

Trenco 818 Soundside Rd Edenton, NC 27932

Re: Q2402074 Value Build Homes - O'Quinn

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Carolina Structural Systems, LLC.

Pages or sheets covered by this seal: I67896072 thru I67896092

My license renewal date for the state of North Carolina is December 31, 2024.

North Carolina COA: C-0844



August 30,2024

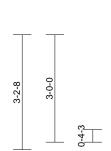
Tony Miller

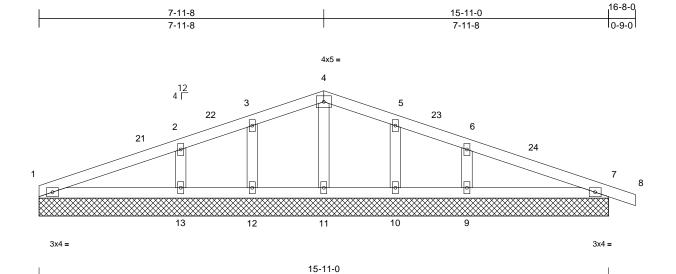
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which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

Job	Truss	Truss Type	Qty	Ply	Value Build Homes - O'Quinn	
Q2402074	A01	Common Supported Gable	1	1	Job Reference (optional)	167896072

Run: 8.73 S Aug 15 2024 Print: 8.730 S Aug 15 2024 MiTek Industries, Inc. Thu Aug 29 11:40:47 ID:7GUJJ0fguhfvtwDuhRflIzyjns0-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:32.2	2												
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	1-11-4 1.00 1.15 YES IRC20 ⁷	15/TPI2014	CSI TC BC WB Matrix-AS	0.14 0.14 0.02	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 7	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 62 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 Structural wood she Rigid ceiling directly (size) 1=15-11- 10=15-11 14=15-11 Max Horiz 1=-26 (LC Max Uplift 7=-21 (LC (LC 12), 1 12), 18=-2 Max Grav 1=134 (LC (LC 1), 10 (LC 1), 12=94	D, 7=15-11-0, 9=15-1 -0, 11=15-11-0, -0, 13=15-11-0, -0, 18=15-11-0, -1, 14=-26 (LC 10) -12), 9=-9 (LC 12), 1 2=-4 (LC 12), 13=-13 21 (LC 12) C 1), 7=183 (LC 1), 9 =98 (LC 22), 11=162 (LC 21), 13=311 (LC LC 1), 18=183 (LC 1)	4 6. 5 1-0, 7 8 0=-6 9 3 (LC 1 =303 4 (LC 2 1), 1	 only. For stu see Standarr or consult qu All plates are Gable requir Gable studs This truss ha chord live loa * This truss ha chord and ar All bearings Provide mec bearing plate 7, 4 lb uplift joint 10, 9 lb This truss de structural wor 	ned for wind loads uds exposed to wi d Industry Gable ualified building de e 2x4 MT20 unles res continuous bo spaced at 2-0-0 d as been designed ad nonconcurrent has been designed m chord in all area by 2-00-00 wide w ny other member are assumed to b chanical connectic e capable of withs at joint 12, 13 lb u uplift at joint 9 an bod sheathing be	ind (norm End Deta essigner a: so therwit ttom choo bc. for a 10.1 with any d for a liv d	al to the face ils as applica is per ANSI/TI s per ANSI/TI d bearing. O psf bottom other live load e load of 20.0 a rectangle ween the botto 2. ers) of truss t t1 lb uplift at joint 7. um of 7/16" irectly to the l), ble, DI 1. ds. Dpsf com oint lift at					
TOP CHORD	Tension 1-2=-78/29, 2-3=-52		- _{0/14} L	the bottom c		IUCK DE A	pplied directly	/ 10					
BOT CHORD WEBS	1-13=-23/69, 12-13= 10-11=0/34, 9-10=0/	0/34, 11-12=0/34,										TH CA	Route
NOTES 1) Unbalanc this design 2) Wind: AS Vasd=95 B=45ft; L MWFRS Exterior (Exterior (right export for memb	5-10=-88/92, 6-9=-2 ed roof live loads have	03/103 been considered for (3-second gust) DL=6.0psf; h=25ft; Exp B; Enclosed; orner (3) 0-0-0 to 3-0 ter (3) 7-11-8 to 10-1 ne; cantilever left and nd right exposed;C-CRS for reactions shoo	I-O, 1-8, 1								in the second se	SEA 0235	94 EER.ER.

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 BCEL Building Component Science Use Component Categories (http://www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



818 Soundside Road Edenton, NC 27932

August 30,2024

Job	Truss	Truss Type	Qty	Ply	Value Build Homes - O'Quinn	
Q2402074	A02	Common	4	1	Job Reference (optional)	167896073

7-11-8

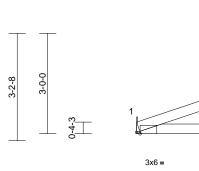
Carolina Structural Systems (Star, NC)), Ether, NC - 27247,

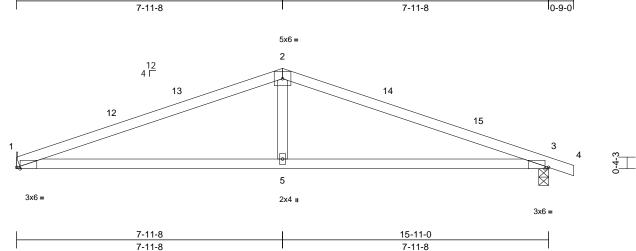
Run: 8.73 S Aug 15 2024 Print: 8.730 S Aug 15 2024 MiTek Industries, Inc. Thu Aug 29 11:40:47 ID:3ec3khhwQlvd7EMGpsiDNOyjns_-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

15-11-0

Page: 1

16-8-0





Scale = 1:34.5

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

	1.0-1-4,Eugej,	[3.0-1-4,Luge]										
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.15 YES IRC2015/TPI2014	CSI TC BC WB Matrix-AS	0.74 0.71 0.08	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.12 -0.24 0.02 0.06	(loc) 5-8 5-8 3 5-8	l/defl >999 >794 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 54 lb	GRIP 244/190 FT = 20%
BOT CHORD 2x4 S WEBS 2x4 S BRACING TOP CHORD Struc BOT CHORD (size) Max Ho Max Gr FORCES (lb) -1 Tensi TOP CHORD 1-2=-	ceiling directly 1= Mecha oriz 1=-27 (LC olift 1=-4 (LC rav 1=636 (LC Maximum Com on 1211/114, 2-3= 43/1107, 3-5=-	anical, 3=0-3-8 2 10) 12), 3=-24 (LC 12) C 1), 3=683 (LC 1) apression/Maximum =-1211/106, 3-4=0/14	d. LOAD CASE(S		tanding 4 t a minim applied d	l lb uplift at jo um of 7/16" irectly to the	bint 1 top					
NOTES 1) Unbalanced roof I this design.	ive loads have											
B=45ft; L=24ft; ea MWFRS (directior Interior (1) 3-0-0 t Interior (1) 10-11- right exposed ; en	DL=6.0psf; BC ve=4ft; Cat. II; nal) and C-C E o 7-11-8, Exter 8 to 16-8-0 zor d vertical left a forces & MWF	DL=6.0psf; h=25ft; Exp B; Enclosed; xterior (2) 0-0-0 to 3- rior (2) 7-11-8 to 10-1 he; cantilever left and and right exposed;C- RS for reactions sho	11-8, I C								OF TH CA	ROLING
 This truss has be on the bottom cho 	nconcurrent wi een designed f ord in all areas 00-00 wide will er members. umed to be: , Jo	ith any other live load or a live load of 20.0 where a rectangle fit between the botto bint 3 SP No.2.	psf						HILING.		SEA 0235	94 EER.ER.

August 30,2024

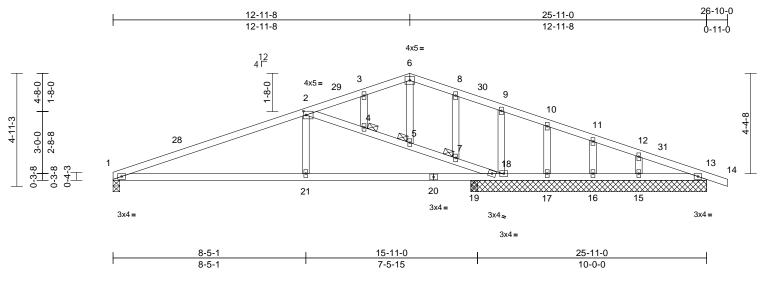


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Job	Truss	Truss Type	Qty	Ply	Value Build Homes - O'Quinn	
Q2402074	B01	Common Structural Gable	1	1	Job Reference (optional)	167896074

Run: 8.73 S Aug 15 2024 Print: 8.730 S Aug 15 2024 MiTek Industries, Inc. Thu Aug 29 11:40:48 ID:yhN?8tx5TiZe8TTJXna8kqyjnrf-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:50.3

