P2 Bridge Preservation - Replacement/Rehab Projects

2013-15 Bien Priority Array

(Sorted by Priority Number)

13-15 #	Bridge Number	Bridge Name	Mile post	Region	Length	Future work Description
2	142/9	KLICKITAT R	17.55	Southwest	144	Replace Bridge
3	508/12	S FK NEWAUKUM R	13.65	Southwest	197	Replace Bridge
4	97/20	SATUS CR	30.80	Southwest	101	Replace Bridge
7	506/106	LACAMAS CR	8.05	Southwest	170	Replace Bridge
17	5/36E	E FK LEWIS R	18.21	Southwest	852	Replace Bridge
21	6/101	ROCK CR (OLD NP RY OC)	25.00	Southwest	257	Replace Bridge
23	504/15	N FK TOUTLE R KID VALLEY	17.29	Southwest	493	Rehabilitate Bridge

Total Number of Bridges = 7

P2 Bridge Preservation - Replacement/Rehab Projects

2013-15 Bien Priority Array

(Sorted by Bridge Number)

13-15 #	Bridge Number	Bridge Name	Mile post	Region	Length	Future work Description
17	5/36E	E FK LEWIS R	18.21	Southwest	852	Replace Bridge
21	6/101	ROCK CR (OLD NP RY OC)	25.00	Southwest	257	Replace Bridge
4	97/20	SATUS CR	30.80	Southwest	101	Replace Bridge
2	142/9	KLICKITAT R	17.55	Southwest	144	Replace Bridge
23	504/15	N FK TOUTLE R KID VALLEY	17.29	Southwest	493	Rehabilitate Bridge
7	506/106	LACAMAS CR	8.05	Southwest	170	Replace Bridge
3	508/12	S FK NEWAUKUM R	13.65	Southwest	197	Replace Bridge

Total Number of Bridges = 7

Bridge Preservation Program

Bridge Replacement Form

Bridge Number:	Structure ID	Bridge Name:	Milepost:	Region:
5 / 36E	0002473A	E FK LEWIS R	18.21	Southwest

Year Built / YR Widened:	Bridge Type:	Number of Main/Appr span	Sufficiency Rating:
1936	Steel Thru Truss	1 / 12	37.32 SD

Bridge Width (curb-curb):	Bridge Length:	Max Span:
48.0 ft	852 ft	248 ft

Average Daily Traffic:	Truck%	Number of Lanes:
33,747	35%	3

Vertical Clearance:	Detour Length (miles):	Appr Rdway Width:
17 FT 02 in	10	52.0 ft

Design Load:	H 15	HS:	0.70	Load Restricted Bridge?	☑
Op Rating:	35.00	A1:	1.02	BL Load:	20,000
Inv Rating:	31.00	A2:	1.06	CL-8 Load:	20,000
		A3:	1.16	SA Load:	35,500

Bridge Deck View

Bridge Inspection Information

Date Inspected:	8/24/2011	Structr Adequacy:	4
Superstr Code:	4	Safe Load:	5
Substr Code:	6	Deck Geometry:	4
Deck Code:	6	Underclearance:	3
Scour:	3	Waterway:	8

Bridge Profile View

Proposed Bridge Replacement / Rehab Information

New Bridge Width:	52 ft	Bridge $'s:	
New Bridge Length:	857 ft.	Total $'s:	$50,000,000
Priority Array #:	17		
PIN Number:	400512R	Repl/Rehab Year:	
WIN Number:		Ad Date:	
Contract Number:		Funding Cat:	P2

THIS BRIDGE IS CLASSIFIED "SD" BASED ON THE SUPERSTRUCTURE CODE.
Some of the stringer ends at the floorbeam connections are showing laminar rust and starting to lift the deck off the stringer top flanges. Approximately 8% section loss typical. A repair project for the cracked stringers was completed by contract in 2006. There are 48 locations with bolts, drilled holes, or welded plates. The bridge was last painted in 1998.

This bridge was added to the Bridge Replacement Priority Array due to the existing condition and the load restrictions. It is cost prohibitive to rehabilitate the bridge to meet current standards for overload truck loads. Trucks requiring an overload permit and unable to meet the load restiction of 20,000lbs must detour @ milepost 16 using a county road through the town of LaCenter and the NW Pacific Hwy then re-entering Interstate 5 @ milepost 21.

Bridge Preservation Program

Bridge Replacement Form

Bridge Number:	Structure ID	Bridge Name:	Milepost:	Region:
6 / 101	0001351A	SR6 OVER ROCK CR/OLD RR	25.00	Southwest

Year Built / YR Widened:	Bridge Type:	Number of Main/Appr span	Sufficiency Rating:
1930	Concrete T-Beam	6 / 0	32.93 SD

Bridge Width (curb-curb):	Bridge Length:	Max Span:
24.0 ft	257 ft	54 ft

Average Daily Traffic:	Truck%	Number of Lanes:
1,456	13%	2

Vertical Clearance:	Detour Length (miles):	Appr Rdway Width:
NA	99	28.0 ft

Design Load:	H 15	HS: 1.23	Load Restricted Bridge? ☐
Op Rating:	51.00	A1: 1.93	BL Load:
Inv Rating:	30.00	A2: 2.05	CL-8 Load:
		A3: 2.24	SA Load:

Bridge Deck View

Bridge Inspection Information

Date Inspected:	2/28/2011	Structr Adequacy:	4
Superstr Code:	6	Safe Load:	5
Substr Code:	4	Deck Geometry:	4
Deck Code:	6	Underclearance:	9
Scour:	4	Waterway:	8

Bridge Profile View

Proposed Bridge Replacement / Rehab Information

New Bridge Width:	36 ft	Bridge $'s:	
New Bridge Length:	262 ft.	Total $'s:	$10,023,300
Priority Array #:	21		
PIN Number:		Repl/Rehab Year:	2022
WIN Number:		Ad Date:	
Contract Number:		Funding Cat:	P2

THE BRIDGE IS CLASSIFIED "SD" DUE TO A SUBSTRUCTURE CONDITION.

Advanced deterioration cracking, spalling and section loss of columns and scour of footing of Pier 4 columns.

Bridge Replacement is warranted since there is no cost effect way of addressing the bridge scour problem and the concrete slab deterioration.

The new bridge will likely be a 3 span Prestressed Concrete Girder (W58MG) with a maximum span of 124.7ft.

Bridge Preservation Program

Bridge Replacement Form

Bridge Number:	Structure ID	Bridge Name:	Milepost:	Region:
97 / 20	0006113A	SATUS CR	30.80	Southwest

Year Built / YR Widened:	Bridge Type:	Number of Main/Appr span	Sufficiency Rating:
1959	Concrete Slab (Hollow)	3 / 0	20.25 SD

Bridge Width (curb-curb):	Bridge Length:	Max Span:
38.0 ft	101 ft	40 ft

Average Daily Traffic:	Truck%	Number of Lanes:
3,917	26%	2

Vertical Clearance:	Detour Length (miles):	Appr Rdway Width:
NA	45	45.0 ft

Design Load:	HS 20	HS:	0.71	Load Restricted Bridge?	☑
Op Rating:	26.00	A1:	1.00	BL Load:	20,000
Inv Rating:	15.00	A2:	0.98	CL-8 Load:	20,000
		A3:	1.04	SA Load:	40,000

Bridge Deck View

Bridge Inspection Information

Date Inspected:	7/15/2011	Structr Adequacy:	4
Superstr Code:	4	Safe Load:	5
Substr Code:	5	Deck Geometry:	5
Deck Code:	3	Underclearance:	9
Scour:	3	Waterway:	6

Bridge Profile View

Proposed Bridge Replacement / Rehab Information

New Bridge Width:	40 ft	Bridge $'s:	
New Bridge Length:	106 ft.	Total $'s:	$5,000,000
Priority Array #:	4		
PIN Number:		Repl/Rehab Year:	
WIN Number:		Ad Date:	
Contract Number:		Funding Cat:	P2

THE BRIDGE IS CLASSIFIED "SD" DUE TO A SUPERSTRUCTURE AND DECK CONDITION.

