

RE: 35426A 6 SERENITY

Address:

City:

Trenco 818 Soundside Rd Edenton, NC 27932

Site Information: Customer: Project Name: 35426A Lot/Block:

Model: Subdivision: State:

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

Design Code: IRC2015/TPI2014 Wind Code: ASCE 7-10 Roof Load: 40.0 psf

Design Program: MiTek 20/20 8.6 Wind Speed: 120 mph Floor Load: N/A psf

This package includes 46 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	153629133	A1G	8/16/2022	21	153629153	J3	8/16/2022
2	153629134	A2	8/16/2022	22	153629154	J4	8/16/2022
3	153629135	A3	8/16/2022	23	153629155	J5	8/16/2022
4	153629136	A4	8/16/2022	24	153629156	J6	8/16/2022
5	153629137	A5	8/16/2022	25	153629157	J7	8/16/2022
6	153629138	A6	8/16/2022	26	153629158	J8	8/16/2022
7	153629139	A7	8/16/2022	27	153629159	J9	8/16/2022
8	153629140	A8E	8/16/2022	28	153629160	M1	8/16/2022
9	153629141	B1E	8/16/2022	29	153629161	M1GE	8/16/2022
10	153629142	B2G	8/16/2022	30	153629162	M2	8/16/2022
11	153629143	C1E	8/16/2022	31	153629163	M2GE	8/16/2022
12	153629144	C2	8/16/2022	32	153629164	M3	8/16/2022
13	153629145	C3	8/16/2022	33	153629165	M3GE	8/16/2022
14	153629146	C4G	8/16/2022	34	153629166	PB1	8/16/2022
15	153629147	D1E	8/16/2022	35	153629167	PB2	8/16/2022
16	153629148	D2	8/16/2022	36	153629168	V1	8/16/2022
17	153629149	E1E	8/16/2022	37	153629169	V2	8/16/2022
18	153629150	E2	8/16/2022	38	153629170	V3	8/16/2022
19	153629151	J1	8/16/2022	39	153629171	V4	8/16/2022
20	153629152	J2	8/16/2022	40	153629172	V5	8/16/2022

The truss drawing(s) referenced above have been prepared by

Truss Engineering Co. under my direct supervision

based on the parameters provided by 84 Components - #2383.

Truss Design Engineer's Name: Gilbert, Eric

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

North Carolina COA: C-0844

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 TRENCO. Any project specific information included is for TRENCO customers file reference purpose only, and was not taken into account in the preparation of these designs. 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.



Gilbert, Eric

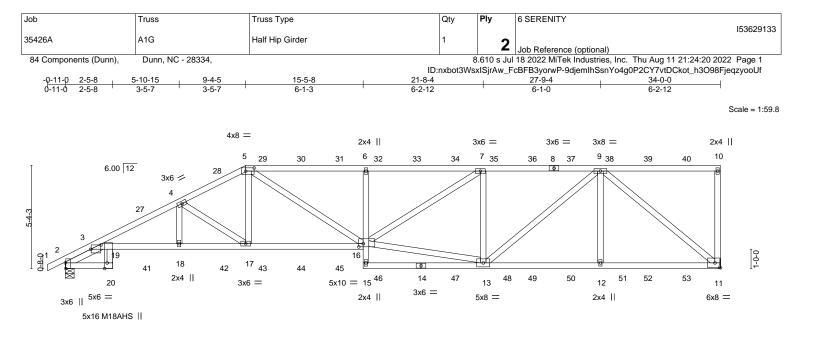


RE: 35426A - 6 SERENITY

Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:

Sile I	mormation.			
Proje Lot/B Addro		Project Name: 35	426A	Subdivision:
City,	County:			State:
No.	Seal#	Truss Name	Date	
41	153629173	V6	8/16/2022	
42	153629174	V7	8/16/2022	
43	153629175	V8	8/16/2022	
44	153629176	V9	8/16/2022	
45	153629177	V10	8/16/2022	
46	153629178	V11	8/16/2022	



2-5-8 2-5-8	5-10-15 9-4- 3-5-7 3-5-	-7	15-5-8 6-1-3	21-8-4 6-2-12		27-9-4 6-1-0	34-0-0 6-2-12	
Plate Offsets (X,Y) LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	[2:0-3-8,Edge], [3:0-6-5, SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/T	2-0-0 1.15 1.15 NO	CSI. TC 0.81 BC 0.88 WB 0.58 Matrix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) 0.29 16-17 -0.39 18-19 0.23 11	l/defi L/d >999 240 >999 180 n/a n/a	PLATES MT20 M18AHS Weight: 409 lb	GRIP 197/144 142/136 FT = 20%
1-5: 2x BOT CHORD 2x4 SF 19-20: WEBS 2x4 SF	² No.2 or 2x4 SPF No.2 * 44 SP No.1 ² No.2 or 2x4 SPF No.2 * 2x4 SP No.1, 3-16: 2x4 ³ No.2 or 2x4 SPF No.2 44 SP No.3 2-0-15	*Except*		BRACING TOP CHOI BOT CHOI	RD Structo	t end verticals.	directly applied or 4-3-12 d or 10-0-0 oc bracing.	2 oc purlins,
Max H Max U	e) 11=Mechanical, 2=0 lorz 2=173(LC 26) Jplift 11=-945(LC 5), 2=-6 Grav 11=1873(LC 1), 2=1	631(LC 8)						
TOP CHORD 3-22: 7-9= BOT CHORD 2-20 17-1; 11-1: WEBS 4-18:	Comp./Max. Ten All fc =-1922/640, 3-4=-4826/1 -2977/1487 =-440/1098, 19-20=-120/ 8=-1824/4354, 16-17=-15 2=-1032/1945 =-177/725, 4-17=-1369/4 =-544/1172, 7-13=-1129/	873, 4-5=`3661, ′322, 3-19=-138 527/3234, 6-16= ·01, 5-17=-310/8	/1617, 5-6=-4018/19 3/3256, 18-19=-1824 -513/337, 12-13=-10 70, 5-16=-625/1011	950, 6-7=-3972/1932, 4/4354, 032/1945, , 13-16=-1480/2816,				
 NOTES- 1) 2-ply truss to be corr Top chords connect Bottom chords conr Webs connected as 2) All loads are consid ply connections hav 3) Unbalanced roof live 4) Wind: ASCE 7-10; \u03c3 gable end zone; car 5) Provide adequate d 6) All plates are MT20 7) This truss has been 8) * This truss has been will fit between the b 9) Refer to girder(s) for 	nnected together with 100 ted as follows: 2x4 - 1 row nected as follows: 2x4 - 1 row follows: 2x4 - 1 row ered equally applied to al re been provided to distrik e loads have been conside /ult=120mph Vasd=95mp rainage to prevent water plates unless otherwise i designed for a 10.0 psf t ne designed for a live load bottom chord and any oth r truss to truss connection al connection (by others)	d (0.131"x3") na w at 0-9-0 oc. row at 0-9-0 oc -9-0 oc. Il plies, except if bute only loads i dered for this de botto only loads i h; TCDL=6.0ps ssed ; end vertic ponding. indicated. bottom chord liv d of 20.0psf on t er members. ns.	ils as follows: noted as front (F) or noted as (F) or (B), u sign. f; BCDL=6.0psf; h=3 al left and right expo e load nonconcurren he bottom chord in a	r back (B) face in the L unless otherwise indica 30ft; Cat. II; Exp B; End 3sed; Lumber DOL=1.6 nt with any other live lo all areas where a recta	ted. Nosed; MWFR 0 plate grip DC ads. ngle 3-6-0 tall t		SE 036 A. Augu	• –



Job	Truss	Truss Type	Qty	Ply	6 SERENITY
					153629133
35426A	A1G	Half Hip Girder	1	2	
					Job Reference (optional)
84 Components (Dunn),	Dunn, NC - 28334,			3.610 s Jul	18 2022 MiTek Industries, Inc. Thu Aug 11 21:24:20 2022 Page 2

8.610 s Jul 18 2022 MiTek Industries, Inc. Thu Aug 11 21:24:20 2022 Page 2 ID:nxbot3WsxISjrAw_FcBFB3yorwP-9djemIhSsnYo4g0P2CY7vtDCkot_h3O98FjeqzyooUf

NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 90 lb down and 43 lb up at 4-2-4, 67 lb down and 48 lb up at 6-2-4, 19 lb down and 19 lb up at 8-2-4, 89 lb down and 72 lb up at 10-2-4, 90 lb down and 72 lb up at 12-2-4, 90 lb down and 72 lb up at 14-2-4, 103 lb down and 108 lb up at 16-2-4, 103 lb down and 108 lb up at 26-2-4, 103 lb down and 108 lb up at 28-2-4, 103 lb down and 108 lb up at 28-2-4, and 103 lb down and 108 lb up at 30-2-4, and 103 lb down and 108 lb up at 32-2-4 on top chord, and 72 lb down and 38 lb up at 6-2-4, 100 lb down and 92 lb up at 8-2-4, 58 lb down and 70 lb up at 10-2-4, 58 lb down and 38 lb up at 12-2-4, 58 lb down and 70 lb up at 14-2-4, 45 lb down and 34 lb up at 16-2-4, 45 lb down and 34 lb up at 22-2-4, 45 lb down and 34 lb up at 20-2-4, 45 lb down and 34 lb up at 20-2-4, and 45 lb down and 34 lb up at 22-2-4, 45 lb down and 34 lb up at 23-2-4, and 45 lb down and 34 lb up at 32-2-4.

LOAD CASE(S) Standard

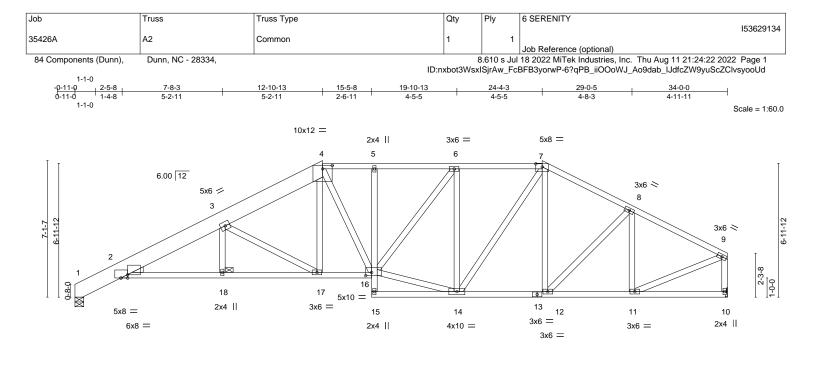
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-5=-60, 5-10=-60, 20-21=-20, 16-19=-20, 11-15=-20

Concentrated Loads (lb)

Vert: 14=-22(F) 4=-27(F) 18=-35(F) 27=-50(F) 29=-26(F) 30=-26(F) 31=-26(F) 32=-41(F) 33=-41(F) 33=-41(F) 35=-41(F) 3





1-1-0 2-5-8 1-1-0 1-4-8	7-8-3 5-2-11	12-10-13 5-2-11	15-5-8 2-6-11	19-10-13 4-5-5	24-4-3 4-5-5	29-0-5 4-8-3	<u>34-0-0</u> 4-11-1	
Plate Offsets (X,Y)	[2:0-4-4,0-2-0], [2:0-4-4,	0-0-0], [4:0-6-0,0	-2-3], [7:0-4-0,0-1-15],	[16:0-3-12,0-2-0]				
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/T	2-0-0 1.15 1.15 YES 'PI2014	CSI. TC 0.46 BC 0.88 WB 0.58 Matrix-MS	Vert(CT)		l/defl L/d >999 240 >999 180 n/a n/a	PLATES MT20 Weight: 248 lb	GRIP 197/144 FT = 20%
1-4: 2x BOT CHORD 2x4 SF WEBS 2x4 SF	P No.2 or 2x4 SPF No.2 * 10 SP DSS P No.2 or 2x4 SPF No.2 P No.2 or 2x4 SPF No.2 * 11: 2x4 SP No.3	·		BRACING- TOP CHORE BOT CHORE JOINTS) Structura except e) Rigid ce	P CHORD SECTION al wood sheathing dire ind verticals. iling directly applied o at Jt(s): 18	ectly applied or 4-0-6 r 10-0-0 oc bracing.	oc purlins,
WEDGE Left: 2x4 SP No.3 REACTIONS. (siz Max H	e) 1=0-5-8, 10=Mecha lorz 1=116(LC 9)	nical					TH CA	ROLIN

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

TOP CHORD 1-2=-601/95, 2-3=-2936/432, 3-4=-2228/367, 4-5=-1981/372, 5-6=-1975/372,

6-7=-1667/345, 7-8=-1596/313, 8-9=-1490/252, 9-10=-1298/216

BOT CHORD 2-18=-322/2734, 17-18=-322/2734, 16-17=-133/1882, 12-14=-83/1375, 11-12=-120/1281 WEBS 3-17=-967/217, 4-17=-57/588, 4-16=-89/339, 14-16=-122/1606, 6-16=-47/535,

6-14=-739/144, 7-14=-71/595, 8-11=-437/121, 9-11=-150/1349

NOTES-

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

Max Uplift 1=-38(LC 10), 10=-20(LC 11)

Max Grav 1=1362(LC 1), 10=1346(LC 1)

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 ; 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) Provide adequate drainage to prevent water ponding.

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

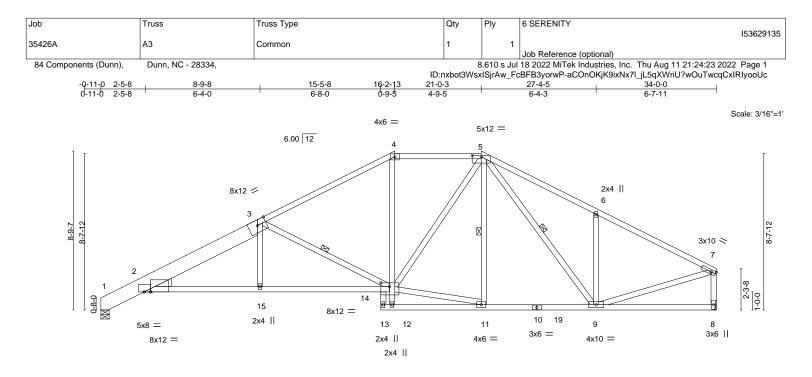
7) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 1 and 20 lb uplift at joint 10.



