

Trenco 818 Soundside Rd Edenton, NC 27932

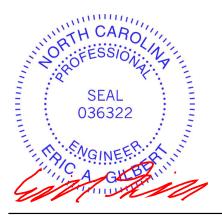
Re: 35115-35115A 52 SERENITY - ROOF

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by 84 Components - #2383.

Pages or sheets covered by this seal: I56288086 thru I56288123

My license renewal date for the state of North Carolina is December 31, 2023.

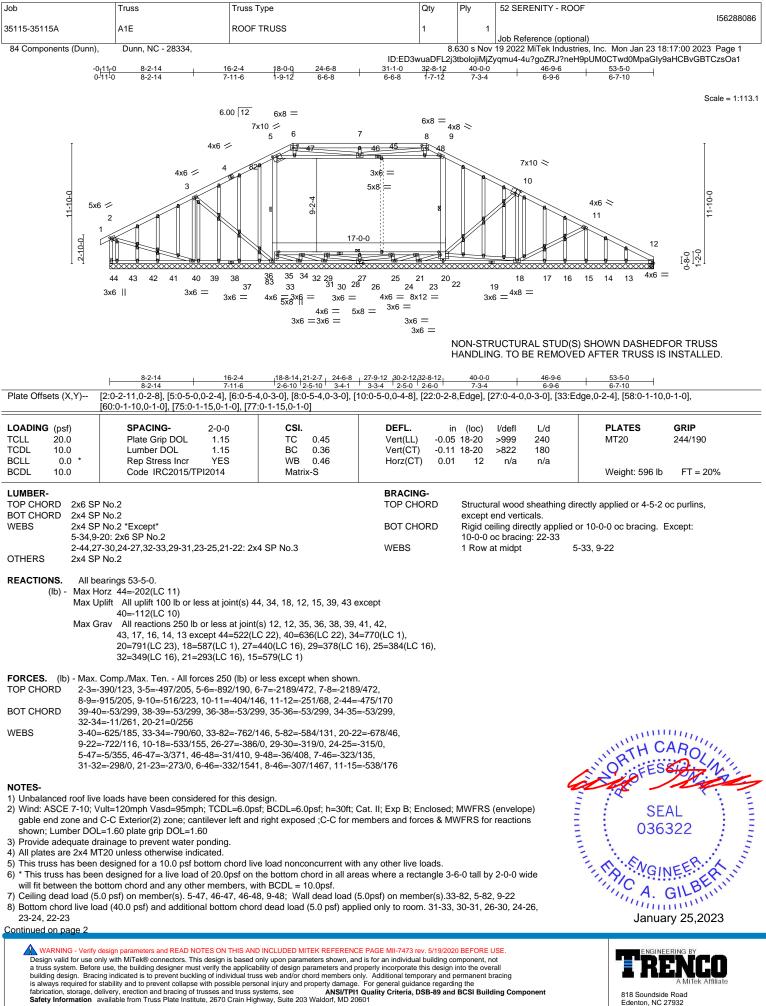
North Carolina COA: C-0844



January 25,2023

Gilbert, Eric

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

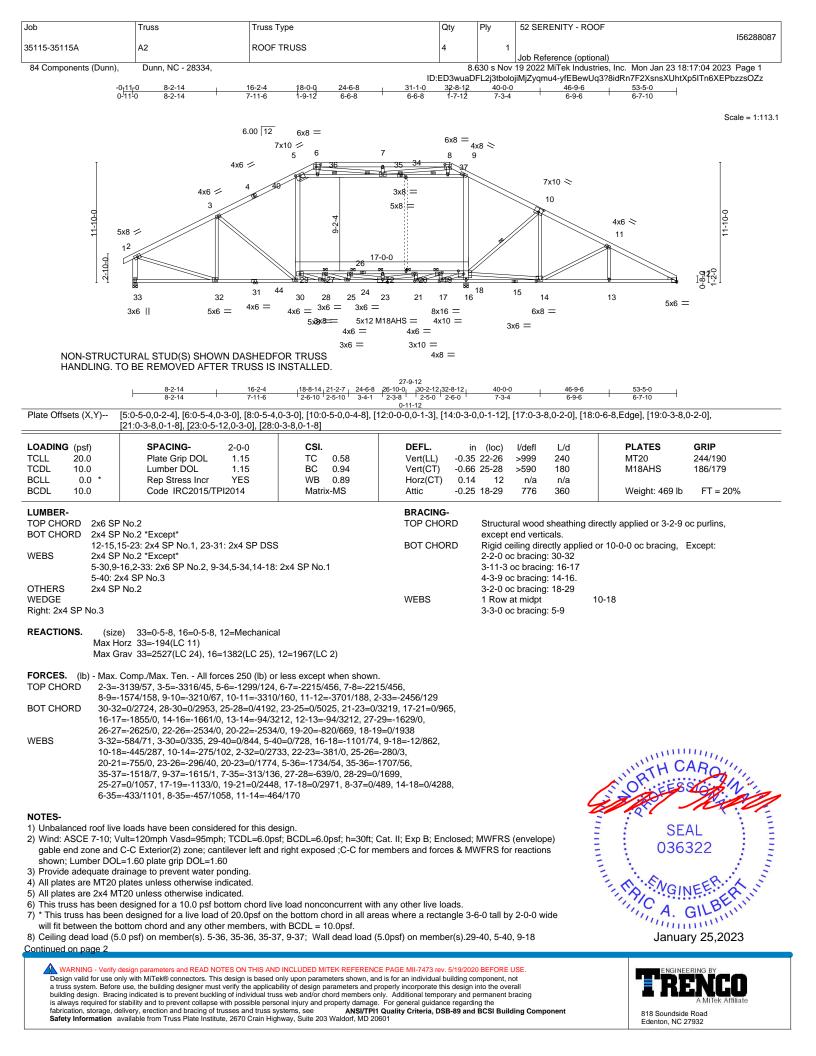


Edenton, NC 27932

Job	Truss	Truss Type	russ Type Qty Ply 52 SERENITY - ROOF					
					156288086			
35115-35115A	A1E	ROOF TRUSS	1					
				Job Reference (optional)				
84 Components (Dunn),	Dunn, NC - 28334,	8.630 s Nov 19 2022 MiTek Industries, Inc. Mon Jan 23 18:17:01 2023 Page 2						
		ID:ED3wuaDFL2j3tbolojiMjZyqmu4-Y4Z30vSym4m7mz3Yaw_99Dv_KfeBu1XLQZ0l0ezsOa0						

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 44, 34, 18, 12, 15, 39, 43 except (jt=lb) 40=112.
10) Attic room checked for L/360 deflection.



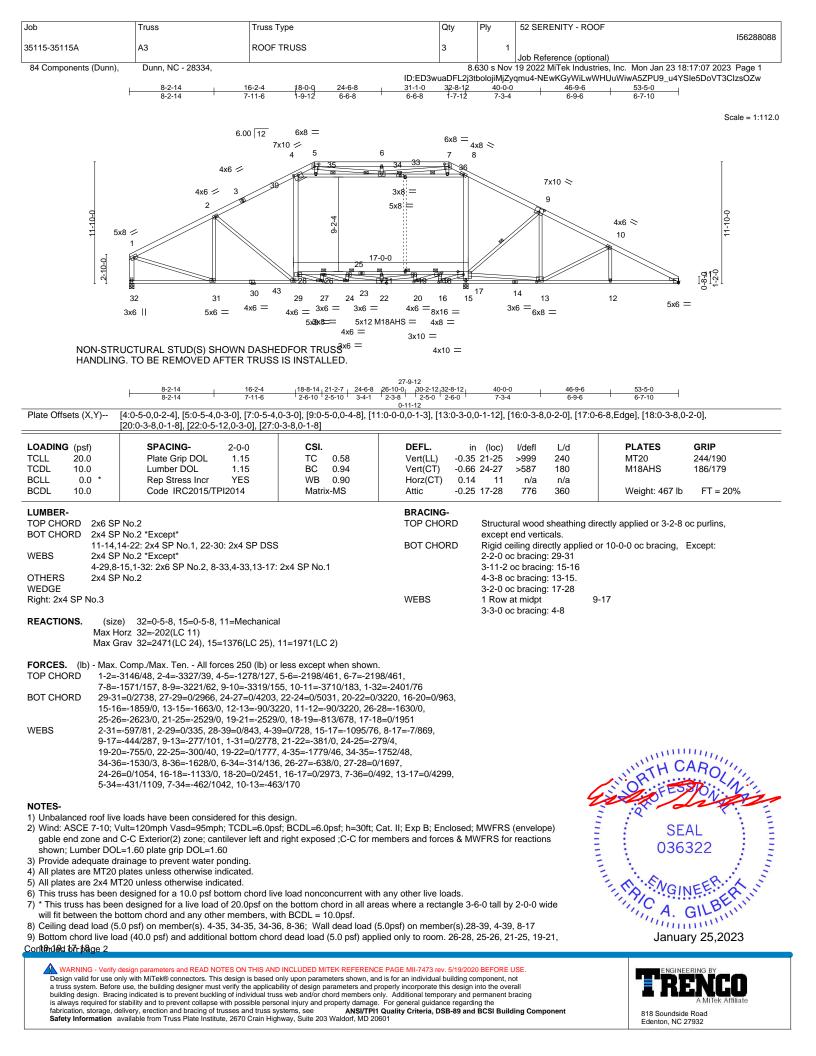


Job	Truss	Truss Type						
					156288087			
35115-35115A	A2	ROOF TRUSS	Job Reference (optional)					
	Dura NO 00004							
84 Components (Dunn),	Dunn, NC - 28334,	8.630 s Nov 19 2022 MiTek Industries, Inc. Mon Jan 23 18:17:04 2023 Page 2						
		ID:ED3wuaDFL2j3tbolojiMjZyqmu4-yfEBewUq3?8idRn7F2XsnsXUhtXp5ITn6XEPbzzsOZz						

9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 27-29, 26-27, 22-26, 20-22, 19-20, 18-19

10) Refer to girder(s) for truss to truss connections.
 11) Attic room checked for L/360 deflection.



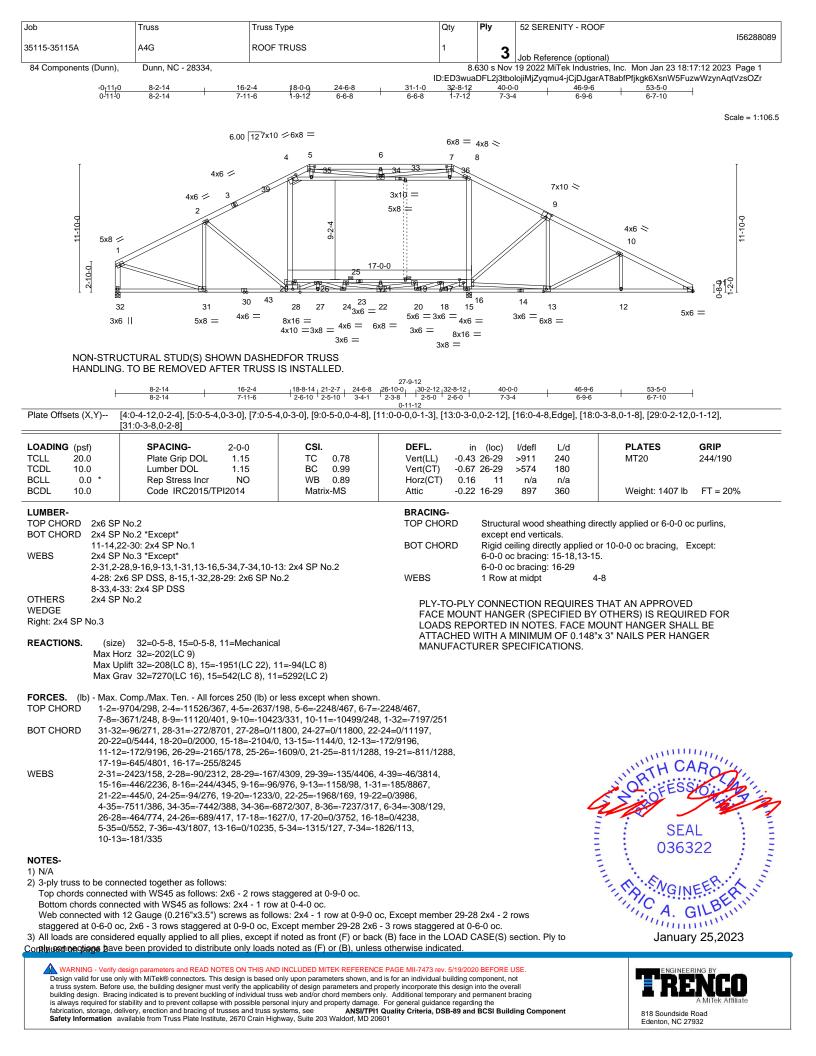


Job	Truss	Truss Type	Qty Ply 52 SERENITY - ROOF						
	4.2	ROOF TRUSS	2	1					
35115-35115A	A3	ROOF TRUSS	3	1	Job Reference (optional)				
84 Components (Dunn),	Dunn, NC - 28334,	8.630 s Nov 19 2022 MiTek Industries, Inc. Mon Jan 23 18:17:07 2023 Page 2							
		ID:ED3w	ID:ED3wuaDFL2j3tbolojiMjZyqmu4-NEwKGyWiLwWHUuWiwA5ZPU9_u4YSIe5DoVT3ClzsOZw						

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

11) Attic room checked for L/360 deflection.





