

Washington Bridge South

Inspected By COLLINS

Inspector: SETH LEMOINE

020001

Inspection Date 07/24/2017

Bridge Condition Fair

IDENTIFICATION

Bridge ID: 020001

NBI Number Washington Bridge South
Structure Name: Washington Bridge South
Location (9): 1.0 Mi E of JCT I-95 &195

Carries (7): I-195 EB and WB

Type of Service (42A): 1 Highway

Feature Crossed (6): SEEKONK RVR & STS

Type of Service (42B): 6 Highway-waterway

Placecode (4): East Providence

County (3): Providence

State (1): 44 Rhode Island

Station: NBI

 Region (2):
 District 3

 Latitude (16):
 41.8190048

 Longitude (17):
 -71.3868191

Owner (22): 01 State Highway Agency
Custodian (21): 01 State Highway Agency

Year Built (27): 1930

Year Recon (106): 2008 Historical (37): 5 Not eligible for NRHP

tate Highway Agency

Border State: Not Applicable (P)

Border Number:

HP % Responsibility:

INSPECTION

 Date of Routine Inspection (90):
 7/24/2017

 Frequency (91):
 24

 Next Inspection:
 7/24/2019

LOAD RATING AND POSTING

Posting Status (41) A Open, no restriction
Posting % (70): 5 At/Above Legal Loads

Rating Date: 3/27/2024

Design Load (31): 9 MS22.5(HS25)or greater

 Opr Method (63):
 8 LRFR (HL93)

 Opr Rating (64):
 31.70 Tons

	Inspection Type	Freq (92)	Last Insp (93)	Next Insp
	투(후 Renting (66):	24 ₂ 540 To	ons 7/24/2017	7/24/2019
	Complex Feat	ure B.IR.0	: N ^{1/1/1901}	1/1/1901
	Underwater (B)	48	7/24/2017	7/24/2021
J	Special Insp (C)	TM B.IR.0	4: N _{1/1/1901}	1/1/1901

DECK GEOMETRY

Deck Geometry (68): 4 Tolerable
Deck Area: 119,461.50

Deck Type (107): 1 Concrete-Cast-in-Place
Wearing Surface (108A): 1 Monolithic Concrete

Membrane (108B): 0 None

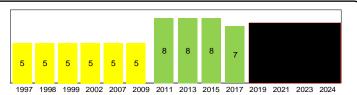
Deck Protection (108C): 1 Epoxy Coated Reinforci

O. to O. Width (52): 71.50

Curb / Sidewalk Width L (50A): 0.00

Curb / Sidewalk Width R (50B): 0.00

Median (33): 0 No median



DECK CONDITION

Deck Rating (58): 7 Good

Bridge Rail (36A):

Transition (36B):

Approach Rail (36C):

Approach Rail Ends (36D):

1 Meets Standards
1 Meets Standards
1 Meets Standards

SUPERSTRUCTURE GEOMETRY

of Main Spans (45): 14 # of Approach Spans (46): 0

Main Material (43 A): 4 Steel Continuous

Main Design (43 B): 02 Stringer/Girder

Max Span Length (48): 160.37

Structure Length (49): 1,670.79

NBIS Length (112): Long Enough

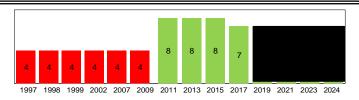
Temp Structure (103): Not Applicable (P)

Skew (34):

Structure Flared (35): 1 Yes, flared

Parallel Structure (101): Right of || bridge

Approach Alignment (72): 6 Equal Min Criteria



SUPERSTRUCTURE CONDITION

Superstructure Rating (59): 7 Good

Structure Evaluation (67): 6 Equal Min Criteria



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SUBSTRUCTURE GEOMETRY Navigation Control (38): Permit Required

Nav Vert Clearance (39): 134.52 Nav Horiz Clearance (40): 321.85

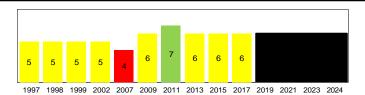
Pier Protection (111): 2 In-Place, Functioning

Lift Bridge Vertical

Clearance (116):

Scour Rating (113): 3 SC - Unstable

9 Above Desirable Waterway Adequacy (71):



SUBSTRUCTURE CONDITION

Substructure Rating (60): 6 Satisfactory

Channel Rating (61): 6 Bank Slumping

1ST ROUTE UNDER: Gano Street

ROADWAY LOCATION

Pos Prefix (5A): 1st Route Under Kind of Hwy (5B): 5 City Street

Route Num (5D): LRS Route (13A/B):

Milepost (11):

Suffix (5E): 0 N/A (NBI)

Lanes Under (28B): 2

Detour Length (19): 0.00 mi (0.00 km) ROADWAY CLASSIFICATION

Funct Class (26): 17 Urban Collector Level Service (5C): 1 Mainline

0 Not on NHS NHS (104):

0 Not a STRAHNET hwy Defense Hwy (100): 3 On free road Toll Facility (20):

ADT (29): 81,000 Cars/Day 13.00% Pct Trucks (109):

ADT Year (30): 2021 **CLEARANCES**

Vertical (10): 26.58 Min Vert Over (53): 17.00 20.45

Vert Ref (54A): H Hwy beneath struct

89.00 Horizontal (47): Min Lat Left (56): 0.00 Min Lat Right (55B): 14.50

H Hwy beneath struct Horiz Ref (55A): Underclearance (69): 9 Above Desirable

2ND ROUTE UNDER: Water Street

ROADWAY LOCATION

2nd Route Under Pos Prefix (5A):

Kind of Hwy (5B): 5 City Street

Route Num (5D): LRS Route (13A/B):

Milepost (11):

Suffix (5E): 0 N/A (NBI)

Lanes Under (28B):

Detour Length (19): 0.00 mi (0.00 km) ROADWAY CLASSIFICATION

Funct Class (26): 19 Urban Local Level Service (5C): 1 Mainline NHS (104): 0 Not on NHS

0 Not a STRAHNET hwy Defense Hwy (100):

Toll Facility (20): 3 On free road ADT (29): 81,000 Cars/Day

ADT Year (30): 2021

Pct Trucks (109):

CLEARANCES

Vertical (10): 27.79

Min Vert Over (53): 17.00 20.45

Vert Ref (54A): H Hwy beneath struct

Horizontal (47): 27.50 Min Lat Left (56): 0.00 Min Lat Right (55B): 14.50

H Hwy beneath struct Horiz Ref (55A): Underclearance (69): 9 Above Desirable

3RD ROUTE UNDER: Waterfront Drive

ROADWAY LOCATION

Pos Prefix (5A): 3rd Route Under Kind of Hwy (5B): 5 City Street

Route Num (5D): 0

Milepost (11):

LRS Route (13A/B):

Suffix (5E): 0 N/A (NBI)

