Washington State Department of Transportation

Transportation Building
310 Maple Park Avenue S.E.
P.O. Box 47300
Olympia, WA 98504-7300
360-705-7000
TTY: 1-800-833-6388
www.wsdot.wa.gov

August 20, 2019

Krystal Rodriguez
Toxics Cleanup Program
Department of Ecology
Northwest Regional Office
913 Squalicum Way #101
Bellingham, WA 98225

Re: Notification of contamination discovery SR20/Deception Pass & Canoe Pass - Bridge Painting Project

Dear Ms. Rodriguez:

In accordance with Chapter 173-340-300 Washington Administrative Code (WAC) Model Toxics Control Act (MTCA), this memorandum (memo) informs you of the discovery of soil contamination from Washington State Department of Transportation (WSDOT) right-of-way (Deception Pass Bridge) located on State Route (SR) 20 in Island County, Washington (See attached Figures). This discovery event took place during a preliminary field investigation at the request of the WSDOT Mount Baker Project Office.

On August 2, 2019, WSDOT Hazardous Materials Program Staff (HazMat) observed paint chips and other debris in the soils located below the north and south ends of the Deception Pass Bridge (Bridge). The HazMat Program proceeded to collect one soil sample from underneath the north side of the Bridge and one from the underneath the south side of the Bridge (DP-N-1 & DP-S-1).

Both samples were submitted to the OnSite Environmental Inc. located in Redmond, Washington. The samples were analyzed for Resource Conservation and Recovery Act (RCRA) 8 Metals (EPA Method 6010), for MTCA compliance. Based on the analytical laboratory sampling results, Lead was found in concentrations exceeding the MTCA Method A cleanup level (CULs) for unrestricted land use (250 mg/kg) in sample DP-N-1 (320 mg/kg) and DP-S-1 (570 mg/kg). To determine if the samples designated as Dangerous Waste, a Toxicity Characteristic Leaching Procedure (TCLP) was requested in accordance with WAC 173-303-90. Based on the analytical laboratory TCLP results, Lead concentration were found to be below the Dangerous Waste threshold of 5 mg/L.

Based on the results of the TCLP, there does not appear to be an immediate threat to human health and/or the environment in the areas sampled, as this material did not designate as Dangerous Waste. The source of the lead paint chips in the soils underneath the Bridge will be mitigated by the bridge paint removal and repainting project. The WSDOT will install a cap and traction material over pedestrian access points, this is required to limit potential exposure via inhalation or other pathways.

The bridge painting contractor Eagle Industrial Painting, LLC is scheduled to complete the work in July 2020, at which time the WSDOT proposes to begin remediation of contaminated soils.

If you have any questions about this site, please contact me at 360-570-6696.

Sincerely,

Benjamin Wilkinson

Hazardous Materials Program Manager
WSDOT, Environmental Services Office

BW:bw
Attachments

cc: Ronald Burke, Mount Baker Northwest Region Project Office

Jeffery Kamps, Northwest Region Environmental Services Office

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

August 8, 2019

Trent Ensminger
Washington State Department of Transportation
HAZ-MAT
2214 RW Johnson Road SW; MS 47332
Tumwater, WA 98512-6111

Re: Analytical Data for Project Deception Pass Bridge Painting
Laboratory Reference No. 1908-021

Dear Trent:

Enclosed are the analytical results and associated quality control data for samples submitted on August 2, 2019.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: August 8, 2019
Samples Submitted: August 2, 2019
Laboratory Reference: 1908-021
Project: Deception Pass Bridge Painting

Case Narrative

Samples were collected on August 2, 2019 and received by the laboratory on August 2, 2019. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: August 8, 2019
Samples Submitted: August 2, 2019
Laboratory Reference: 1908-021
Project: Deception Pass Bridge Painting

