ENGINEERING BY TRENCO
A MiTek Affiliate

Trenco
818 Soundside Rd
Edenton, NC 27932

RE: 2469517 - Marketplace, Lot 155 Mockingbird

Site Information:

Project Customer: MARKETPLACE BLDRS Project Name: 2469517
Lot/Block: Subdivision:
Model:
Address:
City: State: NC

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

Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.2
Wind Code: ASCE 7-10 Wind Speed: 130 mph Design Method: MWFRS (Envelope)/C-C hybrid Wind ASCE 7-10
Roof Load: 40.0 psf Floor Load: N/A psf

Mean Roof Height (feet): 25 Exposure Category: C

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I43774282	A01	11/25/20	35	I43774316	CJ3	11/25/20
2	I43774283	A02	11/25/20	36	I43774317	CJ4	11/25/20
3	I43774284	A03	11/25/20	37	I43774318	D01	11/25/20
4	I43774285	A04	11/25/20	38	I43774319		11/25/20
5	I43774286		11/25/20	39	I43774320		11/25/20
6	I43774287	A06	11/25/20	40	I43774321	E02	11/25/20
7	I43774288	A07	11/25/20	41	I43774322	E03	11/25/20
8	I43774289	A08	11/25/20		I43774323	E04	11/25/20
9	I43774290	A09	11/25/20	43	I43774324	E05	11/25/20
10	I43774291	A10	11/25/20	44	I43774325	E06	11/25/20
11	I43774292	A11	11/25/20	45	I43774326	E07	11/25/20
12	I43774293	A12	11/25/20	46	I43774327	G01	11/25/20
13	I43774294	A13	11/25/20	47	I43774328	G02	11/25/20
14	I43774295		11/25/20	48	I43774329	H01	11/25/20
	I43774296	A15	11/25/20	49	I43774330	H02	11/25/20
16	I43774297	A16	11/25/20	50	I43774331	JA1	11/25/20
17	I43774298	A17	11/25/20		I43774332	JA2	11/25/20
18	I43774299	A18	11/25/20	52	I43774333	JA3	11/25/20
19	I43774300	A19	11/25/20	53	I43774334	JA4	11/25/20
20		A20	11/25/20	54	I43774335	JA5	11/25/20
21	I43774302	A21	11/25/20	55	I43774336	JA6	11/25/20
22	I43774303	A22	11/25/20	56	I43774337	JA7	11/25/20
23	I43774304	B01	11/25/20	57	I43774338	JE1	11/25/20
	I43774305	B02	11/25/20	58	I43774339	JE2	11/25/20
25	I43774306	B03	11/25/20	59	I43774340	JE3	11/25/20
26	I43774307		11/25/20		I43774341	JE4	11/25/20
27	I43774308	B05	11/25/20	61	I43774342	JE5	11/25/20
28	I43774309	B06	11/25/20	62	I43774343	JE6	11/25/20
29		C01	11/25/20	63	I43774344	JG1	11/25/20
30	I43774311	C02	11/25/20	64	I43774345	JG2	11/25/20
31	I43774312		11/25/20	65	I43774346	JG3	11/25/20
32	I43774313	C04	11/25/20	66	I43774347	K01	11/25/20
	I43774314	CJ1	11/25/20	67	I43774348	K02	11/25/20
34	I43774315	CJ2	11/25/20	68	I43774349	K03	11/25/20

The truss drawing(s) referenced above have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Builders FirstSource-Sumter,SC.

Truss Design Engineer's Name: Johnson, Andrew
My license renewal date for the state of North Carolina is December 31, 2020.

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.

November 25,2020
Johnson, Andrew

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RE: 2469517 - Marketplace, Lot 155 Mockingbird

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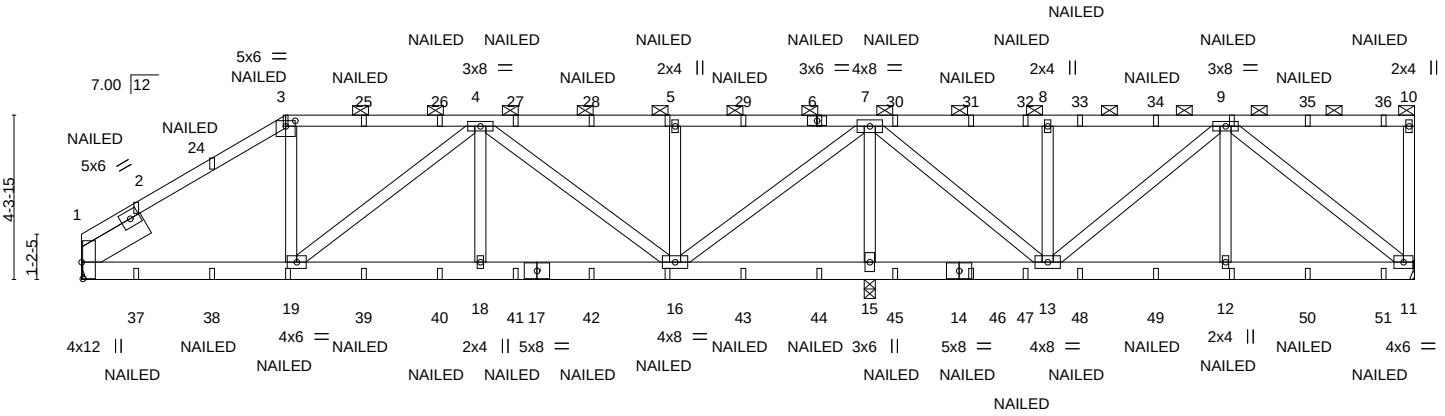
No.	Seal#	Truss Name	Date
69	I43774350	L01	11/25/20
70	I43774351	M01	11/25/20
71	I43774352	M02	11/25/20
72	I43774353	M03	11/25/20
73	I43774354	M04	11/25/20
74	I43774355	PB01	11/25/20
75	I43774356	PB02	11/25/20
76	I43774357	PB03	11/25/20
77	I43774358	PB04	11/25/20
78	I43774359	PB05	11/25/20
79	I43774360	PB06	11/25/20
80	I43774361	PB07	11/25/20
81	I43774362	PB08	11/25/20
82	I43774363	PB09	11/25/20
83	I43774364	PB10	11/25/20
84	I43774365	PB11	11/25/20
85	I43774366	V01	11/25/20
86	I43774367	V02	11/25/20
87	I43774368	V03	11/25/20
88	I43774369	V04	11/25/20
89	I43774370	V05	11/25/20
90	I43774371	V06	11/25/20
91	I43774372	V07	11/25/20
92	I43774373	V08	11/25/20
93	I43774374	V09	11/25/20
94	I43774375	V10	11/25/20
95	I43774376	V11	11/25/20

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	A01	Half Hip Girder	1	2	I43774282
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:32:43 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-d7tsc3sjDBpA5pM_X00mXNHxkzbgvomtxitPpeyFfF2

5-4-9	10-6-2	15-7-11	20-9-4	25-5-8	30-1-12	35-1-8
5-4-9	5-1-9	5-1-9	5-1-9	4-8-4	4-8-4	4-11-12

Scale = 1:60.7



5-4-9	10-6-2	15-7-11	20-9-4	25-5-8	30-1-12	35-1-8
5-4-9	5-1-9	5-1-9	5-1-9	4-8-4	4-8-4	4-11-12

Plate Offsets (X,Y)-- [1:0-5-4,0-0-6], [3:0-3-0,0-1-12]

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	0.29	Vert(LL)	0.05	18-19	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.05	18-19	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.24	Horz(CT)	-0.01	1	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 463 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x8 SP DSS 1-11-12

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-10.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 15-16,13-15.

REACTIONS. (size) 1=Mechanical, 11=Mechanical, 15=0-3-8
Max Horz 1=165(LC 23)
Max Uplift 1=-520(LC 8), 11=-408(LC 5), 15=-1744(LC 5)
Max Grav 1=1156(LC 1), 11=753(LC 1), 15=2922(LC 32)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1375/724, 3-4=-1135/665, 4-5=-610/384, 5-7=-610/384
BOT CHORD 1-19=-662/1123, 18-19=-828/1351, 16-18=-828/1351, 15-16=-981/565, 13-15=-981/565, 12-13=-303/536, 11-12=-303/536
WEBS 3-19=-80/421, 4-19=-358/275, 4-18=-21/393, 4-16=-943/561, 5-16=-471/424, 7-16=-1165/1950, 7-15=-2618/1702, 7-13=-860/1461, 8-13=-460/417, 9-13=-506/265, 9-12=0/388, 9-11=-660/370

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
4) Provide adequate drainage to prevent water ponding.
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) except (jt=lb) 1=520, 11=408, 15=1744.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) "NAILED" indicates 3-10d Nails (0.148" x 3") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

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Continued on page 2

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LOAD CASE(S) Standard

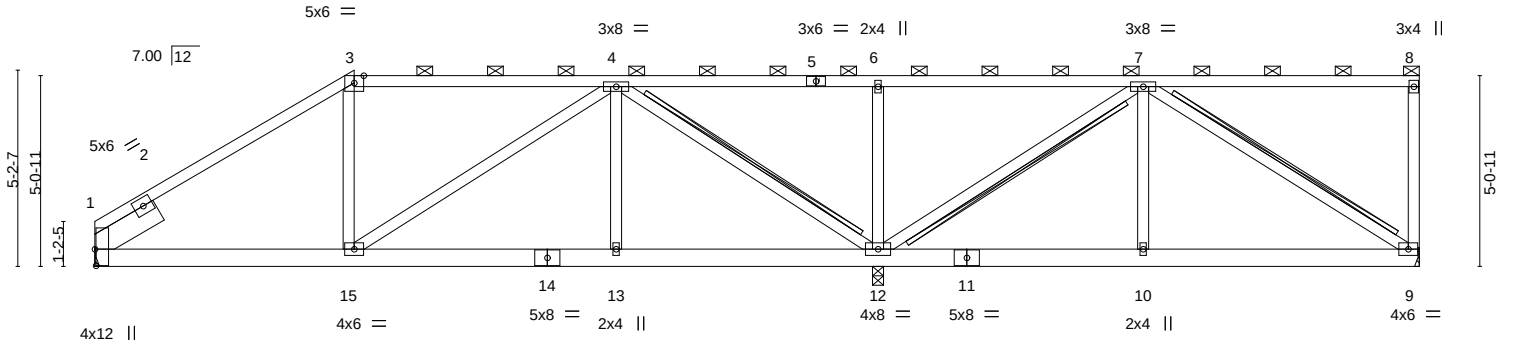
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-3=-60, 3-10=-60, 11-20=-20
   Concentrated Loads (lb)
      Vert: 3=-70(F) 6=-70(F) 19=-32(F) 16=-32(F) 5=-70(F) 12=-32(F) 9=-95(F) 2=-58(F) 25=-70(F) 26=-70(F) 27=-70(F) 28=-70(F) 29=-70(F) 30=-70(F) 31=-70(F) 32=-70(F) 33=-70(F) 34=-70(F) 35=-95(F) 36=-105(F) 37=-55(F) 38=-104(F) 39=-32(F) 40=-32(F) 41=-32(F) 42=-32(F) 43=-32(F) 44=-32(F) 45=-32(F) 46=-32(F) 47=-32(F) 48=-32(F) 49=-32(F) 50=-32(F) 51=-36(F)

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	A02	Half Hip	1	1	I43774283
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:32:46 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-1iZ_F5vcW6BlyG5ZC8aT90vLKAdt64KJdf53QzyFfF?

6-10-8	13-9-14	20-9-4	27-9-10	35-1-8
6-10-8	6-11-6	6-11-6	7-0-6	7-3-14

Scale = 1:61.1



6-10-8	13-9-14	20-9-4	27-9-10	35-1-8
6-10-8	6-11-6	6-11-6	7-0-6	7-3-14

Plate Offsets (X,Y)-- [1:0-5-4,0-0-6]

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	0.72	Vert(LL)	-0.03	13-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.07	13-15	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.02	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.04	13-15	>999	240	Weight: 222 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3 *Except*
	8-9: 2x4 SP No.2
SLIDER	Left 2x8 SP DSS 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-11-2 oc purlins, except end verticals, and 2-0-0 oc purlins (5-10-4 max.): 3-8.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	T-Brace: 2x4 SPF No.2 - 4-12, 7-12, 7-9 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS. (size) 1=Mechanical, 9=Mechanical, 12=0-3-8
Max Horz 1=204(LC 12)
Max Uplift 1=-183(LC 12), 9=-170(LC 9), 12=-532(LC 9)
Max Grav 1=746(LC 1), 9=445(LC 1), 12=1607(LC 1)

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

TOP CHORD	1-3=-915/345, 3-4=-718/364, 4-6=-158/353, 6-7=-158/353
BOT CHORD	1-15=-360/718, 13-15=-326/641, 12-13=-326/641, 10-12=-164/319, 9-10=-164/319
WEBS	4-13=0/281, 4-12=-1134/413, 6-12=-404/278, 7-12=-776/294, 7-10=0/303, 7-9=-350/179

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) except (jt=lb) 1=183, 9=170, 12=532.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

November 25,2020

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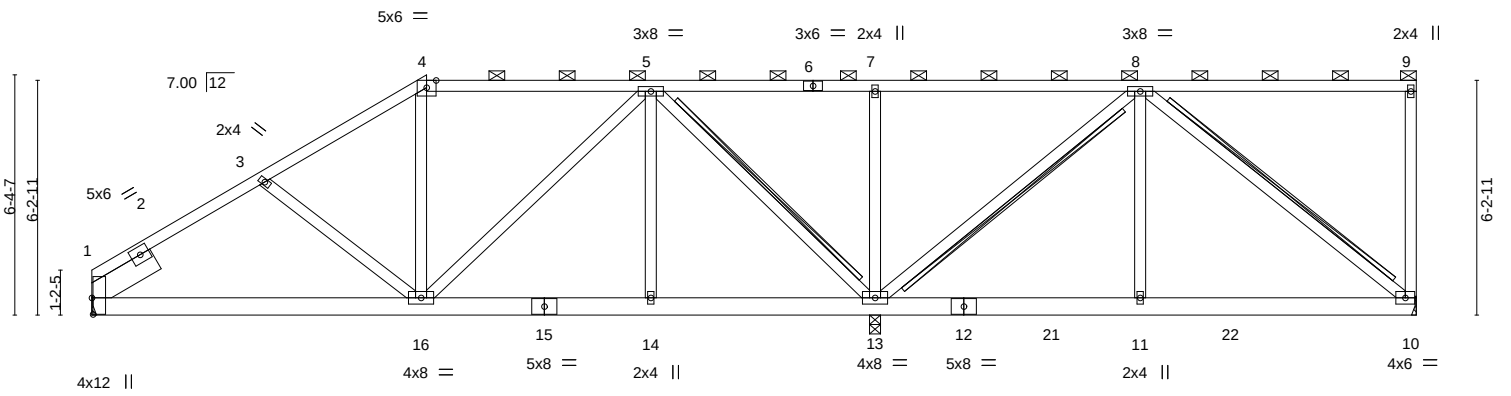
Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	A03	Half Hip	1	1	I43774284
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:32:47 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-Vu7MSRwEGQJcaQglms5iiDSWnayxrYhTsJrdyPyFfF_

4-7-0	8-10-8	14-9-14	20-9-4	27-9-10	35-1-8
4-7-0	4-3-8	5-11-6	5-11-6	7-0-6	7-3-14

Scale = 1:61.1



8-10-8	14-9-14	20-9-4	27-9-10	35-1-8
8-10-8	5-11-6	5-11-6	7-0-6	7-3-14

Plate Offsets (X,Y)-- [1:0-5-4,0-0-6]

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	0.74	Vert(LL)	-0.03	16-19	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.06	16-19	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.01	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.03	14-16	>999	240	Weight: 241 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3 *Except*
	9-10: 2x4 SP No.2
SLIDER	Left 2x8 SP DSS 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-8-15 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-9.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	T-Brace: 2x4 SPF No.2 - 5-13, 8-13, 8-10 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS. (size) 1=Mechanical, 10=Mechanical, 13=0-3-8
Max Horz 1=265(LC 12)
Max Uplift 1=-155(LC 12), 10=-172(LC 8), 13=-551(LC 9)
Max Grav 1=721(LC 1), 10=448(LC 26), 13=1669(LC 1)

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

TOP CHORD	1-3=-884/297, 3-4=-724/252, 4-5=-577/270, 5-7=-123/337, 7-8=-123/337
BOT CHORD	1-16=-418/783, 14-16=-170/364, 13-14=-170/364, 11-13=-110/293, 10-11=-110/293
WEBS	3-16=-271/229, 5-16=-148/338, 5-13=-983/411, 7-13=-376/258, 8-13=-733/263, 8-11=0/327, 8-10=-356/129

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=155, 10=172, 13=551.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

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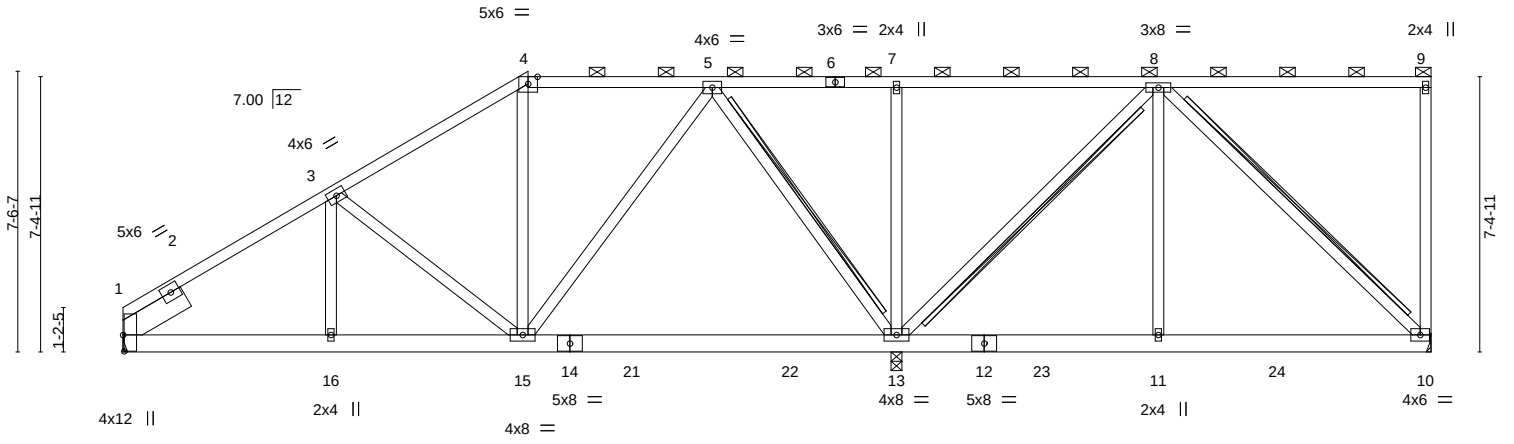
Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	A04	Half Hip	1	1	I43774285
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:32:49 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-RHF7t6xUo1ZKpkq8uG7AneXrBOdOJSUlJdKj0IyFfEy

5-7-0	10-10-8	15-9-14	20-9-4	27-9-10	35-1-8
5-7-0	5-3-8	4-11-6	4-11-6	7-0-6	7-3-14

Scale = 1:61.9



5-7-0	10-10-8	20-9-4	27-9-10	35-1-8
5-7-0	5-3-8	9-10-12	7-0-6	7-3-14

Plate Offsets (X,Y)-- [1:0-5-4,0-0-6]

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	0.74	Vert(LL)	-0.08	13-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.14	13-15	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.01	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.02	15-16	>999	240	Weight: 250 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3 *Except*
	9-10: 2x4 SP No.2
SLIDER	Left 2x8 SP DSS 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-11-11 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-9.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	T-Brace: 2x4 SPF No.2 - 5-13, 8-13, 8-10 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS. (size) 1=Mechanical, 10=Mechanical, 13=0-3-8
Max Horz 1=326(LC 12)
Max Uplift 1=-172(LC 12), 10=-196(LC 8), 13=-499(LC 9)
Max Grav 1=715(LC 1), 10=453(LC 26), 13=1697(LC 2)

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

TOP CHORD	1-3=-864/271, 3-4=-619/228, 4-5=-495/253, 5-7=-60/295, 7-8=-60/295
BOT CHORD	1-16=-440/819, 15-16=-440/819
WEBS	3-15=-413/277, 5-15=-148/542, 5-13=-835/393, 7-13=-354/243, 8-13=-687/218, 8-11=0/333, 8-10=-316/156

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=172, 10=196, 13=499.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

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Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	A05	Half Hip	1	1	I43774286
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:32:50 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-vToV4Sy6ZLhBRuPKR_ePJs4?9o_N2pAvYH3HYkyFfEx

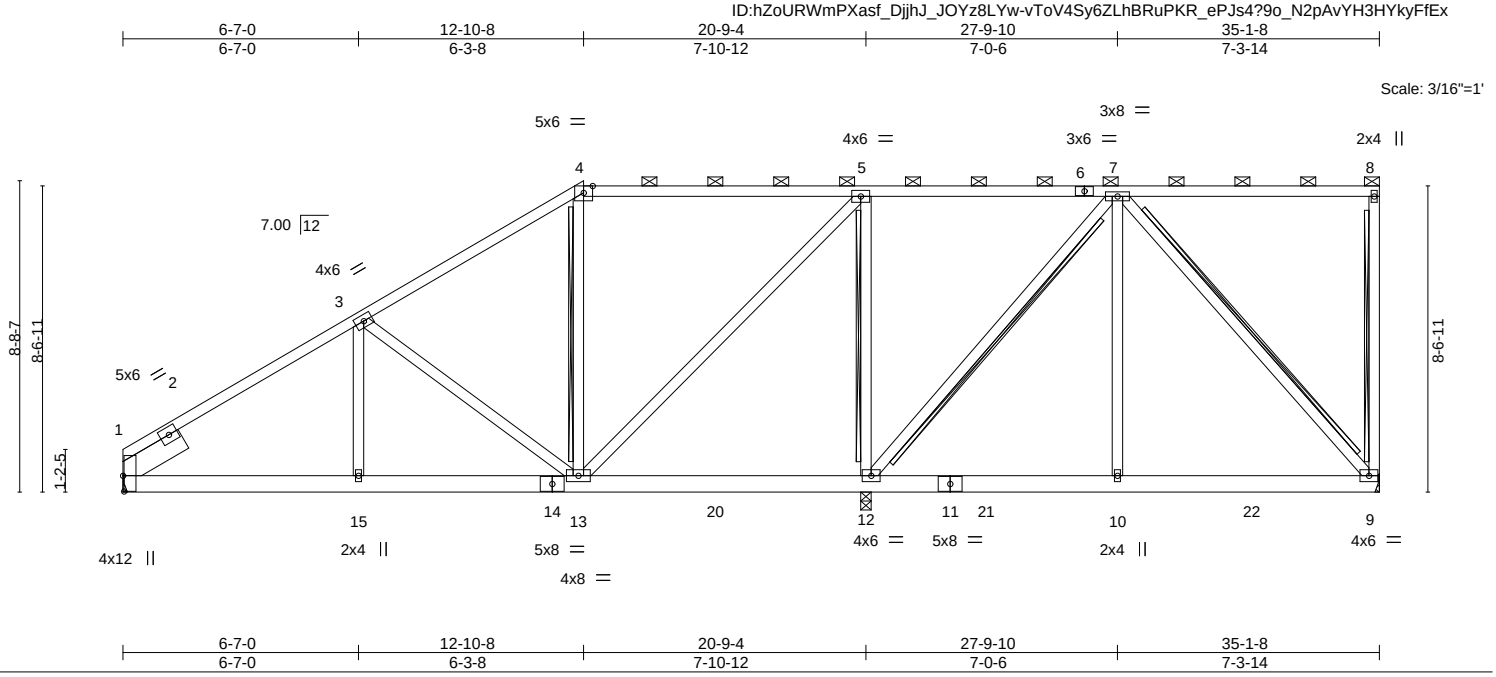

Plate Offsets (X,Y)-- [1:0-5-4,0-0-6]

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	0.79	Vert(LL)	-0.03	12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.06	13-15	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.77	Horz(CT)	-0.01	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.02	13-15	>999	240	Weight: 255 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3 *Except* 8-9: 2x4 SP No.2
SLIDER	Left 2x8 SP DSS 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-8-1 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-8.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 12-13.
WEBS	T-Brace: 2x4 SPF No.2 - 8-9, 4-13, 5-12, 7-12, 7-9 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS. (size) 1=Mechanical, 9=Mechanical, 12=0-3-8
Max Horz 1=386(LC 12)
Max Uplift 1=-193(LC 12), 9=-220(LC 8), 12=-418(LC 9)
Max Grav 1=743(LC 1), 9=513(LC 26), 12=1661(LC 2)

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

TOP CHORD	1-3=-907/283, 3-4=-545/232, 4-5=-451/270
BOT CHORD	1-15=-492/892, 13-15=-492/892, 10-12=-121/251, 9-10=-121/251
WEBS	3-13=-556/324, 5-13=-311/800, 5-12=-1048/549, 7-12=-589/108, 7-10=0/380, 7-9=-365/173

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=193, 9=220, 12=418.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

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Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	A06	Roof Special Girder	1	3	I43774287
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:32:52 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-sswFV8zN5yxugBYiZPhtPH9LCbedWjhC?bYOddyFfEv

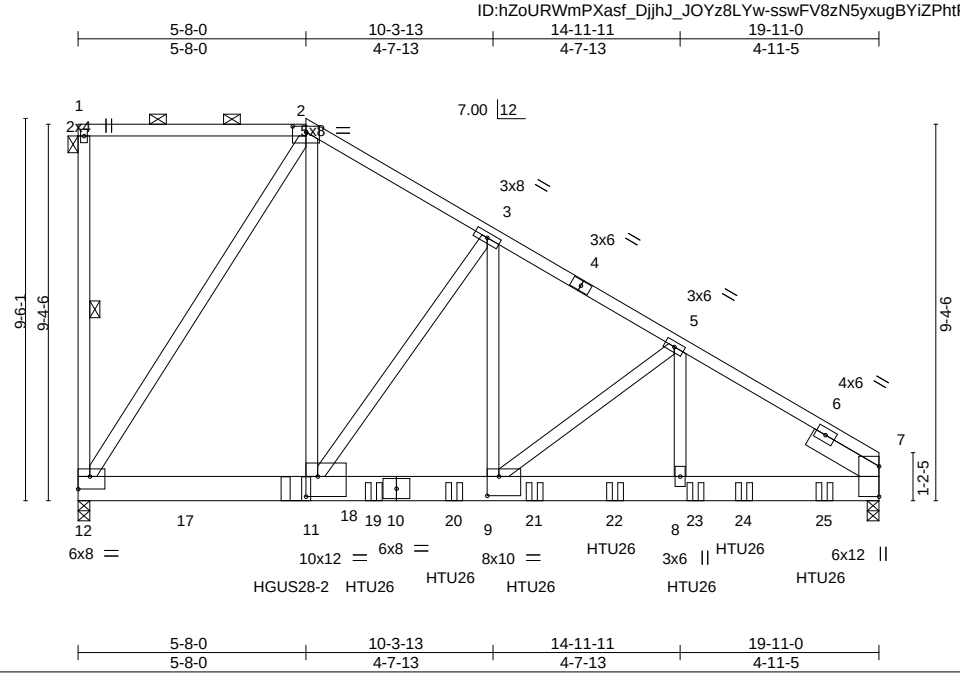


Plate Offsets (X,Y)-- [2:0-4-0,0-1-11], [9:0-3-8,0-5-12], [11:0-3-8,0-6-0], [12:Edge,0-3-12]

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	0.82	Vert(LL)	-0.09	8-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.17	8-9	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.83	Horz(CT)	0.04	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.09	8-9	>999	240	Weight: 516 lb	FT = 20%

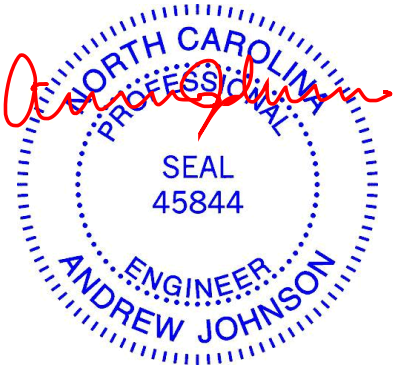
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP DSS
WEBS 2x4 SP No.2
SLIDER Right 2x6 SP No.2 1-11-12

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-7-1 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-2.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 1-12

REACTIONS. (size) 12=0-3-8, 7=0-3-8
Max Horz 12=-428(LC 9)
Max Uplift 12=-1972(LC 9), 7=-1856(LC 9)
Max Grav 12=6006(LC 1), 7=6904(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4224/1327, 3-5=-6805/1893, 5-7=-8507/2315
BOT CHORD 11-12=-977/3488, 9-11=-1411/5861, 8-9=-1879/7209, 7-8=-1879/7209
WEBS 2-12=-6623/2209, 2-11=-2396/7394, 3-11=-3881/1099, 3-9=-977/4166, 5-9=-1811/592, 5-8=-464/1981

NOTES-
1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 4 rows staggered at 0-4-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=1972, 7=1856.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Use Simpson Strong-Tie HGUS28-2 (36-16d Girder, 6-16d Truss) or equivalent at 5-5-0 from the left end to connect truss(es) to front face of bottom chord.
11) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 7-4-4 from the left end to 18-6-12 to connect truss(es) to front face of bottom chord.
12) Fill all nail holes where hanger is in contact with lumber.



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Continued on page 2

LOAD CASE(S) Standard

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LOAD CASE(S) Standard

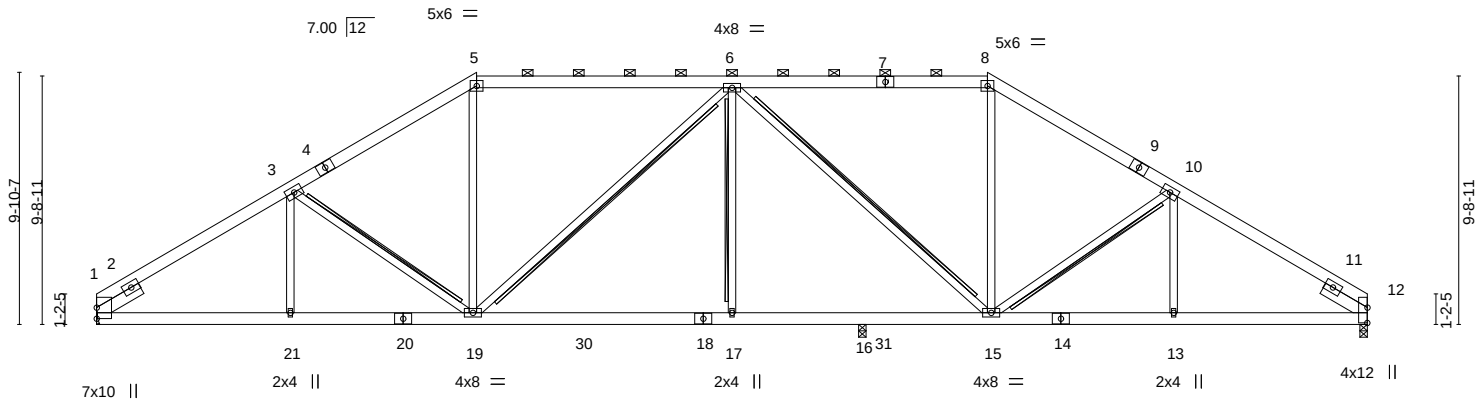
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-2=-60, 2-7=-60, 12-13=-20
   Concentrated Loads (lb)
      Vert: 18=-3398(F) 19=-1133(F) 20=-1133(F) 21=-1133(F) 22=-1133(F) 23=-1133(F) 24=-1133(F) 25=-1133(F)

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	A07	Hip	1	1	I43774288
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:32:53 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-K2UejU_?sG3lIL7v76C6xUiXa?sOF9bLEFIx93yFfEu

7-7-0	14-10-8	24-10-8	34-10-8	42-2-0	49-9-0
7-7-0	7-3-8	10-0-0	10-0-0	7-3-8	7-7-0

Scale = 1:90.2



7-7-0	14-10-8	24-10-8	30-1-8	34-10-8	42-2-0	49-9-0
7-7-0	7-3-8	10-0-0	5-3-0	4-9-0	7-3-8	7-7-0

Plate Offsets (X,Y)-- [12:0-7-4,0-0-1]

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	0.72	Vert(LL)	-0.23	17-19	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.46	17-19	>786	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.12	12	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.17	17-19	>999	240	Weight: 372 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2 *Except* 14-18: 2x6 SP No.1
WEBS	2x4 SP No.3 *Except* 6-19,6-15: 2x4 SP No.2
SLIDER	Left 2x6 SP No.2 1-11-12, Right 2x6 SP No.2 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-11-10 oc purlins, except 2-0-0 oc purlins (4-6-9 max.): 5-8.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	T-Brace: 2x4 SPF No.2 - 3-19, 6-19, 6-17, 6-15, 10-15

Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance. Brace must cover 90% of web length.

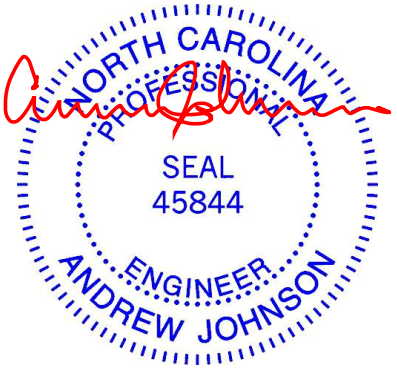
REACTIONS. (size) 1=Mechanical, 12=0-3-8, 16=0-3-8
Max Horz 1=287(LC 9)
Max Uplift 1=-397(LC 12), 12=-396(LC 13), 16=-37(LC 9)
Max Grav 1=1790(LC 1), 12=1686(LC 1), 16=565(LC 2)

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

TOP CHORD	1-3=-2660/984, 3-5=-2370/987, 5-6=-1961/935, 6-8=-1735/883, 8-10=-2106/927, 10-12=-2517/951
BOT CHORD	1-21=-706/2183, 19-21=-706/2183, 17-19=-638/2201, 16-17=-638/2201, 15-16=-638/2201, 13-15=-678/2060, 12-13=-678/2060
WEBS	3-19=-457/339, 5-19=-172/694, 6-19=-499/388, 6-17=-91/331, 6-15=-824/404, 8-15=-141/544, 10-15=-564/343, 10-13=0/275

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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) All plates are 5x8 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.
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) 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) 16 except (jt=lb) 1=397, 12=396.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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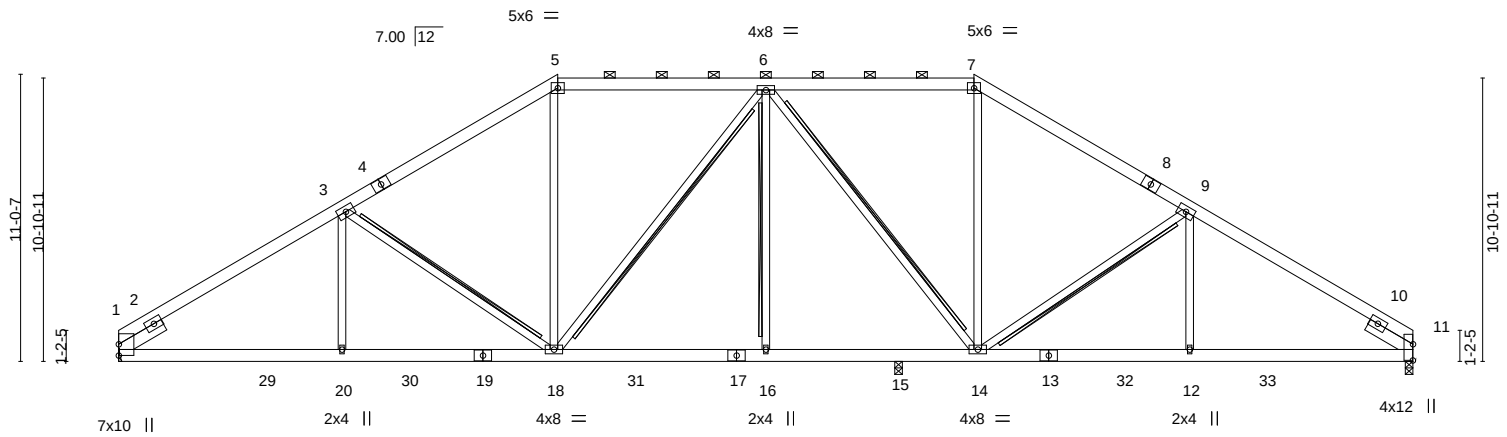
Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	A08	Hip	1	1	I43774289
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:32:55 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-GQcO7A0FOtKTXfHHEXEa0vnuYpZtj64eiZn2DxyFfEs

8-7-0	16-10-8	24-10-8	32-10-8	41-2-1	49-9-0
8-7-0	8-3-8	8-0-0	8-0-0	8-3-8	8-6-15

Scale = 1:88.6



8-7-0	16-10-8	24-10-8	30-1-8	32-10-8	41-2-1	49-9-0
8-7-0	8-3-8	8-0-0	5-3-0	2-9-0	8-3-8	8-6-15

Plate Offsets (X,Y)-- [11:0-7-8,0-0-1]

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	0.69	Vert(LL)	-0.18	16-18	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.34	16-18	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.11	11	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.12	12-14	>999	240	Weight: 382 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2 *Except* 13-17: 2x6 SP DSS
WEBS	2x4 SP No.3 *Except* 6-18,6-14: 2x4 SP No.2
SLIDER	Left 2x6 SP No.2 1-11-12, Right 2x6 SP No.2 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-2-8 oc purlins, except 2-0-0 oc purlins (5-5-8 max.): 5-7.
BOT CHORD	Rigid ceiling directly applied or 9-4-3 oc bracing.
WEBS	T-Brace: 2x4 SPF No.2 - 3-18, 6-18, 6-16, 6-14, 9-14
	Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS. (size) 1=Mechanical, 11=0-3-8, 15=0-3-8
Max Horz 1=326(LC 9)
Max Uplift 1=-397(LC 12), 11=-385(LC 13), 15=-85(LC 12)
Max Grav 1=1676(LC 2), 11=1479(LC 2), 15=961(LC 2)

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

TOP CHORD	1-3=-2507/891, 3-5=-2027/866, 5-6=-1662/836, 6-7=-1319/739, 7-9=-1596/754, 9-11=-2207/816
BOT CHORD	1-20=-616/2172, 18-20=-616/2172, 16-18=-371/1631, 15-16=-371/1631, 14-15=-371/1631, 12-14=-552/1808, 11-12=-552/1808
WEBS	3-20=0/265, 3-18=-697/401, 5-18=-131/569, 6-18=-137/349, 6-14=-692/353, 7-14=-75/365, 9-14=-835/414, 9-12=0/384

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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) All plates are 5x8 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.
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) 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) 15 except (jt=lb) 1=397, 11=385.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

November 25,2020

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Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	A09	Piggyback Base	5	1	I43774290
					Job Reference (optional)

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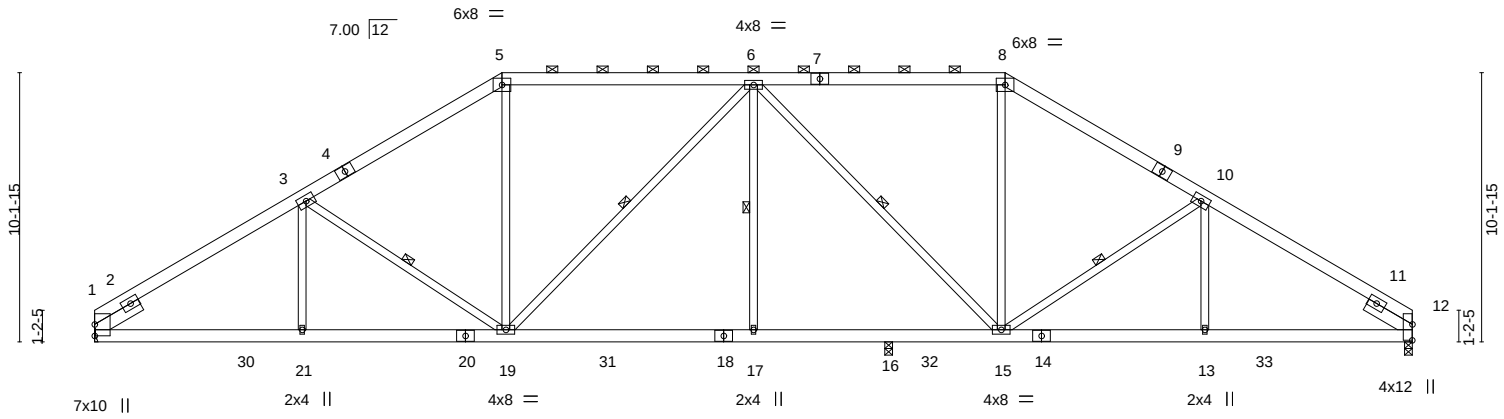
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-kdAmLW1t9BSK9psUoFlpZ7K2rCtlSaEnwDWbmOyFfEr

7-10-0	15-4-9	24-10-8	34-4-8	41-11-0	49-9-0
7-10-0	7-6-8	9-6-0	9-6-0	7-6-8	7-10-0

Scale = 1:87.0



7-10-0	15-4-9	24-10-8	30-1-8	34-4-8	41-11-0	49-9-0
7-10-0	7-6-8	9-6-0	5-3-0	4-3-0	7-6-8	7-10-0

Plate Offsets (X,Y)-- [12:0-7-4,0-0-1]

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	0.72	Vert(LL)	-0.22	17-19	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.42	17-19	>865	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.12	12	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.16	17-19	>999	240	Weight: 375 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2 *Except* 14-18: 2x6 SP No.1
WEBS	2x4 SP No.3 *Except* 6-19,6-15: 2x4 SP No.2
SLIDER	Left 2x6 SP No.2 1-11-12, Right 2x6 SP No.2 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-0-1 oc purlins, except 2-0-0 oc purlins (4-9-8 max.): 5-8.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	1 Row at midpt 3-19, 6-19, 6-17, 6-15, 10-15

REACTIONS. (size) 1=Mechanical, 12=0-3-8, 16=0-3-8
Max Horz 1=301(LC 9)
Max Uplift 1=-397(LC 12), 12=-392(LC 13), 16=-45(LC 9)
Max Grav 1=1760(LC 1), 12=1641(LC 1), 16=649(LC 2)

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

TOP CHORD	1-3=-2618/962, 3-5=-2265/952, 5-6=-1870/909, 6-8=-1620/846, 8-10=-1978/880, 10-12=-2449/920
BOT CHORD	1-21=-686/2149, 19-21=-686/2149, 17-19=-551/2032, 16-17=-551/2032, 15-16=-551/2032, 13-15=-649/2003, 12-13=-649/2003
WEBS	3-19=-541/363, 5-19=-165/676, 6-19=-369/361, 6-17=-128/279, 6-15=-750/383, 8-15=-129/512, 10-15=-648/371, 10-13=0/302

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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) All plates are 5x8 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.
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) 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) 16 except (jt=lb) 1=397, 12=392.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

November 25,2020

ENGINEERING BY TRENCO
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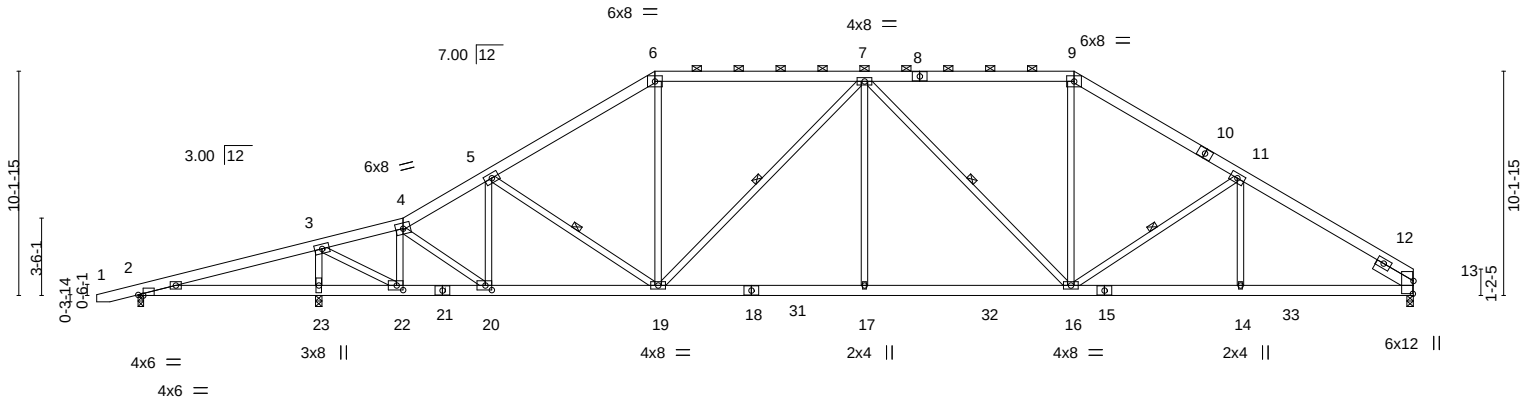
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	A10	PIGGYBACK BASE	2	1	I43774291 Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:32:58 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-g?HWmB28hoi2O60svfoHeYPMW0YJwS74OX?iqGyFfEp

-1-10-8	8-2-4	12-0-1	15-10-9	23-5-1	32-11-0	42-5-0	49-11-8	57-9-8
1-10-8	8-2-4	3-9-13	3-10-8	7-6-8	9-6-0	9-6-0	7-6-8	7-10-0

Scale = 1:104.4



8-2-4	12-0-1	15-10-9	23-5-1	32-11-0	42-5-0	49-11-8	57-9-8
8-2-4	3-9-13	3-10-8	7-6-8	9-6-0	9-6-0	7-6-8	7-10-0

Plate Offsets (X,Y)-- [2:0-2-12,Edge], [13:0-7-0,0-0-5], [20:0-3-8,0-2-8], [22:0-3-8,0-2-8]

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	0.83	Vert(LL)	-0.18	16-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.34	16-17	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.12	13	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.13	17	>999	240	Weight: 430 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3 *Except* 3-22,7-19,7-16: 2x4 SP No.2
SLIDER	Right 2x6 SP No.2 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except 2-0-0 oc purlins (4-5-12 max.): 6-9.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	1 Row at midpt 5-19, 7-19, 7-16, 11-16

REACTIONS. (size) 2=0-3-0, 23=0-3-8, 13=0-3-8
Max Horz 2=342(LC 9)
Max Uplift 2=-293(LC 8), 23=-645(LC 12), 13=-409(LC 13)
Max Grav 2=74(LC 23), 23=2751(LC 1), 13=1921(LC 1)

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

TOP CHORD	2-3=-393/1272, 3-4=-1317/429, 4-5=-2310/837, 5-6=-2397/947, 6-7=-1992/904, 7-9=-2147/956, 9-11=-2547/1007, 11-13=-2894/1017
BOT CHORD	2-23=-1177/373, 22-23=-1177/373, 20-22=-329/1292, 19-20=-574/1993, 17-19=-642/2537, 16-17=-642/2537, 14-16=-731/2380, 13-14=-731/2380
WEBS	3-23=-2454/956, 3-22=-777/2755, 4-22=-1435/531, 4-20=-316/890, 5-20=-420/248, 5-19=-254/254, 6-19=-162/767, 7-19=-877/375, 7-17=0/537, 7-16=-676/360, 9-16=-192/831, 11-16=-529/363

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; porch left 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 5x8 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.
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) except (jt=lb) 2=293, 23=645, 13=409.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

November 25,2020

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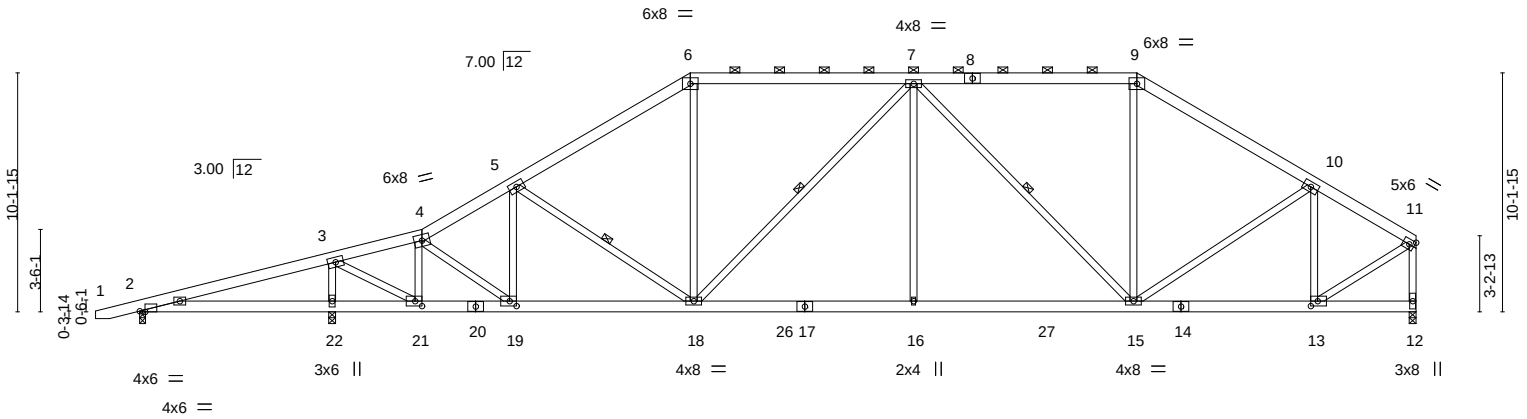
Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	A11	PIGGYBACK BASE	4	1	I43774292 Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:33:00 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-dOPHBt4ODPymeQAF14qljzUnFqITONiNrrUpv9yFfEn

-1-10-8	8-2-4	12-0-1	15-10-9	23-5-1	32-11-0	42-5-0	49-11-8	54-3-8
1-10-8	8-2-4	3-9-13	3-10-8	7-6-8	9-6-0	9-6-0	7-6-8	4-4-0

Scale = 1:98.0



8-2-4	12-0-1	15-10-9	23-5-1	32-11-0	42-5-0	49-11-8	54-3-8
8-2-4	3-9-13	3-10-8	7-6-8	9-6-0	9-6-0	7-6-8	4-4-0

Plate Offsets (X,Y)-- [2:0-2-12,Edge], [13:0-3-8,0-2-8], [19:0-3-8,0-2-8], [21:0-3-8,0-2-8]

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	0.56	Vert(LL)	-0.13	16-18	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.26	16-18	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.06	12	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.10	16-18	>999	240	Weight: 419 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
3-21,7-18,7-15,11-12: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-6-12 oc purlins, except end verticals, and 2-0-0 oc purlins (4-10-7 max.): 6-9.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-18, 7-18, 7-15

