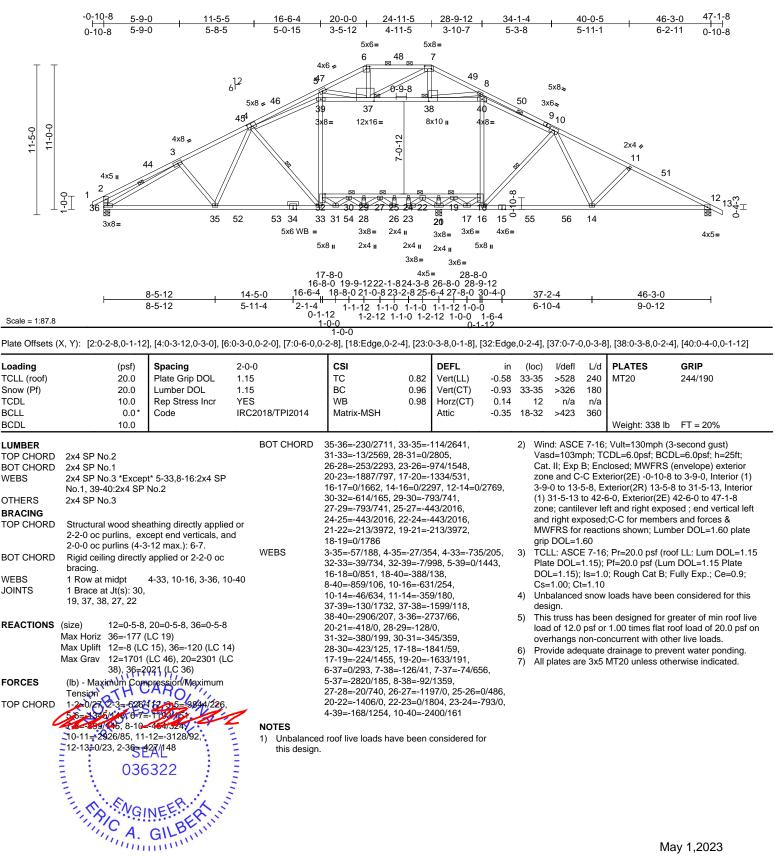
Job	Truss	Truss Type	Qty	Ply	David Weekly-10 Serenity-Roof-B329 B	
23040097-01	A	Attic	2	1	Job Reference (optional)	158053257

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 28 14:18:34 ID:ZPnjiVCN8PSJoBx1Aeirw9zMBNV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Continued on page 2



Job	Truss	Truss Type	Qty	Ply	David Weekly-10 Serenity-Roof-B329 B	
23040097-01	A	Attic	2	1	Job Reference (optional)	158053257

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Ceiling dead load (5.0 psf) on member(s). 37-39, 37-38, 38-40; Wall dead load (5.0psf) on member(s).32-39, 18-40
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 30-32, 29-30, 27-29, 25-27, 24-25, 22-24, 21-22, 19-21, 18-19
- 12) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 36 and 12. This connection is for uplift only and does not consider lateral forces.
- 13) 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.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 15) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

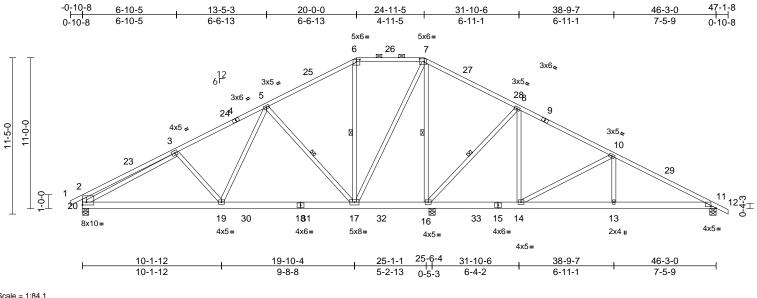
Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 28 14:18:34 ID:ZPnjiVCN8PSJoBx1Aeirw9zMBNV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 2



Job	Truss	Truss Type	Qty	Ply	David Weekly-10 Serenity-Roof-B329 B	
23040097-01	A1	Piggyback Base	2	1	Job Reference (optional)	158053258

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 28 14:18:37 ID:AN2tTm0PAKZYRWXSt4QE9WzMBzB-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:84.1

Plate Offsets (X, Y): [6:0-3-0,0-2-0], [7:0-4-0,0-2-8], [11:0-4-8,0-1-5], [20:Edge,0-2-8]

						-	· · · ·						
Loading	(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0		1.15		тс	0.95	Vert(LL)		17-19	>999	240	MT20	244/190
Snow (Pf)	20.0	1 '	1.15		BC	0.53	Vert(CT)	-0.18	17-19	>999	180		
TCDL	10.0		YES		WB	0.93	· · ·	0.03	11	n/a	n/a		
BCLL	0.0*			8/TPI2014	Matrix-MSH								
BCDL	10.0			0/11/2011			1					Weight: 319 lb	FT = 20%
LUMBER			2)		7-16; Vult=130m		0,						
TOP CHORD					ph; TCDL=6.0psf								
BOT CHORD					B; Enclosed; MW								
WEBS		t* 17-6,16-7,17-7:2x4	SP		C Exterior(2E) -0								
	No.2				5-3, Exterior(2R)			rior					
BRACING				(1) 31-5-13 to 42-6-0, Exterior(2E) 42-6-0 to 47-1-8 zone: cantilever left and right exposed; end vertical left									
TOP CHORD		athing directly applied			posed;C-C for me			IEIL					
	2-2-0 oc purlins, except end verticals, and				reactions shown;			ato					
	2-0-0 oc purlins (6-0			grip DOL=1.		_011001	2 0 L= 1.00 pic						
BOT CHORD	0 0 ,	applied or 6-0-0 oc	3		E 7-16; Pr=20.0 p	sf (roof L	· I um DOI =	1 15					
	bracing.		0,		1.15); Pf=20.0 psi								
WEBS		6-17, 7-16, 8-16, 5-17			Is=1.0; Rough Ca								
REACTIONS	ACTIONS (size) 11=0-5-8, 16=0-5-8, 20=0-5-8				=1.10	, ,	,	- ,					
	Max Horiz 20=-178 (· ·	4	Unbalanced	snow loads have	been co	nsidered for th	his					
		LC 15), 16=-166 (LC 1	5),	design.									
	20=-137 (5	This truss ha	as been designed	I for great	er of min roof	live					
		_C 37), 16=2835 (LC 4	5),		psf or 1.00 times			sf on					
	20=995 (L	,		overhangs r	non-concurrent wi	th other li	ve loads.						
FORCES	(lb) - Maximum Com	pression/Maximum	6)		quate drainage to			g.					
	Tension		7)		as been designed								
TOP CHORD					ad nonconcurrent							minin	11111
	5-6=-285/196, 6-7=-		8)		has been designe			Opsf			-	W'TH CA	Roll
		1=-979/167, 11-12=0/	23,		m chord in all are							A	Juli 1
BOT CHORD	2-20=-468/180	7 40 407/700			by 2-00-00 wide v						1.	O .: ESS	OR VI
SOT CHORD	19-20=-250/1110, 17 16-17=-586/281, 14-	,	0		ny other member			ſ.			à		Maria
	13-14=-46/809, 11-1		9		Simpson Strong-7 ed to connect trus			4.0			5	:2	K: 3
WEBS)=-26/674, 6-17=-386/6	4		(s) 20, 11, and 16					-		000	n <u>1</u> E
WEB3		4=0/603, 10-13=0/339			nd does not consi			I			1	SEA	L <u>E</u>
	3-20=-796/40, 7-17=				designed in acco							0363	22 : =
	8-16=-1026/232, 10-				Residential Code			and		-		: .	- : :
	5-17=-897/240				ind referenced sta						2	N	1. 1. 2
NOTES			1		urlin representatio			size			2.	N. En	-cRik S
) Unbalanced roof live loads have been considered for				 UPLIF1 at jt(s) 20, 11, and 16. This connection is for uplift only and does not consider lateral forces. 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or 									
this design.				bottom chor							1	C .	BEIN
0				OAD CASE(S)	Standard							11, A. G	il Linn
				C 2 0/ . 0 L (0)	Candara							A. C	UIII.
											Ma	av 1 2023	

818 Soundside Road Edenton, NC 27932

May 1,2023

Job	Truss	Truss Type	Qty	Ply	David Weekly-10 Serenity-Roof-B329 B	
23040097-01	A2	Piggyback Base	1	1	Job Reference (optional)	158053259

1-0-0

0-0-

Scale = 1:80.7

Loading

TCLL (roof)

Snow (Pf)

LUMBER

TOP CHORD

BOT CHORD

BRACING

TOP CHORD

BOT CHORD

REACTIONS

FORCES

TOP CHORD

BOT CHORD

WEBS

No.2

bracing.

Max Grav

Tension

(size)

TCDL

BCLL

BCDL

WEBS

8x10=

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 28 14:18:38 ID:xNT20ti5HLIEJWYTMdz761zMBzb-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

6-10-5 13-5-3 20-0-0 24-11-5 31-10-6 38-9-7 46-3-0 6-10-5 6-6-13 6-6-13 4-11-5 6-11-1 6-11-1 7-5-9 5x6= 5x6= 6 24 7 3x6. 12 6 23 25 3x5 🚽 3x5. 5 268 3x6 ≠ 4 9 4x5 🚽 3x5. 3 10 27 11 ღ +⊤ 0 L T ₫ X 13 18 28 129 16 30 31 14 12 15 4x5 =5x8= 2x4 II 4x5 =4x6 =4x6 =4x5= 4x5= 25-6-4 31-10-6 10-1-12 19-10-4 25-1-1 38-9-7 46-3-0 10-1-12 9-8-8 5-2-13 0-5-3 6-4-2 6-11-1 7-5-9 Plate Offsets (X, Y): [6:0-3-0,0-2-0], [7:0-4-0,0-2-8], [11:0-4-8,0-1-5], [19:Edge,0-2-8] Spacing 2-0-0 CSI DEFL in (loc) l/defl L/d PLATES GRIP (psf) 20.0 Plate Grip DOL 1.15 тс 0.95 Vert(LL) -0.11 16-18 >999 240 MT20 244/190 20.0 Lumber DOL 1.15 BC 0.53 Vert(CT) -0.18 16-18 >999 180 10.0 Rep Stress Incr WB Horz(CT) YES 0.93 0.03 11 n/a n/a 0.0 Code IRC2018/TPI2014 Matrix-MSH Weight: 318 lb 10.0 FT = 20% 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 2x4 SP No 2 Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior 2x6 SP No.2 zone and C-C Exterior(2E) -0-10-8 to 3-9-0, Interior (1) 2x4 SP No.3 *Except* 16-6,15-7,16-7:2x4 SP 3-9-0 to 13-5-3. Exterior(2R) 13-5-3 to 31-5-13. Interior (1) 31-5-13 to 41-7-8, Exterior(2E) 41-7-8 to 46-3-0 zone; cantilever left and right exposed ; end vertical left Structural wood sheathing directly applied or and right exposed:C-C for members and forces & 2-2-0 oc purlins, except end verticals, and MWFRS for reactions shown; Lumber DOL=1.60 plate 2-0-0 oc purlins (6-0-0 max.): 6-7. grip DOL=1.60 Rigid ceiling directly applied or 6-0-0 oc 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate 6-16, 7-15, 8-15, 5-16 1 Row at midpt DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 11=0-5-8, 15=0-5-8, 19=0-5-8 Cs=1.00: Ct=1.10 Max Horiz 19=-164 (LC 15) Unbalanced snow loads have been considered for this 4) Max Uplift 11=-95 (LC 15), 15=-171 (LC 15), desian. 19=-136 (I C 14) 5) This truss has been designed for greater of min roof live 11=662 (LC 37), 15=2837 (LC 45), load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on 19=989 (LC 35) overhangs non-concurrent with other live loads (Ib) - Maximum Compression/Maximum Provide adequate drainage to prevent water ponding. 6) This truss has been designed for a 10.0 psf bottom 7) 1-2=0/27, 2-3=-559/173, 3-5=-1131/198, chord live load nonconcurrent with any other live loads. ORTH 5-6=-281/198, 6-7=-159/177, 7-8=0/783, 8) * This truss has been designed for a live load of 20.0psf CAR 8-10=-296/115, 10-11=-982/164, on the bottom chord in all areas where a rectangle 2-19=-469/179 3-06-00 tall by 2-00-00 wide will fit between the bottom 18-19=-255/1099, 16-18=-112/697, chord and any other members, with BCDL = 10.0psf. 15-16=-587/272, 13-15=-51/188, One H2.5A Simpson Strong-Tie connectors 9) 12-13=-57/812, 11-12=-57/812 recommended to connect truss to bearing walls due to MULTINI, UPLIFT at jt(s) 11, 19, and 15. This connection is for SEAL

WEBS 3-18=-316/205, 5-18=-26/674, 6-16=-382/65, 7-15=-1828/190, 8-13=0/604, 10-12=0/340, 3-19=-778/38, 7-16=-170/1359, 8-15=-1027/233, 10-13=-755/192, 5-16=-887/240

NOTES

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

10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 11) Graphical purlin representation does not depict the size

uplift only and does not consider lateral forces.

or the orientation of the purlin along the top and/or bottom chord

LOAD CASE(S) Standard



818 Soundside Road Edenton, NC 27932

036322

Job	Truss	Truss Type	Qty	Ply	David Weekly-10 Serenity-Roof-B329 B	
23040097-01	A3	Piggyback Base	2	1	Job Reference (optional)	158053260

2-19=-470/179

5-16=-887/240

3-19=-787/38, 7-16=-170/1350,

1) Unbalanced roof live loads have been considered for

8-15=-1025/233, 10-13=-746/191

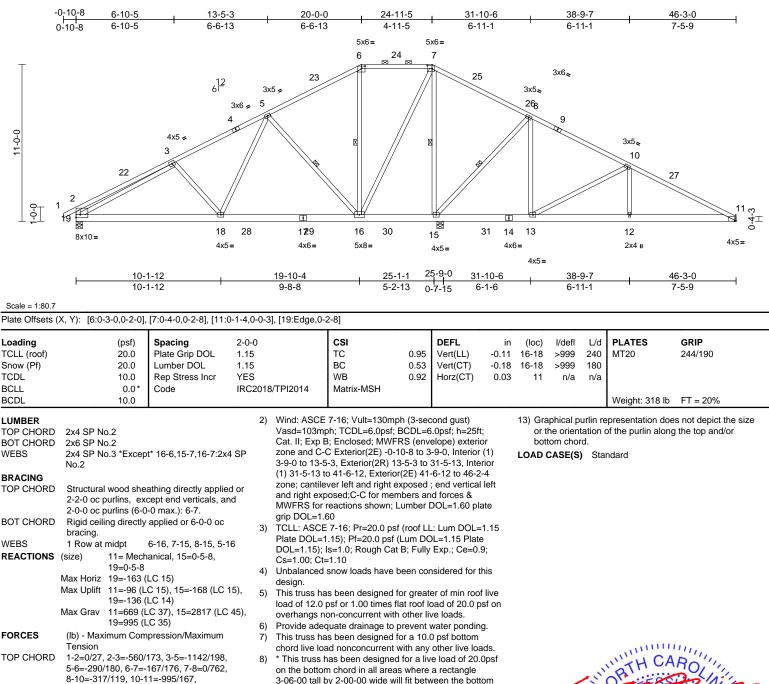
BOT CHORD

WEBS

NOTES

this design.

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 28 14:18:38 ID:tU3NtkWhqkPM0CvazzBc?tzMBzq-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



- 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf. 18-19=-255/1108, 16-18=-112/705, 9) Refer to girder(s) for truss to truss connections. 15-16=-568/267, 13-15=-44/206, 10) Provide mechanical connection (by others) of truss to 12-13=-60/823, 11-12=-60/823 bearing plate capable of withstanding 96 lb uplift at joint 3-18=-314/205, 5-18=-26/673, 6-16=-377/65,
- 11. 7-15=-1810/188, 8-13=0/601, 10-12=0/336, 11) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 19 and 15. This connection is for uplift only and does not consider lateral forces.
 - 12) 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.

G

minn

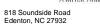
May 1,2023

SEAL

036322

WILLIAM DATE

- ununununun



Job	Truss	Truss Type	Qty	Ply	David Weekly-10 Serenity-Roof-B329 B	
23040097-01	A4	Piggyback Base	2	1	Job Reference (optional)	158053261

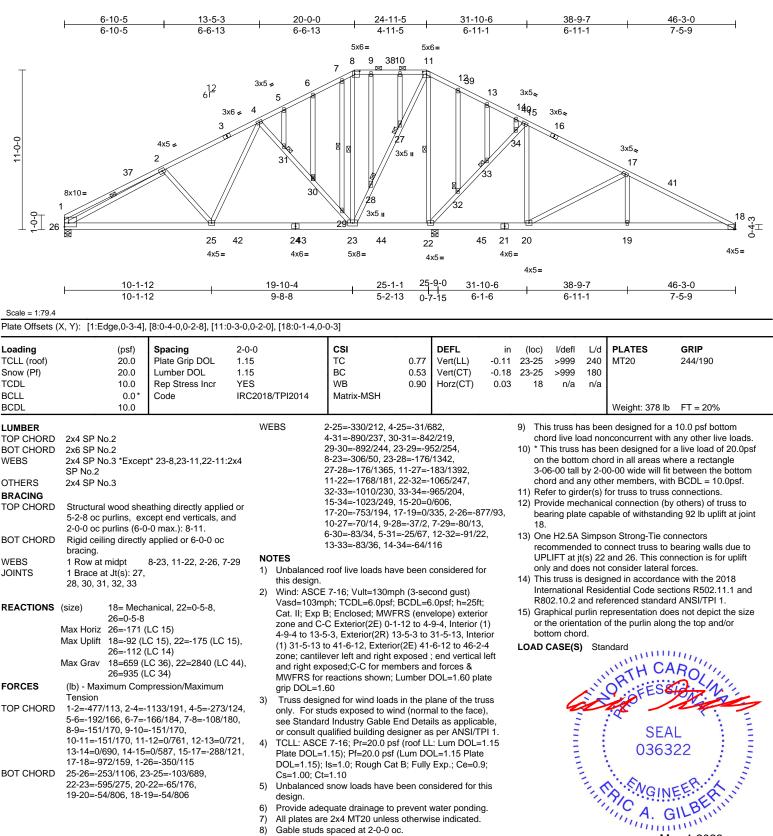
Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 28 14:18:39 ID:SHDhqgFqYTAFw4NPKQp_EkzMC?T-RfC?PsB70Hq3NSqPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

6-10-5 20-0-0 31-10-6 38-9-7 46-3-0 13-5-3 24-11-5 6-10-5 6-6-13 6-6-13 4-11-5 6-11-1 6-11-1 7-5-9 5x6= 5x6= 5 23 6 3x6 👟 24 22 12 61 3x5**≈** 3x5 🚽 4 257 3x6 🚽 3 8 1-0-0 4x5 🞜 3x5 2 9 2 26 8x10= 10 ° 10 °4-10 ° è⊥ 18 X 12 17 27 1628 15 29 30 13 11 14 4x5= 4x5= 4x6= 5x8= 4x6= 2x4 II 4x5= 4x5= 25-9-0 10-1-12 19-10-4 25-1-1 31-10-6 38-9-7 46-3-0 10-1-12 9-8-8 5-2-13 0-7-15 6-1-6 6-11-1 7-5-9 Scale = 1:79.4 Plate Offsets (X, Y): [1:Edge,0-3-4], [5:0-3-0,0-2-0], [6:0-4-0,0-2-8], [10:0-1-4,0-0-3] 2-0-0 Spacing CSI DEFL in l/defl L/d PLATES GRIP Loading (psf) (loc) TCLL (roof) 20.0 Plate Grip DOL 1.15 тс 0.95 Vert(LL) -0.11 15-17 >999 240 MT20 244/190 Snow (Pf) 20.0 Lumber DOL 1.15 BC 0.53 Vert(CT) -0.18 15-17 >999 180 TCDL 10.0 Rep Stress Incr WB YES 0.92 Horz(CT) 0.03 10 n/a n/a BCLL 0.0 Code IRC2018/TPI2014 Matrix-MSH Weight: 316 lb BCDL 10.0 FT = 20% LUMBER 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) LOAD CASE(S) Standard Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; TOP CHORD 2x4 SP No 2 Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior BOT CHORD 2x6 SP No.2 zone and C-C Exterior(2E) 0-1-12 to 4-9-4, Interior (1) WEBS 2x4 SP No.3 *Except* 15-5,15-6,14-6:2x4 SP 4-9-4 to 13-5-3, Exterior(2R) 13-5-3 to 31-5-13, Interior No.2 (1) 31-5-13 to 41-6-12, Exterior(2E) 41-6-12 to 46-2-4 BRACING zone; cantilever left and right exposed ; end vertical left TOP CHORD Structural wood sheathing directly applied or and right exposed:C-C for members and forces & 2-2-0 oc purlins, except end verticals, and MWFRS for reactions shown; Lumber DOL=1.60 plate 2-0-0 oc purlins (6-0-0 max.): 5-6 grip DOL=1.60 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 bracing. Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate WEBS 1 Row at midpt 4-15. 5-15. 6-14. 7-14. DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 2-18 Cs=1.00: Ct=1.10 **REACTIONS** (size) 10= Mechanical, 14=0-5-8, 4) Unbalanced snow loads have been considered for this 18=0-5-8 desian. Max Horiz 18=-171 (LC 15) Provide adequate drainage to prevent water ponding. 5) Max Uplift 10=-95 (LC 15), 14=-170 (LC 15), This truss has been designed for a 10.0 psf bottom 6) 18=-114 (LC 14) chord live load nonconcurrent with any other live loads. Max Grav 10=666 (LC 36), 14=2825 (LC 44), 7) * This truss has been designed for a live load of 20.0psf 18=940 (LC 34) THE CASE on the bottom chord in all areas where a rectangle FORCES (lb) - Maximum Compression/Maximum 3-06-00 tall by 2-00-00 wide will fit between the bottom RTH Tension chord and any other members, with BCDL = 10.0psf. TOP CHORD 1-2=-480/115, 2-4=-1142/195, 4-5=-283/183, 8) Refer to girder(s) for truss to truss connections 5-6=-161/172, 6-7=0/770, 7-9=-310/116, 9) Provide mechanical connection (by others) of truss to 9-10=-988/164, 1-18=-354/116 bearing plate capable of withstanding 95 lb uplift at joint BOT CHORD 17-18=-255/1112, 15-17=-108/700, 10. STITUTE COMPANY 14-15=-575/270, 12-14=-53/200, 10) One H2.5A Simpson Strong-Tie connectors 11-12=-58/817, 10-11=-58/817 recommended to connect truss to bearing walls due to SEAL WEBS 2-17=-326/209, 4-17=-29/680, UPLIFT at jt(s) 14 and 18. This connection is for uplift 036322 only and does not consider lateral forces 4-15=-887/240, 5-15=-381/68 6-15=-173/1355, 6-14=-1818/194, 11) This truss is designed in accordance with the 2018 7-14=-1022/233, 7-12=0/601, 9-12=-746/191, International Residential Code sections R502.11.1 and 9-11=0/336, 2-18=-881/95 R802.10.2 and referenced standard ANSI/TPI 1. 12) Graphical purlin representation does not depict the size NOTES or the orientation of the purlin along the top and/or Unbalanced roof live loads have been considered for 1) G bottom chord. minn this design. May 1,2023



