (8: 8:4) | 13/2024 | |
| | | | F | 3 | 3-5-14 | | | | | | |
| | | | | | | | 2x4 II | | | | |
| | - | <u> </u> | | 12 5 | | | 2 | | | | |
| | | 1-5-11 | 5 | 5 T | | | | | 1-5-11 | | |
| | - | | = | | <u> </u> | | 3 | | | | |
| | | | ~~~ | 2x4 = | <u>XXXXXXX</u> | | 2x4 II | | | | |
| Scale = 1:19 | | | + | 3 | 3-5-14 | | | | | | |
| Loading TCLL (roof) TCDL BCLL | (psf) 25.0 10.0 0.0* | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr | 2-0-0 1.15 1.15 YES | BC 0 WB 0 | 0.13 Ver 0.07 Ver | . , | in (loc) n/a - n/a - 0.00 3 | l/defl L/d n/a 999 n/a 999 n/a n/a | MT20 | GRIP 197/144 | _ |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | Weight: 8 lb | FT = 10% | _ |
| LUMBER TOP CHORD BOT CHORD WEBS BRACING | 2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 | | International | designed in accordance Residential Code sect nd referenced standard Standard | ctions R50 | 02.11.1 and | | | | | |
| TOP CHORD BOT CHORD | 3-6-8 oc purlins, ex Rigid ceiling directly | eathing directly applied xcept end verticals. y applied or 10-0-0 oc | | | | | | | | | |
| REACTIONS | bracing. (size) 1=3-5-14, Max Horiz 1=49 (LC | 4, 3=3-5-14 2 5) | | | | | | | | | |

 Max Horiz
 1=49 (LC 5)

 Max Uplift
 1=-18 (LC 8), 3=-27 (LC 8)

 Max Grav
 1=121 (LC 1), 3=121 (LC 1)

 FORCES
 (lb) - Maximum Compression/Maximum Tension

 TOP CHORD
 1-2=-44/29, 2-3=-94/44

TOP CHORD 1-2=-44/29, 2-3=-5 BOT CHORD 1-3=-16/12

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; 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.
- Gable requires continuous bottom chord bearing.
 Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 1 and 27 lb uplift at joint 3.



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| | | | | | | | | | | RELEASE | FOR CONSTRUCTION | |
|-----------------------------------|---|---|------------------------|--|--------------------------|----------------------------------|----------------------------|----------------|-------------------|--------------------|--|---|
| Job | Truss | | Truss Type | | Qty | Ply | Lot 176 H | л | | | D FOR PLAN REVIEW | ٦ |
| B240005 | V5 | | Valley | | 1 | 1 | Job Refere | rence (opt | tional | LEE'S / | OPMENT SERVICES 159955158 SUMMIT, MISSOURI | |
| | r, Waverly, KS - 66871, | | | Run: 8.71 S Jul 27 2 ID:Ej7EWovY_94Pzť | 1.023 Print: t7UVy1gW | : 8.710 S Jul 2 VAz_t70-RfC?! | 27 2023 MiTek In | Industries, In | Inc. Fri A | Aug 04 (8:) 8:50 / | 13/2024 | } |
| | | | \vdash | | 3-7-6 | | | | | | | |
| | | | | | | | 2x4 II | | | | | |
| | _ | | | 12 5 | | | 2 | | | | | |
| | , | -0- -0- | c | Г | / | | | | | 1-6-5 | | |
| | • | - - | | 1 | | | 3 | 3 | | ` | | |
| | _ | o <u></u> o | | | | | | | | | | |
| | | | | 2x4 ≠ | | | 2x4 II | | | | | |
| Scale = 1:19.2 | | | - | | 3-7-6 | | | | | | | |
| Loading TCLL (roof) TCDL | (psf) 25.0 10.0 | Spacing Plate Grip DOL Lumber DOL | 2-0-0 1.15 1.15 | | 0.14 Ve | DEFL /ert(LL) /ert(TL) | in (loc) n/a - n/a - | n/a | L/d 999 999 | PLATES MT20 | GRIP 197/144 | - |
| BCLL BCDL | 0.0* 10.0 | Rep Stress Incr Code | YES IRC2018/TPI2014 | WB 0 Matrix-P | 0.00 Ho | loriz(TL) | 0.00 3 | n/a | n/a | Weight: 8 lb | FT = 10% | _ |
| | | | International | designed in accordan I Residential Code sec and referenced standar Standard | ctions R5 | 502.11.1 and | ł | | | | | |
| BRACING TOP CHORD BOT CHORD | 3-8-0 oc purlins, exo Rigid ceiling directly | eathing directly applied cept end verticals. y applied or 10-0-0 oc | | | | | | | | | | |
| REACTIONS (| bracing. (size) 1=3-7-6, 3 | 3=3-7-6 | | | | | | | | | | |