This is a cast-in-place hollow concrete slab. The bridge was constructed with little or no cover over the top mat of steel reinforcing in the deck. The top surface of the slab was first overlaid with a membrane and asphalt in 1974. The deck was repaired extensively and overlaid with asphalt in 1989. The bottom side of the slab has significant cracking with rust staining.

Bridge Replacement is warranted since there is no cost effect way of addressing the bridge scour problem and the concrete slab deterioration.

Bridge Preservation Program

Bridge Replacement Form

Bridge Number:	Structure ID	Bridge Name:	Milepost:	Region:
142 / 9	0004752D	KLICKITAT R	17.55	Southwest

Year Built / YR Widened:	Bridge Type:	Number of Main/Appr span	Sufficiency Rating:
1954	Pre-Tensioned Concrete Beam	2 / 0	30.88 SD

Bridge Width (curb-curb):	Bridge Length:	Max Span:
22.0 ft	144 ft	91 ft

Average Daily Traffic:	Truck%	Number of Lanes:
464	12%	2

Vertical Clearance:	Detour Length (miles):	Appr Rdway Width:
NA	35	23.0 ft

Design Load:	HS 15	HS:	Load Restricted Bridge? ☑
Op Rating:	46.00	A1:	BL Load:
Inv Rating:	28.00	A2:	CL-8 Load:
		A3:	SA Load:

Bridge Deck View

Bridge Inspection Information

Date Inspected:	5/21/2012	Structr Adequacy:	3
Superstr Code:	5	Safe Load:	0
Substr Code:	4	Deck Geometry:	4
Deck Code:	2	Underclearance:	9
Scour:	U	Waterway:	6

Bridge Profile View

Proposed Bridge Replacement / Rehab Information

New Bridge Width:	36 ft	Bridge $'s:	
New Bridge Length:	145 ft.	Total $'s:	$3,000,000
Priority Array #:	2		
PIN Number:		Repl/Rehab Year:	
WIN Number:		Ad Date:	
Contract Number:		Funding Cat:	P2

THIS BRIDGE IS CLASSIFIED "SD" DUE A DECK/PRESTRESS GIRDER CONDITION.
The Deck is coded a "4" due to the documented deterioration in slab between the girders.

This bridge is the oldest WSDOT owned with prestressed girders. A large amount of deck deterioriation was found in the top surface during contract 12901 in 1985. The bridge has an asphalt overlay. Inspections in June of 2012 found significant deterioration in the sofit of the slab supported between the PCG flanges. The SW Region has installed a Bailey bridge over the existing bridge.

This bridge needs to be replaced. This is an unprogrammed project since this bridge was not prioritized on the 2013-15 bien used to build the P2 projects to be funded in the 2013-15 bien and beyond.

Bridge Preservation Program

Bridge Replacement Form

Bridge Number:	Structure ID	Bridge Name:	Milepost:	Region:
504 / 15	0007631A	NFK TOUTLE R KID VALLEY	17.29	Southwest

Year Built / YR Widened:	Bridge Type:	Number of Main/Appr span	Sufficiency Rating:
1965	Steel Beam	3 / 1	39.74 SD

Bridge Width (curb-curb):	Bridge Length:	Max Span:
28.0 ft	493 ft	175 ft

Average Daily Traffic:	Truck%	Number of Lanes:
1,050	9%	2

Vertical Clearance:	Detour Length (miles):	Appr Rdway Width:
NA	23	32.0 ft

Design Load:	HS 20	HS:	1.17	Load Restricted Bridge?	☑
Op Rating:	36.00	A1:	1.60	BL Load:	18,000
Inv Rating:	21.00	A2:	1.28	CL-8 Load:	
		A3:	1.22	SA Load:	

Bridge Deck View

Bridge Inspection Information

Date Inspected:	5/18/2011	Structr Adequacy:	4
Superstr Code:	4	Safe Load:	5
Substr Code:	6	Deck Geometry:	5
Deck Code:	7	Underclearance:	8
Scour:	5	Waterway:	8

Bridge Profile View

Proposed Bridge Replacement / Rehab Information

New Bridge Width:	ft	Bridge $'s:	
New Bridge Length:	ft.	Total $'s:	$1,500,000
Priority Array #:	23		
PIN Number:		Repl/Rehab Year:	
WIN Number:		Ad Date:	
Contract Number:		Funding Cat:	

A steel girder was damaged from an impact under the bridge. The damaged steel girder needs to be replaced.

Bridge Preservation Program

Bridge Replacement Form

Bridge Number:	Structure ID	Bridge Name:	Milepost:	Region:
506 / 106	0003928A	LACAMAS CR	8.05	Southwest

Year Built / YR Widened:	Bridge Type:	Number of Main/Appr span	Sufficiency Rating:
1951	Treated Timber Trestle	9 / 0	44.06 SD

Bridge Width (curb-curb):	Bridge Length:	Max Span:
24.0 ft	170 ft	19 ft

Average Daily Traffic:	Truck%	Number of Lanes:
1,956	12%	2

Vertical Clearance:	Detour Length (miles):	Appr Rdway Width:
NA	11	30.0 ft

Design Load:	H 15	HS:	0.84	Load Restricted Bridge?	☑
Op Rating:	40.00	A1:	0.99	BL Load:	16,500
Inv Rating:	28.00	A2:	1.08	CL-8 Load:	20,000
		A3:	1.20	SA Load:	41,000

Bridge Deck View

Bridge Inspection Information

Date Inspected:	5/16/2011	Structr Adequacy:	4
Superstr Code:	5	Safe Load:	5
Substr Code:	4	Deck Geometry:	4
Deck Code:	4	Underclearance:	9
Scour:	5	Waterway:	8

Bridge Profile View

Proposed Bridge Replacement / Rehab Information

New Bridge Width:	36 ft	Bridge $'s:	
New Bridge Length:	180 ft.	Total $'s:	$6,480,000
Priority Array #:	7		
PIN Number:	450607A	Repl/Rehab Year:	
WIN Number:	D50607A	Ad Date:	
Contract Number:		Funding Cat:	P2

THIS BRIDGE IS CLASSIFIED "SD" DUE TO A DECK AND SUBSTRUCTURE CONDITION.
This bridge was added to the Bridge Replacement Priority Array in 2000.
The Bridge Inspection Report says the deck has a 6" thick ACP overlay has many cracks and patches. Many timber lams in deck (3"x4") have center rot starting from the North edge and continuing 2' to 8' into the deck. SW Region Maintenance took all the ACP and gravel off in 2009 and added plywood and new ACP. The Stringer 1O has been replaced; Stringer 2O and 3O are Red Tagged and have 2" and 1/2" shell on 5" section under scupper.
The Piles are checked, weathered, and split. Pile 3D has a 2" shell and a 6" rot pocket near the top (Y.T.); Pile 4D has a 1/4" wide check - 16 feet long; Pile 6D has a 2" shell with a 4" rot pocket ranging from 6' - 15' from the ground and has bug borer holes throughout (Y.T.); Pile 7D has a 2" shell with 4" rot pocket along the top 6 feet (Y.T.).