Plate Offsets (X, Y): [2:0-1-4,0-2-0], [18:0-3-4,0-3-4]

											i	
Loading	(psf)	Spacing	1-11-4	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	тс	0.65	Vert(LL)	-0.12	21-24	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.28	21-24	>672	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.03	25	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.08	21-24	>999	240	Weight: 119 lb	FT = 20%
LUMBER TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.2 BRACING BOT CHORD Structural wood sheathing directly applied. BOT CHORD Structural wood sheathing directly applied. JOT HERS (if etcina) and C-C Exterior (2) 0-0 to 3-0-0, Interior (1) 3-0-0 to 12-11-8, Exterior (2) 12-11-8 to 15-11-8, Interior (1) 15-11-8 to 26-10-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions show; Lumber DOL=1.60 plate grip DOL=1.60 Trues designed for wild loads in the plane of the truss nip=-0-3-8, 25=10-3-8, 19=-0-3-8, 25=10-3-8 3 Max Horiz 1 =-42 (LC 10) Max Uplift 1=-11 (LC 12), 16=-11 (LC 12), 15=-3 (LC 12), 16=-11 (LC 12), 16=-34 (LC 12), 15=-12 (LC 12), 16=-34 (LC 12), 15=-12 (LC 12), 16=-32 (LC 12), 16=-14 (LC 1), 17=103 (LC 22), 18=544 (LC 1), 17=103 (LC 22), 18=544 (LC 1), 19=327 (LC 3), 25=-209 (LC 3), 10=327 (LC 3), 25=-209 (LC 3), 10=327 (LC 3), 25=-209 (LC 3), 10=327 (LC 3), 25=-209 (LC 3), 10=3												
TOP CHORD	Tension 1-2=-1264/112, 2-3= 6-8=-170/113, 8-9=- 10-11=-173/63, 11- ⁻ 12-13=-162/26, 13- ⁻	- =-205/93, 3-6=-170/10 -188/101, 9-10=-155/7	9) Provide m 9, bearing pl 8, 1, 21 lb u at joint 16 3, 13.		on (by oth standing 1 uplift at j 5 and 21	ers) of truss t 11 lb uplift at j oint 18, 11 lb lb uplift at joir	oint uplift			2 Star	OFFERE	ROJA
BOT CHORD		-18=0/144, 16-17=0/1 =0/144	44, structural the botton	wood sheathing be 1/2" gypsum sheet n chord.	applied d rock be a	irectly to the t pplied directly	/ to				SEA 0235	
NOTES	9-18=-213/61, 10-1 12-15=-147/39, 2-2 ed roof live loads have	/34, or the orie bottom ch	bottom chord. LOAD CASE(S) Standard							EER. ER. MULL		

August 30,2024

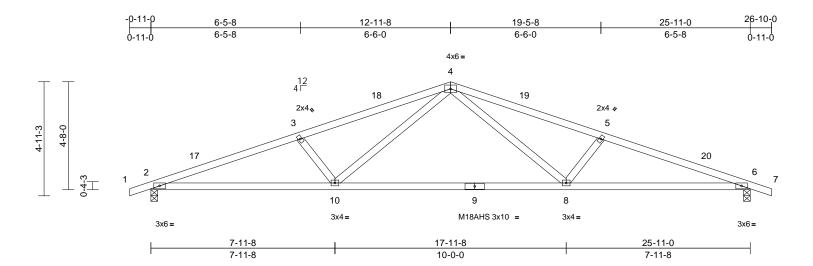


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Job	Truss	Truss Type	Qty	Ply	Value Build Homes - O'Quinn	
Q2402074	B02	Common	4	1	Job Reference (optional)	6075

Run: 8.73 S Aug 15 2024 Print: 8.730 S Aug 15 2024 MiTek Industries, Inc. Thu Aug 29 11:40:48 ID:4?ECaljFOQdZpIMcHDj9KKyjnqf-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:49.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.46	- ()	-0.25	8-10	>999	360		244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.57	8-10	>547	240	M18AHS	186/179
BCLL	0.0*	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.08	6	n/a	n/a		FT 000/
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.09	8-10	>999	240	Weight: 109 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD REACTIONS FORCES TOP CHORD	2x4 SP No.2 2x4 SP No.2 Structural wood she Rigid ceiling directly (size) 2=0-3-8, 6 Max Horiz 2=42 (LC Max Grav 2=1092 (L (lb) - Maximum Com Tension	applied. 5=0-3-8 11) 12), 6=-30 (LC 12) LC 1), 6=1092 (LC 1 pression/Maximum	bearing 2 and 30 8) This trus structura ed. chord ar the botto LOAD CASE	mechanical connecti blate capable of with b uplift at joint 6. s design requires that l wood sheathing be d 1/2" gypsum shee m chord. E(S) Standard	standing 3 at a minim applied di	0 lb uplift at um of 7/16" rectly to the	joint top					
	4-5=-2321/127, 5-6=	,										
BOT CHORD		,	/2381									
WEBS	4-8=0/818, 5-8=-423 3-10=-423/117	/117, 4-10=0/818,										
NOTES	3-10=-423/117											
 Unbalance this design Wind: AS0 Vasd=95n B=45ft; L= MWFRS (2-1-0, Inte 15-11-8, II left and rig exposed;0 	CE 7-10; Vult=120mph nph; TCDL=6.0psf; BC =26ft; eave=4ft; Cat. II; directional) and C-C E: erior (1) 2-1-0 to 12-11- nterior (1) 15-11-8 to 2 ght exposed ; end vertii C-C for members and fr shown; Lumber DOL=	(3-second gust) DL=6.0psf; h=25ft; Exp B; Enclosed; xterior (2) -0-11-0 to 8, Exterior (2) 12-11 6-10-0 zone; cantile cal left and right proces & MWFRS for) I-8 to ver								OT TH CA	ROUT

- DOL=1.60
- All plates are MT20 plates unless otherwise indicated. 3) 4) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads. 5)
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) All bearings are assumed to be SP No.2 .

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Job	Truss	Truss Type	Qty	Ply	Value Build Homes - O'Quinn	
Q2402074	B03	Common	6	1	Job Reference (optional)	167896076

Run: 8.73 S Aug 15 2024 Print: 8.730 S Aug 15 2024 MiTek Industries, Inc. Thu Aug 29 11:40:48 ID:c4CFxEvHdLeIklbhDa0vziyjnqP-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

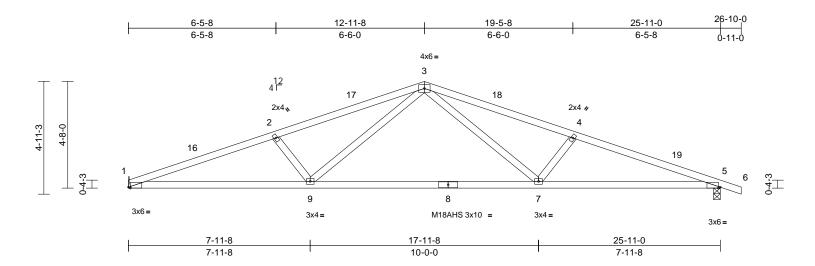


Plate Offsets (X, Y): [1:0-1-0,Edge], [5:0-1-0,Edge]

	(X, 1): [1:0 1 0;Euge];	[0.0 1 0,Edge]										
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.46	Vert(LL)	-0.25	7-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.57	7-9	>547	240	M18AHS	186/179
BCLL	0.0*	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.08	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.08	7-9	>999	240	Weight: 107 lb	FT = 20%
LUMBER FOP CHORD 30T CHORD WEBS BRACING FOP CHORD 30T CHORD REACTIONS	 2x4 SP No.2 2x4 SP No.2 Structural wood she Rigid ceiling directly 	applied. nical, 5=0-3-8 : 10) 12), 5=-31 (LC 12)	7) Refer to 8) Provide bearing j and 31 ll ed. 9) This trus structura chord an the botto LOAD CASE	are assumed to be: girder(s) for truss to mechanical connecti- blate capable of with o uplift at joint 5. s design requires thi I wood sheathing be d 1/2" gypsum shee m chord. :(S) Standard	truss conr ion (by oth istanding 7 at a minim applied d	nections. ers) of truss ' lb uplift at jo um of 7/16" irectly to the	bint 1 top					
ORCES	(lb) - Maximum Com	<i>.</i>	,									
	Tension											
TOP CHORD BOT CHORD WEBS	3-4=-2324/132, 4-5=	-2545/143, 5-6=0/1 41/1545, 5-7=-91/23										
NOTES												
	ced roof live loads have jn.	been considered fo	or									
Vasd=95r B=45ft; L= MWFRS Interior (1 15-11-8, I left and rig exposed;	CE 7-10; Vult=120mph mph; TCDL=6.0psf; BC =26ft; eave=4ft; Cat. II; (directional) and C-C E I) 3-0-0 to 12-11-8, Exte Interior (1) 15-11-8 to 2 ight exposed ; end vertii C-C for members and f shown; Lumber DOL= 0	DL=6.0psf; h=25ft; Exp B; Enclosed; xterior (2) 0-0-0 to 3 erior (2) 12-11-8 to 6-10-0 zone; cantile cal left and right orces & MWFRS for	ever							ALL	SEA 0235	• -
4) This truss	are MT20 plates unless s has been designed for a load nonconcurrent wi	a 10.0 psf bottom									N. 64.	

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



818 Soundside Road Edenton, NC 27932

R. MILLIN

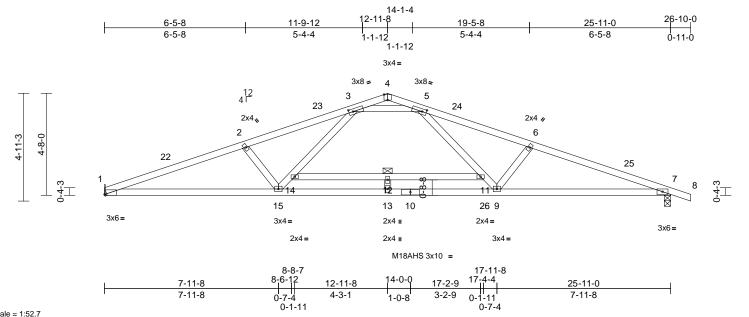
August 30,2024

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Job	Truss	Truss Type	Qty	Ply	Value Build Homes - O'Quinn	
Q2402074	B04	Common	6	1	Job Reference (optional)	167896077

Run: 8.73 S Aug 15 2024 Print: 8.730 S Aug 15 2024 MiTek Industries, Inc. Thu Aug 29 11:40:48 ID:vVEbgtpKzN4fEHp56qsVWWyjnpE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:52.7

