

Bridge ID:

NBI Number

Location (9): Carries (7):

Structure Name:

Type of Service (42A):

Feature Crossed (6):

Type of Service (42B):

Placecode (4):

County (3):

Region (2):

Latitude (16):

Owner (22):

Longitude (17):

Custodian (21):

Year Built (27):

Historical (37):

Year Recon (106):

State (1):

Station:

RIDOT Bridge Inspection Report

020001 Washington Bridge South

Inspected By AECOM-COMMONWEALTH

Bridge Condition Fair

IDENTIFICATION

Washington Bridge South

Washington Bridge South 1.0 Mi E of JCT I-95&195

SEEKONK RVR & STS

6 Highway-waterway East Providence

020001

I-195 EB

1 Highway

Providence

NBI

District 3

1930

2008

5 Not eligible for NRHP

41.8190048

-71.3868191

01 State Highway Agency

01 State Highway Agency

Border Number:

% Responsibility:

Border State: Not Applicable (P)

44 Rhode Island

Inspector: Inspection Date

07/21/2023

	INS	PECTION	
Date of Routine Insp	ection (90):	7/21/2023	
Frequency (91):		24	
Next Inspection:		7/21/2025	
Inspection Type	Freq (92)	Last Insp (93)	Next Insp
Element	24	7/21/2023	7/21/2025
Fracture Critical (A)	101211	1/1/1901	1/1/1901
Underwater (B)	48	7/23/2021	7/21/2025
Special Insp (C)		1/1/1901	1/1/1901

LOAD RATING AND POSTING

Posting Status (41)	
Posting % (70):	
Rating Date:	
Design Load (31):	
Opr Method (63):	
Opr Rating (64):	
Inv Method (65):	
Inv Rating (66):	

Π

A Open, no restriction 5 At/Above Legal Loads 10/7/2019 9 MS22.5(HS25)or greater 8 LRFR (HL93) 35.30 Tons 8 LRFR (HL93) 27.00 Tons

DECK GEOMETRY Deck Geometry (68): 4 Tolerable Deck Area: 119,461.50 Deck Type (107): 1 Concrete-Cast-in-Place **1 Monolithic Concrete** Wearing Surface (108A): 0 None Membrane (108B): Deck Protection (108C): 1 Epoxy Coated Reinforci 71.50 O. to O. Width (52): Curb / Sidewalk Width L (50A): 0.00 Curb / Sidewalk Width R (50B): 0.00 Median (33): 0 No median



DECK CO	ONDITION
Deck Rating (58):	7 Good
Bridge Rail (36A):	1 Meets Standards
Transition (36B):	1 Meets Standards
Approach Rail (36C):	1 Meets Standards
Approach Rail Ends (36D):	1 Meets Standards

4 4 4 4 4 4 8 8 8 7 7 7 7 7 1997 1998 1999 2002 2007 2009 2011 2013 2015 2017 2019 2021 2023

SUPERSTRUCTURE CONDITION

7 Good

Superstructure Rating (59): Structure Evaluation (67):

6 Equal Min Criteria

SUPERSTRUCTURE GEOMETRY

14 0

160.37

0

1,670.79

Long Enough

1 Yes, flared Right of || bridge 6 Equal Min Criteria

Not Applicable (P)

4 Steel Continuous

02 Stringer/Girder

# of Main Spans (45):	
# of Approach Spans (46):	
Main Material (43 A):	
Main Design <mark>(43 B)</mark> :	
Max Span Length (48):	
Structure Length (49):	
NBIS Length (112):	
Temp Structure (103):	
Skew (34): Structure Flared (35):	
Parallel Structure (101):	
Approach Alignment (72):	



020001 Washington Bridge South

Inspected By AECOM-COMMONWEALTH

Bridge Condition Fair

Inspector: Inspection Date

07/21/2023

					_
SUI	BSTRUCTURE GEON	METRY	0		
Navigation Control (3	8): Permit	Required			
Nav Vert Clearance (3	(9): 134.5	2		67666666	
Nav Horiz Clearance	(40): 321.8	5	5 5 5 5 4		
Pier Protection (111):	2 In-Pl	ace, Functioning	1997 1998 1999 2002 200	7 2009 2011 2013 2015 2017 2019 2021 2023	J
Lift Bridge Vertical			SUBS	TRUCTURE CONDITION	
Clearance (116):			Substructure Rating (60)	6 Satisfactory	
Scour Rating (113):	3 SC -	Unstable	Channel Rating (61):	6 Bank Slumping	
Waterway Adequacy (71): 9 Abov	ve Desirable			_
1ST ROUTE UNDER	R: Gano Street				
ROADWAY	LOCATION	ROADWAY	CLASSIFICATION	CLEARANCES	
Pos Prefix (5A):	1st Route Under	Funct Class (26):	17 Urban Collector	Vertical (10): 26.50	
Kind of Hwy (5B):	5 City Street	Level Service (5C):	1 Mainline	Min Vert Over (53): 17 00 20	75
Route Num (5D):	0	NHS (104):	0 Not on NHS	Vert Ref (54A): H Hwy beneath struct	
LRS Route (13A/B):		Defense Hwy (100):	0 Not a STRAHNET hwy	Horizontal (47): 89 00	
Milepost (11):		Toll Facility (20):	3 On free road	Min Lat Left (56): 0.00	
Suffix (5E):	0 N/A (NBI)	ADT (29):	81,000 Cars/Day	Min Lat Right (55B): 14.50	
Lanes Under (28B):	2	Pct Trucks (109):	13.00%	Horiz Ref (55A): H Hwy beneath struct	
Detour Length (19):	0.00 mi (0.00 km)	ADT Year (30):	2021	Underclearance (69): 9 Above Desirable	
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1					
2ND ROUTE UNDE	R: Water Street				
2ND ROUTE UNDE ROADWAY	R: Water Street	ROADWAY	CLASSIFICATION	CLEARANCES	
2ND ROUTE UNDE ROADWAY Pos Prefix (5A):	R: Water Street LOCATION 2nd Route Under	ROADWAY Funct Class (26):	CLASSIFICATION 19 Urban Local	CLEARANCES	
2ND ROUTE UNDE ROADWAY I Pos Prefix (5A): Kind of Hwy (5B):	R: Water Street LOCATION 2nd Route Under 5 City Street	ROADWAY Funct Class (26): Level Service (5C):	CLASSIFICATION 19 Urban Local 1 Mainline	CLEARANCES Vertical (10): 27.17 Min Vert Over (53): 17.00 20	75
2ND ROUTE UNDE ROADWAY I Pos Prefix (5A): Kind of Hwy (5B): Route Num (5D):	R: Water Street LOCATION 2nd Route Under 5 City Street 0	ROADWAY Funct Class (26): Level Service (5C): NHS (104):	CLASSIFICATION 19 Urban Local 1 Mainline 0 Not on NHS	CLEARANCES Vertical (10): 27.17 Min Vert Over (53): 17.00 20. Vert Ref (54A): H Hwy beneath struct	.75
2ND ROUTE UNDE ROADWAY I Pos Prefix (5A): Kind of Hwy (5B): Route Num (5D): LRS Route (13A/B):	R: Water Street LOCATION 2nd Route Under 5 City Street 0	ROADWAY Funct Class (26): Level Service (5C): NHS (104): Defense Hwy (100):	CLASSIFICATION 19 Urban Local 1 Mainline 0 Not on NHS 0 Not a STRAHNET hwy	CLEARANCES Vertical (10): 27.17 Min Vert Over (53): 17.00 20. Vert Ref (54A): H Hwy beneath struct Horizontal (47): 27.50	.75
2ND ROUTE UNDE ROADWAY I Pos Prefix (5A): Kind of Hwy (5B): Route Num (5D): LRS Route (13A/B): Milepost (11):	R: Water Street LOCATION 2nd Route Under 5 City Street 0	ROADWAY Funct Class (26): Level Service (5C): NHS (104): Defense Hwy (100): Toll Facility (20):	CLASSIFICATION 19 Urban Local 1 Mainline 0 Not on NHS 0 Not a STRAHNET hwy 3 On free road	CLEARANCES Vertical (10): 27.17 Min Vert Over (53): 17.00 20. Vert Ref (54A): H Hwy beneath struct Horizontal (47): 27.50 Min Lat Left (56): 0.00	.75
2ND ROUTE UNDE ROADWAY I Pos Prefix (5A): Kind of Hwy (5B): Route Num (5D): LRS Route (13A/B): Milepost (11): Suffix (5E):	R: Water Street LOCATION 2nd Route Under 5 City Street 0 0 N/A (NBI)	ROADWAY Funct Class (26): Level Service (5C): NHS (104): Defense Hwy (100): Toll Facility (20): ADT (29):	CLASSIFICATION 19 Urban Local 1 Mainline 0 Not on NHS 0 Not a STRAHNET hwy 3 On free road 81,000 Cars/Day	CLEARANCES Vertical (10): 27.17 Min Vert Over (53): 17.00 20. Vert Ref (54A): H Hwy beneath struct Horizontal (47): 27.50 Min Lat Left (56): 0.00 Min Lat Right (55B): 14.50	.75
2ND ROUTE UNDE ROADWAY I Pos Prefix (5A): Kind of Hwy (5B): Route Num (5D): LRS Route (13A/B): Milepost (11): Suffix (5E): Lanes Under (28B):	R: Water Street LOCATION 2nd Route Under 5 City Street 0 0 N/A (NBI) 2	ROADWAY Funct Class (26): Level Service (5C): NHS (104): Defense Hwy (100): Toll Facility (20): ADT (29): Pct Trucks (109):	CLASSIFICATION 19 Urban Local 1 Mainline 0 Not on NHS 0 Not a STRAHNET hwy 3 On free road 81,000 Cars/Day 13.00%	CLEARANCES Vertical (10): 27.17 Min Vert Over (53): 17.00 20. Vert Ref (54A): H Hwy beneath struct Horizontal (47): 27.50 Min Lat Left (56): 0.00 Min Lat Right (55B): 14.50 Horiz Ref (55A): H Hwy beneath struct	.75
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2ND ROUTE UNDE ROADWAY I Pos Prefix (5A): Kind of Hwy (5B): Route Num (5D): LRS Route (13A/B): Milepost (11): Suffix (5E): Lanes Under (28B): Detour Length (19):	R: Water Street LOCATION 2nd Route Under 5 City Street 0 0 N/A (NBI) 2 0.00 mi (0.00 km) R: Waterfront Drive	ROADWAY Funct Class (26): Level Service (5C): NHS (104): Defense Hwy (100): Toll Facility (20): ADT (29): Pct Trucks (109): ADT Year (30):	CLASSIFICATION 19 Urban Local 1 Mainline 0 Not on NHS 0 Not a STRAHNET hwy 3 On free road 81,000 Cars/Day 13.00% 2021	CLEARANCESVertical (10):27.17Min Vert Over (53):17.0020.Vert Ref (54A):H Hwy beneath structHorizontal (47):27.50Min Lat Left (56):0.00Min Lat Right (55B):14.50Horiz Ref (55A):H Hwy beneath structUnderclearance (69):9 Above Desirable	.75
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2ND ROUTE UNDEL ROADWAY I Pos Prefix (5A): Kind of Hwy (5B): Route Num (5D): LRS Route (13A/B): Milepost (11): Suffix (5E): Lanes Under (28B): Detour Length (19): 3RD ROUTE UNDEL ROADWAY I Pos Prefix (5A): Kind of Hwy (5B): Route Num (5D): LRS Route (13A/B): Milepost (11): Suffix (5E): Lanes Under (28B):	R: Water Street LOCATION 2nd Route Under 5 City Street 0 0 N/A (NBI) 2 0.00 mi (0.00 km) R: Waterfront Drive LOCATION 3rd Route Under 5 City Street 0 0 N/A (NBI) 2	ROADWAY Funct Class (26): Level Service (5C): NHS (104): Defense Hwy (100): Toll Facility (20): ADT (29): Pct Trucks (109): ADT Year (30): ROADWAY Funct Class (26): Level Service (5C): NHS (104): Defense Hwy (100): Toll Facility (20): ADT (29): Pct Trucks (109):	CLASSIFICATION 19 Urban Local 1 Mainline 0 Not on NHS 0 Not a STRAHNET hwy 3 On free road 81,000 Cars/Day 13.00% 2021 CLASSIFICATION 19 Urban Local 2 Alternate 0 Not on NHS 0 Not a STRAHNET hwy 3 On free road 81,000 Cars/Day 13.00%	CLEARANCES Vertical (10): 27.17 Min Vert Over (53): 17.00 20. Vert Ref (54A): H Hwy beneath struct Horizontal (47): 27.50 Min Lat Left (56): 0.00 Min Lat Right (55B): 14.50 Horiz Ref (55A): H Hwy beneath struct Underclearance (69): 9 Above Desirable CLEARANCES Vertical (10): 20.75 Min Vert Over (53): 17.00 20. Vert Ref (54A): H Hwy beneath struct Horizontal (47): Min Vert Over (53): 17.00 20. Vert Ref (54A): H Hwy beneath struct Horizontal (47): Min Lat Left (56): 0.00 Min Lat Right (55B): 14.50 Horiz Ref (55A): H Hwy beneath struct Horiz Ref (55A): H Hwy beneath struct	.75