Job	Truss	Truss Type	Qty	Ply	52 SERENITY - ROOF
					156288089
35115-35115A	A4G	ROOF TRUSS	1	3	Job Reference (optional)
84 Components (Dunn),	Dunn, NC - 28334,		8	630 s Nov	19 2022 MiTek Industries, Inc. Mon Jan 23 18:17:13 2023 Page 2

ID:ED3wuaDFL2j3tbolojiMjZyqmu4-BOHbX?bTxmHRCp_rHRCzelPyGVa7iNm6ARwNQxzsOZq

NOTES-

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

5) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60

6) Provide adequate drainage to prevent water ponding.

7) All plates are 2x4 MT20 unless otherwise indicated.

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

9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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). 4-35, 34-35, 34-36, 8-36; Wall dead load (5.0 psf) on member(s).29-39, 4-39, 8-16

11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 26-29, 25-26, 21-25, 19-21, 17-19, 16-17

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

13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 32=208, 15=1951.

14) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.

15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 5494 lb down and 367 lb up at 16-5-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

16) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-5=-60, 5-7=-60, 7-11=-60, 32-40=-20, 16-29=-30, 4-8=-10

Drag: 4-29=-10, 8-16=-10

Concentrated Loads (lb)

Vert: 28=-3291(F)



Job	Truss	Truss Type	Qty	Ply	52 SERENITY - ROOF			
35115-35115A	A5G	COMMON GIRDER	1			156288090		
84 Components (Dunn),			8	630 s Nov	Job Reference (optional) 19 2022 MiTek Industries, Inc. Mon	Jan 23 18:17:15 2023 Page 1		
et componente (Dunin),	-Q <u>-11₁0 8-3-6</u> 0-11-0 8-3-6	<u> </u>		2j3tbolojiN	AjZyqmu4-8nPLyhckTOX8S77EOSEF 26-10-10 31-1-0 32-11-8 4-4-2 4-2-6 1-10-8	RjAUOvlOqAlxPelPUUqzsOZo		
	0-11-0 8-3-6	7-11-14	1-8-12 4-8-8			Scale = 1:77.2		
		6.00 12	6x10 =	2x4	4x6 = 6x8 =	Scale = 1.11.2		
	I	:	3x6 6 5	7	8 9 1	o I		
		4x6 = 3x6 = 4 3 4x6 = 3 20^{23}	5 1 1 19 24 14 15 14 15 15 14 15 15 15 15 15 15 15 15 15 15					
	2x4	4x6 = 4x6 =	8x16 = 4x6	b = 2x4 = 5x8	= 2x4 4x10 = 2x4 2x4 2x4 =	4		
Plate Offsets (X,Y)	8-3-6 8-3-6 [19:0-8-0,0-4-12]	<u> </u>	<u>22-6-8</u> 6-3-4		26-7-8 31-1-0 32-11-8 4-1-0 4-5-8 1-10-8	1		
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0 Plate Grip DOL 1. Lumber DOL 1.	5 TC 0.45 5 BC 0.46 O WB 0.72	Vert(LL) -0.08	(loc) 19-21 19-21 19-11	l/defl L/d PLAT >999 240 MT20 >999 180 n/a n/a Weigh			
LUMBER- TOP CHORD 2x6 SP No.2 BRACING- TOP CHORD BOT CHORD 2x6 SP No.2 *Except* 14-16: 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. WEBS 2x4 SP No.2 *Except* 5-19: 2x10 SP DSS, 2-22: 2x6 SP No.2, 8-12: 2x4 SP No.1 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 6-0-0 oc bracing: 14-16								
Max H Max U	e) 22=0-5-8, 11=0-5-8 Horz 22=293(LC 8) Jplift 22=-228(LC 8), 11=-186(L Grav 22=3073(LC 1), 11=3047(1							
TOP CHORD 2-3=- 8-9=- BOT CHORD 21-22 WEBS 3-21=	-3896/307, 3-5=-4160/377, 5-6= -494/31, 9-10=-587/33, 2-22=-2 2=-320/158, 19-21=-470/3390, =-816/154, 3-19=-116/490, 6-19	50 (lb) or less except when shown. -4032/463, 6-7=-2345/200, 7-8=-2 988/268, 10-11=-3040/133 17-19=-312/3092, 13-17=-113/145i =-530/3440, 6-17=-2015/347, 2-21 3-14=-2851/293, 12-14=-2893/267,	345/200, 5, 12-13=-113/1455 =-157/3380,					
 Top chords connect Bottom chords conn Webs connected as 2) All loads are conside ply connections hav 3) Unbalanced roof live 4) Wind: ASCE 7-10; V gable end zone; can 5) Provide adequate di 6) This truss has been 7) * This truss has been 7) * This truss has been 7) * This truss has been 8) Provide mechanical 22=228, 11=186. 9) Hanger(s) or other constrained LOAD CASE(S) Stand 	hected as follows: 2x6 - 2 rows follows: 2x4 - 1 row at 0-9-0 oc ered equally applied to all plies, e been provided to distribute or e loads have been considered f /ult=120mph Vasd=95mph; TCI tillever left and right exposed; 1 rainage to prevent water pondir designed for a 10.0 psf bottom in designed for a live load of 20 bottom chord and any other mer connection (by others) of truss connection device(s) shall be pr hord. The design/selection of st	gered at 0-9-0 oc, 2x4 - 1 row at 0 taggered at 0-9-0 oc, 2x4 - 1 row at , 2x10 - 2 rows staggered at 0-9-0 except if noted as front (F) or back ly loads noted as (F) or (B), unless or this design. DL=6.0psf; BCDL=6.0psf; h=30ft; C .umber DOL=1.60 plate grip DOL= g. chord live load nonconcurrent with 0psf on the bottom chord in all are	at 0-9-0 oc. oc. (B) face in the LOAD C s otherwise indicated. Cat. II; Exp B; Enclosed; 1.60 any other live loads. as where a rectangle 3- nding 100 lb uplift at joir trated load(s) 3291 lb do	MWFRS 6-0 tall by nt(s) exce	(envelope) 2-0-0 wide pt (jt=lb) 367 lb up at	SEAL 036322 A. GILPERTINI January 25,2023		
Continued on page 2		N THIS AND INCLUDED MITEK REFERENC						

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

818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	52 SERENITY - ROOF				
					156288090		
35115-35115A	A5G	COMMON GIRDER	1	2			
				~	Job Reference (optional)		
84 Components (Dunn),	Dunn, NC - 28334,	8.630 s Nov 19 2022 MiTek Industries, Inc. Mon Jan 23 18:17:16 2023 Page 2					
		ID:ED3wuaDFL2j3tbolojiMjZyqmu4-czzj91dMEhf?3HiQyZlgGN1Zfik3vlAYsP820GzsOZn					

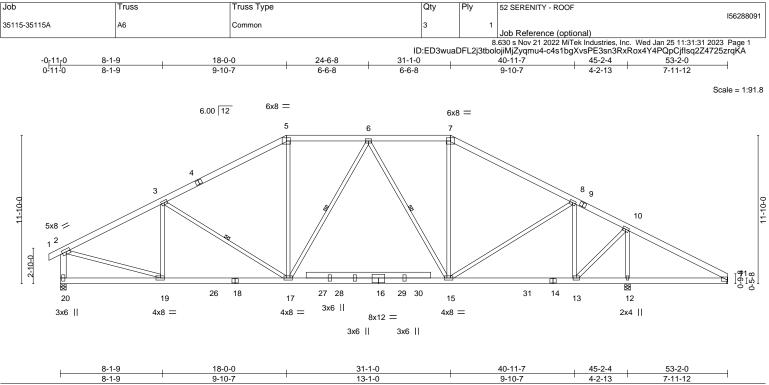
LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-60, 2-6=-60, 6-9=-60, 9-10=-60, 11-22=-20, 14-16=-20 Concentrated Loads (lb)

Vert: 19=-3291(F)



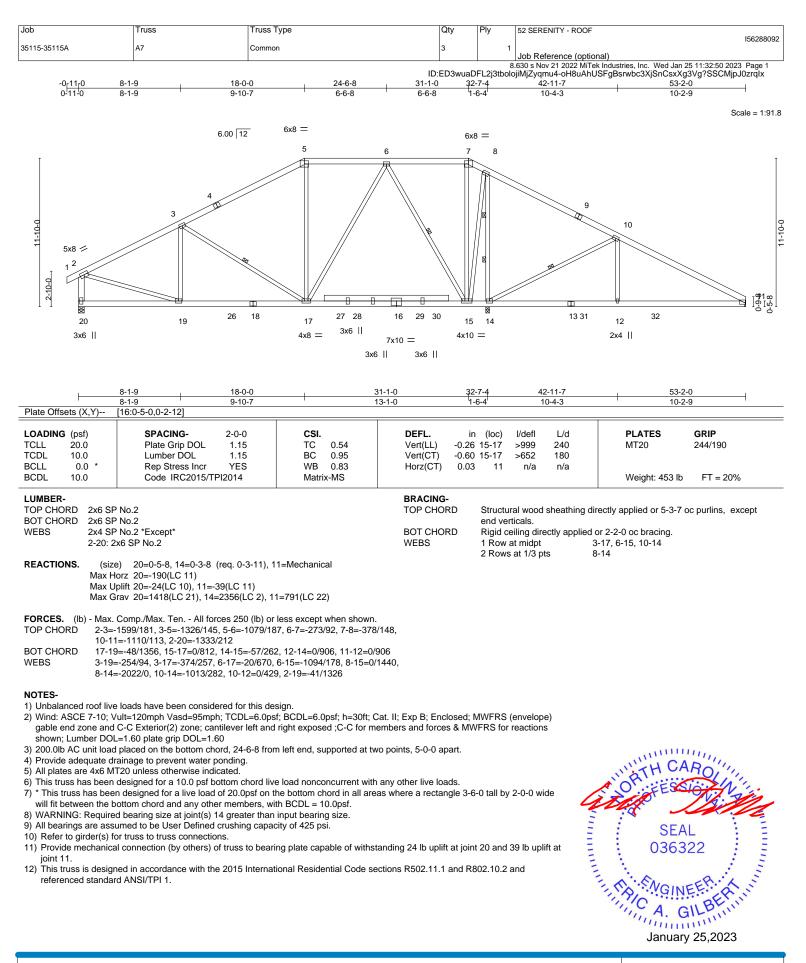


	8-1-9 ' 9-10-7	13	-1-0	9-10-7	4-2-13 7-11-12				
Plate Offsets (X,Y)	[16:0-6-0,0-3-8], [19:0-3-8,0-2-0]								
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.68 BC 0.46 WB 0.77 Matrix-MS	Vert(LL) -0.23	n (loc) I/defl L/d 15-17 >999 240 15-17 >999 180 12 n/a n/a	PLATES GRIP MT20 244/190 Weight: 438 lb FT = 20%				
LUMBER- TOP CHORD 2x6 SP No.2 BRACING- TOP CHORD TOP CHORD Structural wood sheathing directly applied or 3-7-7 oc purlins, except end verticals. 21-22: 2x6 SP No.2 BOT CHORD BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. WEBS 2x4 SP No.2 * Except* 2-20: 2x6 SP No.2 WEBS 1 Row at midpt 3-17, 6-17, 6-15									
REACTIONS. (size) 11=Mechanical, 12=0-5-8, 20=0-5-8 Max Horz 20=-190(LC 11) Max Uplift 11=-69(LC 11) Max Grav 11=267(LC 22), 12=2336(LC 2), 20=1945(LC 1) FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2329/265, 3-5=-2271/248, 5-6=-1930/280, 6-7=-1737/269, 7-8=-2054/234, 8-10=-1282/232, 2-20=-1852/272 POT CHORD 12-19=-77/2014, 15-17=0/(1921, 13-15=-28/1111)									
BOT CHORD 17-19=-77/2014, 15-17=0/1921, 13-15=-28/1111 WEBS 3-19=-456/114, 3-17=-185/264, 5-17=0/591, 6-15=-544/125, 7-15=0/518, 8-15=0/803, 8-13=-1138/101, 10-13=-71/1703, 10-12=-2095/236, 2-19=-116/1995									
 Wind: ASCE 7-10; V gable end zone and shown; Lumber DOI 200.0lb AC unit load Provide adequate d 	e loads have been considered for this de /ult=120mph Vasd=95mph; TCDL=6.0ps C-C Exterior(2) zone; cantilever left and =1.60 plate grip DOL=1.60 d placed on the bottom chord, 24-6-8 fror rainage to prevent water ponding. T20 unless otherwise indicated.	f; BCDL=6.0psf; h=30ft; Ca right exposed ;C-C for mer	mbers and forces & MV		TH CARO				

- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) All bearings are assumed to be User Defined crushing capacity of 425 psi.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 69 lb uplift at joint 11.
- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

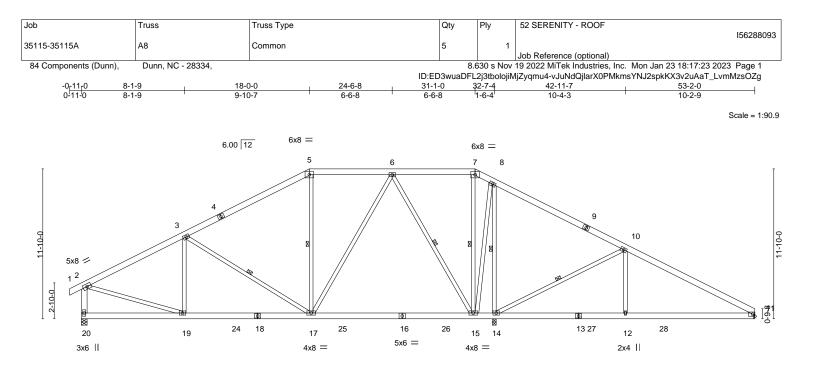
SEAL 036322 January 25,2023

> ENGINEERING BY ERENCO AMITER Attiliate 818 Soundside Road Edenton, NC 27932



TRENCO A MITEK Affiliate 818 Soundside Road

Edenton, NC 27932



		8-1-9 8-1-9	18-0-0 9-10-7			<u>31-1-0</u> 13-1-0	32-7 1-6			l2-11-7 10-4-3		-2-0 -2-9
LOADING (psf)	SPACINO	G- 2-0-0	CSI.		DEFL.	in ((loc)	l/defl	L/d	PLATES	GRIP
TCLL 2	20.0	Plate Grip	DOL 1.15	тс	0.55	Vert(LL)	-0.27 15	5-17	>999	240	MT20	244/190
TCDL 1	10.0	Lumber D	OCL 1.15	BC	0.71	Vert(CT)	-0.44 15	5-17	>875	180		
BCLL	0.0 *	Rep Stree	ss Incr YES	WB	0.89	Horz(CT)	0.03	11	n/a	n/a		
BCDL 1	10.0	Code IR	C2015/TPI2014	Matrix	k-MS						Weight: 430 lb	FT = 20%
LUMBER- TOP CHORD 2x6 SP No.2 BOT CHORD 2x6 SP No.2 WEBS 2x4 SP No.2 *Except* 2-20: 2x6 SP No.2			BRACING- TOP CHOF BOT CHOF	RD S e: RD R	xcept e ligid cei	end vertic	als. ctly applied o	ectly applied or 5-5-3 or 10-0-0 oc bracing,	•			
REACTIONS			4=0-3-8 (req. 0-3-9), 1	1=Mechanica	al	WEBS			t midpt		-17, 5-17, 6-15, 7-15,	8-14, 10-14
	Max H	lorz 20=-190(LC	11)									
	Max L	Jplift 20=-89(LC	10), 14=-43(LC 11), 11=	-64(LC 11)								
	Max C	2ray 20-1352/1 ((21) 14-2255(1 C 2) 1	1-766(I C 22	2)							

Max Grav 20=1352(LC 21), 14=2255(LC 2), 11=766(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1517/263, 3-5=-1205/275, 5-6=-970/304, 7-8=-282/251, 10-11=-1062/164,

2-20=-1275/270

BOT CHORD 17-19=-121/1289, 15-17=-42/717, 12-14=-34/864, 11-12=-34/864

- WEBS 3-17=-426/205, 6-17=-49/643, 6-15=-1063/209, 8-15=0/1217, 8-14=-1771/236,
 - 10-14=-1017/278, 10-12=0/431, 2-19=-111/1261

NOTES-

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

2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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

3) Provide adequate drainage to prevent water ponding.

4) All plates are 4x6 MT20 unless otherwise indicated.

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

* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 6) will fit between the bottom chord and any other members, with BCDL = 10.0psf.

7) WARNING: Required bearing size at joint(s) 14 greater than input bearing size.

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

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 14, 11.





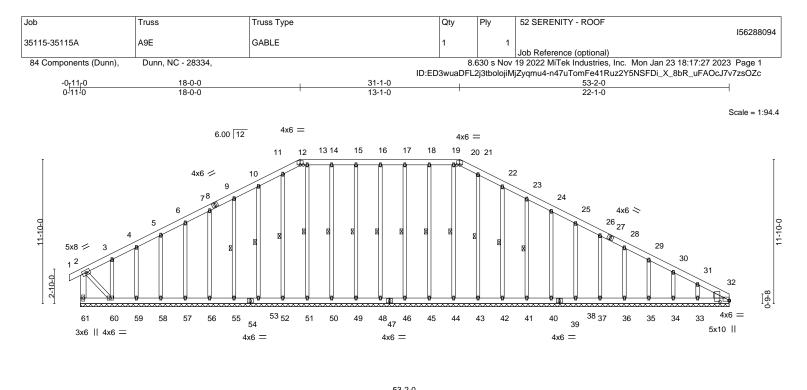
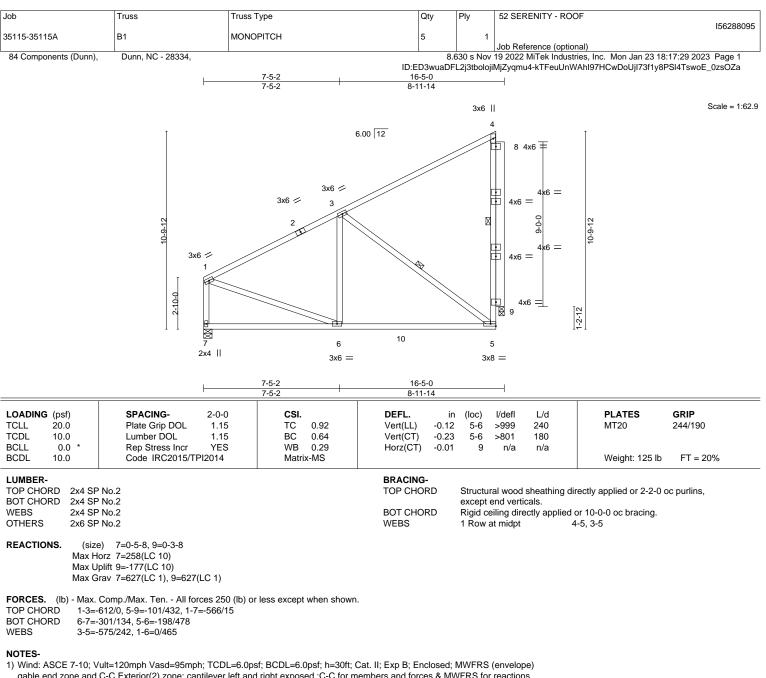


Plate Offsets (X,Y) [32:0-0-0.0-0-15], [32:0-1-6.0-9-2] LOADING (pst) TCLL SPACING- 20.0 Plate Grip DOL 2:0-0- 1:15 Lumber DOL CSL 1:15 BC DEFL 0:00 in (loc) l/defl L/d NT20 PLATES GRIP MT20 BCLL 0:0 Rep Stress Incr YES WB 0.12 Vert(L1) -0.00 1 n/r 90 BCDL 10:0 Code IRC2015/TPI2014 Matrix-S BRACING- TOP CHORD 2:46/190 Weight: 552 lb FT = 20% LUMBER- TOP CHORD 2:46 SP No.2 BRACING- TOP CHORD Structural wood sheathing directly applied or 6:0-0 oc purlins, except end verticals. Except end verticals. 2:0: 2:45 SP No.2 Except * BOT CHORD Rigid ceiling directly applied or 10:0-0 oc braing. 1:7:46, 1:6:48, 1:5:49, 1:4:50, 1:3:51, 1:1:52 0THERS 2:46 SP No.2 Except * BOT CHORD Rigid ceiling directly applied or 1:0:0 oc b co braing. 1:0:3:9:55, 1:8:45, 1:9:44, 2:1:43, 2:2:42, 2: 0THERS 2:46 SP No.2 Except * BOT CHORD Rigid ceiling directly applied or 1:0:0 oc b co braing. 1:0:53, 9:55, 1:8:45, 1:9:44, 2:1:43, 2:2:42, 2: 0THERS 2:4		53-2-0								
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCLL 0.0 * BCDL 10.0 Code IRC2015/TPI2014 SPACING- TC 0.06 BC 0.03 Wer(LL) -0.00 Hotz(CT) -0.00 Wer(LL) -0.00 Wer(LL) -0.00 Hotz(CT) -0.00 Wer(LL) -0.00 Hotz(CT)				53-2-0		· · · · · ·				
TCLL 20.0 Plate Grip DOL 1.15 TC 0.06 Vert(LL) -0.00 1 n/r 120 TCDL 0.0 Lumber DOL 1.15 BC 0.03 Vert(CT) -0.00 1 n/r 120 BCLL 0.0 * Rep Stress Incr YES WB 0.12 Wett(LT) -0.00 1 n/r 120 BCLL 0.0 * Code IRC2015/TPI2014 Matrix-S BRACING- TOP CHORD 2x6 SP No.2 Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Structural wood sheathing directly applied or 10-0-0 oc bracing. WEBS 2x6 SP No.2 BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing. 10-53, 9-55, 18-45, 13-44, 21-43, 22-42, 23-41 WEDGE BOT CHORD 2x4 SP No.3 WEBS 10-53, 9-55, 18-45, 19-44, 21-43, 22-42, 23-41 WEDGE Imate Noz 61=-200(LC 11) Wax Horz 61=-200(LC 110) Nax A ray A lineations 250 to prises at ploint(s) 61, 46, 48, 49, 50, 51, 52, 53, 55, 56, 55, 56, 57, 58, 59, 60, 45, 43, 43, 42, 41, 40, 38, 37, 36, 35, 34, 32, 33 except 61=1250(LC 10) Nax Gray A lineations 250 to prise	Plate Offsets (X,Y)	[32:0-0-0,0-0-15], [32:0-1-6,0-9-2]	1							
TOP CHORD 2x6 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD 2x6 SP No.2 "Except" BOT CHORD Rigid celling directly applied or 10-0-0 oc bracing. YEBS 2x6 SP No.2 "Except" BOT CHORD Rigid celling directly applied or 10-0-0 oc bracing. OTHERS 2x4 SP No.2 "Except" BOT CHORD Net an indpt 17-46, 16-48, 15-49, 14-50, 13-51, 11-52 OTHERS 2x4 SP No.2 "Except" BOT CHORD Net an indpt 17-46, 16-48, 15-49, 14-50, 13-51, 11-52 OTHERS 2x4 SP No.2 "Except" 10-53, 9-55, 18-45, 19-44, 21-43, 22-42, 23-41 23-41 WEDGE Right: 2x6 SP No.2 REACTIONS. All bearings 53-2-0. (b) Max Uplit Mu uplit tool to rises at joint(s) 61, 46, 48, 49, 50, 51, 52, 53, 55, 56, 57, 58, 59, 60, 45, 42, 41, 40, 38, 37, 36, 35, 34, 32, 33 except 61=200(LC 10) Max Grav All reactions 250 (b) or less at point(s) 46, 48, 49, 50, 51, 52, 53, 55, 56, 57, 58, 59, 60, 13-14=-95/260, 15-16=-95/260, 1	TCLL 20.0 TCDL 10.0 BCLL 0.0 *	Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	TC 0.06 BC 0.03 WB 0.12	Vert(LL) -0.00 Vert(CT) -0.00	1 n/r 120 1 n/r 90	MT20 244/190				
 FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 11-12=-106/266, 12-13=-95/260, 13-14=-95/260, 15-16=-95/260, 16-17=-95/260, 17-18=-95/260, 18-19=-95/260, 19-20=-95/260, 20-21=-106/267 NOTES- Unbalanced roof live loads have been considered for this design. Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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 Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry 	TOP CHORD 2x6 SI BOT CHORD 2x6 SI WEBS 2x6 SI 2-60: : OTHERS 2x4 SI 5-58,4 WEDGE Right: 2x6 SP No.2 REACTIONS. All b (lb) - Max H Max L	P No.2 P No.2 *Except* 2x4 SP No.3 P No.2 *Except* -59,3-60,26-37,28-36,29-35,30-34,31-33 earings 53-2-0. forz 61=-200(LC 11) Jplift All uplift 100 lb or less at joint(s) 6 57, 58, 59, 45, 42, 41, 40, 38, 37, 31 Grav All reactions 250 lb or less at joint 56, 57, 58, 59, 60, 45, 44, 43, 42, 43	1, 46, 48, 49, 50, 52, 53, 16, 35, 34, 33 except 60=- (s) 46, 48, 49, 50, 51, 52,	TOP CHORD BOT CHORD WEBS 55, 56, 190(LC 10) 53, 55,	except end verticals. Rigid ceiling directly ap	pplied or 10-0-0 oc bracing. 17-46, 16-48, 15-49, 14-50, 13-51, 11-52, 10-53, 9-55, 18-45, 19-44, 21-43, 22-42,				
 5) All plates are 2x4 MT20 unless otherwise indicated. 6) Gable requires continuous bottom chord bearing. 7) Gable studs spaced at 2-0-0 oc. 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members. 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 61, 46, 48, 49, 50, 52, 53, 55, 56, 57, 58, 59, 45, 42, 41, 40, 38, 37, 36, 35, 34, 33 except (jt=lb) 60=190. 	TOP CHORD 11-1 16-1 NOTES- 1) Unbalanced roof liv 2) Wind: ASCE 7-10; gable end zone and shown; Lumber DO 3) Truss designed for Gable End Details a 4) Provide adequate d 5) All plates are 2x4 M 6) Gable requires com 7) Gable studs space 8) This truss has beer 9) * This truss has beer will fit between the 10) Provide mechanic	2=-106/266, 12-13=-95/260, 13-14=-95/ 7=-95/260, 17-18=-95/260, 18-19=-95/2 e loads have been considered for this de Vult=120mph Vasd=95mph; TCDL=6.0p I C-C Exterior(2) zone; cantilever left and L=1.60 plate grip DOL=1.60 wind loads in the plane of the truss only. as applicable, or consult qualified buildin Irainage to prevent water ponding. IT20 unless otherwise indicated. tinuous bottom chord bearing. 1 at 20-0 oc. n designed for a 10.0 psf bottom chord live an designed for a live load of 20.0psf on bottom chord and any other members. al connection (by others) of truss to beal	260, 14-15=-95/260, 15-1 60, 19-20=-95/260, 20-21 esign. sf; BCDL=6.0psf; h=30ft; d right exposed ;C-C for m For studs exposed to wi g designer as per ANSI/T ve load nonconcurrent with the bottom chord in all are	6=-95/260, =-106/267 Cat. II; Exp B; Enclosed; nembers and forces & MV nd (normal to the face), s PI 1. h any other live loads. eas where a rectangle 3- standing 100 lb uplift at jc	WFRS for reactions	SEAL 036322				