Bridge Preservation Program

Bridge Replacement Form

Bridge Number:	Structure ID	Bridge Name:	Milepost:	Region:
508 / 12	000000IJ	S FK NEWAUKUM R	13.65	Southwest

Year Built / YR Widened:	Bridge Type:	Number of Main/Appr span	Sufficiency Rating:
1930	Steel Pony Truss	1 / 7	2.00 SD

Bridge Width (curb-curb):	Bridge Length:	Max Span:
20.0 ft	197 ft	90 ft

Average Daily Traffic:	Truck%	Number of Lanes:
1,652	14%	2

Vertical Clearance:	Detour Length (miles):	Appr Rdway Width:
NA	23	26.0 ft

Design Load:	Unknown	HS:	0.79	Load Restricted Bridge?	☑
Op Rating:	23.00	A1:	1.09	BL Load:	16,000
Inv Rating:	14.00	A2:	0.91	CL-8 Load:	18,000
		A3:	0.91	SA Load:	34,000

Bridge Deck View

Bridge Inspection Information

Date Inspected:	2/28/2012	Structr Adequacy:	0
Superstr Code:	1	Safe Load:	0
Substr Code:	5	Deck Geometry:	0
Deck Code:	3	Underclearance:	9
Scour:	3	Waterway:	8

Bridge Profile View

Proposed Bridge Replacement / Rehab Information

New Bridge Width:	36 ft	Bridge $'s:	
New Bridge Length:	202 ft.	Total $'s:	$5,000,000
Priority Array #:	3		
PIN Number:	450816R	Repl/Rehab Year:	
WIN Number:		Ad Date:	
Contract Number:		Funding Cat:	P2

THIS BRIDGE IS CLASSIFIED "SD" BASED ON THE DECK and SUPERSTRUCTURE CONDITION.

The ACP was removed in 2001 as part of contract 6020. The concrete deck is very deteriorated and has over 60% delaminations.

There is 15% section loss in the floorbeam webs near the connections to the truss, and 10% section loss in the bottom flanges near the ends. Exterior stringers: Top flanges up to 15% section loss and bottom flanges up to 30% section loss. Worst case is Stringer 7-1A near north truss panel point L1 with about 10 ft. of bottom flange showing laminar rusting and 30% section loss. Floor system lateral bracing between L4-L5 is bent 4"" over 9 ft.

The bridge is currently load posted to 7 tons with no trucks allowed.

Special Bridge Repairs - 2013-15 Biennium - Southwest

(Sorted by Priority#)

2013-15 Priority#:	Bridge Number	Bridge Name	Milepost	Region	Repair Description	Total$'s
47	409/010	JULIA BUTLER HANSEN BR	2.79	Southwest	Replace Timber Deck	$3,000,000
52	005/040W	LEWIS R	19.83	Southwest	Steel Truss Repair	$500,000
66	004/230	COWLITZ R-P CRAWFORD B	61.08	Southwest	Steel Truss Deck Joints	$109,200
69	012/306	INDIAN CR	159.01	Southwest	Replace Conc Bridge Rail	$100,000
71	500/006	I-205 OC	4.77	Southwest	Replace Exp Joints	$222,000
76	006/118	CHEHALIS R ADNA	46.59	Southwest	Replace Exp Jnt	$240,000
6	Repairs				Sum of Bridge $'s =	$4,171,200

Special Bridge Repairs - 2013-15 Biennium - Southwest

(Sorted by Bridge#)

2013-15 Priority#:	Bridge Number	Bridge Name	Milepost	Region	Repair Description	Total$'s
66	004/230	COWLITZ R-P CRAWFORD B	61.08	Southwest	Steel Truss Deck Joints	$109,200
52	005/040W	LEWIS R	19.83	Southwest	Steel Truss Repair	$500,000
76	006/118	CHEHALIS R ADNA	46.59	Southwest	Replace Exp Jnt	$240,000
69	012/306	INDIAN CR	159.01	Southwest	Replace Conc Bridge Rail	$100,000
47	409/010	JULIA BUTLER HANSEN BR	2.79	Southwest	Replace Timber Deck	$3,000,000
71	500/006	I-205 OC	4.77	Southwest	Replace Exp Joints	$222,000
6	Repairs				Sum of Bridge $'s =	$4,171,200

P2 Bridge Preservation - Concrete Deck Repair / Overlay Projects

2013-15 Bien Priority Array

(Sorted by Priority Number)

13-15 #	Bridge Number	Bridge Name	Mile post	Region	Width	Length	Total$'s
2	6/123	CHEHALIS R RIVERSIDE	50.94	Southwest	24.0	1045	$650,000
3	432/10S	COWLITZ R & NP RY OC	9.58	Southwest	29.5	1676	$4,944,200
37	97/6	SWALE CR	8.08	Southwest	28.0	103	$330,290

Total Number of Bridges = 3

Totals $ = $5,924,490

P2 Bridge Preservation - Concrete Deck Repair / Overlay Projects

2013-15 Bien Priority Array

(Sorted by Bridge Number)

13-15 #	Bridge Number	Bridge Name	Mile post	Region	Width	Length	Total$'s
2	6/123	CHEHALIS R RIVERSIDE	50.94	Southwest	24.0	1045	$650,000
37	97/6	SWALE CR	8.08	Southwest	28.0	103	$330,290
3	432/10S	COWLITZ R & NP RY OC	9.58	Southwest	29.5	1676	$4,944,200

Total Number of Bridges = 3

Totals $ = $5,924,490

Washington State Department of Transportation

Bridge Deck Condition Report

BRIDGE DATA

BRIDGE NUMBER: 6/123 MP: 50.94
BRIDGE NAME: CHEHALIS R RIVERSIDE
REGION: Southwest
YEAR BUILT / YR WIDENED: 1939
SUFFICIENCY RATING: 65.43 FO
BRIDGE TYPE: STrus TTC
BRIDGE WIDTH: 24.0 ft.
BRIDGE LENGTH: 1,045 ft.
AVERAGE DAILY TRAFFIC: 11,420
NUMBER OF LANES: 2
SIDEWALK / CURB WIDTH: 0.6 Lt 3.5 Rt
CURB HEIGHT: in

BRIDGE PHOTO

PAVING VERTICAL CLEARANCE

VC to pavement under bridge: Not Available
VC over bridge deck: Not Available

WEARING SURFACE or DECK PROTECTION

SURFACE TYPE: Original Concrete
1ST YEAR BRIDGE OVERLAY
OVERLAY CONTRACT HISTORY

BRIDGE RAIL

BRIDGE RAIL TYPE: Steel Post - Bull Rail
RAIL MEETS CURRENT STANDARDS? NO
RAIL CONTRACT HISTORY

EXPANSION JOINTS

Coordinate with your Region Bridge Maintenance to determine if any repairs are needed. Std Plan A40.20, Joint Detail 8 applies at the ends and truss joints on the bridge. (Std Item Number 6517)

EXPANSION JOINT CONTRACT HISTORY

BRIDGE RESURFACING / DECK COMMENTS

The west approach spans have an asphalt overlay. The rest of the bridge does not have an overlay.

Resurfaceing project should place 0.15' of HMA with waterproofing membrane on the east approach spans and the steel truss span. Raising the steel expansion joints will be required (48 Ft @ $600/LF). The total HMA thickness must not exceed 0.15' inches.

