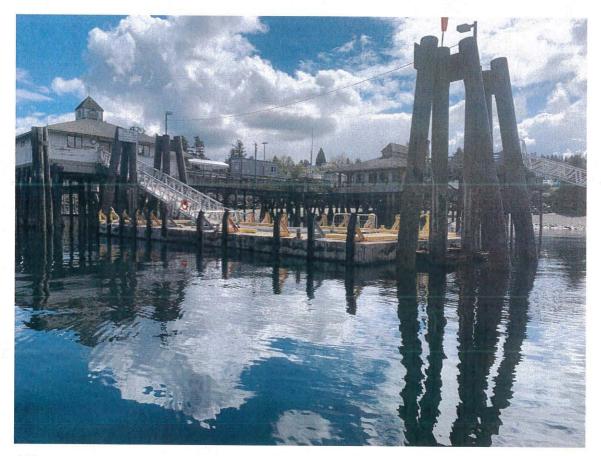


UNDERWATER INSPECTION REPORT FOR

STEILACOOM MOORING FLOAT

BRIDGE NO. DOC-2

STRUCTURE ID 00200437



Prepared For

WA State Dept. of Corrections (DOC)

Inspection Date

April 26, 2021

Lead Inspector/Diver James R. W. Harding Cert. # G0911

Inspector/Diver

Loren A. Wilson



Status: Released

CD Guid: ec7f720e-8c2a-4f0a-a945-250b6f3ff0a3

Printed On: 7/8/2021 CD Date: 4/29/2021 Agency: Other State Agencies Program Mgr: Evan M Grimm

UNDERWATER INSPECTION REPORT FOR THE STEILACOOM MOORING FLOAT

BRIDGE NO. DOC-2 STRUCTURE ID 00200437

EXECUTIVE SUMMARY

The WSDOT Dive Team performed an underwater inspection of the Steilacoom Mooring Float on April 26, 2021. Twelve steel pipe piles and the concrete floating pontoon exterior were inspected by diving.

In general, the steel pipe piles that position the floating concrete pontoon (spud piles) are in fair condition. The epoxy coating is failing in large areas underwater, exposing the steel substrate to corrosion and subsequent section loss. An ultrasonic thickness meter was used to check spot metal thicknesses on the piles and small localized areas exhibited losses of up to 50% of the pipe wall thickness. Since these piles are not bearing vertical loads, this condition does not require repair but will be monitored during future inspections. The concrete floating pontoon had thick marine growth covering up to 80% of the surface area, however spot cleanings of the growth revealed no defects.

No underwater repairs are required at this time. Recommend retaining the 48-month frequency for underwater inspections.

Page 2____ of 8_____

Wash Depa	ington State	nsportation	Daily Site Dive Log
Status: Released		Printed On: 7/8/2021	Agency: Other State Agencies
CD Guid: ec7f720e-8c	2a-4f0a-a945-250b6f	3ff0a3 CD Date: 4/29/2021	Program Mgr: Evan M Grimm
Inspector	James R. W. Har	ding	Date 4/26/2021
Bridge No.	DOC-2	Bridge Name ST	EILACOOM MOORING FLOAT
Bridge Type		Waterway N	Name PUGET SOUND
Dive Objective	Inspection of subr	merged substructure elements	
Diving Opera			
Type of Oper	ation SCUBA	Surface Supplied Air Snorke	el ROV Other
Equipment	Suit	Devouit	
	Air Supply	Dry suit	
	Site Access	Surface Supplied	5
		Munson dive boat - launched	
	mopeonon	ools GoPro camera, D-meter thick	ness gauge, hammer/scraper
Conditions	2		
Water	✓ Salt	Fresh Brackish Ter	nperature48 °F Visibility 15 ft
Surface	✓ Calm	Choppy Rough	
Tide	High	Low Flood Ebb	
Current	Fast	Moderate Slow Velo	ocity < 0.5 ft/sec
Weather	Clear	Cloudy Overcast Rain	Windy Air Temp <u>52</u> °F
Diver Checks	•		
	First Aid	Equipment on Site	Physical Condition of Diver(s) Checked
	✓ Commun	ication for EMS	Communications for Diver(s) Checked
	✓ Dive Gea		 Team Briefed and Understands Dive Plan
	✓ Air Sourc		Special Site Hazards Noted
	Contraction of the second s	ity Safety Plan Reviewed	✓ Line-Tending Procedures Reviewed
		9 Addendum to PASP	
	d Dive Team P Inditions and dete		on-site pre-dive safety meeting to discuss and plan

dive operation, determine roles and responsibilities, review emergency procedures, and check physical condition of diver(s). Assemble and check dive gear. Check communication for diver(s). After completion of dive, review notes, check condition of diver(s), take soundings and photos as required.