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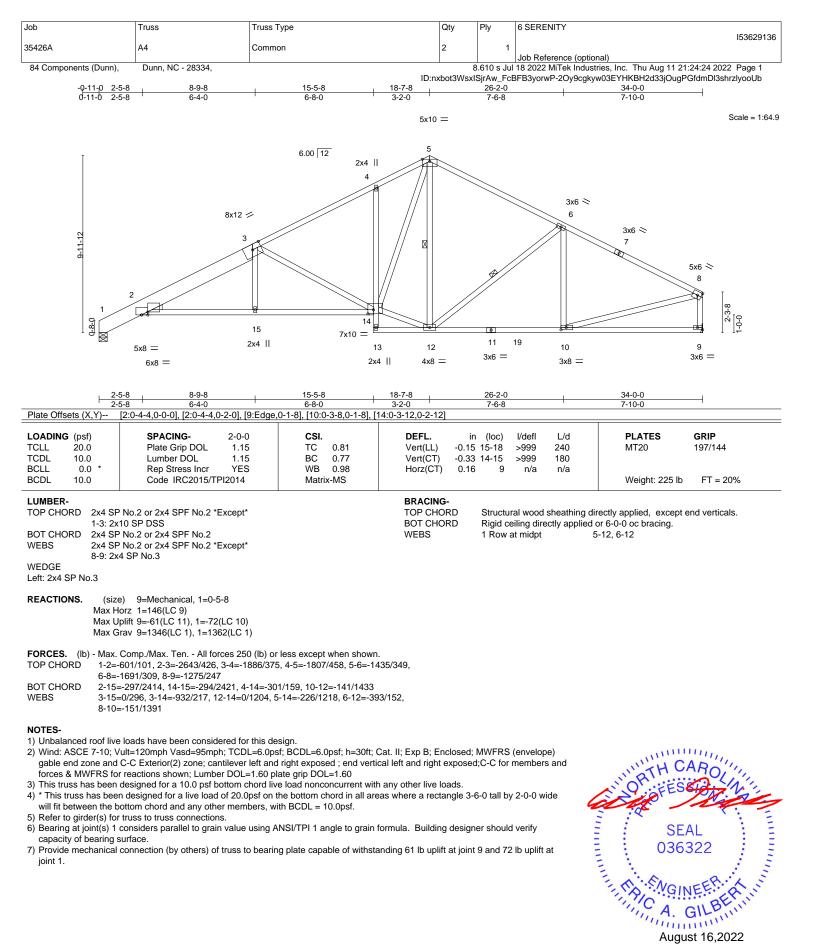


<u> −2-5</u> 2-5			- <u>2-13 21-0-3</u> -9-5 4-9-5	27-4-5	<u> </u>
Plate Offsets (X,Y)	[2:0-4-4,0-0-0], [2:0-4-4,0-0-0], [5:0-6-0	,0-0-15], [14:0-5-12,0-2-8]			
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.84 BC 0.78 WB 0.34 Matrix-MS	Vert(LL) -0.1	n (loc) l/defl L/d 4 15-18 >999 240 1 14-15 >999 180 6 8 n/a n/a	PLATES GRIP MT20 197/144 Weight: 228 lb FT = 20%
1-3: 2x BOT CHORD 2x4 SF	P No.2 or 2x4 SPF No.2 *Except* (10 SP DSS P No.2 or 2x4 SPF No.2 P No.2 or 2x4 SPF No.2 *Except*		BRACING- TOP CHORD BOT CHORD	except end verticals.	rectly applied or 2-2-0 oc purlins, or 10-0-0 oc bracing, Except:
	44 SP No.3		WEBS		-14, 5-11, 5-9 -14, 5-11, 5-9
Max U	e) 8=Mechanical, 1=0-5-8 lorz 1=133(LC 9) Jplift 8=-46(LC 11), 1=-59(LC 10) Grav 8=1347(LC 1), 1=1363(LC 1)			4	A MART
TOP CHORD 1-2=- 6-7=-	Comp./Max. Ten All forces 250 (lb) o -602/99, 2-3=-2666/423, 3-4=-1880/357 -1632/287, 7-8=-1285/233	, 4-5=-1549/361, 5-6=-164			SEAL 036322
WEBS 3-15= 12-14	=-297/2441, 14-15=-294/2448, 9-11=-5(=0/298, 3-14=-974/245, 11-14=-56/1225 4=0/302, 4-14=-17/475, 5-14=-73/518		/1390,		CABE
2) Wind: ASCE 7-10; V gable end zone and	e loads have been considered for this de /ult=120mph Vasd=95mph; TCDL=6.0p I C-C Exterior(2) zone; cantilever left and r reactions shown; Lumber DOL=1.60 p	sf; BCDL=6.0psf; h=30ft; 0 d right exposed ; end vertion			A. GILLIN

- 3) Provide adequate drainage to prevent water ponding.
- 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) Refer to girder(s) for truss to truss connections.
- 7) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 8 and 59 lb uplift at joint 1.

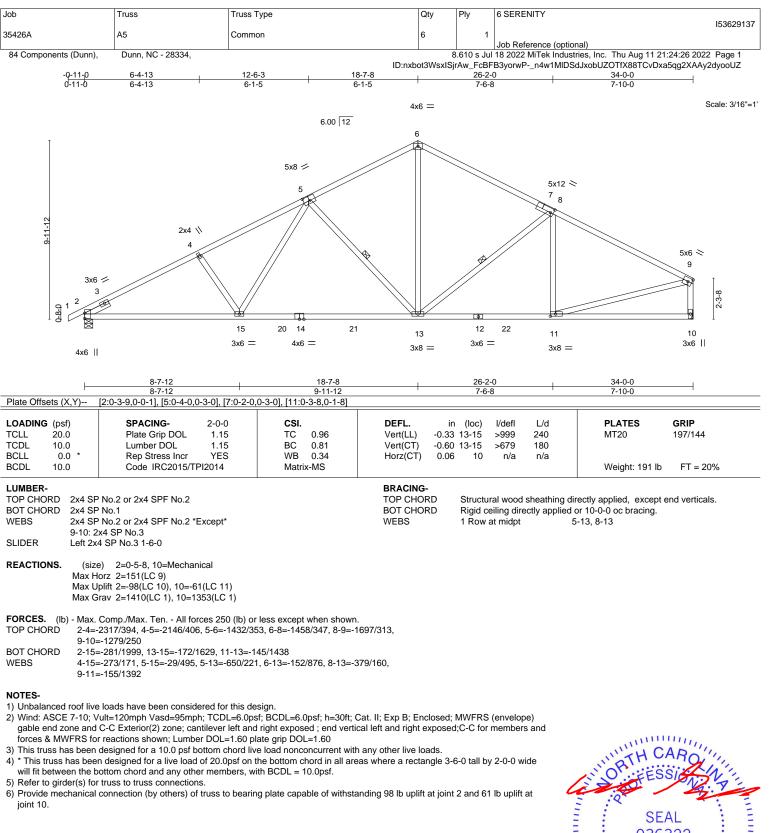
August 16,2022









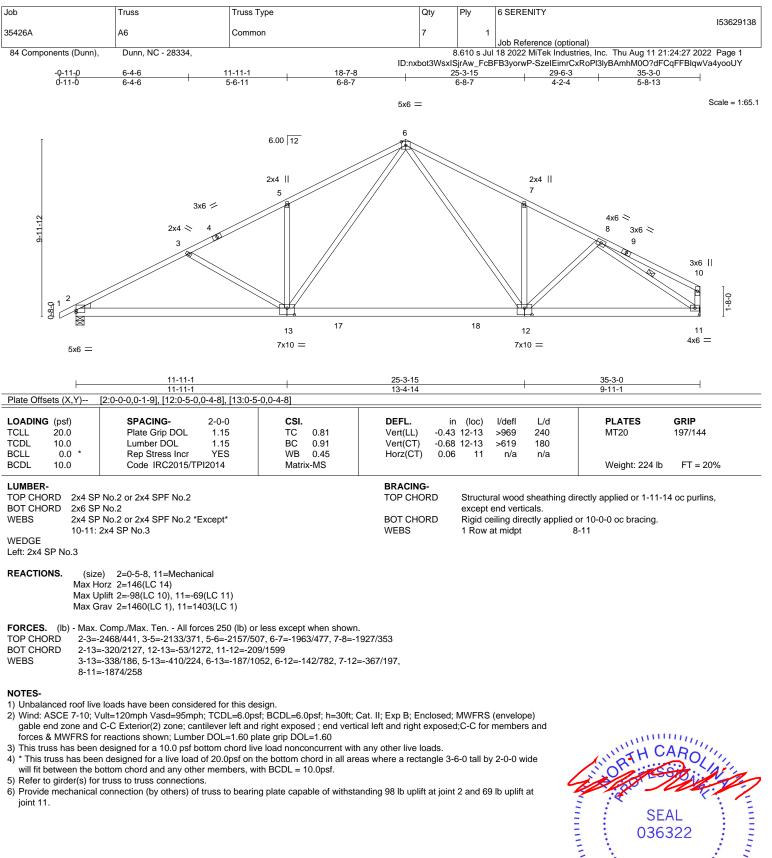




WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

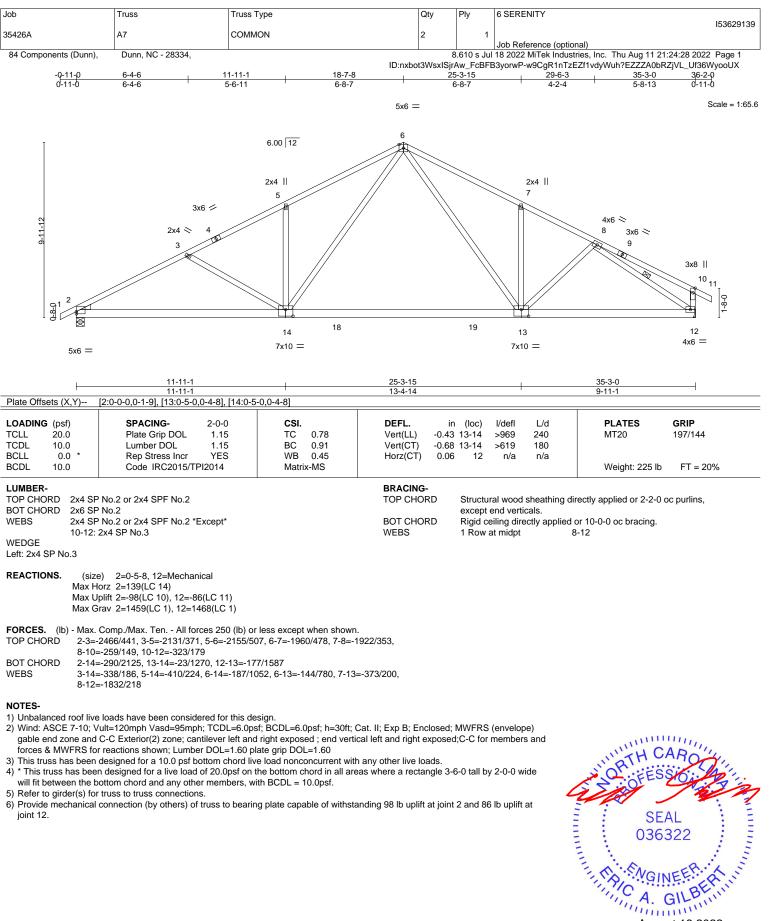
A MI Tek Affiliate 818 Soundside Road

Edenton, NC 27932



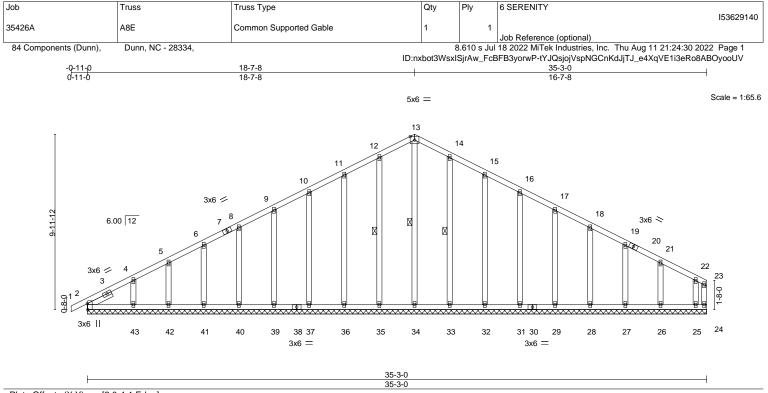






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ENGINEERING BY AMITEK Affiliate B18 Soundside Road Edenton, NC 27932



OADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
CLL 20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	-0.00	1	n/r	120	MT20	197/144
CDL 10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	0.00	1	n/r	90		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	24	n/a	n/a		
3CDL 10.0	Code IRC2015/TF	912014	Matrix	k-S						Weight: 248 lb	FT = 20%
UMBER-					BRACING-					·	
OP CHORD 2x4 SP	No.2 or 2x4 SPF No.2				TOP CHOR	D	Structu	ral wood	sheathing d	irectly applied or 6-0-0 of	oc purlins,
BOT CHORD 2x4 SP	No.2 or 2x4 SPF No.2						except	end verti	cals.		•
VEBS 2x4 SP	No.3				BOT CHOR	D	Rigid c	eilina dire	ectly applied	or 10-0-0 oc bracing.	
THERS 2x4 SP	No.2 or 2x4 SPF No.2				WEBS		•	at midpt		13-34. 12-35. 14-33	
SLIDER Left 2x4	4 SP No.3 1-6-6										

REACTIONS. All bearings 35-3-0.