Max Horiz 1=52 (LC 5) Max Uplift 1=-18 (LC 8), 3=-29 (LC 8) Max Grav 1=126 (LC 1), 3=126 (LC 1) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=-46/30, 2-3=-98/46

TOP CHORD 1-2=-46/30, 2-3=-98/4 BOT CHORD 1-3=-17/13

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; 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.
 Gable requires continuous bottom chord bearing.
- Gable requires continuous botton
 Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 1 and 29 lb uplift at joint 3.

SCOTT M. SEVIER NUMBER PE-2001018807 SIONAL ENGINE August 7,2023

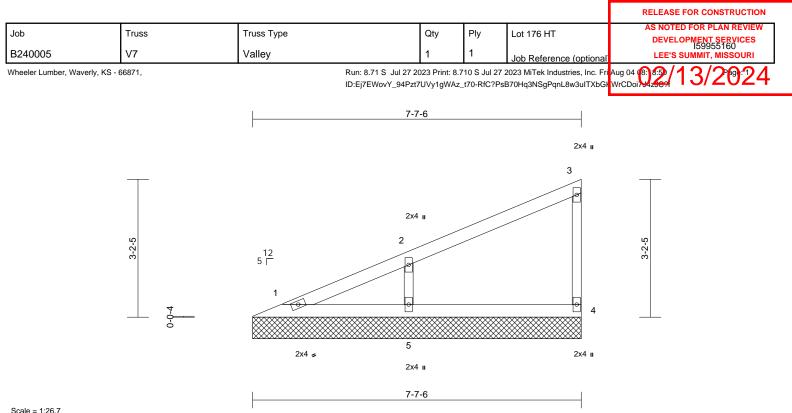
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| | | | | | | | | | | | | RELEASE | FOR CONSTRUCTION | |
|--|------------------------------|--------------|---|----------------|-------------|---|-----------|--------------------|------------|-----------|--------------------|-----------------------------|--|---|
| Job | | Truss | | Truss T | уре | | Qty | Ply | Lot | t 176 HT | | | D FOR PLAN REVIEW | 7 |
| B240005 | | V6 | | Valley | | | 1 | 1 | Job | h Refere | nce (optional | 1 5 5 10 | OPMENT SERVICES 159955159 SUMMIT, MISSOURI | |
| Wheeler Lumber, | Waverly, KS - 66 | 6871, | | | | Run: 8.71 S Jul 27 2 | | | 1 27 2023 | MiTek Inc | lustries, Inc. Fr | iAug 04 (8: 8:5) / • | 13/2024 | |
| | | | | | | ID:Ej7EWovY_94Pzt | 7UVy1gW | /Az_t70-RfC | ?PsB70H | lq3NSgPq | nL8w3ulTXbG | WrCDoi794z 90 ?f | 10/2021 | |
| | | | | | | 5- | 7-6 | | | | | | | |
| | | | | | | | | | | | I | | | |
| | | | | | | | | | | | 2x4 II | | | |
| | | | | | | | | | | 2 | | | | |
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| | | 2-4-5 | | | 12 5 _ | | | | | | | 2-4-5 | | |
| | | 5 | | | | | | | | | | 5 | | |
| | | | | | 1 | | | | | | - | | | |
| | | | 4-0-1 | | | ~ | | | ***** | ***** | 3 ⊠ | | | |
| | | | 0 | | | | | | | | \otimes | | | |
| | | | | | 2 | 2x4 = | | | | | 2x4 II | | | |
| | | | | | 1 | - | 7.0 | | | | | | | |
| Scale = 1:22.4 | | | | | | 5. | 7-6 | | | | _ | | | |
| Loading | (| (psf) | Spacing | 2-0-0 | | CSI | D | EFL | in | (loc) | l/defl L/d | PLATES | GRIP | _ |