BRG NUMBER: 6 / 123

BRIDGE DECK HMA PAVING DESIGN OPTIONS

Max. Bridge HMA Depth:

DESCRIPTION	PAVING CLASSIFICATION	EXISTING HMA DEPTH	MAX. PLANE DEPTH PART./FULL	MAX. PLANE DEPTH DEPTH	PAVING HMA DEPTH

BRIDGE CONTACTS

Bridge Projects and Design	Ron Lewis	360.705.7396
Bridge Rail/Barrier and Retrofit	David Sawahata	360.705.6941
Vertical Clearance	George Comstock	360.570.2540
BCRs - Brg HMA - P2	Bruce Thill	360.705.7393

Bridge Website: http://wwwi.wsdot.wa.gov/eesc/bridge/

See Bridge website for information on Bridge HMA Overlay Policies/Specs, Scoping, Region Design, and Construction Inspection: http://wwwi.wsdot.wa.gov/eesc/bridge/bridgeoverlays/

REVIEWED BY: *Bruce Thill*

DATE: 6/21/2011

Washington State Department of Transportation

Bridge Deck Condition Report

BRIDGE DATA

BRIDGE NUMBER: 97/6 MP: 8.08
BRIDGE NAME: SWALE CR
REGION: Southwest
YEAR BUILT / YR WIDENED: 1960
SUFFICIENCY RATING: 70.00 SD
BRIDGE TYPE: CS
BRIDGE WIDTH: 28.0 ft.
BRIDGE LENGTH: 103 ft.
AVERAGE DAILY TRAFFIC: 5,191
NUMBER OF LANES: 2
SIDEWALK / CURB WIDTH: 2.0 Lt 2.0 Rt
CURB HEIGHT: in

BRIDGE PHOTO

PAVING VERTICAL CLEARANCE

VC to pavement under bridge: Not Available
VC over bridge deck: Not Available

BRIDGE RAIL

BRIDGE RAIL TYPE: Conc Base - Type 1B w/Thrie Beam
RAIL MEETS CURRENT STANDARDS? YES
RAIL CONTRACT HISTORY

5/1/1995	014687	THRIE BEAM RETROFIT

EXPANSION JOINTS

EXPANSION JOINT CONTRACT HISTORY

WEARING SURFACE or DECK PROTECTION

SURFACE TYPE: MMC Overlay
1ST YEAR BRIDGE OVERLAY 1989
OVERLAY CONTRACT HISTORY

12/1/1988	013530	MMC OVERLAY

BRIDGE RESURFACING / DECK COMMENTS

Bridge Inspection results indicate nearly 5.0% of the existing concrete overlay and deck is deteriorated.

We recommend removing the existing LMC and using a hydromill and applying a 1.5" modified concrete overlay.

BRG NUMBER: 97 / 006

BRIDGE DECK HMA PAVING DESIGN OPTIONS

Max. Bridge HMA Depth:

DESCRIPTION	PAVING CLASSIFICATION	EXISTING HMA DEPTH	MAX. PLANE DEPTH PART./FULL	MAX. PLANE DEPTH DEPTH	PAVING HMA DEPTH
		0.13			

BRIDGE CONTACTS

Bridge Projects and Design	Ron Lewis	360.705.7396
Bridge Rail/Barrier and Retrofit	David Sawahata	360.705.6941
Vertical Clearance	George Comstock	360.570.2540
BCRs - Brg HMA - P2	Bruce Thill	360.705.7393

Bridge Website: http://wwwi.wsdot.wa.gov/eesc/bridge/

See Bridge website for information on Bridge HMA Overlay Policies/Specs, Scoping, Region Design, and Construction Inspection: http://wwwi.wsdot.wa.gov/eesc/bridge/bridgeoverlays/

REVIEWED BY: *Bruce Thill*

DATE: 6/21/2011

Washington State Department of Transportation

Bridge Deck Condition Report

BRIDGE DATA

BRIDGE NUMBER: 432/10S MP: 9.58
BRIDGE NAME: HARRY E. MORGAN BRIDGE
REGION: Southwest
YEAR BUILT / YR WIDENED: 1961 / 1971
SUFFICIENCY RATING: 52.70
BRIDGE TYPE: STrus CBox
BRIDGE WIDTH: 29.5 ft.
BRIDGE LENGTH: 1,676 ft.
AVERAGE DAILY TRAFFIC: 15,000
NUMBER OF LANES: 2
SIDEWALK / CURB WIDTH: 0.0 Lt 0.0 Rt
CURB HEIGHT: in

BRIDGE PHOTO

PAVING VERTICAL CLEARANCE

VC to pavement under bridge: Not Available
VC over bridge deck: Not Available

BRIDGE RAIL

BRIDGE RAIL TYPE: New Jersey Barrier
RAIL MEETS CURRENT STANDARDS? YES
RAIL CONTRACT HISTORY

11/1/1986	013206	NEW JERSEY BARRIER

WEARING SURFACE or DECK PROTECTION

SURFACE TYPE: original concrete
1ST YEAR BRIDGE OVERLAY
OVERLAY CONTRACT HISTORY

EXPANSION JOINTS

Coordinate with your Region Bridge Maintenance to determine if any repairs are needed.

EXPANSION JOINT CONTRACT HISTORY

BRIDGE RESURFACING / DECK COMMENTS

Bridge Inspection reports indicate the deck is more than 2% deteriorated with a significant amount of exposed rebar in the top of the deck near piers 9 and 12.

We recommend a 1.5" modified concrete overlay be placed with 0.5" hydromill scarification.

BRG NUMBER: 432 / 010S

BRIDGE DECK HMA PAVING DESIGN OPTIONS

Max. Bridge HMA Depth:

DESCRIPTION	PAVING CLASSIFICATION	EXISTING HMA DEPTH	MAX. PLANE DEPTH PART./FULL	MAX. PLANE DEPTH DEPTH	PAVING HMA DEPTH

BRIDGE CONTACTS

Bridge Projects and Design	Ron Lewis	360.705.7396
Bridge Rail/Barrier and Retrofit	David Sawahata	360.705.6941
Vertical Clearance	George Comstock	360.570.2540
BCRs - Brg HMA - P2	Bruce Thill	360.705.7393

Bridge Website: http://wwwi.wsdot.wa.gov/eesc/bridge/

See Bridge website for information on Bridge HMA Overlay Policies/Specs, Scoping, Region Design, and Construction Inspection: http://wwwi.wsdot.wa.gov/eesc/bridge/bridgeoverlays/

REVIEWED BY: *Bruce Thill*

DATE: 6/21/2011

P2 Bridge Preservation - Steel Bridge Painting Projects

2013-15 Bien Priority Array

(Sorted by Priority Number)

13-15 #	Bridge Number	Bridge Name	Mile Post	Region	Yr Work Planned	Total Project$
1	5/232E	SKOOKUMCHUCK R	82.28	Southwest	2012	$1,267,000
1	5/232W	SKOOKUMCHUCK R	82.28	Southwest	2012	$1,267,000
1	101/1(B)	COL R ASTORIA (TRUSS)		Southwest	2011	$18,599,000
1	433/1	COLUMBIA R-LEWIS&CLARK	0.00	Southwest	2011	$40,009,034
2	5/40W	LEWIS R	19.83	Southwest	2015	$9,984,000
3	5/40E	LEWIS R	19.87	Southwest	2015	$7,260,500
8	141/5	WHITE SALMON RIVER	8.70	Southwest	2014	$700,000
9	97/1	BIGGS RAPIDS-SAM HILL BR	0.00	Southwest	2014	$10,000,000
15	409/10	JULIA BUTLER HANSEN BR	2.79	Southwest	2018	$7,761,000
18	12/309	WILDCAT CR	165.95	Southwest	2018	$200,000
30	5/203W	COWLITZ R	59.06	Southwest	2020	$2,205,000
31	5/203E	COWLITZ R	59.06	Southwest	2020	$2,205,000
34	5/105W	BN RR OC (NP)	26.01	Southwest	2020	$1,100,000
35	5/104W	DIKE ACCESS RD & RR OC	22.72	Southwest	2020	$2,227,500
37	432/10S	COWLITZ R & NP RY OC	9.58	Southwest	2020	$2,226,000
50	12/241	TWIN CANYON CR	89.48	Southwest	2024	$486,750
54	6/118	CHEHALIS R ADNA	46.59	Southwest	2024	$783,750
57	504/15	N FK TOUTLE R KID VALLEY	17.29	Southwest	2024	$602,250
58	101/29	SOUTH NEMAH R NO 1	32.52	Southwest	2024	$200,000
60	4/106A	GRAYS R ROSBURG	15.06	Southwest	2024	$264,000