TOTAL METALS
EPA 6010D/7471B

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**DP-S-1**					
Laboratory ID:	08-021-01					
Arsenic	**12**	10	EPA 6010D	8-2-19	8-2-19	
Barium	**84**	2.6	EPA 6010D	8-2-19	8-2-19	
Cadmium	**ND**	0.52	EPA 6010D	8-2-19	8-2-19	
Chromium	**59**	0.52	EPA 6010D	8-2-19	8-2-19	
Lead	**570**	5.2	EPA 6010D	8-2-19	8-2-19	
Mercury	**ND**	0.26	EPA 7471B	8-5-19	8-5-19	
Selenium	**ND**	10	EPA 6010D	8-2-19	8-2-19	
Silver	**ND**	1.0	EPA 6010D	8-2-19	8-2-19	
Client ID:	**DP-N-1**					
Laboratory ID:	08-021-02					
Arsenic	**ND**	10	EPA 6010D	8-2-19	8-2-19	
Barium	**46**	2.6	EPA 6010D	8-2-19	8-2-19	
Cadmium	**ND**	0.52	EPA 6010D	8-2-19	8-2-19	
Chromium	**41**	0.52	EPA 6010D	8-2-19	8-2-19	
Lead	**320**	5.2	EPA 6010D	8-2-19	8-2-19	
Mercury	**ND**	0.26	EPA 7471B	8-5-19	8-5-19	
Selenium	**ND**	10	EPA 6010D	8-2-19	8-2-19	
Silver	**ND**	1.0	EPA 6010D	8-2-19	8-2-19	

Date of Report: August 8, 2019
Samples Submitted: August 2, 2019
Laboratory Reference: 1908-021
Project: Deception Pass Bridge Painting

TOTAL METALS
EPA 6010D/7471B
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0802SM1					
Arsenic	**ND**	10	EPA 6010D	8-2-19	8-2-19	
Barium	**ND**	2.5	EPA 6010D	8-2-19	8-2-19	
Cadmium	**ND**	0.50	EPA 6010D	8-2-19	8-2-19	
Chromium	**ND**	0.50	EPA 6010D	8-2-19	8-2-19	
Lead	**ND**	5.0	EPA 6010D	8-2-19	8-2-19	
Selenium	**ND**	10	EPA 6010D	8-2-19	8-2-19	
Silver	**ND**	1.0	EPA 6010D	8-2-19	8-2-19	
Laboratory ID:	MB0805S1					
Mercury	**ND**	0.25	EPA 7471B	8-5-19	8-5-19	

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	07-364-01									
	ORIG	DUP								
Arsenic	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Barium	**33.8**	**31.4**	NA	NA		NA	NA	7	20	
Cadmium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Chromium	**21.6**	**19.7**	NA	NA		NA	NA	9	20	
Lead	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Selenium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Silver	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Laboratory ID:	08-021-02									
Mercury	**ND**	**ND**	NA	NA		NA	NA	NA	20	

MATRIX SPIKES										
Laboratory ID:	07-364-01									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	**102**	**99.1**	100	100	ND	**102**	**99**	75-125	2	20
Barium	**131**	**128**	100	100	33.8	**97**	**94**	75-125	2	20
Cadmium	**44.1**	**43.8**	50.0	50.0	ND	**88**	**88**	75-125	1	20
Chromium	**115**	**118**	100	100	21.6	**93**	**96**	75-125	3	20
Lead	**233**	**231**	250	250	ND	**93**	**92**	75-125	1	20
Selenium	**91.3**	**91.2**	100	100	ND	**91**	**91**	75-125	0	20
Silver	**21.7**	**21.4**	25.0	25.0	ND	**87**	**85**	75-125	1	20
Laboratory ID:	08-021-02									
Mercury	**0.522**	**0.518**	0.500	0.500	0.0229	**100**	**99**	80-120	1	20

Date of Report: August 8, 2019
Samples Submitted: August 2, 2019
Laboratory Reference: 1908-021
Project: Deception Pass Bridge Painting

TCLP LEAD
EPA 1311/6010D

Matrix: TCLP Extract
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**DP-S-1**					
Laboratory ID:	08-021-01					
Lead	**0.70**	0.20	EPA 6010D	8-7-19	8-7-19	
Client ID:	**DP-N-1**					
Laboratory ID:	08-021-02					
Lead	**1.6**	0.20	EPA 6010D	8-7-19	8-7-19	

Date of Report: August 8, 2019
Samples Submitted: August 2, 2019
Laboratory Reference: 1908-021
Project: Deception Pass Bridge Painting

TCLP LEAD
EPA 1311/6010D
QUALITY CONTROL

Matrix: TCLP Extract
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0807TM1					
Lead	**ND**	0.20	EPA 6010D	8-7-19	8-7-19	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	07-249-03										
	ORIG	DUP									
Lead	**45.0**	**44.4**	NA	NA		NA		NA	1	20	
MATRIX SPIKES											
Laboratory ID:	07-249-03										
	MS	MSD	MS	MSD		MS	MSD				
Lead	**54.3**	**53.5**	10.0	10.0	45.0	**93**	**85**	75-125	2	20	

