

RE: 21070089-01 215 Crossing at ACC-Kessler B-Roof Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: Capitol City Homes	Project Name: 21070089-01
Lot/Block: 215	Model:
Address: 42 Kensington Drive	Subdivision: Crossings at Anderson Creek
City: Spring Lake	State: NC

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

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

Design Program: MiTek 20/20 8.4 Wind Speed: 130 mph Floor Load: N/A psf

This package includes 15 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	145380350	CJ1	7/14/2021
2	145380351	J1	7/14/2021
3	145380352	J2GR	7/14/2021
4	145380353	J2GRA	7/14/2021
5	145380354	J3	7/14/2021
6	145380355	PB1	7/14/2021
7	145380356	T1	7/14/2021
8	145380357	T1A	7/14/2021
9	145380358	T1GR	7/14/2021
10	145380359	T1GRA	7/14/2021
11	145380360	T4GE	7/14/2021
12	l45380361	T5	7/14/2021
13	145380362	T5A	7/14/2021
14	I45380363	T5GE	7/14/2021
15	I45380364	T5SE	7/14/2021

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

Truss Engineering Co. under my direct supervision

based on the parameters provided by Carter Components (Sanford, NC)).

Truss Design Engineer's Name: Johnson, Andrew

My license renewal date for the state of North Carolina is December 31, 2021

North Carolina COA: C-0844

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



Johnson, Andrew

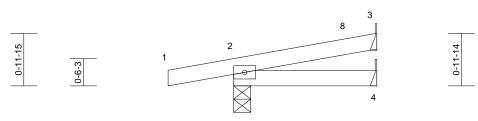
Job	Truss	Truss Type	Qty	Ply	215 Crossing at ACC-Kessler B-Roof	
21070089-01	CJ1	Jack-Open	2	1	Job Reference (optional)	145380350

Run: 8.43 S Mar 4 2021 Print: 8.430 S Mar 4 2021 MiTek Industries. Inc. Fri Mar 26 11:24:30 ID:hvcBhN021MZMzDW2EtV1bpzbl2v-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





2-8-7



3x5 =

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Scale = 1.21.7												
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 13.9/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2015/TPI2014	CSI TC BC WB Matrix-MP	0.13 0.04 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.00 0.00 0.00	(loc) 4-7 4-7 3	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 Sheathed or 2-8-7 of Rigid ceiling directly bracing. (size) 2=0-3-14 Mechanio Max Horiz 2=21 (LC Max Uplift 2=-44 (LC	/ applied or 10-0-0 or , 3= Mechanical, 4= cal : 11) C 11), 3=-14 (LC 15)	c on the bot 3-06-00 ta chord and 6) Refer to g Provide m bearing pl 3 and 44 I LOAD CASE(s has been design tom chord in all are Il by 2-00-00 wide any other member irder(s) for truss to echanical connecti ate capable of with b uplift at joint 2. S) Standard	eas where will fit bety rs. truss coni on (by oth	a rectangle ween the botto nections. wers) of truss t	om to				Weight: 10 lb	FT = 20%
FORCES TOP CHORD BOT CHORD	Max Grav 2=197 (L (LC 2) (Ib) - Maximum Con Tension 1-2=0/16, 2-8=-77/9 2-4=-64/27	npression/Maximum	=21									
Vasd=103r Cat. II; Exp Exterior (2) vertical left forces & M DOL=1.60 2) TCLL: ASC DOL=1.15 snow); Pf= Plate DOL=	E 7-10; Vult=130mph ph; TCDL=6.0psf; B b B; Enclosed; MWFR) zone; cantilever left and right exposed;C WFRS for reactions s plate grip DOL=1.33 CE 7-10; Pr=20.0 psf Plate DOL=1.15); Pg 13.9 psf (flat roof sno =1.15); Category II; E	CDL=6.0psf; h=25ft; S (envelope) and C- and right exposed ; o -C for members and shown; Lumber (roof live load: Lumb =20.0 psf (ground w: Lumber DOL=1.1	C end er						C	Zo	OR THE CA	ROLIN
design.4) This truss I load of 12.0	d snow loads have be has been designed fo 0 psf or 2.00 times fla non-concurrent with	or greater of min roof at roof load of 13.9 ps	live						11 WE	R. H.	TEW J	44 EER.O

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

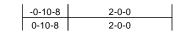


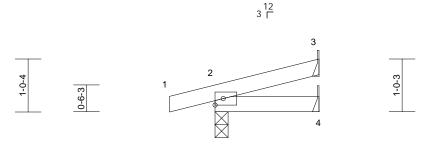
March 27,2021

Job	Truss	Truss Type	Qty	Ply	215 Crossing at ACC-Kessler B-Roof	
21070089-01	J1	Jack-Open	2	1	Job Reference (optional)	145380351

Run: 8.43 S Mar 4 2021 Print: 8.430 S Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 11:24:33 ID:hvcBhN021MZMzDW2EtV1bpzbl2v-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





3x5 =

2-0-0

Scale = 1:22.2

Scale = 1:22.2											
Loading (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 13.9/20.0 TCDL 10.0 BCLL 0.0* BCDL 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2015/TPI2014	CSI TC BC WB Matrix-MP	0.07 0.03 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.00 0.00 0.00	(loc) 4-7 4-7 3	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 7 lb	GRIP 244/190 FT = 20%
REACTIONS (size) 2=0-3-0, Mechani Max Horiz 2=22 (LC Max Uplift 2=-29 (LI Max Grav 2=144 (L	y applied or 10-0-0 or 3= Mechanical, 4= cal C 11) C 11), 3=-11 (LC 15)	c on the bo 3-06-00 ta chord and 7) Refer to g 8) Provide m bearing p 2 and 11 LOAD CASE	s has been designe tom chord in all area ill by 2-00-00 wide w any other members irder(s) for truss to t echanical connectic ate capable of withs b uplift at joint 3. S) Standard	as where vill fit betw s. russ conr n (by oth	a rectangle veen the botto nections. ers) of truss t	om to					
(LC 2) FORCES (Ib) - Maximum Cor	mpression/Maximum										
Tension TOP CHORD 1-2=0/16, 2-3=-45/4 BOT CHORD 2-4=-26/19 NOTES 1) Wind: ASCE 7-10; Vult=130mpl Vasd=103mph; TCDL=6.0psf; E Cat. II; Exp B; Enclosed; MWFF Exterior (2) zone; cantilever left vertical left and right exposed; forces & MWFRS for reactions : DOL=1.60 plate grip DOL=1.33 2) TCLL: ASCE 7-10; Pr=20.0 psf DOL=1.50 plate grip DOL=1.33; 2) TCLL: ASCE 7-10; Pr=20.0 psf DOL=1.15 Plate DOL=1.15); Pcg snow); Pf=13.9 psf (flat roof sno Plate DOL=1.15); Category II; E Ct=1.10 3) Unbalanced snow loads have b design. 4) This truss has been designed ff load of 12.0 psf or 2.00 times file overhangs non-concurrent with 5) This truss is not designed to su	h (3-second gust) 3CDL=6.0psf; h=25ft; 8S (envelope) and C- and right exposed; e -C for members and shown; Lumber (roof live load: Lumby g=20.0 psf (ground w: Lumber DOL=1.1 Exp B; Fully Exp.; een considered for th or greater of min roof at roof load of 13.9 ps other live loads.	-C end 5 5 live sf on						Continue	ti	SEA 458	