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

	(, .). [,	[0.0 = .,0									
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.15 NO IRC2015/	/TPI2014	CSI TC BC WB Matrix-AS	0.60 0.94 0.35	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.33 -0.78 0.08 0.07	(loc) 12-14 12-14 7 11	l/defl >941 >399 n/a >999	L/d 360 240 n/a 240	PLATES MT20 M18AHS Weight: 122 lb	GRIP 244/190 186/179 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD WEBS	2x4 SP DSS *Excep 14-11:2x4 SP No.2 2x4 SP No.2 Structural wood she Rigid ceiling directly (size) 1= Mecha Max Horiz 1=-43 (LC Max Grav 1=1150 (L (lb) - Maximum Com Tension 1-2=-2914/0, 2-3=-2 4-5=-145/9, 5-6=-26 7-8=0/17	athing directly applie applied. inical, 7=0-3-8 2 10) LC 1), 7=1207 (LC 1) ipression/Maximum 700/0, 3-4=-144/12, 90/0, 6-7=-2903/0, =0/2034, 9-13=0/203 -132/0, 11-12=-132/0 =417/110, 12-13=-6 =0/766, 3-14=0/958,	6) 7) d. 8) 9) LO/ 1)	on the bottor 3-06-00 tall b chord and ar Bearings are Refer to gird Load case(s) designer mu for the intern This truss de structural wo chord and 1/ the bottom ci AD CASE(S) Dead + Roc Plate Increa Uniform Lo. Vert: 1-4	Standard of Live (balanced): ase=1.00 ads (lb/ft) =-60, 4-8=-60, 16- ed Loads (lb)	s where ill fit betv Joint 7 5 uss conr modified verify th ss. a minim applied d ock be a	a rectangle veen the bott SP No.1 . ections. d. Building at they are co um of 7/16" irectly to the oplied directl Increase=1.	tom orrect top ly to					
this desig 2) Wind: AS Vasd=957 B=45ft; L= MWFRS (Interior (1 15-11-8, I left and rig exposed; reactions DOL=1.6(3) All plates 4) This truss	CE 7-10; Vult=120mph nph; TCDL=6.0psf; BC =26ft; eave=4ft; Cat. II; directional) and C-C E) 3-0-0 to 12-11-8, Exte nterior (1) 15-11-8 to 2 ght exposed ; end verti C-C for members and f shown; Lumber DOL=	(3-second gust) DL=6.0psf; h=25ft; Exp B; Enclosed; xterior (2) 0-0-0 to 3- erior (2) 12-11-8 to 6-10-0 zone; cantilev cal left and right orces & MWFRS for 1.60 plate grip s otherwise indicated r a 10.0 psf bottom	0-0, /er I.								and the second s	SEA 0235	94

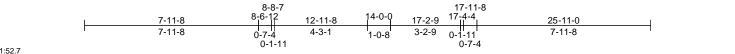
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 PCB Building Component Science Michael Component Advancing Component Advancing Component Advancing and PCB and Component Advancing Component Compone and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



11111111 August 30,2024

Job	Truss	Truss Type	Qty	Ply	Value Build Homes - O'Quinn	
Q2402074	B05	Common	1	1	Job Reference (optional)	167896078

Run: 8.73 S Aug 15 2024 Print: 8.730 S Aug 15 2024 MiTek Industries, Inc. Thu Aug 29 11:40:48 Page: 1 ID:fyiw9scDZMBtSn_V9rVfNDyjnId-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 14-1-4 12-11-8 26-10-0 6-5-8 11-9-12 19-5-8 25-11-0 6-5-8 5-4-4 6-5-8 5-4-4 0-11-0 1-1-12 3x4= 3x8 = 3x8 = 4 12 4 Г 3 5 23 24 2x4、 2x4 🍬 2 6 22 25 0-4-3 ⊤ ē 15 13 10 26 9 3x6 =3x4= 2x4 II 2x4= 3x6 = 2x4 = 2x4 II 3x4 = M18AHS 3x10 =



Scale = 1:52.7

4-11-3 4-8-0

Plate Offsets (X, Y): [1:0-0-4,Edge], [3:0-2-4,0-1-8], [4:0-2-0,Edge], [5:0-2-4,0-1-8], [7:0-0-4,Edge]

Loading (psf) TCLL (roof) 20.0 TCDL 10.0 BCLL 0.0* BCDL 10.0	Plate Grip DOL Lumber DOL Rep Stress Incr	2-1-8 1.00 1.15 NO IRC2015/TPI2014	CSI TC BC WB 4 Matrix-MS	0.73 0.80 0.37	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.34 -0.80 0.07 0.08	(loc) 12-14 12-14 7 15-18	l/defl >914 >390 n/a >999	L/d 360 240 n/a 240	PLATES MT20 M18AHS Weight: 122 lb	GRIP 244/190 186/179 FT = 20%
WEBS 2x4 SP No.2 BRACING TOP CHORD Structural wood she 2-8-13 oc purlins. BOT CHORD Rigid ceiling directly bracing.	nical, 7=0-3-8 :10) .C 1), 7=1281 (LC 1) pression/Maximum 865/0, 3-4=-121/11,	on the I 3-06-00 chord a 6) Bearing 7) Refer to 8) Load ca designe for the i LOAD CAS 1) Dead Plate Unifor Ver Conce	uss has been design pottom chord in all ar tall by 2-00-00 wide nd any other membe is are assumed to be girder(s) for truss to tase(s) 1 has/have be r must review loads ntended use of this t E(S) Standard + Roof Live (balance ncrease=1.00 m Loads (lb/ft) t: 1-4=-64, 4-8=64, intraded Loads (lb) t: 13=-50	reas where e will fit betw ers. 2: , Joint 7 S o truss conr en modifier to verify that russ. ed): Lumber	a rectangle veen the botto P DSS . ections. I. Building at they are co Increase=1.	om					

7-8=0/18 BOT CHORD 1-15=0/2885, 13-15=0/2164, 9-13=0/2164, 7-9=0/2877, 12-14=-143/0, 11-12=-143/0 WEBS 6-9=-437/114, 2-15=-441/116, 12-13=-77/0. 3-5=-1998/0, 14-15=0/808, 3-14=0/1012, 5-11=0/909, 9-11=0/800

NOTES

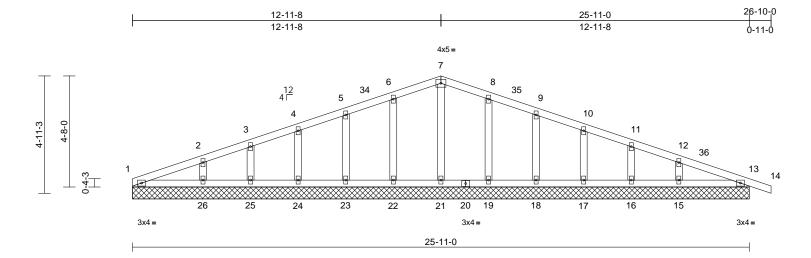
- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) 2) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 12-11-8, Exterior (2) 12-11-8 to 15-11-8, Interior (1) 15-11-8 to 26-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated. 3)
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



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Job	Truss	Truss Type	Qty	Ply	Value Build Homes - O'Quinn	
Q2402074	B06	Common Supported Gable	1	1	Job Reference (optional)	167896079

Run: 8.73 S Aug 15 2024 Print: 8.730 S Aug 15 2024 MiTek Industries, Inc. Thu Aug 29 11:40:48 ID:yeFiTJjxvdnqUw0AXA8E5dyjnkB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:48.4

			1			1								
Loading	(r	psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	2	0.0	1 1	1.00		TC	0.08	• • •	n/a	-	n/a	999	MT20	244/190
TCDL	1	0.0		1.15		BC	0.08	Vert(CT)	n/a	-	n/a	999		
BCLL		0.0*	Rep Stress Incr	YES		WB	0.04	Horz(CT)	0.00	13	n/a	n/a		
BCDL	1	0.0	Code	IRC201	5/TPI2014	Matrix-AS							Weight: 118 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING BOT CHORD BOT CHORD REACTIONS FORCES TOP CHORD	2x4 SP No.2 2x4 SP No.2 Structural woo Rigid ceiling d (size) 1=2 15= 17= 19= 22= 24= 26= 31= Max Horiz 1=- Max Uplift 13= 16= 18= 22= 24= 26= Max Grav 1=1 15= 17= 19= 22= 24= 26= 31= (lb) - Maximun T-e-56/36, 2-	lirectly 25-11-(225-11- 225-	$\begin{array}{l} 1, 3=25\cdot11\cdot0,\\ -0, 16=25\cdot11\cdot0,\\ -0, 18=25\cdot11\cdot0,\\ -0, 23=25\cdot11\cdot0,\\ -0, 23=25\cdot11\cdot0,\\ -0, 25=25\cdot11\cdot0,\\ -0, 25=25\cdot11\cdot0,\\ -0, 27=25\cdot11\cdot0,\\ -0, 27=25\cdot11\cdot0,\\ -0, 27=25\cdot11\cdot0,\\ -0, 27=-43 \ (LC \ 10)\\ C \ 12), 15=-4 \ (LC \ 12),\\ (21), 15=-4 \ (LC \ 12),\\ (21), 13=-6 \ (LC \ 12),\\ (21), 13=-6 \ (LC \ 12),\\ (21), 13=-63 \ (LC \ 12),\\ (22), 16=137 \ (LC \ 1),\\ C \ 22), 18=158 \ (LC \ 1),\\ C \ 22), 25=131 \ (LC \ 1),\\ C \ 21), 25=131 \ (LC \ 1),\\ C \ 21), 27=100 \ (LC \ 1),\\ \end{array}$	W N 1) 2) 3) , 5) 5)	VEBS Unbalanced this design. Wind: ASCE Vasd=95mp B=45ft; L=2 MWFRS (di 2-11-8, Exte to 15-11-8, I cantilever le right expose for reactions DOL=1.60 Truss desig only. For st see Standar or consult q All plates ar Gable studs This truss h chord live lo * This truss on the botto 3-06-00 tall	1-26=-13/57, 25-2 23-24=-13/57, 15- 23-24=-13/57, 15- 19-21=-13/57, 15- 7-21=-107/0, 6-22 4-24=-124/59, 3-2 8-19=-127/102, 9- 10-17=-123/58, 1' 12-15=-155/79 d roof live loads have Ξ 7-10; Vult=120m, b; TCDL=6.0psf; E 6ft; eave=2ft; Cat. rectional) and C-C erior (2) 2-11-8 to 1 Exterior (2) 15-11- eft and right expose ad;C-C for member s shown; Lumber I ned for wind loads suds exposed to wird industry Gable B ualified building de te 2x4 MT20 unless res continuous bot s spaced at 2-0-0 to as been designed machord in all area by 2-00-00 wide wird	23=-13/5 19=-13/5 16=-13/5 =-127/10 5=-105/5 18=-118, -16=-10 we been of bh (3-sec 3CDL=6.1 II; Exp B CCDref (2-11-8, of 3 to 26-1 vd; end v concer (10, of 10, o	7, 21-22=-13 7, 17-18=-13 7, 13-15=-13 3, 2-25=-118 3, 2-25=-163 (61, 8/54, considered fc cond gust) 0psf; h=25ft; ; Enclosed; 3) 0-0-0 to Corner (3) 12 0-0 zone; vertical left ar rcces & MWFF 0 plate grip ane of the tru al to the face ils as applica s per ANSI/TI se indicated. d bearing. 0 psf bottom other live load a rectangle	8/57, 3/57, 3/57, 3/57, 3/57, 3/106, 3/106, 3/106, or -11-8 ads. 0psf	bea 13, joir upl 17, upl 11) Thi stru cho the	aring pla 6 lb upli tt 24, 5 ll ift at join 8 lb upli ift at join 8 truss c uctural w ord and 1 bottom CASE(S	te capa ift at joi o uplift t 19, 7 ift at joi t 13. lesign vood sh l/2" gyl chord.	able of withstandi int 22, 7 lb uplift a at joint 25, 11 lb lb uplift at joint 1 int 16, 4 lb uplift a requires that a mi heathing be applied psum sheetrock b	Addirectly to the top be applied directly to
			0/108, 9-10=-31/82, 2=-31/32, 12-13=-31/2	1, 9)		iny other members are assumed to b		2.				and the second s	NY R.	