Lanes Under (28B):

Detour Length (19): 0.00 mi (0.00 km) **ROADWAY CLASSIFICATION**

13.00%

Funct Class (26): 19 Urban Local Level Service (5C): 2 Alternate NHS (104): 0 Not on NHS

0 Not a STRAHNET hwy Defense Hwy (100):

Toll Facility (20): 3 On free road ADT (29): 81,000 Cars/Day

Pct Trucks (109): 13.00% ADT Year (30): 2021

CLEARANCES

Vertical (10): 20.83

Min Vert Over (53): 17.00 20.45

H Hwy beneath struct Vert Ref (54A):

Horizontal (47): 35.50 Min Lat Left (56): 0.00 Min Lat Right (55B): 14.50

Horiz Ref (55A): H Hwy beneath struct Underclearance (69): 9 Above Desirable



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ROUTE ON STRUC	TURE: I-195 EB an	d WB			
ROADWAY	LOCATION	ROADWAY	CLASSIFICATION	CLEA	ARANCES
Pos Prefix (5A): Kind of Hwy (5B):	Route On Structure 1 Interstate Hwy	Funct Class (26): Level Service (5C):	11 Urban Interstate 1 Mainline	Vertical (10): Min Vert Over (53):	99.99 17.00 20.4
Route Num (5D):	00195	NHS (104):	1 On the NHS	Vert Ref (54A):	H Hwy beneath struct
LRS Route (13A/B):	40068660A/00	Defense Hwy (100):	1 On Interstate STRAHNET	Horizontal (47):	83.80
Milepost (11): Suffix (5E):	0.80 mi (1.29 km) 2 East	Toll Facility (20): ADT (29):	3 On free road 120,000 Cars/Day	Min Lat Left (56): Min Lat Right (55B):	0.00 14.50
Lanes On (28A):	5	Pct Trucks (109):	13.00%	Horiz Ref (55A):	H Hwy beneath struct
Detour Length (19):	1.90 mi (3.06 km)	ADT Year (30):	2021	Underclearance (69): 9 Above Desirable

BRIDGE NOTES

ORIENTATION: The Bridge runs west to east, with the spans and piers numbered from west to east and girders labeled A through J from north to south in each span. At the Southeast corner of Span 14, there are two (2) additional kicker beams labeled Kicker Beams K and L that support the Exit 1 B-C ramp. The interior diaphragms are numbered from west to east in each span.

EQUIPMENT REQUIRED: 60' Manlift, Light Tower, Barge with 85' Manlift for spans over water, Local Police, State Police, Traffic Control and Crash Truck.

TRAFFIC CONTROL INFORMATION: Need traffic control for work in Span 1 over Gano Street, Span 14 over Waterfront Drive and Water Street and for the topside inspection. Due to the current traffic restrictions associated with the Washington Street Bridge (I-195 WB), all work requiring traffic control was performed at night to reduce the impact to the traveling public.

POLICE DETAIL NEEDED: Need Local Police detail for work in Span 1 over Gano Street and in Span 14 over Waterfront Drive. Need State Police for the topside inspection.

TEMPORARY MEDIAN BARRIER: At the time of this inspection, there was a temporary steel median barrier separating the eastbound and westbound traffic on the bridge. The barrier had no defects noted.

INSPECTION NOTES



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Inspection Dates:

06/19/17 – 07/24/17 (Abovewater) 06/8/2017 – 06/12/2017 (Underwater)

Crew Chief / Dive Supervisor: Seth Lemoine, P.E. (Abovewater & Underwater)

Staff Inspectors: James Karalekas Jr., P.E., Robert Snelgrove, P.E., Matthew Liguore, Curtis Cheney, Juan

Quintero

Divers: Seth Lemoine, P.E., James Karalekas Jr., P.E., Robert Snelgrove, P.E., Matthew Liguore, Curtis Cheney

Weather: Varied, 55°F - 90°F

Deflection and Vibration - No unusual deflection or vibration was noted.

Underbridge Lights – There are four (4) lights over Waterfront Drive which were on during the inspection and two (2) lights over Water Street which were off during the inspection. The electrical conduit under Beam "I" in Span #14, is missing an attachment bracket.

Light Standards – There are ten (10) lights spaced evenly along the north side and south side of the bridge, respectively. The lights were not on at the time of the inspection and it is unknown if they function.

Vertical Clearances - The minimum vertical clearances are as follows:

In Span #1 over Gano Street the minimum vertical clearance was measured at 26'-6" at the roadway centerline under Girder "J". The posted clearance sign on Girder "J" reads 26'-1" (See Photo No. 63).

In Span #14 over Water Street the minimum vertical clearance was measured at 27'-2" at the east roadway shoulder under Girder "J" and the posted clearance sign on Girder "J" reads 27'-2" (See Photo No. 64).

In Span #14 over Waterfront Drive the minimum vertical clearance was measured at 20'-10" at the left (east) curb, left (east) shoulder and the roadway centerline under Girder "J" and the same measurement was taken from the bottom of the underbridge light at the right (west) shoulder adjacent to Girder "I. There are no posted clearance signs for Waterfront Drive under Span #14.

Curb Reveal – The average curb reveal was measured at 3-1/2" along the south side of the bridge. Safe access to the north curb was not available as a result of lane closure restrictions.

Underwater Inspection Notes:

Fender System – There is a timber fender system in place along the east side of Pier #6 and the west side of Pier #7. The timber fender system members exhibit minor splits and checking along with damaged or missing handrails (See Photo Nos. 27 thru 30). The dolphin pile groups at the south (downstream) end of the fenders have recently been replaced and have no significant defects.

Navigational Lighting – The navigational lighting system in place exhibits no significant deficiencies, however the lights were not on at the time of the inspection (See Photo Nos. 27 thru 30).

Channel Debris – There are no obstructions or debris accumulation which would affect the hydraulic opening at the bridge.



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Deck (Rating = 7) – The top of the reinforced concrete deck is bare, with no protective wearing surface. The top of the deck has transverse hairline cracks spaced approximately 2' to 3' apart and moderate wear (See Photo Nos. 13). The deck underside is concealed from view with stay in-place steel forms in all bays except Bay "G". The exposed deck in Bay "G" has transverse hairline cracks spaced approximately 3' to 6' apart with and without efflorescence (See Photo No. 56).

Superstructure (Rating = 7) – The superstructure consists of weathering steel plate girders continuous over all piers except Piers #4 and #9. There are locations of light laminar rust, bent bottom flanges, isolated locations of missing splice plate bolts and a bent splice plate (See Photo Nos. 15, 21, 27, 31, 32, 40, 45, 52 and 59).

For additional notes, see file entitled "020001_Additional_Brm_Inspection_Notes".