| TCLL (roof) TCDL | | 25.0 10.0 | Plate Grip DOL Lumber DOL | 1.15 1.15 | | | | ert(LL) ert(TL) | n/a n/a | - | n/a 999 n/a 999 | | 197/144 | |
| BCLL BCDL | | 0.0* 10.0 | Rep Stress Incr Code | YES IRC2018 | 3/TPI2014 | | | oriz(TĹ) | 0.00 | 3 | n/a n/a | Weight: 14 lb | FT = 10% | |
| | | | | | | designed in accordan | ce with t | he 2018 | | | | Troigita Trib | | _ |
| | 2x4 SPF No.2 2x4 SPF No.2 | | | | | Residential Code sec nd referenced standar | | | nd | | | | | |
| | 2x3 SPF No.2 | | | LC | DAD CASE(S) | Standard | | | | | | | | |
| | | | athing directly applied cept end verticals. | lor | | | | | | | | | | |
| BOT CHORD | | | applied or 10-0-0 oc | | | | | | | | | | | |
| REACTIONS (| size) 1= | 5-7-6, 3 | | | | | | | | | | | | |
| Ν | | -32 (LC | 8), 3=-49 (LC 8) | | | | | | | | | | | |
| FORCES | (lb) - Maximu | | C 1), 3=216 (LC 1) pression/Maximum | | | | | | | | | | | |
| TOP CHORD | Tension 1-2=-78/52, 2 | -3=-168 | 3/78 | | | | | | | | | | | |
| BOT CHORD NOTES | 1-3=-29/22 | | | | | | | | | | | | | |
| Wind: ASCE Vasd=91mp | | | (3-second gust) DL=6.0psf; h=25ft; C | at. | | | | | | | | | | |
| II; Exp C; E | nclosed; MWF | RS (en | velope) exterior zone ; end vertical left and | ; | | | | | | | | | | |
| | | |) plate grip DOL=1.6 the plane of the trus | | | | | | | | | | | |
| | | | (normal to the face), Details as applicabl | e, | | | | | | | | OF | AISSO | |
| | | | ner as per ANSI/TPI n chord bearing. | 1. | | | | | | | 4 | 925/ | No.V | |
| 4) Gable studs | spaced at 4-0 | 0-0 oc. | a 10.0 psf bottom | | | | | | | | A | SCOTT | | |
| chord live lo | ad nonconcur | rent wit | th any other live load or a live load of 20.0p | | | | | | | | 5 | 4 | 2 X | |
| on the botto | m chord in all | areas | where a rectangle fit between the bottor | | | | | | | | | NUM | | / |
| chord and a | ny other mem | bers. | by others) of truss to | | | | | | | | Ø | PE-2001 | 018807 | |
| bearing plat | | vithstar | iding 32 lb uplift at joi | nt | | | | | | | | C'SSIONA | LENGI | |
| | | | | | | | | | | | | and and | st 7,2023 | |

