

RE: P240347-01 Roof - Osage Lot 85

Site Information:

Customer: Clayton Properties Project Name: P240347-01 Lot/Block: 85 Model: Address: 3723/3725 SW Knoxville CT City: Lee's Summit

Subdivision: Osage State: MO

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

No.

21

22

23

24

Seal#

159435163

159435164

159435165

159435166

Design Code: IRC2018/TPI2014 Wind Code: ASCE 7-16 Roof Load: 45.0 psf

Design Program: MiTek 20/20 8.6 Wind Speed: 115 mph Floor Load: N/A psf

This package includes 24 individual, dated Truss Design Drawi

Nia	C aal#		Data
No.	Seal#	Truss Name	Date
1	159435143	A1	7/11/2023
2	159435144	A2	7/11/2023
3	159435145	A3	7/11/2023
4	159435146	A4	7/11/2023
5	159435147	A5	7/11/2023
6	159435148	A6	7/11/2023
7	159435149	B1	7/11/2023
8	159435150	B2	7/11/2023
9	159435151	C1	7/11/2023
10	159435152	C2	7/11/2023
11	159435153	C3	7/11/2023
12	159435154	C4	7/11/2023
13	159435155	D1	7/11/2023
14	159435156	D2	7/11/2023
15	159435157	PB1	7/11/2023
16	159435158	PB2	7/11/2023
17	159435159	V1	7/11/2023
18	159435160	V2	7/11/2023
19	159435161	V3	7/11/2023
20	159435162	V4	7/11/2023

1001	Loud	• • • • • • •			
ings	and 0	Additio	nal Dra	wings.	

Truss Name	Date
V5	7/11/2023
V6	7/11/2023
V7	7/11/2023
V8	7/11/2023

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc under my direct supervision based on the parameters provided by . Truss Design Engineer's Name: Nathan Fox

My license renewal date for the state of Missouri is December 31, 2024. Missouri COA: 001193

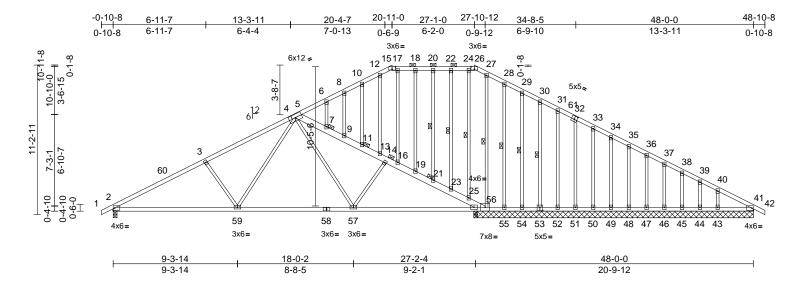
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which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



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

Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 85	
P240347-01	A1	Piggyback Base Structural Gable	2	1	Job Reference (optional)	159435143

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon Jul 10 12:58:34 ID:EmCXOiXYCML5IKd?OVTvI7yGxE5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:86.4

Plate Offsets (X, Y): [15:0-3-0,Edg	e], [26:0-3-0,Edge], [32:0-2	2-8,0-3-0], [53:0-2-	-8,0-3-0]								
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	Plate Grip DOL1.7Lumber DOL1.7Rep Stress IncrYE	15	CSI TC BC WB Matrix-S	0.75 0.95 0.35	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.20 -0.43 0.07	(loc) 2-59 2-59 56	l/defl >999 >771 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 312 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD WEBS	2x4 SP No.2 2x3 SPF No.2 2x3 SPF No.2 Structural wood sh 2-2-0 oc purlins, ep 2-0-0 oc purlins (10)-0 ⁻ 0 max.): 15-26, 5-56. y applied or 6-0-0 oc : 2-59 57-59	FORCES TOP CHORD	45: 47: 49: 51: 53: 55: (lb) - Maximu Tension 1-2=0/17, 2-3 5-6=-43/246, 10-12=0/296, 17-18=-13/24 20-22=-13/24 20-22=-13/24	=232 (LC 1), 2 =128 (LC 26), =120 (LC 1), 2 =120 (LC 26), =118 (LC 26), =96 (LC 26), 5 =33 (LC 9), 56 m Compressio	I4=81 (LC 1), 46=119 (LC 1), 48=120 (LC 1) 50=123 (LC 52=128 (LC 1), 52=128 (LC 1), 54=234 (LC 1), 55=-1735/35 8-10=0/277, 19, 15-17=-15 242, 242, 223, 27-28=(), 1), 1), 1), 1), 1),),) 9, 5/234, 0/312,	2) Wi Va Ke	balanceo design. nd: ASC sd=91mj =1.00; C	14-57 22-23 28-55 31-52 34-49 37-46 40-43 16-17 10-11 d roof li E 7-16; ph; TCI at. II; E	=-551/143, 20-21 =-67/38, 24-25= =-12/84, 29-54= =-92/56, 32-51= =-93/57, 38-48= =-93/57, 38-48= =-174/115, 18-19 =-169/20, 12-13= =-67/47, 8-9=-73 ve loads have be Vult=115mph (3 DL=6.0psf; BCDL ixp C; Enclosed;	49/21, 27-56=-367/24 87/60, 30-53=-98/56, 93/56, 33-50=-95/58, 93/57, 36-47=-93/57, 97/59, 39-44=-69/41, 9=-73/40, =-190/48, /46, 6-7=-60/41
	$\begin{array}{c} 44=20-1\\ 46=20-1\\ 48=20-1\\ 50=20-1\\ 52=20-1\\ 56=20-1\\ 56=20-1\\ Max Uplift 2=-226\\ 43=-91 (\\ 45=-42 (\\ 47=-41 (\\ 49=-41 (\\ 51=-41 (\\ 53=-46 $, 41=20-11-8, 43=20-11-8, 1-8, 45=20-11-8, 1-8, 47=20-11-8, 1-8, 49=20-11-8, 1-8, 51=20-11-8, 1-8, 55=20-11-8, 1-8, 55=20-11-8, 1-8	BOT CHORD	34-35=-64/19 36-37=-101/1 38-39=-144/2 40-41=-240/2 7-9=-1829/41 11-13=-1892/ 14-16=-20500 19-21=-2155/ 23-25=-2216/ 23-25=-2216/ 23-25=-274/1 54-55=-193/2 51-52=-193/2 49-50=-194/2 47-48=-194/2	6, 9-11=-1862 (457, 13-14=- (498, 16-19=-2 (510, 21-23=-2 (523, 25-56=- (523, 25-56=- (789, 55-56=- (44, 52-54=-1 (44, 52-54=-1 (44, 46-47=-1 (44, 44-47=-1)	198, 20/198, 70/189, 77, 5-7=-1799 2/436, 1977/479, 2125/504, 2187/516, 2226/522 20/1108, 193/244, 33/244, 34/244, 34/244, 34/244, 34/244,	0/395,	Int 27 34 ex me	erior (1) 1-0, Ext 1-14 to bosed ; e mbers a	4-1-8 to erior(2F 48-10-8 end veri nd forc DL=1.60	o 20-11-0, Exterio R) 27-1-0 to 34-1 3 zone; cantileven tical left and right	or(2E) 20-11-0 to -14, Interior (1) r left and right texposed;C-C for rreactions shown; 1.60 MISSOUTH NIEL X ALLER 042259

Continued on page 2 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. WARNING - Verify design parameters and KEAD KO LES ON THIS AND INCLUDED MILEK REFERENCE PAGE MIL-7473 rev. 17/2/2023 BEFORE USE. Design valid for use only with MITeK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria**, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)



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Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 85	
P240347-01	A1	Piggyback Base Structural Gable	2	1	Job Reference (optional)	159435143

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 3x4 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 225 lb uplift at joint 2, 162 lb uplift at joint 56, 29 lb uplift at joint 41, 509 lb uplift at joint 55, 23 lb uplift at joint 54, 46 lb uplift at joint 53, 39 lb uplift at joint 52, 41 lb uplift at joint 51, 42 lb uplift at joint 50, 41 lb uplift at joint 49, 41 lb uplift at joint 48, 41 lb uplift at joint 47, 41 lb uplift at joint 46, 42 lb uplift at joint 45, 28 lb uplift at joint 44 and 91 lb uplift at joint 43.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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

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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 **ANSITPTI Quality Criteria, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)



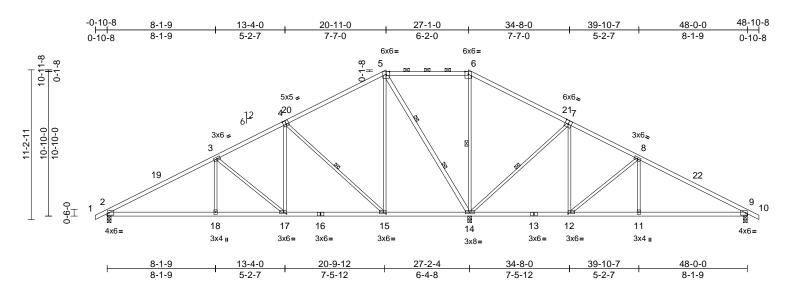
Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 85	
P240347-01	A2	Piggyback Base	6	1	Job Reference (optional)	159435144

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July 11,2023

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Plate Offsets ((X, Y): [4:0-2-8,0-3-4],	[7:0-3-0,0-3-4], [12:	0-2-8,0-1-	•8], [15:0-2-8,0-	1-8], [17:0-2-8	,0-1-8]							
Loading FCLL (roof) FCDL 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	18/TPI2014	CSI TC BC WB Matrix-S	0.94 0.76 0.91	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.13 -0.30 0.04	(loc) 2-18 2-18 14	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 232 lb	GRIP 197/144 FT = 20%
UMBER OP CHORD OT CHORD VEBS BRACING OP CHORD OP CHORD OT CHORD VEBS VEBS REACTIONS	2x4 SP No.2 *Excep 1650F 1.5E 2x4 SP No.2 2x3 SPF No.2 *Exce Structural wood she 2-2-0 oc purlins, exc 2-0-0 oc purlins (10- Rigid ceiling directly bracing. 1 Row at midpt 2 Rows at 1/3 pts (size) 2=0-3-8, § Max Horiz 2=204 (LC Max Uplift 2=-198 (L 14=-303 (Max Grav 2=1034 (L 14=2925 ((lb) - Maximum Com Tension 1-2=0/17, 2-3=-1514	t* 1-4,7-10:2x4 SP ept* 14-5:2x4 SP No. athing directly applie con max.): 5-6. applied or 6-0-0 oc 4-15, 6-14, 7-14 5-14 9=0-3-8, 14=0-3-8 C 12), 9=-184 (LC 1 LC 12) LC 25), 9=689 (LC 20 (LC 1) hpression/Maximum 1/257, 3-5=-926/229,	2 2 2 3 4 3), 6 5 3), 7 8), 7	 Wind: ASCE Vasd=91mp Ke=1.00; Ca exterior zond Interior (1) 4 27-1-0, Exte 34-1-14 to 4 exposed; end members and Lumber DOI Provide ade This truss ha chord live lo All bearings capacity of 5 Provide med bearing plate joint 2, 303 I This truss is International R802.10.2 a Graphical put 	57-16; Vult=11 h; TCDL=6.0ps it. II; Exp C; Er e and C-C Exte -1-8 to 20-11-0 rior(2R) 27-1-0 8-10-8 zone; c nd vertical left a id forces & MW _=1.60 plate gr quate drainage as been design ad nonconcurr are assumed t i65 psi. chanical connet e capable of wib b uplift at joint	sf; BCDL=6. hclosed; MW prior(2E) -0 (), Exterior(2I) 0 to 34-1-14, antilever left and right exp /FRS for read ip DOL=1.60 e to prevent 1 hed for a 10.1 ent with any o be SP No. ction (by oth ithstanding 1 14 and 184 ccordance w ode sections standard AN ation does no	Dpsf; h=35ft; FRS (envelo 0-8 to 4-1-8, E) 20-11-0 to Interior (1) and right iosed;C-C fo ctions showr 0) water pondin 0 psf bottom other live loa 2 crushing ers) of truss 98 lb uplift at joi ith the 2018 R502.11.1 at ISI/TPI 1.	r n; g. ads. to t nt 9. and				Weight: 232 lb	11 - 2078
BOT CHORD	5-6=0/834, 6-8=-184 9-10=0/17 2-18=-312/1230, 17- 15-17=-143/748, 14- 12-14=-340/183, 11-	-18=-312/1230, -15=-152/328,		bottom chor OAD CASE(S)							B	STATE OF M	AISSOLA
WEBS	9-11=-102/585 3-18=0/297, 3-17=-6 4-15=-911/325, 5-15 5-14=-1467/285, 6-1 7-14=-927/326, 7-12 8-12=-651/219, 8-11	5=-137/756, 4=-882/186, 2=-60/514,	04,							•	R	Thanks	BER TO
NOTES 1) Unbalance this desigr	ed roof live loads have n.	been considered for	r								Ø	PE-2022	124