ELEMENT CONDITION SUMMARY

Elm/Env	Description	Total Qty	% in 1	Qty. St. 1	% in 2	Qty. St. 2	% in 3	Qty. St. 3	% in 4	Qty. St. 4
12/3	Re Concrete Deck	119,494.0	0%	1.00	100%	119,493.00	0%	0.00	0%	0.00
1080/3	Delamination/Spall/Patched Area	1.00	0%	0.00	100%	1.00	0%	0.00	0%	0.00
1120/3	Efflorescence/Rust Staining	1.00	0%	0.00	100%	1.00	0%	0.00	0%	0.00
1130/3	Cracking (RC and Other)	1.00	100%	1.00	0%	0.00	0%	0.00	0%	0.00
1190/3	Abrasion(PSC/RC)	119,491.00	0%	0.00	100%	119,491.00	0%	0.00	0%	0.00
8382/3	Stay-in-Place Form	97,500.00	96%	93,375.00	4%	4,125.00	0%	0.00	0%	0.00
107/3	Steel Opn Girder/Beam	16,674.00	100%	16,644.00	0%	24.00	0%	6.00	0%	0.00
515/3	Steel Protective Coating	251,200.00	98%	246,200.00	2%	5,000.00	0%	0.00	0%	0.00
1000/3	Corrosion	15.00	0%	0.00	100%	15.00	0%	0.00	0%	0.00
1020/3	Connection	12.00	0%	0.00	50%	6.00	50%	6.00	0%	0.00
7000/3	Damage	2.00	0%	0.00	100%	2.00	0%	0.00	0%	0.00
205/3	Re Conc Column	39.00	100%	39.00	0%	0.00	0%	0.00	0%	0.00
8368/3	Graffiti	1,190.00	100%	1,190.00	0%	0.00	0%	0.00	0%	0.00
210/3	Re Conc Pier Wall	587.00	50%	293.00	50%	292.00	0%	2.00	0%	0.00
1080/3	Delamination/Spall/Patched Area	3.00	0%	0.00	100%	3.00	0%	0.00	0%	0.00
1120/3	Efflorescence/Rust Staining	1.00	0%	0.00	100%	1.00	0%	0.00	0%	0.00
1130/3	Cracking (RC and Other)	472.00	62%	293.00	38%	179.00	0%	0.00	0%	0.00
1190/3	Abrasion(PSC/RC)	10.00	0%	0.00	80%	8.00	20%	2.00	0%	0.00
4000/3	Settlement	1.00	0%	0.00	100%	1.00	0%	0.00	0%	0.00
6000/3	Scour	100.00	0%	0.00	100%	100.00	0%	0.00	0%	0.00
8368/3	Graffiti	3,240.00	0%	0.00	100%	3,240.00	0%	0.00	0%	0.00
215/3	Re Conc Abutment	171.00	98%	168.00	2%	3.00	0%	0.00	0%	0.00
1080/3	Delamination/Spall/Patched Area	2.00	0%	0.00	100%	2.00	0%	0.00	0%	0.00
1120/3	Efflorescence/Rust Staining	1.00	0%	0.00	100%	1.00	0%	0.00	0%	0.00
1130/3	Cracking (RC and Other)	168.00	100%	168.00	0%	0.00	0%	0.00	0%	0.00
220/3	Re Conc Pile Cap/Ftg	218.00	99%	216.00	1%	2.00	0%	0.00	0%	0.00
1190/3	Abrasion(PSC/RC)	218.00	99%	216.00	1%	2.00	0%	0.00	0%	0.00
225/3	Steel Pile	6.00	100%	6.00	0%	0.00	0%	0.00	0%	0.00
1000/3	Corrosion	1.00	100%	1.00	0%	0.00	0%	0.00	0%	0.00
234/3	Re Conc Pier Cap	920.00	99%	909.00	1%	11.00	0%	0.00	0%	0.00
1080/3	Delamination/Spall/Patched Area	2.00	0%	0.00	100%	2.00	0%	0.00	0%	0.00
1120/3	Efflorescence/Rust Staining	1.00	0%	0.00	100%	1.00	0%	0.00	0%	0.00
1130/3	Cracking (RC and Other)	917.00	99%	909.00	1%	8.00	0%	0.00	0%	0.00
300/3	Strip Seal Exp Joint	68.00	0%	0.00	34%	23.00	66%	45.00	0%	0.00
2340/3	Seal Cracking	45.00	0%	0.00	0%	0.00	100%	45.00	0%	0.00



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Elm/Env	Description	Total Qty	% in 1	Qty. St. 1	% in 2	Qty. St. 2	% in 3	Qty. St. 3	% in 4	Qty. St. 4
2350/3	Debris Impaction	23.00	0%	0.00	100%	23.00	0%	0.00	0%	0.00
301/3	Pourable Joint Seal	161.00	100%	161.00	0%	0.00	0%	0.00	0%	0.00
303/3	Assem Jnt With Seal	220.00	0%	0.00	81%	178.00	0%	0.00	19%	42.00
2340/3	Seal Cracking	42.00	0%	0.00	0%	0.00	0%	0.00	100%	42.00
2350/3	Debris Impaction	178.00	0%	0.00	100%	178.00	0%	0.00	0%	0.00
321/3	Re Conc Approach Slab	2,212.00	26%	582.00	74%	1,630.00	0%	0.00	0%	0.00
510/3	Wearing Surfaces	782.00	62%	482.00	38%	300.00	0%	0.00	0%	0.00
3220/3	Crack (Wearing Surface)	170.00	0%	0.00	100%	170.00	0%	0.00	0%	0.00
1130/3	Cracking (RC and Other)	100.00	100%	100.00	0%	0.00	0%	0.00	0%	0.00
1190/3	Abrasion(PSC/RC)	1,160.00	0%	0.00	100%	1,160.00	0%	0.00	0%	0.00
331/3	Re Conc Bridge Railing	3,318.00	100%	3,317.00	0%	0.00	0%	1.00	0%	0.00
1130/3	Cracking (RC and Other)	3,309.00	100%	3,309.00	0%	0.00	0%	0.00	0%	0.00
7000/3	Damage	9.00	89%	8.00	0%	0.00	11%	1.00	0%	0.00
8060/3	Scupper	26.00	0%	0.00	85%	22.00	15%	4.00	0%	0.00
8213/3	R/C Return Wall	70.00	100%	70.00	0%	0.00	0%	0.00	0%	0.00
1130/3	Cracking (RC and Other)	70.00	100%	70.00	0%	0.00	0%	0.00	0%	0.00
8218/3	Backwall, All Types	171.00	98%	168.00	1%	1.00	1%	2.00	0%	0.00
1080/3	Delamination/Spall/Patched Area	2.00	0%	0.00	0%	0.00	100%	2.00	0%	0.00
1120/3	Efflorescence/Rust Staining	1.00	0%	0.00	100%	1.00	0%	0.00	0%	0.00
1130/3	Cracking (RC and Other)	168.00	100%	168.00	0%	0.00	0%	0.00	0%	0.00
8316/3	Isolation Bearing	172.00	36%	61.00	58%	99.00	7%	12.00	0%	0.00
1000/3	Corrosion	4.00	0%	0.00	100%	4.00	0%	0.00	0%	0.00
1020/3	Connection	57.00	0%	0.00	79%	45.00	21%	12.00	0%	0.00
2220/3	Alignment	8.00	0%	0.00	100%	8.00	0%	0.00	0%	0.00
2230/3	Bulging, Splitting or Tearing	2.00	0%	0.00	100%	2.00	0%	0.00	0%	0.00
2240/3	Loss of Bearing Area	40.00	0%	0.00	100%	40.00	0%	0.00	0%	0.00
8370/3	Steel Diaphragms	805.00	100%	804.00	0%	1.00	0%	0.00	0%	0.00
515/3	Steel Protective Coating	24,200.00	100%	24,200.00	0%	0.00	0%	0.00	0%	0.00
1020/3	Connection	1.00	0%	0.00	100%	1.00	0%	0.00	0%	0.00