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gable end zone and C-C Exterior(2) 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

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

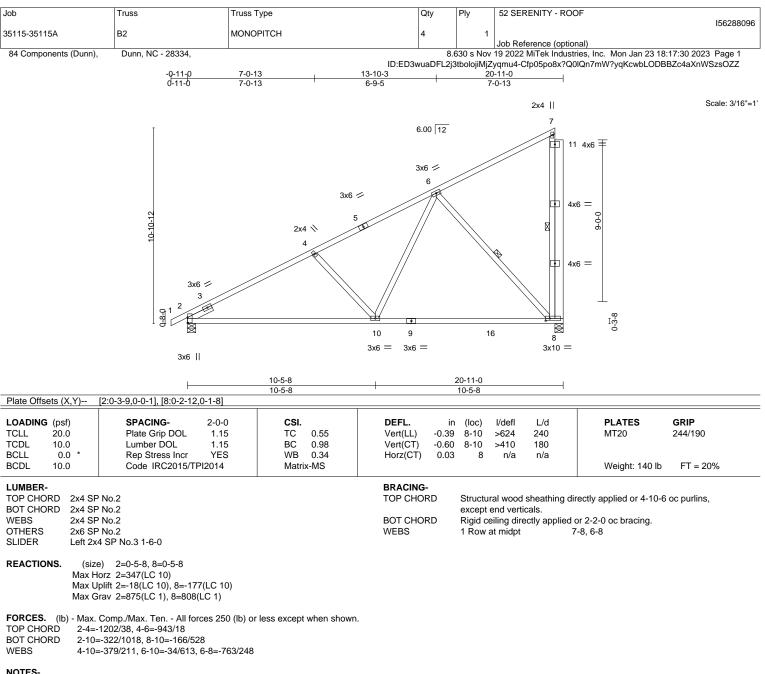
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

4) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=177.







1) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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

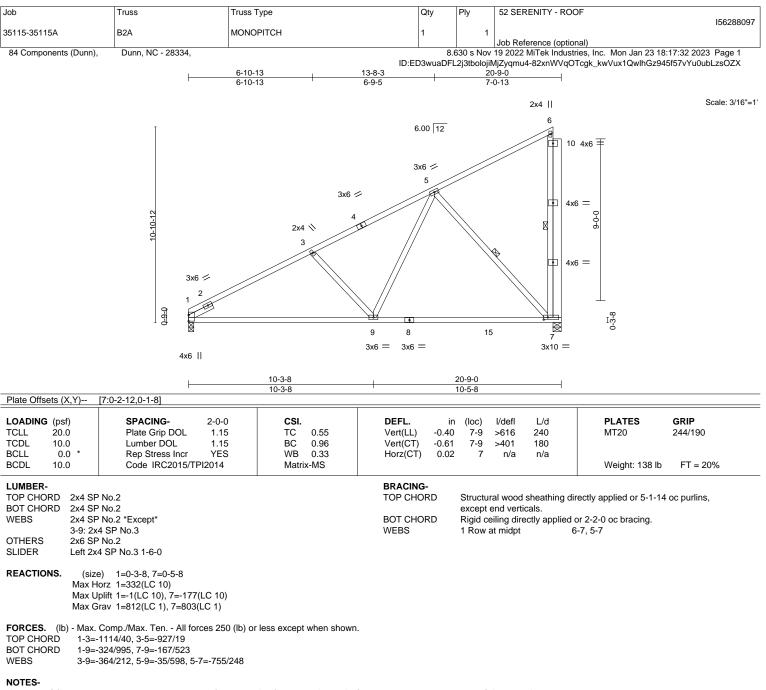
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 3) will fit between the bottom chord and any other members, with BCDL = 10.0psf.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 8=177.







 Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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

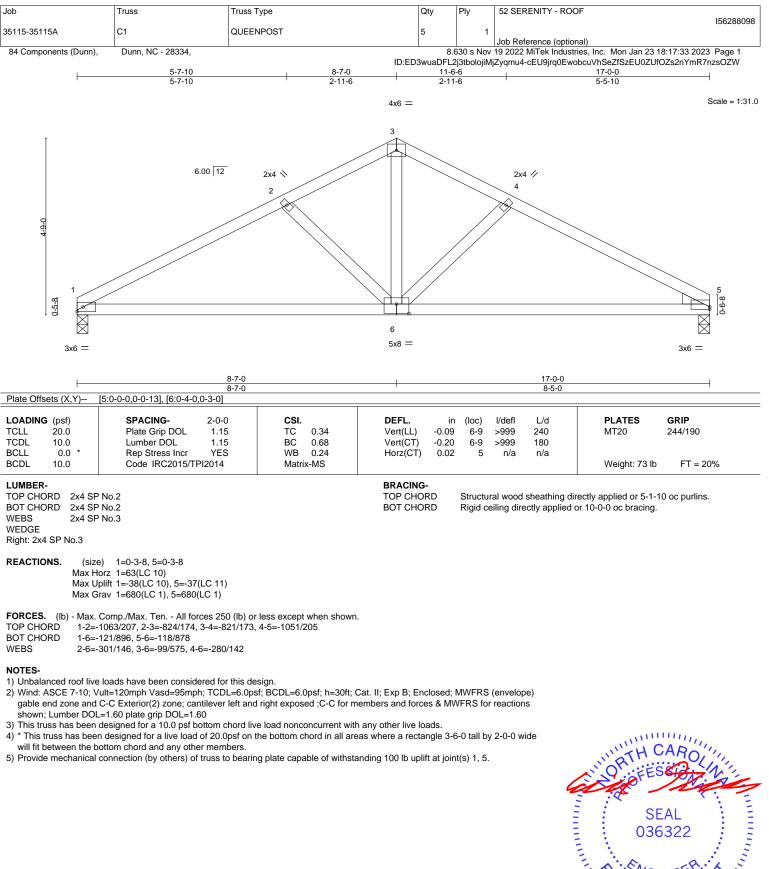
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 7=177.

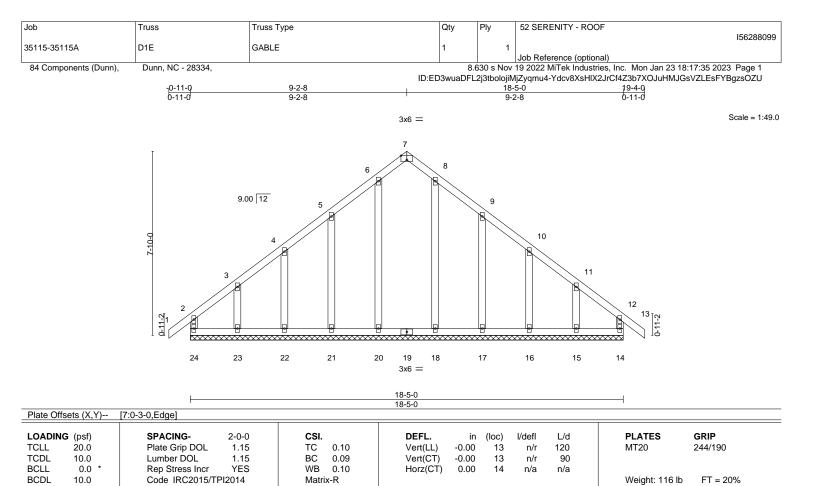












BRACING-

TOP CHORD

BOT CHORD

NOTES-

LUMBER-

WEBS

OTHERS

TOP CHORD

BOT CHORD

REACTIONS.

(lb) -

2x4 SP No.2

2x4 SP No.2

2x4 SP No.2

2x4 SP No.3 *Except* 6-20,8-18: 2x4 SP No.2

All bearings 18-5-0. Max Horz 24=-160(LC 8)

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

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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

Max Grav All reactions 250 lb or less at joint(s) 24, 14, 20, 21, 22, 23, 18, 17, 16, 15

Max Uplift All uplift 100 lb or less at joint(s) 24, 14, 21, 22, 17, 16 except 23=-133(LC 10), 15=-128(LC 11)

- 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) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 24, 14, 21, 22, 17, 16 except (it=lb) 23=133, 15=128.



Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.