11111 March 27,2021

818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	215 Crossing at ACC-Kessler B-Roof	
21070089-01	J2GR	Half Hip Girder	1	1	Job Reference (optional)	145380352

-0-10-8

0-10-8

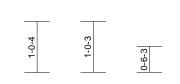
Carter Components (Sanford), Sanford, NC - 27332,

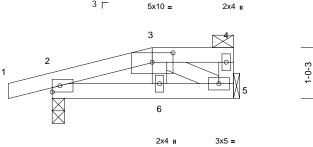
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3-7-8

1-7-8

Page: 1





3x5 =

2-0-0

2-0-0

12 3 □



Scale = 1:23

Plate Offsets (X, Y): [3:0-5-0.0-2-4]

		1											
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 18.9/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2015	5/TPI2014	CSI TC BC WB Matrix-MP	0.07 0.06 0.03	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.00 0.00 0.00	(loc) 6 6 5	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 15 lb	GRIP 244/190 FT = 20%
FORCES TOP CHORD BOT CHORD WEBS NOTES 1) Wind: ASC Vasd=103r Cat. II; Exp left and rigt exposed; L 2) TCLL: ASC DOL=1.15 snow); Pf= Plate DOL= Ct=1.10, Lt 3) Unbalanced design. 4) This truss h load of 12.0 overhangs	Max Horiz 2=23 (LC Max Uplift 2=-32 (LC Max Grav 2=224 (LC (Ib) - Maximum Com Tension 1-2=0/16, 2-3=-167/- 2-6=-19/148, 5-6=0/- 3-6=0/35, 3-5=-171/0 E 7-10; Vult=130mph mph; TCDL=6.0psf; B(B; Enclosed; MWFR: nt exposed; end vertit umber DOL=1.60 plat E 7-10; Pr=20.0 psf (Plate DOL=1.15); Pg= 18.9 psf (flat roof snos =1.15); Category II; Ex	be purlins: 3-4. applied or 10-0-0 oc 5= Mechanical 10) 7), 5=-3 (LC 7) 2 31), 5=-3 (LC 7) 2 31), 5=-138 (LC 30) pression/Maximum 40, 3-4=-8/6, 4-5=-54 153 0 (3-second gust) CDL=6.0psf; h=25ft; S (envelope); cantiler cal left and right te grip DOL=1.33 roof live load: Lumber =20.0 psf (ground w: Lumber DOL=1.15 cp B; Fully Exp.; een considered for thi r greater of min roof I troof load of 13.9 psf other live loads.	9) 10 11 11 11 11 11 1) ver 5 5 5 5 5	on the bottom 3-06-00 tall b chord and an Refer to girdd Provide mecl bearing plate 2 and 3 lb up Graphical pu or the orienta bottom chord) Hanger(s) or provided suff down and 13 down and 14 design/select responsibility) In the LOAD of the truss a DAD CASE(S) Dead + Snot Increase=1. Uniform Loz Vert: 1-3:	rlin representation tition of the purlin a other connection lo up at 2-0-0 on lb up at 2-0-0 on tion of such conne of others. CASE(S) section, re noted as front (Standard ww (balanced): Lur 15 ads (lb/ft) =-48, 3-4=-58, 5-7 ed Loads (lb)	s where ill fit betw russ conn n (by oth anding 3 n does m along the device(s concentra top cho bottom ection de loads a (F) or ba	a rectangle veen the botto nections. ers) of truss t 2 lb uplift at j 2 depict the s top and/or) shall be tated load(s) 3 rd, and 15 lb chord. The vice(s) is the oplied to the f ck (B).	om oo ooint size 7 Ib		C thinks	Ŀ	SEA 458 NORTH CA	Chip Vern

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	215 Crossing at ACC-Kessler B-Roof	
21070089-01	J2GRA	Half Hip Girder	1	1	Job Reference (optional)	145380353

-0-10-8

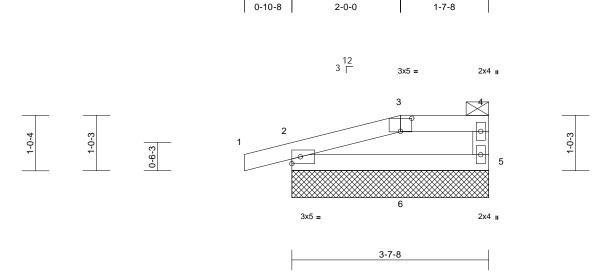
Carter Components (Sanford), Sanford, NC - 27332,

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3-7-8

2-0-0

Page: 1



Scale = 1:21.2

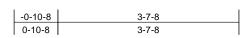
Plate Offsets (X, Y): [3:0-2-8,0-2-14]

