

Inspector:

Structure Number: 03447

Inspection Date:

Facility Carried: SH 28-Scott Co.

## Bridge Inspection Report

## Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
<b>12 - Reinforced Concrete Deck</b>	1- Ben.	13368	sq. ft.	6686	3023	3659	0
	-Numerous delamination's and spalls with exposed reinforcing steel and failing concrete repairs. -Heavy scale in the gutters. -Transverse cracking at approximately 12" centers with isolated areas of exposed reinforcing steel with initial section loss. -Concrete deterioration in the curbs. -Span 2 adjacent to Beam 5 has an area of spalling with exposed reinforcing steel at the deck drain. -Numerous areas of scale visible from the undersurface of the deck and overhangs. Most extreme case is the Right overhang of Span 4. -Span 4 Right lane on the driving surface of the deck has previous patched area that is over a spalled area with exposed reinforcing steel visible from the undersurface. Possible full depth failure forming. -Span # 4 has an approximately 7' long area of concrete deterioration adjacent to the deck drain on the right side of Beam # 5 that exposes reinforcing steel with active corrosion and initial section loss. -Exposed reinforcing steel in undersurface of Span 4 between Beams 4 and 5. -Span 7 has areas of light scaling visible on the undersurface of the deck in Bays 1 & 4. -Span 8, Bay 3 has a 3' long delaminated area on the undersurface of the deck.						
1080 - Delamination/Spall/Patched Area		3794		0	1948	1846	0
1090 - Exposed Rebar		202		0	0	202	0
1120 - Efflorescence/Rust Staining		13		0	13	0	0
1130 - Cracking (RC and Other)		1062		0	1062	0	0
1190 - Abrasion/Wear (PSC/RC)		1611		0	0	1611	0
<b>107 - Steel Open Girder/Beam</b>	1- Ben.	2785	ft.	2547	0	238	0
	-Superstructure has isolated areas of active corrosion at the ends of beams. -Some areas have flaking rust. -Most extreme case is the top flange of Beam 5 in Span 2 adjacent to the deck drain. Top flange has approx. 3/16" section loss with flaking rust at this inspection.						
1000 - Corrosion		238		0	0	238	0
515 - Steel Protective Coating		18800	sq. ft.	17318	0	1482	0
3440 - Effectiveness (Steel Protective Coatings)		1482		0	0	1482	0

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<b>205 - Reinforced Concrete Column</b>	1- Ben.	12	each	1	1	10	0
-Bent 2 has a 4' vertical spall in the Left column that has been covered with caulking as a type of repair. Concrete is delaminated adjacent to the caulked repair. -Bent 3 has a 6' vertical delaminated area with spalls in the Right column that has been covered with caulking as a type of repair. The left column has vertical cracking. -Bent 4 has vertical cracks with spalls that have exposed reinforcing steel in both columns. -Bent 5 has a 4' vertical crack with a 10" spall with exposed reinforcing steel in the Right column. The left column has vertical cracking on the left edge. -Bent 5 has a 4' vertical crack in the Left column. -Bent 7, Column 1 has two 24" horizontal spalls with exposed reinforcing steel located approximately 12' below the base of cap in the Lt column. -Bent 7, Column 2 has a vertical crack on the Inlet side and light cracking at the base of the cap. -Bent 8, Column 1 has vertical cracking and there is one 12" spall with exposed reinforcing steel at the water elevation. -Reinforcing steel that is exposed in the columns has section loss that ranges from initial to approximately 1/8" section loss with active corrosion.							
1080 - Delamination/Spall/Patched Area		1		0	1	0	0
1090 - Exposed Rebar		6		0	0	6	0
1130 - Cracking (RC and Other)		4		0	0	4	0
<b>210 - Reinforced Concrete Pier Wall</b>	1- Ben.	73	ft.	44	29	0	0
-Bent # 6 has a horizontal crack located approximately 6" below the top of the pier wall. The left side of the pier has light vertical cracking. -Bent # 9 has vertical cracks and light map cracking on the right end of the pier wall.							
1130 - Cracking (RC and Other)		29		0	29	0	0
<b>215 - Reinforced Concrete Abutment</b>	1- Ben.	67	ft.	45	9	13	0
-Bent 1 has areas of shallow honeycombing from the construction process. -Erosion and earth settlement that exposed the steel piling still exist at the East abutment (Bent # 10) left half of the abutment. -Vertical cracks typical at the abutments.							
1080 - Delamination/Spall/Patched Area		6		0	6	0	0
1130 - Cracking (RC and Other)		3		0	3	0	0
4000 - Settlement		13		0	0	13	0
<b>225 - Steel Pile</b>	1- Ben.	3	each	0	0	3	0
-Bent # 10 has 3 exposed steel H-Piles exposed on the left half of the abutment, these piles have active corrosion, layers of flaking rust and initial section loss where exposed.							
1000 - Corrosion		3		0	0	3	0