020001 Washington Bridge South

Inspected By AECOM-COMMONWEALTH

Bridge Condition Fair

Inspector: Inspection Date

07/21/2023

ROUTE ON STRUCTURE: I-195 EASTBOUND										
ROADWAY I	LOCATION	ROADWAY	CLASSIFICATION	CLEA	ARANCES					
Pos Prefix (5A):	Route On Structure	Funct Class (26):	11 Urban Interstate	Vertical (10):	99.99					
Kind of Hwy (5B):	1 Interstate Hwy	Level Service (5C):	1 Mainline	Min Vert Over (53):	17.00 20.75					
Route Num (5D):	00195	NHS <mark>(104)</mark> :	1 On the NHS	Vert Ref <mark>(54A)</mark> :	H Hwy beneath struct					
LRS Route (13A/B):	6600/00	Defense Hwy (100):	1 On Interstate STRAHNET	Horizontal (47):	83.80					
Milepost (11):	1.43 mi (2.30 km)	Toll Facility (20):	3 On free road	Min Lat Left <mark>(56)</mark> :	0.00					
Suffix <mark>(5E)</mark> :	2 East	ADT <mark>(29)</mark> :	81,000 Cars/Day	Min Lat Right (55B)	: 14.50					
Lanes On (28A):	5	Pct Trucks (109):	13.00%	Horiz Ref <mark>(55A)</mark> :	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. The girders are labeled A through J from North to South in each span. In the Southeast corner of Span 14, there are two additional kicker beams, Kicker Beams K and L, supporting the Exit 4 ramp. The interior diaphragms are numbered from West to East, starting again from 1 in each span.

EQUIPMENT REQUIRED: 60' Manlift, Barge with 60' Manlift for spans over water, Local 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.

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

INSPECTION NOTES



020001 Washington Bridge South

Inspected By AECOM-COMMONWEALTH

Inspector: Inspection Date

07/21/2023

Bridge Condition Fair

Routine Inspection Completed by Commonwealth Engineers and Consultants, Inc.

Team Leaders:

Final Inspection Date: 7/21/23

Weather: Varied from Rainy/cloudy - 72 degrees Fahrenheit to sunny - 85 degrees Fahrenheit

The scope of work was to perform a routine inspection of the bridge.

No significant changes in the condition of the structure were observed during this inspection, and therefore the NBI condition ratings remain unchanged:

Deck (58) – 7 Good Superstructure (59) – 7 Good Substructure (60) – 6 Satisfactory

During the previous Routine Inspection that was completed on 7/23/2021 numerous cross frame welded connection plates to the girders were reported to have defects consisting of incomplete fusion. These "defects" were previously reported to RIDOT and dye penetrant testing was performed on select welds to check for cracks. The tests did not revealed any cracks.

RIDOT made archived fabrication reports and welding reports available for review, however none of these reports mentioned any type of defects to the diaphragm welds. In these reports the summaries to the diaphragm welds stated that the "welding was within approved procedure" or "Welding was within W33 parameters". Due to the fact that some of these "weld defects" are located at the painted over girder ends, this indicates that the welds were there during fabrication prior to painting of the girders.

During this routine inspection these previously noted weld area "defects" were visually inspected and observed not to have changed since the previous inspection. Comparison to previous inspections reports, indicates that the "defects" were perhaps undercut weld areas which required additional passes to achieve the minimum weld size required during fabrication.

These weld locations should, however, continue to be monitored for cracks or change in condition during future inspections. Refer to Item 107 and attachment "020001 Table 2 - Weld Defects.pdf" for a detailed description and locations of weld "defects".

Utilities - In Span 2, Bay G, there are three drain pipes through the concrete deck that exhibit rust. On the exterior face of the South Railing at Pier 9, the electrical conduit flexible coupling at the joint is torn and detached (See photo 103). In Span 12, there is a cable secured along Interior Diaphragm 2 in Bays A through H. The conduit mounted to the underside of Girder G in Span 14 near Interior Diaphragm 3 exhibits moderate rust on the North end.

Under bridge Lights – There are four lights over Waterfront Drive which were on during the inspection and three lights over Water Street which were off during the inspection.

Light Standards – There are ten lights spaced evenly along the north and south side of the bridge. Most of the lights were not on at the time of the inspection and it is unknown if they function. Refer to attachment "020001 Table 3 - Lighting Standard Defects.pdf" (See photos 11, 15 and 17).

There are areas of construction debris/equipment that is for the ongoing construction work for adjacent Br. 070001 that is being stored under Br. 020001 (See photos 113, 114, 117, 118 and 121).

2021 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 81). The dolphin pile groups at the South (downstream) end of the fenders exhibit no significant



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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.