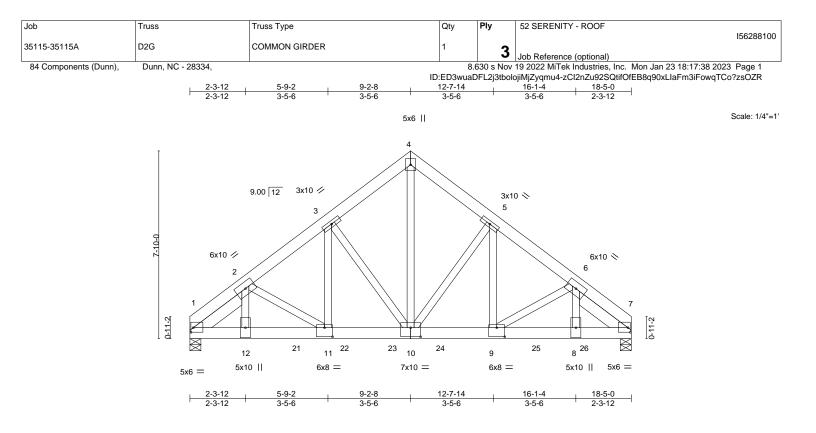


Plate Offsets (X,Y) [1:0-1-3,0-2-4], [7:0-1-3,0-2-4], [9:0-4-0,0-4-8], [10:0-5-0,0-4-8], [11:0-4-0,0-4-8]										
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNOCode IRC2015/TPI2014	CSI. TC 0.37 BC 0.43 WB 0.74 Matrix-MS	DEFL. in (loo Vert(LL) -0.07 11-1 Vert(CT) -0.14 11-1 Horz(CT) 0.04	2 >999 240	0 MT20	GRIP 244/190 FT = 20%				
BOT CHORD 2x6 SF WEBS 2x4 SF 4-10: 2 SLIDER Left 2x REACTIONS. (sizt Max H	TOP CHORD 2x6 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. BOT CHORD 2x6 SP DSS BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing. WEBS 2x4 SP No.3 *Except* A-10: 2x4 SP No.2 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. SLIDER Left 2x6 SP No.2 2-6-7, Right 2x6 SP No.2 2-6-7 PLY-TO-PLY CONNECTION REQUIRES THAT AN APPROVED REACTIONS. (size) 1=0-5-8 (req. 0-5-13), 7=0-5-8 Max Horz 1=142(LC 26) Max Grav 1=11155(LC 2), 7=9015(LC 2) PLY-TO-PLY CONNECTION REQUIRES THAT AN APPROVED FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. PLY-TO-PLY CONNECTIONS.									
 Top chords connect Bottom chords conn Web connected with at 0-6-0 oc, member 3) All loads are conside ply connections have 4) Unbalanced roof live 5) Wind: ASCE 7-10; V gable end zone; can 6) This truss has been 7) * This truss has been 7) * This truss has been 8) WARNING: Require 9) Hanger(s) or other c 2-3-12, 1951 lb dow 	Interfected together as follows: ed with 10d (0.131"x3") nails as follows: ected with 10d (0.131"x3") nails as follows: ected with 10d (0.131"x3") nails as follows: 12 Gauge (0.216"x3.5") screws as follows r 2-12 2x4 - 2 rows staggered at 0-6-0 o ered equally applied to all plies, except i e been provided to distribute only loads e loads have been considered for this de /ult=120mph Vasd=95mph; TCDL=6.0p; tillever left and right exposed ; Lumber I designed for a 10.0 psf bottom chord lin n designed for a live load of 20.0psf on pottom chord and any other members. d bearing size at joint(s) 1 greater than sonnection device(s) shall be provided s n at 4-5-4, 1951 lb down at 6-5-4 on bo ers.	ws: 2x6 - 3 rows staggere ws: 2x4 - 1 row at 0-9-0 c c. f noted as front (F) or bac noted as (F) or (B), unles sign. sf; BCDL=6.0psf; h=30ft; (DOL=1.60 plate grip DOL= re load nonconcurrent with the bottom chord in all are input bearing size. ufficient to support concer 1 lb down at 8-5-4, 1947 l	d at 0-4-0 oc. c, Except member 6-8 2x4 - 2 k (B) face in the LOAD CASE(s otherwise indicated. Cat. II; Exp B; Enclosed; MWF -1.60 any other live loads. was where a rectangle 3-6-0 ta htrated load(s) 5272 lb down a b down at 10-5-4, 1947 lb dow	S) section. Ply to RS (envelope) Il by 2-0-0 wide nd 114 lb up at wn at 12-5-4, and	SE 036 NGI	ARO SIGNA AL SIZZ NEER GILBERTITUT ARY 25,2023				
WARNING - Verify Design valid for use o a truss system. Before building design. Braci	design parameters and READ NOTES ON THIS AN nly with MITek® connectors. This design is based a use, the building designer must verify the applica ing indicated is to prevent buckling of individual tru stability and to prevent collapse with possible pers	only upon parameters shown, an bility of design parameters and p ss web and/or chord members or	d is for an individual building compone roperly incorporate this design into the nly. Additional temporary and perman	nt, not overall		EERING BY ENCO A MiTek Affiliate				

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building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/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 52 SERENITY - ROOF					
					156288100		
35115-35115A	D2G	COMMON GIRDER					
				J	Job Reference (optional)		
84 Components (Dunn),	Dunn, NC - 28334,	8.630 s Nov 19 2022 MiTek Industries, Inc. Mon Jan 23 18:17:38 2023 Page 2					
		ID:ED3wuaDFL2j3tbolojiMjZyqmu4-zCl2nZu92SQtifOfEB8q90xLlaFm3iFowqTCo?zsOZR					

LOAD CASE(S) Standard

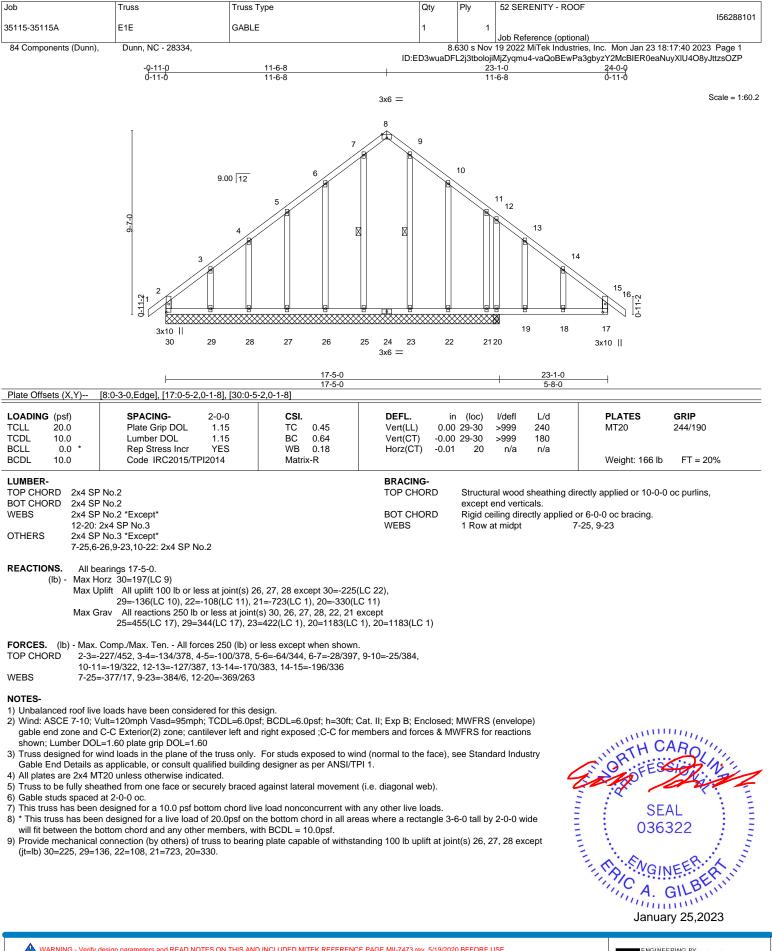
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-4=-60, 4-7=-60, 13-17=-20

Concentrated Loads (lb)

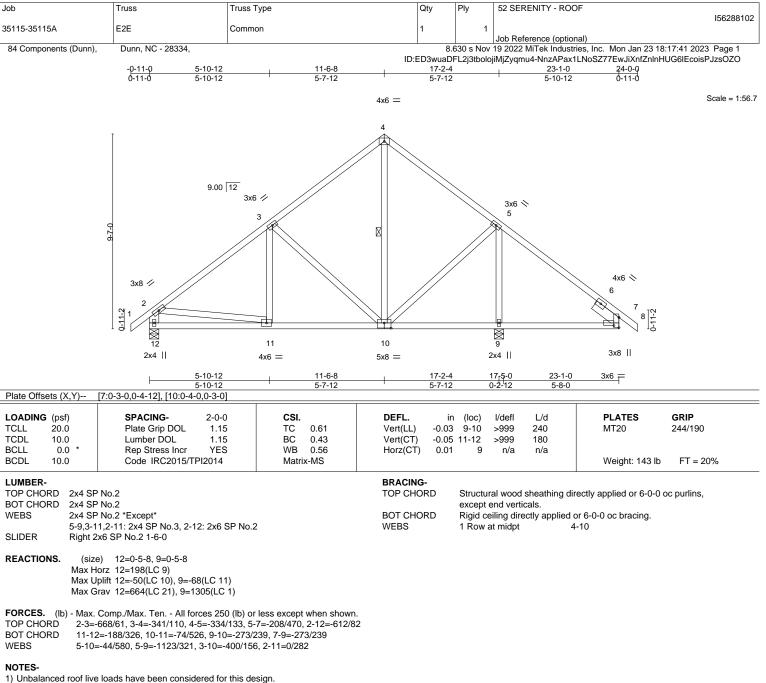
Vert: 9=-1871(B) 12=-3915(B) 21=-1875(B) 22=-1875(B) 23=-1875(B) 24=-1871(B) 25=-1871(B) 26=-1871(B)





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

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Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions

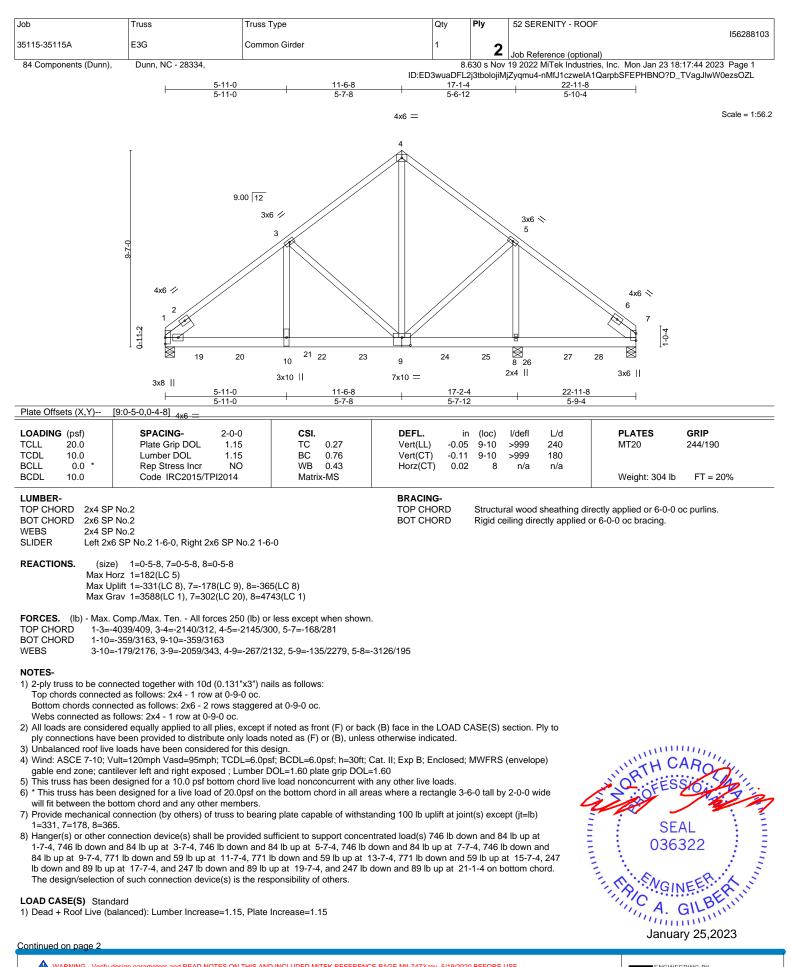
shown; Lumber DOL=1.60 plate grip DOL=1.60

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

4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 9.





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

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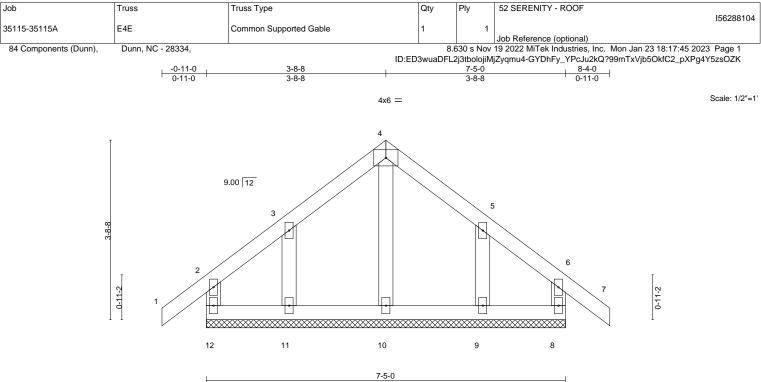
Job	Truss	Truss Type	52 SERENITY - ROOF					
					156288103			
35115-35115A	E3G	Common Girder						
				L	Job Reference (optional)			
84 Components (Dunn),	Dunn, NC - 28334,	8.630 s Nov 19 2022 MiTek Industries, Inc. Mon Jan 23 18:17:44 2023 Page 2						
		ID:ED3wuaDFL2j3tbolojiMjZyqmu4-nMfJ1czweIA1QarpbSFEPHBNO?D_TVagJlwW0ezsOZL						

LOAD CASE(S) Standard

Uniform Loads (pf) Vert: 1-4=-60, 4-7=-60, 11-15=-20 Concentrated Loads (lb)

Vert: 9=-771(B) 19=-746(B) 20=-746(B) 21=-746(B) 22=-746(B) 23=-746(B) 24=-771(B) 25=-771(B) 26=-247(B) 27=-247(B) 28=-247(B) 28=-267(B) 28=-267(B) 28=-267(B) 28=-267(B) 28=-267(B) 28=-267(B) 28=-267(B) 28=-267(B) 28=-26





			7-5-0	1	
LOADING (psf)	SPACING- 2-0	-0-0 CSI.	DEFL. in (loc)	l/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.	1.15 TC 0.08	Vert(LL) -0.00 7	n/r 120	MT20 244/190
TCDL 10.0	Lumber DOL 1.	L15 BC 0.03	Vert(CT) -0.00 7	n/r 90	
BCLL 0.0 *	Rep Stress Incr YE	YES WB 0.04	Horz(CT) 0.00 8	n/a n/a	
BCDL 10.0	Code IRC2015/TPI201	14 Matrix-R			Weight: 40 lb FT = 20%
LUMBER-			BRACING-		

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x4 SP No.2 WEBS OTHERS 2x4 SP No.3 TOP CHORD

Structural wood sheathing directly applied or 7-5-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 7-5-0.

