

BRIDGE INSPECTION REPORT

Status: Released

Printed On: 7/12/2021

Agency: Other State Agencies

CD Guid: 689ff9de-830d-4f30-adb9-5f3e749655a1

Release Date: 7/12/2021

Program Mgr: Evan M Grimm

Br. No. DOC-7

SID 00200442

Br. Name MCNEIL IS. STILL HARBOR TRESTLE

Carrying

Route On

Mile Post

Intersecting

Route Under

Mile Post

[Handwritten Signature]
Inspector's Signature ABK

Cert # G1220 Cert Exp Date 1/12/2022

[Handwritten Signature]
Co-Inspector's Signature LAW

Inspections Performed

Report Type	Inspection Type	Date	Freq	Hours	Inspector	Cert No	Co-Insp.
Routine		4/27/2021	24	1.0	ABK	G1220	LAW

<input type="checkbox"/>	Alignment (1661)	17	<input type="checkbox"/>	Operating Tons (1552)	<input type="checkbox"/>	Bridge Rails (1684)	<input type="checkbox"/>	No Utilities (2675)	
7	<input type="checkbox"/>	Deck Overall (1663)	<input type="checkbox"/>	Op RF (1553)	<input type="checkbox"/>	Transition (1685)	<input type="checkbox"/>	Asphalt Depth (2610)	
7	<input type="checkbox"/>	Superstructure (1671)	10	<input type="checkbox"/>	Inventory Tons (1555)	<input type="checkbox"/>	Guardrails (1686)	1998 <input type="checkbox"/>	Year Built (1332)
7	<input type="checkbox"/>	Substructure (1676)	<input type="checkbox"/>	Inv RF (1556)	<input type="checkbox"/>	Terminals (1687)	0 <input type="checkbox"/>	<input type="checkbox"/>	Year Rebuilt (1336)
<input type="checkbox"/>	Culvert (1678)	<input type="checkbox"/>	<input type="checkbox"/>	Operating Level (1660)	<input type="checkbox"/>	Bridge Rail Ht (2612)			
<input type="checkbox"/>	Chan/Protection (1677)	<input type="checkbox"/>	<input type="checkbox"/>	Open/Closed (1293)	<input type="checkbox"/>	Design Curb Ht (2611)			
<input type="checkbox"/>	Pier/Abut/Prot (1679)	<input type="checkbox"/>	<input type="checkbox"/>	Structural Eval (1657)					
<input type="checkbox"/>	Waterway (1662)	9	<input type="checkbox"/>	Deck Geometry (1658)					
U	<input type="checkbox"/>	Scour (1680)	9	<input type="checkbox"/>	Underclearance (1659)				

NBIS Risk Category	
Routine: No Risk Category	
Underwater: No Risk Category	

Inspection Flags

<input type="checkbox"/>	Soundings (2693)	<input type="checkbox"/>	Measure Clearance (2694)	<input type="checkbox"/>	Revise Rating (2688)	<input type="checkbox"/>	Photos (2691)	<input type="checkbox"/>	QA Flag (2695)
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BMS Elements

Element	Element Description	Total	Units	CS 1	CS 2	CS 3	CS 4
8102	Concrete Abutment	11	LF	11	0	0	0
8109	Prestressed Concrete Multiple Web Girder Units	360	LF	355	0	5	0
8125	Concrete Submerged Pile/Column	20	EA	20	0	0	0
8132	Concrete Pier Cap/Crossbeam	81	LF	81	0	0	0
8217	Concrete Deck	3520	SF	3520	0	0	0
8361	Scour	8	EA	8	0	0	0
8408	Steel Sliding Plate Joint	11	LF	11	0	0	0
8817	Timber Pedestrian Railing	725	LF	725	0	0	0

Notes

0 ORIENTATION:

The McNeil Island Still Harbor trestle includes the concrete piles and fixed concrete walkway. For location reference: Offshore is north, shore is south, left side is west, and right side is east. Underwater inspections for this facility are not necessary if Routine Inspection is done at low tide.

8102 CONCRETE ABUTMENT:

This abutment consists of a precast deck cantilevered 5' from Pier 1 (photo #3). The retaining wall was previously used as the abutment of the old dock in Still Harbor.