REACTIONS. (size) 2=0-3-0, 22=0-3-8, 12=0-3-8
Max Horz 2=334(LC 9)
Max Uplift 2=-292(LC 8), 22=-631(LC 12), 12=-338(LC 13)
Max Grav 2=139(LC 23), 22=2517(LC 1), 12=1784(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-368/968, 3-4=-1347/384, 4-5=-2193/762, 5-6=-2192/858, 6-7=-1808/827, 7-9=-1649/777, 9-10=-2002/800, 10-11=-1583/566, 11-12=-1746/612
BOT CHORD 2-22=-878/244, 21-22=-878/244, 19-21=-388/1315, 18-19=-613/1891, 16-18=-619/2202, 15-16=-619/2202, 13-15=-441/1334
WEBS 3-22=-2230/898, 3-21=-700/2451, 4-21=-1277/491, 4-19=-291/733, 5-19=-320/233, 5-18=-299/254, 6-18=-117/662, 7-18=-667/346, 7-16=0/541, 7-15=-869/362, 9-15=-88/579, 10-15=-243/485, 10-13=-780/377, 11-13=-527/1591

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left exposed; porch left 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 5x8 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.
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) except (jt=lb) 2=292, 22=631, 12=338.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

November 25,2020

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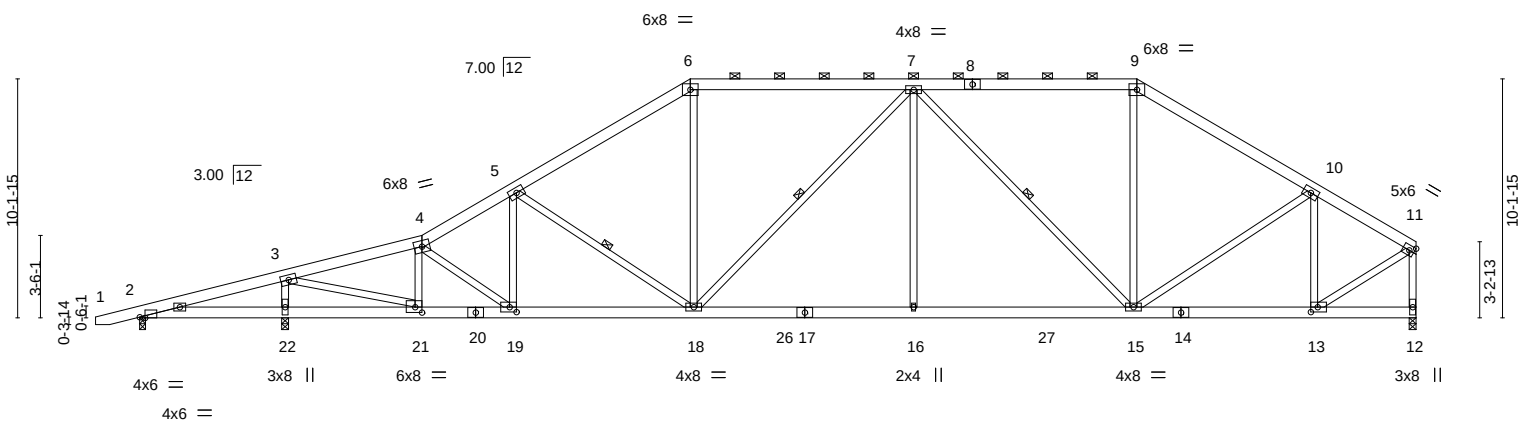
Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	A12	PIGGYBACK BASE	5	1	I43774293 Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:33:01 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-5azfOD40zj4dFakRboL_GA1yzDeF7nNX4VEMRbyFfEm

-1-10-8	6-2-4	12-0-1	15-10-9	23-5-1	32-11-0	42-5-0	49-11-8	54-3-8
1-10-8	6-2-4	5-9-13	3-10-8	7-6-8	9-6-0	9-6-0	7-6-8	4-4-0

Scale = 1:98.0



6-2-4	12-0-1	15-10-9	23-5-1	32-11-0	42-5-0	49-11-8	54-3-8
6-2-4	5-9-13	3-10-8	7-6-8	9-6-0	9-6-0	7-6-8	4-4-0

Plate Offsets (X,Y)-- [2:0-2-12,Edge], [13:0-3-8,0-2-8], [19:0-3-8,0-2-8], [21:0-3-8,0-2-12]

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	0.56	Vert(LL)	-0.17	16-18	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.33	16-18	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.08	12	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.13	18	>999	240	Weight: 420 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
3-21,7-18,7-15,11-12: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-1-4 oc purlins, except end verticals, and 2-0-0 oc purlins (4-5-13 max.): 6-9.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-18, 7-18, 7-15

REACTIONS. (size) 2=0-3-0, 22=0-3-8, 12=0-3-8
Max Horz 2=334(LC 9)
Max Uplift 2=-239(LC 8), 22=-648(LC 12), 12=-346(LC 13)
Max Grav 2=41(LC 23), 22=2521(LC 1), 12=1876(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-413/938, 3-4=-2678/868, 4-5=-2967/1058, 5-6=-2526/985, 6-7=-2090/937, 7-9=-1758/819, 9-10=-2132/850, 10-11=-1668/598, 11-12=-1838/647
BOT CHORD 2-22=-858/271, 21-22=-858/271, 19-21=-877/2587, 18-19=-866/2560, 16-18=-696/2396, 15-16=-696/2396, 13-15=-469/1407
WEBS 3-22=-2264/970, 3-21=-1170/3529, 4-21=-973/429, 5-19=0/274, 5-18=-690/360, 6-18=-180/823, 7-18=-569/335, 7-16=0/540, 7-15=-988/384, 9-15=-112/640, 10-15=-251/528, 10-13=-829/395, 11-13=-560/1678

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left exposed; porch left 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 5x8 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.
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) except (jt=lb) 2=239, 22=648, 12=346.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

November 25,2020

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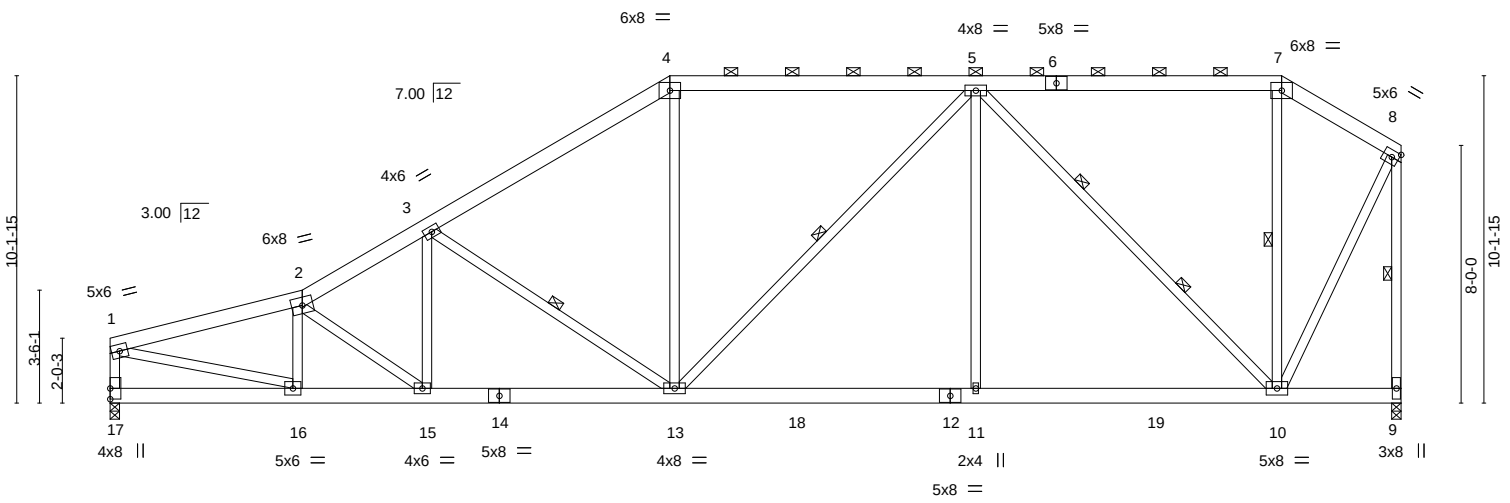
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	A13	Piggyback Base	1	1	I43774294
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:33:03 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-1z5Ppv6GVKKLVtuqiDNSLb6IK1LXbgrpXpjTVUyFfEk

5-11-9	9-10-1	17-4-9	26-10-8	36-4-8	40-1-0
5-11-9	3-10-8	7-6-8	9-6-0	9-6-0	3-8-8

Scale = 1:71.5



5-11-9	9-10-1	17-4-9	26-10-8	36-4-8	40-1-0
5-11-9	3-10-8	7-6-8	9-6-0	9-6-0	3-8-8

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	0.57	Vert(LL)	-0.13	11-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.24	11-13	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.06	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.11	13-15	>999	240	Weight: 338 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
5-13,5-10,1-17,1-16,8-9: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-2-3 oc purlins, except end verticals, and 2-0-0 oc purlins (5-1-10 max.): 4-7.
BOT CHORD Rigid ceiling directly applied or 6-11-3 oc bracing.
WEBS 1 Row at midpt 3-13, 5-13, 7-10, 8-9
2 Rows at 1/3 pts 5-10

REACTIONS. (size) 17=0-3-8, 9=0-3-8
Max Horz 17=332(LC 12)
Max Uplift 17=-370(LC 12), 9=-324(LC 9)
Max Grav 17=1592(LC 1), 9=1617(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2676/892, 2-3=-2630/923, 3-4=-2006/761, 4-5=-1636/743, 5-7=-597/304, 7-8=-719/290, 1-17=-1508/558, 8-9=-1621/595
BOT CHORD 16-17=-389/345, 15-16=-1137/2581, 13-15=-979/2262, 11-13=-578/1595, 10-11=-578/1595
WEBS 2-16=-632/290, 2-15=-405/200, 3-15=-61/433, 3-13=-853/424, 4-13=-68/562, 5-13=-192/325, 5-11=0/544, 5-10=-1447/544, 1-16=-789/2513, 8-10=-457/1354

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 17=370, 9=324.
7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

November 25,2020

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	A14	Piggyback Base	3	1	I43774295 Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:33:04 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-V9fo0F7uGeSC61T0GwuhuofR?RfkK8szmTS02wyFfEj

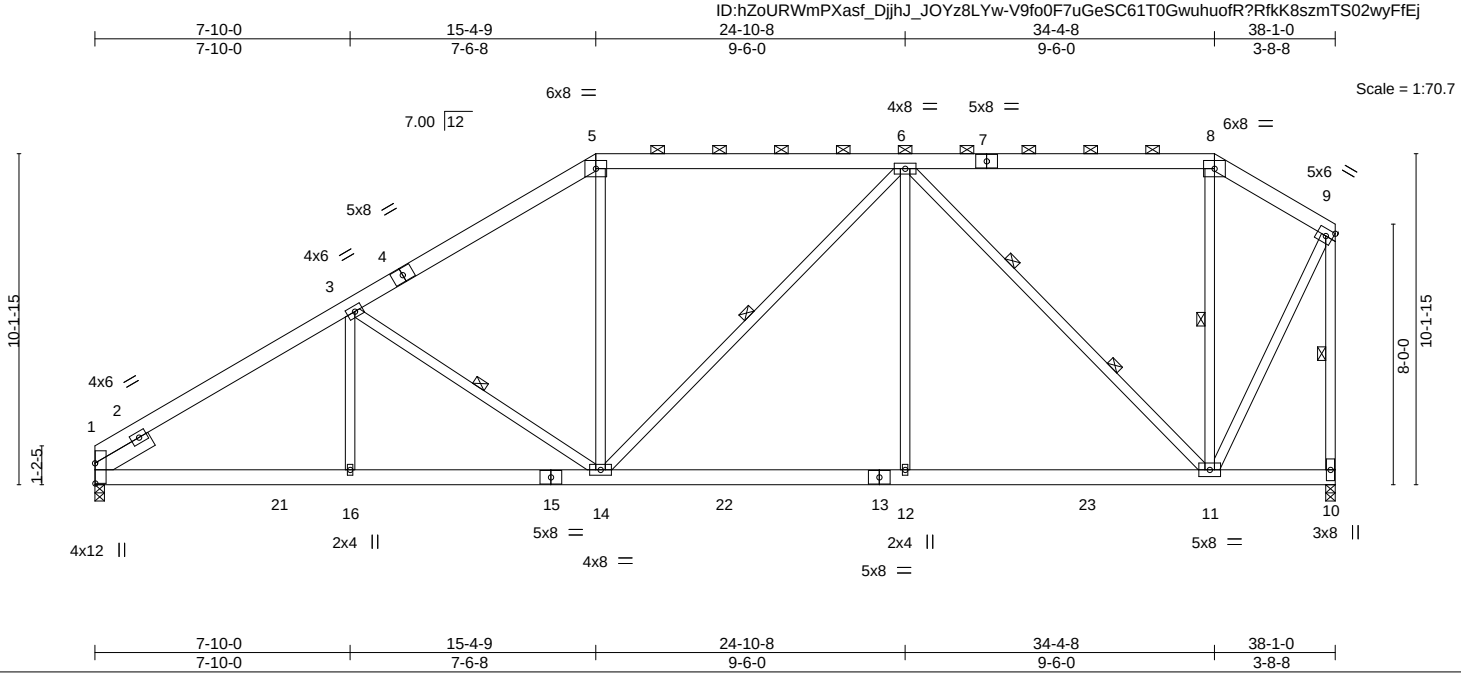


Plate Offsets (X,Y)-- [1:0-7-7,0-0-2]

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	0.58	Vert(LL)	-0.11	12-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.21	12-14	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.06	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.08	14-16	>999	240	Weight: 314 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3 *Except* 6-14,6-11,9-10: 2x4 SP No.2
SLIDER	Left 2x6 SP No.2 1-11-12

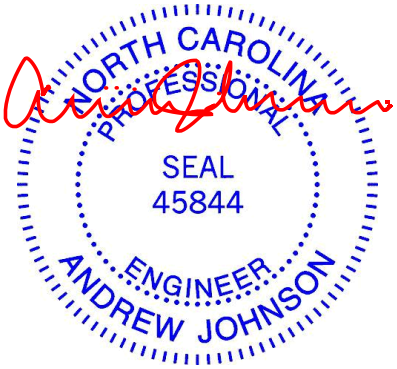
BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-9-12 oc purlins, except end verticals, and 2-0-0 oc purlins (5-5-7 max.): 5-8.
BOT CHORD	Rigid ceiling directly applied or 8-1-9 oc bracing.
WEBS	1 Row at midpt 3-14, 6-14, 8-11, 9-10 2 Rows at 1/3 pts 6-11

REACTIONS. (size) 1=0-3-8, 10=0-3-8
Max Horz 1=407(LC 12)
Max Uplift 1=-333(LC 12), 10=-312(LC 9)
Max Grav 1=1517(LC 1), 10=1559(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-2214/725, 3-5=-1825/691, 5-6=-1503/680, 6-8=-575/294, 8-9=-685/278, 9-10=-1563/568
BOT CHORD 1-16=-825/1836, 14-16=-825/1836, 12-14=-541/1516, 11-12=-541/1516
WEBS 3-14=-607/377, 5-14=-37/476, 6-14=-170/314, 6-12=0/543, 6-11=-1364/506, 9-11=-434/1304

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=333, 10=312.
7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 25,2020

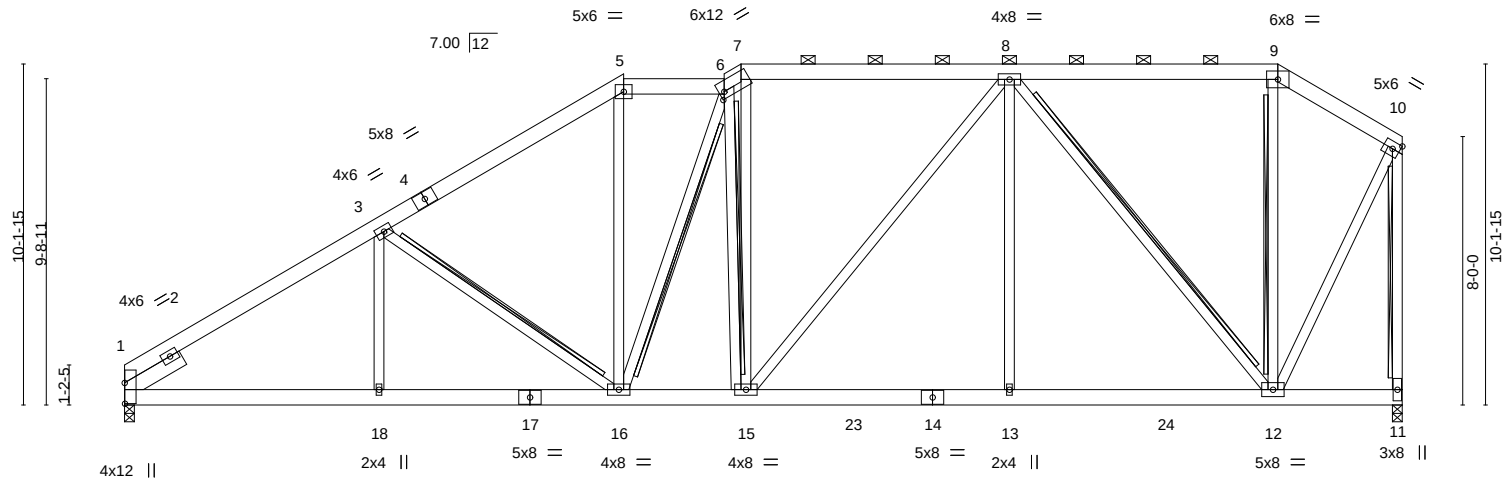
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	A15	Piggyback Base	1	1	I43774296
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:33:06 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-RYmYRw89oFivMLdPNLx9zDkoaELro3SGDnx76pyFfEh

7-7-0	14-10-8	17-10-7	18-4-8	26-4-8	34-4-8	38-1-0
7-7-0	7-3-8	2-11-15	0-6-1	8-0-0	8-0-0	3-8-8

Scale = 1:68.7



7-7-0	14-10-8	18-4-8	26-4-8	34-4-8	38-1-0
7-7-0	7-3-8	3-6-0	8-0-0	8-0-0	3-8-8

Plate Offsets (X,Y)-- [1:0-7-7,0-0-2], [6:0-1-13,0-2-6]

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	0.57	Vert(LL)	-0.09	13-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.18	16-18	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.05	11	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.08	16-18	>999	240	Weight: 351 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3 *Except* 10-11: 2x4 SP No.2
SLIDER	Left 2x6 SP No.2 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-10-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-8-5 max.): 5-6, 7-9.
BOT CHORD	Rigid ceiling directly applied or 8-1-7 oc bracing.
WEBS	T-Brace: 2x4 SPF No.2 - 3-16, 6-16, 6-15, 9-12, 10-11 2x6 SPF No.2 - 8-12 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance. Brace must cover 90% of web length.

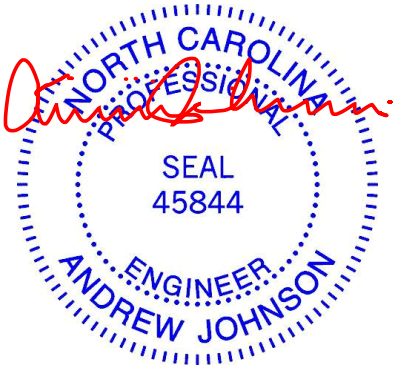
REACTIONS. (size) 1=0-3-8, 11=0-3-8
Max Horz 1=398(LC 12)
Max Uplift 1=-328(LC 12), 11=-300(LC 9)
Max Grav 1=1517(LC 1), 11=1522(LC 2)

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

TOP CHORD	1-3=-2215/723, 3-5=-1845/705, 5-6=-1501/687, 6-7=-1443/634, 7-8=-1506/690, 8-9=-551/293, 9-10=-663/281, 10-11=-1510/573
BOT CHORD	1-18=-827/1810, 16-18=-827/1810, 15-16=-598/1526, 13-15=-498/1354, 12-13=-498/1354
WEBS	3-16=-549/347, 5-16=-94/459, 6-16=-290/268, 6-15=-381/189, 7-15=-6/253, 8-15=-167/366, 8-13=0/460, 8-12=-1284/491, 10-12=-430/1249

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=328, 11=300.
7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
8) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



November 25,2020

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TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	A16	Piggyback Base	1	1	I43774297
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:33:07 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-wkKwfG9nZZqmzVCbx2SPVRHz?egiXVJPSRhgeFyFfEg

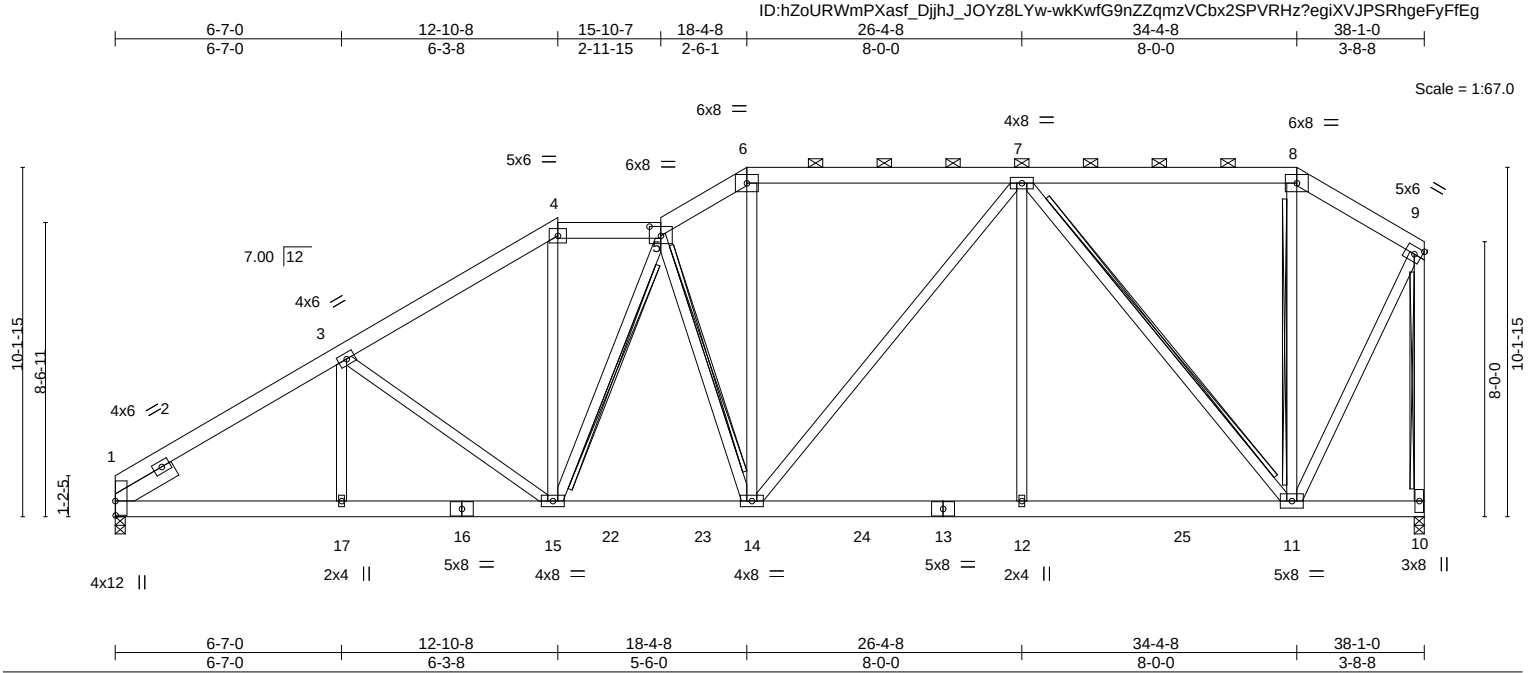

Plate Offsets (X,Y)-- [1:0-5-0,0-0-2], [5:0-4-0,0-3-4]

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	0.53	Vert(LL)	-0.09	12-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.18	12-14	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.06	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.09	15-17	>999	240	Weight: 343 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3 *Except* 9-10: 2x4 SP No.2
SLIDER	Left 2x6 SP No.2 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-11-12 oc purlins, except end verticals, and 2-0-0 oc purlins (5-7-8 max.): 4-5, 6-8.
BOT CHORD	Rigid ceiling directly applied or 8-0-12 oc bracing.
WEBS	T-Brace: 2x4 SPF No.2 - 5-15, 5-14, 8-11, 9-10 2x6 SPF No.2 - 7-11 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS. (size) 1=0-3-8, 10=0-3-8
Max Horz 1=407(LC 12)
Max Uplift 1=-370(LC 12), 10=-282(LC 9)
Max Grav 1=1517(LC 1), 10=1555(LC 2)

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

TOP CHORD	1-3=-2205/720, 3-4=-1930/721, 4-5=-1619/691, 5-6=-1806/741, 6-7=-1551/685, 7-8=-564/293, 8-9=-678/280, 9-10=-1544/572
BOT CHORD	1-17=-837/1804, 15-17=-837/1804, 14-15=-693/1744, 12-14=-498/1394, 11-12=-498/1394
WEBS	3-15=-396/271, 4-15=-139/606, 5-15=-384/218, 5-14=-741/389, 6-14=-165/640, 7-14=-209/362, 7-12=0/451, 7-11=-1327/492, 9-11=-429/1277

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=370, 10=282.
7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
8) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

November 25,2020

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	A17	Piggyback Base	1	1	I43774298
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:33:09 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-s7Sh4yB15A4UDoM_3TUtbsMKFSMa?MRiwkAnj8yFfEe

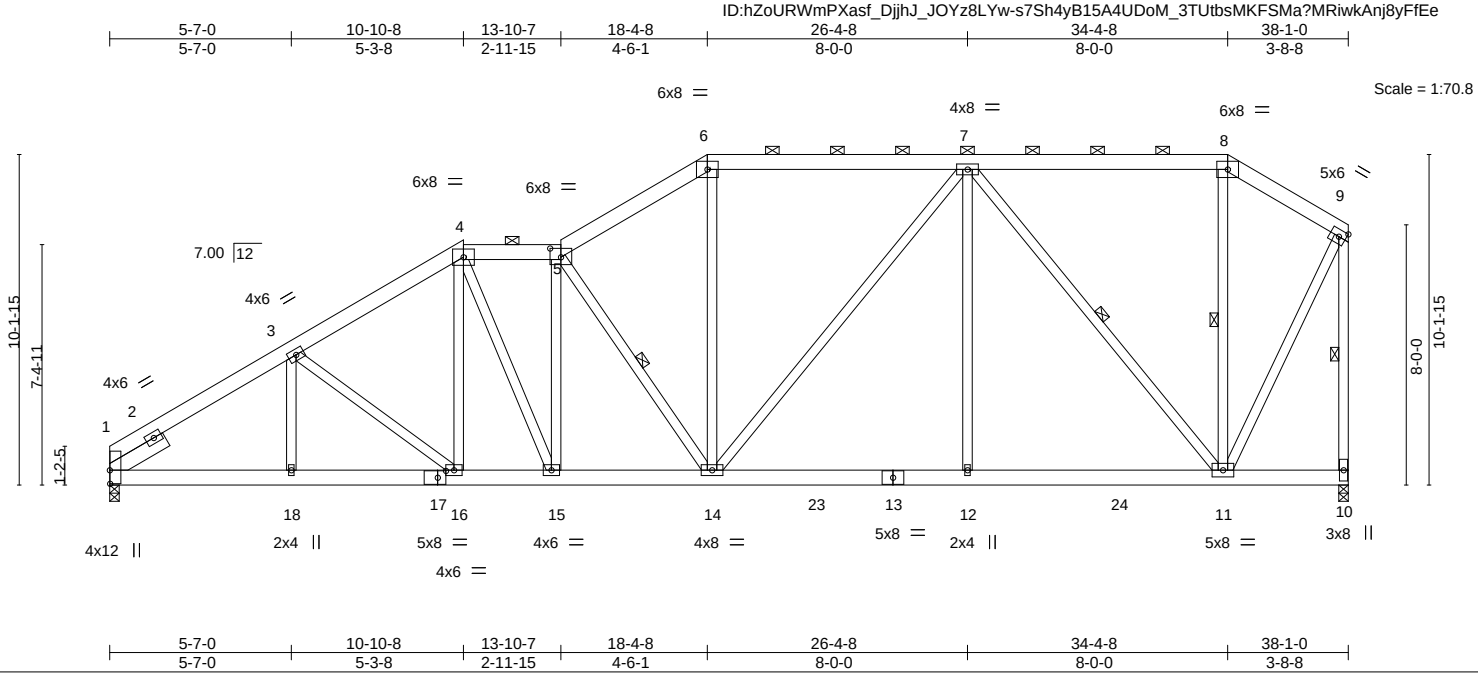

Plate Offsets (X,Y)-- [1:0-5-0,0-0-2], [5:0-4-0,0-3-4], [17:0-3-0,0-2-8]

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	0.48	Vert(LL)	-0.09	12-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.18	12-14	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.06	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.09	15	>999	240	Weight: 347 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
9-10: 2x4 SP No.2
SLIDER Left 2x6 SP No.2 1-11-12

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-1-10 oc purlins, except end verticals, and 2-0-0 oc purlins (5-3-8 max.): 4-5, 6-8.
BOT CHORD Rigid ceiling directly applied or 8-0-8 oc bracing.
WEBS 1 Row at midpt 5-14, 7-11, 8-11, 9-10

REACTIONS. (size) 1=0-3-8, 10=0-3-8
Max Horz 1=407(LC 12)
Max Uplift 1=-370(LC 12), 10=-282(LC 9)
Max Grav 1=1517(LC 1), 10=1522(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-2178/710, 3-4=-2029/737, 4-5=-1900/751, 5-6=-1787/724, 6-7=-1502/684, 7-8=-551/292, 8-9=-663/280, 9-10=-1511/572
BOT CHORD 1-18=-841/1780, 16-18=-841/1780, 15-16=-729/1717, 14-15=-785/1909, 12-14=-497/1355, 11-12=-497/1355
WEBS 4-16=-82/289, 4-15=-145/502, 5-15=-469/177, 5-14=-782/385, 6-14=-130/578, 7-14=-211/370, 7-12=0/456, 7-11=-1285/490, 9-11=-428/1248

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=370, 10=282.
7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

November 25,2020

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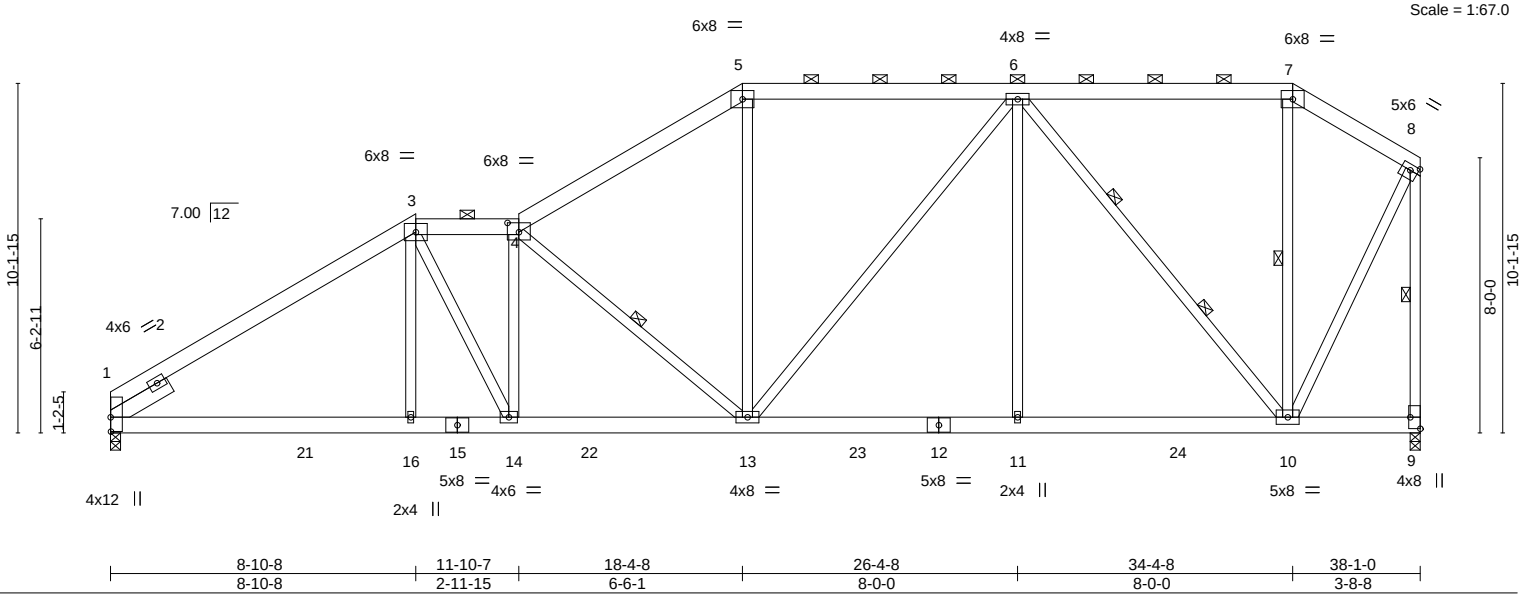
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	A18	Piggyback Base	1	1	I43774299
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:33:11 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-oVaRUeCHdoLCS6VMAuWLgHRdmF3jTJF?N2fuo0yFfEc

8-10-8	11-10-7	18-4-8	26-4-8	34-4-8	38-1-0
8-10-8	2-11-15	6-6-1	8-0-0	8-0-0	3-8-8

Scale = 1:67.0



8-10-8	11-10-7	18-4-8	26-4-8	34-4-8	38-1-0
8-10-8	2-11-15	6-6-1	8-0-0	8-0-0	3-8-8

Plate Offsets (X,Y)-- [1:0-5-0,0-0-2], [4:0-4-0,0-3-4], [8:0-2-12,0-2-0], [9:Edge,0-3-8]

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	0.67	Vert(LL)	-0.10	11-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.19	13-14	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.06	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.08	13-14	>999	240	Weight: 328 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3 *Except*
	8-9: 2x4 SP No.2
SLIDER	Left 2x6 SP No.2 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-5-10 oc purlins, except end verticals, and 2-0-0 oc purlins (4-11-14 max.): 3-4, 5-7.
BOT CHORD	Rigid ceiling directly applied or 7-4-3 oc bracing.
WEBS	1 Row at midpt 4-13, 7-10, 8-9
	2 Rows at 1/3 pts 6-10

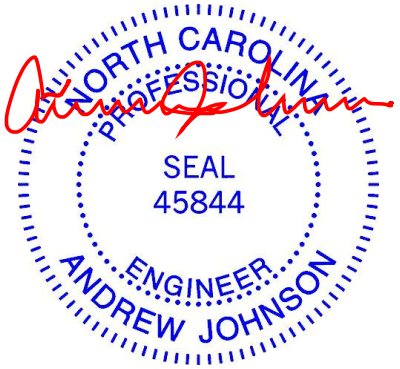
REACTIONS. (size) 1=0-3-8, 9=0-3-8
Max Horz 1=447(LC 11)
Max Uplift 1=-389(LC 12), 9=-298(LC 9)
Max Grav 1=1531(LC 2), 9=1562(LC 2)

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

TOP CHORD	1-3=-2253/774, 3-4=-2203/857, 4-5=-1892/770, 5-6=-1566/744, 6-7=-617/403, 7-8=-688/425, 8-9=-1551/578
BOT CHORD	1-16=-937/1875, 14-16=-938/1872, 13-14=-1020/2218, 11-13=-616/1401, 10-11=-616/1401
WEBS	3-14=-231/812, 4-14=-603/274, 4-13=-913/419, 5-13=-112/579, 6-13=-193/413, 6-11=0/451, 6-10=-1334/511, 8-10=-483/1283

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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, 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) 1=389, 9=298.
7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 25,2020

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	A19	Piggyback Base	1	1	I43774300
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:33:12 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-Gi7pi_DwO5T34G4Ykc2aCU_offPNCjy8ciORKSyFfEb

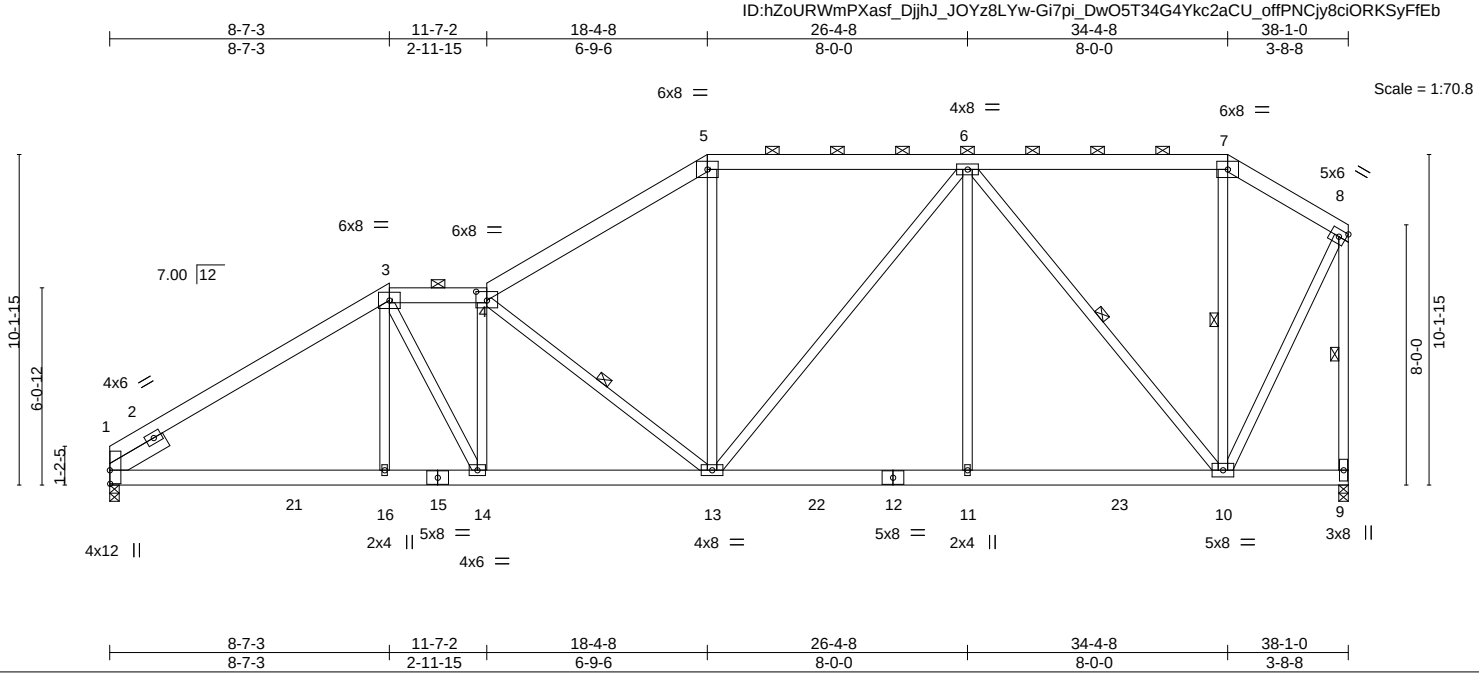


Plate Offsets (X,Y)-- [1:0-5-0,0-0-2], [4:0-4-0,0-3-4]

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	0.66	Vert(LL)	-0.10	11-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.19	11-13	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.06	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.09	13-14	>999	240	Weight: 328 lb	FT = 20%

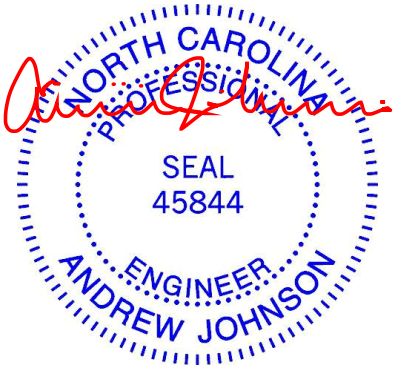
LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
8-9: 2x4 SP No.2
SLIDER Left 2x6 SP No.2 1-11-12

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-6-10 oc purlins, except end verticals, and 2-0-0 oc purlins (5-0-1 max.): 3-4, 5-7.
BOT CHORD Rigid ceiling directly applied or 7-9-10 oc bracing.
WEBS 1 Row at midpt 4-13, 6-10, 7-10, 8-9

REACTIONS. (size) 1=0-3-8, 9=0-3-8
Max Horz 1=407(LC 12)
Max Uplift 1=-370(LC 12), 9=-282(LC 9)
Max Grav 1=1517(LC 1), 9=1538(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-2200/721, 3-4=-2164/801, 4-5=-1846/698, 5-6=-1517/685, 6-7=-557/292, 7-8=-670/280, 8-9=-1527/571
BOT CHORD 1-16=-801/1790, 14-16=-802/1789, 13-14=-904/2181, 11-13=-495/1372, 10-11=-495/1372
WEBS 3-14=-211/831, 4-14=-631/259, 4-13=-901/423, 5-13=-68/543, 6-13=-219/391, 6-11=0/454, 6-10=-1303/488, 8-10=-428/1262

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=370, 9=282.
7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 25,2020

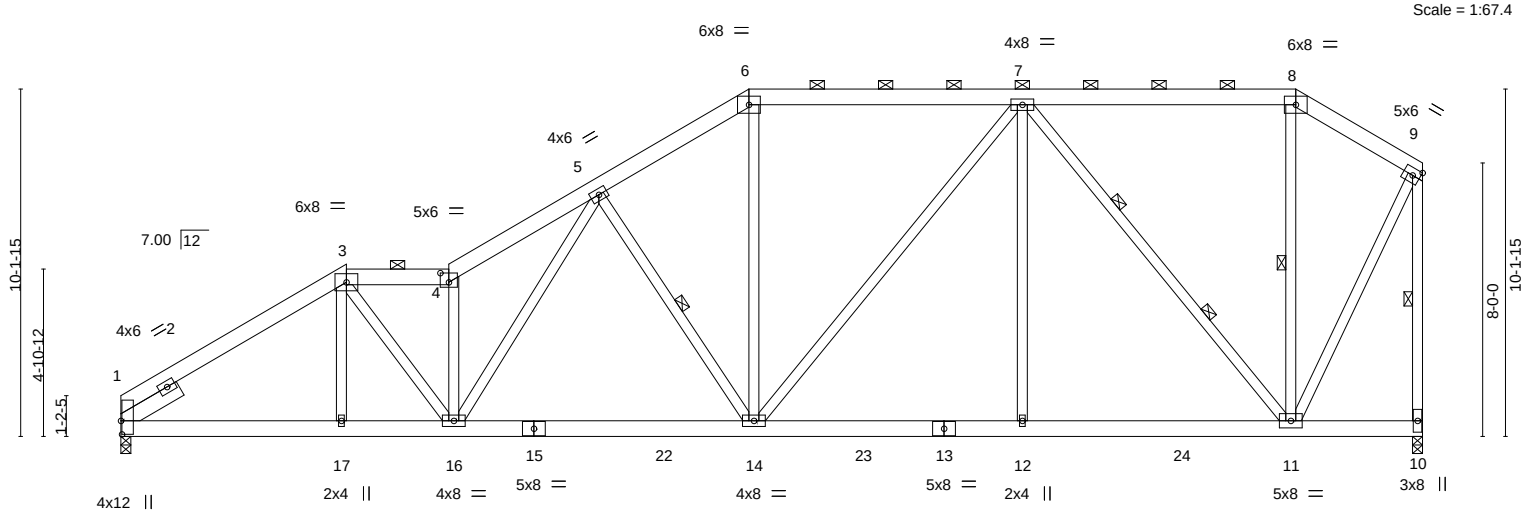
ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	A20	Piggyback Base	1	1	I43774301
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:33:14 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-C4Fa7gEAvjjnJaExr042lv3AkT2jgg_R30tYOLyFfEZ

6-7-3	9-7-2	13-11-13	18-4-8	26-4-8	34-4-8	38-1-0
6-7-3	2-11-15	4-4-11	4-4-11	8-0-0	8-0-0	3-8-8

Scale = 1:67.4



6-7-3	9-7-2	18-4-8	26-4-8	34-4-8	38-1-0
6-7-3	2-11-15	8-9-6	8-0-0	8-0-0	3-8-8

Plate Offsets (X,Y)-- [1:0-4-12,0-0-6], [4:0-3-0,0-3-4]

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	0.56	Vert(LL)	-0.14	14-16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.28	14-16	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.06	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.12	14-16	>999	240	Weight: 334 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3 *Except* 9-10: 2x4 SP No.2
SLIDER	Left 2x6 SP No.2 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-10-9 oc purlins, except end verticals, and 2-0-0 oc purlins (4-6-10 max.): 3-4, 6-8.
BOT CHORD	Rigid ceiling directly applied or 8-0-2 oc bracing.
WEBS	1 Row at midpt 5-14, 8-11, 9-10 2 Rows at 1/3 pts 7-11

REACTIONS. (size) 1=0-3-8, 10=0-3-8
Max Horz 1=407(LC 12)
Max Uplift 1=-370(LC 12), 10=-282(LC 9)
Max Grav 1=1517(LC 1), 10=1564(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-2206/723, 3-4=-2509/844, 4-5=-2891/1036, 5-6=-1876/727, 6-7=-1576/678, 7-8=-568/292, 8-9=-682/279, 9-10=-1555/570
BOT CHORD 1-17=-836/1813, 16-17=-837/1814, 14-16=-788/1937, 12-14=-496/1402, 11-12=-496/1402
WEBS 3-16=-279/1222, 4-16=-1614/635, 5-16=-368/1013, 5-14=-789/422, 6-14=-144/645, 7-14=-204/411, 7-12=0/429, 7-11=-1333/490, 9-11=-427/1287

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=370, 10=282.
7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

November 25,2020

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	A21	Piggyback Base	1	1	I43774302
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:33:15 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-hHpyK?Fog0rexjp7PkbHq7cM0tPxP4yaIgd5xnyFfEY

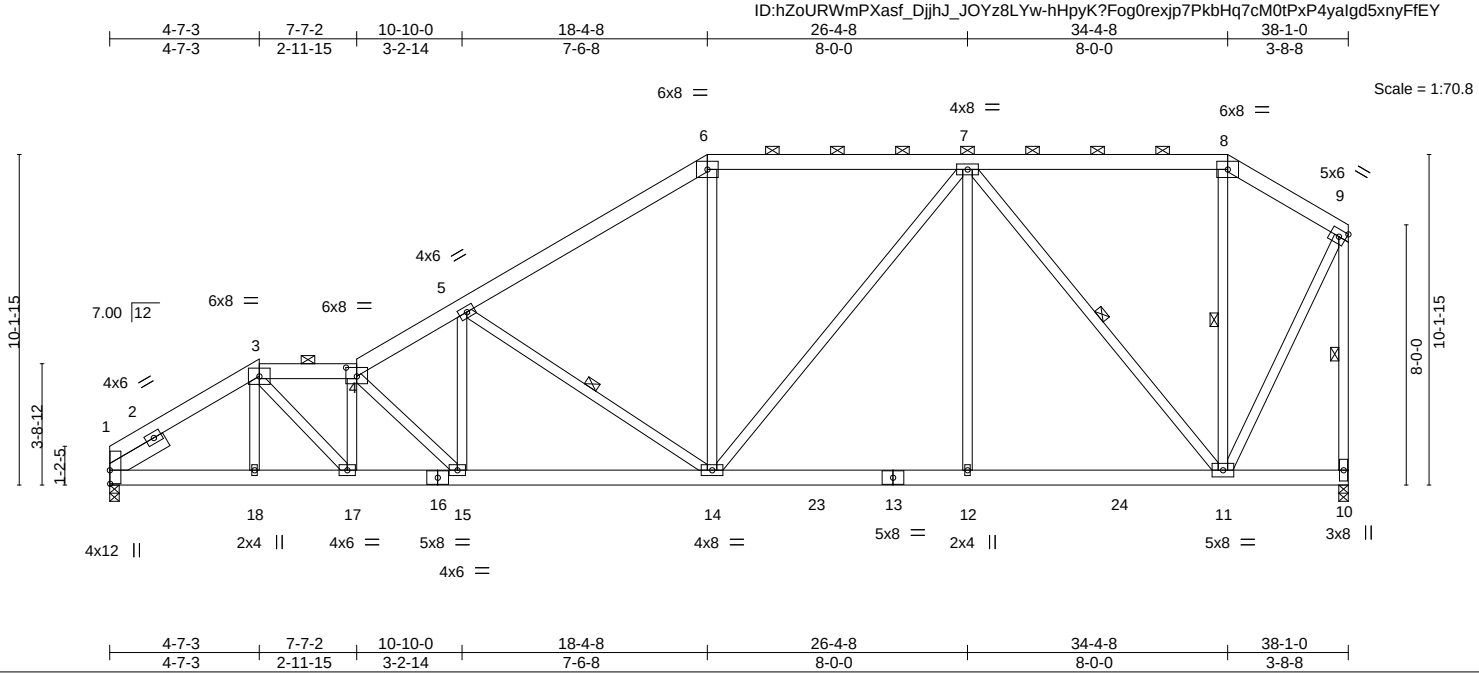


Plate Offsets (X,Y)-- [1:0-5-0,0-0-2], [4:0-4-0,0-3-4]

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	0.46	Vert(LL)	-0.10	14-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.22	14-15	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.06	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.12	14-15	>999	240	Weight: 332 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
9-10: 2x4 SP No.2
SLIDER Left 2x6 SP No.2 1-11-12

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-2-7 oc purlins, except end verticals, and 2-0-0 oc purlins (4-3-11 max.): 3-4, 6-8.
BOT CHORD Rigid ceiling directly applied or 6-11-6 oc bracing.
WEBS 1 Row at midpt 5-14, 7-11, 8-11, 9-10

REACTIONS. (size) 1=0-3-8, 10=0-3-8
Max Horz 1=407(LC 12)
Max Uplift 1=-370(LC 12), 10=-282(LC 9)
Max Grav 1=1517(LC 1), 10=1522(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-2158/699, 3-4=-2713/909, 4-5=-2665/892, 5-6=-1862/694, 6-7=-1508/682, 7-8=-551/292, 8-9=-663/279, 9-10=-1511/570
BOT CHORD 1-18=-847/1779, 17-18=-851/1784, 15-17=-1134/2757, 14-15=-953/2280, 12-14=-494/1353, 11-12=-494/1353
WEBS 3-17=-412/1424, 4-17=-988/323, 4-15=-682/258, 5-15=-104/615, 5-14=-1008/471, 6-14=-61/519, 7-14=-218/404, 7-12=0/452, 7-11=-1282/487, 9-11=-427/1249

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=370, 10=282.
7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

