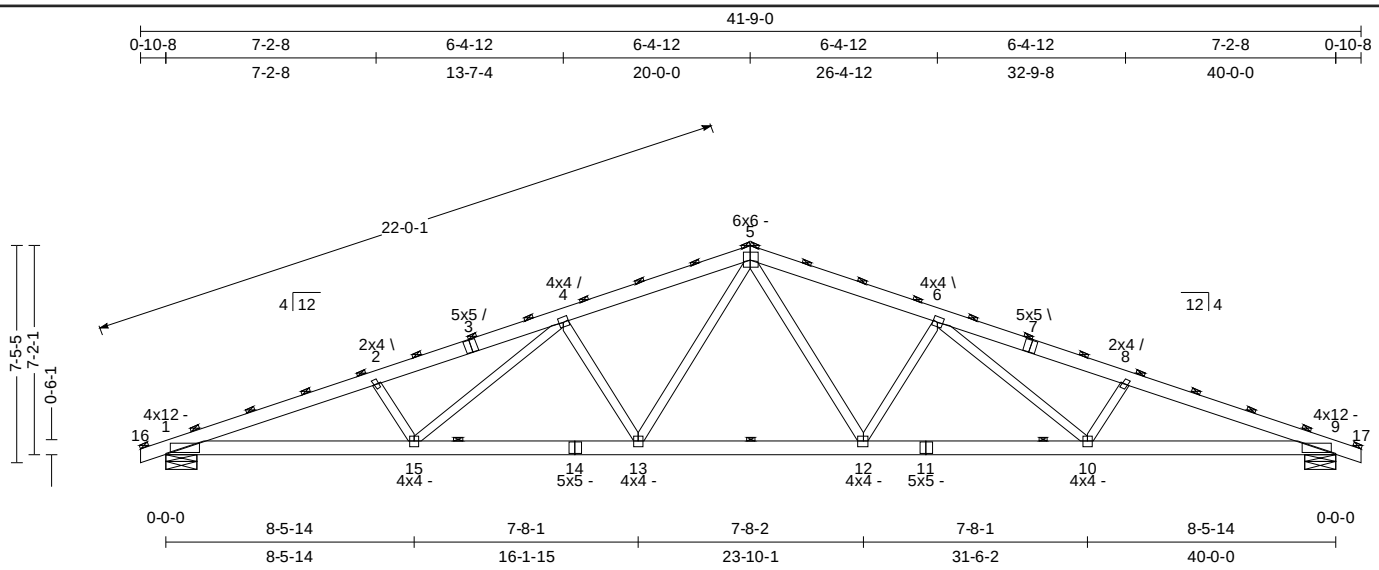
C & M Truss
8319 Ashridge Arnhiem
Address 2
Sardinia, OH 45171

Truss: 40cAg
Job: 4_12pAG
Designer: Aston Wagner
Date: 02/09/26 09:11:25
Page: 1 of 1

SPAN	PITCH	QTY	OHL	OHR	CANT L	CANT R	PLY(S)	SPACING	WGT/PLY
40-0-0	4/12	1	0-10-8	0-10-8	0-0-0	0-0-0	1	48 in	246 lbs



All plates shown to be Eagle 20 unless otherwise noted.

Loading (psf)		General		CSI		Deflection		L/	(loc)	Allowed
TCLL :	20	Bldg Code :	IBC 2018/ TPI 1-2014	TC :	0.65 (1-2)	Vert TL:	0.59 in	L / 775	(12-13)	L / 180
GSL :	25			BC :	0.84 (15-1)	Vert LL:	0.4 in	L / 999	(12-13)	L / 240
TCDL :	5	Rep Mbr :	No	Web :	0.49 (6-12)	Horz TL:	0.17 in		9	
BCLL :	0	Lumber D.O.L. :	125 %							
BCDL :	4									

Reaction

JT	Brg Combo	Brg Width	Rqd Brg Width	Max React	Max Grav Uplift	Max MWFRS Uplift	Max C&C Uplift	Max Uplift	Max Horiz
1	1	13 in	2.84 in	2,407 lbs	·	-48 lbs	·	-48 lbs	25 lbs
9	1	13 in	2.84 in	2,407 lbs	·	-48 lbs	·	-48 lbs	·

Material

TC: SYP #1 2 x 6
BC: SYP #1 2 x 6
Web: SYP #2 2 x 4

Bracing

TC: Purlins at 24 " OC, Purlin design by Others.
BC: Sheathed or Purlins at 10-0-0, Purlin design by Others.

Loads

1) This truss has been designed for the effects of balanced (13.2 psf) and unbalanced sloped roof snow loads in accordance with ASCE7 - 16 with the following user defined input: 25 psf GSL, Terrain B, Exposure (Ce = 1.0), Thermal (Ct = 1.10), DOL = 1.15. Ventilated. Unobstructed slippery surface. If the roof configuration differs from hip/gable, Building Designer shall verify snow loads.
2) This truss has been designed to account for the effects of ice dams forming at the eaves.
3) This truss has been designed for the effects of wind loads in accordance with ASCE7 - 16 with the following user defined input: 115 mph (Factored), Exposure B, Enclosed, Gable/Hip, Risk Category I, h = 15 ft, Not End Zone Truss, Both end webs considered. DOL = 1.60
4) Minimum storage attic loading has not been applied in accordance with IBC 1607.1
5) In accordance with IBC 1607.1, minimum BCLL's do not apply
6) This truss is designed as an agricultural truss which for the purposes of this program is defined as a structure that represents a low hazard to people and property. See BCSI-10 for installation and temporary bracing.