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Notes (Continued)

8109 PRESTRESSED CONCRETE MUTIPLE WEB GIRDER:
 About half of the girders have very light leaching cracks, typically near the piers.
 Span 1 has a leaching crack at Pier 2, 5 lf. (photo #4).
 Pier 2 end diaphragm has a delamination on the right web of Span 1 (photo #5).
 Pier 5 end diaphragm has delamintions adjacent to the interface with the bottom of the P/S girders.
 Pier 7 end diaphragm has a delamination at the left web of Span 7 (photo #6).

8125 CONCRETE SUBMERGED PILE/COLUMN:
 Many of the piles are not placed symmetrically (photo #7). Pier 2 shown in the photo results in a unbalanced loading on the piles.

8132 CONCRETE PIER CAP/CROSSBEAM:
 Pier 3 concrete cap was widened 6" to accommodate misplaced Pile 3A (photo #8).
 Pier 4 and Pier 5 caps both were widened 6" to accommodate misplaced piles (photo #9).

8408 STEEL SLIDING PLATE JOINT:
 Steel sliding plate joint located at beginning of bridge.

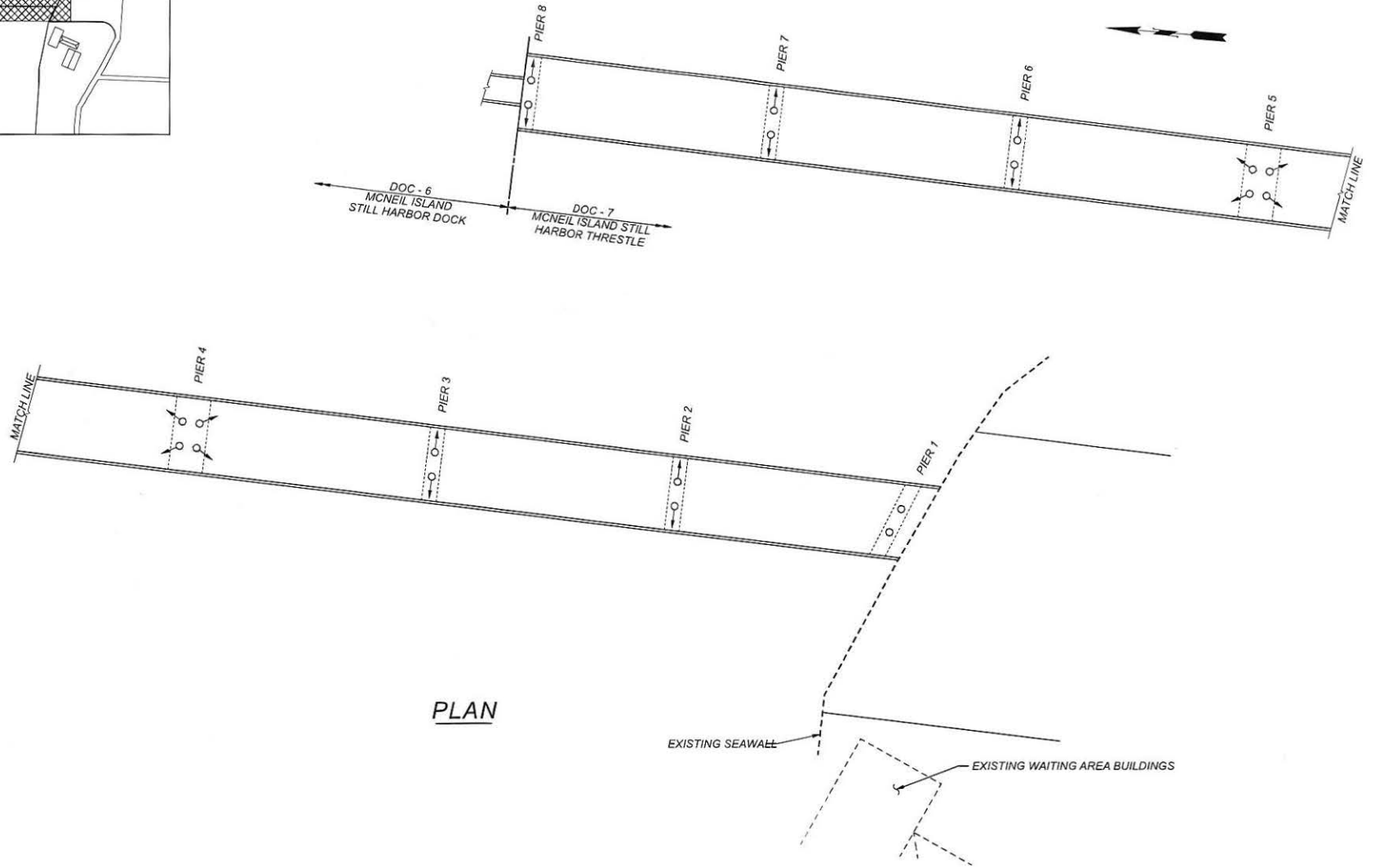
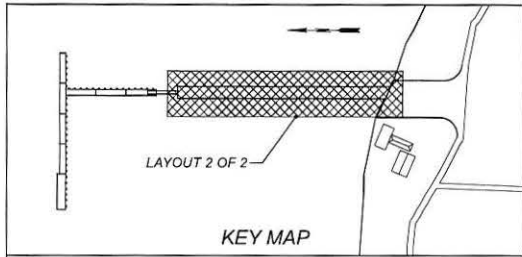
8817 TIMBER PEDESTRIAN RAILING:
 Timber pedestrian rail consisted of 702 lf. on the concrete pier and 23 lf. on the retaining wall.

