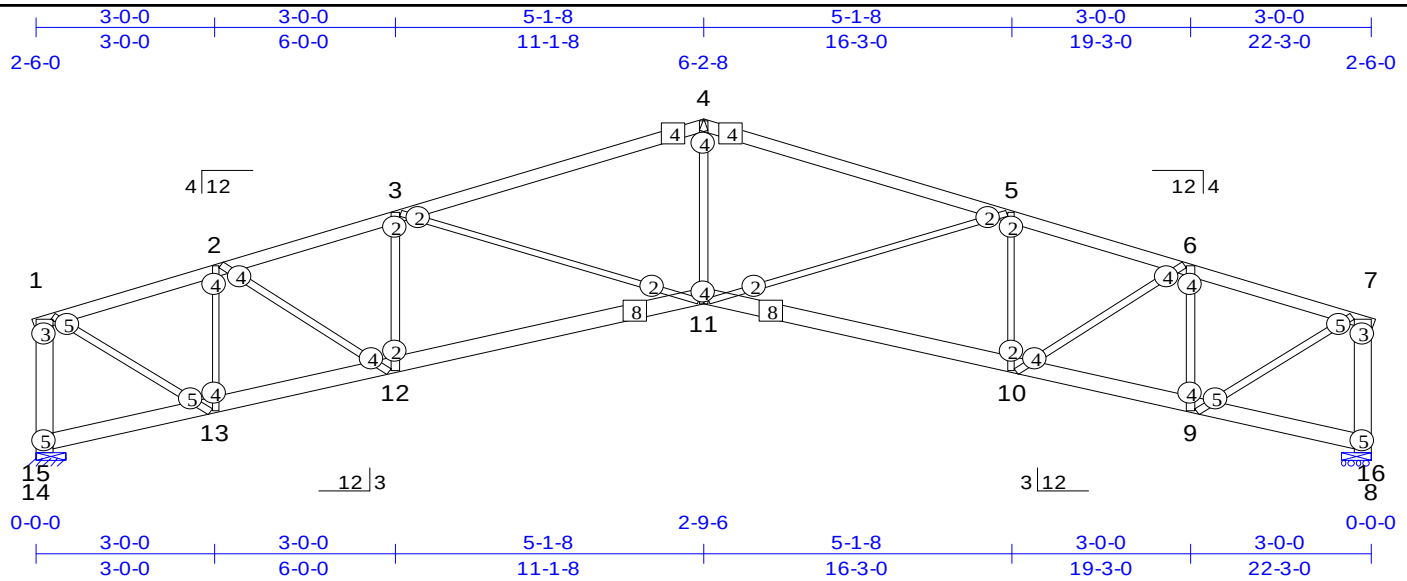
KeyBuild® System
KeyTruss®
Version: 1.140

Total Building Systems
440 South 7th St.
Cottonwood, Arizona 86326
(928)-649-0131 etribby@totalbuildingsystems.net

Truss:	T04_10
JobName:	LNPP
Date:	11/29/07 08:48 AM
System:	Amkey Ver:6.026
Page:	1 of 2
Report:	Eng Plot

SPAN	PITCH	QTY	OHL	OHR	PLYS	SPACING	WGT/PLY
22-3-0	4 /12	41	0-0-0	0-0-0	1	24 in	98.1 lbs



Circles indicate fastener count in webs. Squares indicate fastener count in chords. "Fasteners" indicates the number of #10 SDS Grabber fasteners required at one end of the member. Each value indicates the number of fasteners required per side of the truss. Where connection plates are called out on this drawing, a plate is required on each side of the truss. Refer to General Notes for further clarification. Allowable shear per fastener as follows: 27 mils: 131 lbs; 33 mils: 271 lbs; 43 mils: 428 lbs; 54 mils: 533 lbs; 68 mils: 558 lbs; 97 mils: 569 lbs; 118 mils: 569 lbs. Maintain fastener spacing at 9/16" min. Maintain fastener edge margin at 9/16" min for each sheet of steel connected.

CSI Summary	Deflection	L/	(loc)	Allowed
TC : 0.901 (3-4)	TL: 0.41 in	L / 619	(3-4)	L / 240
BC : 0.617 (12)	LL: 0.12 in	L / 999	(3-4)	L / 360
Web: 0.542 (6-9)	Horz TL: 0.26 in		16	

Reaction Summary

JT	Type	Brg Combo	BrgWidth	Max React	Max Grav Uplift	Max MWFRS Uplift	Max C&C Uplift	Max Uplift	Max Horiz
15	Pin (TS)	1	6 in	2,200 lbs			-522 lbs	-522 lbs	99 lbs
16	H Roll (TT)	1	6 in	2,200 lbs			-533 lbs	-533 lbs	