Member Forces

Table indicates: Member ID, max CSI, max tension force, (max compression force). Only forces greater than 300lbs are shown in this table.

TC	1-2	0.654		(-6,071 lbs)	4-5	0.403		(-4,417 lbs)	6-8	0.527		(-5,748 lbs)			
	2-4	0.525		(-5,748 lbs)	5-6	0.403		(-4,417 lbs)	8-9	0.654		(-6,071 lbs)			
BC	9-10	0.839	5,677 lbs		12-13	0.452	3,506 lbs		15-1	0.839	5,677 lbs				
	10-12	0.603	4,616 lbs		13-15	0.603	4,616 lbs								
Web	2-15	0.095		(-631 lbs)	4-13	0.494		(-1,077 lbs)	5-12	0.275	1,220 lbs		6-10	0.231	1,025 lbs
	4-15	0.231	1,025 lbs		5-13	0.275	1,220 lbs		6-12	0.494		(-1,077 lbs)	8-10	0.095	(631 lbs)

Notes

1) Unless noted otherwise, do not cut or alter any truss member or plate without prior approval from a Professional Engineer.
2) The fabrication tolerance for this roof truss is 20 % (Cq = 0.80).
3) Building Designer shall verify self weight of the truss and other dead load materials do not exceed TCDL 5 psf.
4) Building Designer shall verify self weight of the truss and other dead load materials do not exceed BCDL 4 psf.
5) Design assumes minimum _x2 (flat orientation, visually graded) purlins attached to the top of the TC at purlin spacing shown with at least 2-10d nails.
6) Brace bottom chord with approved sheathing or purlins per Bracing Summary
7) Lateral bracing shown is for illustration purposes only and may be placed on either edge of truss member.
8) A creep factor of 2.00 has been applied for this truss analysis.
9) The "SYP" label shown in the "Material Summary" above indicates the new SPIB design values effective June 1, 2013 were used.
10) Listed wind uplift reactions based on MWFRS & C&C loading.

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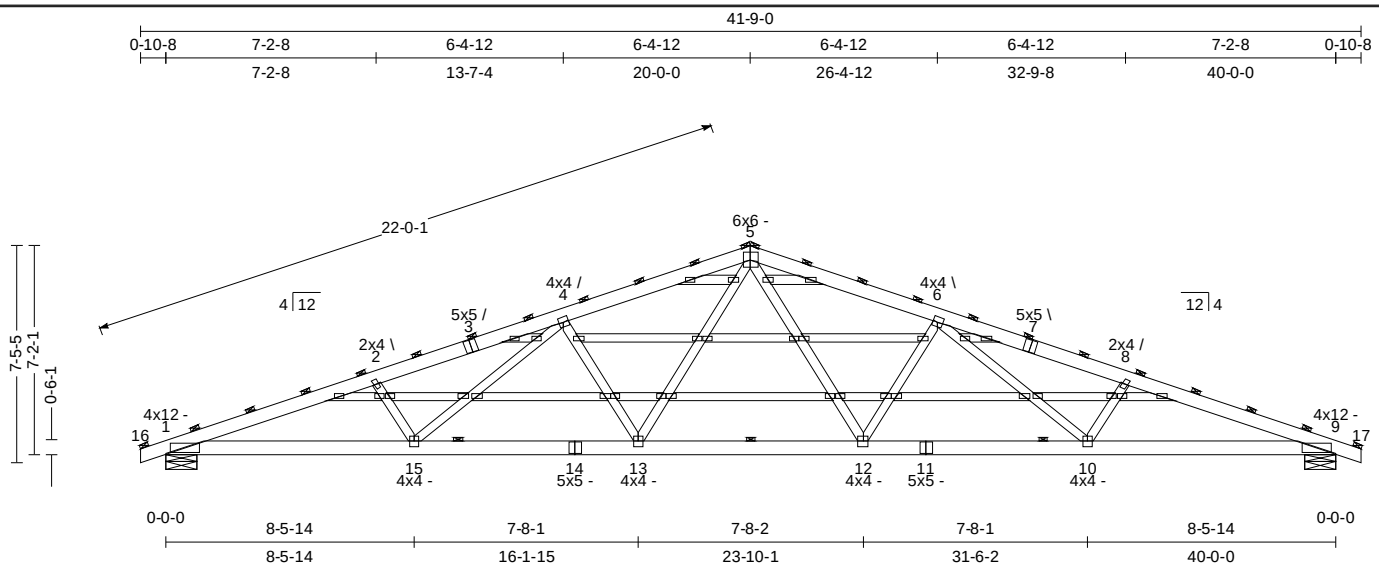

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Notes

1) Unless noted otherwise, do not cut or alter any truss member or plate without prior approval from a Professional Engineer.
2) Gable webs placed at 24 " OC, U.N.O.
3) Attach structural gable blocks with 2x4 20ga plates, U.N.O.
4) Bracing shown is for in-plane requirements. For out-of-plane requirements, refer to BCSI-B3 published by the SBCA.
5) The fabrication tolerance for this roof truss is 20 % (Cq = 0.80).
6) Building Designer shall verify self weight of the truss and other dead load materials do not exceed TCDL 5 psf.
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