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 toulsable personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, 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)

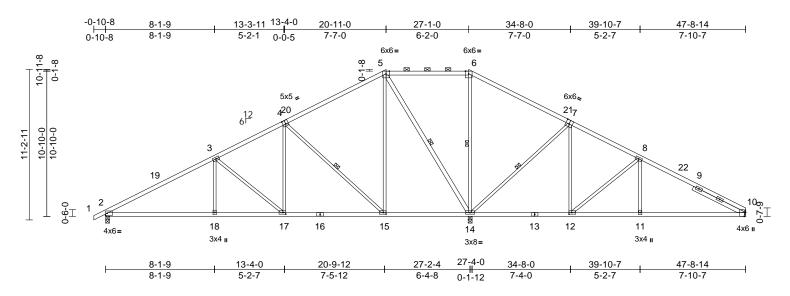
Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 85	
P240347-01	A3	Piggyback Base	2	1	Job Reference (optional)	159435145

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July 11,2023

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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	0.89	Vert(LL)	-0.13	2-18	>999	240	MT20	197/144
CDL	10.0	Lumber DOL Rep Stress Incr	1.15 YES		BC WB	0.77	Vert(CT) Horz(CT)	-0.31	2-18 10	>999 n/a	180 n/a		
CDL	0.0 10.0	Code		8/TPI2014	Matrix-S	0.96		0.05	10	n/a	n/a	Weight: 236 lb	FT = 20%
CDL	10.0	Code	160201	0/1712014	Matrix-3	-	-					Weight. 230 lb	FT = 20 / 6
DT CHORD EBS LIDER RACING DP CHORD DT CHORD EBS EACTIONS (S M M DRCES	Right 2x4 SP No.2 - Structural wood she 2-2-0 oc purlins, exc 2-0-0 oc purlins (10) Rigid ceiling directly bracing. 1 Row at midpt size) 2=0-3-8, fax Horiz 2=209 (Li fax Uplift 2=-212 (Li 14=-270)	ept* 14-5:2x4 SP No. - 4-4-0 athing directly applie ept -0-0 max.): 5-6. applied or 6-0-0 oc 6-14, 5-14, 7-14, 4- 10= Mechanical, 14= C 12) C 12), 10=-202 (LC (LC 12) -C 25), 10=696 (LC 2 (LC 1)	ed or 3) 4) 15 5) 0-3-8 6) 13), 7)	Vasd=91mp Ke=1.00; Cr exterior zon Interior (1) 4 27-1-0, Exte 34-1-14 to 4 exposed ; e members au Lumber DO Provide ade All plates ar This truss h chord live lo Bearings ar capacity of so 656 psi. Refer to girro Provide me bearing plat	57-16; Vult=115 h; TCDL=6.0psi at. II; Exp C; Enc e and C-C Exter -1-8 to 20-11-0, rrior(2R) 27-1-0 7-8-14 zone; ca nd vertical left a nd forces & MW/ _=1.60 plate grij quate drainage e 3x6 MT20 unli as been designe ad nonconcurre e assumed to be 365 psi, Joint 14 ter(s) for truss to chanical connec e capable of wit Ib uplift at joint	; BCDL=6.(closed; MW ior(2E) -0-1 Exterior(2E to 34-1-14, ntilever left nd right exp FRS for rea o DOL=1.60 to prevent v ess otherwised for a 10.0 to prevent v ess otherwised for a 10.0 SP No.2 cl o truss conr tion (by oth hstanding 2	Dpsf; h=35ft; FRS (envelo 0-8 to 4-1-8, E) 20-11-0 to Interior (1) and right iosed;C-C fo ctions shown water pondin se indicated. D psf bottom other live loa > No.2 crush rushing capa elections. ers) of truss 02 lb uplift a	r n; ng ng city					
OP CHORD	5-6=0/665, 1-2=0/17 3-5=-973/270, 6-8=-	364/860, 8-10=-913/	9) 318	This truss is Internationa	designed in acc Residential Co	de sections	R502.11.1 a	ind					m
	2-18=-344/1270, 17 15-17=-176/790, 14 12-14=-285/252, 11 10-11=-167/718	-15=-70/250, -12=-167/718,)) Graphical p	nd referenced s urlin representat ation of the purl d.	ion does no	ot depict the	size			A	STATE OF M	AISSOL
OTES	8-11=0/287, 5-14=- 3-17=-619/217, 7-12 7-14=-925/324, 8-12 4-15=-908/324	,	501, L	DAD CASE(S)	Standard							FOZ	A Sta



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 85	
P240347-01	A4	Piggyback Base	2	1	Job Reference (optional)	159435146

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon Jul 10 12:58:38 ID:SN8pPrD2hT7xgLsjSx71GYyGxNY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

20-11-0 8-1-9 19-9-12 27-1-0 34-8-0 47-8-14 13-4-0 39-10-7 5-2-7 5-2-7 8-1-9 1-1-4 7-7-0 7-10-7 6-5-12 6-2-0 6x6= 6x6= 3x4 🛛 10-11-8 0-1-8 6 7 5x5 ዾ 6x6**≈** 4²⁵ 12 6 268 10-10-0 11-2-11 10-10-0 3x6👟 3x6 ≠ 3 9 27 ^{3x6}* 10 24 18 17 3x6👟 TO. 0-9-2 16 0-9-0 19 5-0 L I 22 21 20 3x4= 14 13 12 4x6 II 4x6= 15 4x6= 3x4 II 3x6= 3x6= 3x6= 3x6= 3x4 II 4x6= 5x8₁ 3x8= 2 27-4-0 23-5-12 8-1-9 13-4-0 19-11-8 32-0-0 34-8-0 39-10-7 47-8-14 23-4-0 <u>27-2-4 ∥ 32-0-0</u> 3-8-80-1-12 4-8-0 -# 8-1-9 5-2-7 6-7-8 3-4-8 2-8-0 5-2-7 7-10-7 0-1-12

Scale = 1:85.9

Plate Offsets (X, Y): [4:	4:0-2-8,0-3-0], [8:0-3-0,Edge],	, [11:0-3-10,Edge], [13:0-2-8,0-1-8], [21:0	-2-8,0-1-8]
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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 IRC201	8/TPI2014	CSI TC BC WB Matrix-S	0.91 0.72 0.91	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.13 -0.30 0.08	(loc) 2-22 2-22 15	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 257 lb	GRIP 197/144 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD BOT CHORD 1 Row at midp WEBS JOINTS REACTIONS	2x4 SP No.2 *Excep 1.5E 2x4 SP No.2 *Excep Right 2x4 SP No.2 - Structural wood she 2-2-0 oc purlins, exc 2-0-0 oc purlins, exc 2-20-0 cc purlins, exc 2-20-3-8, ' Max Horiz 2=208 [LC 15=-2891 (lb) - Maximum Com Tension 1-2=0/17, 2-3=-1376 5-6=-217/494, 6-7=0 9-11=-884/640 2-22=-385/1109, 21'- 19-21=-205/604, 18 5-18=-288/208, 17-1	ht* 4-1,8-11:2x4 SP 16 pt* 15-6:2x4 SP No.2 - 4-4-0 athing directly applied to 2 applied or 6-0.0 oc 7-15, 15-23, 8-15, 4- 11= Mechanical, 15=(C 12), 11=-358 (LC 1 LC 12) C 22), 11=-358 (LC 1 LC 12) C 22), 11=682 (LC 26 (LC 1) apression/Maximum 6/391, 3-5=-774/467, 0/903, 7-9=-333/1060 -22=-385/1109, -19=-168/668, 18=-98/31, 16-17=-15 -69/26, 13-15=-509/2 -12=-450/694 378/77, 9-12=0/290,	1) 350F 2) 2 d or 19 4) 5) 0-3-8 6) 3), 7)), 8) 9) , 10 /11, 25	 Unbalanced i this design. Wind: ASCE Vasd=91mpf Ke=1.00; Cat exterior zone Interior (1) 4- 27-1-0, Exter 34-1-14 to 47 exposed ; en members and Lumber DOL Provide adec All plates are This truss ha chord live loa Bearings are capacity of 51 of 565 psi. Refer to girdd bearing plate joint 11, 221 2. This truss is of International R802.10.2 ar Graphical pu 	roof live loads hav roof live loads hav 7-16; Vult=115mp 1; TCDL=6.0psf; B 1: II; Exp C; Enclos and C-C Exterior 1-8 to 20-11-0, Es ior(2R) 27-1-0 to 1 -7-8-14 zone; cantil d vertical left and 1 forces & MWFR =1.60 plate grip D juate drainage to 1 3x6 MT20 unless s been designed 1 d nonconcurrent 1 assumed to be: J 355 psi, Joint 15 SI er(s) for truss to tr nanical connection capable of withst Ib uplift at joint 15 designed in accor Residential Code d referenced star rlin representatior tion of the purlin a	ch (3-sec CDL=6. cDL=6. sed; MW (2E) -0 tterior(21 34-1-14, ever left right exg S for rea OL=1.6 brevent s or a 10.0 with any oint 2 SI P No.2 c uss conr h (by oth anding 3 and 233 dance w sections ndard AN	cond gust) Opsf; h=35ft; FRS (envelop 10-8 to 4-1-8, E) 20-11-0 to Interior (1) and right oosed;C-C for ictions shown water ponding se indicated. D psf bottom other live loa P No.2 crushi rushing capad hections. ers) of truss t 3 lb uplift at jo ith the 2018 c R502.11.1 a SI/TPI 1.	be) ; g. ds. ng city o int nd				STATE OF M STATE OF M NATHA FOI	MISSOLUP.
NOTES	4-21=-68/507, 3-21= 8-15=-922/318, 9-13 4-19=-822/275, 6-18		197,								W.	PE-20220	L ENGINE

July 11,2023

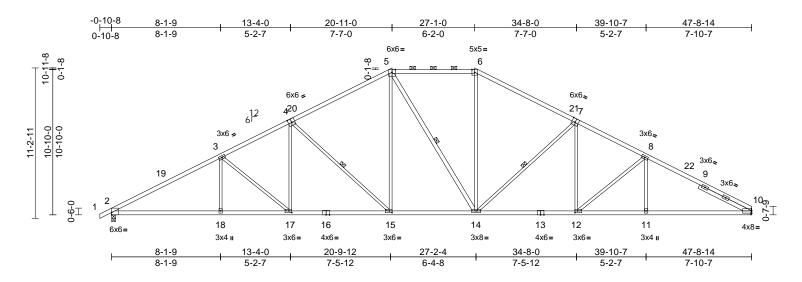
Page: 1

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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 toulsable personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, 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	Roof - Osage Lot 85	
P240347-01	A5	Piggyback Base	10	1	Job Reference (optional)	159435147