Loading (eff) Parte Grap DOL Show (PPp) 18,92,00 Lumber DOL 1.15 BC 0.10 Vert(L) rva - rva 999 MT20 244P No.2 BCL 0.00 Code IRC2015/TPI2014 Matrix-R BCD 1.00 Code IRC2015/TPI2015/TPI2014 Matrix-R BCD 1.00 Code IRC2015/TPI2015/TPI2014 Matrix-R BCD 1.00									-
 LUMBER TOP CHORD 2x4 SP No.2 6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads. 7) Provide adequate drainage to prevent water ponding. 8) Gable requires continuous bottom chord bearing. 9) Gable studs spaced at 2-0-0 oc. 8) This truss has been designed for a live load of 20.0psf on the bottom chord in lareas where a rectangle 3-06-00 tall by 2-00-00 wide will fib between the bottom chord and any other members. 11) Provide adequate drainage to prevent water ponding. 8) Gable requires continuous bottom chord bearing. 9) Gable studs spaced at 2-0-0 oc. 9) Gable studs spaced at 2-0-0 oc. 9) Gable studs spaced at 2-0-0 co. 9) Gable studs spaced at 2-0-0 co. 10) "This truss has been designed for a live load of 20.0psf on the bottom chord and any other members. 11) Provide adequate drainage to prevent water ponding. 8) Gable context of the bottom chord and any other members. 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3 bu plift at joint 5 and 32 bu plift at joint 2. 12) Graphical pufin alog the top and/or bottom chord. 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 37 lb down and 14 lb up at 2-0-0 on to bottom. Chord. 14) Hou the Z-00 CASE(S) section, loads applied to the face of the truss are noted as fornt (F) or back (B). 14) Max Lorger 2. 14) Mores 14) Dead + Snow (balanced): Lumber Increase=1.15, Plate 	LL (roof) 20.0 Plate Grip DOL ow (Pf/Pg) 18.9/20.0 Lumber DOL DL 10.0 Rep Stress Incr LL 0.0* Code	1.15 1.15 NO	TC 0.19 BC 0.10 WB 0.00	Vert(LL) n/a Vert(CT) n/a	-	n/a n/a	999 999	MT20	244/190
BOT CHORD 2x4 SP No.2 overhangs non-concurrent with other live loads. WEBS 2x4 SP No.3 7) BRACING overhangs non-concurrent with other live loads. BTO CHORD Sheathed or 3-7-8 oc purlins, except end verticals, and 2-0-0 oc purlins; 3-4. 7) BOT CHORD Sheathed or 3-7-8, bc-3-7-8 6able requires continuous bottom chord in all areas where a rectangle 3-06-00 tall by 2-0-00.00 wide will fit between the bottom chord and any other members. BOT CHORD (size) 2-3-7-8, 5-3-7-8 1) Max Horiz 2-222 (LC 49) -0000 wide will fit between the bottom chord and any other members. Max Grav 2-224 (LC 31), 5=138 (LC 30) 1) Provide arechanical connection (by others) of truss to bearing plate capable of withstanding 3 lb uplift at joint 2. FORCES (lb) - Maximum Compression/Maximum Tension 1) Provide mechanical connection device(s) shall be provided sufficient to support concentrated load(s) 37 lb down and 13 lb up at 2-0-0 on top chord, and 15 lb down and 14 lb up at 2-0-0 on bottom chord. 13) Hanger(s) or other sonnection device(s) is the responsibility of others. 10) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right exposed; Lumber DOL=1.30 1) Dead + Show (balanced): Lumber Increase=1.15, Plate 1) <td>MBER</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Weight: 13 lb</td> <td>F1 = 20%</td>	MBER							Weight: 13 lb	F1 = 20%
 REACTIONS (size) 2=3-7-8, 5=3-7-8 Max Horiz 2=22 (LC 49) Max Uplift 2=-32 (LC 7), 5=-3 (LC 7) Max Grav 2=224 (LC 31), 5=-138 (LC 30) FORCES (b) - Maximum Compression/Maximum Tension FOP CHORD 1-2=0/0, 2-3=-134/13, 3-4=-99/14, 4-5=-92/21 30T CHORD 2-6=-11/99, 5-6=-11/99 VOTES I) Unbalanced roof live loads have been considered for this design. I) Unbalanced roof live loads have been considered for this design. I) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25f; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33 Chord and any other members. Chord mechanical connection (by others) of truss to bearing plate capable of withstanding 3 lb uplift at joint 2. I2) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. I3) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 37 lb down and 13 lb up at 2-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others. I4) In the LOAD CASE(S) Standard I) Dead + Snow (balanced): Lumber Increase=1.15, Plate 	DT CHORD 2x4 SP No.2 EBS 2x4 SP No.3 CHORD Sheathed or 3-7-8 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4. DT CHORD Rigid ceiling directly applied or 10-0-0 oc	overhangs n 7) Provide ade 8) Gable requir 9) Gable studs 10) * This truss l on the bottor	on-concurrent with other lin quate drainage to prevent res continuous bottom chor spaced at 2-0-0 oc. has been designed for a liv m chord in all areas where	ve loads. water ponding. d bearing. e load of 20.0psf a rectangle					
 FORCES (Ib) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/0, 2-3=-134/13, 3-4=-99/14, 4-5=-92/21 TOP CHORD 2-6=-11/99, 5-6=-11/99 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; b=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33 (b) - Maximum Compression/Maximum Tension (c) or the orientation of the purlin along the top and/or bottom chord. (c) or the orientation of the purlin along the top and/or bottom chord. (c) H CARO(a, and 15 lb down and 14 lb up at 2-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others. (c) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33 (c) DAD CASE(S) Standard (c) Dead + Snow (balanced): Lumber Increase=1.15, Plate 	ACTIONS (size) 2=3-7-8, 5=3-7-8 Max Horiz 2=22 (LC 49) Max Uplift 2=-32 (LC 7), 5=-3 (LC 7)	chord and an 11) Provide mec bearing plate and 32 lb up	ny other members. chanical connection (by oth e capable of withstanding 3 lift at joint 2.	ers) of truss to 8 lb uplift at joint 5					
 NOTES Unbalanced roof live loads have been considered for this design. Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33 Hown and 13 lb up at 2-0-0 on top chord, and 15 lb down and 14 lb up at 2-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others. 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 Dead + Snow (balanced): Lumber Increase=1.15, Plate 	RCES (Ib) - Maximum Compression/Maximum Tension	or the orient bottom chore	ation of the purlin along the d.	e top and/or					
	TES Unbalanced roof live loads have been considered for this design. Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantileve left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33 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 TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0 Unbalanced snow loads have been considered for this	provided suf down and 12 down and 14 design/selec responsibilit 14) In the LOAD of the truss a LOAD CASE(S) 1) Dead + Sm Increase=1 Uniform Lo Vert: 1-3 Concentrat	fficient to support concentra 3 lb up at 2-0-0 on top cho 4 lb up at 2-0-0 on bottom ction of such connection de y of others. 0 CASE(S) section, loads al are noted as front (F) or ba 1 Standard ow (balanced): Lumber Inc 1.15 sads (lb/ft) 3=-48, 3-4=-58, 2-5=-20 ted Loads (lb)	ated load(s) 37 lb rd, and 15 lb chord. The vice(s) is the pplied to the face ck (B).		Contraction	1to	roth	elinan.

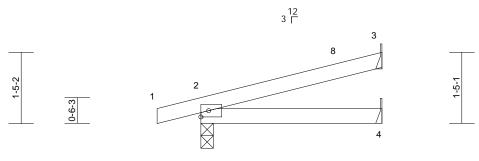


Job	Truss	Truss Type	Qty	Ply	215 Crossing at ACC-Kessler B-Roof	
21070089-01	J3	Jack-Open	2	1	Job Reference (optional)	145380354

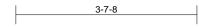
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3x5 =



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Scale = 1:23.1											
Loading TCLL (roof) Snow (Pf/Pg) 13.9 TCDL BCLL BCDL	(psf) 20.0 Plate Grip DOL 20.0 Lumber DOL 20.0 Rep Stress Incr 0.0* Code	2-0-0 1.15 1.15 YES IRC2015/TPI2014	CSI TC BC WB Matrix-MP	0.18 0.12 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.01 -0.01 0.00	(loc) 4-7 4-7 3	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 12 lb	GRIP 244/190 FT = 20%
BOT CHORD Rigid ceiling bracing. REACTIONS (size) 2: Max Horiz 2: Max Uplift 2: Max Grav 2:	2 r 3-7-8 oc purlins. g directly applied or 10-0-0 =0-3-0, 3= Mechanical, 4= lechanical	on the bot 3-06-00 ta chord and 6) Refer to g oc 7) Provide m bearing pl 3 and 28 l LOAD CASE(s has been designe tom chord in all area Il by 2-00-00 wide w any other members rder(s) for truss to t echanical connectio ate capable of withs o uplift at joint 2. S) Standard	as where vill fit betv s. russ conr n (by oth	a rectangle veen the bott nections. ers) of truss	om to					
Top CHORD 1-2=0/16, 2- BOT CHORD 2-4=-52/42 NOTES 1) Wind: ASCE 7-10; Vult= Vasd=103mph; TCDL=6 Cat. II; Exp B; Enclosed Exterior (2) zone; cantile vertical left and right exp forces & MWFRS for rea DOL=1.60 plate grip DO 2) TCLL: ASCE 7-10; Pr=2 DOL=1.15 Plate DOL=1	i.0psf; BCDL=6.0psf; h=25f ; MWFRS (envelope) and C ever left and right exposed C oosed;C-C for members and citions shown; Lumber iL=1.33 0.0 psf (roof live load: Lum .15); Pg=20.0 psf (ground roof snow: Lumber DOL=1. ory II; Exp B; Fully Exp.;	ft; C-C d ber 15						C) in	OR TEESS SEA 458	• •••

