

01005 - 1 SPAN STEEL PONY TRUSS WITH 3 SIMPLE SPAN CONCRETE TEE BEAM APPROACHES

ASSUMPTIONS:

1. Based on year built, 1936 (AASHTO Manual for Condition Evaluation of Bridges):
 - a. Steel reinforcing yield point = 33 ksi
 - b. Structural steel yield point = 30 ksi
 - c. Concrete compressive strength = 2.5 ksi
2. Sacrificial wear thickness = 0.5" for spans 1, 2, and 4 AS-BUILT condition.
3. Wearing surface thickness = 1.25" after 0.5" scarifying of deck for spans 1, 2, and 4 IR032007 condition.
4. Wearing surface thickness = 1.625" for span 3 IR032007 condition.
5. Assumed 4" x 3/8" tubes for the railing on Span 2.
6. IR032007 Deterioration (See calcs. for further loss description):

SPAN	TRUSS	MEMBER	LOSS DESCRIPTION
3	LEFT	L0 – L1	CROSS SECTIONAL AREA REDUCED FROM 10.62 IN ² TO 10.11 IN ²
3	LEFT	L1 – L2, L3 – L4, L4 – L5	CROSS SECTIONAL AREA REDUCED FROM 10.62 IN ² TO 8.64 IN ²
3	RIGHT	L0 – L1	CROSS SECTIONAL AREA REDUCED FROM 10.62 IN ² TO 9.28 IN ²
3	RIGHT	L2 – L3	CROSS SECTIONAL AREA REDUCED FROM 14.44 IN ² TO 11.69 IN ²
3	RIGHT	L4 – L5	CROSS SECTIONAL AREA REDUCED FROM 10.62 IN ² TO 8.57 IN ²
3	LEFT	L0 – U1	RIGHT CHANNEL WEB THICKNESS REDUCED 50% BASED ON PICTURES ON PAGE 11 OF INSPECTION REPORT