

RE: P230318-01 Roof - Osage Lot 5 MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017 314-434-1200

Site Information: Customer: Clover & Hive Project Name: P230318-01 Lot/Block: 5 Model: Address: 2002/2004/2006/2008 SW Holdb State: MO

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

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

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

This package includes 27 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	159271032	A1	6/30/2023	21	159271052	V2	6/30/2023
2	159271033	A2	6/30/2023	22	159271053	V3	6/30/2023
3	159271034	A3	6/30/2023	23	159271054	V4	6/30/2023
4	159271035	A4	6/30/2023	24	159271055	V5	6/30/2023
5	159271036	B1	6/30/2023	25	159271056	V6	6/30/2023
6	159271037	B2	6/30/2023	26	159271057	V7	6/30/2023
7	159271038	C1	6/30/2023	27	159271058	V8	6/30/2023
8	159271039	C2	6/30/2023				
9	159271040	C3	6/30/2023				
10	159271041	C4	6/30/2023				
11	159271042	D1	6/30/2023				
12	159271043	D2	6/30/2023				
13	159271044	D3	6/30/2023				
14	159271045	E1	6/30/2023				
15	159271046	E2	6/30/2023				
16	159271047	G1	6/30/2023				
17	159271048	G1A	6/30/2023				
18	159271049	G2	6/30/2023				
19	159271050	G2A	6/30/2023				
20	159271051	V1	6/30/2023				

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.



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 5	
P230318-01	A1	Roof Special Structural Gable	1	1	Job Reference (optional)	159271032

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Thu Jun 29 13:03:35 ID:kkw6VMCTKypIjEPYbt576Oz_rGt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1	1:88.2
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Plate Offsets (X	(, Y): [8:0-4-0,0-2-12]], [10:0-4-0,0-4-8], [1	1:Edge,0-2	2-5], [11:0-1-9,	0-6-0], [14:0-3-0,0	-3-4]								
Loading TCLL (roof) TCDL BCLL BCDI	(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2018	8/TPI2014	CSI TC BC WB Matrix-SH	0.87 0.99 0.92	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.41 -0.92 0.26	(loc) 17-19 15-17 11	l/defl >999 >641 n/a	L/d 240 180 n/a	PLATES MT20 MT18HS Weight: 227 lb	GRIP 244/190 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS WEDGE SLIDER BRACING TOP CHORD WEBS REACTIONS (FORCES TOP CHORD BOT CHORD BOT CHORD BOT CHORD WEBS NOTES 1) Unbalanced this design.	2x6 SPF No.2 *Exce 2.0E, 5-8:2x4 SP 16 2x4 SP 2400F 2.0E * 14-16,16-18:2x4 SP 2x3 SPF No.2 *Exce Right: 2x4 SPF No.3 Structural wood shea 2-6-5 oc purlins. Rigid ceiling directly bracing. 1 Row at midpt (size) 2=0-3-8, 1 Max Horiz 2=-174 (LI Max Grav 2=-2262 (L (lb) - Maximum Com Tension 1-2=0/0, 2-4=-5398/ 6-7=-4366/941, 7-8= 8-9=-3212/773, 9-11 2-19=-933/4974, 17- 15-17=-588/3605, 13 11-13=-732/4112 4-19=-235/180, 6-19 6-17=-784/288, 7-17 7-15=-1237/370, 8-1 10-13=0/290, 9-14=0 10-14=-605/203	pt* 1-5:2x4 SP 2400 50F 1.5E 'Except* 1650F 1.5E pt* 15-7:2x4 SP No. '3-6-9 athing directly applie applied or 7-11-11 of 7-15, 9-15 I1=0-3-8 C 17) C 8), 11=-315 (LC 1: C 1), 11=2273 (LC 1: C 1), 11=2273 (LC 1: pression/Maximum 1091, 4-6=-5153/105 -3086/765, =-4612/921, 11-12= 19=-799/4580, 3-15=-732/4112, I=-57/450, '=-110/862, 5=-312/1681, 0/426, 9-15=-1007/3 been considered for	2) 2 2 2 2 2 2 2 2 3) 2 3) 2 3) 1) 58, 0/6 21, 21,	Wind: ASCE Vasd=91mpt Ke=0.96; Car exterior zone Interior (1) 4- 32-4-1, Interi and right exp exposed;C-C reactions sho DOL=1.60 All plates are This truss ha chord live loa All bearings a capacity of 8 This truss is International R802.10.2 ar	7-16; Vult=115mp ; TCDL=6.0psf; Bt t. II; Exp C; Enclos and C-C Exterior(1-0 to 27-4-1, Exterior(1-0 to 27-4, E	h (3-sec CDL=6. ed; MW 2E) -0-1 erior(2R) -11-0 zc l left and forces & ss other or a 10.0 vith any SP 240 dance wi sections dard AN	ond gust) ps; h=35ft; FRS (envelog 1-0 to 4-1-0, 27-4-1 to ne; cantileve I right & MWFRS for ate grip wise indicate 0 psf bottom other live loa 0F 2.0E crus th the 2018 R502.11.1 a ISI/TPI 1.	oe) r left d. ds. hing nd				OF PE-20220	HI = 20% $HI = 20%$ $HI = 20%$ $HI = 10%$	

tra June 30,2023

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Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 5	
P230318-01	A2	Roof Special	2	1	Job Reference (optional)	159271033

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Thu Jun 29 13:03:39 ID:kkw6VMCTKypIjEPYbt576Oz_rGt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:88.2

ate Offsets (X, Y): [8:0-3-15,0-2-8], [10:0-2-8,0-3-0], [12:0-4-7,Edge], [15:0-3-0,0-3-4]														
Loading TCLL (roof) TCDL BCLL BCDI	(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 NO IRC2014	3/TPI2014	CSI TC BC WB Matrix-SH	0.88 0.99 0.89	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.42 -0.93 0.26	(loc) 18 16-18 12	l/defl >999 >634 n/a	L/d 240 180 n/a	PLATES MT20 MT18HS Weight: 226 lb	GRIP 244/190 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SP 2400F 2.0E ¹ 1650F 1.5E 2x4 SP 2400F 2.0E ¹ No.2, 19-17,17-15:2: 2x3 SPF No.2 *Exce Left 2x4 SP No.2 3 3-11-8 Structural wood she: 2-4-4 oc purlins. Rigid ceiling directly bracing. 1 Row at midpt (size) 2=0-3-8, 1 Max Horiz 2=172 (LC Max Uplift 2=-407 (L	*Except* 5-8:2x4 SP *Except* 0-0:2x4 SP x4 SP 1650F 1.5E pt* 16-7:2x4 SP No. 3-6-9, Right 2x4 SP I athing directly applie applied or 7-11-5 oc 7-16, 9-16 12=0-3-8 2 16) C 8), 12=-313 (LC 1:	2 No.2 d or 3) 5 5) 6) 3) 7)	Wind: ASCE Vasd=91mpt Ke=0.96; Cat exterior zone Interior (1) 4- 32-4-1, Interia and right exp exposed;C-C reactions sho DOL=1.60 All plates are All plates are This truss ha chord live loa All bearings a capacity of 8 This truss iso	7-16; Vult=115mp ;; TCDL=6.0psf; B t. II; Exp C; Enclos and C-C Exteriori 1-0 to 27-4-1, Ext or (1) 32-4-1 to 49 osed ; end vertica for members and own; Lumber DOL: MT20 plates unle 3x6 MT20 unless s been designed f d nonconcurrent v are assumed to be 05 psi. designed in accord Residential Code	ch (3-sec CDL=6.(sed; MW (22)-0-1 erior(2R)-11-0 zc l left and f forces & =1.60 pl: ss other cotherwi for a 10.(with any e SP 240 dance w	ond gust) ond gust) ps; h=35ft; FRS (envelop 1-0 to 4-1-0, 27-4-1 to ne; cantileve right & MWFRS for ate grip wise indicate se indicated. 0 psf bottom other live loa 0F 2.0E crus th the 2018 R502111 a	pe) er left r ed. shing				Weight: 220 iD	11 - 2078	
FORCES	Max Grav 2=2269 (L (lb) - Maximum Com Tension 1-2=0/0, 2-4=-5417/ ⁻ 6-7=-4387/945, 7-8=	LC 1), 12=2269 (LC ⁻ Ipression/Maximum 1094, 4-6=-5172/106 3099/768,	1) LC 61,	R802.10.2 ar DAD CASE(S)	nd referenced star Standard	ndard AN	ISI/TPI 1.							
BOT CHORD	8-9=-3214/777, 9-12 2-20=-939/4992, 18- 16-18=-597/3715, 14 12-14=-720/4024	2=-4544/913, 12-13= 20=-806/4599, 4-16=-721/4023,	0/0									TE OF M	IISSO	
WEBS NOTES	4-20=-235/180, 7-18 8-16=-316/1697, 7-1 6-18=-782/288, 6-20 9-15=0/410, 9-16=-1 10-15=-532/192	3=-109/861, 6=-1257/374, 9=-57/450, 10-14=0/2 002/318,	265,									FOI NATHAI	NIEL CR	

NOTES

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



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 5	
P230318-01	A3	Roof Special	5	1	Job Reference (optional)	159271034

Run: 8.63 E Jun 15 2023 Print: 8.630 E Jun 15 2023 MiTek Industries, Inc. Thu Jun 29 14:51:44 ID:kkw6VMCTKypljEPYbt576Oz_rGt-Vy9ylphTj_SBY2RjH4cKDrl3mmFySDrWem4?dNz1OMk

Page: 1



Scale = 1:89.1

Plate Offsets (X, Y): [8:0-3-15,0-2-8]], [9:0-3-14,0-1-12],	[12:0-2-8	,Edge], [13:Edg	e,0-0-6], [13:0-0	-6,0-10-9],	[17:0-4-0,0-5	5-4], [19:	0-2-8,0-3	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 NO IRC20	18/TPI2014	CSI TC BC WB Matrix-SH	0.87 0.98 0.85	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.47 -1.02 0.40	(loc) 20-22 20-22 13	l/defl >999 >573 n/a	L/d 240 180 n/a	PLATES MT20 MT18HS Weight: 281 lb	GRIP 244/190 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD	2x4 SP 2400F 2.0E 1650F 1.5E, 11-14:2 2x4 SP No.2 *Excep 2400F 2.0E, 17-12:2 21-23:2x4 SP 1650F	*Except* 5-8:2x4 SF 2x8 SP 2400F 2.0E t* 2-23,21-18:2x4 S 2x6 SP 2400F 2.0E, 5 1.5E	V P	VEBS	8-20=-310/1673, 7-22=-111/858, 6-22=-783/287, 9-19=-690/200, 17-19=-528/322 11-17=-1476/32	, 6-24=-56, 7-20=-125; 11-16=-1/3 9-20=-961, 9, 9-17=-4 9	(451, 5/375, 14, (315, 09/2099,						
WEBS LBR SCAB WEDGE SLIDER BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x3 SPF No.2 *Exce No.2 0-0 SP 2400F 2.0E 11-14 SP 2400F 2.0E 11-14 SP 2400F 2.0C Right: 2x4 SPF No.3 Structural wood she: 2-6-3 oc purlins. Rigid ceiling directly bracing. 1 Row at midpt (lb/size) 2=2263/0 Max Horiz 2=172 (LC Max Uplift 2=-406 (L	pt* 20-7,17-19:2x4 one side DE one side 3- athing directly appli applied or 7-11-9 o 7-20, 9-20 -3-8, 13=2243/0-3-8 C 12) C 8), 13=-305 (LC 1	ed or 2 c 3 13)	IOTES) Attached 8-6 2400F 2.0E spaced 9" o. 11, nail 2 row from end at 1 starting at 6- o.c. for 2-0-() Unbalanced this design.) Wind: ASCE Vasd=91mp Ke=0.96; Ca exterior zone Interior (1) 32-4-1 Inter	3-15 scab 11 to 1 with 2 row(s) of c.except : startir w(s) at 4" o.c. for joint 11, nail 2 ro :2-5 from end at). roof live loads h i: 7-16; Vult=115r h; TCDL=6.0psf; t. II; Exp C; Encl e and C-C Exteri -1-0 to 27-4-1, E ior (1) 32-4-1 to	14, front fa 10d (0.131 3-8-6; sta w(s) at 2" joint 11, na ave been o mph (3-sec BCDL=6.1 losed; MW or(2E) -0- xterior(2R 49-6-0 zor	ce(s) 2x8 SP "x3") nails from end at j rting at 3-10- o.c. for 2-0-0; iil 2 row(s) at considered for cond gust) ppsf; h=35ft; FRS (envelop 1-0 to 4-1-0,) 27-4-1 to e: cantilever	oint 9 ; 4" or pe)					
FORCES TOP CHORD BOT CHORD	(lb) - Max. Comp./Ma (lb) or less except wi 2-3=-5399/1065, 3-2 4-26=-5293/1091, 4- 5-6=-5045/1058, 6-7 7-27=-3082/740, 8-2 8-28=-3084/772, 9-2 9-10=-5324/1153, 10 11-25=-6349/1269, 2 12-29=-6457/1251, ' 2-24=-936/4976, 23- 22-23=-803/4582, 2' 20-21=-595/3697, 10 18-19=-71/423, 16-1 12-16=-1097/6130	ax. Ten All forces hen shown. 26=-5310/1081, -5=-5154/1055, 7=-4367/942, 27=-3000/764, 28=-3193/749, 0-11=-5468/1123, 25-29=-6392/1260, 12-13=-1083/253 -24=-803/4582, 1-22=-595/3697, 9-20=-584/3555, 17=-1097/6120,	250 4 5 6 7 1	 and right exposed;C-C reactions sh DOL=1.60 Provide ade: All plates are chord live lo This truss is International R802.10.2 a 	osced; end verti C for members a own; Lumber DC quate drainage t e MT20 plates ur as been designer ad nonconcurrer designed in acc Residential Coo nd referenced st Standard	acl left and oprevent v less other d for a 10. tt with any ordance w le sections andard AN	i right MWFRS for ate grip water ponding wise indicate) psf bottom other live loa ith the 2018 R502.11.1 a ISI/TPI 1.	r g. ad. ads.				TE OF M NATHA FO: PE-20220 PE-20220	AISSOLUTE NIEL BER 042259 L ENGINE

