Job	Truss	Truss Type	Qty	Ply	Commodore 315 NC
91192	CCB37711	CAPE COD	1	1	R41P9F (WITH BEARING AT OH 1 SIDE)
					Ref. #3157426

Universal Forest Products Inc., Grand Rapids, MI 49525, Weston Gorby 8.130 e Dec 12 2017 MiTek Industries, Inc. Thu Mar 8 10:48:52 2018 Page 1 of 2

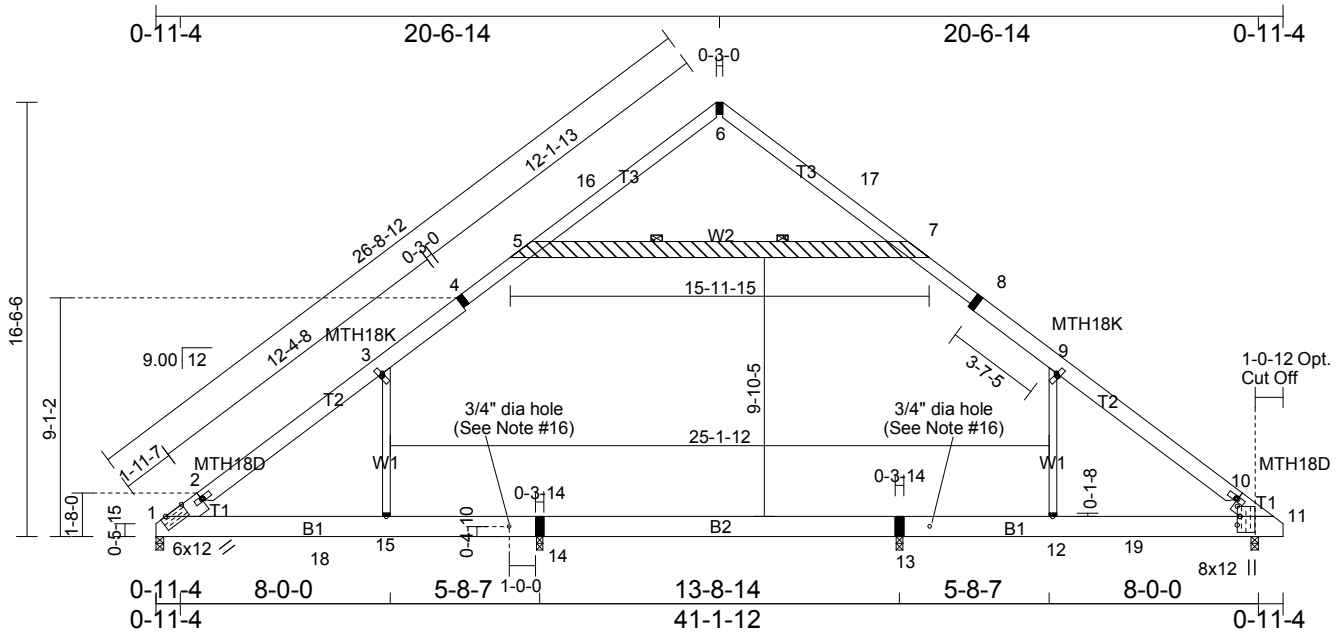

Plate Offsets (X,Y)-- [1:0-9-3,0-0-0], [2:0-0-11,0-0-0], [3:0-0-11,0-1-2], [9:0-0-11,0-1-2], [10:0-0-11,0-0-0], [11:0-1-3,0-4-0], [11:0-4-10,0-1-3]

SPACING-: 2-0-0		**SPACING-:** 1-4-0		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
LOADING (psf)		**LOADING** (psf)		Plate Grip DOL	1.15	TC	0.94	Vert(LL)	0.60	1-15	>288	240	MT20	137/130
TCLL	23.1	TCLL	34.7	Lumber DOL	1.15	BC	0.62	Vert(TL)	-0.55	1-15	>315	180	MT18HS	137/130
(Ground Snow=30.0)		(Ground Snow=45.0)		Rep Stress Incr	YES	WB	0.52	Horz(TL)	0.02	11	n/a	n/a		
TCDL	7.0	TCDL	10.5	Code	IBC2009/TPI2007	Matrix-R		Attic	-0.31	14-15	452	360	Weight: 277 lb	
BCLL	0.0 *	BCLL	0.0 *										FT = 0%	
BCDL	10.0	BCDL	15.0											