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

JUNION JUNIO March 27,2021

818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	215 Crossing at ACC-Kessler B-Roof	
21070089-01	PB1	Piggyback	1	1	Job Reference (optional)	145380355

-0-6-7

1-10-13

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

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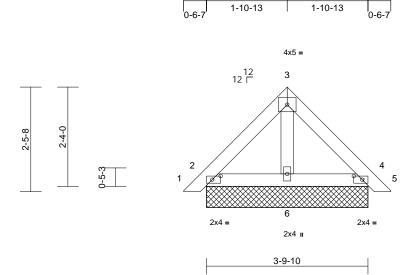
3-9-10

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818 Soundside Road Edenton, NC 27932



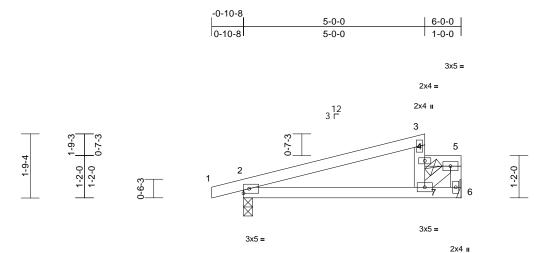
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TCLL (roof) Snow (Pf/Pg) TCDL BCLL	(psf) 20.0 13.9/20.0 10.0 0.0*	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	1-11-4 1.15 1.15 YES IRC201	5/TPI2014	CSI TC BC WB Matrix-P	0.07 0.03 0.01	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 244/190
FORCES TOP CHORD BOT CHORD WEBS NOTES 1) Unbalance this design 2) Wind: ASC Vasd=103 Cat. II; Exp Exterior (2 vertical lef forces & M DOL=1.60 3) Truss desi only. For see Stand. or consult 4) TCLL: ASC DOL=1.15 snow); Pf=	Max Horiz 2=43 (LC Max Uplift 2=-10 (LC Max Grav 2=110 (LC (LC 2) (lb) - Maximum Corr Tension 1-2=0/15, 2-3=-65/3 2-6=-16/39, 4-6=-16 3-6=-67/17 ed roof live loads have	applied or 10-0-0 oc 4=3-9-10, 6=3-9-10 12) 2 14), 4=-13 (LC 14) C 2), 4=110 (LC 2), 6 apression/Maximum 3, 3-4=-61/34, 4-5=0 /39 been considered for (3-second gust) CDL=6.0psf; h=25ft; S (envelope) and C-1 and right exposed; c C for members and hown; Lumber the plane of the trus (normal to the face) d Details as applicate gner as per ANSI/TP roof live load: Lumbe =20.0 psf (ground w: Lumber DOL=1.15	6) 7) 8) 9) 5=113 10 //15 LC //15 LC C end ss , er	load of 12.0 j overhangs n Gable requir Gable studs * This truss h on the bottor 3-06-00 tall b chord and ar Provide mec bearing plate 2 and 13 lb u)) See Standar Detail for Co	s been designed osf or 2.00 times on-concurrent wi es continuous bo spaced at 6-0-0 ias been designe n chord in all are y 2-00-00 wide v hanical connectio capable of withs plift at joint 4. d Industry Piggul nnection to base fied building desi Standard	flat roof le th other li ttom chor oc. ed for a liv as where will fit betw s. on (by oth standing 1 pack Trus truss as a	bad of 13.9 pe ve loads. d bearing. e load of 20.0 a rectangle veen the botto ers) of truss t 0 lb uplift at j s Connection	sf on Opsf om o		Quinne.		Weight: 18 lb	FT = 20%

Job	Truss	Truss Type		Ply	215 Crossing at ACC-Kessler B-Roof		
21070089-01	T1	Half Hip	4	1	Job Reference (optional)	145380356	

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Scale = 1:31.8

Scale = 1.51.0							<u>. </u>						
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 18.9/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2015/TI	기2014	CSI TC BC WB Matrix-MP	0.55 0.30 0.22	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.02 -0.04 0.01	(loc) 7-10 7-10 2	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 23 lb	GRIP 244/190 FT = 20%
	verticals, and 2-0-0 Rigid ceiling directly bracing. (size) 2=0-3-0, (Max Horiz 2=46 (LC Max Uplift 2=-32 (LC Max Grav 2=356 (LC (lb) - Maximum Com Tension 1-2=0/16, 2-3=-295/	applied or 10-0-0 oc 6= Mechanical 12) 2 11), 6=-10 (LC 15) 2 35), 6=345 (LC 2) pression/Maximum 89, 4-7=-205/149, 396/161, 5-6=-387/1	6) P 6) P 7) * 6 00 8) R 8) R 9) P b 6 10) G 0 10) G 11) H 76 lb	ad of 12.0 verhangs n rovide adee This truss h of the bottor 06-00 tall h nord and ar efer to gird rovide mec earing plate and 32 lb u raphical put the orients ottom chorc anger(s) or rovided suff	other connection ficient to support c 41 lb up at 4-10-4 tion of such conne	at roof lo other lip prevent to for a liv s where Il fit betw uss conr to (by oth anding 1 does no along the device (s oncentra lon top	bad of 13.9 p ve loads. water pondin ve load of 20. a rectangle veen the bott nections. ers) of truss 0 lb uplift at bt depict the e top and/or :) shall be ated load(s) ' chord. The	sf on g. Opsf com to joint size					
this design 2) Wind: ASC Vasd=103r Cat. II; Exp Exterior (2) right expos	1) Unbalanced roof live loads have been considered for this design.				Standard bw (balanced): Lur .15 ads (lb/ft) =-48, 4-5=-98, 6-8 ed Loads (lb) 90		rease=1.15,	Plate		0	N	NITH CA	ROLIN

- Lumber DOL=1.60 plate grip DOL=1.33 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0
- 4) Unbalanced snow loads have been considered for this design.



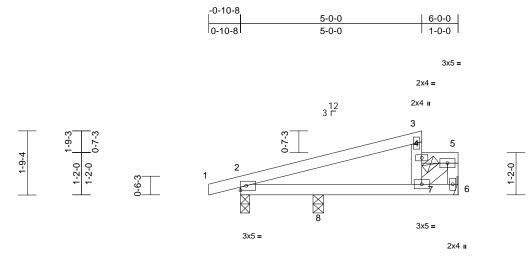


Job	Truss	Truss Type	Qty	Ply	215 Crossing at ACC-Kessler B-Roof		
21070089-01	T1A	Half Hip	9	1	Job Reference (optional)	145380357	