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

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	16,364.00	100%	16,334.00	0%	24.00	0%	6.00	0%	0.00
515/3	Steel Protective Coating	247,490.00	98%	242,490.00	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	3.00	0%	0.00	100%	3.00	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
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



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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
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	31%	8.00	4%	1.00	27%	7.00	38%	10.00
8107/3	Steel Opn Girder/Beam ENE	310.00	100%	310.00	0%	0.00	0%	0.00	0%	0.00
515/3	Steel Protective Coating	3,710.00	100%	3,710.00	0%	0.00	0%	0.00	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	18%	31.00	75%	129.00	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	38.00	0%	0.00	100%	38.00	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

ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY 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 wearing surface. The top of the deck was observed to have wheel line rutting, minor sand/debris accumulation, transverse and longitudinal cracks, minor wear, and spalling/minor scaling throughout (See photos 2, 3, 7, 8, 12, 14, 19, 21, 22 and 23). The underside of the deck is covered with stay-in-place forms except for in Bay G and both overhangs. The forms were observed to have areas of light to heavy rust and corrosion with isolated areas of section loss (See photos 46, 57, 69, 71, 79, 86, 98, 109, 110, 111, 112, 116, 120 and 130). The exposed portions of the deck underside were observed to have transverse cracks with and without efflorescence, isolated spalls/scaling and anchor bolt holes (See photos 39, 53, 96, 99 and 131).

1080

Delamination/Spall/Patched Are3

sq.ft

1.00

0.00

1.00

0.00

0.00

020001 Washington Bridge South

Inspected By AECOM-COMMONWEALTH

Inspector:

	Driven to get you there	Bridge C	ondition F	air		Inspection D	ate	07/21/2023
	Top of Deck:							
	At the West Abutmen wide x 2" deep spall a photos 2 and 3).	t in the header adj and two (2) spalls i	acent to the po measuring up t	ourable joint s to 6" wide x 1	seal there is a 6 ' long x 1" deep	s" long x 2' o (See		
	In Span 5 adjacent to deep spall (See photo	the pier #4 joint ir o 12).	n the right lane	there is a 1'-	3" wide x 3" lor	ng x 1"		
	In Span 11 there is a	small concrete rep	pair patch with	light map cra	cking (See pho	oto 19).		
	At the East Abutment bituminous patches a	in the header adjand a spall up to 1"	acent to the po ' deep (See ph	ourable joint th otos 22 and 2	nere are two (2) 23).)		
	Underside of Deck:							
	The exposed deck un anchor bolt holes nea not. Some have expo	derside throughou r Girder G. Some sed anchor bolts h	ut Bay G was o of these holes nanging out of	bserved to h have been fi the holes (Se	ave evenly spa lled while other ee photo 39)	ced s have		
	Span 4 – In Bay G at (See photo 53).	Pier #4 there is a	3" long x 8" wi	de x 1" deep	spall along the	cold joint		
	Span 13- in Bay G ne ½" deep area of spall	ar the 1st interme ing/scaling.	diate diaphrag	m there is a 3	3'-6" wide x 2'-5	5" wide x		
	Span 14 – In Bay G a chipping concrete (Se	long the longitudir e photo 131).	nal cold joint th	e deck was o	observed to hav	ve areas of		
1120	Efflorescence/Rust Staini	ing 3	1.00	sq.ft	0.00	1.00	0.00	0.00
	Underside of Deck:							
	The underside of the scattered transverse 1 131).	exposed deck in E hairline cracks wit	Bay G and both h and without e	n overhangs v efflorescence	vere observed (See photos 3	to have 9, 99 and		
	Throughout the under G, some of the holes	side of Bay G the show signs of leal	re are evenly s kage.	spaced ancho	or bolt holes nea	ar Girder		
	The following location joint in Bay G:	is were observed	to have minor l	leakage alon	g the longitudin	al deck		
	West Abutment #1 Span 4 at Pier #4 (Se Span 9 at Pier #9 (Se	e photo 53). ee photo 96).						
1130	Cracking (RC and Other)	3	1.00	sq.ft	1.00	0.00	0.00	0.00
	The top of the expose 2'to 3' in all spans. Th cracks scattered throu	ed deck was obser lere are also areas ughout (See photo	rved to have fu s of moderate t os 7, 8 and 14)	ll width hairliı to wide trans [,]	ne cracks space verse and longi	ed every tudinal		
	Underside of Deck:							
	The exposed deck un cracks spaced 3' to 6'	derside in Bay G apart throughout	was observed the bridge (Se	to have scatt e photos 39 a	ered transverse and 131).	e hairline		
	The underside of both efflorescence, some o 99).) overhangs was o of these cracks ex	bserved to ha tend onto the v	ve scattered vertical face c	cracks with and of the barriers (\$	l without See photo		
1190	Abrasion(PSC/RC)	3	119,491.00	sq.ft	0.00	119,491.00	0.00	0.00
	The exposed top of d	eck was observed	l to have light t	o heavy wea	r scattered thro	ughout,		

minor chips in the concrete and isolated scrapes (See photos 14 and 21).





Stay

8382

RIDOT Bridge Inspection Report

020001 Washington Bridge South

Inspected By AECOM-COMMONWEALTH

					Inspector:				
let you there	Bridge	e Condition F	air	Inspection [Date	07/21/2023			
-in-Place Form	3	97,500.00	sq.ft	93,375.00	4,125.00	0.00	0.00		

Underside of Deck:

There are stay-in-place forms in all bays except for Bay G throughout the bridge. The forms were observed to have scattered areas of light to heavy rust/corrosion, mainly at the interfaces between the adjacent form sections, especially in Bays A and I. Areas of rust cover up approximately 5% of the bay area in several spans (See photos 46, 57, 69, 71, 79, 86, 98, 109, 110, 111, 112, 116, 120 and 130).

In Span 5, Bay I near Pier 4, the drain connection to the deck exhibits moderate rust and the stay-in-place form around the connection exhibits corrosion.

In Span 6, Bay A near Pier 5, the drain connection to the deck exhibits moderate rust and the stay-in-place form around the connection exhibits corrosion (See photo 69).

In Span 11, Bay A, near Interior Diaphragm 2, the stay-in-place form exhibits a 1'-6" long x 4' wide area of up to 100% section loss (See photo 110).

In Span 11, Bay I at Pier 12, the drain connection to the deck exhibits moderate to heavy rust and the stay-in -place form around the connection exhibits light corrosion/rust (See photo 111).

In Span 14, Bay F, near Interior Diaphragm 3, the stay-in-place form exhibits a 1' long x 3' wide area of rust.

ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
107	Steel Opn Girder/Beam	3	16,364.00	ft	16,334.00	24.00	6.00	0.00

The superstructure consists of ten weathering steel plate girders, continuous over all piers except Piers 4 and 9. Span 14 is splayed at the East Abutment, with two rolled section kicker beams that support the flared section of deck along the South side of the bridge (See photo 130). At various locations along the girders, primarily at connection points between the diaphragms and girders, there are weld areas that were previously reported as weld defects (See photos 138 through 142). These defects were listed as incomplete fusion. These weld defects have not changed since the previous routine inspection, which was completed on 7/23/21. During the previous routine inspection dye penetrant tests were performed on several of the defective welds to determine if the welds had cracked, and all test results indicated that no cracks were present. For specific locations of weld defects, see attachment "020001 Table 2 - Weld Defects.pdf". These locations should be continued to be monitored in future inspections. There are several locations of concrete overpour on the girder webs and bottom flanges throughout the bridge (See photos 45, 94 and 119). Additionally, the girders typically exhibit a gap between webs at the field splice locations. At random locations throughout the Bridge, the girders exhibit 1/8" high bends in the bottom flanges and a few locations with up to 3/4" high bends (See photos 44 and 94). The following locations exhibit minor defects as follows: There are scattered locations of mis-drilled/unused holes throughout the girders. Spans 4 and 5, Girders A and J - Girders do not exhibit the positive camber exhibited by adjacent girders and same girders in other spans. Span 11, Girders A, B and C - Girders do not exhibit the positive camber exhibited by adjacent girders and same girders in other spans, as previously noted in the 2015 Routine Inspection.

515	Steel Protective Coating	3	247,490.00	sq.ft	242,490.00	5,000.00	0.00	0.00
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The weathering steel girders exhibit a normal surface patina with some scattered areas of yellow to orange rust, most common along the top flanges, with isolated locations of patina not forming (See photo 95).

Bridge Condition Fair

The end 8' to 11' of the girders are painted 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.

Specific coating deficiencies are as follows:

Span 1, West Abutment, Girder A - Bottom flange exhibits a 1'-6" long x 9" wide area of peeling/bubbling paint (top and underside of flange) extending 4" high on the North Face of the web.

Span 5, Pier 5, Girder A, North Face - Girder exhibits inconsistent coating.

Span 10, Pier 9, Girder G and Girder H - Backside of bearing stiffeners not painted.

Span 12 - Several girders exhibit scattered areas of orange rust.

Span 14, Girder G, near Intermediate Diaphragm 1 - Splice plate exhibits loss of oxidized coating.

1000	Corrosion	3	15.00	ft	0.00	15.00	0.00	0.00

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Bridge Condition Fair

In all spans, Girder A exhibits scattered light areas of laminar rust on the North side and underside of the bottom flange.