Job	Truss	Truss Type	Qty	Ply	David Weekly-10 Serenity-Roof-B329 B	
23040097-01	A4SE	Piggyback Base Structural Gable	1	1	Job Reference (optional)	158053262

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 28 14:18:39 ID:97jmf?YRCesUy9xFwEmOuVzMC0N-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



May 1,2023

Page: 1



Job	Truss	Truss Type	Qty	Ply	David Weekly-10 Serenity-Roof-B329 B	
23040097-01	A5	Нір	1	1	Job Reference (optional)	158053263

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 28 14:18:40 ID:E9GQhRE8mtRqfkVPk9TW5qzMCB5-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

5-7-12 11-0-0 18-7-12 26-3-9 39-9-15 46-3-0 33-11-5 5-7-12 5-4-4 7-7-12 7-7-12 7-7-12 5-10-9 6-5-1 5x6= 3x5= 5x8= 5x6= 4 22 3 21 2<u>3</u> 24 5 25 6 6¹² ^{3x5} 7 26 27 28 3x5 🞜 2 0-9-9 20 29 9 9 8 0-4-3 ⊢ Ð Ð [⊠]32 16 15 30 14 13 31 33 11 10 9 8x10= 4x5= 2x4 🛛 4x5= 4x5= 4x5= 4x8= 4x6= 4x6= 4x5= 25-9-0 || 0-2-12 39-9-15 5-7-12 10-10-4 18-7-12 25-6-4 34-1-1 46-3-0 5-7-12 5-2-8 7-9-8 6-10-8 8-4-1 5-8-13 6-5-1

Scale = 1:79

Plate Offsets (X, Y): [3:0-4-0,0-2-8],	[5:0-4-0,0-3-4], [6:0-	4-0,0-2-8]	, [8:0-1-4,0-0-3	3], [17:Edge,0-6-8]								
Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018	3/TPI2014	CSI TC BC WB Matrix-MSH	0.82 0.52 0.89	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.06 -0.11 0.02	(loc) 13-15 13-15 8	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 292 lb	GRIP 244/190 FT = 20%
	$\begin{array}{llllllllllllllllllllllllllllllllllll$				7-16; Vult=130mp bh; TCDL=6.0psf; E 3; Enclosed; MWFF C Exterior(2E) 0-1- i-8, Interior (1) 17-6 to 40-5-13, Interio 41-6-12 to 46-2-4 z d; end vertical left and forces & MWF =1.60 plate grip D0 i-7-16; Pr=20.0 psf (15); Pf=20.0 psf (15); Pf=20.0 psf (15); Pf=20.0 psf (15); Nough Cat =1.10 snow loads have b quate drainage to p is been designed for ad nonconcurrent w	3CDL=6 RS (env 12 to 4- 3-8 to 27 r (1) 40 20 one; cz and right RS for DL=1.61 (roof LL Lum DC B; Fully een cor revent for r a 10.4 i ith any	.0psf; h=25ft; elope) exterior 9-4, Exterior(7-4-13, Exterior(5-13 to 41-6- intilever left a it exposed;C- reactions sho 0: :: Lum DOL= 1)L=1.15 Plate Exp.; Ce=0.9 asidered for the water ponding 0 psf bottom other live loa	or 2R) or 12, nd C own; 1.15 1.15 0; J. ds.	LOAD	CASE(S)) Sta	ndard	
TOP CHORD	Tension 1-2=-1537/217, 2-3= 3-4=-501/171, 4-6=- 7-8=-1377/218, 1-17	1091/217, 391/769, 6-7=-575/1 /=-981/161	8)	on the bottor 3-06-00 tall t chord and ar Refer to gird		where I fit betw with BC	a rectangle veen the botto DL = 10.0psf nections.	om				TH CA	ROUT
BOT CHORD WEBS NOTES 1) Unbalance	16-17=-119/310, 15- 13-15=-99/905, 12-1 10-12=-639/178, 9-1 8-9=-120/1154 2-16=-51/113, 2-15= 3-13=-672/78, 4-13= 5-12=-1218/271, 5-1 6-10=-275/101, 7-10 1-16=-88/1001	'1, 224, 64, 11								• –			
this design			or the orientation of the purlin along the top and/or bottom chord.							ILBENIN			

May 1,2023

Page: 1



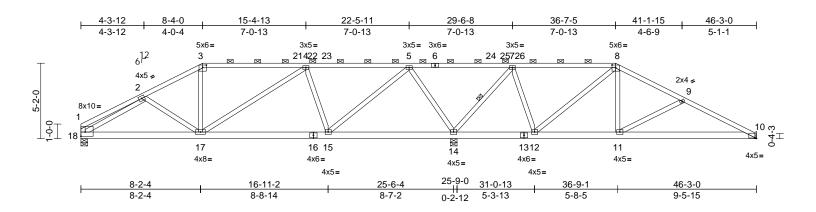
Job	Truss	Truss Type	Qty	Ply	David Weekly-10 Serenity-Roof-B329 B	
23040097-01	A6	Нір	1	1	Job Reference (optional)	158053264

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 28 14:18:41 ID:aIU11ihHbkeL8g_Z2VekD8zMCBp-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

May 1,2023

818 Soundside Road Edenton, NC 27932

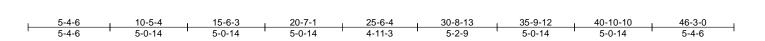


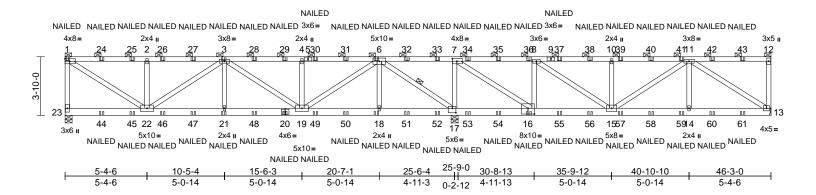
Scale = 1:78.9

Plate Offsets	(X, Y): [1:Edge,0-3-8]	, [3:0-3-0,0-2-0], [8:0-3-0,0)-2-0], [10):0-1-4,0-0-	5]								
Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 20.0 10.0 0.0* 10.0	Spacing2-0Plate Grip DOL1.1Lumber DOL1.1Rep Stress IncrYECodeIR0	5 5	2014	CSI TC BC WB Matrix-MSH	0.92 0.45 0.91	DEFL Vert(LL) Vert(CT) Horz(CT)		(loc) 11-20 11-20 10	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 279 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x6 SP No.2 2x4 SP No.3 Structural wood she 4-9-8 oc purlins, ex 2-0-0 oc purlins (2-2 Rigid ceiling directly bracing. 1 Row at midpt (size) 10= Mecl 18=0-5-8 Max Horiz 18=-78 (L Max Uplift 10=-117 18=-135 Max Grav 10=823 (18=966 (eathing directly applied or ccept end verticals, and 2-0 max.): 3-8. / applied or 6-0-0 oc 7-14 hanical, 14=0-5-8, LC 15) (LC 15), 14=-258 (LC 10), (LC 14) LC 42), 14=2464 (LC 37), LC 40)	Va Ca zoi 4-9 (2F zoi anı MV grij 3) TC Pla DC Cs 4) Un de: 5) Pric 5) Pric	asd=103mp at. II; Exp E one and C-C 9-4 to 14-1 80, 30-0-13 nne; cantile dright exp WFRS for r ip DOL=1.6 to CLL: ASCE ate DOL=1 DL=1.15); I =-1.00; Ct= nbalanced s rsign. ovide adec his truss ha	7-16; Pr=20.0 psf .15); Pf=20.0 psf (l s=1.0; Rough Cat l	CDL=6 S (env. 12 to 4- 10-8 to or(2E) 4 posed bers an umber I (roof LL Lum DC B; Fully een cor revent or or a 10.0	.0psf; h=25ft; elope) exterior 9-4, Exterior(30-0-13, Extt ; end vertical d forces & DOL=1.60 pla .: Lum DOL=: L=1.15 Plate Exp.; Ce=0.§ nsidered for th water ponding 0 psf bottom	r 2R) erior 2-4 left te 1.15 y; j.	LOAD	CASE(S)) Sta	ndard	
FORCES	Tension 1-2=-341/61, 2-3=-1 4-5=-702/171, 5-7=- 8-9=-780/186, 9-10-	npression/Maximum 1098/214, 3-4=-963/219, -72/1036, 7-8=-62/153, =-1267/259, 1-18=-297/65	on 3-0 cho 8) Re	the botton 06-00 tall b ord and an efer to girde	as been designed n chord in all areas y 2-00-00 wide will y other members. er(s) for truss to tru	where fit betv ss conr	a rectangle veen the botto nections.	, om				TH CA	Rojin
BOT CHORD	17-18=-221/1118, 1 14-15=-345/133, 12 11-12=-22/579, 10- ⁻	-14=-219/132,		aring plate	nanical connection capable of withsta					6	i	O'ÉÉSS	Mar 2
WEBS NOTES 1) Unbalanc this desig	4-15=-696/197, 5-1 5-14=-1431/258, 7- 7-12=-3/564, 8-12= 9-11=-568/170, 2-1 ed roof live loads have	14=-1410/237, -735/85, 8-11=0/479, 8=-1065/197	rec UF onl 11) Th Inte R8 12) Gra or	commende PLIFT at jt(ily and doe his truss is o ternational 302.10.2 ar raphical pu	simpson Strong-Tie d to connect truss s) 14 and 18. This s not consider late designed in accord Residential Code s d referenced stand rlin representation tion of the purlin al	to bear connec ral force ance w sections dard AN does no	ing walls due tion is for upli es. ith the 2018 is R502.11.1 a ISI/TPI 1. ot depict the s	ft nd		THILLINK.		SEA 0363	E.R. K.

Job	Truss	Truss Type	Qty	Ply	David Weekly-10 Serenity-Roof-B329 B	
23040097-01	A7GR	Flat Girder	1	1	Job Reference (optional)	158053265

Run: 8,53 S Mar 9 2023 Print: 8,530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 28 14:18:47 ID:MzC3fFp7GD?OvuFJV4QSxMzMCI5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:75.5

Plate Offsets (X, Y): [7:0-3-8,0-2-0], [16:0-5-0,0-4-8], [17:0-2-12,0-3-8]

Plate Olisets (X, Y): [7:0-3-8,0-2-0],	[16:0-5-0,0-4-8], [17:0-2	2-12,0-	3-8]	-								
Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 20.0 10.0 0.0* 10.0	Plate Grip DOL1Lumber DOL1Rep Stress IncrN	-0-0 .15 .15 IO RC201	8/TPI2014	CSI TC BC WB Matrix-MSH	0.98 0.58 0.90	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.11 -0.19 0.03	(loc) 19-21 19-21 13	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 299 lb	GRIP 244/190 FT = 20%
	SP No.2 2-0-0 oc purlins (3-1 end verticals. Rigid ceiling directly bracing. 1 Row at midpt (size) 13= Mech 23=0-5-8 Max Horiz 23=-119 (Max Uplift 13=-242 (23=-384 (t* 22-1,16-7,13-11:2x4 1-15 max.): 1-12, excep applied or 4-7-8 oc 6-17 tanical, 17=0-5-8, LC 10) LC 8), 17=-962 (LC 9), LC 8) (LC 1), 17=4129 (LC 1),) ot 2) 3) 4) 5) 6)	Vasd=103m Cat. II; Exp I zone; cantile and right exp DOL=1.60 TCLL: ASCE Plate DOL=' DOL=1.15); Cs=1.00; Ct: Unbalanced design. Provide ader This truss ha chord live loo * This truss ha chord live loo 3-06-00 tall I	7-16; Vult=130mp bh; TCDL=6.0psf; J 3; Enclosed; MWF ver left and right e bosed; Lumber DO 5: 7-16; Pr=20.0 psf 1.15); Pf=20.0 psf 1.15); Pf=20.0 psf 1.10; Rough Cat =1.10 snow loads have t quate drainage to p as been designed f ad nonconcurrent has been designed m chord in all area: by 2-00-00 wide wi by other members.	BCDL=6 RS (env xposed L=1.60 (Lum DC B; Fully been cor prevent for a 10. with any I for a liv s where Il fit betw	.0psf; h=25ft; elope) exterior end vertical olate grip .: Lum DOL=: L=1.15 Plate Exp.; Ce=0.9 asidered for the water ponding 0 psf bottom other live loa e load of 20.0 a rectangle	or left 1.15 o; ds. Opsf	(0.1 14) In ti of ti LOAD (1) De Inc	48"x3.2 he LOAI he truss CASE(S ead + Sr crease= hiform Lo	5") toe D CASI are no) Stai now (ba 1.15 oads (II 12=-60	ted as front (F) o ndard alanced): Lumber b/ft) 1, 13-23=-20	uidlines. Is applied to the face
FORCES	(lb) - Maximum Com Tension 1-23=-1356/407, 1-2 2-3=-1812/437, 3-4= 4-6=-1865/443, 6-7= 8-10=-1110/291, 10- 11-12=-63/44, 12-13	2=-1812/437, =-1865/443, =-553/2285, 7-8=-82/208 -11=-1110/291,	7) 8) 9)	Refer to gird Provide med bearing plate joint 13. One H2.5A S recommende	er(s) for truss to tru hanical connectior capable of withst Simpson Strong-Tin ed to connect truss	uss conr n (by oth anding 2 e conne s to bear	ers) of truss t 42 lb uplift at ctors ing walls due	to			A. A.	OR FESS	ROUT
BOT CHORD	22-23=-95/101, 21-2 19-21=-611/2381, 14 17-18=-93/243, 15-1 14-15=-299/1184, 13	22=-611/2381, 8-19=-93/243, 17=-2285/554,	10	does not cor H10A Simps connect trus	(s) 23. This connect nsider lateral forces on Strong-Tie connections s to bearing walls	s. nectors due to U	ecommende PLIFT at jt(s)	d to 17.		6	N	SEA	L
WEBS NOTES	1-22=-500/2129, 2-2 3-22=-688/180, 3-21 4-19=-575/261, 6-19 6-17=-3088/725, 7-1 7-16=-580/2557, 8-1 8-15=-313/1403, 10-	22=-621/284, 1=0/276, 3-19=-623/160, 9=-467/1963, 6-18=0/247 17=-2090/604, 16=-1381/445,	7, 12	 lateral forces This truss is International R802.10.2 a Graphical put 	designed in accord Residential Code nd referenced star Irlin representation ation of the purlin a	dance w sections idard AN i does no	ith the 2018 R502.11.1 a ISI/TPI 1. ot depict the s	nd			Contract of the second s	SEA 0363	EERHAU



Job	Truss	Truss Type	Qty	Ply	David Weekly-10 Serenity-Roof-B329 B	
23040097-01	A7GR	Flat Girder	1	1	Job Reference (optional)	158053265

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 28 14:18:47 ID:MzC3fFp7GD?OvuFJV4QSxMzMCI5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 2



Job	Truss	Truss Type	Qty	Ply	David Weekly-10 Serenity-Roof-B329 B	
23040097-01	В	Common	7	1	Job Reference (optional)	158053266

Loading

TCDL

BCLL

BCDL

WEBS

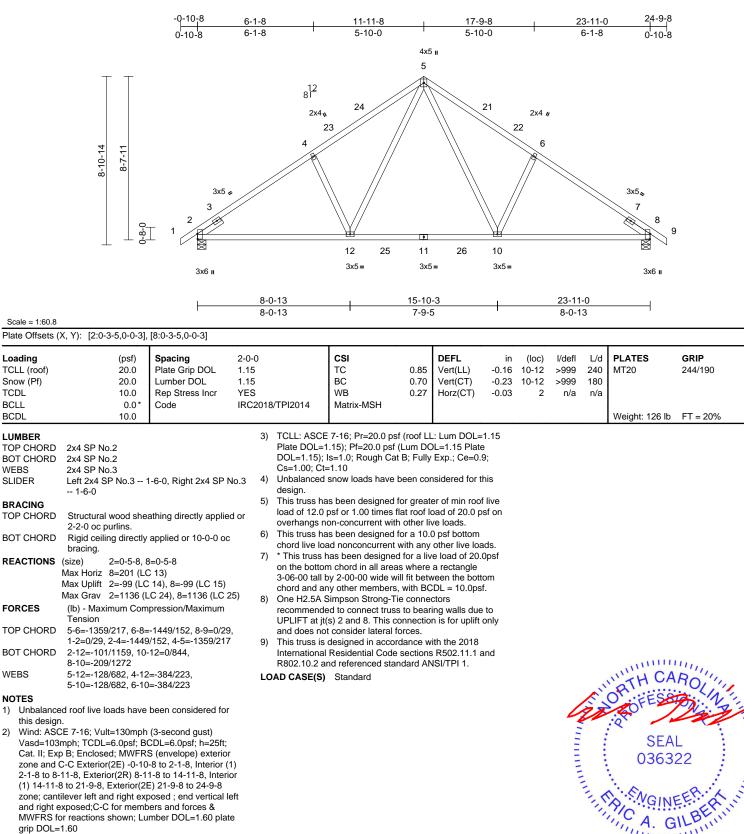
WEBS

NOTES

2)

SLIDER

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 28 14:18:49 ID:IEMM7m2s8ARrjqRghTN8EGzMCQr-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



 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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



mm May 1,2023 1111111111

Job	Truss	Truss Type	Qty	Ply	David Weekly-10 Serenity-Roof-B329 B	
23040097-01	B1	Нір	1	1	Job Reference (optional)	158053267

13-5-3

10-5-13

Carter Components (Sanford), Sanford, NC - 27332,

-0-10-8

5-4-10

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 28 14:18:49 ID:A4ZwKcHPRJy?7vzWsgkq2UzMCQX-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