Date of Report: August 8, 2019
Samples Submitted: August 2, 2019
Laboratory Reference: 1908-021
Project: Deception Pass Bridge Painting

% MOISTURE

Client ID	Lab ID	% Moisture
DP-S-1	08-021-01	5
DP-N-1	08-021-02	3

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

Page 1 of 1

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: WSDOT
Project Number:
Project Name: Deception Pass Bridge Painting
Project Manager: TRENT ENSMINGER
Sampled by: TRENT + BEN

Turnaround Request (in working days)
(Check One)
☐ Same Day ☒ 1 Day
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 08-021

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals (6A1)	HEM (oil and grease) 1664A					% Moisture
1	DP-S-1	8/2/19	0910	Soil	1														X		X						X
2	DP-N-1	8/2/19	0914	Soil	1														X		X						X

	Signature	Company	Date	Time
Relinquished		WSDOT	8/2/19	11:46
Received		OSE	8/2/19	1146
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
(X) RUN TCLP ON EXCEEDENCES
(X) Added 8/6/19. DB (2 day TAT)

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

SEC. 26, T.34N., R.1E., W.M.

SR 20

DP-S-1

EXISTING PEDESTRIAN CABLE RAIL SYSTEM AT SIDEWALK CURB LINES, FULL LENGTH OF BRIDGE (TO REMAIN)

EXISTING WATERLINE SYSTEM WESTSIDE OF ABUTMENT SHALL NOT BE PAINTED.

B BR16

A BR14

DECEPTION PASS

ISLAND COUNTY | SKAGIT COUNTY

36 PANELS AT 25'-0" = 900'-0" FROM ℄ PIER 3 TO ℄ PIER 6

10 MILES TO OAK HARBOR

EXISTING WATERLINE SYSTEM ALONG EAST SIDE OF ABUTMENT SHALL BE PAINTED. SEE BRIDGE SHT. BR6 AND BR7 FOR DETAILS.

22'-0" ROADWAY (TWO 11'-0" LANES)

3'-6" SIDEWALK (TYP.)

7 (TYP.)

WHIDBEY ISLAND

EXISTING WATER LINE BELOW SIDEWALK OVERHANGS. SEE BRIDGE SHT. BR6 AND BR7 FOR PAINT DETAILS.

EXISTING MAINTENANCE MONORAIL AT BOTTOM OF BRIDGE FLOOR SYSTEM. SEE BRIDGE SHT. BR8 FOR REMOVAL DETAILS.

PLAN

LIMITS OF BRIDGE PAINTING AND REHABILITATION

175'-0" SPAN 3

550'-0" SPAN 4

PIER 3

PIER 4

PANEL POINT NODE AT EACH TRUSS (TYP.)

WHIDBEY ISLAND

U0 U1 U2 U3 U4 U5 U6 U7 U8 U9 U10 U11 U12 U13 U14 U15 U16 U17 U18

REPLACE EXISTING ANCHOR BOLT NUTS AT FIXED BEARING (TYP. AT EACH TRUSS)

410' NAVIGATIONAL CHANNEL OPENING

111'

144'

MEAN LOW-LOW WATER ELEV. = 0.0

MEAN HIGH-HIGH WATER ELEV. = 9.3

ELEVATION

1 CORRODED MEMBERS OF EXISTING SWAY FRAMES BETWEEN TRUSS PANEL POINT NODES. SEE BRIDGE SHT. BR9 FOR REPLACEMENT DETAILS.

2 CORRODED TOP CHORD OF WEST TRUSS. SEE BRIDGE SHT. BR11 FOR REPAIR DETAILS.

3 CORRODED GUSSET PLATE FOR TOP LATERALS. SEE BRIDGE SHT. BR10 AND BR12 FOR REPAIR DETAILS.

5 CORRODED BRIDGE DECK DRAIN DOWNSPOUT AT EACH TRUSS UNLESS NOTED OTHERWISE. SEE BRIDGE SHT. BR14 AND BR15 FOR REPLACEMENT DETAILS.