In Span 1, the underside of the bottom flange of Girder B has minor laminar rust (See photo 32).

In Span 2, both faces of Girder A at the splice exhibits rust along the bottom flange (See photo 36).

In Span 3, Girder A at the field splice exhibits laminar rust at the base of the girder web (See photo 43). Between Interior Diaphragms 4 and 5, Girder H exhibits 4' long x full width area of laminar rust on the underside of the bottom flange that continues 14' long x 3" high onto the North Face of the web. Girder I at the field splice exhibits rust along the bottom flange splice plate.

In Span 4 at the West field splice, Girder A exhibits 3" high x 1/16" thick laminated rust to the bottom of the web (See photo 51). Near Pier 4, Girder J exhibits corrosion and flaking to the underside of the bottom flange.

In Span 5 at the field splice, Girder A exhibits laminated rust up to 1/16" thick at base of the web and bottom flange around the splice plates and laminated rust to the underside of the splice plate and bolts (See photo 62). On the South Face of Girder H, the top flange exhibits moderate rust between Interior Diaphragms 1 and 2.

In Span 6 , the underside of Girder A near Pier #5 was observed to have laminar rust that extends from the pier to the field splice (See photo 70).

In Span 7, the North Face of Girder A exhibits areas of laminar rust at the base of the web up to 3" high near the West and East Field Splices. The South Face of Girder A also exhibits minor laminar rust on the splice plates at the West Field Splice.

In Span 8 from Pier 8 to the East Field Splice, Girder A exhibits laminated rust along the underside of the bottom flange (See photo 84).

In Span 11 between Interior Diaphragms 1 and 2, Girder A exhibits a 7'-0" long x full height area of moderate to heavy rust/corrosion on both flanges and the web (See photos 108 and 110). Between Interior Diaphragms 2 and 4, Girders A and B exhibit minor to moderate rust.

In Span 13, the North Face of Girder A at the field splice exhibits 3" high x 4' long x up to 1/8" deep section loss along the bottom of the web.

In Span 14, Girder A at the West field splice was observed to have a 4' long x 3" high area of rust on the girder web (See photo 125). The North Face of Girder A at the East field splice has a 6' long x 4" high x 1/16" deep area of section loss along the bottom of the web (See photo 126).

1020	Connection	3	12.00	ft	0.00	6.00	6.00	0.00
	In Span 4 at the Girder F t splice plate (See photo 52	field splice, a bolt !).	head on the b	ottom flange	is not flush with th	e		
	In Span 7, Girder G exhib West Field Splice (See ph the East Field Splice (See	its three (3) missi oto 77) and one i photo 78).	ng bolts in the missing bolt in	bottom flang the bottom fl	e splice plate of th ange splice plate a	e It		
In Span 8, on the North Face of Girder G at the East field splice, the splice plate on top of the bottom flange is bent up to 1/8" high (See photo 85).								
	In Span 9, at the Girder A field splice, there is one loose and undersized bolt in the bottom flange (See photo 93). In Span 14, on the North Face of Girder B at the field splice - One nut is backed off at the top flange splice plate (See photo 127).							
7000	Damage	3	3.00	ft	0.00	3.00	0.00	0.00



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Span 2, Girder I, near Interior Diaphragm 3 - Bottom flange is bent upward 3/4" high over a 2' length (See photo 38).

Span 2, Girder J near Interior diaphragm 3 – the bottom flange is bent slightly upwards (See photo 37).

Span 14, Girder B, South face, between Interior Diaphragms 3 and 4 - $2" \log x 1/4"$ high gouge in bottom edge of bottom flange (See photo 128).

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

There are three (3) reinforced concrete columns at each pier. Column A (north column) is supported on an independent drilled shaft while columns B and C (center and south columns) are supported by a reinforced concrete pier wall with a stone masonry façade that was part of the original structure (See photos 40, 47, 50, 58, 60, 64, 67, 72, 74, 80, 82, 83, 87, 88, 100, 104, 106, 107, 113, 114, 117, 118, 121 and 123).

8368	Graffiti	3	1,190.00	each	1,190.00	0.00	0.00	0.00
	The columns were observ photos 50, 80, 82, 83, 87,	ved to have area 106, 107, 113,	as of graffiti, es 114, 117, 118,	pecially at th 121 and 123	ne piers on land (Se 3).	е		

ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY 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. The piers were observed to 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 photos 47, 50, 58,
60, 64, 67, 72, 74, 80, 82, 83, 87, 88, 100, 104, 106, 107, 113, 114, 117, 118, 121 and 123). Note that there is vagrant
debris at the base of Pier #6 and #7 (See photo 83). Since much of the pier walls are below the water line,
information from the 2021 Underwater Inspection has been included below. For detailed descriptions of
underwater deficiencies and related photos, see the 2021 Underwater Inspection Report. Notes from the 2021
Underwater Inspection: The reinforced concrete pier walls are part of the original I-195 Eastbound structure and
support Columns B and C 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. The piers also exhibit 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 6 there are interm of the stone facade and t high on the East Face (S	At Pier 6 there are intermittent voids up to 3'-0" long x 6" high x 6" deep along the interface of the stone facade and the concrete pier wall. There is a missing stone 2'-0" long x 2-1/2" high on the East Face (See photo 75).											
	At Pier 7 on the West Fa	ce, there is a	missing stone 3	5'-6" long x 5	'-0" high (See ph	ioto 81).							
	At Pier 10, there is a spa the pier wall.	At Pier 10, there is a spall 1'-0" high x 1'-0" wide x 2" deep on top of the southwest corner of the pier wall.											
1120	Efflorescence/Rust Staining	3	1.00	ft	0.00	1.00	0.00	0.00					
	At Pier 13 there are two to one on the West Face ar	At Pier 13 there are two full height x up to 1/16" wide cracks with moderate efflorescence, one on the West Face and one on the East Face.											
1130	Cracking (RC and Other)	3	472.00	ft	293.00	179.00	0.00	0.00					

Inspector: Inspection Date 07/21/2023 Bridge Condition Fair The pier walls typically exhibit scattered vertical hairline cracks. Wider and more extensive cracking is present as follows: Pier #6 - On the west face of the pier near the north end there is a full-height crack in the stone (See photos 72 and 73). Pier #9 - The top face and west face between columns B and C were observed to have widespread areas of map cracking throughout (See photo 101). Pier #10 - South of column C there are three (3) full-width x 1/8" wide transverse cracks across the top of the pier wall that extends down the vertical faces of the wall. There is also a 3' high x 1/8" wide vertical crack on the northwest corner. Pier #12 – On the west face below Girder I there is a full height hairline crack. On the east face there is a full height x 1/16" wide crack between columns B and C. 1190 Abrasion(PSC/RC) 3 10.00 ft 0.00 8.00 2.00 0.00 Notes from the 2021 Underwater Inspection have been retained below: The piers typically exhibit abrasion up to 1/2" deep throughout the exposed reinforced concrete below the stone facade and isolated areas of poor consolidation/section loss up to 1" deep. Specific locations of abrasion on the exposed reinforced concrete are as follows: At Pier 5 there is a band of scaling full width x 3'-0" high x up to 3/4" deep across the North nose. At Pier 7 there are various locations of scaling/section loss typically between 2-1/2" to 3-1/2 deep on all four faces of the pier near the channel bottom, and up to 5" deep along the Southwest corner. 4000 Settlement 3 1.00 ft 0.00 1.00 0.00 0.00 On Piers 9, 10 and 12 there are some medium to wide vertical cracks in the pier walls, however no signs of settlement were observed (See photo 101). Notes from the 2021 Underwater Inspection have been retained below: At Pier 7, on both the West and East Faces of the pier, there are up to 1/4" wide vertical cracks extending from the top of the stone masonry facade down to the channel bottom near the midpoint of the pier wall, which may indicate slight settlement of the pier, as previously noted in the 2017 Underwater Inspection Report. 6000 Scour 3 100.00 ft 0.00 100.00 0.00 0.00 Notes from the 2021 Underwater Inspection have been retained below: Since the 2017 Underwater Inspection, the exposure of the pile caps has remained relatively unchanged, with the exception of Pier 8. The pile cap exposure at Pier 8 has increased 1'-6" vertically and there is seal exposure up to 1-3" high. The previously noted exposure of the steps/pile caps at Piers 4 and 5 has remained relatively unchanged, there is no pile cap exposure observed at Piers 6 and 7, and the pile cap at Pier 9 has become exposed along the West side of the pier. 8368 Graffiti 3 3,240.00 ft 0.00 3,240.00 0.00 0.00 The pier walls that are on land were observed to have areas of graffiti (See photos 50, 80, 82, 83, 101, 104, 106, 107, 113, 114, 117, 118, 121 and 123).