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon Jul 10 12:58:38 ID:waiCdBDgSnFoHVRv0eeGplyGxNX-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:85.9

		1		-					-			1	
oading	(psf)	Spacing	2-0-0		CSI	0.07	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
CLL (roof)	25.0	Plate Grip DOL Lumber DOL	1.15 1.15		TC BC	0.97	Vert(LL) Vert(CT)		15-17 15-17	>999 >999	240 180	MT20	197/144
CDL CLL	10.0 0.0	Rep Stress Incr	YES		WB	0.82 0.81	Horz(CT)	-0.53 0.23	10-17	>999 n/a	n/a		
CDL	10.0	Code		8/TPI2014	Matrix-S	0.01	1012(01)	0.23	10	n/a	n/a	Weight: 236 lb	FT = 20%
	10.0	0000	110201									Wolght. 200 lb	11-2070
	(size) 2=0-3-8, 1 Max Horiz 2=209 (LC Max Uplift 2=-329 (L Max Grav 2=2214 (L	00F 2.0E ept* 14-5:2x4 SP No. - 4-4-0 athing directly applie t-0 max.): 5-6. applied or 9-5-7 oc 5-14, 7-14, 4-15 10= Mechanical C 16) C 12), 10=-301 (LC - C 1), 10=2141 (LC	2 ed, 3) 4) 5) 13) 6) 7)	Vasd=91mp Ke=1.00; Ca exterior zonn Interior (1) 4 27-1-0, Exte 34-1-14 to 4 exposed ; en members ar Lumber DOI Provide ade This truss ha chord live lo Bearings are crushing cap Refer to girc Provide mec bearing plate	7-16; Vult=115 h; TCDL=6.0psf it. II; Exp C; Enc e and C-C Exter -1-8 to 20-11-0, rior(2R) 27-1-0 7-8-14 zone; ca nd vertical left an d forces & MWI _=1.60 plate grip quate drainage as been designe ad nonconcurre e assumed to be boacity of 565 psi er(s) for truss to thanical connect e capable of with	BCDL=6.1 losed; MW for(2E) -0-7 Exterior(2I) o 34-114, thilever left ad right exp RS for read DOL=1.60 o prevent to prevent this cont t with any cont 2 SI ftruss cont ion (by oth astanding 3	Dpsf; h=35ft; FRS (envelop 0-8 to 4-1-8, E) 20-11-0 to Interior (1) and right vosed;C-C for ctions shown over ponding p sf bottom other live loa P 1650F 1.5E nections. ers) of truss to	; j. ds.					
ORCES	(lb) - Maximum Com Tension 1-2=0/17, 2-3=-4010 5-6=-2386/554, 6-8= 8-10=-3898/580)/580, 3-5=-3462/598	8) 3, 9)	This truss is Internationa R802.10.2 a	329 lb uplift at jo designed in acc Residential Co nd referenced s urlin representat	ordance w de sections tandard AN	R502.11.1 a SI/TPI 1.						
OT CHORD	2-18=-561/3433, 17- 15-17=-401/3019, 14 12-14=-330/3010, 11 10-11=-404/3340	4-15=-175/2388,	LC	or the orient bottom chor OAD CASE(S)		n along the	e top and/or					TATE OF M	AISSO
/EBS OTES) Unbalance this design	3-18=0/291, 5-15=-1 8-11=0/270, 5-14=-2 3-17=-547/206, 7-12 7-14=-851/319, 8-12 4-15=-860/321 ed roof live loads have h.	282/275, 4-17=-53/46 2=-44/425, 2=-452/190,	66,							1		NATHA FOI PE-20220	X CAR
											Y	ESSIONA	L ENGLIS

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 toulsable personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, 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)

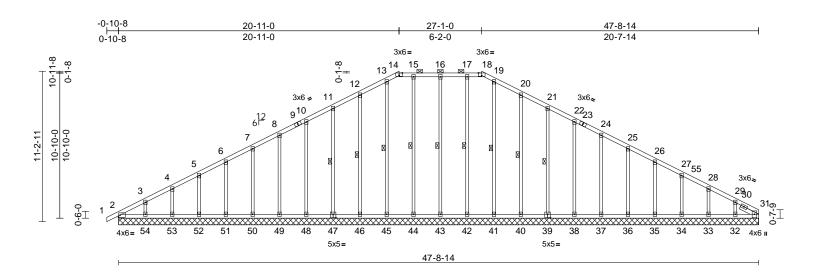


July 11,2023

Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 85	
P240347-01	A6	Piggyback Base Supported Gable	2	1	Job Reference (optional)	159435148

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon Jul 10 12:58:39 ID:JbPUB4NmDf0vUSJtFFIELayGxJT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:85.9

Plate Offsets (X, Y): [14:0-3	8-0,Edge]	, [18:0-3-0,Edge], [3	1:0-3-2,0-1-12], [39:0-	2-8,0-3-0],	[47:0-2-8,0-3-0]							
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/TPI2014	CSI TC BC WB Matrix-	0.13 0.05 0.18 S	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.02	(loc) - - 31	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 267 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS SLIDER BRACING TOP CHORD BOT CHORD WEBS	2x4 SP No.2 2x3 SPF No Right 2x4 SF Structural w 6-0-0 oc pur 2-0-0 oc pur Rigid ceiling bracing. 1 Row at min	2 .2 P No.2 rood shea rlins, exc rlins (6-0 g directly directly	athing directly applie ept -0 max.): 14-18. applied or 10-0-0 oc 16-43, 17-42, 19-41, 20-40, 21-39, 15-44, 13-45, 12-46, 11-47		(lb) - Ma:	2=178 (LC 21), 3 32=179 (LC 26), 34=180 (LC 26), 36=180 (LC 26), 38=180 (LC 26), 40=180 (LC 1), 4 42=177 (LC 26), 44=177 (LC 25), 46=180 (LC 1), 4 48=180 (LC 2), 50=180 (LC 1), 5 52=180 (LC 1), 5 54=181 (LC 25), ximum Compression	33=182 (LC 35=180 (LC 37=180 (LC 39=180 (LC 11=174 (LC 2 43=183 (LC 45=176 (LC 45=176 (LC 49=180 (LC 11=180 (LC 2 3=179 (LC 2	1), 1), 1), 26), 26), 26), 22), 22), 25), 1), 25), 25), 25),	,		19-41: 21-39: 24-37: 26-35: 28-33: 15-44: 12-46: 10-48: 6-51= 3-54= d roof li	-140/97, 5-52=-1 -138/171	140/112, =-140/96, =-140/97, =-139/106, 2=-137/191, =-136/8,
	32 34 36 36 36 36 36 42 42 44 46 55 52 52 52 52 52 52 52 52 52 52 53 34 35 35 35 35 35 35 35 35 35 35 35 35 35	2=47-8-1 4=47-8-1 6=47-8-1 8=47-8-1 0=47-8-1 2=47-8-1 2=47-8-1 0=47-8-1 0=47-8-1 0=47-8-1 0=47-8-1 0=209 (LC =-26 (LC =-2		5), 3), 3), 3), 3), 2), 2), 2),	4-5=-181 7-8=-84/ 11-12=-1 13-14=-1 15-16=-1 17-18=-1 19-20=-1 24-25=-5 27-28=-1 29-31=-2 2-54=-58 50-51=-2 50-51=-2 48-49=-5 48-49=-5 48-49=-5 48-49=-5 48-49=-5 48-49=-5 38-40=-5 36-37=-5 36-37=-5 34-35=-5	7, 2-3=-295/92, 3-4 /97, 5-6=-136/110 162, 8-10=-71/190 06/287, 12-13=-1; 26/341, 14-15=-1 18/342, 16-17=-1 19/341, 18-19=-1; 27/347, 20-21=-10 8/234, 22-24=-69, 66/126, 25-26=-56, 00/27, 28-29=-144 32/67 9/225, 53-54=-59/2 99/225, 53-54=-59/2 99/225, 44-45=-59, 99/225, 44-45=-59, 99/225, 44-45=-59, 99/225, 44-45=-59, 99/225, 37-38=-59, 99/225, 37-38=-59, 99/225, 31-32=-59,	, 6-7=-110/1. , 10-11=-88/ 27/347, 19/341, 8/342, 26/341, 16/287, 180, 72, 26-27=-7 3/43, 25, 225, 225, 225, 225, 225, 225, 225	234,		۲ پ	A A A	STATE OF J STATE OF J NATHA FO PE-2022	BER 042259

Continued on page 2 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. WARNING - Verify design parameters and KEAD KO LES ON THIS AND INCLUDED MILEK REFERENCE PAGE MIL-7473 rev. 17/2/2023 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)



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 85	
P240347-01	A6	Piggyback Base Supported Gable	2	1	Job Reference (optional)	159435148

- 2) Wind: ASCE 7-16: Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 4-0-0, Exterior(2N) 4-0-0 to 20-11-0, Corner(3R) 20-11-0 to 26-0-0, Exterior(2N) 26-0-0 to 27-1-0, Corner(3R) 27-1-0 to 32-0-0, Exterior(2N) 32-0-0 to 47-8-14 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss 3) 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. 4)
- All plates are 3x4 MT20 unless otherwise indicated. 5) Gable requires continuous bottom chord bearing. 6)
- 7) Gable studs spaced at 2-0-0 oc.
- 8)
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. All bearings are assumed to be SP No.2 crushing 9)
- capacity of 565 psi. 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 2, 58 lb uplift at joint 43, 9 lb uplift at joint 42, 74 lb uplift at joint 40, 60 lb uplift at joint 39, 61 lb uplift at joint 38, 61 lb uplift at joint 37, 61 lb uplift at joint 36, 61 lb uplift at joint 35, 62 lb uplift at joint 34, 59 lb uplift at joint 33, 103 lb uplift at joint 32, 12 lb uplift at joint 44, 71 lb uplift at joint 46, 61 lb uplift at joint 47, 61 lb uplift at joint 48, 61 lb uplift at joint 49, 61 lb uplift at joint 50, 61 lb uplift at joint 51, 61 lb uplift at joint 52, 61 lb uplift at joint 53 and 87 lb uplift at joint 54.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord

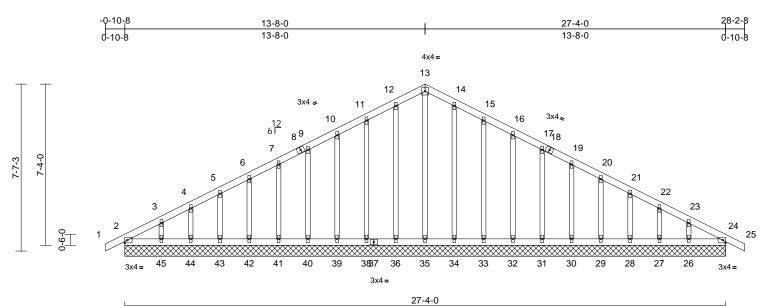
LOAD CASE(S) Standard

Run: 8,63 S Apr 6 2023 Print: 8,630 S Apr 6 2023 MiTek Industries, Inc. Mon Jul 10 12:58:39 ID:JbPUB4NmDf0vUSJtFFIELayGxJT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 2



Job		Truss	Truss Type	Qty	Ply	Roof - Osage Lot 85	
P240347	7-01	B1	Common Supported Gable	2	1	Job Reference (optional)	159435149