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 **ANSUTP11 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.sbcacomponents.com)



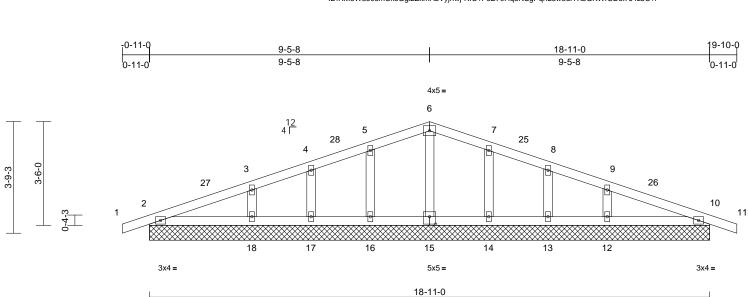
818 Soundside Road Edenton, NC 27932

August 30,2024

Job	Truss	Truss Type	Qty	Ply	Value Build Homes - O'Quinn	
Q2402074	C01	Common Supported Gable	1	1	Job Reference (optional)	167896080

Run: 8.73 S Aug 15 2024 Print: 8.730 S Aug 15 2024 MiTek Industries, Inc. Thu Aug 29 11:40:48 ID:RMoW850smCkcGgi2ZkmAbVyjnwj-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:38.9

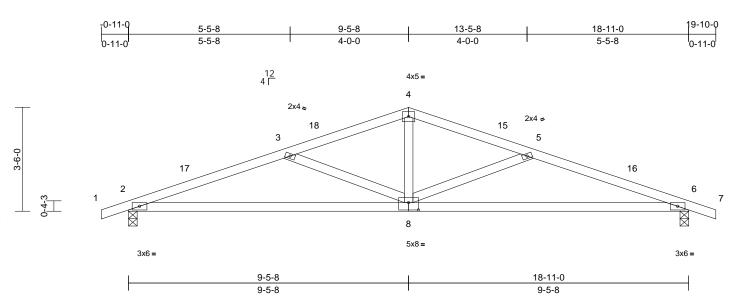
Plate Offsets (X, Y): [15:0-2-8,0-3-0]]												
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	1-11-4 1.00 1.15 YES IRC2015	5/TPI2014	CSI TC BC WB Matrix-AS	0.10 0.09 0.02	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 10	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 80 lb	GRIP 244/190 FT = 20%	
	Rigid ceiling directly (size) 2=18-11-0 12=18-11- 14=18-11 18=18-11 22=18-11 22=18-11 22=18-11 Max Horiz 2=-30 (LC Max Uplift 2=-25 (LC 14=-6 (LC 17=-7 (LC 19=-25 (L Max Grav 2=177 (LC 12=258 (L 14=173 (L 16=173 (L), 10=18-11-0, -0, 13=18-11-0, -0, 15=18-11-0, -0, 17=18-11-0, -0, 19=18-11-0, -0 : 10), 22=-30 (LC 10) : 12), 10=-25 (LC 12), : 12), 13=-7 (LC 12), : 12), 13=-7 (LC 12), : 12), 13=-5 (LC 12), : 12), 13=-5 (LC 12), : 12), 12=-25 (LC 12), : 12), 12=-25 (LC 12), : 12), 13=-114 (LC 1), .C 22), 13=114 (LC 1), .C 21), 19=177	2) 1. 3) 5) 6) 7)), 8)), 8)	this design. Wind: ASCE Vasd=95mph B=45ft; L=24 MWFRS (dirr 2-1-0, Exterio 12-5-8, Exter left and right exposed;C-C reactions sho DOL=1.60 Truss design only. For stu see Standarc or consult qu All plates are Gable studs: This truss ha chord live loa * This truss h on the bottom 3-06-00 tall b chord and an	roof live loads have 7-10; Vult=120mp n; TCDL=6.0psf; Bd ft; eave=2ft; Cat. II ectional) and C-C 0 for (2) 2-1-0 to 9-5-8 ior (2) 12-5-8 to 19 exposed ; end veri c for members and own; Lumber DOL= ed for wind loads i rds exposed to wind l ndustry Gable En alified building des excantinuous botto spaced at 2-0-0 oc s been designed for ad nonconcurrent w has been designed in chord in all areas by 2-00-00 wide will by other members. are assumed to be	h (3-see CDL=6. ; Exp B Corner (3, Corne) -10-0 z tical left forces o -1.60 pl d (norm and Deta igner a otherwi for a liv s where I fit betw	cond gust) Opsf; h=25ft; ; Enclosed; 3) -0-11-0 to er (3) 9-5-8 to one; cantileve and right & MWFRS for ate grip ane of the tru: ial to the face/ ials as applicat s per ANSI/TF se indicated. rd bearing. 0 psf bottom other live load te load of 20.0 a rectangle veen the bottom	er ss , ole, el 1. ds. psf				TH CA	ROL	
FORCES	(lb) - Maximum Com Tension 6-7=-41/99, 7-8=-31/ 9-10=-39/21, 10-11= 2-3=-41/29, 3-4=-40/ 5-6=-41/97	/74, 8-9=-38/52, :0/17, 1-2=0/17,) Provide mech bearing plate 10, 25 lb upli joint 13, 5 lb uplift at joint	hanical connection capable of withsta ft at joint 2, 6 lb up uplift at joint 12, 6 17, 5 lb uplift at join	(by oth anding 2 lift at jo Ib uplift	ers) of truss to 25 lb uplift at jo int 14, 7 lb up at joint 16, 7 l	oint lift at b				SEA		
BOT CHORD	2-18=-4/42, 17-18=-4 14-16=-4/42, 13-14= 10-12=-4/42) Beveled plate surface with	uplift at joint 2. e or shim required truss chord at joint sign requires that a	(s) 10, ⁻	19.)		1111		0235	94	
WEBS	6-15=-98/8, 7-14=-1: 9-12=-175/84, 5-16= 3-18=-175/84	29/102, 8-13=-94/52, -129/102, 4-17=-94/5		structural wo	od sheathing be ap 2" gypsum sheetro	oplied d	irectly to the t				in the	ONY R.	MILLERIN	
NOTES			LC	AD CASE(S)	Standard							Augus	t 30,2024	



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent outlapse 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.sbcacomponents.com)

Job	Truss	Truss Type	Qty	Ply	Value Build Homes - O'Quinn	
Q2402074	C02	Common	1	1	Job Reference (optional)	167896081

Run: 8.73 S Aug 15 2024 Print: 8.730 S Aug 15 2024 MiTek Industries, Inc. Thu Aug 29 11:40:48 ID:5fW2fBAOxuFviWdLGFz_41yjnwX-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:38.9

3-9-3

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

	7, 1). [0.0 + 0,0 0 0]	-	-									
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.15 YES IRC2015/TPI2014	CSI TC BC WB Matrix-AS	0.40 0.84 0.16	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.13 -0.29 0.04 0.04	(loc) 8-11 8-11 6 8-11	l/defl >999 >778 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 78 lb	GRIP 244/190 FT = 20%
	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 Structural wood she Rigid ceiling directly (size) 2=0-3-8, 6 Max Horiz 2=-31 (LC Max Uplift 2=-28 (LC Max Grav 2=812 (LC	applied. 5=0-3-8 5 10) 5 12), 6=-28 (LC 12)	bearing ; 6 and 28 7) This trus structura chord an the botto	nechanical connection plate capable of withs Ib uplift at joint 2. Is design requires tha I wood sheathing be d 1/2" gypsum sheet Im chord. (S) Standard	tanding 2 t a minim applied d	28 lb uplift at j um of 7/16" irectly to the	joint top					
FORCES TOP CHORD BOT CHORD WEBS	(lb) - Maximum Com Tension 4-5=-1286/85, 5-6=- 1-2=0/17, 2-3=-1705 2-6==90/1598 4-8=0/577, 3-8=-478	pression/Maximum 1705/141, 6-7=0/17, 5/141, 3-4=-1286/85										
NOTES 1) Unbalance this design 2) Wind: ASC Vasd=95m B=45ft; L=: MWFRS (c 2-1-0, Inter 12-5-8, Intr and right e C for mem	ed roof live loads have	been considered for (3-second gust) DL=6.0psf; h=25ft; Exp B; Enclosed; xterior (2) -0-11-0 to Exterior (2) 9-5-8 to 10-0 zone; cantilever eft and right exposer /FRS for reactions	r left								SEA	
4) * This truss on the bott 3-06-00 tal chord and	has been designed for load nonconcurrent wi s has been designed f rom chord in all areas Il by 2-00-00 wide will any other members. Is are assumed to be \$	th any other live load or a live load of 20.0 where a rectangle fit between the botto	psf						1101	annun an	0235	94 EER.ER.MILLER