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Scale = 1:31.8

Loading TCLL (roof)	(psf) 20.0	Spacing Plate Grip DOL Lumber DOL	2-0-0 1.15		CSI TC BC	0.37	DEFL Vert(LL) Vert(CT)	in -0.01	(loc) 8-11 8-11	l/defl >999	L/d 240 180	PLATES MT20	GRIP 244/190
Snow (Pf/Pg) TCDL	18.9/20.0 10.0	Rep Stress Incr	1.15 NO		WB	0.36 0.12	Horz(CT)	-0.01 0.00	2	>999 n/a	n/a		
BCLL	0.0*	Code		5/TPI2014	Matrix-MP	0.12	11012(01)	0.00	2	n/a	n/a		
BCDL	10.0	0000	1102010	5/11/2011								Weight: 23 lb	FT = 20%
	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Sheathed or 6-0-0 o verticals, and 2-0-0 Rigid ceiling directly bracing. (size) 2=0-3-0, 6 Max Horiz 2=46 (LC Max Uplift 2=-36 (LC Max Grav 2=241 (LC 8=179 (LC	bc purlins: 4-7, 4-5. applied or 10-0-0 or 5= Mechanical, 8=0- 12) 11), 6=-10 (LC 15) 2 35), 6=278 (LC 2),	6) 7) d c 8) 3-8 9)	load of 12.0 overhangs n Provide adee * This truss f on the bottor 3-06-00 tall b chord and ar Refer to gird Provide mec bearing plate 6 and 36 lb u) Graphical pu or the orienta	s been designed performer and the second sec	flat roof le th other li o prevent ed for a liv as where will fit betw s. truss conr on (by oth standing 1 on does no	bad of 13.9 p ve loads. water pondin e load of 20. a rectangle veen the bott nections. ers) of truss 0 lb uplift at bt depict the	osf on g. Opsf tom to joint					
FORCES	(lb) - Maximum Com Tension	,	11		other connectio								
TOP CHORD BOT CHORD WEBS NOTES	1-2=0/16, 2-3=-182/ 3-4=-173/117, 4-5=- 2-8=-130/139, 7-8=- 5-7=-137/291	219/106, 5-6=-242/1		down and 37 selection of s responsibility OAD CASE(S)		on top ch device(s)	ord. The des is the	sign/					
 this design. Wind: ASC Vasd=103n Cat. II; Exp Exterior (2) right expos for member 	d roof live loads have E 7-10; Vult=130mph mph; TCDL=6.0psf; B b; Enclosed; MWFR) -0-10-8 to 5-10-4 zor red; end vertical left a rs and forces & MWFI DL=1.60 plate grip DO	(3-second gust) CDL=6.0psf; h=25ft; S (envelope) and C- ie; cantilever left and nd right exposed;C- RS for reactions sho	C d C		ads (lb/ft) =-48, 4-5=-98, 6 ed Loads (lb)	9=-20				C	th	OR THE CA	tighter
3) TCLL: ASC DOL=1.15 snow); Pf= Plate DOL= Ct=1.10, Lu	CE 7-10; Pr=20.0 psf (Plate DOL=1.15); Pg= 18.9 psf (flat roof snov =1.15); Category II; Ex	roof live load: Lumbe =20.0 psf (ground w: Lumber DOL=1.1 (p B; Fully Exp.;	5							COLUMN	N. A.	458 NOREW J	EER.ON



Job	Truss	Truss Type	Qty	Ply	215 Crossing at ACC-Kessler B-Roof	
21070089-01	T1GR	Roof Special Girder	1	2	Job Reference (optional)	145380358

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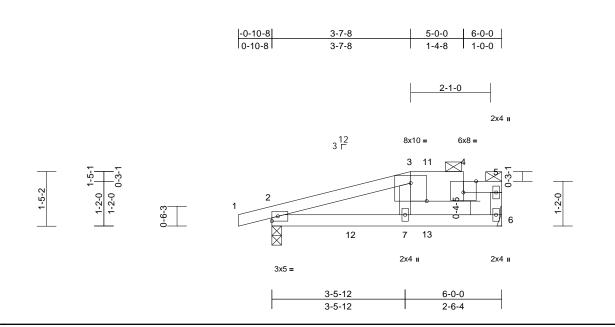


Plate Offsets (X, Y): [3:0-5-0,Edge], [4:0-4-0,Edge]	
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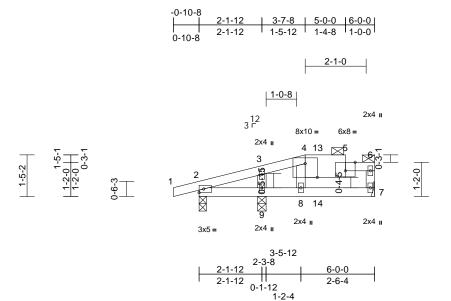
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Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 18.9/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2015	5/TPI2014	CSI TC BC WB Matrix-MP	0.27 0.71 0.03	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.09 -0.18 0.02	(loc) 7-10 7-10 2	l/defl >766 >393 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 50 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD 2x 2.0 BOT CHORD 2x WEBS 2x BRACING TOP CHORD St BOT CHORD Ri BOT CHORD Ri BOT CHORD Ri Max Max Max FORCES (lb TOP CHORD 1-1- TOP CHORD 1-1- BOT CHORD 2- 6- WEBS 3- NOTES 1) 2-ply truss to b (0.131"x3") nai Top chords co oc, 2x10 - 2 ro Bottom chords 0-9-0 oc. Web connecte 2) All loads are co except if noted CASE(S) secti provided to dis unless otherwi	4 SP No.2 *Excep DE 4 SP No.2 4 SP No.3 heathed or 6-0-0 or rticals, and 2-0-0 (gid ceiling directly acing. e) 2=0-3-0, 6 (Horiz 2=26 (LC (Uplift 2=-41 (LC (Grav 2=428 (LC)) - Maximum Com- nision 2=0/16, 2-3=-150/(11=-9/9, 4-5=-10/7 12=-48/13, 7-12=-1 13=-10/7 7=-264/41 be connected toget is as follows: nnected as follows: ws staggered at 0 connected as follows ws staggered at 0 connected as follows or connected as follows is staggered at 0 connected as follows: nnected as follows: 2=0/16, 2-3=-150/(13=-10/7 7=-264/41 be connected toget is as follows: nnected as follows: as font (F) or bar on. Ply to ply con- tribute only loads se indicated.	applied or 6-0-0 oc 5= Mechanical 10) 5 7), 6=-9 (LC 8) 5 31), 6=376 (LC 29) pression/Maximum 69, 3-11=-4/18, 7, 5-6=-136/21 34/13, 7-13=-10/7, ther with 10d s: 2x4 - 1 row at 0-9-0	5) 6) 7) 8) 9) 10 11 12 13	Vasd=103mp Cat. II; Exp E left and right exposed; Lui TCLL: ASCE DOL=1.15 PI Plate DOL=1 Ct=1.10, Lu= Unbalanced design. This truss ha load of 12.0 overhangs ni Provide aded * This truss t on the bottor 3-06-00 tall b chord and ar) Refer to girdi) Provide medc bearing plate and 41 lb upl) Graphical pu or the orienta bottom choro) Hanger(s) or provided suff down and 14 down and 15 on bottom choro DAD CASE(S)	snow loads have I as been designed f port 2.00 times fl on-concurrent with quate drainage to p has been designed in chord in all area by 2-00-00 wide with y other members. er(s) for truss to tri hanical connection e capable of withst lift at joint 2. "If n representation ation of the purlin a d. "other connection ficient to support c i bup at 4-0-12 o bup at 4-0-12, a bord. The design/s levice(s) is the res Standard bw (balanced): Lur .15	BCDL=6 RS (env. rtical left late grip f (roof liv g=20.0 p ow: Lurr Exp B; F been cor for great lat roof h for a liv s where ll fit betv uss conr n (by oth anding S does no along the device(s oncentra n top ch and 24 lb selection ponsibili	.0psf; h=25ft elope); cantile and right DOL=1.33 e load: Lumb bsf (ground ber DOL=1.1 ully Exp.; usidered for the er of min roof ad of 13.9 p re loads. water ponding e load of 20.0 a rectangle veen the bott lo uplift at jo to depict the s top and/or) shall be tied load(s) 6 ord, and 118 down at 4-(of such ty of others.	ever ber 15 his f live sf on g, 0psf om to to size 51 lb lb 0-12	Co	oncentra	ated Lo =-38 (l	3-4=-58, 4-5=-1: ads (lb) B), 12=-118 (B), CH CA OFFERS SEA 4584	38, 6-8=-20 13=-24 (B)



