

**BRIDGE INSPECTION REPORT**

Status: Released

Printed On: 3/4/2021

Agency: FEDERAL WAY

CD Guid: 2a2c249b-9721-452a-bbef-eb7c906ab09b

Release Date: 11/17/2020

Program Mgr: Roman G. Peralta

**Br. No.** 3005

**SID** 08431600

**Br. Name** HYLEBOS CREEK

**Carrying** S 373RD ST

**Route On** 20600

**Mile Post** 0.30

**Intersecting** HYLEBOS CREEK

**Route Under**

**Mile Post**

DocuSigned by:

*Margaret Germaine*

DocuSigned by:

*Dustin Chan*

Inspector's Signature MAG Cert # G1103 Cert Exp Date 5/12/2021

Co-Inspector's Signature JJC

6	Structural Eval (1657)	45	Operating Tons (1552)	0	No Utilities (2675)	<b>Inspections Performed:</b> <table border="1"> <thead> <tr> <th>Freq</th> <th>Hrs</th> <th>Date</th> <th>Rep Type</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td>Routine</td> </tr> <tr> <td></td> <td></td> <td></td> <td>Fract Crit</td> </tr> <tr> <td></td> <td></td> <td></td> <td>UW</td> </tr> <tr> <td></td> <td></td> <td></td> <td>Special</td> </tr> <tr> <td></td> <td></td> <td></td> <td>Interim</td> </tr> <tr> <td></td> <td></td> <td></td> <td>UWI</td> </tr> <tr> <td></td> <td></td> <td></td> <td>Damage</td> </tr> <tr> <td></td> <td></td> <td></td> <td>PRM Safety</td> </tr> <tr> <td></td> <td></td> <td></td> <td>SEC Safety</td> </tr> <tr> <td></td> <td></td> <td></td> <td>Condition</td> </tr> <tr> <td><b>24</b></td> <td><b>1.0</b></td> <td><b>8/26/2020</b></td> <td><b>Short Span</b></td> </tr> <tr> <td></td> <td></td> <td></td> <td>In Depth</td> </tr> <tr> <td></td> <td></td> <td></td> <td>Geometric</td> </tr> </tbody> </table>	Freq	Hrs	Date	Rep Type				Routine				Fract Crit				UW				Special				Interim				UWI				Damage				PRM Safety				SEC Safety				Condition	<b>24</b>	<b>1.0</b>	<b>8/26/2020</b>	<b>Short Span</b>				In Depth				Geometric
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4	Deck Geometry (1658)	1.25	Op RF (1553)	0	Bridge Rails (1684)																																																									
9	Underclearance (1659)	27	Inventory Tons (1555)	0	Transition (1685)																																																									
8	Alignment (1661)	0.75	Inv RF (1556)	0	Guardrails (1686)																																																									
7	Deck Overall (1663)	5	Operating Level (1660)	0	Terminals (1687)																																																									
7	Superstructure (1671)	A	Open/Closed (1293)	3.00	Asphalt Depth (2610)																																																									
7	Substructure (1676)	3	Waterway (1662)	10.0	Design Curb Ht (2611)																																																									
9	Culvert (1678)	8	Scour (1680)	36.0	34.0 Bridge Rail Ht (2612)																																																									
8	Chan/Protection (1677)		Soundings Flag (2693)	1951	Year Built (1332)																																																									
N	Pier/Abut/Prot (1679)	N	Revise Rating (2688)	0	Year Rebuilt (1336)																																																									
9	Drain Cond (7664)		Photos Flag (2691)	N	Subj to NBIS (2614)																																																									
0	Drain Status (7665)		Measure Clrnc (2694)	Alpha Span Type: PCMWG																																																										
N	Deck Scaling (7666)	9	Sdwk Cond (7673)	Sufficiency Rating: 68.46																																																										
0	Scaling Pct (7667)	9	Paint Cond (7674)	Status:																																																										
0	Deck Rutting (7669)	6	Approach Cond (7681)	Routine Risk Category: Low Risk																																																										
0	Exposed Rebar (7670)	9	Retaining Wall (7682)	Underwater Risk Category:																																																										
7	Curb Cond (7672)	9	Pier Prot (7683)																																																											