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon Jul 10 12:58:40 ID:UdTxDbh?e9q_8iTwPnntXZyGxKM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:52.4													'
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	0.07	Vert(LL)	n/a		- n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.03	Vert(CT)	n/a		- n/a	999		
BCLL	0.0	Rep Stress Incr	YES		WB	0.18	Horz(CT)	0.01	24	4 n/a	n/a		
BCDL	10.0	Code	IRC2018/TP	2014	Matrix-S							Weight: 145 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x3 SPF No.2 Structural wood s 6-0-0 oc purlins. Rigid ceiling direc bracing. (size) 2=27-4 27=27- 33=27- 36=27- 40=27- 40=27- 43=27- Max Uplift 2=-26 (LC 13) (LC 13) (LC 13) (LC 13) (LC 12) (LC 12) (LC 12) (LC 12) (LC 12) (LC 12) (LC 12) (LC 12) (LC 12) (26=130) 26=130) 28=121 30=120 32=122 34=122 36=121 39=120 41=120	heathing directly applie tly applied or 10-0-0 oc -0, 24=27-4-0, 26=27-4 4-0, 28=27-4-0, 29=27- 4-0, 31=27-4-0, 35=27- 4-0, 34=27-4-0, 35=27- 4-0, 34=27-4-0, 39=27- 4-0, 44=27-4-0, 45=27- (LC 13) LC 8), 24=-4 (LC 9), 26 , 27=-40 (LC 13), 32=- , 32=-41 (LC 13), 32=- , 33=-41 (LC 13), 34=- , 36=-27 (LC 12), 34=- , 36=-27 (LC 12), 44=- , 45=-63 (LC 12) (LC 1), 24=150 (LC 1), 0 (LC 26), 31=120 (LC 20) 0 (LC 1), 32=120 (LC 20) 0 (LC 1), 33=121 (LC 20) 0 (LC 25), 38=121 (LC 20) 0 (LC 1), 40=120 (LC 1) 0 (LC 25), 32=120 (LC 20) 0 (LC 1), 44=117 (LC 20) 0 (LC 1), 44=117 (LC 20) 0 (LC 25), 32=120 (LC 20) 0 (LC 25) 0 (LC 10) 0 (LC 25) 0 (LC 20) 0 (LC 25) 0 (d or -0, BOT C 4-0, 4-0, 4-0, 4-0, 4-0, 4-0, 4-0, 4-0,	balanced s design. nd: ASCI sd=91mp =1.00; C terior zon terior(2N -8-0, Exte and righ posed;C-	13-14=-89/255, 1 13-16=-66/191, 1 17-19=-41/119, 1 21-22=-51/20, 22 24-25=0/17, 1-2= 3-4=-131/67, 4-5 6-7=-59/107, 7-9 10-11=-66/191, 1 12-13=-89/255 2-45=-40/160, 44 43-44=-40/160, 44 43-44=-40/160, 3 36-38=-40/160, 3 30-31=-40/160, 2 26-27=-40/160, 2 26-27=-40/160, 2 26-27=-40/160, 2 13-35=-148/26, 1 10-39=-93/64, 5-4 3-45=-99/122, 14 16-32=-93/64, 5-4 3-45=-99/122, 14 16-32=-93/64, 21 23-26=-99/119 d roof live loads ha E 7-16; Vult=115m ph; TCDL=6.0psf; at. II; Exp C; Enclue the and C-C Corner 0, 4-4-0 to 13-8-0, erior(2N) 18-8-0 to the exposed ; end v C for members ar hown; Lumber DO	6-17=-53 9-20=-34 2-23=-74/2 00/7, 2-3 =-99/76, 5 =-50/126, 1-12=-80 1-45=-40/' 12-43=-40 0-41=-40 88-39=-40 03-34=-40 03-34=-40 03-34=-40 03-34=-40 03-34=-96 40=-93/64 3-94-82, 1-24=-96/4 2-36=-96 40=-93/64 3-94/82, 1-34=-96/4 '-31=-93/6 -28=-94/8 ave been nph (3-see BCDL=6, osed; IMW, r(3E) -0-1 Corner(3F) 0-28-2-8 z ertical left of forces	 /155, /83, 20-21=-3 /22, 23-24=-12 -181/64, 5-6=-76/89, 9-10=-53/15: //230, /160, /160,<td>95/74, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,</td><td>oi si si</td><td>nly. For s ee Standar r consult c III plates a able stud: his truss h hord live li II bearings apacity of rovide me earing pla apacity of rovide me earing pla , 27 lb upl plift at join 4, 48 lb up plift at join 9, 41 lb up plift at join his truss is internationar</td><td>tuds e) rrd Indu qualifieire f 1.5x rifes co s space rifes to space rifes</td><td>posed to wind (n istry Gable End E d building designed 4 MT20 unless of thinuous bottom of ad at 1-4-0 oc. an designed for a nconcurrent with - ssumed to be SP i. al connection (by able of withstandii int 36, 46 lb uplift 1 lb uplift at joint 4 oint 42, 41 lb uplift 1 lb uplift at joint 4 oint 42, 41 lb uplift 1 lb uplift at joint 4 oint 33, 40 lb uplift 1 lb uplift at joint 4 oint 28, 40 lb uplift at joint 28, 40 lb uplift at joint 28, 40 lb uplift the uplift at joint 4 cenced standard where the the the the the percent of the the the the of the the the the the the of the the the the the the the the the the the the the of the the the the the the the the the of the the the the the the the the the the</td><td>10.0 psf bottom any other live loads. No.2 crushing others) of truss to ng 26 lb uplift at joint at joint 38, 41 lb 40, 41 lb uplift at joint ft at joint 43, 40 lb 45, 21 lb uplift at joint ft at joint 27, 57 lb nt 24. with the 2018 ions R502.11.1 and d ANSI/TPI 1.</td>	95/74, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,	oi si	nly. For s ee Standar r consult c III plates a able stud: his truss h hord live li II bearings apacity of rovide me earing pla apacity of rovide me earing pla , 27 lb upl plift at join 4, 48 lb up plift at join 9, 41 lb up plift at join his truss is internationar	tuds e) rrd Indu qualifieire f 1.5x rifes co s space rifes to space rifes	posed to wind (n istry Gable End E d building designed 4 MT20 unless of thinuous bottom of ad at 1-4-0 oc. an designed for a nconcurrent with - ssumed to be SP i. al connection (by able of withstandii int 36, 46 lb uplift 1 lb uplift at joint 4 oint 42, 41 lb uplift 1 lb uplift at joint 4 oint 42, 41 lb uplift 1 lb uplift at joint 4 oint 33, 40 lb uplift 1 lb uplift at joint 4 oint 28, 40 lb uplift at joint 28, 40 lb uplift at joint 28, 40 lb uplift the uplift at joint 4 cenced standard where the the the the the percent of the the the the of the the the the the the of the the the the the the the the the the the the the of the the the the the the the the the of the	10.0 psf bottom any other live loads. No.2 crushing others) of truss to ng 26 lb uplift at joint at joint 38, 41 lb 40, 41 lb uplift at joint ft at joint 43, 40 lb 45, 21 lb uplift at joint ft at joint 27, 57 lb nt 24. with the 2018 ions R502.11.1 and d ANSI/TPI 1.
FURGES	(ID) - Maximum C	ompression/iviaximum										CONA CONA	DITES -

July 11,2023

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Continued on page 2 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design in 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 idamage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of frusses 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)

Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 85	
P240347-01	B1	Common Supported Gable	2	1	Job Reference (optional)	159435149
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, Run: 8.63 S Apr				30 S Apr 62	2023 MiTek Industries, Inc. Mon Jul 10 12:58:40	Page: 2

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon Jul 10 12:58:40 ID:UdTxDbh?e9q_8iTwPnntXZyGxKM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

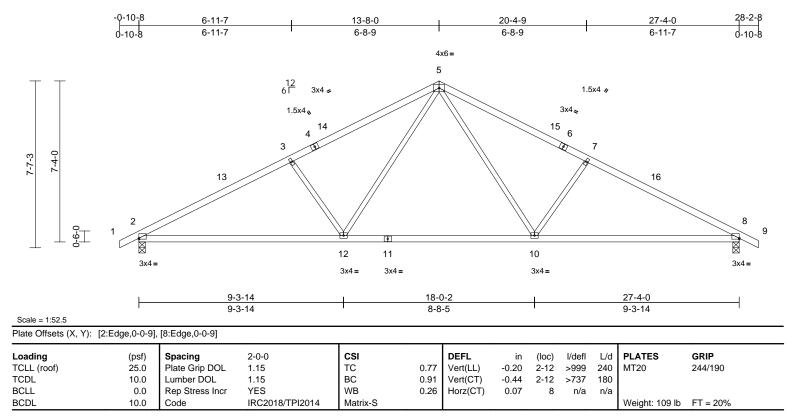
LOAD CASE(S) Standard

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ſ	Job	Truss	Truss Type Qty Ply Roof - Osage Lot 85		Roof - Osage Lot 85		
	P240347-01	B2	Common	4	1	Job Reference (optional)	159435150

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon Jul 10 12:58:40 ID:77cC2GCYqAwXzi_Rd5akSLyGxKz-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



LUMBER		
TOP CHORD	2x4 SP N	0.2
BOT CHORD	2x4 SP N	0.2
WEBS	2x3 SPF I	No.2
BRACING		
TOP CHORD	Structural	wood sheathing directly applied or
	2-6-11 oc	purlins.
BOT CHORD	Rigid ceili	ing directly applied or 10-0-0 oc
	bracing.	
REACTIONS	(size)	2=0-3-8, 8=0-3-8
	Max Horiz	2=-137 (LC 13)
	Max Uplift	2=-211 (LC 12), 8=-211 (LC 13)
	Max Grav	2=1288 (LC 1), 8=1288 (LC 1)
FORCES	(lb) - Max	imum Compression/Maximum
	Tension	·
TOP CHORD	1-2=0/17,	2-3=-2072/392, 3-5=-1821/403,
	5-7=-182	1/403, 7-8=-2072/392, 8-9=0/17
BOT CHORD	2-12=-328	8/1763, 10-12=-86/1180,
	8-10=-263	3/1763

- WEBS 5-10=-263/1763 5-10=-154/672, 7-10=-451/287, 5-12=-153/672, 3-12=-451/287
- NOTES
- Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 13-8-0, Exterior(2R) 13-8-0 to 18-8-0, Interior (1) 18-8-0 to 28-2-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 211 lb uplift at joint 2 and 211 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.