18-6-6

Page: 1

24-9-8

23-11-0

818 Soundside Road Edenton, NC 27932

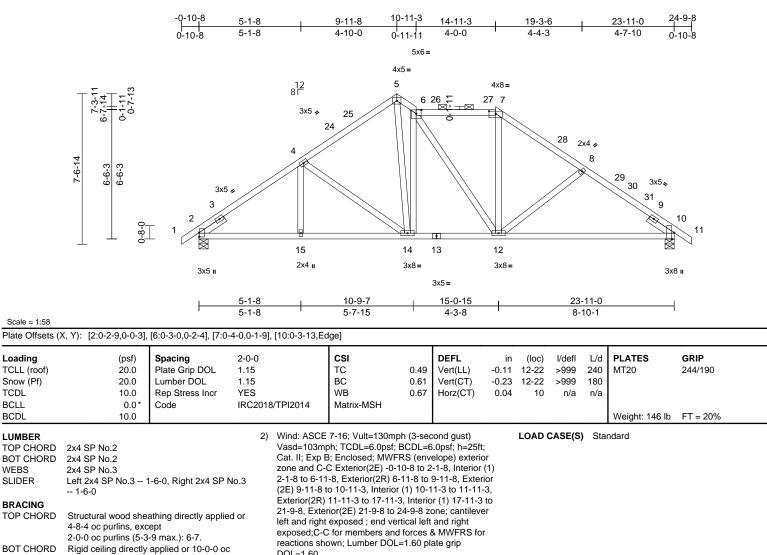
			4-10 4-10	<u>10-5-13</u> 5-1-2	+ 13-5- 2-11-		<u>18-6-6</u> 5-1-3		<u>23-11-0</u> 5-4-11	0-10-8
		0-10-0			5x6=	4x8=				0-10-0
	7-11-1 7-6-3 7-6-3 0-1-11	3x5 = 24 2 1 3x6 II	8 ¹ ² 3x5 * 27 4 25 26 15 2x4 II		5 29	12	30	31 7	32 33 34	8 9 10 3x6 ⊪
Scale = 1:55.7			4-10 4-10	<u>10-4-1</u> 4-11-6	13-6- 3-2-1		<u>18-6-6</u> 4-11-7		23-11-0 5-4-11	
	X, Y): [2:0-3-9,0-0-3],	[5:0-3-0,0-2-3], [6:0-4	-0,0-1-9], [9:0-3-9,0-0-	3]						
Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 20.0 10.0 0.0* 10.0	Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC BC WB Matrix-MSH	0.57 0.56	DEFL Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.06 14-15 -0.12 14-15 0.05 9	l/defl L/a >999 240 >999 180 n/a n/a	0 MT20 0 a	GRIP 244/190 6 lb FT = 20%
BOT CHORD 2x4 SP No.2 Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior WEBS 2x4 SP No.3 zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior SLIDER Left 2x4 SP No.3 1-6-0, Right 2x4 SP No.3 16-0 zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior BRACING (1) 17-8-2 to 21-9-8, Exterior(2E) 0-19-8 to 24-9-8 zone; TOP CHORD Structural wood sheathing directly applied or 4-1-6 oc purlins, except 2-0-0 oc purlins (5-9-6 max.): 5-6. (1) 17-8-2 to 21-9-8, Exterior(2E) 21-9-8 to 24-9-8 zone; BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. A-16 (C 13) REACTIONS (size) 2=0-5-8, 9=0-5-8 Max Horiz 2=176 (LC 13) Max Grav 2=1209 (LC 39), 9=1209 (LC 39) FORCES (b) - Maximum Compression/Maximum Tension (b) - Maximum Compression/Maximum Tension 5 TOP CHORD 1-2=0/29, 2-4=-1647/136, 4-5=-1287/169, 6										
BOT CHORD WEBS	5-6=-955/181, 6-7=- 7-9=-1646/137, 9-10 2-15=-171/1305, 14- 12-14=-10/954, 11-1 9-11=-76/1305 4-15=0/191, 4-14=-4 5-12=-148/153, 6-12	=0/29 15=-135/1305, 2=-16/1305, 52/158, 5-14=-47/363	chord live lo 8) * This truss on the botto 3-06-00 tall , chord and a	as been designed ad nonconcurrent has been designe m chord in all are by 2-00-00 wide v ny other members Simpson Strong-T	t with any o ed for a live as where a vill fit betwe s.	ther live loa load of 20.0 rectangle en the botte	Opsf	Ċ	UNITH ORTH	CAROUNIS
NOTES 1) Unbalance this desigr	7-12=-451/158, 7-11 ed roof live loads have	=0/190	recommend UPLIFT at ju and does no 10) This truss is Internationa R802.10.2 a 11) Graphical pu	ed to connect trus (s) 2 and 9. This (to consider lateral designed in accoo I Residential Code and referenced sta urlin representatio ation of the purlin d.	es to bearin connection forces. Indance with e sections F andard ANS In does not	g walls due is for uplift on the 2018 R502.11.1 a SI/TPI 1. depict the s	to only ind size	Contraction of the	S 03 CRIC A	EAL 6322 INEER GILBER May 1,2023
Design va a truss sy building d is always	IING - Verify design paramete alid for use only with MITek® vstem. Before use, the buildir lesign. Bracing indicated is t required for stability and to p	connectors. This design is b ng designer must verify the a to prevent buckling of individ	based only upon parameters applicability of design parameters ual truss web and/or chord n le personal injury and proper	shown, and is for an ir eters and properly inco nembers only. Addition ty damage. For gener	ndividual buildi rporate this de nal temporary al guidance re	ing component esign into the o and permanen garding the	t, not verall			NEERING BY FENCED A MITek Affiliate

De a t a duss system. Detailed use, the building designer must vering the application of design parameters and property incorporate inside use design into everal 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 Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Job	Truss	Truss Type	Qty	Ply	David Weekly-10 Serenity-Roof-B329 B	
23040097-01	B2	Roof Special	1	1	Job Reference (optional)	158053268

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 28 14:18:50 ID:TVbG3FBSnMPMdQCxlwaQalzMCPM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



NOTES

WEBS

Loading

TCLL (roof)

Snow (Pf)

LUMBER

TCDL

BCLL

BCDL

WEBS

SLIDER

BRACING

REACTIONS

FORCES

TOP CHORD

BOT CHORD

bracing.

Tension

(size)

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

8-12=-346/152

8-10=-1426/185, 10-11=0/29

2-15=-152/1087, 14-15=-111/1087,

12-14=0/949, 10-12=-111/1129

2=0-5-8, 10=0-5-8

Max Uplift 2=-88 (LC 14), 10=-120 (LC 15)

(lb) - Maximum Compression/Maximum

1-2=0/29, 2-4=-1370/146, 4-5=-1056/180,

5-6=-1117/218, 6-7=-932/182, 7-8=-1191/173,

4-15=0/198, 4-14=-403/149, 5-14=-155/1031,

6-14=-835/190, 6-12=-176/110, 7-12=0/354,

Max Grav 2=1031 (LC 21), 10=1093 (LC 41)

Max Horiz 2=170 (LC 13)

reactions shown; Lumber DOL=1.60 plate grip DOI = 1.60TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15

- Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10 4) Unbalanced snow loads have been considered for this
- desian.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding. 7)
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * 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.
- One H2.5A Simpson Strong-Tie connectors 9) recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 10. This connection is for uplift only and does not consider lateral forces.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Vananonan SEAL 036322 G mm May 1,2023

> 818 Soundside Road Edenton, NC 27932

 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

3)

Job	Truss	Truss Type	Qty	Ply	David Weekly-10 Serenity-Roof-B329 B	
23040097-01	B3	Roof Special	1	1	Job Reference (optional)	158053269

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 28 14:18:50 ID:TJBYmhpRm1q7EGckE7?N93zMCOZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

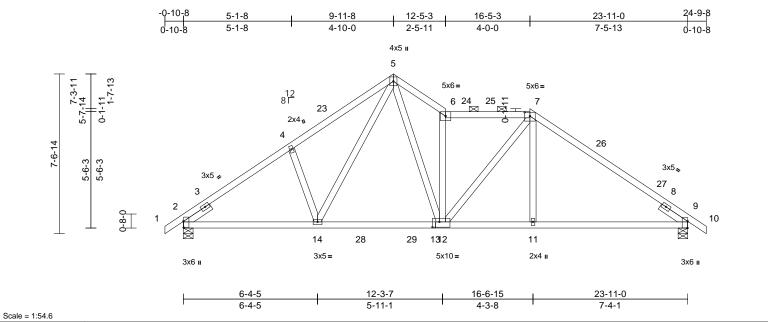


Plate Offsets (X, Y): [2:0-3-9,0-0-3], [7:0-3-0,0-2-3], [9:0-3-13,Edge], [13:0-4-0,0-3-0]

Loading	(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15		TC	0.88	Vert(LL)	-0.12	11-21	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15		BC	0.68	Vert(CT)	-0.20	11-21	>999	180		
TCDL	10.0	Rep Stress Incr	YES		WB	0.62	Horz(CT)	0.03	9	n/a	n/a		
BCLL	0.0*	Code	IRC201	8/TPI2014	Matrix-MSH								
BCDL	10.0											Weight: 137 lb	FT = 20%
LUMBER			2	Wind [.] ASCE	7-16; Vult=130mp	oh (3-se	cond gust)		LOAD	CASE(S) Sta	ndard	
TOP CHORD	2x4 SP No.2 *Excep	t* 7-10 [.] 2x4 SP No 1	_,		oh; TCDL=6.0psf;			:					
BOT CHORD					B; Enclosed; MWF								
WEBS	2x4 SP No.3			zone and C-	C Exterior(2E) -0-	10-8 [°] to 2	2-1-8, Interior	(1)					
SLIDER	Left 2x4 SP No.3 7	1-6-0, Right 2x4 SP	No.3		-8, Exterior(2R) 6-			ior					
	1-6-0	, 0			to 12-5-3, Interior (
BRACING					13-5-3 to 19-5-3,								
TOP CHORD	Structural wood she	athing directly applie	ed or		rior(2E) 21-9-8 to 2			er					
	2-2-0 oc purlins, exc				exposed ; end ve			_					
	2-0-0 oc purlins (4-1	0-4 max.): 6-7.			for members and			r					
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 or	С	reactions shown; Lumber DOL=1.60 plate grip DOL=1.60									
	bracing.		3		7-16; Pr=20.0 ps	f (roof L		1 15					
REACTIONS	(size) 2=0-5-8, 9	9=0-5-8	5		.15); Pf=20.0 psf								
	Max Horiz 2=170 (LC	C 13)											
	Max Uplift 2=-88 (LC	14), 9=-120 (LC 15	5)	DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10									
	Max Grav 2=1116 (L	_C 24), 9=1164 (LC	49) 4	,	snow loads have I	been co	nsidered for th	his					
FORCES	(lb) - Maximum Com	pression/Maximum		design.									
	Tension	•	5	This truss ha	as been designed f	for great	er of min roof	live					
TOP CHORD	1-2=0/29, 2-4=-1467	//151, 4-5=-1414/21	8,	load of 12.0	psf or 1.00 times f	lat roof I	oad of 20.0 p	sf on					
	5-6=-1539/249, 6-7=	-1253/184,		overhangs n	on-concurrent with	n other li	ve loads.						
	7-9=-1406/162, 9-10)=0/29	6)		quate drainage to			g.				minin	1111.
BOT CHORD	,	,	7)		as been designed f							IN'TH CA	Rall
	11-12=-9/1093, 9-11				ad nonconcurrent						1	2	111
WEBS	4-14=-334/189, 5-14		8)		has been designed			Opsf			S.	OR FESS	1 Annie
	5-12=-164/1098, 6-1				n chord in all area						25		A. Tim
	7-12=-57/307, 7-11=	=0/266			by 2-00-00 wide wi							:0	2.
NOTES			0	 chord and any other members, with BCDL = 10.0psf. 9) One H2.5A Simpson Strong-Tie connectors 								r 1 E	
1) Unbalanced roof live loads have been considered for											L <u>:</u> E		
this design.				UPLIFT at jt(s) 2 and 9. This connection is for uplift only							22 E		
				recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 9. This connection is for uplift only and does not consider lateral forces. 10) This truss is designed in accordance with the 2018							: :		
			1		designed in accor		ith the 2018				2	N	1 2
				,							-		0.00

- International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

G

818 Soundside Road Edenton, NC 27932

munnin

May 1,2023



Job	Truss	Truss Type	Qty	Ply	David Weekly-10 Serenity-Roof-B329 B	
23040097-01	B4	Roof Special	1	1	Job Reference (optional)	158053270

4x5= 5

13-11-3

3-11-11

9-11-8

4-10-0

Carter Components (Sanford), Sanford, NC - 27332,

-0-10-8 0-10-8

5-1-8

5-1-8

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 28 14:18:51 ID:MMyUAt3cpTU9GVinz1tlVUzMCOE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

17-11-3

4-0-0

Page: 1

24-9-8

0-10-8

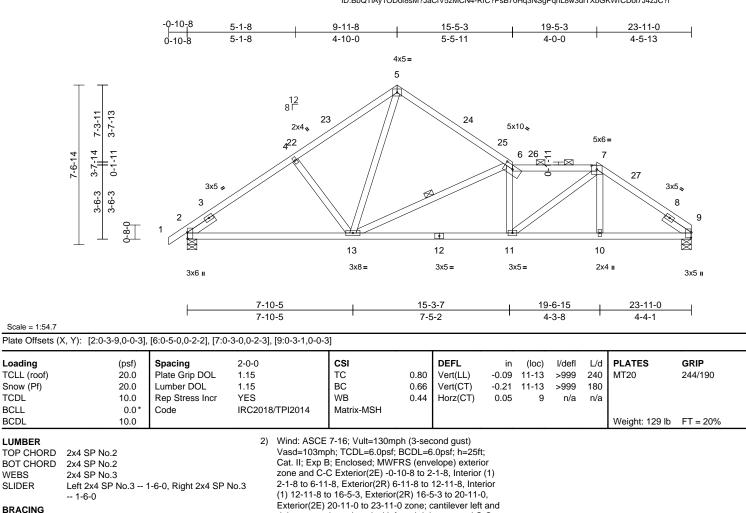
23-11-0

5-11-13

Scale = 1:54.7 Plate Offsets (7-6-14 7-6-3 4-6-3 4-7-14 7-14 7-14 7-14 7-14 7-14 7-14 7-	3x5 = 3 1 2 3x6 II		5 14 3x8= 13-9- 6-8- -31		12	627 E		5x6= 7 11 2x4 II		28 3 23-11-0 5-10-1	x5 € 8 9 2910 3x5 ⊪	
		1		1				(1-)	1/-1- 2			0.515	
Loading TCLL (roof)	(psf) 20.0	Spacing Plate Grip DOL	2-0-0 1.15	TC		DEFL /ert(LL)	in -0.07	(loc) 12-14	l/defl >999	L/d 240	PLATES MT20	GRIP 244/190	
Snow (Pf) TCDL	20.0 10.0	Lumber DOL Rep Stress Incr	1.15 YES			/ert(CT) Horz(CT)	-0.16 0.05	12-14 9	>999 n/a	180 n/a			
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH		1012(01)	0.00	Ū	n/a	n/a			
BCDL	10.0										Weight: 134	lb FT = 20%	
LUMBER Constraint Load CASE(s) Standard DTOP CHORD 2x4 SP No.3 2 Winci ASCE 7-16; Wull=130mph (3-second gust) Load CASE(s) Standard SLIDER Left 2x4 SP No.3 2 Winci ASCE 7-16; Wull=130mph (3-second gust) Load CASE(s) Standard SLIDER Left 2x4 SP No.3 -1-6-0 -1-16-0								A A A A A A A A A A A A A A A A A A A					
Design va a truss sy building d is always fabrication	alid for use only with MiTek@ rstem. Before use, the build lesign. Bracing indicated is required for stability and to n, storage, delivery, erection	Connectors. This design is ing designer must verify the to prevent buckling of indiv prevent collapse with poss n and bracing of trusses an	THIS AND INCLUDED MITEK R s based only upon parameters applicability of design parame idual truss web and/or chord m ible personal injury and propert d truss systems, see rrain Highway, Suite 203 Wald	shown, and is for an indivi ters and properly incorpor nembers only. Additional to ty damage. For general go ANSI/TPI1 Quality Criteri	dual buildin ate this des emporary a iidance reg	ng component, sign into the ov and permanent garding the	not rerall bracing	mponent			818 Soundsid Edenton, NC		

Job	Truss	Truss Type	Qty	Ply	David Weekly-10 Serenity-Roof-B329 B	
23040097-01	B5	Roof Special	1	1	Job Reference (optional)	158053271

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 28 14:18:51 ID:BbQTiAy1ODof8sM?JaCfV5zMCN4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



- TOP CHORD Structural wood sheathing directly applied or 3-2-2 oc purlins, except 2-0-0 oc purlins (3-10-15 max.): 6-7. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. WEBS 1 Row at midpt 6-13 **REACTIONS** (size) 2=0-5-8, 9=0-5-8 Max Horiz 2=165 (LC 11) Max Uplift 2=-88 (LC 14), 9=-103 (LC 15)
- Max Grav 2=1085 (LC 42), 9=1045 (LC 41) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/29, 2-4=-1450/168, 4-5=-1300/193 5-6=-960/162. 6-7=-1779/211. 7-9=-1408/161 BOT CHORD 2-13=-174/1156, 11-13=-116/1761, 10-11=-75/1121, 9-10=-100/1123 WEBS 4-13=-319/178, 5-13=-69/838, 6-13=-1175/198, 6-11=-388/114, 7-11=-59/836. 7-10=0/110
- NOTES

Loading

TCDL

BCLL

BCDL

WEBS

SLIDER

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

- Exterior(2E) 20-11-0 to 23-11-0 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
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this 4) desian.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding. 6)
- This truss has been designed for a 10.0 psf bottom 7) chord live load nonconcurrent with any other live loads.
- 8) * 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.
- One H2.5A Simpson Strong-Tie connectors 9) recommended to connect truss to bearing walls due to UPLIFT at jt(s) 9 and 2. This connection is for uplift only and does not consider lateral forces.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

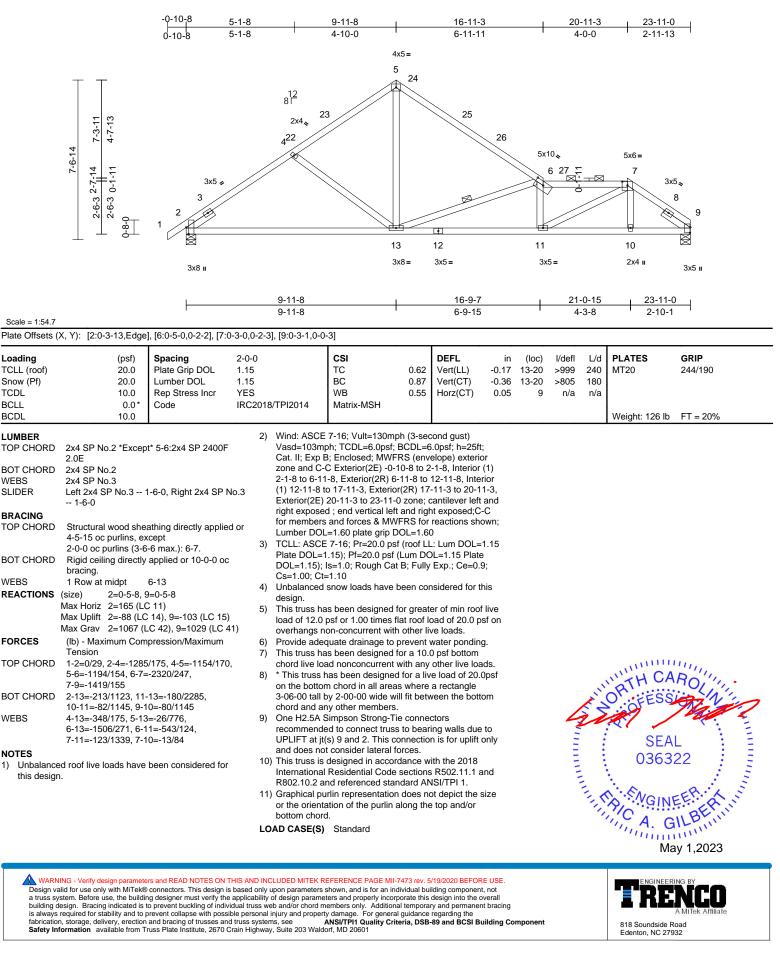
LOAD CASE(S) Standard



818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	David Weekly-10 Serenity-Roof-B329 B	
23040097-01	B6	Roof Special	1	1	Job Reference (optional)	158053272

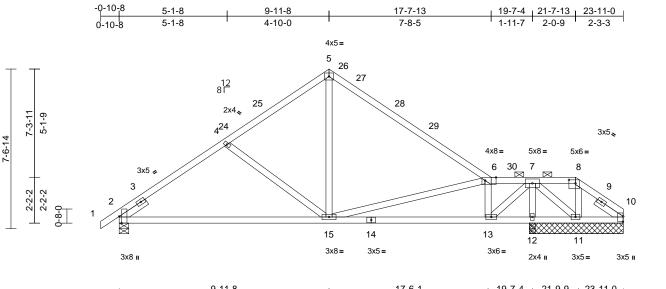
Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 28 14:18:52 ID:CsyuH_9hORxEgU9Gof?ehgzMCMp-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Job	Truss	Truss Type	Qty	Ply	David Weekly-10 Serenity-Roof-B329 B	
23040097-01	B7	Roof Special	1	1	Job Reference (optional)	158053273

Scale = 1:54.7

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 28 14:18:52 ID:zgyLWXTNV65hAJa3mPyVCyzMCMQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



9-11-8 7-6-9 2-1-3 2-2-5 2-1-7	9-11-8	17-6-1	19-7-4	21-9-9	23-11-0	
	9-11-8	7-6-9		2-2-3	2-1-7	

Plate Offsets (X, Y):	: [2:0-3-13,Edge], [6:0-6-4,0-1-12], [8:0-3-12,0-2-0], [10:0-3-1,0-0-3]
-----------------------	---

		1					I						
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15		тс	0.68	Vert(LL)	-0.16	15-22	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15		BC	0.73	Vert(CT)	-0.33	15-22	>721	180		
TCDL	10.0	Rep Stress Incr	YES		WB	0.60	Horz(CT)	0.02	2	n/a	n/a		
BCLL	0.0*	Code	IRC201	8/TPI2014	Matrix-MSH		- (-)						
BCDL	10.0											Weight: 128 lb	FT = 20%
-												- 5	
LUMBER			2)		7-16; Vult=130mpl								
TOP CHORD	2x4 SP No.2 *Excep	ot* 5-6:2x4 SP 2400F			oh; TCDL=6.0psf; E								
	2.0E				3; Enclosed; MWFF								
BOT CHORD					C Exterior(2E) -0-1								
WEBS	2x4 SP No.3				-8, Exterior(2R) 6-								
SLIDER		1-6-0, Right 2x4 SP N	0.3	. ,	o 18-7-13, Exterior	. ,							
	1-6-0				21-7-13 to 23-11-0								
BRACING					d; end vertical left; and forces & MWF								
TOP CHORD		athing directly applied	lor		=1.60 plate grip D0			wii,					
	5-7-7 oc purlins, exc		2)		7-16; Pr=20.0 psf			1 15					
	2-0-0 oc purlins (6-0		3)		.15); Pf=20.0 psf (l								
BOT CHORD	Rigid ceiling directly	applied or 6-0-0 oc			ls=1.0; Rough Cat								
	bracing.			Cs=1.00; Ct=		D, I uliy	LAP., 00-0.0	<i>'</i> ,					
REACTIONS	(size) 2=0-5-8, 2	10=4-5-8, 11=4-5-8,	4)		snow loads have b	een co	nsidered for th	nis					
		, 16=4-5-8	.,	design.									
	Max Horiz 2=165 (LC	,	5)		s been designed fo	or areat	er of min roof	live					
	Max Uplift 2=-81 (LC), ''		osf or 1.00 times fla								
	12=-137 ((LC 15), 16=-161 (LC	43)		on-concurrent with								
	Max Grav 2=851 (LC		6)	Provide adeo	quate drainage to p	revent	water ponding	1.					
		LC 40), 12=1190 (LC 1	22), ₇)		s been designed fo			•					
	16=20 (L0	,		chord live loa	ad nonconcurrent w	vith any	other live loa	ds.				minin	11111
FORCES	(lb) - Maximum Com	pression/Maximum	8)	* This truss h	has been designed	for a liv	e load of 20.0)psf				WHY CA	Pall
	Tension			on the bottor	n chord in all areas	where	a rectangle				1	alli	no lu
TOP CHORD	,				y 2-00-00 wide will	I fit bety	veen the botto	om			A	O' . EFSS	in Alle
	5-6=-830/111, 6-7=-	576/66, 7-8=0/223,			y other members.						11	1P	No. Sta
	8-10=-22/338		9)		ical connector						-		
BOT CHORD					d to connect truss					-	5 8		
	12-13=-504/106, 11-	-12=-504/106,			s) 10, 2, and 12. Tl			uplift			:	SEA	L : =
	10-11=-245/42				s not consider late					=		0363	22 : =
WEBS		5=0/436, 6-15=-32/21	J, 10		designed in accord Residential Code s			ام مر		-		0505	
	6-13=-887/178, 8-11				nd referenced stan			nu				1	1 - E - E
	7-12=-1143/136, 7-1 7-11=-92/405	13=-133/1431,	11		rlin representation			izo		S	1 .	·	Airs
NOTEO	1 11-32/400		11					12C			25	S GIN	EFICAS
NOTES	al an af Ban In a da l	have enabled to		only and does not consider lateral forces. 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. OAD CASE(S) Standard						BEN			
,	ed roof live loads have	been considered for										11, A. G	ILLUN
this desigr	1.		LC	DAD CASE(S)	Siandard							111111	mm.
												M	av 1 2023

