



Letter of Transmittal

RECEIVED

JAN 21 2016

PW Utilities

Snohomish County Public Works
Engineering Services

3000 Rockefeller Ave, MS 607
Everett, WA 98201
Phone: 425-388-3488
Fax: 425-388-6670

Date: 12/28/2015
Attn: James Kelly, P.E.
Public Works Director
Re: 2015 Inspection Reports
Job #: _____

To: City of Arlington
238 N Olympic Ave.
Arlington, WA 98223-1337

ARL-01

We are sending you:

- | | |
|---|---|
| <input checked="" type="checkbox"/> Attached | <input type="checkbox"/> Plans |
| <input type="checkbox"/> Under Separate Cover | <input type="checkbox"/> Specifications |
| <input type="checkbox"/> Change Order | <input type="checkbox"/> Copy of Letter |
| <input type="checkbox"/> Other | <input type="checkbox"/> Prints |

COPIES	DATE	DESCRIPTION
1	2015	Arl-01 (South Slough #91) Bridge Inspection Report

These are Transmitted as Checked:

- For Your Use
- For Review & Use
- As Requested
- Returned for Correction
- Approved as Noted
- Other _____

REMARKS
Please retain report in your bridge files.
For questions call Darrell Ash, P.E. 425-388-6688, or Mike Zitkovich 425-754-9937.

Signed

Mike Zitkovich

BRIDGE INSPECTION REPORT

Ver Date: 09/28/2015

Agency: ARLINGTON

Status: **Released**

Printed On: 12/21/20

Program Mgr: Roman G. Peralta

Bridge No. ARL-01

Page: 1/2

Structure Type

Bridge Name SOUTH SLOUGH #91

Route 96855

Location .3 S JCT SR 530

Structure ID 08084500

MilePost 9.40

Intersecting SOUTH SLOUGH

Mike Johnson

Mari Suetter

Inspector's Signature

MPZ

IDent# G1331

Co-Inspector's Signature

MMA

										Inspections Performed				
										IT	NT	HRS	Date	Rep Type
4	<input type="checkbox"/>	Structural Adqcy (657)	N	<input type="checkbox"/>	Pier/Abut/Protect (679)	1918	Year Built	(332)						
4	<input type="checkbox"/>	Deck Geometry (658)	8	<input type="checkbox"/>	Scour (680)	2007	Year Rebuilt	(336)	Y	24	2.0	09/15/2015	Routine	
9	<input type="checkbox"/>	Underclearance (659)	9	<input type="checkbox"/>	Retaining Walls (682)	28	<input type="checkbox"/>	Oper Rating (551)					Fract Crit	
5	<input type="checkbox"/>	Operating Level (660)	9	<input type="checkbox"/>	Pier Protection (683)	17	<input type="checkbox"/>	Inv Rating (554)					Underwater	
8	<input type="checkbox"/>	Alignment Adqcy (661)	1	<input type="checkbox"/>	Bridge Rails (684)	A	<input type="checkbox"/>	Open Close (293)					Special	
8	<input type="checkbox"/>	WaterwayAdqcy (662)	1	<input type="checkbox"/>	Transition (685)	9999	<input type="checkbox"/>	Vert Over Deck (360)					Interim	
8	<input checked="" type="checkbox"/>	Deck Overall (663)	1	<input type="checkbox"/>	Guardrails (686)	0000	<input type="checkbox"/>	Vert Under (374)					Equipment	
9	<input type="checkbox"/>	Drains Condition (664)	1	<input type="checkbox"/>	Terminals (687)	N	<input type="checkbox"/>	Vert Und Code (378)					Damage	
8	<input checked="" type="checkbox"/>	Superstructure (671)	Y	<input type="checkbox"/>	Revise Rating (688)	3.00	<input type="checkbox"/>	Asphalt Depth					Safety	
0	<input type="checkbox"/>	Number Utilities (675)		<input type="checkbox"/>	Photos Flag (691)	40	<input type="checkbox"/>	Speed Limit					Short Span	
5	<input type="checkbox"/>	Substructure (676)		<input type="checkbox"/>	Soundings Flag (693)									
6	<input type="checkbox"/>	Chan/Protection (677)		<input type="checkbox"/>	Measure Clearance (694)									
9	<input type="checkbox"/>	Culvert (678)												
										Total: 2.0				
										Suff Rating: 43.43		43.40		

BMS Elements

Element	Element Description	Total	Units	State 1	State 2	State 3	State 4
26	Concrete Deck w/Coated Bars	7168	SF	7168	0	0	0
35	Concrete Deck Soffit	7168	SF	7166	0	2	0
145	Earth Filled Concrete Arch	256	LF	226	0	30	0
330	Metal Bridge Railing	512	LF	512	0	0	0
340	Metal Pedestrian Railing	512	LF	512	0	0	0
361	Scour	0	EA	0	0	0	0
800	Asphaltic Concrete (AC) Overlay	7168	SF	7168	0	0	0

Notes

0	Oriented south to north.
11	Administrative load rating should be reviewed (see Sno. Co. BR-650 file for example).
26	Deck: 32 precast concrete panels x 8' wide x 31' long 1' thick with epoxy-coated rebar (2007). Not visible for inspection due to ACP overlay.