Daily Site Dive Log

Status: Released

Printed On: 7/8/2021

Agency: Other State Agencies

CD Guid: ec7f720e-8c2a-4f0a-a945-250b6f3ff0a3

CD Date: 4/29/2021

Program Mgr: Evan M Grimm

Dive Schedule

Dive No.	Entry Time	Exit Time	Total Time in Water	Maximum Depth	Remarks
1	09:05:00	10:51:00	01:46:00	23 fsw*	Loren inspected all of DOC-2 and DOC-1 in this one dive.

Dive Narrative

The team converged at Zittel's Marina and proceeded to prepare the boat and gear. A pre-activity safety plan was discussed and team roles for the inspection were decided upon. A surface-supplied air (SSA) diver operation was chosen and after the appropriate gear was loaded, the boat was launched and the team proceeded to motor east, around the southern tip of the Key Peninsula, and along the west side of Anderson Island, to the inspection location on the south side of McNeil Island. The boat was moored to the concrete pontoon floats, and after making contact with DOC personnel on-site, the diver was geared up and checked. The diver splashed and began the inspection at Spud Pile Group 2 at the east inshore end of the floats, and proceeded around counterclockwise to Groups 1, 3, and 4. The bottom and sides of the concrete pontoon floats were also given a swim-by inspection, although heavy marine growth impaired the visual inspection. Notes and findings were relayed to support personnel on the dive boat via hardwired communications in the umbilical. Depths and photos were taken as necessary. Passenger ferry boat traffic was monitored to ensure the safety of the diver during boat arrivals and departures. Once all underwater elements had been inspected, the diver was recovered to the boat, where his physical condition was checked. All notes and photos were reviewed for completeness prior to leaving the site.

* fsw = feet sea water

Dive Diver Air IN/OUT (psig) 1 LAW 3600/2900

Dive Team Members

James R. W. Harding, P.E.	Notes / Comms.
(Name)	(Role)
Loren A. Wilson, P.E.	Diver
(Name)	(Role)
Darren O. Nebergall, P.E.	Standby Diver
(Name)	(Role)
Richard M. Pawelka, P.E.	DPIC
(Name)	(Role)

Washington State Department of Transportation

Underwater Inspection Report

Status: Released

Printed On: 7/8/2021 Agency: Other State Agencies

CD Guid: ec7f720e-8c2a-4f0a-a945-250b6f3ff0a3

CD Date: 4/29/2021 Program Mgr: Evan M Grimm

Т

				3.5	
Inspector	James R. W. Harding	Agency/Owner WA Sta	te Dept. of ions (DOC)		4/26/2021
Bridge No.	DOC-2			, COOM MOORING FLOAT	
Bridge Type		Waterw	ay Name	PUGET SOUND	
Substructure	Steel Pipe Piles	Founda	ation	Steel Pile Piles	
No. Spans	1	No. Piers Dived 4		Inspection Hours	2.0

4 Substru

Substructure Condition (1676)

8

Chan/Protection (1677)

Scour Code (1680)

		BMS Ele	ments				
Element	Element Description	Total	Units	State 1	State 2	State 3	State 4
8361	Scour	4	EA	4	0	0	(
8701	Ferry Concrete Floating Pontoon	8	CELL	0	0	7	
8703	Spud Piling & Wells	12	EA	0	0	12	(
8902	Protective Coating - Piling	2200	SF	1230	0	970	(
8910	Safety Access Ladders	1	EA	1	0	0	(
		Note	s				
0	ORIENTATION: The Steilacoom Mooring Float includes t For location reference: Offshore is north						
1676	SUBSTRUCTURE: Substructure set to '4' due to pontoon ce	Is in Condition S	tate 4.				
1677	CHANNEL: This structure abuts another structure an restrictions to water flow past the structu		ect to the s	horeline directly	y. No bank iss	sues noted. N	0
1680	SCOUR: Structure is in tidal waters with weak and for scour. See note 8361.	d variable tidal cur	rrents. Sco	our code set to	"T - tidal" and	is considered	a low risk
8361	SCOUR (Field): There are four spud pile groups.						
	Underwater Inspection Findings: Water flow in the vicinity is tidal. No sco piles.	ur patterns or sco	our counter	measures were	e observed arc	ound the float	or spud