August 30,2024

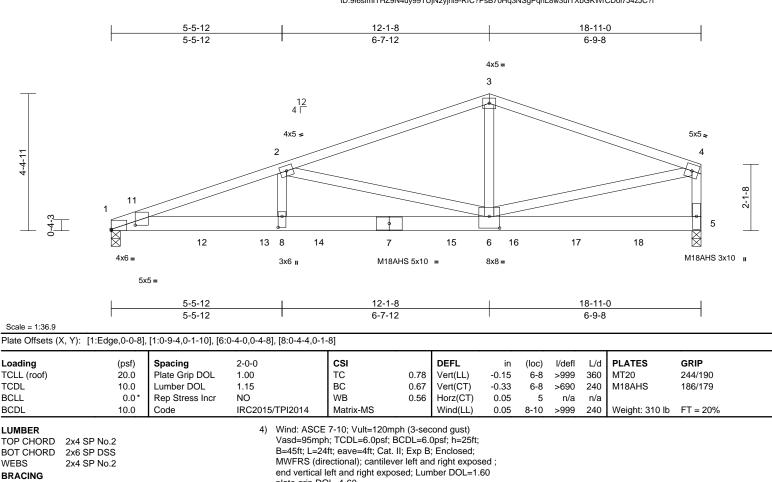
Page: 1

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 outlapse 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.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Value Build Homes - O'Quinn	
Q2402074	C03	Common Girder	1	3	Job Reference (optional)	167896082

Run: 8.73 S Aug 15 2024 Print: 8.730 S Aug 15 2024 MiTek Industries, Inc. Thu Aug 29 11:40:49 ID:9f6sImITHZ9N4uy99TUjN2yjni9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



TOP CHORD Structural wood sheathing directly applied or 4-10-1 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. REACTIONS 1=0-3-8, 5=0-3-8 (size) Max Horiz 1=73 (LC 7) Max Grav 1=5852 (LC 1), 5=5546 (LC 1) FORCES (Ib) - Maximum Compression/Maximum Tension TOP CHORD 1-2=-14227/0, 2-3=-7528/0, 3-4=-7532/0, 4-5=-4365/0 BOT CHORD 1-8=0/13435, 6-8=0/13435, 5-6=0/426

3-6=0/4362, 4-6=0/6898, 2-6=-6598/0, WEBS 2-8=0/3418NOTES

3-ply truss to be connected together with 10d 1) (0.131"x3") nails as follows Top chords connected as follows: 2x4 - 1 row at 0-4-0 OC.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

- All loads are considered equally applied to all plies, 2) except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.

plate grip DOL=1.60

- All plates are MT20 plates unless otherwise indicated. 5) This truss has been designed for a 10.0 psf bottom 6)
- chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 7) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP DSS 8) Hanger(s) or other connection device(s) shall be 9) provided sufficient to support concentrated load(s) 1017
- Ib down and 19 lb up at 0-11-0, 1016 lb down and 19 lb up at 2-11-0, 1016 lb down and 19 lb up at 4-11-0, 1130 Ib down at 6-8-0, 1199 Ib down at 8-11-0, 1130 Ib down at 10-11-0, 1130 lb down at 12-11-0, and 1130 lb down
- at 14-11-0, and 1130 lb down at 16-11-0 on bottom chord. The design/selection of such connection device (s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.00
 - Uniform Loads (lb/ft)
 - Vert: 1-3=-60, 3-4=-60, 1-5=-20 Concentrated Loads (lb)
 - Vert: 7=-1199 (F), 11=-1017 (F), 12=-1016 (F), 13=-1016 (F), 14=-1130 (F), 15=-1130 (F), 16=-1130 (F), 17=-1130 (F), 18=-1130 (F)



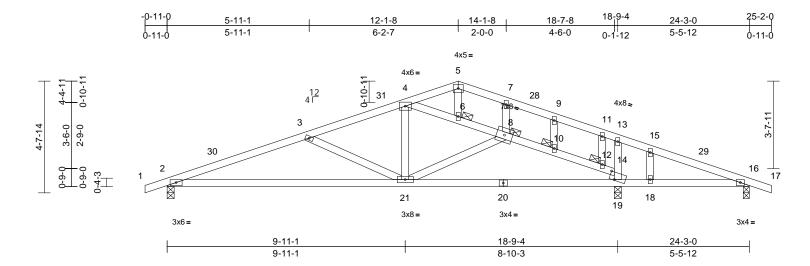
Page: 1

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 bilding 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.sbcacomponents.com)

Job	Truss	Truss Type	Qty	Ply	Value Build Homes - O'Quinn	
Q2402074	D01	Common Structural Gable	1	1	Job Reference (optional)	167896083

Run: 8.73 S Aug 15 2024 Print: 8.730 S Aug 15 2024 MiTek Industries, Inc. Thu Aug 29 11:40:49 ID:DFwgfu8CtnSQwzJvVmwzs6yjnvG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:48

Plate Offsets (X, Y): [14:0-2-10,0-3-10]

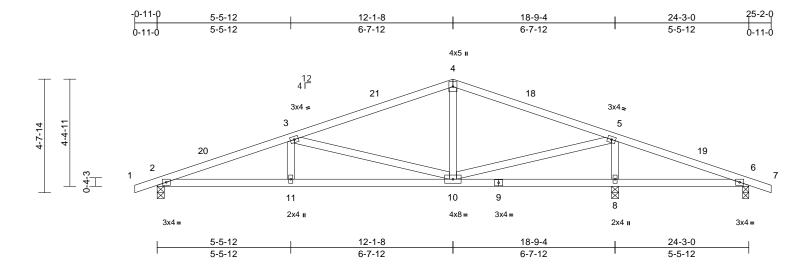
	,,,,	- 1	-		-							-
Loading	(psf)	Spacing	1-11-4	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	тс	0.46	Vert(LL)		21-27	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.83	Vert(CT)		21-27	>612	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.05	16	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)		21-27	>999	240	Weight: 120 lb	FT = 20%
					-						····g····=• ···	
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD JOINTS REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 Structural wood she Rigid ceiling directly 1 Brace at Jt(s): 6, 10, 12, 8 (size) 2=0-3-8, Max Horiz 2=38 (LC Max Uplift 2=-25 (LC 19=-63 (I Max Grav 2=821 (L)	16=0-3-0, 19=0-3-8 : 11) C 12), 16=-60 (LC 12) _C 12) C 1), 16=405 (LC 1),	Vasd=95m B=45ft; L=2 MWFRS (d 2-1-0, Inter 15-1-8, Inte and right ex porch right MWFRS fo grip DOL=1 3) Truss desig only. For s see Standa , or consult o 4) All plates a	E 7-10; Vult=120m bh; TCDL=6.0psf; I 44f; eave=4ft; Cat. irectional) and C-C ior (1) 2-1-0 to 12- erior (1) 15-1-8 to 2 eposed; end vertic exposed; C-C for n r reactions shown; .60 ned for wind loads tuds exposed to wi rd Industry Gable i qualified building de re 2x4 MT20 unles s spaced at 2-0-0 c	BCDL=6. II; Exp B Exterior 1-8, Exterior 5-2-0 zor al left and nembers Lumber I in the pl ind (norm End Deta esigner a: s otherwi	Opsf; h=25ft; ; Enclosed; (2) -0-11-0 tr ior (2) 12-1-5 te; cantilever d right expose and forces & DOL=1.60 pla ane of the tru al to the face ils as applica s per ANSI/T	3 to left ed; ate ss e), ble, PI 1.					
	19=760 (LC 1)		as been designed		0 psf bottom						
FORCES	()	npression/Maximum	'	pad nonconcurrent			ads.					
TOP CHORD	11-13=-504/59, 13- 15-16=-624/49, 16- 2-3=-1715/108, 3-4: 4-6=-826/19, 6-8=-6 10-12=-873/64, 12- 2-21=-50/1607, 19- 18-19=0/571, 16-18	17=0/17, 1-2=0/17, =-1285/60, 4-5=-433/ 301/18, 8-10=-852/58, 14=-832/43 21=-19/1207, =-37/571	on the botto 3-06-00 tall chord and a 31, 8) All bearings 9) Provide me bearing pla 16, 25 lb up	has been designed om chord in all area by 2-00-00 wide w any other members are assumed to b chanical connectic te capable of withs blift at joint 2 and 6 design requires tha	as where vill fit betw s. be SP No. on (by oth standing 6 3 lb uplift	a rectangle veen the bott 2. ers) of truss 50 lb uplift at at joint 19.	om to			1111	ANTH CA	ROLIN
WEBS NOTES 1) Unbalance this design	14-19=-581/189, 13 3-21=-479/91, 8-21 ed roof live loads have	18=-69/0, 4-21=0/446 -14=-381/218, =-110/98	, chord and the bottom 11) Graphical p	ourlin representatio tation of the purlin rd.	rock be a n does ne	pplied directly	y to				SEA 0235 ON GIN R. Augus	

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Job	Truss	Truss Type	Qty	Ply	Value Build Homes - O'Quinn	
Q2402074	D02	Common	2	1	Job Reference (optional)	167896084