BRIDGE INSPECTION REPORT

Ver Date: 09/28/2015

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Status: Released

Printed On: 12/21/20

Program Mgr: Roman G. Peralta

Bridge No. ARL-01

Page: 2/2

Structure Type

Bridge Name SOUTH SLOUGH #91

Route 96855

Location .3 S JCT SR 530

Structure ID 08084500

MilePost 9.40

Intersecting SOUTH SLOUGH

35	Only visible at overhangs. Counting from the south: panels 7, 9, & 24 on the west side, and panels 16, 18, & 23 on the east side all with minor amounts of random hairline leaching cracks visible from below. Panel 23 - east (midspan on north arch) also has a spall/delam of 2 sf but no exposed rebar. Continue to monitor for more delamination/spalling.
145	(2) Luten arches end-to-end (1918 and 1920). Fill was removed during 2007 rehabilitation and replaced with low density fill concrete. Heavy leaching from longitudinal joints on undersides of both arches with stalactites up to 2' max. The west side of both arches at pier 2 has a heavy concentration of leaching horizontal cracks. Other misc. leaching cracks scattered throughout both arches. Approx. 30 lf of exposed corroded rebar with probable section loss on underside of north arch, and minor amounts on south arch. There are some areas of honeycombed concrete on both arches.
330	Rail: Snohomish County standard square tube steel railing , curb-mounted (2007) with light corrosion in places.
340	Steel tube pedestrian and bike railing mounted above bridge railing with light corrosion starting.
361	Channel mostly serves as flood relief. May be muddy with puddled water in winter. No signs of scour.
672	Fair condition - cracking/spalling at precast curb edges at 20+ varied locations. Curbs out of alignment vertically in many places due to rehab sawcutting.
673	Had a timber sidewalk @ east side originally - only anchor bolts remain.
677	Channel overgrown with brush and small trees. Normally muddy but dry during 2015 inspection.
680	No history of scour. Very low velocity flows during flooding.
686	Approach rail added at all four corners of the bridge as part of deck rehabilitation project in 2007, with ET-Plus terminals at two leading ends.
687	All four delineators are missing.
800	ACP overlay (2007). minor transverse cracks at approaches and a few scattered throughout deck - most with sealant in them.

Repairs

Repair No	Pr	R	Repair Description	Noted	Maint	Verified
10000	1	B		01/28/10		

Inspections Performed and Resources Required

<u>Report Type</u>	<u>Date</u>	<u>IT</u>	<u>Frg</u>	<u>Hrs</u>	<u>Insp</u>	<u>CertNo</u>	<u>Coinsp</u>	<u>Note</u>
Routine	09/15/15		24	2.0	MPZ	G1331	MMA	Bridge annexed by City of Arlington in 2009. Deck widened from 22.4' to 31' during 2007 rehab.
Resources	Use	Hour	Min	Req	Max	Notes		

ARL-01 SOUTH SLOUGH #91

Bridge Name

Report Types | NBI | BMS | Notes | Repairs | Photos | Files | Letters | WB71 | WB72 | WB73 | WB74 | WB75 | WB76 | WB78

- SALK RIVER #414
- S.F. Stlagaanish River
- CHAPPELL
- SOUTH SLOUGH #91**
- PORTAGE CREEK #247
- Crown Ridge Blvd.
- NORTH CREEK #1
- NORTH CREEK #3
- NORTH CREEK #4
- MONTE VILLA PARKWAY
- NORTH CREEK PARKWA...
- NORTH CREEK PARKWA...
- NE 19TH STREET BRIDGE
- 102ND AVE UC
- SAMMAMISH RIVER BRJ...

Rep	..	Rp	Repair Description	Noted	Maint	Verified	I	Photo
10000	1	0	Clean rebar and install drypack @ spalls, typ. (+/- 20 sf)	1/28/2010			<input checked="" type="checkbox"/>	Photo
4296	2	0	Replace concrete baluster rails/widen deck.	9/2/2003	9/19/2007	9/19/2007	<input type="checkbox"/>	Photo



**Washington State
Department of Transportation
WSBIS Inventory Report**

12/21/2015

Structure Identifier	Bridge Number	Owner Code	County Number	City Number	Update
0 8 0 8 4 5 0 0	A R L - 0 1	0 4	3 1	0 0 4 5 0	

WB	Bridge Name	Location	Section	Township	Range	Latitude	Longitude
7	S O U T H S L O U G H # 9 1	. 3 S J C T S R 5 3 0	0 8	3 1	0 5 E	4 8 ° 1 1 ' 0 6 . 0 0	1 2 2 ° 1 1 ' 3 6 . 0 0