May 1,2023

Page: 1



Job	Truss	Truss Type	Qty	Ply	David Weekly-10 Serenity-Roof-B329 B	
23040097-01	BSE	Common Structural Gable	1	1	Job Reference (optional)	158053274

Scale = 1:60.9

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 28 14:18:53 ID:PsmVvbhMaAB85kbfL?kTkHzMCsP-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

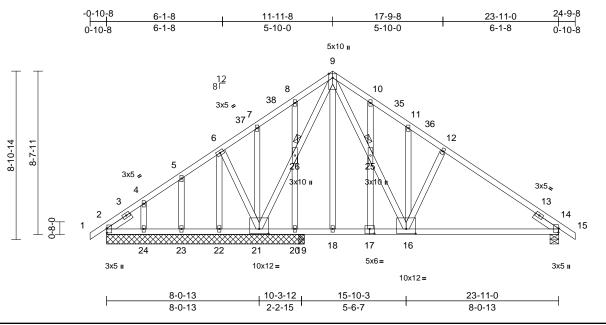


Plate Offsets (X, Y): [2:0-2-13,0-0-3], [14:0-2-9,0-0-3], [16:0-6-0,0-3-0], [17:0-3-0,0-3-0], [21:0-6-0,0-3-0]

2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC 0.34 BC 0.47 WB 0.38 Matrix-MSH	Vert(LL) -0.07	16-33 >999 240 16-33 >999 180	MT20 244/190
No.3 WEBS ed or c NOTES 1) Unbalance this design 1-5-8, 2) Wind: ASC Vasd=103 Cat. II; Ext Zone and (4), 1-11-8 to 9 Cat. II; Ext Zone and (4), 1-11-12 to 9 Cat. II; Ext Zone and (4), 1-11-12 to 9 Cat. I	22-23=-32/106, 21-22=-31/ 20-21=-34/272, 19-20=-34/ 18-19=-34/272, 16-18=-34/ 14-16=-224/633 21-26=-543/31, 9-26=-536/ 9-25=-188/700, 16-25=-163 12-16=-300/175, 9-18=-12/ 10-25=-175/69, 17-25=-86/ 11-16=-120/44, 8-26=-236/ 20-26=-229/69, 7-21=-163/ 5-23=-132/81, 4-24=-125/9 ed roof live loads have been c b E 7-16; Vult=130mph (3-sec mph; TCDL=6.0psf; BCDL=6 b B; Enclosed; MWFRS (enve C-C Exterior(2E) -0-10-8 to 1- 9-1-4, Exterior(2E) 9-1-4 to 15 21-9-8, Exterior(2E) 9-1-4 to 15 21-9-8, Exterior(2E) 9-1-4 to 15 21-9-8, Exterior(2E) 1-9-18 to left and right exposed ; end v sed;C-C for members and for ns shown; Lumber DOL=1.60 igned for wind loads in the pl studs exposed to wind (norma ard Industry Gable End Detai qualified building designer as CE 7-16; Pr=20.0 psf (roof LL =1.15); Pf=20.0 psf (Lum DO ; Is=1.0; Rough Cat B; Fully Ct=1.10	106, 272, 272, 30, 6-21=-67/84, 3/620, 60, 42, 68, 778, 6-22=-82/11, 2 considered for ond gust) .0psf; h=25ft; elope) exterior .11-8, Interior (1) 24-9-8 zone; ertical left and ces & MWFRS plate grip ane of the truss al to the face), Is as applicable, per ANSI/TPI 1. : Lum DOL=1.15 L=1.15 Plate Exp.; Ce=0.9;	 load of 12.0 psf overhangs non-c All plates are 2x- Bable studs spaa This truss has be chord live load n * This truss has load the chord live load n * This truss has load the chord live load n * This truss has load the chord and any of One mechanical recommended to UPLIFT at jt(s) 2 for uplift only and This truss is designed the chord and any of This truss is designed the chord and any chord and any of This truss is designed to the chord and any of This truss is designed to the chord and any chord and any of This truss is designed to the chord and any chord and any of This truss is designed to the chord and any chord and any of This truss is designed to the chord and any chord and any chord and any of This truss is designed to the chord and any chord and any chord and any chord and any of This truss is designed to the chord and any chord any chord and any chord and any chord and any cho	een designed for a 10.0 psf bottom onconcurrent with any other live loads. been designed for a live load of 20.0psf ord in all areas where a rectangle 00-00 wide will fit between the bottom her members. connector o connect truss to bearing walls due to 1, 20, 23, 24, and 14. This connection is d does not consider lateral forces. gned in accordance with the 2018 sidential Code sections R502.11.1 and eferenced standard ANSI/TPI 1.
	1.15 1.15 YES IRC2018/TPI2014 BOT CHORD P No.3 WEBS ied or NOTES 1) Unbalance this design 0-5-8, 2) Wind: ASC Vasd=103 Cat. II; Exp 14), 1-11-8 to S 14), 1-11-8 to S 14), 1-11-8 to S 14), 1-11-8 to S 15-1-4 to 2 Cat. II; Exp See Stand or consult 4) TCLL: ASC Plate DOL DOL=1.15 5 Substance 10, 10, 10, 10, 10, 10, 10, 10, 10, 10,	1.15 TC 0.34 1.15 BC 0.47 YES Matrix-MSH BOT CHORD $2-24=-32/106, 23-24=-32/1$ $22-23=-32/106, 21-22=-31/$ $22-23=-32/106, 21-22=-31/$ $22-23=-32/106, 21-22=-31/$ $22-23=-32/106, 21-22=-31/$ $22-23=-32/106, 21-22=-31/$ $22-23=-32/106, 21-22=-31/$ $22-23=-32/106, 21-22=-31/$ $22-23=-32/106, 21-22=-31/$ $22-23=-32/106, 21-22=-31/$ $22-3=-32/106, 21-22=-31/$ $22-3=-32/106, 21-22=-31/$ $12-16=-30/175, 9-18=-34/$ $14+16=-224/633$ $9-25=-188/700, 16-25=-163/$ $9-25=-188/700, 16-25=-163/$ $9-25=-175/69, 17-25=-86/$ $10-25=-175/69, 17-25=-86/$ $10-25=-175/69, 17-25=-86/$ $21-6=-300/175, 9-18=-12/$ $20-26=-229/69, 7-21=-163/$ $20-26=-229/69, 7-21=-163/$ $20-26=-229/69, 7-21=-163/$ $20-26=-229/69, 7-21=-163/$ $20-26=-229/69, 7-21=-163/$ $20-26=-229/69, 7-21=-163/$ $21-11<$ $21-11<$ $21-11<$ $21-11 $	1.15TC0.34Vert(LL)-0.071.15BC0.47Vert(CT)-0.16YESWB0.38Matrix-MSHHorz(CT)-0.01BOT CHORD2-24=-32/106, 23-24=-32/106, 22-23=-31/106, 20-21=-34/272, 19-20=-34/272, 18-19=-34/272, 18-19=-34/272, 18-19=-34/272, 18-19=-34/272, 18-19=-34/272, 18-19=-34/272, 18-19=-34/272, 16-18=-30/175, 9-18=-30/0175, 9-18=-12/60, 10-25=-175/69, 17-25=-86/42, 11-16=-120/44, 8-26=-236/68, 20-26=-229/69, 7-21=-163/78, 6-22=-82/11, 5-23=-132/81, 4-24=-125/92NOTES1)Unbalanced roof live loads have been considered for this design.2)2)Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-10-8 to 1-11-8, Interior (1)14),1-11-8 to 9-1-4, Exterior(2E) 91-9-8 to 24-9-8 zone; cantilever left and right exposed; end vertical left and right exposed; c-G for members and forces & MWFRS2),right exposed; C-G for members and forces & MWFRS2),ror 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)TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.16)5)Unbalanced snow loads have been considered for this field DL=1.10, Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.105)Unbalanced snow loads have been considered for this	1.15 1.15 YES IRC2018/TPI2014TC BC BC0.34 BCVert(LL) Vert(CT)-0.07 -0.1616-33 -33 > >999 240 Vert(CT)BOT CHORD 2-24=-32/106, 22-23=-32/106, 20-21=-34/272, 16-18=-34/272, 18-19=-34/272, 16-18=-34/272, 18-19=-34/272, 16-18=-34/272, 18-19=-34/272, 16-18=-34/272, 18-19=-34/272, 16-18=-34/272, 16-12=-536/30, 6-21=-67/84, 9-25=-188/700, 16-25=-163/620, 9-25=-188/700, 16-25=-163/620, 9-25=-188/700, 16-25=-163/620, 9-25=-188/700, 16-25=-163/620, 9-25=-188/700, 16-25=-163/620, 9-25=-188/700, 16-25=-163/620, 9-25=-188/700, 16-25=-163/620, 9-25=-236/68, 20-26=-229/69, 7-21=-163/78, 6-22=-82/11, 5-23=-132/81, 4-24=-125/926)This truss has be load of 12.0 psf overhangs non-co overhangs non-co 9NOTES 1)Unbalanced roof live loads have been considered for this design.1)Unbalanced roof live loads have been considered for this design.1)1)Unbalanced roof live loads have been considered for this design.1)Unbalanced roof live loads have been considered for this design.1)1)Unbalanced roof live loads have been considered for this design.1)1)0 mechanical recommended to UPLIFT at jt(s) 2 for uplift only and tratice the theorem of the bot of the second gust) Vasd=103mph; TCDL=6.0ps; BCDL=6.0ps; h=25ft; cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 2-0-10-8 to 15-1-4, Interior (1) 15-1-4 to 21-9-8, Exterior(2E) 2-1-9-8 to 24-9-8 zone; cantilever left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60LOAD CASE(S)St

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



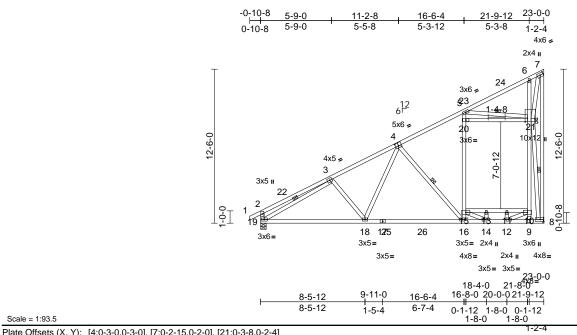
May 1,2023

Job	Truss	Truss Type	Qty	Ply	David Weekly-10 Serenity-Roof-B329 B	
23040097-01	С	Roof Special	1	1	Job Reference (optional)	158053275

Scale = 1:93.5

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 28 14:18:54 ID:QiA5I?BkfVvdmlaFyE6?IXzMBIM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	-0.40	16-18	>676	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.73	16-18	>376	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.04	8	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH		Attic	-0.15	10-15	>424	360		
BCDL	10.0										Weight: 206 lb	FT = 20%

BCDL	10.0					Weight: 206 lb FT = 20%
LUMBER TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.1 *Except* 15-10:2x4 SP No.3, 17-8:2x4 SP No.2	Vasd= Cat. II	ASCE 7-16; Vult=130mph (3-se 103mph; TCDL=6.0psf; BCDL=6 ; Exp B; Enclosed; MWFRS (env ind C-C Exterior(2E) -0-10-8 to 2	6.0psf; h=25ft; elope) exterior	International Resi	ned in accordance with the 2018 dential Code sections R502.11.1 and ferenced standard ANSI/TPI 1. d for L/360 deflection.
WEBS	2x4 SP No.3 *Except* 7-8,20-21:2x4 SP No.2, 5-16,6-9,21-8:2x4 SP 2400F 2.0E	cantile	o 19-10-4, Exterior(2E) 19-10-4 ver left and right exposed ; end	vertical left	LOAD CASE(S) Sta	ndard
BRACING			ed;C-C for members and forces			
TOP CHORD	Structural wood sheathing directly applied or	DOL=	ons shown; Lumber DOL=1.60 pl	ate grip		
	4-5-8 oc purlins, except end verticals.		ASCE 7-16; Pr=20.0 psf (roof L			
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc		OOL=1.15); Pf=20.0 psf (Lum DC			
	bracing, Except:		1.15); Is=1.0; Rough Cat B; Fully			
	6-0-0 oc bracing: 9-12.		00; Ct=1.10	,,		
WEBS JOINTS	1 Row at midpt 4-16, 3-19, 5-21, 8-21	3) Unbal	anced snow loads have been co	nsidered for this		
	1 Brace at Jt(s): 21	desigr				
REACTIONS	(uss has been designed for great			
	Max Horiz 19=423 (LC 14) Max Uplift 8=-30 (LC 14), 19=-2 (LC 14)		f 12.0 psf or 1.00 times flat roof I			
	Max Grav $8=1736$ (LC 5), $19=1172$ (LC 5)		angs non-concurrent with other li			
FORCES	(lb) - Maximum Compression/Maximum		uss has been designed for a 10.			
FURGES	Tension		live load nonconcurrent with any truss has been designed for a liv			
TOP CHORD	1-2=0/27, 2-3=-403/97, 3-5=-1552/0,		bottom chord in all areas where			AND DOM: NOT
	5-6=-155/882, 6-7=-43/564, 7-8=-254/2359,		0 tall by 2-00-00 wide will fit bety			IN CAD
	2-19=-364/143		and any other members, with BC			TH UARO
BOT CHORD	18-19=-327/1395, 16-18=-188/1150,	7) Ceiling	dead load (5.0 psf) on member	(s). 20-21; Wall	A CONTRACTOR	ON FRS OF ALL
	14-16=-111/1337, 12-14=0/862, 9-12=-90/12,	dead	oad (5.0psf) on member(s).15-20), 10-21		AST Things
	8-9=-34/475, 13-15=-339/0, 11-13=-339/0,		n chord live load (40.0 psf) and a			No Mall
	10-11=-339/0		dead load (5.0 psf) applied only	to room. 13-15,	Ξ.	
WEBS	3-18=-168/191, 4-18=-47/481,		10-11			SEAL =
	4-16=-620/203, 15-16=-66/703, 15-20=0/718, 5-20=0/728, 9-10=-19/551, 10-21=0/1092,		to girder(s) for truss to truss con e mechanical connection (by oth		E E	036322
	6-21=-669/179, 20-21=-76/809,	,	g plate capable of withstanding (,	=	
	3-19=-1304/0, 14-15=-630/166,	8.	g plate capable of withstanding a	o io upint at joint		N 2 2
	13-14=-72/175, 10-12=0/1054, 11-12=-444/6,		2.5A Simpson Strong-Tie conne	ctors	Contraction of the	N. FNOWSER. X S
	5-21=-2116/178, 8-21=-4437/320,		mended to connect truss to bear			A GINER A
	7-21=-2518/236		T at jt(s) 19. This connection is f		1	CACIBRIN
NOTES		does i	not consider lateral forces.			A. GILD
						STATILITY .

May 1,2023



Job	Truss	Truss Type	Qty	Ply	David Weekly-10 Serenity-Roof-B329 B	
23040097-01	C1	Attic	1	1	Job Reference (optional)	158053276

NOTES

Run: 8,53 S Mar 9 2023 Print: 8,530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 28 14:18:54 ID:dn7xJiax1KrXXAjJYqfRnIzMBFG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

23-0-0 21-9-12 22-5-11 -0-10-8 5-9-0 11-2-8 16-6-4 0-10-8 5-9-0 5-5-8 5-3-12 5-3-8 0-7-15 9-6-5 2x4 II 7 6 23 3x6 -5 6¹² 1 -4-8 5x6 🦼 12-2-13 12-2-13 4 346-12 4x5 🞜 è-3 3x5 II 2 18 25 16 14 2417 12 9 3x6= 3x5 =3x5= $3x5 = 3x5 = 2x4 \parallel$ 5x10= 4x8= 3x5= 2x4 II 4x8 =23-0-0 21-8-0⁶ 18-4-0

				8-5-		-			021-9-1				
Scale = 1:94.5				8-5-	12 2-7-4	4) 0-1-12 1-8-0	2			
Plate Offsets (X, Y): [4:0-3-0,0-3-0], [7:0-4-13,Edge], [21:0-3-8,0-2-0]													
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15		тс	0.83	Vert(LL)	-0.41	16-18	>664	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15		BC	0.84	Vert(CT)	-0.73	16-18	>370	180		
TCDL	10.0	Rep Stress Incr	YES		WB	0.87	Horz(CT)	0.04	8	n/a	n/a		
BCLL	0.0*	Code	IRC2018	/TPI2014	Matrix-MSH		Attic	-0.15	10-15	>419	360		
BCDL	10.0											Weight: 215 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS	2x4 SP No.2 2x4 SP No.1 *Excep 17-8:2x4 SP No.2 2x4 SP No.3 *Excep 2400F 2.0E, 20-21:2	ot* 5-16,6-9,21-8:2x4	Vasd=103m Cat. II; Exp E zone and C- 2-1-8 to 19-9 cantilever left	7-16; Vult=130mp oh; TCDL=6.0psf; 3; Enclosed; MWF C Exterior(2E) -0-1 0-4, Exterior(2E) 15 t and right expose	BCDL=6 RS (env 10-8 to 2 9-9-4 to d; end v	6.0psf; h=25ft relope) exterio 2-1-8, Interior 22-9-4 zone; vertical left	or (1)	Inte R80 13) Atti	ernationa 02.10.2 a	al Resid and ref checke	ferenced standard d for L/360 defled	ions R502.11.1 and d ANSI/TPI 1.	

	No.2	
BRACING	110.2	
TOP CHORD	Structural wood sheathing directly applied or 4-5-10 oc purlins, except end verticals.	2)
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except:	
	6-0-0 oc bracing: 9-12.	3)
WEBS	1 Row at midpt 4-16, 3-19, 5-21, 8-21	-,
JOINTS	1 Brace at Jt(s): 21	4)
REACTIONS	(size) 8= Mechanical, 19=0-5-8	.,
	Max Horiz 19=421 (LC 14)	
	Max Uplift 8=-28 (LC 14), 19=-2 (LC 14)	5)
	Max Grav 8=1740 (LC 5), 19=1168 (LC 5)	-,
FORCES	(lb) - Maximum Compression/Maximum Tension	6)
TOP CHORD	1-2=0/27, 2-3=-403/97, 3-5=-1545/0,	
	5-6=-154/905, 6-7=-42/598, 2-19=-364/143,	
	7-8=-285/2640	7)
BOT CHORD	18-19=-326/1389, 16-18=-188/1143,	
	14-16=-110/1336, 12-14=0/867,	8)
	9-12=-103/11, 8-9=-34/465, 13-15=-350/0,	
	11-13=-350/0, 10-11=-350/0	
WEBS	3-18=-169/191, 4-18=-47/482,	9)
	4-16=-621/203, 15-16=-66/702, 15-20=0/720,	10
	5-20=0/730, 9-10=-20/521, 10-21=0/1074,	
	6-21=-640/181, 20-21=-75/817,	
	3-19=-1297/0, 14-15=-628/164,	11
	13-14=-71/174, 10-12=0/1077, 11-12=-441/5,	
	5-21=-2136/178, 8-21=-4704/349,	
	7-21=-2845/262	

cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10 Unbalanced snow loads have been considered for this ;) design. This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads. This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf. Ceiling dead load (5.0 psf) on member(s). 20-21; Wall ') dead load (5.0psf) on member(s).15-20, 10-21

- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 13-15, 11-13, 10-11
- Refer to girder(s) for truss to truss connections. 0) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 8.
- 1) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at it(s) 19. This connection is for uplift only and does not consider lateral forces.