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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	Driven to get you there	Bridge	Condition	Fair		Inspection	Date	07/21/2023
	West Abutment #1 is sha shared between Bridge 0 random hollow areas, mi There are locations of bin 31) and the East Abutmen	red between 20001 and a nor spalls, h d debris and nt #2 beam s	Bridge 020001 a djacent Bridge 0 airline cracks w d construction d eat (See photo 2	and Bridge ()20021 to the ith and with ebris on the 136).	70001 to the no south. Both Al out efflorescend West Abutmen	orth, and East Abut butments were obs ce (See photos 29, t #1 beam seat (See	ment #2 is erved to have 132 and 133). e photos 30 and	
1080	Delamination/Spall/Patche	d Are3	2.00	ft	0.00	2.00	0.00	0.00
	On the north face of Ea adjacent full-height x 12	st Abutment 2" wide hollov	#2 there is an 11 w area (See pho	l" wide x 30" to 133).	high x 7" deep s	spall with an		
1120	Efflorescence/Rust Staining	g 3	1.00	ft	0.00	1.00	0.00	0.00
	At the west abutment th been sealed. There are abutment face. There i 29)	nere are scat random are s a 20' long l	tered vertical and as of hairline ma norizontal hairlind	d diagonal cr p cracking a e crack with	racks, most of w long the top 10' efflorescence (S	hich have of the See photo		
	At the East Abutment, b at mid-height and two 5 Bays D and F, there are Girder J in Bay I, there the base. From below B construction joint at the	below Bay D '-0" long diag e repaired dia is a 2'-6" long Bay J to the S base (See p	there is a 3'-0" lo gonal cracks with agonal cracks wi g diagonal crack South end, there hoto 132).	ong horizonta n efflorescen th effloresce with efflores is effloresce	al crack with efflo ce near the base nce near the base cence and rust nce along the ho	prescence e. Below se. Below staining at prizontal		
1130	Cracking (RC and Other)	3	168.00	ft	168.00	0.00	0.00	0.00
	been sealed. There are abutment face. There i 29) East Abutment has sev efflorescence and scatt	random area s a 20' long h eral areas of ered hairline	as of hairline ma norizontal hairling repaired diagon cracks with and	p cracking a e crack with al hairline cra without efflo	long the top 10' efflorescence (S acks with and w rescence (See p	of the See photo ithout ohoto 132).		
ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
220	Re Conc Pile Cap/Ftg	3	218.00	ft	216.00	2.00	0.00	0.00
	At Pier #10 there is an ar portion of the pile cap (S Inspection has been inclu the 2021 Underwater Insp concrete pile caps with u pier face then slopes dow protruding up through th	ea of erosior ee photo 106 uded below. Dection Repo nknown type vnward at a e pile cap.	a at the northwe b). For the piers For detailed des ort. 2021 Underw e piles. The slop 45° angle. At the	st corner of in the water, scriptions of vater Inspect ped concrete Southeast of	the wall that ex information fro underwater def ion: The pier wa step/pile cap s corner of Pier 8	poses an approxim om the 2021 Underv ficiencies and relat alls are founded on teps out 1'-6" to 2'- , there are two timb	ately 22' long vater ed photos, see reinforced 0" from the er piles	
1190	Abrasion(PSC/RC)	3	218.00	ft	216.00	2.00	0.00	0.00
	Notes for the 2021 Und	erwater Insp	ection have bee	n retained be	elow:			
	The pile caps exhibit at	prasion up to	1/2" deep on the	e exposed su	irfaces.			
	At Pier 8, the sloped co high x 5" deep on the E	ncrete step/p ast Face of t	bile cap exhibits he pier, located	an area of se 5' from the se	ection loss 2'-0" outheast corner.	long x 8"		
ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
225	Steel Pile	3	6.00	each	6.00	0.00	0.00	0.00



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	Driven to get you there							07/04/0000
		Bridge	Condition	Fair		Inspection	Date	07/21/2023
	This element can only be has been included below Underwater Inspection R steel encased reinforced the caisson piles, there is cap section, which has n	e evaluated fi . For detailed eport. 2021 l concrete ca s a fiberglass o significant	om underwater d descriptions o Jnderwater Insp isson piles at th s jacket in place deficiencies.	, therefore ir of underwate pection: This ne North (ups e that extend	nformation from r deficiencies ar element shall b stream) end of th s 13'-6" down fro	the 2021 Underwa nd related photos, e used to rate the ne piers. Over the om the underside	ter Inspection see the 2021 condition of the steel casing at of the concrete	
1000	Corrosion	3	1.00	each	1.00	0.00	0.00	0.00
	2021 Underwater Inspe	ection Notes:						
	At Piers 4 through 9, th pitting up to 1/16" deep	e steel casin below the fil	g at the caisson perglass jackets.	piles exhibits	s minor corrosion	ı with		
ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
34	Re Conc Pier Cap	3	920.00	ft	909.00	11.00	0.00	0.00
	photo 97).	Ses over to B	nuge uzuuu i. Ii	nere is pooli	ng water on the	pier cap in Bay J a	at Pier #9 (See	
	photo 97).	Ses over to B		nere is pooli	ng water on the	pier cap in Bay J a	at Pier #9 (See	
1080	photo 97). Delamination/Spall/Patche	ed Are3	2.00 2.00	ft	0.00	2.00	at Pier #9 (See	0.00
1080	Delamination/Spall/Patche Pier #1 – On the west f between columns A and	ace there is a d B (See pho	2.00 a 6" long x 3" hig to 34).	ft h x ½" deep	ng water on the	2.00 pier cap in Bay Ja	0.00	0.00
.080	photo 97). Delamination/Spall/Patche Pier #1 – On the west f between columns A and Pier #13 – On the east between columns A and	ace there is a d B (See pho face there is d C.	2.00 a 6" long x 3" hig to 34). a 6" diameter x	ft ft h x ½" deep ¾" deep spa	0.00 spall on the botto	2.00 2.00 pm edge m edge	0.00	0.00
.080	photo 97). Delamination/Spall/Patche Pier #1 – On the west f between columns A and Pier #13 – On the east between columns A and Efflorescence/Rust Staining	ace there is a d B (See pho face there is d C.	2.00 a 6" long x 3" hig to 34). a 6" diameter x 1.00	ft Jh x ½" deep ¾" deep spa	ng water on the 0.00 spall on the botto Il along the botto 0.00	2.00 2.00 om edge m edge 1.00	0.00 0.00	0.00
.080	photo 97). Delamination/Spall/Patche Pier #1 – On the west f between columns A and Pier #13 – On the east between columns A and Efflorescence/Rust Staining The pier caps were obs light efflorescence (See	ace there is a d B (See pho face there is d C. g 3 served to hav e photos 40 a	2.00 a 6" long x 3" hig to 34). a 6" diameter x 1.00 e scattered verti nd 88).	ft gh x ½" deep ¾" deep spa ft ical and diag	ng water on the 0.00 spall on the botto Il along the botto 0.00 onal hairline crac	2.00 2.00 om edge m edge 1.00 cks with	0.00 0.00	0.00
.080	photo 97). Delamination/Spall/Patche Pier #1 – On the west f between columns A and Pier #13 – On the east between columns A and Efflorescence/Rust Staining The pier caps were obs light efflorescence (See The east face of Pier #2 B and D measuring up	ad Are3 ace there is a d B (See pho face there is d C. g 3 served to hav e photos 40 a 2 was observ to full height	2.00 a 6" long x 3" hig to 34). a 6" diameter x 1.00 e scattered verti nd 88). red to have two (with efflorescent	ft ft h x ½" deep ¾" deep spa ft ical and diago (2) vertical ha ce (See phot	ng water on the 0.00 spall on the botto Il along the botto 0.00 onal hairline cracks und o 41).	2.00 2.00 om edge m edge 1.00 cks with ler Girders	0.00 0.00	0.00
080	photo 97). Delamination/Spall/Patche Pier #1 – On the west f between columns A and Pier #13 – On the east between columns A and Efflorescence/Rust Staining The pier caps were obs light efflorescence (See The east face of Pier # B and D measuring up The east face of Pier # efflorescence that extended	ad Are3 ace there is a d B (See pho face there is d C. g 3 served to hav e photos 40 a 2 was observ to full height 10 was obsel nds down on	2.00 a 6" long x 3" hig to 34). a 6" diameter x 1.00 e scattered verti nd 88). red to have two (with efflorescent rved to have a 5" to the column be	ft ft ft ft ft ft ft ft ft fc fc fc fc fc fc fc fc fc fc	ng water on the 0.00 spall on the botto 0.00 onal hairline crack o 41). ical hairline crack	2.00 2.00 com edge m edge 1.00 cks with ler Girders	0.00 0.00	0.00
.120	photo 97). Delamination/Spall/Patche Pier #1 – On the west f between columns A and Pier #13 – On the east between columns A and Efflorescence/Rust Staining The pier caps were obs light efflorescence (See The east face of Pier # B and D measuring up The east face of Pier # efflorescence that extended The East Face of Pier # The East Face of Pier #	Are3 ace there is a d B (See pho face there is d C. g 3 served to hav e photos 40 a 2 was observ to full height 10 was obser nds down on 11 was obser e behind the	2.00 a 6" long x 3" hig to 34). a 6" diameter x 1.00 e scattered verti nd 88). red to have two (with efflorescen- trved to have a 5 to the column be ved to have an a scupper below E	ft ft h x ½" deep %" deep spa ft ical and diage (2) vertical ha ce (See phot '-8" high verti elow Girder B approximatel Bay A.	ng water on the 0.00 spall on the botto 0.00 onal hairline crack airline cracks und o 41). ical hairline crack 3. y 5'-0" high vertic	2.00 2.00 om edge m edge 1.00 cks with der Girders	0.00	0.00
1080	photo 97). Delamination/Spall/Patche Pier #1 – On the west f between columns A and Pier #13 – On the east between columns A and Efflorescence/Rust Staining The pier caps were obs light efflorescence (See The east face of Pier # B and D measuring up The east face of Pier # efflorescence that extend The East Face of Pier # efflorescence The East Face of Pier # efflorescence The East Face of Pier # efflorescence	Are3 ace there is a d B (See pho face there is d C. g 3 served to hav e photos 40 a 2 was observed to full height 10 was obser nds down on 11 was obser e behind the 13 below Bay	2.00 a 6" long x 3" hig to 34). a 6" diameter x 1.00 e scattered verti nd 88). red to have two (with efflorescene ved to have a 5 to the column be ved to have an a scupper below E	ft ft ft ft ft ft ft ft ft ft	ng water on the 0.00 spall on the botto 0.00 0.01 0.01 0.00 0.01 0.01 0.00 0.01 0.01 0.01 0.00 0.01 0.01 0.01 0.01 0.01 0.02 0.01 0.01 0.01 0.02 0.01 0.01 0.01 0.02 0.02 0.02 0.01 0.01 0.02	pier cap in Bay J a 2.00 om edge m edge 1.00 ks with ler Girders a with cal hairline	0.00	0.00