(lb) - Max Horz 2=144(LC 14)

Max Uplift All uplift 100 lb or less at joint(s) 24, 35, 36, 37, 39, 40, 41, 42, 43, 33, 32, 31, 29, 28, 27, 26,

2 except 25=-153(LC 11) Max Grav All reactions 250 lb or le

All reactions 250 lb or less at joint(s) 24, 34, 35, 36, 37, 39, 40, 41, 42, 43, 33, 32, 31, 29, 28, 27, 26, 25, 2

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

TOP CHORD 11-12=-111/260, 12-13=-124/296, 13-14=-124/296, 14-15=-111/260

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

5) Gable requires continuous bottom chord bearing

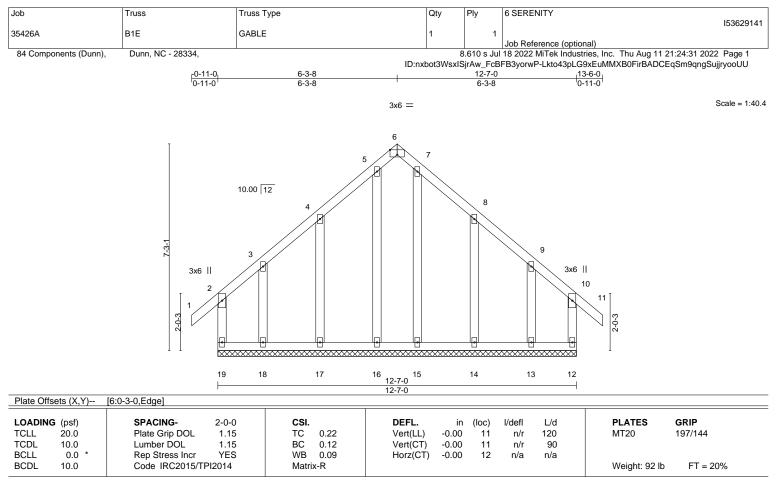
6) Gable studs spaced at 2-0-0 oc.

- 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 3-6-0 tall by 2-0-0 wide
- will fit between the bottom chord and any other members.

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 24, 35, 36, 37, 39, 40, 41, 42, 43, 33, 32, 31, 29, 28, 27, 26, 2 except (jt=lb) 25=153.



ENGINEERING BY EREENCO A MITek Affiliate 818 Soundside Road Edenton, NC 27932



LUMBER-

 TOP CHORD
 2x4 SP No.2 or 2x4 SPF No.2

 BOT CHORD
 2x4 SP No.2 or 2x4 SPF No.2

 WEBS
 2x4 SP No.3

 OTHERS
 2x4 SP No.2 or 2x4 SPF No.2

BRACING-TOP CHORD

BOT CHORD

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

REACTIONS. All bearings 12-7-0.

(lb) - Max Horz 19=182(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 17, 14 except 19=-136(LC 6), 12=-130(LC 7), 18=-140(LC 7), 13=-135(LC 6)

Max Grav All reactions 250 lb or less at joint(s) 19, 12, 16, 17, 18, 15, 14, 13

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 ; 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) 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) 17, 14 except (jt=lb) 19=136, 12=130, 18=140, 13=135.





Job	Truss	Truss Type	Qty	Ply	6 SERENITY		
35426A	B2G	Common Girder	1	2			153629142
84 Components (Dunn),	Dunn, NC - 28334,			.610 s Ju	I 18 2022 MiTek Indus	stries. Inc. Thu Aug 11 2	1:24:32 2022 Page 1
		3-3-8 6-3	3-8 1 9-3-8	w_FcBFB ────	12-7-0	T35WWxjlkmxOPjP9e3S	VX8wv6dGFHyooUT
		3-3-8 3-0		·	3-3-8		0
			4x6				Scale = 1:43.2
	Т		3				
		10.00 12					
		3x6 4		3	x6 🔨		
		2					
	7-3-1				4x8 🕅		
	4x8 🖉		$\langle //$		5		
	I T		$\langle //$			T	
	2-0-3					2-0-3	
			<u>_</u>	_#		5-6	
			8 13	7	14	1	
		10 6 6x8 =	7×10 =	, 6x8	= ⁶ 3x6		
	ł	<u>3-3-8</u> 6-3 3-3-8 3-0			12-7-0 3-3-8		
Plate Offsets (X,Y)	[7:0-3-8,0-4-4], [8:0-5-0,0-4-4], [9				5-5-0		
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in		l/defl L/d	PLATES	GRIP
TCLL 20.0 TCDL 10.0	Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.14 BC 0.52	Vert(LL) -0.02 Vert(CT) -0.05	7-8	>999 240 >999 180	MT20	197/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr NO Code IRC2015/TPI2014	WB 0.41 Matrix-MS	Horz(CT) 0.01	6	n/a n/a	Weight: 214 lb	FT = 20%
LUMBER-			BRACING-				
BOT CHORD 2x6 SP			TOP CHORD	except	end verticals.	directly applied or 6-0-0	oc purlins,
	No.2 or 2x4 SPF No.2 *Except* 6: 2x6 SP No.2		BOT CHORD	Rigid ce	0 7 11	l or 10-0-0 oc bracing.	
REACTIONS. (size	e) 10=0-5-8, 6=0-5-8					UNITH C	uun.
	orz 10=-162(LC 23) olift 10=-215(LC 9), 6=-212(LC 8)	1				TH C	ARO
Max G	rav 10=3972(LC 1), 6=3915(LC 1)				FES	AL B22
()	Comp./Max. Ten All forces 250 3316/221, 2-3=-2794/240, 3-4=-2				4	July -	All.
5-6=-3	3558/209 187/2494, 7-8=-126/2495					SE	AL 🚦
WEBS 3-8=-2	245/3316, 4-8=-681/128, 4-7=-82 -132/2723	/759, 2-8=-680/128, 2-9=-82/75	8, 1-9=-131/2708,			0363	322 🕴 🗄
NOTES-	152/2125						ALLE
1) 2-ply truss to be con	nected together with 10d (0.131")					A Willing	IEE ER III
Bottom chords conne	ed as follows: 2x4 - 1 row at 0-9-0 ected as follows: 2x6 - 2 rows sta		-9-0 oc.			111, A. (GILD
2) All loads are conside	follows: 2x4 - 1 row at 0-9-0 oc. ered equally applied to all plies, e			ASE(S) :	section. Ply to		T. C. and
	e been provided to distribute only loads have been considered for		s otherwise indicated.				
	ult=120mph Vasd=95mph; TCDL tilever left and right exposed ; end				,		
,	designed for a 10.0 psf bottom ch n designed for a live load of 20.0p			3-0 tall bγ	/ 2-0-0 wide		
will fit between the be	ottom chord and any other memb connection (by others) of truss to	ers.	· ·				
10=215, 6=212.	onnection device(s) shall be provi		,	. ,	,		
2-2-12, 1383 lb dowr	n and 89 lb up at 4-2-12, 1383 lb	down and 89 lb up at 6-2-12, a	ind 1383 lb down and 89	lb up at	8-2-12, and		
others.	b lb up at 10-2-12 on bottom chor	a. The design/selection of SUCh	r connection device(s) IS	ine respo			
						Augu	st 16,2022





Job	Truss	Truss Type	Qty	Ply	6 SERENITY		
254264	DOC.	Common Cirdor	1		153629142		
35426A	B2G	Common Girder	1.1	2	Job Reference (optional)		
84 Components (Dunn),	Dunn, NC - 28334,		8		18 2022 MiTek Industries, Inc. Thu Aug 11 21:24:33 2022 Page 2		
		ID:nxbot3WsxlSjrAw_FcBFB3yorwP-H7?ZVIrconBy7gWvJRHAxcGau1OhE_O48mNqojyooUS					

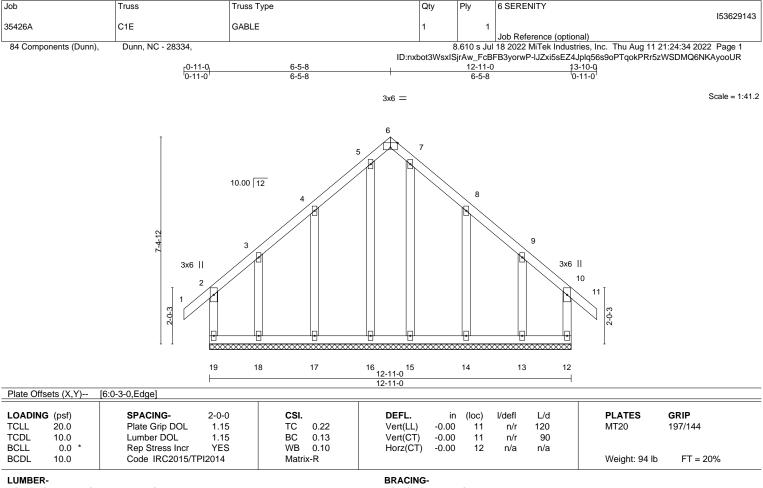
LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-3=-60, 3-5=-60, 6-10=-20

Concentrated Loads (lb) Vert: 8=-1383(F) 11=-1383(F) 12=-1383(F) 13=-1383(F) 14=-1383(F)





 TOP CHORD
 2x4 SP No.2 or 2x4 SPF No.2

 BOT CHORD
 2x4 SP No.2 or 2x4 SPF No.2

 WEBS
 2x4 SP No.3

 OTHERS
 2x4 SP No.2 or 2x4 SPF No.2

BRACING-TOP CHORD

BOT CHORD

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

REACTIONS. All bearings 12-11-0.

(lb) - Max Horz 19=-185(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 17, 14 except 19=-127(LC 6), 12=-121(LC 7), 18=-135(LC 7), 13=-130(LC 6)

Max Grav All reactions 250 lb or less at joint(s) 19, 12, 16, 17, 18, 15, 14, 13

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 ; 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) 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.

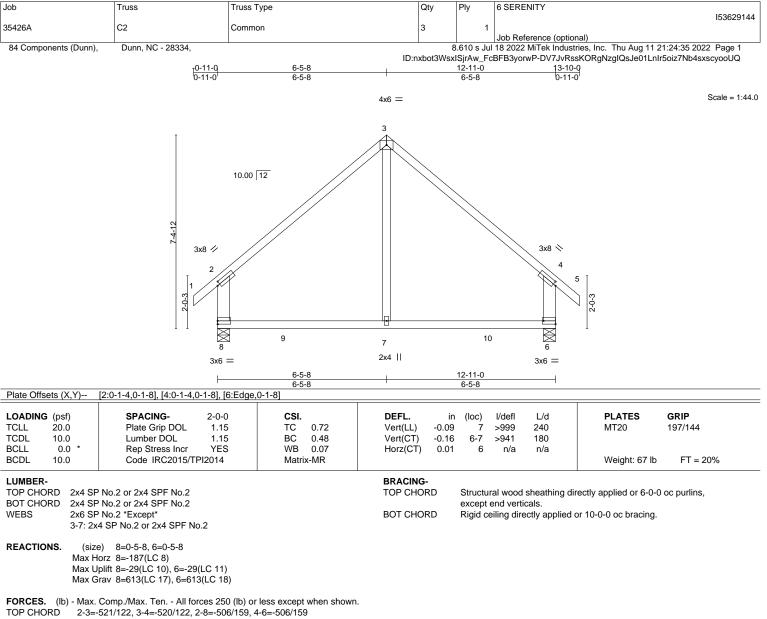
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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) 17, 14 except (jt=lb) 19=127, 12=121, 18=135, 13=130.



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- BOT CHORD 7-8=-18/334, 6-7=-18/334
- WEBS 3-7=0/310

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; end vertical left and right exposed; C-C for members and former \$\u00e9 MWFDS (envelope) + 0.00

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

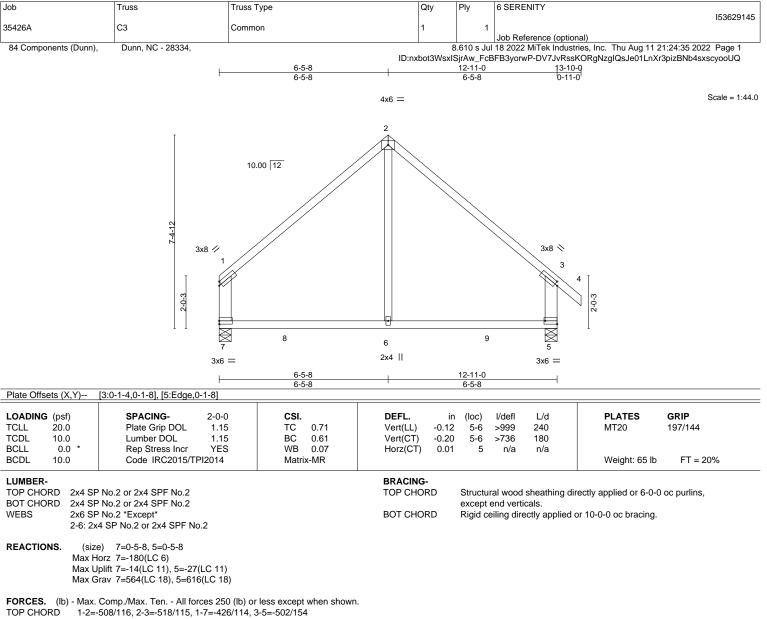
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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, with BCDL = 10.0psf.