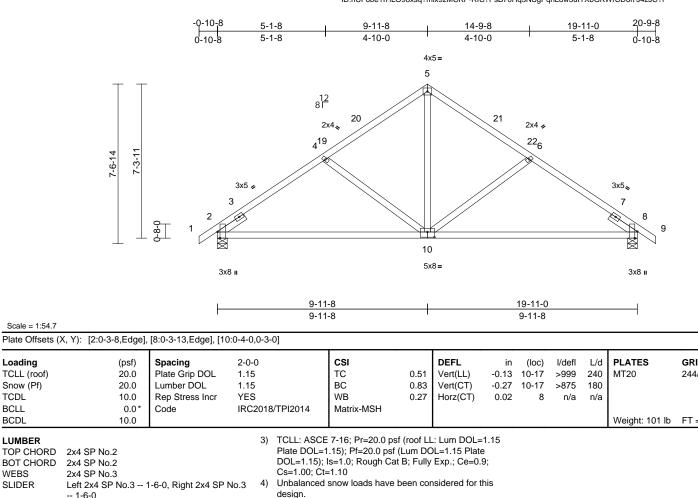
Page: 1



818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	David Weekly-10 Serenity-Roof-B329 B		
23040097-01	D	Common	9	1	Job Reference (optional)	158053277	

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 28 14:18:55 ID:hUF6be117ILO98xsq?mlx9zMCKP-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:54.7

				-									
Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018	3/TPI2014	CSI TC BC WB Matrix-MSH	0.51 0.83 0.27	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.13 -0.27 0.02	(loc) 10-17 10-17 8	l/defl >999 >875 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 101 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD BOT CHORD REACTIONS	1-6-0 Structural wood she 5-4-1 oc purlins. Rigid ceiling directly bracing. (size) 2=0-5-8, 8 Max Horiz 2=170 (LC Max Uplift 2=-85 (LC Max Grav 2=897 (LC (Ib) - Maximum Corr Tension 1-2=0/29, 2-4=-1006 5-6==868/137, 6-8=- 2-8=-193/897	C 13) C 14), 8=-85 (LC 15) C 21), 8=897 (LC 22) apression/Maximum 6/147, 4-5=-868/137,	5) or 6) 7) 8) 9)	Plate DOL=1 DOL=1.15); Cs=1.00; Ct Unbalanced design. This truss ha load of 12.0 overhangs n This truss ha chord live loa * This truss ha chord live loa * This truss ha chord live loa * This truss ha chord of live loa * This truss ha chord and ar One H2.5A S recommende UPLIFT at jt(and does no This truss is International	7-16; Pr=20.0 psl .15); Pf=20.0 psl .15); Pf=20.0 psl ss=1.0; Rough Cat =1.10 snow loads have l s been designed f psf or 1.00 times f fon-concurrent with s been designed fad nonconcurrent with s been designed an chord in all area by 2-00-00 wide with y other members. Simpson Strong-Ti ed to connect truss s) 2 and 8. This co t consider lateral for designed in accord Residential Code nd referenced star	(Lum DC B; Fully been cor or great at roof k o other liv or a 10.0 with any I for a liv s where Il fit betw e connectio porces. dance w sections	DL=1.15 Plate Exp.; Ce=0.5 asidered for the er of min roof pad of 20.0 ps ve loads. 0 psf bottom other live loa e load of 20.0 a rectangle veen the botto ctors ing walls due n is for uplift of ith the 2018 : R502.11.1 a); live sf on ds. 0psf om to only					
NOTES	d roof live loads have	,		DAD CASE(S)	Standard							ORTH CA	ROJA
Vasd=103r	E 7-16; Vult=130mph mph; TCDL=6.0psf; B B; Enclosed; MWFR							2	a		Mall		

zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 6-11-8, Exterior(2R) 6-11-8 to 12-11-8, Interior (1) 12-11-8 to 17-9-8, Exterior(2E) 17-9-8 to 20-9-8 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

- E The man we want SEAL 036322 G minim May 1,2023



Job	Truss	Truss Type	Qty	Ply David Weekly-10 Serenity-Roof-B329 B		
23040097-01	D1	Common	2	1	Job Reference (optional)	158053278

Scale = 1:54.7

Loading

TCLL (roof)

Snow (Pf)

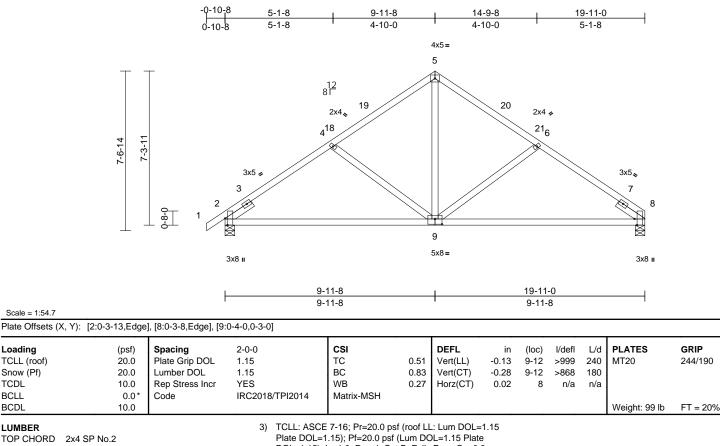
LUMBER

TCDL

BCLL

BCDL

Run: 8,53 S Mar 9 2023 Print: 8,530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 28 14:18:55 ID:Z_zCtCt8BmiE58RMZm1ivPzMCKc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
SLIDER	Left 2x4 SP No.3 1-6-0, Right 2x4 SP No.3
	1-6-0
BRACING	
TOP CHORD	Structural wood sheathing directly applied or
	5-4-1 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc
	bracing.
REACTIONS	(size) 2=0-5-8, 8=0-5-8
	Max Horiz 2=165 (LC 13)
	Max Uplift 2=-85 (LC 14), 8=-67 (LC 15)
	Max Grav 2=897 (LC 21), 8=843 (LC 22)
FORCES	(lb) - Maximum Compression/Maximum
	Tension
TOP CHORD	1-2=0/29, 2-4=-1007/148, 4-5=-869/139,
	5-6=-870/139, 6-8=-1010/149
BOT CHORD	2-8=-200/903
WEBS	5-9=-31/563, 6-9=-370/184, 4-9=-366/183
NOTES	

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

Wind: ASCE 7-16; Vult=130mph (3-second gust) 2) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 6-11-8, Exterior(2R) 6-11-8 to 12-11-8, Interior (1) 12-11-8 to 16-11-0, Exterior(2E) 16-11-0 to 19-11-0 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

DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10 4) Unbalanced snow loads have been considered for this

desian. 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.

- 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.
- 8) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at it(s) 8 and 2. This connection is for uplift only and does not consider lateral forces.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

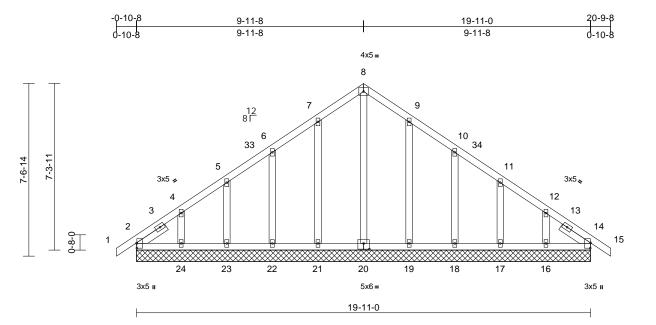
LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	David Weekly-10 Serenity-Roof-B329 B	
23040097-01	DSE	Common Supported Gable	1	1	Job Reference (optional)	158053279

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 28 14:18:55 ID:scQGvP9BX7kqzqHzzoTKtTzMCKE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:50.5 Plate Offsets (X, Y): [2:0-2-8,0-0-3], [14:0-2-13,0-0-3], [20:0-3-0,0-3-0]

	())	· · · · 1)	[1.1.0 = 1.0,0 0 0], [2		1												
Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL LUMBER TOP CHORD	2x4 SP No.2	(psf) 20.0 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code		118/TPI2014 TOP CHORD	CSI TC BC WB Matrix-MSH 1-2=0/29, 2-4=-14! 5-6=-105/90, 6-7=-	92/125,	7-8=-106/184		loa	d of 12.0) psf or	1.00 times flat ro	reater of min roof live of load of 20.0 psf on			
BOT CHORD OTHERS SLIDER BRACING	2x4 SP No.3		-6-0, Right 2x4 SP	No.3 I	8-9=-106/184, 9-10=-77/125, 10-11=-61/61, 11-12=-73/40, 12-14=-103/66, 14-15=0/29 BOT CHORD 2-24=-55/128, 23-24=-55/128, 22-23=-55/128, 21-22=-55/128, 19-21=-55/128, 18-19=-55/128,					 overhangs non-concurrent with other live loads. All plates are 2x4 MT20 unless otherwise indicated. Gable requires continuous bottom chord bearing. Gable studs spaced at 2-0-0 oc. This truss has been designed for a 10.0 psf bottom 							
TOP CHORD BOT CHORD	6-0-0 oc purl	ins.	athing directly applie applied or 10-0-0 oc	,	WEBS	17-18=-55/128, 16-17=-55/128, chord ii 14-16=-55/128 11) * This tr 8-20=-141/28, 7-21=-219/84, 6-22=-182/91, on the b							ord live load nonconcurrent with any other live loads. his truss has been designed for a live load of 20.0psf the bottom chord in all areas where a rectangle 06-00 tall by 2-00-00 wide will fit between the bottom				
				3) 5), 5), 4), 4),	 12-16=-129/103 NOTES 1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 1-11-8, Exterior (2N) 12-11-8 to 6-11-8, Corner(3E) -0-10-8 to 12-11-8, Exterior (2N) 12-11-8 to 17-9-8, Corner(3E) 17-9-8 to 20-9-8 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) 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10 5) Unbalanced snow loads have been considered for this design. 					surface with truss chord at joint(s) 14, 29.							
				2), 25), 22), 22), 21), 24), 25),													

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/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



May 1,2023

Job	Truss	Truss Type	Qty	Ply	David Weekly-10 Serenity-Roof-B329 B	
23040097-01	DSE	Common Supported Gable	1	1	Job Reference (optional)	158053279
Carter Components (Sanford), Sa	anford, NC - 27332,	Run: 8.53 S Mar 9 2	023 Print: 8.5	530 S Mar 9	2023 MiTek Industries, Inc. Fri Apr 28 14:18:55	Page: 2

ID:scQGvP9BX7kqzqHzzoTKtTzMCKE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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

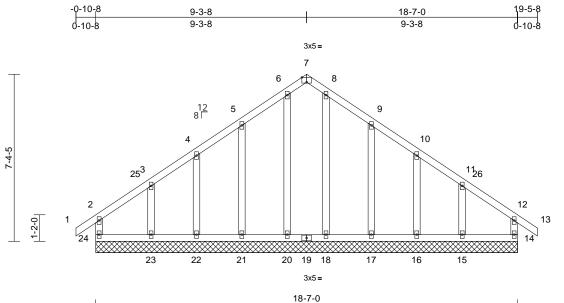
LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	David Weekly-10 Serenity-Roof-B329 B	
23040097-01	EGE	Common Supported Gable	1	1	Job Reference (optional)	158053280

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 28 14:18:56 ID:_esNCUIUPIWo4zacA9qaZdzMD57-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:50.8 Plate Offsets (X, Y): [7:0-2-8,Edge]

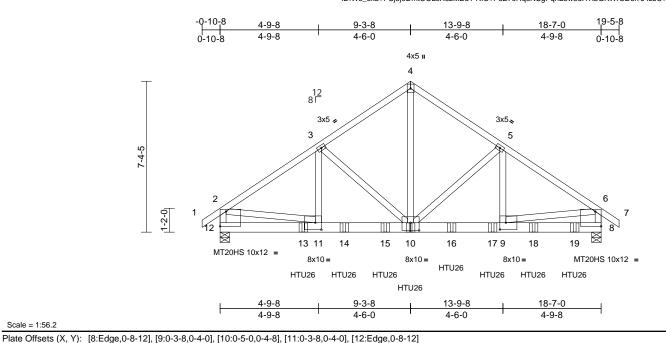
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,															
Loading	(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP			
TCLL (roof)	20.0	Plate Grip DOL	1.15		тс	0 16	Vert(LL)	n/a	-	n/a	999	MT20	244/190			
Snow (Pf)	20.0	Lumber DOL	1.15		BC	0.08	Vert(CT)	n/a	-	n/a	999					
TCDL	10.0	Rep Stress Incr	YES		WB	0.14	Horz(CT)	0.00	14	n/a	n/a					
BCLL	0.0*	Code		18/TPI2014	Matrix-MR	0.14	11012(01)	0.00	14	Π/a	n/a					
BCDL	10.0	Coue	11/020	10/11/12014	IVIAULX-IVIT							Weight: 117 lb	FT - 20%			
BODL	10.0											, , , , , , , , , , , , , , , , , , ,				
LUMBER			V		6-20=-168/8, 8-18			30,					a live load of 20.0psf			
TOP CHORD	2x4 SP No.2				4-22=-159/77, 3-2							rd in all areas wh				
BOT CHORD	2x4 SP No.2				9-17=-214/130, 10)-16=-15	9/77,						between the bottom			
WEBS	2x4 SP No.3			11-15=-159/124 chord and any other members.												
OTHERS	2x4 SP No.3		N	NOTES 13) Provide mechanical connection (by others) of t												
BRACING			1) Unbalanced	roof live loads have	ve been	considered fo	or					ng 58 lb uplift at joint			
TOP CHORD	Structural wood she	athing directly applied	d or	this design.									ft at joint 21, 36 lb			
	6-0-0 oc purlins, ex	cept end verticals.	2		7-16; Vult=130m								t 23, 86 lb uplift at			
BOT CHORD	Rigid ceiling directly	applied or 6-0-0 oc			oh; TCDL=6.0psf;					t 17, 37	inqu ai	it at joint 16 and 1	115 lb uplift at joint			
	bracing.				3; Enclosed; MWF				15.							
REACTIONS	(size) 14=18-7-0	0, 15=18-7-0, 16=18-	7-0.		C Corner(3E) -0-1							ned in accordance				
		0, 18=18-7-0, 20=18-	,		8, Corner(3R) 6-3								tions R502.11.1 and			
		0, 22=18-7-0, 23=18-	,	12-1-12 to 16-5-8, Corner(3E) 16-5-8 to 19-5-8 zone; cantilever left and right exposed ; end vertical left and									JANSI/TPLT.			
	24=18-7-0	כ ר			t and right expose				LOAD	CASE(S)) Sta	ndard				
	Max Horiz 24=191 (L	_C 13)		right exposed;C-C for members and forces & MWFRS												
	Max Uplift 14=-43 (L	.C 11), 15=-115 (LC 1	5),	for reactions shown; Lumber DOL=1.60 plate grip												
	16=-37 (L	C 15), 17=-86 (LC 15	i),	DOL=1.60												
	21=-86 (L	C 14), 22=-36 (LC 14), 3	,	ned for wind loads											
	23=-119 (LC 14), 24=-58 (LC 1	0)		ids exposed to will											
	Max Grav 14=174 (L	_C 24), 15=225 (LC 2	5),		d Industry Gable E											
	16=197 (L	_C 22), 17=255 (LC 2	2),		alified building de											
	18=205 (L	_C 22), 20=205 (LC 2	1), 4		7-16; Pr=20.0 ps											
		_C 21), 22=197 (LC 2			.15); Pf=20.0 psf							N'TH UA	ROUL			
	23=232 (L	_C 24), 24=186 (LC 2	5)		Is=1.0; Rough Cat	t B; Fully	Exp.; Ce=0.	9;			~~	A	the second second			
FORCES	(lb) - Maximum Com	pression/Maximum	_	Cs=1.00; Ct=				L			5.	C EESS	ON S			
	Tension		5	/	snow loads have	been cor	isidered for t	nis		Z	55		Rill			
TOP CHORD	2-24=-149/103, 1-2=	=0/34, 2-3=-118/104,		design.								· · · ·				
		0/173, 5-6=-133/257,	6		is been designed					-		CEA	1 1 1			
		109/203, 8-9=-133/25			psf or 1.00 times f			sron		=		SEA	• -			
	9-10=-90/173, 10-11	=-71/117, 11-12=-10	1/88, _		on-concurrent with					1	:	0363	22 : =			
	12-13=0/34, 12-14=-140/103				7) All plates are 2x4 MT20 unless otherwise indicated.											
BOT CHORD				8) Gable requires continuous bottom chord bearing.						ショント アンビー・アンビー						
	21-22=-89/101, 20-2	21=-89/101,	9	 Truss to be fully sheathed from one face or securely 							SEAL 036322					
	18-20=-89/101, 17-1		braced against lateral movement (i.e. diagonal web).							25	GIN	EFRANS				
	16-17=-89/101, 15-16=-89/101,				 Gable studs spaced at 2-0-0 oc. This truss has been designed for a 10.0 psf bottom 						CAREN					
	14-15=-89/101		1					de				11, A. G	ILLUN			
				chora live loa	ad nonconcurrent	with any	ouner live loa	us.				A. G	mm.			

May 1,2023



Job	Truss	Truss Type	Qty Ply David Weekly-10 Serenity-Roof-B		David Weekly-10 Serenity-Roof-B329 B	
23040097-01	EGR	Common Girder	1	2	Job Reference (optional)	158053281

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 28 14:18:56 ID:Ws_ekb?PSj8j0DmtCOLcX6zMBu1-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:56.2

Plate Offsets	(X, Y): [8:Edge,0-8-12], [9:0-3-8,0-4-0], [10 -	:0-5-0,0-4	-8], [11:0-3-8,0	-4-0j, [1∠:Edge,0-8	-12]							
Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 20.0 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-MSH	0.81 0.68 0.73	· · ·		(loc) 10-11 10-11 8	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 MT20HS Weight: 264 lb	GRIP 244/190 187/143 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x6 SP No.2 2x4 SP No.3 Structural wood she 5-8-7 oc purlins, ex Rigid ceiling directly bracing.	applied or 10-0-0 oc 12=0-5-8 _C 11)	5)	this design. Wind: ASCE Vasd=103mg Cat. II; Exp E zone; cantile and right exp DOL=1.60 TCLL: ASCE Plate DOL=1 DOL=1.15); Cs=1.00; Ct=		n (3-sec 3CDL=6 2S (env cposed _=1.60 (roof Ll _um DC B; Fully	cond gust) S.Opsf; h=25ft; elope) exterio ; end vertical I plate grip L: Lum DOL=1 DL=1.15 Plate · Exp.; Ce=0.9	r left I.15 ;	the LOAD (1) De In Ui	truss. CASE(S ead + Sr crease= hiform Lo Vert: 1- oncentra Vert: 10) Sta now (ba 1.15 bads (I 2=-60, ited Lo =-619 1 (B), 1	ndard alanced): Lumber b/ft) 2-4=-60, 4-6=-6(ads (lb) (B), 13=-1039 (B	o studs in line below r Increase=1.15, Plate 0, 6-7=-60, 8-12=-20 i), 14=-803 (B), 628 (B), 18=-631 (B),
FORCES	Max Grav 8=3931 (I (Ib) - Maximum Com Tension 1-2=0/34, 2-3=-4669 4-5=-3537/622, 5-6=	_C 20), 12=3538 (LC pression/Maximum 9/775, 3-4=-3536/622 4485/701, 6-7=0/34	19) 7) , 7)	design. This truss ha load of 12.0 overhangs n All plates are	snow loads have b s been designed fo psf or 1.00 times fla on-concurrent with MT20 plates unles	or great at roof le other lin ss othe	er of min roof oad of 20.0 ps ve loads. rwise indicated	live sf on					
BOT CHORD WEBS	2-12=-3394/584, 6-8 11-12=-218/505, 9-1 8-9=-121/570 4-10=-591/3486, 5-1 5-9=-139/1080, 3-10 3-11=-233/1187, 2-1 6-9=-425/3164	1=-646/3816, 0=-1146/268,)=-1304/350,		chord live loa) * This truss h on the bottor 3-06-00 tall b chord and an	is been designed for ad nonconcurrent w has been designed in chord in all areas by 2-00-00 wide will by other members.	ith any for a liv where fit betv	other live load ve load of 20.0 a rectangle ween the botto	ipsf om				ORTH CA	ROL
 (0.131"x3 Top chorc oc. Bottom ch staggered Web conn 2) All loads a except if CASE(S) provided t 	s to be connected toge ") nails as follows: ds connected as follows: nords connected as follows at 0-9-0 oc. nected as follows: 2x4 - are considered equally noted as front (F) or ba section. Ply to ply conr to distribute only loads nervise indicated.	s: 2x4 - 1 row at 0-9-(ows: 2x6 - 2 rows - 1 row at 0-9-0 oc. applied to all plies, ck (B) face in the LO, nections have been) 12 13 AD	connect trust and 8. This c consider late 2) This trust is International R802.10.2 at 8) Use Simpsor 11-10dx1 1/2 spaced at 2- end to 17-3-{ bottom chore	designed in accord Residential Code s nd referenced stand Strong-Tie HTU26 2 Truss, Single Ply 0-0 oc max. starting 3 to connect truss(e	ue to U lift only ance w sections dard AN 6 (20-11 Girder) g at 4-0 s) to ba	IPLIFT at jt(s) and does not with the 2018 s R502.11.1 at NSI/TPI 1. 0d Girder, or equivalent i-12 from the le ack face of	12 nd eft			9 N	SEA 0363	EER. KIN

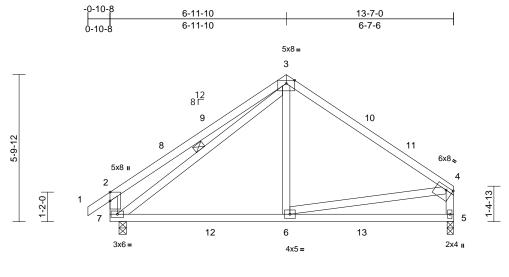
May 1,2023

818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	David Weekly-10 Serenity-Roof-B329 B	
23040097-01	F	Common	2	1	Job Reference (optional)	158053282

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 28 14:18:57 ID:jpnH6guj0VTRIsxki5gIEIzMD1n-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

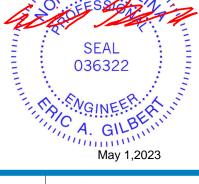




Scale = 1:45.6 Plate Offsets (X, Y): [2:0-4-3.Edge], [4:0-3-0.0-1-8]