Total Number of Bridges = 20

Total Project $ = $109,347,784

P2 Bridge Preservation - Steel Bridge Painting Projects

2013-15 Bien Priority Array

(Sorted by Bridge Number)

13-15 #	Bridge Number	Bridge Name	Mile Post	Region	Yr Work Planned	Total Project$
60	4/106A	GRAYS R ROSBURG	15.06	Southwest	2024	$264,000
3	5/40E	LEWIS R	19.87	Southwest	2015	$7,260,500
2	5/40W	LEWIS R	19.83	Southwest	2015	$9,984,000
35	5/104W	DIKE ACCESS RD & RR OC	22.72	Southwest	2020	$2,227,500
34	5/105W	BN RR OC (NP)	26.01	Southwest	2020	$1,100,000
31	5/203E	COWLITZ R	59.06	Southwest	2020	$2,205,000
30	5/203W	COWLITZ R	59.06	Southwest	2020	$2,205,000
1	5/232E	SKOOKUMCHUCK R	82.28	Southwest	2012	$1,267,000
1	5/232W	SKOOKUMCHUCK R	82.28	Southwest	2012	$1,267,000
54	6/118	CHEHALIS R ADNA	46.59	Southwest	2024	$783,750
50	12/241	TWIN CANYON CR	89.48	Southwest	2024	$486,750
18	12/309	WILDCAT CR	165.95	Southwest	2018	$200,000
9	97/1	BIGGS RAPIDS-SAM HILL BR	0.00	Southwest	2014	$10,000,000
1	101/1(B)	COL R ASTORIA (TRUSS)		Southwest	2011	$18,599,000
58	101/29	SOUTH NEMAH R NO 1	32.52	Southwest	2024	$200,000
8	141/5	WHITE SALMON RIVER	8.70	Southwest	2014	$700,000
15	409/10	JULIA BUTLER HANSEN BR	2.79	Southwest	2018	$7,761,000
37	432/10S	COWLITZ R & NP RY OC	9.58	Southwest	2020	$2,226,000
1	433/1	COLUMBIA R-LEWIS&CLARK	0.00	Southwest	2011	$40,009,034
57	504/15	N FK TOUTLE R KID VALLEY	17.29	Southwest	2024	$602,250

Total Number of Bridges = 20

Total Project $ = $109,347,784

Steel Bridge Paint Form

2013-15 Biennium Priorities

Bridge Number:	Bridge Name:	Milepost:	Region:
4 / 106A	GRAYS R ROSBURG	15.07	Southwest

Year Built	Bridge Type:	Steel Span Length:	Width (curb-curb):	Steel Tonnage:
1947	SG PCTB	192 ft.	28 ft.	96

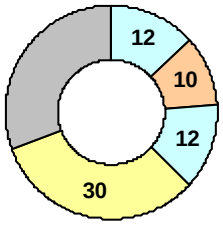
Paint Age:	Paint Color: N/A	Steel Surf. Area:	BMS Cond State 2:	BMS Cond State 3:
30	Light Green	10,560 sqft	2,150 sqft	75 sqft

Next Paint Year:	2013-15 Rank:	Past Due / Due / OK	CPMS Ad date:	Paint Pin Number:	Future Paint Cost:
2024	60	Due			$264,000

Past Paint History

Years	Cycle
1981	12
1969	10
1959	12
1947	

Painting Cycle



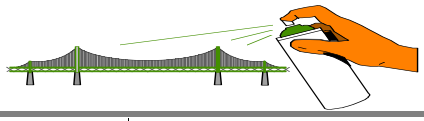
= Current Paint Age

This road was turned over to the county as part of the 1991 RJT transfer. WSDOT still has maintenance responsibility on the bridge. The old bridge number was 403/7.

The paint is still in good condition with a few spot rusting areas on the bottom flange of some steel beams. The next paint contract should exclude the steel members constructed as part of the seismic retrofit at the north and south ends of the steel beam spans.

Steel Bridge Paint Form

2013-15 Biennium Priorities



Bridge Number:	Bridge Name:	Milepost:	Region:
5 / 40E	LEWIS R	19.87	Southwest

Year Built	Bridge Type:	Steel Span Length:	Width (curb-curb):	Steel Tonnage:
1968	ST CBOX	810 ft.	48 ft.	1,117

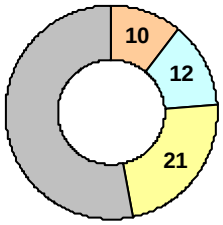
Paint Age:	Paint Color: 34097	Steel Surf. Area:	BMS Cond State 2:	BMS Cond State 3:
21	Evergreen	167,550 sqft	55,850 sqft	50,265 sqft

Next Paint Year:	2013-15 Rank:	Past Due / Due / OK	CPMS Ad date:	Paint Pin Number:	Future Paint Cost:
2014	3	Past Due			$7,546,064

Past Paint History

Years	Cycle
1990	12
1978	10
1968	

Painting Cycle



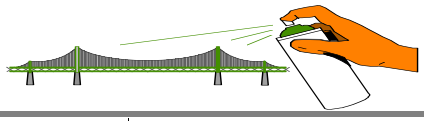
= Current Paint Age

Bridge Inspector's Note:
Peeling and cracking paint on stringers and floor beams. Up to 30% of surface area of upper truss has surface rust. Paint is peeling on the inside of the bottom chord. Some blistering on the tops of the diagonals.

Bridge Painting Recommendation:
The Bridge Office recommends full removal of the existing paint system and the application of a new Paint System per standard specs 6-07. DLW 8-20-10

Steel Bridge Paint Form

2013-15 Biennium Priorities



Bridge Number:	Bridge Name:	Milepost:	Region:
5 / 40W	LEWIS R	19.83	Southwest

Year Built	Bridge Type:	Steel Span Length:	Width (curb-curb):	Steel Tonnage:
1940	ST CTB	810 ft.	48 ft.	1,536

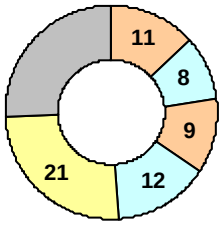
Paint Age:	Paint Color: 34097	Steel Surf. Area:	BMS Cond State 2:	BMS Cond State 3:
21	Evergreen	230,400 sqft	138,240 sqft	11,520 sqft

Next Paint Year:	2013-15 Rank:	Past Due / Due / OK	CPMS Ad date:	Paint Pin Number:	Future Paint Cost:
2014	2	Past Due			$10,063,320

Past Paint History

Years	Cycle
1990	12
1978	9
1969	8
1961	11
1950	

Painting Cycle



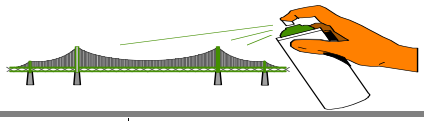
= Current Paint Age

Bridge Inspector's notes:
Paint is peeling and cracking over large areas of the steel truss surface. Freckeled rust spots throughout the truss. Primer is visible in many areas due to the loss of the top coat. Portal frame faces are rusty. Top chord, top surfaces of top chords from U1 thru U29 have bare metal visible. Sway frames and cross bracing have bare metal visible. Floorbeams and stringers have many areas of peeling paint with surface rust.