Job	Truss	Truss Type	Qty	Ply	215 Crossing at ACC-Kessler B-Roof			
21070089-01	T1GRA	Roof Special Girder	1	2	Job Reference (optional)	145380359		

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

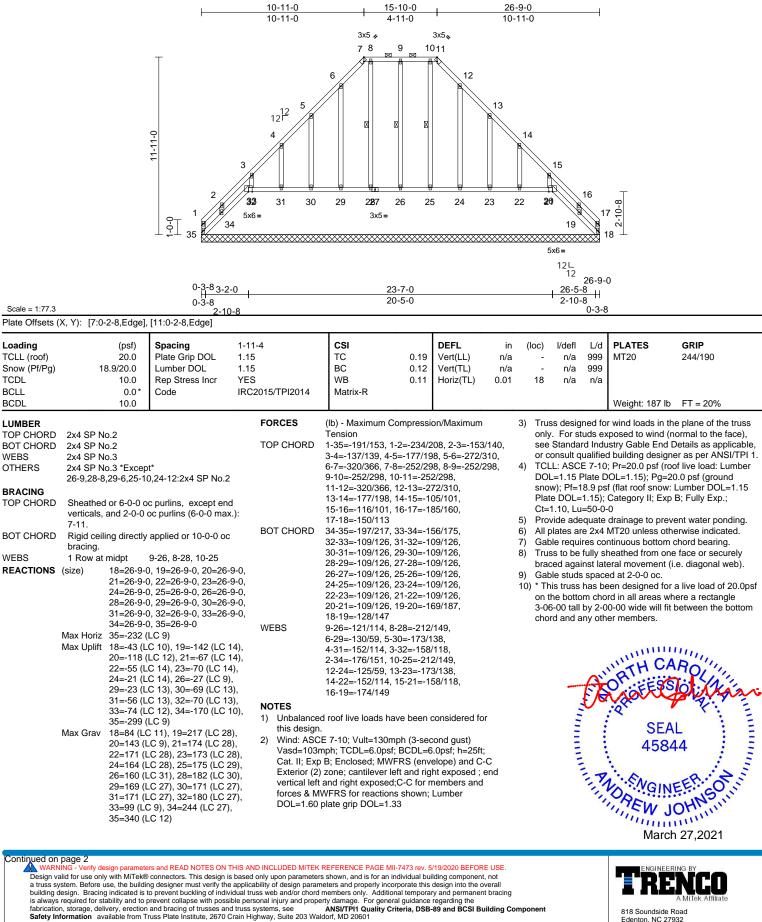
						-						-		
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL	(psf) 20.0 18.9/20.0 10.0 0.0*	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC201	5/TPI2014	CSI TC BC WB Matrix-MP	0.09 0.11 0.02	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.01 -0.01 0.00	(loc) 7-8 7-8 2	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 244/190	
BCDL	10.0		110201	5,1112011								Weight: 51 lb	FT = 20%	
BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	verticals, and 2-0-0 Rigid ceiling directly bracing. (size) 2=0-3-0, 7 Max Horiz 2=26 (LC Max Uplift 2=-48 (LC (LC 11) Max Grav 2=104 (LC	c purlins, except end oc purlins: 4-6. applied or 6-0-0 oc 7= Mechanical, 9=0-3 10) : 48), 7=-6 (LC 12), 9 C 31), 7=201 (LC 30)	= 3) 1 4) 8 =-5 5)	except if note CASE(S) sec provided to c unless other Unbalanced this design. Wind: ASCE Vasd=103mg Cat. II; Exp E left and right exposed; Lut TCLL: ASCE DOL=1.15 P snow); Pf=18 Plate DOL=1	considered equa ed as front (F) or ction. Ply to ply c listribute only loa wise indicated. roof live loads ha 7-10; Vult=130m oh; TCDL=6.0psf 3; Enclosed; MWU exposed ; end vi mber DOL=1.60 7-10; Pr=20.0 p; late DOL=1.51; Category II	back (B) onnection ds noted ave been (ph (3-sec ; BCDL=6 FRS (env ertical left plate grip sf (roof liv Pg=20.0 p now: Lurr	face in the LC s have been as (F) or (B), considered for cond gust) .0psf; h=25ft elope); cantil and right DOL=1.33 re load: Lumb bsf (ground uber DOL=1.1	or ; ever per	prov dow dow of s othe LOAD (1) De Inc Ur	vided su vn and 1 vn at 4- uch con ers. CASE(S ead + Sr crease= hiform Lo Vert: 1 oncentra	fficient 4 lb up 0-12 of nection) Sta 100 (ba 1.15 bads (l 4=-48, ited Lo	o at 4-0-12 on to n bottom chord. n device(s) is th ndard alanced): Lumbe	centrated load(s) 61 lb op chord, and 24 lb The design/selection e responsibility of er Increase=1.15, Plate	
FORCES	9=390 (L0 (lb) - Maximum Com	,	6)		=50-0-0 snow loads have	been cor	nsidered for th	his						
TOP CHORD	Tension 1-2=0/16, 2-3=-24/6 4-13=-4/18, 5-13=-9 6-7=-136/21		7)	load of 12.0	as been designed psf or 2.00 times on-concurrent wit	flat roof lo	oad of 13.9 p							
(0.131"x3") Top chords oc, 2x10 - 2 Bottom cho 0-9-0 oc.	2-9=-32/11, 8-9=-17, 7-14=-10/7 3-9=-194/28, 4-8=-1 to be connected toge nails as follows: connected as follows 2 rows staggered at 0 ords connected as follows ected as follows: 2x4 -	09/31 ther with 10d s: 2x4 - 1 row at 0-9-0 -9-0 oc. ows: 2x4 - 1 row at) 11	* This truss h on the bottor 3-06-00 tall b chord and ar) Refer to gird) Provide mec bearing plate 7, 48 lb uplift	quate drainage to has been designe in chord in all are by 2-00-00 wide v hy other members er(s) for truss to 1 hanical connection e capable of withs at joint 2 and 5 I irlin representation ation of the purlin b.	ed for a liv as where will fit betv s. truss conr on (by oth standing 6 b uplift at on does no	e load of 20.0 a rectangle veen the botto nections. ers) of truss t b b uplift at jo joint 9. bt depict the s	Dpsf om to int		Continue	A STATE OF THE STA	SEA 458 NOREW Marc	AL 44 VEEER.OO 100000000000000000000000000000000000	٤



A MiTek Affilia 818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	215 Crossing at ACC-Kessler B-Roof	
21070089-01	T4GE	GABLE	1	1	Job Reference (optional)	145380360

