

SO No.: 115231

Subject: VDOT BRIDGE RATING

BRIDGE NO. 1005 - 1 SPAN TRUSS

TRUSS SPLICE ANALYSIS - RATING SUMMARY

Computed By: DLN Date: 4/3/2009 Checked By: MKB Date: 4/6/2009



J:\DESIGN\VDOT Pilot Project\VDOT Trusses\1005 Gooney Cr\Gusset PL Analysis\1005 Gusset Plate Rating Summary 040609.xls\Rating Summary

GUSSET PLATE RATING SUMMARY

The controlling ratings for each gusset plate of interest is summarized below with the overall controlling gusset plate noted. This rating will need to be compared to the superstructure rating(s).

Summary of Controlling Gusset Plate Ratings

Truss Standard: SC24-75

Panel Point	Gusset Plate Rating Summary				Comments	Member Rating Summary				Comments
	Inventory		Operating			Inventory		Operating		
	Rating	Tons	Rating	Tons		Rating	Tons	Rating	Tons	
L0	0.68	24.36	1.13	40.67	Member 5 controlled the rating of the gusset plate	0.68	24.36	1.13	40.67	Member 5 controlled the rating of the truss members
L1	1.13	40.78	1.89	68.07	Member 2 controlled the rating of the gusset plate	1.38	49.5	2.3	82.63	Member 4 controlled the rating of the truss members
L2	0.61	22.04	1.02	36.79	Member 1 controlled the rating of the gusset plate	0.61	22.04	1.02	36.79	Member 1 controlled the rating of the truss members
* U1	0.61	22.04	1.02	36.79	Member 1 controlled the rating of the gusset plate	0.61	22.04	1.02	36.79	Member 1 controlled the rating of the truss members
U2	1.25	45.12	2.09	75.32	Member 1 controlled the rating of the gusset plate	1.25	45.12	2.09	75.32	Member 1 controlled the rating of the truss members

* Indicates the controlling Gusset Plate

Gusset Plate L2 control: the rating of all gusset plates for the subject truss