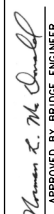



DEAD LOAD DEFLECTION DIAGRAM

- 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					
		0.4 PT. END SPAN		0.5 PT. CENTER SPAN		PIER	PIER	ABUTMENT	ABUTMENT	PIER	PIER		
		INTERIOR	EXTERIOR	INTERIOR	EXTERIOR	INTERIOR	EXTERIOR	INTERIOR	EXTERIOR	INTERIOR	EXTERIOR		
DC1	0.74*	0.72*	322	301	401	374	698	653	26	24	90	85	
DC2	0.14	0.14	53	52	75	74	89	90	4	4	13	13	
DW	0.15	0.15	55	55	78	77	93	93	4	4	14	14	
LIVE LOAD + IMPACT HL-93	DISTRIBUTION FACTOR	MOMENT	MOMENT	943	1035	1077	1277	735	847	79	70	128	113
		0.620	0.681										
		REACTION	REACTION	-	-	-	-	-	-	-	-	-	-
TOTAL				-	-	-	-	1615	1683	113	102	245	225

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

LATEST REVISION DATE	 APPROVED BY BRIDGE ENGINEER	 Iowa Department of Transportation Highway Division	
		STANDARD DESIGN - 40' ROADWAY, 3 SPAN BRIDGES ROLLED STEEL BEAM BRIDGES JUNE, 2010	
		BEAM DEFLECTIONS 240'-0 BRIDGE	RS40-065-10