Washington State Department of Transportation

Underwater Inspection Report

Status: Released Printed On: 7/8/2021 Agency: Other State Agencies

CD Guid: ec7f720e-8c2a-4f0a-a945-250b6f3ff0a3 CD Date: 4/29/2021 Program Mgr: Evan M Grimm

Inspector	James R. W. Harding	Agency/Owner WA State	Dept. of		4/26/2021
Bridge No.	DOC-2		1.5	COOM MOORING FLOAT	
Bridge Type		Waterwa	y Name	PUGET SOUND	
Substructure	Steel Pipe Piles	Foundat	ion	Steel Pile Piles	2
No. Spans	1	No. Piers Dived 4		Inspection Hours	2.0

			Notes (Con	tinued)						
8701	FERRY CONCRETE FLOATING PONTOON:									
	INTERIOR:	mooring floot ware	steve d douber the O	047						
	#7 & #8).	mooring float were e	entered during the 2	017 inspection	(see layout sheet for c	ell numbering) (photos				
	The cell at the spud plates (photo #9) (C	CS4). Marty Rankin ir and 2019 that all cells	nformed us in 2013	that cell #5 is p	some signs of leaking pumped regularly. DO ping depths should be	at the interior connectior C employees told the racked, REPAIRS				
			k in the base tab a	nd Cell #5 has	a broken hold down tal	o (photos #11 and #12).				
	Cell #5 spud pile we	ell connections have r	rust and some secti	on loss (photo	#13).					
	Cell #8 also has spu	ud pile well connectio	n plates on the inte	rior. These pla	tes are slightly unders	ized resulting in the bolts				
	not having a solid a	nchor base (photo #1	4).							
	WATER DEPTH TE	ACKING (T = some	o ponding to <1" do							
	DATE CELL 1	2 3		7 8						
	5/22/2013 1			ТТ						
	4/20/2015 - cell ha	tches not opened in 2	2015 (48 month fre	quency)						
	4/24/2017 3/4	+" 1-1/4" 1-1/2" 1- * *		1" 1"						
	4/08/2019 - *		* 4" *	* *						
	*cell hatches not opened in 2019 (48 month frequency), Cell #5 water depth measured from deck.									
	EXTERIOR:									
	Offshore exterior top edge is spalled 10' of its length with patching of half its length.									
	Many of the bumper	Many of the bumper attachments have minor distortions, repairs, or have been replaced. Offshore right side bumper has								
	broken welds (photo	broken welds (photo #30).								
	Hatch bolts missing on all hatches in 2019. Holes have been corked (photo #33). Also noted in photo #33 of Cell #7									
	hatch lift handle is broken. REPAIR #10003.									
	FLOATER FOUR CORNER DRAFT MEASUREMENTS									
	DATE CORNER OFFSHORE RT OFFSHORE LT SHORE RT SHORE LT									
	5/22/2013	30"	30"	29.5"	29"					
	4/20/2015	28.5"	29-3/4"	28"	28.5"					
	4/24/2017	29"	27"	29"	27.5"					
	4/08/2019	29.5"	29"	29"	27"					
	No significant chang	e found between 201	13 and 2019.							
	I had a second as here a set	— •• 1.								
	Underwater Inspecti		waterline is trained							
	The concrete pontoon surface below the waterline is typically about 80% covered in marine growth up to 1-ft. thick. Spot cleaning of growth revealed no defects (photo UW-5).									
	cleaning of growth r	avaalad na dafaata (n	boto LIVA/ 5)							

Washington State Department of Transportation Status: Released Printed On: 7/8/2021 Agency: Other State Agencies

CD Guid: ec7f720e	-8c2a-4f0a-a945-250b6f3ff0a	3 CD Date: 4/	29/2021 Pro	ogram Mgr: Evan M Grimm	
Inspector	James R. W. Harding		State Dept. ections (DC		4/26/2021
Bridge No.	DOC-2		en th ora and an and a state of the state of	ACOOM MOORING FLOAT	
Bridge Type		Wate	erway Nam	e PUGET SOUND	
Substructure	Steel Pipe Piles	Fou	ndation	Steel Pile Piles	
No. Spans	1	No. Piers Dived	4	Inspection Hours	2.0