6 BRIDGE DECK DRAIN SYSTEM TO BE CLEANED OUT.

7 CONCRETE SIDEWALK AND CURB JOINTS. SEE BRIDGE SHT. BR16 FOR SEALANT DETAILS.

DP-S-1

RCRA 8 Metals	mg/Kg
Arsenic	12
Barium	84
Chromium	59
Lead	570

TCLP	mg/L
Lead	0.70 passed

SR ____ FILE NO. ____ SHEET BR3

Bridge Design Engr.	Khaleghi, B	M:\Z-Team\BR 20-204 & 20-207 PAINTER\window files\LAYOUT DECEPTION 1.wnd									
Supervisor	Zeldenrust, RP						REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Designed By	Olson, DE 09/18						10	WASH.			
Checked By	Swett, G 09/18						JOB NUMBER 18A021				
Detailed By	Evans, A 09/18										
Bridge Projects Engr.							CONTRACT NO.				
Prelim. Plan By											
Architect/Specialist		DATE	REVISION	BY	APP'D						

Tue Oct 23 12:33:04 2018

BRIDGE AND STRUCTURES OFFICE

RICHARD P. TELDEN STATE OF WASHINGTON PROFESSIONAL ENGINEER 10/23/18

Washington State Department of Transportation

SR 20
