



**DEAD LOAD DEFLECTION DIAGRAM**

- NOTES:  
 1. ENCIRCLED NUMBERS INDICATE ANTICIPATED DEFLECTION DUE TO CONCRETE ONLY.  
 2. DEFLECTIONS ARE IN INCHES.

		MOMENT - foot-kips						REACTION - kips					
LOAD NAME	LOAD - k/ft	POSITIVE MOMENT				NEGATIVE MOMENT		REACTION					
		INTERIOR	EXTERIOR	0.4 PT. END SPAN	0.5 PT. CENTER SPAN	PIER	PIER	ABUTMENT	ABUTMENT	PIER	PIER		
D.L. NO. 1	0.74*	0.72*	91	88	129	121	152	160	7	7	25	25	
D.L. NO. 2	0.29	0.29											
LIVE LOAD + IMPACT HS20-44 DISTRIBUTION FACTOR	TRUCK	MOMENT	MOMENT										
		1.35	1.27	661	617	786	721	-	-	58	49	-	-
		REACTION	REACTION										
		1.65	1.05	-	-	-	-	436	431	-	-	69	65
TOTAL	-	-	-	-	-	-	-	1129	1120	86	77	171	165

\* LOAD VALUES DO NOT INCLUDE GIRDER WEIGHT.  
 MOMENT AND REACTION VALUES DO INCLUDE GIRDER WEIGHT.  
 MOMENTS AND REACTIONS SHOWN ARE UNFACTORED.

LATEST REVISION DATE 07-06 APPROVED BY BRIDGE ENGINEER <i>Norman E. Mc Donald</i>		
	STANDARD DESIGN - 40' ROADWAY, 3 SPAN BRIDGES <b>ROLLED STEEL BEAM BRIDGES</b> FEBRUARY, 2004	
	BEAM DEFLECTIONS 220'-0 BRIDGE	RS40-49-04

REVISION - 07-06 - ADDED DISTRIBUTION FACTOR TERM TO TABLE.