ELEMENT NOTES

STRUCTURE UNIT: 0

ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY	QTY	QTY	QTY
					CS 1	CS 2	CS 3	CS 4
12	Re Concrete Deck	3	119,494.00	sq.ft	1.00	119,493.00	0.00	0.00

The top of the grooved reinforced concrete deck is bare, with no protective wearing surface (See Photo Nos. 4 thru 8 and 11 thru 19). The underside of the deck is covered by stay-in-place forms except for in Bay "G" and at the overhangs (See Photo Nos. 9 and 10).

1080 Delamination/Spall/Patched Are3 1.00 sq.ft 0.00 1.00 0.00 0.00



0

STRUCTURE UNIT:

RIDOT Bridge Inspection Report

020001 Washington Bridge South

Inspected By COLLINS

6.00

0.00

Inspector: SETH LEMOINE

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Bridge Condition Fair

	On the top of deck, there lanes in Span #14 (See F			nroughout the	four (4) main tra	avel		
	Along the middle of Bay (See Photo Nos. 23 and (See Photo No. 30). A fe	30). Some	of these holes h	ave been fille	ed while others h	nave not		
	In Span #13, the exposed long x 20" wide x 1/2" dee 56).		•		• •			
1120	Efflorescence/Rust Staining	3	1.00	sq.ft	0.00	1.00	0.00	0.00
	The exposed deck under efflorescence at random	•			e cracks with			
1130	Cracking (RC and Other)	3	1.00	sq.ft	1.00	0.00	0.00	0.00
	On the top of the deck, the (See Photo No. 13).	ere are full v	vidth hairline cra	cks spaced e	very 2' to 3' in al	l spans		
	The exposed deck under apart (See Photo Nos. 30 random hairline cracks s) and 56). Th	e north and sou					
1190	Abrasion(PSC/RC)	3	119,491.00	sq.ft	0.00	119,491.00	0.00	0.00
	The exposed top of the d isolated scrapes (See Ph			minor chips i	n the concrete a	nd		
8382	Stay-in-Place Form	3	97,500.00	sq.ft	93,375.00	4,125.00	0.00	0.00
	In Bays "A" and "I", the st interfaces between adjac several spans (See Photo	ent form sec	tions. Areas of r					
ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4

The superstructure consists of ten (10) weathering steel plate girders, continuous over all piers except Piers #4 and #9 (See Photo No. 9). Span #14 is splayed at Abutment #2, with two rolled section kicker beams supporting the flared section of deck along the south side of the bridge (See Photo No. 10). The girder ends are painted below the deck joints at the abutments and at Piers #4 and #9 (See Photo No. 31). The following locations present minor defects as follows: In Spans #4 and #5, Girders "A" and "J" do not exhibit the positive camber as adjacent girders and the same girders in other spans. In Span #11, Girders "A", "B" and "C" do not exhibit the positive camber as adjacent girders and the same girders in other spans, as previously noted in the 2015 Routine Inspection. In Span #1, Girder "J" has a slightly bent bottom flange, approximately 11' from Pier #1 measuring 5" long x 1/8" high.

16,644.00

16,674.00

515	Steel Protective Coating	3	251,200.00	sq.ft	246,200.00	5,000.00	0.00	0.00
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Steel Opn Girder/Beam



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STRUCTURE UNIT:

0

The weathering steel girders exhibit a normal surface patina with some scattered areas of yellow to orange rust, most common along the top flanges (See Photos Nos. 3, 9, 10, 27, 31 and 32).

The girder ends are painted 8' to 11' long below the deck joints at the abutments and at Piers #4 and #9. The painted girder ends have isolated locations of chipped, peeling and bubbling paint (See Photo No. 31).

In Span #1 at Girder "A", the bottom flange near Abutment #1, has an area of peeling/bubbling paint 18" long x 9" wide (top and underside of flange) extending 4" high on the north web.

In Span #9 at Girder "H", the bottom flange underside at Pier #9 has an area of peeling/bubbling paint up to 9' long x full width.

In Span #10 at Pier #9 in Bay "G" the backside of the bearing stiffeners for Girders "G" and "H" are not painted (See Photo No. 48).

In Span #12 at Girder "I", approximately 5% of the bottom flange underside face exhibits yellow to orange rust.

1000 Corrosion 15.00 0.00 15.00 0.00 0.00

Girder "A" in all spans has scattered light areas of laminar rust on the north side and underside of the bottom flange (See Photo No. 32).

In Span #3 at Girder "H" there is an area of laminar rust on the underside of the bottom flange 4' long x full width that continues on the north web 14' long x 3" high located between the first and second cross frame from Pier #3 (See Photo No. 15).

In Span #11 at Girder "A", there is an area of light rust and laminar rust along the interface of the girder top flange and the stay-in-place form between the first and second interior cross frames from Pier #10 (See Photo No. 52).

In Span #14 at Girder "A", there is an area of laminar rust 62" long x 1-1/2" high along the bottom of the north web at the east field splice plate.

Connection 0.00 6.00 6.00 0.00 12.00

In Span #4, at Girder "F" bolted field splice, a bolt head on the bottom flange is not flush with the splice plate (See Photo No. 27).

In Span #7 at Girder "G", there are three (3) missing bolts in the bottom flange at the west field splice plate (See Photo No. 40). Also, there is one missing bolt in the east field splice plate at the bottom of the flange.

In Span #8 at Girder "G", the bottom flange field splice plate is bent on the top of the flange up to 1/8" high.

In Span #9 at the Girder "A", there is a loose, undersized bolt in the bottom flange field splice (See Photo No. 45).

In Span #14 at Girder "B", there is a nut that is backed off at the north top flange field splice plate. 2.00

In Span #2 at Girder "I", the bottom flange is bent upward 3/4" high over a 2' length near the second interior cross frame from Pier #2 and the bottom flange at Girder "J" is slightly bent

upward in the same location (See Photo No. 21).

ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
205	Re Conc Column	3	39.00	each	39.00	0.00	0.00	0.00

0.00

2.00

0.00

0.00

Damage

1020

7000



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There are three (3) reinforced concrete columns at each pier. Column "A" (north column) is supported on an independent drilled shaft. Columns "B" and "C" (center and south columns) are supported by a reinforced concrete pier wall that was part of the original structure (See Photo Nos. 36, 42, 50, 51 and 55). The columns exhibit no deficiencies.

8368 Graffiti 3 1,190.00 each 1,190.00 0.00 0.00 0.00

The columns have scattered areas of graffiti, particularly at the piers on land (See Photo Nos. 42, 50 and 51).

ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY	QTY	QTY	QTY
					CS 1	CS 2	CS 3	CS 4
210	Re Conc Pier Wall	3	587.00	ft	293.00	292.00	2.00	0.00

The reinforced concrete pier walls are part of the original structure and support Columns "B" and "C" (center and south columns) (See Photo Nos. 36, 42, 50, 51 and 55). The piers have a stone masonry facade from below the water surface to the top of the pier wall. There are scattered areas of missing mortar between masonry stones and random cracked stones (See Photo No. 36). 2017 Underwater Inspection: The reinforced concrete pier walls are part of the original I-195 Eastbound structure and support Columns "B" and "C" (center and south columns) and support the arches (Arches "E" and "F") along with the Pedestrian / Bike Path Bridge (Br. No. 020021). For the Underwater Inspection, the Pier Wall for Bridge No. 020001 and Bridge No. 020021 was inspected and reported as a single structure. Piers #4 through #9 were included in the underwater inspection from the top of the stone masonry facade (bottom of the pier cope) to the channel bottom. The stone masonry has scattered areas of missing mortar, up to 15% with penetrations 3" to 6" deep between the stones, cracked stones and missing stones (See UW Photo Nos. 3 thru 21). The piers also have intermittent areas of footing / pile cap exposure with minor abrasion of the concrete.

1080 Delamination/Spall/Patched Are3 3.00 ft 0.00 3.00 0.00 0.00

At Pier #10, there is a spall 1' high x 1' wide x 2" deep on top of the southwest corner of the pier wall.

At Pier #11, the previously noted area of severe scaling 31" high x 23" wide x 4" deep on the west face has been repaired with a concrete patch.

At Pier #12, the previously noted spall 39" high x 2' wide x up to 5" deep at the north end of the pier wall east face has been repaired with a concrete patch (See Photo No. 55).

2017 Underwater Inspection:

At Pier #6 there are intermittent voids up to 3' long x 6" high x 6" deep along the interface of the stone facade and the concrete pier wall.

1120 Efflorescence/Rust Staining 3 1.00 ft 0.00 1.00 0.00 0.00

At Pier #13 there are two (2) cracks full height x up to 1/16" wide with one on the west face and the other on the east face that exhibit moderate efflorescence.

1130 Cracking (RC and Other) 3 472.00 ft 293.00 179.00 0.00 0.00



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The pier walls typically have scattered vertical hairline cracks (See Photo Nos. 36 and 51). Wider and more extensive cracking is present as follows:

At Pier #9, south of Column "C", there is a transverse crack full-width x 1/16" wide across the top face and a crack full height x up to 1/8" wide on the west face south of Column #3. There is also an area of hairline map cracking 12' long x 6' wide on the top face of pier wall between Columns "B" and "C".

At Pier #10, south of Column "C", there are three (3) transverse cracks full-width x up to 1/8" wide across the top of the pier wall, and extend down the vertical faces of the wall. There is also a vertical crack 3' high x 1/8" wide at the northwest corner.

At Pier #12, there is a crack full height x 1/16" wide on both the east and west face of the pier wall between Columns "B" and "C" (See Photo No. 55). There is also a vertical crack full height x up to 1/2" wide on the east face, south of Column "C" that has been repaired.

1190 Abrasion(PSC/RC) 3 10.00 ft 0.00 8.00 2.00 0.00

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0

The reinforced concrete pier walls, exposed below the stone facade have areas of abrasion as follows:

At Pier #5 there is a band of abrasion 2'-6" high x 3/4" deep across the north nose and 1/2" deep abrasion along mid-length of the pier wall below the stone facade.

At Pier #7 there are isolated areas of abrasion 2' long x 1' high x 2" deep on the south face and there is a band of abrasion 5' high x 1" deep near the channel bottom on the north face of the pier wall. There is also an area of abrasion 12" diameter x 5" deep near the channel bottom at southwest corner of the pier wall (See Photo Nos. 12 thru 14).

4000 Settlement 3 1.00 ft 0.00 1.00 0.00 0.00

Settlement gauges previously installed at Pier #12 have either been removed or covered/painted over. As a result, previously noted minor rotation of the pier wall could not be verified from the 2013 Routine Inspection Report. There are some medium to wide vertical cracks in the pier walls of Piers #9, #10 and #12, however no signs of settlement were observed (See Photo No. 55).

2017 Underwater Inspection Notes:

At Pier #7, on both the west and east faces of the pier, there are vertical cracks open to 1/4" wide that extend from the top of the stone masonry facade down to the channel bottom near the midpoint of the pier wall that may indicate slight settlement of the pier, as previously noted in the 2013 Underwater Inspection Report (See UW Photo Nos. 10, 11, 15 and 16).

6000 Scour 3 100.00 ft 0.00 100.00 0.00 0.00

2017 Underwater Inspection:

Since the 2013 Underwater Inspection, there is evidence of scour at the piers up to 9.9' high (Pier #6), however the exposure of the steps / pile caps up to 3' vertically x up to the full-length of the piers at Piers #4, #5 and #8 has remained relatively unchanged.

8368 Graffiti 3 3,240.00 ft 0.00 3,240.00 0.00 0.00

The pier walls on land exhibit areas of graffiti (See Photo Nos. 42, 50 and 51).

ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
215	Re Conc Abutment	3	171.00	ft	168.00	3.00	0.00	0.00



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	Abutment #1 is continuous continuous with the rema abutments exhibit randous Photos 20 and 61). At Ab	aining origin m hollow are	al section of the	e abutment f s, and hairlin	or Bridge No. 02 e cracks with an	0021 to the south d without efflores	. Both				
1080	Delamination/Spall/Patched	l Are3	2.00	ft	0.00	2.00	0.00	0.00			
	At Abutment #2, on the cracking and adjacent 3 abutment (See Photo N	3' high x 12" v									
1120	Efflorescence/Rust Staining	3	1.00	ft	0.00	1.00	0.00	0.00			
	At Abutment #1, there is of the abutment under E		•		e, located near th	ne base					
	At Abutment #2, there a repaired (See Photo No		airline cracks with	n efflorescen	ce, some which h	ave been					
1130	Cracking (RC and Other)	3	168.00	ft	168.00	0.00	0.00	0.00			
	At Abutment #1, there a have been sealed (See along the top 10' of the	Photo No. 20 abutment fac)). Random area e.	s of hairline	map cracking are	present					
LEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4			
20	Re Conc Pile Cap/Ftg	3	218.00	ft	216.00	2.00	0.00	0.00			
1190	Abrasion(PSC/RC) 2017 Underwater Inspe	3 ction:	218.00	ft	216.00	2.00	0.00	0.00			
	The pile caps exhibit abrasion up to 1/2" deep on the exposed surfaces.										
	At Pier #8 the sloped co deep on the east face of	•			•	high x 2"					
LEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4			
25	Steel Pile	3	6.00	each	6.00	0.00	0.00	0.00			
	2017 Underwater Inspect concrete caisson piles at a fiberglass jacket in plac significant deficiencies (the north (u	pstream) end of ds 13'-6" down	f the piers. C from the und	Over the steel cas derside of the co	sing at the caisso	n piles, there is				
1000	Corrosion	3	1.00	each	1.00	0.00	0.00	0.00			
	2017 Underwater Inspe At Piers #4 through #9, the fiberglass jackets.		ng at the caissor	n piles exhibi	ts minor corrosio	n below					
	At Pier #5, the exposed section loss along the cl	-	-	band of lam	inar rust with neg	ligible					

CS₁

CS 2

CS3

CS4



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_	Re Conc Pier Cap	3	920.00	ft	909.00	11.00	0.00	0.00
	There are reinforced cond have minor spalls and rar and the steel template pla	ndomly space	ed hairline crac	ks. There ar	e also areas of is	olated minor deb		
1080	Delamination/Spall/Patched	Are3	2.00	ft	0.00	2.00	0.00	0.00
	At Pier #1, the west face between Columns "A" at		6" long x 3" high x	(1/2" deep a	the bottom edge	•		
	At Pier #13, the east fac between Columns "A" a		oall 6" diameter x	3/4" deep al	ong the bottom ed	dge		
1120	Efflorescence/Rust Staining	3	1.00	ft	0.00	1.00	0.00	0.00
	The pier caps have som efflorescence (See Phot		•	onal hairline o	cracks with light			
1130	Cracking (RC and Other)	3	917.00	ft	909.00	8.00	0.00	0.00
	The pier caps have scat Photo Nos. 26 and 44). the caps.			-		•		
	Pier #3 has two (2) verti "F" that extend onto the crack measures 6' high underside. Below Gird continues 12" onto the u	underside of x 0.010" wide er "F" the ve	cap (See Photo e and continues a rtical crack meas	No. 26). Bel across the fu	ow Girder "E" the I width of the cap	vertical		
LEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY	QTY	QTY	QTY
					CS 1	CS 2	CS 3	CS 4
00	Strip Seal Exp Joint	3	68.00	ft	0.00	CS 2 23.00	CS 3 45.00	CS 4
00	Strip Seal Exp Joint There is a strip seal expain a few locations up to 3	nsion joint a	t Abutment #1 (S	See Photo N	0.00 o. 12). The seal i	23.00	45.00	
	There is a strip seal expan	nsion joint a	t Abutment #1 (S	See Photo N	0.00 o. 12). The seal i	23.00	45.00	
	There is a strip seal expain a few locations up to 3	nsion joint a long with d	t Abutment #1 (\$ebris impaction	See Photo N and crackin	o. 12). The seal is g of the seal.	23.00 s depressed dowr	45.00 nward slightly	0.00
2340	There is a strip seal expain a few locations up to 3	nsion joint a long with d	t Abutment #1 (\$ebris impaction	See Photo N and crackin	o. 12). The seal is g of the seal.	23.00 s depressed dowr	45.00 nward slightly	0.00
2340	There is a strip seal exparin a few locations up to 3' Seal Cracking At the Abutment #1 joint 12).	ansion joint and long with design and long with design and long with design and long with a long with	45.00 ansverse crack 4	ft ft	0.00 o. 12). The seal is g of the seal. 0.00 to 1" wide (See P	23.00 s depressed down 0.00 hoto No.	45.00 nward slightly	0.00
2340	There is a strip seal exparin a few locations up to 3 Seal Cracking At the Abutment #1 joint 12). Debris Impaction	ansion joint and long with design and long with design and long with design and long with a long with	45.00 ansverse crack 4	ft ft	0.00 o. 12). The seal is g of the seal. 0.00 to 1" wide (See P	23.00 s depressed down 0.00 hoto No.	45.00 nward slightly	0.00
2340 2350	There is a strip seal exparin a few locations up to 3' Seal Cracking At the Abutment #1 joint 12). Debris Impaction There is light to modera	asion joint a long with d 3 , there is a tr 3 te dirt and de	45.00 ansverse crack 4 23.00 ebris in the joint (ft 5' long x up ft (See Photo N	0.00 o. 12). The seal is g of the seal. 0.00 o 1" wide (See P	23.00 s depressed down 0.00 hoto No. 23.00	45.00 45.00 0.00	0.00 0.00
2340 2350 ELEM	There is a strip seal expanin a few locations up to 3' Seal Cracking At the Abutment #1 joint 12). Debris Impaction There is light to modera	alant at the	45.00 ansverse crack 4 23.00 ebris in the joint (QUANTITY	ft 5' long x up ft (See Photo N	0.00 o. 12). The seal is g of the seal. 0.00 o 1" wide (See P 0.00 No. 12). QTY CS 1 161.00	23.00 s depressed down 0.00 hoto No. 23.00 QTY CS 2 0.00	45.00 nward slightly 45.00 0.00 QTY CS 3 0.00	0.00 0.00 0.00
2340 2350 ELEM	There is a strip seal exparin a few locations up to 3: Seal Cracking At the Abutment #1 joint 12). Debris Impaction There is light to modera ELEMENT NAME Pourable Joint Seal There is pourable joint seal	alant at the	45.00 ansverse crack 4 23.00 ebris in the joint (QUANTITY	ft 5' long x up ft (See Photo N	0.00 o. 12). The seal is g of the seal. 0.00 o 1" wide (See P 0.00 No. 12). QTY CS 1 161.00	23.00 s depressed down 0.00 hoto No. 23.00 QTY CS 2 0.00	45.00 nward slightly 45.00 0.00 QTY CS 3 0.00	0.00 0.00 0.00