LOAD CASE(S) Standard



Page: 1

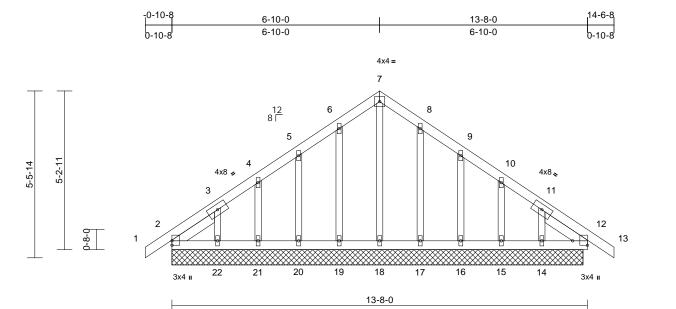
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 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/TPH Claulity 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	Roof - Osage Lot 85	
P240347-01	C1	Common Supported Gable	1	1	Job Reference (optional)	159435151

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon Jul 10 12:58:40 ID:pEeiREjqUZILYPLYj_L6IhyGxLc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:37.9

Plate Offsets (X, Y): [12:Edge,0-5-14]

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC BC WB Matrix-S	0.06 0.03 0.07	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 12	l/defl n/a n/a n/a	L/d 999 999 n/a		GRIP 197/144 FT = 20%
	10.0	oode		Matrix 0							Weight. 70 lb	11 = 2070
LUMBER TOP CHORD BOT CHORD OTHERS SLIDER BRACING TOP CHORD BOT CHORD	2x4 SP No.2 2x3 SPF No.2 Left 2x4 SP No.2 1-8-5 Structural wood she 6-0-0 oc purlins.	1-8-5, Right 2x4 SP No eathing directly applied o y applied or 10-0-0 oc	1) Unbalance this design or 2) Wind: ASC Vasd=91m Ke=1.00; 0 exterior zo	CE 7-16; Vult=115mp hph; TCDL=6.0psf; E Cat. II; Exp C; Enclos ne and C-C Corner(11-14=-1 0=-99/10 we been ph (3-sea 3CDL=6. sed; MW (3E) -0-1	02/129, 06, 4-21=-100 considered fo cond gust) 0psf; h=35ft; /FRS (envelo 0-8 to 4-2-0,	D/111, Dr					
REACTIONS	(size) 2=13-6-4 15=13-6- 18=13-6- 21=13-6- Max Horiz 2=-144 (I Max Uplift 2=-39 (Ld (LC 13), (LC 13), (LC 12), (LC 12), Max Grav 2=159 (L 14=132 (16=128 (18=119 (C 8), 12=-2 (LC 9), 14=- 15=-52 (LC 13), 16=-57 17=-42 (LC 13), 19=-45 20=-56 (LC 12), 21=-52 22=-80 (LC 12) C 20), 12=154 (LC 1), LC 20), 15=125 (LC 20) LC 20), 19=131 (LC 19) LC 21), 21=126 (LC 19)	 H1-10-0, E Ieft and rig exposed;C reactions s DOL=1.60 Truss des only. For see Stand or consult All plates a Gable stuc Ghable stucs Chord live 	igned for wind loads studs exposed to win ard Industry Gable E qualified building de are 1.5x4 MT20 unle Is spaced at 1-4-0 o has been designed f load nonconcurrent is are assumed to be	to 14-6- rtical left d forces =1.60 pl s in the p nd (norm End Deta signer a ess other c. for a 10. with any	3 zone; cantil and right & MWFRS fo ate grip lane of the tr ial to the face ils as applica s per ANSI/T wise indicate 0 psf bottom other live loa	uss e), able, PI 1. ed.				TATE OF	MISSOL
FORCES		npression/Maximum	8) Provide m	echanical connection						A	S NATH	ANIEL E
TOP CHORD	Tension 7-8=-91/176, 8-9=-6 10-11=-58/29, 11-1 1-2=0/16, 2-3=-140 4-5=-87/72, 5-6=-77	56/126, 9-10=-49/59, 2=-112/57, 12-13=0/16, /112, 3-4=-96/80, 7/126, 6-7=-91/176 2=-52/150, 2=-52/150, 18=-52/150, 16=-52/150,	12, 39 lb u uplift at joi 14, 45 lb u uplift at joi 9) Non Stand 10) This truss Internation	ate capable of withst plift at joint 2, 42 lb of th 16, 52 lb uplift at j plift at joint 19, 56 lb th 21 and 80 lb uplift ard bearing conditio is designed in accor al Residential Code and referenced star 5) Standard	uplift at j joint 15, o uplift at t at joint on. Revie dance w sections	oint 17, 57 lb 73 lb uplift at joint 20, 52 l 22. ew required. ith the 2018 \$ R502.11.1 a	joint b			A REAL	PE-2022	1042259

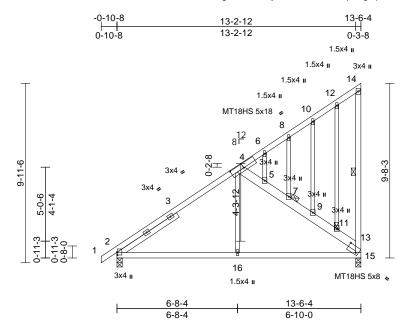
July 11,2023



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Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 85	
P240347-01	C2	Monopitch	1	1	Job Reference (optional)	159435152

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon Jul 10 12:58:41 ID:Ho1WEiUTGX1gwu78IG1QiOyGxNB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:63.8

Plate Offsets (X, Y): [2:0-1-13,0-0-4], [4:0-9-0,0-3-0], [15:0-6-6,0-3-11]

members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

	(7, 1). [2.0 1 10,0 0 4], [4.0 0 0,0 0 0], [10											
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/TP	T B W	CSI CC 3C VB Matrix-S	0.65 0.44 0.26	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.04 -0.09 0.01	(loc) 15-16 2-16 15	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 MT18HS Weight: 97 lb	GRIP 244/190 197/144 FT = 20%
	2x4 SP No.2 *Excep 2x4 SP No.2 2x4 SP No.2 2x3 SPF No.2 Left 2x4 SP No.2: Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. 1 Row at midpt 1 Brace at Jt(s): 11, 7 (size) 2=0-3-8, Max Horiz 2=39 (LC Max Uplift 2=-83 (LC Max Grav 2=665 (LC (lb) - Maximum Com Tension	t* 4-16:2x3 SPF No. 3-11-10 athing directly applie cept end verticals. applied or 9-10-14 of 14-15 15=0-3-8 C 9) C 12), 15=-202 (LC 1 C 1), 15=658 (LC 19) ppression/Maximum 227, 6-8=-276/239, 12=-204/204, 538/231, 5-7=-560/2	2) Tr 2 or 3) Pro 4) All 5) All 5) All 6) Ga 60 Ga 7) Th 60 Ga 8) All cal 9) Pro be: joir 10) Th 11) Gr: bo' LOAD	uss designed ly. For studs e Standard In consult qualif ovide adequa plates are M plates are 3x bile studs spa is truss has b ord live load r bearings are pacity of 565 ovide mechar aring plate ca at 15 and 83 l is truss is des ernational Re ouz. 10.2 and l aphical purlin	d for wind loads in exposed to wind dustry Gable En fied building desi ate drainage to pr T20 plates unless (4 MT20 unless of aced at 1-4-0 oc. been designed fo nonconcurrent wi e assumed to be st psi. nical connection - apable of withstar buplift at joint 2. signed in accorda seidential Code s referenced stando n representation of no of the purlin alco	I (norm d Deta gner as revent v s other otherwi r a 10.0 ith any SP No. (by oth noding 2 ance w ections lard AN does no	al to the face ils as applica s per ANSI/TI water ponding wise indicate se indicated. 0 psf bottom other live loa 2 crushing ers) of truss 1 02 lb uplift al ith the 2018 R502.11.1 a ISI/TPI 1. ot depict the s), ble, PI 1. g. dd. dds. dds.					MISSO
BOT CHORD WEBS		-214/183, 9-10=-77/6	64,								E.	S NATHA	NIEL
Vasd=91n Ke=1.00; (exterior zc Interior (1) exposed ; members	CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Exterior(2) 4-1-8 to 13-4-8 zone; end vertical left and ri, and forces & MWFRS OL=1.60 plate grip DC	DL=6.0psf; h=35ft; d; MWFRS (envelop E) -0-10-8 to 4-1-8, cantilever left and ri ght exposed;C-C for for reactions shown;	ght								THE	PE-2022	042259

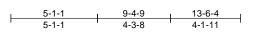
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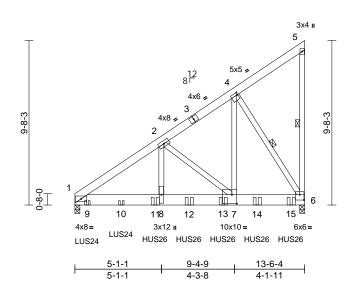
Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 85	
P240347-01	C3	Monopitch Girder	2	2	Job Reference (optional)	159435153

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon Jul 10 12:58:41 ID:HXV5guHpHJt4OGKtoCERWpyGxNS-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





zJC?f



Scale = 1:67.8

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

Plate Offsets ((X, Y): [4:0-0-12,0-1-1	2], [6:0-3-0,0-3-12],	[7:0-3-8,0-	6-4]									
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		8/TPI2014	CSI TC BC WB Matrix-S 7-16: Vult=115mr	0.29 0.36 0.88	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.07 -0.12 0.02	(loc) 7-8 7-8 6	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 230 lb	GRIP 197/144 FT = 20%
FORCES TOP CHORD BOT CHORD WEBS NOTES 1) 2-ply truss (0.131"x3" Top chord staggered Bottom ch staggered Web conn 2) All loads a except if n CASE(S) : provided th	2x8 SP 2400F 2.0E 2x4 SP No.2 Structural wood she 5-5-9 oc purlins, ex Rigid ceiling directly bracing. 1 Row at midpt (size) 1=0-3-8, Max Horiz 1=384 (Lt Max Uplift 1=-1112 / Max Grav 1=5503 (I (lb) - Maximum Con Tension 1-2=-7647/1389, 2-4 4-5=-202/180, 5-6=-	r applied or 10-0-0 oc 5-6, 4-6 6=0-3-8 C 9) (LC 12), 6=-1295 (LC LC 1), 6=7639 (LC 1) hpression/Maximum 4=-4084/764, 144/122 3=-1372/6184, =-3634/843, 5=-6287/1143 ther with 10d s: 2x6 - 2 rows iw at 0-9-0 oc. lows: 2x8 - 4 rows - 1 row at 0-9-0 oc. applied to all plies, ck (B) face in the LO nections have been	(2) 4) (5) 5) (7) 6) (7) 8) (7) 8) (9) (10 (1)	Vasd=91mpł Ke=1.00; Ca exterior zone Interior (1) 5- exposed; en members an Lumber DOL This truss ha chord live loa All bearings; capacity of 8 Provide mec bearing plate joint 6 and 1 ⁻ This truss is International R802.10.2 at Use Simpsor Truss, Single oc max. starf connect truss Use Simpsor Truss) or equ 4-8-12 from 1 to back face b) Fill all nail ho DAD CASE(S) Dead + Roc Plate Increa Uniform Loa Vert: 1-5- Concentratt	hanical connection capable of withst 112 lb uplift at join designed in accor Residential Code nd referenced starn Strong-Tie LUS2 e Ply Girder) or eq ting at 0-8-12 from s(es) to back face n Strong-Tie HUS2 uivalent spaced at the left end to 12- for bottom chord. oles where hanger Standard of Live (balanced): ase=1.15 ads (lb/ft) =-70, 1-6=-20 ed Loads (lb) 680 (B), 10=-662 (1) 1 (B), 13=-2121 (B)	CDL=6. sed; MW (2E) 0-1 e; cantile right exg S for rea JOL=1.6 for a 10. with any e SP 240 n (by oth anding 1 t 1. dance w sections ndard AN 24 (4-100 uivalent t the left of bottol 26 (14-11 2-0-0 od 3-12 to c : Lumber	Opsf; h=35ft; FRS (envelo -12 to 5-1-1, vover left and I bosed;C-C foi citions showr D psf bottom other live loa 00F 2.0E crus ers) of truss : 295 lb uplift : ith the 2018 s R502.11.1 a SIS/TPI 1. d Girder, 2-10 spaced at 2-1 end to 2-8-12 m chord. Dd Girder, 6- c max. startin onnect truss(tact with lum Increase=1. 2121 (B),	right r, shing to and 0-0 2 to 10d g at (es) uber.				THE OF M STATE OF M NATHA PE-2022	ER OCC
												July	11,2023



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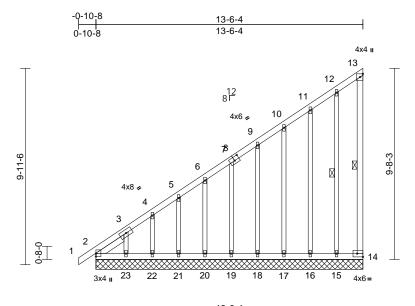
Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 85	
P240347-01	C4	Monopitch Supported Gable	1	1	Job Reference (optional)	159435154

Scale = 1:58.3

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon Jul 10 12:58:42 ID:GjwpzSgpHeSKmRw4J_pUy2yGxOF-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Page: 1