Plate Offsets (X, Y): [2:0-4-3,Edge], [4	[4:0-3-0,0-1-8]					-						
Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	20.0 20.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018	/TPI2014	CSI TC BC WB Matrix-MSH	0.98 0.43 0.18	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.09 -0.09 0.01	(loc) 6-7 6-7 5	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 78 lb	GRIP 244/190 FT = 20%
	2x4 SP No.2 2x4 SP No.3 *Except* Structural wood sheat except end verticals. Rigid ceiling directly a bracing. 1 Row at midpt 3	thing directly applied applied or 10-0-0 oc 3-7 =0-3-8 11) 15), 7=-62 (LC 14)	4) d, 5)	Plate DOL= DOL=1.15); Cs=1.00; Ct: Unbalanced design. This truss ha load of 12.0 overhangs n This truss ha chord live loa * This truss s on the botton 3-06-00 tall l	7-16; Pr=20.0 ps 1.15); Pf=20.0 ps Is=1.0; Rough Cat =1.10 snow loads have I as been designed f psf or 1.00 times f on-concurrent with as been designed f has been designed n chord in all area by 2-00-00 wide win y other members.	(Lum DC B; Fully been con for great lat roof I n other li for a 10. with any I for a liv s where ill fit betv	DL=1.15 Plate Exp.; Ce=0. Insidered for t er of min roo bad of 20.0 p ve loads. 0 psf bottom other live loa e load of 20. a rectangle	e 9; this of live osf on ads. .0psf					
FORCES TOP CHORD BOT CHORD WEBS	(lb) - Maximum Comp Tension 1-2=0/34, 2-3=-641/43 2-7=-626/356, 4-5=-51 6-7=-235/382, 5-6=-10 3-6=-306/266, 3-7=-3	8) 9) 17	One H2.5A S recommender UPLIFT at ju and does no This truss is International	Simpson Strong-Ti ed to connect truss (s) 5 and 7. This co t consider lateral for designed in accor Residential Code	e conne s to bear onnectio orces. dance w sections	ing walls due n is for uplift ith the 2018 s R502.11.1 a	only						
 Unbalance this design Wind: ASC 	OTES Unbalanced roof live loads have been considered for this design. Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft;			R802.10.2 and referenced standard ANSI/TPI 1. LOAD CASE(S) Standard							A LAN	ORTH CA	ROLINI

Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 3-11-10, Exterior(2R) 3-11-10 to 9-11-10, Interior (1) 9-11-10 to 10-5-4, Exterior(2E) 10-5-4 to 13-5-4 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60





Job	Truss	Truss Type	Qty	Ply	David Weekly-10 Serenity-Roof-B329 B	
23040097-01	FGE	Common Supported Gable	1	1	Job Reference (optional)	158053283

6-11-10

Carter Components (Sanford), Sanford, NC - 27332,

BCLL

BCDL

1)

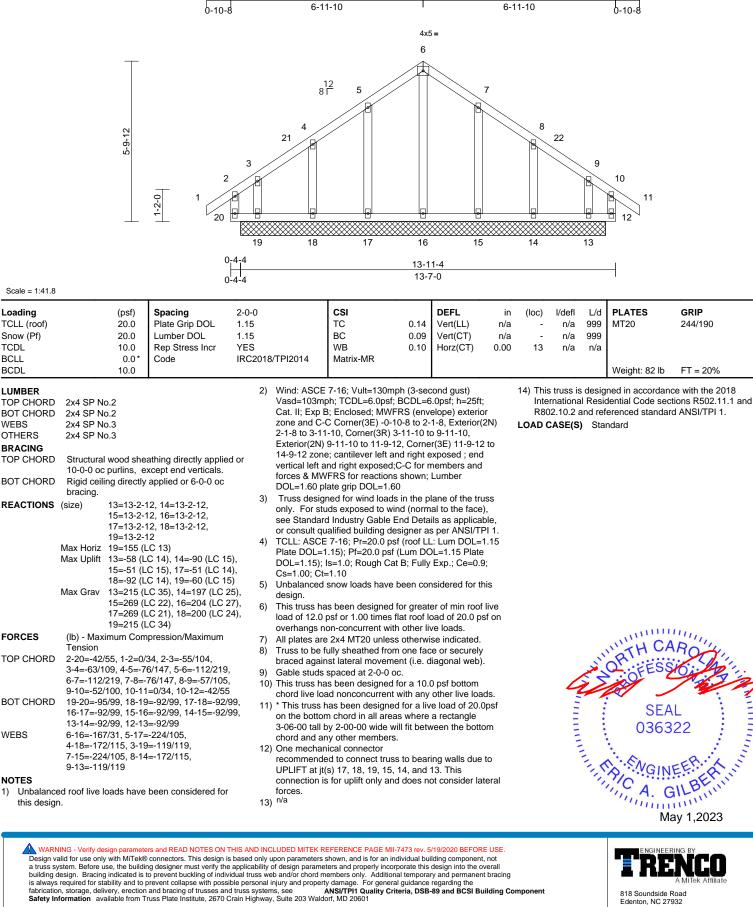
-0-10-8

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 28 14:18:57 ID:qVUv8gQtzqhqC01RU7_rhkzMD2N-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

13-11-4

Page: 1

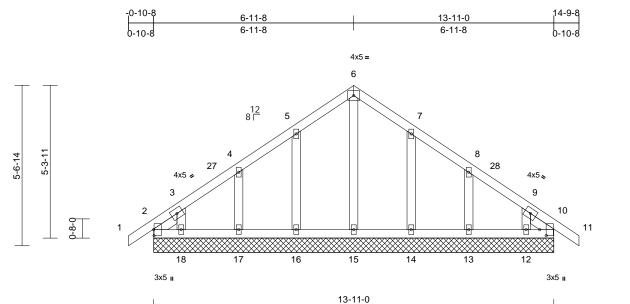
14-9-12



818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	David Weekly-10 Serenity-Roof-B329 B	
23040097-01	GGE	Common Supported Gable	1	1	Job Reference (optional)	158053284

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 28 14:18:57 ID:H5y9cKKYeyPOV7lubhBRXyzMCst-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



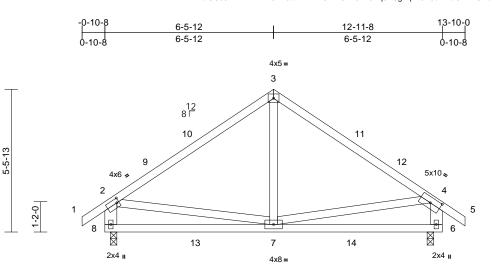
							1;	3-11-0							
Scale = 1:40.1				I									1		
Plate Offsets (X, Y): [2:0	-2-8,0-0-3],	[10:0-2-8,0-2-11]												
Loading TCLL (roof) Snow (Pf) TCDL BCLL		(psf) 20.0 20.0 10.0 0.0*	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC20	018/TPI2014	CSI TC BC WB Matrix-MSH	0.08 0.03 0.07	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	GRIP 244/190	
BCDL		10.0											Weight: 78 lb	FT = 20%	
LUMBER TOP CHORD BOT CHORD OTHERS SLIDER BRACING TOP CHORD	DP CHORD 2x4 SP No.2 DT CHORD 2x4 SP No.2 DT CHORD 2x4 SP No.3 IHERS 2x4 SP No.3 0-11-14, Right 2x4 SP No.3 0-11-14 RACING No.3 0-11-14 PC CHORD Structural wood sheathing directly applied 6-0-0 oc purlins. DT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. EACTIONS (size) 2=13-11-0, 10=13-11-0, 12=13-11-0, 14=13-11-0, 15=13-11-0, 16=13-11-0, 15=13-11-0, 18=13-10-0, 18=13-10-0, 18=100			P	15-16=-39/117, 14-15=-39/117, 13-14=-39/117, 12-13=-39/117, 10-12=-39/117, WEBS 6-15=-106/0, 5-16=-219/107, 4-17=-186/119, 3-18=-101/116, 7-14=-219/107, 8-13=-186/119, 9-12=-93/116 NOTES 8-13=-186/119, 9-12=-93/116						 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 11) * This truss has been designed for a live load of 20.0ps on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members. 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 47 lb uplift at join 				
BOT CHORD	Rigid cei	6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing. size) 2=13-11-0, 10=13-11-0, 12=13-11-0, 13=13-11-0, 14=13-11-0, 15=13-11-0,			 Unbalanced roof live loads have been considered for this design. Wind: ASCE 7-16: Vult=130mph (3-second gust) ASCE 7-16: Vult=130mph (3-second gust) ASCE 7-16: Vult=130mph (3-second gust) ASCE 7-16: Vult=130mph (3-second gust) 									18, 60 lb uplift at joint ift at joint 12, 47 lb	
bracing. REACTIONS (size) 2=13-11-0, 10=13-11-0, 12=13-11-0, 13=13-11-0, 14=13-11-0, 15=13-11-0, 16=13-11-0, 17=13-11-0, 18=13-11-0, 19=13-11-0,		12)	 Uniter Toll and Provide Generating and the presence of the provide Generating and the provide							ce with the 2018 tions R502.11.1 and					
$\begin{array}{c} 12 = 13 \cdot 11 \cdot 0, \ 13 = 13 \cdot 11 \cdot 0, \\ 14 = 13 \cdot 11 \cdot 0, \ 15 = 13 \cdot 11 \cdot 0, \\ 16 = 13 \cdot 11 \cdot 0, \ 17 = 13 \cdot 11 \cdot 0, \\ 18 = 13 \cdot 11 \cdot 0, \ 19 = 13 \cdot 11 \cdot 0, \\ 23 = 13 \cdot 11 \cdot 0, \ 19 = 13 \cdot 11 \cdot 0, \\ 23 = 13 \cdot 11 \cdot 0 \end{array}$ Max Horiz 2=-123 (LC 12), 19=-123 (LC 12), \\ Max Uplift 2=-47 (LC 10), 10=-13 (LC 11), \\ 12=-68 (LC 15), \ 13=-60 (LC 15), \\ 14=-60 (LC 15), \ 16=-61 (LC 14), \\ 17=-59 (LC 14), \ 18=-77 (LC 14), \\ 19=-47 (LC 10), \ 23=-13 (LC 11), \\ 19=-47 (LC 2), \ 10=-112 (LC 22), \\ 19=-429 (LC 25), \ 10=-112 (LC 22), \\ 12=126 (LC 25), \ 13=-227 (LC 22), \\ 14=259 (LC 22), \ 15=146 (LC 31) \end{array}), 5), 4), 4), 1) 2), 22),	NRO TIT				
		16=259 (L 18=136 (L	_C 21), 17=227 (LC 2 _C 24), 19=129 (LC 2	21), 25).	DOL=1.15 Cs=1.00; 5) Unbalance	i); Is=1.0; Rough C	at B; Fully	v Exp.; Ce=0.9	;			V	SEA	L	
FORCES	18=136 (LC 24), 19=129 (LC 25), 23=112 (LC 22) CORCES (Ib) - Maximum Compression/Maximum Tension				load of 12 overhangs 7) All plates 8) Gable req	design. This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads. All plates are 2x4 MT20 unless otherwise indicated. Gable requires continuous bottom chord bearing. Gable studs spaced at 2-0-0 oc.					SEAL 036322				
													A. C.	21, 1, 2022	

May 1,2023



Job	Truss	Truss Type	Qty	Ply	David Weekly-10 Serenity-Roof-B329 B	
23040097-01	н	Common	4	1	Job Reference (optional)	158053285

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 28 14:18:58 ID:bfGOJ8MZD?XWYZ9mx9bVf?zMDGf-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



0-2-8	6-5-12	12-7-8	12-11-8
0-2-8	6-3-4	6-1-12	0-4-0

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

Scale = 1:44.2

Loading (psf) Spacing 2-0-0 CSI DEFL in (loc) //defl L/d TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.79 Vert(LL) 0.06 7-8 >999 240	PLATES GRIP MT20 244/190
Snow (Pf) 20.0 Lumber DOL 1.15 BC 0.35 Vert(CT) -0.06 7-8 >999 180 TCDL 10.0 Rep Stress Incr YES WB 0.16 Horz(CT) 0.00 6 n/a n/a BCLL 0.0* Code IRC2018/TPI2014 Matrix-MSH Horz(CT) 0.00 6 n/a n/a	Weight: 75 lb FT = 20%
 LUMBER TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.3 "Except" 8-2,6-4:2x6 SP No.2 BRACING TOP CHORD Structural wood sheathing directly applied or 6-0-0 co purlins, except end verticals. BOT CHORD Structural wood sheathing directly applied or 10-0-0 co bracing. REACTIONS (size) 6-0-3-0, 8=-0-3-0 Max Uplift 6=-61 (LC 12) Max Uplift 6=-61 (LC 12), Max Grav 6=654 (LC 22), 8=654 (LC 21) Max Grav 6=654 (LC 22), 8=654 (LC 21) FORCES (b) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/37, 2-3=-590/430, 4-4=-590/365 BOT CHORD 7-8=-202/365, 6-7=-169/365 WEBS 3-7=-300/238, 4-7=-116/241, 2-7=-111/241 NOTES 1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vaad=103mph; TCDL=6.0psf; he-20-19, structure (TE) -0-0-16, 10-2-13, Interior (1) 9-5-12 to 10-10-0, 61-3-19, Interior (1) 9-5-12 to 10-10-0, 695; herce-1160/216; public reprosed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS (revelope) exterior zone: cantelever left and right exposed; C-C for members and forces & MWFRS (revelope) exterior zone: cantelever left and right exposed; C-C for members and forces & MWFRS for reactions bown; Lumber DOL=-1.16, pilse 10; Pn=20.0 psf (ILCL LLL mD DOL=-1.15 Plate DOL=-1.15; Is=-10; Reving CE 2) -0.9 st (ILL LL mD DOL=-1.15 Plate DOL=-1.05; Is=-12, network (LL LL mD DOL=-1.15 Plate DOL=-1.05; Is=-12, network (LC 20, ps; Is=-20, psf (ordL LL LL mD DOL=-1.15 Plate DOL=-1.05; Is=-12, Rough Cat B; Fully Exp.; Ce=0.9; 	SEAL 036322

- 2-1-8 to 3-5-12, Exterior(2R) 3-5-12 to 9-5-12, Interior (1) 9-5-12 to 10-10-0, Exterior(2E) 10-10-0 to 13-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 3) Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

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

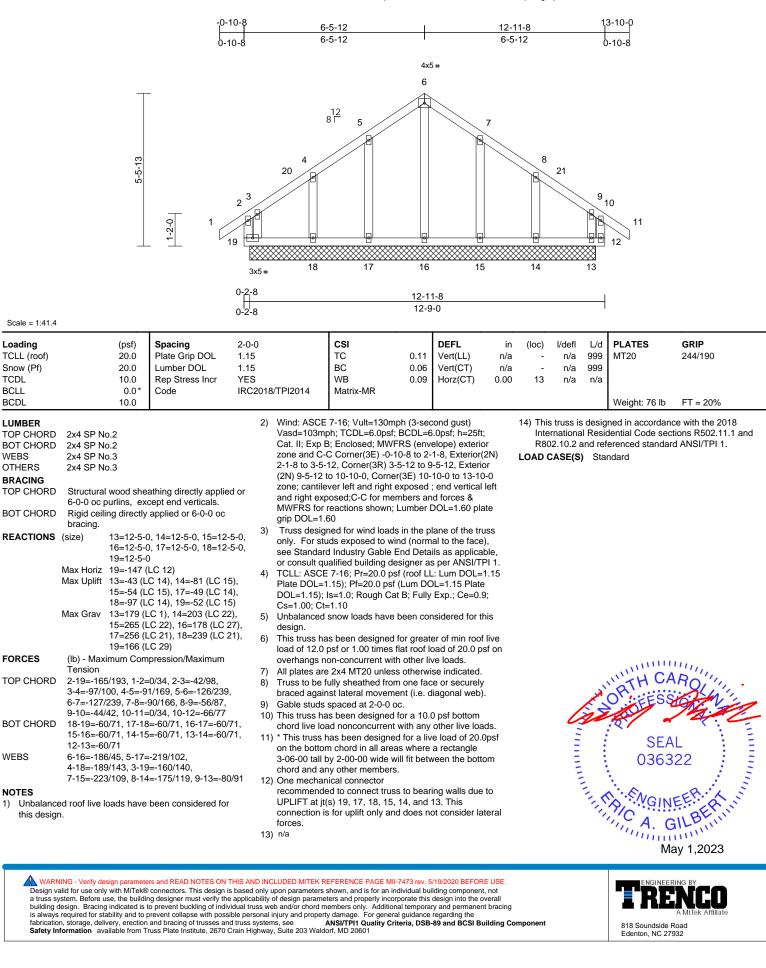


GI minim

May 1,2023

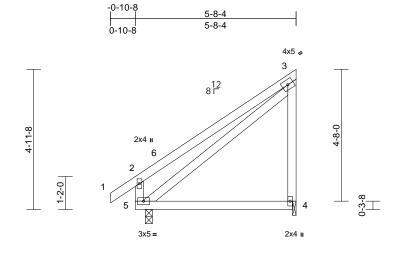
Job	Truss	Truss Type	Qty	Ply	David Weekly-10 Serenity-Roof-B329 B	
23040097-01	HGE	Common Supported Gable	1	1	Job Reference (optional)	158053286

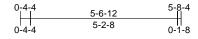
Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 28 14:18:58 ID:4Z51CcRpxX4FZrkeSa9c43zMDE_-RfC?PsB70Hq3NSqPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Job	Truss	Truss Type	Qty	Ply	David Weekly-10 Serenity-Roof-B329 B	
23040097-01	I	Monopitch	4	1	Job Reference (optional)	158053287

Run: 8,53 S Mar 9 2023 Print: 8,530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 28 14:18:58 ID:nEFoOQTSTYeU8OA94u2Fj5zMD10-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:40.8

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15		TC	0.94	Vert(LL)	0.13	4-5	>487	240	MT20	244/190	
Snow (Pf) TCDL	20.0	Lumber DOL	1.15 YES		BC WB	0.46	Vert(CT)	0.10	4-5 4	>633	180			
BCLL	10.0 0.0*	Rep Stress Incr Code		8/TPI2014	Matrix-MP	0.20	Horz(CT)	0.00	4	n/a	n/a			
BCDL	10.0	Code	IRC201	0/1712014	IVIAUIX-IVIP							Weight: 38 lb	FT = 20%	
BOT CHORD 2x4 S WEBS 2x4 S BRACING TOP CHORD Struc 1-4-1 BOT CHORD Rigid bracit REACTIONS (size) Max Hu Max G	2 oc purlins, e ceiling directly ng. 4=0-1-8, priz 5=172 (L plift 4=-108 (I rav 4=318 (L Maximum Cor		7) c 8) 4) 9)	chord live lo * This truss on the botto 3-06-00 tall chord and a Bearings are capacity of § Bearing at jo using ANSI/ designer shu Provide med bearing plat 0) One H2.5A recommend	bint(s) 4 considers TPI 1 angle to gra buld verify capacit chanical connectio e at joint(s) 4. Simpson Strong-T ed to connect trus	with any d for a liv as where vill fit betw s. Joint 4 SI parallel in formul y of bear nn (by oth Tie conne is to bear	other live load e load of 20.1 a rectangle veen the both P No.3 crushi to grain value a. Building ing surface. ers) of truss to ctors ing walls due	Opsf om ing to to						
TOP CHORD 1-2=0		/224, 3-4=-264/155,		and does no	(s) 4 and 5. This of the consider lateral f	forces.		oniy						
BOT CHORD 4-5=-			11		designed in accord Residential Code			and						
	244/111				ind referenced sta									
NOTES			LC	DAD CASE(S)	Standard									
1) Wind: ASCE 7-16	· ·	· · · · · ·												
		CDL=6.0psf; h=25ft										TH CA	11111	
		RS (envelope) exterio									10	W'TH CA	Rolly	

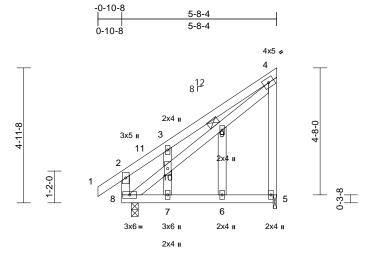
- zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 2-6-8, Exterior(2E) 2-6-8 to 5-6-8 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 2) Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this 3) desian.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.