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There are modular expansion joints at Piers #4 and #9 and at Abutment #2 that have locations of rips and debris impaction (See Photo Nos. 16 and 17). 2340 Seal Cracking 0.00 42.00 0.00 0.00 At the Pier #4 joint, in the low speed shoulder, there are few areas where the neoprene seal is ripped and torn along approximately half the length of the joint (See Photo No. 16). At Abutment #2, the neoprene seal is torn up to 5' long in the low speed lane (See Photo No. 19). 2350 Debris Impaction 178.00 0.00 178.00 0.00 0.00 The modular joints typically exhibit light to moderate dirt and debris impaction, with heavier impaction observed in the low speed shoulder. The joint at Piers #4 and #9 have moderate debris in the joint up to full length (See Photo No. 16 and 17). **ELEMENT NAME ELEM ENV** QUANTITY UNITS QTY QTY QTY QTY CS₁ CS₂ CS₃ **CS 4** 321 2,212.00 582.00 1,630.00 0.00 0.00 **Re Conc Approach Slab** sq.ft There are reinforced concrete approach slabs at either end of the bridge. The west approach slab is paved over with a bituminous wearing surface and is therefore not visible (See Photo Nos. 4 and 5). The east approach slab is bare, with no protective wearing surface and exhibits minor defects (See Photo Nos. 7 and 8). 510 Wearing Surfaces 782.00 sq.ft 482 00 300.00 0.00 0.00 The west approach slab is paved over with a bituminous wearing surface that exhibits cracking and wheel path rutting up to 1/2" deep (See Photo No. 12). **ELEM ELEMENT NAME ENV QUANTITY UNITS** QTY QTY QTY QTY CS₁ CS 2 CS₃ CS 4 Crack (Wearing Surfac 3 170.00 0.00 170.00 0.00 0.00 sq.ft The bituminous wearing surface at the west approach slab has longitudinal cracks, both sealed and unsealed, full length x 1/2" wide along the paving seam in the low speed lane (See Photo No. 12). 1130 Cracking (RC and Other) 100.00 100.00 0.00 0.00 0.00 sq.ft The top surface of the east approach slab has scattered longitudinal cracks in the off ramp lane (See Photo No. 19). 1190 Abrasion(PSC/RC) 3 0.00 1,160.00 0.00 0.00 1,160.00 sq.ft The east approach slab exhibits areas of minor to moderate wear, as well as a few minor scrapes and gouges (See Photo No. 19). **ELEM** QTY QTY **ELEMENT NAME ENV** QUANTITY UNITS QTY QTY **CS 4** CS₁ CS₂ CS 3 **Re Conc Bridge Railing** 3,318.00 3,317.00 0.00 1.00 0.00

There are reinforced concrete bridge railings along both sides of the bridge (See Photo Nos. 3 thru 8 and 12 thru 19). The bridge railings/safety barriers extend beyond the approaches. The railings exhibit scattered vertical cracks, a few isolated scrapes, and minor gouges (See Photo Nos. 12 and 15).

1130 Cracking (RC and Other) 3.309.00 3.309.00 0.00 0.00

The concrete railings have scattered full height hairline cracks spaced 2' to 3' apart on the bridge (See Photo No. 15).

0.00



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7000	Damage	3	9.00	ft	8.00	0.00	1.00	0.00			
	The northwest approach rail has impact damage approximately 9' long x 3' high (See Photo No. 11).										
	140. 11).										
LEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY	QTY	QTY	QTY			
ELEM	,	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4			

There is a scupper along both bridge curbs at each pier and both abutments with 8" diameter PVC downspouts directing the drainage below the superstructure. Scupper Grates – The grates along the south curb are partially clogged with dirt at Abutment #1 and Piers #2, #8, #9, #10, #11 and #12 and 100% clogged at Abutment #2 and Piers #5, #6 and #7 (See Photo Nos. 14 and 18). In addition, grates along the north curb make a banging noise when vehicles pass over them. Scupper Downspouts – The downspouts are clogged at Abutment #1 south side, Pier #1 north side, Pier #2 south side, and Pier #5 south side (See Photo Nos. 22 and 35). In addition, the Pier #1 downspout outlet has a buildup of debris causing erosion adjacent to the pier wall (See Photo No. 61).

ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
8213	R/C Return Wall	3	70.00	ft	70.00	0.00	0.00	0.00

There is a reinforced concrete return wall at the northeast corner of the bridge. The Northeast Return Wall has an architectural finish and displays hairline cracks with light to moderate vegetation growth in front of the wall.

1130 Cracking (RC and Other)

70.00

ft

70.00

0.00

0.00

0.00

The Northeast Return Wall has vertical hairline cracks extending from the weep holes up to 10' high.

ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
8218	Backwall, All Types	3	171.00	ft	168.00	1.00	2.00	0.00

There are reinforced concrete backwalls at both abutments. The backwalls exhibit spalls, cracks with and without efflorescence.

1080	Delamination/Spall/Patched	Are3	2.00	ft	0.00	0.00	2.00	0.00			
	At Abutment #2, there is a spall 7" high x 24" wide x up to 12" deep at the top of backwall, behind Girder "A" (See Photo No. 61).										
1120	Efflorescence/Rust Staining	3	1.00	ft	0.00	1.00	0.00	0.00			
	The backwalls have rand Photo No. 62).	The backwalls have random hairline vertical cracks up to full height, with efflorescence (See Photo No. 62).									
1130	Cracking (RC and Other)	3	168.00	ft	168.00	0.00	0.00	0.00			
	The backwalls have random hairline cracks up to full height (See Photo No. 62).										

ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY	QTY	QTY	QTY
					CS 1	CS 2	CS 3	CS 4
8316	Isolation Bearing	3	172.00	each	61.00	99.00	12.00	0.00