Max Horz 12=73(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 12, 8, 11, 9

Max Grav All reactions 250 lb or less at joint(s) 12, 8, 10, 11, 9

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
- 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) All plates are 2x4 MT20 unless otherwise indicated.

5) Gable requires continuous bottom chord bearing.

- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 8, 11, 9.



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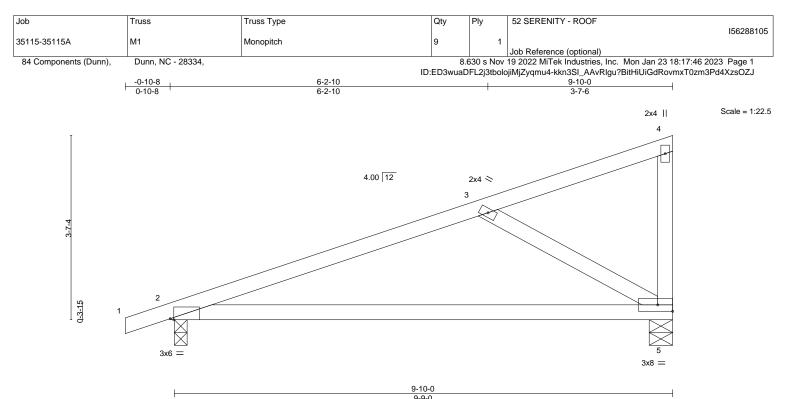


Plate Offsets (X,Y)	[2:0-0-14,Edge]		9-9-0					
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.68 BC 0.74 WB 0.18 Matrix-MS	DEFL. ir Vert(LL) -0.21 Vert(CT) -0.46 Horz(CT) 0.01	5-8	l/defl >544 >254 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 42 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD 2x4 SI BOT CHORD 2x4 SI	BRACING- TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc pu except end verticals.							

BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-5-8, 2=0-3-0 Max Horz 2=119(LC 6) Max Uplift 5=-61(LC 10), 2=-55(LC 6) Max Grav 5=385(LC 1), 2=442(LC 1)

2x4 SP No.3

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-506/111 BOT CHORD 2-5=-184/463

WFBS 3-5=-497/219

NOTES-

WEBS

1) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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

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

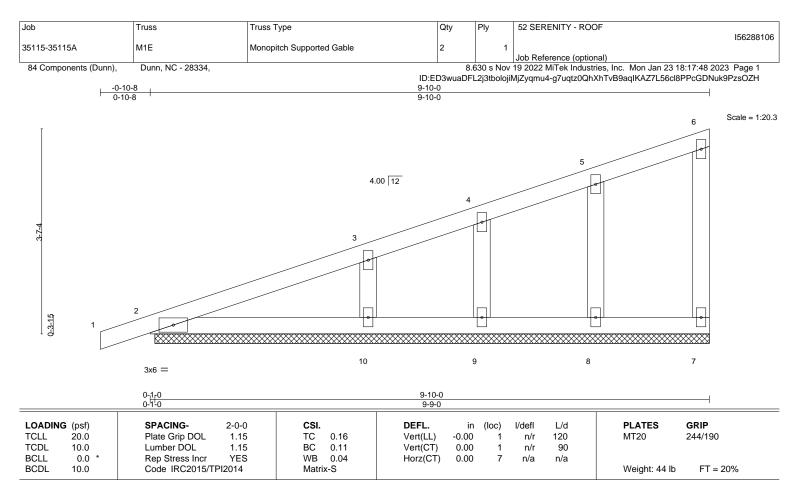
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2.



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818 Soundside Road Edenton, NC 27932



LUMBER-

 TOP CHORD
 2x4 SP No.2

 BOT CHORD
 2x4 SP No.2

 WEBS
 2x4 SP No.3

 OTHERS
 2x4 SP No.3

BRACING-

D Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
D Bid acting directly applied or 10.0.0 oc braging

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 9-9-0.

(lb) - Max Horz 2=119(LC 6)

Max Uplift All uplift 100 lb or less at joint(s) 7, 2, 8, 9, 10 Max Grav All reactions 250 lb or less at joint(s) 7, 2, 8, 9 except 10=300(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

NOTES-

 Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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

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

3) All plates are 2x4 MT20 unless otherwise indicated.

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

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

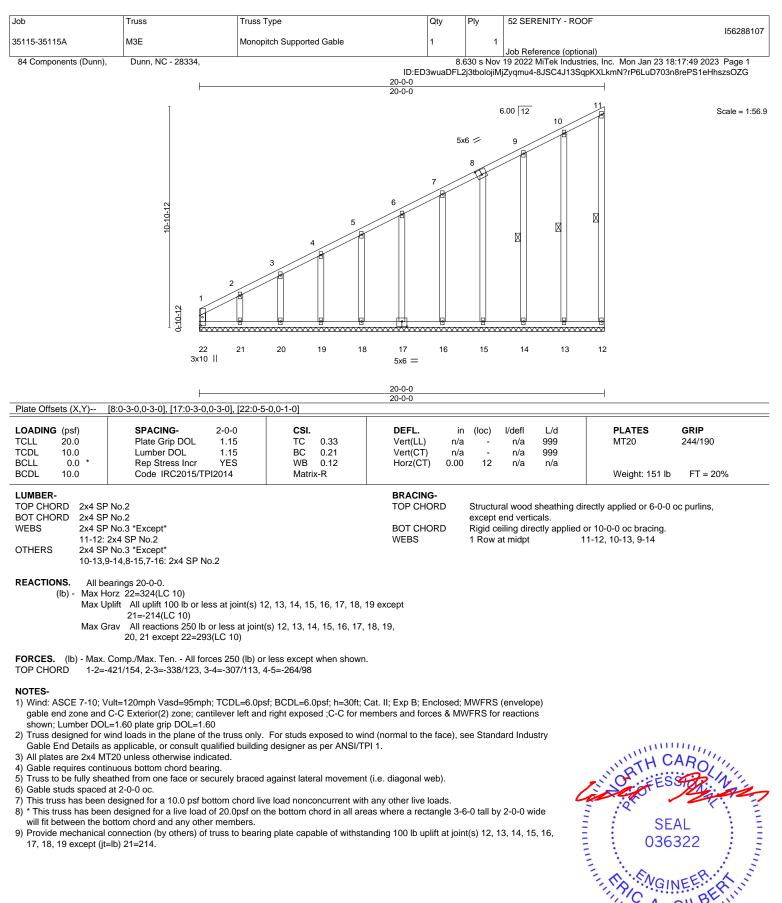
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2, 8, 9, 10.

8) Non Standard bearing condition. Review required.







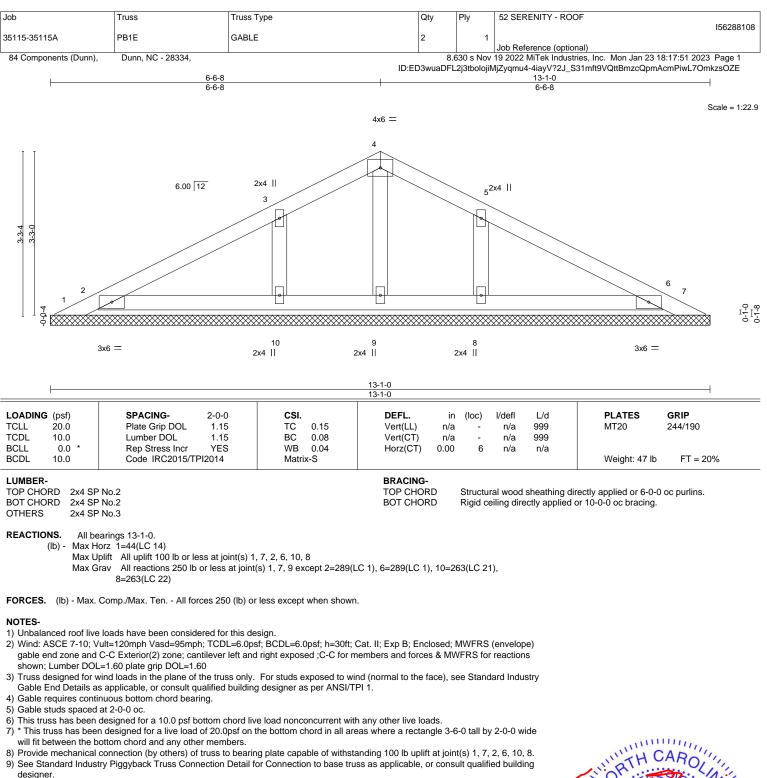
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 13, 14, 15, 16, 17, 18, 19 except (jt=lb) 21=214.



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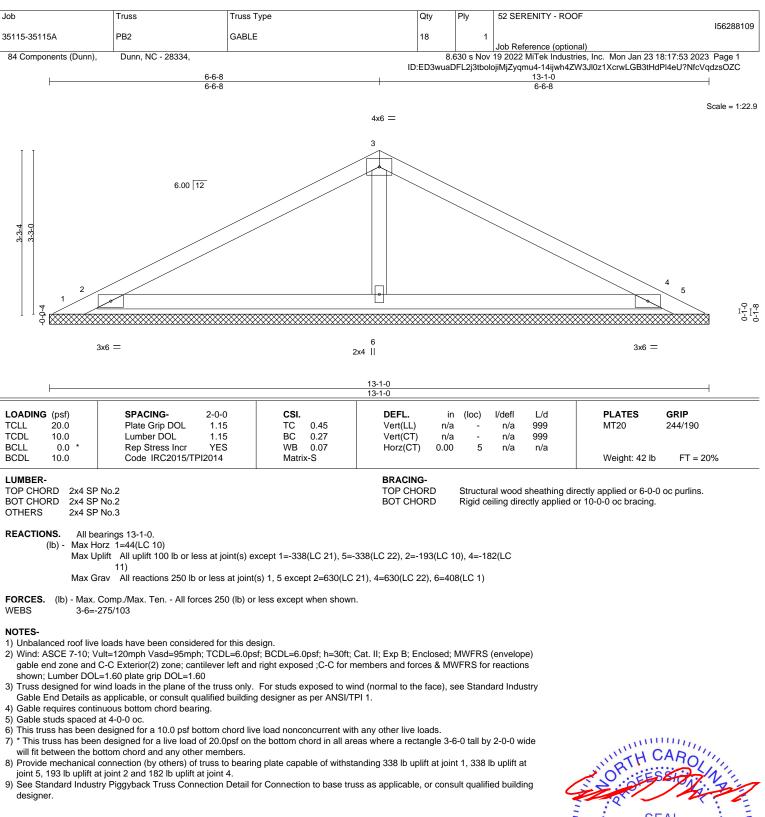
G mmm January 25,2023

