Job	Truss	Truss Type	Qty	Ply	DOVETAIL ADDITION
B134896	T01	MONO PITCH	7	1	Job Reference (optional)

Mainely Trusses, Inc., Fairfield, ME, Ken Lee

7.350 s Sep 27 2012 MiTek Inc
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-1-0-0 | 4-2-3 | 15-0-0 | 21-10-5
1-0-0 | 4-2-3 | 10-9-13 | 6-10-5

Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 06/06/13

9-7-2 | 19-5-5 | 30-0-0
9-7-2 | 9-10-3 | 10-6-11

Plate Offsets (X,Y): [2:0-6-8,Edge], [3:0-4-8,0-2-4], [4:0-6-0,0-5-0], [7:0-8-0,0-2-4], [8:0-2-8,0-2-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	46.2	Plates Increase	1.15	TC	0.91	Vert(LL)	-0.61	8-10	>577	240	MT20	197/144
(Ground Snow=60.0)		Lumber Increase	1.15	BC	0.84	Vert(TL)	-0.96	8-10	>371	180	MT20H	148/108
TCDL	7.0	Rep Stress Incr	YES	WB	0.84	Horz(TL)	0.23	7	n/a	n/a	MT18H	197/144
BCLL	0.0	Code IRC2009/TPI2007		(Matrix-M)							Weight: 138 lb	FT = 20%
BCDL	10.0											

LUMBER
TOP CHORD 2x6 SPF No.2 *Except*
T1: 2x6 SPF 2100F 1.8E
BOT CHORD 2x4 SPF 2100F 1.8E
WEBS 2x4 SPF No.2 *Except*
W2: 2x4 SPF 1650F 1.5E, W8: 2x8 SYP 2400F 2.0E, W7: 2x4 SYP 2400F 2.0E
OTHERS 2x4 SPF 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 6-2-14 oc bracing.
WEBS 1 Row at midpt 4-8
2 Rows at 1/3 pts 5-7

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 7=1865/0-5-8 (min. 0-1-8), 11=2009/0-5-8 (min. 0-1-8)
Max Horz11=238(LC 6)
Max Uplift7=-466(LC 7), 11=-535(LC 5)
Max Grav7=2336(LC 2), 11=2208(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-862/75, 3-12=-6868/1288, 4-12=-6753/1294, 4-5=-4929/951, 6-7=-507/150, 2-11=-490/148
BOT CHORD 10-11=-1565/6133, 9-10=-1424/6629, 8-9=-1424/6629, 7-8=-782/3974
WEBS 3-10=0/690, 4-10=0/540, 4-8=-2078/606, 5-8=-200/1494, 5-7=-4283/915, 3-11=-5554/1492

NOTES
1) Wind: ASCE 7-05; 100mph (3-second gust); TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-05; Pg=60.0 psf (ground snow); Ps=46.2 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 greater of min roof live load of 20.0 psf or 1.00 times flat roof load of 46.2 psf on overhangs non-concurrent with other live loads.
6) All plates are MT20 plates 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) Bearing at joint(s) 7, 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7 and 11. This connection is for uplift only and does not consider lateral forces.
10) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

LOAD CASE(S) Standard