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



June 30,2023

Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 5	
P230318-01	A4	Roof Special Supported Gable	1	1	Job Reference (optional)	159271035

Run: 8.63 E Jun 15 2023 Print: 8.630 E Jun 15 2023 MiTek Industries, Inc. Thu Jun 29 14:52:52 ID:kkw6VMCTKypljEPYbt576Oz_rGt-zDq2EPXITB8OKaD_q4MWWOf0oa2k7ahgW?I9Ytz1OLf

Page: 1



Scale = 1:86.8

Plate Offsets (X, Y): [16:0-3-7,0-3-0], [29:0-4-3,0-0-6]

-													
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2018	3/TPI2014	CSI TC BC WB Matrix-SH	0.14 0.04 0.23	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.01	(loc) - - 29	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 246 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS SLIDER BRACING TOP CHORD BOT CHORD WEBS REACTIONS (lb) -	2x4 SP No.2 2x4 SP 2400F 2.0E No.2 2x3 SPF No.2 Right 2x4 SPF No.3 Structural wood she 6-0-0 oc purlins. Rigid ceiling directly bracing. 1 Row at midpt All bearings 49-0-0. Max Horiz 2=174 (L Max Uplift All uplift 2, 30, 31 39, 40, 4 50, 51, 5 Max Grav All reacti (s) 2, 29, 38, 39, 4 47, 49, 5 54=300 (*Except* 37-48:2x4 S 3 1-6-11 eathing directly applied y applied or 10-0-0 oc 16-41, 15-42, 17-40 C 16) 100 (lb) or less at joint 32, 33, 34, 35, 36, 34 2, 43, 44, 45, 46, 47, 4 2, 53, 54 ons 250 (lb) or less at 30, 31, 32, 33, 34, 35 0, 41, 42, 43, 44, 45, 4 0, 51, 52, 53 except LC 25)	2) SP d or 3) t(s) 5) 8, 6) 5) 49, 7) joint 8) 46, 9) 10	Wind: ASCE Vasd=91mp Ke=0.96; Ca exterior zome Exterior(2N) 32-4-1, Exter left and right exposed;C-f reactions sh DOL=1.60 Truss design only. For st see Standar or consult qu All plates arr Gable requir Gable studs This truss has chord live lo Solid blockir joint(s), 2. Beveled plat	7-16; Vult=115m, h; TCDL=6.0psf; E at. II; Exp C; Enclo e and C-C Corner(4-1-0 to 27-4-1, C rior(2N) 32-4-1 to t exposed ; end ve C for members and own; Lumber DOL ned for wind loads uds exposed to win d Industry Gable E julified building de e 2x4 MT20 unless res continuous bot spaced at 2-0-0 o as been designed ad nonconcurrent bg is required on b te or shim required truss chord at join designed in accor	ph (3-see 3CDL=6. sed; MW (3E) -0-1 Corner(3F 49-0-0 z artical left d forces a _=1.60 pl in the pl nd (norm End Deta sesigner a s otherwit ttom chor oc. for a 10. with any ooth sides d to provint (s) 2.	cond gust) Opsf; h=35ft; FRS (envelop 1-0 to 4-1-0, R) 27-4-1 to one; cantileve and right & MWFRS for ate grip ane of the trus al to the face) ils as applicat s per ANSI/TF se indicated. d bearing. D psf bottom other live load s of the truss and de full bearing ith the 2018	be) sr ss), ble, Pl 1. ds. at					
TOP CHORD	(Ib) - Max. Comp./M (Ib) or less except v 14-15=-101/265, 15 16-17=-115/284	1ax. Ten All forces 2 vhen shown. 5-16=-112/289,	250 LC	International R802.10.2 a AD CASE(S)	Residential Code nd referenced sta Standard	e sections ndard AN	s R502.11.1 a NSI/TPI 1.	nd			B	TE OF M	AISSOL
NOTES 1) Unbalance this design	ed roof live loads have	e been considered for									R.	S NATHA FOI	NIEL Z

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



202204

SSIONAL E

June 30,2023

Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 5	
P230318-01	B1	Roof Special Structural Gable	4	1	Job Reference (optional)	159271036

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Thu Jun 29 13:03:41 ID:kkw6VMCTKypIjEPYbt576Oz_rGt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:87.5

Plate Offsets (e Offsets (X, Y): [2:0-1-8,0-2-8], [8:0-5-3,0-2-3], [11:0-3-7,0-3-0], [33:2-3-14,Edge], [34:0-4-3,0-0-7], [34:3-4-1,0-1-8], [42:0-2-8,0-1-8], [45:0-2-8,0-1-8]												
Loading TCLL (roof) TCDL BCLL BCDL		(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	1-11-4 1.15 1.15 NO IRC2018/TPI2014	CSI TC BC WB Matrix-SH	0.98 0.86 0.77	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.37 -0.73 0.21	(loc) 45-47 45-47 34	l/defl >999 >670 n/a	L/d 240 180 n/a	PLATES MT20 MT18HS Weight: 264 lb	GRIP 244/190 244/190 FT = 20%
LUMBER TOP CHORD	2x6 SPF 1.5E, 30- 5-11,30-1 2x4 SP 2	No.2 *Exce 35:2x4 SP 1 1:2x4 SP N	ept* 1-5:2x4 SP 1650 2400F 2.0E, No.2 *Except* 0-0:2x4 SP	TOP CHORD F	1-2=0/0, 2-4=-460 6-7=-3534/764, 7- 8-9=-1193/388, 9- 11-13=-1211/415, 16-18=-1245/358	94/919, 4- 8=-2838/ 11=-119- 13-16=- 18-21=-	-6=-4361/879 /670, 4/413, 1227/384, 1253/326	,	2) Wii Va: Ke: ext	nd: ASCE sd=91mp =0.96; Ca erior zon	E 7-16; h; TCI at. II; E e and L-1-0 to	Vult=115mph (3 DL=6.0psf; BCDL xp C; Enclosed; C-C Exterior(2E)	-second gust) .=6.0psf; h=35ft; MWFRS (envelope) -0-11-0 to 4-1-0, (2R) 26-9-6 to
WEBS OTHERS SLIDER	No.2, 41- 2x3 SPF 2x3 SPF Left 2x4 S No.3 3-	43,43-46:2 No.2 No.2 SPF No.3 ·10-9	- 3-6-9, Right 2x4 SP	F	21-24=-1211/273, 24-26=-1232/247, 31-9-6, Interior (1) 31-126-29=-1189/201, 29-31=-1435/236, 31-33=-1044/95, 33-34=-1342/88, 34-35=0/0, exposed; C-C for meministree in the section shown; Luministree in the section shown								0 zone; cantilever left and right ces & MWFRS for 0 plate grip
BRACING TOP CHORD 1 Row at midp BOT CHORD	Structura 2-2-14 oc t 15-22 Rigid ceil bracing.	I wood she c purlins. E ling directly	athing directly applie except: applied or 6-0-0 oc	d or BOT CHORD	15-17=-1792/356, 17-19=-1825/379, 3) Truss designed for wind loads only. For studs exposed to wind loads on ly. For studs exposed to wind loads on ly. For studs exposed to wind loads or consult qualified building de 2-47=-800/4239, 45-47=-644/3758, 40 44-45=-494/3305, 42-44=-361/2765, 50 All plates are MT20 plates unle study exposed to wind loads on ly. For study exposed to wind l							or wind loads in the cosed to wind (n istry Gable End E d building designe 0 plates unless of MT20 unless other ad at 2-0-0 oc	he plane of the truss ormal to the face), Details as applicable, er as per ANSI/TPI 1. therwise indicated. erwise indicated.
JOINTS	1 Row at 1 Brace a 22, 15, 12 27 (cizo)	midpt at Jt(s): 28, 2, 10, 25,	15-44, 7-44	WEBS	38-39=-591/3459, 37-38=-1117/27, 7) 36-37=-27/1117, 34-36=-26/1115 7) 28-29=-118/506, 4-47=-280/194, 8-44=-126/953, 6-47=-63/511, 7-45=-81/639, 8-44=-126/953, 6-47=-63/511, 7-45=-81/639, All bearings are assumed to be SP 2400F 2.0E of capacity of 805 psi.								10.0 psf bottom any other live loads. 2400F 2.0E crushing
REACTIONS	Max Horiz Max Uplift Max Grav	2=0-3-6, 3 37=7-7-8, 2=163 (LC 2=-363 (L 36=-290 (38=-9 (LC 2=1960 (L 36=67 (LC	34=7-7-8, 39=0-3-8 38=7-7-8, 39=0-3-8 C 16) C 8), 34=-45 (LC 8), LC 1), 37=-354 (LC 26) LC 1), 34=835 (LC 1) C 8), 37=1503 (LC 1) C 8), 37=1503 (LC 1)	13), ,	22-40=-14/145, 15-42=-67/542, 6-45=-678/221, 15-44=-298/52, 22-42=-788/273, 7-44=-994/252, 11-12=-196/610, 9-10=-137/75, 16-17=-87/60, 18-19=-129/68, 21-23=-244/119, 24-25=-75/47, 26-27=-261/99, 31-37=-1094/353, PATHANIEL								MISSOLUTION
FORCES	(lb) - Max Tension	38=73 (LC kimum Com	pression/Maximum	NOTES 1) Unbalance this design	d roof live loads ha	r			Ń	FO	A Here		

Continued on page 2

WARNING Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



PE-20220422

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June 30,2023

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Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 5	
P230318-01	B1	Roof Special Structural Gable	4	1	Job Reference (optional)	159271036
Premier Building Supply (Springh	nill, KS), Spring Hills, KS - 66083,	Run: 8.63 S Apr 6 20	Page: 2			

ID:kkw6VMCTKypIjEPYbt576Oz_rGt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

This truss is designed in accordance with the 2018 9) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 5	
P230318-01	B2	Roof Special	8	1	Job Reference (optional)	159271037

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Thu Jun 29 13:03:43 ID:kkw6VMCTKypIjEPYbt576Oz_rGI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:86.7

Plate Offsets (X, Y): [8:0-3-15,0-2-8], [13:0-4-7,Edge], [16:0-2-8,0-1-8]

