

NBI Visual Inspection

Bridge Number: 3838 Inspection Date: 8/26/2014
 Bridge Name: West Approach Team Leader: Benny D'Artista, P.E.
 Town/City: Bath Team Member: Kevin Brayley

Bridge Notes:

Orientated south-north. 12 spans multi reinforced concrete beams and 8 spans multi steel beams. Reinforced concrete substructure. Spans and piers numbered south-north. Beams numbered west-east.

Inspection Notes:

General Condition:

ACTION REQUIRED: Suggest hands-on inspection of entire structure with focus on concrete deterioration above traffic/pedestrian areas, railing collision damage, pier cap deficiencies and steel beam ends. **Repair rail posts with collision damage and lighting standard on southwest wingwall. Consideration for possible rehab (redecking/substructure repairs/steel beam ends).**

Item 58 - Deck:

Condition Coding: 4

DECK: Underside with numerous areas of extensive map cracking, dampness, efflorescence, rust staining and spalls with exposed reinforcement. Spalls extend up to 4' long x full bay width x 3" deep. Portions of spans 13-17 with timber shielding. 18" long x 2' wide delamination in span 18 center bay above sidewalk. **RAILING:** Isolated rail posts for both railings with moderate to severe collision damage (flange loss /cracked base/sheared anchor bolts) in spans 9, 10, 16, 18 and 19, one post of span 18 west railing with 3 anchor bolts sheared and adjacent rail sections loose. **JOINTS:** Present/past leakage at all joints. Seals dislodged and torn at piers 3, 6, 9 and 12. Piers 13, 15, 17 and 19 with delamination of outer seal layer. Pier 15 west curb plate detached. Headers in spans 13-20 with advanced underside spalling with exposed reinforcement. **LIGHTING:** Standard on southwest wingwall with numerous cracks in base due to collision damage. Span 6 east standard missing access cover exposing wires. Span 19 west standard with moderate collision damage. **DRAINAGE:** Isolated grates with missing bars/completely clogged. Downspouts and pipes with advanced deterioration including 100% loss/top half cut off, some draining on substructure. **WEARING SURFACE:** Up to 1/16" map cracking. **CURBS:** Scattered moderate corner spalls with exposed reinforcement. Face with moderate cracking throughout. **APPROACHES:** Northeast guardrail with moderate collision damage. Southeast guardrail with 1 post cracked at base due to collision damage.

Item 59 - Superstructure:

Condition Coding: 5

CONCRETE BEAMS: Timber blocking for beams at pier 3. **STEEL BEAMS:** Ends with heavy rust and apparent moderate section loss extending full height/width. Timber blocking in span 19 bay 3 at pier 18. **BEARINGS:** Moderate rust. Isolated rocker bearings with missing keeper plate.

Item 60 - Substructure:

Condition Coding: 4

PIER CAPS: Piers 3, 9, 13, 15, 16, 17 & 19 with most of length x up to full height x 6" deep spalling with exposed/debonded reinforcement on one/both faces, reinforcement with advanced section loss. Caps 6, 12 and 18 less severe condition. **PIER STEMS:** Isolated 1/8" wide vertical cracks. Pier 9 with 2 areas of up to 3' long x 3' high x 5" deep spalls with exposed reinforcement. Pier 15 south face and pier 17 north face with full height x up to full width delamination with 3" deep spalls. **BREASTWALLS:** 1/32" wide cracks with rust staining/efflorescence and surrounding up to 12" long delamination.

Item 61 - Channel:

Condition Coding: N

Item 62 - Culvert:

Condition Coding: N