LUMBER-

TOP CHORD	1-1/2X9-1/4 LP-LSL TC 1.75E *Except*
	T2: 2x8 SP No.1 or 2x8 SPF No.2
	T3: 2x6 SP No.1 or 2x6 SPF No.2
BOT CHORD	2x10 SP DSS
WEBS	2x4 SP No.2 or 2x4 SPF No.2 *Except*
	W2: 2x8 SP No.2 or 2x8 SPF No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 5-3-12 oc bracing.
WEBS	2 Rows at 1/3 pts 5-7

REACTIONS. (lb/size) 1=1331/0-3-8 (min. 0-2-1), 11=1345/0-3-8 (min. 0-2-2), 14=510/0-3-0 (min. 0-1-8), 13=420/0-3-0 (min. 0-1-8)
Max Horz 1=-1083(LC 7)
Max Uplift 1=-1011(LC 9), 11=-1018(LC 9), 14=-471(LC 9), 13=-435(LC 7)
Max Grav 1=1331(LC 1), 11=1345(LC 1), 14=1256(LC 13), 13=1206(LC 13)

FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=-1489/1126, 2-3=-1304/1140, 3-4=-1357/1413, 4-5=-1166/1433, 5-16=-459/350, 6-16=-347/370, 6-17=-340/371, 7-17=-465/351, 7-8=-1166/1432, 8-9=-1357/1412, 9-10=-1304/1121, 10-11=-1375/1113
BOT CHORD	1-18=-645/1057, 15-18=-645/1057, 14-15=-640/1055, 13-14=-640/1055, 12-13=-640/1055, 12-19=-642/1057, 11-19=-642/1057
WEBS	9-12=-534/900, 3-15=-564/930, 5-7=-874/1420

REQUIRED FIELD JOINT CONNECTIONS - Maximum Compression (lb)/ Tension (lb)/ Shear (lb)/ Moment (lb-in)
4=1256/1421/261/0, 5=885/1432/72/0, 6=272/373/316/0, 7=888/1436/72/0, 8=1255/1421/241/0, 12=534/900/0/0, 13=640/1055/687/0, 14=640/1055/687/0, 15=564/930/0/0

E-signed by Kevin Freeman

3/8/2018

The professional engineering seal indicates that a licensed professional has reviewed the design under the standards referenced within this document, not necessarily the current state building code. The engineering seal is not an approval to use in a specific state. The final determination on whether a truss design is acceptable under the locally adopted building code rest with the building official or designated appointee.

Job	Truss	Truss Type	Qty	Ply	Commodore 315 NC
91192	CCB37711	CAPE COD	1	1	R41P9F (WITH BEARING AT OH 1 SIDE)
					Ref. #3157426

NOTES-

1) Wind: ASCE 7-05; 130mph @24in o.c.; TCDL=2.8psf; BCDL=4.0psf; (Alt. 150mph @16in o.c.; TCDL=4.2psf; BCDL=6.0psf); h=30ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-05; Pg=30.0 psf (ground snow); Ps=23.1 psf (roof snow); Category II; Exp C; Partially Exp.; Ct=1.1
3) Roof design snow load has been reduced to account for slope.
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
6) All plates are MT20 plates unless otherwise indicated.
7) See HINGE PLATE DETAILS for plate placement.
8) Provisions must be made to prevent lateral movement of hinged member(s) during transportation.
9) All additional member connections shall be provided by others for forces as indicated.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * This truss has been designed for a live load of 20.0psf 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.
12) Ceiling dead load (5.0 psf) on member(s). 3-5, 7-9, 5-7
13) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 14-15, 13-14, 12-13
14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1011 lb uplift at joint 1, 1018 lb uplift at joint 11, 471 lb uplift at joint 14 and 435 lb uplift at joint 13.
15) This truss has been designed in accordance with the 2009 IBC Section 2303.4.6, 2009 IRC Section 802.10.2.
16) This truss design allows for the following max. bolt holes along the member c/lines spaced a min. of 0-6-0 apart: 0.750in in the bottom chord.
17) Attic room checked for L/360 deflection.
18) Take precaution to keep the chords in plane, any bending or twisting of the hinge plate must be repaired before the building is put into service.
19) The field-installed members are an integral part of the truss design. Retain a design professional to specify final field connections and temporary supports. All field-installed members must be properly fastened prior to applying any loading to the truss. This design anticipates the final set position.
20) Based on: CCB37709
21) Revision: Removed bottom chord scabs, added hole note.

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GRAND RAPIDS, MI 49525

UNIVERSAL FOREST PRODUCTS, INC.

Job	Truss	Customer	MFG
91192	CCB37711	COMMODORE	315

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