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC201	8/TPI2014	CSI TC BC WB Matrix-SH	0.87 0.95 0.94	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.40 -0.85 0.25	(loc) 20-22 18-20 13	l/defl >999 >677 n/a	L/d 240 180 n/a	PLATES MT20 MT18HS Weight: 218 lb	GRIP 244/190 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SP 2400F 2.0E - 1650F 1.5E 2x4 SP 2400F 2.0E - 17-19,19-21:2x4 SP 2x3 SPF No.2 *Exce Left 2x4 SPF No.3 No.3 3-2-1 Structural wood shea 2-6-6 oc purlins. Rigid ceiling directly bracing. 1 Row at midpt (size) 2=0-3-8, 1 Max Horiz 2=169 (LC Max Uplift 2=-399 (L Max Grav 2=2224 (L (lb) - Maximum Com	*Except* 5-8:2x4 SP *Except* 1650F 1.5E pt* 18-7:2x4 SP No. 3-6-9, Right 2x4 SP athing directly applie applied or 8-0-13 oc 7-18, 9-18 13=0-3-8 C 12) C 8), 13=-308 (LC 1: .C 1), 13=2224 (LC - pression/Maximum	2) F 3) 3) 3) 7) 1) LC	Wind: ASCE Vasd=91mpl Ke=0.96; Ca exterior zone Interior (1) 4. 31-9-7, Interi and right exp exposed;C-C reactions sho DOL=1.60 All plates are This truss ha chord live loa All bearings capacity of 8 This truss is International R802.10.2 ar	7-16; Vult=115mph n; TCDL=6.0psf; BC t. II; Exp C; Enclose and C-C Exterior(2 1-0 to 26-9-7, Exterior or (1) 31-9-7 to 48- iosed; end vertical for members and 1 for members and 1 iown; Lumber DOL= MT20 plates unlese a 3x6 MT20 unless is been designed for ad nonconcurrent w are assumed to be 05 psi. designed in accord Residential Code s and referenced stance Standard	n (3-sec CDL=6.1 ed; MW 2E) -0-7 rior(2R 11-0 zc left and forces & 1.60 pl ss other otherwi or a 10.0 ith any SP 240 ance w ecctions dard AN	ond gust) Dpsf; h=35ft; FRS (envelo 1-0 to 4-1-0,) 26-9-7 to nne; cantileve a fright & MWFRS fo ate grip wise indicate se indicated. D psf bottom other live loa 0F 2.0E crus ith the 2018 R502.11.1 a ISI/TPI 1.	pe) er left r ed. ads. shing and					
TOP CHORD	Tension 1-2=0/0, 2-4=-5292/ ⁻ 6-7=-4248/922, 7-8= 8-9=-3158/759, 9-11 11-13=-4430/895, 13	1071, 4-6=-5046/103 3028/756, =-3967/856, 3-14=0/0	88,									STATE I	and
BOT CHORD	2-22=-917/4876, 20- 18-20=-572/3582, 16 15-16=-715/3920, 13	-22=-785/4475, 6-18=-601/3609, 3-15=-715/3920									B	ATE OF M	AISSOL S
WEBS	4-22=-238/180, 8-18 6-22=-55/458, 7-20= 7-18=-1209/360, 6-2 11-15=0/226, 9-16=(11-16=-423/169	8=-308/1653, 117/860, 20=-793/290, 0/396, 9-18=-1028/3	24,								N	FOI FOI	NIEL VE V
1) Unbalanc	ed roof live loads have	been considered for									N2	ON PE-2022	042259

this design.

June 30,2023

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Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 5	
P230318-01	C1	Roof Special Structural Gable	1	1	Job Reference (optional)	159271038

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Thu Jun 29 13:03:43 ID:kkw6VMCTKypIjEPYbt576Oz_rGt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:86.2

Plate Offsets ((X, Y): [8:0-4-4,0-3-0],	[13:Edge,0-7-12], [14:0-2-8,0-	3-0], [15:0-2-8,	.0-1-8]								
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2018	8/TPI2014	CSI TC BC WB Matrix-SH	0.89 0.97 0.77	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.38 -0.85 0.22	(loc) 19-21 17-19 13	l/defl >999 >673 n/a	L/d 240 180 n/a	PLATES MT20 MT18HS Weight: 230 lb	GRIP 244/190 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD BOT CHORD WEBS REACTIONS FORCES TOP CHORD BOT CHORD WEBS NOTES 1) Unbalance this design	2x6 SPF No.2 *Exce 2.0E, 5-8:2x4 SP 16: 2x4 SP 2400F 2.0E 1 18-20,18-16:2x4 SP 2x3 SPF No.2 *Exce 17-7,14-12:2x4 SP N Left 2x4 SPF No.3 Structural wood she: 2-7-9 oc purlins, exc Rigid ceiling directly bracing. 1 Row at midpt (size) 2=0-3-8, 1 Max Horiz 2=174 (LC Max Uplift 2=-402 (L Max Grav 2=2218 (L (lb) - Maximum Com Tension 1-2=0/0, 2-4=-5276/- 6-7=-4234/916, 7-8= 8-9=-3072/754, 9-11 11-12=-3865/811, 12 2-21=-941/4860, 19- 17-19=-626/3568, 11 14-15=-698/3493, 13 4-21=-239/180, 8-17 6-19=-786/288, 11-1 11-15=-265/142, 7-1 11-15=-58/455, 9-17= 7-19=-110/863, 12-1	pt* 1-5:2x4 SP 240(50F 1.5E 'Except* 1650F 1.5E pt* 13-12:2x4 SPF I lo.2 3-6-9 athing directly applie cept end verticals. applied or 7-9-15 or 7-17, 9-17 3=0-3-8 > 16) C 8), 13=-277 (LC 1 .C 1), 13=2153 (LC pression/Maximum 1068, 4-6=-5028/10 -2950/739, =-3731/826, 2-13=-2083/495 21=-829/4457, 5-17=-587/3364, 3-14=-109/377 '=-298/1588, 4=-306/170, 9-15=0 7=-1240/370, -886/302, 4=-594/3144 been considered fo	2) DF No.3, ed or 3) c 4) 5) 3) 1) 7) 35, LC D/321, r	Wind: ASCE Vasd=91mpl Ke=0.96; Ca exterior zone Interior (1) 4 32-4-1, Interia and right exp exposed;C-C reactions shu DOL=1.60 Truss design only. For stu see Standard or consult qu All plates are Gable studs This truss ha chord live loa All bearings : capacity of 8 This truss is International R802.10.2 ar DAD CASE(S)	7-16; Vult=115m; 7; TCDL=6.0psf; E t. II; Exp C; Enclose and C-C Exterioro 1-0 to 27-4-1, Ext ior (1) 32-4-1 to 47 iorsed; end vertica C for members and own; Lumber DOL and for wind loads ids exposed to wird a Industry Gable E ialified building de MT20 plates unle spaced at 2-0-0 o is been designed in accor Residential Code ind referenced star Standard	oh (3-sec CDL=6.(Sed; MW (2E)-0-1 (2E)-0-1 al left and f forces & =1.60 pli in the pind f forces & = 1.60 pli f f forces & = 1.60 pli f f f f f f f f f f f f f f f f f f f	ond gust) ipsf; h=35ft; FRS (enveloo 1-0 to 4-1-0, 27-4-1 to ine; cantileved I right & MWFRS for ate grip ane of the tri ate grip ane of the tri ate grip wise indicate 0 psf bottom other live load 0F 2.0E crus ith the 2018 R502.11.1 a ISI/TPI 1.	pe) r left r uss ble, Pl 1. ad. and				STATE OF M STATE OF M NATHA FO PE-2022	MISSOLUR NIEL ER 042259

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

June 30,2023

Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 5	
P230318-01	C2	Roof Special	2	1	Job Reference (optional)	159271039

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Thu Jun 29 13:03:44 ID:kkw6VMCTKypIjEPYbt576Oz_rGt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1	:87.3
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Plate Offsets	(X, Y): [8:0-2-15,0-2-8]], [10:0-2-8,0-3-4], [11:0-3-0,0	-1-12], [12:Edg	e,0-3-8], [13:0-2-	8,0-3-0], [14:0-2-8,0-1-	8]					
Loading TCLL (roof) TCDL BCLL BCDL LUMBER	(psf) 25.0 10.0 0.0 10.0 2x4 SP 2400E 2 0E 2	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC201 2	8/TPI2014) Wind: ASCE Vasd=91mp	CSI TC BC WB Matrix-SH 7-16; Vult=115m c TCDI =6 0psf:	0.92 0.97 0.78 nph (3-sec	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.39 -0.87 0.22	(loc) 18-20 16-18 12	l/defl >999 >662 n/a	L/d 240 180 n/a	PLATES MT20 MT18HS Weight: 224 lb	GRIP 244/190 244/190 FT = 20%
BOT CHORD WEBS SLIDER BRACING TOP CHORD	No.2, 5-8:2x4 SP 16 2x4 SP 2400F 2.0E 15-17,17-19:2x4 SP 2x3 SPF No.2 *Exce 16-7,13-11:2x4 SP N Left 2x4 SPF No.3 Structural wood she	*Except 10 11244 *Except* 1650F 1.5E pt* 12-11:2x4 SPF Io.2 3-6-9 athing directly appli	No.3, ed, 3	Ke=0.96; Ca exterior zone Interior (1) 4 32-4-1, Inter and right exp exposed;C-C reactions sh DOL=1.60	t. II; Exp C; Enck e and C-C Exterio -1-0 to 27-4-1, E; ior (1) 32-4-1 to 4 oosed ; end vertic C for members ar pown; Lumber DO	osed; MW or(2E) -0-1 xterior(2R 47-10-4 zc cal left and forces & L=1.60 pla less other	FRS (envelop 11-0 to 4-1-0,) 27-4-1 to one; cantileve d right & MWFRS for ate grip wise indicate	oe) r left d.					
BOT CHORD WEBS REACTIONS FORCES TOP CHORD	Rigid ceiling directly bracing. 1 Row at midpt (size) 2=0-3-8, 1 Max Horiz 2=175 (LC Max Uplift 2=-401 (L Max Grav 2=2218 (L (lb) - Maximum Com Tension 1-2=0/0, 2-4=-5276/ ²	applied or 7-9-10 o 7-16, 9-16 (2= Mechanical (16) C 8), 12=-277 (LC 1 (C 1), 12=2153 (LC pression/Maximum 1068, 4-6=-5028/10	c 4 5 13) 6 1) 7 1) L	 This truss ha chord live lo. Bearings are crushing cap crushing cap Refer to gird This truss is International R802.10.2 a OAD CASE(S) 	as been designed ad nonconcurren assumed to be: hacity of 805 psi, hacity of 425 psi. er(s) for truss to designed in acco Residential Cod and referenced sta Standard	I for a 10.0 t with any Joint 2 SF Joint 12 S truss conr ordance w e sections andard AN	D psf bottom other live loa P 2400F 2.0E SPF No.3 nections. ith the 2018 S R502.11.1 a ISI/TPI 1.	ds. nd					
BOT CHORD	6-7=-4234/916, 7-8= 8-9=-3052/751, 9-11 11-12=-2084/495 2-20=-947/4860, 18- 16-18=-632/3568, 14 13-14=-687/3419, 12	-2943/739, =-3771/819, 20=-835/4457, 4-16=-582/3318, 2-13=-102/254									Å	TATE OF M	MISSOLU
WEBS NOTES 1) Unbalanc this desig	4-20=-240/180, 8-16 6-20=-58/455, 7-18= 7-16=-1258/374, 6-1 10-13=-362/179, 9-1 10-14=-242/138, 11- ed roof live loads have n.	=-298/1580, -109/863, 8=-784/288, 4=0/314, 9-16=-852 13=-589/3196 been considered fo	2/294, or							-		PE-20220	L ENGINE



June 30,2023

Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 5	
P230318-01	C3	Roof Special	5	1	Job Reference (optional)	159271040

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Thu Jun 29 13:03:44 ID:kkw6VMCTKypIjEPYbt576Oz_rGt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