13-6-4	

 \vdash

Plate Offsets ((X, Y): [8:0-3-0,0-2-4]	[14:Edge,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	0.77 0.37 0.14	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 14	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 96 lb	GRIP 244/190 FT = 20%
	2x4 SP No.2 2x3 SPF No.2 Left 2x4 SP No.2 Left 2x4 SP No.2 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. 1 Row at midpt (size) 2=13-6-4 16=13-6- 22=13-6- 22=13-6- Max Horiz 2=399 (LI Max Uplift 2=-101 (L 15=-83 (L 19=-53 (L 23=-118) Max Grav 2=258 (LI 15=124 (L) 15=124 (L) 15=124 (L)	athing directly applie cept end verticals. applied or 10-0-0 oc 13-14, 12-15 14=13-6-4, 15=13-6 4, 17=13-6-4, 15=13-6 4, 23=13-6-4, 21=13- 4, 23=13-6-4 C 9) C 8), 14=-108 (LC 1 C 12), 16=-41 (LC 9) C 12), 18=-50 (LC 12 C 12), 20=-52 (LC 12 C 12), 22=-54 (LC 12 LC 12)	W d or -4, 6-4, 6-4, 6-4, 2), 2), 2), 3) (9), (9), (6) 9), (7), (7), (7), (7), (7), (7), (7), (7	VEBS OTES Wind: ASCE Vasd=91mp Ke=1.00; Ca exterior zonw Exterior(2N) right expose for members Lumber DOI Truss desig only. For st see Standar or consult qu All plates ard Gable requir Gable requir Gable studs This truss ha chord live lo	2-23=-178/230, 22 21-22=-178/230, 22 21-22=-178/230, 2 19-20=-178/230, 1 17-18=-178/230, 1 12-15=-221/207, 1 10-17=-98/107, 9-1 6-20=-99/90, 5-21= 3-23=-179/231 7-16; Vult=115mp h; TCDL=6.0psf; B t. II; Exp C; Enclos e and C-C Corner(4-2-4 to 13-4-8 zo d; end vertical left and forces & MWU =1.60 plate grip D ned for wind loads us exposed to wind l ndustry Gable E alified building des e 1.5x4 MT20 unles es continuous bott spaced at 1-4-0 oc as been designed f ad nonconcurrent vare assumed to be	0-21=-1 8-19=-1 6-17=-1 4-15=-1 1-16=-1 18=-99/ 99/99, h (3-see CDL=6. ed; MW 3E) -0-1 ne; can and rig FRS for OL=1.6 in the p d (norm nd Deta signer a ss other om cho : or a 10. vith any	78/230, 78/230, 78/230, 78/230, 78/230, 03/114, 101, 7-19=-99/ 4-22=-101/11 0psf; h=35ft; (FRS (envelop 0-8 to 4-2-4, ilever left and the exposed;C reactions sho 0 lane of the tru is as applicat s per ANSI/TF wise indicated d bearing. 0 psf bottom other live load	4, c wn; ss , ble, t1.	Inte R80	ernationa	al Resi	erenced standar ndard	MISSOFFE
FORCES TOP CHORD	23=160 (l (lb) - Maximum Con Tension 1-2=0/16, 2-3=-841/ 4-5=-624/422, 5-6=- 7-9=-449/337, 9-10= 10-11=-316/282, 11 12-13=-127/149, 13	pression/Maximum 547, 3-4=-686/452, 566/394, 6-7=-508/3 384/308, -12=-244/253,	8) 65, 9)	 Provide mec bearing plate joint 14, 101 lb uplift at joint 18, 531 lb uplift at joint 18, 531 lb uplift at joint 23. Beveled plate 	the pair. thanical connectior to capable of withsta lb uplift at joint 2, 8 int 16, 63 lb uplift at b uplift at joint 19, 8 int 21, 54 lb uplift at e or shim required truss chord at joint	anding 33 lb up t joint 1 52 lb up t joint 2 to provi	108 [°] Ib uplift at lift at joint 15, 7, 50 Ib uplift a lift at joint 20, 2 and 118 Ib u	41 at 51 plift			A A A A A A A A A A A A A A A A A A A	PE-2022	ER 042259

annes July 11,2023

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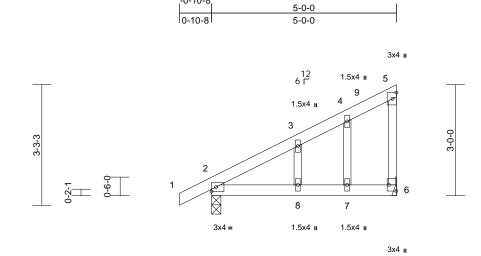
Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 85	
P240347-01	D1	Monopitch	4	1	Job Reference (optional)	159435155

-0-10-8

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

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon Jul 10 12:58:42 ID:J9uoFkXWrWxkhW?zklsl4bzDH1v-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1

. 45



5-0-0

Scale = 1:31.2	

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

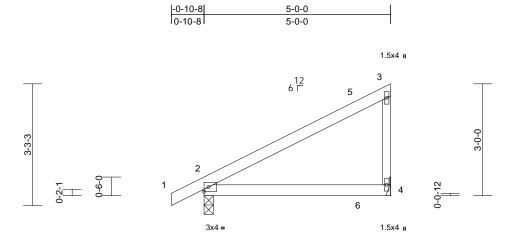
Loading (psf) Spacing 2-0-0 CSI DEFL in (loc) I/defl I/d PLATES TCLL (roof) 25.0 Plate Grip DOL 1.15 TC 0.20 Vert(LL) 0.04 7-8 >99 240 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.28 Vert(CT) -0.05 7-8 >999 180 BCLL 0.0 Rep Stress Incr YES WB 0.03 Horz(CT) 0.00 6 n/a n/a	GRIP 197/144
TCLL (roof) 25.0 Plate Grip DOL 1.15 TC 0.20 Vert(LL) 0.04 7-8 >999 240 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.28 Vert(CT) -0.05 7-8 >999 180	
TCDL 10.0 Lumber DOL 1.15 BC 0.28 Vert(CT) -0.05 7-8 >999 180	
BCDL 10.0 Code IRC2018/TPI2014 Matrix-S Weight: 22 lb	FT = 20%
	2070
LUMBER 6) Refer to girder(s) for truss to truss connections.	
TOP CHORD 2x4 SP No.2 7) Provide mechanical connection (by others) of truss to	
BOT CHORD 2x4 SP No.2 bearing plate capable of withstanding 60 lb uplift at joint	
WEBS 2x3 SPF No.2 6 and 59 lb uplift at joint 2.	
OTHERS 2x3 SPF No.2 8) This truss is designed in accordance with the 2018	
BRACING International Residential Code sections R502.11.1 and	
TOP CHORD Structural wood sheathing directly applied or R802.10.2 and referenced standard ANSI/TPI 1.	
5-0-0 oc purlins, except end verticals. LOAD CASE(S) Standard	
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc	
bracing.	
REACTIONS (size) 2=0-3-0, 6= Mechanical	
Max Horiz 2=123 (LC 9)	
Max Uplift 2=-59 (LC 12), 6=-60 (LC 12)	
Max Grav 2=292 (LC 1), 6=207 (LC 1)	
FORCES (Ib) - Maximum Compression/Maximum	
TOP CHORD 1-2=0/17, 2-3=-169/71, 3-4=-102/61, 4-5=-65/57, 5-6=-106/113	
BOT CHORD 2-8=-67/74, 7-8=-67/74, 6-7=-67/74	
WEBS 4-7=-36/69, 3-8=-48/105	
NOTES	
1) Wind: ASCE 7-16: Vult=115mph (3-second gust)	
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft;	5
Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope)	and the
exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8,	IISSO
Interior (1) 4-1-8 to 4-10-12 zone; cantilever left and	N
right exposed ; end vertical left and right exposed;C-C	
for members and forces & MWFRS for reactions shown;	
Lumber DOL=1.60 State grip DOL=1.60	
2) Truss designed for wind loads in the plane of the truss	11 120
only. For studs exposed to wind (normal to the face),	XII TE VA
see Standard Industry Gable End Details as applicable,	
or consult qualified building designer as per ANSI/TPI 1.	12250 188
3) Gable studs spaced at 1-4-0 bc.	1203/28
4) This truss has been designed for a 10.0 psf bottom	1 ONB
chord live load nonconcurrent with any other live loads.	ENA
 4) This truss has been designed for a 10.0 pst bottom chord live load nonconcurrent with any other live loads. 5) Bearings are assumed to be: Joint 2 SP No.2 crushing capacity of 565 psi. 	- A
capacity of 565 psi.	
July	11,2023

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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	
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)	

Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 85	
P240347-01	D2	Monopitch	10	1	Job Reference (optional)	159435156

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon Jul 10 12:58:42 ID:yf123P231X1sVXWTy3fc?NzDH2W-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



5-0-0

Scale = 1:30.9	9	1:30.	_	cale	
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_													
Loa	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	0.48	Vert(LL)	0.09	2-4	>603	240	MT20	197/144
тс	DL	10.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	0.08	2-4	>751	180		
BC	LL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BC	DL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 19 lb	FT = 20%
	MBER		•										
	P CHORD	2x4 SP No.2											
	T CHORD												
WE		2x3 SPF No.2											
	ACING	2/0 011 110.2											
	P CHORD	Structural wood she	athing directly appli	ed or									
10	FUNCT	5-0-0 oc purlins, ex											
BO	T CHORD	Rigid ceiling directly		c									
00	1 OHORD	bracing.		0									
RE	ACTIONS	(size) 2=0-3-0, 4	4= Mechanical										
		Max Horiz 2=123 (LC	C 9)										
		Max Uplift 2=-59 (LC											
		Max Grav 2=292 (L0	C 1), 4=207 (LC 1)										
FO	RCES	(lb) - Maximum Corr	npression/Maximum										
		Tension											
	P CHORD	1-2=0/17, 2-3=-167/	114, 3-4=-167/225										
BO	T CHORD	2-4=-54/59											
NO	TES												
1)		CE 7-16; Vult=115mph											
		nph; TCDL=6.0psf; BC											
		Cat. II; Exp C; Enclose		pe)									
		one and C-C Exterior(2	· · · · · · · · · · · · · · · · · · ·										
		4-1-8 to 4-10-12 zone sed ; end vertical left a		oroh									
		ht exposed;C-C for m										000	TID
		or reactions shown; Lu										F. OF	MIC
	grip DOL=											TATE OF I	0.00
2)		has been designed fo	r a 10.0 psf bottom								6	AT	N SY
,		load nonconcurrent wi		ds.							B	∽⁄ NATHA	ANIEL YC V
3)	Bearings a	are assumed to be: Joi	int 2 SP No.2 crushi	ng							R	FO FO	X
	capacity of	f 565 psi.									alt	H	
4)		irder(s) for truss to trus									WI	Alling	1 2
5)		echanical connection									MA	N/IN/an M	BER
		ate capable of withstar	nding 87 lb uplift at j	oint							· Wg	O PE-2022	
C)		b uplift at joint 2.									N	PE-2022	1042239 199
6)		is designed in accordanal Residential Code s		nd							Y	1 Pa	LANA A
		and referenced stand		inu							12	E'SSIONA	TENS
10		Standard										WINA	L E

LOAD CASE(S) Standard

July 11,2023

Course

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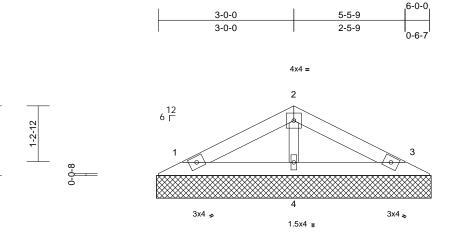
Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 85	
P240347-01	PB1	Piggyback	2	1	Job Reference (optional)	159435157

1-6-8

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon Jul 10 12:58:42 ID:9wUnxfypw9GahpSGfCwjgdzczGe-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