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







- 6-7=-18/333, 5-6=-18/333
- BOT CHORD
- WEBS 2-6=0/296

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

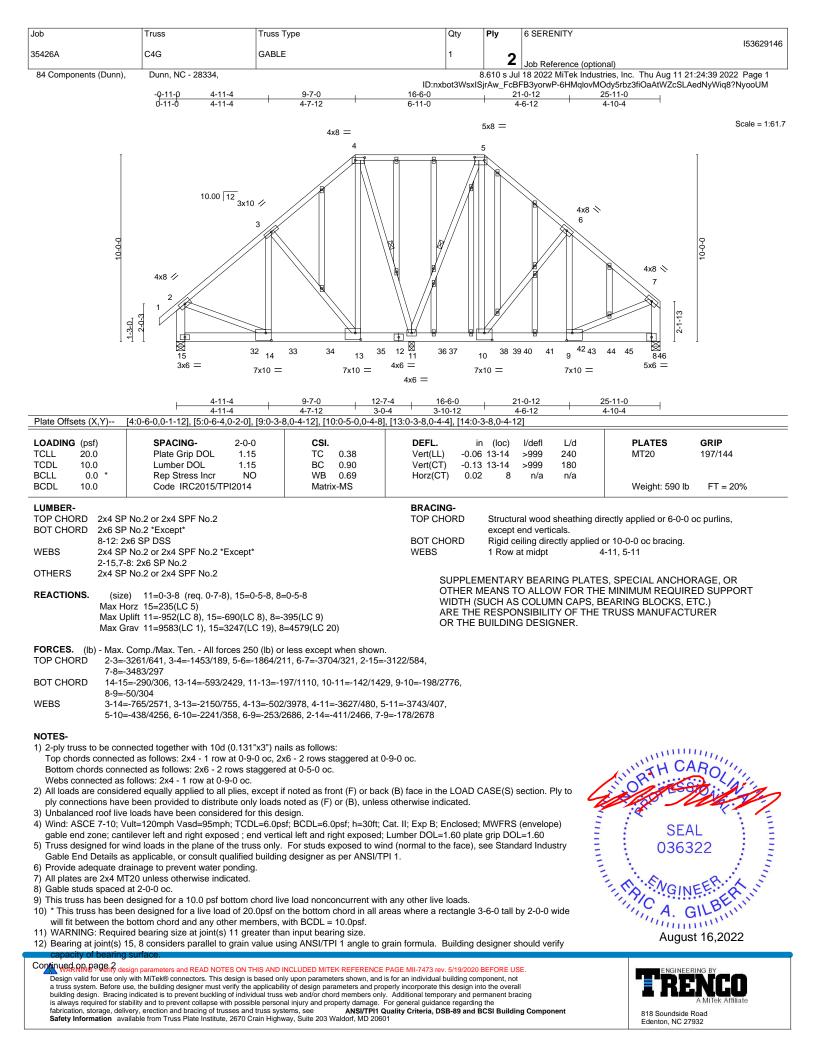
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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, with BCDL = 10.0psf.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 5.







Job	Truss	Truss Type	Qty	Ply	6 SERENITY
					153629146
35426A	C4G	GABLE	1	2	
					Job Reference (optional)
84 Components (Dunn),	Dunn, NC - 28334,		8	3.610 s Jul	18 2022 MiTek Industries, Inc. Thu Aug 11 21:24:39 2022 Page 2
		ID:nxt	oot3WsxIS	jrAw_FcBl	B3yorwP-6HMqlovMOdy5rbz3fiOaAtWZcSLAedNyWiq8?NyooUM

NOTES-

13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=952, 15=690, 8=395.

14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1853 lb down and 965 lb up at 4-1-8, 1326 lb down and 40 lb up at 6-2-4, 1327 lb down and 66 lb up at 8-2-4, 1326 lb down and 81 lb up at 10-2-4, 1326 lb down and 81 lb up at 12-2-4, 1333 lb down and 81 lb up at 14-2-4, 41 lb down and 55 lb up at 14-9-4, 1333 lb down and 81 lb up at 16-2-4, 41 lb down and 55 lb up at 14-9-4, 1333 lb down and 81 lb up at 16-2-4, 41 lb down and 55 lb up at 16-9-4, 1333 lb down and 81 lb up at 18-2-4, 41 lb down and 55 lb up at 12-2-14, 1333 lb down and 81 lb up at 16-2-4, 41 lb down and 55 lb up at 12-2-14, 1333 lb down and 81 lb up at 18-9-4, 41 lb down and 55 lb up at 12-2-14, 1333 lb down and 81 lb up at 18-9-4, 41 lb down and 63 lb up at 19-2-14, 1333 lb down and 81 lb up at 20-2-4, 41 lb down and 63 lb up at 21-2-14, 1333 lb down and 81 lb up at 22-2-4, 41 lb down and 63 lb up at 23-2-14, and 1333 lb down and 81 lb up at 24-2-4, and 44 lb down and 58 lb up at 25-2-14 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

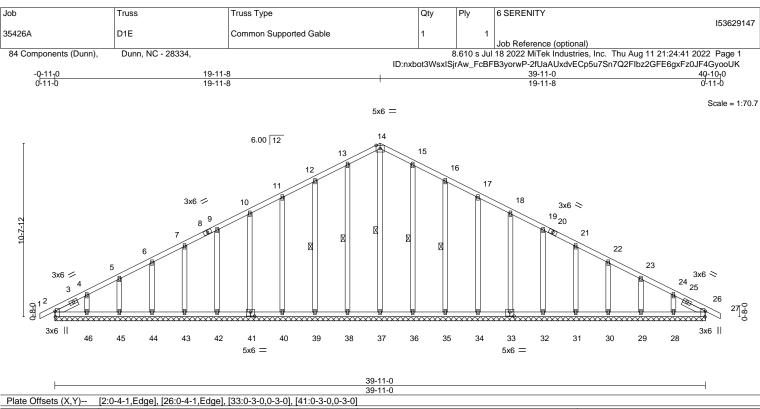
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-2=-60, 2-4=-60, 4-5=-60, 5-7=-60, 8-15=-20

Concentrated Loads (lb)

Vert: 12=-1326(B) 10=-1333(B) 9=-29(F) 32=-1853(B) 33=-1326(B) 34=-1327(B) 35=-1326(B) 36=-1333(B) 39=-1333(B) 41=-29(F) 42=-1333(B) 43=-1333(B) 44=-29(F) 45=-1333(B) 46=-34(F)





LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 2	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	-0.00	26	n/r	120	MT20	197/144
TCDL 1	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	26	n/r	90		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.01	26	n/a	n/a		
BCDL 1	0.0	Code IRC2015/TI	PI2014	Matri	ix-S						Weight: 285 lb	FT = 20%
LUMBER- TOP CHORE BOT CHORE OTHERS SLIDER	D 2x4 SP 2x4 SP	No.2 or 2x4 SPF No.2 No.2 or 2x4 SPF No.2 No.2 or 2x4 SPF No.2 \$ SP No.3 1-6-7, Right 2	x4 SP No.3 1-6-7			BRACING- TOP CHOF BOT CHOF WEBS	RD	Rigid c		ectly applied	irectly applied or 6-0-0 o or 10-0-0 oc bracing. 14-37, 13-38, 12-39, 15	

REACTIONS.

All bearings 39-11-0. Max Horz 2=-148(LC 11) (lb) -

> Max Uplift All uplift 100 lb or less at joint(s) 2, 38, 39, 40, 41, 42, 43, 44, 45, 46, 36, 35, 34, 33, 32, 31, 30, 29, 28

All reactions 250 lb or less at joint(s) 2, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 36, 35, 34, 33, Max Grav 32, 31, 30, 29, 28, 26

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

TOP CHORD 13-14=-103/259, 14-15=-103/259

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 ; 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.

All plates are 2x4 MT20 unless otherwise indicated.

5) Gable requires continuous bottom chord bearing.

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

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

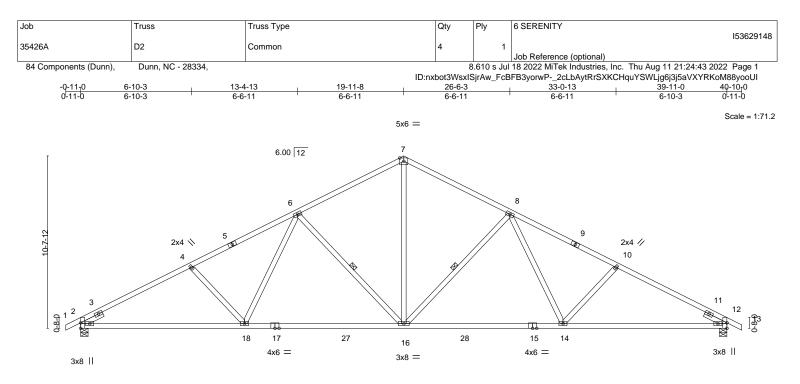
* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 8) will fit between the bottom chord and any other members.

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 38, 39, 40, 41, 42, 43, 44, 45, 46, 36, 35, 34, 33, 32, 31, 30, 29, 28.



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818 Soundside Road Edenton, NC 27932



	10-1-8	<u>19-11-8</u>	29-9-8	+ <u>39-11-0</u>
	10-1-8	9-10-0	9-10-0	10-1-8
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2015/TPI2014	TC 0.89 BC 0.90	DEFL. in (loc) l/defl L Vert(LL) -0.36 16-18 >999 24 Vert(CT) -0.62 16-18 >771 18 Horz(CT) 0.13 12 n/a n	30

LUMBER-

TOP CHORD	2x4 SP No.2 or 2x4 SPF No.2 *Except*
	1-5,9-13: 2x4 SP No.1
BOT CHORD	2x4 SP No.1
WEBS	2x4 SP No.2 or 2x4 SPF No.2
SLIDER	Left 2x4 SP No.3 1-6-0, Right 2x4 SP No.3 1-6-0

BRACING-TOP CHORD BOT CHORD

WEBS

Structural wood sheathing directly applied or 2-2-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing. 1 Row at midpt 8-16, 6-16

REACTIONS. (size) 2=0-5-8, 12=0-5-8 Max Horz 2=148(LC 10) Max Uplift 2=-103(LC 10), 12=-103(LC 11) Max Grav 2=1652(LC 1), 12=1652(LC 1)

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

- TOP CHORD 2-4=-2783/482, 4-6=-2554/468, 6-7=-1851/427, 7-8=-1851/427, 8-10=-2554/468, 10-12=-2783/482
- BOT CHORD
 2-18=-319/2409, 16-18=-190/2035, 14-16=-190/2035, 12-14=-319/2409

 WEBS
 7-16=-226/1277, 8-16=-705/233, 8-14=-14/494, 10-14=-307/183, 6-16=-705/233,
- WEBS 7-16=-226/1277, 8-16=-705/233, 8-14=-14/494, 10-14=-307/183, 6-16=-705/23 6-18=-14/494, 4-18=-307/183

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 ; 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

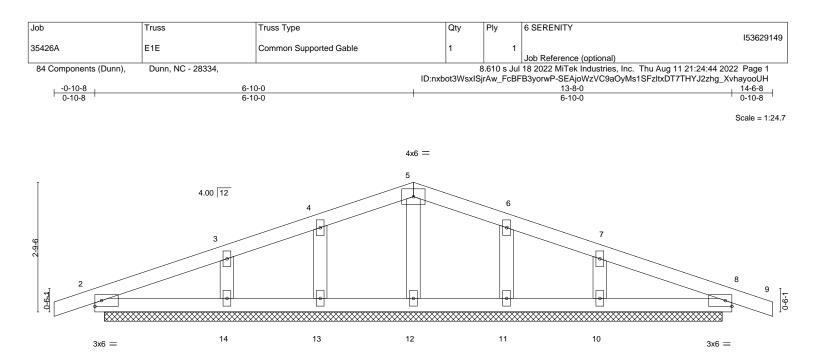
- 3) All plates are 3x6 MT20 unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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) except (jt=lb) 2=103, 12=103.







0-2-8			13-5-8				1	1
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.08	Vert(LL)	0.00 8	n/r	120	MT20	197/144
CDL 10.0	Lumber DOL 1.15	BC 0.06	Vert(CT)	0.00 9	n/r	90		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Horz(CT)	0.00 8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S					Weight: 55 lb	FT = 20%

BOT CHORD

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

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 OTHERS 2x4 SP No.3

REACTIONS. All bearings 13-3-0.

(lb) - Max Horz 2=37(LC 10)

- Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 13, 14, 11, 10
- Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

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

NOTES-

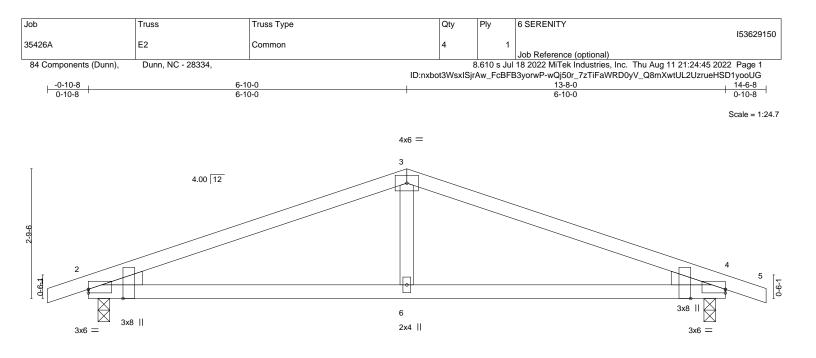
1) Unbalanced roof live loads have been considered for this design.

- 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 ; 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) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 13, 14, 11, 10.



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0 <u>-2-8</u> 0-2-8	<u>6-10-0</u> 6-7-8			13-5-8 6-7-8	13-8 ₁ 0 0-2-8
Plate Offsets (X,Y)	[2:0-0-0,0-0-15], [2:0-2-6,Edge], [4:Edge	e,0-0-15], [4:0-2-6,Edge]			
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2015/TPI2014	CSI. TC 0.52 BC 0.53 WB 0.11 Matrix-MS	DEFL. in Vert(LL) -0.07 Vert(CT) -0.13 Horz(CT) 0.01		PLATES GRIP MT20 197/144 Weight: 51 lb FT = 20%
BOT CHORD 2x4 SF WEBS 2x4 SF WEDGE Left: 2x4 SP No.3 , Rig			BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dir Rigid ceiling directly applied o	rectly applied or 5-0-8 oc purlins. or 10-0-0 oc bracing.
Max U	lorz 2=37(LC 14) Jplift 2=-69(LC 6), 4=-69(LC 7) Grav 2=599(LC 1), 4=599(LC 1)				
TOP CHORD 2-3= BOT CHORD 2-6=	Comp./Max. Ten All forces 250 (lb) or -951/189, 3-4=-951/189 -100/855, 4-6=-100/855 0/292	less except when shown.			
,	e loads have been considered for this de	0			

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

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

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) 2, 4.