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| 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 | тс | 0.20 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.10 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.05 | Horiz(TL) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | Weight: 20 lb | FT = 10% |

| | 24 011 110.2 |
|-----------|---|
| BOT CHORD | 2x4 SPF No.2 |
| WEBS | 2x3 SPF No.2 |
| OTHERS | 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) 1=7-7-6, 4=7-7-6, 5=7-7-6 |
| | Max Horiz 1=124 (LC 5) |
| | Max Uplift 4=-25 (LC 8), 5=-103 (LC 8) |
| | Max Grav 1=86 (LC 16), 4=140 (LC 1), 5=389 |
| | (LC 1) |
| FORCES | (lb) - Maximum Compression/Maximum |
| | Tension |
| TOP CHORD | 1-2=-101/54, 2-3=-93/31, 3-4=-109/44 |
| BOT CHORD | 1-5=-40/31, 4-5=-40/31 |

- WEBS 2-5=-303/155 NOTES
 - 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; 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.
 - Gable requires continuous bottom chord bearing. 3)
 - Gable studs spaced at 4-0-0 oc. 4)
 - This truss has been designed for a 10.0 psf bottom 5) chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf 6) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

bearing plate capable of withstanding 25 lb uplift at joint 4 and 103 lb uplift at joint 5.

This truss is designed in accordance with the 2018 8) International Residential Code sections R502.11.1 and

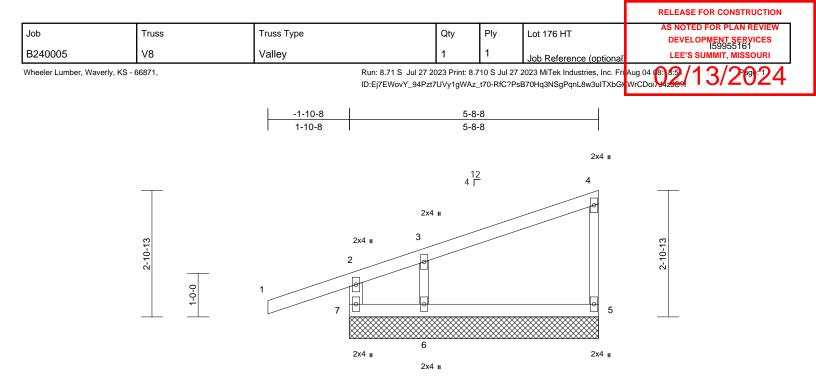
R802.10.2 and referenced standard ANSI/TPI 1.

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)





5-8-8

| Scale = 1:26.4 | | | | | | | | | | | | |
|--|---|---|--|--|--|---|---------------------|-------|--------|-----|---------------|----------|
| 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 | 0.28 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 197/144 |
| FCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.09 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.03 | Horz(CT) | 0.00 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-R | | | | | | | Weight: 19 lb | FT = 10% |
| | 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 *Exce 2x3 SPF No.2 Structural wood she 5-8-8 oc purlins, ex Rigid ceiling directly bracing. (size) 5=5-8-8, (Max Horiz 7=124 (LC Max Uplift 5=-28 (LC (LC 4) Max Grav 5=153 (LC (LC 1) | athing directly applie cept end verticals. applied or 10-0-0 or 5=5-8-8, 7=5-8-8 C 5) ; 4), 6=-76 (LC 8), 7: | ed or c c chord and bearing pl 7, 28 lb up 9) This truss c R802.10.2 LOAD CASE(=-102 | s has been desig tom chord in all a ill by 2-00-00 wid any other memb echanical conner ate capable of wi blift at joint 5 and is designed in ac nal Residential Cr and referenced S) Standard | areas where e will fit betw ers. ction (by oth thstanding 1 76 lb uplift a ccordance w ode sections | a rectangle veen the bott ers) of truss t 02 lb uplift at t joint 6. ith the 2018 R502.11.1 a | om to t joint | | | | | |
| FORCES | (lb) - Maximum Com Tension | pression/Maximum | | | | | | | | | | |
| FOP CHORD | 2-7=-223/102, 1-2=0 3-4=-81/19, 4-5=-11 | | | | | | | | | | | |
| BOT CHORD | 6-7=-35/25, 5-6=-35 | | | | | | | | | | | |
| VEBS | 3-6=-183/115 | | | | | | | | | | | |
| NOTES | | | | | | | | | | | | |
| Vasd=91m II; Exp C; I cantilever | CE 7-16; Vult=115mph hph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed sed; Lumber DOL=1.6 | DL=6.0psf; h=25ft; (velope) exterior zor ; end vertical left an | ne; d | | | | | | | Å | TATE OF | MISSOL |

