Connection	Section	Length	Axial	Int.	Fastener	Pa	Req.
BC #1	250S162-68(50)	9.79	6.05C	0.67	#10 Drivall	0.000	0
TC #1	250S162-68(50)	9.79	2.85C	0.84	#10 Drivall	0.000	0
Web # 1 6	250S162-54(50)	1.42	3.82T	0.96	#10 Drivall	0.364	11
Web # 2 5	250S162-54(50)	1.64	3.17T	0.82	#10 Drivall	0.373	9
Web # 3 4	250S162-54(50)	1.64	3.47C	0.60	#10 Drivall	0.368	10
Web Stiffener (ws)	250T125-33(33)	0.19	1.69C	0.46	#10 Drivall	0.186	9
BC Lateral Brace	250S162-43(33)	6.00	0.64C	0.43	#10 Drivall	0.345	2
BC Diagonal Brace	250S162-43(33)	7.81	0.83C	0.86	#10 Drivall	0.345	3

Connection	Simpson	each	Load	Uplift/Shea	Fastener	Pa	Req.
Truss Chord	L-2x3x3x0.12	1	0.51		#10 Drivall	0.444	4
Steel Beam				0.51	EDNI 19P8	0.455	2
Truss Chord	L-2x3x3x0.12	1	0.51		#10 Drivall	0.444	4
Steel Beam				0.51	EDNI 19P8	0.455	2

GENERAL NOTES

1. Trusses require lateral bracing. See Truss Layout and Detail sheets.
2. Top Chord continuously sheathed.
3. Number of fasteners noted in chart installed on each end of Web
4. Allowable fastener values based on LGSEA Research Note No. 1-00 and Grabber Chart.
5. (ws) denotes web stiffener required at support.
6. Member design based on sections in SSMA-RCD Library.

Maximum Deflections

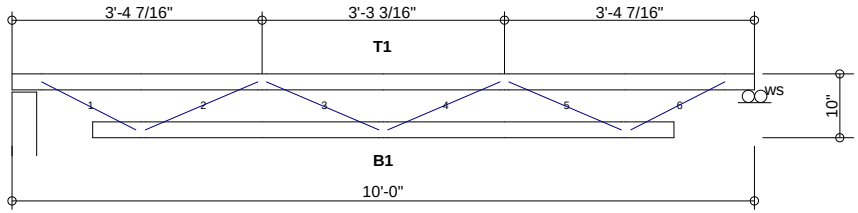
Vertical	0.256 in	(L / 469)
Horizontal	0.036 in	
Vertical	0.083 in	(L / 1447) [Dead Load Only]
Vertical	0.171 in	(L / 702) [Live Load Only]

Support Reactions	Down	Uplift*	Horizontal	Bearing
Left	1.69 {1.69}	-0.51 [-0.82]	0.00	4.00
Right	1.69 {1.69}	-0.51 [-0.82]	0.00	4.00

* Uplift Load Combination (Truss to Support Connection Only): 0.6Dead + 1.0Wind
{ } Denotes 'Dead+Live Only'
[ ] Denotes 'Wind Only' Uplift Reaction

DESIGN DATA

Number of Trusses = 10 each
Plate Style : Out-Of-Plane
Eave Height : 10.00 ft (top of wall)
Bearing : 4 in
Spacing : 6.00 ft
Dead Load : 10.00 psf (top chord)
Dead Load : 10.00 psf (bottom chord)
Live Load : 40.00 psf (top chord)
Live Load : 0.00 psf (bottom chord)
Snow Load : 43.00 psf (ground)
Snow Load : 30.10 psf (design) [Is =1.00, Ce = 1.00]
Wind Load : 14.96 psf (design) [Iw = 1.00]
Wind Speed : 90 mph (Exposure C)
Open Category: E
Topography (Kz):1
Building Category: (2) General
Seismic Coefficient: 0.044



Per AISI S100-2007		Actual			Allowable			
Member	Section	Po	Vo	Mo	Pa	Va	Ma	Ratio
Bottom Chord	1-250S162-68(50)	6.05T	0.00	2.58	14.17	2.90	10.69	0.67
Top Chord	1-250S162-68(50)	2.85C	0.01	6.58	12.76	2.90	10.69	0.84
Web	1-250S162-54(50)	1.02T	0.00	5.81	10.72	2.33	8.62	0.96

International Building Code 2009: PASSED
Design Method - (ASD)
Component Wind Pressure Design (End)

Rusk Component and Design
11357 Billings Ave
Lafayette, CO 80026
(303) 828-5747

Bar Joist Equivalent

Lafayette, CO

Truss D&E, V23.05
Date: 10-06-2013
Time: 10:11
Designer: BJR
File: BJK10-72-10
Job Number: BarJoist

BJK10-72-10

Design Dwg 1/1