Repairs

Repair No	Pr	R	Repair Descriptions	BMS	Noted	Maint	Verified
			(No repairs for this structure)				

Inspections Performed and Resources Required

Report Type	Date	Freq	Hrs	Insp	CertNo	Coinsp	Note	
Routine	4/27/2021	24	1.0	ABK	G1220	LAW		
Resources	Hours	Min	Pref	Max	Freq Date	Need Date	Override	Notes
Boat			D					2021 Walked first 5 spans at 0.0 tide. Used boat to complete inspection the following day. No dive inspection (Underwater) needed if walked. A zero tide and waders are sufficient, -1.7 tide in 2015 exposed all piers full height.
Third Party Notification								Schedule inspection with Greg Buikema (DOC) 253-328-3229 or 253-588-5281 (cell). A security clearance must be done for all inspectors prior to landing on the island. This can be done via Greg, provide full name, SS#, and date of birth (DOB).



LEGEND:

- VERTICAL CONCRETE PILE
- ⊗ BATTERED CONCRETE PILE

ROUTINE INSPECTION	UNDERWATER INSPECTION
Date: 4/27/2021	Date: NA
Scale: NA	Scale: NA
Inspected by: ABK/LAW	Inspected by: NA



DOC - 7
MCNEIL ISLAND STILL HARBOR TRESTLE

LAYOUT

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Carrying
Intersecting

Route On
Route Under

Mile Post
Mile Post

SI-1

0 Orientation

Photo Type: E - Elevation

Orientation: NE

Date: 4/18/2013

Repairs:

Still Harbor Trestle looking NE.



SI-2

0 Orientation

Photo Type: E - Elevation

Orientation: SW

Date: 5/23/2013

Repairs:

Trestle elevation looking SW.



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Carrying
Intersecting

Route On
Route Under

Mile Post
Mile Post

SI-3

8102 Concrete Abutment

Photo Type: G - General

Orientation: Left

Date: 5/23/2013

Repairs:

Pier 1 supports 5 ft. of cantilevered precast deck.



SI-4

8109 Prestressed Concrete Multiple Web

Girder Units

Photo Type: G - General

Orientation: Sea

Date: 5/23/2013

Repairs:

Span 1 has a leaching crack at Pier 2.



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SI-5

8109 Prestressed Concrete Multiple Web Girder Units

Photo Type: G - General

Orientation: Sea

Date: 5/23/2013

Repairs:

Pier 2 end diaphragm has a delamination on the right web of Span 1.



SI-6

8109 Prestressed Concrete Multiple Web Girder Units

Photo Type: G - General

Orientation: Shore

Date: 5/23/2013

Repairs:

Pier 7 end diaphragm has a delamination at the left web of Span 7.