Run: 8.73 S Aug 15 2024 Print: 8.730 S Aug 15 2024 MiTek Industries, Inc. Thu Aug 29 11:40:49 ID:xW9bbNIoVzQxqZ4AZD8FD8yjntn-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:47.2

00010 = 1.47.2													
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.15 YES IRC2018	5/TPI2014	CSI TC BC WB Matrix-AS	0.51 0.52 0.72	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.06 -0.15 0.03 0.04	(loc) 10-11 10-11 8 10-11	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 107 lb	GRIP 244/190 FT = 20%
	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 Structural wood shea Rigid ceiling directly (size) 2=0-3-8, 6 Max Horiz 2=-39 (LC Max Uplift 2=-29 (LC 8=-51 (LC Max Grav 2=764 (LC 8=1156 (L (Ib) - Maximum Comp Tension	applied. =0-3-0, 8=0-3-8 10) 12), 6=-73 (LC 12), 12) 2 1), 6=175 (LC 22), C 1)	7)	on the bottor 3-06-00 tall b chord and ar All bearings a Provide mec bearing plate 6, 29 lb uplift This truss de structural wo		s where ill fit betw e SP No. n (by oth anding 7 lb uplift a a minim upplied di	a rectangle veen the botto 2 . ers) of truss t 3 lb uplift at j t joint 8. um of 7/16" rectly to the t	om to joint top					
TOP CHORD	4-5=-818/85, 5-6=-23 1-2=0/17, 2-3=-1645	/95, 3-4=-815/79											
BOT CHORD WEBS	2-11=-44/1538, 10-1 8-10=-261/13, 6-8=-2 4-10=0/236, 5-8=-10 3-11=0/243, 3-10=-8	261/13 05/125, 5-10=0/1004	ŀ,										

NOTES

- Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 12-1-8, Exterior (2) 12-1-8 to 15-1-8, Interior (1) 15-1-8 to 25-2-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch 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.



Page: 1

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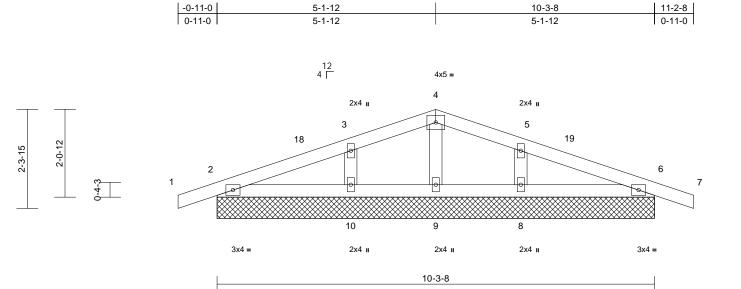


Job	Truss	Truss Type	Qty	Ply	Value Build Homes - O'Quinn	
Q2402074	E01	Common Supported Gable	1	1	Job Reference (optional)	167896085

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Page: 1



Scale	- 1	1.27	1

		1			1								;
Loading	(psf)	Spacing	1-11-4		CSI	0.00	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00		TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL BCLL	10.0 0.0*	Lumber DOL	1.15 YES		BC WB	0.07	Vert(CT)	n/a	- 6	n/a	999		
BCLL BCDL	10.0	Rep Stress Incr Code		5/TPI2014	Matrix-AS	0.02	Horz(CT)	0.00	0	n/a	n/a	Weight: 39 lb	FT = 20%
	10.0	0000										Wolght. 66 lb	11-2070
	9=10-3-8, 15=10-3-8 Max Horiz 2=-17 (LC Max Uplift 2=-29 (LC (LC 12), 1 12), 15=-2 Max Grav 2=168 (LC	applied. 6=10-3-8, 8=10-3-8, 10=10-3-8, 11=10-3 3 10), 11=-17 (LC 10) 12), 6=-29 (LC 12), 0=-4 (LC 12), 11=-29 29 (LC 12)	6 -8, 7 8=-4 8 9 (LC 9 =242	 only. For stu see Standara or consult qu Gable requir Gable studs This truss ha chord live loa * This truss h on the bottor 3-06-00 tall h chord and ar All bearings Provide mec bearing plate 2, 29 Ib uplifi 	and for wind loads dds exposed to wi d Industry Gable I lailified building de es continuous bol spaced at 2-0-0 c is been designed ad nonconcurrent has been designe m chord in all area by 2-00-00 wide w hy other members are assumed to b hanical connectio e capable of withs t at joint 6, 4 lb up	nd (norm End Deta ssigner a tom chor oc. for a 10. with any d for a liv as where ill fit betw e SP No. n (by oth tanding 2 lift at join	al to the face ils as applical is per ANSI/TF d bearing. D psf bottom other live loa e load of 20.0. a rectangle veen the botto 2. ers) of truss t y lb uplift at j t 10, 4 lb upli), ble, Pl 1. ds. Dpsf om o ont					
500050	21), 11=1	68 (LC 1), 15=168 (L	C 1)	0) This truss de	uplift at joint 2 an sign requires that	t a minim	um of 7/16"						
FORCES	(lb) - Maximum Com Tension	ipression/iviaximum			od sheathing be a 2" gypsum sheetr								
TOP CHORD	1-2=0/17, 2-3=-36/3	, ,		the bottom c		OCK DE A	pplied directly	10					
	4-5=-39/73, 5-6=-34		_ L	OAD CASE(S)	Standard								
BOT CHORD	2-10=0/32, 9-10=0/3		2	()									
WEBS	4-9=-74/26, 3-10=-1	67/136, 5-8=-167/13	D										1111.
this design 2) Wind: ASC Vasd=95m B=45ft; L= MWFRS (2-1-0, Exte 8-1-12, Ext and right e C for mem	ed roof live loads have h. CE 7-10; Vult=120mph nph; TCDL=6.0psf; BC e24ft; eave=2ft; Cat. II; directional) and C-C C erior (2) 2-1-0 to 5-1-12 tterior (2) 8-1-12 to 11- exposed ; end vertical I abers and forces & MW mber DOL=1.60 plate	(3-second gust) DL=6.0psf; h=25ft; Exp B; Enclosed; orner (3) -0-11-0 to 2, Corner (3) 5-1-12 t 2-8 zone; cantilever eft and right exposer /FRS for reactions	co left									SEA 0235	

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Job		Truss	Truss Type	Qty Ply Value Build Hor		Value Build Homes - O'Quinn	
Q240	02074	E02	Common	2	1	Job Reference (optional)	167896086

5-1-12

Carolina Structural Systems (Star, NC)), Ether, NC - 27247,

-0-11-0

0-11-0

Run: 8.73 S Aug 15 2024 Print: 8.730 S Aug 15 2024 MiTek Industries, Inc. Thu Aug 29 11:40:49 ID:I6723ybvIrvm9?lkLBYL2iyjns6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

10-3-8

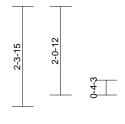


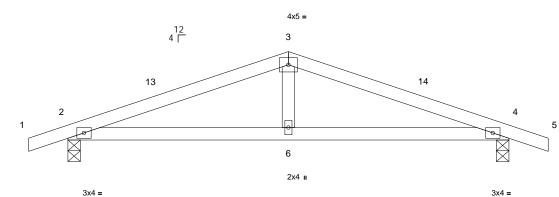
11-2-8

0-11-0

Page: 1

5-1-12 5-1-12 4x5 =







Loading	(psf)	Spacing	2-0-0	CSI		EFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC 0.1		ert(LL)	-0.02	6-12	>999	360	MT20	244/190
TCDL BCLL	10.0	Lumber DOL	1.15 YES	BC 0.3		ert(CT)	-0.05	6-12	>999 n/a	240		
BCDL	0.0* 10.0	Rep Stress Incr Code	IRC2015/TPI2014	WB 0.0 Matrix-AS		orz(CT) /ind(LL)	0.01 0.01	4 6-9	n/a >999	n/a 240	Weight: 37 lb	FT = 20%
LUMBER TOP CHORD 2 BOT CHORD 2 WEBS 2 BRACING TOP CHORD BOT CHORD REACTIONS (s	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 Structural wood she Rigid ceiling directly ize) 2=0-3-8, 4 lax Horiz 2=-18 (LC	eathing directly applie applied. 4=0-3-8 2 10) 2 12), 4=-26 (LC 12)	 6) Provide med bearing plate 2 and 26 lb of 7) This truss de structural we short out 1 	hanical connection (by e capable of withstandir uplift at joint 4. esign requires that a mi ood sheathing be applie (2" gypsum sheetrock b hord.	others) Ig 26 lb nimum d direc) of truss to b uplift at jo of 7/16" ctly to the t	oint					
	(lb) - Maximum Corr Tension	pression/Maximum										
	1-2=0/17, 2-3=-749/ 4-5=0/17	109, 3-4=-749/111,										
	2-6=-49/685, 4-6=-4 3-6=0/224	9/685										
this design. 2) Wind: ASCE Vasd=95mpl	roof live loads have 7-10; Vult=120mph h; TCDL=6.0psf; BC lft: eave=4ft: Cat_II:	DL=6.0psf; h=25ft;										

45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed MWFRS (directional) and C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 5-1-12, Exterior (2) 5-1-12 to 8-1-12, Interior (1) 8-1-12 to 11-2-8 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

3) This truss has been designed for a 10.0 psf bottom

- chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf 4) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) All bearings are assumed to be SP No.2 .