Job	Truss	Truss Type	C	ty	Ply	6 SERENITY		15000015
5426A	J1	Jack-Open	9		1			15362915
			0			Job Reference (op	tional)	
84 Components (Dunn),	Dunn, NC - 28334,			8	.610 s J	ul 18 2022 MiTek Ind	ustries, Inc. Thu Aug 11	21:24:46 2022 Page 1
		0-11-0 .	ID:nxbc 4-0-0	t3WsxIS	sjrAw_⊢o	BFB3yorwP-PdHTDI	3?lkmq6Bg0PZg0DyMlhZ	Hsinyy_7H0011yooUF
		+-0-11-0 	4-0-0					
								Scale = 1:29
					3			Scale = 1.23
		T		,		Ī		
						T		
		10.0	0 12	/ /				
		1010						
		m						
		연 7 3x6				0-6 5-4-3		
		2				5-4-		
		2-0-3						
		5-0						
			1		M			
					N			
		Ŕ						
		5			4			
		4x6 =						
		1	4-0-0					
			4-0-0		1			
LOADING (psf)	SPACING- 2	-0-0 CSI.	DEFL.	in	(loc)	l/defl L/d	PLATES	GRIP
TCLL 20.0		1.15 TC 0.59	Vert(LL)	0.03		>999 240	MT20	197/144
TCDL 10.0		1.15 BC 0.39	Vert(CT)	-0.03		>999 180		
BCLL 0.0 * BCDL 10.0	Rep Stress Incr Code IRC2015/TPI20	YES WB 0.00 014 Matrix-MR	Horz(CT)	-0.10	3	n/a n/a	Weight: 18 lb	FT = 20%
10.0							troigit. To b	11-2070
LUMBER-			BRACING		•			
	o.2 or 2x4 SPF No.2 o.2 or 2x4 SPF No.2		TOP CHO	RD.		Iral wood sheathing end verticals.	directly applied or 4-0-0	0 oc purlins,
WEBS 2x4 SP N			BOT CHO	RD			ed or 10-0-0 oc bracing.	
					3.4	5 · · · · · · · · · · · · · · · · · · ·		
REACTIONS. (size)	5=0-5-8, 3=Mechanical, z 5=109(LC 10)	4=Mechanical						

Max Horz 5=109(LC 10) Max Uplift 3=-97(LC 10), 4=-14(LC 10)

Max Grav 5=224(LC 1), 3=120(LC 17), 4=73(LC 3)

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

NOTES-

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

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

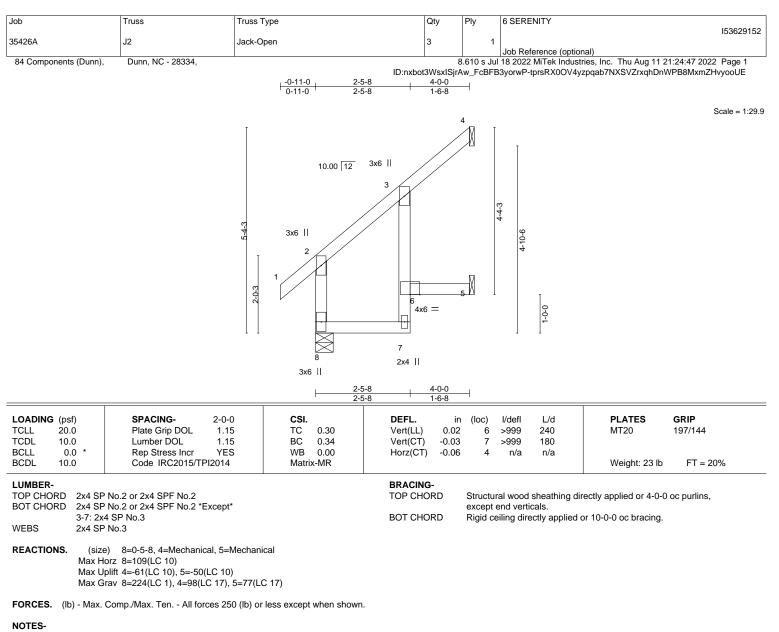
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4.







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

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

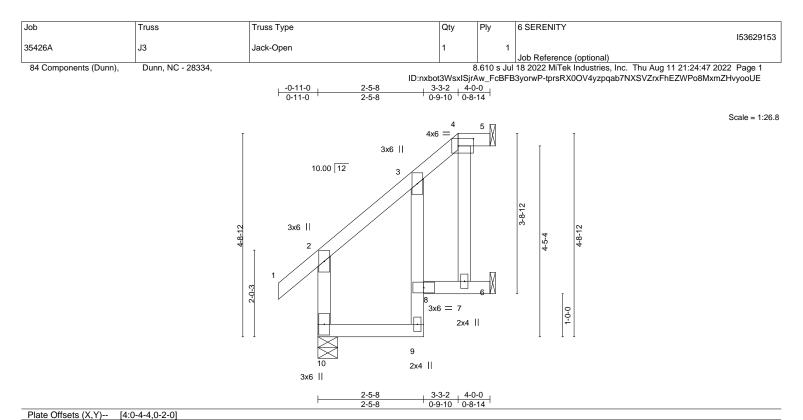
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

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







LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0		15 TC 0.27 15 BC 0.29 IS WB 0.03	DEFL. ir Vert(LL) 0.02 Vert(CT) -0.02 Horz(CT) -0.06	8 9	>999	L/d 240 180 n/a	PLATES MT20 Weight: 28 lb	GRIP 197/144 FT = 20%
	P No.2 or 2x4 SPF No.2 P No.2 or 2x4 SPF No.2 *Excer	+*	BRACING- TOP CHORD		ural wood	0	irectly applied or 4-0-0	oc purlins,

 TOP CHORD
 2x4 SP No.2 or 2x4 SPF No.2
 TOP CHORD
 Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals.

 BOT CHORD
 2x4 SP No.2 or 2x4 SPF No.2 *Except*
 asymptotic constraints
 BOT CHORD
 Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals.

 WEBS
 2x4 SP No.3
 BOT CHORD
 Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-5-8, 5=Mechanical, 6=Mechanical Max Horz 10=93(LC 7)

Max Uplift 5=-11(LC 7), 6=-72(LC 10) Max Grav 10=224(LC 1), 5=32(LC 1), 6=129(LC 17)

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 ; 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) Provide adequate drainage to prevent water ponding.

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

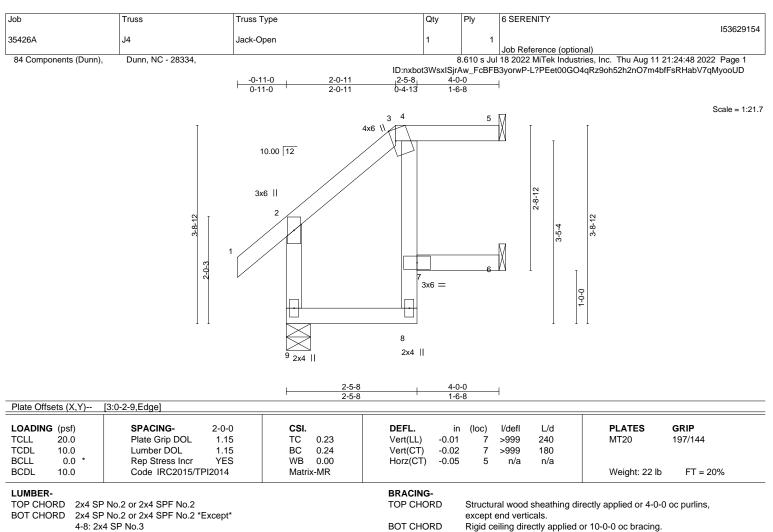
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6.







WEBS

......

REACTIONS. (size) 9=0-5-8, 5=Mechanical, 6=Mechanical Max Horz 9=74(LC 7)

2x4 SP No.3

Max Uplift 5=-28(LC 7), 6=-18(LC 10) Max Grav 9=224(LC 1), 5=87(LC 1), 6=60(LC 3)

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 ; 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) Provide adequate drainage to prevent water ponding.

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

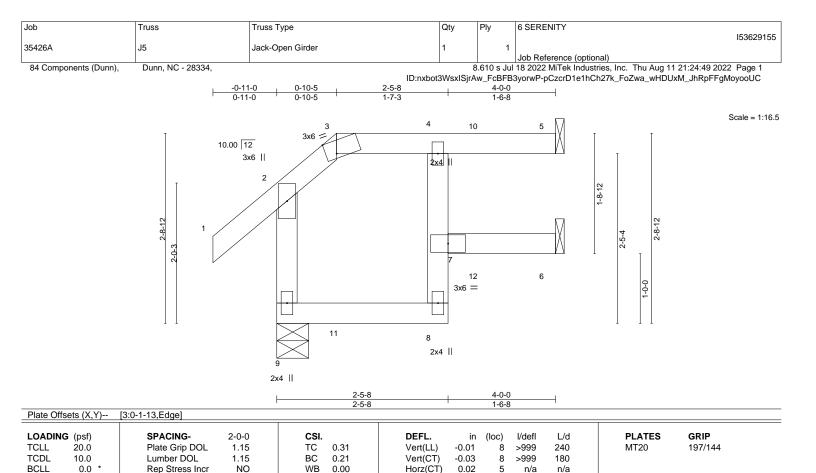
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6.







BRACING-

TOP CHORD

BOT CHORD

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

BCDL

WEBS

LUMBER-

TOP CHORD

BOT CHORD

REACTIONS.

10.0

NOTES-

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

2x4 SP No.2 or 2x4 SPF No.2

4-8: 2x4 SP No.3

Max Horz 9=56(LC 5)

2x4 SP No.3

(size)

2x4 SP No.2 or 2x4 SPF No.2 *Except*

Max Uplift 9=-34(LC 8), 5=-24(LC 5)

Code IRC2015/TPI2014

9=0-5-8, 5=Mechanical, 6=Mechanical

Max Grav 9=349(LC 1), 5=110(LC 20), 6=101(LC 3)

 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; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-MR

3) Provide adequate drainage to prevent water ponding.

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

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

8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 4 lb down and 4 lb up at 0-10-5, and 36 lb down and 41 lb up at 2-11-1 on top chord, and 144 lb down and 58 lb up at 0-11-1, and 83 lb down at 2-11-1 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-2=-60, 2-3=-60, 3-5=-60, 8-9=-20, 6-7=-20

Concentrated Loads (lb)

Vert: 10=41(B) 11=-144(B) 12=-78(B)



FT = 20%

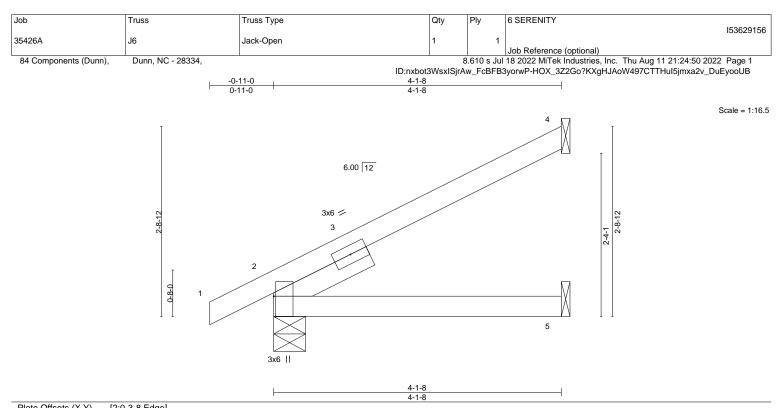
Weight: 20 lb

Structural wood sheathing directly applied or 4-0-0 oc purlins,

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

except end verticals.





LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.22	Vert(LL) 0.02 5-8 >999 240 MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.17	Vert(CT) -0.03 5-8 >999 180
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.01 2 n/a n/a
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MP	Weight: 17 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

 TOP CHORD
 2x4 SP No.2 or 2x4 SPF No.2

 BOT CHORD
 2x4 SP No.2 or 2x4 SPF No.2

 SLIDER
 Left 2x4 SP No.3 1-6-0

LIDER LEIT 2X4 SP NO.3 1-6-0

REACTIONS. (size) 4=Mechanical, 2=0-5-8, 5=Mechanical

Max Horz 2=80(LC 10) Max Uplift 4=-47(LC 10), 2=-12(LC 10)

Max Grav 4=104(LC 1), 2=224(LC 1), 5=73(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) 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 ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

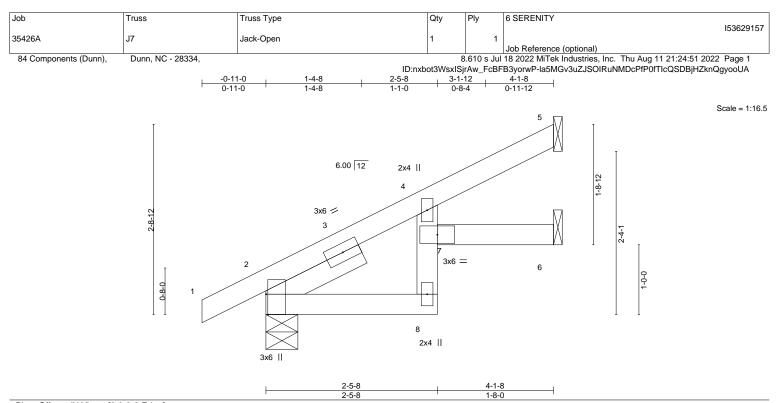
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.



Structural wood sheathing directly applied or 4-1-8 oc purlins.

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





LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.13	Vert(LL) -0.01 7 >999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.30	Vert(CT) -0.02 7 >999 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.01 6 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MR		Weight: 19 lb FT = 20%

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except* 4-8: 2x4 SP No.3 SLIDER Left 2x4 SP No.3 1-6-0

TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 4-1-8 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=Mechanical, 2=0-5-8, 6=Mechanical Max Horz 2=80(LC 10) Max Uplift 5=-32(LC 10), 2=-12(LC 10), 6=-8(LC 10) Max Grav 5=85(LC 1), 2=224(LC 1), 6=73(LC 3)

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

NOTES-

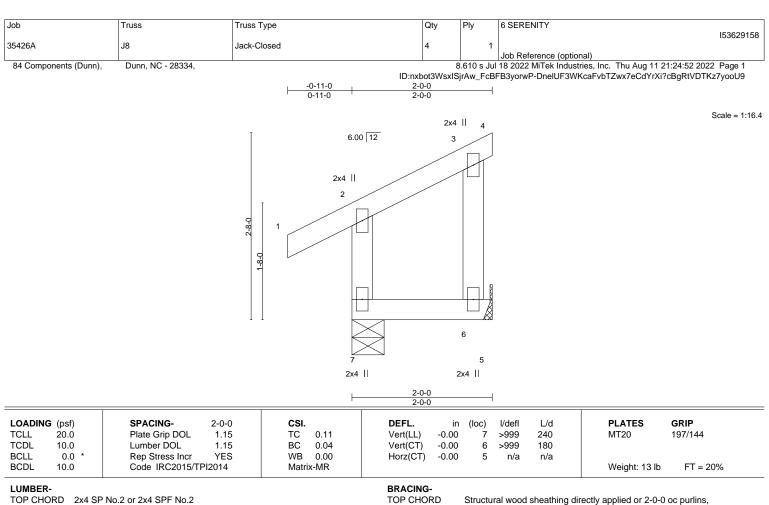
- 1) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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) Refer to girder(s) for truss to truss connections.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2, 6.