November 25,2020

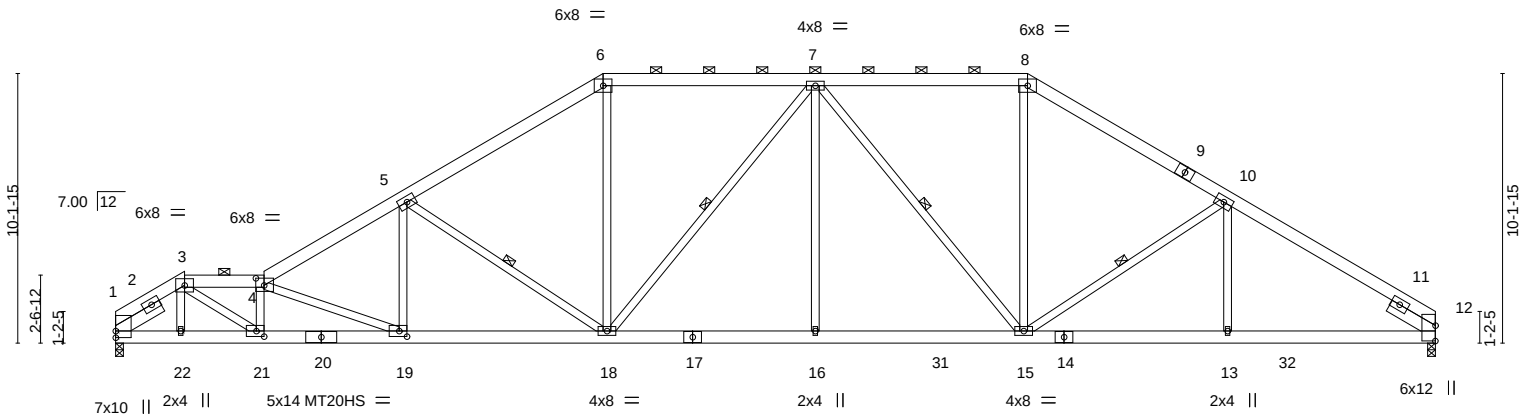
ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	A22	Piggyback Base	1	1	I43774303
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:33:17 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-dfxilhH2Ce5LA1zWX9dlvYhcZg5Ht0Utl_6C?gyFfEW

2-7-3	5-7-2	10-10-0	18-4-8	26-4-8	34-4-8	41-11-0	49-9-0
2-7-3	2-11-15	5-2-14	7-6-8	8-0-0	8-0-0	7-6-8	7-10-0

Scale = 1:86.9



2-7-3	5-7-2	10-10-0	18-4-8	26-4-8	34-4-8	41-11-0	49-9-0
2-7-3	2-11-15	5-2-14	7-6-8	8-0-0	8-0-0	7-6-8	7-10-0

Plate Offsets (X,Y)-- [4:0-3-12,0-3-4], [12:0-7-0,0-0-1], [19:0-3-8,0-2-8], [21:0-3-8,0-2-8]

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	0.84	Vert(LL)	-0.20	16-18	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.40	16-18	>999	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.86	Horz(CT)	0.15	12	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.19	18-19	>999	240	Weight: 390 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.3 *Except* 3-21: 2x4 SP No.2
SLIDER	Left 2x6 SP No.2 1-11-12, Right 2x6 SP No.2 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except 2-0-0 oc purlins (3-3-15 max.): 3-4, 6-8.
BOT CHORD	Rigid ceiling directly applied or 6-5-8 oc bracing.
WEBS	1 Row at midpt 5-18, 7-18, 7-15, 10-15

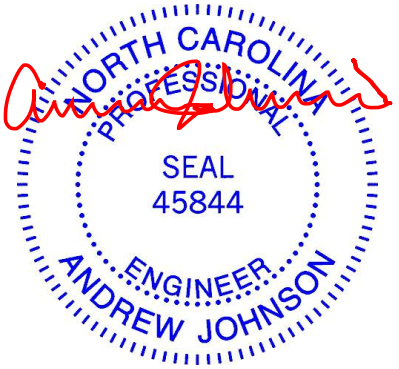
REACTIONS. (size) 1=0-3-8, 12=0-3-8
Max Horz 1=301(LC 9)
Max Uplift 1=-456(LC 12), 12=-411(LC 13)
Max Grav 1=1990(LC 1), 12=1990(LC 1)

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

TOP CHORD	1-3=-2672/931, 3-4=-4396/1524, 4-5=-3828/1352, 5-6=-2900/1126, 6-7=-2411/1058, 7-8=-2224/993, 8-10=-2672/1050, 10-12=-3010/1055
BOT CHORD	1-22=-717/2183, 21-22=-725/2198, 19-21=-1495/4507, 18-19=-1020/3259, 16-18=-688/2619, 15-16=-688/2619, 13-15=-764/2481, 12-13=-764/2481
WEBS	3-21=-911/2749, 4-21=-1625/618, 4-19=-1348/513, 5-19=-121/678, 5-18=-1120/497, 6-18=-279/1027, 7-18=-518/331, 7-16=0/438, 7-15=-736/351, 8-15=-238/903, 10-15=-516/360

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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) All plates are MT20 plates unless otherwise indicated.
5) All plates are 5x8 MT20 unless otherwise indicated.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=456, 12=411.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 25,2020

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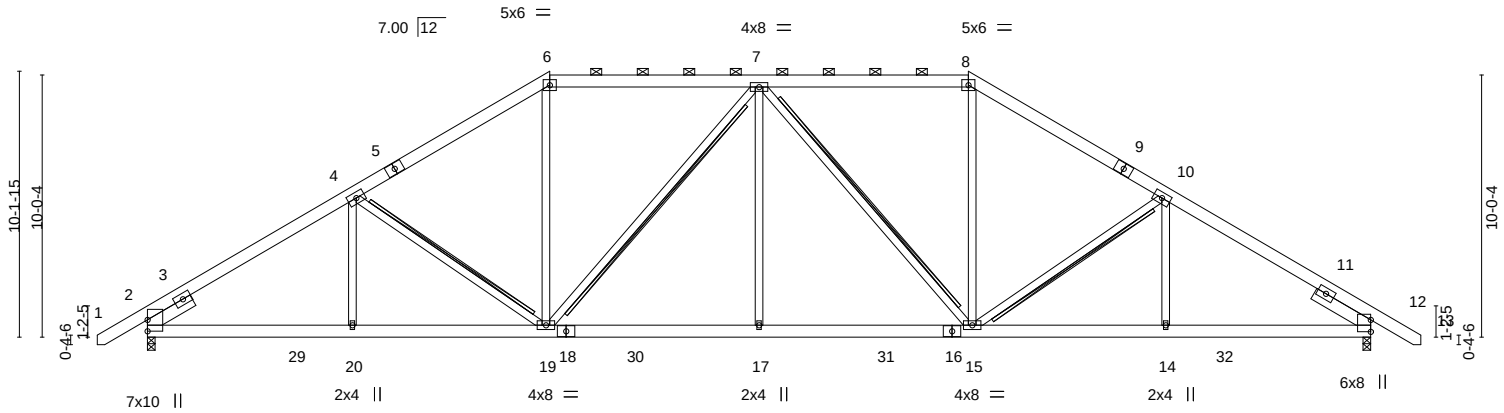
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	B01	HIP	1	1	I43774304
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:33:18 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-5sV4y1lgzxDCoBYi4s8_SlEnM4ODcYT1_ermX6yFfEV

1-11-0	7-10-0	15-4-8	23-4-8	31-4-8	38-11-0	46-9-0	48-8-0
1-11-0	7-10-0	7-6-8	8-0-0	8-0-0	7-6-8	7-10-0	1-11-0

Scale = 1:88.1



7-10-0	15-4-8	23-4-8	31-4-8	38-11-0	46-9-0
7-10-0	7-6-8	8-0-0	8-0-0	7-6-8	7-10-0

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	0.84	Vert(LL)	-0.16	17-19	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.32	17-19	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.13	12	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.12	17	>999	240	Weight: 368 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3 *Except* 7-19,7-15: 2x4 SP No.2
SLIDER	Left 2x6 SP No.2 1-11-12, Right 2x6 SP No.2 2-5-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except 2-0-0 oc purlins (4-10-1 max.): 6-8.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	T-Brace: 2x4 SPF No.2 - 4-19, 7-19, 7-15, 10-15 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance. Brace must cover 90% of web length.

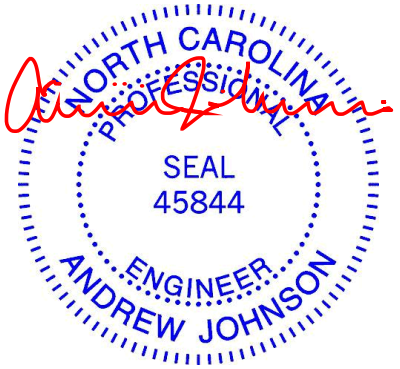
REACTIONS. (size) 2=0-3-8, 12=0-3-8
Max Horz 2=331(LC 11)
Max Uplift 2=-457(LC 12), 12=-457(LC 13)
Max Grav 2=1976(LC 1), 12=1976(LC 1)

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

TOP CHORD	2-4=-2784/975, 4-6=-2460/975, 6-7=-2059/924, 7-8=-2058/923, 8-10=-2451/974, 10-12=-2777/977
BOT CHORD	2-20=-643/2311, 19-20=-643/2311, 17-19=-555/2405, 15-17=-555/2405, 14-15=-652/2288, 12-14=-652/2288
WEBS	4-19=-502/346, 6-19=-195/800, 7-19=-643/340, 7-17=0/456, 7-15=-644/339, 8-15=-195/799, 10-15=-504/348

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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) All plates are 5x8 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.
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) except (jt=lb) 2=457, 12=457.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



November 25,2020

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	B02	HIP	1	1	I43774305 Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:33:20 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-1EcrNjJxVZTw1Vh5CHBSXAJ9Nu2Q4RrJRyKsc?yFfET

1-11-0	6-10-0	13-4-8	20-0-8	26-8-8	33-4-8	39-11-0	46-9-0	48-8-0
1-11-0	6-10-0	6-6-8	6-8-0	6-8-0	6-8-0	6-6-8	6-10-0	1-11-0

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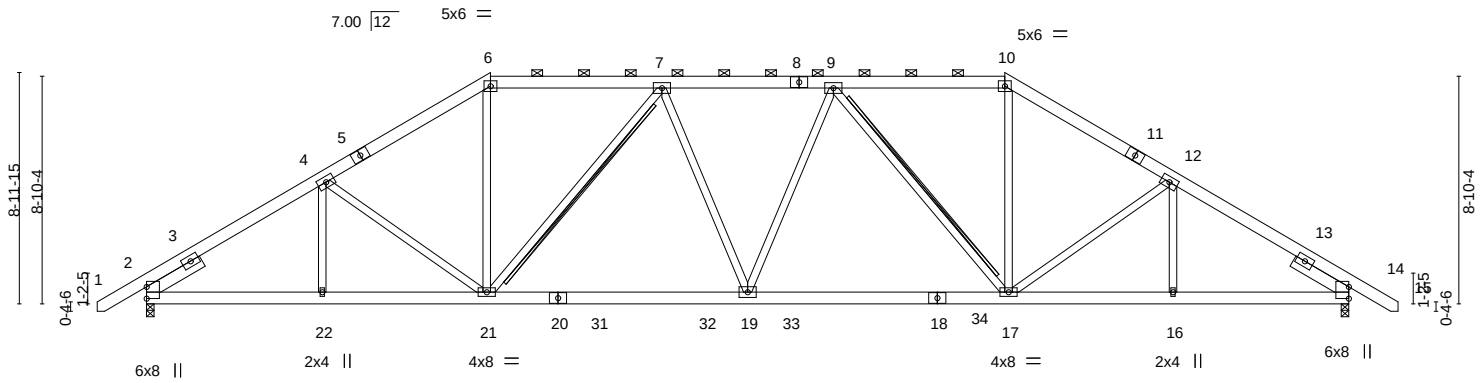


6-10-0	13-4-8	23-4-8	33-4-8	39-11-0	46-9-0
6-10-0	6-6-8	10-0-0	10-0-0	6-6-8	6-10-0

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	0.68	Vert(LL)	-0.19	17-19	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.37	19-21	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.13	14	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.14	19	>999	240	Weight: 366 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3
SLIDER	Left 2x6 SP No.2 2-5-12, Right 2x6 SP No.2 2-5-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-1-2 oc purlins, except 2-0-0 oc purlins (4-4-14 max.): 6-10.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	T-Brace: 2x4 SPF No.2 - 7-21, 9-17 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS. (size) 2=0-3-8, 14=0-3-8
Max Horz 2=-292(LC 10)
Max Uplift 2=-431(LC 12), 14=-431(LC 13)
Max Grav 2=1976(LC 1), 14=1976(LC 1)

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

TOP CHORD	2-4=-2755/983, 4-6=-2541/999, 6-7=-2137/935, 7-9=-2659/1085, 9-10=-2137/935, 10-12=-2541/999, 12-14=-2755/983
BOT CHORD	2-22=-659/2266, 21-22=-659/2266, 19-21=-690/2578, 17-19=-691/2578, 16-17=-668/2266, 14-16=-668/2266
WEBS	4-21=-349/291, 6-21=-242/879, 7-21=-793/403, 7-19=-22/291, 9-19=-22/291, 9-17=-793/403, 10-17=-242/879, 12-17=-349/292

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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) All plates are 5x8 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.
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) except (jt=lb) 2=431, 14=431.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

November 25,2020

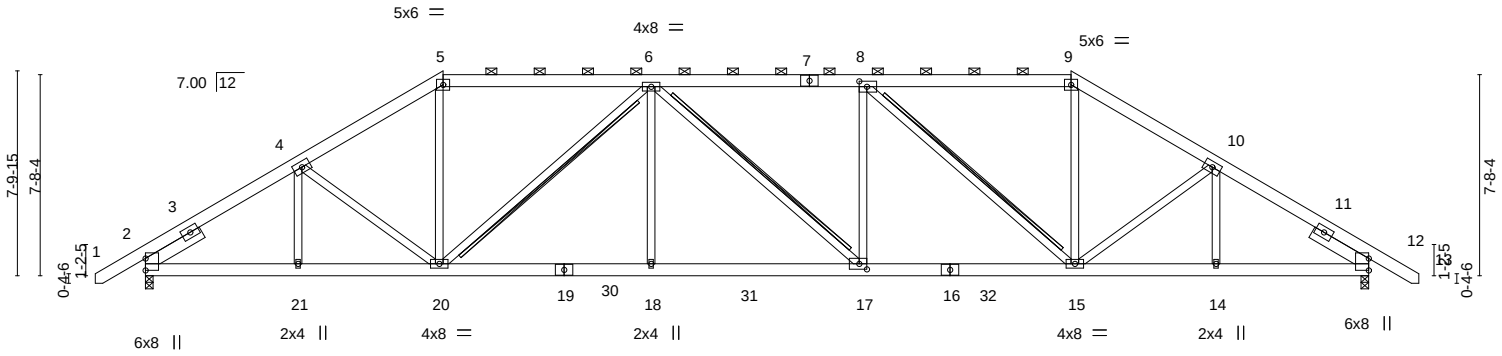
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	B03	HIP	1	1	I43774306
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:33:22 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-_dkboPLB1AjeHorTJiDwcbPWvhlfYHIcvGpzgtyFfER

1-11-0	5-10-0	11-4-8	19-3-15	27-5-1	35-4-8	40-11-0	46-9-0	48-8-0
1-11-0	5-10-0	5-6-8	7-11-7	8-1-3	7-11-7	5-6-8	5-10-0	1-11-0

Scale = 1:88.1



5-10-0	11-4-8	19-3-15	27-5-1	35-4-8	40-11-0	46-9-0
5-10-0	5-6-8	7-11-7	8-1-3	7-11-7	5-6-8	5-10-0

Plate Offsets (X,Y)-- [8:0-3-8,0-2-8], [17:0-3-8,0-2-8]

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	0.61	Vert(LL)	-0.18	17-18	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.37	17-18	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.13	12	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.19	17-18	>999	240	Weight: 366 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3
SLIDER	Left 2x6 SP No.2 2-5-12, Right 2x6 SP No.2 2-5-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-4-2 oc purlins, except 2-0-0 oc purlins (4-0-10 max.): 5-9.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	T-Brace: 2x4 SPF No.2 - 6-20, 6-17, 8-15 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS. (size) 2=0-3-8, 12=0-3-8
Max Horz 2=-254(LC 10)
Max Uplift 2=-402(LC 12), 12=-402(LC 13)
Max Grav 2=1976(LC 1), 12=1976(LC 1)

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

TOP CHORD	2-4=-2719/980, 4-5=-2627/1025, 5-6=-2232/952, 6-8=-3015/1229, 8-9=-2231/952, 9-10=-2627/1025, 10-12=-2719/980
BOT CHORD	2-21=-664/2231, 20-21=-664/2231, 18-20=-865/3045, 17-18=-865/3045, 15-17=-865/3015, 14-15=-675/2231, 12-14=-675/2231
WEBS	4-20=-262/225, 5-20=-245/910, 6-20=-1167/466, 6-18=0/399, 8-17=0/345, 8-15=-1149/464, 9-15=-244/903, 10-15=-264/226

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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) All plates are 5x8 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.
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) except (jt=lb) 2=402, 12=402.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

November 25,2020

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	B04	HIP	1	1	I43774307
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:33:23 2020 Page 1
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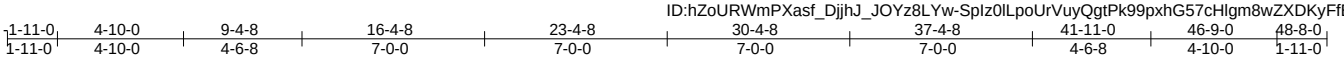

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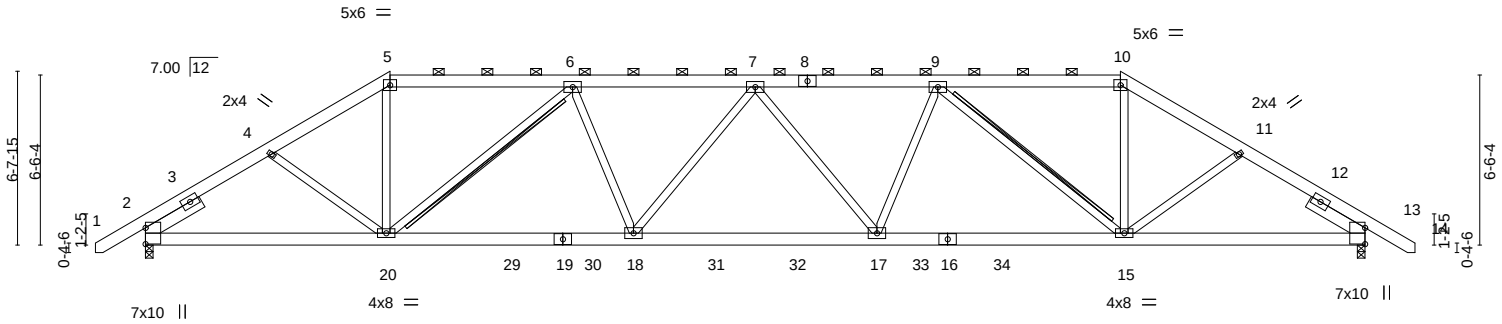
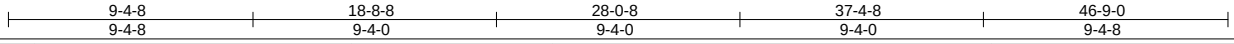




LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.21	17-18	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.44	17-18	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.14	13	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.23	17-18	>999	240	Weight: 347 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3
SLIDER	Left 2x6 SP No.2 2-5-12, Right 2x6 SP No.2 2-5-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-3-1 oc purlins, except 2-0-0 oc purlins (3-9-8 max.): 5-10.
BOT CHORD	Rigid ceiling directly applied or 6-10-10 oc bracing.
WEBS	T-Brace: 2x4 SPF No.2 - 6-20, 9-15 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS. (size) 2=0-3-8, 13=0-3-8
Max Horz 2=215(LC 11)
Max Uplift 2=-420(LC 9), 13=-420(LC 8)
Max Grav 2=1976(LC 1), 13=1976(LC 1)

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

TOP CHORD	2-4=-2725/1021, 4-5=-2682/1018, 5-6=-2298/944, 6-7=-3452/1354, 7-9=-3452/1354, 9-10=-2298/944, 10-11=-2682/1018, 11-13=-2725/1020
BOT CHORD	2-20=-691/2199, 18-20=-1033/3296, 17-18=-1156/3612, 15-17=-1036/3296, 13-15=-703/2199
WEBS	4-20=-193/277, 5-20=-258/924, 6-20=-1369/579, 6-18=-72/548, 7-18=-307/226, 7-17=-307/226, 9-17=-72/548, 9-15=-1369/578, 10-15=-258/924, 11-15=-194/277

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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) All plates are 5x8 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.
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) except (jt=lb) 2=420, 13=420.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

November 25,2020

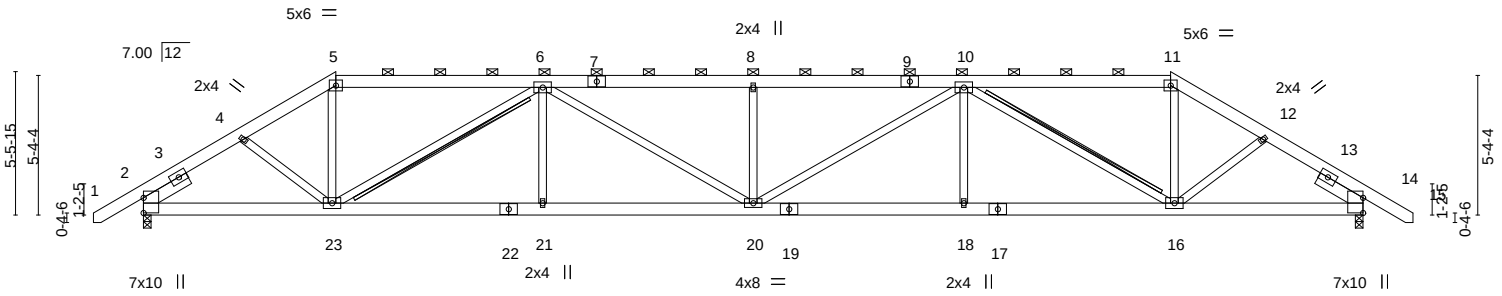
ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	B05	HIP	1	1	I43774308
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:33:26 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-sO_6emOi5PE4lQ9FYYIsnRZHFIGSU6vCqunBpeyFfEN

1-11-0	3-10-0	7-4-8	15-3-10	23-4-8	31-5-6	39-4-8	42-11-0	46-9-0	48-8-0
1-11-0	3-10-0	3-6-8	7-11-2	8-0-14	8-0-14	7-11-2	3-6-8	3-10-0	1-11-0

Scale = 1:88.3



7-4-8	15-3-10	23-4-8	31-5-6	39-4-8	46-9-0
7-4-8	7-11-2	8-0-14	8-0-14	7-11-2	7-4-8

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	0.27	Vert(LL)	-0.23	20	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.46	20-21	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.12	14	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.28	20	>999	240	Weight: 343 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP DSS
BOT CHORD	2x6 SP DSS
WEBS	2x4 SP No.3
SLIDER	Left 2x6 SP No.2 1-11-12, Right 2x6 SP No.2 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-9-13 oc purlins, except 2-0-0 oc purlins (3-11-4 max.): 5-11.
BOT CHORD	Rigid ceiling directly applied or 7-6-7 oc bracing.
WEBS	T-Brace: 2x6 SPF No.2 - 6-23, 10-16 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS. (size) 2=0-3-8, 14=0-3-8
Max Horz 2=176(LC 11)
Max Uplift 2=-482(LC 9), 14=-482(LC 8)
Max Grav 2=1976(LC 1), 14=1976(LC 1)

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

TOP CHORD	2-4=-2651/987, 4-5=-2716/1022, 5-6=-2352/948, 6-8=-4513/1744, 8-10=-4513/1744, 10-11=-2352/948, 11-12=-2716/1022, 12-14=-2651/987
BOT CHORD	2-23=-667/2089, 21-23=-1308/3990, 20-21=-1308/3990, 18-20=-1311/3990, 16-18=-1311/3990, 14-16=-675/2089
WEBS	4-23=-221/447, 5-23=-242/878, 6-23=-1958/743, 6-21=0/329, 6-20=-260/654, 8-20=-477/324, 10-20=-262/654, 10-18=0/329, 10-16=-1958/742, 11-16=-242/878, 12-16=-223/447

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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) All plates are 5x8 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.
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) except (jt=lb) 2=482, 14=482.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

November 25,2020

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	B06	HIP GIRDER	1	3	I43774309
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:33:31 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-DMn?hUSqvxsMsB1CL5t1UVGAcJx09TtxzAVyVsyFfEI

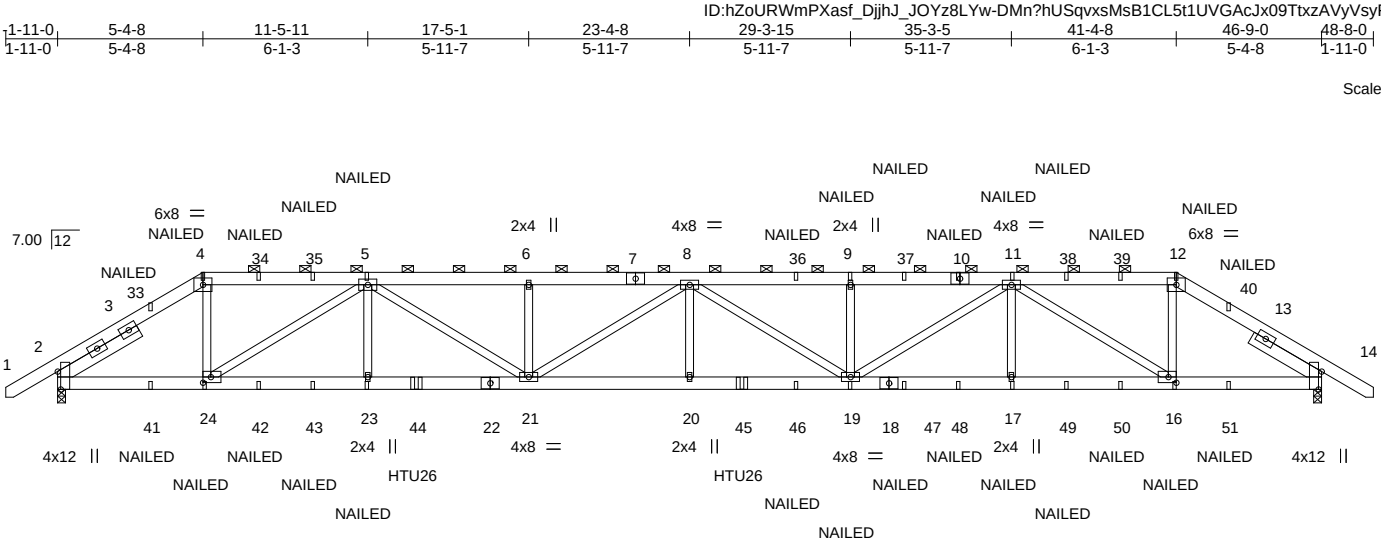


Plate Offsets (X,Y)-- [2:0-7-15,Edge], [14:0-7-15,Edge], [16:0-3-8,0-2-8], [24:0-3-8,0-2-8]

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	0.17	Vert(LL)	0.39	19-20	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.50	19-20	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.35	Horz(CT)	0.10	14	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 1030 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP DSS
BOT CHORD 2x6 SP DSS
WEBS 2x4 SP No.2
SLIDER Left 2x6 SP No.2 3-5-12, Right 2x6 SP No.2 2-11-12

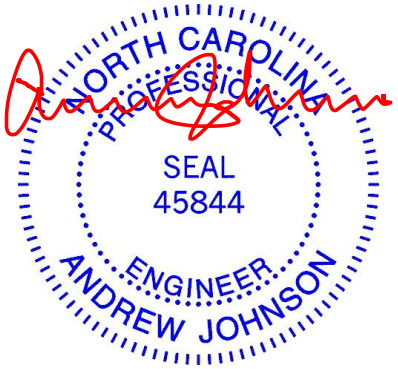
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-12.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 14=0-3-8
Max Horz 2=-140(LC 25)
Max Uplift 2=-1812(LC 5), 14=-1795(LC 4)
Max Grav 2=3845(LC 1), 14=3609(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-5667/2813, 4-5=-4803/2429, 5-6=-11255/5337, 6-8=-11255/5337, 8-9=-11199/5581, 9-11=-11199/5581, 11-12=-4500/2412, 12-14=-5324/2796
BOT CHORD 2-24=-2381/4700, 23-24=-4504/9321, 21-23=-4504/9321, 20-21=-5827/12178, 19-20=-5827/12178, 17-19=-4353/8509, 16-17=-4353/8509, 14-16=-2250/4403
WEBS 4-24=-1232/2745, 5-24=-5407/2536, 5-23=-340/1113, 5-21=-1025/2316, 6-21=-329/269, 8-21=-1112/629, 8-20=-232/856, 8-19=-1179/336, 9-19=-519/461, 11-19=-1423/3218, 11-17=0/424, 11-16=-4800/2452, 12-16=-1239/2567

NOTES-
1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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
5) Provide adequate drainage to prevent water ponding.
6) All plates are 5x8 MT20 unless otherwise indicated.
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) except (jt=lb) 2=1812, 14=1795.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 12-0-8 oc max. starting at 13-3-4 from the left end to 25-3-12 to connect truss(es) to back face of bottom chord.
12) Fill all nail holes where hanger is in contact with lumber.

Continued on page 2



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A MiTek Affiliate
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Edenton, NC 27932

NOTES-

13) "NAILED" indicates 3-10d Nails (0.148" x 3") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

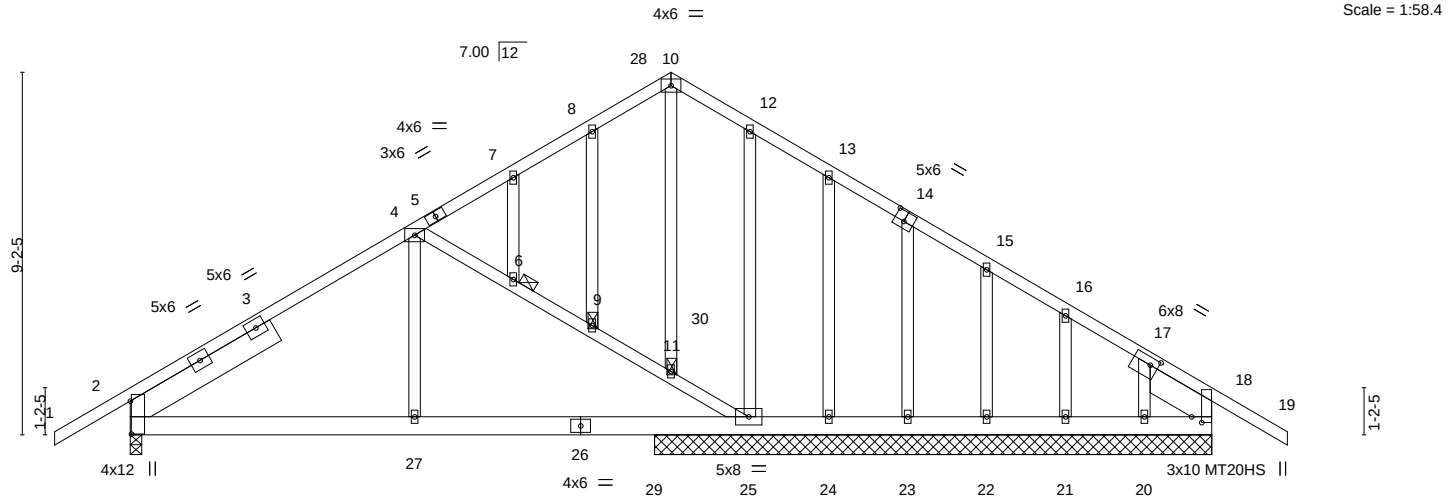
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-4=-60, 4-12=-60, 12-15=-60, 25-29=-20
   Concentrated Loads (lb)
   Vert: 4=-70(B) 12=-70(B) 24=-32(B) 5=-70(B) 23=-32(B) 9=-70(B) 19=-32(B) 17=-32(B) 16=-32(B) 11=-70(B) 10=-70(B) 34=-70(B) 35=-70(B) 36=-70(B) 37=-70(B) 38=-70(B) 39=-70(B) 41=-112(B) 42=-32(B) 43=-32(B) 44=-1023(B) 45=-1023(B) 46=-32(B) 47=-32(B) 48=-32(B) 49=-32(B) 50=-32(B) 51=-112(B)

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	C01	GABLE	1	1	I43774310
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:33:32 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-hYLNupSTgF_DTLcPvoPG0ipG2jGruyn5CpEV1IyFfEH

-1-11-0 | 7-2-8 | 13-8-8 | 27-5-0 | 29-4-0
1-11-0 | 7-2-8 | 6-6-0 | 13-8-8 | 1-11-0

Scale = 1:58.4



7-2-8 | 13-3-8 | 27-5-0
7-2-8 | 6-1-0 | 14-1-8

Plate Offsets (X,Y)-- [2:0-10-1,0-0-5], [14:0-3-0,0-3-0], [17:0-2-8,0-2-4], [18:0-1-12,0-3-1]

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	0.51	Vert(LL)	-0.06	25-27	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.14	25-27	>999	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.24	Horz(CT)	0.02	18	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S		Wind(LL)	0.03	25-27	>999	240	Weight: 221 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3
SLIDER	Left 2x8 SP DSS 4-3-8, Right 2x8 SP DSS 2-0-2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-7-15 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS	1 Brace at Jt(s): 11, 9, 6

REACTIONS. All bearings 14-1-8 except (jt=length) 2=0-3-8.
(lb) - Max Horz 2=-304(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 22, 21, 18 except 2=-295(LC 12), 24=-158(LC 13), 23=-230(LC 3), 20=-236(LC 22)
Max Grav All reactions 250 lb or less at joint(s) 21, 20 except 2=1124(LC 1), 24=751(LC 1), 22=260(LC 20), 18=834(LC 19)

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

TOP CHORD	2-4=-1394/298, 4-7=-743/192, 7-8=-677/221, 8-10=-697/270, 10-12=-690/274, 12-13=-756/248, 13-14=-702/202, 14-15=-749/164, 15-16=-756/123, 16-17=-775/83, 17-18=-999/89, 4-6=-720/306, 6-9=-763/327, 9-11=-843/368, 11-25=-671/309
BOT CHORD	2-27=-271/1250, 25-27=-271/1250, 24-25=-54/677, 23-24=-54/677, 22-23=-54/677, 21-22=-54/677, 20-21=-54/677, 18-20=-54/677
WEBS	10-11=-136/394, 13-24=-314/131, 17-20=-61/263, 4-27=0/351

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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 MT20 plates unless otherwise indicated.
5) All plates are 2x4 MT20 unless otherwise indicated.
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) 22, 21, 18 except (jt=lb) 2=295, 24=158, 23=230, 20=236.
10) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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LOAD CASE(S) Standard

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LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-4=-60, 10-28=-60, 10-19=-60, 2-27=-20, 18-29=-20, 25-30=-30(F)
   Trapezoidal Loads (plf)
   Vert: 4=-61(F=-1)-to-28=-66(F=-6), 27=-21(F=-1)-to-29=-26(F=-6), 4=-31(F)-to-30=-36(F)
2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-4=-50, 10-28=-50, 10-19=-50, 2-27=-20, 18-29=-20, 25-30=-26(F)
   Trapezoidal Loads (plf)
   Vert: 4=-51(F=-1)-to-28=-56(F=-6), 27=-21(F=-1)-to-29=-26(F=-6), 4=-27(F)-to-30=-32(F)
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-4=-20, 10-28=-20, 10-19=-20, 2-27=-40, 18-29=-40, 25-30=-23(F)
   Trapezoidal Loads (plf)
   Vert: 4=-21(F=-1)-to-28=-26(F=-6), 27=-41(F=-1)-to-29=-46(F=-6), 4=-24(F)-to-30=-28(F)
4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=63, 2-4=37, 10-28=37, 10-18=37, 18-19=30, 2-27=-12, 18-29=-12, 25-30=9(F)
   Horz: 1-2=-75, 2-4=-49, 4-10=-49, 10-18=49, 18-19=42
   Trapezoidal Loads (plf)
   Vert: 4=36(F=-1)-to-28=31(F=-6), 27=-13(F=-1)-to-29=-18(F=-6), 4=8(F)-to-30=3(F)
5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=30, 2-4=37, 10-28=37, 10-18=37, 18-19=63, 2-27=-12, 18-29=-12, 25-30=9(F)
   Horz: 1-2=-42, 2-4=-49, 4-10=-49, 10-18=49, 18-19=75
   Trapezoidal Loads (plf)
   Vert: 4=36(F=-1)-to-28=31(F=-6), 27=-13(F=-1)-to-29=-18(F=-6), 4=8(F)-to-30=3(F)
6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=13, 2-4=-61, 10-28=-61, 10-18=-61, 18-19=-53, 2-27=-20, 18-29=-20, 25-30=-30(F)
   Horz: 1-2=-33, 2-4=41, 4-10=41, 10-18=-41, 18-19=-33
   Trapezoidal Loads (plf)
   Vert: 4=-62(F=-1)-to-28=-67(F=-6), 27=-21(F=-1)-to-29=-26(F=-6), 4=-31(F)-to-30=-36(F)
7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-53, 2-4=-61, 10-28=-61, 10-18=-61, 18-19=13, 2-27=-20, 18-29=-20, 25-30=-30(F)
   Horz: 1-2=33, 2-4=41, 4-10=41, 10-18=-41, 18-19=33
   Trapezoidal Loads (plf)
   Vert: 4=-62(F=-1)-to-28=-67(F=-6), 27=-21(F=-1)-to-29=-26(F=-6), 4=-31(F)-to-30=-36(F)
8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=2, 2-4=-16, 10-28=-16, 10-18=18, 18-19=10, 2-27=-12, 18-29=-12, 25-30=2(F)
   Horz: 1-2=-14, 2-4=4, 4-10=4, 10-18=30, 18-19=22
   Trapezoidal Loads (plf)
   Vert: 4=-17(F=-1)-to-28=-22(F=-6), 27=-13(F=-1)-to-29=-18(F=-6), 4=1(F)-to-30=-4(F)
9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=10, 2-4=18, 10-28=18, 10-18=-16, 18-19=2, 2-27=-12, 18-29=-12, 25-30=2(F)
   Horz: 1-2=-22, 2-4=-30, 4-10=-30, 10-18=-4, 18-19=14
   Trapezoidal Loads (plf)
   Vert: 4=17(F=-1)-to-28=12(F=-6), 27=-13(F=-1)-to-29=-18(F=-6), 4=1(F)-to-30=-4(F)
10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-31, 2-4=-39, 10-28=-39, 10-18=-5, 18-19=2, 2-27=-20, 18-29=-20, 25-30=-22(F)
   Horz: 1-2=11, 2-4=19, 4-10=19, 10-18=15, 18-19=22
   Trapezoidal Loads (plf)
   Vert: 4=-40(F=-1)-to-28=-45(F=-6), 27=-21(F=-1)-to-29=-26(F=-6), 4=-23(F)-to-30=-28(F)
11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=2, 2-4=-5, 10-28=-5, 10-18=-39, 18-19=-31, 2-27=-20, 18-29=-20, 25-30=-22(F)
   Horz: 1-2=-22, 2-4=-15, 4-10=-15, 10-18=-19, 18-19=-11
   Trapezoidal Loads (plf)
   Vert: 4=-6(F=-1)-to-28=-11(F=-6), 27=-21(F=-1)-to-29=-26(F=-6), 4=-23(F)-to-30=-28(F)
12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=33, 2-4=40, 10-28=40, 10-18=18, 18-19=10, 2-27=-12, 18-29=-12, 25-30=11(F)
   Horz: 1-2=-45, 2-4=-52, 4-10=-52, 10-18=30, 18-19=22
   Trapezoidal Loads (plf)
   Vert: 4=39(F=-1)-to-28=34(F=-6), 27=-13(F=-1)-to-29=-18(F=-6), 4=10(F)-to-30=5(F)
13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=10, 2-4=18, 10-28=18, 10-18=40, 18-19=33, 2-27=-12, 18-29=-12, 25-30=11(F)
   Horz: 1-2=-22, 2-4=-30, 4-10=-30, 10-18=52, 18-19=45
   Trapezoidal Loads (plf)
   Vert: 4=17(F=-1)-to-28=12(F=-6), 27=-13(F=-1)-to-29=-18(F=-6), 4=10(F)-to-30=5(F)

Continued on page 3

LOAD CASE(S) Standard

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=33, 2-4=40, 10-28=40, 10-18=18, 18-19=10, 2-27=-12, 18-29=-12, 25-30=11(F)
Horz: 1-2=-45, 2-4=-52, 4-10=-52, 10-18=30, 18-19=22
Trapezoidal Loads (plf)
Vert: 4=39(F=-1)-to-28=34(F=-6), 27=-13(F=-1)-to-29=-18(F=-6), 4=10(F)-to-30=5(F)

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=10, 2-4=18, 10-28=18, 10-18=40, 18-19=33, 2-27=-12, 18-29=-12, 25-30=11(F)
Horz: 1-2=-22, 2-4=-30, 4-10=-30, 10-18=52, 18-19=45
Trapezoidal Loads (plf)
Vert: 4=17(F=-1)-to-28=12(F=-6), 27=-13(F=-1)-to-29=-18(F=-6), 4=10(F)-to-30=5(F)

16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=25, 2-4=17, 10-28=17, 10-18=-5, 18-19=2, 2-27=-20, 18-29=-20, 25-30=-18(F)
Horz: 1-2=-45, 2-4=-37, 4-10=-37, 10-18=15, 18-19=22
Trapezoidal Loads (plf)
Vert: 4=16(F=-1)-to-28=11(F=-6), 27=-21(F=-1)-to-29=-26(F=-6), 4=-19(F)-to-30=-24(F)

17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=2, 2-4=-5, 10-28=-5, 10-18=17, 18-19=25, 2-27=-20, 18-29=-20, 25-30=-18(F)
Horz: 1-2=-22, 2-4=-15, 4-10=-15, 10-18=37, 18-19=45
Trapezoidal Loads (plf)
Vert: 4=-6(F=-1)-to-28=-11(F=-6), 27=-21(F=-1)-to-29=-26(F=-6), 4=-19(F)-to-30=-24(F)

18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-4=-20, 10-28=-20, 10-19=-20, 2-27=-20, 18-29=-20, 25-30=-15(F)
Trapezoidal Loads (plf)
Vert: 4=-21(F=-1)-to-28=-26(F=-6), 27=-21(F=-1)-to-29=-26(F=-6), 4=-16(F)-to-30=-21(F)

19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-58, 2-4=-64, 10-28=-64, 10-18=-39, 18-19=-33, 2-27=-20, 18-29=-20, 25-30=-32(F)
Horz: 1-2=8, 2-4=14, 4-10=14, 10-18=11, 18-19=17
Trapezoidal Loads (plf)
Vert: 4=-65(F=-1)-to-28=-70(F=-6), 27=-21(F=-1)-to-29=-26(F=-6), 4=-33(F)-to-30=-38(F)

20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-33, 2-4=-39, 10-28=-39, 10-18=-64, 18-19=-58, 2-27=-20, 18-29=-20, 25-30=-32(F)
Horz: 1-2=-17, 2-4=-11, 4-10=-11, 10-18=-14, 18-19=-8
Trapezoidal Loads (plf)
Vert: 4=-40(F=-1)-to-28=-45(F=-6), 27=-21(F=-1)-to-29=-26(F=-6), 4=-33(F)-to-30=-38(F)

21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-17, 2-4=-22, 10-28=-22, 10-18=-39, 18-19=-33, 2-27=-20, 18-29=-20, 25-30=-28(F)
Horz: 1-2=-33, 2-4=-28, 4-10=-28, 10-18=11, 18-19=17
Trapezoidal Loads (plf)
Vert: 4=-23(F=-1)-to-28=-28(F=-6), 27=-21(F=-1)-to-29=-26(F=-6), 4=-29(F)-to-30=-34(F)

22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-33, 2-4=-39, 10-28=-39, 10-18=-22, 18-19=-17, 2-27=-20, 18-29=-20, 25-30=-28(F)
Horz: 1-2=-17, 2-4=-11, 4-10=-11, 10-18=28, 18-19=33
Trapezoidal Loads (plf)
Vert: 4=-40(F=-1)-to-28=-45(F=-6), 27=-21(F=-1)-to-29=-26(F=-6), 4=-29(F)-to-30=-34(F)

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-60, 10-28=-60, 10-19=-20, 2-27=-20, 18-29=-20, 25-30=-30(F)
Trapezoidal Loads (plf)
Vert: 4=-61(F=-1)-to-28=-66(F=-6), 27=-21(F=-1)-to-29=-26(F=-6), 4=-31(F)-to-30=-36(F)

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-20, 10-28=-20, 10-19=-60, 2-27=-20, 18-29=-20, 25-30=-30(F)
Trapezoidal Loads (plf)
Vert: 4=-21(F=-1)-to-28=-26(F=-6), 27=-21(F=-1)-to-29=-26(F=-6), 4=-31(F)-to-30=-36(F)

25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-50, 10-28=-50, 10-19=-20, 2-27=-20, 18-29=-20, 25-30=-26(F)
Trapezoidal Loads (plf)
Vert: 4=-51(F=-1)-to-28=-56(F=-6), 27=-21(F=-1)-to-29=-26(F=-6), 4=-27(F)-to-30=-32(F)

26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-20, 10-28=-20, 10-19=-50, 2-27=-20, 18-29=-20, 25-30=-26(F)
Trapezoidal Loads (plf)
Vert: 4=-21(F=-1)-to-28=-26(F=-6), 27=-21(F=-1)-to-29=-26(F=-6), 4=-27(F)-to-30=-32(F)

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	C02	Common	5	1	I43774311
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:33:34 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-dxT7JVUjCsExjemn0DRk57uWQXvWMo2Nf7jc6ByFfEF

-1-11-0	7-0-0	13-8-8	20-5-0	27-5-0	29-4-0
1-11-0	7-0-0	6-8-8	6-8-8	7-0-0	1-11-0

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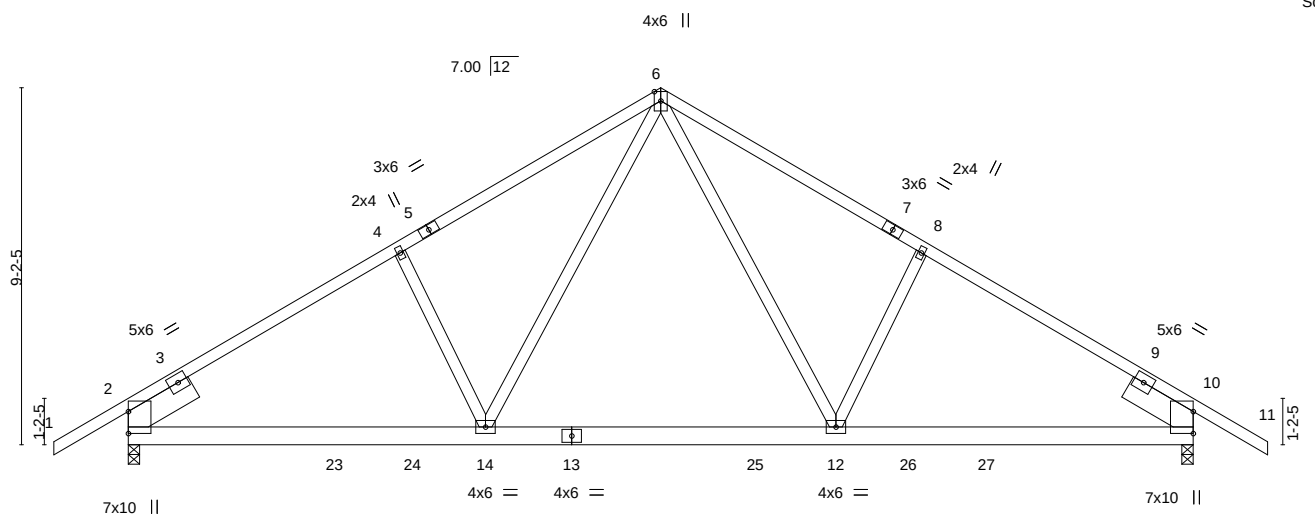


9-2-6	18-2-10	27-5-0
9-2-6	9-0-4	9-2-6

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	0.83	Vert(LL)	-0.16	12-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.28	12-14	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.06	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.09	12-14	>999	240	Weight: 174 lb	FT = 20%

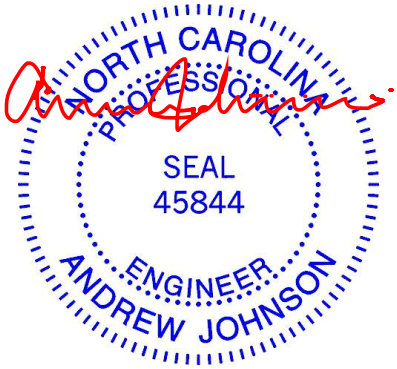
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x8 SP DSS 1-11-12, Right 2x8 SP DSS 1-11-12

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=304(LC 11)
Max Uplift 2=-341(LC 12), 10=-341(LC 13)
Max Grav 2=1276(LC 19), 10=1277(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1548/515, 4-6=-1467/585, 6-8=-1467/585, 8-10=-1550/515
BOT CHORD 2-14=-367/1458, 12-14=-108/994, 10-12=-272/1251
WEBS 6-12=-241/674, 8-12=-417/352, 6-14=-241/671, 4-14=-417/352

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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) except (jt=lb) 2=341, 10=341.



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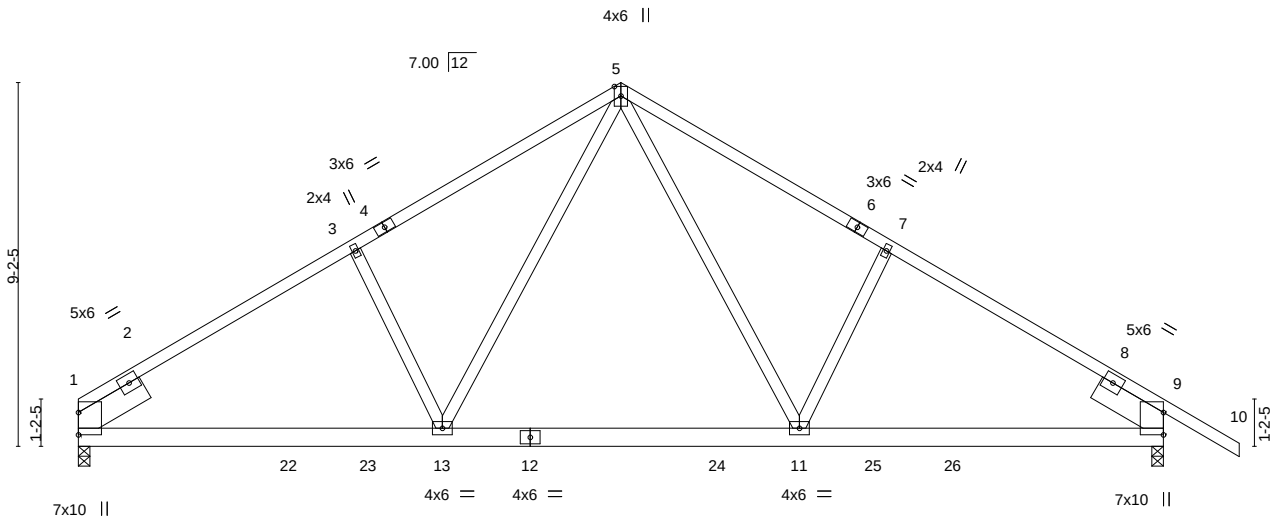
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	C03	Common	4	1	I43774312
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:33:35 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-570WXrVLzAMoKoLzaxyzeLRh9wFi5F2XunT9edyFfEE

7-0-0	13-8-8	20-5-0	27-5-0	29-4-0
7-0-0	6-8-8	6-8-8	7-0-0	1-11-0

Scale = 1:58.2



9-2-6	18-2-10	27-5-0
9-2-6	9-0-4	9-2-6

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	0.84	Vert(LL)	-0.16	11-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.27	11-13	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.06	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.09	11-13	>999	240	Weight: 170 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x8 SP DSS 1-11-12, Right 2x8 SP DSS 1-11-12

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 9=0-3-8
Max Horz 1=-292(LC 10)
Max Uplift 1=-277(LC 12), 9=-341(LC 13)
Max Grav 1=1160(LC 19), 9=1279(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1566/525, 3-5=-1470/595, 5-7=-1472/590, 7-9=-1553/520
BOT CHORD 1-13=-375/1476, 11-13=-111/1000, 9-11=-276/1256
WEBS 5-11=-241/671, 7-11=-417/352, 5-13=-250/690, 3-13=-416/355

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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) except (jt=lb) 1=277, 9=341.