Bridge Painting Recommendation:
The Bridge Office recommends full removal of the existing paint system and the application of a new Paint System per standard specs 6-07. DLW 8-20-10

Steel Bridge Paint Form

2013-15 Biennium Priorities



Bridge Number:	Bridge Name:	Milepost:	Region:
5 / 104W	DIKE ACCESS RD & RR OC	22.72	Southwest

Year Built	Bridge Type:	Steel Span Length:	Width (curb-curb):	Steel Tonnage:
1972	SB	675 ft.	52 ft.	810

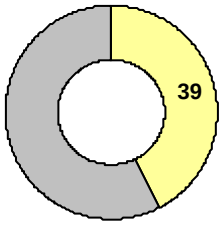
Paint Age:	Paint Color: G-148	Steel Surf. Area:	BMS Cond State 2:	BMS Cond State 3:
39	Steel Gray	89,100 sqft	1,000 sqft	0 sqft

Next Paint Year:	2013-15 Rank:	Past Due / Due / OK	CPMS Ad date:	Paint Pin Number:	Future Paint Cost:
2020	35	Due			$2,227,500

Past Paint History

Years	Cycle
1972	

Painting Cycle



= Current Paint Age

No Photo Available

No Photo Available

The paint still looks to be in good condition. There are a few areas of rust staining on the bottom flange of the steel beams.

The cost to replace this bridge is approximately 52'x 675'x $400/SF = $14.0 million.

Steel Bridge Paint Form

2013-15 Biennium Priorities

Bridge Number:	Bridge Name:	Milepost:	Region:
5 / 105W	BN RR OC (NP)	26.01	Southwest

Year Built	Bridge Type:	Steel Span Length:	Width (curb-curb):	Steel Tonnage:
1972	SB	384 ft.	52 ft.	400

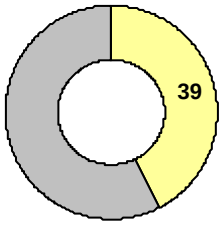
Paint Age:	Paint Color: G-148	Steel Surf. Area:	BMS Cond State 2:	BMS Cond State 3:
39	Steel Gray	44,000 sqft	0 sqft	880 sqft

Next Paint Year:	2013-15 Rank:	Past Due / Due / OK	CPMS Ad date:	Paint Pin Number:	Future Paint Cost:
2020	34	Due			$1,100,000

Past Paint History

Years	Cycle
1972	

Painting Cycle



= Current Paint Age

The paint still looks to be in good condition. There are a few areas of rust staining on the bottom flange of the steel beams.

Steel Bridge Paint Form

2013-15 Biennium Priorities

Bridge Number:	Bridge Name:	Milepost:	Region:
5 / 203E	COWLITZ R	59.06	Southwest

Year Built	Bridge Type:	Steel Span Length:	Width (curb-curb):	Steel Tonnage:
1953	ST CTB	483 ft.	33 ft.	588

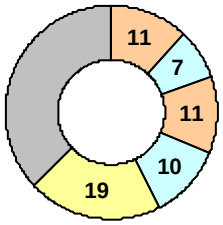
Paint Age:	Paint Color: 34097	Steel Surf. Area:	BMS Cond State 2:	BMS Cond State 3:
19	Evergreen	88,200 sqft	40,000 sqft	1,000 sqft

Next Paint Year:	2013-15 Rank:	Past Due / Due / OK	CPMS Ad date:	Paint Pin Number:	Future Paint Cost:
2020	31	Due			$2,205,000

Past Paint History

Years	Cycle
1992	10
1982	11
1971	7
1964	11
1953	

Painting Cycle



= Current Paint Age

First project to use the current 3-part; Zinc prime coat , MC urethane intermediate and final coat.

Bridge Inspection Notes:
There are rust blooms and bare spots throughout. Paint on top of the top chords is weathered with some rust blooms and peeling paint. The sides of top chords, the verticals, and the diagonals are typically moss stained.
The tops of the floorbeam bottom flanges have thick paint with some cracking and flaking over about 10 percent of the surface area.
The tops of stringer bottom flanges have scattered areas of peeling paint.

Steel Bridge Paint Form

2013-15 Biennium Priorities

Bridge Number:	Bridge Name:	Milepost:	Region:
5 / 203W	COWLITZ R	59.06	Southwest

Year Built	Bridge Type:	Steel Span Length:	Width (curb-curb):	Steel Tonnage:
1953	ST CTB	483 ft.	31.9 ft.	588

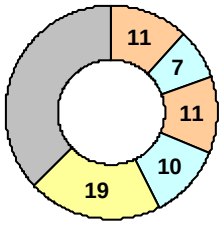
Paint Age:	Paint Color: 34097	Steel Surf. Area:	BMS Cond State 2:	BMS Cond State 3:
19	Evergreen	88,200 sqft	800 sqft	100 sqft

Next Paint Year:	2013-15 Rank:	Past Due / Due / OK	CPMS Ad date:	Paint Pin Number:	Future Paint Cost:
2020	30	Due			$2,205,000

Past Paint History

Years	Cycle
1992	10
1982	11
1971	7
1964	11
1953	

Painting Cycle



= Current Paint Age

No Photo Available

First project to use the current 3-part; Zinc prime coat , MC urethane intermediate and final coat.

The cost to replace this bridge is approximately 36'x 760'x $400/SF = $11.0 million.

Steel Bridge Paint Form

2013-15 Biennium Priorities

Bridge Number:	Bridge Name:	Milepost:	Region:
5 / 232E	SKOOKUMCHUCK R	82.28	Southwest

Year Built	Bridge Type:	Steel Span Length:	Width (curb-curb):	Steel Tonnage:
1951	ST CTB	160 ft.	31 ft.	181

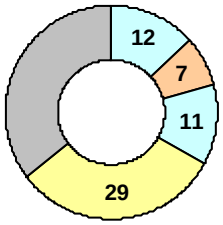
Paint Age:	Paint Color: 34097	Steel Surf. Area:	BMS Cond State 2:	BMS Cond State 3:
29	Evergreen	27,150 sqft	14,297 sqft	572 sqft

Next Paint Year:	2013-15 Rank:	Past Due / Due / OK	CPMS Ad date:	Paint Pin Number:	Future Paint Cost:
2012	1	Past Due			$1,267,000

Past Paint History

Years	Cycle
1982	11
1971	7
1964	12
1952	

Painting Cycle



= Current Paint Age

This bridge was going to be replaced but due to estimated high project costs the SW Region decided to leave this bridge in service and build a parallel Collector/Distributer ramp bridge.

This paint on this bridge is the oldest of any WSDOT steel truss bridge not to be replaced.

The next painting project (around 2013) will require full removal of the existing paint using an SSPC-SP6 standard and then applying a new zinc-moisture cured urethane paint system.