						No	tes (C	ontinu	ied)				
S	Spud P Spud P	PILING & WELLS: Pile #3 (SP3), typical well connection. Undersized washers at slotted bolt holes (photo #19). Pile #4 (SP4), base plate does not sit flush to concrete float (photo #23). Pile #4 well (SP4) collar is tipped due to loose sliding bolts, worn bolts, or worn slots (photos #31 and #32). REPAIR											
S n a fu	pud pi oted. reas fo re not uture ir	ling : Thicl or co a str ispee	kness meas mparison. L ructural conc	ally fair uremen Jp to 50 cern sind onitor th	condition ts of the s % metal t ce the spu nese losse	steel w hickne ud pile: es (pho	vere take ess has t s do not otos UW	n in local been lost carry ver -3, UW-4	ized area in some tical load , UW-7 a	as of corros of the sma ds and are and UW-8)	oss was the mo sion and pitting all pitted areas. for pontoon po . Refer to atta	g as well as These sec	n good tion losses v although
S U S 7: m ai	pud pi Inderw pud pi 5% of netal si nd Pile	le co ater les h the p ubstr lnsp	bile surface a rate which is pection Data	sing with Findings degress area (co corrodi a Sheets	n laminar : s of coatir vating in p ng and los	ng failu lace b sing se	ure and I ut ineffe	oss unde ctive). Ce hotos UV	rwater. pating is V-4. UW-	The coatin missing in -6 and UW	gs have adhes large areas as -7). Refer to a	well expos	ing the
			CESS LADI		tween SP	P3 and	SP4 has	s rust blo	oms.				
							Rep	airs					
Repair No	Pr	R		R	epair De	script	ion			BMS	Noted	Maint	Verified
			(No repairs for this structure)										
			ln In	spect	ions P	erfoi	rmed a	and Re	sourc	es Requ	uired		
<u>Report Type</u> Underwater	Report Type <u>Date</u> <u>Freq</u> <u>Hrs</u> <u>Insp</u> <u>CertNo</u> <u>Coins</u>		Coinsp	Under Frequ	Note Underwater inspection by WSDOT Dive Team. Frequency set at 48 months to correspond with every- other routine inspection.								
Resources	Ηοι	irs	Min	Pref	Max	Fre	eq Date	Ne	ed Date	Override	Notes		

	hington State artment of Transp	portation	Unde	erwater Inspec	tion Report
Status: Released	I	Printed On: 7	/8/2021 A	gency: Other State Agencies	
CD Guid: ec7f720e	-8c2a-4f0a-a945-250b6f3ff0a	3 CD Date: 4	/29/2021 Program	m Mgr: Evan M Grimm	
Inspector	James R. W. Harding		State Dept. of rections (DOC)	Date	4/26/2021
Bridge No.	DOC-2	Bridge Na	me STEILAC	COOM MOORING FLOAT	
Bridge Type		Wa	terway Name	PUGET SOUND	
Substructure	Steel Pipe Piles	Fou	Indation	Steel Pile Piles	
No. Spans	1	No. Piers Dived	4	Inspection Hours	2.0
Third Party Notification Primary Safety	4/8/2019 24	1.0 JHL D2016		Buikema (DOC 588-5281 (cell A security clea all inspectors	france must be done for prior to landing on the an be done via Greg. Safety inspection
Resources Ho	ours Min Pref	Max Freq Date	Need Date	override Notes	- 17 Augustan - Salahan - Salah
Boat					or inspection. Kvichek ing 2019 inspection.
Special Equipment				Enter the eigh electronic wind by DOC maint Harness and a Last done in 2	t float cells with an ch on a tripod provided enance personnel. air monitor is required. 017, DOC enters these asis, inspect in 2021.
Third Party Notification		K.		Buikema (DOC 588-5281 (cell A security clea all inspectors island. This ca	ection with Greg C) 253-328-3229 or 253- I). arance must be done for prior to landing on the an be done via Greg, me, SS#, and date of

Page 8 of 8

BRIDGE INSPECTION REPORT

Status: Released

CD Guid: ec7f720e-8c2a-4f0a-a945-250b6f3ff0a3

Printed On: 7/8/2021 Release Date: 6/22/2021 Agency: Other State Agencies

Program Mgr: Evan M Grimm

 Br. No. DOC-2
 SID 00200437
 Br. Name STEILACOOM MOORING FLOAT

 Carrying
 Route On
 Mile Post

 Intersecting
 PUGET SOUND
 Mile Post

 UW-5
 VW-5
 VW-5

8701 Ferry Concrete Floating PontoonPhoto Type:I - In DepthOrientation:UPDate:4/24/2017Repairs:Heavy marine growth on concrete pontoon.