	-0-11-0 6-10)-0 . 12-10-14	20-6-1	27-4-1	34-10-11	. 39-1-4	46-0-10 42-1-3 44-2-5 48-0-0
	0-11-0 6-10	0-0 6-0-14	7-7-3	6-10-0	7-6-10	4-2-9	2-11-15 2-1-2 1-10-6
				5x	5=		1-11-6
+ 2 -8-5 9-8-11 1-0-0 9-8-9 1-0-0 7-31-8-5	3x8 = 3 2 1 2 6x12=	29 4 28 3x6=	4 ¹² 3x6 = 7 5 6 5 7 5 6 7 3x6 = 7 5 6 5 6 7 3x6 = 7 5 6 5 6 7 3x6 = 7 5 6 5 6 MT18HS 3x10 = 4x6 =	6= 30 25 24 MT18HS 3x10 5x	31 \$ # = 8=	12 ₅ 4x8= 9 23 6x6=	3x4 II
	8	-8-11	17-1-1	27-4-1	34-10-12	39-2-8	47-8-8 42-1-3 44-3-9 47-2-0 1
	8	-8-11	8-4-6	10-3-0	7-6-11	4-3-12	2-10-11 2-2-6 2-10-7
Scale = 1:86.2							0-3-8
Plate Offsets (X	(, Y): [8:0-2-15,0-2-8	8], [9:0-1-8,0-2-0], [11:0-2-8,	,0-3-0], [18:0-2-0,Edge], [19:0-	2-8,0-2-0], [20:0-2-8,0-	1-8], [22:Edge,0-2-8]	, [23:0-2-8,0-3	-0]
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	Spacing2-0-1Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNOCodeIRC2	0 CSI TC BC WB 2018/TPI2014 Matrix-SH	0.84 Vert(LI 0.97 Vert(C 0.79 Horz(C	in (loc) -0.42 24-26 T) -0.93 24-26 T) 0.34 15	l/defl L/d >999 240 >619 180 n/a n/a	PLATES GRIP MT20 244/190 MT18HS 244/190 Weight: 238 lb FT = 20%
			WEBS 4-28=-240/1	80. 8-24=-284/1575.			·
TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD WEBS REACTIONS FORCES TOP CHORD BOT CHORD	2x4 SP 2400F 2.0E SP No.2, 5-8:2x4 SF 2x4 SP 2400F 2.0E 2x4 SP 2400F 2.0E 2x10,18-16:2x3 SP SP 1650F 1.5E, 16- 2x3 SPF No.2 *Exce 24-7,21-23,15-14,15 Left 2x4 SPF No.3 - Structural wood she 2-2-9 oc purlins, exc 2-0-0 oc purlins, exc 2-0-0 oc purlins (2-4 Rigid ceiling directly bracing. 1 Row at midpt (size) 2=0-3-8, ' Max Horiz 2=230 (Lf Max Uplift 2=-399 (Lf Max Uplift 2=-399 (Lf Max Grav 2=2218 (I (lb) - Maximum Com Tension 1-2=0/0, 2-4=-5276/ 6-7=-4233/90,7-8= 8-9=-3052/735, 9-10 (10-12=-5231/1060, 13-14=-33/1 2-28=-1003/4861, 2 24-26=-685/3568, 2 22-23=-32/162, 21-1 20-21=-962/4821, 1 18-19=-567/2637, 1 16-18=-40/6, 15-16=	*Except* 11-12,12-14:2x4 P 1650F 1.5E *Except* F No.2, 21-17,25-27:2x4 15:2x4 SP No.2 apt* -13,13-17:2x4 SP No.2 -3-6-9 eathing directly applied or cept I-0 max.): 12-14. P applied or 6-0-0 oc 7-24, 9-24 15= Mechanical C 12) C 8), 15=-280 (LC 13) LC 1), 15=2153 (LC 1) npression/Maximum 1061, 4-6=-5029/1027, -:2946/730, D=-4721/1035, 12-13=-4988/1008, 6-28=-888/4456, 3-24=-621/3306, 22=0/71, 10-21=-144/83, 9-20=-1038/5129, 7-18=-568/2683, a-45/1	 6-28=-57/45 7-24=-1256/ 11-20=-29/2 9-24=-833/2 9-21=-352/1 12-20=-363/ 15-17=-210⁻ 13-19=-564/ NOTES 1) Unbalanced roof live loa this design. 2) Wind: ASCE 7-16; Vult= Vasd=91mph; TCDL=6.0 Ke=0.96; Cat. II; Exp C; exterior zone and C-C E Interior (1) 4-1-0 to 27-4- 32-4-1, Interior (1) 32-4- and right exposed ; end exposed; C-C for membe reactions shown; Lumbe DOL=1.60 3) Provide adequate draina 4) All plates are MT20 platt 5) This truss has been desi chord live load nonconct 6) Bearings are assumed to crushing capacity of 805 crushing capacity of 825 7) Refer to girder(s) for trus 8) This truss is designed in International Residential R802.10.2 and reference 9) Graphical purlin represe or the orientation of the p bottom chord. LOAD CASE(S) Standard 	7, 7-26=-111/860, 375, 6-26=-785/288, 98, 9-23=-648/211, 86, 21-23=-605/3231, 665, 11-21=-574/148, 91, 12-19=-1883/404, 1/460, 14-17=-56/31, 3006, 13-17=-3300/71 ds have been consider 115mph (3-second gus)psf; BCDL=6.0psf; h=: Enclosed; MWFRS Enclosed; MWFRS Enclosed; MWFRS Enclosed; MWFRS therein(2R) 27-4-1 1 to 47-10-4 zone; can' vertical left and right rs and forces & MWFR r DOL=1.60 plate grip ge to prevent water po as unless otherwise ind gned for a 10.0 psf bot urrent with any other liv o be: Joint 2 SP 2400F psi, Joint 15 SPF No.3 psi. is to truss connections. accordance with the 2 Code sections R502.1 ed standard ANSI/TPI ' ntation does not depict burlin along the top and	7 ed for t) 55ft; velope) -1-0, to ilever left S for nding. icated. tom e loads. 2.0E 018 1.1 and the size /or		NATHANIEL BOX PE-2022042259 BIONAL ENGINE



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 5	
P230318-01	C4	Roof Special Supported Gable	1	1	Job Reference (optional)	159271041

Run: 8.63 E Jun 15 2023 Print: 8.630 E Jun 15 2023 MiTek Industries. Inc. Thu Jun 29 14:53:30 ID:kkw6VMCTKypljEPYbt576Oz_rGt-sX7PCO_aWsx?uP7I231Q2PEXkv?t1m5GFvV9ugz1OL3

Page: 1



Scale = 1:86.2

Plate Offsets (X, Y): [16:0-3-7,0-3-0]

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 NO IRC2018	3/TPI2014	CSI TC BC WB Matrix-SH	0.11 0.09 0.23	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.01	(loc) - - 29	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 246 lb	GRIP 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD BOT CHORD WEBS REACTIONS (lb) -	2x4 SP No.2 2x4 SP No.2 2x4 SPF No.3 2x3 SPF No.2 Left 2x4 SPF No.3 Structural wood she 6-0-0 oc purlins, exx Rigid ceiling directly bracing. 1 Row at midpt All bearings 48-0-0. Max Horiz 2=175 (LC Max Uplift All uplift 1 2, 29, 31, 39, 40, 42 51, 52, 53 (LC 13) Max Grav All reaction (s) 2, 29, 3 38, 39, 40 48, 50, 51 55=268 (L	Wind: ASCE Vasd=91mpl Ke=0.96; Ca exterior zone Exterior(2N) 32-4-1, Exte left and right exposed;C-C reactions she DOL=1.60 Truss design only. For stt see Standarr or consult qu All plates are Gable requir Gable studs This truss ha chord live loa This truss is International R802.10.2 a	 diamond in the standard standa						Step OF MISS					
FORCES TOP CHORD NOTES 1) Unbalance this design	(lb) - Max. Comp./Ma (lb) or less except w 12-13=-101/255, 13- 14-56=-100/283, 14- 15-16=-134/336, 16- 17-18=-124/274 ed roof live loads have h.	ax. Ten All forces 2 hen shown. :56=-112/276, :15=-124/312, :17=-138/332, been considered for	50							•		NATHA FO2 PE-20220	IISSOLA NIEL BER 422259	•

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



there

June 30,2023

Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 5	
P230318-01	D1	Roof Special	4	1	Job Reference (optional)	159271042

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Thu Jun 29 13:03:46 ID:kkw6VMCTKypIjEPYbt576Oz_rGt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:87.2

Plate Offsets (X, Y): [8:0-3-15,0-2-8], [13:0-4-7,Edge], [15:0-2-8,0-1-8]

														_
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.87	Vert(LL)	-0.40	19-21	>999	240	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15		BC	0.95	Vert(CT)	-0.85	17-19	>677	180	MT18HS	197/144	
BCLL	0.0	Rep Stress Incr	NO		WB	0.95	Horz(CT)	0.25	13	n/a	n/a			
BCDL	10.0	Code	IRC2018	3/TPI2014	Matrix-SH							Weight: 217 lb	FT = 20%	_
LUMBER			2)	Wind: ASCE	7-16; Vult=115mph	n (3-sec	ond gust)							
TOP CHORD	2x4 SP 2400F 2.0E 1650F 1.5E	*Except* 5-8:2x4 SP		Vasd=91mph Ke=0.96; Ca	n; TCDL=6.0psf; BC t. II; Exp C; Enclose	CDL=6.0 ed; MW	0psf; h=35ft; FRS (envelop	be)						
BOT CHORD	2x4 SP 2400F 2.0E 18-20,18-16:2x4 SP	*Except* 1650F 1.5E		exterior zone Interior (1) 4-	and C-C Exterior(2 1-0 to 26-9-6, Exte	2E) -0-1 rior(2R	1-0 to 4-1-0,) 26-9-6 to							
WEBS	2x3 SPF No.2 *Exce	ept* 17-7:2x4 SP No.	2	31-9-6, Interi	or (1) 31-9-6 to 48-	0-0 zor	ie; cantilever	left						
SLIDER	Left 2x4 SPF No.3 No.3 3-2-1	- 3-6-9, Right 2x4 SP	'F	and right exp exposed;C-C	osed ; end vertical for members and	left and forces a	I right MWFRS for							
BRACING				reactions sho	own; Lumber DOL=	1.60 pl	ate grip							
TOP CHORD	Structural wood she 2-6-5 oc purlins.	athing directly applie	d or 3)	DOL=1.60 All plates are	MT20 plates unles	s other	wise indicate	d.						
BOT CHORD	Rigid ceiling directly bracing.	applied or 8-0-12 oc	; 4) 5)	All plates are This truss ha	s been designed fo	otherwi or a 10.0	se indicated.) psf bottom							
WEBS	1 Row at midpt	7-17, 9-17		chord live loa	ad nonconcurrent w	ith any	other live loa	ds.						
REACTIONS	(size) 2=0-3-8.	13= Mechanical	6)	Bearings are	assumed to be: Jo	int 2 SI	2400F 2.0E							
	Max Horiz 2=169 (LC	C 16)		crushing cap	acity of 805 psi, Joi	int 13 S	PF No.3							
	Max Uplift 2=-399 (L	.C 8), 13=-285 (LC 1	3) –	crusning cap	acity of 425 psi.		a ationa							
	Max Grav 2=2225 (L	LC 1), 13=2159 (LC -	1) (1)	This truck in	designed in second	SS CON	ith the 2019							
FORCES	(lb) - Maximum Com	pression/Maximum	· 0)	International	Residential Code s	ance w	R502 11 1 a	nd						
	Tension			R802 10 2 ar	nd referenced stand	dard AN	ISI/TPI 1	nu						
TOP CHORD	1-2=0/0, 2-4=-5294/	1072, 4-6=-5048/103	^{39,} IO	AD CASE(S)	Standard									
	6-7=-4250/923, 7-8=	=-3031/757,		(U) 0/(02(0)	olandara									
	8-9=-3160/765, 9-11	I=-3969/870,											Th	
	11-13=-4442/927											ALTI	and	
BOT CHORD	2-21=-918/4877, 19-	-21=-786/4476,										B.F. OF M	AISS W	
	17-19=-572/3584, 1	5-17=-602/3614,									6	9.0	N'S	
	14-15=-743/3934, 13	3-14=-743/3934									B	NATHA	NIFI XP.V	
WEBS	4-21=-238/180, 8-17	(=-313/1655,								_	_R.	7 INALIA		
	6-21=-55/458, 7-19=	=-117/860,									R/I	1 100		
	$11_1/=0/227$ 0-15-0	19=-793/290, 0/308 0-171031/3	25									11. 1	14 134	
	11-15-432/172	0/030, 3-17 100 1/0.	20,								MT	VV al	The	
NOTES	11 10= 402/112										20	MANNEN	BER AND	
1) Unholono	ad roof live loade have	been considered for									N	PE-20220	142259	
this design	eu roor live loaus have										N S	The second	12H	
una desigi											Y	10'50	JON H	
												UNONA	LEFE	
												Con	CTTS -	