BOT CHORD

except end verticals.

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

 TOP CHORD
 2x4 SP No.2 or 2x4 SPF No.2

 BOT CHORD
 2x4 SP No.2 or 2x4 SPF No.2

 WEBS
 2x4 SP No.3

REACTIONS. (size) 7=0-5-8, 5=Mechanical Max Horz 7=81(LC 7) Max Uplift 7=-18(LC 10), 5=-46(LC 7)

Max Grav 7=155(LC 1), 5=58(LC 17)

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

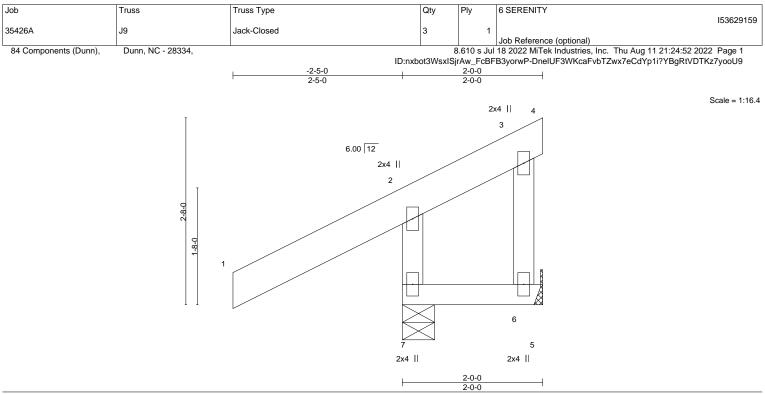
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 5.





LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	-0.00	7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.00	7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2	2014	Matri	x-MR						Weight: 19 lb	FT = 20%

LUMBER-

 TOP CHORD
 2x6 SP No.2

 BOT CHORD
 2x4 SP No.2 or 2x4 SPF No.2

 WEBS
 2x4 SP No.3

REACTIONS. (size) 7=0-5-8, 5=Mechanical Max Horz 7=110(LC 9) Max Uplift 7=-63(LC 10), 5=-62(LC 18) Max Grav 7=334(LC 1), 5=42(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-7=-317/242

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

- 2) 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) Refer to girder(s) for truss to truss connections.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 5.



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 MSIVTP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

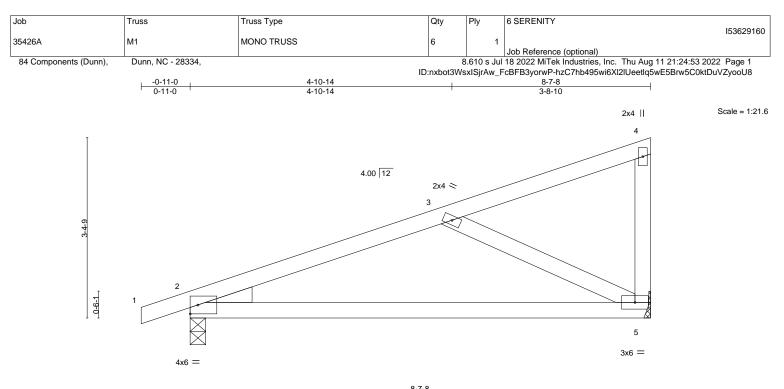


Edenton, NC 27932

BRACING-TOP CHORD

 Structural wood sheathing directly applied or 2-0-0 oc purlins, except end verticals.
 Bright epilled directly applied or 6.0.0 oc bracing

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.



			8-7-8			
LOADING (psf)	SPACING- 2-0-0	CSI. DEI		loc) l/defl L/d	PLATES	GRIP
TCLL 20.0 TCDL 10.0	Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.50 Ver	t(LL) -0.17	5-8 >605 240 5-8 >298 180	MT20	197/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2015/TPI2014	WB 0.16 Hor Matrix-MP	z(CT) 0.01	2 n/a n/a	weight: 39 lb	FT = 20%
LUMBER-		BD/	ACING-			

TOP CHORD	2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD	2x4 SP No.2 or 2x4 SPF No.2
WEBS	2x4 SP No.3
WEDGE	
Left [.] 2x4 SP No	0.3

TOP CHORD BOT CHORD

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

2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 5=Mechanical Max Horz 2=112(LC 9) Max Uplift 2=-60(LC 6), 5=-46(LC 10) Max Grav 2=397(LC 1), 5=336(LC 1)

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

2-3=-447/167 TOP CHORD BOT CHORD 2-5=-137/405

WEBS 3-5=-448/205

NOTES-

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

2) 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.

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

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



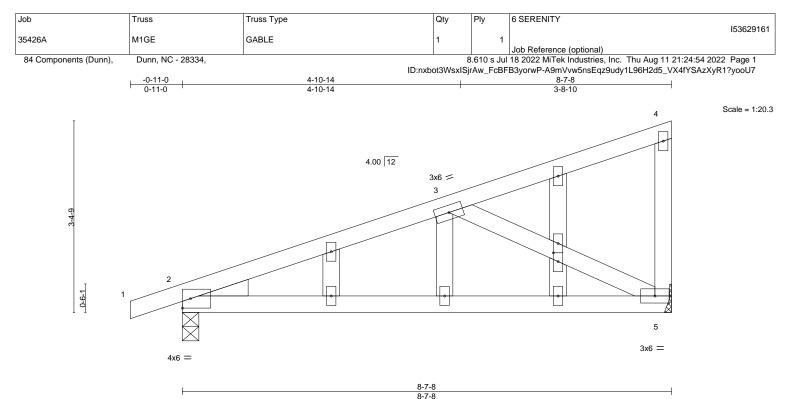


Plate Offsets (X,Y)	[8:0-1-14,0-1-0]	1			
OADING (psf)	SPACING- 2-0-0	CSI.	DEFL. i	n (loc) l/defl L/d	PLATES GRIP
CLL 20.0	Plate Grip DOL 1.15	TC 0.50	Vert(LL) -0.1	7 5-14 >605 240	MT20 197/144
CDL 10.0	Lumber DOL 1.15	BC 0.68	Vert(CT) -0.34	4 5-14 >298 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.16	Horz(CT) 0.0	1 2 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MP			Weight: 46 lb FT = 20%
UMBER-			BRACING-		
OP CHORD 2x4 SP	No.2 or 2x4 SPF No.2		TOP CHORD	Structural wood sheathing dir	ectly applied or 6-0-0 oc purlins,
OT CHORD 2x4 SP	No.2 or 2x4 SPF No.2			except end verticals.	
VEBS 2x4 SP	No.3		BOT CHORD	Rigid ceiling directly applied of	or 10-0-0 oc bracing.

 BOT CHORD
 2x4 SP No.2 of 2x4 SPF No.2

 WEBS
 2x4 SP No.3

 OTHERS
 2x4 SP No.3

 WEDGE
 X4 SP No.3

Left: 2x4 SP No.3

REACTIONS.	(size)	2=0-3-8, 5=Mechanical
	Max Horz	2=112(LC 9)
	Max Uplift	2=-60(LC 6), 5=-46(LC 10)
	Max Grav	2=397(LC 1), 5=336(LC 1)

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

- TOP CHORD
 2-3=-447/167

 BOT CHORD
 2-5=-137/405
- WEBS 3-5=-448/205

NOTES-

- 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 ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) All plates are 2x4 MT20 unless otherwise indicated.

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

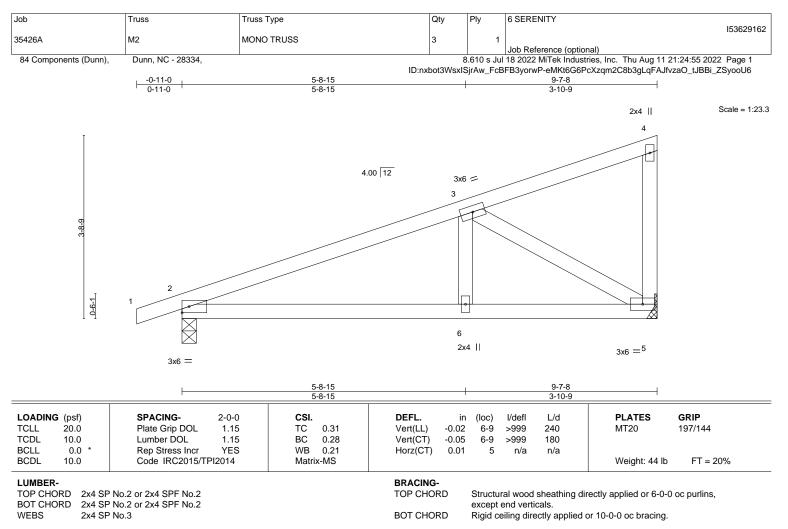
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.



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 MSIVTP11 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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Edenton, NC 27932



REACTIONS. (size) 2=0-3-8, 5=Mechanical Max Horz 2=124(LC 9) Max Uplift 2=-64(LC 6), 5=-52(LC 10) Max Grav 2=437(LC 1), 5=377(LC 1)

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

TOP CHORD 2-3=-569/126

BOT CHORD 2-6=-97/494, 5-6=-97/494

WEBS 3-5=-562/171

NOTES-

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

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

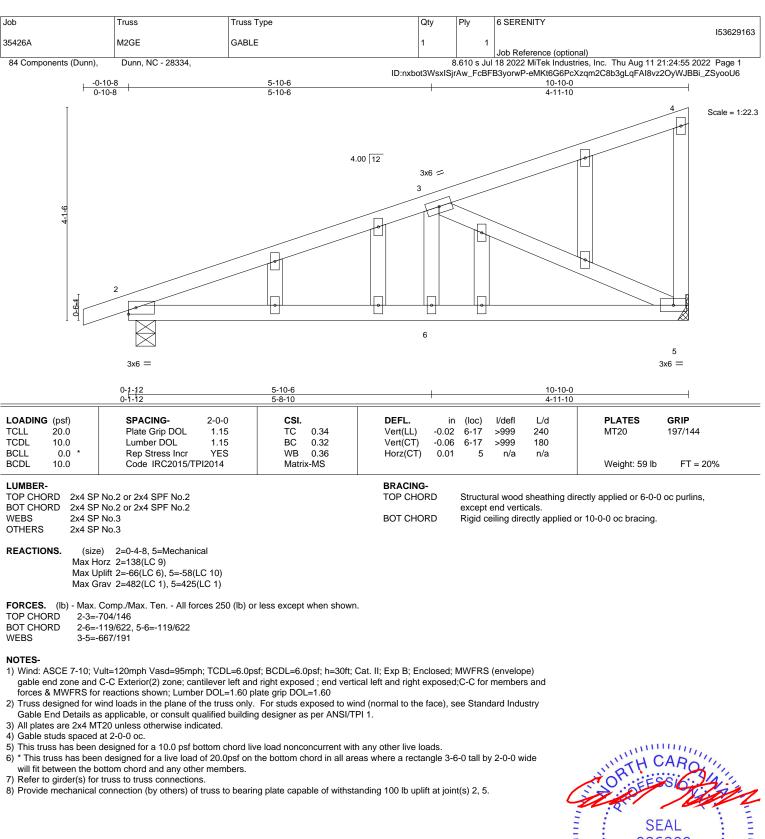
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

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



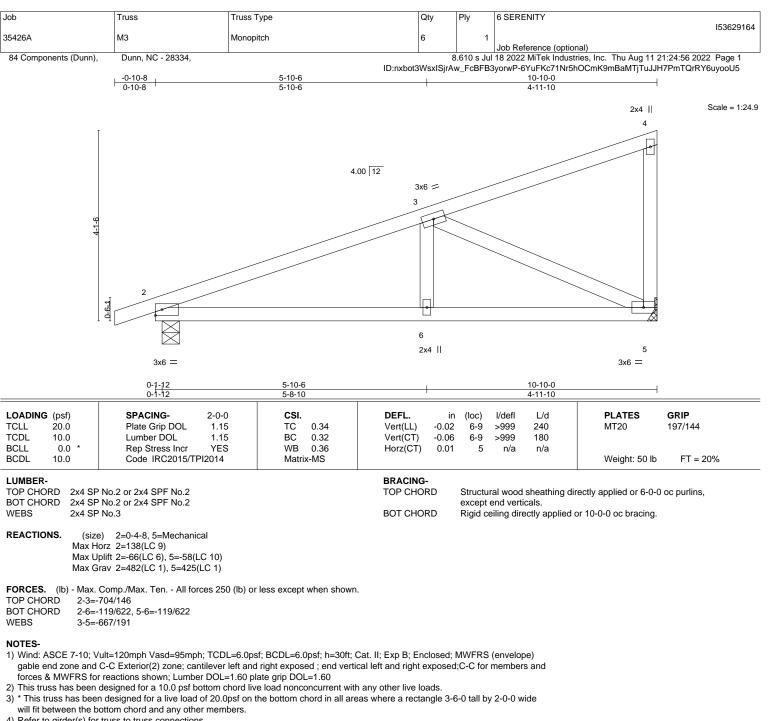






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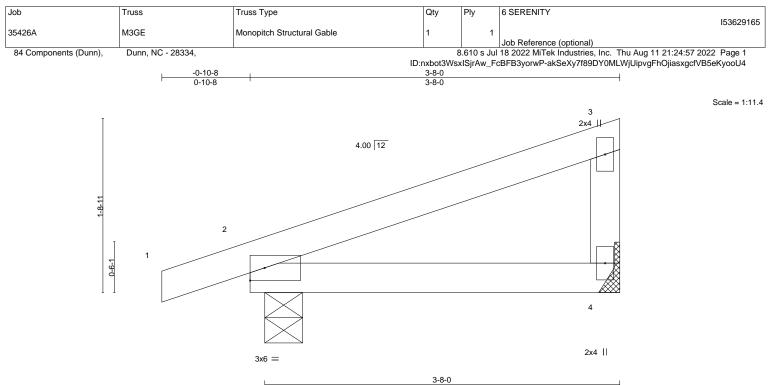


4) Refer to girder(s) for truss to truss connections

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







			3-6-4		
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP	
TCLL 20.0	Plate Grip DOL 1.15	TC 0.17	Vert(LL) -0.01 4-7 >999 240	MT20 197/144	
TCDL 10.0	Lumber DOL 1.15	BC 0.12	Vert(CT) -0.01 4-7 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 2 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MP		Weight: 14 lb FT = 20%	
LUMBER-			BRACING-		

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 WEBS 2x4 SP No.3

TOP CHORD Structural wood sheathing directly applied or 3-8-0 oc purlins, except end verticals.