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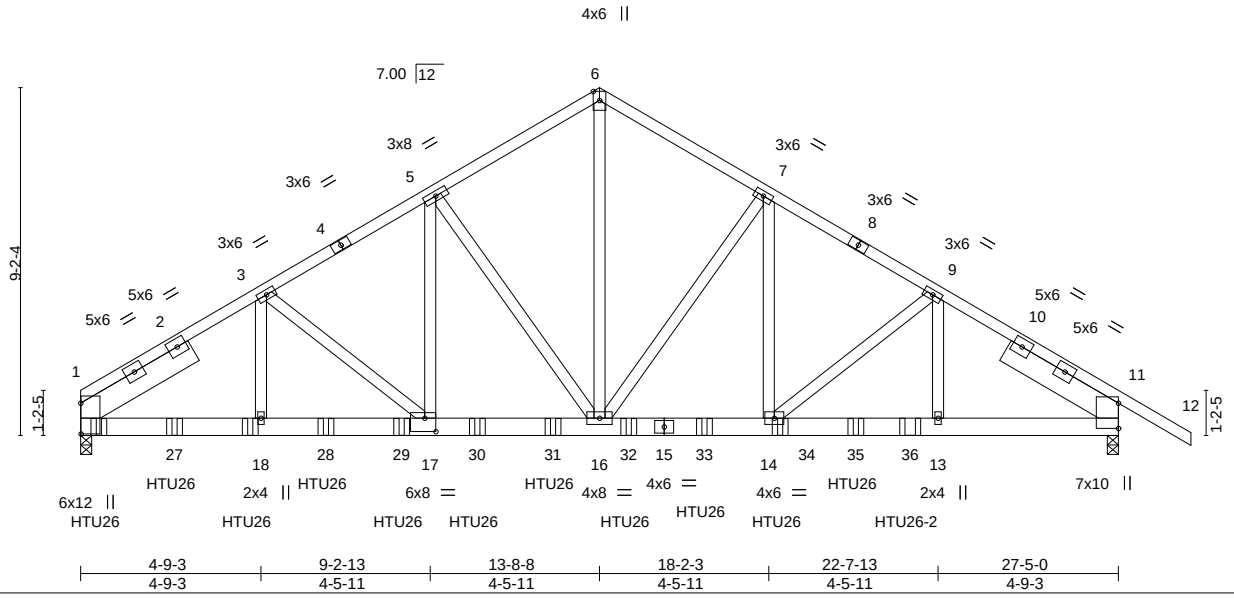
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	C04	COMMON GIRDER	1	4	I43774313
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:33:37 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-1W8GyXWbVncWa6VMiM_RjmW2jkzpZ7MqM5yGiWyFfEC

4-9-3	9-2-13	13-8-8	18-2-3	22-7-13	27-5-0	29-4-0
4-9-3	4-5-11	4-5-11	4-5-11	4-5-11	4-9-3	1-11-0

Scale = 1:60.9



4-9-3	9-2-13	13-8-8	18-2-3	22-7-13	27-5-0
4-9-3	4-5-11	4-5-11	4-5-11	4-5-11	4-9-3

Plate Offsets (X,Y)-- [1:0-9-12,0-0-2], [17:0-3-8,0-4-4]

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	0.77	Vert(LL)	-0.12	17-18	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.24	17-18	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.61	Horz(CT)	0.08	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.13	17-18	>999	240	Weight: 853 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP SS *Except*
8-12: 2x4 SP No.1
BOT CHORD 2x6 SP DSS
WEBS 2x4 SP No.2
SLIDER Left 2x8 SP DSS 3-5-12, Right 2x8 SP DSS 3-5-12

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

REACTIONS. (size) 1=0-3-8, 11=0-3-8
Max Horz 1=-292(LC 6)
Max Uplift 1=-2834(LC 8), 11=-1925(LC 9)
Max Grav 1=11585(LC 1), 11=6809(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-13992/3487, 3-5=-12079/3076, 5-6=-8670/2337, 6-7=-8666/2339, 7-9=-9938/2679, 9-11=-9916/2804
BOT CHORD 1-18=-2969/11635, 17-18=-2969/11635, 16-17=-2614/10479, 14-16=-2156/8609, 13-14=-2180/8197, 11-13=-2180/8197
WEBS 6-16=-2224/8455, 7-16=-2059/835, 7-14=-624/1876, 9-14=-135/604, 9-13=-258/328, 5-16=-5249/1418, 5-17=-1293/5497, 3-17=-1524/455, 3-18=-606/2650

NOTES-
1) 4-ply truss to be connected together with Simpson SDS 1/4 x 6 screws as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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
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) except (jt=lb) 1=2834, 11=1925.
8) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 0-5-12 from the left end to 20-5-12 to connect truss(es) to back face of bottom chord.
9) Use Simpson Strong-Tie HTU26-2 (20-10d Girder, 14-10d Truss, Single Ply Girder) or equivalent at 21-11-0 from the left end to connect truss(es) to back face of bottom chord.
10) Fill all nail holes where hanger is in contact with lumber.

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Continued on page 2

LOAD CASE(S) Standard

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LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-60, 6-12=-60, 19-23=-20
   Concentrated Loads (lb)
   Vert: 18=-1740(B) 21=-1745(B) 27=-1740(B) 28=-1740(B) 29=-1740(B) 30=-1630(B) 31=-1770(B) 32=-723(B) 33=-695(B) 34=-701(B) 35=-726(B) 36=-1136(B)

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	CJ1	DIAGONAL HIP GIRDER	2	1	I43774314
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:33:37 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-1W8GyXWbVncWa6VMiM_RjmWA5k4bZGpqM5yGiWyFfEC

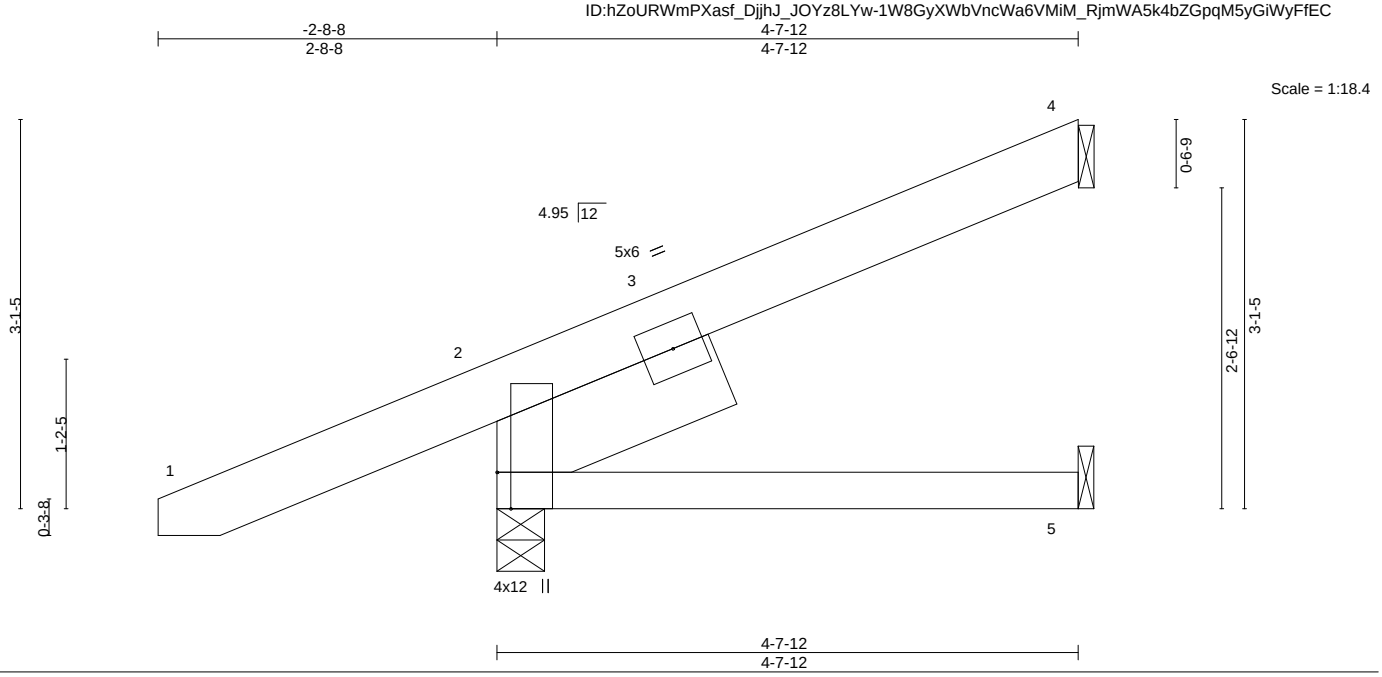

Plate Offsets (X,Y)-- [2:0-3-8,Edge]

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	0.23	Vert(LL)	0.02	5-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.02	5-8	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.01	2	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP							Weight: 32 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
SLIDER Left 2x8 SP DSS 1-11-12

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-7-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-4-9, 5=Mechanical
Max Horz 2=174(LC 16)
Max Uplift 4=-99(LC 16), 2=-184(LC 16)
Max Grav 4=75(LC 1), 2=258(LC 1), 5=62(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-266/192

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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 except (jt=lb) 2=184.
6) 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
Trapezoidal Loads (plf)
Vert: 2=0(F=30, B=30)-to-4=-70(F=-5, B=-5), 6=0(F=10, B=10)-to-5=-23(F=-2, B=-2)

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Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	CJ2	DIAGONAL HIP GIRDER	2	1	I43774315
					Job Reference (optional)

Builders First Source, Sumter SC

8.240 s Apr 4 2020 MiTek Industries, Inc. Wed Nov 25 19:56:53 2020 Page 1
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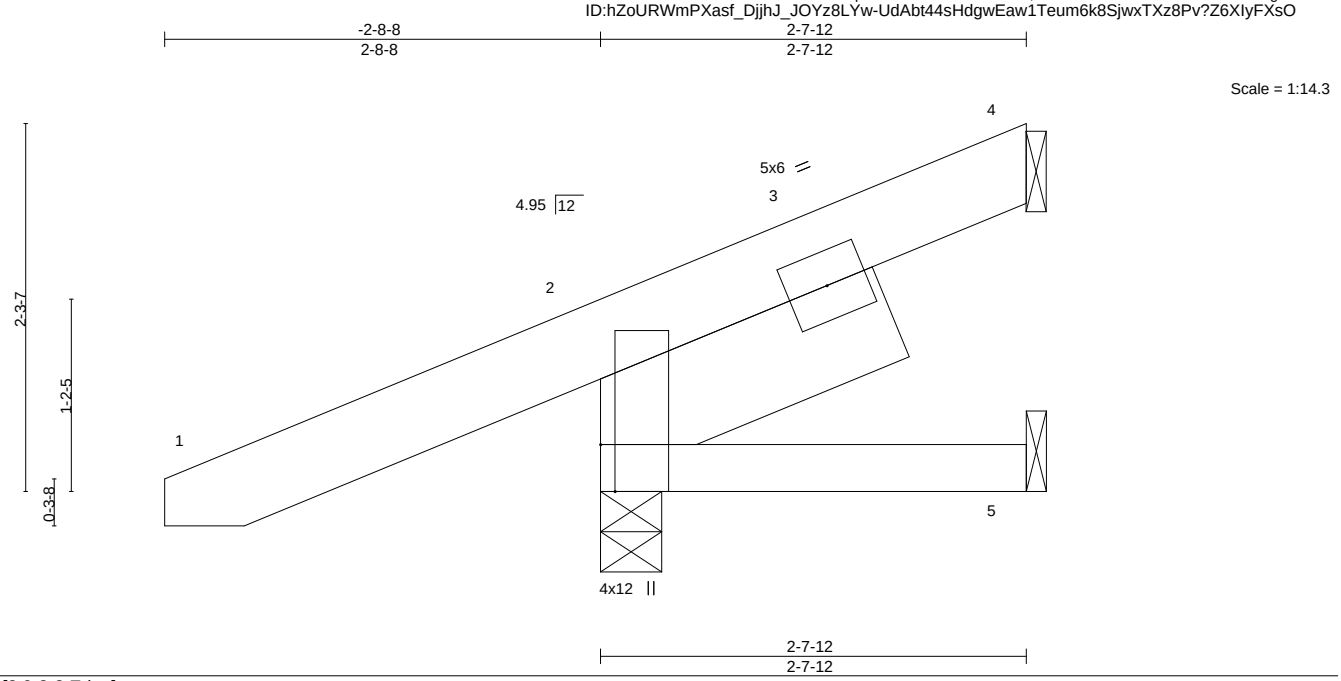

Plate Offsets (X,Y)-- [2:0-3-8,Edge]

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	0.23	Vert(LL)	-0.00	8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	8	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	-0.00	8	>999	240	Weight: 24 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
SLIDER Left 2x8 SP DSS 1-11-12

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-7-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-4-9, 5=Mechanical
Max Horz 2=101(LC 12)
Max Uplift 4=-40(LC 12), 2=-151(LC 8)
Max Grav 4=21(LC 3), 2=321(LC 1), 5=33(LC 3)

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

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 4 and 151 lb uplift at joint 2.

November 25,2020

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Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	CJ3	DIAGONAL HIP GIRDER	2	1	I43774316
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:33:39 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-_uG0MDYs1OsEpQelpm1voBcWuYmC09I6pPRNnOyFfEA

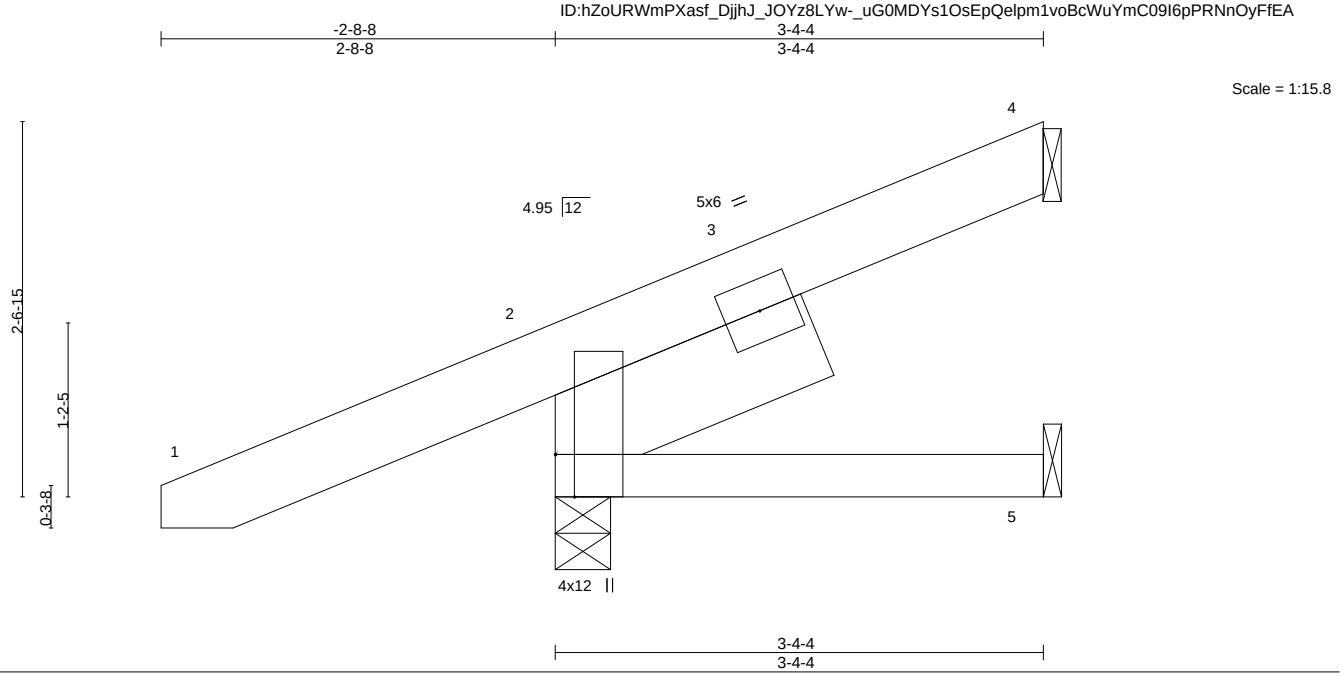


Plate Offsets (X,Y)-- [2:0-3-8,Edge]

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	0.21	Vert(LL)	-0.00	5-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.00	5-8	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	2	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	-0.00	5-8	>999	240	Weight: 27 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
SLIDER Left 2x8 SP DSS 1-11-12

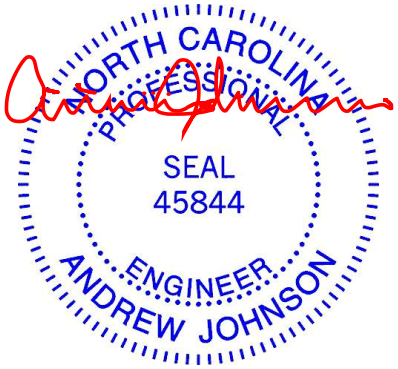
BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-4-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-4-9, 5=Mechanical
Max Horz 2=130(LC 12)
Max Uplift 4=-80(LC 12), 2=-137(LC 12)
Max Grav 4=20(LC 4), 2=240(LC 1), 5=36(LC 3)

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

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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
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 except (jt=lb) 2=137.
6) 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
Trapezoidal Loads (plf)
Vert: 2=0(F=30, B=30)-to-4=-50(F=5, B=5), 6=0(F=10, B=10)-to-5=-17(F=2, B=2)



November 25,2020

ENGINEERING BY TRENCO
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	CJ4	Diagonal Hip Girder	1	1	I43774317
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:33:40 2020 Page 1
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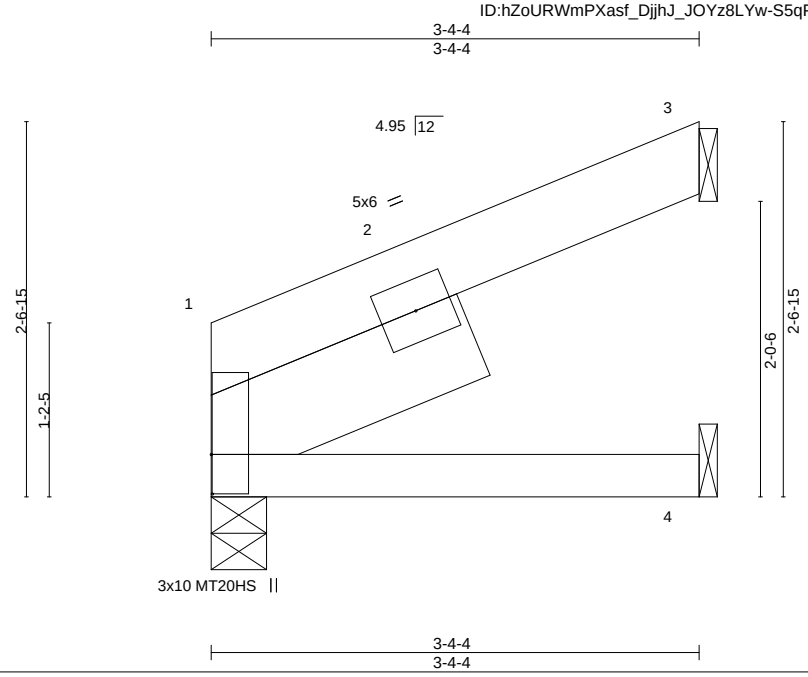

Plate Offsets (X,Y)-- [1:0-3-4,0-0-1]

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	0.09	Vert(LL)	0.01	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.00	4-7	>999	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	1	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 20 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
SLIDER Left 2x8 SP DSS 1-11-12

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-4-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-4-9, 3=Mechanical, 4=Mechanical
Max Horz 1=85(LC 12)
Max Uplift 1=-58(LC 12), 3=-96(LC 12)
Max Grav 1=51(LC 3), 3=56(LC 1), 4=38(LC 3)

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

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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
2) All plates are MT20 plates unless otherwise indicated.
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) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
7) 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
Trapezoidal Loads (plf)
Vert: 1=0(F=30, B=30)-to-3=-50(F=5, B=5), 5=0(F=10, B=10)-to-4=-17(F=2, B=2)

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Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	D01	Common Supported Gable	1	1	I43774318
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:33:41 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-wHOnnuZ6Z06y3jo7xB3NuchspLSuU3yPGjwUrHyFfE8

-1-11-0 / 1-11-0 | 7-2-8 / 7-2-8 | 14-5-0 / 7-2-8 | 16-4-0 / 1-11-0

Scale = 1:33.9

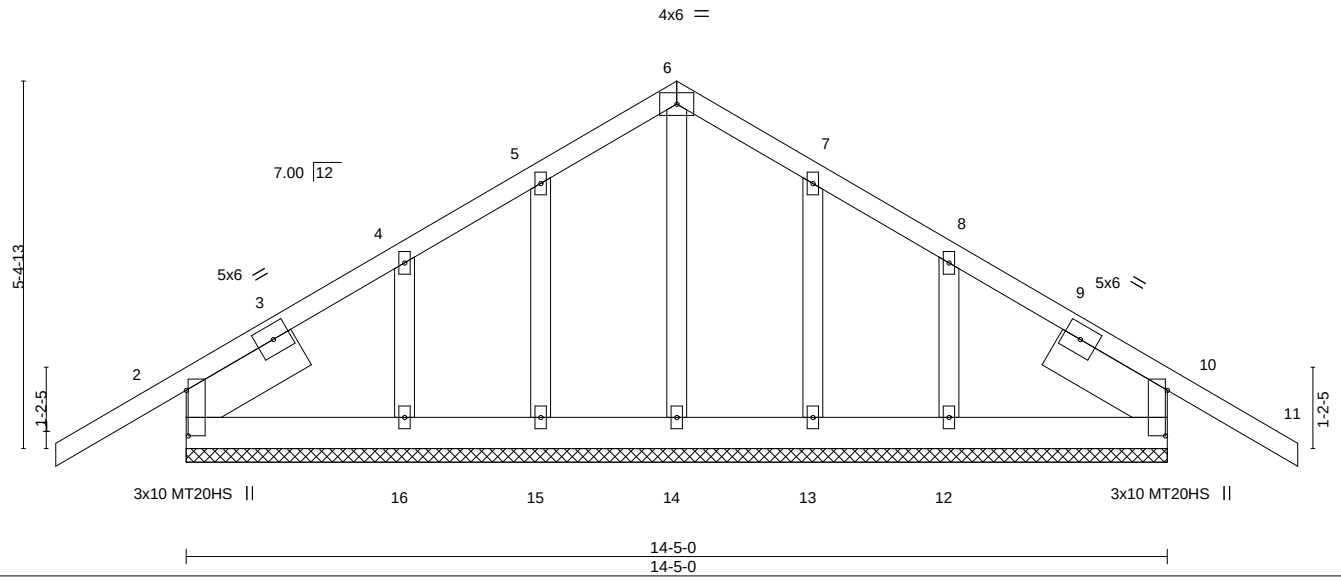

Plate Offsets (X,Y)-- [2:0-8-1,0-0-5], [10:0-8-1,0-0-5]

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	0.25	Vert(LL)	-0.01	11	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.02	11	n/r	120	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 102 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
OTHERS 2x4 SP No.3
SLIDER Left 2x8 SP DSS 1-11-12, Right 2x8 SP DSS 1-11-12

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

REACTIONS. All bearings 14-5-0.
(lb) - Max Horz 2=-178(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 15, 13 except 10=-103(LC 13), 16=-149(LC 12), 12=-141(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 14, 15, 16, 13, 12 except 2=296(LC 1), 10=296(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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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 MT20 plates unless otherwise indicated.
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) 2, 15, 13 except (jt=lb) 10=103, 16=149, 12=141.

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Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	D02	Common	2	1	I43774319
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:33:42 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-OTx9?EakJJFogtNKUvacQpEzTlkbDVJZVNf1OjyFfE7

-1-11-0 | 7-2-8 | 14-5-0 | 16-4-0
1-11-0 | 7-2-8 | 7-2-8 | 1-11-0

Scale = 1:34.7

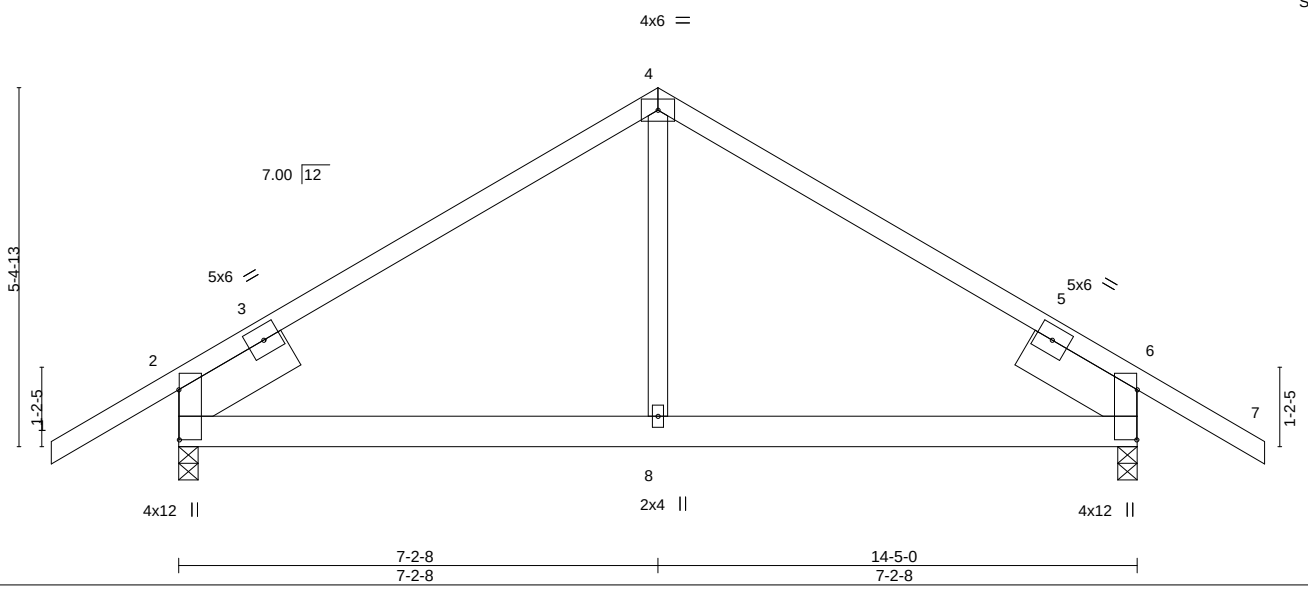

Plate Offsets (X,Y)-- [2:0-9-1,0-0-1], [6:0-9-1,0-0-1]

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	0.51	Vert(LL)	0.04	8-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.05	8-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	-0.02	2	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 85 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x8 SP DSS 1-11-12, Right 2x8 SP DSS 1-11-12

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

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=-178(LC 10)
Max Uplift 2=-208(LC 12), 6=-208(LC 13)
Max Grav 2=692(LC 1), 6=692(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-633/493, 4-6=-633/494
BOT CHORD 2-8=-59/465, 6-8=-59/465
WEBS 4-8=-5/292

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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) except (jt=lb) 2=208, 6=208.

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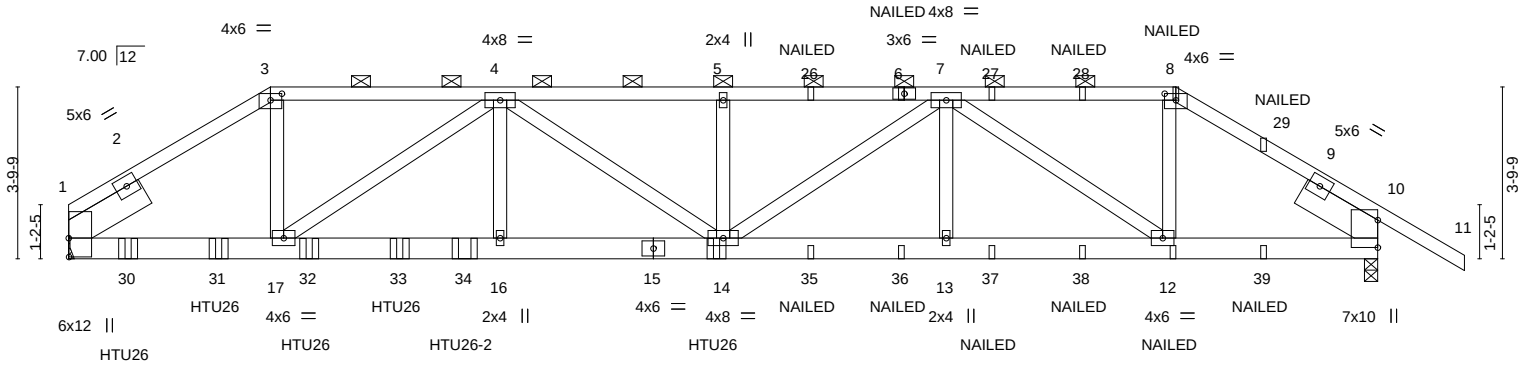
Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	E01	Hip Girder	1	2	I43774320
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:33:44 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-Ks3vQwc_rxVWwBXicKc4VEJD0ZIFhLsszh88ScyFfE5

4-5-8	9-6-6	14-5-8	19-4-10	24-5-8	28-11-0	30-10-0
4-5-8	5-0-14	4-11-2	4-11-2	5-0-14	4-5-8	1-11-0

Scale = 1:50.9



4-5-8	9-6-6	14-5-8	19-4-10	24-5-8	28-11-0
4-5-8	5-0-14	4-11-2	4-11-2	5-0-14	4-5-8

Plate Offsets (X,Y)-- [1:0-5-0,0-0-1], [3:0-3-0,0-1-12], [8:0-3-0,0-1-12]

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	0.89	Vert(LL)	0.21	14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.29	14	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.36	Horz(CT)	0.07	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 369 lb	FT = 20%

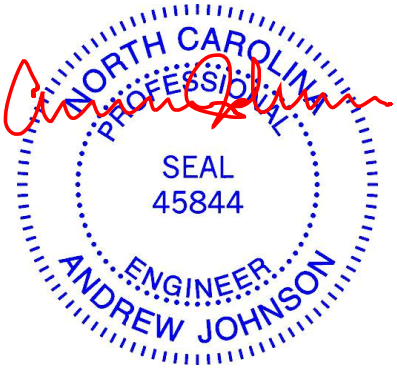
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.1 *Except*
10-15: 2x6 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x8 SP DSS 1-11-12, Right 2x8 SP DSS 1-11-12

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-8-6 oc purlins, except 2-0-0 oc purlins (5-1-6 max.): 3-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=Mechanical, 10=0-3-8
Max Horz 1=-112(LC 6)
Max Uplift 1=-1433(LC 5), 10=-980(LC 4)
Max Grav 1=3418(LC 1), 10=2213(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-4359/1881, 3-4=-3728/1648, 4-5=-5610/2449, 5-7=-5610/2449, 7-8=-2386/1194, 8-10=-2822/1358
BOT CHORD 1-17=-1604/3638, 16-17=-2578/5814, 14-16=-2578/5814, 13-14=-2128/4566, 12-13=-2128/4566, 10-12=-1093/2334
WEBS 3-17=-899/2116, 4-17=-2575/1212, 4-16=-527/1240, 4-14=-261/221, 5-14=-286/219, 7-14=-384/1279, 7-13=-82/442, 7-12=-2664/1233, 8-12=-513/1242

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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
5) Provide adequate drainage to prevent water ponding.
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) 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) except (jt=lb) 1=1433, 10=980.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 7-0-0 oc max. starting at 1-3-12 from the left end to 14-3-12 to connect truss(es) to front face of bottom chord.



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Continued on page 2

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NOTES-

12) Use Simpson Strong-Tie HTU26-2 (20-10d Girder, 14-10d Truss, Single Ply Girder) or equivalent at 8-9-0 from the left end to connect truss(es) to front face of bottom chord.
13) Fill all nail holes where hanger is in contact with lumber.
14) "NAILED" indicates 3-10d Nails (0.148" x 3") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

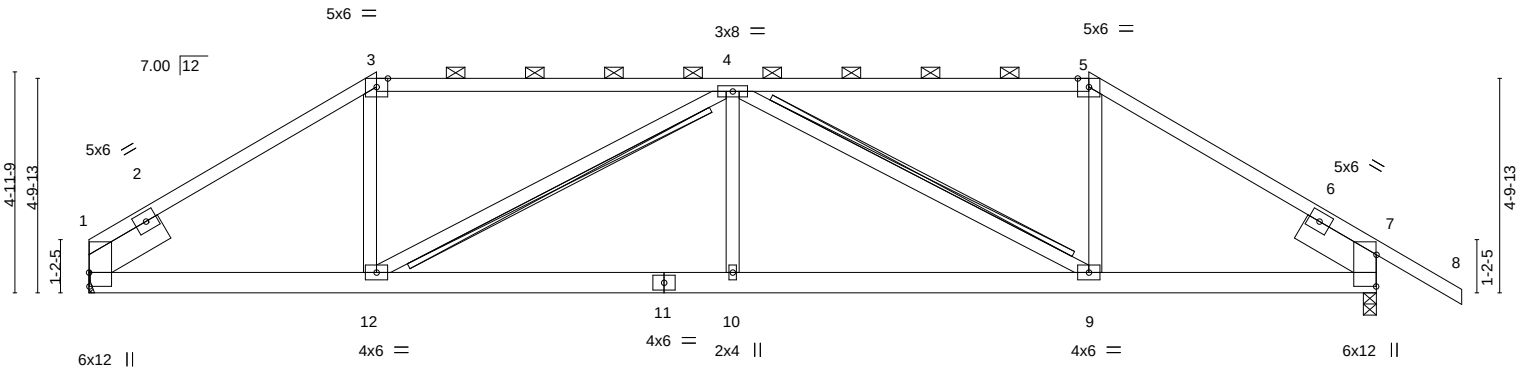
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-60, 3-8=-60, 8-11=-60, 18-22=-20
   Concentrated Loads (lb)
   Vert: 6=-37(F) 8=-37(F) 14=-385(F) 12=-23(F) 26=-37(F) 27=-37(F) 28=-37(F) 30=-460(F) 31=-416(F) 32=-419(F) 33=-425(F) 34=-733(F) 35=-23(F) 36=-23(F) 37=-23(F) 38=-23(F) 39=-62(F)

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	E02	Hip	2	1	I43774321
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:33:45 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-o2dIdGdccEdNXL6uA17J2SsMZyc3QmB?BLuh_2yFfE4

6-5-8 14-5-8 22-5-8 28-11-0 30-10-0
6-5-8 8-0-0 8-0-0 6-5-8 1-11-0

Scale = 1:51.8



6-5-8 14-5-8 22-5-8 28-11-0
6-5-8 8-0-0 8-0-0 6-5-8

Plate Offsets (X,Y)-- [1:0-3-12,0-0-1], [7:0-8-9,0-0-1]

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	0.97	Vert(LL)	-0.10	10-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.23	9-10	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.07	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.13	9-10	>999	240	Weight: 174 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3
SLIDER	Left 2x8 SP DSS 1-11-12, Right 2x8 SP DSS 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except 2-0-0 oc purlins (2-2-0 max.): 3-5.
BOT CHORD	Rigid ceiling directly applied or 9-6-13 oc bracing.
WEBS	T-Brace: 2x4 SPF No.2 - 4-12, 4-9 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS. (size) 1=Mechanical, 7=0-3-8
Max Horz 1=-148(LC 8)
Max Uplift 1=-226(LC 9), 7=-267(LC 13)
Max Grav 1=1153(LC 1), 7=1275(LC 1)

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

TOP CHORD	1-3=-1573/584, 3-4=-1278/562, 4-5=-1259/555, 5-7=-1553/576
BOT CHORD	1-12=-357/1290, 10-12=-592/2001, 9-10=-592/2001, 7-9=-328/1271
WEBS	3-12=-51/473, 4-12=-902/397, 4-10=0/386, 4-9=-913/397, 5-9=-48/470

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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) except (jt=lb) 1=226, 7=267.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

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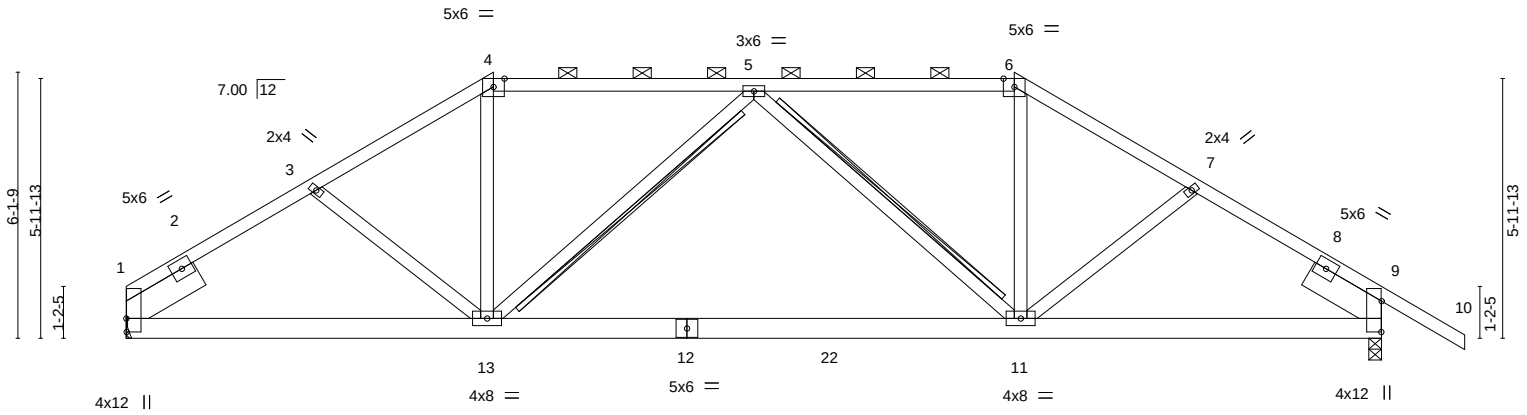
Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	E03	Hip	2	1	I43774322
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:33:47 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-IRl22yet8st5neFHHSAn7txkKmKHulZIffNo3xyFfE2

4-4-8	8-5-8	14-5-8	20-5-8	24-6-8	28-11-0	30-10-0
4-4-8	4-1-0	6-0-0	6-0-0	4-1-0	4-4-8	1-11-0

Scale = 1:53.1



8-5-8	20-5-8	28-11-0
8-5-8	12-0-0	8-5-8

Plate Offsets (X,Y)-- [1:0-3-12,0-0-1], [9:0-8-9,0-0-1]

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	0.89	Vert(LL)	-0.21	11-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.44	11-13	>787	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.07	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.10	11-13	>999	240	Weight: 185 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3
SLIDER	Left 2x8 SP DSS 1-11-12, Right 2x8 SP DSS 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except 2-0-0 oc purlins (4-9-4 max.): 4-6.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	T-Brace: 2x4 SPF No.2 - 5-13, 5-11 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS. (size) 1=Mechanical, 9=0-3-8
Max Horz 1=-187(LC 10)
Max Uplift 1=-231(LC 12), 9=-296(LC 13)
Max Grav 1=1153(LC 1), 9=1275(LC 1)

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

TOP CHORD	1-3=-1595/592, 3-4=-1480/564, 4-5=-1251/538, 5-6=-1240/534, 6-7=-1466/558, 7-9=-1576/584
BOT CHORD	1-13=-368/1289, 11-13=-409/1475, 9-11=-358/1266
WEBS	4-13=-84/448, 5-13=-381/300, 5-11=-391/300, 6-11=-81/444

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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, with BCDL = 10.0psf.
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) except (jt=lb) 1=231, 9=296.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

November 25,2020

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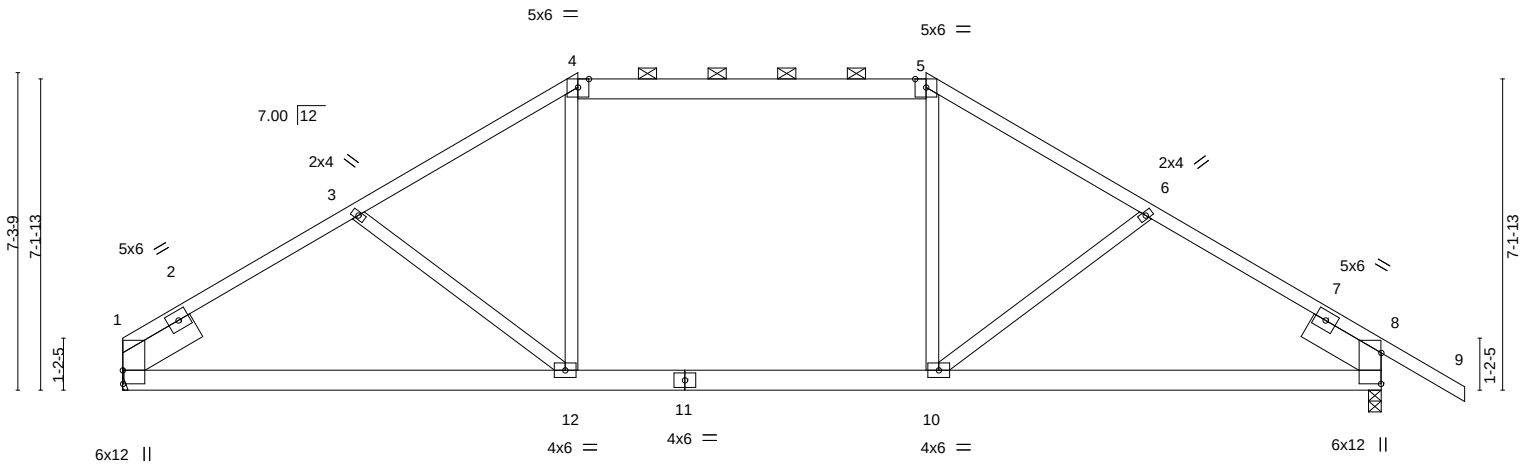
Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	E04	Hip	2	1	I43774323
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:33:48 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-DdJQFIfVv9?yOoqTr9h0g4TuiAhwdBJRtJ6LbNyFfE1

5-5-0	10-5-8	18-5-8	23-6-1	28-11-0	30-10-0
5-5-0	5-0-9	8-0-0	5-0-8	5-4-15	1-11-0

Scale = 1:52.9



10-5-8	18-5-8	28-11-0
10-5-8	8-0-0	10-5-8

Plate Offsets (X,Y)-- [1:0-3-12,0-0-1], [8:0-8-9,0-0-1]

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	0.91	Vert(LL)	-0.25	12-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.31	12-15	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.08	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.30	12-15	>999	240	Weight: 175 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except* 4-5: 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x8 SP DSS 1-11-12, Right 2x8 SP DSS 1-11-12

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except 2-0-0 oc purlins (5-9-6 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=Mechanical, 8=0-3-8
Max Horz 1=-226(LC 10)
Max Uplift 1=-256(LC 12), 8=-321(LC 13)
Max Grav 1=1153(LC 1), 8=1275(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1590/602, 3-4=-1436/554, 4-5=-1206/543, 5-6=-1433/553, 6-8=-1581/598
BOT CHORD 1-12=-363/1361, 10-12=-199/1206, 8-10=-357/1287
WEBS 3-12=-277/294, 4-12=-2/373, 5-10=0/367, 6-10=-277/287

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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, with BCDL = 10.0psf.
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) except (jt=lb) 1=256, 8=321.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

November 25,2020

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	E05	Hip	2	1	I43774324
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:33:49 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-hptoTdg7gT7p0yPgPtCFCI039a1oMeRb6zsv7pyFfE0

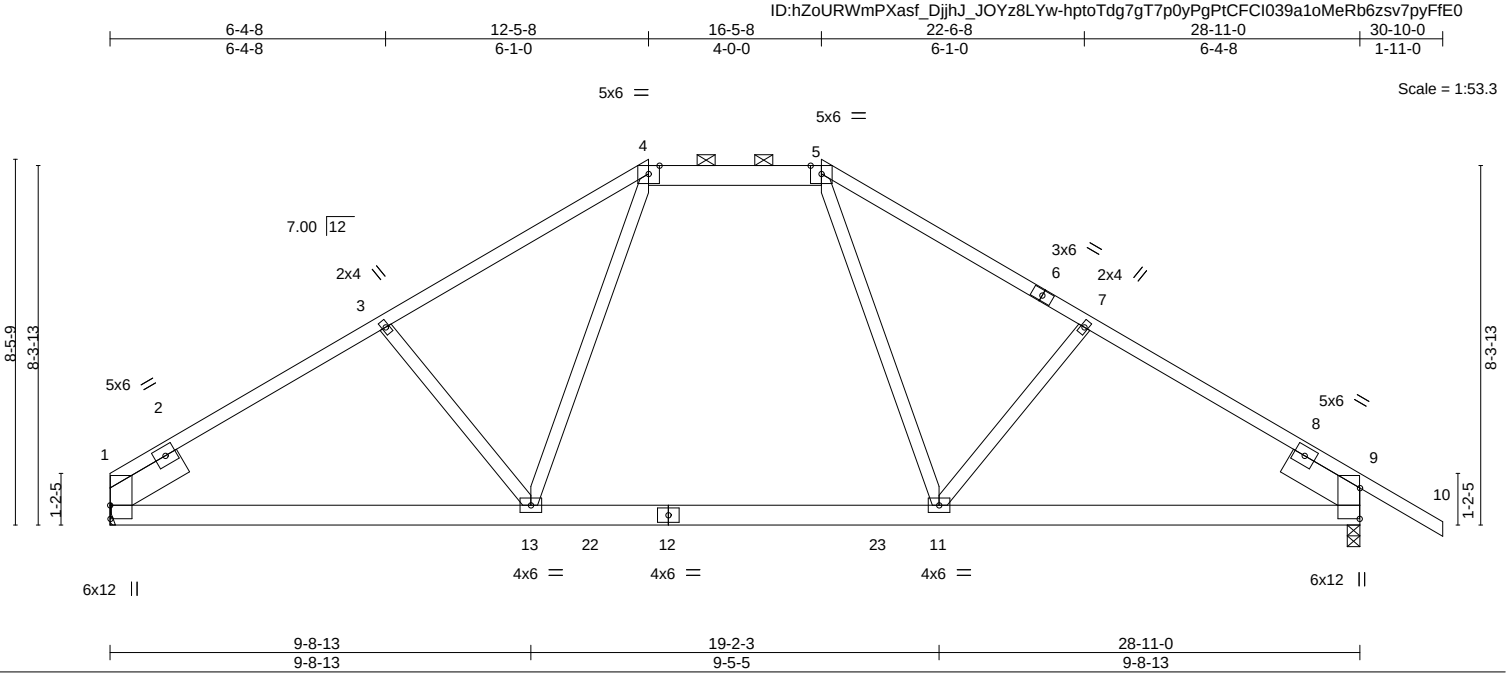

Plate Offsets (X,Y)-- [1:0-3-12,0-0-1], [9:0-8-9,0-0-1]

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	0.93	Vert(LL)	-0.24	13-16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.34	11-13	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.08	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.27	13-16	>999	240	Weight: 176 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except* 4-5: 2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3
SLIDER	Left 2x8 SP DSS 1-11-12, Right 2x8 SP DSS 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 1-11-14 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=Mechanical, 9=0-3-8
Max Horz 1=-265(LC 10)
Max Uplift 1=-276(LC 12), 9=-341(LC 13)
Max Grav 1=1153(LC 1), 9=1275(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1586/580, 3-4=-1418/580, 4-5=-1125/539, 5-7=-1420/576, 7-9=-1574/576
BOT CHORD 1-13=-361/1436, 11-13=-138/1058, 9-11=-331/1280
WEBS 3-13=-354/348, 4-13=-106/503, 5-11=-99/487, 7-11=-352/343

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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, with BCDL = 10.0psf.
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) except (jt=lb) 1=276, 9=341.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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818 Soundside Road
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Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	E06	Common	3	1	I43774325
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:33:50 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-90QBgzglRnFge6_syajUlVZEezMI50gkLdbSgFyFfE?