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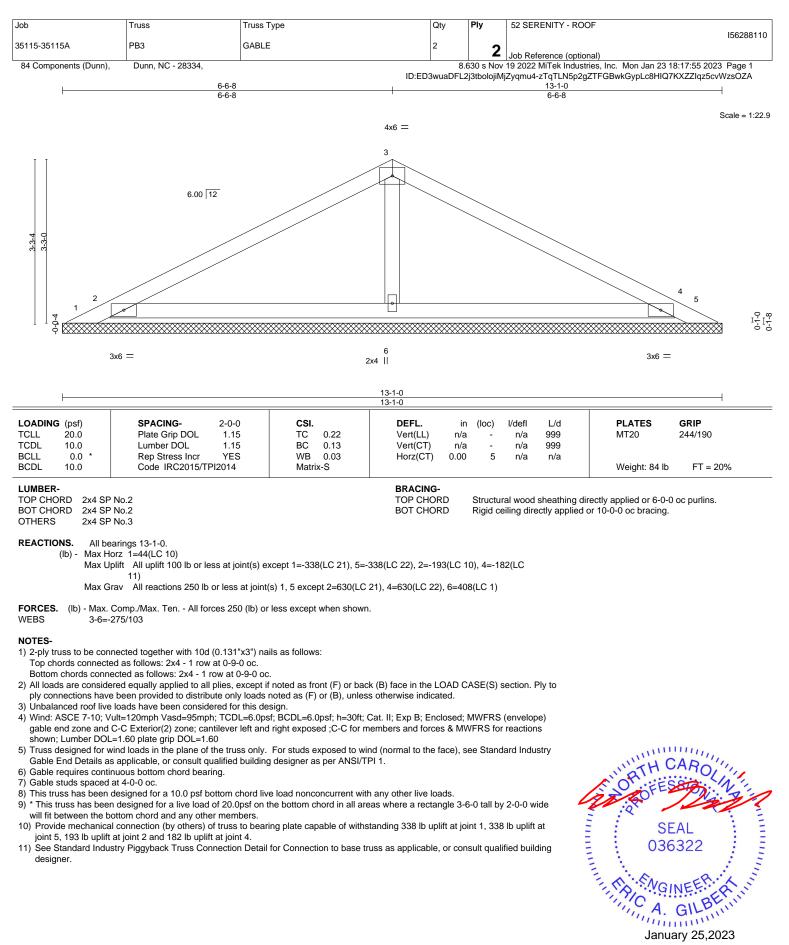




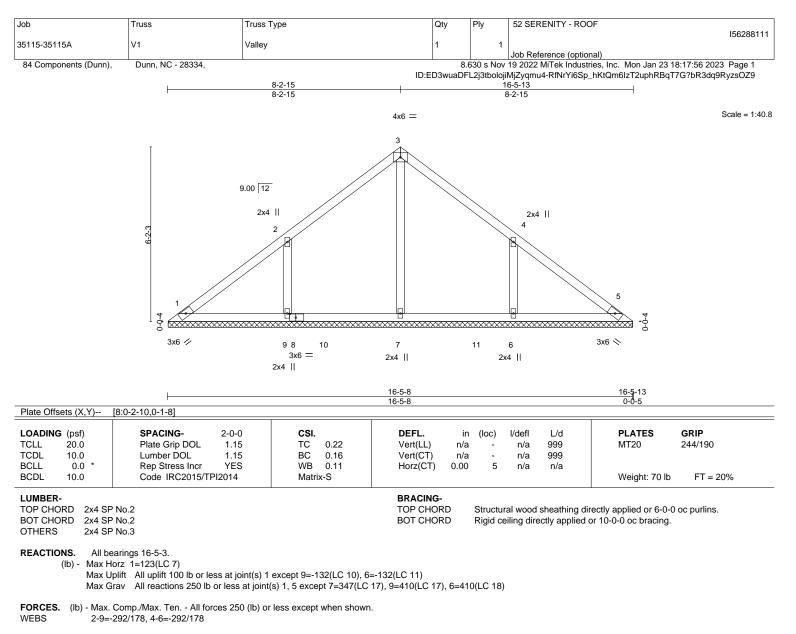
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

A MiTek A 818 Soundside Road

Edenton, NC 27932



818 Soundside Road Edenton, NC 27932



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

2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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

3) Gable requires continuous bottom chord bearing.

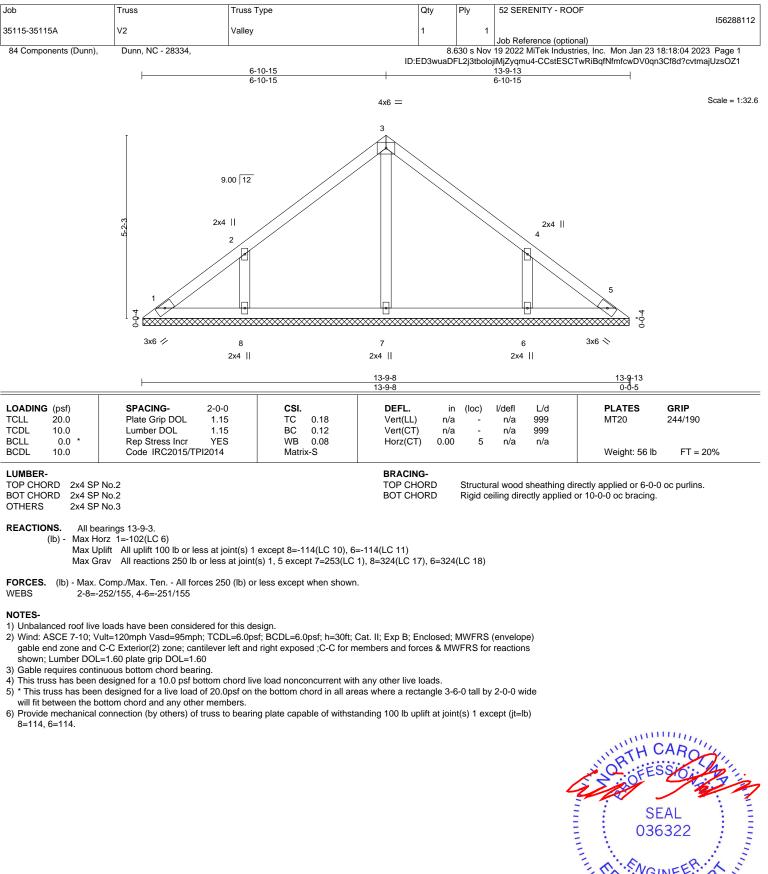
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 9=132, 6=132.

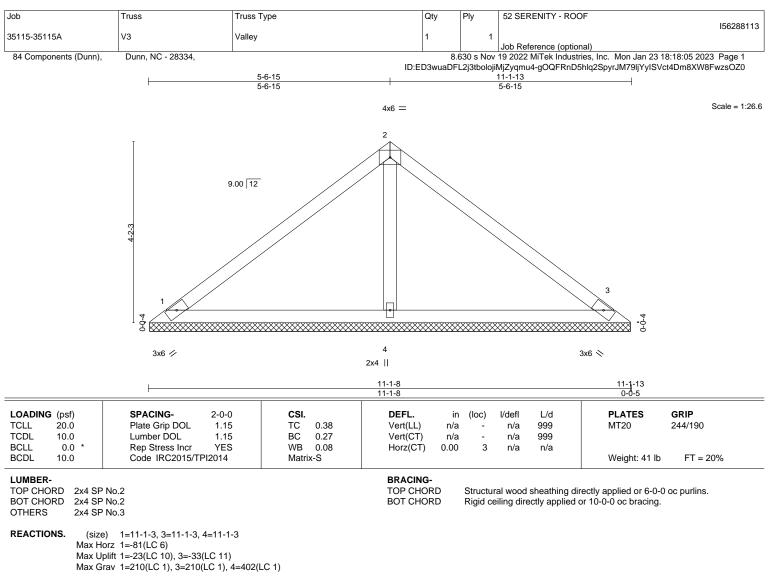












FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

NOTES-

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

2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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

3) Gable requires continuous bottom chord bearing.

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

5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide

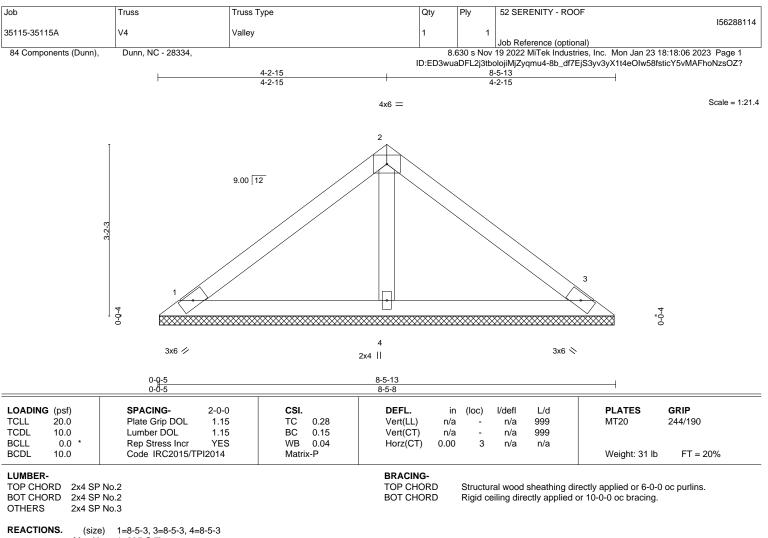
will fit between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



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Max Horz 1=60(LC 7)

Max Uplift 1=-24(LC 10), 3=-32(LC 11) Max Grav 1=170(LC 1), 3=170(LC 1), 4=270(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

NOTES-

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

2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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

3) Gable requires continuous bottom chord bearing.

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

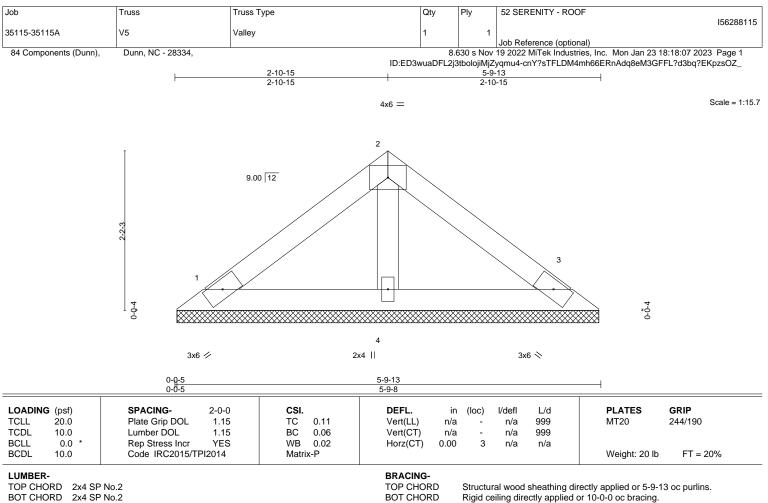
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide

will fit between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.







BOT CHORD 2x4 SP No.2 OTHERS 2x4 SP No.3

REACTIONS. 1=5-9-3, 3=5-9-3, 4=5-9-3 (size) Max Horz 1=-39(LC 6) Max Uplift 1=-16(LC 10), 3=-21(LC 11) Max Grav 1=110(LC 1), 3=110(LC 1), 4=175(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

NOTES-

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

2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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

3) Gable requires continuous bottom chord bearing.

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

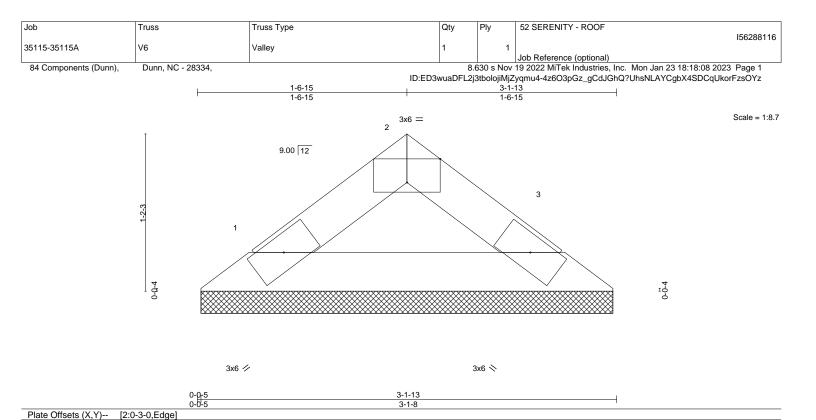
* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 5)

will fit between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.







DEFL

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

in (loc)

n/a

n/a

0.00

l/defl

n/a

n/a

n/a

3

L/d

999

999

n/a

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=3-1-3, 3=3-1-3 Max Horz 1=-18(LC 6) Max Uplift 1=-4(LC 10), 3=-4(LC 11) Max Grav 1=91(LC 1), 3=91(LC 1)

2x4 SP No.2

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

NOTES-

LOADING (psf)

20.0

10.0

0.0

10.0

TOP CHORD 2x4 SP No.2

TCLL

TCDL

BCLL

BCDL

LUMBER-

BOT CHORD

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

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2015/TPI2014

Lumber DOL

2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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

CSI.

тс

BC

WB

Matrix-P

0.02

0.06

0.00

3) Gable requires continuous bottom chord bearing.

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

2-0-0

1.15

1.15

YES

5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide

will fit between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



PLATES

Weight: 9 lb

MT20

Structural wood sheathing directly applied or 3-1-13 oc purlins.