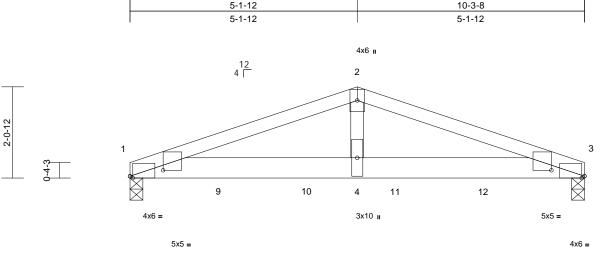
818 Soundside Road Edenton, NC 27932

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Job	Truss	Truss Type	Qty	Ply	Value Build Homes - O'Quinn	
Q2402074	E03	Common Girder	1	1	Job Reference (optional)	167896087

Run: 8.73 S Aug 15 2024 Print: 8.730 S Aug 15 2024 MiTek Industries, Inc. Thu Aug 29 11:40:49 ID:0angl?7VxMSWRm6BwQLfq_yjnrQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:26.1

Plate Offsets (X, Y): [1:0-0-12,Edge], [1:0-9-0,0-1-10], [3:0-0-12,Edge], [3:0-9-0,0-1-10]

			i i i i i i i i i i i i i i i i i i i										1	-
Loa	ading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TC	LL (roof)	20.0	Plate Grip DOL	1.00		тс	0.73	Vert(LL)	-0.09	4-6	>999	360	MT20	244/190
TC	DL	10.0	Lumber DOL	1.15		BC	0.66	Vert(CT)	-0.17	4-6	>727	240		
BC	LL	0.0*	Rep Stress Incr	NO		WB	0.48	Horz(CT)	0.03	3	n/a	n/a		
BC	DL	10.0	Code	IRC201	5/TPI2014	Matrix-MS		Wind(LL)	0.05	4-6	>999	240	Weight: 42 lb	FT = 20%
TO BO WE	MBER P CHORD T CHORD BS ACING			7)	provided suff lb down and at 4-0-0, and	other connection ficient to support of 16 lb up at 2-0-0 d 616 lb down and and 16 lb up at 8	concentra , 616 lb d d 16 lb up	ited load(s) 6 own and 16 at 6-0-0, ar	lb up nd					
	P CHORD	Structural wood she 2-4-15 oc purlins.	athing directly applie	ed or	The design/s responsibility	election of such of of others.	connectio	n device(s) is	s the					
BO	T CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 or		of the truss a	CASE(S) section are noted as front			face					
RE		(size) 1=0-3-8, 3 Max Horiz 1=-15 (LC Max Uplift 1=-36 (LC Max Grav 1=1678 (L	6) 8), 3=-34 (LC 8)	1)	Plate Increa Uniform Loa	of Live (balanced) ase=1.00 ads (lb/ft)		Increase=1.	15,					
FO	RCES	(lb) - Maximum Com		, ,		=-60, 2-3=-60, 1-3 ed Loads (lb)	3=-20							
		Tension				616 (B), 10=-616	(B) 11	616 (B) 12-	-616					
	P CHORD	1-2=-3626/94, 2-3=-			(B)	010 (B), 10=-010	(B), TI=-	010 (B), 12=	-010					
	T CHORD	1-4=-56/3411, 3-4=-	56/3411		(2)									
WE	BS	2-4=-7/1957												
NO	TES													
1)		ed roof live loads have	been considered for	r										
	this design		(a.).											
2)		CE 7-10; Vult=120mph											and the second s	in the second se
		nph; TCDL=6.0psf; BC 24ft; eave=4ft; Cat. II;											WITH CA	Rollin
		directional); cantilever		. he								.1	AR	in the second
		al left and right expose												
	plate grip I			0								er al	·····	Man C
3)		has been designed for	a 10.0 psf bottom										Q.	
- /		load nonconcurrent wi		ds.								:	SEA	1 1 5
4)	* This trus	s has been designed f	or a live load of 20.0	psf							=	:		
,	on the bot	tom chord in all areas	where a rectangle	-							=		0235	94 : =

- 4) * This truss has been designed for a live load of 20.0psi on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) All bearings are assumed to be SP DSS .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 1 and 34 lb uplift at joint 3.



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 **ANSUTPI1 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.sbcacomponents.com)

A MiTek Affiliate 818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Value Build Homes - O'Quinn	
Q2402074	V01	Valley	2	1	Job Reference (optional)	167896088

Run: 8.73 S Aug 15 2024 Print: 8.730 S Aug 15 2024 MiTek Industries, Inc. Thu Aug 29 11:40:49

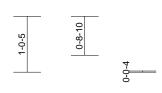


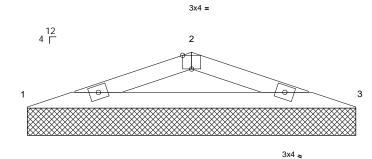
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0-10-7

2-1-13





6-0-8

3x4 =

3-0-4

3-0-4

Scale = 1:21.2

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

Loading (p TCLL (roof) 20 TCDL 10 BCLL 0 BCDL 10	Plate Grip DOLLumber DOLRep Stress Incr	2-0-0 1.00 1.15 NO IRC2015/TPI20	CSI TC BC WB 14 Matrix-MP	0.32 0.30 0.00	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.01	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 16 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 BRACING TOP CHORD Structural wood 6-0-0 oc purlins BOT CHORD Rigid ceiling di bracing. REACTIONS (size) 1=6- Max Horiz 1=-8 Max Uplift 1=-2 Max Grav 1=24	sheathing directly app ectly applied or 10-0-0)-8, 3=6-0-8 (LC 10) (LC 12), 3=-2 (LC 12) 2 (LC 1), 3=-242 (LC 1) 2 (LC 1), 3=242 (LC 1) Compression/Maximur -3=-587/179 have been considered mph (3-second gust) ; BCDL=6.0psf; h=25ft t. II; Exp B; Enclosed; C Exterior (2) zone; sed ; end vertical left <i>a</i> ters and forces & MWF r DOL=1.60 plate grip ds in the plane of the t wind (normal to the fac e End Details as applic designer as per ANSI/ ottom chord bearing. o.c. d for a 10.0 psf bottom	7) * This on the 3-06-1 chord 9) Provic oc bearin and 2 LOAD CA n for ; and FRS russ russ res, ; able, TPI 1.	14 Matrix-MP truss has been designed a bottom chord in all are 00 tall by 2-00-00 wide v and any other member arings are assumed to b de mechanical connection 10 uplift at joint 3. SE(S) Standard	as where will fit betv s. be SP No. on (by oth	a rectangle veen the botto 2 . ers) of truss t	o o				Veight: 16 Ib SEA 0235	ROJULIUM 94 EER-HAUMAN

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

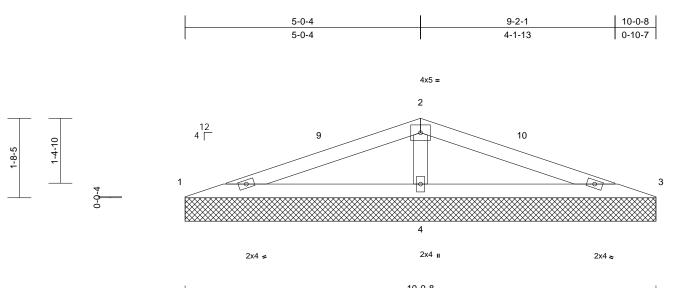


Job	Truss	Truss Type	Qty	Ply	Value Build Homes - O'Quinn
Q2402074	V02	Valley	1	1	I67896089 Job Reference (optional)

Run: 8.73 S Aug 15 2024 Print: 8.730 S Aug 15 2024 MiTek Industries, Inc. Thu Aug 29 11:40:49 ID:110KnimFJyKP?ZZgMvKPINyjntA-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Page: 1



						10-0-8	3						
Scale = 1:24.6													
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.25	Vert(TL)	n/a	-	n/a	999			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	4	n/a	n/a			
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 30 lb	FT = 20%	

LUMBER

TOP CHORD	2x4 SP N	0.2
BOT CHORD	2x4 SP N	0.2
OTHERS	2x4 SP N	0.2
BRACING		
TOP CHORD	Structural	wood sheathing directly applied.
BOT CHORD	Rigid ceili	ng directly applied.
REACTIONS	(size)	1=10-0-8, 3=10-0-8, 4=10-0-8
	Max Horiz	1=-14 (LC 10)
	Max Uplift	4=-5 (LC 12)
	Max Grav	1=113 (LC 21), 3=113 (LC 22),
		4=636 (LC 1)
FORCES	(lb) - Max	imum Compression/Maximum
	Tension	

TOP CHORD 1-2=-177/349, 2-3=-177/349

BOT CHORD 1-4=-291/162, 3-4=-291/162 2-4=-464/121 WFBS

NOTES

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

2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-12 to 3-0-12, Interior (1) 3-0-12 to 5-1-0, Exterior (2) 5-1-0 to 8-4-7, Interior (1) 8-4-7 to 10-1-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

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

This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

All bearings are assumed to be SP No.2 . 8)

Provide mechanical connection (by others) of truss to 9) bearing plate capable of withstanding 5 lb uplift at joint 4.