7-4-8 | 14-5-8 | 21-6-8 | 28-11-0 | 30-10-0
7-4-8 | 7-1-0 | 7-1-0 | 7-4-8 | 1-11-0

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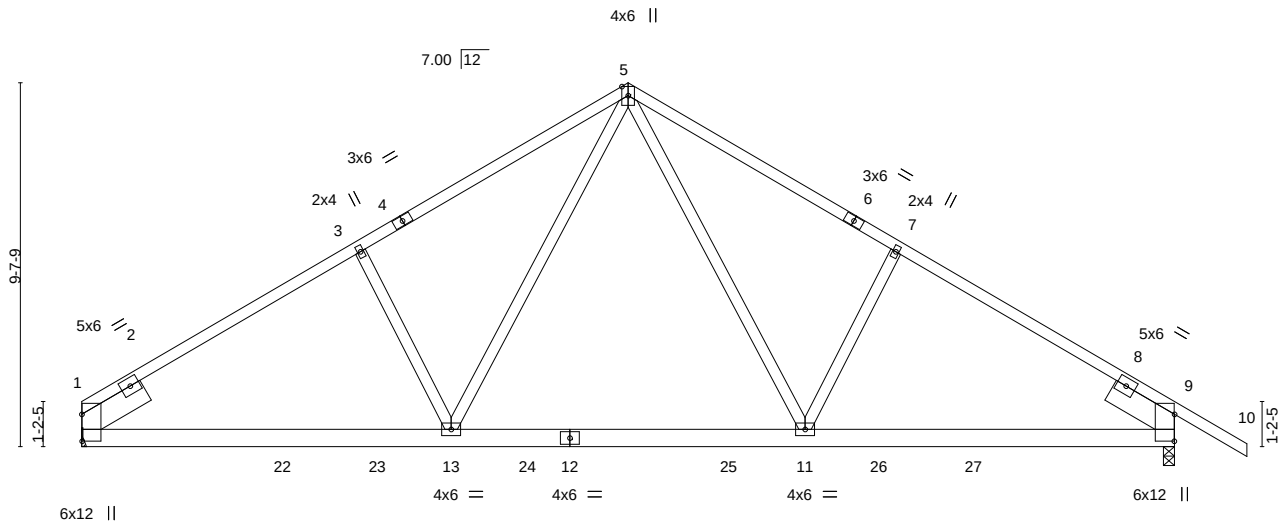

9-9-5 | 19-1-11 | 28-11-0
9-9-5 | 9-4-6 | 9-9-5

Plate Offsets (X,Y)-- [1:0-8-9,0-0-1], [9:0-8-9,0-0-1]

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	0.95	Vert(LL)	-0.18	11-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.31	11-13	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.07	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.10	11-13	>999	240	Weight: 179 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x8 SP DSS 1-11-12, Right 2x8 SP DSS 1-11-12

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=Mechanical, 9=0-3-8
Max Horz 1=-306(LC 10)
Max Uplift 1=-292(LC 12), 9=-357(LC 13)
Max Grav 1=1241(LC 19), 9=1359(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1689/558, 3-5=-1569/627, 5-7=-1556/622, 7-9=-1676/554
BOT CHORD 1-13=-400/1589, 11-13=-118/1075, 9-11=-299/1355
WEBS 5-11=-253/723, 7-11=-444/372, 5-13=-261/743, 3-13=-443/375

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=292, 9=357.

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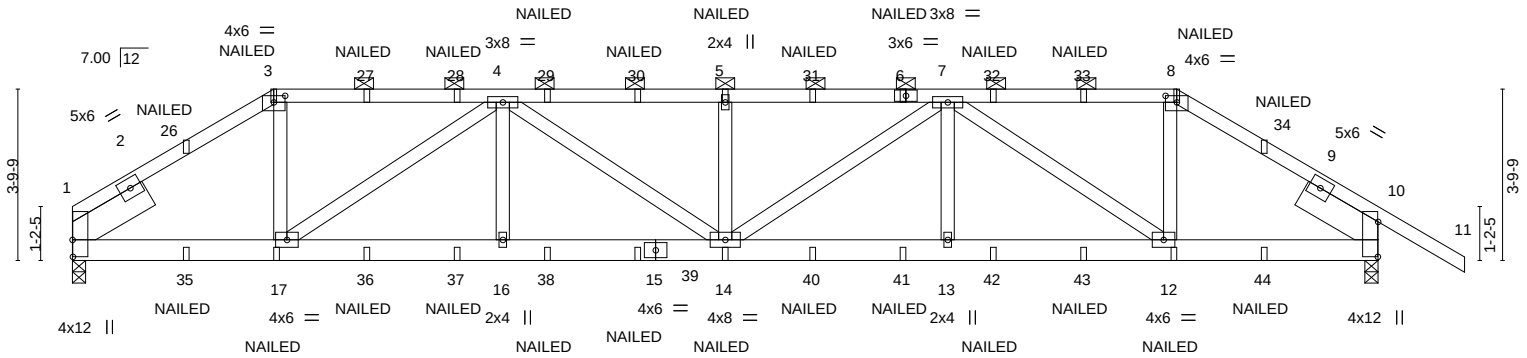
Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	E07	Hip Girder	1	2	I43774326
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:33:54 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-2nghWLjGV?l56jldBQoQvLj0Wblv1vHKGFZgo1yFfDx

4-5-8	9-6-6	14-5-8	19-4-10	24-5-8	28-11-0	30-10-0
4-5-8	5-0-14	4-11-2	4-11-2	5-0-14	4-5-8	1-11-0

Scale = 1:51.0



4-5-8	9-6-6	14-5-8	19-4-10	24-5-8	28-11-0
4-5-8	5-0-14	4-11-2	4-11-2	5-0-14	4-5-8

Plate Offsets (X,Y)-- [1:0-4-8,0-0-1], [3:0-3-0,0-1-12], [8:0-3-0,0-1-12], [10:0-9-5,0-0-1]

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	0.51	Vert(LL)	0.17	14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.19	14	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.24	Horz(CT)	0.05	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 369 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x8 SP DSS 1-11-12, Right 2x8 SP DSS 1-11-12

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 10=0-3-8
Max Horz 1=-112(LC 6)
Max Uplift 1=-874(LC 5), 10=-882(LC 9)
Max Grav 1=1616(LC 36), 10=1873(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-2177/1239, 3-4=-1830/1090, 4-5=-3660/2089, 5-7=-3660/2089, 7-8=-1962/1057, 8-10=-2331/1202
BOT CHORD 1-17=-1066/1903, 16-17=-1901/3380, 14-16=-1901/3380, 13-14=-1846/3488, 12-13=-1846/3488, 10-12=-957/1969
WEBS 3-17=-438/896, 4-17=-1790/1056, 4-16=-57/390, 4-14=-260/501, 5-14=-342/309, 7-14=-289/344, 7-13=0/426, 7-12=-1802/1064, 8-12=-352/906

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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
5) Provide adequate drainage to prevent water ponding.
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 100 lb uplift at joint(s) except (jt=lb) 1=874, 10=882.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) "NAILED" indicates 3-10d Nails (0.148" x 3") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

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Continued on page 2

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818 Soundside Road
Edenton, NC 27932

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-60, 3-8=-60, 8-11=-60, 18-22=-20
   Concentrated Loads (lb)
   Vert: 3=-37(B) 6=-37(B) 8=-92(B) 17=-23(B) 14=-23(B) 5=-37(B) 12=-55(B) 27=-37(B) 28=-37(B) 29=-37(B) 30=-37(B) 31=-37(B) 32=-92(B) 33=-92(B) 35=-62(B) 36=-23(B) 37=-23(B) 38=-23(B) 39=-23(B) 40=-23(B) 41=-23(B) 42=-55(B) 43=-55(B) 44=-62(B)

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	G01	HIP GIRDER	1	1	I43774327
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:33:55 2020 Page 1
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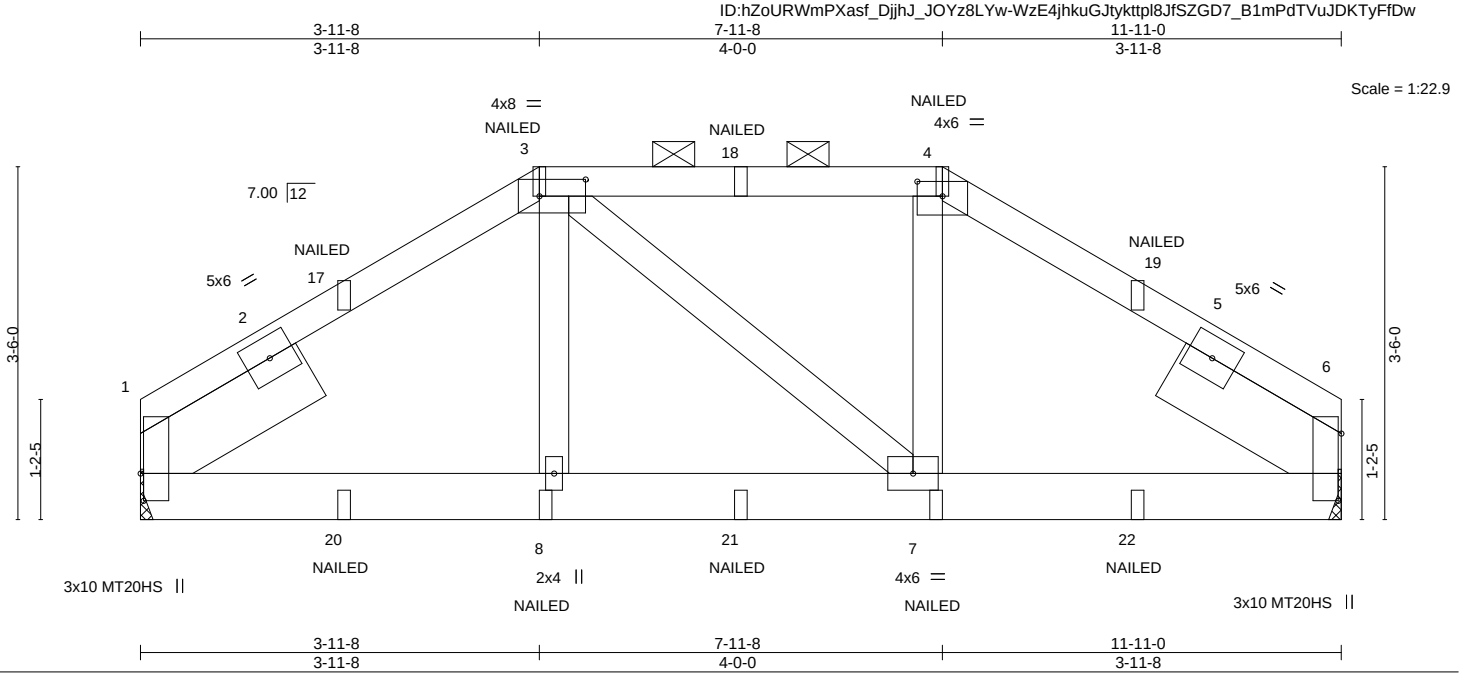


Plate Offsets (X,Y)-- [1:0-3-4,0-0-6], [3:0-5-8,0-2-0], [4:0-3-0,0-1-12], [6:0-8-0,0-0-6]

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	0.32	Vert(LL)	0.02	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.03	7-8	>999	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.04	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 75 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x8 SP DSS 1-11-12, Right 2x8 SP DSS 1-11-12

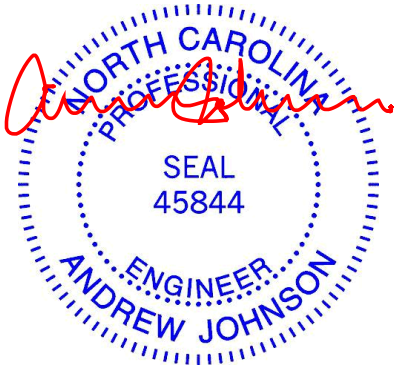
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=Mechanical, 6=Mechanical
Max Horz 1=-78(LC 6)
Max Uplift 1=-298(LC 8), 6=-298(LC 9)
Max Grav 1=566(LC 33), 6=566(LC 34)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-624/372, 3-4=-525/355, 4-6=-624/371
BOT CHORD 1-8=-316/546, 7-8=-317/552, 6-7=-272/512

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
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) except (jt=lb) 1=298, 6=298.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) "NAILED" indicates 3-10d Nails (0.148" x 3") toe-nails per NDS guidelines.
11) 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: 1-3=-60, 3-4=-60, 4-6=-60, 9-13=-20
Concentrated Loads (lb)
Vert: 3=-18(B) 4=-18(B) 8=-18(B) 7=-18(B) 18=-18(B) 20=-30(B) 21=-18(B) 22=-30(B)



November 25,2020

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	G02	Common	2	1	I43774328
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:33:56 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-_AoSx1lW0d?pM1R0Jrqu?mpPMOY1Vr6djY2msvyFfDv

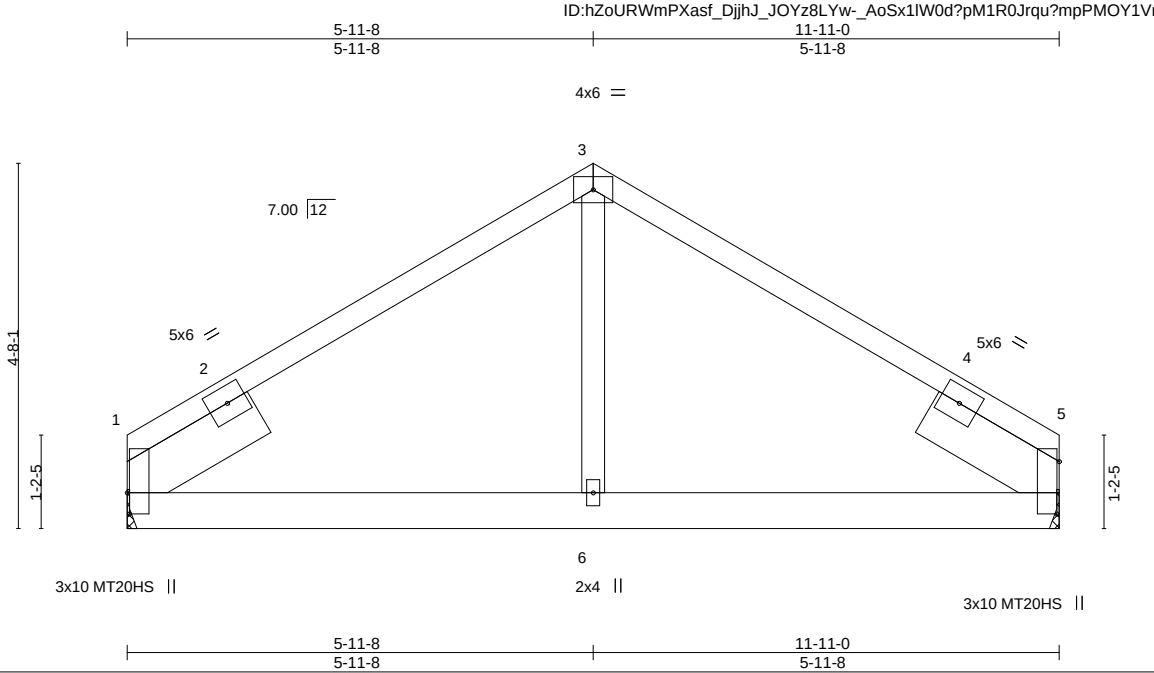


Plate Offsets (X,Y)-- [1:0-3-4,0-0-5], [5:0-8-1,0-0-5]

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	0.29	Vert(LL)	-0.02	6-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.02	6-9	>999	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	-0.02	1	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.02	6-9	>999	240	Weight: 67 lb	FT = 20%

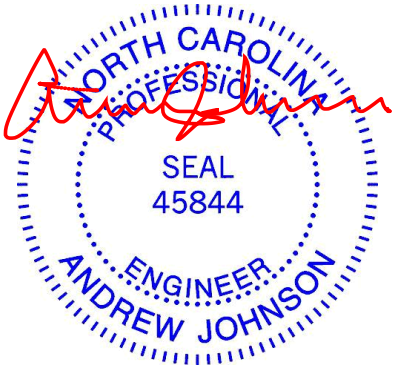
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x8 SP DSS 1-11-12, Right 2x8 SP DSS 1-11-12

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

REACTIONS. (size) 1=Mechanical, 5=Mechanical
Max Horz 1=-116(LC 8)
Max Uplift 1=-117(LC 12), 5=-117(LC 13)
Max Grav 1=477(LC 1), 5=477(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-497/229, 3-5=-497/229
BOT CHORD 1-6=-77/374, 5-6=-77/374

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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 MT20 plates 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.
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) except (jt=lb) 1=117, 5=117.



November 25,2020

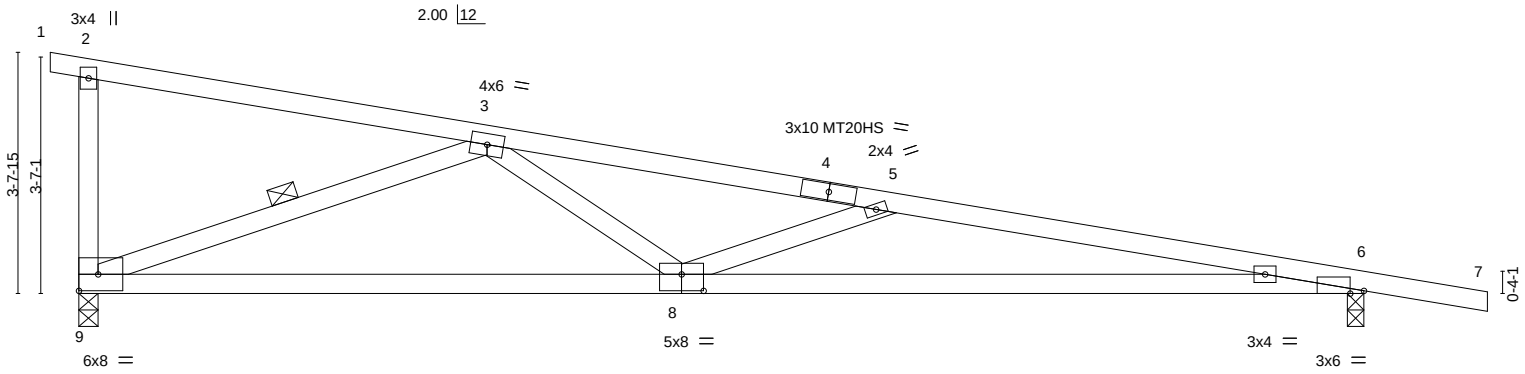
ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	H01	Roof Special	8	1	I43774329
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:33:57 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-SMMq8Nm8nw7gzB0CtYL7X_LSRoh?EASmyCoKPLyFfDu

-0-5-3 6-2-5 12-1-3 19-6-0 21-4-8
0-5-3 6-2-5 5-10-13 7-4-13 1-10-8

Scale = 1:35.0



9-1-12 19-6-0
9-1-12 10-4-4

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

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	0.78	Vert(LL)	0.59	8-12	>395	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.46	8-12	>508	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.05	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 86 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except* 4-7: 2x4 SP No.1
BOT CHORD 2x4 SP No.2 *Except* 6-8: 2x4 SP No.1
WEBS 2x4 SP No.3 *Except* 2-9: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-11-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 3-9

REACTIONS. (size) 9=0-3-8, 6=0-3-0
Max Horz 9=-194(LC 9)
Max Uplift 9=-344(LC 8), 6=-370(LC 9)
Max Grav 9=804(LC 1), 6=892(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-5=-2170/2746, 5-6=-2906/3371
BOT CHORD 8-9=-1541/1465, 6-8=-3277/2853
WEBS 3-9=-1510/1787, 3-8=-1318/893, 5-8=-794/737

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) All plates are MT20 plates unless otherwise indicated.
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) except (jt=lb) 9=344, 6=370.

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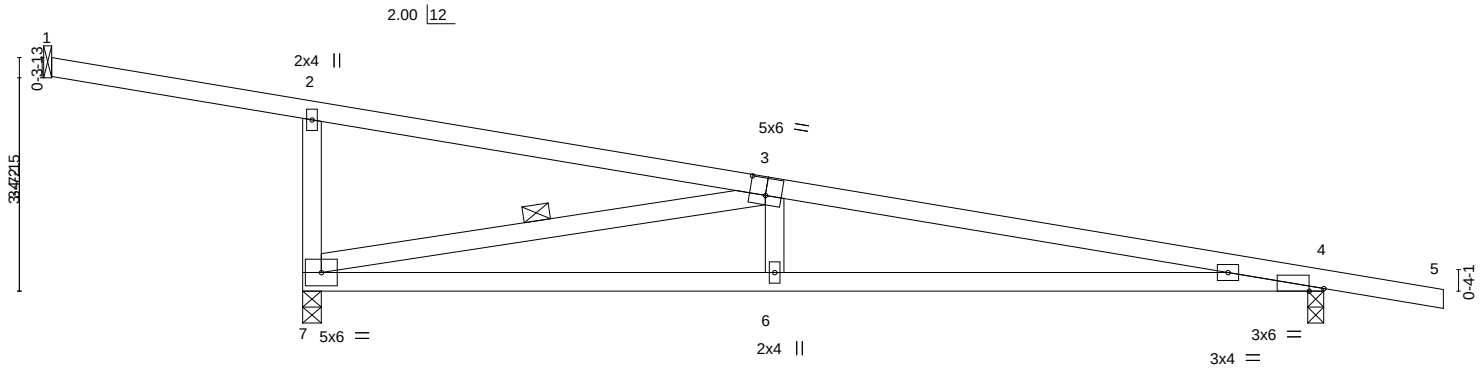
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	H02	Roof Special	9	1	I43774330 Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:33:58 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-wYvCMinmYEGXbKbOQGsM4BudvC4ozcbvBsXtxoyFfDt

-3-11-3	7-4-12	16-0-0	17-10-8
3-11-3	7-4-12	8-7-4	1-10-8

Scale = 1:36.1



-3-9-11	7-4-12	16-0-0
3-9-11	7-4-12	8-7-4

Plate Offsets (X,Y)-- [3:0-3-0,0-3-4], [4:0-2-12,Edge]

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	0.80	Vert(LL)	-0.18	6-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.40	6-10	>478	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.06	1	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.24	6-10	>785	240	Weight: 73 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3 *Except*
2-7: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-8-9 oc bracing.
WEBS 1 Row at midpt 3-7

REACTIONS. (size) 7=0-3-8, 1=Mechanical, 4=0-3-0
Max Horz 7=-194(LC 9)
Max Uplift 7=-355(LC 13), 1=-51(LC 13), 4=-311(LC 9)
Max Grav 7=813(LC 1), 1=69(LC 1), 4=740(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-7=-374/302, 3-4=-1902/684
BOT CHORD 6-7=-610/1838, 4-6=-605/1855
WEBS 3-7=-1854/837, 3-6=0/356

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical right exposed; porch left 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) 1 except (jt=lb) 7=355, 4=311.

November 25,2020

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	JA1	Jack-Open	25	1	I43774331 Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:33:59 2020 Page 1
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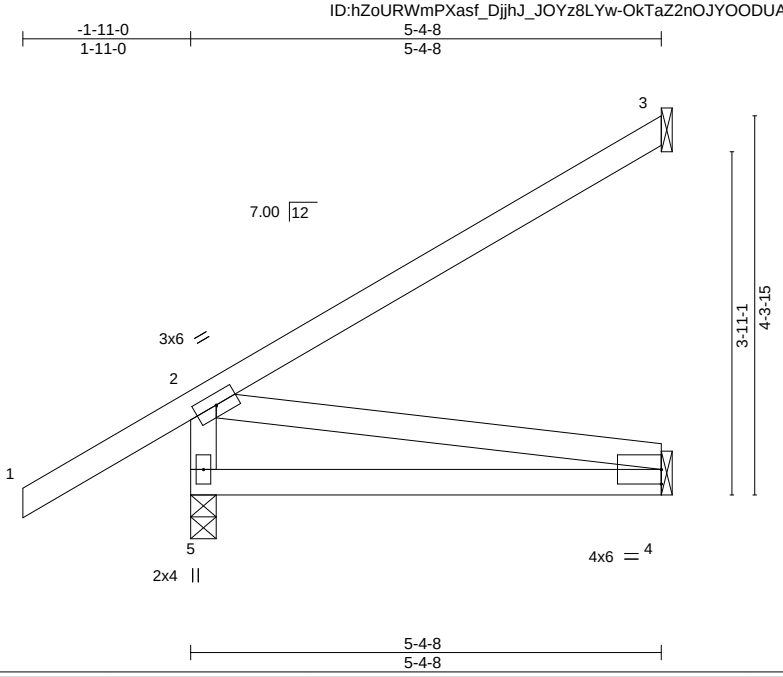


LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	-0.04	4-5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.09	4-5	>700	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	0.00	5	****	240	Weight: 30 lb	FT = 20%

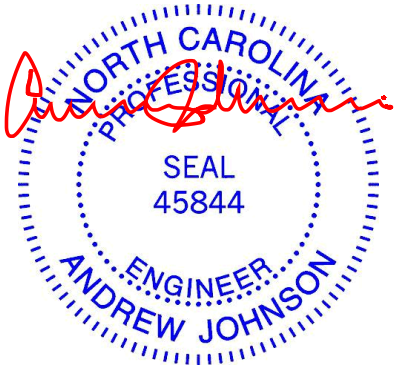
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
2-4: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-4-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=194(LC 12)
Max Uplift 5=-76(LC 12), 3=-130(LC 12), 4=-6(LC 12)
Max Grav 5=356(LC 1), 3=153(LC 19), 4=105(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-303/207
BOT CHORD 4-5=-258/204
WEBS 2-4=-207/263

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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, 4 except (jt=lb) 3=130.



November 25,2020

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TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	JA2	Jack-Closed Girder	2	1	I43774332
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:34:00 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-sx1znOo14rWFqelnYhvq9cz0Q?lPRfVCeA0_?gyFfDr

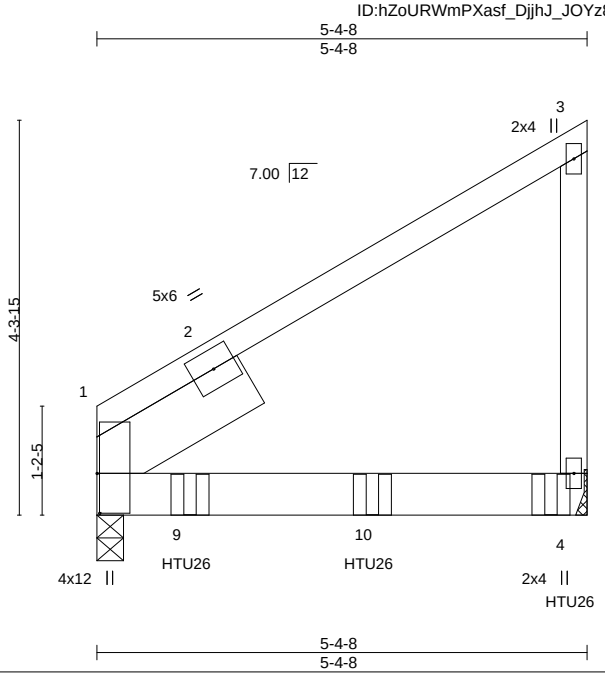


Plate Offsets (X,Y)-- [1:0-5-4,0-0-5]

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	0.61	Vert(LL)	0.10	4-7	>634	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.13	4-7	>499	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.06	1	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP							Weight: 33 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
SLIDER Left 2x8 SP DSS 1-11-12

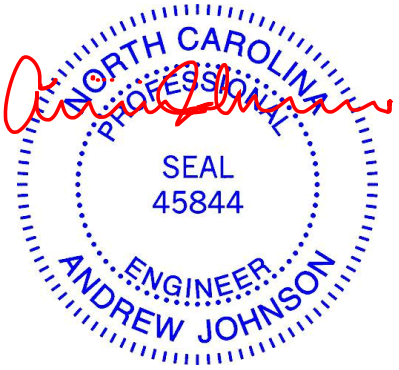
BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-4-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-8-1 oc bracing.

REACTIONS. (size) 1=0-3-8, 4=Mechanical
Max Horz 1=159(LC 8)
Max Uplift 1=-307(LC 8), 4=-404(LC 8)
Max Grav 1=838(LC 1), 4=1043(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-709/444

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left exposed; 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) except (jt=lb) 1=307, 4=404.
6) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-2-8 oc max. starting at 1-0-4 from the left end to 5-2-12 to connect truss(es) to back face of bottom chord.
7) Fill all nail holes where hanger is in contact with lumber.
8) 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: 1-3=-60, 4-5=-20
Concentrated Loads (lb)
Vert: 4=-465(B) 9=-542(B) 10=-457(B)



November 25,2020

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TRENCO
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	JA3	Jack-Open Girder	2	1	I43774333 Job Reference (optional)

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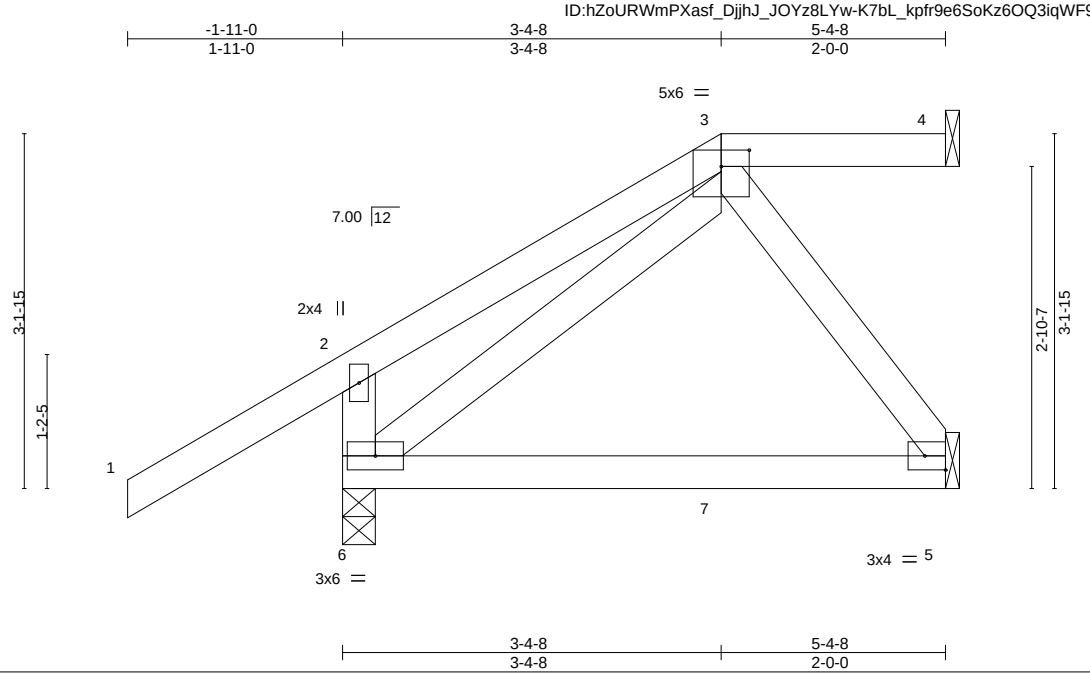

Plate Offsets (X,Y)-- [3:0-3-0,0-1-12], [5:Edge,0-1-8]

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	0.35	Vert(LL)	-0.06	5-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.11	5-6	>578	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.08	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	0.03	5-6	>999	240	Weight: 32 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-6: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-4-8 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=0-3-8, 4=Mechanical, 5=Mechanical
Max Horz 6=136(LC 8)
Max Uplift 6=-174(LC 8), 4=-39(LC 4), 5=-154(LC 8)
Max Grav 6=376(LC 33), 4=58(LC 1), 5=186(LC 33)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-6=-286/220

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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
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) 4 except (jt=lb) 6=174, 5=154.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 193 lb down and 217 lb up at 3-4-8 on top chord, and 60 lb down and 42 lb up at 3-4-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
10) 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, 3-4=-60, 5-6=-20
Concentrated Loads (lb)
Vert: 3=-1(F) 7=-12(F)

NORTH CAROLINA PROFESSIONAL SEAL 45844 ENGINEER ANDREW JOHNSON

November 25,2020

ENGINEERING BY TRENCO A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	JA4	Jack-Open	1	1	I43774334
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:34:01 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-K7bL_kpfr9e6SoKz6OQ3iqWFAPCjA6tMtqmXY7yFfDq

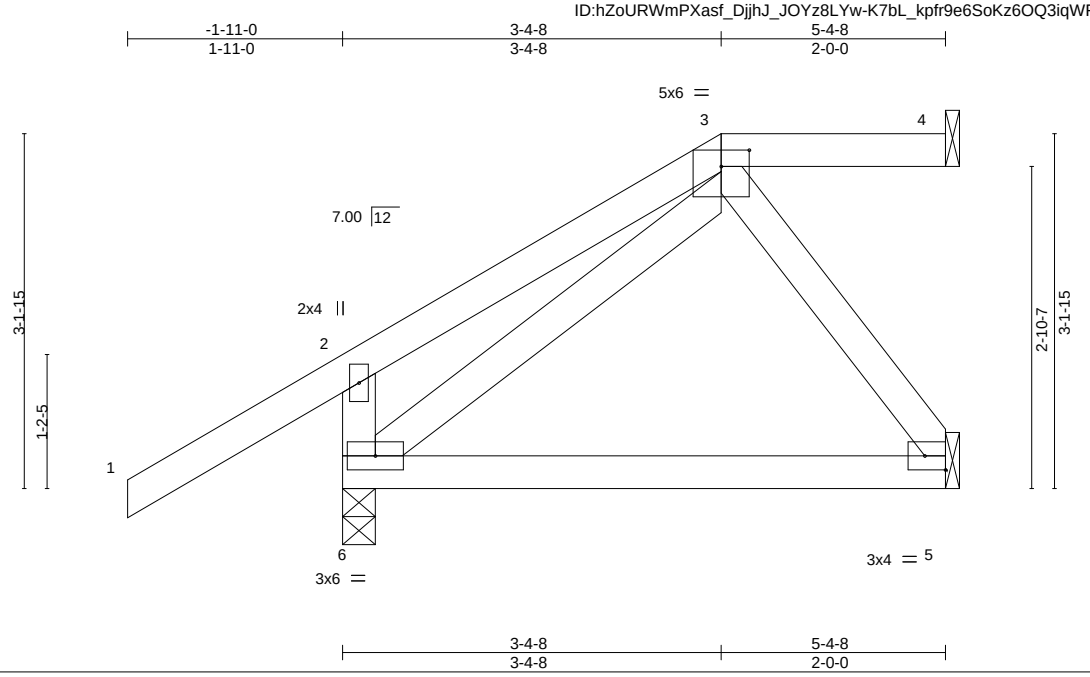

Plate Offsets (X,Y)-- [3:0-3-0,0-1-12], [5:Edge,0-1-8]

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	0.35	Vert(LL)	-0.04	5-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.09	5-6	>700	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	0.00	6	****	240	Weight: 32 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-6: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-4-8 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=0-3-8, 4=Mechanical, 5=Mechanical
Max Horz 6=136(LC 12)
Max Uplift 6=-107(LC 12), 4=-39(LC 8), 5=-45(LC 12)
Max Grav 6=357(LC 1), 4=58(LC 1), 5=128(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-6=-335/367

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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) 4, 5 except (jt=lb) 6=107.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

November 25,2020

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TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	JA5	Jack-Open	1	1	I43774335
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:34:02 2020 Page 1
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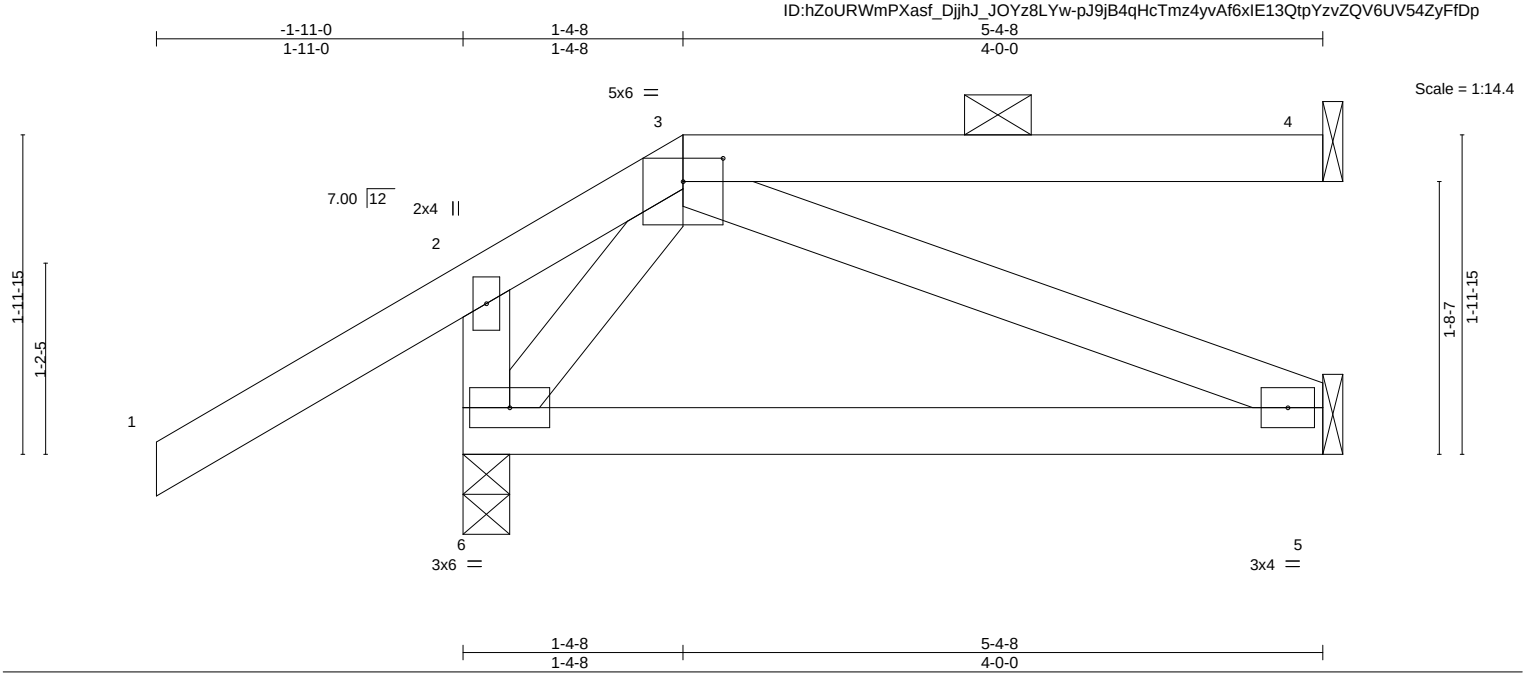

Plate Offsets (X,Y)-- [3:0-3-0,0-1-12]

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	0.35	Vert(LL)	-0.04	5-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.09	5-6	>700	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	0.00	6	****	240	Weight: 30 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-6: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-4-8 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=0-3-8, 4=Mechanical, 5=Mechanical
Max Horz 6=75(LC 9)
Max Uplift 6=-107(LC 12), 4=-79(LC 8)
Max Grav 6=356(LC 1), 4=118(LC 1), 5=109(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-6=-331/410

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-11-0 to 5-3-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) 4 except (jt=lb) 6=107.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

November 25,2020

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TRENCO
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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	JA6	Jack-Open	3	1	I43774336
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:34:03 2020 Page 1
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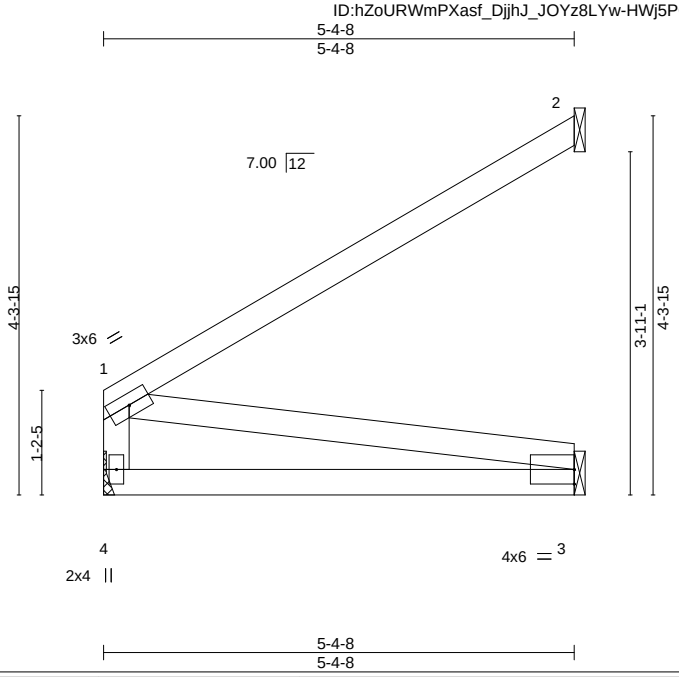

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.04	3-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.09	3-4	>700	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	-0.00	2	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	0.00	4	****	240	Weight: 26 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
1-3: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-4-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=Mechanical, 3=Mechanical
Max Horz 4=140(LC 12)
Max Uplift 2=-150(LC 12)
Max Grav 4=207(LC 1), 2=178(LC 19), 3=105(LC 3)

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

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=150.

November 25,2020

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	JA7	Jack-Open	2	1	I43774337 Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:34:04 2020 Page 1
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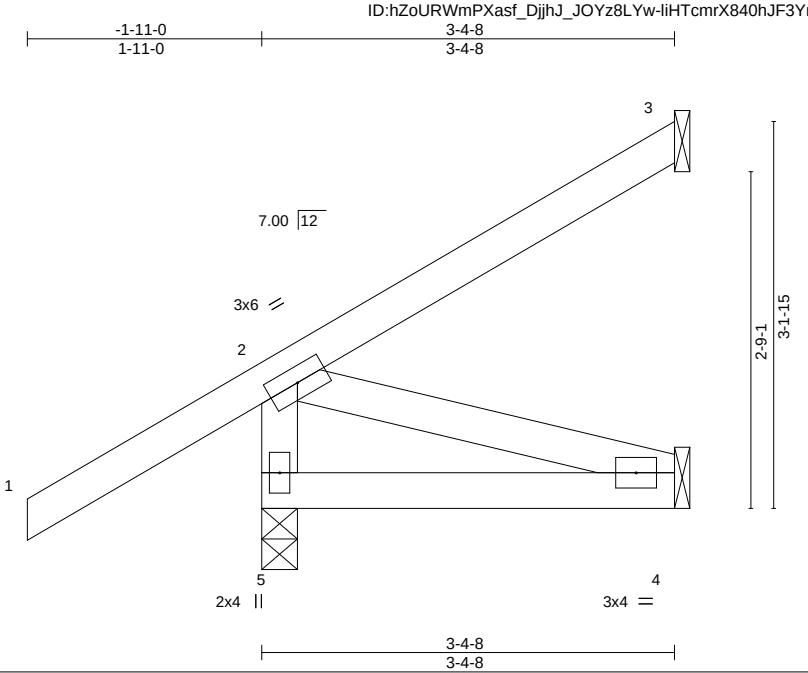


LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.01	4-5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.01	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	0.00	5	****	240	Weight: 20 lb	FT = 20%

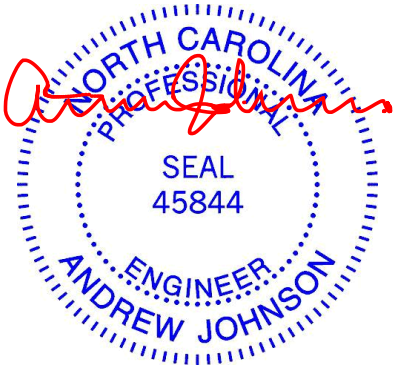
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
2-4: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-4-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=133(LC 12)
Max Uplift 5=-73(LC 12), 3=-60(LC 12), 4=-23(LC 12)
Max Grav 5=291(LC 1), 3=68(LC 19), 4=65(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-259/199

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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, 3, 4.



November 25,2020

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A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	JE1	Jack-Open	13	1	I43774338
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:34:04 2020 Page 1
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1-11-0 4-5-8

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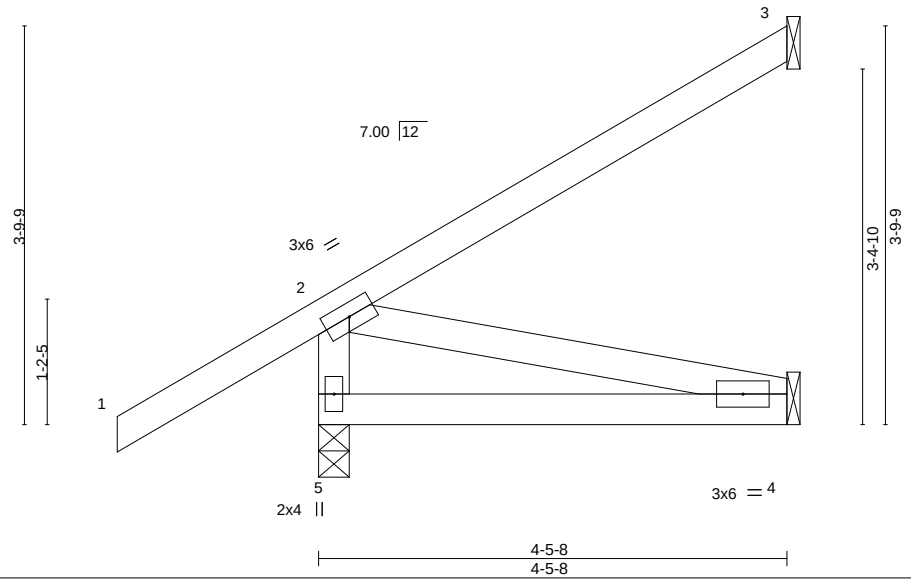

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	-0.02	4-5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.04	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	0.00	5	****	240	Weight: 25 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
2-4: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-5-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=166(LC 12)
Max Uplift 5=-74(LC 12), 3=-99(LC 12), 4=-13(LC 12)
Max Grav 5=324(LC 1), 3=116(LC 19), 4=86(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-281/202

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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, 3, 4.

November 25,2020

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A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	JE2	Jack-Open	3	1	I43774339
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:34:05 2020 Page 1
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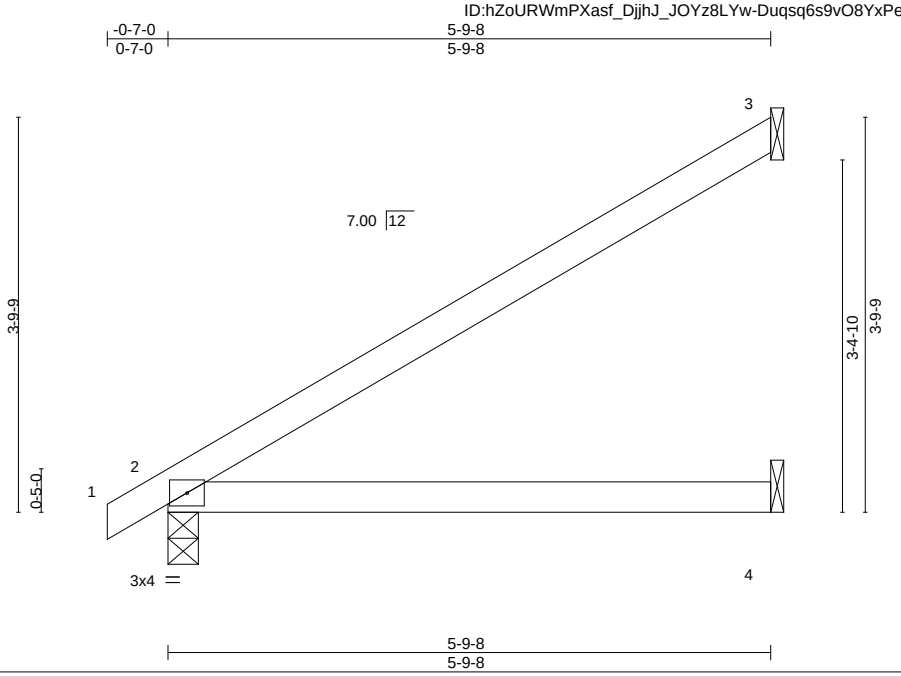

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	-0.05	4-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.11	4-7	>605	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	0.09	4-7	>780	240	Weight: 20 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-9-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=189(LC 12)
Max Uplift 3=-136(LC 12), 2=-47(LC 12)
Max Grav 3=174(LC 19), 2=266(LC 1), 4=108(LC 3)

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

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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 except (jt=lb) 3=136.