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Route Under

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**Carrying
Intersecting**

SI-7

8125 Concrete Submerged Pile-

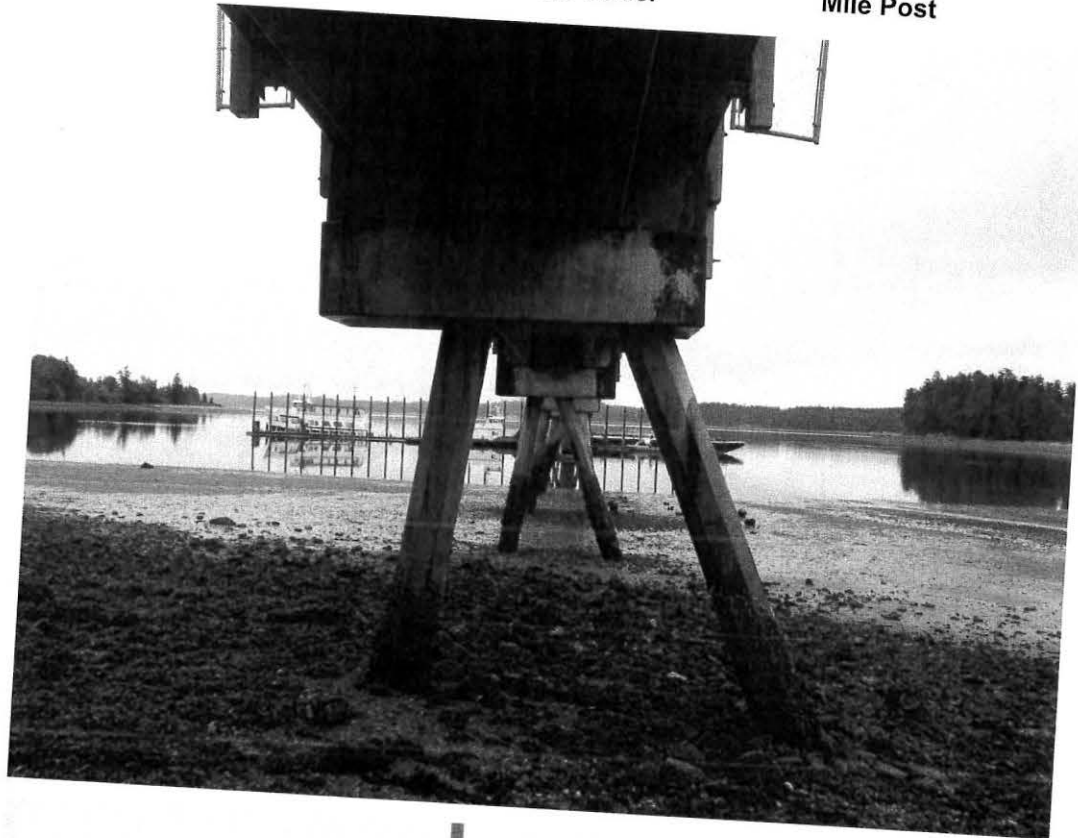
Photo Type: G - General

Orientation: Sea

Date: 5/23/2013

Repairs:

Many of the piles are not placed symmetrically.



SI-8

8132 Concrete Pier Cap-Crossbeam

Photo Type: G - General

Orientation: Left

Date: 5/23/2013

Repairs:

Pier 3 concrete cap was widened 6" to accommodate misplaced Pile 3A.



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SI-9

8132 Concrete Pier Cap-Crossbeam

Photo Type: G - General

Orientation: Sea

Date: 5/23/2013

Repairs:

Pier 4 and Pier 5 caps both were widened 6" to accommodate misplaced piles.



WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
 NBI STRUCTURE INVENTORY AND APPRAISAL REPORT
 (ENGLISH UNITS)

CD Date: 7/6/2021 Printed on: 7/15/2021
 CD Guid: 689ff9de-830d-4f30-adb9-5f3e749655a1