Steel Bridge Paint Form

2013-15 Biennium Priorities

Bridge Number:	Bridge Name:	Milepost:	Region:
5 / 232W	SKOOKUMCHUCK R	82.28	Southwest

Year Built	Bridge Type:	Steel Span Length:	Width (curb-curb):	Steel Tonnage:
1951	ST CTB	160 ft.	31 ft.	181

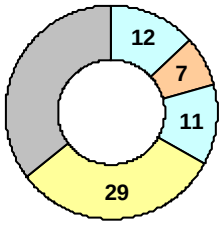
Paint Age:	Paint Color: 34097	Steel Surf. Area:	BMS Cond State 2:	BMS Cond State 3:
29	Evergreen	27,150 sqft	5,000 sqft	1,500 sqft

Next Paint Year:	2013-15 Rank:	Past Due / Due / OK	CPMS Ad date:	Paint Pin Number:	Future Paint Cost:
2012	1	Past Due			$1,267,000

Past Paint History

Years	Cycle
1982	11
1971	7
1964	12
1952	

Painting Cycle



= Current Paint Age

This bridge was going to be replaced but due to estimated high project costs the SW Region decided to leave this bridge in service and build a parallel Collector/Distributer ramp bridge.

This paint on this bridge is the oldest of any WSDOT bridge not to be replaced.

The next painting project (around 2013) will require full removal of the existing paint using an SSPC-SP6 standard and then applying a new zinc-moisture cured urethane paint system.

Steel Bridge Paint Form

2013-15 Biennium Priorities

Bridge Number:	Bridge Name:	Milepost:	Region:
6 / 118	CHEHALIS R ADNA	46.59	Southwest

Year Built	Bridge Type:	Steel Span Length:	Width (curb-curb):	Steel Tonnage:
1971	SB	406 ft.	40 ft.	285

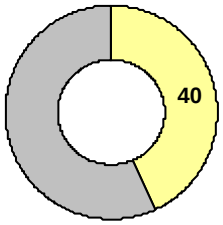
Paint Age:	Paint Color: G-148	Steel Surf. Area:	BMS Cond State 2:	BMS Cond State 3:
40	Steel Gray	31,350 sqft	12,000 sqft	30 sqft

Next Paint Year:	2013-15 Rank:	Past Due / Due / OK	CPMS Ad date:	Paint Pin Number:	Future Paint Cost:
2024	54	Due			$783,750

Past Paint History

Years	Cycle
1971	

Painting Cycle



= Current Paint Age

The steel beams are a combination of A588 weathering steel and A441. The areas under the expansion joints at piers 1 & 4 are A441.

Bridge Inspection Notes:
Chalky thin paint on body of girder webs. Several 1" diameter paint chips on outside girders. Girders have newer paint on the west face compared to the rest of the girders. Girder 2B has paint blistered off the flange connection bolts.

Steel Bridge Paint Form

2013-15 Biennium Priorities

Bridge Number:	Bridge Name:	Milepost:	Region:
12 / 241	TWIN CANYON CR	89.48	Southwest

Year Built	Bridge Type:	Steel Span Length:	Width (curb-curb):	Steel Tonnage:
1967	SB	410 ft.	28 ft.	177

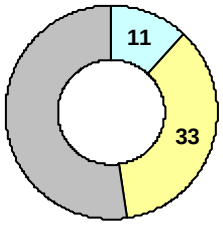
Paint Age:	Paint Color: 30277	Steel Surf. Area:	BMS Cond State 2:	BMS Cond State 3:
33	Light Brown	19,470 sqft	402 sqft	27 sqft

Next Paint Year:	2013-15 Rank:	Past Due / Due / OK	CPMS Ad date:	Paint Pin Number:	Future Paint Cost:
2024	50	Due			$486,750

Past Paint History

Years	Cycle
1978	11
1967	

Painting Cycle



= Current Paint Age

The bridge has three steel girders with a 7'-4" height and spaced 11.5' apart.

Steel Bridge Paint Form

2013-15 Biennium Priorities

Bridge Number:	Bridge Name:	Milepost:	Region:
12 / 309	WILDCAT CR	165.95	Southwest

Year Built	Bridge Type:	Steel Span Length:	Width (curb-curb):	Steel Tonnage:
1936	SB TTT	35 ft.	26 ft.	10

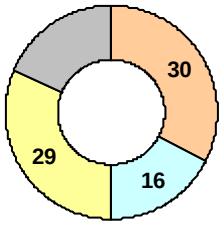
Paint Age:	Paint Color: 30318	Steel Surf. Area:	BMS Cond State 2:	BMS Cond State 3:
29	Warm Conc Gray	1,100 sqft	110 sqft	110 sqft

Next Paint Year:	2013-15 Rank:	Past Due / Due / OK	CPMS Ad date:	Paint Pin Number:	Future Paint Cost:
2018	18	Past Due			$200,000

Past Paint History

Years	Cycle
1982	16
1966	30
1936	

Painting Cycle

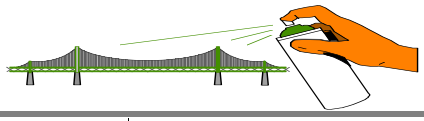


= Current Paint Age

Bridge Inspector's Notes:
Paint has failed in many areas but mostly at east end of girders and diaphragm over Pier 5. Rust blooms in several areas of the girder flanges.

Steel Bridge Paint Form

2013-15 Biennium Priorities



Bridge Number:	Bridge Name:	Milepost:	Region:
97 / 1	BIGGS RAPIDS-SAM HILL BR	0.00	Southwest

Year Built	Bridge Type:	Steel Span Length:	Width (curb-curb):	Steel Tonnage:
1962	ST SB	2567 ft.	26 ft.	1,847

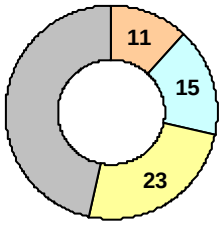
Paint Age:	Paint Color: 30099	Steel Surf. Area:	BMS Cond State 2:	BMS Cond State 3:
23	Warm Brown	277,050 sqft	133,000 sqft	81,200 sqft

Next Paint Year:	2013-15 Rank:	Past Due / Due / OK	CPMS Ad date:	Paint Pin Number:	Future Paint Cost:
2014	9	Past Due	5/7/2014	409712P	$12,605,100

Past Paint History

Years	Cycle
1988	15
1973	11
1962	

Painting Cycle



= Current Paint Age

This is a border bridge that is maintained by Washington and reimbursed 50% by Oregon. There is one steel truss main span with steel girder approach spans. The bridge deck was replaced in 2009.

Bridge Inspection notes:
The paint is peeling and curling with exposed and rusty spots on the webs of the girders.

Bridge Office Recommendations:
Full removal of the existing paint and apply a new three coat moisture cured urethane paint. Bridge rail is excluded since it was installed in 2009.

Steel Bridge Paint Form

2013-15 Biennium Priorities

Bridge Number:	Bridge Name:	Milepost:	Region:
101 / 1(B)	COL R ASTORIA - OR SIDE	0.00	Southwest

Year Built	Bridge Type:	Steel Span Length:	Width (curb-curb):	Steel Tonnage:
	ST SG	ft.	ft.	

Paint Age:	Paint Color:	Steel Surf. Area:	BMS Cond State 2:	BMS Cond State 3:
		sqft	sqft	sqft

Next Paint Year:	2013-15 Rank:	Past Due / Due / OK	CPMS Ad date:	Paint Pin Number:	Future Paint Cost:
2011	1	ODOT			$21,048,352

Past Paint History

Years

Cycle

Painting Cycle

= Current Paint Age

No Photo Available

No Photo Available

The Oregon DOT maintains the US 101 Astoria bridge. ODOT is scheduled to repaint the steel spans on the Oregon/Astoria side in 2011. WSDOT will pay 1/2 of the project costs.