November 25,2020

ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	JE3	Jack-Open Girder	3	1	I43774340 Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:34:06 2020 Page 1
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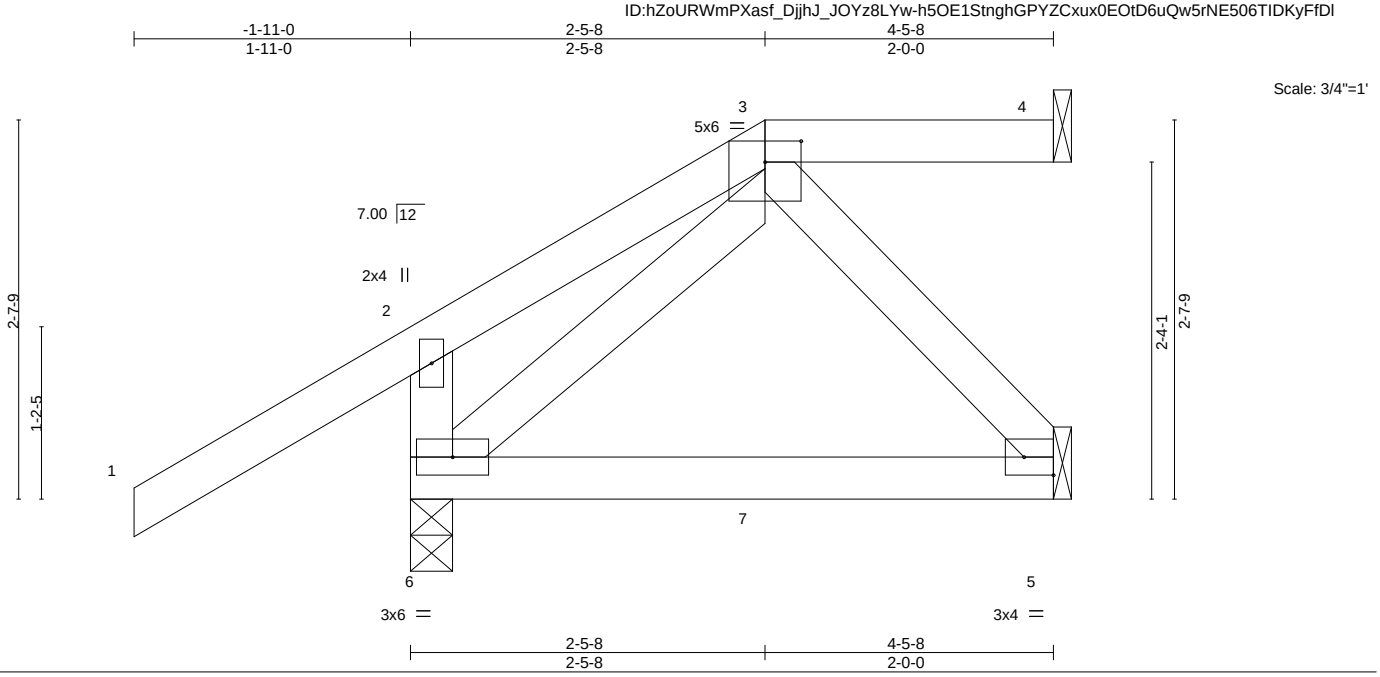

Plate Offsets (X,Y)-- [3:0-3-0,0-1-12], [5:Edge,0-1-8]

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	0.35	Vert(LL)	-0.02	5-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.04	5-6	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.05	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	0.02	5-6	>999	240	Weight: 27 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-6: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-5-8 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=0-3-8, 4=Mechanical, 5=Mechanical
Max Horz 6=108(LC 8)
Max Uplift 6=-155(LC 8), 4=-39(LC 4), 5=-82(LC 8)
Max Grav 6=341(LC 33), 4=58(LC 1), 5=125(LC 33)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-6=-271/206

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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
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) 4, 5 except (jt=lb) 6=155.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 158 lb down and 123 lb up at 2-5-8 on top chord, and 43 lb down and 47 lb up at 2-5-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
10) 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, 3-4=-60, 5-6=-20
Concentrated Loads (lb)
Vert: 7=-1(F)

November 25,2020

ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	JE4	Jack-Closed Girder	1	1	I43774341
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:34:07 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-9HycFnuQR?OFAjn7SfXTx5mHVqEQaqEEFmDslmyFfDk

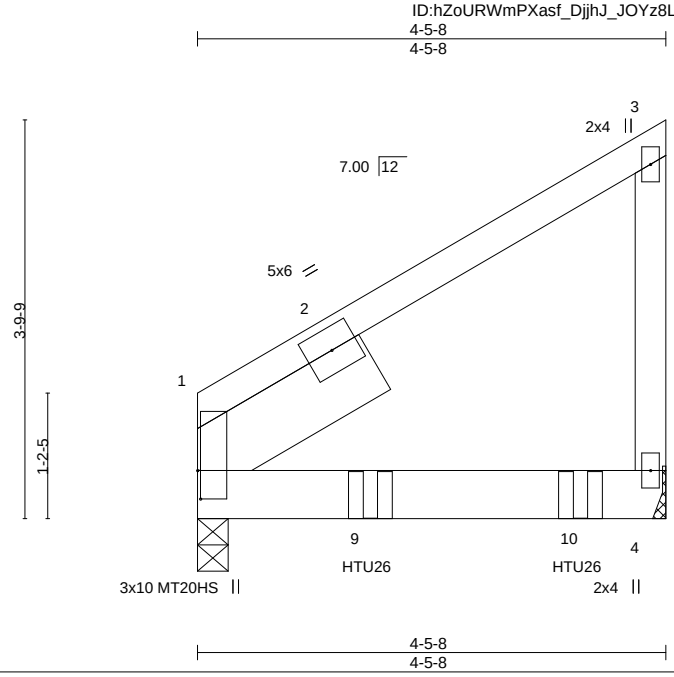

Plate Offsets (X,Y)-- [1:0-3-4,0-0-5]

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	0.30	Vert(LL)	-0.02	4-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.04	4-7	>999	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.02	1	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	0.02	4-7	>999	240	Weight: 29 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x8 SP DSS 1-11-12

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-5-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 4=Mechanical
Max Horz 1=157(LC 7)
Max Uplift 4=-27(LC 8)
Max Grav 1=318(LC 1), 4=405(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-273/117

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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
2) All plates are MT20 plates unless otherwise indicated.
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) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4.
7) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent at 1-7-12 from the left end to connect truss(es) to back face of bottom chord.
8) Use Simpson Strong-Tie HTU26 (20-16d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent at 3-7-12 from the left end to connect truss(es) to back face of bottom chord.
9) Fill all nail holes where hanger is in contact with lumber.
10) 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: 1-3=-60, 4-5=-20
Concentrated Loads (lb)
Vert: 9=-187(B) 10=-191(B)

November 25,2020

ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	JE5	Jack-Open	2	1	I43774342
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:34:08 2020 Page 1
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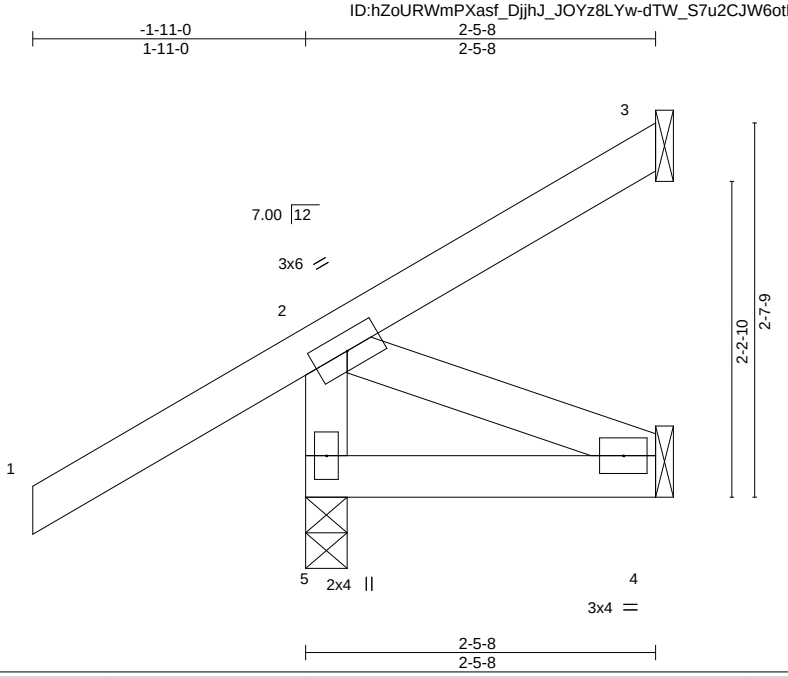


LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.00	4-5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.00	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	0.00	5	****	240	Weight: 16 lb	FT = 20%

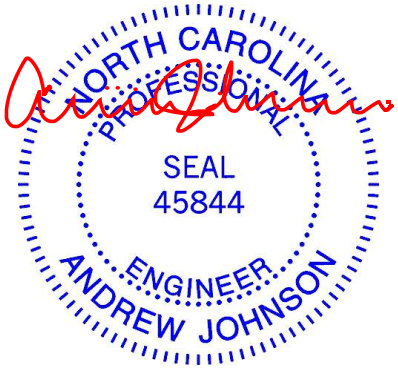
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
2-4: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-5-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=105(LC 12)
Max Uplift 5=-76(LC 12), 3=-20(LC 12), 4=-33(LC 12)
Max Grav 5=271(LC 1), 3=25(LC 8), 4=46(LC 10)

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

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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, 3, 4.



November 25,2020

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	JE6	Jack-Open	1	1	I43774343 Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:34:09 2020 Page 1
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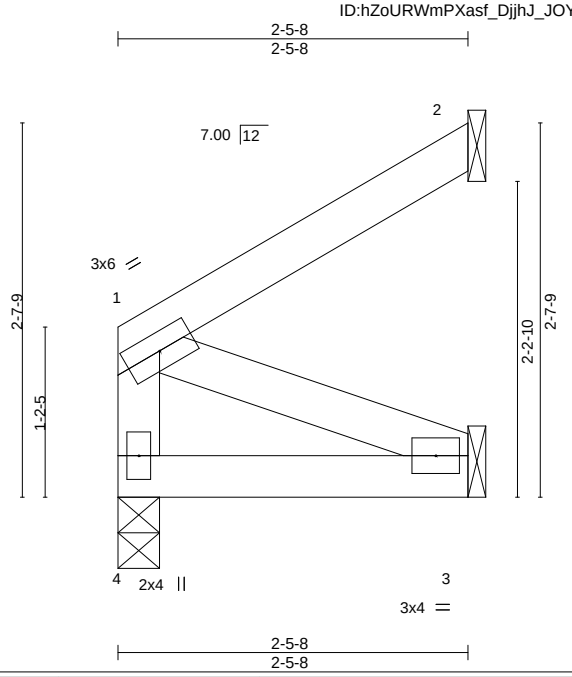


LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	-0.00	3-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.00	3-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	-0.00	2	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	0.00	4	****	240	Weight: 13 lb	FT = 20%

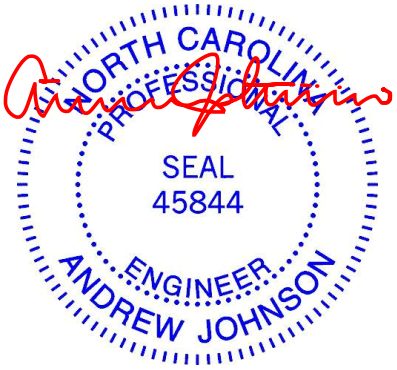
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
1-3: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-5-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-3-8, 2=Mechanical, 3=Mechanical
Max Horz 4=65(LC 9)
Max Uplift 2=-65(LC 12), 3=-11(LC 12)
Max Grav 4=91(LC 1), 2=77(LC 19), 3=46(LC 3)

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

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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, 3.



November 25,2020

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	JG1	Jack-Open	3	1	I43774344
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:34:09 2020 Page 1
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1-11-0 3-11-8

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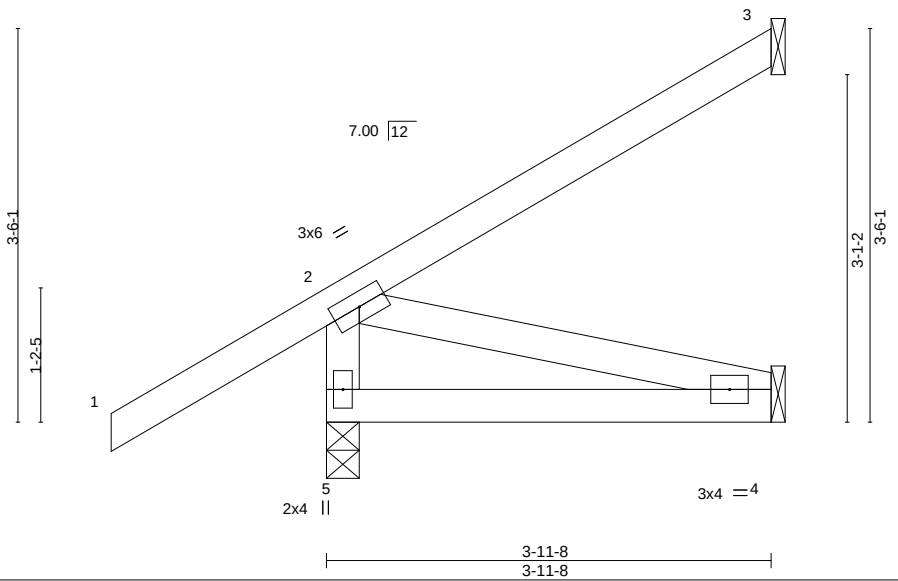

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.01	4-5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.03	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	0.00	5	****	240	Weight: 23 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
2-4: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-11-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=150(LC 12)
Max Uplift 5=-73(LC 12), 3=-81(LC 12), 4=-17(LC 12)
Max Grav 5=308(LC 1), 3=94(LC 19), 4=76(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-270/200

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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, 3, 4.

November 25,2020

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	JG2	Jack-Open Girder	2	1	I43774345 Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:34:10 2020 Page 1
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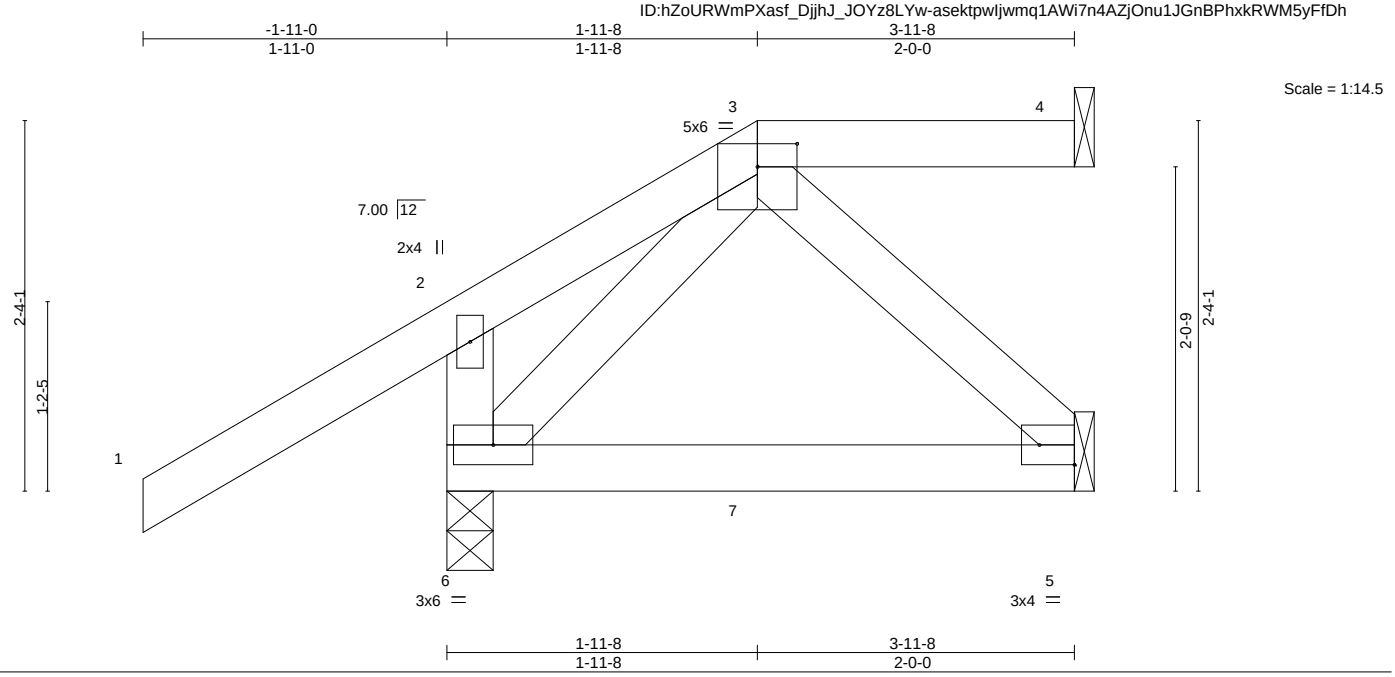

Plate Offsets (X,Y)-- [3:0-3-0,0-1-12], [5:Edge,0-1-8]

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	0.35	Vert(LL)	-0.01	5-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.03	5-6	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.04	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	0.01	5-6	>999	240	Weight: 24 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-6: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-11-8 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 6=0-3-8, 4=Mechanical, 5=Mechanical
Max Horz 6=93(LC 8)
Max Uplift 6=-140(LC 8), 4=-39(LC 4), 5=-51(LC 5)
Max Grav 6=294(LC 1), 4=58(LC 1), 5=75(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-6=-269/203

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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
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) 4, 5 except (jt=lb) 6=140.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 94 lb down and 100 lb up at 1-11-8 on top chord, and 31 lb down and 51 lb up at 1-11-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
10) 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, 3-4=-60, 5-6=-20
Concentrated Loads (lb)
Vert: 3=26(B) 7=2(B)

NORTH CAROLINA PROFESSIONAL SEAL 45844 ENGINEER ANDREW JOHNSON

November 25,2020

ENGINEERING BY TRENCO A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	JG3	Jack-Open	2	1	I43774346
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:34:11 2020 Page 1
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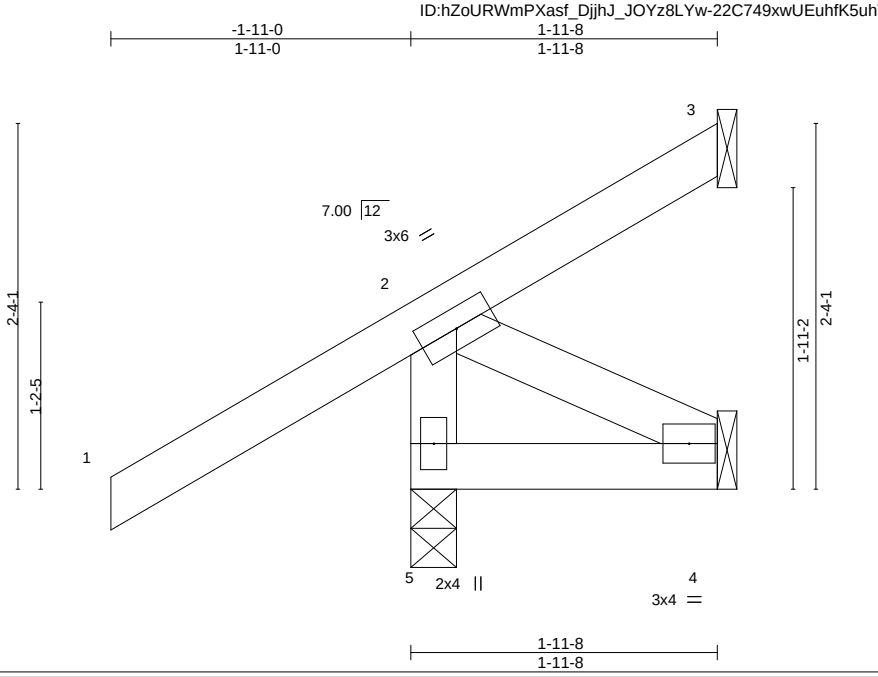


LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.00	5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	0.00	5	****	240	Weight: 14 lb	FT = 20%

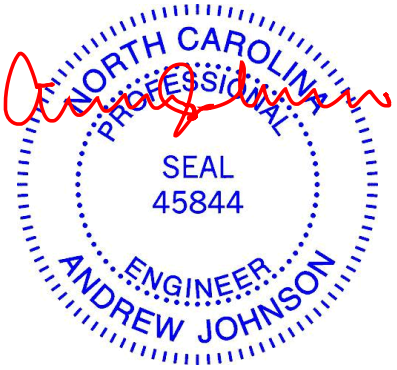
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
2-4: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-11-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=84(LC 12)
Max Uplift 5=-82(LC 12), 3=-17(LC 1), 4=-40(LC 12)
Max Grav 5=267(LC 1), 3=23(LC 8), 4=39(LC 10)

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

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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, 3, 4.



November 25,2020

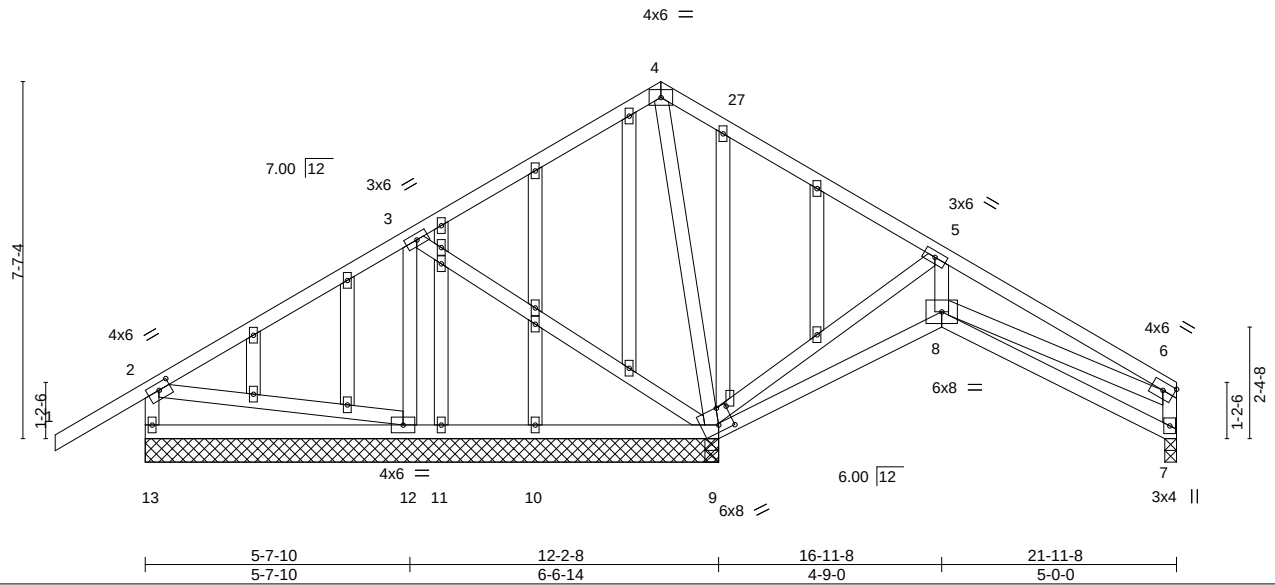
ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	K01	Roof Special Structural Gable	1	1	I43774347 Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:34:12 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-WFmVIVxYFX0YHUg5FC6ee8T3grxSFxwzP2wdR_yFfDf

-1-11-0	5-7-10	10-11-12	16-11-8	21-11-8
1-11-0	5-7-10	5-4-2	5-11-12	5-0-0

Scale = 1:49.1



5-7-10	12-2-8	16-11-8	21-11-8
5-7-10	6-6-14	4-9-0	5-0-0

Plate Offsets (X,Y)-- [2:0-3-0,0-1-12], [9:0-0-8,0-2-8], [9:0-3-12,0-1-12]

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	0.59	Vert(LL)	0.08	8-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.05	7-8	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.68	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 174 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* 2-13,6-7: 2x4 SP No.2
OTHERS 2x4 SP No.3

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

REACTIONS. All bearings 12-2-8 except (jt=length) 7=0-3-0.
(lb) - Max Horz 13=285(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 7 except 13=-126(LC 12), 9=-254(LC 13), 12=-128(LC 12), 11=-174(LC 3)
Max Grav All reactions 250 lb or less at joint(s) 7, 10 except 13=326(LC 23), 9=1131(LC 1), 9=1131(LC 1), 12=409(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-178/327, 4-5=-271/464, 2-13=-278/181
BOT CHORD 12-13=-264/291
WEBS 3-9=-270/281, 4-9=-643/393, 5-9=-560/632, 5-8=-367/275

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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.
8) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 13=126, 9=254, 12=128, 11=174.
10) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) 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

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ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

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, 4-27=-60, 5-6=-62(F=-2), 9-13=-20, 7-8=-22(F=-2)
   Trapezoidal Loads (plf)
   Vert: 27=-66(F=-6)-to-5=-62(F=-2), 9=-26(F=-6)-to-8=-22(F=-2)
2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-50, 2-4=-50, 4-27=-50, 5-6=-52(F=-2), 9-13=-20, 7-8=-22(F=-2)
   Trapezoidal Loads (plf)
   Vert: 27=-56(F=-6)-to-5=-52(F=-2), 9=-26(F=-6)-to-8=-22(F=-2)
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-2=-20, 2-4=-20, 4-27=-20, 5-6=-22(F=-2), 9-13=-40, 7-8=-42(F=-2)
   Trapezoidal Loads (plf)
   Vert: 27=-26(F=-6)-to-5=-22(F=-2), 9=-46(F=-6)-to-8=-42(F=-2)
4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=63, 2-4=37, 4-27=37, 5-6=35(F=-2), 9-13=-12, 7-8=78(F=-2)
   Horz: 1-2=-75, 2-4=-49, 4-6=49, 8-9=-92, 7-8=92, 2-13=25, 6-7=45
   Trapezoidal Loads (plf)
   Vert: 27=31(F=-6)-to-5=35(F=-2), 9=74(F=-6)-to-8=78(F=-2)
5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=30, 2-4=37, 4-27=37, 5-6=35(F=-2), 9-13=-12, 7-8=78(F=-2)
   Horz: 1-2=-42, 2-4=-49, 4-6=49, 8-9=-92, 7-8=92, 2-13=-45, 6-7=-25
   Trapezoidal Loads (plf)
   Vert: 27=31(F=-6)-to-5=35(F=-2), 9=74(F=-6)-to-8=78(F=-2)
6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=13, 2-4=-61, 4-27=-61, 5-6=-63(F=-2), 9-13=-20, 7-8=-9(F=-2)
   Horz: 1-2=-33, 2-4=41, 4-6=-41, 8-9=-13, 7-8=13, 2-13=-29, 6-7=-40
   Trapezoidal Loads (plf)
   Vert: 27=-67(F=-6)-to-5=-63(F=-2), 9=-13(F=-6)-to-8=-9(F=-2)
7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-53, 2-4=-61, 4-27=-61, 5-6=-63(F=-2), 9-13=-20, 7-8=-9(F=-2)
   Horz: 1-2=33, 2-4=41, 4-6=-41, 8-9=-13, 7-8=13, 2-13=40, 6-7=29
   Trapezoidal Loads (plf)
   Vert: 27=-67(F=-6)-to-5=-63(F=-2), 9=-13(F=-6)-to-8=-9(F=-2)
8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=2, 2-4=-16, 4-27=18, 5-6=16(F=-2), 9-13=-12, 7-8=11(F=-2)
   Horz: 1-2=-14, 2-4=4, 4-6=30, 8-9=-25, 7-8=25, 2-13=21, 6-7=28
   Trapezoidal Loads (plf)
   Vert: 27=12(F=-6)-to-5=16(F=-2), 9=7(F=-6)-to-8=11(F=-2)
9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=10, 2-4=18, 4-27=-16, 5-6=-18(F=-2), 9-13=-12, 7-8=11(F=-2)
   Horz: 1-2=-22, 2-4=-30, 4-6=-4, 8-9=-25, 7-8=25, 2-13=-28, 6-7=-21
   Trapezoidal Loads (plf)
   Vert: 27=-22(F=-6)-to-5=-18(F=-2), 9=7(F=-6)-to-8=11(F=-2)
10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-31, 2-4=-39, 4-27=-5, 5-6=-7(F=-2), 9-13=-20, 7-8=3(F=-2)
   Horz: 1-2=11, 2-4=19, 4-6=15, 8-9=-25, 7-8=25, 2-13=36, 6-7=13
   Trapezoidal Loads (plf)
   Vert: 27=-11(F=-6)-to-5=-7(F=-2), 9=-1(F=-6)-to-8=3(F=-2)
11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=2, 2-4=-5, 4-27=-39, 5-6=-41(F=-2), 9-13=-20, 7-8=3(F=-2)
   Horz: 1-2=-22, 2-4=-15, 4-6=-19, 8-9=-25, 7-8=25, 2-13=-13, 6-7=-36
   Trapezoidal Loads (plf)
   Vert: 27=-45(F=-6)-to-5=-41(F=-2), 9=-1(F=-6)-to-8=3(F=-2)
12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=33, 2-4=40, 4-27=18, 5-6=16(F=-2), 9-13=-12, 7-8=-14(F=-2)
   Horz: 1-2=-45, 2-4=-52, 4-6=30, 2-13=18, 6-7=25
   Trapezoidal Loads (plf)
   Vert: 27=12(F=-6)-to-5=16(F=-2), 9=-18(F=-6)-to-8=-14(F=-2)
13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=10, 2-4=18, 4-27=40, 5-6=38(F=-2), 9-13=-12, 7-8=-14(F=-2)
   Horz: 1-2=-22, 2-4=-30, 4-6=52, 2-13=-25, 6-7=-18
   Trapezoidal Loads (plf)
   Vert: 27=34(F=-6)-to-5=38(F=-2), 9=-18(F=-6)-to-8=-14(F=-2)

Continued on page 3

LOAD CASE(S) Standard

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=33, 2-4=40, 4-27=18, 5-6=16(F=-2), 9-13=-12, 7-8=-14(F=-2)
Horz: 1-2=-45, 2-4=-52, 4-6=30, 2-13=18, 6-7=25
Trapezoidal Loads (plf)
Vert: 27=12(F=-6)-to-5=16(F=-2), 9=-18(F=-6)-to-8=-14(F=-2)

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=10, 2-4=18, 4-27=40, 5-6=38(F=-2), 9-13=-12, 7-8=-14(F=-2)
Horz: 1-2=-22, 2-4=-30, 4-6=52, 2-13=-25, 6-7=-18
Trapezoidal Loads (plf)
Vert: 27=34(F=-6)-to-5=38(F=-2), 9=-18(F=-6)-to-8=-14(F=-2)

16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=25, 2-4=17, 4-27=-5, 5-6=-7(F=-2), 9-13=-20, 7-8=-22(F=-2)
Horz: 1-2=-45, 2-4=-37, 4-6=15, 2-13=33, 6-7=10
Trapezoidal Loads (plf)
Vert: 27=-11(F=-6)-to-5=-7(F=-2), 9=-26(F=-6)-to-8=-22(F=-2)

17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=2, 2-4=-5, 4-27=17, 5-6=15(F=-2), 9-13=-20, 7-8=-22(F=-2)
Horz: 1-2=-22, 2-4=-15, 4-6=37, 2-13=-10, 6-7=-33
Trapezoidal Loads (plf)
Vert: 27=11(F=-6)-to-5=15(F=-2), 9=-26(F=-6)-to-8=-22(F=-2)

18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-20, 2-4=-20, 4-27=-20, 5-6=-22(F=-2), 9-13=-20, 7-8=-22(F=-2)
Trapezoidal Loads (plf)
Vert: 27=-26(F=-6)-to-5=-22(F=-2), 9=-26(F=-6)-to-8=-22(F=-2)

19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-58, 2-4=-64, 4-27=-39, 5-6=-41(F=-2), 9-13=-20, 7-8=-3(F=-2)
Horz: 1-2=8, 2-4=14, 4-6=11, 8-9=-19, 7-8=19, 2-13=27, 6-7=9
Trapezoidal Loads (plf)
Vert: 27=-45(F=-6)-to-5=-41(F=-2), 9=-7(F=-6)-to-8=-3(F=-2)

20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-33, 2-4=-39, 4-27=-64, 5-6=-66(F=-2), 9-13=-20, 7-8=-3(F=-2)
Horz: 1-2=-17, 2-4=-11, 4-6=-14, 8-9=-19, 7-8=19, 2-13=-9, 6-7=-27
Trapezoidal Loads (plf)
Vert: 27=-70(F=-6)-to-5=-66(F=-2), 9=-7(F=-6)-to-8=-3(F=-2)

21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-17, 2-4=-22, 4-27=-39, 5-6=-41(F=-2), 9-13=-20, 7-8=-22(F=-2)
Horz: 1-2=-33, 2-4=-28, 4-6=11, 2-13=25, 6-7=8
Trapezoidal Loads (plf)
Vert: 27=-45(F=-6)-to-5=-41(F=-2), 9=-26(F=-6)-to-8=-22(F=-2)

22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-33, 2-4=-39, 4-27=-22, 5-6=-24(F=-2), 9-13=-20, 7-8=-22(F=-2)
Horz: 1-2=-17, 2-4=-11, 4-6=28, 2-13=-8, 6-7=-25
Trapezoidal Loads (plf)
Vert: 27=-28(F=-6)-to-5=-24(F=-2), 9=-26(F=-6)-to-8=-22(F=-2)

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-4=-60, 4-27=-20, 5-6=-22(F=-2), 9-13=-20, 7-8=-22(F=-2)
Trapezoidal Loads (plf)
Vert: 27=-26(F=-6)-to-5=-22(F=-2), 9=-26(F=-6)-to-8=-22(F=-2)

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-20, 2-4=-20, 4-27=-60, 5-6=-62(F=-2), 9-13=-20, 7-8=-22(F=-2)
Trapezoidal Loads (plf)
Vert: 27=-66(F=-6)-to-5=-62(F=-2), 9=-26(F=-6)-to-8=-22(F=-2)

25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-50, 2-4=-50, 4-27=-20, 5-6=-22(F=-2), 9-13=-20, 7-8=-22(F=-2)
Trapezoidal Loads (plf)
Vert: 27=-26(F=-6)-to-5=-22(F=-2), 9=-26(F=-6)-to-8=-22(F=-2)

26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-20, 2-4=-20, 4-27=-50, 5-6=-52(F=-2), 9-13=-20, 7-8=-22(F=-2)
Trapezoidal Loads (plf)
Vert: 27=-56(F=-6)-to-5=-52(F=-2), 9=-26(F=-6)-to-8=-22(F=-2)

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	K02	Roof Special	3	1	I43774348
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:34:14 2020 Page 1
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-1-11-0 | 5-7-10 | 10-11-12 | 16-11-8 | 21-11-8
1-11-0 | 5-7-10 | 5-4-2 | 5-11-12 | 5-0-0

Scale: 1/4"=1'

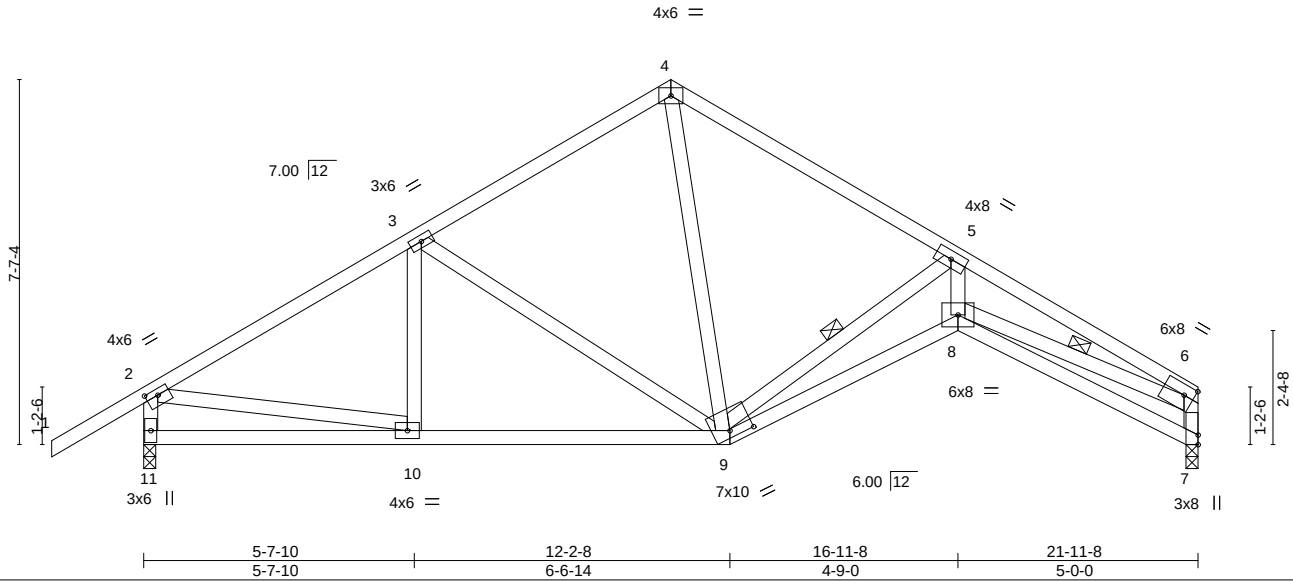


Plate Offsets (X,Y)-- [2:0-3-0,0-1-8], [6:0-2-8,0-2-8], [9:0-5-12,0-1-12]

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	0.69	Vert(LL)	-0.15	8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.31	8-9	>842	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.95	Horz(CT)	-0.24	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.37	8-9	>702	240	Weight: 132 lb	FT = 20%

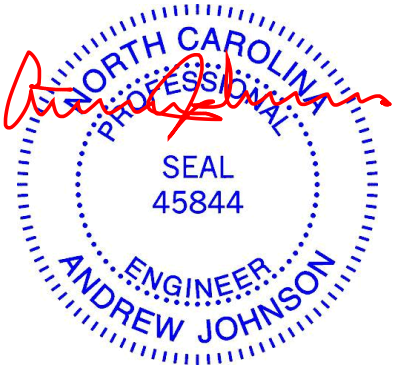
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-11,6-7: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-1-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-5-12 oc bracing.
WEBS 1 Row at midpt 5-9, 6-8

REACTIONS. (size) 11=0-3-0, 7=0-3-0
Max Horz 11=286(LC 11)
Max Uplift 11=-287(LC 12), 7=-217(LC 13)
Max Grav 11=996(LC 1), 7=861(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1102/1274, 3-4=-802/1010, 4-5=-892/1164, 5-6=-2783/3359, 2-11=-947/1019, 6-7=-863/1024
BOT CHORD 10-11=-267/274, 9-10=-1028/879, 8-9=-3062/2632
WEBS 3-9=-387/455, 4-9=-877/465, 5-9=-2112/2624, 5-8=-2555/1954, 2-10=-888/823, 6-8=-2687/2291

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; porch left 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) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=287, 7=217.



November 25,2020

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	K03	Roof Special	1	1	I43774349
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:34:15 2020 Page 1
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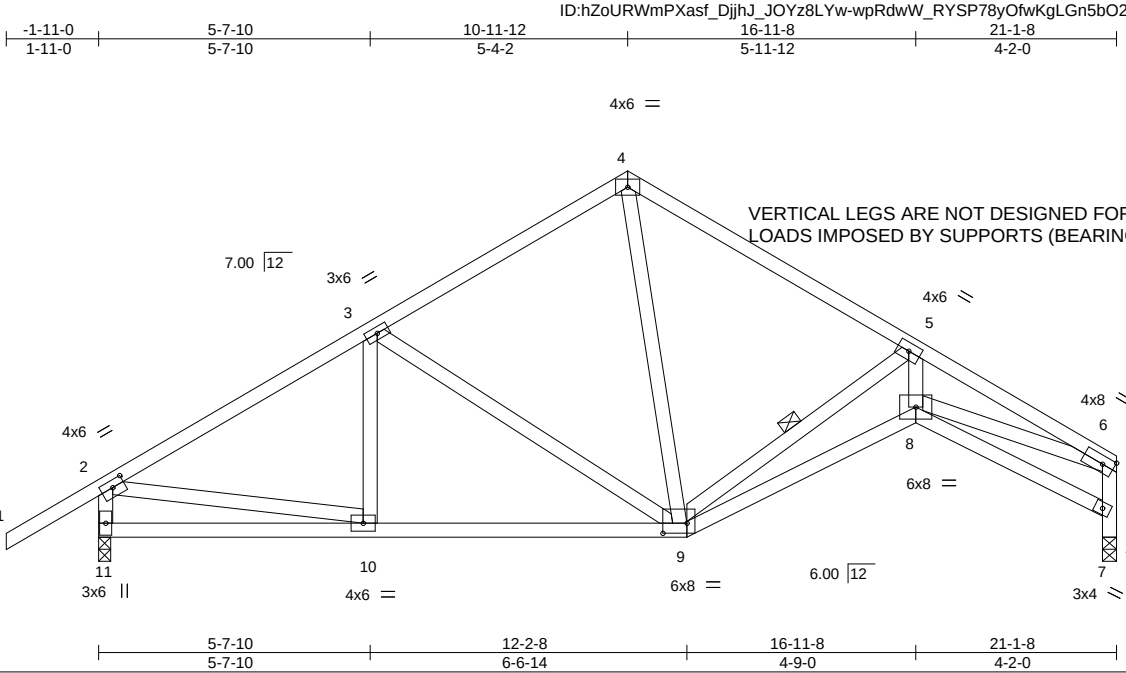

Plate Offsets (X,Y)-- [2:0-3-0,0-1-12], [9:0-6-0,0-2-8]

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	0.56	Vert(LL)	-0.10	8-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.21	8-9	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.82	Horz(CT)	-0.20	12	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.28	8-9	>887	240	Weight: 128 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-11,6-12: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-8-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-9-2 oc bracing.
WEBS 1 Row at midpt 5-9

REACTIONS. (size) 11=0-3-0, 12=0-3-8
Max Horz 11=299(LC 11)
Max Uplift 11=-281(LC 12), 12=-204(LC 13)
Max Grav 11=963(LC 1), 12=827(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1052/1213, 3-4=-744/932, 4-5=-822/1072, 5-6=-2316/2878, 2-11=-914/981, 7-12=-827/1115, 6-7=-811/988
BOT CHORD 10-11=-280/264, 9-10=-1053/836, 8-9=-2676/2198
WEBS 3-9=-394/472, 4-9=-792/415, 5-9=-1694/2187, 5-8=-2096/1515, 2-10=-839/781, 6-8=-2329/1916

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; porch left 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) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=281, 12=204.

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Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	L01	GABLE	1	1	I43774350
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:34:16 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-O0?07s?3JmX_l5zsU2Bao_eo7SJXBrWZKguqalyFfDb

-1-11-0 | 5-0-0 | 10-0-0 | 11-11-0
1-11-0 | 5-0-0 | 5-0-0 | 1-11-0

Scale = 1:28.4

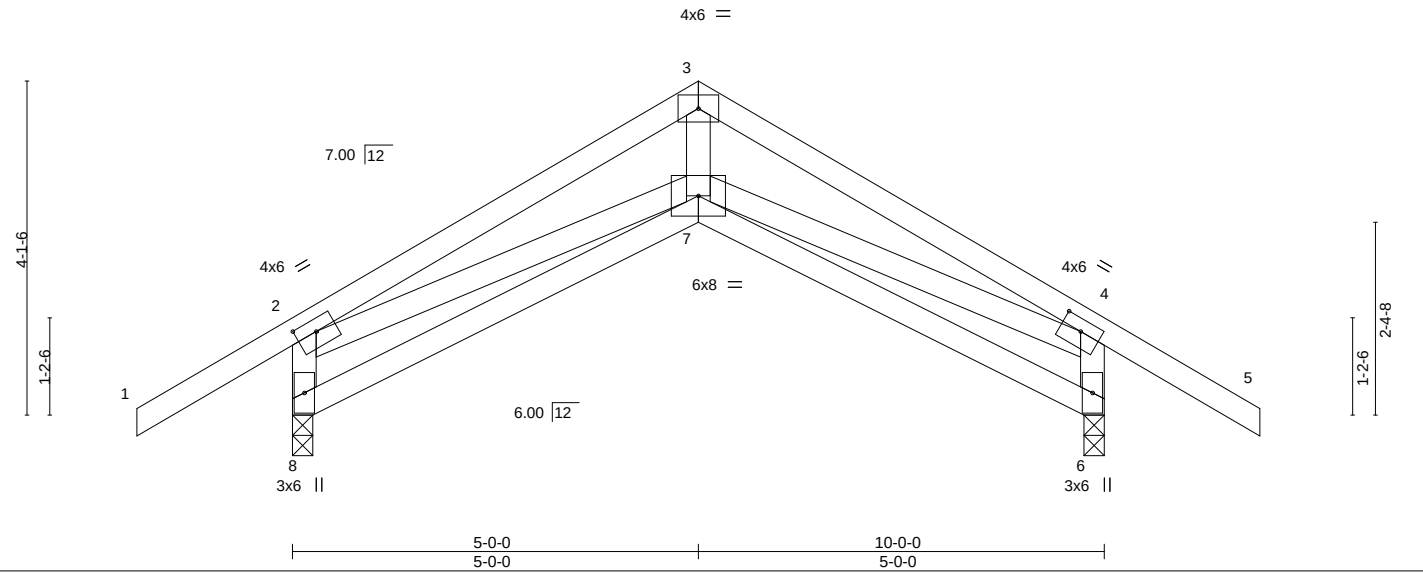

Plate Offsets (X,Y)-- [2:0-3-0,0-1-12], [4:0-3-0,0-1-12]

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	0.43	Vert(LL)	-0.03	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.06	6-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.25	Horz(CT)	0.05	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.10	6-7	>999	240	Weight: 60 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-8,4-6: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-10-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-0, 6=0-3-0
Max Horz 8=-184(LC 10)
Max Uplift 8=-147(LC 12), 6=-147(LC 13)
Max Grav 8=531(LC 1), 6=532(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-859/797, 3-4=-854/799, 2-8=-553/505, 4-6=-507/525
BOT CHORD 7-8=-174/279, 6-7=-43/300
WEBS 3-7=-634/549, 2-7=-368/611, 4-7=-436/619

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; porch left 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 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) Bearing at joint(s) 8, 6 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 100 lb uplift at joint(s) except (jt=lb) 8=147, 6=147.
9) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
10) 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=-62(F=-2), 3-4=-62(F=-2), 4-5=-60, 7-8=-22(F=-2), 6-7=-22(F=-2)

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LOAD CASE(S) Standard

2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-50, 2-3=-52(F=-2), 3-4=-52(F=-2), 4-5=-50, 7-8=-22(F=-2), 6-7=-22(F=-2)
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-2=-20, 2-3=-22(F=-2), 3-4=-22(F=-2), 4-5=-20, 7-8=-42(F=-2), 6-7=-42(F=-2)
4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=67, 2-3=39(F=-2), 3-4=39(F=-2), 4-5=34, 7-8=78(F=-2), 6-7=78(F=-2)
   Horz: 1-2=-79, 2-3=-53, 3-4=53, 4-5=46, 7-8=-92, 6-7=92, 2-8=30, 4-6=50
5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=34, 2-3=39(F=-2), 3-4=39(F=-2), 4-5=67, 7-8=78(F=-2), 6-7=78(F=-2)
   Horz: 1-2=-46, 2-3=-53, 3-4=53, 4-5=79, 7-8=-92, 6-7=92, 2-8=-50, 4-6=-30
6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=15, 2-3=-65(F=-2), 3-4=-65(F=-2), 4-5=-55, 7-8=-6(F=-2), 6-7=-6(F=-2)
   Horz: 1-2=-35, 2-3=43, 3-4=-43, 4-5=-35, 7-8=-16, 6-7=16, 2-8=-35, 4-6=-45
7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-55, 2-3=-65(F=-2), 3-4=-65(F=-2), 4-5=15, 7-8=-6(F=-2), 6-7=-6(F=-2)
   Horz: 1-2=35, 2-3=43, 3-4=-43, 4-5=35, 7-8=-16, 6-7=16, 2-8=45, 4-6=35
8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=2, 2-3=-18(F=-2), 3-4=16(F=-2), 4-5=10, 7-8=11(F=-2), 6-7=11(F=-2)
   Horz: 1-2=-14, 2-3=4, 3-4=30, 4-5=22, 7-8=-25, 6-7=25, 2-8=21, 4-6=28
9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=10, 2-3=16(F=-2), 3-4=-18(F=-2), 4-5=2, 7-8=-14(F=-2), 6-7=-14(F=-2)
   Horz: 1-2=-22, 2-3=-30, 3-4=-4, 4-5=14, 2-8=-28, 4-6=-21
10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-31, 2-3=-41(F=-2), 3-4=-7(F=-2), 4-5=2, 7-8=3(F=-2), 6-7=3(F=-2)
    Horz: 1-2=11, 2-3=19, 3-4=15, 4-5=22, 7-8=-25, 6-7=25, 2-8=36, 4-6=13
11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=2, 2-3=-7(F=-2), 3-4=-41(F=-2), 4-5=-31, 7-8=-22(F=-2), 6-7=-22(F=-2)
    Horz: 1-2=-22, 2-3=-15, 3-4=-19, 4-5=-11, 2-8=-13, 4-6=-36
12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=33, 2-3=38(F=-2), 3-4=16(F=-2), 4-5=10, 7-8=-14(F=-2), 6-7=-14(F=-2)
    Horz: 1-2=-45, 2-3=-52, 3-4=30, 4-5=22, 2-8=18, 4-6=25
13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=10, 2-3=16(F=-2), 3-4=38(F=-2), 4-5=33, 7-8=-14(F=-2), 6-7=-14(F=-2)
    Horz: 1-2=-22, 2-3=-30, 3-4=52, 4-5=45, 2-8=-25, 4-6=-18
14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=33, 2-3=38(F=-2), 3-4=16(F=-2), 4-5=10, 7-8=-14(F=-2), 6-7=-14(F=-2)
    Horz: 1-2=-45, 2-3=-52, 3-4=30, 4-5=22, 2-8=18, 4-6=25
15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=10, 2-3=16(F=-2), 3-4=38(F=-2), 4-5=33, 7-8=-14(F=-2), 6-7=-14(F=-2)
    Horz: 1-2=-22, 2-3=-30, 3-4=52, 4-5=45, 2-8=-25, 4-6=-18
16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=25, 2-3=15(F=-2), 3-4=-7(F=-2), 4-5=2, 7-8=-22(F=-2), 6-7=-22(F=-2)
    Horz: 1-2=-45, 2-3=-37, 3-4=15, 4-5=22, 2-8=33, 4-6=10
17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=2, 2-3=-7(F=-2), 3-4=15(F=-2), 4-5=25, 7-8=-22(F=-2), 6-7=-22(F=-2)
    Horz: 1-2=-22, 2-3=-15, 3-4=37, 4-5=45, 2-8=-10, 4-6=-33
18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
    Uniform Loads (plf)
    Vert: 1-2=-20, 2-3=-22(F=-2), 3-4=-22(F=-2), 4-5=-20, 7-8=-22(F=-2), 6-7=-22(F=-2)
19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-58, 2-3=-66(F=-2), 3-4=-41(F=-2), 4-5=-33, 7-8=-3(F=-2), 6-7=-3(F=-2)
    Horz: 1-2=8, 2-3=14, 3-4=11, 4-5=17, 7-8=-19, 6-7=19, 2-8=27, 4-6=9
20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-33, 2-3=-41(F=-2), 3-4=-66(F=-2), 4-5=-58, 7-8=-22(F=-2), 6-7=-22(F=-2)
    Horz: 1-2=-17, 2-3=-11, 3-4=-14, 4-5=-8, 2-8=-9, 4-6=-27
21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=-17, 2-3=-24(F=-2), 3-4=-41(F=-2), 4-5=-33, 7-8=-22(F=-2), 6-7=-22(F=-2)

Horz: 1-2=-33, 2-3=-28, 3-4=11, 4-5=17, 2-8=25, 4-6=8

22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-33, 2-3=-41(F=-2), 3-4=-24(F=-2), 4-5=-17, 7-8=-22(F=-2), 6-7=-22(F=-2)

Horz: 1-2=-17, 2-3=-11, 3-4=28, 4-5=33, 2-8=-8, 4-6=-25

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-60, 2-3=-62(F=-2), 3-4=-22(F=-2), 4-5=-20, 7-8=-22(F=-2), 6-7=-22(F=-2)

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-20, 2-3=-22(F=-2), 3-4=-62(F=-2), 4-5=-60, 7-8=-22(F=-2), 6-7=-22(F=-2)

25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-50, 2-3=-52(F=-2), 3-4=-22(F=-2), 4-5=-20, 7-8=-22(F=-2), 6-7=-22(F=-2)

26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-20, 2-3=-22(F=-2), 3-4=-52(F=-2), 4-5=-50, 7-8=-22(F=-2), 6-7=-22(F=-2)

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	M01	GABLE	1	1	I43774351
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:34:17 2020 Page 1
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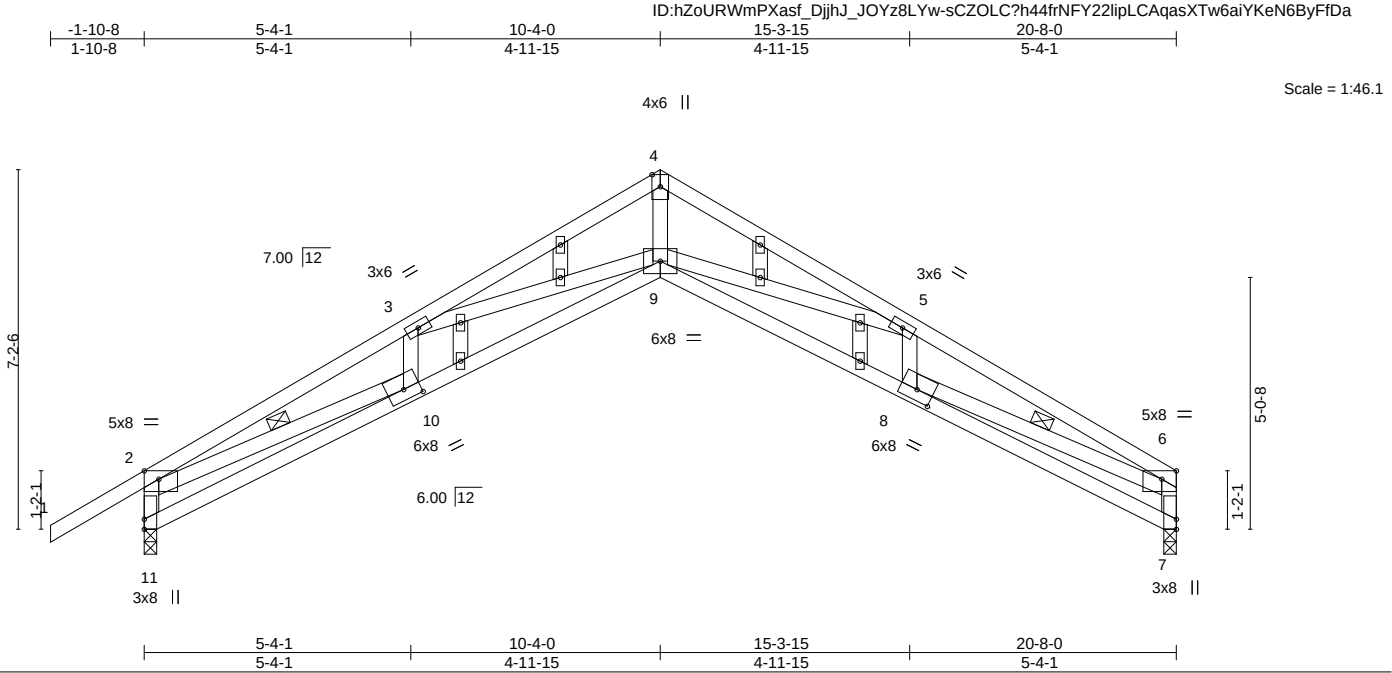