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Inspected By AECOM-COMMONWEALTH



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Bridge Condition Fair

Inspector: Inspection Date

07/21/2023

The pier caps were observed to have scattered vertical and diagonal hairline cracks with light efflorescence, Piers #6 and 8 have scattered crescent shaped cracks (See photos 34, 40, 64, 88, 89, 113, 114, 117, 118, 121, 123 and 124).

The east face of Pier #2 was observed to have two (2) vertical hairline cracks under Girders B and D measuring up to full height with efflorescence (See photo 41).

The West Face of Pier #3 was observed to have two vertical hairline cracks beneath Girders E and F that extend onto the underside of the cap See photos 47 and 48). Below Girder E, the vertical crack measures 6'-0" high and continues across the full width of the cap underside. Below Girder F, the vertical crack measures 6'-0" high and continues 1'-0" onto the underside of the cap.

The west face of Pier #5 was observed to have two (2) full-height vertical hairline cracks below Girders B and C (See photo 65).

The south end of Pier #8 was observed to have a hairline crack that extends on top of the pier cap and under the masonry plate (See photo 91).

The East Face of Pier #10 was observed to have a full height hairline crack below Girder C and a 2'-11" high hairline crack below Girder I.

ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
300	Strip Seal Exp Joint	3	68.00	ft	0.00	23.00	45.00	0.00

	There is a strip seal e and depressed neopr	expansion joint at rene, debris impa	t the West Abutm ction, and cracki	ent. The se	al exhibits sever eal (See photos :	al locations of rip 2 and 3).	ped, missing,	
340	Seal Cracking	3	45.00	ft	0.00	0.00	45.00	0.00

There is transverse cracking in the adjacent header measuring approximately 45' wide x up to 1" wide (See photos 2 and 3).

2350	Debris Impaction	3	23.00	ft	0.00	23.00	0.00	0.00
	There is light to modera	te dirt and d	ehris in the joint (S	ee nhotos	2 and 3)			

ight to moderate dirt and debris in the joint (See photos 2 and 3).

ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
301	Pourable Joint Seal	3	161.00	ft	161.00	0.00	0.00	0.00

There is pourable joint sealant at the approach slab joints at both ends of the bridge. At the West Abutment, there are 1'-0" long sections of missing sealant in the Right Lane, Left Center Lane, and Left Lane, and a 2'-0" long section of missing sealant in the Right Center Lane (See photos 2 and 3). At the East Abutment, there is transverse and map cracking throughout the pourable joint with cracks open up to $\frac{1}{2}$ wide (See photos 22 and 23).

ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
303	Assem Jnt With Seal	3	220.00	ft	0.00	178.00	0.00	42.00

There are modular expansion joints at Piers #4 and #9 and at the East Abutment that have several locations of	
ripped, missing, and depressed neoprene as well as debris impaction (See photos 12, 13, 18, 22 and 23). In Span 4	
at Pier 4, there is plow damage to the joint angle in the Right Shoulder (See photos 12 and 13). At the North End of	
Pier 4, some of the joint elements on the underside of the joint exhibit corrosion.	

2340	Seal Cracking	3	42.00	ft	0.00	0.00	0.00	42.00
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RI	
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020001 Washington Bridge South

Inspected By AECOM-COMMONWEALTH

Inspector:

	Driven to get you there	Bridge	Condition	Fair		Inspection	Date	07/21/2023
	At the Pier 4 joint, there in the Right Lane and F	e are several Right Shoulde	areas where the r (See photos 1	e neoprene se 2 and 13).	eal is damaged	or missing		
	At the Pier 9 joint, the j	oint exhibits i	mpact damage i	n the right la	ne (See photo 1	8).		
	At the East Abutment, neoprene seal through	there are seve out (See phot	eral locations of os 22 and 23).	ripped, miss	ing, and depres	sed		
2350	Debris Impaction	3	178.00	ft	0.00	178.00	0.00	0.00
	The modular joints typi heavier impaction in th	cally exhibit li e Right Shoul	ght to moderate der (See photos	debris impa 12, 13, 22 a	ction throughout and 23).	t, with		
ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
321	Re Conc Approach Slab	3	2,212.00	sq.ft	582.00	1,630.00	0.00	0.00
510	Wearing Surfaces The west approach sla	ng surface an minor defect 3 b is paved ov	d is not visible ts (See photos 2 782.00 er with a bitumir	(See photo 2 24 and 25). sq.ft nous wearing	482.00 surface that was	300.00 300 300 300 300 300 300 300 300 3	0.00	0.00
	to have minor to mode 1).	rate wheel line	e rutting, crackir	ig, and bitum	, ninous patches (See photo		
	ELEM ELEMENT NA	ME EN	IV QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
	3220 Crack (Wearing S	urfac 3	170.00	sq.ft	0.00	170.00	0.00	0.00
	The bituminous wea patch over the prev railing (See photo 1	aring surface iously mention).	over the west ap ned seam crack	proach slab and pothole	was observed t s in the second	o have a long bitum travel lane from the	inous south	
1130	Cracking (RC and Other)	3	100.00	sq.ft	100.00	0.00	0.00	0.00
	The top of the east app off-ramp lane and in th	oroach slab w e high-speed	as observed to h lane (See photo	nave scattere s 24 and 25)	ed longitudinal c).	racks in the		
1190	Abrasion(PSC/RC)	3	1,160.00	sq.ft	0.00	1,160.00	0.00	0.00
	The east approach slal few minor gouges and	o was observe scrapes (See	ed to have areas photo 24).	s of minor to	moderate wear	as well as a		
ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
331	Re Conc Bridge Railing	3	3,318.00	ft	3,317.00	0.00	1.00	0.00
1130	There are reinforced con extend beyond the appro scrapes, and minor goug misaligned and not secu Cracking (RC and Other) The concrete railings e	crete bridge paches. The r ges (Photo 4, red to each o 3 xhibit scattere	railings along b ailings were ob 7, 10 and 11). A ther, leaving a 3,309.00 ed full height hai	oth sides of served to ha t the Southw gap between ft rline cracks s	the bridge. The vest Approach r barriers. 3,309.00 spaced 2' to 3' a	e bridge railings/saf prtical cracks, a few rail, the safety barrie 0.00 part on the	ety barriers isolated ers are 0.00	0.00
	bridge (See photo 10). In Span 9 at the 6th lig that extends undernea	ht standard fr th the light (Se	om the west end ee photo 17).	l there is an	8" long crack in	the barrier		

The exterior face of the bridge railing along both sides of the bridge exhibit up to full height vertical hairline cracks throughout.

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700

RIDOT Bridge Inspection Report

020001 Washington Bridge South

Inspected By AECOM-COMMONWEALTH

							Inspector:	
D	Driven to get you there	Bridge	Condition F	air		Inspection	Date	07/21/2023
0	Damage	3	9.00	ft	8.00	0.00	1.00	0.00
	Both bridge railings	ware cheerved to	have coattored	impost coro	non along the he	rrioro (Soo		

Both bridge railings were observed to have scattered impact scrapes along the barriers (See photo 4, 7 and 11).

ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
8060	Scupper	3	26.00	each	8.00	1.00	7.00	10.00

Scupper Grates: The scupper grates consist of a combination of original grates with bolted connections and replacement grates with welded connections (attachment "020001 Table 1 - Scupper Grate Defects.pdf"). Several scupper grates exhibit cracked and broken original grates and replacement grates with broken welds. As a result, portions of some grates, particularly those in the Left Lane, are loose and can be removed by hand. The scupper grates in the Left Lane at Piers 3 and 5 make a loud banging noise when vehicles pass over it. For locations of broken and loose grates, see attachment "020001 Table 1 - Scupper Grate Defects.pdf". Additionally, a majority of the grates are partially to 100% clogged with mud and debris. At some locations, standing water was observed at the time of inspection. For specific locations of significant clogging and standing water, see attachment "020001 Table 1 - Scupper Downspouts: The downspouts are clogged in the following locations: West Abutment South side, Pier 1 North side, Pier 2 South side, Pier 5 South side, Pier 6 South side, and Pier 7 South side. There is also a clogged catch basin at the base of the East Abutment indicates standing water previously extended up to full length of the abutment. The downspout in Span 1, Bay I exhibits moderate rust (See photo 33).

ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
8107	Steel Opn Girder/Beam ENDS	3	310.00	ft	310.00	0.00	0.00	0.00

The girder ends are painted below the deck joints at the abutments and at Piers 4 and 9. The girder ends were observed to be in good condition with isolated locations of chipped/peeling paint and light surface rust (See photos 33, 54, 56, 63 and 97). There were also isolated locations of concrete overpour (See photo 92). There are several locations at girder ends throughout the bridge where there are unused/mis drilled bolt holes (See photo 33 and 63).

515	Steel Protective Coating	3	3,710.00	sq.ft	3,710.00	0.00	0.00	0.00
	The substant student substant							

The painted girder ends were observed to be in overall good condition with isolated areas of chipped paint/peeling paint with light rust (See photos 33, 54, 56, 63, 92 and 97).

In Span 4 at Pier #4, the north face of Girder H was observed to have peeling paint with light rust on the bottom flange and bottom of the web (See photo 54).

In Span 5 at Pier #4, the north face of Girder A was observed to have corrosion to the bottom flange at the bearing and a 1'-1" long x 3" high area of corrosion to the web east of the bearing stiffener.

In Span 5 at Pier #4, the south face of Girder J was observed to have an area of light to moderate rust on the bottom flange (See photo 63).

At Pier #9, the South Face of Girder J in Span 9 and 10 was observed to have moderate surface rust on the bottom flange and up to 1' high on the bearing stiffener (See photo 97).

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 that has an architectural finish with vertical hairline cracks (See photo 133). There is minor vegetation growth along the base of the wall.

130	Cracking (RC and Other)	3	70.00	ft	70.00	0.00	0.00	0.00

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020001 Washington Bridge South

Inspected By AECOM-COMMONWEALTH

Inspector: Inspection Date

07/21/2023

The northeast return wall was observed to have vertical hairline cracks that extend from the weep holes up to 10' high in the architectural finish (See photo 133).

Bridge Condition Fair

ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4			
218	Backwall, All Types	3	171.00	ft	168.00	1.00	2.00	0.00			
	There are reinforced cond spall and scattered vertic	crete backwa al cracks wi	alls at both abut th and without e	ments. The efflorescenc	backwalls were e (See photos 30	observed to have), 31, 134, 136).	an isolated				
1080	Delamination/Spall/Patche	d Are3	2.00	ft	0.00	0.00	2.00	0.00			
	At the north end of East Abutment #2 there is a 2' wide x 7" high x 1' deep spall behind Girder A at the top of the backwall (See photo 134).										
1120	Efflorescence/Rust Staining	3	1.00	ft	0.00	1.00	0.00	0.00			
Both backwalls were observed to have scattered full-height vertical hairline cracks with efflorescence (See photos 30, 31 and 136).											
1130	Cracking (RC and Other)	3	168.00	ft	168.00	0.00	0.00	0.00			
	Both backwalls were ob without efflorescence (S	served to ha See photos 3	ive scattered full 0 and 136).	-height verti	cal hairline crack	s with and					
ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4			
316	Isolation Bearing There are isolation bearin and concrete debris/over approximately 50% of all	3 Igs at the pie -pour from c connections	172.00 ers and both ab construction. Th s exhibit deficies	each utments. Se ere are wide ncies (See p	31.00 veral of the bear espread locations bhotos 35, 42, 49,	129.00 ings exhibit light t s of misalignment 55, 56, 61, 66, 68,	12.00 to moderate rust and 76, 90, 97, 102,	0.00			
316	Isolation Bearing There are isolation bearin and concrete debris/over approximately 50% of all 105, 115, 122, 135 and 137	3 Igs at the pie- pour from c connections 7).	172.00 ers and both ab construction. Th s exhibit deficien	each utments. Se ere are wide ncies (See p	31.00 veral of the bear espread locations shotos 35, 42, 49,	129.00 ings exhibit light f s of misalignment 55, 56, 61, 66, 68,	12.00 to moderate rust and 76, 90, 97, 102,	0.00			
316 1000	Isolation Bearing There are isolation bearing and concrete debris/over approximately 50% of all 105, 115, 122, 135 and 133 Corrosion There are widespread a bridge (See photo 35, 5	3 ags at the pie pour from c connections 7). 3 areas of light 5, 56, 63, 90	172.00 ers and both ab construction. Th s exhibit deficien 4.00 surface rust on 0, 97, 115 and 12	each utments. Se ere are wide ncies (See p each the bearing a 22).	31.00 veral of the bear espread locations shotos 35, 42, 49, 0.00 assembly through	129.00 ings exhibit light f s of misalignment 55, 56, 61, 66, 68, 4.00 nout the	12.00 to moderate rust and 76, 90, 97, 102, 0.00	0.00			
316 1000	Isolation Bearing There are isolation bearing and concrete debris/over approximately 50% of all 105, 115, 122, 135 and 135 Corrosion There are widespread a bridge (See photo 35, 5 At Pier 4 in Span 4, Gird bearing and the Girder bearing exhibits modera	3 ags at the pie pour from of connections 7). 3 areas of light 5, 56, 63, 90 der A bearing H bearing ex ate rust on th	172.00 ers and both ab construction. Th s exhibit deficien 4.00 surface rust on 9, 97, 115 and 12 g exhibits corross hibit light rust (S e masonry plate	each utments. Se ere are wide ncies (See p each the bearing a 22). ion to the ma see photo 55 e (See photo	31.00 veral of the bear espread locations whotos 35, 42, 49, 0.00 assembly through asonry plate. The b). Additionally, G 56).	129.00 ings exhibit light f s of misalignment 55, 56, 61, 66, 68, 4.00 nout the Girder C irder J	12.00 to moderate rust and 76, 90, 97, 102, 0.00	0.00			
316	Isolation Bearing There are isolation bearin and concrete debris/over approximately 50% of all 105, 115, 122, 135 and 133 Corrosion There are widespread a bridge (See photo 35, 5 At Pier 4 in Span 4, Gird bearing and the Girder 1 bearing exhibits modera At Pier 5, the Girder H t	3 ags at the pic- pour from of connections 7). 3 areas of light 5, 56, 63, 90 der A bearing H bearing ex ate rust on the bearing exhibi-	172.00 ers and both ab construction. Th s exhibit deficien 4.00 surface rust on 0, 97, 115 and 12 g exhibits corros hibit light rust (S e masonry plate bits scattered are	each utments. Se ere are wide ncies (See p each the bearing a 22). ion to the ma See photo 55 a (See photo eas of mode	31.00 veral of the bear espread locations shotos 35, 42, 49, 0.00 assembly through asonry plate. The i). Additionally, G 56). rate rust (See pho	129.00 ings exhibit light is s of misalignment 55, 56, 61, 66, 68, 4.00 nout the Girder C irder J pto 61).	12.00 to moderate rust and 76, 90, 97, 102, 0.00	0.00			
316	Isolation Bearing There are isolation bearing and concrete debris/over approximately 50% of all 105, 115, 122, 135 and 133 Corrosion There are widespread a bridge (See photo 35, 5 At Pier 4 in Span 4, Gird bearing and the Girder 1 bearing exhibits modera At Pier 5, the Girder H the At the East Abutment, O the Kicker Beam L bear (See photo 137).	3 ags at the pid- pour from of connections 7). 3 ureas of light 5, 56, 63, 90 der A bearing H bearing exhibits bearing exhibits in bearing exhibits in	172.00 ers and both ab construction. Th s exhibit deficien 4.00 surface rust on 0, 97, 115 and 12 g exhibits corros hibit light rust (S e masonry plate bits scattered are ing exhibits mod moderate to hea	each utments. Se ere are wide ncies (See p each the bearing = 22). ion to the ma see photo 55 e (See photo beas of mode lerate rust (S vy surface rust	31.00 veral of the bear espread locations shotos 35, 42, 49, 0.00 assembly through asonry plate. The b). Additionally, G 56). rate rust (See photo See photo 135). A ust on the mason	129.00 ings exhibit light i s of misalignment 55, 56, 61, 66, 68, 4.00 nout the Girder C irder J pto 61). additionally, ry plate	12.00 to moderate rust and 76, 90, 97, 102, 0.00	0.00			
316 1000	Isolation Bearing There are isolation bearin and concrete debris/over approximately 50% of all 105, 115, 122, 135 and 133 Corrosion There are widespread a bridge (See photo 35, 5 At Pier 4 in Span 4, Gird bearing and the Girder H bearing exhibits modera At Pier 5, the Girder H t At the East Abutment, O the Kicker Beam L bear (See photo 137). Connection	3 Igs at the pid pour from of connections 7). 3 areas of light 5, 56, 63, 90 der A bearing H bearing exhibits bearing exhibits of 3	172.00 ers and both ab construction. The exhibit deficien 4.00 surface rust on 0, 97, 115 and 12 g exhibits corrosi thibit light rust (S e masonry plate bits scattered are ing exhibits mod moderate to hea 57.00	each utments. Se ere are wide ncies (See p each the bearing = 22). ton to the ma see photo 55 e (See photo eas of mode lerate rust (S vy surface rust each	31.00 veral of the bear espread locations whotos 35, 42, 49, 0.00 assembly through assonry plate. The b). Additionally, G 56). rate rust (See photo See photo 135). A ust on the mason 0.00	129.00 ings exhibit light of s of misalignment 55, 56, 61, 66, 68, 4.00 hout the Girder C irder J boto 61). additionally, ry plate 45.00	12.00 to moderate rust and 76, 90, 97, 102, 0.00	0.00			
316 1000	Isolation Bearing There are isolation bearin and concrete debris/over approximately 50% of all 105, 115, 122, 135 and 133 Corrosion There are widespread a bridge (See photo 35, 5 At Pier 4 in Span 4, Gird bearing and the Girder H bearing exhibits modera At Pier 5, the Girder H t At the East Abutment, C the Kicker Beam L bear (See photo 137). Connection The bearing connection Approximately 50% of a anchor bolts nuts are ty locations they are back see attachment "02000 115, 122, 135, 137,).	3 ags at the pid- pour from of connections 7). 3 areas of light 5, 56, 63, 90 der A bearing H bearing exhibits ate rust on the bearing exhibits of 3 hardware con- ing exhibits of 3 hardware con- pically backed ad off up to 1 1 Table 4 - B	172.00 ers and both ab construction. The sexhibit deficient 4.00 surface rust on 0, 97, 115 and 12 g exhibits corrosi hibit light rust (S e masonry plate bits scattered are ing exhibits mod moderate to hea 57.00 onsists of ancho as are either loos ed off from 1/16" -5/8". For specifi earing Defects.p	each utments. Se ere are wide ncies (See p each the bearing = 22). ion to the ma ice photo 55 (See pho	31.00 veral of the bear espread locations whotos 35, 42, 49, 0.00 assembly through asonry plate. The b). Additionally, G 56). rate rust (See photo 56). rate rust (See photo 135). A ust on the mason 0.00 bolts and washer cked off, or missin , but in some isol of anchor bolt de otos 35, 42, 49, 7	129.00 ings exhibit light of s of misalignment 55, 56, 61, 66, 68, 4.00 hout the Girder C irder J boto 61). additionally, ry plate 45.00 rs. ng. The ated ficiencies, 6, 90, 105,	12.00 to moderate rust and 76, 90, 97, 102, 0.00 12.00	0.00			