UW-3

8703 Spud Pi	ling & Wells
Photo Type:	I - In Depth
Orientation:	
Date:	5/22/2013
Repairs:	
1211 M . 17 Day	100 0010 00 00 00 40-0

Typical coating failure/rust blooming on spud piles (SP1A shown).

BRIDGE INSPECTION REPORT Printed On: 7/8/2021

Agency: Other State Agencies

Br. Name STEILACOOM MOORING FLOAT

Release Date: 6/22/2021

SID 00200437

Program Mgr: Evan M Grimm

Br. No. DOC-2

Carrying

Intersecting PUGET SOUND

CD Guid: ec7f720e-8c2a-4f0a-a945-250b6f3ff0a3

UW-4

8703 Spud Piling & Wells

Photo Type: I - In Depth

Orientation:

Date: 5/22/2013

Repairs:

More advanced corrosion and section loss on steel spud pile. SP3B thickness reading 0.300"



Mile Post Mile Post





UW-7

8703 Spud Pili	ng & Wells
Photo Type:	I - In Depth
Orientation:	Sea
Date:	4/26/2021
Repairs:	

SP4 Pile B has 50% coating failure from MDL to MDL +3.



BRIDGE INSPECTION REPORT

Br. Name STEILACOOM MOORING FLOAT

Route On

Route Under

Page 3 of 4

Mile Post

Mile Post

Status: Released

CD Guid: ec7f720e-8c2a-4f0a-a945-250b6f3ff0a3

Printed On: 7/8/2021 Release Date: 6/22/2021

SID 00200437

Program Mgr: Evan M Grimm

Agency: Other State Agencies

Br. No. DOC-2

Carrying

Intersecting PUGET SOUND

UW-8

 8703 Spud Piling & Wells

 Photo Type:
 I - In Depth

 Orientation:
 DN

 Date:
 4/26/2021

 Repairs:
 SP4 Pile B has deep pitting at MDL +2.





8902 Inorganic	Zinc Vinyl Paint
Photo Type:	G - General
Orientation:	Shore
Date:	5/22/2013
Repairs:	

Steel Spud piles have lost protective coat in the intertidal zone.



BRIDGE INSPECTION REPORT

Mile Post

Mile Post

Status: Released

CD Guid: ec7f720e-8c2a-4f0a-a945-250b6f3ff0a3

Printed On: 7/8/2021

SID 00200437

Agency: Other State Agencies

Br. Name STEILACOOM MOORING FLOAT

Route On

Route Under

Release Date: 6/22/2021

Program Mgr: Evan M Grimm

Br. No. DOC-2

Carrying

Intersecting PUGET SOUND

UW-6

8902 Inorganic Zinc Vinyl Paint

Photo Type: G - General

Orientation:

Date: 4/24/2017

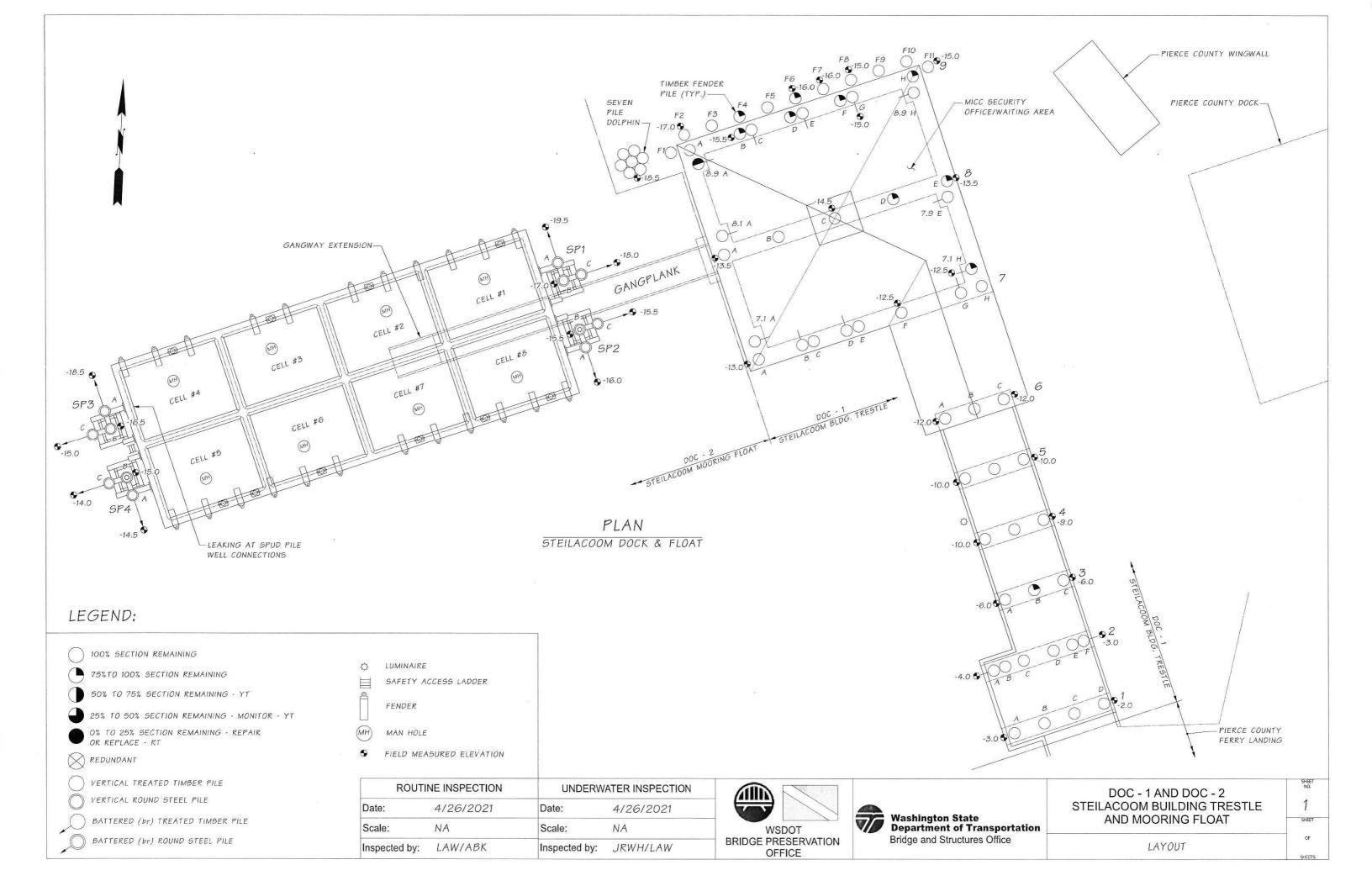
Repairs:

Typical coating failure and corrosion occuring on spud piling underwater (approx. 50% failure shown).





and the second s		4/26/2021	Lead:	JRWH	Co: LAW		
		4/26/2021 Lead		LAW Co: ABK			
			Condition/Damage			Inspection Type	
Bent	Pile	Pile Type	MDL EI.	Defect Location	Details/Remarks	Routine/UW	Date
					PILE INSPECTION DATA - Float Spud Pile Groups		
SP1	A	Steel	-19.5		25% coating failure/loss. Thickness readings 0.455"/0.300" See Photo #UW-3 (typical coating failure/loss).	UW	4/26/2021
	В	Steel	-17	11.4 C	50% coating failure/loss. Thickness readings 0.445"/0.315"	UW	4/26/2021
	С	Steel	-18	MDL+3	50% coating failure/loss. Thickness readings 0.465"/0.340" (2021)	UW	4/26/2021
SP2	A	Steel	-16		25% coating failure/loss. Thickness reading 0.250" in small corroded area. Good area reading 0.485"	UW	4/26/2021
	В	Steel	-15.5	MDL+16	25% coating failure/loss. Up to 50% area adhesion failure. Thickness readings 0.470"/0.415" Up to 0.125" pitting in the dent in the pile.	UW	4/26/2021
	с	Steel	-15.5	MDL+1	25% coating failure/loss. Up to 50% area adhesion failure. Thickness reading 0.450"/0.255" (2021).	UW	4/26/2021
SP3	A	Steel	-18.5	MDL+1	25% coating failure/loss. 50% area adhesion failure. Thickness reading 0.470"/0.350" (2021).	UW	4/26/2021
	В	Steel	-16.5		50% coating failure. Thickness reading 0.300" in pitted area. Photo #UW-4.	UW	4/26/2021
	С	Steel	-15		10% coating failure. Up to 50% adhesion failure. Thickness readings 0.470" (good)/0.370" (in pitted area).	UW	4/26/2021
SP4	A	Steel	-14.5	MDL+1	25% coating failure/loss. Up to 75% area adhesion failure. Thickness readings 0.410"/0.300" (2021)	UW	4/26/2021
	В	Steel	-15	MDL to +3 MDL +2	25% coating failure/loss. 50% coating failure. Thickness readings 0.480"/0.290" (2021).	UW	4/26/2021
	С	Steel	-14		25% coating failure/loss. 0.390"/0.250" (in small pitted area).	UW	4/26/2021
Counts	Steel =	12					