Plate Offsets (X,Y)-- [2:0-3-8,Edge], [6:0-3-8,Edge], [8:0-4-0,0-2-8], [10:0-4-0,0-2-8], [11:0-2-7,Edge]

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	0.96	Vert(LL)	-0.24	9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.51	8-9	>483	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.97	Horz(CT)	-0.56	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.55	8-9	>447	240	Weight: 118 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3 *Except* 4-9,2-11,6-7: 2x4 SP No.2
OTHERS	2x4 SP No.3

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-7-6 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 2-10-1 oc bracing.
WEBS	1 Row at midpt 2-10, 6-8

REACTIONS. (size) 11=0-3-0, 7=0-3-0
Max Horz 11=272(LC 9)
Max Uplift 11=-232(LC 12), 7=-163(LC 13)
Max Grav 11=983(LC 1), 7=850(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2816/3558, 3-4=-2856/2858, 4-5=-2858/2860, 5-6=-2872/3571, 2-11=-985/1140, 6-7=-865/1033
BOT CHORD 10-11=-298/385, 9-10=-2964/2626, 8-9=-2983/2690
WEBS 4-9=-2675/2494, 5-9=-429/859, 5-8=-335/132, 3-9=-224/796, 3-10=-349/153, 2-10=-2752/2308, 6-8=-2854/2340

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; porch left 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.
8) Bearing at joint(s) 11, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=232, 7=163.
10) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) 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

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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=-62(F=-2), 4-6=-62(F=-2), 9-11=-22(F=-2), 7-9=-22(F=-2)
2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-50, 2-4=-52(F=-2), 4-6=-52(F=-2), 9-11=-22(F=-2), 7-9=-22(F=-2)
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-2=-20, 2-4=-22(F=-2), 4-6=-22(F=-2), 9-11=-42(F=-2), 7-9=-42(F=-2)
4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=63, 2-4=35(F=-2), 4-6=35(F=-2), 9-11=78(F=-2), 7-9=78(F=-2)
   Horz: 1-2=-75, 2-4=-49, 4-6=49, 9-11=-92, 7-9=92, 2-11=26, 6-7=45
5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=30, 2-4=35(F=-2), 4-6=35(F=-2), 9-11=78(F=-2), 7-9=78(F=-2)
   Horz: 1-2=-42, 2-4=-49, 4-6=49, 9-11=-92, 7-9=92, 2-11=-45, 6-7=-26
6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=13, 2-4=-63(F=-2), 4-6=-63(F=-2), 9-11=-9(F=-2), 7-9=-9(F=-2)
   Horz: 1-2=-33, 2-4=41, 4-6=-41, 9-11=-13, 7-9=13, 2-11=-30, 6-7=-41
7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-53, 2-4=-63(F=-2), 4-6=-63(F=-2), 9-11=-9(F=-2), 7-9=-9(F=-2)
   Horz: 1-2=33, 2-4=41, 4-6=-41, 9-11=-13, 7-9=13, 2-11=41, 6-7=30
8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=2, 2-4=-18(F=-2), 4-6=16(F=-2), 9-11=11(F=-2), 7-9=11(F=-2)
   Horz: 1-2=-14, 2-4=4, 4-6=30, 9-11=-25, 7-9=25, 2-11=21, 6-7=28
9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=10, 2-4=16(F=-2), 4-6=-18(F=-2), 9-11=-14(F=-2), 7-9=-14(F=-2)
   Horz: 1-2=-22, 2-4=-30, 4-6=-4, 2-11=-28, 6-7=-21
10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-31, 2-4=-41(F=-2), 4-6=-7(F=-2), 9-11=3(F=-2), 7-9=3(F=-2)
    Horz: 1-2=11, 2-4=19, 4-6=15, 9-11=-25, 7-9=25, 2-11=36, 6-7=13
11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=2, 2-4=-7(F=-2), 4-6=-41(F=-2), 9-11=-22(F=-2), 7-9=-22(F=-2)
    Horz: 1-2=-22, 2-4=-15, 4-6=-19, 2-11=-13, 6-7=-36
12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=33, 2-4=38(F=-2), 4-6=16(F=-2), 9-11=-14(F=-2), 7-9=-14(F=-2)
    Horz: 1-2=-45, 2-4=-52, 4-6=30, 2-11=18, 6-7=25
13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=10, 2-4=16(F=-2), 4-6=38(F=-2), 9-11=-14(F=-2), 7-9=-14(F=-2)
    Horz: 1-2=-22, 2-4=-30, 4-6=52, 2-11=-25, 6-7=-18
14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=33, 2-4=38(F=-2), 4-6=16(F=-2), 9-11=-14(F=-2), 7-9=-14(F=-2)
    Horz: 1-2=-45, 2-4=-52, 4-6=30, 2-11=18, 6-7=25
15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=10, 2-4=16(F=-2), 4-6=38(F=-2), 9-11=-14(F=-2), 7-9=-14(F=-2)
    Horz: 1-2=-22, 2-4=-30, 4-6=52, 2-11=-25, 6-7=-18
16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=25, 2-4=15(F=-2), 4-6=-7(F=-2), 9-11=-22(F=-2), 7-9=-22(F=-2)
    Horz: 1-2=-45, 2-4=-37, 4-6=15, 2-11=33, 6-7=10
17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=2, 2-4=-7(F=-2), 4-6=15(F=-2), 9-11=-22(F=-2), 7-9=-22(F=-2)
    Horz: 1-2=-22, 2-4=-15, 4-6=37, 2-11=-10, 6-7=-33
18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
    Uniform Loads (plf)
    Vert: 1-2=-20, 2-4=-22(F=-2), 4-6=-22(F=-2), 9-11=-22(F=-2), 7-9=-22(F=-2)
19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-58, 2-4=-66(F=-2), 4-6=-41(F=-2), 9-11=-3(F=-2), 7-9=-3(F=-2)
    Horz: 1-2=8, 2-4=14, 4-6=11, 9-11=-19, 7-9=19, 2-11=27, 6-7=9
20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-2=-33, 2-4=-41(F=-2), 4-6=-66(F=-2), 9-11=-22(F=-2), 7-9=-22(F=-2)
Horz: 1-2=-17, 2-4=-11, 4-6=-14, 2-11=-9, 6-7=-27

21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-17, 2-4=-24(F=-2), 4-6=-41(F=-2), 9-11=-22(F=-2), 7-9=-22(F=-2)
Horz: 1-2=-33, 2-4=-28, 4-6=11, 2-11=25, 6-7=8

22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-33, 2-4=-41(F=-2), 4-6=-24(F=-2), 9-11=-22(F=-2), 7-9=-22(F=-2)
Horz: 1-2=-17, 2-4=-11, 4-6=28, 2-11=-8, 6-7=-25

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-4=-62(F=-2), 4-6=-22(F=-2), 9-11=-22(F=-2), 7-9=-22(F=-2)

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-20, 2-4=-22(F=-2), 4-6=-62(F=-2), 9-11=-22(F=-2), 7-9=-22(F=-2)

25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-50, 2-4=-52(F=-2), 4-6=-22(F=-2), 9-11=-22(F=-2), 7-9=-22(F=-2)

26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-20, 2-4=-22(F=-2), 4-6=-52(F=-2), 9-11=-22(F=-2), 7-9=-22(F=-2)

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	M02	Scissor	7	1	I43774352 Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:34:18 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-LO7mYY0JrNni?P7EbTD2uPj1PGvYfZdsnzNxeeyFfDZ

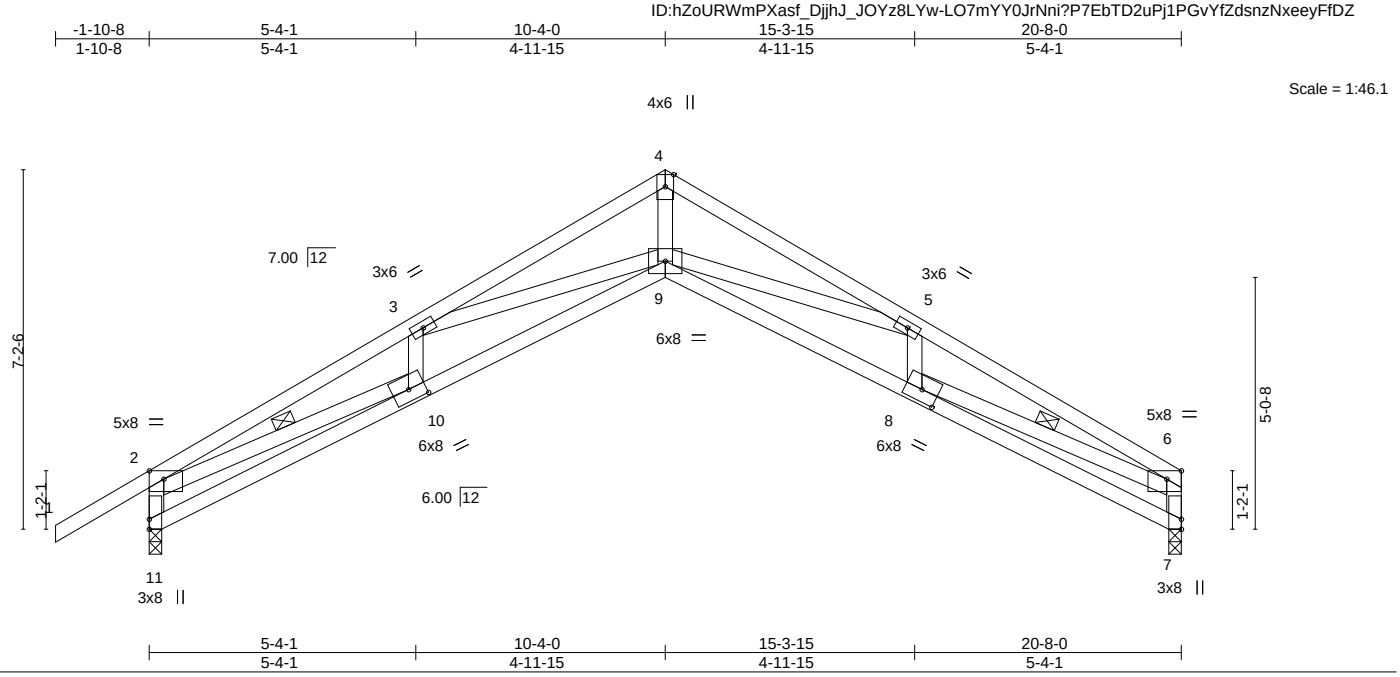


Plate Offsets (X,Y)-- [2:0-3-8,Edge], [6:0-3-8,Edge], [8:0-4-0,0-2-12], [10:0-4-0,0-2-12], [11:0-2-7,Edge]

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	0.89	Vert(LL)	-0.24	9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.48	8-9	>506	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.98	Horz(CT)	-0.57	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.55	8-9	>445	240	Weight: 113 lb	FT = 20%

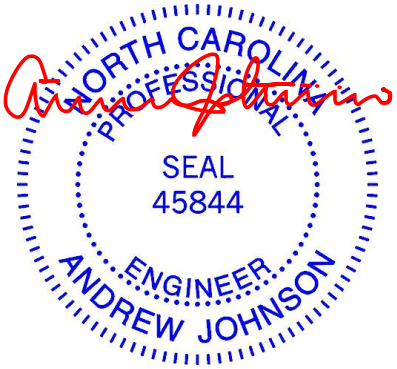
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-11,6-7: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-9-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-8-10 oc bracing.
WEBS 1 Row at midpt 2-10, 6-8

REACTIONS. (size) 11=0-3-0, 7=0-3-0
Max Horz 11=272(LC 9)
Max Uplift 11=-273(LC 12), 7=-204(LC 13)
Max Grav 11=942(LC 1), 7=809(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2680/3689, 3-4=-2719/2989, 4-5=-2721/2991, 5-6=-2735/3703, 2-11=-944/1180, 6-7=-825/1072
BOT CHORD 10-11=-308/371, 9-10=-3090/2496, 8-9=-3109/2560
WEBS 4-9=-2799/2369, 5-9=-430/858, 5-8=-325/141, 3-9=-225/795, 3-10=-340/162, 2-10=-2861/2199, 6-8=-2966/2228

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; porch left 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) Bearing at joint(s) 11, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=273, 7=204.



November 25,2020

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	M03	Roof Special	2	1	I43774353
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:34:19 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-pbh8mu1xchvYcZiR9AlHQdGD2gF0O1S?0d7UA4yFfDY

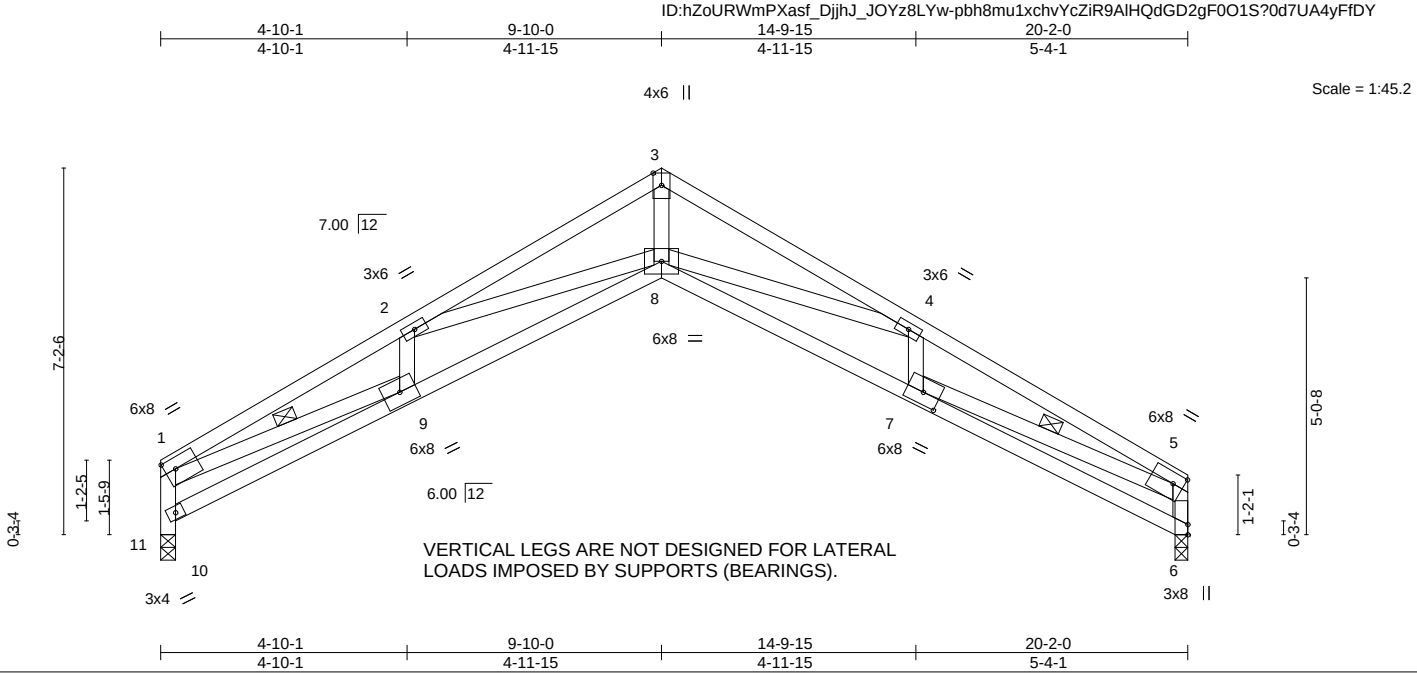


Plate Offsets (X,Y)-- [1:0-2-8,0-2-8], [5:0-2-8,0-2-8], [7:0-4-0,0-2-12]

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	0.77	Vert(LL)	-0.22	8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.44	7-8	>538	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.94	Horz(CT)	-0.53	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.50	7-8	>478	240	Weight: 108 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
1-11,5-6: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-11-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-9-15 oc bracing.
WEBS 1 Row at midpt 1-9, 5-7

REACTIONS. (size) 6=0-3-0, 11=0-3-8
Max Horz 11=-261(LC 10)
Max Uplift 6=-200(LC 13), 11=-196(LC 12)
Max Grav 6=795(LC 1), 11=795(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2503/3358, 2-3=-2630/2818, 3-4=-2630/2818, 4-5=-2677/3590, 10-11=-795/1166, 1-10=-799/1046, 5-6=-811/1044
BOT CHORD 9-10=-357/451, 8-9=-2769/2342, 7-8=-3002/2505
WEBS 2-8=-129/658, 3-8=-2630/2282, 4-8=-452/914, 4-7=-317/139, 1-9=-2656/2047, 5-7=-2868/2177, 2-9=-358/169

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; porch left 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) Bearing at joint(s) 6, 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=200, 11=196.

November 25,2020

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	M04	Roof Special	4	1	I43774354
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:34:20 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-HnEWzE2ZN_1PEjHdjuGWzqoQ53c97VV9EHs2jWyFfDX

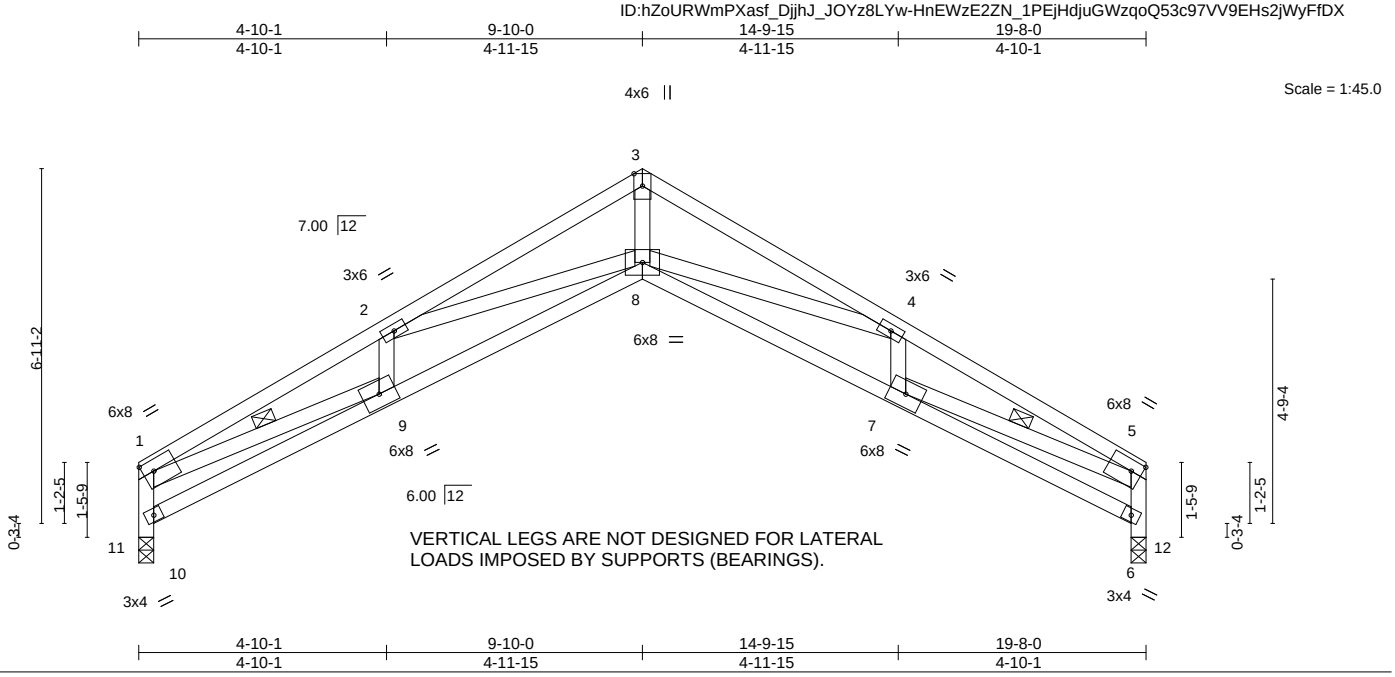


Plate Offsets (X,Y)-- [1:0-2-8,0-2-8], [5:0-2-8,0-2-8]

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	0.69	Vert(LL)	-0.19	8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.39	8-9	>597	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.89	Horz(CT)	-0.50	12	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.45	8-9	>514	240	Weight: 106 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
1-11,5-12: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-0-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-10-1 oc bracing.
WEBS 1 Row at midpt 1-9, 5-7

REACTIONS. (size) 11=0-3-8, 12=0-3-8
Max Horz 11=256(LC 11)
Max Uplift 11=-193(LC 12), 12=-193(LC 13)
Max Grav 11=775(LC 1), 12=775(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2427/3345, 2-3=-2508/2787, 3-4=-2508/2787, 4-5=-2427/3316, 10-11=-775/1137, 1-10=-779/1047, 6-12=-775/1137, 5-6=-779/1021
BOT CHORD 9-10=-368/442, 8-9=-2811/2270, 7-8=-2783/2270
WEBS 3-8=-2599/2157, 4-8=-396/725, 2-8=-172/700, 1-9=-2629/1981, 5-7=-2668/1981, 2-9=-348/166, 4-7=-341/145

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; porch left 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) Bearing at joint(s) 11, 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=193, 12=193.

November 25,2020

ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	PB01	GABLE	1	1	I43774355
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:34:22 2020 Page 1
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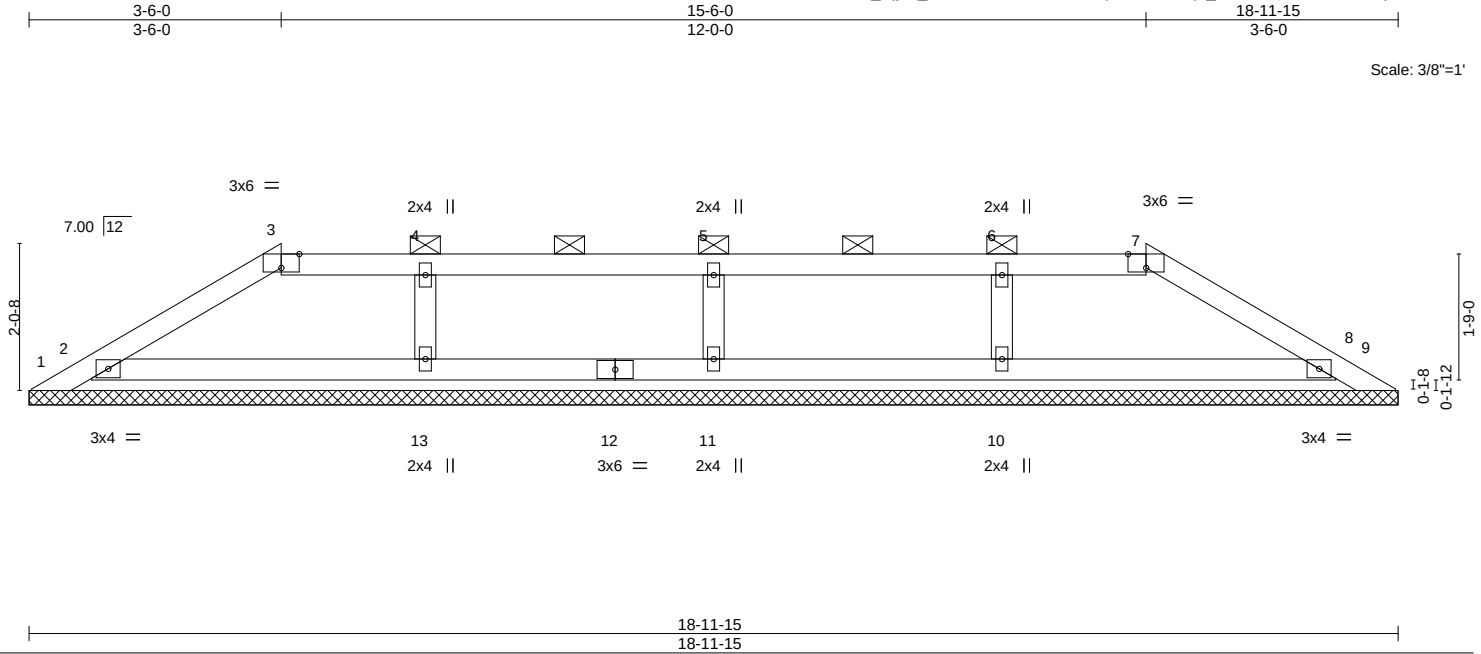


Plate Offsets (X,Y)-- [3:0-3-0,Edge], [7:0-3-0,Edge]

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	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 61 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 18-11-15.
(lb) - Max Horz 1=60(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 13, 10 except 1=-142(LC 19), 9=-117(LC 20), 2=-178(LC 12), 11=-127(LC 8), 8=-156(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 9 except 2=397(LC 19), 11=321(LC 23), 13=322(LC 23), 10=322(LC 24), 8=374(LC 24)

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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 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) 13, 10 except (jt=lb) 1=142, 9=117, 2=178, 11=127, 8=156.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

November 25,2020

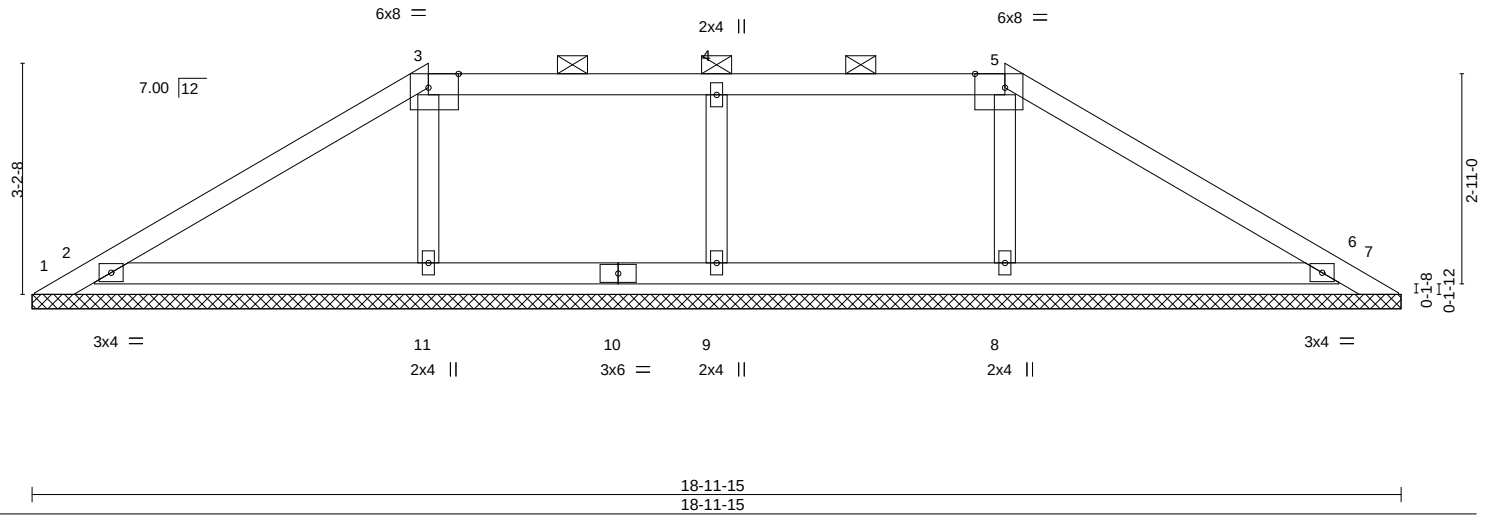
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	PB02	GABLE	1	1	I43774356
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:34:24 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-9YU1pb54QDXrjKaOyjKS7gzBDh583WTk9vqFsHyFfDT

5-6-0 | 13-6-0 | 18-11-15
5-6-0 | 8-0-0 | 5-6-0

Scale: 3/8"=1'



18-11-15
18-11-15

Plate Offsets (X,Y)-- [3:0-5-0,Edge], [5:0-5-0,Edge]

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	0.30	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 67 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 18-11-15.
(lb) - Max Horz 1=-99(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 11, 8 except 1=-286(LC 19), 7=-249(LC 20), 2=-304(LC 12), 9=-148(LC 8), 6=-287(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 2=531(LC 19), 9=341(LC 23), 11=321(LC 1), 8=321(LC 1), 6=512(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-9=-271/191

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 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) 11, 8 except (jt=lb) 1=286, 7=249, 2=304, 9=148, 6=287.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

November 25,2020

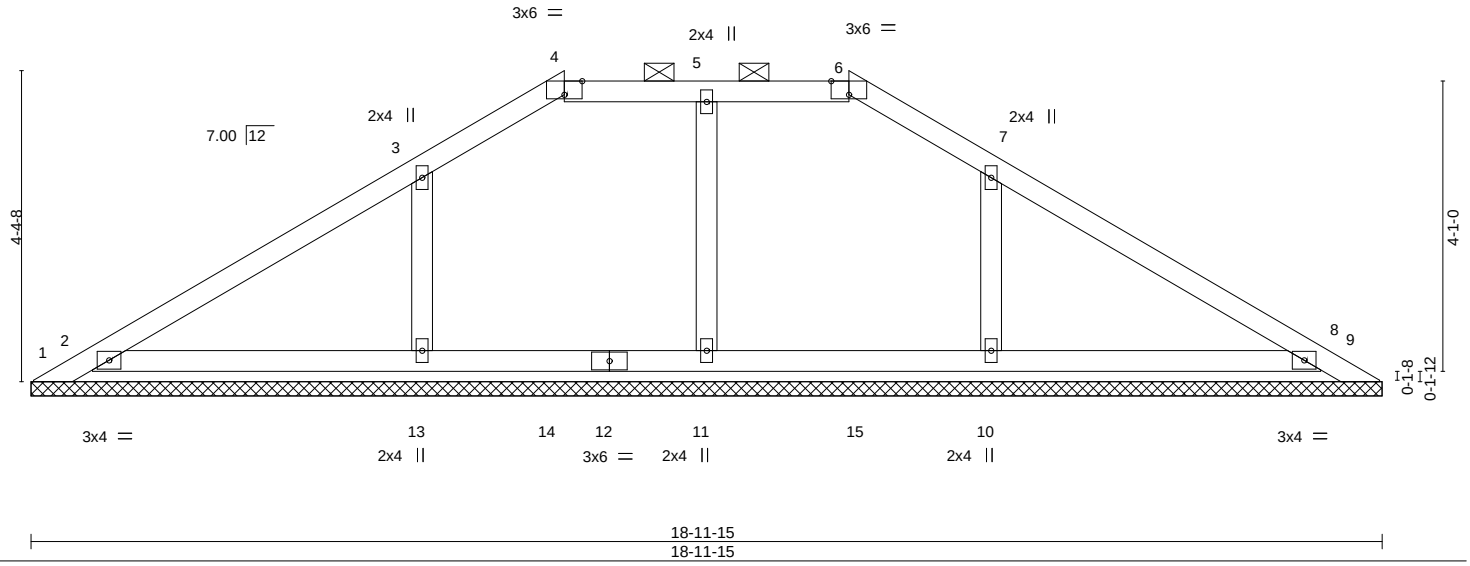
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	PB03	Piggyback	2	1	I43774357
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:34:26 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-6xcoEH6KyqnZyekn38NwC52XHUnZXPv1dDJMwAyFfDR

7-5-15 | 11-6-0 | 18-11-15
7-5-15 | 4-0-0 | 7-5-15

Scale = 1:32.4



18-11-15
18-11-15

Plate Offsets (X,Y)-- [4:0-3-0,Edge], [6:0-3-0,Edge]

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	0.26	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 70 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 18-11-15.
(lb) - Max Horz 1=-138(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 11 except 1=-256(LC 19), 9=-206(LC 20), 2=-240(LC 12), 13=-170(LC 12), 10=-166(LC 13), 8=-204(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 9 except 2=492(LC 19), 11=328(LC 2), 13=390(LC 19), 10=386(LC 20), 8=455(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-13=-289/224, 7-10=-289/220

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 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, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 1=256, 9=206, 2=240, 13=170, 10=166, 8=204.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

November 25,2020

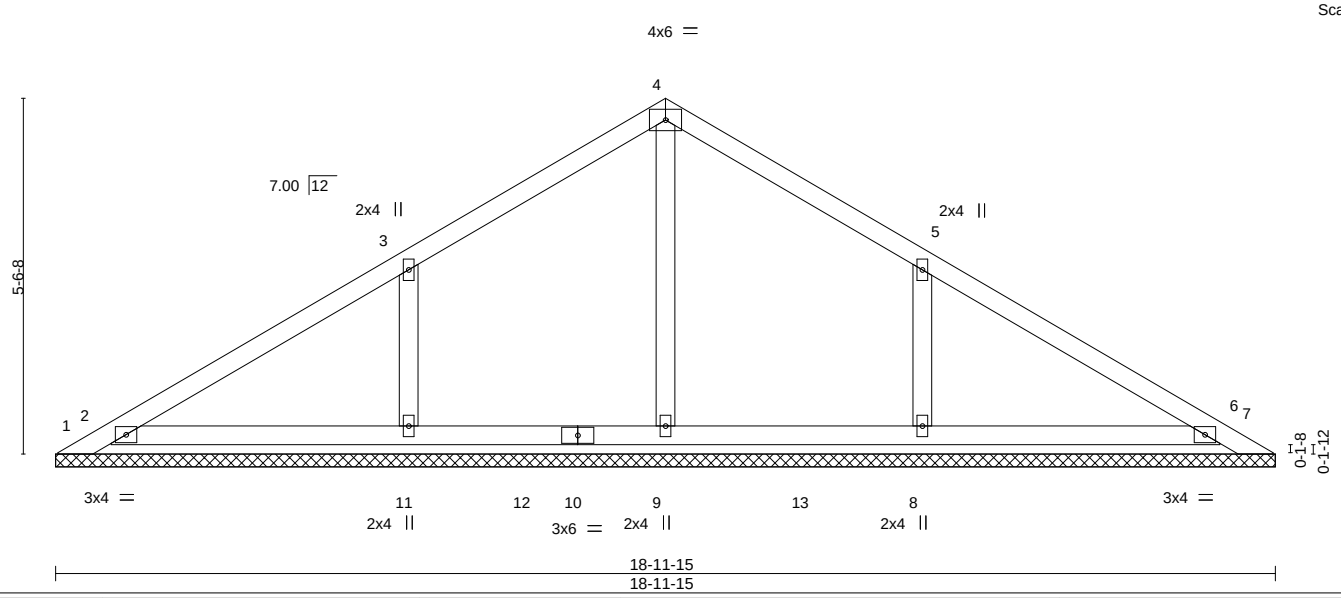
ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	PB04	GABLE	13	1	I43774358
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:34:27 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-a7AARd7yj8vQaoJzdsu9lJbjHu7rGsmBrt3vScyFfDQ

9-6-0 18-11-15
9-6-0 9-6-0

Scale = 1:35.9



18-11-15
18-11-15

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	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 73 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

REACTIONS. All bearings 18-11-15.
(lb) - Max Horz 1=-179(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) except 1=-254(LC 19), 7=-187(LC 20), 2=-227(LC 12), 11=-218(LC 12), 8=-218(LC 13), 6=-191(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 2=456(LC 19), 9=353(LC 19), 11=435(LC 19), 8=434(LC 20), 6=416(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-223/270
WEBS 3-11=-347/272, 5-8=-347/271

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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 4-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 254 lb uplift at joint 1, 187 lb uplift at joint 7, 227 lb uplift at joint 2, 218 lb uplift at joint 11, 218 lb uplift at joint 8 and 191 lb uplift at joint 6.
9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

November 25,2020

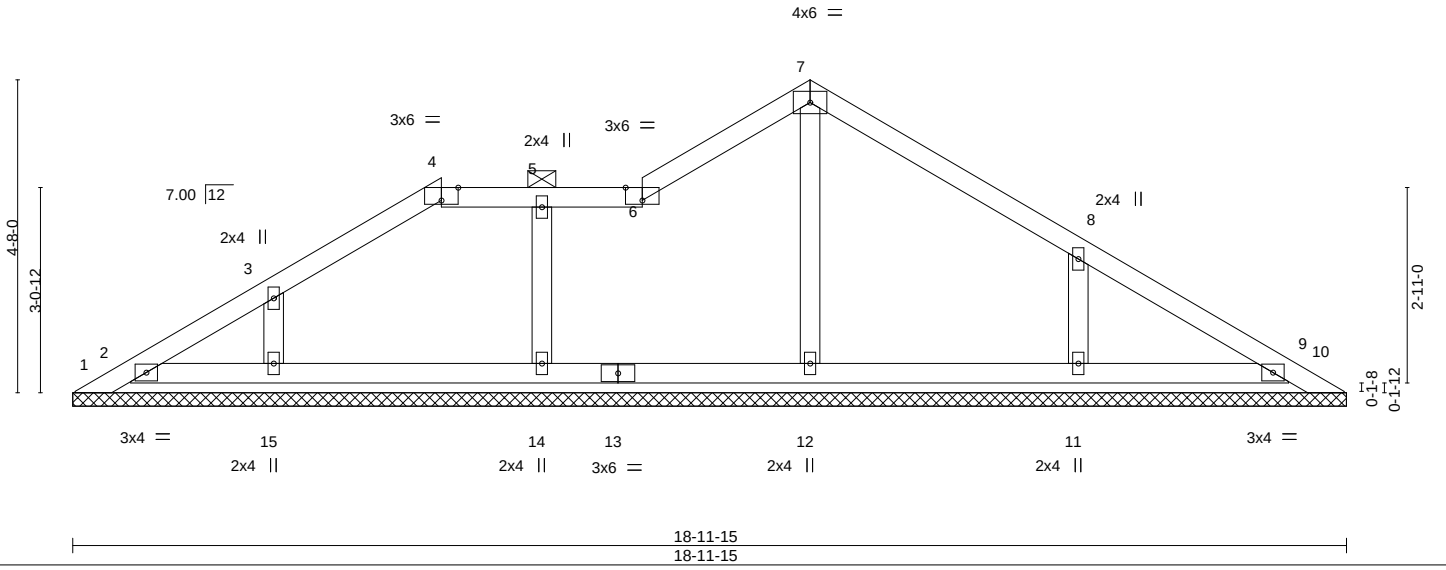
ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	PB05	GABLE	1	1	I43774359
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:34:29 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-WWHwsJ9DFlA8p5TMlHwdqkg3eipykmQTJBY0XVyFfDO

5-5-15 | 8-5-15 | 10-11-15 | 18-11-15
5-5-15 | 2-11-15 | 2-6-1 | 8-0-0

Scale = 1:34.4



18-11-15
18-11-15

Plate Offsets (X,Y)-- [4:0-3-0,Edge], [6:0-3-0,Edge]

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	0.25	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 71 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 18-11-15.
(lb) - Max Horz 1=150(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 10, 2, 12, 9 except 14=-165(LC 12), 15=-146(LC 12), 11=-190(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 10, 2, 9 except 12=297(LC 1), 14=356(LC 23), 15=292(LC 19), 11=357(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 5-14=-274/214, 8-11=-298/234

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 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) 1, 10, 2, 12, 9 except (jt=lb) 14=165, 15=146, 11=190.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

NORTH CAROLINA PROFESSIONAL SEAL 45844 ENGINEER ANDREW JOHNSON

November 25,2020

ENGINEERING BY TRENCO A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	PB06	GABLE	1	1	I43774360
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:34:31 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-SuPhH?ATnNQr2Pdkshy5v9lPvVVNCg4mmV17bNyFfDM

3-5-15 | 6-5-15 | 10-11-15 | 18-11-15
3-5-15 | 2-11-15 | 4-6-1 | 8-0-0

Scale = 1:34.4

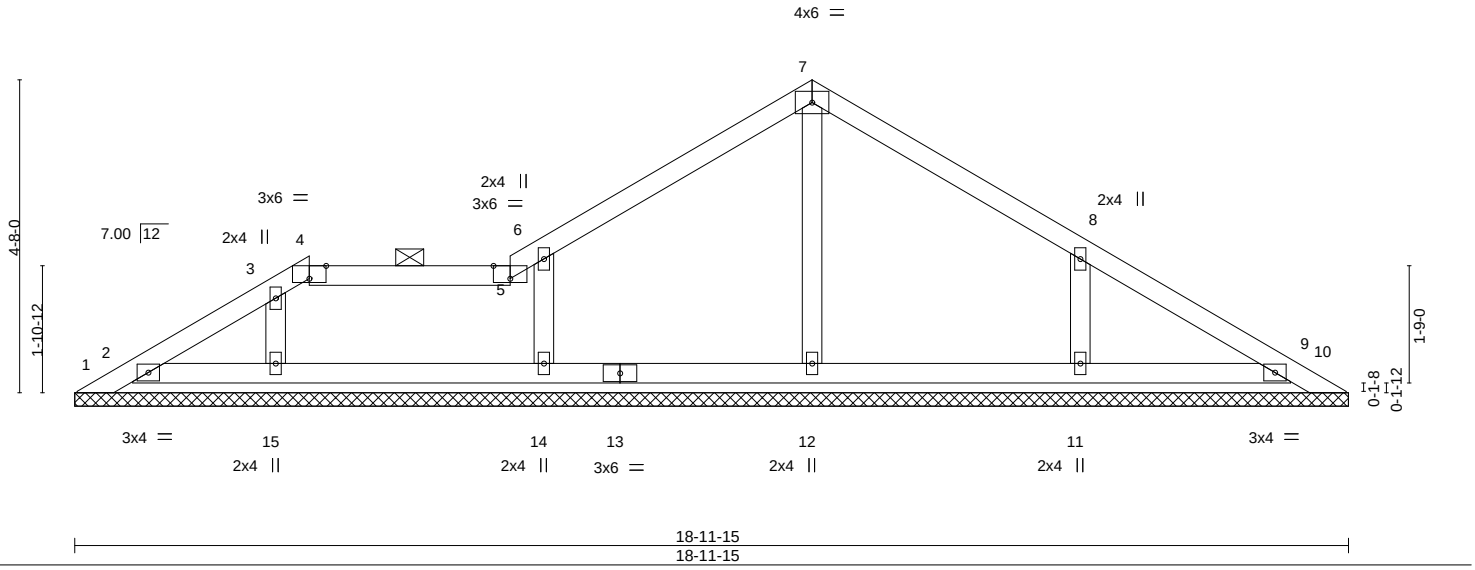


Plate Offsets (X,Y)-- [4:0-3-0,Edge], [5:0-3-0,Edge]

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	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 70 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 18-11-15.
(lb) - Max Horz 1=150(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 10, 2, 9 except 1=-102(LC 8), 14=-177(LC 12), 15=-111(LC 12), 11=-191(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 10, 2, 9 except 12=263(LC 1), 14=361(LC 23), 15=251(LC 1), 11=359(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 6-14=-290/231, 8-11=-296/236

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 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) 10, 2, 9 except (jt=lb) 1=102, 14=177, 15=111, 11=191.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

November 25,2020

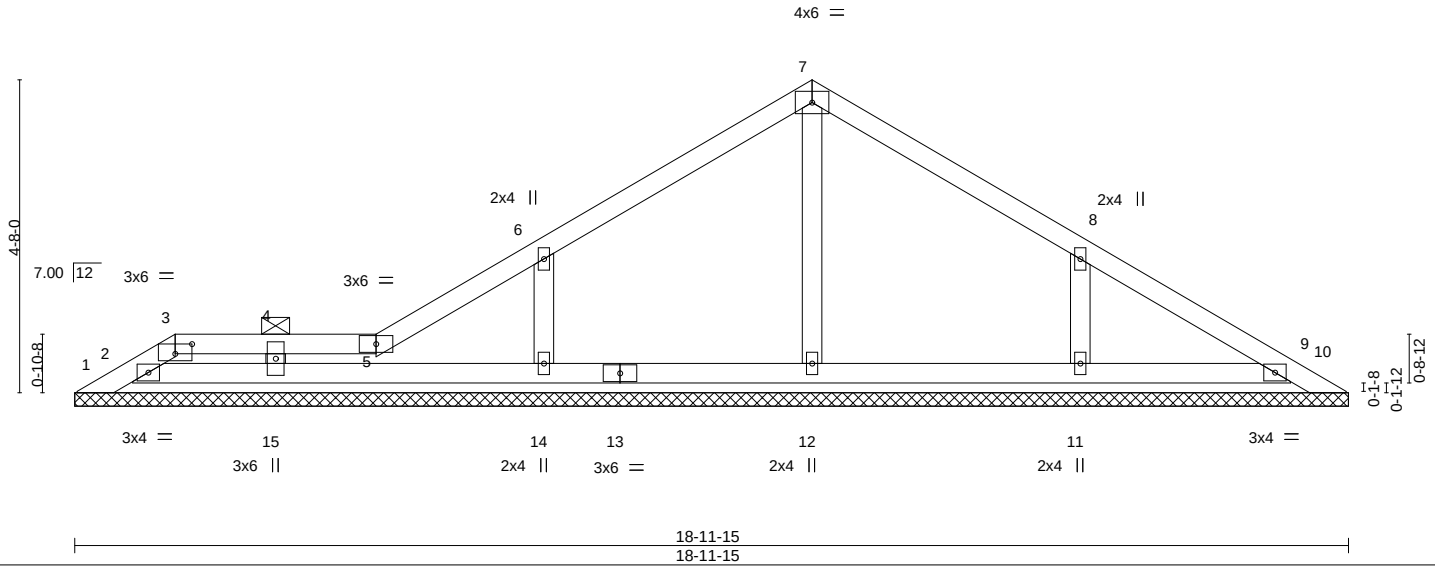
ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	PB07	GABLE	1	1	I43774361
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:34:32 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-w5z3UKB5YgYigZCxQPTKSMIaPvrfx7rw?9mg8qyFfDL

1-5-15 | 4-5-15 | 10-11-15 | 18-11-15
1-5-15 | 2-11-15 | 6-6-1 | 8-0-0

Scale = 1:34.4



18-11-15
18-11-15

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

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	0.22	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 69 lb	FT = 20%

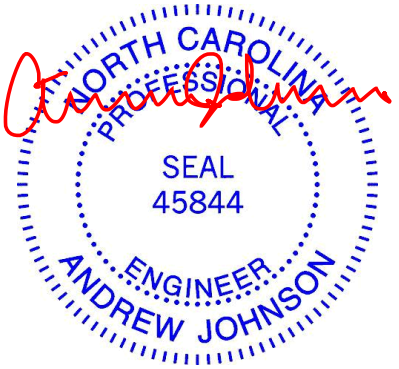
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins, except
2-0-0 oc purlins (10-0-0 max.): 3-5.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 18-11-15.
(lb) - Max Horz 1=150(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 1, 10, 9, 15 except 2=-122(LC 12), 14=-182(LC 12), 11=-192(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 10, 2, 9 except 12=351(LC 1), 14=361(LC 19), 15=257(LC 1), 11=360(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 7-12=-271/52, 6-14=-302/232, 8-11=-299/236

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 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) 1, 10, 9, 15 except (jt=lb) 2=122, 14=182, 11=192.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 25,2020

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	PB08	GABLE	5	1	I43774362
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:34:34 2020 Page 1
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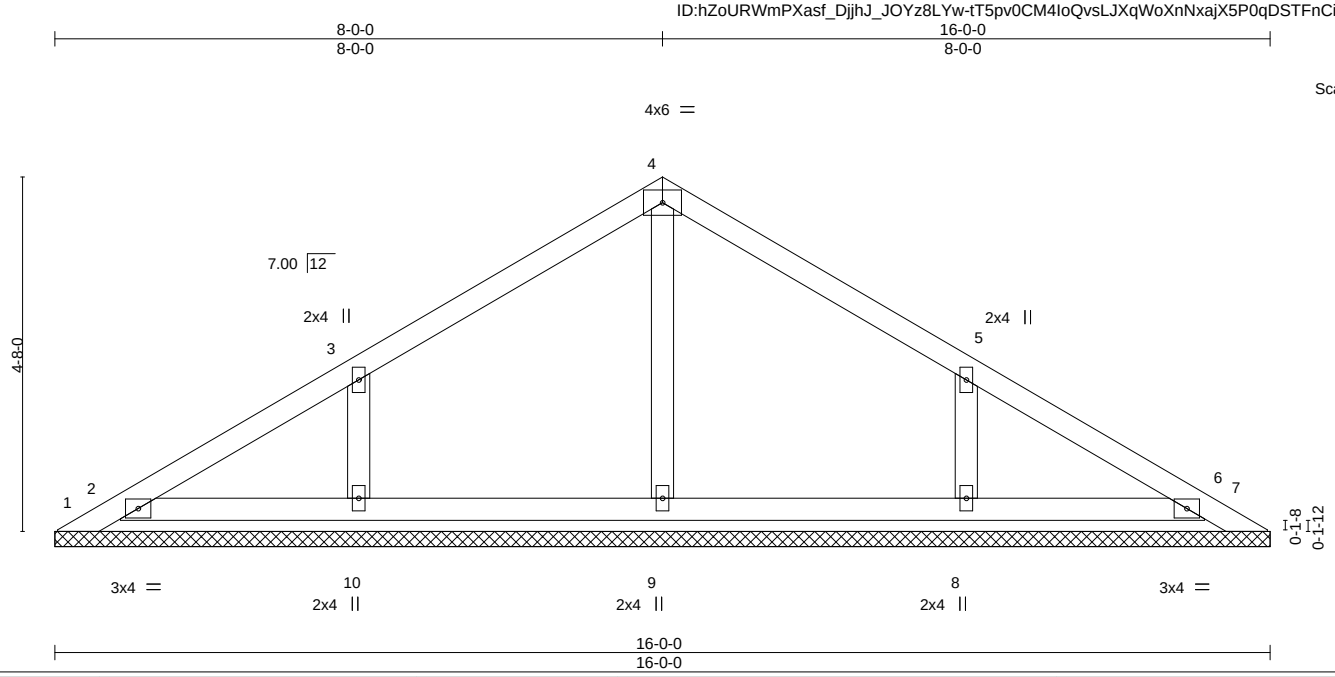