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



June 30,2023

Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 5	
P230318-01	D2	Roof Special	10	1	Job Reference (optional)	159271043

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Thu Jun 29 13:03:47 ID:kkw6VMCTKypIjEPYbt576Oz_rGt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:86.8

Plate Offsets	(X, Y): [8:0-3-15,0-2-8	i], [9:0-1-4,0-1-12],	14:0-3-12	2,0-2-8], [18:0-4	-8,0-2-8], [19:0-2	2-0,Edge], [20:0-2-8,0-2-	·0], [21:0	-2-8,0-1-	-8], [24:0)-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 NO IRC20	18/TPI2014	CSI TC BC WB Matrix-SH	0.90 0.95 0.91	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.48 -1.00 0.40	(loc) 25 25-27 16	l/defl >999 >576 n/a	L/d 240 180 n/a	PLATES MT20 MT18HS Weight: 237 lb	GRIP 244/190 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING	2x4 SP 2400F 2.0E No.2, 13-15,5-8:2x4 2x4 SP 2400F 2.0E 23-10,17-16:2x4 SP No.2, 26-23,26-28:2 2x3 SPF No.2 *Exce 25-7,22-24,16-15,18 Left 2x4 SPF No.3	*Except* 11-13:2x4 SP 1650F 1.5E *Except* No.2, 19-17:2x3 SI x4 SP 1650F 1.5E spt* -14,14-20:2x4 SP N - 3-6-9	SP PF No.2	WEBS NOTES	4-29=-239/180, 7-27=-117/859, 8-25=-297/1625 12-21=-115/73 9-25=-987/313, 12-22=-1151/26 13-21=-1357/25 15-18=-67/33, 1 14-20=-694/372	6-29=-55/4 6-27=-794, 9, 7-25=-12 1, 9-24=-66 22-24=-61 36, 9-22=-4 91, 16-18=- 14-18=-412 27, 13-20=-	159, /290, 07/360, 3/225, 3/3325, 11/2002, 2105/459, 8/893, 1928/413						
TOP CHORD BOT CHORD WEBS REACTIONS	Structural wood she 1-5-7 oc purlins, exo 2-0-0 oc purlins (2-2 Rigid ceiling directly bracing. 1 Row at midpt (size) 2=0-3-8, 1 Max Horiz 2=216 (LC Max Uplift 2=-397 (L Max Grav 2=2218 (L	athing directly appli cept 2-4 max.): 13-15. applied or 6-0-0 oc 7-25, 9-25 16= Mechanical C 12) C 8), 16=-285 (LC -C 1), 16=2153 (LC	ed or 22	 Unbalanced this design. Wind: ASCC Vasd=91mp Ke=0.96; C exterior zor Interior (1) - 31-9-6, Inte and right ex exposed;C- 	d roof live loads l E 7-16; Vult=115 oh; TCDL=6.0psi at. II; Exp C; End e and C-C Exter 4-1-0 to 26-9-6, l prior (1) 31-9-6 to oposed ; end veri C for members a	imph (3-sec f; BCDL=6. closed; MW rior(2E) -0-7 Exterior(2R 47-10-4 zc tical left and and forces 2	considered fo cond gust) Dpsf; h=35ft; FRS (envelo I1-0 to 4-1-0,) 26-9-6 to Dne; cantileve d right & MWFRS fo	pe) er left r					
FORCES TOP CHORD BOT CHORD	(lb) - Maximum Com Tension 1-2=0/0, 2-4=-5276/ 6-7=-4230/914, 7-8= 8-9=-3137/747, 9-10 10-12=-5397/1102, 1 3-14=-6949/1398, 2 2-99=-989/4860, 27 25-27=-669/3564, 2 23-24=-69/321, 22-2 21-22=-1178/5924, 2 19-20=-792/3694, 11 17-19=-30/10, 16-17	npression/Maximum 1063, 4-6=-5030/10 3012/748, D=-5269/1131, 12-13=-6411/1291, 14-15=-69/8 -29=-877/4458, 4-25=-665/3555, 23=0/60, 10-22=-10, 20-21=-1442/7154, 8-19=-800/3761, 7=-67/8	2/69,	 DOL=1.60 DOL=1.60 Provide ade All plates and This truss h chord live lc Bearings and crushing can crushing can rushing can Refer to giring This truss is Internationan R802.10.2 and Graphical poor the orien bottom cho LOAD CASE(S 	equate drainage re MT20 plates u has been designe bad nonconcurre re assumed to be upacity of 805 psi upacity of 805 psi upacity of 425 psi der(s) for truss to s designed in acc al Residential Co and referenced s urlin represental tation of the purl rd.) Standard	to prevent v inless other ed for a 10.0 nt with any i: Joint 2 SI i: Joint 16 S i: o truss conr cordance w de sections standard AN ion does no in along the	water pondin wise indicate 0 psf bottom other live loa 22400F 2.0E SPF No.3 nections. ith the 2018 5 R502.11.1 a ISI/TPI 1. ot depict the s	g. ed. ads. = and size				PE-2022	MISSOLP NIEL BER OLA 042259



June 30,2023

Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 5	
P230318-01	D3	Roof Special Supported Gable	2	1	Job Reference (optional)	159271044

Run: 8.63 E Jun 15 2023 Print: 8.630 E Jun 15 2023 MiTek Industries, Inc. Thu Jun 29 14:54:46 ID:kkw6VMCTKypIjEPYbt576Oz_rGt-e9j89NvFcDWD05wuV0PF7RNWaXxuq83SjkvBYGz1OJt

Page: 1



Scale = 1:86.1

Plate Offsets ((X, Y): [16:0-3-7,	0-3-0],	[28:0-4-3,0-0-7]											
Loading TCLL (roof) TCDL BCLL BCDL	(p 25 10 0 10	sf) 5.0 0.0 0.0 0.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2018	8/TPI2014	CSI TC BC WB Matrix-SH	0.11 0.08 0.22	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.01	(loc) - - 28	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 242 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD OTHERS SLIDER BRACING TOP CHORD BOT CHORD WEBS REACTIONS (lb) -	2x4 SP No.2 *E 1.5E 2x4 SP No.2 Left 2x4 SPF No.2 Left 2x4 SPF N No.3 1-8-10 Structural wood 6-0-0 oc purlins Rigid ceiling di bracing. 1 Row at midpl All bearings 48-C Max Horiz 2=16 Max Uplift All u 2, 30 40, 51, 5 Max Grav All rr (s) 2 38, 3 49, 5 (LC	Except lo.3 : d shea s. rectly a t 1 D-0. 639 (LC plift 10 0, 31, 2 42, 43, 52, 53 actior 3 39, 40, 50, 51, 26)	* 23-28:2x4 SP 165 2-9-14, Right 2x4 S thing directly applie applied or 10-0-0 oc 16-39, 15-40, 17-38 16) 10 (lb) or less at join 32, 33, 34, 36, 37, 3 44, 45, 46, 48, 49, except 29=-107 (LC is 250 (lb) or less at 0, 31, 32, 33, 34, 36 42, 43, 44, 45, 46, 52, 53 except 29=2	2) OF PF d or (s)	Wind: ASCE Vasd=91mpf Ke=0.96; Ca exterior zone Exterior(2N) 31-9-6, Exter left and right exposed;C-C reactions sho DOL=1.60 Truss design only. For stu see Standard or consult qu All plates are Gable requiri Gable studs This truss ha chord live loa This truss is International R802.10.2 ar	7-16; Vult=115m n; TCDL=6.0psf; t. II; Exp C; Enclo e and C-C Corner 4-1-0 to 26-9-6, 1 iror(2N) 31-9-6 to exposed ; end vo c for members an own; Lumber DO end for wind loads ds exposed to w d Industry Gable tailifed building e 2x4 MT20 unless es continuous bo spaced at 2-0-0 d is been designed ad nonconcurrent designed in acco Residential Code and referenced sta Standard	nph (3-sec BCDL=6.0 osed; MW (3E) -0-1 Corner(3R) 0 48-0-0 zc ertical left di forces & L=1.60 pla s in the pla ind (norm: End Detai esigner as ss otherwisi toto chor oc. I for a 10.0 t with any ordance wie e sections andard AN	ond gust) Dpsf; h=35ft; FRS (envelop I-0 to 4-1-0, 2) 26-9-6 to one; cantileve and right & MWFRS for ate grip ane of the tru al to the face Is as applical s per ANSI/TF se indicated. d bearing. D psf bottom other live loa th the 2018 R502.11.1 a ISI/TPI 1.	oe) er ss), ble, Pl 1. ds. nd				50.000	
FORCES	(lb) - Max. Con (lb) or less exc	np./Ma ept wh	x. Ten All forces 2 en shown.	250								4	TE OF M	AISSO
I OP CHORD	CHORD 14-15=-110/277, 15-16=-121/301, 16-17=-124/296											A	S NATHA	NIEL X
NOTES 1) Unbalance this design	ed roof live loads n.	have t	been considered for								C	Mr.	H. FO	

N



OFFESSIONAL ET

AUBER

June 30,2023

PE-20220422

Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 5	
P230318-01	E1	Roof Special Supported Gable	4	1	Job Reference (optional)	159271045

46

3x6 II

45

44

43

42

41 4039

3x6=

Run: 8.63 E Jun 15 2023 Print: 8.630 E Jun 15 2023 MiTek Industries, Inc. Thu Jun 29 15:00:42 ID:kkw6VMCTKypljEPYbt576Oz_rGt-kSgLfmCx0IEr5eZ7o4GV0IaBYe6PWh5iMTPTWCz1OEK

22-8-8 33-9-7 40-8-0 22-8-8 11-0-15 6-10-9 5x5 🚅 14 13 15 11 ⁴⁷ 12 16 ⁴⁸ 17 12 15 3x6≠ 4□ 10 9 18 3x6.**≈** 8 ²⁰ 21 6 7 19 5 4x6 -22 3

38

37

36

40-8-0

35

34

33

5x5=

32

31

30

29

28

Scale = 1:76.9

8-2-0 7-2-9

8-2-3

Plate Offsets	(X, Y): [2:0-3-0,0-2-12], [14:0-3-7,0-3-0], [25:0-3-4,0-3	3-10], [33:0-2-	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	1-11-4 1.15 1.15 NO IRC2018	3/TPI2014	CSI TC BC WB Matrix-SH	0.07 0.05 0.21	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.01	(loc) - - 25	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 197 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS SLIDER BRACING TOP CHORD BOT CHORD REACTIONS (lb)	 2x4 SP No.2 2x4 SP No.2 2x3 SPF No.2 Left 2x4 SPF No.3 Structural wood she 6-0-0 oc purlins. Rigid ceiling directly bracing. All bearings 40-8-0. Max Horiz 2=139 (LC Max Uplift 1 2, 25, 27, 34, 36, 37 45, 46 Max Grav All reaction (s) 2, 25, 34, 35, 36 44, 45, 46 	- 2-8-15 athing directly appli applied or 10-0-0 o C 12) 00 (lb) or less at joi 28, 29, 30, 31, 32, 3 7, 38, 39, 41, 42, 43, ons 250 (lb) or less a 27, 28, 29, 30, 31, 3 3, 37, 38, 39, 41, 42, 3 5	3) ed or 6) c 8) nt(s) LC 33, , 44, at joint 32, 33, , 43,	Truss desig only. For st see Standar or consult q All plates ari Gable studs This truss his chord live lo This truss is Internationa R802.10.2 a DAD CASE(S)	ned for wind loads uds exposed to w 'd Industry Gable ualified building d e 1.5x4 MT20 unl- res continuous bo spaced at 2-0-0 o as been designed ad nonconcurrent designed in acco IResidential Codd ind referenced sta Standard	s in the pli ind (norm End Deta esigner a ess other ttom chor oc. I for a 10.1 t with any rdance w e sections andard AN	ane of the tru al to the face ils as applica s per ANSI/Ti wise indicate d bearing. 0 psf bottom other live loa ith the 2018 R502.11.1 <i>a</i> ISI/TPI 1.	iss i), ble, Pl 1. d. ads. and					
FORCES	(lb) - Max. Comp./Ma(lb) or less except w	ax. Ten All forces hen shown.	250										
NOTES 1) Unbalanc this desig 2) Wind: AS Vasd=911 Ke=0.96; exterior z Exterior(2 27-8-8, E left and ri exposed; reactions DOL=1.6	ed roof live loads have in. iCE 7-16; Vult=115mph mph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Corner(3E 2N) 4-1-0 to 22-8-8, Cor xterior(2N) 27-8-8 to 41 ght exposed ; end verti C-C for members and fr shown; Lumber DOL=7 0	been considered fo (3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop E) -0-11-0 to 4-1-0, mer(3R) 22-8-8 to I-7-0 zone; cantileve cal left and right orces & MWFRS for 1.60 plate grip	or pe) er									PE-2022	MISSOLA NIEL X 042259