10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing fabricated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing fabricated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing fabricated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing fabricated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing fabricated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing fabricated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing fabricated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing fabricated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing fabricated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing fabricated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing fabricated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing fabricated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing fabricated is to prevent buckling of individual truss web and/or chord members on the permanent bracing temporary and permanent bracing temporary and permanent bracing temporary and permanent bracing tempora and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Value Build Homes - O'Quinn	
Q2402074	V03	Valley	1	1	Job Reference (optional)	167896090

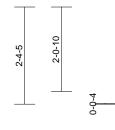
7-0-4

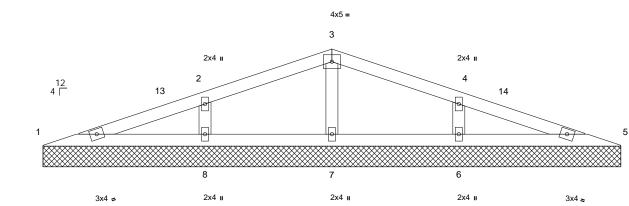
7-0-4

Carolina Structural Systems (Star, NC)), Ether, NC - 27247,

Run: 8.73 S Aug 15 2024 Print: 8.730 S Aug 15 2024 MiTek Industries, Inc. Thu Aug 29 11:40:49

Page: 1 ID:xKktlpvnUeriRPTz3QYDnvyjnt_-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 13-2-1 14-0-8 6-1-13 0-10-7 4x5 =





14-0-8

Scolo - 1.29

Scale = 1:28														
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.15 YES IRC201	5/TPI2014	CSI TC BC WB Matrix-AS	0.17 0.12 0.03	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 8	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 45 lb	GRIP 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 Structural wood she Rigid ceiling directly (size) 1=14-0-8, 7=14-0-8, 7=14-0-8, Nax Horiz 1=20 (LC Max Uplift 6=-13 (LC Max Grav 1=107 (LC	, 5=14-0-8, 6=14-0-8 , 8=14-0-8 11) C 12), 8=-13 (LC 12) C 21), 5=107 (LC 22) C 22), 7=272 (LC 1), C 21)	8) 9) , 10	This truss ha chord live loa * This truss h on the bottor 3-06-00 tall b chord and ar All bearings Provide mec bearing plate 8 and 13 b u 0) This truss de structural wo		for a 10.4 with any d for a liv s where ill fit betw e SP No. n (by oth tanding 1 a minim applied d	other live loa re load of 20.0 a rectangle veen the botto 2 . ers) of truss t 3 lb uplift at ju um of 7/16" irectly to the t	Opsf om oo oint						
TOP CHORD	1-2=-167/154, 2-3=0 4-5=-167/154	0/142, 3-4=0/142,												
BOT CHORD		111/32, 6-7=-111/32	,											
WEBS	2-8=-227/77, 4-6=-2	27/77, 3-7=-233/46												
NOTES														
this desigr	ed roof live loads have n.											and CA	Dille	

- Wind: ASCE 7-10; Vult=120mph (3-second gust) 2) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-12 to 3-0-12, Interior (1) 3-0-12 to 7-1-0, Exterior (2) 7-1-0 to 10-2-0, Interior (1) 10-2-0 to 14-1-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.



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Job	Truss	Truss Type	Qty	Ply	Value Build Homes - O'Quinn	
Q2402074	V04	Valley	1	1	Job Reference (optional)	167896091

9-0-4

9-0-4

Carolina Structural Systems (Star, NC)), Ether, NC - 27247,

Run: 8.73 S Aug 15 2024 Print: 8.730 S Aug 15 2024 MiTek Industries, Inc. Thu Aug 29 11:40:49 ID:AKJimiD5Md70ZOSzau0JrOyjnsa-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

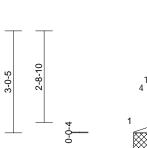
17-2-1

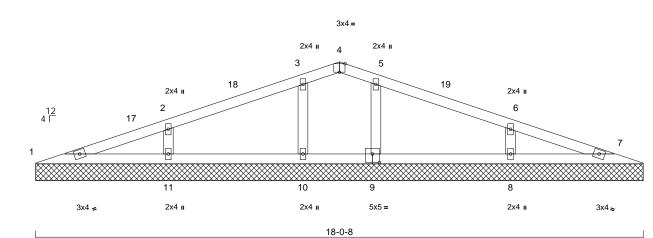
8-1-13

Page: 1

18-0-8

0-10-7





Scale = 1:34.2

Plate Offsets (X, Y): [4:0-2-0,Edge], [9:0-2-8,0-3-0]

	(/(, 1): [1:0 2 0,Eugo];	, [,] 1											-
Loading TCLL (roof) TCDL	(psf) 20.0 10.0	Spacing Plate Grip DOL Lumber DOL	2-0-0 1.00 1.15		CSI TC BC	0.26 0.15	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	0.0*	Rep Stress Incr	YES		WB	0.04	Horiz(TL)	-0.01	7	n/a	n/a		
BCDL	10.0	Code	IRC201	5/TPI2014	Matrix-AS							Weight: 61 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 Structural wood she Rigid ceiling directly (size) 1=18-0-8 9=18-0-8 16=18-0-1 Max Horiz 1=26 (LC Max Uplift 7=-1 (LC 11=-15 (L Max Grav 1=96 (LC	7=18-0-8, 8=18-0-8, 10=18-0-8, 11=18-0 8 11) 22), 8=-11 (LC 12), C 12), 16=-1 (LC 22) 21), 8=364 (LC 22), C 22), 10=322 (LC 1) C 21)	6 -8, 7 8 9	only. For stu see Standard or consult qu) Gable requir) Gable studs) This truss ha chord live loa) * This truss h on the bottor 3-06-00 tall b chord and ar) All bearings) Provide mec bearing plate 15 lb uplift at at joint 7.	ed for wind load: ds exposed to w d Industry Gable valified building d es continuous bo spaced at 4-0-0 is been designed ad nonconcurren as been designed on chord in all are by 2-00-00 wide v hanical connectif e capable of withs joint 11, 11 lb up	vind (norm End Deta lesigner a bittom chor oc. d for a 10. t with any ed for a liv eas where will fit betw s. be SP No. on (by oth standing 1 plift at join	al to the face Is as applica is per ANSI/T d bearing. 0 psf bottom other live loa e load of 20.1 a rectangle recen the bott 2. ers) of truss i lb uplift at jot t 8 and 1 lb u	i), ble, PI 1. dds. 0psf om to					
TOP CHORD	Tension		1	structural wo	sign requires that od sheathing be	applied d	rectly to the						
	4-5=0/211, 5-6=-9/2	57, 6-7=-55/259	4/50	chord and 1/ the bottom c	2" gypsum sheet hord.	trock be a	oplied directly	y to					
BOT CHORD	7-8=-210/58	,	Ύ L	OAD CASE(S)	Standard								16
WEBS	2-11=-245/76, 3-10= 5-9=-247/64	=-263/76, 6-8=-248/8	3,									WITH CA	Route
this design 2) Wind: AS0 Vasd=95n B=45ft; L= MWFRS (3-0-12, Ini 12-1-0, Ini and right e C for mem	ed roof live loads have n. CE 7-10; Vult=120mph mph; TCDL=6.0psf; BC =24ft; eave=4ft; Cat. II; directional) and C-C E terior (1) 3-0-12 to 9-1: terior (1) 12-1-0 to 17 exposed ; end vertical bers and forces & MV umber DOL=1.60 plate	(3-second gust) DL=6.0psf; h=25ft; Exp B; Enclosed; xterior (2) 0-0-12 to -0, Exterior (2) 9-1-0 -3-3 zone; cantilever le left and right exposed /FRS for reactions	eft									SEA 0235	94 EER.ER.

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 **ANSUTP11 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.sbcacomponents.com)



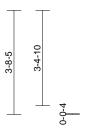
818 Soundside Road Edenton, NC 27932

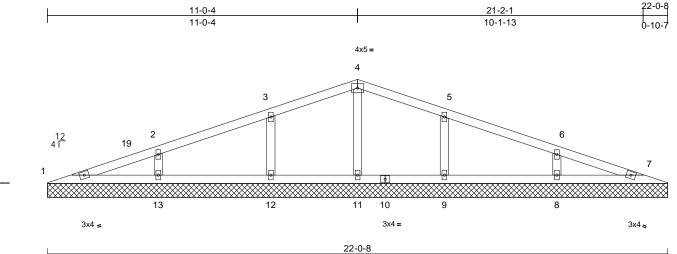
August 30,2024

ſ	Job	Truss	Truss Type	Qty	Ply	Value Build Homes - O'Quinn	
	Q2402074	V05	Valley	1	1	Job Reference (optional)	167896092

Run: 8.73 S Aug 15 2024 Print: 8.730 S Aug 15 2024 MiTek Industries, Inc. Thu Aug 29 11:40:50 ID:7_ytlCS?uTWJLJPdBNsm6OyjnsH-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:40.9

Scale = 1:40.9)												
Loading TCLL (roof) TCDL	(psf) 20.0 10.0	Spacing Plate Grip DOL Lumber DOL	2-0-0 1.00 1.15		CSI TC BC	0.26 0.15	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	0.0*	Rep Stress Incr	YES		WB	0.15	Horiz(TL)	-0.01	- 7	n/a	999 n/a		
BCDL	10.0	Code		5/TPI2014	Matrix-AS	0.00	110112(1L)	-0.01	1	II/a	n/a	Weight: 78 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD	TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 OTHERS 2x4 SP No.2 BRACING Structural wood sheathing directly applied. REACTIONS Structural wood sheathing directly applied. REACTIONS (size) 1=22-0-8, 7=22-0-8, 8=22-0-8, 13=20, 12=-13, (LC 21), 13=349, (LC 21, 13=349, (LC 21), 13=340, (L				International text of a second	nd (norm End Deta ssigner as s otherwittom chor to: for a 10. with any d for a 10. with any d for a liv as where will fit betw as e SP No. n (by oth tanding 1 o uplift at	al to the face ils as applica s per ANSI/T se indicated. d bearing. D psf bottom other live loa e load of 20.1 a rectangle veen the bott 2. ers) of truss i joint 8 and 1	i), ble, PI 1. dds. 0psf oom to				weight. 70 D	1 1 - 2070
TOP CHORD	1-2=-141/256, 2-3=- 4-5=0/245, 5-6=-6/2			structural wo	od sheathing be a 2" gypsum sheetr	applied d	irectly to the						
BOT CHORD	1-13=-208/125, 12-1 11-12=-208/54, 9-11 7-8=-208/54		^{54,} LC	the bottom chord. LOAD CASE(S) Standard									
WEBS	2-13=-243/71, 3-12= 5-9=-218/84, 4-11=-		1,									UNIT CA	Route
NOTES												AT A	Ash's D
this desig 2) Wind: AS Vasd=950 B=45ft; L MWFRS 3-0-12, Ir 14-2-0, Ir	 NOTES Unbalanced roof live loads have been considered for this design. Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-12 to 3-0-12, Interior (1) 3-0-12 to 11-1-0, Exterior (2) 11-1-0 to 14-2-0, Interior (1) 14-2-0 to 21-3-3 zone; cantilever left and right exposed; end vertical left and right exposed;C- 									1 Contraction	Con and a second	SEA 0235	• •

and right exposed ; end vertical left and right exposed C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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



August 30,2024