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

REACTIONS. 4=Mechanical, 2=0-4-8 (size) Max Horz 2=52(LC 9) Max Uplift 4=-18(LC 10), 2=-43(LC 6) Max Grav 4=134(LC 1), 2=200(LC 1)

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

NOTES-

- 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 ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

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

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.

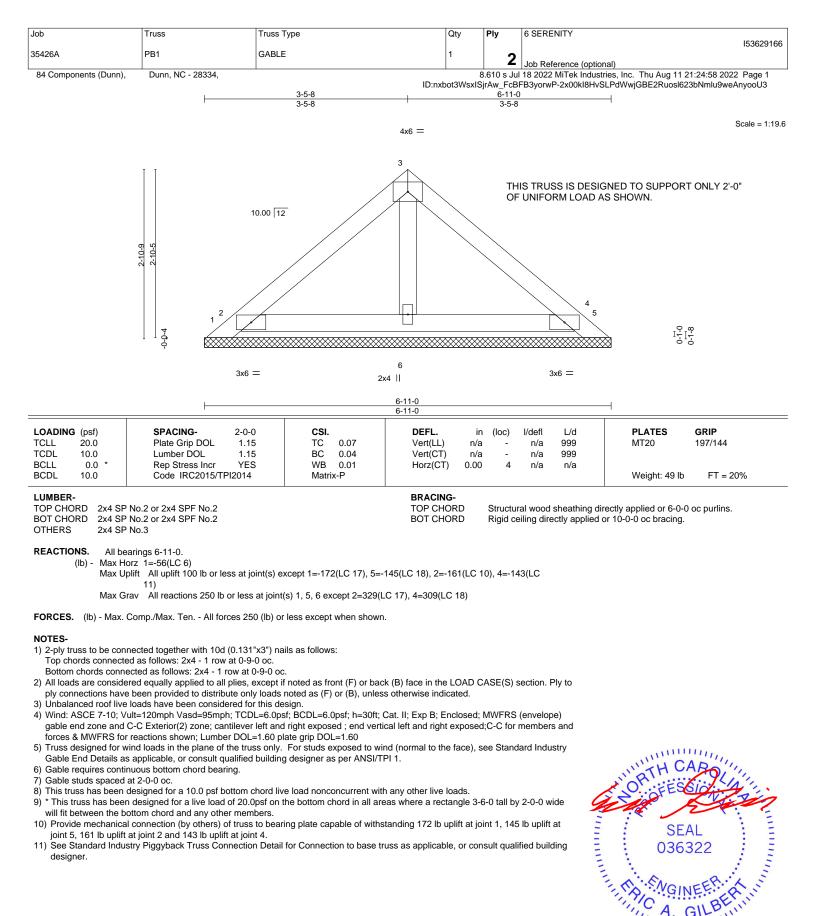
Refer to girder(s) for truss to truss connections.

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



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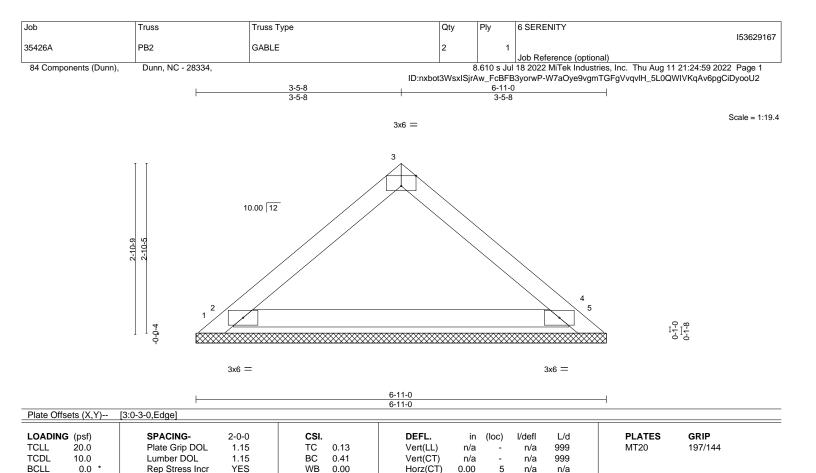
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Edenton, NC 27932

August 16,2022



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BCDL

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 BRACING-TOP CHORD BOT CHORD

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

Weight: 22 lb

REACTIONS. All bearings 6-11-0.

10.0

(lb) - Max Horz 1=-56(LC 6)

Max Uplift All uplift 100 lb or less at joint(s) except 1=-174(LC 17), 5=-146(LC 18), 2=-145(LC 10), 4=-120(LC 11) Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 2=412(LC 17), 4=391(LC 1)

Matrix-P

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

Code IRC2015/TPI2014

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

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

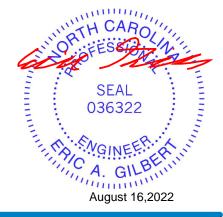
5) Gable studs spaced at 2-0-0 oc.

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

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.

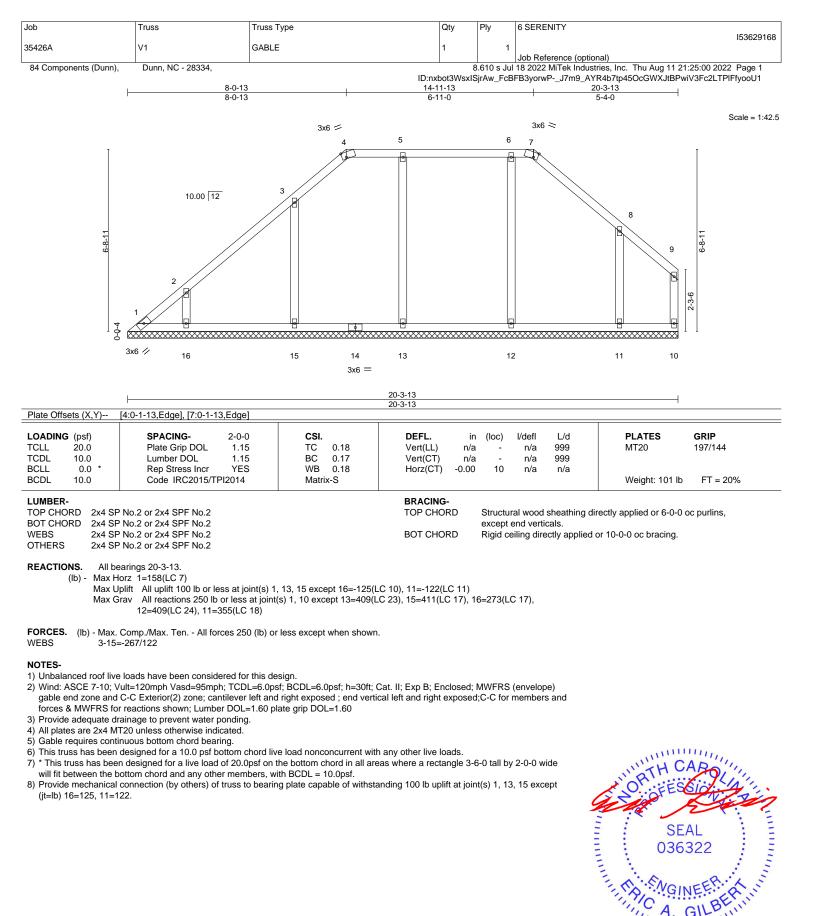
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 174 lb uplift at joint 1, 146 lb uplift at joint 5, 145 lb uplift at joint 2 and 120 lb uplift at joint 4.

 See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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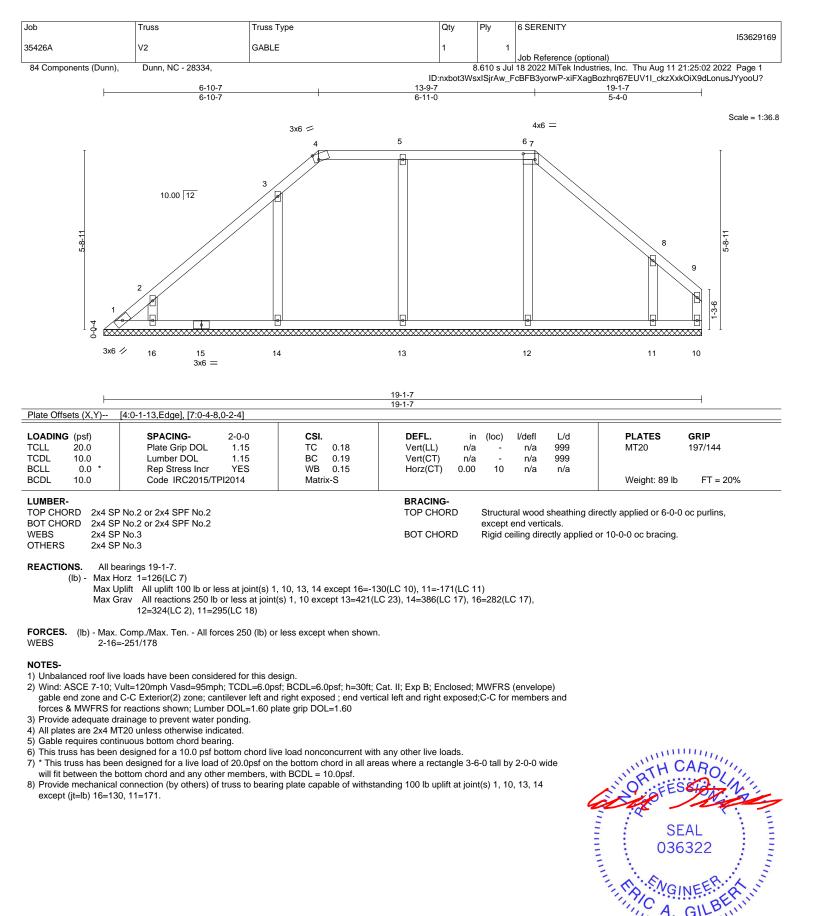
FT = 20%