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Page: 1

41-7-0

0-11-0

3x4**≈**

26 7 80 ⊐ 80

23₂₄

A

3x6 II

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Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 5	
P230318-01	E2	Roof Special	8	1	Job Reference (optional)	159271046

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Thu Jun 29 13:03:50 ID:kkw6VMCTKypIjEPYbt576Oz_rGt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:75.3

	[0 0 4 4 0 0 0]	[0 0 0 0 0 0 10]	
Plate Offsets (X, Y):	[2:0-1-4,0-2-8],	[8:0-3-3,0-2-12],	[13:0-4-7,Edge]

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2018	8/TPI2014	CSI TC BC WB Matrix-SH	0.83 0.88 0.69	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.34 -0.69 0.21	(loc) 19-21 19-21 13	l/defl >999 >710 n/a	L/d 240 180 n/a	PLATES MT20 MT18HS Weight: 183 lb	GRIP 244/190 197/144 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS FORCES TOP CHORD BOT CHORD BOT CHORD WEBS	2x4 SP 1650F 1.5E 2x4 SP 1650F 1.5E 2x3 SPF No.2 2x3 SPF No.2 Left 2x4 SPF No.3 No.3 3-3-8 Structural wood sheat 2-7-0 oc purlins. Rigid ceiling directly bracing. 1 Row at midpt (size) 2-0-3-8, 1 Max Horiz 2=144 (LC Max Uplift 2=-344 (LL Max Grav 2=1894 (LL (lb) - Maximum Com Tension 1-2=0/0, 2-4=-4384/s 6-7=-3258/745, 7-8= 8-9=-2640/660, 9-11 11-13=-3668/761, 13 2-21=-768/4045, 19- 18-19=-476/3041, 16 15-16=-589/3228, 17.3 4-21=-312/204, 8-18 6-19=-708/229, 7-18 6-21=-72/563, 7-19= 11-16=-379/151, 9-1 11-15=0/202	*Except* 0-0:2x4 SP 3-11-3, Right 2x4 SF athing directly applied applied or 8-2-0 oc 7-18, 9-18 3=0-3-8 (212) C 8), 13=-264 (LC 13 C 1), 13=1894 (LC 13 C 1), 13=184 (LC 13 C 1)	2) PF d or 3) 4) 5) 6) 3) 7) LC 349,	Wind: ASCE Vasd=91mpf Ke=0.96; Cai exterior zone Interior (1) 4- 27-8-8, Interi and right exp exposed;C-C reactions sho DOL=1.60 All plates are All plates are All plates are All plates are All bearings a capacity of 5 This truss is International R802.10.2 ar	7-16; Vult=115mph a; TCDL=6.0psf; BC t. II; Exp C; Enclose and C-C Exterior(2 1-0 to 22-8-8, Exterior or (1) 27-8-8 to 41-10 osed; end vertical for members and f own; Lumber DOL=10 MT20 plates unless 3x4 MT20 unless c s been designed for d nonconcurrent wird are assumed to be 5 65 psi. designed in accorda Residential Code s and referenced stando Standard	(3-sec DL=6. DL=6. MW 2E) -0-1 ior(2R 7-0 zor left ancorces & 1.60 pl: s other therwi th any SP 165 ance w ections lard AN	ond gust) Dpsf; h=35ft; FRS (envelop 1-0 to 4-1-0, 0 22-8-8 to le; cantilever I right & MWFRS for ate grip wise indicate se indicated. D psf bottom other live loa 0F 1.5E crusi ith the 2018 R502.11.1 a ISI/TPI 1.	be) left d. ds. hing nd				STATE OF M NATHA FOZ	MISSOUTH NIEL
1) Unbalance	ed roof live loads have	been considered for									Wy	NUM	DER TER

this design.



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Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 5	
P230318-01	G1	Common Supported Gable	2	1	Job Reference (optional)	159271047

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Thu Jun 29 13:03:50 ID:kkw6VMCTKypIjEPYbt576Oz_rGt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Juai	- -	1.33.3

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC 0.1) Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC 0.0	6 Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB 0.1	1 Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R						Weight: 72 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 Sheathed or 6-0-0 verticals. Rigid ceiling direct bracing. (size) 12=14-1 16=14-1 16=14-1 20=-175 Max Uplift 12=-55 14=-72 17=-75 19=-112 Max Grav 12=154 14=189 16=194 18=187 20=176 (lb) - Maximum Co Tension	oc purlins, except en ly applied or 6-0-0 oc 1-0, 13=14-11-0, 1-0, 15=14-11-0, 1-0, 19=14-11-0, 1-0 0 (LC 10) (LC 13), 15=-74 (LC 12), (LC 12), 18=-71 (LC 12), (LC 12), 18=-71 (LC 12), (LC 12), 18=-71 (LC 12), (LC 12), 13=176 (LC 12), (LC 22), 15=197 (LC 12), (LC 22), 17=198 (LC 12), (LC 20), 19=189 (LC 12), (LC 20) mpression/Maximum	 Unbalanced this design. Wind: ASCE Vasd=91mp Ke=0.96; Ca exterior zon Exterior(2N) right expose for member Lumber DO Truss desig only. For st see Standa or consult q All plates ar Gable requi Truss to be braced agai This truss h chord live lo Shale studs All bearings capacity of 1 All bearings (apple) This truss is Internationa R802.10.2 a 	d roof live loads have bee E 7-16; Vult=115mph (3-s sh; TCDL=6.0psf; BCDL= at. II; Exp C; Enclosed; M e and C-C Corner(3E) -C) 4-1-0 to 7-5-8, Corner(3) 12-5-8 to 15-10-0 zone; ed; end vertical left and r s and forces & MWFRS f JL=1.60 plate grip DOL=1 gned for wind loads in the tuds exposed to wind (nor d Industry Gable End Do jualified building designer re 1.5x4 MT20 unless oth fully sheathed from one inst lateral movement (i.es s spaced at 2-0-0 oc. ias been designed for a 1 sad nonconcurrent with a s are assumed to be SP N 565 psi. s designed in accordance al Residential Code sectio and referenced standard	n considered for econd gust) 5.0psf; h=35ft; WFRS (envelo 11-0 to 4-1-0, R) 7-5-8 to 12-1 cantilever left a ght exposed;C or reactions sho 60 plane of the trr mal to the face tails as applica as per ANSI/TI erwise indicate ord bearing. ace or securely diagonal web) 0.0 psf bottom ny other live loa o.2 crushing with the 2018 ns R502.11.1 a NSI/TPI 1.	pe) 5-8, and -C own; Jss J, ble, Pl 1. d. ,				South of 1	MISSO
TOP CHORD	2-20=-143/90, 1-2: 3-4=-80/84, 4-5=-7 6-7=-116/242, 7-8: 9-10=-81/76, 10-1 19-20=-82/90, 18- 16-17=-82/90, 15- 13-14=-82/90, 12-	=0/41, 2-3=-110/106, '7/164, 5-6=-116/242, =-76/163, 8-9=-59/78, 1=0/41, 10-12=-132/85 19=-82/90, 17-18=-82/ 16=-82/90, 14-15=-82/ 13=-82/90) 90, 90,) Standard						ST NATHA FO	NIEL IN
WEBS NOTES	6-16=-180/30, 5-1 4-18=-149/154, 3- 7-15=-156/118, 8- 9-13=-127/127	7=-157/118, 19=-133/126, 14=-151/154,							A A	PE-2022	042259

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	WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 5	
P230318-01	G1A	Common Supported Gable	1	1	Job Reference (optional)	159271048

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Thu Jun 29 13:03:50 ID:kkw6VMCTKypIjEPYbt576Oz_rGt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale	=	1:39.8

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 (0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
TCDL		10.0	Lumber DOL	1.15	BC (0.06	Vert(CT)	n/a	-	n/a	999			
BCLL		0.0	Rep Stress Incr	NO	WB ().13	Horz(CT)	0.00	12	n/a	n/a			
BCDL		10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 71 lb	FT = 20%	
LUMBER TOP CHORE BOT CHORE WEBS OTHERS BRACING TOP CHORE BOT CHORE REACTIONS	 2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 2x3 SPF No.2 2x3 SPF No.2 Sheathed o verticals. Rigid ceiling bracing. (size) 1 1 2 	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	c purlins, except end applied or 6-0-0 oc -8, 13=14-10-8, -8, 15=14-10-8, -8, 17=14-10-8, -8, 19=14-10-8, -8, 19=14-10-8, -8 LC 10) C 13), 15=-74 (LC 13) C 12), 18=-71 (LC 12) LC 12), 20=-82 (LC 8) -C 19), 13=175 (LC 20) -C 20), 15=197 (LC 20) -C 20), 19=188 (LC 19) -C 20)	 Unbalanced this design. Wind: ASCE Vasd=91mpf Ke=0.96; Car exterior zone Exterior(2N) right exposed for members Lumber DOL Truss design only. For stu see Standard or consult qu All plates are 5) Gable requirit Gable requirit Gable studs : This truss ha chord live loa All bearings a capacity of 5 Thomas the struss ha chord live loa This truss is Capacity of 5 This truss is 	roof live loads have b 7-16; Vult=115mph (n; TCDL=6.0psf; BCD t. II; Exp C; Enclosed e and C-C Corner(3E) 4.1-0 to 7-5-4, Corne 12-5-4 to 15-9-8 zone d; end vertical left an and forces & MWFR =1.60 plate grip DOL ed for wind loads in 1 ds exposed to wind (d Industry Gable End alified building design e 1.5x4 MT20 unless d es continuous bottom ully sheathed from on ist lateral movement (spaced at 2-0-0 oc. is been designed for a d nonconcurrent with are assumed to be Sf 65 psi. designed in accordan Residential Code sor	een (3-sec L=6.(-0-1 r(3R) ; MW -0-1 r(3R) ; car d right S for =1.6(b =1.6(b =1.6(c i a 10.(a any > No. cce w	considered for cond gust))psf; h=35ft; FRS (envelop 1-0 to 4-1-0, 7-5-4 to 12-5 titilever left and it exposed;C-(reactions shor) ane of the tru- al to the face) ils as applicab s per ANSI/TP wise indicated d bearing. e or securely iagonal web).) psf bottom other live load 2 crushing ith the 2018 _E502111 a	e) -4, 5 wm; ss , le, 11.						
FORCES	(lb) - Maxim Tension	num Com	pression/Maximum	R802.10.2 ar	nd referenced standa	rd AN	ISI/TPI 1.					F OF I	MISSO	
TOP CHORE	2-20=-143/8 3-4=-79/84, 6-7=-116/24 9-10=-81/76	89, 1-2=0 4-5=-76, 41, 7-8=- 6, 10-11=	0/41, 2-3=-110/107, /163, 5-6=-116/241, 76/162, 8-9=-59/77, =0/41, 10-12=-131/88	LOAD CASE(S)	Standard							S NATHA	NIEL X	
BOT CHORE	D 19-20=-82/9 16-17=-82/9 13-14=-82/9	90, 18-19 90, 15-16 90, 12-13)=-82/90, 17-18=-82/90 S=-82/90, 14-15=-82/90 S=-82/90),),							XL	Manie		2
WEBS	6-16=-179/2 4-18=-149/1 7-15=-156/1 9-13=-126/1	29, 5-17= 154, 3-19 118, 8-14 126	157/118,)=-132/125, I=-151/154,								A.	PE-2022	042259	
NOTES	0 10- 120/1	0										WONA	L EL	

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Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 5	
P230318-01	G2	Common Girder	2	3	Job Reference (optional)	159271049

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Thu Jun 29 13:03:51 ID:kkw6VMCTKypljEPYbt576Oz_rGt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Max Grav 1=8618 (LC 1), 5=7642 (LC 1) FORCES (Ib) - Maximum Compression/Maximum Tension TOP CHORD 1-2=-10110/1451, 2-3=-7457/1138, 3-4=-7454/1138, 4-5=-10042/1442 BOT CHORD 1-8=-1130/7977, 7-8=-1133/8003, 6-7=-1081/7937 5-6=-1078/7911 WEBS 2-8=-432/3405, 2-7=-2379/428, 3-7=-1130/7738, 4-7=-2291/419, 4-6=-424/3326 NOTES

bracing.