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818 Soundside Road

Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	215 Crossing at ACC-Kessler B-Roof	
21070089-01	T4GE	GABLE	1	1	Job Reference (optional)	145380360

- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 299 lb uplift at joint 35, 43 lb uplift at joint 18, 74 lb uplift at joint 33, 118 lb uplift at joint 20, 27 lb uplift at joint 26, 23 lb uplift at joint 29, 69 lb uplift at joint 30, 56 lb uplift at joint 31, 70 lb uplift at joint 32, 170 lb uplift at joint 34, 21 lb uplift at joint 24, 70 lb uplift at joint 23, 55 lb uplift at joint 22, 67 lb uplift at joint 21 and 142 lb uplift at joint 19.
- 12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 33, 20, 26, 28, 29, 30, 31, 32, 34, 25, 24, 23, 22, 21, 19.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Run: 8.43 S Mar 4 2021 Print: 8.430 S Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 11:24:38 ID:hvcBhN021MZMzDW2EtV1bpzbl2v-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 2



Job	Truss	Truss Type	Qty	Ply	215 Crossing at ACC-Kessler B-Roof	
21070089-01	Т5	Roof Special	10	1	Job Reference (optional)	145380361

TCDL

BCLL

BCDL

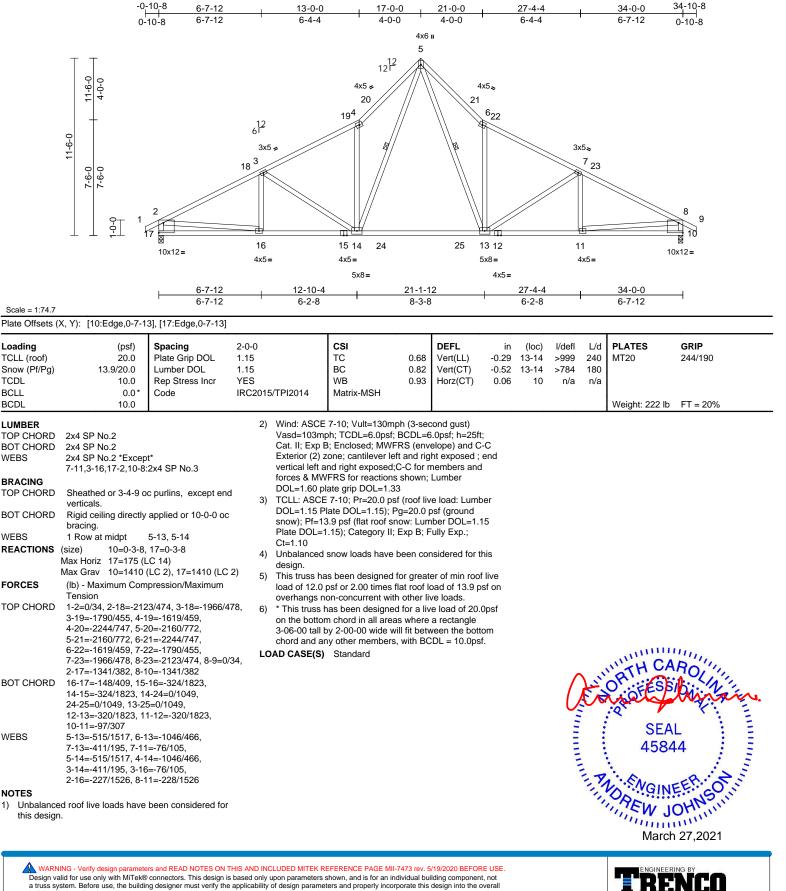
WEBS

WEBS

WEBS

Run: 8 43 S Mar, 4 2021 Print: 8 430 S Mar, 4 2021 MiTek Industries, Inc. Fri Mar 26 11:24:39 ID:hvcBhN021MZMzDW2EtV1bpzbl2v-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

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building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Job	Truss	Truss Type	Qty	Ply	215 Crossing at ACC-Kessler B-Roof	
21070089-01	T5A	Roof Special	8	1	Job Reference (optional)	145380362

Loading

TCDL

BCLL

BCDL

WEBS

WEBS

FORCES

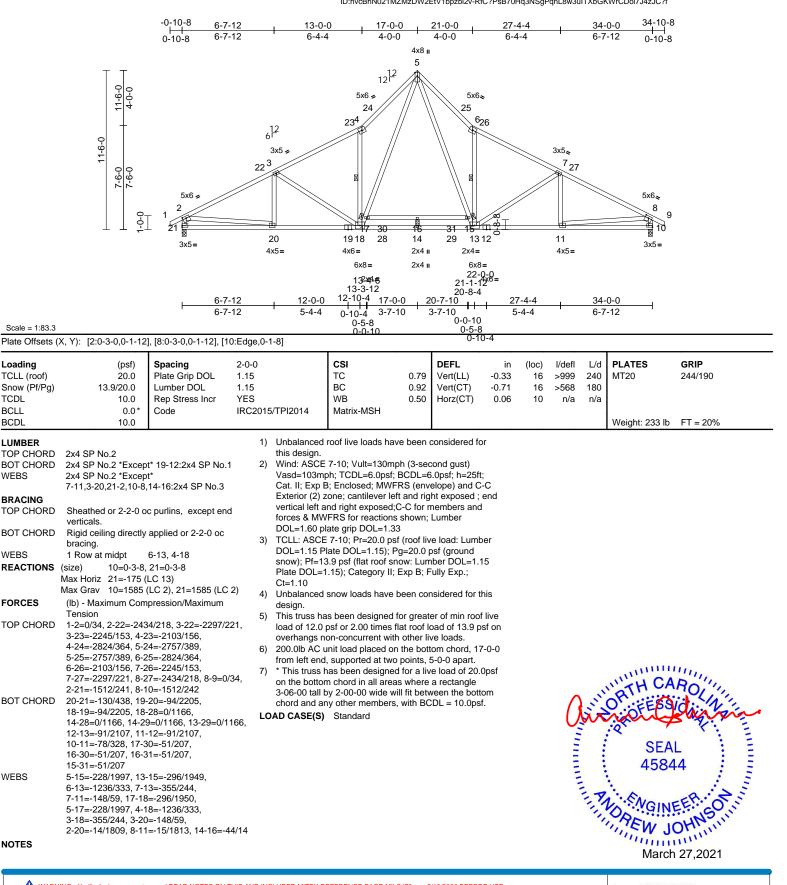
WEBS

NOTES

LUMBER

Run: 8 43 S Mar, 4 2021 Print: 8 430 S Mar, 4 2021 MiTek Industries, Inc. Fri Mar 26 11:24:40 ID:hvcBhN021MZMzDW2EtV1bpzbl2v-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