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.4) Trace to be fully about the difference of the second secon
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

5) 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. SCOTT M. SEVIER NUMBER PE-2001018807 FF: STONAL ENGINE

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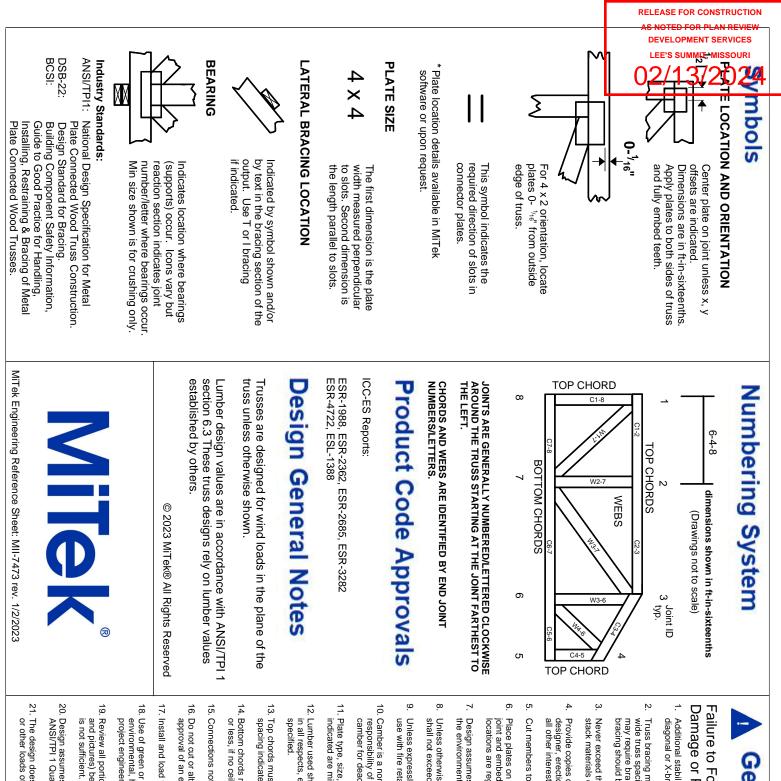