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<b>234 - Reinforced Concrete Pier Cap</b>	1- Ben.	204	ft.	137	43	24	0
-Bent 2 has a 10' horizontal crack located approx. 6" below the top of cap. -Bent 2 has a 2'x 2' spall with exposed reinforcing steel & delaminated areas in the Rt side of cap. The left side of the cap has shallow delamination' sand a spall that has been filled with caulking. -Bent 3 has a 16' horizontal crack located approx. 6" below the top of cap. -Bent 3 has three 12" spalls and delaminated areas in the cap. -The Lt end of Bent 4 has areas of spalling with exposed reinforcing steel. -The Rt half of Bent 4 has five 10" spalls with exposed reinforcing steel. The undersurface in the cantilevered portions have shallow placed exposed reinforcing steel. -Bent 5 has horizontal cracking approximately 6" below the top of the cap on the Span 4 side. -The Rt end of Bent 6 has a 2' spall with exposed reinforcing steel visible from the undersurface of the cap. -The Rt side of Bent 6 has diagonal hairline cracks. Map cracking is developing under Beam # 2 on the Span # 5 side of the cap. -Bent 7 has a softball size spall with exposed reinforcing steel under Beam 2 and one 18" spall with exposed reinforcing steel in the Lt underside side of cap. -Bent 8 has a horizontal hairline crack with efflorescence near the center of the cap. -Bent 8 has spalling with exposed reinforcing steel on the undersurface of the right side of the cap and on the Span 7 face approximately 3' from Column 2. -Bent 9 has two 12" spalls with exposed reinforcing steel under Beam 2 and 2 hairline vertical cracks under Bays 2 & 3.							
1080 - Delamination/Spall/Patched Area		7		0	5	2	0
1090 - Exposed Rebar		19		0	0	19	0
1130 - Cracking (RC and Other)		41		0	38	3	0
<b>305 - Assembly Joint without Seal</b>	1- Ben.	240	ft.	240	0	0	0
-The joints leak water on the caps. -The joints appear to be solidly anchored with shallow spalls and delaminations adjacent to the joints.							
<b>311 - Movable Bearing</b>	1- Ben.	45	each	0	0	45	0
-Bearings have active corrosion and layers of rust that have been sprayed with "Bridge Mate" as a type of repair.							
1000 - Corrosion		45		0	0	45	0
515 - Steel Protective Coating		45	sq. ft.	0	0	45	0
<b>313 - Fixed Bearing</b>	1- Ben.	45	each	0	0	45	0
-Bearings have active corrosion and layers of rust that have been sprayed with "Bridge Mate" as a type of repair.							
1000 - Corrosion		45		0	0	45	0
515 - Steel Protective Coating		45	sq. ft.	0	0	45	0
3440 - Effectiveness (Steel Protective Coatings)		45		0	0	45	0

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<b>330 - Metal Bridge Railing</b>	1- Ben.	1114	ft.	1114	0	0	0
-Galvanized metal rails with no apparent noteworthy problems.							
<b>331 - Reinforced Concrete Bridge Railing</b>	1- Ben.	1114	ft.	738	338	38	0
-Concrete bridge rails with concrete posts and metal rails. -Shallow concrete spalls in the concrete portions of the bridge rails. -Vertical cracks typical in the concrete portions of the bridge rails. -Concrete deterioration / scale in the curbs in Spans # 3 & 4.							
1080 - Delamination/Spall/Patched Area		43		0	11	32	0
1130 - Cracking (RC and Other)		333		0	327	6	0