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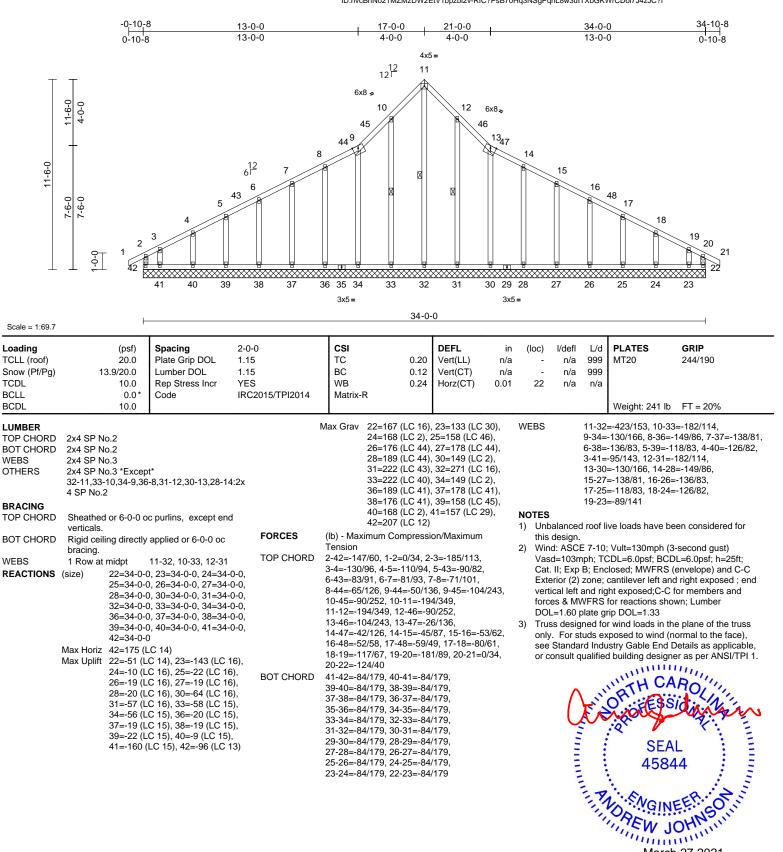


Job	Truss	Truss Type	Qty	Ply	215 Crossing at ACC-Kessler B-Roof	
21070089-01	T5GE	Roof Special Supported Gable	1	1	Job Reference (optional)	145380363

Run: 8.43 S Mar 4 2021 Print: 8.430 S Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 11:24:41 ID:hvcBhN021MZMzDW2EtV1bpzbl2v-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

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Continued on page 2

Job	Truss	Truss Type	Qty	Ply	215 Crossing at ACC-Kessler B-Roof	
21070089-01	T5GE	Roof Special Supported Gable	1	1	Job Reference (optional)	145380363

- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 2-0-0 oc.
- 11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 96 lb uplift at joint 42, 51 lb uplift at joint 22, 58 lb uplift at joint 33, 56 lb uplift at joint 34, 20 lb uplift at joint 36, 19 lb uplift at joint 37, 19 lb uplift at joint 38, 22 lb uplift at joint 39, 9 lb uplift at joint 40, 160 lb uplift at joint 41, 57 lb uplift at joint 31, 64 lb uplift at joint 30, 20 lb uplift at joint 28, 19 lb uplift at joint 27, 19 lb uplift at joint 26, 22 lb uplift at joint 28, 19 lb uplift at joint 27, 19 lb uplift at joint 26, 22 lb uplift at joint 27, 10 lb uplift at joint 26, 22 lb uplift at joint 27, 10 lb uplift at joint 26, 20 lb uplift at joint 27, 10 lb uplift at joint 26, 20 lb uplift at joint 28, 10 lb uplift at joint 24 and 143 lb uplift at joint 28, 10 lb uplift at joint 26, 10 lb uplift at joi

LOAD CASE(S) Standard

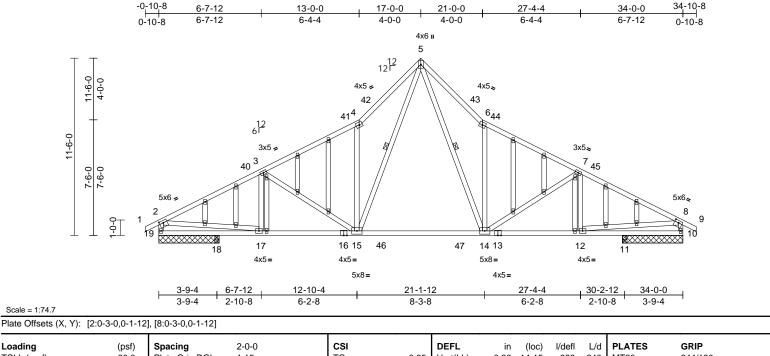
Run: 8.43 S Mar 4 2021 Print: 8.430 S Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 11:24:41 ID:hvcBhN021MZMzDW2EtV1bpzbl2v-RfC?PsB70Hq3NSqPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 2



Job	Truss	Truss Type	Qty	Ply	215 Crossing at ACC-Kessler B-Roof	
21070089-01	T5SE	Roof Special Structural Gable	1	1	Job Reference (optional)	145380364

Run: 8 43 S. Mar. 4 2021 Print: 8 430 S. Mar. 4 2021 MiTek Industries. Inc. Fri Mar 26 11:24:42 ID:hvcBhN021MZMzDW2EtV1bpzbl2v-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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			NOTES									
BCDL	10.0										Weight: 266 lb	FT = 20%
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
TCDL	10.0	Rep Stress Incr	YES	WB	0.89	Horz(CT)	0.05	10	n/a	n/a		
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.46	14-15	>694	180		
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	-0.26	14-15	>999	240	MT20	244/190
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP

LUMBER TOP CHORD 2x4 SP No 2 2x4 SP No.2 BOT CHORD WEBS 2x4 SP No.2 *Except* 7-12,3-17,19-2,10-8:2x4 SP No.3 OTHERS 2x4 SP No.3 BRACING TOP CHORD Sheathed or 3-7-5 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. WEBS 1 Row at midpt 5-14. 5-15 **REACTIONS** (size) 10=3-11-0, 11=0-3-8, 18=0-3-8, 19=3-11-0 Max Horiz 19=175 (LC 14) Max Uplift 10=-32 (LC 16), 19=-29 (LC 15) Max Grav 10=1210 (LC 2), 11=209 (LC 3), 18=211 (LC 29), 19=1210 (LC 2) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/34. 2-40=-1893/471. 3-40=-1736/475. 3-41=-1679/454, 4-41=-1509/457, 4-42=-2104/745, 5-42=-2019/770, 5-43=-2019/771, 6-43=-2104/745, 6-44=-1509/457, 7-44=-1679/454, 7-45=-1736/475, 8-45=-1893/472, 8-9=0/34, 2-19=-1228/381, 8-10=-1228/381 BOT CHORD 18-19=-175/272, 17-18=-175/272 16-17=-321/1617, 15-16=-321/1617, 15-46=0/982, 46-47=0/982, 14-47=0/982, 13-14=-317/1617, 12-13=-317/1617, 11-12=-90/183, 10-11=-90/183 WEBS 5-14=-514/1408, 6-14=-997/465, 7-14=-301/194, 7-12=-205/107, 5-15=-513/1406, 4-15=-997/465, 3-15=-301/194. 3-17=-205/106. 2-17=-231/1449, 8-12=-232/1449

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 B; Enclosed; MWFRS (envelope) 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=1.33
- Truss designed for wind loads in the plane of the truss 3) only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable. or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this 5) design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated. 7) Truss to be fully sheathed from one face or securely 8)
- braced against lateral movement (i.e. diagonal web). Gable studs spaced at 2-0-0 oc. 9)
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 19 and 32 lb uplift at joint 10.
- LOAD CASE(S) Standard



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