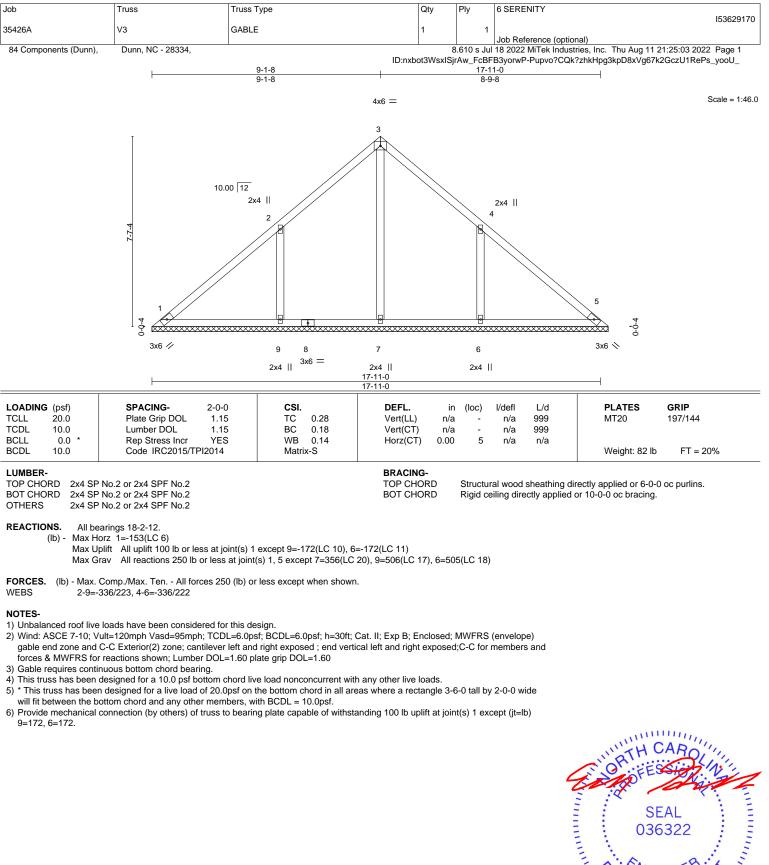
Edenton, NC 27932

August 16,2022



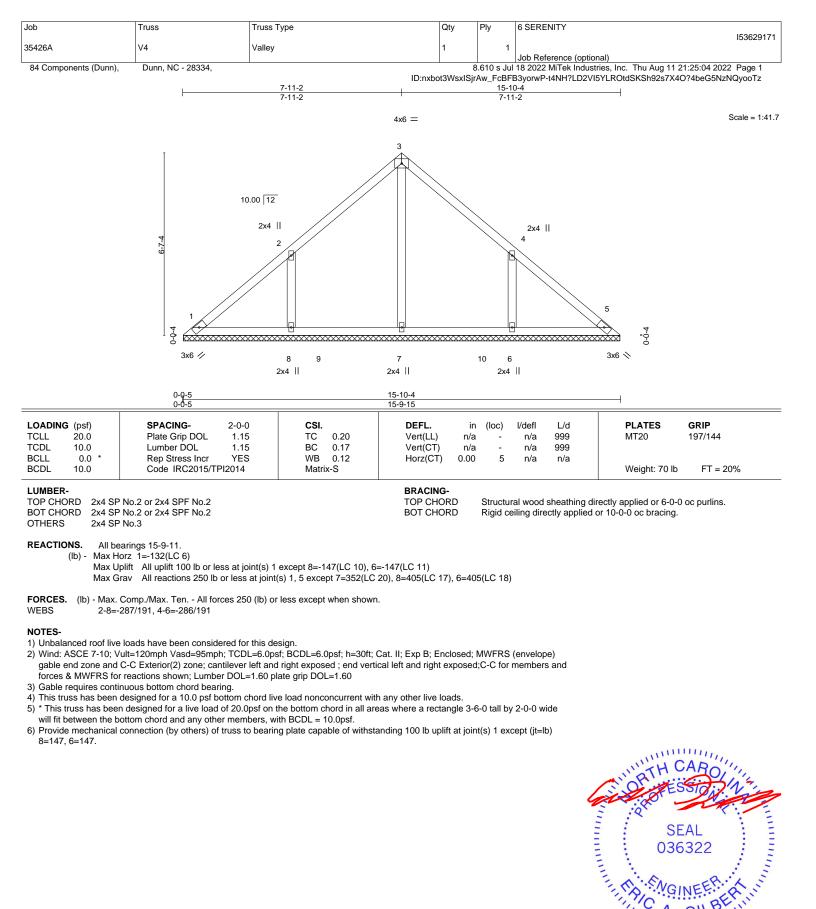


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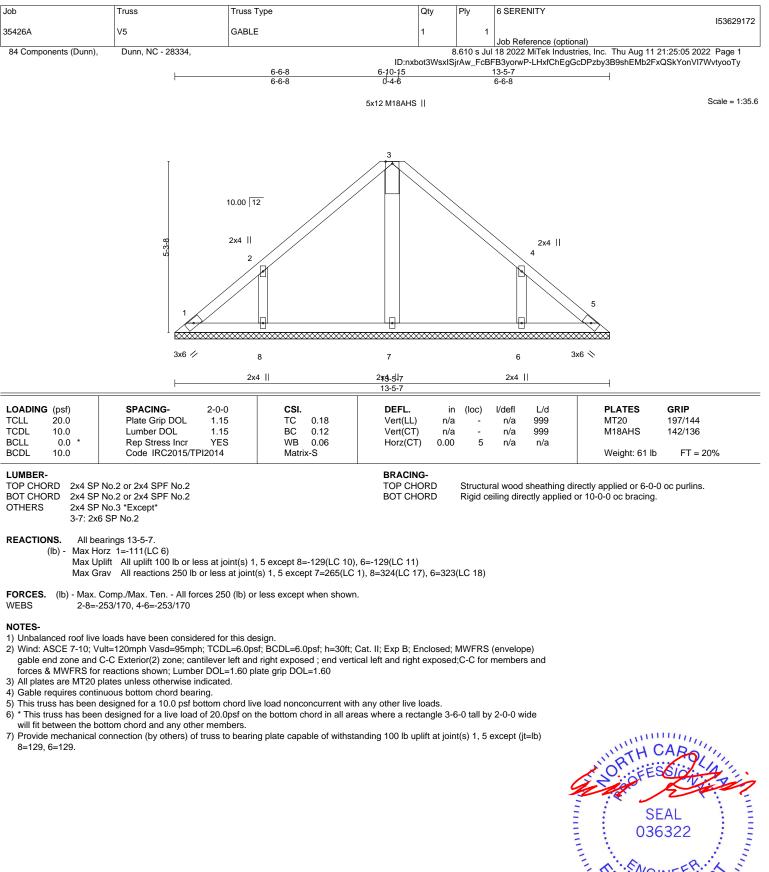
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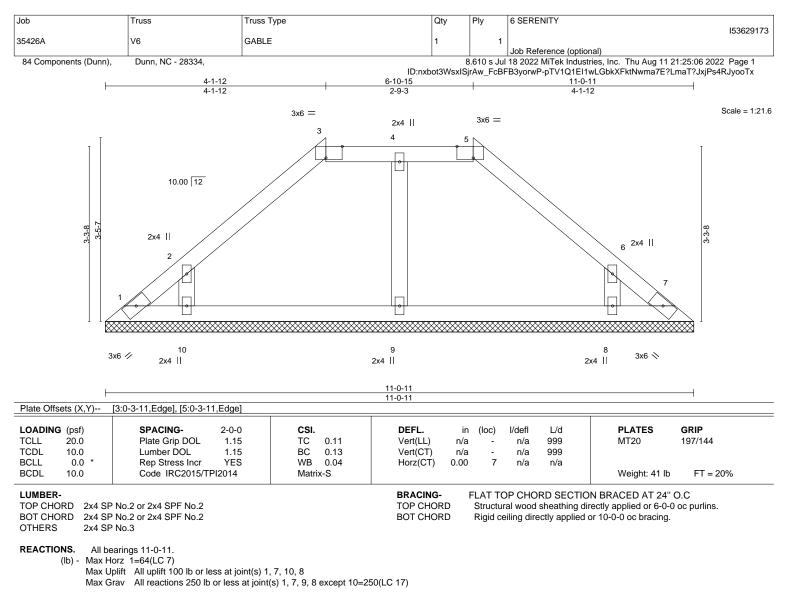


A. GILP.... August 16,2022









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 ; 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) Provide adequate drainage to prevent water ponding.

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.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 10, 8.



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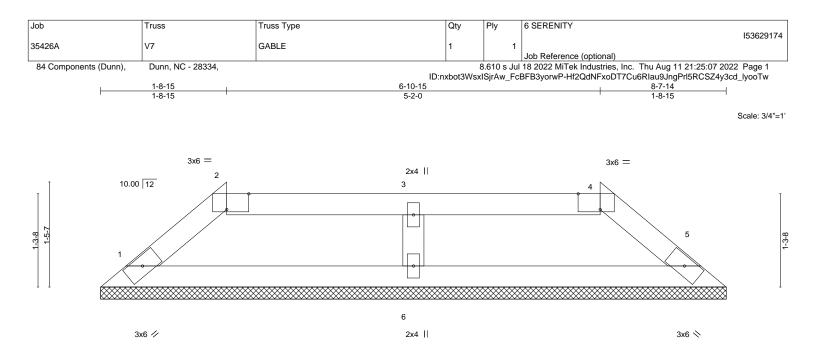


Plate Offsets (X,Y)	[2:0-3-11,Edge], [4:0-3-11,Edge]		8-7-14 8-7-14				
LOADING (psf) FCLL 20.0 FCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.11 BC 0.15 WB 0.04 Matrix-S	DEFL. ir Vert(LL) n/a Vert(CT) n/a Horz(CT) 0.00	- n/a - n/a	L/d 999 999 n/a	PLATES MT20 Weight: 27 lb	GRIP 197/144 FT = 20%
	No.2 or 2x4 SPF No.2 No.2 or 2x4 SPF No.2 No.3	BRACING- TOP CHORD BOT CHORD	Structural wood	sheathing dire	N BRACED AT 24" actly applied or 6-0-0 r 10-0-0 oc bracing.		

REACTIONS. (size) 1=8-7-14, 5=8-7-14, 6=8-7-14 Max Horz 1=-22(LC 6) Max Uplift 1=-12(LC 10), 5=-12(LC 11), 6=-12(LC 7) Max Grav 1=170(LC 1), 5=170(LC 1), 6=288(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 ; 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) Provide adequate drainage to prevent water ponding.

4) Gable requires continuous bottom chord bearing.

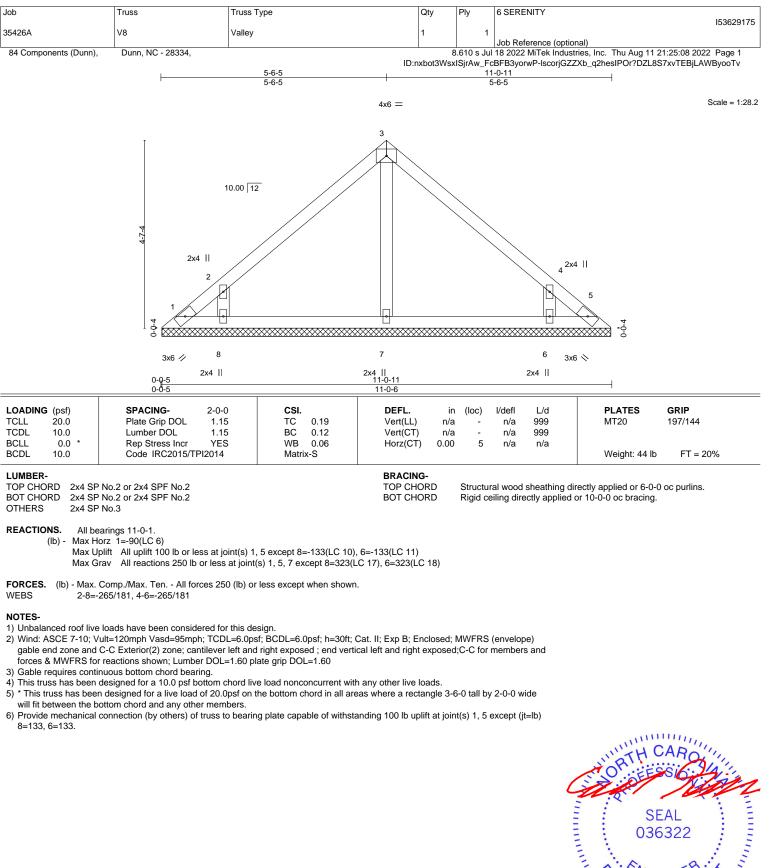
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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.

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

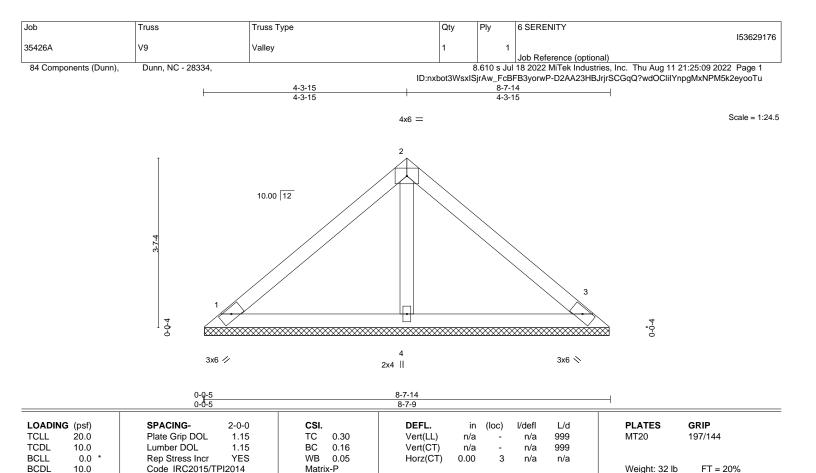












BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 2x4 SP No.2 or 2x4 SPF No.2 BOT CHORD OTHERS

2x4 SP No.3

REACTIONS. 1=8-7-4, 3=8-7-4, 4=8-7-4 (size) Max Horz 1=-69(LC 6) Max Uplift 1=-25(LC 11), 3=-34(LC 11) Max Grav 1=180(LC 1), 3=180(LC 1), 4=268(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; 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) 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.

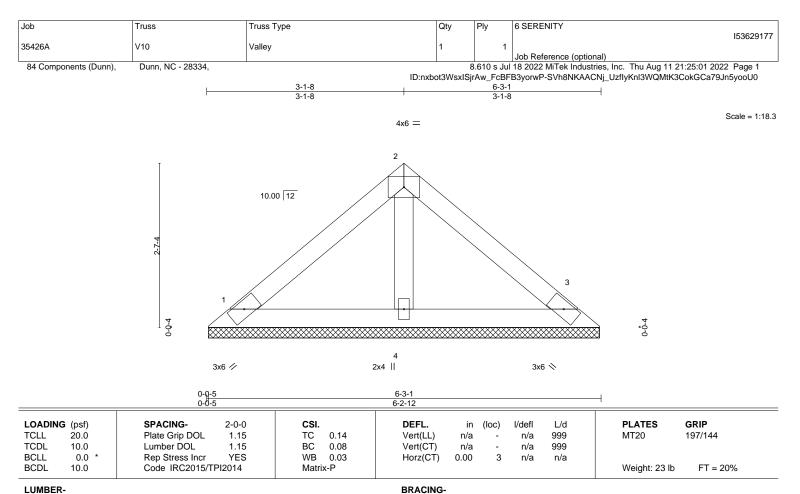
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



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

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





TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 2x4 SP No.2 or 2x4 SPF No.2 BOT CHORD 2x4 SP No.3 OTHERS

REACTIONS. 1=6-2-7, 3=6-2-7, 4=6-2-7 (size) Max Horz 1=48(LC 9)

Max Uplift 1=-17(LC 11), 3=-23(LC 11)

Max Grav 1=125(LC 1), 3=125(LC 1), 4=186(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; 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) 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.

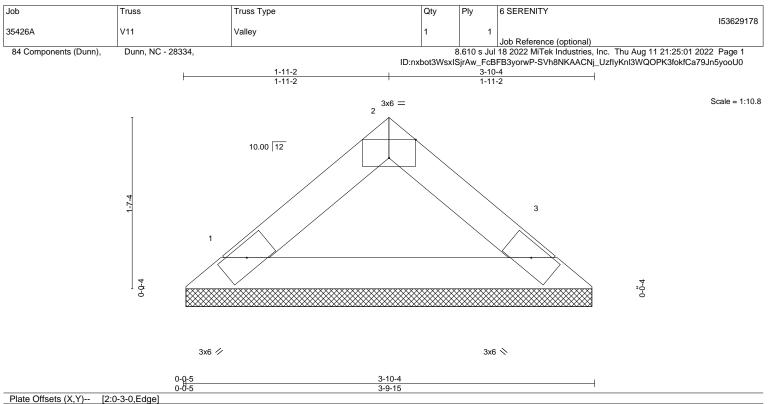
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



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

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





OADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
CLL	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20	197/144
CDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
SCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/T	PI2014	Matrix	k-P						Weight: 12 lb	FT = 20%

BOT CHORD

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

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

REACTIONS. 1=3-9-11, 3=3-9-11 (size) Max Horz 1=27(LC 7) Max Uplift 1=-4(LC 10), 3=-4(LC 11) Max Grav 1=122(LC 1), 3=122(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 ; 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) 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.