DECEPTION PASS AND CANOE PASS BRIDGES
PAINTING & SPECIAL REPAIR
DECEPTION PASS BR. NO 20/204

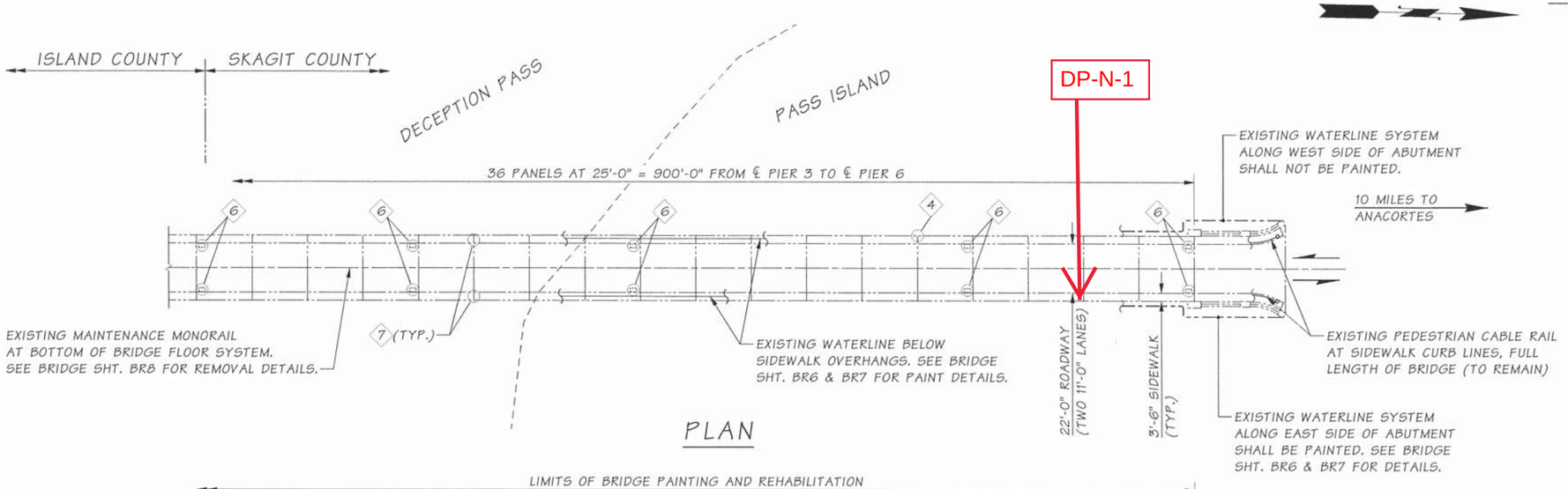
LAYOUT 1 OF 2

BRIDGE SHEET NO. BR3

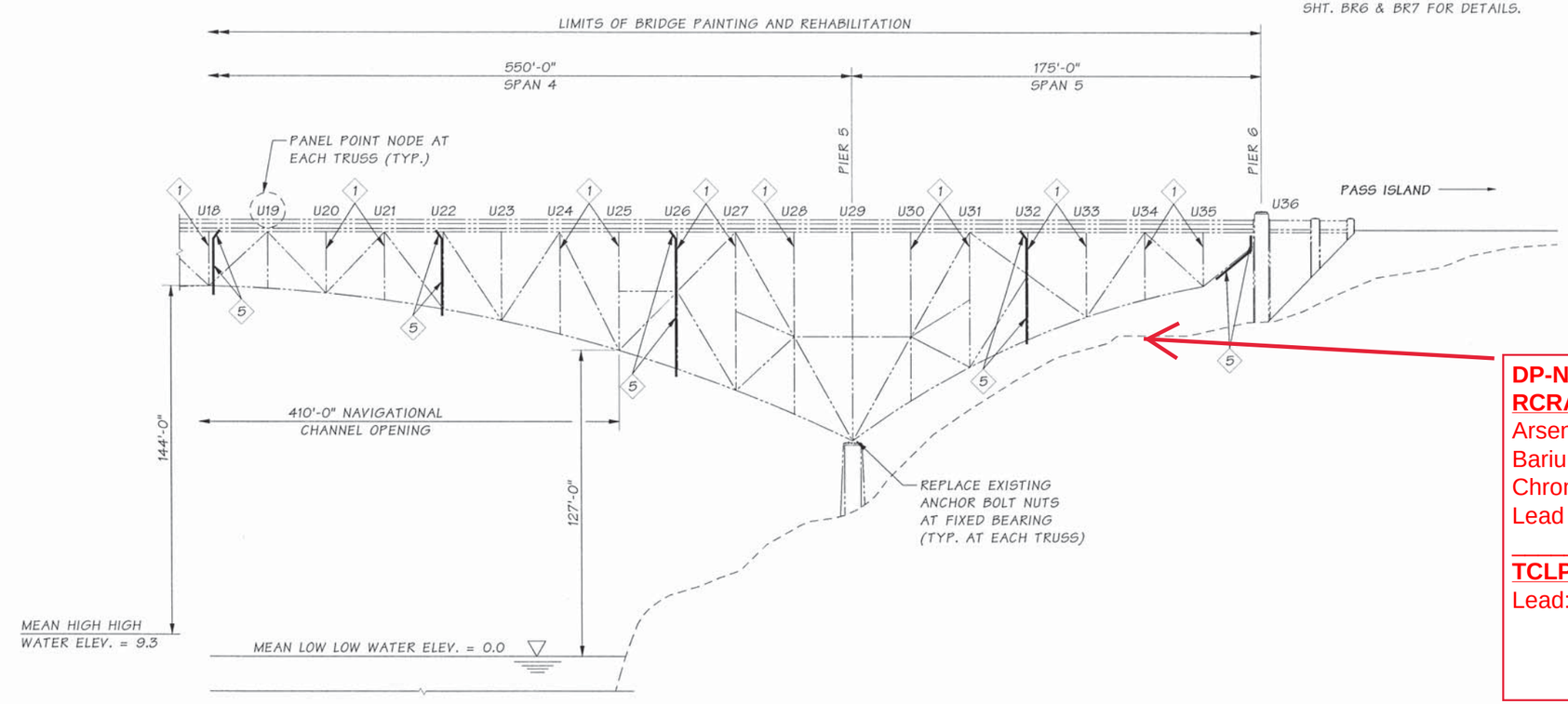
SHEET 15 OF 43 SHEETS

SEC. 26, T.34N., R.1E., W.M.

SR 20



PLAN



ELEVATION

DP-N-1

RCRA 8 Metals	mg/Kg
Arsenic	ND
Barium	46
Chromium	41
Lead	320

TCLP	mg/L
Lead:	1.6 Passed

SR ____ FILE NO. ____ SHEET BR4

Bridge Design Engr.	Khaleghi, B		M:\Z-Team\BR 20-204 & 20-207 PAINTER\window files\LAYOUT DECEPTION 2.wnd							
Supervisor	Zeldenrust, RP									
Designed By	Olson, DE	09/18								
Checked By	Swett, G	09/18								
Detailed By	Evans, A	09/18								
Bridge Projects Engr.										
Prelim. Plan By										
Architect/Specialist			DATE	REVISION		BY	APP'D			

REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
10	WASH.			
JOB NUMBER 18A021				
CONTRACT NO.				