GUSSET PLATES

Joint	Detail	Gusset	Ga

Material Summary

TChd	TC16 2.5"			TChd Bracing: Sheathed	
BChd	TC20 3.5"			BChd Bracing: 48 in	
Webs	TW20 1.5"	except:			
1-15	TWW16 3.5"	7-16	TWW16 3.5"		

Loads Summary

1) This truss has been designed for the effects due to 10 psf bottom chord live load plus dead loads.
2) This truss has been designed for the effects due to wind loads in accordance with ASCE7 - 02, 95 mph, Exposure C. The building is Gable/Hip with Building Category III (I = 1.15), Mean Roof Height 20 ft, Overall Building Dimensions of 25 ft x 60 ft, Enclosure Class: Open, CC Zone Width 3.00 ft. The left end vertical has been exposed to wind. The right end vertical has been exposed to wind. This truss is an End Zone Truss. This truss is not in a Hurricane Prone Region.
3) This truss has been designed for the effects of balanced and unbalanced snow loads in accordance with ASCE7 - 02, using a ground snow load of 25 psf and terrain category C. The exposure condition is Partially Exposed. The thermal condition is All Others with building category III (I = 1.1). The roof ventilation is Unknown with Roof R-Value Unknown. The roof slope is 4 /12 and the surface type is All Others. This truss has not been designed to account for the effects of ice dams forming at the eaves.

Load Case Lr1: Std Live Load

Distributed Loads

Member	Location 1	Location 2	Direction	Spread	Start Load	End Load	Trib Width
Top	Cont		Down	Proj	25 psf	25 psf	24 in
Bot	Cont		Down	Proj	0 psf	0 psf	24 in

Load Case D1: Std Dead Load

Distributed Loads

Member	Location 1	Location 2	Direction	Spread	Start Load	End Load	Trib Width
Top	Cont		Down	Rake	16 psf	16 psf	24 in
Bot	Cont		Down	Rake	15 psf	15 psf	24 in
Top	0-0-0	6-0-0	Down	Rake	50 psf	50 psf	12 in
Top	16-3-0	22-3-0	Down	Rake	50 psf	50 psf	12 in
Top	6-0-0	16-3-0	Down	Rake	20 psf	20 psf	12 in

Point Loads

Member	Location	Direction	Load	Trib Width
Top	6-0-0	Down	500 lbs	
Top	16-3-0	Down	500 lbs	

Member Forces Summary

Table indicates: Member ID, max CSI, max axial force, (max compr. force if different from max axial force)

TChd	1-2	0.837	-2,313 lbs		3-4	0.901	-3,979 lbs		5-6	0.788	-3,916 lbs				
	2-3	0.788	-3,916 lbs		4-5	0.901	-3,979 lbs		6-7	0.837	-2,313 lbs				
BChd	8-9	0.163	29 lbs	(-5 lbs)	10-11	0.567	3,811 lbs	(-576 lbs)	12-13	0.579	2,347 lbs	(-473 lbs)			
	9-10	0.576	2,347 lbs	(-433 lbs)	11-12	0.576	3,811 lbs	(-599 lbs)	13-14	0.163	48 lbs	(-42 lbs)			
Webs	1-14	0.191	-2,211 lbs		2-12	0.328	1,770 lbs	(-270 lbs)	5-11	0.084	-206 lbs		7-9	0.501	2,701 lbs	(-588 lbs)
	14-15	0.173	-2,200 lbs		3-12	0.287	-1,082 lbs		5-10	0.287	-1,082 lbs		7-8	0.191	-2,211 lbs	
	1-13	0.501	2,701 lbs	(-564 lbs)	3-11	0.084	-206 lbs		6-10	0.328	1,770 lbs	(-290 lbs)	8-16	0.173	-2,200 lbs	
	2-13	0.542	-2,109 lbs		4-11	0.372	2,006 lbs	(-521 lbs)	6-9	0.542	-2,109 lbs					

Additional Notes:

The end of every chord segment shall be braced laterally perpendicular to the plane of the truss. Lateral braces shall be installed within 6" of the end of each chord segment.
At least one web of this truss has been designed with a panel point in the web. All panel points on such webs shall be braced laterally perpendicular to the plane of the truss. Lateral braces shall be installed within 6" of each web panel point.

ALL GENERAL NOTES OF THIS DRAWING PACKAGE SHALL BE CONSIDERED AS AN INTEGRAL PART OF THIS COMPONENT DESIGN DOCUMENT. NOTE THAT THE PROFESSIONAL ENGINEER'S SEAL INDICATES ONLY THAT THE TRUSS ASSEMBLY SHOWN ON THIS SHEET MEETS THE MINIMUM APPLICABLE DESIGN CRITERIA FOR THE LOADS, LOADING CONDITIONS, TRUSS MEMBER CONFIGURATIONS, AND SPANS LISTED ON THIS SHEET.

Keymark Engineering, Inc.
6707 Winchester Cricle, Suite 102
Boulder, Colorado 80301