Max Horiz

Scale = 1:48

Loading

TCDL

BCLL

BCDL

WEBS

LUMBER

TOP CHORD

BOT CHORD

TOP CHORD

BOT CHORD

REACTIONS (size)

BRACING

TCLL (roof)

3-ply truss to be connected together with 10d 1) (0.131"x3") nails as follows Top chords connected as follows: 2x6 - 2 rows

staggered at 0-9-0 oc. Bottom chords connected as follows: 2x10 - 4 rows staggered at 0-4-0 oc

Web connected as follows: 2x3 - 1 row at 0-4-0 oc. 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD

CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated. 3)

Unbalanced roof live loads have been considered for this design.

- All bearings are assumed to be SPF No.2 crushing 7) capacity of 425 psi.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Use Simpson Strong-Tie HUS28 (22-16d Girder, 4-16d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 1-0-0 from the left end to 13-0-0 to connect truss(es) to back face of bottom chord. 10) N/A

LOAD CASE(S) Standard

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



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MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 5	
P230318-01	G2A	Common Girder	1	3	Job Reference (optional)	159271050

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Thu Jun 29 13:03:52 ID:kkw6VMCTKypljEPYbt5760z_rGt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:46.3 Plate Offsets (X, Y): [6:0-7-4,0-1-8], [7:0-6-0,0-7-4], [8:0-7-4,0-1-8]

			-										
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2018	3/TPI2014	CSI TC BC WB Matrix-SH	0.24 0.59 0.89	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.05 -0.09 0.03	(loc) 7-8 7-8 5	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 279 lb	GRIP 185/144 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD REACTIONS FORCES TOP CHORD BOT CHORD BOT CHORD WEBS	2x6 SPF No.2 2x10 HF No.2 2x3 SPF No.2 Sheathed or 6-0-0 o Rigid ceiling directly bracing. (size) 1=0-3-8, (0-4-11) Max Horiz 1=-142 (L Max Uplift 1=-1047 (Max Grav 1=7729 (L (lb) - Maximum Com Tension 1-2=-10075/1422, 2- 3-4=-7474/1122, 4-5 1-8=-1105/7933, 7-8 6-7=-1072/8007, 5-6 2-8=-412/3322, 2-7= 3-7=-1111/7756, 4-7 4-6=-422/3374	c purlins. applied or 10-0-0 oc req. 0-4-4), 5=0-3-8, (C 31) LC 12), 5=-1154 (LC C 1), 5=-8514 (LC 1) pression/Maximum 3=-7471/1122, i=-10122/1428 i=-1108/7959, i=-1069/7981 2284/409, i=-2347/421,	(req. 5) 13) 6) 7) 8) 9) 10	 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vert: 1 Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; 13=-2 Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) 16=-2 exterior zone and C-C Exterior(2E) 0-1-12 to 5-1-12, Interior (1) 5-1-12 to 7-5-4, Exterior(2R) 7-5-4 to 12-5-4, Interior (1) 12-5-4 to 14-8-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 6) WARNING: Required bearing size at joint(s) 1, 5 greater than input bearing size. 7) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi. 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 9) Use Simpson Strong-Tie HUS28 (22-16d Girder, 4-16d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 1-9-8 from the left end to 13-9-8 to connect truss(es) to back face of bottom chord. 						13=-2133 (B), 14=-2133 (B), 15=-2133 (B), 16=-2133 (B)			
 3-ply truss (0.131"x3" Top chord staggered Bottom ch staggered Web conn All loads a except if n CASE(S) = provided t unless oth Unbalance this design 	s to be connected toget ") nails as follows: Is connected as follows at 0-9-0 oc. ords connected as follows at 0-4-0 oc. nected as follows: 2x3 - are considered equally noted as fornt (F) or back section. Ply to ply conno o distribute only loads nerwise indicated. ed roof live loads have n.	LC 1) D	DAD CASE(S) Dead + Roc Plate Increa Uniform Loa Vert: 1-3: Concentrate	Standard of Live (balanced): L ise=1.15 ads (lb/ft) =-70, 3-5=-70, 1-5=- ad Loads (lb)	-20	Increase=1.1	5,		-		PE-20220	AISSOLDA NIEL AUSSOLDA AUSSOLD	

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Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 5	
P230318-01	V1	Valley	2	1	Job Reference (optional)	159271051

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Thu Jun 29 13:03:52 ID:kkw6VMCTKypIjEPYbt576Oz_rGt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:32.7				1	
Plate Offsets (X, Y): [3:0-2-0,Edge], [4	1:0-0-0,Edge]				
-					

Loading TCLL (roof) TCDL BCLL BCDL		(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2018	3/TPI2014	CSI TC BC WB Matrix-SH	0.12 0.12 0.04	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 5	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 36 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.2 2x3 SPF No Structural w 6-0-0 oc pur Rigid ceiling bracing.	2 2 .2 rood shea rlins. g directly a	thing directly applied or 10-0-0 or	6) 7) ed or c LO	This truss ha chord live loa All bearings a capacity of 50 This truss is of International R802.10.2 ar AD CASE(S)	s been designed f id nonconcurrent v are assumed to be 55 psi. designed in accord Residential Code nd referenced star Standard	or a 10.0 with any SP No.3 dance wi sections adard AN) psf bottom other live loa 2 crushing th the 2018 R502.11.1 a SI/TPI 1.	ds. nd					
REACTIONS	(size) 1: 7: Max Horiz 1: Max Uplift 6: Max Grav 1: (L	=10-9-1, =10-9-1 =89 (LC =-95 (LC =151 (LC _C 20), 7	5=10-9-1, 6=10-9-1 9) 13), 7=-97 (LC 12) 1), 5=151 (LC 1), 6 =306 (LC 19)	6=304										
FORCES	(lb) - Maxim	um Com	pression/Maximum											
TOP CHORD	1-2=-150/33	8, 2-3=-14	7/61, 3-4=-147/61,											
BOT CHORD WEBS	4-5=-140/30 1-7=-24/110 2-7=-215/15	,), 6-7=-24 ;6, 4-6=-2	1/110, 5-6=-24/110 14/152											
NOTES 1) Unbalance this design 2) Wind: ASC Vasd=91m Ke=0.96; C exterior zo and right e exposed;C reactions s DOL=1.60 3) Truss des only. For s see Stands or consult 4) Gable requ 5) Gable stud	ed roof live loa CE 7-16; Vult= ph; TCDL=6.(Cat. II; Exp C; one and C-C E exposed ; end -C for member shown; Lumber igned for wind studs exposed ard Industry G qualified build uires continuo Is spaced at 4	ds have I 115mph Dpsf; BCI Enclosed xterior(2f vertical le ers and fc er DOL=1 I loads in d to wind able Enc ing desig us bottom -0-0 oc.	been considered for (3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop E) zone; cantilever I aft and right rrces & MWFRS for .60 plate grip the plane of the tru (normal to the face) I Details as applicat ner as per ANSI/TF n chord bearing.	r De) left uss), ble, PI 1.							-		STE OF I NATHA PE-2022	MISSOLUE NIEL BER 042259



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 5	
P230318-01	V2	Valley	2	1	Job Reference (optional)	159271052

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Thu Jun 29 13:03:52 ID:7VegtIUg48?DqlhT5TOJ?Mz8aV1-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



10-7₋0



Scale = 1:32.	4
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Plate Offsets (X, Y): [3:0-2-0,Edge], [4:0-0-0,Edge]

														_
Loading	(psf) 25.0 10.0	Spacing Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15		CSI TC BC	0.11	DEFL Vert(LL) Vert(TL)	in n/a n/a	(loc) - -	l/defl n/a n/a	L/d 999 999	PLATES MT20	GRIP 244/190	_
BCLL BCDL	10.0	Code	IRC2018	3/TPI2014	Matrix-SH	0.04		0.00	5	n/a	n/a	Weight: 36 lb	FT = 20%	
LUMBER FOP CHORD SOT CHORD DTHERS BRACING FOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x3 SPF No.2 Structural wood shea 6-0-0 oc purlins. Rigid ceiling directly bracing. (size) 1=10-7-0, 7=10-7-0 Max Horiz 1=-90 (LC Max Uplift 6=-99 (LC Max Grav 1=149 (LC (LC 20).7	athing directly applie applied or 10-0-0 oc 5=10-7-0, 6=10-7-0 : 8) : 13), 7=-100 (LC 12 : 1), 5=149 (LC 1), 6 :=302 (LC 19)	6) 7) ed or 8) 5 9) , LC) 5=301	This truss ha chord live loa * This truss h on the bottor 3-06-00 tall b chord and ar All bearings : capacity of 5 This truss is International R802.10.2 ar DAD CASE(S)	Is been designed f ad nonconcurrent as been designec n chord in all area by 2-00-00 wide wi y other members. are assumed to be 65 psi. designed in accorr Residential Code nd referenced star Standard	for a 10.0 with any I for a liv s where III fit betw SP No. dance wi sections ndard AN) psf bottom other live loa e load of 20.0 a rectangle veen the botto 2 crushing ith the 2018 R502.11.1 a ISI/TPI 1.	ds.)psf om nd						_
ORCES	(lb) - Maximum Com Tension	pression/Maximum												
FOP CHORD	1-2=-150/33, 2-3=-1- 4-5=-148/29	49/65, 3-4=-149/65,												
BOT CHORD WEBS	1-7=-24/111, 6-7=-2- 2-7=-212/161, 4-6=-2	4/111, 5-6=-24/111 211/157												
NOTES														
 Unbalanc this desig Wind: AS Wind: AS Wasd=91i Ke=1.00; exterior z and right exposed; reactions DOL=1.6 Trues de 	ed roof live loads have in. iCE 7-16; Vult=115mph mph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Exterior(2 exposed ; end vertical I C-C for members and for shown; Lumber DOL=1 0 signed for wind loads in	been considered for (3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop E) zone; cantilever I eft and right prces & MWFRS for I.60 plate grip	ne) eft							-	A	STATE OF I	MISSOLA	
											- W C	DE_2022	042259	

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

- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 oc.



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June 30,2023

Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 5	
P230318-01	V3	Valley	2	1	Job Reference (optional)	159271053

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Thu Jun 29 13:03:53 ID:ty0?Hnm2CiRkdX6xatJFZiz8aVz-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Page: 1



8-1-0

Scale = 1:27.7

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2018/TPI2014	CSI TC 0.33 BC 0.14 WB 0.04 Matrix-P 0.04	DEFL Vert(LL) Vert(TL) Horiz(TL)	in (loc) n/a - n/a - 0.00 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 27 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x3 SPF No.2 Structural wood shea 6-0-0 oc purlins. Rigid ceiling directly bracing. (size) 1=8-1-0, 3 Max Horiz 1=-67 (LC Max Uplift 1=-46 (LC Max Grav 1=182 (LC (LC 1) (lb) - Maximum Com	athing directly applied applied or 10-0-0 oc 8=8-1-0, 4=8-1-0 8) 12), 3=-54 (LC 13) 2 1), 3=182 (LC 1), 4= pression/Maximum	7) * This truss on the botto 3-06-00 tall chord and a 8) All bearings capacity of £ 9) This truss is Internationa R802.10.2 a LOAD CASE(S)	has been designed for a li m chord in all areas where by 2-00-00 wide will fit ber ny other members. are assumed to be SP No 565 psi. designed in accordance of Residential Code sectior nd referenced standard A Standard	ve load of 20.0ps a rectangle ween the bottom 0.2 crushing vith the 2018 s R502.11.1 and NSI/TPI 1.	f				
TOP CHORD BOT CHORD WEBS NOTES 1) Unbalance this design 2) Wind: ASC Vasd=91m Ke=1.00; (exterior zo and right exposed;C reactions s	Tension 1-2=-114/67, 2-3=-1(1-4=-14/54, 3-4=-14, 2-4=-193/99 ed roof live loads have n. CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Exterior(2 exposed ; end vertical I >C for members and fc shown; Lumber DOL=1	D9/67 /54 been considered for (3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelope E) zone; cantilever le eft and right prces & MWFRS for 1.60 plate grip	e) aft						STATE OF M	MISSOUR NIEL



Gable requires continuous bottom chord bearing. 4) 5) 6) Gable studs spaced at 4-0-0 oc.