| | | | | | | | | | RELEASE | FOR CONSTRUCTION | | | | | | | | | | |
|--|---------------|---|--|---|-----------|-----------------|-------------------|----------------------|---------------|---|---|--|--|--|--|--|--|--|--|--|
| Job | Truss | | Truss Type | | Qty | Qty Ply Lot 176 | | т | | AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 159955162 | | | | | | | | | | |
| B240005 | V9 | | Valley | | 1 | 1 | Job Refer | ence (optiona | 1 5510 | 159955162 SUMMIT, MISSOURI | | | | | | | | | | |
| Wheeler Lumber, Waverly, KS - 66871, | | | Run: 8.71 S Jul 27 2023 Print: 8.710 S Jul 27 2023 MiTek Industries, Inc. Fr | | | | | | | | | | | | | | | | | |
| ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-RfC?PsB70Hq3NSgPqnL8w3uITXbGIWrCDoi794 z601 13/2024 | | | | | | | | | | | | | | | | | | | | |
| | | | | 6- | 1-12 | | | | | | | | | | | | | | | |
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| | | | 2x4 II | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | 2-0-13 | | | | | | | | | | | |
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| | | 4 | 6 | 1 | | | | | 3 | | | | | | | | | | | |
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| | | | 2: | x4 = | | | | 2x4 u | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | 6- | 1-12 | | | | | | | | | | | | | | | |
| Scale = 1:21.3 | | 1 | , | · · · · | | | | | - | | _ | | | | | | | | | |
| Loading TCLL (roof) | (psf) 25.0 | Spacing Plate Grip DOL | 2-0-0 1.15 | CSI TC 0 | .51 Vert | | in (loc) n/a - | l/defl L/e n/a 99 | | GRIP 197/144 | | | | | | | | | | |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC 0 | .28 Vert | (TL) | n/a - | n/a 99 | 9 | | | | | | | | | | | |
| BCLL BCDL | 0.0* 10.0 | Rep Stress Incr Code | YES IRC2018/TPI2014 | Matrix-P | .00 Horiz | 2(TL) (| 0.00 3 | n/a n/a | Weight: 15 lb | FT = 10% | | | | | | | | | | |
| LUMBER | | | | designed in accordance | | | | | | | | | | | | | | | | |
| TOP CHORD 2x4 SPF BOT CHORD 2x4 SPF | No.2 | | R802.10.2 ar | Residential Code sec nd referenced standar | | | | | | | | | | | | | | | | |
| WEBS 2x3 SPF No.2 LOAD CASE(S) Standard BRACING | | | | | | | | | | | | | | | | | | | | |
| TOP CHORD Structural wood sheathing directly applied or | | | | | | | | | | | | | | | | | | | | |
| 6-2-8 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc | | | | | | | | | | | | | | | | | | | | |
| bracing. REACTIONS (size) | | , 3=6-1-12 | | | | | | | | | | | | | | | | | | |
| | 1=-38 (LC | C 4), 3=-49 (LC 8) | | | | | | | | | | | | | | | | | | |
| | | C 1), 3=232 (LC 1) npression/Maximum | | | | | | | | | | | | | | | | | | |
| Tension | | | | | | | | | | | | | | | | | | | | |
| TOP CHORD 1-2=-68/46, 2-3=-181/80 BOT CHORD 1-3=-25/19 | | | | | | | | | | | | | | | | | | | | |
| NOTES 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) | | | | | | | | | | | | | | | | | | | | |
| Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; | | | | | | | | | | | | | | | | | | | | |
| cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 | | | | | | | | | | | | | | | | | | | | |
| 2) Truss designed for wind loads in the plane of the truss | | | | | | | | | | | | | | | | | | | | |
| only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult gualified building designer as per ANSI/TPI 1. | | | | | | | | | | | | | | | | | | | | |
| 3) Gable requires continuous bottom chord bearing. | | | | | | | | | | | | | | | | | | | | |
| 4) Gable studs spaced at 4-0-0 oc. 5) This truss has been designed for a 10.0 psf bottom 5) SEVIER | | | | | | | | | | | | | | | | | | | | |
| chord live load nonconcurrent with any other live loads. 6) * This truss has been designed for a live load of 20.0psf | | | | | | | | | | 0 | | | | | | | | | | |
| on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom | | | | | | | | | a color | aner | | | | | | | | | | |
| chord and any other members. 7) Provide mechanical connection (by others) of truss to | | | | | | | | | | 018807 | | | | | | | | | | |
| hearing plate complete senseling 29 lb uplift at joint | | | | | | | | | | | | | | | | | | | | |
| i and 49 lb uplin at jo | init 3. | | | | | | | | WANA | 1 and 49 lb uplift at joint 3. | | | | | | | | | | |

August 7,2023



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General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- 1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor1 bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- 5. Cut members to bear tightly against each other.
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- 11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- 12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- The design does not take into account any dynamic or other loads other than those expressly stated.