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

CD Date: 4/29/2021 Printed on: 7/8/2021 CD Guid: ec7f720e-8c2a-4f0a-a945-250b6f3ff0a3

1.1.1	STATE NAME WASHINGTON	FION 520	
	STATE NAME - WASHINGTON	530	BRIDGE NUMBER DOC-2
		# 002004370000000	BRIDGE NAME STEILACOOM MOORING FLOAT
(5)	INVENTORY ROUTE (ON/UNDER) - Under	0 8 0 10210	CUSTODIAN Other State Agencies
(0)	STATE ROUTE MILEPOST	5.96	CROSSING DESC
0.0	HIGHWAY AGENCY DISTRICT -		MAIN LISTING FLAG M
8 P.	COUNTY CODE 53 - Pierce County	(4) PLACE CODE 00000	SUFFICIENCY RATING
	FEATURES INTERSECTED	PUGET SOUND	CLASSIFICATION
	FACILITY CARRIED		(112) NBIS BRIDGE LENGTH
	LOCATION		(104) HIGHWAY SYSTEM - Not on the NHS
(12)	BASE HIGHWAY NETWORK - Not part of netwo	ork 0	(26) FUNCTIONAL CLASS -
(13)	LRS INV ROUTE AND SUB ROUTE		(100) DEFENSE HIGHWAY - Not a STRAHNET route
(11)	LRS MILEPOST		(101) PARALLEL STRUCTURE -
(16)	LATITUDE	47 Deg 10 Min 21.98 Sec	(102) DIRECTION OF TRAFFIC -
(17)	LONGITUDE	122 Deg 36 Min 13.89 Sec	(103) TEMPORARY STRUCTURE - Not Applicable
98A)	BORDER BR (98B) (99)	BORDER BR. SID	(105) FEDERAL LANDS HIGHWAY -
	STRUCTURE TYPE A	ND MATERIAL	(110) DESIGNATED NATIONAL NETWORK - Not part of network
(43)	STRUCTURE TYPE MAIN: MATERIAL -		(20) TOLL -
	DESIGN -		(21) MAINTENANCE -
(44)	STRUCTURE TYPE APPR: MATERIAL -		(22) OWNER -
	DESIGN -		(37) HISTORICAL SIGNIFICANCE -
(45)	NO. OF SPANS IN MAIN UNIT		CONDITION
(46)	NO. OF APPROACH SPANS		(58) DECK
107)	DECK STRUCTURE TYPE -		(59) SUPERSTRUCTURE
108)	WEARING SURFACE / PROTECTIVE SYSTEM	1	(60) SUBSTRUCTURE
(A)	TYPE OF WEARING SURFACE -		(61) CHANNEL AND CHANNEL PROTECTION
(B)	TYPE OF MEMBRANE -		(62) CULVERTS
(C)	TYPE OF DECK PROTECTION -		LOAD RATING AND POSTING
	AGE AND SE	RVICE	(31) DESIGN LOAD -
(27)	YEAR BUILT	1996	(63) OPER RATING METHOD -
106)	YEAR RECONSTRUCTED		
(42)			(64) OPERATING RATING
1-1	TYPE OF SERVICE ON - Other	0	(65) INV RATING METHOD -
()	TYPE OF SERVICE ON - Other UNDER - Other	0	
			(65) INV RATING METHOD -
(28)	UNDER - Other	0	(65) INV RATING METHOD - (66) INVENTORY RATING
(28) (29)	UNDER - Other LANES: ON STRUCTURE 0	0 UNDER STRUCTURE 0	(65) INV RATING METHOD - (66) INVENTORY RATING (70) BRIDGE POSTING -
(28) (29) (30)	UNDER - Other LANES: ON STRUCTURE 0 AVERAGE DAILY TRAFFIC	0 UNDER STRUCTURE 0 0	(65) INV RATING METHOD - (66) INVENTORY RATING (70) BRIDGE POSTING - (41) STRUCT OPEN, POSTED, CLOSED -
(28) (29) (30)	UNDER - Other LANES: ON STRUCTURE 0 AVERAGE DAILY TRAFFIC YEAR OF ADT	0 UNDER STRUCTURE 0 0 (109) TRUCK ADT 0% 000	 (65) INV RATING METHOD - (66) INVENTORY RATING (70) BRIDGE POSTING - (41) STRUCT OPEN, POSTED, CLOSED - APPRAISAL
(28) (29) (30) (19)	UNDER - Other LANES: ON STRUCTURE 0 AVERAGE DAILY TRAFFIC YEAR OF ADT BYPASS, DETOUR LENGTH	0 UNDER STRUCTURE 0 0 (109) TRUCK ADT 0% 000	(65) INV RATING METHOD - (66) INVENTORY RATING (70) BRIDGE POSTING - (41) STRUCT OPEN, POSTED, CLOSED - <u>APPRAISAL</u> (67) STRUCTURAL EVALUATION
(28) (29) (30) (19) (48)	UNDER - Other LANES: ON STRUCTURE 0 AVERAGE DAILY TRAFFIC YEAR OF ADT BYPASS, DETOUR LENGTH GEOMETRIC	0 UNDER STRUCTURE 0 0 (109) TRUCK ADT 0% 000	 (65) INV RATING METHOD - (66) INVENTORY RATING (70) BRIDGE POSTING - (41) STRUCT OPEN, POSTED, CLOSED - APPRAISAL (67) STRUCTURAL EVALUATION (68) DECK GEOMETRY
(28) (29) (30) (19) (48) (49)	UNDER - Other LANES: ON STRUCTURE 0 AVERAGE DAILY TRAFFIC YEAR OF ADT BYPASS, DETOUR LENGTH GEOMETRIC LENGTH OF MAXIMUM SPAN	0 UNDER STRUCTURE 0 0 (109) TRUCK ADT 0% 000	 (65) INV RATING METHOD - (66) INVENTORY RATING (70) BRIDGE POSTING - (41) STRUCT OPEN, POSTED, CLOSED - APPRAISAL (67) STRUCTURAL EVALUATION (68) DECK GEOMETRY (69) UNDERCLEARANCES, VERTICAL & HORIZONTAL
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UNDERWATER INSPECTION PROCEDURES SUMMARY SHEET