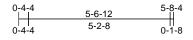




Job	Truss	Truss Type	Qty	Ply	David Weekly-10 Serenity-Roof-B329 B		
23040097-01	ISE	Monopitch	1	1	Job Reference (optional)	158053288	

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 28 14:18:59 ID:INPZ5e0g9muGd0LDY9HBQAzMCx9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:42.3

Scale = 1.42.5													
Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/	TPI2014	CSI TC BC WB Matrix-MSH	0.39 0.24 0.39	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.04 -0.05 0.00	(loc) 6-7 6-7 5	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 44 lb	GRIP 244/190 FT = 20%
FORCES TOP CHORD BOT CHORD WEBS 1) Wind: ASC Vasd=103 Cat. II; Exp zone and 0 2-1-8 to 2- cantilever right expos members a Lumber D0 2) Truss des only. For see Stand	2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Structural wood she 5-8-4 oc purlins, ex Rigid ceiling directly bracing. 1 Brace at Jt(s): 9 (size) 5=0-1-8, 8 Max Horiz 8=172 (LC Max Uplift 5=-108 (L Max Grav 5=318 (LC (lb) - Maximum Com Tension 1-2=0/34, 2-3=-314/ 4-5=-260/231, 2-8=- 7-8=-68/65, 6-7=-68 8-10=-425/208, 9-10	applied or 10-0-0 oc 8=0-3-0 C 11) C 11), 8=-22 (LC 14; C 21), 8=364 (LC 21) pression/Maximum 410, 3-4=-356/469, 313/393 /65, 5-6=-68/65)=-460/252, 94/42, 3-10=-199/11 (G-second gust) CDL=6.0psf; h=25ft; S (envelope) exterior -8 to 2-1-8, Interior (8 to 5-6-8 zone; ; end vertical left and the exposed; C-C for for reactions shown;)L=1.60 In the plane of the true (normal to the face) d Details as applicab	4) d or 5) ; 6) 7) 8) 9) 10) 11) 4, 12) 13) 1, 14) 5 5 5 6 6,	Plate DOL=1 DOL=1.15); Cs=1.00; Ct= Unbalanced design. This truss ha load of 12.0 overhangs nr Truss to be f braced again Gable studs This truss ha chord live loa * This truss ha chord live loa * This truss ha on the bottor 3-06-00 tall b chord and ar Bearing a tjo using ANSI/T designer sho Provide mect One H2.5A S recommende UPLIFT at jt(and does not This truss is International	snow loads have s been designed performed and the second and the space of the second and the spaced at 2-0-0 of s been designed an onconcurrent has been designe n chord in all area by 2-00-00 wide w by other members assumed to be second for psi. (s) 5 considers PI 1 angle to gra uld verify capacit hanical connection at joint(s) 5. Simpson Strong-T ad to connect trus s) 5 and 8. This of to consider lateral if designed in accon Residential Code and referenced sta	(Lum DC t B; Fully been cor for great flat roof li h other li n one fac ent (i.e. c cc. for a 10.) with any d for a liv as where vill fit betw b. Joint 5 SI parallel in formul y of bear n (by oth "ie conne s to bear connectio forces.	DL=1.15 Plate Exp.; Ce=0. Insidered for t er of min roo and of 20.0 p ve loads. e or securely iagonal web, 0 psf bottom other live loa e load of 20. 0 psf bottom other live loa e load of 20. 0 psf bottom other live loa a rectangle ween the bott P No.3 crush to grain value a. Building ing surface. ers) of truss ctors ing walls due n is for uplift ith the 2018 s R502.11.1 a	e 9; his f live sof on y). ads. Opsf ing e to to e to only			23	SEA 0363	EER. Humin

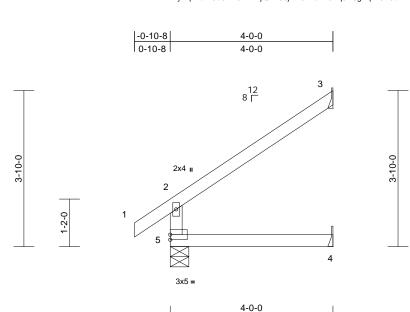
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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



May 1,2023

Job	Truss	Truss Type	Qty	Ply	David Weekly-10 Serenity-Roof-B329 B		
23040097-01	J	Jack-Open	22	1	Job Reference (optional)	158053289	

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 28 14:18:59 ID:PyvlqhZumGu8RvIJPEZ4jQzMCJj-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:28.3

Scale = 1.20.5												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	0.02	4-5	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.02	4-5	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.03	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MR		()		-				
BCDL	10.0										Weight: 16 lb	FT = 20%
4-0-0 oc pu BOT CHORD Rigid ceilin bracing. REACTIONS (size) 5 Max Horiz 5 Max Uplift 3 Max Grav 3	.2 .3 wood she urlins, ex g directly 3= Mecha 5=0-5-8 5=102 (L0 3=-78 (L0 3=166 (L0		on the bo 3-06-00 t chord an 7) All bearin capacity 6 c 9) Provide r bearing p 3. al, 10) This truss Internatic R802.10.	ss has been designe titom chord in all are all by 2-00-00 wide w d any other members gs are assumed to b of 425 psi. girder(s) for truss to the nechanical connection late capable of withs is is designed in account in Residential Code 2 and referenced sta (S) Standard	as where will fit betw s. De User D truss conr on (by oth standing 7 ordance w e sections	a rectangle veen the botto efined crushin nections. ers) of truss to '8 Ib uplift at jo ith the 2018 5 R502.11.1 at	br ng D Dint					
FORCES (lb) - Maxin Tension		pression/Maximum										
	92, 1-2=0/	57, 2-3=-119/71										
NOTES	400 1	(0)										
 Wind: ASCE 7-16; Vult: Vasd=103mph; TCDL= Cat. II; Exp B; Enclosee zone and C-C Exterior(exposed ; end vertical I members and forces & Lumber DOL=1.60 plat TCLL: ASCE 7-16; Pr=: 	6.0psf; B d; MWFR (2E) zone left and rig MWFRS e grip DC	CDL=6.0psf; h=25ft; S (envelope) exterio ; cantilever left and r ght exposed;C-C for for reactions shown pL=1.60	or right r;						4	A. I.	ORTH CA	
Plate DOL=1.15); Pf=20 DOL=1.15); Is=1.0; Rou Cs=1.00; Ct=1.10	0.0 psf (L ugh Cat E	um DOL=1.15 Plate 3; Fully Exp.; Ce=0.9	9 9;								SEA 0363	• -
 Unbalanced snow loads design. 	s have be	en considered for th	his							- e	¥.	1.1
 4) This truss has been des load of 12.0 psf or 1.00 overhangs non-concurr 	times fla	t roof load of 20.0 ps							ŝ		SEA 0363	EEREALIN
 This truss has been des chord live load noncond 			ds.								201111	ay 1,2023



Job	Truss	Truss Type	Qty	Ply	David Weekly-10 Serenity-Roof-B329 B	
23040097-01	JGE	Jack-Open Supported Gable	1	1	Job Reference (optional)	158053290

4-0-0

4-0-0

12 8 Г

2x4 II 3

ø

-0-10-8

0-10-8

3x5 II

3-10-0

1-2-0

Carter Components (Sanford), Sanford, NC - 27332,

Run: 8.53 E Oct 7 2022 Print: 8.530 E Oct 7 2022 MiTek Industries, Inc. Mon May 01 10:10:36 ID:h1JzkGRc6CdZENXOp8NkJJzMCJt-D8EXomEuKJNtSiUn5wsyjzznsFT4EAqRJp1H7GzKv0J

2x4 II

4 6 Page: 1

3-10-0 2 0 0 7 5 \otimes 6 2x4 II 2x4 🛚 2x4 🛛 4-0-0

Scale = 1:34.2

Scale = 1:34.2													
Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	8/TPI2014	CSI TC BC WB Matrix-MR	0.40 0.43 0.08	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 5	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 24 lb	GRIP 244/190 FT = 20%
	Max Horiz 6=131 (LC Max Uplift 5=-137 (L Max Grav 5=67 (LC (Ib) - Max. Comp./Max	cept end verticals. applied or 6-0-0 oc C 11) C 25), 6=-38 (LC 14 10), 6=678 (LC 21) ax. Ten All forces	l)	braced agair Gable studs This truss ha chord live loa * This truss h on the bottor 3-06-00 tall b	ully sheathed fror ist lateral movem spaced at 2-0-0 c is been designed ad nonconcurrent has been designe n chord in all area by 2-00-00 wide w by other members	ent (i.e. d oc. for a 10.0 with any d for a liv as where vill fit betw	iagonal web)) psf bottom other live loa e load of 20.0 a rectangle	ds. Dpsf					
WEBS	(lb) or less except w 3-6=-396/246	hen shown.											
NOTES	0 0- 000/210												
1) Wind: ASC Vasd=103 Cat. II; Exp zone and C exposed ; members a Lumber DC	CE 7-16; Vult=130mph mph; TCDL=6.0psf; Bi p B; Enclosed; MWFR C-C Corner(3E) zone; end vertical left and ri and forces & MWFRS OL=1.60 plate grip DC	CDL=6.0psf; h=25ft; S (envelope) exterior cantilever left and ri ght exposed;C-C for for reactions shown DL=1.60	or ght ;								- AN	OR EESS	ROUT
only. For see Standa	signed for wind loads ir studs exposed to wind lard Industry Gable En- qualified building desig	l (normal to the face) d Details as applical), ble,							6	N	SEA	
3) TCLL: ASC Plate DOL DOL=1.15 Cs=1.00; 0	CE 7-16; Pr=20.0 psf (_=1.15); Pf=20.0 psf (L 5); Is=1.0; Rough Cat E Ct=1.10	roof LL: Lum DOL= um DOL=1.15 Plate 3; Fully Exp.; Ce=0.9	1.15);							1111AAAA			• -
design. 5) This truss load of 12.	ed snow loads have be has been designed fo .0 psf or 1.00 times fla s non-concurrent with c	r greater of min roof t roof load of 20.0 ps	live									201111	

May 1,2023



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

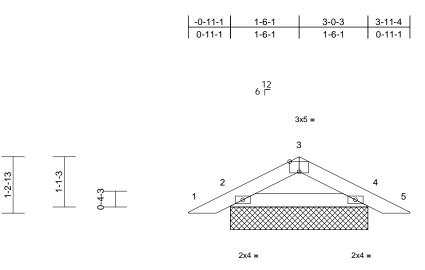
Job	Truss	Truss Type	Qty	Ply	David Weekly-10 Serenity-Roof-B329 B	
23040097-01	PB1	Piggyback	10	1	Job Reference (optional)	158053291

Run: 8,53 S Mar 9 2023 Print: 8,530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 28 14:18:59 ID:ksn03tXTw0Suqz7L58mmLnzMDIQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

3-0-3



Page: 1



Scale = 1:25.3

3)

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

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;

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.

Lumber DOL=1.60 plate grip DOL=1.60

Loading (psf) Spacing 2-0-0 CSI DEFL in (loc) l/defl L/d PLATE TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.05 Vert(LL) n/a - n/a 999 MTC Snow (Pf) 20.0 Lumber DOL 1.15 BC 0.05 Vert(CT) n/a - n/a 999 TCDL 10.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 10 n/a n/a BCLL 0.0* Code IRC2018/TPI2014 Matrix-MP Vertice Vertice Vertice Vertice	ES GRIP 244/190
BCDL 10.0 Weight	t: 13 lb FT = 20%
LUMBER 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 BRACING DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10 TOP CHORD Structural wood sheathing directly applied or 4-11-5 oc purlins. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. REACTIONS (size) 2=3-0-3, 4=3-0-3, 6=3-0-3, 10=3-0-3 Max Horiz 2=-17 (LC 15), 6=-17 (LC 15), 6=-24 (LC 14), 4=-19 (LC 15), 6=-24 (LC 14), 10=-19 (LC 15), 6=-24 (LC 14), 10=-19 (LC 15), 6=-24 (LC 21), 10=201 (LC 22), 6=192 (LC 21), 10=201 (LC 22) Max Grav 2=192 (LC 21), 4=201 (LC 22), 6=192 (LC 21), 10=201 (LC 22) Max Grav 2=192 (LC 21), 2=00 (LC 22) Max Grav 2=192 (LC 21), 2=00 (LC 22) Max Grav 2=192 (LC 21), 2=00 (LC	
FORCES (lb) - Maximum Compression/Maximum Tension chord and any other members. TOP CHORD 1-2=0/23, 2-3=-101/59, 3-4=-104/57, 4-5=0/23 11) One MECHANICAL connector recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only	
BOT CHORD 2-4=-1/88 and does not consider lateral forces. NOTES 1) Unbalanced roof live loads have been considered for this design. 12) This truss is designed in accordance with the 2018 1) Unbalanced roof live loads have been considered for this design. 12) This truss is designed in accordance with the 2018 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) 13) See Standard Industry Piggyback Truss Connection Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior 13) See Standard Industry Piggyback Truss connection	H CARO

LOAD CASE(S) Standard



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



Job	Truss	Truss Type	Qty	Ply	David Weekly-10 Serenity-Roof-B329 B	
23040097-01	V1	Valley	1	1	Job Reference (optional)	158053292

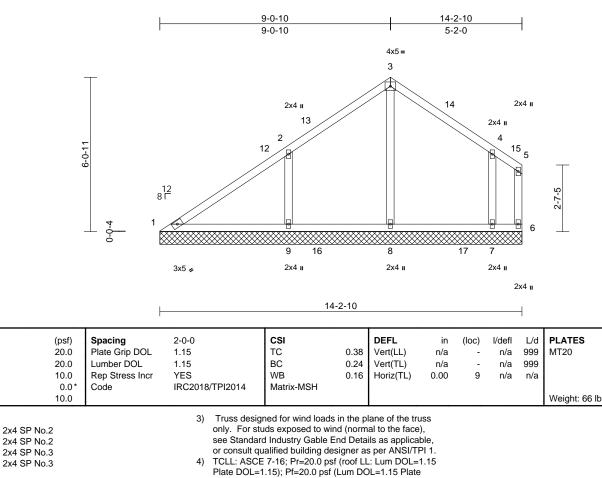
Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 28 14:19:00 ID:?rB5QY9yygQK2QQt7KhNiVzMDAT-RfC?PsB70Hg3NSgPgnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

GRIP

244/190

FT = 20%



BRACING	
TOP CHORD	Structural wood sheathing directly applied or
	6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

- REACTIONS (size) 1=14-2-10, 6=14-2-10, 7=14-2-10, 8=14-2-10, 9=14-2-10 Max Horiz 1=167 (LC 11) Max Uplit 1=-12 (LC 10), 6=-133 (LC 6), 7=-131 (LC 15), 9=-158 (LC 14) Max Grav 1=196 (LC 24), 6=46 (LC 15),
 - 7=500 (LC 24), 0=40 (LC 13), 7=500 (LC 21), 8=411 (LC 23), 9=562 (LC 5)
- FORCES
 (lb) Maximum Compression/Maximum Tension

 TOP CHORD
 1-2=-292/178, 2-3=-130/143, 3-4=-118/141, 4-5=-44/114, 5-6=-52/110

 BOT CHORD
 1-9=-49/223, 8-9=-46/45, 7-8=-46/45,
- 6-7=-46/45 WEBS 3-8=-245/34, 2-9=-429/192, 4-7=-419/172
- NOTES

Scale = 1:45.2

TCLL (roof)

Snow (Pf)

LUMBER

TOP CHORD

BOT CHORD

TCDL

BCLL

BCDL

WEBS

OTHERS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-6 to 3-0-6, Interior (1) 3-0-6 to 6-1-0, Exterior(2R) 6-1-0 to 11-1-4, Exterior(2E) 11-1-4 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

- ICLL: ASCE 7-16; Pr=20.0 psf (root LL: Lum DOL=1.7 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 6) Gable requires continuous bottom chord bearing.
- 7) 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.
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 133 lb uplift at joint 6, 12 lb uplift at joint 1, 158 lb uplift at joint 9 and 131 lb uplift at joint 7.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

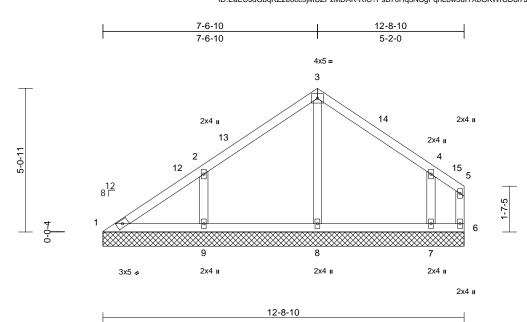




WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 MSI/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	David Weekly-10 Serenity-Roof-B329 B	
23040097-01	V2	Valley	1	1	Job Reference (optional)	158053293

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 28 14:19:00 ID:EaEUJdGbqRZ2eocc9jMUZPzMDAK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:40.6

Loading TCLL (roof) Snow (Pf) TCDL BCLL	(psf) 20.0 20.0 10.0 0.0*	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC 0.3 BC 0.1 WB 0.1 Matrix-MSH	1 Vert(TL)	in n/a n/a 0.00	(loc) - - 9	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 244/190
BCDL	10.0									Weight: 55 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. (size) 1=12-8-10 8=12-8-11 Max Horiz 1=131 (L0 Max Uplift 1=-18 (L0 7=-138 (L Max Grav 1=126 (L0 9=477 (L0	r applied or 6-0-0 oc 0, 6=12-8-10, 7=12-8- 0, 9=12-8-10 C 11) C 10), 6=-120 (LC 21), C 15), 9=-128 (LC 14 C 24), 6=53 (LC 15), C 21), 8=332 (LC 21), C 20)	 only. For sti see Standar or consult qu TCLL: ASCE Plate DOL=' DOL=1.15); Cs=1.00; Ct: Unbalanced design. Gable requir This truss ha chord live los 9) * This truss l on the bottoo 3-06-00 tall chord and an Provide med 	snow loads have been of res continuous bottom cl spaced at 4-0-0 oc. as been designed for a 1 ad nonconcurrent with a has been designed for a m chord in all areas whe by 2-00-00 wide will fit b y other members.	mal to the face tails as applica as per ANS/T LL: Lum DOL= DOL=1.15 Plate Ily Exp.; Ce=0. onsidered for t ord bearing. 0.0 psf bottom by other live load live load of 20. re a rectangle etween the bott thers) of truss	e), able, PI 1. =1.15 e 9; this ads. .0psf tom to					
FORCES TOP CHORD	(lb) - Maximum Corr Tension 1-2=-179/139, 2-3=- 4-5=-46/113, 5-6=-5	·125/122, 3-4=-119/12	joint 6, 18 lb 22, 138 lb uplift	e capable of withstandin uplift at joint 1, 128 lb u at joint 7. designed in accordance	olift at joint 9 ar						
BOT CHORD	1-9=-34/126, 8-9=-3 6-7=-33/33		International	Residential Code section nd referenced standard	ns R502.11.1 a	and				WITH CA	RO
WEBS	3-8=-252/20, 2-9=-3	89/167, 4-7=-418/175	5 LOAD CASE(S)	Standard					5	R	DUNIN
NOTES								/	S.A	FESO	PALA
	ed roof live loads have	been considered for						Q			ng -
Vasd=103 Cat. II; Ex zone and 3-0-6 to 4 9-7-4 to 12 end vertice forces & M	n. CE 7-16; Vult=130mph mph; TCDL=6.0psf; B p B; Enclosed; MWFR C-C Exterior(2E) 0-0-6 -7-0, Exterior(2R) 4-7- -2-7-4 zone; cantilever al left and right expose MWFRS for reactions s) plate grip DOL=1.60	CDL=6.0psf; h=25ft; S (envelope) exterior 5 to 3-0-6, Interior (1) 0 to 9-7-4, Exterior(2E left and right exposed ed;C-C for members a	;					011111111		SEA 0363	EER HILL

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



May 1,2023

Job	Truss	Truss Type	Qty	Ply	David Weekly-10 Serenity-Roof-B329 B	
23040097-01	V3	Valley	1	1	Job Reference (optional)	158053294

Scale = 1:36.1

Loading

TCLL (roof)

Snow (Pf)

LUMBER

OTHERS

BRACING

TOP CHORD

BOT CHORD

TOP CHORD

BOT CHORD

FORCES

TOP CHORD

BOT CHORD

WEBS

NOTES

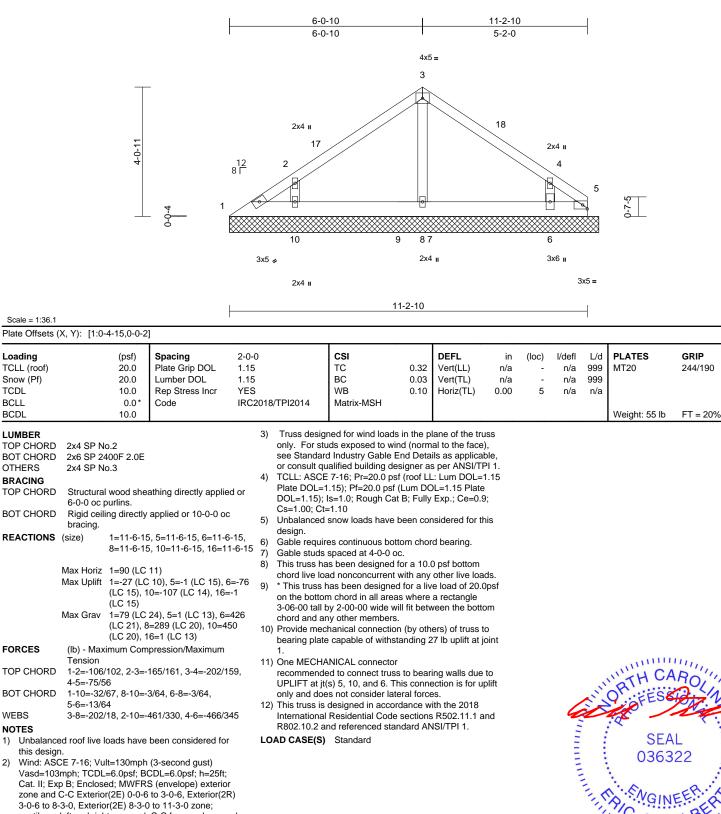
1)

TCDL

BCLL

BCDL

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 28 14:19:00 ID:eQR2VTV87a4C1t8SKwjANdzMDA0-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Wind: ASCE 7-16; Vult=130mph (3-second gust) 2) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-6 to 3-0-6, Exterior(2R) 3-0-6 to 8-3-0, Exterior(2E) 8-3-0 to 11-3-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60



G

mm

May 1,2023

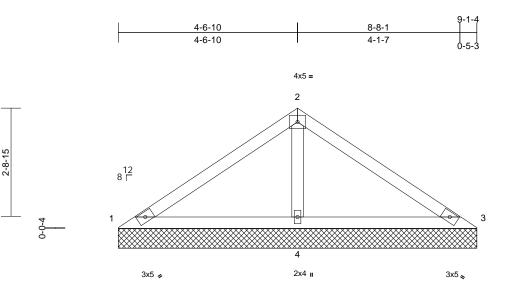
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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/TPI 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	David Weekly-10 Serenity-Roof-B329 B	
23040097-01	V4	Valley	1	1	Job Reference (optional)	158053295

3-0-11

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 28 14:19:01 ID:t9USOYco?LCwcFKBMJNHEWzMD9t-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



9-1-4

Scale = 1:29.2

00010 = 1.20.2												
Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC BC WB Matrix-MSH	0.37 0.36 0.12	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 32 lb	GRIP 244/190 FT = 20%
	9-1-4 oc purlins. Rigid ceiling directly bracing. (size) 1=9-1-4, 3 Max Horiz 1=-68 (LC Max Uplift 1=-34 (LC 4=-71 (LC Max Grav 1=120 (LC 4=694 (LC	3=9-1-4, 4=9-1-4 C 10) C 21), 3=-34 (LC 20), C 14) C 20), 3=120 (LC 21) C 21)	 Plate DOL=² DOL=1.15); Cs=1.00; Ct: Unbalanced design. Gable requir Gable studs This truss ha chord live lo: * This truss lo on the botton 3-06-00 tall chord and an * 10) Provide mec 	57-16; Pr=20.0 psf (t 1.15); Pf=20.0 psf (t Is=1.0; Rough Cat B =1.10 snow loads have be es continuous bottor spaced at 4-0-0 oc. as been designed for ad nonconcurrent win as been designed for n chord in all areas by 2-00-00 wide will f ny other members. hanical connection (e capable of withstar	um DC en cor m chor r a 10.0 th any or a liv where fit betv (by oth	DL=1.15 Plate Exp.; Ce=0.5 nsidered for th d bearing. D psf bottom other live loa e load of 20.0 a rectangle veen the botto ers) of truss t	ds. Dpsf om					
FORCES TOP CHORD BOT CHORD WEBS	(lb) - Maximum Com Tension 1-2=-109/344, 2-3=- 1-4=-205/137, 3-4=- 2-4=-528/206	-109/344	1, 34 lb uplif 11) This truss is International	t at joint 3 and 71 lb designed in accorda Residential Code se nd referenced stand	uplift a ance w ections	it joint 4. ith the 2018 s R502.11.1 a						
NOTES 1) Unbalance	ed roof live loads have	been considered for									mm	1111.

this design.
Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-6 to 3-0-6, Exterior(2R) 3-0-6 to 6-1-10, Exterior(2E) 6-1-10 to 9-1-10 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

 Truss designed for wind loads in the plane of the truss 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.