IDENTIFICATION		WSBIS DATA	
(1) STATE NAME - WASHINGTON	530	BRIDGE NUMBER	DOC-7
(8) STRUCTURE NUMBER	# 002004420000000	BRIDGE NAME	MCNEIL IS. STILL HARBOR TRESTL
(5) INVENTORY ROUTE (ON/UNDER) - Under	0 8 0 10210	CUSTODIAN	Other State Agencies
STATE ROUTE MILEPOST	5.96	CROSSING DESC	
(2) HIGHWAY AGENCY DISTRICT -		MAIN LISTING FLAG	M
(3) COUNTY CODE 53 - Pierce County	(4) PLACE CODE 00000	SUFFICIENCY RATING	
(6) FEATURES INTERSECTED		CLASSIFICATION	
(7) FACILITY CARRIED		(112) NBIS BRIDGE LENGTH	
(9) LOCATION	MCNEIL ISLAND	(104) HIGHWAY SYSTEM - Not on the NHS	0
(12) BASE HIGHWAY NETWORK - Not part of network	0	(26) FUNCTIONAL CLASS -	
(13) LRS INV ROUTE AND SUB ROUTE		(100) DEFENSE HIGHWAY - Not a STRAHNET route	0
(11) LRS MILEPOST		(101) PARALLEL STRUCTURE -	
(16) LATITUDE	47 Deg 12 Min 51.26 Sec	(102) DIRECTION OF TRAFFIC - No highway traffic	0
(17) LONGITUDE	122 Deg 39 Min 58.20 Sec	(103) TEMPORARY STRUCTURE - Not Applicable	
(98A) BORDER BR. - (98B)	(99) BORDER BR. SID	(105) FEDERAL LANDS HIGHWAY -	
STRUCTURE TYPE AND MATERIAL		(110) DESIGNATED NATIONAL NETWORK - Not part of network	0
(43) STRUCTURE TYPE MAIN: MATERIAL - DESIGN -		(20) TOLL -	
(44) STRUCTURE TYPE APPR: MATERIAL - DESIGN -		(21) MAINTENANCE -	
(45) NO. OF SPANS IN MAIN UNIT		(22) OWNER -	
(46) NO. OF APPROACH SPANS		(37) HISTORICAL SIGNIFICANCE -	
(107) DECK STRUCTURE TYPE -		CONDITION	
(108) WEARING SURFACE / PROTECTIVE SYSTEM:		(58) DECK	
(A) TYPE OF WEARING SURFACE -		(59) SUPERSTRUCTURE	
(B) TYPE OF MEMBRANE -		(60) SUBSTRUCTURE	
(C) TYPE OF DECK PROTECTION -		(61) CHANNEL AND CHANNEL PROTECTION	
		(62) CULVERTS	
AGE AND SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT	1998	(31) DESIGN LOAD -	
(106) YEAR RECONSTRUCTED		(63) OPER RATING METHOD -	
(42) TYPE OF SERVICE ON - Other	0	(64) OPERATING RATING	
UNDER - Other	0	(65) INV RATING METHOD -	
(28) LANES: ON STRUCTURE 0	UNDER STRUCTURE 0	(66) INVENTORY RATING	
(29) AVERAGE DAILY TRAFFIC	0	(70) BRIDGE POSTING -	
(30) YEAR OF ADT	(109) TRUCK ADT 0%	(41) STRUCT OPEN, POSTED, CLOSED -	
(19) BYPASS, DETOUR LENGTH	000	APPRAISAL	
GEOMETRIC DATA		(67) STRUCTURAL EVALUATION	
(48) LENGTH OF MAXIMUM SPAN		(68) DECK GEOMETRY	
(49) STRUCTURE LENGTH		(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	
(50) CURB OR SIDEWALK: LEFT	RIGHT	(71) WATERWAY ADEQUACY	
(51) BRIDGE ROADWAY WIDTH CURB TO CURB		(72) APPROACH ROADWAY ALIGNMENT	
(52) DECK WIDTH OUT TO OUT		(36) TRAFFIC SAFETY FEATURES	
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)		(113) SCOUR CRITICAL BRIDGE	
(33) BRIDGE MEDIAN -		PROPOSED IMPROVEMENTS	
(34) SKEW Deg	(35) STRUCTURE FLARED	(75) TYPE OF WORK -	
(10) INVENTORY ROUTE MIN VERT CLEAR	99 ft 99 in	(76) LENGTH OF STRUCTURE IMPROVEMENT	
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR		(94) BRIDGE IMPROVEMENT COST	
(53) MIN VERT CLEAR OVER BRIDGE RDW		(95) ROADWAY IMPROVEMENT COST	
(54) MIN VERT UNDERCLEAR		(96) TOTAL PROJECT COST	
(55) MIN LAT UNDERCLEAR RT		(97) YEAR OF IMPROVEMENT COST ESTIMATE	
(56) MIN LAT UNDERCLEAR LT		(114) FUTURE ADT	
NAVIGATION DATA		(115) YEAR OF FUTURE ADT	
(38) NAVIGATION CONTROL -		INSPECTIONS	
(111) PIER PROTECTION - Not Applicable		(90) INSPECTION DATE	(91) FREQUENCY MO
(39) NAVIGATION VERTICAL CLEARANCE		(92) CRITICAL FEATURE INSPECTION:	(93) CFI DATE
(116) VERT-LIFT BRIDGE NAV MIN VERT CLR		(A) FRACTURE CRIT DETAIL - NO -	Month (A) ___/___
(40) NAVIGATION HORIZONTAL CLR		(B) UNDERWATER INSP - NO -	Month (B) ___/___
		(C) OTHER SPECIAL INSP - NO -	Month (C) ___/___