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

BER PE-2022042259 ARSSIONAL ET June 30,2023



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 5	
P230318-01	V4	Valley	2	1	Job Reference (optional)	159271054

2-9-8

2-9-8

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. Thu Jun 29 13:03:53 ID:Lt2xwJZ?zoQ?i4tteW0UwKz8aWD-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

5-1-13

2-4-5



12 8 ┌



Scale = 1:24.3													
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.13	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	NO		WB	0.02	Horiz(IL)	0.00	3	n/a	n/a	Wainht 10 lb	FT 200/
BCDL	10.0	Code	IRC201	8/1912014	Matrix-P							weight: 18 lb	F1 = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x3 SPF No.2 Structural wood she 5-7-12 oc purlins. Rigid ceiling directly bracing. (size) 1=5-7-0,3 Max Horiz 1=-44 (LC Max Uplift 1=-30 (LC Max Grav 1=119 (LC (LC 1)	athing directly applie applied or 10-0-0 or 3=5-7-0, 4=5-7-0 : 10) : 12), 3=-35 (LC 13) C 1), 3=119 (LC 1), 4	7) 8) ed or 9) c L(4=184	* This truss I on the bottor 3-06-00 tall I chord and ar All bearings capacity of 5 This truss is International R802.10.2 a	nas been desig n chord in all a by 2-00-00 wic y other memt are assumed i 65 psi. designed in ar Residential C nd referenced Standard	gned for a liv areas where le will fit betw bers. to be SP No. ccordance wi ode sections standard AN	e load of 20.0 a rectangle veen the botto 2 crushing ith the 2018 i R502.11.1 a ISI/TPI 1.	Opsf om and					
FORCES	(lb) - Maximum Com	pression/Maximum											
TOP CHORD	1-2=-74/51 2-3=-71	/51											
BOT CHORD	1-4=-9/35. 3-4=-9/35	5											
WEBS	2-4=-126/80												
NOTES 1) Unbalanc: this desig 2) Wind: ASV Vasd=91r Ke=1.00; exterior zc and right exposed; reactions DOL=1.60 3) Trues designed	ed roof live loads have n. CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Exterior(2 exposed; end vertical I C-C for members and fr shown; Lumber DOL=) igned for wind loads in	been considered fo (3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop E) zone; cantilever l eft and right orcces & MWFRS for I.60 plate grip	r De) left									STATE OF J	MISSOLE

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. 4) Gable requires continuous bottom chord bearing.

Gable studs spaced at 2-0-0 oc.

5)

6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. ESSIONAL ET June 30,2023

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

PE-20220422

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





5-7-0

Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 5	
P230318-01	V5	Valley	1	1	Job Reference (optional)	159271055

4-8-11

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. Thu Jun 29 13:03:53 ID:kkw6VMCTKypIjEPYbt576Oz_rGt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

8-10-10

Page: 1

9-5-6

4-8-11 4-1-15 0-6-12 4x4 = 2 12 8 Г 3 Μ -0-1 4 3x4 🍫 3x4 💊 1.5x4 u 9-5-6



MiTek° 16023 Swingley Ridge Rd Chesterfield, MO 63017



Scale = 1:29.5

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2018/T	PI2014	CSI TC BC WB Matrix-SH	0.28 0.20 0.05	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: 31 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.2 2x3 SPF No.2 Structural wood she 6-0-0 oc purlins. Rigid ceiling directly bracing.	athing directly applie applied or 10-0-0 oc	7) <i>A</i> c 8) T li 6 d or LOA	All bearings a capacity of 50 Fhis truss is o nternational R802.10.2 ar D CASE(S)	are assumed to be 65 psi. designed in accord Residential Code nd referenced star Standard	e SP No. dance wi sections idard AN	2 crushing ith the 2018 R502.11.1 ar ISI/TPI 1.	nd					
REACTIONS	EACTIONS (size) 1=9-5-6, 3=9-5-6, 4=9-5-6 Max Horiz 1=-77 (LC 8) Max Uplifit 1=-35 (LC 12), 3=-44 (LC 13), 4=-24 (LC 12) Max Grav 1=187 (LC 1), 3=187 (LC 1), 4=362 (LC 1)												
FORCES	(lb) - Maximum Com Tension	pression/Maximum											
TOP CHORD BOT CHORD WEBS	1-2=-146/72, 2-3=-1 1-4=-15/64, 3-4=-15 2-4=-216/88	45/72 /64											
 I) Unbalance this design Wind: ASC Vasd=91m Ke=0.96; C exterior zo and right e exposed;C reactions s 	ed roof live loads have b. E 7-16; Vult=115mph ph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose ne and C-C Exterior(2 exposed; end vertical -C for members and f shown; Lumber DOL=	been considered for (3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop E) zone; cantilever le fet and right orces & MWFRS for 1.60 plate grip	e) əft									STATE OF I	MISSOLA NIEL

- 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 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 6)

Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 5	
P230318-01	V6	Valley	1	1	Job Reference (optional)	159271056

4-7-12

4-7-12

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. Thu Jun 29 13:03:53 ID:kMiNMaImlEuxpo9Itz4U4_z8aSh-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



8-10-4 4-2-9





9-3-7

Scale = 1:29.3

Loading	(p	sf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25	5.0	Plate Grip DOL	1.15		TC	0.29	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10	0.0	Lumber DOL	1.15		BC	0.21	Vert(TL)	n/a	-	n/a	999		
BCLL	C	0.0*	Rep Stress Incr	NO		WB	0.06	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10	0.0	Code	IRC2018	3/TPI2014	Matrix-SH							Weight: 31 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x3 SPF No.2 Structural wood 6-0-0 oc purlins Rigid ceiling dii bracing. (size) 1=9 Max Horiz 1=73 May Unlift 1=-3	d shea s. rectly a -3-7, 3= 8 (LC 9	thing directly applied applied or 10-0-0 oc =9-3-7, 4=9-3-7 3) 12) 3=-49 (I C 13)	7) 8) d or 9) LC	* This truss h on the bottor 3-06-00 tall b chord and ar All bearings : capacity of 5 This truss is International R802.10.2 ar DAD CASE(S)	has been designee in chord in all area by 2-00-00 wide w by other members are assumed to be 65 psi. designed in accor Residential Code nd referenced star Standard	d for a liv as where rill fit betw e SP No. rdance w sections ndard AN	e load of 20.0 a rectangle veen the botto 2 crushing ith the 2018 i R502.11.1 a ISI/TPI 1.	Dpsf om nd					
	4=-3 Max Grav 1=18 (LC	80 (LC 89 (LC 89 (LC 1)	12), 3=149 (LC 13), 1), 3=189 (LC 1), 4:	=377										
FORCES	(lb) - Maximum Tension	Comp	pression/Maximum											
TOP CHORD	1-2=-145/75, 2-	-3=-14	3/75											
BOT CHORD	1-4=-15/64, 3-4	4=-15/6	64											
WEBS	2-4=-227/100													
NOTES														
1) Unbalance	ed roof live loads	have b	been considered for											
this desigr	n.													
 Wind: AS0 	CE 7-16: Vult=115	5mph ((3-second aust)											

- 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
- 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 4-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.





Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 5	
P230318-01	V7	Valley	1	1	Job Reference (optional)	159271057

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Thu Jun 29 13:03:54 ID:c7yuCyLHpTPNIQT46p9QEqz8aSd-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

6-9-7

Page: 1



Scale - 1.25 9

00010 - 1.20.0													
Loading	(psf)	Spacing	2-0-0		CSI	0.01	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (root)	25.0	Plate Grip DOL	1.15			0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
PCU	10.0	Lumber DOL Bon Stroop Inor	1.15			0.10		11/a	-	n/a	999		
BCDI	10.0	Code	IRC201	8/TPI2014	Matrix-P	0.05	HOUS(IL)	0.00	3	n/a	n/a	Weight: 22 lb	FT - 20%
BODL	10.0	Code	11(0201	0/11/2014	Width 1							Weight. 22 lb	11 = 2070
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x3 SPF No.2 Structural wood she 6-0-0 oc purlins. Rigid ceiling directly bracing. (size) 1=6-9-7, 1 Max Horiz 1=-55 (LC Max Uplift 1=-38 (LC Max Grav 1=149 (LC (LC 1)	athing directly applie applied or 10-0-0 or 3=6-9-7, 4=6-9-7 2 10) 2 12), 3=-44 (LC 13) C 1), 3=149 (LC 1), 4	7) 8) 9d or 9) 5 Li 4=232	* This truss I on the botton 3-06-00 tall I chord and al All bearings capacity of 5 This truss is International R802.10.2 a	has been desig m chord in all al by 2-00-00 wide ny other member are assumed to i65 psi. designed in acc Residential Co nd referenced s Standard	ned for a liv reas where a will fit betw ers. b be SP No.: cordance wi de sections standard AN	e load of 20.0 a rectangle /een the botto 2 crushing ith the 2018 R502.11.1 a ISI/TPI 1.	Dpsf om Ind					
FORCES	(lb) - Maximum Com	pression/Maximum											
TOP CHORD	rension RD 1-2=-94/60 2-3=-89/60												
BOT CHORD	JRD 1-4=-11/44, 3-4=-11/44												
WEBS	2-4=-158/91												
NOTES													
1) Unbalanced roof live loads have been considered for this design													
 Wind: ASG Vasd=91n Ke=1.00; exterior zc and right e exposed; reactions 	CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Exterior(2 exposed ; end vertical C-C for members and f shown; Lumber DOL=	(3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop 2) zone; cantilever I left and right orces & MWFRS for 1.60 plate grip	oe) eft									STATE OF I	MISSOLA NIEL

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)

Gable studs spaced at 2-0-0 oc. 5)

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

> MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

BER

June 30,2023

PE-2022042259

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Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 5	
P230318-01	V8	Valley	1	1	Job Reference (optional)	159271058

2-1-12

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. Thu Jun 29 13:03:54 ID:VuBP2KPnthvon1mrLfDMPgz8aSZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

4-3-7

3-10-4





4.00 5

Scale = 1.23.5														
Loading TCLL (roof) TCDL BCLL BCDL		(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC20 ⁷	8/TPI2014	CSI TC BC WB Matrix-P	0.06 0.03 0.02	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: 13 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	 2x4 SP N 2x4 SP N 2x3 SPF Structura 4-4-3 oc Rigid ceil bracing. (size) Max Horiz 	0.2 0.2 No.2 I wood she burlins. ing directly 1=4-3-7, 3 1=-32 (10	athing directly applie applied or 10-0-0 or 3=4-3-7, 4=4-3-7	7 8 ed or 9 c L	 * This truss I on the botton 3-06-00 tall I chord and an All bearings capacity of 5 This truss is International R802.10.2 a 	has been desi, m chord in all a by 2-00-00 wich ny other membrare assumed i65 psi. designed in a Residential C nd referenced Standard	gned for a liv. areas where de will fit betw pers. to be SP No. ccordance wi code sections standard AN	e load of 20.0 a rectangle veen the botto 2 crushing th the 2018 R502.11.1 a SI/TPI 1.	Dpsf om and					
FORCES	Max Uplift Max Grav (Ib) - Max	1=-22 (LC 1=-22 (LC 1=86 (LC (LC 1) imum Com	: 12), 3=-26 (LC 13) 1), 3=86 (LC 1), 4=1 pression/Maximum	133										
TOP CHORD BOT CHORD WEBS	1-2=-54/3 1-4=-7/25 2-4=-91/6	8, 2-3=-51 , 3-4=-7/25	/38											
NOTES 1) Unbalance this design 2) Wind: AS Vasd=911 Ke=1.00; exterior z and right	ced roof live l in. iCE 7-16; Vu mph; TCDL= Cat. II; Exp one and C-C exposed ; ei	oads have It=115mph 6.0psf; BC C; Enclose Exterior(2 nd vertical l	been considered for (3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop E) zone; cantilever I eft and right croce # MWFRS for	ee) eft								Å	THE OF I	MISSOL

sed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 3) Truss designed for wind loads in the plane of the truss

only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. 4) Gable requires continuous bottom chord bearing.

Gable studs spaced at 2-0-0 oc. 5)

- 6)
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

in PE-2022042259 ASSIONAL ET June 30,2023

NATHANIEL

FOX