6-0-0





Scale = 1:25.5

Scale = 1.25.5													
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		тс	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15		BC	0.06	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES		WB	0.03	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC20	18/TPI2014	Matrix-P							Weight: 18 lb	FT = 20%
	6-0-0 oc purlins. Rigid ceiling directly bracing.	3=6-1-0, 4=6-1-0 12) 5 12), 3=-34 (LC 13),	8 d or 9 1 4=-7 L	 capacity of 5 Provide mec bearing plate 1, 34 lb uplift This truss is International R802.10.2 ai See Standar Detail for Co 	hanical connection a capable of withs a ti joint 3 and 7 I designed in acco Residential Code nd referenced sta d Industry Piggyb nnection to base fied building desi	on (by oth standing 3 b uplift at ordance w e sections andard AN back Trus truss as a	ers) of truss to 30 lb uplift at ju joint 4. ith the 2018 \$ R502.11.1 a NSI/TPI 1. s Connection	oint					
FORCES	(lb) - Maximum Com Tension	pression/Maximum											
TOP CHORD	1-2=-55/46, 2-3=-55	/52											
BOT CHORD	1-4=-1/25, 3-4=-1/25	5											
WEBS	2-4=-150/135												
NOTES													
this design 2) Wind: ASC Vasd=91m Ke=1.00; C exterior zor and right e exposed;C reactions s DOL=1.60	d roof live loads have E 7-16; Vult=115mph ph; TCDL=6.0psf; BC cat. II; Exp C; Enclose ne and C-C Exterior(2 xposed ; end vertical I -C for members and fr hown; Lumber DOL=	(3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop E) zone; cantilever le eft and right orces & MWFRS for 1.60 plate grip	e)									STE OF J	MISSOUR ANIEL X

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



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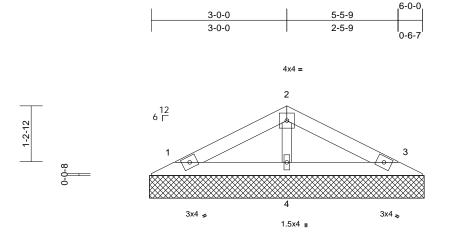
Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 85	
P240347-01	PB2	Piggyback	22	1	Job Reference (optional)	159435158

1-6-8

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon Jul 10 12:58:43 ID:9wUnxfypw9GahpSGfCwjgdzczGe-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

6-0-0





Scale = 1:25.5

30ale = 1.23.3												
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 YES IRC2018/TPI2014	CSI TC BC WB Matrix-P	0.13 0.06 0.03	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 18 lb	GRIP 244/190 FT = 20%
	6-0-0 oc purlins. Rigid ceiling directly bracing.	2 12), 3=-34 (LC 13),	capacity of 8) Provide me bearing pla 1, 34 Ib upli d or 9) This truss is Internationa R802.10.2 i 10) See Standa Detail for C consult qua 4=-7	chanical connection e capable of withs ft at joint 3 and 7 lb s designed in accou- ll Residential Code and referenced sta rd Industry Piggyb connection to base lified building design	on (by oth tanding 3 b uplift at rdance w e sections indard AN pack Trus truss as a	ers) of truss t 30 lb uplift at ji joint 4. ith the 2018 \$ R502.11.1 a ISI/TPI 1. s Connection	oint					
this design 2) Wind: ASC Vasd=91m Ke=1.00; ((lb) - Maximum Com Tension 1-2=-55/46, 2-3=-55 1-4=-1/25, 3-4=-1/25 2-4=-150/135 ed roof live loads have b. CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose Cat. II; Exp C; Enclose me and C-C Exterior/2	, /52 5 been considered for (3-second gust) (DL=6.0psf; h=35ft; ed; MWFRS (enveloped	/								TE OF I	MISSO

- exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 3) Truss designed for wind loads in the plane of the truss
- only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. Gable requires continuous bottom chord bearing. 4)
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



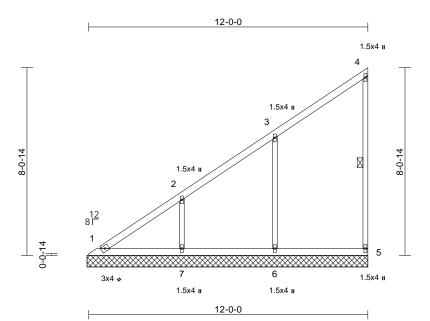


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Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 85	
P240347-01	V1	Valley	2	1	Job Reference (optional)	159435159

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon Jul 10 12:58:43 ID:3dyyPIGdvpWQ0?o0jPG2wlyGxRL-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:49.5

Loading	(psf)	Spacing	2-0-0		CSI TC	0.05	DEFL	in	(loc)	l/defl	L/d	PLATES MT20	GRIP
TCLL (roof) TCDL	25.0 10.0	Plate Grip DOL Lumber DOL	1.15 1.15		BC	0.25 0.13	Vert(LL) Vert(TL)	n/a n/a	-	n/a n/a	999 999	WI120	244/190
BCLL	0.0	Rep Stress Incr	YES		WB	0.13	Horiz(TL)	0.00	- 5	n/a	999 n/a		
BCDL	10.0	Code		8/TPI2014	Matrix-S	0.20	TION2(TL)	0.00	5	11/a	n/a	Weight: 50 lb	FT = 20%
LUMBER TOP CHORD	2x4 SP No.2	•	5)		as been designed t ad nonconcurrent			ds					
BOT CHORD	2x4 SP No.2		6)		are assumed to be								
WEBS	2x3 SPF No.2		- /	capacity of 5			5						
OTHERS	2x3 SPF No.2		7)	Provide mec	hanical connection	n (by oth	ers) of truss t	0					
BRACING					e capable of withst			oint					
TOP CHORD	Structural wood she 6-0-0 oc purlins, ex		ed or 8)	This truss is	ift at joint 6 and 17 designed in accor	dance w	ith the 2018						
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 o		R802.10.2 a	Residential Code nd referenced star			ind					
WEBS	1 Row at midpt	4-5	LC	DAD CASE(S)	Standard								
REACTIONS	(size) 1=12-0-15 7=12-0-15	5, 5=12-0-15, 6=12-0 5	0-15,										
	Max Horiz 1=335 (LC	C 12)											
	Max Uplift 5=-62 (LC 7=-171 (L		2),										
	Max Grav 1=183 (LC												
FORCES	(lb) - Maximum Com Tension	pression/Maximum											
TOP CHORD	1-2=-377/251, 2-3=- 4-5=-116/84	228/156, 3-4=-104/5	51,										
BOT CHORD	1-7=-1/2, 6-7=-1/2, 5	5-6=-1/2											
WEBS	3-6=-327/235, 2-7=-	299/221											
NOTES												STA	ADD
Vasd=91m Ke=1.00; (exterior zo	CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Exterior(2) 5-7-13 to 12-0-1 zone	DL=6.0psf; h=35ft; d; MWFRS (envelop E) 0-7-13 to 5-7-13;										STATE OF I	
	sed ; end vertical left e										ØA		AT A
											11/1		

members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable,

or consult qualified building designer as per ANSI/TPI 1. Gable requires continuous bottom chord bearing. 3)

4)́ Gable studs spaced at 4-0-0 oc.

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)



July 11,2023

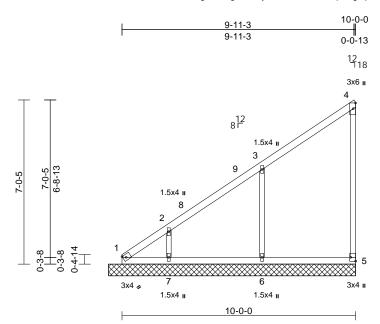
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PE-2022042259

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Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 85	
P240347-01	V2	Valley	2	1	Job Reference (optional)	159435160

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon Jul 10 12:58:43 ID: XHTUUT twhg M5Z xmg HzAJ4LyG xRs-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff



Scale = 1:49.3

Plate Offsets (X, Y): [5: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	0.60	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15		BC	0.20	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES		WB	0.14	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018	/TPI2014	Matrix-S							Weight: 42 lb	FT = 20%
LUMBER TOP CHORD	2x4 SP No.2		5)		s been designed ad nonconcurrent			ds					
BOT CHORD	2x4 SP No.2 2x4 SP No.2		6)		are assumed to b								
WEBS	2x3 SPF No.2		-,	capacity of 5									
OTHERS	2x3 SPF No.2		7)		hanical connectio	on (by oth	ers) of truss t	to					
BRACING				bearing plate	capable of withs	standing 7	7 lb uplift at j	oint					
TOP CHORD	Structural wood shea 6-0-0 oc purlins, exc		ed or	1, 59 lb uplift uplift at joint	at joint 5, 176 lb 7.	uplift at jo	bint 6 and 14	8 lb					
BOT CHORD	Rigid ceiling directly bracing.		8)		designed in acco Residential Code			ind					
	(size) 1=10-6-15 7=10-6-15 Max Horiz 1=285 (LC Max Uplift 1=-77 (LC 6=-176 (L Max Grav 1=164 (LC	C 9) 5 10), 5=-59 (LC 9), C 12), 7=-148 (LC 1	2)	R802.10.2 a AD CASE(S)	nd referenced sta Standard	andard AN	ISI/TPI 1.						
FORCES	(lb) - Maximum Com Tension												
TOP CHORD	1-2=-503/322, 2-3=-3 4-5=-129/138	372/260, 3-4=-177/1	52,										
BOT CHORD	1-7=-133/145, 6-7=-		45										
WEBS	3-6=-344/303, 2-7=-2	249/215											~
NOTES												A	all
Vasd=91m Ke=1.00; C exterior zo Interior (1) exposed ; members a	E 7-16; Vult=115mph ph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose ne and C-C Exterior(2 5-9-1 to 10-6-1 zone; end vertical left and rig and forces & MWFRS DL=1.60 plate grip DO	DL=6.0psf; h=35ft; d; MWFRS (envelop E) 0-9-1 to 5-9-1, cantilever left and ri ght exposed;C-C for for reactions shown	ght ;							-		STATE OF J	X

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.

Gable requires continuous bottom chord bearing. 3)

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



 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 Design value for use only with with every 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/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)



PE-2022042259

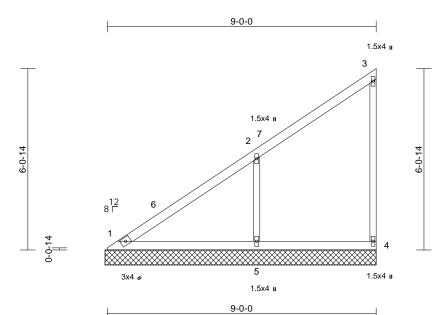
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Page: 1

Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 85	
P240347-01	V3	Valley	2	1	Job Reference (optional)	159435161

Run: 8,63 S Apr 6 2023 Print: 8,630 S Apr 6 2023 MiTek Industries, Inc. Mon Jul 10 12:58:43 ID:7inLsRr1OlzWhT15crccTiyGxRv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:38.6

Loading TCLL (roof)	(psf) 25.0	Spacing Plate Grip DOL	2-0-0 1.15	CSI TC	0.70	DEFL Vert(LL)	in n/a	(loc) -	l/defl n/a	L/d 999	PLATES MT20	GRIP 244/190
TCDL BCLL BCDL	10.0 0.0 10.0	Lumber DOL Rep Stress Incr Code	1.15 YES IRC2018/TPI2014	BC WB Matrix-S	0.18 0.10	Vert(TL) Horiz(TL)	n/a 0.00	4	n/a n/a	999 n/a	Weight: 36 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x3 SPF No.2 2x3 SPF No.2 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. (size) 1=9-0-15, Max Horiz 1=242 (LC Max Uplift 1=-4 (LC 12) Max Grav 1=194 (LC	cept end verticals. applied or 10-0-0 or 4=9-0-15, 5=9-0-15 C 9) 8), 4=-50 (LC 9), 5=	capacity of 7) Provide m bearing pl 1, 50 lb up 8) This truss Internation R802.10.2 c LOAD CASE(echanical connec ate capable of witi lift at joint 4 and 2 is designed in acc al Residential Co and referenced s	tion (by oth hstanding 4 209 lb uplift cordance w de sections	ers) of truss t b uplift at jo at joint 5. ith the 2018 5 R502.11.1 a	pint					

5=506 (LC 19) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=-388/267, 2-3=-172/145, 3-4=-134/142 BOT CHORD 1-5=-116/126, 4-5=-116/126 WEBS 2-5=-399/340

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-5-12 to 5-5-12, Interior (1) 5-5-12 to 9-0-1 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. 3) Gable requires continuous bottom chord bearing.