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 59 lb	FT = 20%

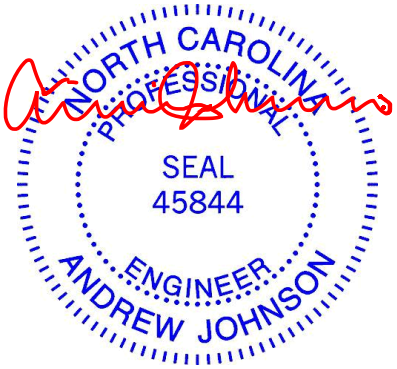
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

REACTIONS. All bearings 16-0-0.
(lb) - Max Horz 1=-150(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 7, 2, 6 except 1=-100(LC 10), 10=-192(LC 12), 8=-191(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 7, 2, 6 except 9=271(LC 1), 10=358(LC 19), 8=357(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-10=-301/236, 5-8=-301/235

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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 4-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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 100 lb uplift at joint(s) 7, 2, 6 except (jt=lb) 1=100, 10=192, 8=191.
9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



November 25,2020

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	PB09	GABLE	1	1	I43774363
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:34:36 2020 Page 1
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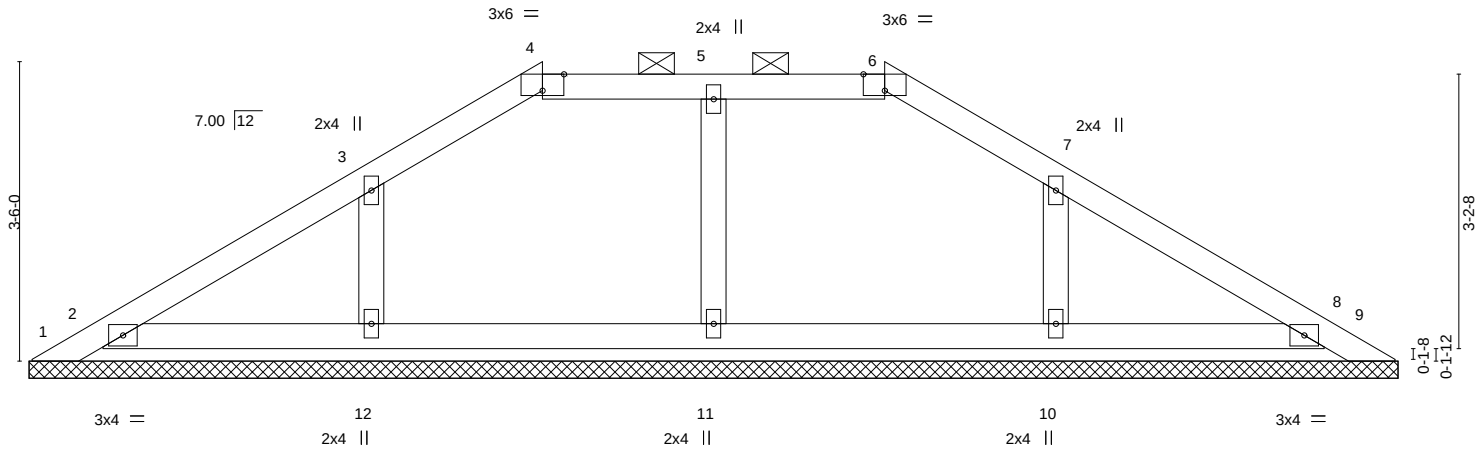
6-0-0 10-0-0 16-0-0
6-0-0 4-0-0 6-0-0

Scale = 1:26.9



16-0-0
16-0-0

Plate Offsets (X,Y)-- [4:0-3-0,Edge], [6:0-3-0,Edge]

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	0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 57 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 16-0-0.
(lb) - Max Horz 1=-108(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 9, 11 except 1=-103(LC 19), 2=-131(LC 12), 8=-103(LC 13), 12=-128(LC 12), 10=-125(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 9 except 2=292(LC 19), 8=286(LC 1), 11=260(LC 1), 12=293(LC 19), 10=289(LC 20)

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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 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) 9, 11 except (jt=lb) 1=103, 2=131, 8=103, 12=128, 10=125.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

November 25,2020

ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	PB10	GABLE	1	1	I43774364
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:34:38 2020 Page 1
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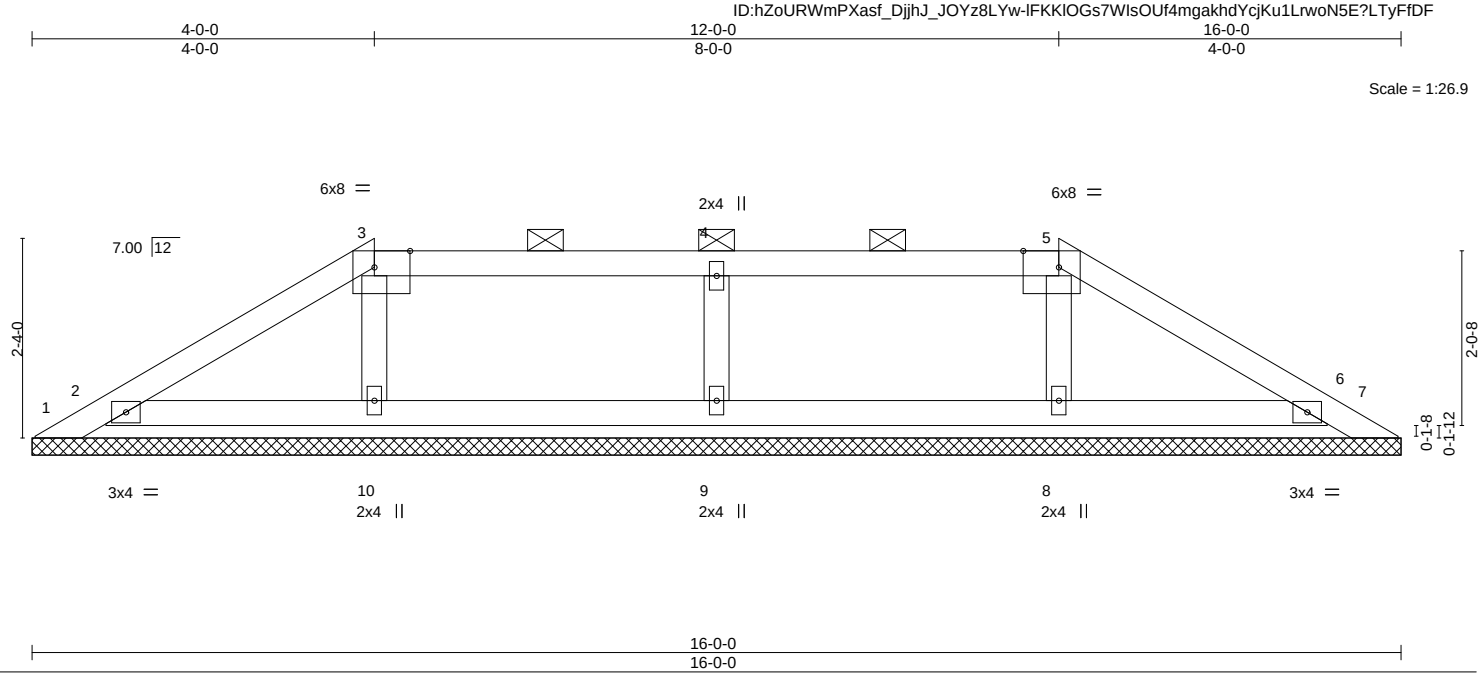

Plate Offsets (X,Y)-- [3:0-5-0,Edge], [5:0-5-0,Edge]

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	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 53 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 16-0-0.
(lb) - Max Horz 1=70(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 7, 10, 8 except 1=-115(LC 19), 2=-161(LC 12), 6=-150(LC 13), 9=-141(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 2=290(LC 19), 6=277(LC 20), 9=360(LC 23), 10=263(LC 1), 8=263(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-9=-278/212

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 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) 7, 10, 8 except (jt=lb) 1=115, 2=161, 6=150, 9=141.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

November 25,2020

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	PB11	GABLE	1	1	I43774365
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:34:39 2020 Page 1
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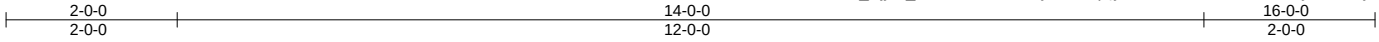

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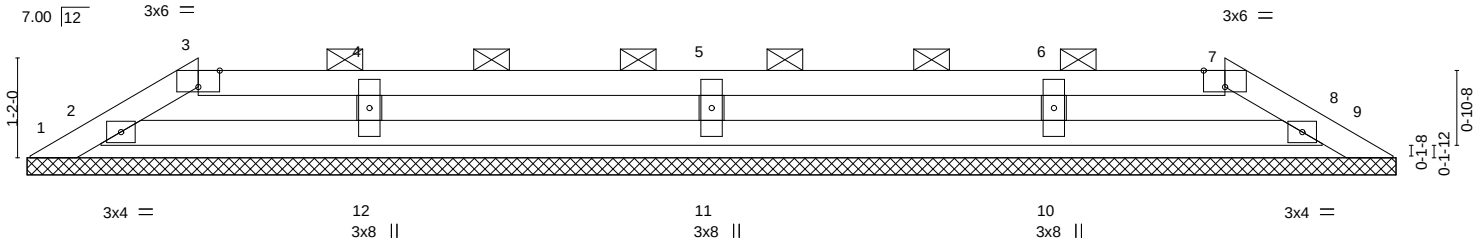

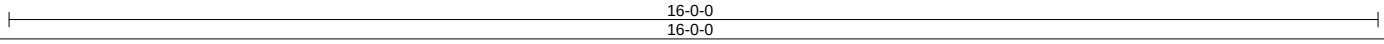

Plate Offsets (X,Y)-- [3:0-3-0,Edge], [7:0-3-0,Edge]

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	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.01	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 47 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 16-0-0.
(lb) - Max Horz 1=-31(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 2, 12 except 11=-122(LC 9), 10=-103(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 1, 9, 2 except 11=328(LC 23), 12=289(LC 23), 10=330(LC 24)

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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 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) 1, 9, 2, 12 except (jt=lb) 11=122, 10=103.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

November 25,2020

ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	V01	Valley	1	1	I43774366
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:34:40 2020 Page 1
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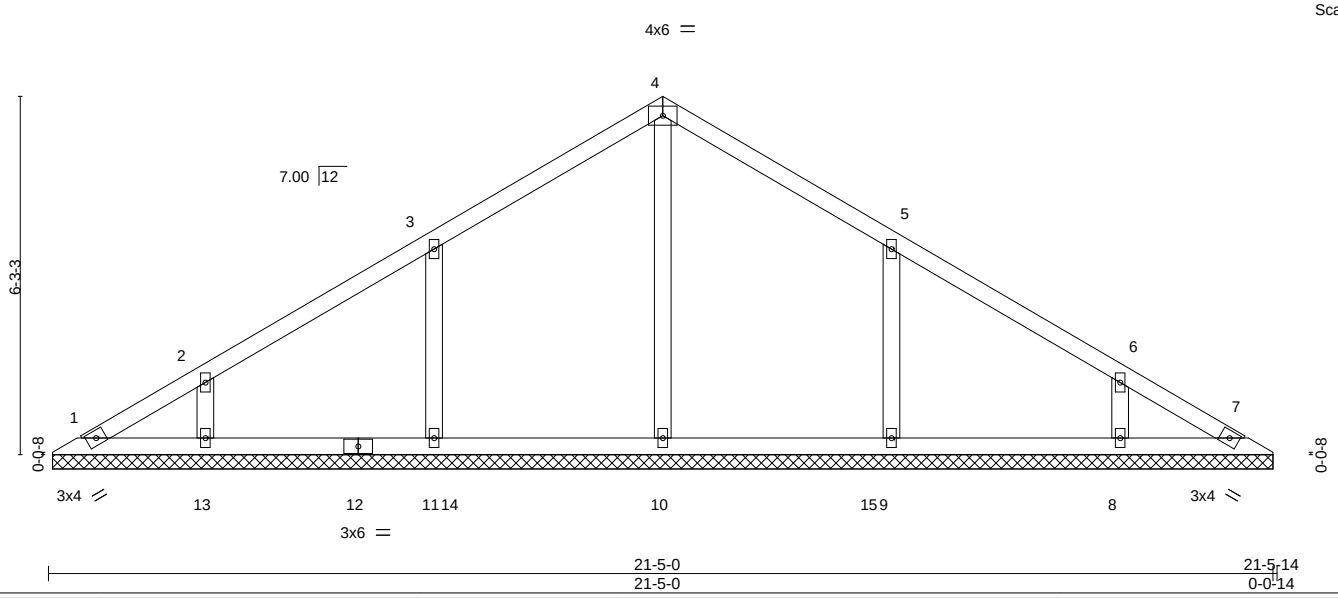
10-8-15 / 10-8-15 | 21-5-14 / 10-8-15

Scale = 1:40.3



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	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 88 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

REACTIONS. All bearings 21-4-2.
(lb) - Max Horz 1=199(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 11=-206(LC 12), 13=-156(LC 12), 9=-206(LC 13), 8=-156(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=394(LC 19), 11=436(LC 19), 13=294(LC 19), 9=436(LC 20), 8=294(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-11=-326/256, 2-13=-254/196, 5-9=-326/256, 6-8=-254/196

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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 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 except (jt=lb) 11=206, 13=156, 9=206, 8=156.

November 25,2020

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	V02	Valley	1	1	I43774367
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:34:42 2020 Page 1
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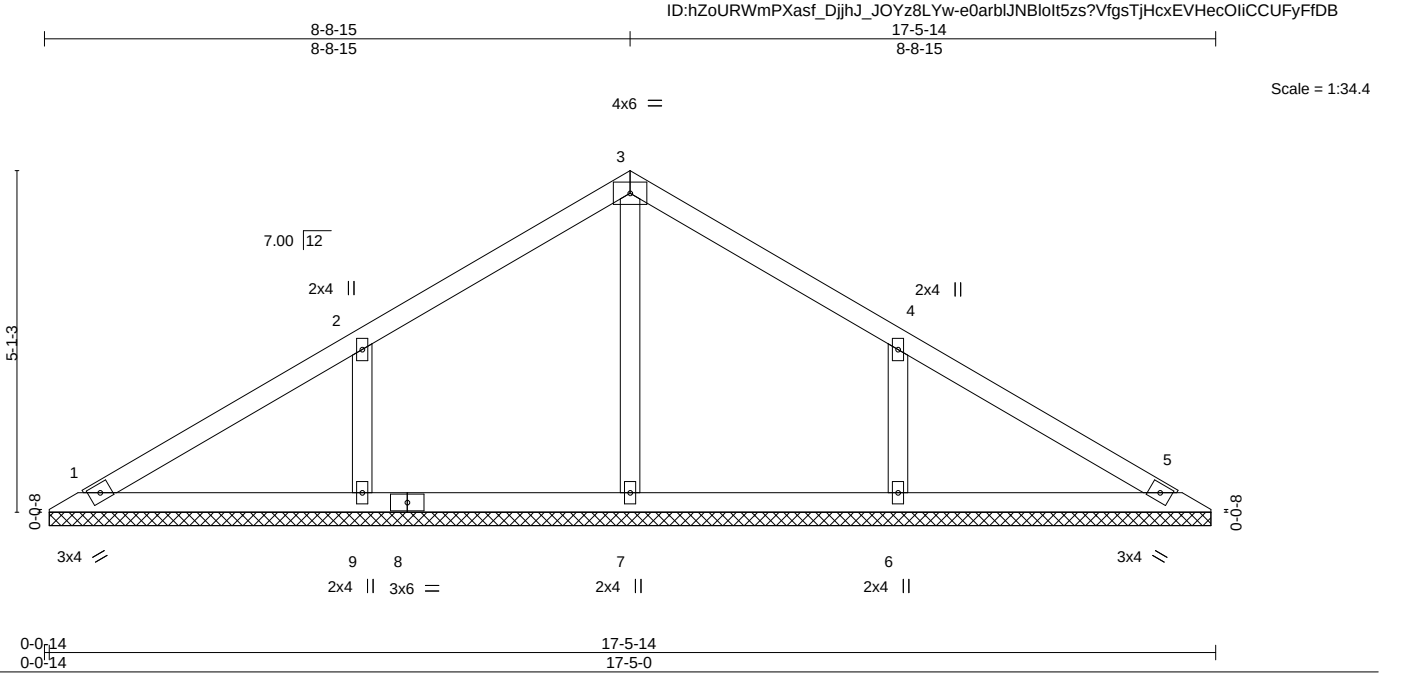

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 67 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

REACTIONS. All bearings 17-4-2.
(lb) - Max Horz 1=-160(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 9=-230(LC 12), 6=-230(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 9=435(LC 19), 6=434(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-9=-356/276, 4-6=-356/275

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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, 5 except (jt=lb) 9=230, 6=230.

November 25,2020

ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	V03	Valley	1	1	I43774368
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:34:43 2020 Page 1
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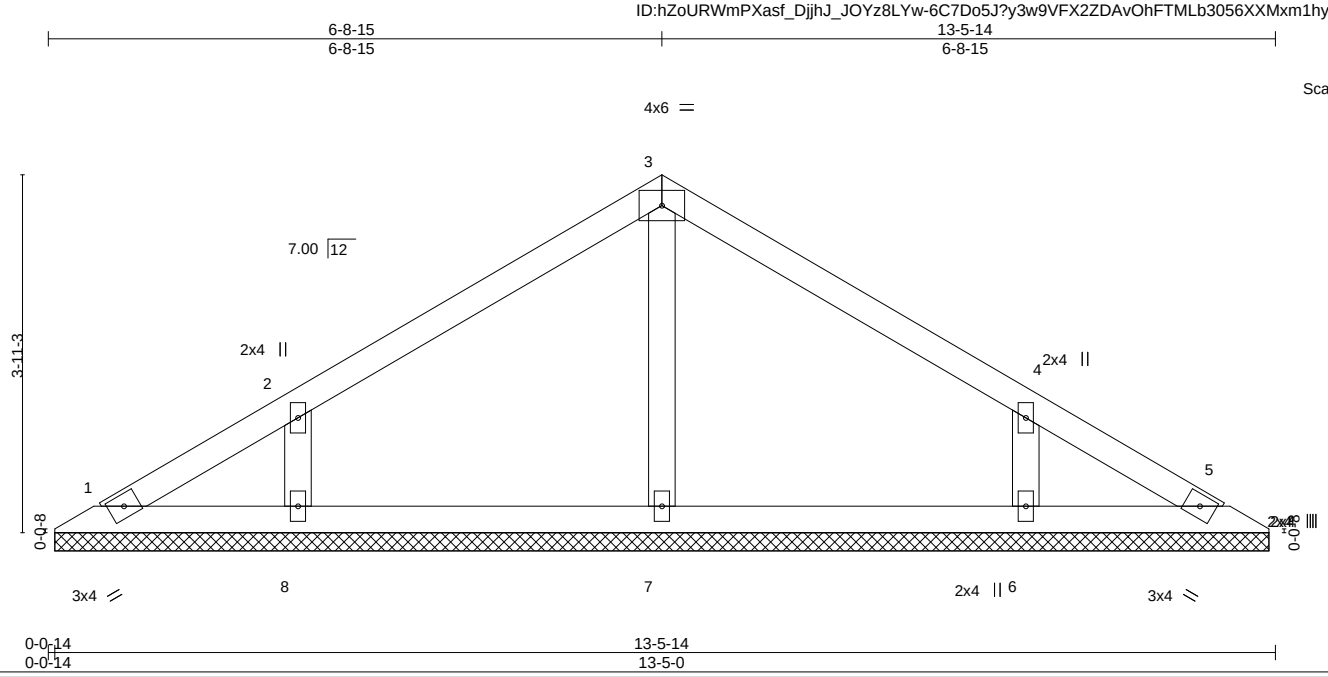


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 49 lb	FT = 20%

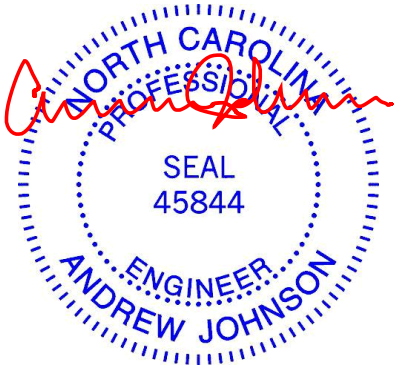
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

REACTIONS. All bearings 13-4-2.
(lb) - Max Horz 1=-121(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-183(LC 12), 6=-183(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=276(LC 1), 8=335(LC 19), 6=335(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-287/225, 4-6=-287/224

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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, 5 except (jt=lb) 8=183, 6=183.



November 25,2020

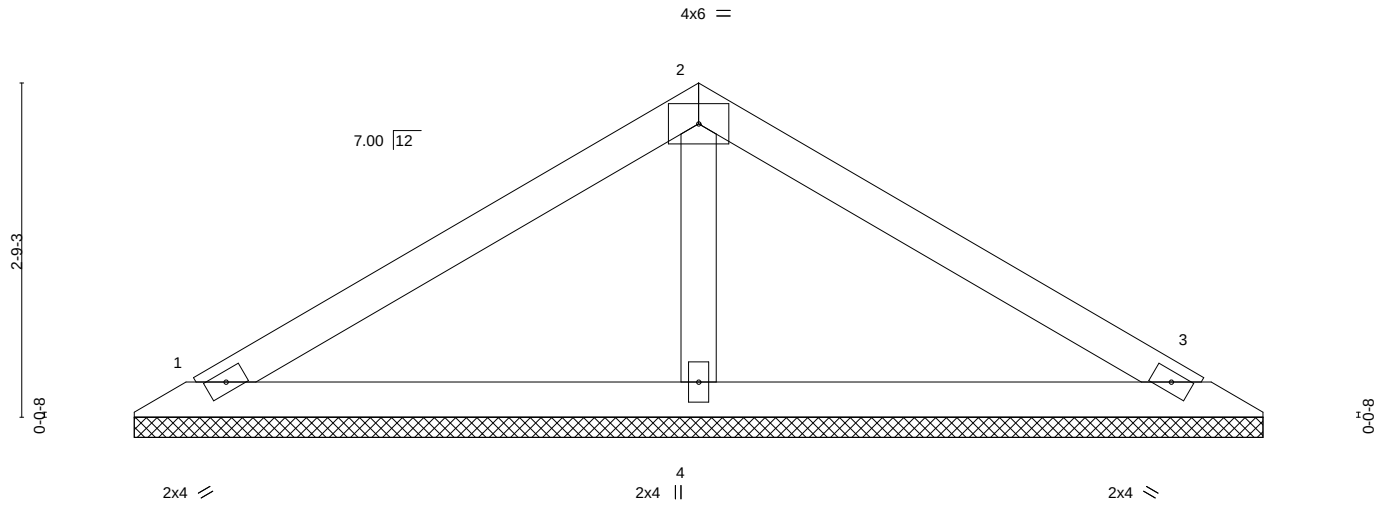
ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	V04	Valley	1	1	I43774369
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:34:46 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-WnpMQ7MtF_JjMjGdELkc0JtzXYcyDT6_DKAQd0yFfD7

4-8-15 9-5-14
4-8-15 4-8-15

Scale = 1:19.1



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	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 31 lb	FT = 20%

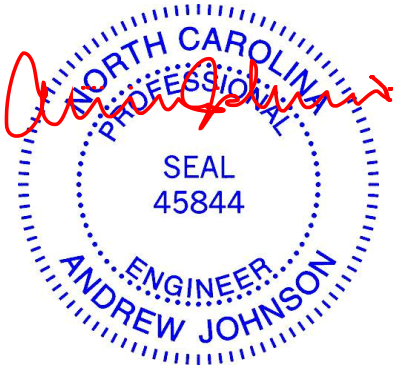
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

REACTIONS. (size) 1=9-4-2, 3=9-4-2, 4=9-4-2
Max Horz 1=-82(LC 10)
Max Uplift 1=-57(LC 12), 3=-68(LC 13), 4=-57(LC 12)
Max Grav 1=158(LC 1), 3=164(LC 20), 4=350(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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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, 4.



November 25,2020

ENGINEERING BY TRENCO A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	V05	Valley	1	1	I43774370
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:34:47 2020 Page 1
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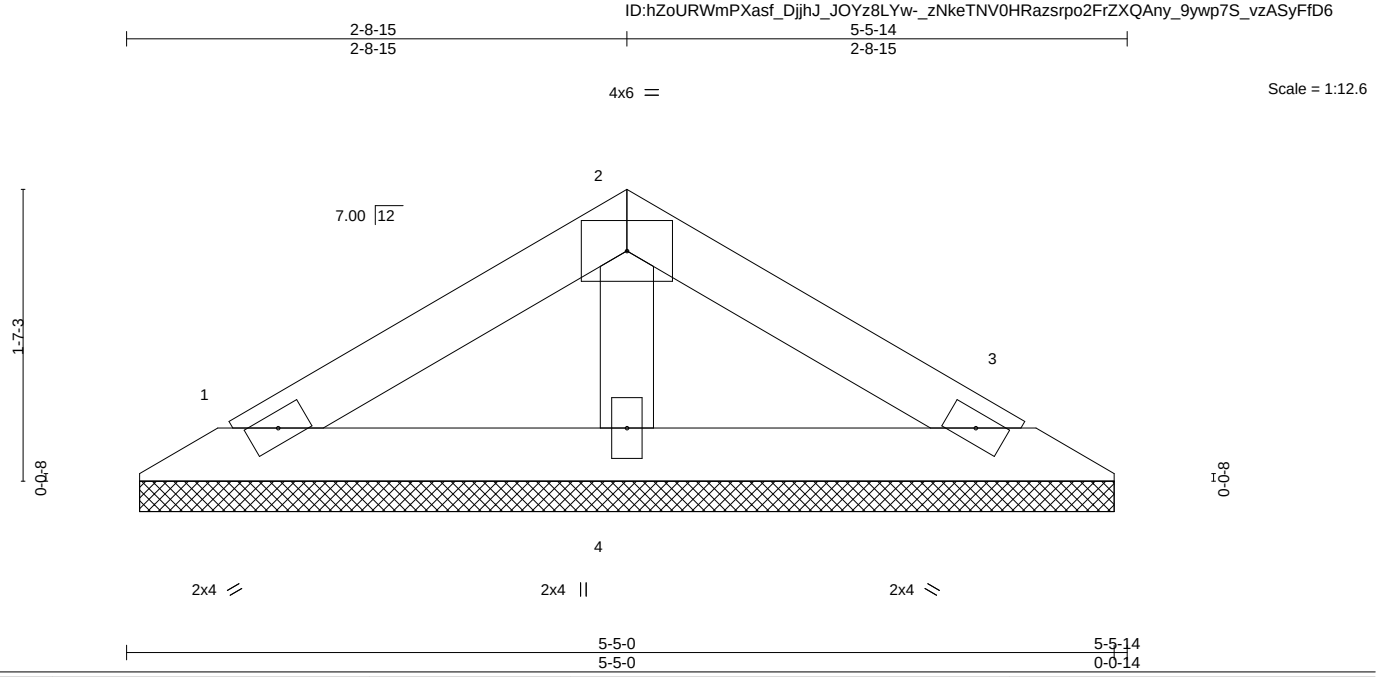


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 17 lb	FT = 20%

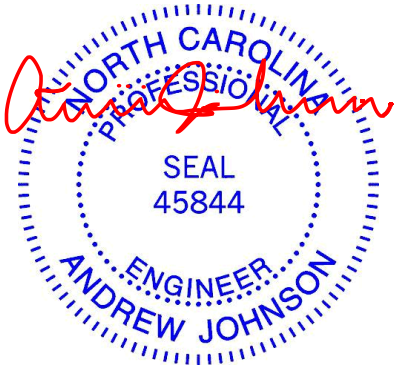
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-5-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=5-4-2, 3=5-4-2, 4=5-4-2
Max Horz 1=-43(LC 10)
Max Uplift 1=-36(LC 12), 3=-42(LC 13), 4=-16(LC 12)
Max Grav 1=91(LC 1), 3=92(LC 20), 4=164(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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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, 4.



November 25,2020

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	V06	Valley	1	1	I43774371
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:34:48 2020 Page 1
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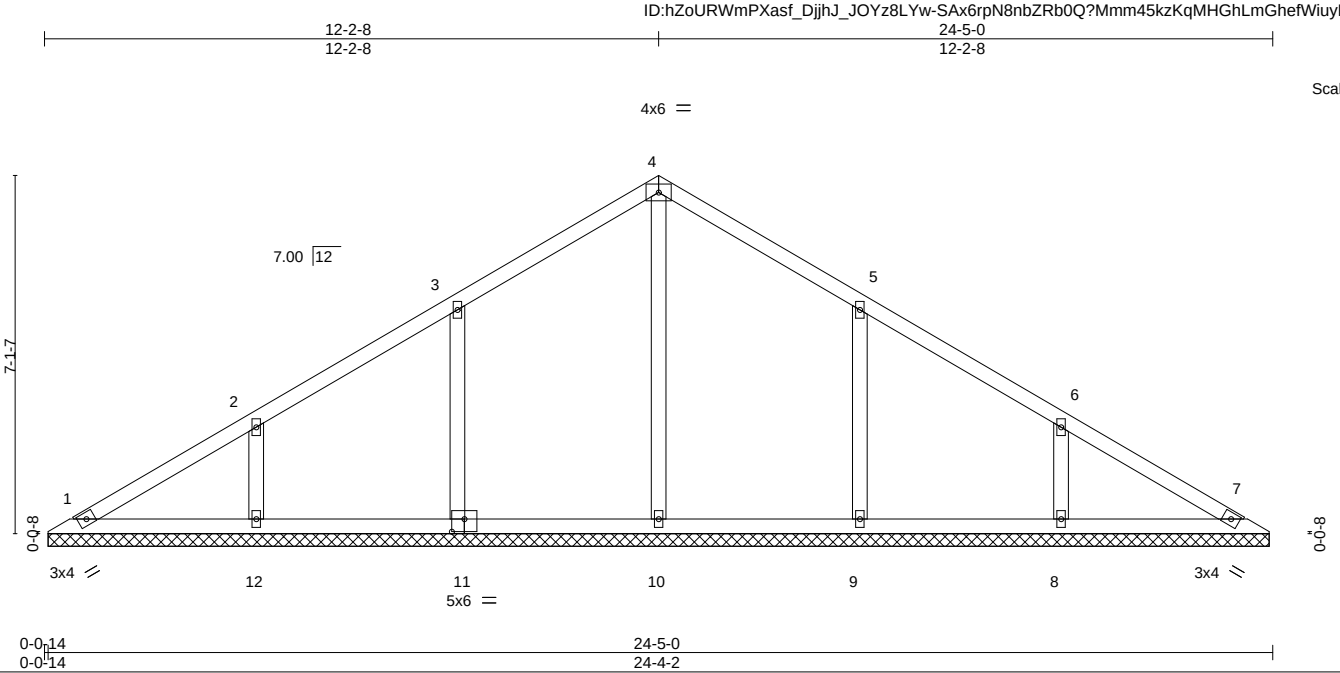


Plate Offsets (X,Y)-- [11:0-3-0,0-3-0]

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	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 104 lb	FT = 20%

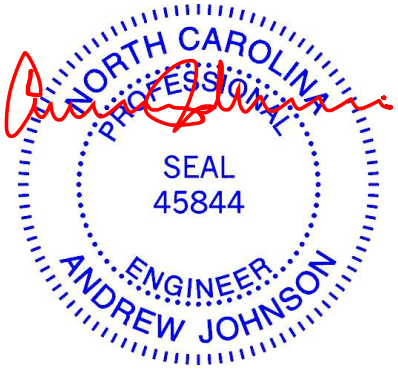
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

REACTIONS. All bearings 24-3-5.
(lb) - Max Horz 1=-227(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 11=-194(LC 12), 12=-192(LC 12), 9=-197(LC 13), 8=-193(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=403(LC 19), 11=421(LC 19), 12=371(LC 19), 9=430(LC 20), 8=367(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-11=-308/243, 2-12=-308/236, 5-9=-313/247, 6-8=-308/235

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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 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 except (jt=lb) 11=194, 12=192, 9=197, 8=193.



November 25,2020

ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	V07	Valley	1	1	I43774372
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:34:49 2020 Page 1
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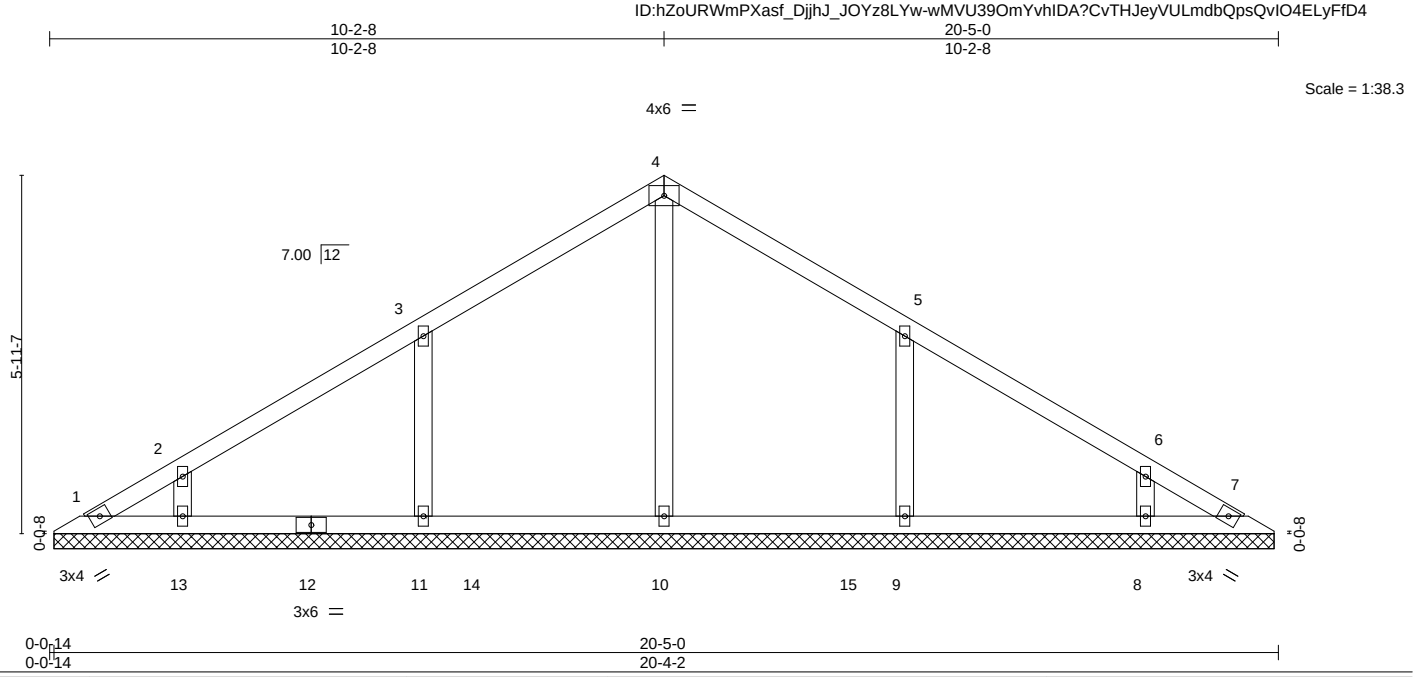


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 83 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

REACTIONS. All bearings 20-3-5.
(lb) - Max Horz 1=-188(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 11=-207(LC 12), 13=-149(LC 12), 9=-207(LC 13), 8=-149(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=387(LC 19), 11=423(LC 19), 13=281(LC 19), 9=423(LC 20), 8=281(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-11=-327/257, 5-9=-327/257

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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 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 except (jt=lb) 11=207, 13=149, 9=207, 8=149.

November 25,2020

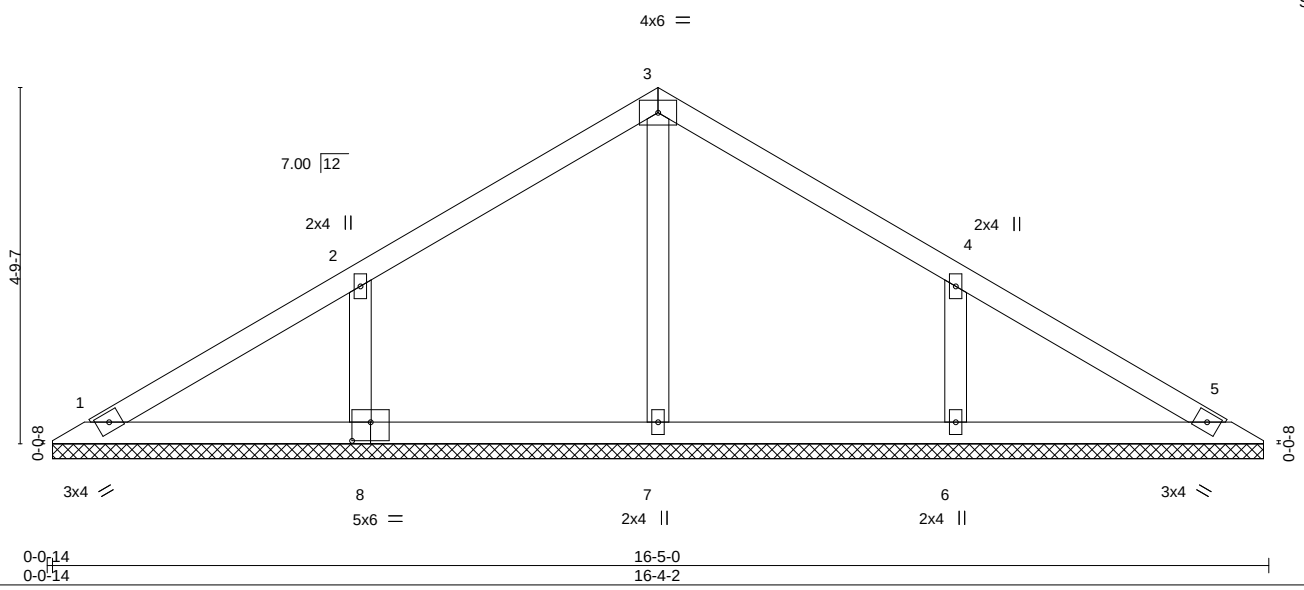
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	V08	Valley	1	1	I43774373
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:34:50 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-PY2sGUPOJCp9qKaOTBoYB92f29_j9GhZ8y8dmnyFfD3

8-2-8 16-5-0
8-2-8 8-2-8

Scale = 1:31.0



0-0-14 16-5-0
0-0-14 16-4-2

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

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	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 62 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

REACTIONS. All bearings 16-3-5.
(lb) - Max Horz 1=-149(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-205(LC 12), 6=-214(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=257(LC 1), 8=391(LC 19), 6=402(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-321/249, 4-6=-332/257

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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, 5 except (jt=lb) 8=205, 6=214.

November 25,2020

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	V09	Valley	1	1	I43774374
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:34:51 2020 Page 1
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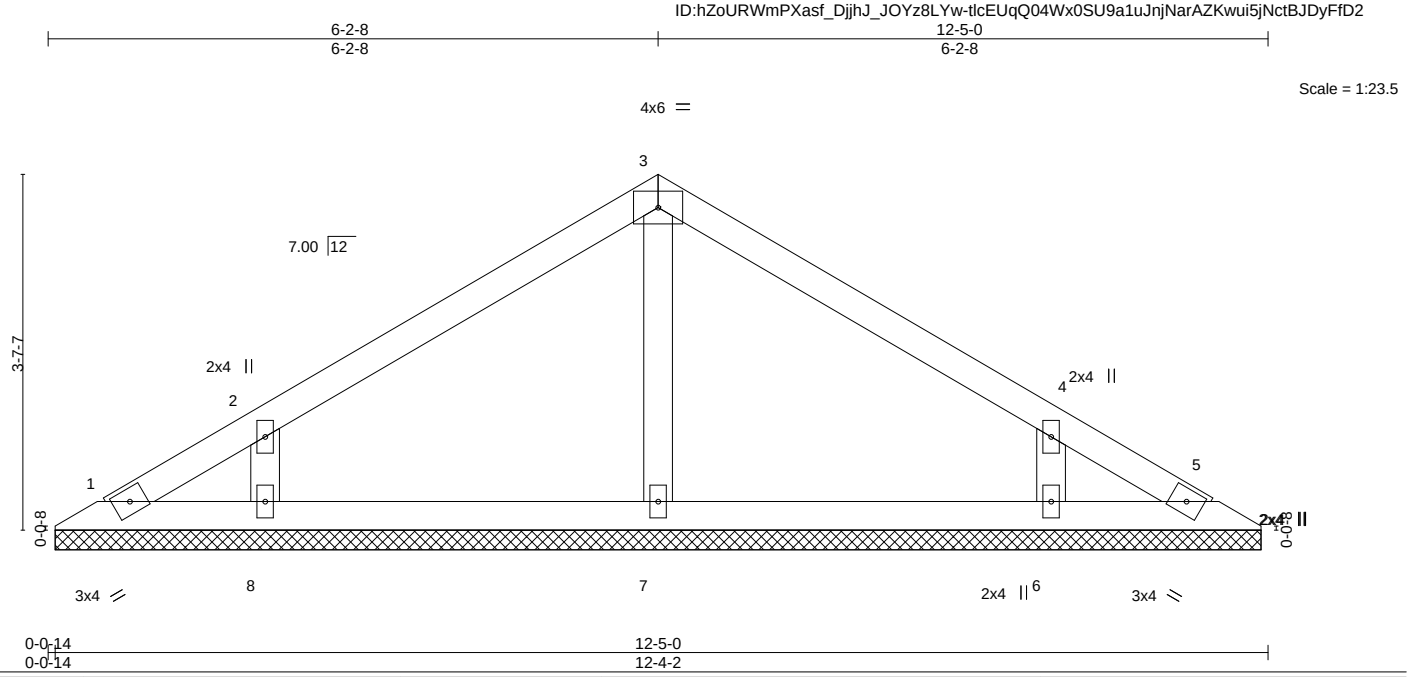


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 44 lb	FT = 20%

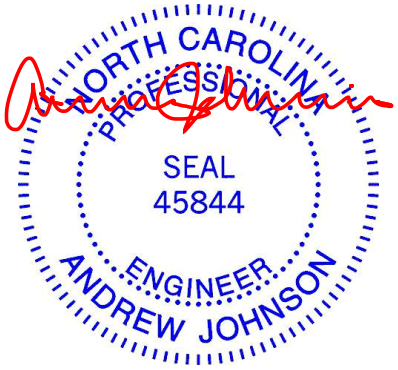
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

REACTIONS. All bearings 12-3-5.
(lb) - Max Horz 1=-110(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 7 except 8=-181(LC 12), 6=-180(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=277(LC 1), 8=327(LC 19), 6=326(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-285/225, 4-6=-285/224

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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, 5, 7 except (jt=lb) 8=181, 6=180.



November 25,2020

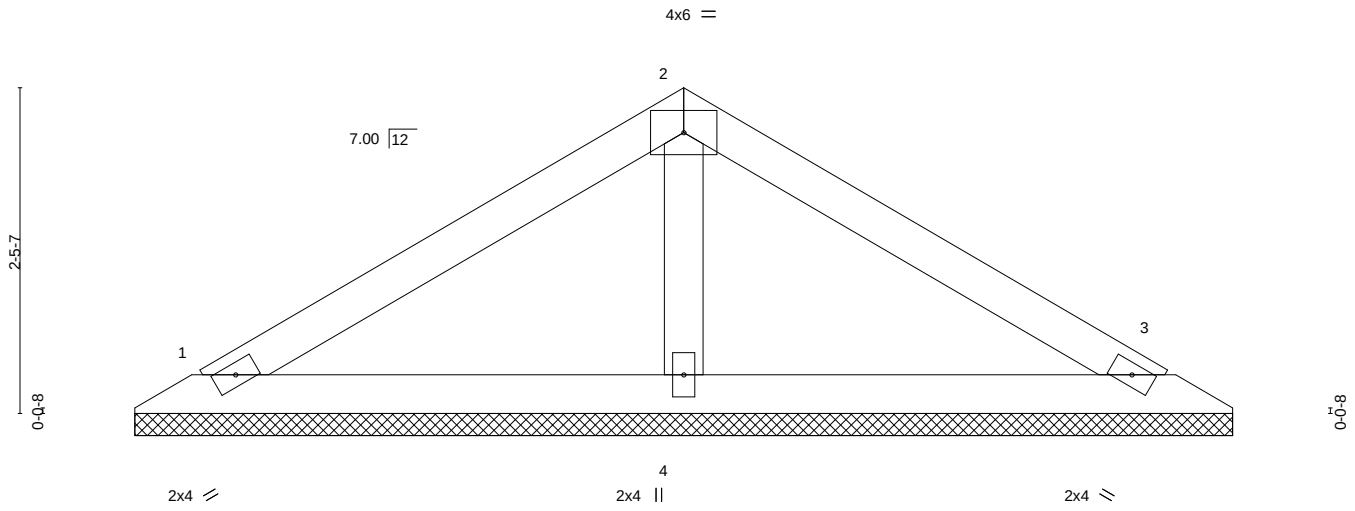
ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	V10	Valley	1	1	I43774375
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:34:52 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-LxAdhAQeqq3t4ejnbcq0Ga70_zf0dAjsbGdkrfyFfD1

4-2-8 8-5-0
4-2-8 4-2-8

Scale = 1:17.4



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	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 28 lb	FT = 20%

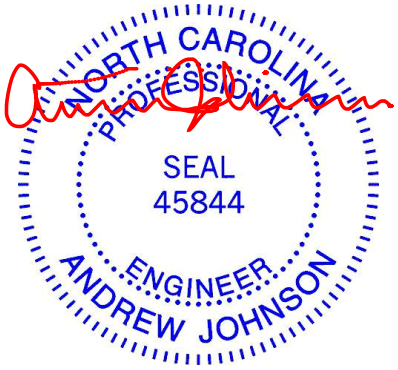
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

REACTIONS. (size) 1=8-3-5, 3=8-3-5, 4=8-3-5
Max Horz 1=71(LC 11)
Max Uplift 1=-50(LC 12), 3=-59(LC 13), 4=-50(LC 12)
Max Grav 1=138(LC 1), 3=143(LC 20), 4=305(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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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, 4.



November 25,2020

ENGINEERING BY TRENCO A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	V11	Valley	1	1	I43774376
					Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Nov 25 11:34:53 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-p7k?uWRGb7BkhnIz8JMFoogDoN?IMdd0qwMHN6yFfD0

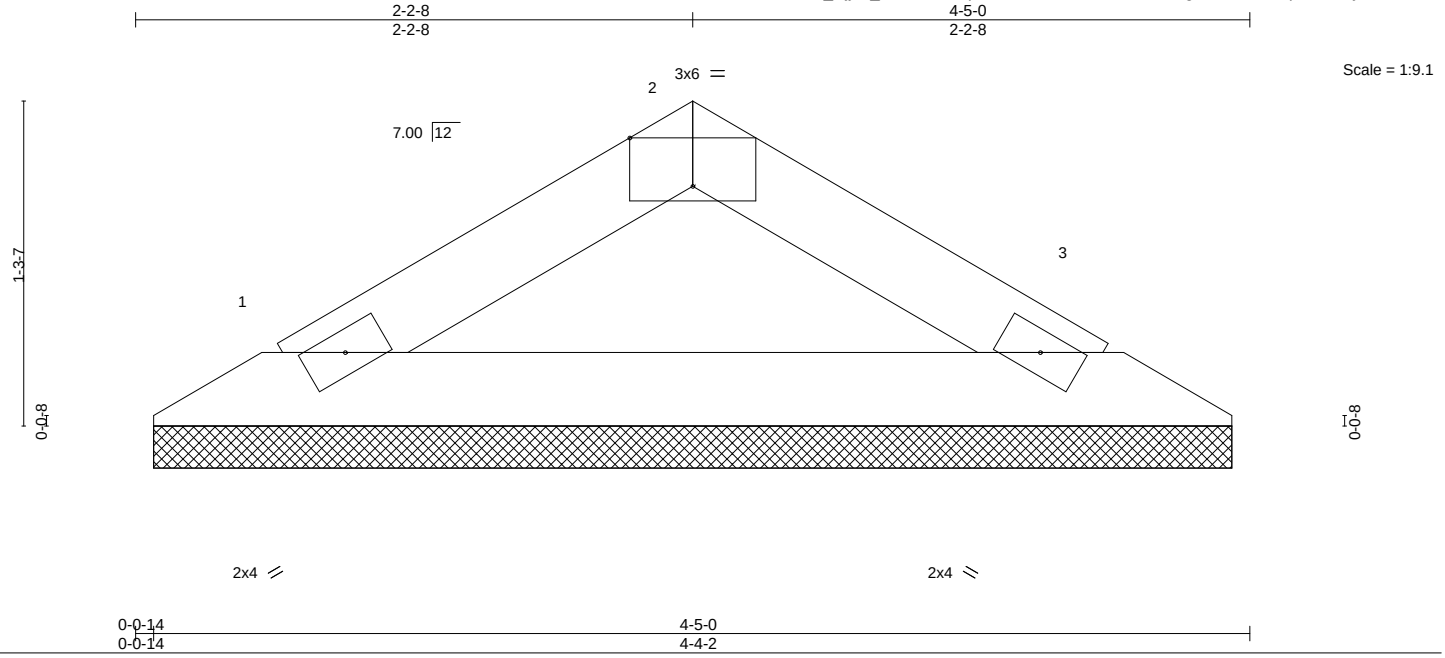


Plate Offsets (X,Y)-- [2:0-3-0,Edge]

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	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P							Weight: 12 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-5-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=4-3-5, 3=4-3-5
Max Horz 1=-32(LC 10)
Max Uplift 1=-33(LC 12), 3=-33(LC 13)
Max Grav 1=130(LC 1), 3=130(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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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.

November 25,2020

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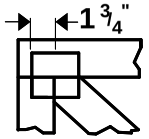
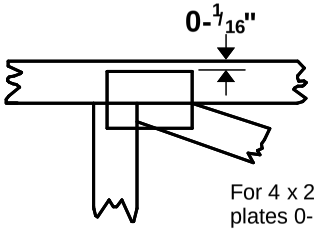
Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

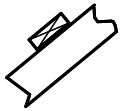
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

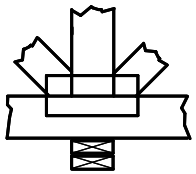
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING

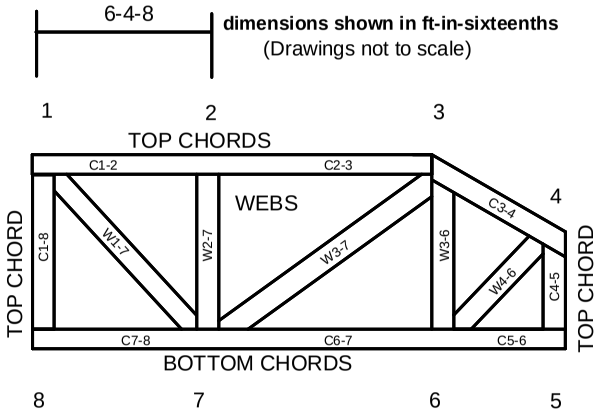


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

MiTek®

ENGINEERING BY TRENCO
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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.