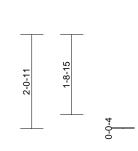
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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/TP11** Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

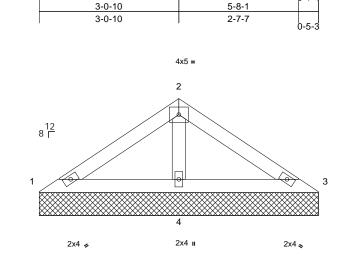


A MiTek Affilia 818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	David Weekly-10 Serenity-Roof-B329 B	
23040097-01	V5	Valley	1	1	Job Reference (optional)	158053296

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 28 14:19:01 ID:AVP5sxiBMV5xyKNXGH?w1?zMD9m-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





6-1-4

Scale = 1:25.2

Loading		(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)		20.0	Plate Grip DOL	1.15		тс	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)		20.0	Lumber DOL	1.15		BC	0.17	Vert(TL)	n/a	-	n/a	999		
TCDL		10.0	Rep Stress Incr	YES		WB	0.05	Horiz(TL)	0.00	4	n/a	n/a		
BCLL		0.0*	Code	IRC2018/	TPI2014	Matrix-MP								
BCDL		10.0											Weight: 21 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No. 2x4 SP No. Structural v 6-1-4 oc pu Rigid ceilin, bracing. (size) 1 Max Horiz 1 Max Uplift 1 (Max Grav 1 (2 3 vood shea rrlins. g directly 1=6-1-4, 3 1=-44 (LC 1=-3 (LC - 'LC 14) 1=98 (LC LC 20)	14), 3=-11 (LC 15), 4 20), 3=98 (LC 21), 4	6) 7) 8) d or 9) =-38 =398 11)	design. Gable requir Gable studs This truss ha chord live loa * This truss h on the bottor 3-06-00 tall b chord and ar Provide mec bearing plate 1, 11 lb uplift This truss is International	snow loads have es continuous bo spaced at 4-0-0 is been designed ad nonconcurren has been designed n chord in all are by 2-00-00 wide v hoy other members hanical connection e capable of withs at joint 3 and 38 designed in accc Residential Codu nd referenced sta	ottom chor oc. d for a 10.1 t with any ed for a liv eas where will fit betv s. on (by oth standing 3 b lb uplift a ordance w e sections	d bearing. D psf bottom other live loa e load of 20.0 a rectangle veen the bott ers) of truss 1 B lb uplift at jo it joint 4. ith the 2018 s R502.11.1 a	ads. Opsf om to					
FORCES	(lb) - Maxin Tension	num Com	pression/Maximum	LOA	AD CASE(S)	Standard								
TOP CHORD BOT CHORD WEBS NOTES	1-2=-96/16 1-4=-123/1 2-4=-265/1	06, 3-4=-												
	ed roof live lo	ads have	been considered for											116
 this design Wind: ASI Vasd=103 Cat. II; Ex zone and exposed; members Lumber D Truss des only. For see Standor or consult TCLL: AS Plate DOI 	n. CE 7-16; Vult= p B; Enclosec C-C Exterior(: end vertical li and forces & OL=1.60 platt signed for win studs expose lard Industry (qualified buil CE 7-16; Pr=2 =1.15); Pf=2(5);	=130mph 6.0psf; B(1; MWFR3 2E) zone; eft and rig MWFRS e grip DO d loads ir d to wind 3able Enc ding desig 20.0 psf (Li	(3-second gust) CDL=6.0psf; h=25ft; S (envelope) exterior cantilever left and ri ht exposed;C-C for for reactions shown;	ght SS Ie, I 1. .15							A CONTRACT	A MARTINE TO A MAR	SEA 0363	22

May 1,2023



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

Job	Truss	Truss Type	Qty	Ply	David Weekly-10 Serenity-Roof-B329 B	
23040097-01	V6	Valley	1	1	Job Reference (optional)	158053297

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 28 14:19:01 ID:?fmN7_mxxLr4gFqgdY6KGGzMD9g-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

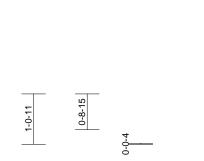
2-8-1

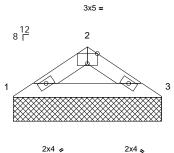
1-1-7

1-6-10

1-6-10

Page: 1





3-1-4

Scale = 1:24.1

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

	(i, i): [2:0 2 0;20g0]											
Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI:	CSI TC BC WB 2014 Matrix-MP	0.07 0.08 0.00	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 9 lb	GRIP 244/190 FT = 20%
-	10.0		7) 0-1								weight: 9 lb	F1 = 20%
	2x4 SP No.2 Structural wood she 3-1-4 oc purlins. Rigid ceiling directly bracing. (size) 1=3-1-4, 3 Max Horiz 1=21 (LC	applied or 10-0-0 o 3=3-1-4 13)	8) This cho 9) * Tr ed or on t 3-00 c cho c 10) Pro bea 1 a 11) This	ele studs spaced at 4-0-0 truss has been designed rd live load nonconcurren is truss has been designe he bottom chord in all are 5-00 tall by 2-00-00 wide rd and any other member vide mechanical connecti ring plate capable of with id 12 lb uplift at joint 3.	d for a 10. t with any ed for a liv eas where will fit betw 's. on (by oth standing '	other live loa ve load of 20.0 a rectangle ween the botto vers) of truss t 12 lb uplift at j	0psf om to					
	Max Uplift 1=-12 (LC Max Grav 1=140 (LC		, inte	rnational Residential Cod 2.10.2 and referenced sta			and					
FORCES	(lb) - Maximum Com Tension	pression/Maximum		CASE(S) Standard	anuaru Ar	NSI/TELT.						
TOP CHORD BOT CHORD	1-2=-193/74, 2-3=-1 1-3=-48/153	93/74										
NOTES												
,	ed roof live loads have	been considered fo	r									
Vasd=103 Cat. II; Exp zone and (exposed ; members a	CE 7-16; Vult=130mph imph; TCDL=6.0psf; B(p B; Enclosed; MWFR: C-C Exterior(2E) zone: end vertical left and rig and forces & MWFRS OL=1.60 plate grip DO	CDL=6.0psf; h=25ft; S (envelope) exterio ; cantilever left and ght exposed;C-C for for reactions shown	r right						L		OR THESE	ARONNI .
only. For see Stands or consult	signed for wind loads ir studs exposed to wind ard Industry Gable En- qualified building desig CE 7-16; Pr=20.0 psf ((normal to the face) d Details as applical gner as per ANSI/TF), ole, PI 1.						111111		SEA 0363	
Plate DOL DOL=1.15 Cs=1.00; (=1.15); Pf=20.0 psf (L i); Is=1.0; Rough Cat B Ct=1.10	um DOL=1.15 Plate 3; Fully Exp.; Ce=0.9);								RIC NGIN	EERAL
 Unbalance design. 	ed snow loads have be	en considered for th	nis								A. C	AILDUNN
· ·	· · · · ·											

6) Gable requires continuous bottom chord bearing.

818 Soundside Road Edenton, NC 27932

A. GILBEN

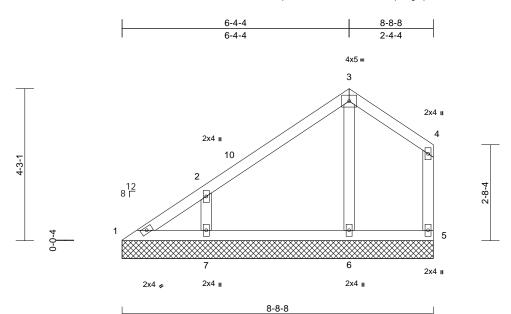
May 1,2023

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

Job	Truss	Truss Type	Qty	Ply	David Weekly-10 Serenity-Roof-B329 B	
23040097-01	V11	Valley	1	1	Job Reference (optional)	158053298

Run: 8,53 S Mar 9 2023 Print: 8,530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 28 14:19:01 ID:_I7EHwldzD88zBqL8B4OKKzMDB?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:32.2

Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI201	CSI TC BC WB 4 Matrix-MP	0.29 0.09 0.07	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: 38 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.3 2x4 SP No.3 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. (size) 1=8-8-8, f Max Horiz 1=126 (Li Max Uplift 1=-24 (LC 7=-117 (L Max Grav 1=78 (LC	cept end verticals. ⁷ applied or 10-0-0 o 5=8-8-8, 6=8-8-8, 7= C 11) C 10), 5=-29 (LC 10) .C 14)	Plate D DOL=1 Cs=1.0 5) Unbala design. 6) Gable r 7) Gable s 8) This tru chord li 8-8-8 9) * This t on the l 3-06-00 chord a 10) Provide	ASCE 7-16; Pr=20.0 OL=1.15); Pf=20.0 p 15); Is=1.0; Rough (0; Ct=1.10 need snow loads hav equires continuous t tuds spaced at 4-0-1 ss has been design ve load nonconcurre russ has been design oottom chord in all a t tall by 2-00-00 wide nd any other member mechanical connec plate capable of wit uplift at joint 1 and	sif (Lum DC Cat B; Fully ve been cor bottom chor 0 oc. ed for a 10. int with any ned for a 10. reas where e will fit betw ers. tion (by oth hstanding 2	DL=1.15 Plate Exp.; Ce=0.9 residered for t d bearing. 0 psf bottom other live loa re load of 20.1 a rectangle veen the bott ers) of truss i 29 lb uplift at j	e 9; his ads. Opsf om to					
FORCES TOP CHORD BOT CHORD	(lb) - Maximum Con Tension 1-2=-121/124, 2-3=- 4-5=-112/90 1-7=-40/44, 6-7=-40	122/82, 3-4=-82/99,	Interna R802.1	ss is designed in actional Residential Co 0.2 and referenced s E(S) Standard	de sections	s R502.11.1 a	and					
WEBS NOTES 1) Unbalance this design	3-6=-176/42, 2-7=-3	been considered fo	r							- A	NITH CA	ROUT

Wind: ASCE 7-16; Vult=130mph (3-second gust) 2) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-6 to 3-0-6, Interior (1) 3-0-6 to 3-4-10, Exterior(2R) 3-4-10 to 6-4-10, Exterior (2E) 6-4-10 to 8-7-2 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

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/TP11** Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



G

minin

May 1,2023

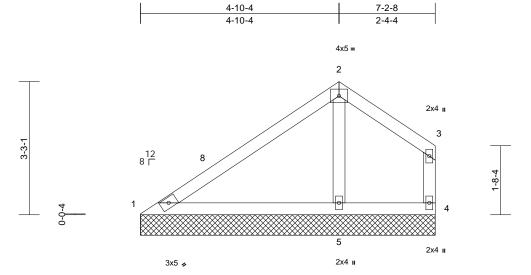
SEAL 036322

WILLING THE

Job	Truss	Truss Type	Qty	Ply	David Weekly-10 Serenity-Roof-B329 B	
23040097-01	V12	Valley	1	1	Job Reference (optional)	158053299

Run: 8,53 S Mar 9 2023 Print: 8,530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 28 14:19:02 ID:Hf3tIJq0JN09JGsh29i26pzMDAu-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



7-2-8

Scale = 1:28.2

Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018	8/TPI2014	CSI TC BC WB Matrix-MP	0.40 0.44 0.05	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.01	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 29 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD WEBS	2x4 SP No.3 2x4 SP No.3 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. (size) 1=7-2-8, Max Horiz 1=90 (LC Max Uplift 1=-20 (LC 5=-24 (LC Max Grav 1=200 (LL 5=379 (L) (lb) - Maximum Com Tension 1-2=-277/98, 2-3=-6	<pre>v applied or 10-0-0 oc 4=7-2-8, 5=7-2-8 11) C 14), 4=-32 (LC 10), C 14), 4=-32 (LC 10), C 20), 4=105 (LC 21), C 20) appression/Maximum 55/83, 3-4=-111/86</pre>	7) 8) 9) 10	Plate DOL=1 DOL=1.15); Cs=1.00; Ctt Unbalanced design. Gable requir Gable studs This truss ha chord live loa * This truss ha chord live loa * This truss ha chord and ar) Provide mec bearing plate 4, 20 lb upliff) This truss is International	snow loads have es continuous bot spaced at 4-0-0 o is been designed ad nonconcurrent has been designed in chord in all area by 2-00-00 wide w by 2-00-00 wide w by other members hanical connection e capable of withst t at joint 1 and 24 designed in accor Residential Code nd referenced star	(Lum DC t B; Fully been cor tom chor c. for a 10.0 with any d for a liv s where ill fit betv n (by oth canding 3 bb uplift a dance w sections	DL=1.15 Plate Exp.; Ce=0.9 nsidered for the rd bearing. 0 psf bottom other live loa re load of 20.0 a rectangle veen the botto ers) of truss t 32 lb uplift at j it joint 5. ith the 2018 \$ R502.11.1 a	ds. Dpsf om o oint					
NOTES	ad reaf live laade beve	heen ennidered for										minim	1111

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) 2) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-6 to 3-0-6, Exterior(2R) 3-0-6 to 4-10-10, Exterior(2E) 4-10-10 to 7-1-2 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss 3) only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.



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/TP11** 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	David Weekly-10 Serenity-Roof-B329 B	
23040097-01	V13	Valley	1	1	Job Reference (optional)	158053300

3-4-4

3-4-4

Carter Components (Sanford), Sanford, NC - 27332,

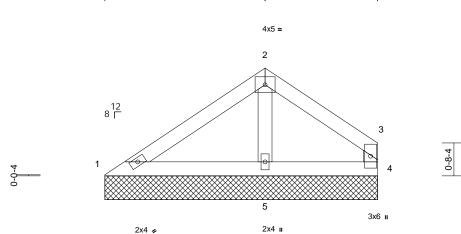
2-3-1

Run: 8,53 S Mar 9 2023 Print: 8,530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 28 14:19:02 ID:a?_XDivPgWv9fLu1y7KhuHzMDAn-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

5-8-8

2-4-4

Page: 1



5-8-8

Scale = 1:24.1

Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC20	18/TPI2014	CSI TC BC WB Matrix-MP	0.17 0.23 0.03	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 21 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	5-8-8 oc purlins, ex Rigid ceiling directly bracing. (size) 1=5-8-8, Max Horiz 1=54 (LC Max Uplift 1=-18 (LC 5=-10 (LC Max Grav 1=164 (L	/ applied or 10-0-0 or 4=5-8-8, 5=5-8-8 : 11) C 14), 4=-31 (LC 15), C 14) C 20), 4=112 (LC 21	7 8 9	 Plate DOL=1 DOL=1.15); Cs=1.00; Ct: Unbalanced design. Gable requir. Gable studs This truss ha chord live loa * This truss ha chord live loa * This truss the on the bottor 3-06-00 tall b chord and ar Provide mec 	7-16; Pr=20.0 p .15); Pf=20.0 ps is=1.0; Rough C =1.10 snow loads have es continuous bi spaced at 4-0-0 is been designe ad nonconcurrer as been design n chord in all are by 2-00-00 wide yo other membe hanical connecti c agable of with	of (Lum DC cat B; Fully e been cor octom chor oc. d for a 10.0 th with any ed for a liv eas where will fit betw rs. ion (by oth	DL=1.15 Plate Exp.; Ce=0.1 Isidered for t d bearing. 0 psf bottom other live loa e load of 20.1 a rectangle veen the bott ers) of truss	e 9; his dds. 0psf om to					
this design	Tension 1-2=-215/96, 2-3=-4 1-5=-86/173, 4-5=-8 2-5=-147/36 ed roof live loads have	npression/Maximum 17/66, 3-4=-104/82 3/9 9 been considered for	L	1) This truss is International	at joint 1 and 10 designed in acc Residential Coo nd referenced st Standard	ordance w de sections	ith the 2018 R502.11.1 a	and			and the second sec	NITH CA	ROLA

- Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-6 to 3-0-6, Exterior(2R) 3-0-6 to 3-4-10, Exterior(2E) 3-4-10 to 5-7-2 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss 3) only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

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/TP11** Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



SEAL

036322

G

minin May 1,2023 Wanninnin and

VULLINGUN

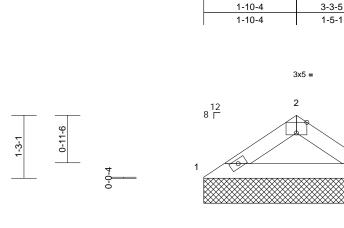
Job	Truss	Truss Type	Qty	Ply	David Weekly-10 Serenity-Roof-B329 B	
23040097-01	V14	Valley	1	1	Job Reference (optional)	158053301

Run: 8.53 S Mar 9 2023 Print: 8.530 S Mar 9 2023 MiTek Industries, Inc. Fri Apr 28 14:19:02 ID:tLvAh6?o0gnA?QxNt5yKgmzMDAg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

3-8-8

3

Page: 1



2x4 💊 2x4 🥔

3-8-8

Scale = 1:23

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

	(, ,)) [2:0 2 0,20g0]												-
Loading TCLL (roof) Snow (Pf) TCDL	(psf) 20.0 20.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES		CSI TC BC WB	0.11 0.10 0.00	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 244/190
BCLL BCDL	0.0* 10.0	Code	IRC2018/T	PI2014	Matrix-MP							Weight: 11 lb	FT = 20%
	10.0											Weight. This	11 - 2070
LUMBER TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.2		8) T	This truss ha	spaced at 4-0-0 c is been designed ad nonconcurrent	for a 10.		ds					
BRACING	274 01 100.2		9) *	* This truss h	nas been designe	d for a liv	e load of 20.0						
TOP CHORD	Structural wood she 3-8-8 oc purlins.	athing directly applie	30.01	3-06-00 tall b	n chord in all area by 2-00-00 wide w	vill fit betw		om					
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 o	10) F	Provide mec	y other members hanical connectio	on (by oth							
	()				capable of withs plift at joint 3.	standing 1	4 lb uplift at j	oint					
	Max Horiz 1=25 (LC Max Uplift 1=-14 (LC		11) 1	This truss is	designed in acco								
	Max Grav 1=170 (LC		, I		Residential Code nd referenced sta			and					
FORCES	(lb) - Maximum Com Tension	pression/Maximum		D CASE(S)			NSI/1F11.						
TOP CHORD	1-2=-244/91, 2-3=-2	44/91											
BOT CHORD	1-3=-63/194												
NOTES	ed roof live loads have	been considered fo	r										
this design													
Vasd=103 Cat. II; Exp zone and 0 exposed ; members a	CE 7-16; Vult=130mph mph; TCDL=6.0psf; B p B; Enclosed; MWFR C-C Exterior(2E) zone end vertical left and rig and forces & MWFRS OL=1.60 plate grip DC	CDL=6.0psf; h=25ft; S (envelope) exterio ; cantilever left and ght exposed;C-C for for reactions shown	r right								25	OR FESS	ROUTING
only. For see Stand	signed for wind loads in studs exposed to wind ard Industry Gable En qualified building desi	(normal to the face d Details as applica), ple,									SEA 0363	• –
4) TCLL: ASO Plate DOL	CE 7-16; Pr=20.0 psf (=1.15); Pf=20.0 psf (L ;); Is=1.0; Rough Cat E	roof LL: Lum DOL= um DOL=1.15 Plate	1.15									S. ENGIN	EERA
	ed snow loads have be	een considered for th	nis								11	A. C	ILBE

- 5) Unbalanced snow loads have been considered for this design.
- 6) Gable requires continuous bottom chord bearing.

818 Soundside Road Edenton, NC 27932

May 1,2023

munn

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