Bridge Name:	
Bridge Number:	
Structure ID:	
Owner:	
Marine Environment:	
Substructure Units Inspec	ted:
Scour Mitigation Present:	
Bridge Site Orientation:	

Steilacoom Mooring Float DOC-2 00200437 DOC Saltwater Concrete Float and Steel Spud Piles None See attached bridge layout sheet(s)

Substructure and Foundation Type(s):

Float

Concrete

Inspection Procedures:

Level I Inspection:	Visual inspection of 100% of structural members full length for cracks, abrasion, spalling, mechanical damage, exposed reinforcing steel, and rust stains. Sound members with a hammer to detect delaminations, hollow spots, or soft concrete.
Level II Inspection:	Clean several 12 in. x 12 in. areas of all marine growth on the bottom, and sides of the floating pontoon.
	Use hand tools to remove delaminated or soft concrete to determine extent of damage. For structures with extensive deterioration or damage WSDOT will contract with Consultants to core drill concrete to determine structure condition.

Spud Piles

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Steel

Inspection Procedure:

Level I Inspection:	Visual inspection of 100% of structural members full length. Note condition of epoxy coating and/or level of corrosion. Check for impact damage.
Level II Inspection:	Clean a 12 in. band of all marine growth at the mudline, mid-depth, and intertidal zone of 10% of the piles in a bent, with one pile per bent minimum.
Level III Inspection:	For critical structural members or inconclusive Level I and/or II Inspections, measure the steel member thickness with an ultrasonic thickness gauge to determine section remaining.

Scour Critical (Y/N):