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Several bearings throughout the structure exhibit misalignment. For specific misalignment locations and measurements, see attachment "020001 Table 4 - Bearing Defects.pdf".

In addition, some girder bottom flanges are not seated flush with the sole plates. Specific deficiencies are as follows:

At Pier 2 in Span 2, the Girder J bearing exhibits a 1/4" 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 in Span 6, the Girder H bearing exhibits a 1/16" gap between the bottom flange and sole plate on the East Face of the bearing (See photo 68).

At Pier 9 in Span 10, the Girder A bearing exhibits a 1/16" gap between the bottom flange and the sole plate.

At Pier 12 in Span 13, the Girder J bearing 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.

ELEM	ELEMENT NAME	ENV	QUANTITY	UNITS	QTY	QTY	QTY	QTY
	Several of the bearings concrete pedestal along the concrete bearing per a few locations (See pho pedestal having an unev Bearing Defects.pdf" for	exhibit gap the edges destal are u oto 68). The ven finish a specific loo	s between the mas of the plate. The ga up to 1/4" high at se gaps are the result these locations. S cations of bearing a	onry plate an aps between everal locatic ilt of the top s see attachme area loss.	nd the top surfa the masonry pl ons and up to 3/ surface of the co ont "020001 Tab	ce of the late and 4" high in oncrete le 4 -		
2240	Loss of Bearing Area	3	40.00	each	0.00	40.00	0.00	0.00
	Several bearings throug 66). For specific deficier Defects.pdf".	hout the str icy location	ucture exhibit com s and details, see a	pressed bea attachment "	ring material (S 020001 Table 4	ee photo - Bearing		
2230	Bulging, Splitting or Tearing	3	2.00	each	0.00	2.00	0.00	0.00

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

The interior diaphragms are numbered from West to East, starting again from 1 in each span. The interior diaphragms and end diaphragms were observed to have scattered areas of yellow to orange rust with scattered locations of concrete debris/over-pour from construction and isolated locations of connection deficiencies. 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 photos 31, 53, 54 and 96).

515	Steel Protective Coating	3	24,200.00	sq.ft	24,200.00	0.00	0.00	0.00							
	The interior diaphragms and end diaphragms are protected by a weathering steel patina.														
	The weathering steel diaphragms exhibit a normal surface patina with some scattered areas														
	of yellow to orange rust. The end diaphragms below the deck joints at the abutments and at														
	Piers #4 and #9 are pair	Piers #4 and #9 are painted. However, the end diaphragm at Pier 9 in Span 10 is not													
	painted on the West Fac	painted on the West Face (See photos 31, 53, 54 and 96).													
	In Span 1, at West Abutment #1 in Bay G there is light rust on the end diaphragm bottom														
	flange (See photo 31).														
	In Span 4 at Pier #4, the	In Span 4 at Pier #4, the end diaphragm in Bay G exhibits corrosion at the top flange and													
	light rust on the bottom	light rust on the bottom of the connection plate to girder H (See photos 53 and 54).													
	In Span 9 at Pier #9, the top flange of the end diaphragm in Bay G was observed to have														
	peeling paint and light ru	ust/corrosio	n due to leakage fr	om the cold	d joint in the deck (See									
	photo 96).														
	In Span 14 Pay H Inter	la Orașe 44. Develul luterica Displanearez 7 schibite asia en estin a a sint (Oraș adaste 400)													
	п эрап 14, вау п, тпег	Diaphra		r peering pa	ann (See photo 128	י).									

1020	Connection	3	1.00	each	0.00	1.00	0.00	0.00

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In several spans, the interior diaphragms in Bay G exhibit plate washers overlapping adjacent washers and slightly bent washers.

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. There is also a 1/2" gap between the bearing stiffener plate and the end diaphragm at both connections.

In Bay G of Span 11, the connection plate from Interior Diaphragm 4 to the North Face of Girder H was observed to have a 7-3/4" high x up to 1/8" bend to the West.

In Span 14, several interior diaphragms were observed to have random filler plates installed at the connections to the girders.

Work Candidates

Assigned to To be assigned			Date	
Status	Priority	Action	Proposed	Notes
Assigned_Age ncy	1	Clean&Flush Deck Drainage	07/21/2023	[CE&C]: Most of the scupper grates and downspouts are either partially or fully clogged. We recommend that these areas be cleaned/flushed to help with the deck drainage.



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EquipmentAerial LiftØBoatØUnderbridgeinspvelScaffoldingScaffoldingBBoesemansChairWWadersIRail Mount ElliotICrash TruckØAir MonitorILadderIBucket TruckIRiggingIFloatsIClimbingIRail Mount Bucket TruckILight TowerI	Poison Ivy L Heavy Vegetation L Hurricane Evac Route ? L Cones Yes Traffic Setup Req Yes Police Req Yes Night Insp Req No Signs Yes Site Access Notes L	Speed Limit 50.00 Prep Time Crew Slize 2 Under Insp Vehicle Time Traffic Control Time 2 Mile Post Crew Days 9 Time Report Time Bucket Truck Time
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 Vert Clear Signs Leg Min Vert Clear Post Vales Min Vert Clear Sign Rec Old Rating and Postings RR Mile Post US DOT/AAR No.	□ -1 -1 02 01 01	Telephone Sewer Cable Oil Fire Alarm OH Lines Present Water Gas Electric Fiber Optic

R	
	OT get you there

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8/22/2023 Bat and Bird Observations									
Bats: BATS OBSERVED No BATS NOTES	BATS VISUAL	BAT DROPPINGS	BAT STAINING	BAT SOUNDS	BAT PHOTOS				
Birds BIRDS OBSERVED		BIRD PHOTOS	BIRDS	SPECIES IDENTI	FIED				
Yes <u>BIRD_NOTES</u>		×		×					
Pigeons and pigeon del	oris was observed t	throughout the bridge a	and on beam seats (See photos 30 and	33).				