BMS Elements							
Element	Element Description	Total	Units	State 1	State 2	State 3	State 4
13	Bridge Deck Surface	365	SF	365	0	0	0
109	Prestressed Concrete Multiple Web Girder Units	110	LF	110	0	0	0
216	Timber Abutment	51	LF	51	0	0	0
228	Timber Submerged Pile/Column	10	EA	10	0	0	0
235	Timber Pier Cap	46	LF	46	0	0	0
330	Metal Bridge Railing	32	LF	32	0	0	0
361	Scour	2	EA	2	0	0	0
800	Asphaltic Concrete (AC) Overlay	365	SF	365	0	0	0

Notes	
0	<b>ORIENTATION:</b> Bridge is west to east, abutment 1 is west, Pile A is north, Girder A is north. Hylebos Creek flows north to south.
3	<b>GENERAL NOTE:</b> A thorough inspection of the timber substructure and concrete girders was conducted during channel dredging on 8/17/18.

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<b>Carrying</b> S 373RD ST		<b>Route On</b> 20600	<b>Mile Post</b> 0.30
<b>Intersecting</b> HYLEBOS CREEK		<b>Route Under</b>	<b>Mile Post</b>

## Notes (Continued)

11	LOAD RATING: Controlling point - Shear.
13	BRIDGE DECK SURFACE: Covered with asphalt overlay, see Note 800 for details.
109	MULTI WEB CONCRETE GIRDERS: 6 lines of multi-web girders. Girders A and F - several vertical hairline cracks in webs at mid-span, some lightly leaching. Girder A east diaphragm has a spall with exposed rebar.
216	TIMBER ABUTMENT: Upper timber backwall planks are solid, lower planks are buried in sandy channel material. Abut 1 - Two rotten nailer posts at the north end backwall overhang. Abut 2 - One nailer post is rotten at the north end backwall overhang.
228	TIMBER PILES: Upper 2' of piles were exposed during 2018 channel dredging. All exposed areas of piles are solid.
235	TIMBER CAPS: Surface is wet, cap ends have vegetation and debris accumulated on exposed ends, timber is solid.
330	METAL BRIDGE RAIL: South rail - minor deformation along top of rail. North rail - east half of rail has been replaced. Middle timber post has vertical split.
361	SCOUR FIELD: Riprap in place at all 4 corners of bridge. This branch of Hylebos Creek has a history of aggregation and sedimentation reducing the flow capacity at the structure. The Hylebos creek channel was dredged upstream and downstream of the bridge in August 2018.
800	ASPHALT OVERLAY: West approach - transverse cracks forming at both corners of deck joint. Asphalt patch area 3' diameter at SW corner. One longitudinal crack near south fog line full length of deck. East approach - has saw-cut joint sealed with emulsion at deck joint, several transverse cracks along joint on approach side. Asphalt depth is 3" thick on deck.
1662	WATERWAY ADEQUACY: Coded 3 due to occasional overtopping at bridge and roadway approach.
1677	CHANNEL PROTECTION: Slow flow, established banks are sandy with scattered pea gravel. Bottom is covered with silts and vegetated near bridge. Vegetation is well established along both banks. Floating surface vegetation throughout stream.
7672	CONCRETE CURBS: Curbs measure 7" high from deck. Weather abraded with some moss growth.
7681	APPROACH ROADWAY: West approach - settlement of up to 1.25" at both corners, most notable at SW corner. East approach - slight settlement along joint line. Monitor settlement at west approach.

## Repairs

Repair No	Pr	R	Repair Descriptions	Noted	Maint	Verified
10004	1	B	APPROACH SETTLEMENT: 1.25" settlement at the west approach of bridge, both north and south corners. 1. Dig out west approach, replace existing fill with crushed base and compact. Cover with asphalt for a smooth transition to bridge deck.	10/1/2014		

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Repair No	Pr	R	Repair Descriptions	Noted	Maint	Verified
10005	1	B	DELINEATOR SIGNAGE: NE delineator is unsecured and leaning. 1. Anchor delineator to solid post.	8/26/2020		

**Inspections Performed and Resources Required**

<u>Report Type</u>	<u>Date</u>	<u>Freq</u>	<u>Hrs</u>	<u>Insp</u>	<u>CertNo</u>	<u>Coinsp</u>	<u>Note</u>
Short Span	8/26/2020	24	1.0	MAG	G1103	JJC	