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

- 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 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)



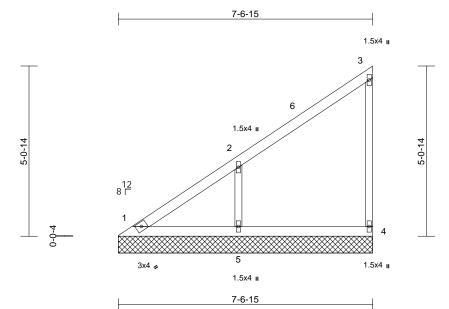




Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 85	
P240347-01	V4	Valley	2	1	Job Reference (optional)	159435162

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon Jul 10 12:58:43 ID:i76DDQo95qbyq0JWxj3vr4yGxRy-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:34.3

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 YES IRC2018	8/TPI2014	CSI TC BC WB Matrix-P	0.45 0.13 0.08	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: 29 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x3 SPF No.2 2x3 SPF No.2 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. (size) 1=7-6-15, Max Horiz 1=199 (LC Max Uplift 1=-16 (LC (LC 12)	cept end verticals. applied or 10-0-0 oc 4=7-6-15, 5=7-6-15 C 9) S 8), 4=-46 (LC 9), 5= C 20), 4=158 (LC 19)	; LC =-172	capacity of Provide me bearing plat 1, 46 lb upli This truss is Internationa	chanical connec e capable of with ft at joint 4 and 1 designed in acc l Residential Co and referenced s	tion (by oth hstanding f 172 lb uplift cordance w de sections	ers) of truss t 6 lb uplift at j at joint 5. ith the 2018 \$ R502.11.1 a	joint					
FORCES	(lb) - Maximum Com Tension	pression/Maximum											

Tension TOP CHORD 1-2=-353/236, 2-3=-165/135, 3-4=-138/151 BOT CHORD 1-5=-96/105, 4-5=-96/105 WEBS 2-5=-330/305

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-5-12 to 5-5-12, Interior (1) 5-5-12 to 7-6-1 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. 3) Gable requires continuous bottom chord bearing.

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

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



July 11,2023

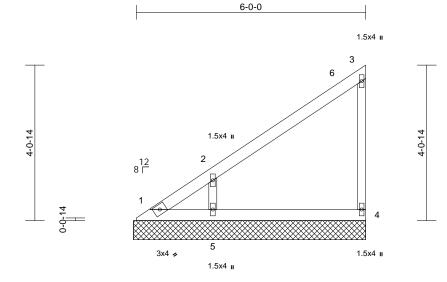
16023 Swingley Ridge Rd. Chesterfield MO 63017 314.434.1200 / MiTek-US.com



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 85	
P240347-01	V5	Valley	2	1	Job Reference (optional)	159435163

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon Jul 10 12:58:44 ID:mk_SpknvZDLEbi98pI1RmfyGxS_-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:30.2

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	244/190
TCDL	10.0	Lumber DOL	1.15		BC	0.12	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES		WB	0.07	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/	TPI2014	Matrix-P							Weight: 22 lb	FT = 20%
	2x4 SP No.2 2x3 SPF No.2 2x3 SPF No.2 2x3 SPF No.2 Structural wood shea 6-0-0 oc purlins, exx Rigid ceiling directly bracing. (size) 1=6-0-15, Max Horiz 1=157 (LC Max Uplift 1=-56 (LC	cept end verticals. applied or 10-0-0 oc 4=6-0-15, 5=6-0-15 C 9)	7) 8) ⁻ d or	capacity of 5 Provide mec bearing plate 1, 41 lb uplift This truss is International	nanical connec capable of wit at joint 4 and 1 designed in ac Residential Co nd referenced s	tion (by oth hstanding 5 56 lb uplift cordance w de sections	ers) of truss t 6 lb uplift at j at joint 5. ith the 2018 R502.11.1 a	joint					

6-0-0

5=-156 (LC 12) 1=83 (LC 9), 4=159 (LC 19), 5=378 Max Grav (LC 19) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=-331/216, 2-3=-155/120, 3-4=-135/154

BOT CHORD 1-5=-76/82, 4-5=-76/82 WEBS 2-5=-298/299

- NOTES
- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-5-12 to 5-5-12, Interior (1) 5-5-12 to 6-0-1 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. 3) Gable requires continuous bottom chord bearing.

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

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





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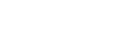
Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 85	
P240347-01	V6	Valley	2	1	Job Reference (optional)	159435164

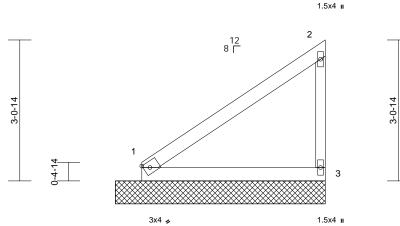
4-0-0

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

Run: 8,63 S Apr 6 2023 Print: 8,630 S Apr 6 2023 MiTek Industries, Inc. Mon Jul 10 12:58:44 ID:MAIKAik0HIzfkFQZ89Tk80yGxS1-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





4-0-0	

00010 = 1.20.1												
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	0.31	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	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: 15 lb	FT = 20%
		-		-		:4h 4h a 2010						
LUMBER			This truss is	s designed in ac	cordance w	iin the 2018						

International Residential Code sections R502.11.1 and

R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

LUMBER			J	Μ	в	Е	R
--------	--	--	---	---	---	---	---

Scale - 1.25 1

TOP CHORD	2x4
BOT CHORD	2x4
WEBS	2x3

WEBS	2x3 SPF I	No.2
BRACING		
TOP CHORD		wood sheathing directly applied or
	4-7-5 oc p	ourlins, except end verticals.
BOT CHORD	Rigid ceili bracing.	ing directly applied or 10-0-0 oc
	bracing.	
REACTIONS	(size)	1=4-6-15, 3=4-6-15
	Max Horiz	1=114 (LC 9)
	Max Uplift	1=-15 (LC 12), 3=-58 (LC 12)
	Max Grav	1=169 (LC 1), 3=186 (LC 19)
FORCES	(lb) - Max	imum Compression/Maximum

SP No.2

SP No.2

Tension TOP CHORD 1-2=-163/120, 2-3=-154/185 1-3=-55/60

BOT CHORD

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss 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. All bearings are assumed to be SP No.2 crushing 6)

capacity of 565 psi. 7)

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 1 and 58 lb uplift at joint 3.



July 11,2023

 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
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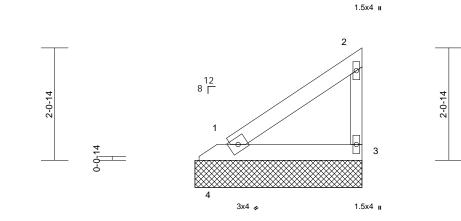
Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 85	
P240347-01	V7	Valley	2	1	Job Reference (optional)	159435165

3-0-0

3-0-0

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

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon Jul 10 12:58:44 ID:xbdBYgi8_Nb4tni_T1w1WOyGxS4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale -	= 1:21.2

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	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 10 lb	FT = 20%
LUMBER 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 3 and 47 lb uplift at joint 4. BOT CHORD 2x4 SP No.2 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 3 and 47 lb uplift at joint 4. WEBS 2x3 SPF No.2 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Ta3-0-15, 3=3-0-15, 4=3-0-15 Max Horiz 4=72 (LC 9) Max Uplift 3=-39 (LC 12), 4=-47 (LC 3) Max Grav 1=143 (LC 3), 3=110 (LC 19), Standard												
FORCES	4=-14 (LC	,										
FORCES	(lb) - Maximum Com Tension	ipression/ivlaximum										
TOP CHORD	1-2=-105/77, 2-3=-9	9/121										
BOT CHORD	1-4=-160/107, 1-3=-	35/38										
NOTES												
Vasd=91m Ke=1.00; C exterior zo and right e	CE 7-16; Vult=115mph hph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose ne and C-C Exterior(2 xposed ; end vertical I C-C for members and for	DL=6.0psf; h=35ft; d; MWFRS (envelop E) zone; cantilever le eft and right										

- reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. Gable requires continuous bottom chord bearing.
- 3)
- 4) Gable studs spaced at 4-0-0 oc. 5)
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.

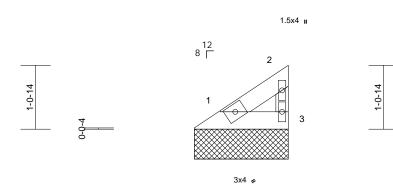


 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not besign value for use only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



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 85	
P240347-01	V8	Valley	2	1	Job Reference (optional)	159435166

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon Jul 10 12:58:44 ID:3pNgiJfdw84fOAODEBr5MYyGxS8-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



1.5x4 🛚



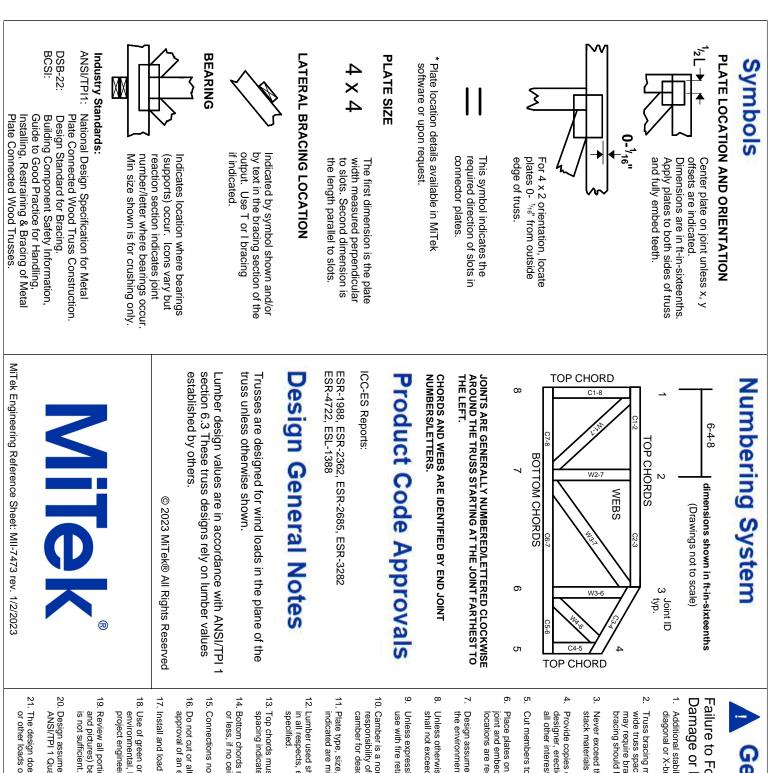
1-6-15

Scale =	1:19	9.3
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Scale = 1:19.3												
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 YES IRC2018/TPI2014	CSI TC BC WB Matrix-P	0.02 0.01 0.00	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 5 lb	GRIP 244/190 FT = 20%
									MISSOLANIEL XX			
<u></u>												

Antitek Bandward State Reference Bandward State Reference Bandward Ref

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)



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.
- 14. 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.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.