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	There are isolation be (See Photo Nos. 25, 3 locations (See Photo	88, 39, 49, 53 and				-					
000	Corrosion	3	4.00	each	0.00	4.00	0.00	0.00			
	At Pier #3, Girders " No. 25).	E" and "G" bearin	gs exhibit areas	of light to mo	derate rust (See I	Photo					
	At Pier #4, Girder "J Photo No. 31). Light				the masonry plate	e (See					
020	Connection	3	57.00	each	0.00	45.00	12.00	0.00			
	The bearing connect Approximately 50% Generally, bolts and 49, 53 and 60).	of all connections	are either loose	, tilted, backe	ed off, or missing.	41, 43,					
220	Alignment	3	8.00	each	0.00	8.00	0.00	0.00			
	At Pier #4, Span #5 bearing pad centerli			is offset appr	oximately 1" sout	h of the					
	At Pier #8, Girders " bearing pad centerli the bearing. Girders bearing pad centerli	ine. Girder "B", cei s "C", "D" and "E" c	nterline is offset enterlines are al	2-1/4" to the	south of the cente	erline of					
	At Pier #9 in Span #9, all girder centerlines are offset up to 1" to the south of the bearing pad centerlines.										
	At Abutment #2, Girders "B", "D" and "G" through "L" centerlines are offset 2" south of the bearing pad centerline. In addition, some girder bottom flanges are not seated flush with the sole plates. These deficiencies are as follows:										
	At Pier #2, Girder "J" bearing in Span #2, exhibits a 1/16" gap between the bottom flange and sole plate at the southwest corner and tapers flush at the northwest corner of the bearing.										
	At Pier #5, Girder "H" bearing in Span #6, exhibits a 1/16" gap between the bottom flange and sole plate on the east face of the bearing (See Photo No. 38).										
	At Pier #9, Girder "A" bearing in Span #10, exhibits a 1/16" gap between the bottom flange and the sole plate.										
	At Pier #12, Girder "J" bearing in Span #13, exhibits a 1/16" gap between the bottom flange and the sole plate at the southeast corner and tapers flush at the northeast corner of the bearing.										
230	Bulging, Splitting or Te	aring 3	2.00	each	0.00	2.00	0.00	0.00			
	At Pier #4, Girder "E" bearing in Span #4, the bearing material is compressed up to 1/4" on the south side. (Photo No. 28)										
	At Pier #8, Girder "A	A" bearing is comp	oressed up to 1/4	4" on the sou	th side.						
240	Loss of Bearing Area	3	40.00	each	0.00	40.00	0.00	0.00			
	Several of the beari concrete pedestal a the concrete bearing a few locations. The an uneven finish at	long the edges of g pedestal are up e gaps are the res	the plate. The ga to 1/4" high at se ult of the top sur	aps between everal location face of the co	the masonry platens and up to 5/8" oncrete pedestal h	e and high in					



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ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
8370	Steel Diaphragms	3	805.00	each	804.00	1.00	0.00	0.00

The interior cross frames and end diaphragms have scattered areas of yellow to orange rust with scattered locations of concrete debris / over-pour from construction and isolated locations of connection deficiencies. (See Photo Nos. 9, 10, 33 and 37).

515 Steel Protective Coating

g

24,200.00

sq.ft

24,200.0

0.00

0.00

0.00

The cross frames and diaphragms are protected by a weathering steel patina. The weathering steel diaphragms and cross frames exhibit a normal surface patina with some scattered areas of yellow to orange rust (See Photo Nos. 9, 10, 33 and 37).

The end diaphragms below the deck joints at the abutments and at Piers #4 and #9 are painted. However, the end diaphragm at Pier #9 in Span #10 is not painted on the west face. (See Photo No. 48).

1020 Connection

1.00

е

0.00

1.00

0.00

0.00

Bay "G" interior cross frames in several spans have plate washers overlapping adjacent washers and are slightly bent (See Photo No. 46).

At Pier #9 in Span #10, the bolts at the end diaphragm connections to Girder "G" and "H" in Bay "G" are loose or not fully engaged (See Photo No. 48). There is also a slight gap between the bearing stiffener plate and the end diaphragm at both connections.



020001 Washington Bridge South

Inspected By

Inspector: SETH LEMOINE

COLLINS

Inspection Date 07/24/2017

Bridge Condition Fair

Work History From completed work candidates. Agency Completion Date Action Notes Generated by user "william.lucas@dot.ri.gov" on 9/20/2023. See 09/19/2023 pictuers in Mutimedia section: Generated by user "william.lucas@dot.ri.gov" on 9/20/2023. scuppers 09/20/2023 and drains cleaned, also Joints glands cleaned. **Bridge Maintenance** Completion Date Action Notes 02/28/2024 (Per John Preiss and Chet-Inspect all Drains and Clean Drains If Needed.) (Entered by William lucas Bridge Maintenance)-Job completed 2-2824) 06/18/2024 (Entered by William lucas Bridge Maintenance) Deck washed 6/ 8/24 06/18/2024 (Generated by user "william.lucas@dot.ri.gov" on 5/30/2024) Bridge Maintenance-Replace Broken Scupper Grates on 195 Eastbound-Clean And Wash Drains. completed 5-29-24 Replaced 3 Broken Scupper Grates on 195 Eastbound, Swept and Cleaned Drains. 5/29/24- Grates will be monitored every 2 to 4 weeks for damage or loose grates. At this time we are in the process of making temporary steel grates. 6/12/24-Inspected all scupper grates on 195 Eastbound- All loose bolts and nuts found were re-tighten. 6/18/24-Inspected all scupper grates on 195 Westbound- All loose bolts and nuts found were re-tighten and re placed stainless steel bolts and nuts. Hours Rate TypeTitle DateEmployee / CrewEmployee Number Actual L (Entered by William lucas Bridge Maintenance) Monthly inspection-07/26/2024 Repair or replace scupper drains as needed on 195 East and 195 Westbound. Inspection completed on East and Westbound. 09/13/2024 (Entered by William lucas Bridge Maintenance)Monthly check cleaned both all drainage, and Joint glands. 9/13/24. (Entered by William lucas Bridge Maintenance) Monthly Miantenance! 09/13/2024 Cleaned and flushed all drainage, as well as cleaned and flushed all joint glands. 10/23/2024 Entered By William.lucas Bridge Maintenance. **Work Candidates**

Status Priority Action Proposed Notes



020001 Washington Bridge South

Inspected By COLLINS

Inspector: SETH LEMOINE

Inspection Date 07/24/2017

Bridge Condition Fair

Equipment

Aerial Lift Boat

Underbridgeinspvel

Scaffolding

BoesemansChair

Waders

Rail Mount Elliot

Crash Truck

Air Monitor

Ladder

Bucket Truck

Rigging

Floats

Climbing
Rail Mount Bucket Truck

Light Tower

Poison Ivy

Heavy Vegetation

Hurricane Evac Route?

Cones

Traffic Setup Req

Police Req

Night Insp Req

Signs

Speed Limit

Prep Time

Crew Slize

Under Insp Vehicle Time

Traffic Control Time

Mile Post

Crew Days

Time Report Time

Bucket Truck Time

Site Access Notes

Avg Curb Reveal North/East Avg Curb Reveal South/West

Posted Weight Limit

Posting Sign?

Post Signs Legible

Post Sign Rec

Adv Min Vert Clear Sign

Min Ver tClear Signs Leg

Min Vert Clear Post Vales

Min Vert Clear Sign Rec

Old Rating and Postings

RR Mile Post

US DOT/AAR No.

Telephone

Sewer

Cable

Oil

Fire Alarm

OH Lines Present

Water

Gas

Electric

Fiber Optic



Bridge Condition Fair

020001 **Washington Bridge South**

Inspected By COLLINS

Inspector: SETH LEMOINE

07/24/2017

Inspection Date

10/31/2024	Bat and Bird Observations							
Bats:								
BATS OBSERVED	BATS VISUAL	BAT DROPPINGS	BAT STAINING	BAT SOUNDS BAT PHOTOS				
BATS NOTES								
BIRDS OBSERVED		BIRD PHOTOS	BIRDS	SPECIES IDENTIFIED				
BIRD NOTES								