



### DEAD LOAD DEFLECTION DIAGRAM

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

		MOMENT - foot-kips		MOMENT AND REACTION TABLE								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		PIER					
		INTERIOR	EXTERIOR	INTERIOR	EXTERIOR	INTERIOR	EXTERIOR	INTERIOR	EXTERIOR	INTERIOR	EXTERIOR	INTERIOR	EXTERIOR		
DC1	0.74*	0.72*	542	511	606	567	1189	1117	35	33	121	114			
DC2	0.14	0.14	79	78	107	106	148	149	5	5	17	17			
DW	0.15	0.15	82	82	112	111	155	156	5	5	17	17			
LIVE LOAD + IMPACT HL-93	DISTRIBUTION FACTOR	MOMENT	MOMENT												
		0.609	0.681	1272	1420	1370	1669	1083	1269	-	-	-	-		
		REACTION	REACTION												
		0.772	0.681	-	-	-	-	-	-	86	76	154	135		
TOTAL				-	-	-	-	2575	2691	131	119	309	283		

\* 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	 STANDARD DESIGN - 40' ROADWAY, 3 SPAN BRIDGES <b>ROLLED STEEL BEAM BRIDGES</b> OCTOBER, 2014
		<table border="1" style="width: 100%;"> <tr> <td style="text-align: center;"><b>BEAM DEFLECTIONS 300'-0 BRIDGE</b></td> <td style="text-align: center;"><b>RS40-068-14</b></td> </tr> </table>
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