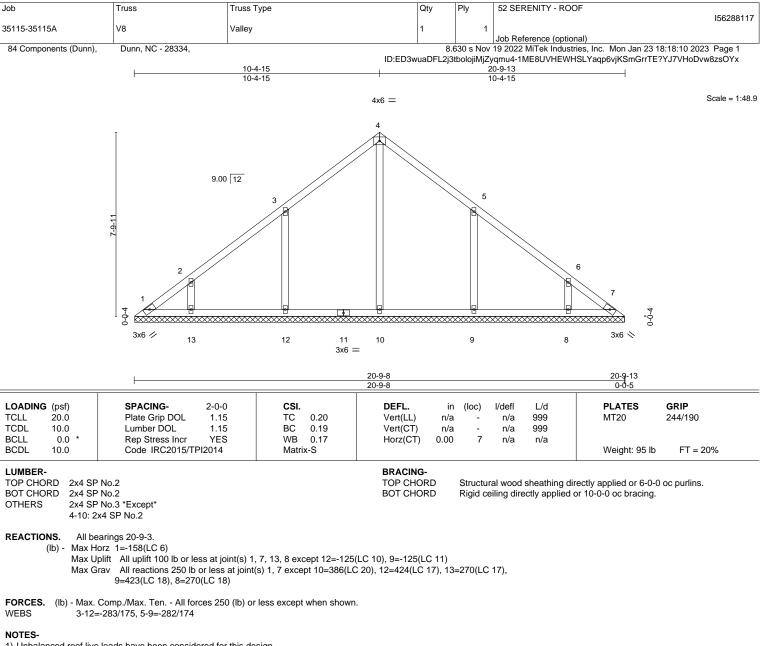
GRIP

244/190

FT = 20%

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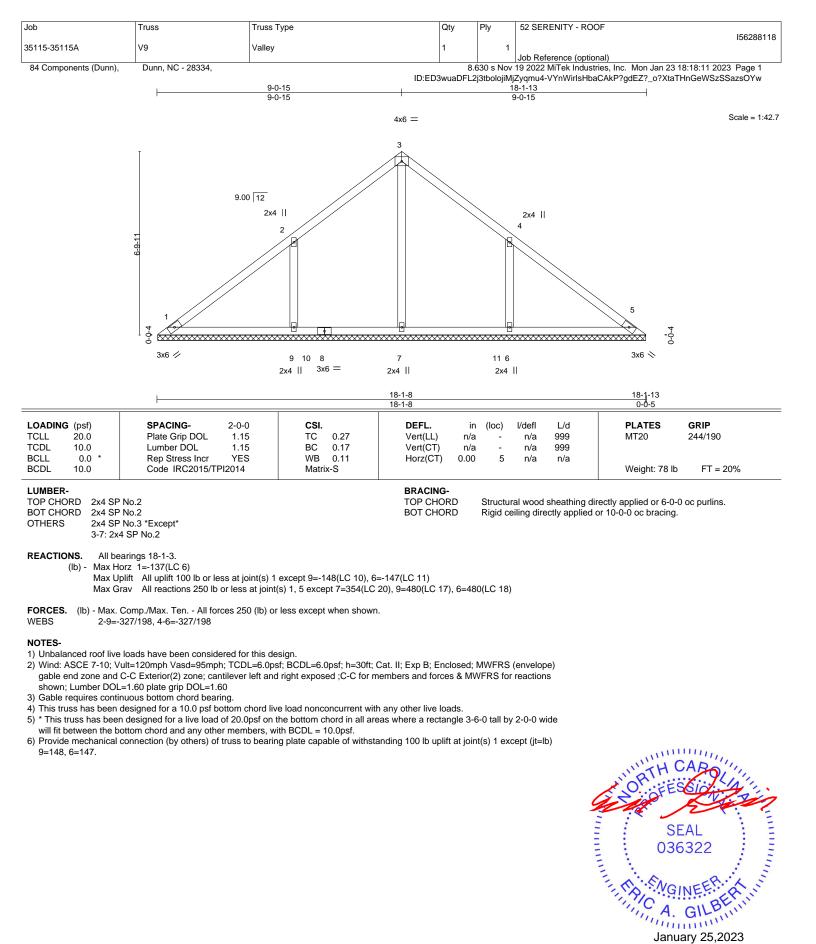
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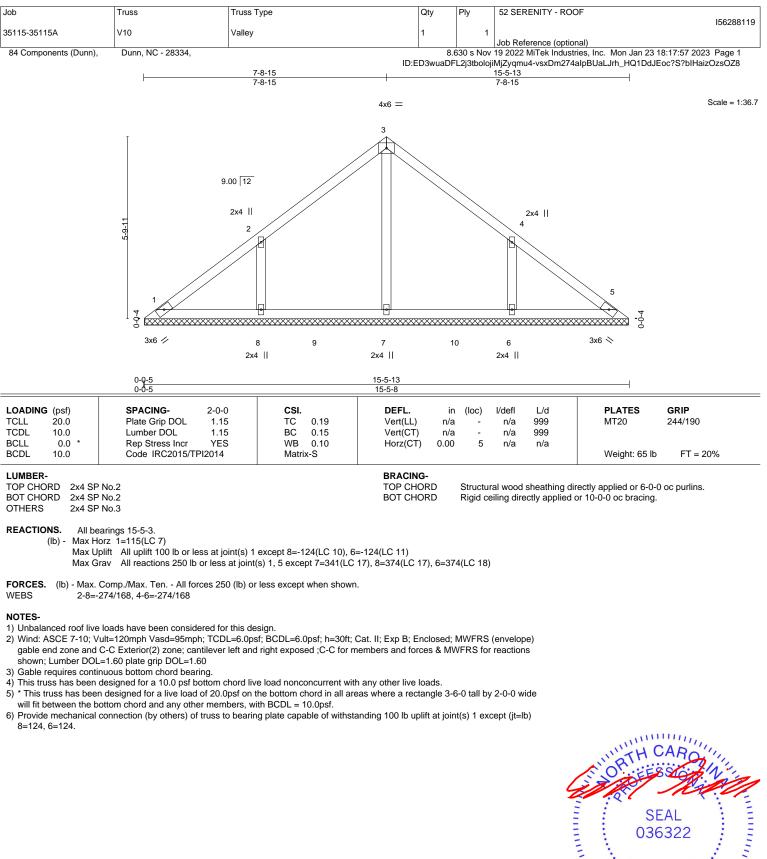
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 13, 8 except (jt=lb) 12=125, 9=125.





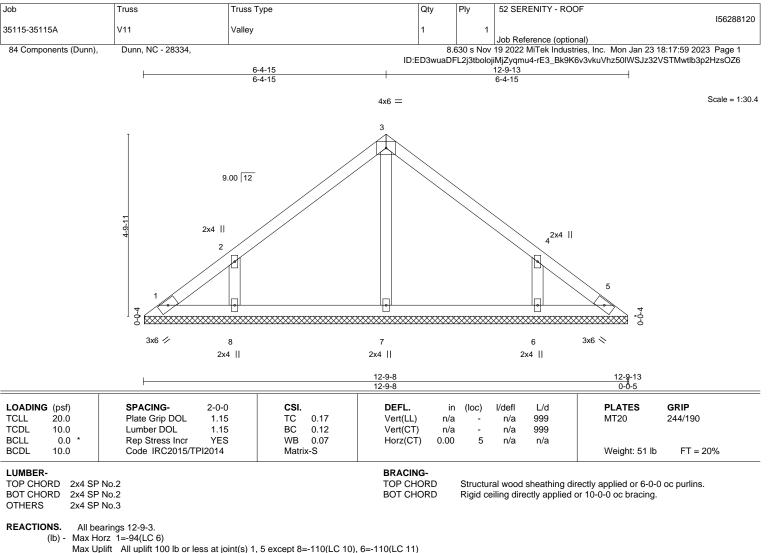












Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=255(LC 1), 8=310(LC 17), 6=310(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

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

2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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

3) Gable requires continuous bottom chord bearing.

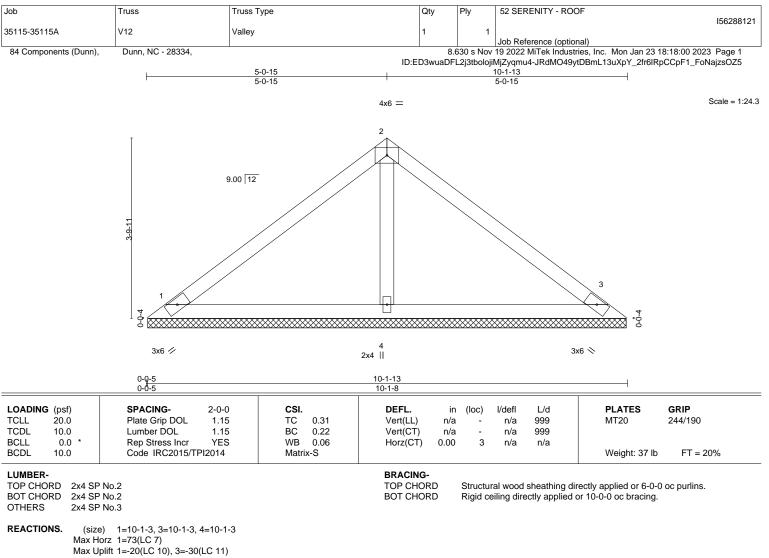
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=110, 6=110.







Max Grav 1=190(LC 1), 3=190(LC 1), 4=363(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

NOTES-

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

2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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

3) Gable requires continuous bottom chord bearing.

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

5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide

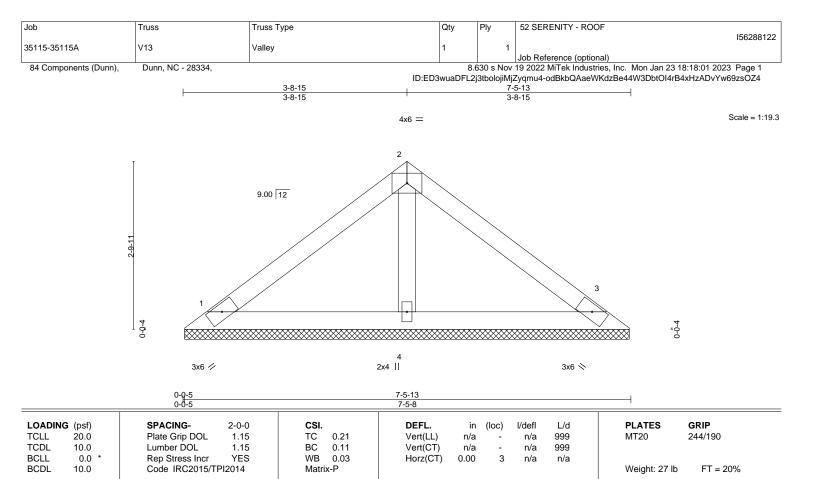
will fit between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



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LUMBER-

TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2OTHERS2x4 SP No.3

4 SP No.2 4 SP No.2 TOP CHORD BOT CHORD

BRACING-

Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=7-5-3, 3=7-5-3, 4=7-5-3 Max Horz 1=-52(LC 6) Max Uplift 1=-21(LC 10), 3=-28(LC 11) Max Grav 1=147(LC 1), 3=147(LC 1), 4=234(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

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

2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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

3) Gable requires continuous bottom chord bearing.

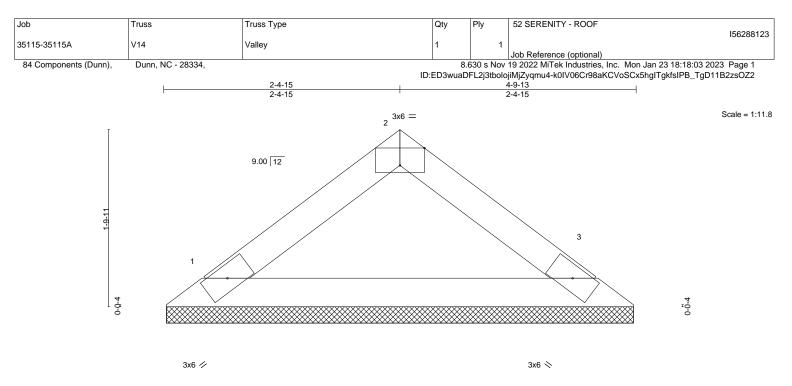
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide

will fit between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.





			<u>4-9-8</u> 4-9-8						<u> </u>		
Plate Offsets (X,Y)	[2:0-3-0,Edge]				1					1	
LOADING (psf)	SPACING- 2	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	С	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15 E	BC	0.19	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES \	NΒ	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI20	014	<i>Matri</i>	x-P						Weight: 15 lb	FT = 20%
LUMBER-					BRACING-						

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2

REACTIONS. 1=4-9-3, 3=4-9-3 (size) Max Horz 1=-31(LC 6) Max Uplift 1=-7(LC 10), 3=-7(LC 11) Max Grav 1=158(LC 1), 3=158(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

NOTES-

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

2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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

3) Gable requires continuous bottom chord bearing.

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

5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide

will fit between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



Structural wood sheathing directly applied or 4-9-13 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.