WB	Feature Intersected	Facilities Carried	Region	FIPS Place Code	Legis District (1)	Legis District (2)	Toll	Custodian	Structure	Temporary Structure	Critical Facility	Median	Hist Sig	Open Closed	Program Year
7	S O U T H S L O U G H	S M O K E Y P O I N T B L V D	N W	0 2 5 8 5	3 9	0 3	0 4	N			<input checked="" type="checkbox"/>	0 5	A		

WB	Year Built	Year ReBuilt	Bridge Length	NBIS Length	Maximum Span Length	Lanes On	Lanes Under	Curb to Curb Deck Width	Out to Out Deck Width	Sidewalk Curb Left	Sidewalk Curb Right	Min Vert Clearance Over Deck	Min Vert Clearance Under Bridge	Code	Min Lat UnderClr Right	Code	Min Lat UnderClr Left	Navigation Vertical Clearance	Navigation Horizontal Clrnce	Vert Lift Min Clrnce	Appr Roadway Width	Skew Angle	Flare
7	1 9 1 8	2 0 0 7	2 5 6	.	8 0	2	0	2 8 . 0'	3 1 . 0'	1 . 5'	1 . 5'	9' 9" 9' 9"	0'	N	0 . 0'	N	0 . 0'	0'	0'		2 6'	0°	N

WB	On Under	High Way Class	Service Level	Route Number	Mile Post	ADT on Inventory Route	Truck ADT PCT	ADT Year	Future ADT	Future ADT Year	Linear Referencing System Route	LRS Sub Route	Fed Aid Route	Nat Hwy System	Base Hwy Network	Stranet Highway	Fed Lands Highway	Fed Funct Class	Nat Hwy Net	Lane Use Direction	Horizontal Clearance Route Dir	Horizontal Clearance Reverse Dir	Max Vertical Clearance Route Dir	Detour Length
7	1	4	1	9 6 8 5 5	9 . 4 0	4 7 2 5	1 0	2 0 0 9	1 0 0 0 0	2 0 3 0			H 3 1 3	0	0	0	0	0 7	N 2	2 8' 0 0"				5

WB	Main Span Material	Main Span Design	Appr Span Material	Appr Span Design	Number of Main Spans	Number of Appr Spans	Service On	Service Under	Deck Type	Wearing Surface	Membrane Protection	Fed Deck Load	Design Method	Oper Rtnng Method	Oper Rtnng Tons	Inv Rtnng Method	Inv Rtnng Tons	Design Exception Date	Federal Aid Project	Border State Code	Border State PCT	Border State Structure Identifier
7	1	1	1	0	0	0	1	9	1	6	0	0	0	A	2 8	A	1 7					

WB	Routine Inspection		Traffic Safety															Sufficiency Rating: 43.40																													
7	Freq	Last Inspection Date	Hours On Site	Inspector	Inspection Identification No	Co-Inspector	Structural Adequacy	Deck Geometry	Underclear Adequacy	Operating Level	Alignment Adequacy	Waterway Adequacy	Deck Overall	Drain Cond	Drains	Scaling Severity	Scaling Percent	Deck Rutting	Exposed Rein Steel	Superstruct Overall	Curb	Sidewalks	Paint	Utilities	Number of	Channel Protection	Substruct Overall	Abutment	Pier	Scour	Approach Roadway	Retaining Walls	Pier Protection	Bridge Rail	Trans	Guard	Term	Revised Rating	Repair Status	Card Check	Photos	Season	Soundings	Clearances	Monitor Structure		
6	2 4	0 9 / 1 2 / 2 0 1 3	2 . 0	J R H	G 1 0 1 4		4	4	9	5	8	8	8	9	0	N	0	0	0	8	9	9	9	0	5	6	9	N	8	8	9	9	1	1	1	1	Y										

WB	Fracture Critical / UBIT Inspection						Underwater Inspection						Other Special Inspections								
7	Type	Freq	Last Inspection Date	Hours On Site	Inspector	Inspection Identification No	Co-Inspector	Type	Freq	Last Inspection Date	Hours On Site	Inspector	Inspection Identification No	Co-Inspector	Type	Freq	Last Inspection Date	Hours On Site	Inspector	Inspection Identification No	Co-Inspector
7																					

WB	Proposed Improvements														Inspecting Agency		Seismic Status-Superstruct		Seismic Status-Substruct									
7	Flood Plain	Flood Control	Flood History	Scour	Streambed Material	Streambed Stability	Waterway Obstruction	Substruct Stability	Piers in Water	Service Under	Service On	Work Type	Work Method	Structure Improve Length	Roadway Width	Lanes On	Lanes Under	Total Costs In Thousands	Structure Cost In Thousands	Roadway Cost In Thousands	Estimate Year	Calc	Code	Number	Main Biennium	Approach Biennium	Main Biennium	Approach Biennium
8	F	C	N	N	7	3	N	G	N	0	0	0	0	0	0	0	0	0	0	0	0	N						