Tue Oct 23 12:33:06 2018

BRIDGE AND STRUCTURES OFFICE

RICHARD P. ZELDENRUST STATE OF WASHINGTON 19870 REGISTERED PROFESSIONAL ENGINEER

10/23/18

Washington State Department of Transportation

SR 20
DECEPTION PASS AND CANOE PASS BRIDGES
PAINTING & SPECIAL REPAIR
DECEPTION PASS BR. NO 20/204

LAYOUT 2 OF 2

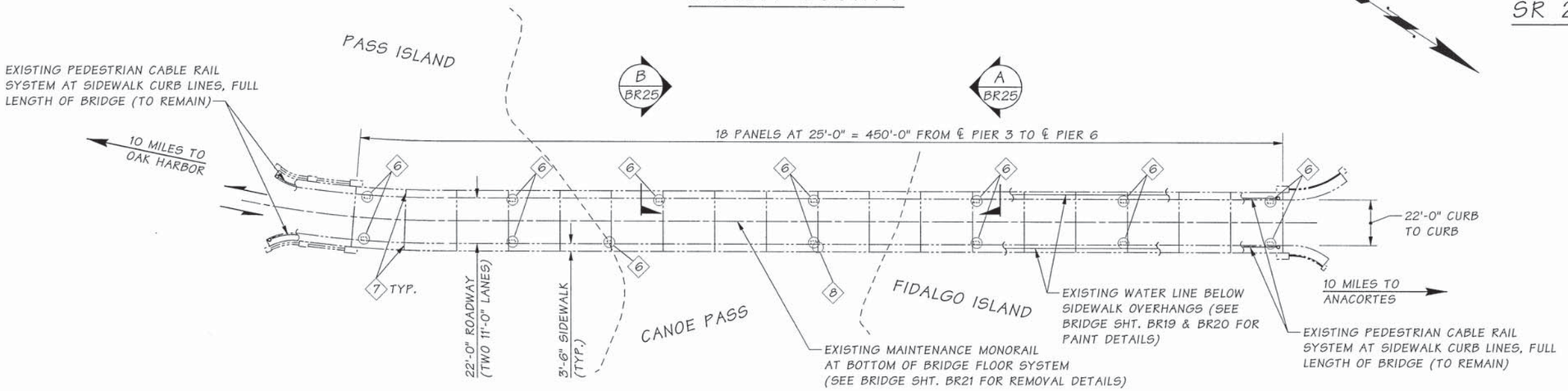
BRIDGE SHEET NO. BR4

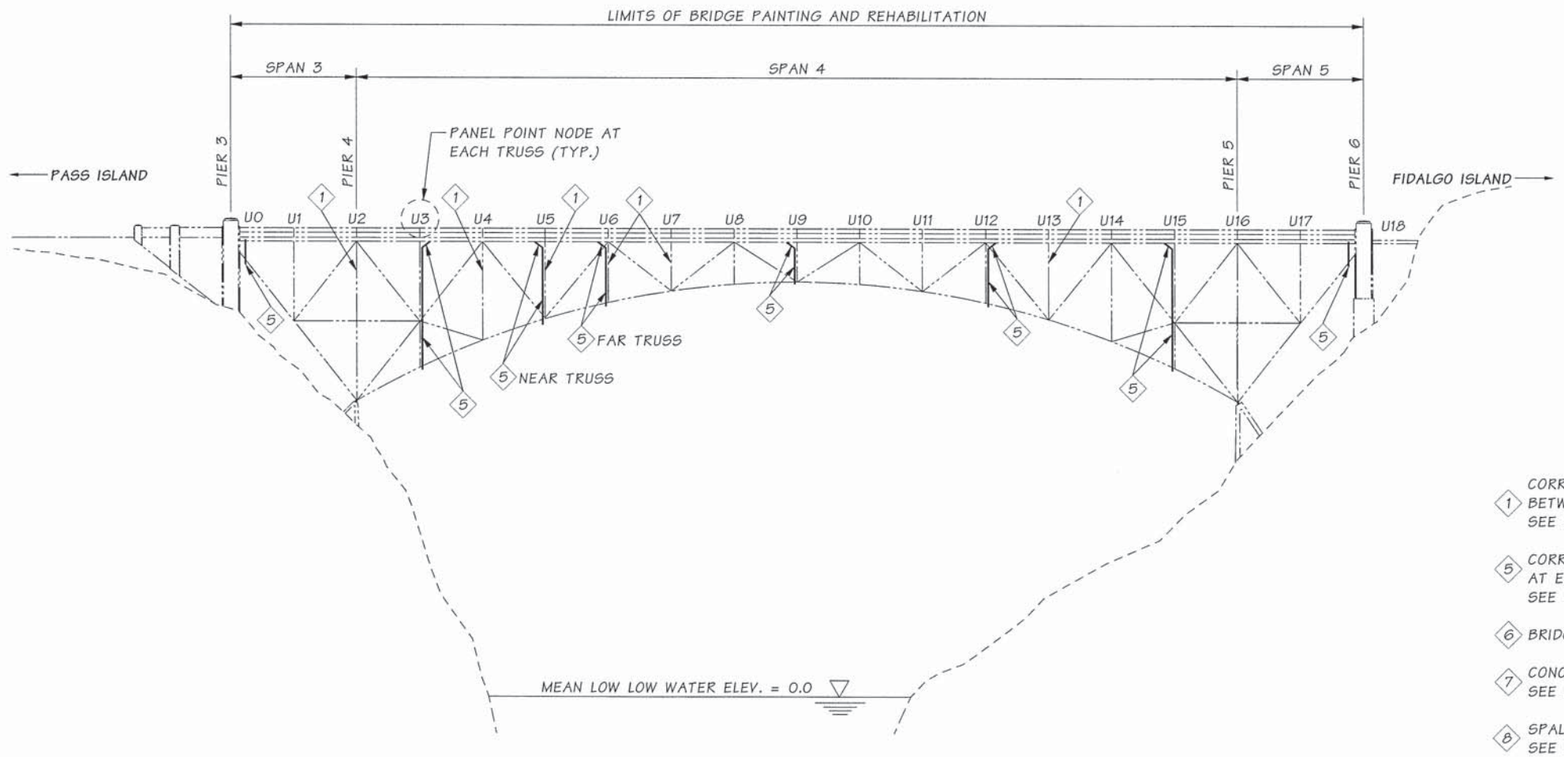
SHEET 16 OF 43 SHEETS

SEC. 26, T.34N., R.1E., W.M.

SKAGIT COUNTY

SR 20





DEVELOPED ELEVATION

1 CORRODED MEMBERS OF EXISTING SWAY FRAMES BETWEEN TRUSS PANEL POINT NODES. SEE BRIDGE SHT. BR22 FOR REPLACEMENT DETAILS.

5 CORRODED BRIDGE DECK DRAIN DOWNSPOUT AT EACH TRUSS UNLESS NOTED OTHERWISE. SEE BRIDGE SHT. BR26 & BR27 FOR REPLACEMENT DETAILS.

6 BRIDGE DECK DRAIN SYSTEM TO BE CLEANED OUT.

7 CONCRETE SIDEWALK AND CURB JOINTS. SEE BRIDGE SHT. BR27 FOR SEALANT DETAILS.

8 SPALLED CONCRETE SIDEWALK AND CURB. SEE BRIDGE SHT. BR27 FOR REPAIR DETAILS.

SR ___ FILE NO. ___ SHEET BR17

Bridge Design Engr.	Khaleghi, B		M:\Z-Team\BR 20-204 & 20-207 PAINTER\Window files\LAYOUT CANOE 1.WND				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	Zeldenrust, RP						10	WASH.			
Designed By	Olson, DE	09/18					JOB NUMBER 18A021				
Checked By	Swett, G	09/18					CONTRACT NO.				
Detailed By	Evans, A	09/18									
Bridge Projects Engr.											
Prelim. Plan By											
Architect/Specialist			DATE	REVISION	BY	APP'D					

Fri Oct 19 14:42:21 2018

BRIDGE AND STRUCTURES OFFICE

JILLIAN KHALEGHI STATE OF WASHINGTON PROFESSIONAL ENGINEER

10/19/18

Washington State Department of Transportation

SR 20
DECEPTION PASS AND CANOE PASS BRIDGES
PAINTING & SPECIAL REPAIR
CANOE PASS BR. NO 20/207

LAYOUT

BRIDGE SHEET NO. BR17

SHEET 29 OF 43 SHEETS