Steel Bridge Paint Form

2013-15 Biennium Priorities

Bridge Number:	Bridge Name:	Milepost:	Region:
101 / 29	SOUTH NEMAH R NO 1	32.52	Southwest

Year Built	Bridge Type:	Steel Span Length:	Width (curb-curb):	Steel Tonnage:
1957	SB	48 ft.	29 ft.	20

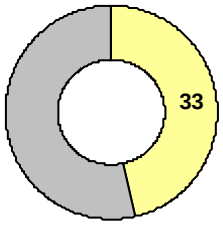
Paint Age:	Paint Color:	N/A	Steel Surf. Area:	BMS Cond State 2:	BMS Cond State 3:
33	N/A		2,200 sqft	1,750 sqft	220 sqft

Next Paint Year:	2013-15 Rank:	Past Due / Due / OK	CPMS Ad date:	Paint Pin Number:	Future Paint Cost:
2024	58	Due			$200,000

Past Paint History

Years	Cycle
1978	

Painting Cycle



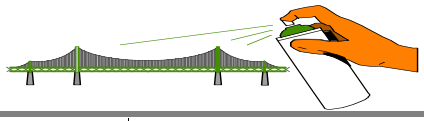
= Current Paint Age

Since this bridge has a small tonnage the region's maintenance personel may be able to paint the rusted areas with the "Devoe" rust penetrating sealer.

Bridge Inspector's note:
Paint blisters along girder flanges with rust under the blisters and rust blooms all over webs. Paint failed with heavy rust at several bottom flange splice plates.

Steel Bridge Paint Form

2013-15 Biennium Priorities



Bridge Number:	Bridge Name:	Milepost:	Region:
141 / 5	WHITE SALMON RIVER	8.70	Southwest

Year Built	Bridge Type:	Steel Span Length:	Width (curb-curb):	Steel Tonnage:
1940	ST CTB	120 ft.	27 ft.	96

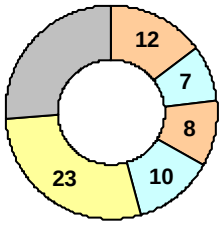
Paint Age:	Paint Color: 34097	Steel Surf. Area:	BMS Cond State 2:	BMS Cond State 3:
23	Evergreen	21,717 sqft	4,600 sqft	7,200 sqft

Next Paint Year:	2013-15 Rank:	Past Due / Due / OK	CPMS Ad date:	Paint Pin Number:	Future Paint Cost:
2014	8	Past Due	5/7/2014	414110P	$860,524

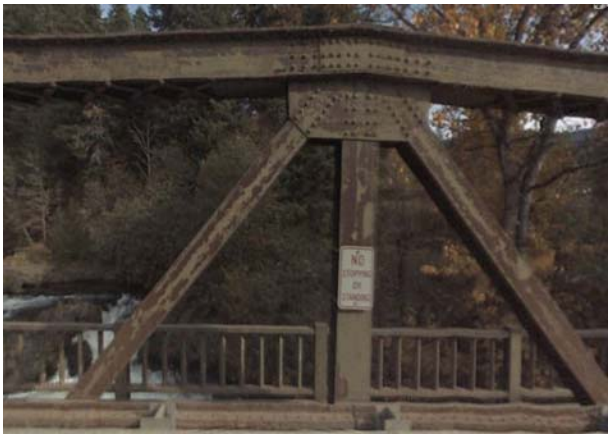
Past Paint History

Years	Cycle
1988	10
1978	8
1970	7
1963	12
1951	

Painting Cycle



= Current Paint Age

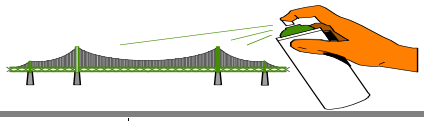


STRINGERS: Rust stains and light rust on the top flanges.
TRUSS: The paint has failed on many members of the steel truss.
The amount of paint failure (over 53%) on the trusses warrants full removal.
Planned costs are estimated to be:
Total cost per surface Area is $39.6/SF (21,717 / $860,524)
Total cost per tonnage is $8,963/ton ($860,524 / 96)
Total cost per deck area is $265.6/SF ($860,524 / 3,240)
Bridge Replacement cost is estimated to be $7.7 million (40'x193' x $1,000)

Bridge Office Recommendations:
Full removal of the existing paint and apply a new three coat moisture cured urethane paint.

Steel Bridge Paint Form

2013-15 Biennium Priorities



Bridge Number:	Bridge Name:	Milepost:	Region:
409 / 10	JULIA BUTLER HANSEN BR	2.92	Southwest

Year Built	Bridge Type:	Steel Span Length:	Width (curb-curb):	Steel Tonnage:
1938	ST PCB SG CTB	1274 ft.	20 ft.	1,194

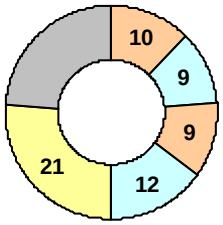
Paint Age:	Paint Color: 26307	Steel Surf. Area:	BMS Cond State 2:	BMS Cond State 3:
21	Light Gray	179,100 sqft	89,550 sqft	17,910 sqft

Next Paint Year:	2013-15 Rank:	Past Due / Due / OK	CPMS Ad date:	Paint Pin Number:	Future Paint Cost:
2018	15	Past Due			$7,761,000

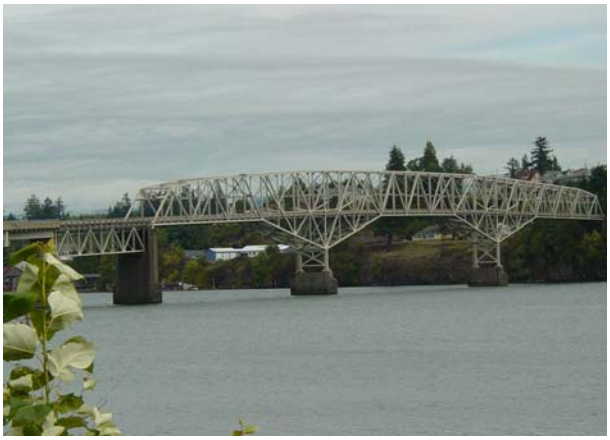
Past Paint History

Years	Cycle
1990	12
1978	9
1969	9
1960	10
1950	

Painting Cycle



= Current Paint Age



Portions of the bridge will require full removal of the exiting paint.
Bridge Inspector's notes:
Floorbeams in general have thin chalky paint and essentially no topcoat. Many stringers have thin and flaking paint on flanges. Welded steel girders in Span 13 have small areas of flaking and thin paint as well as holidays.
Piers 16 and 17 steel columns have peeling rough paint on struts and cross bracing. There are many areas of peeling paint and thin or no paint inside the bottom chord especially at the joints. Thin, missing, peeled off and rusty paint on 25% of the bottom chord and diagonals. L21-L22 west truss shows typical rust blooms and paint condition of truss members. Top sways, cross bracing and top chords have many paint holidays in the topcoat, thin paint and rusty spots on 10% of area.

Steel Bridge Paint Form

2013-15 Biennium Priorities

Bridge Number:	Bridge Name:	Milepost:	Region:
432 / 10S	COWLITZ R & NP RY OC	9.58	Southwest

Year Built	Bridge Type:	Steel Span Length:	Width (curb-curb):	Steel Tonnage:
1961	ST CBOX	300 ft.	29.5 ft.	318

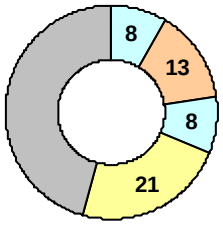
Paint Age:	Paint Color: 34097	Steel Surf. Area:	BMS Cond State 2:	BMS Cond State 3:
21	Evergreen	47,700 sqft	13,000 sqft	1,000 sqft

Next Paint Year:	2013-15 Rank:	Past Due / Due / OK	CPMS Ad date:	Paint Pin Number:	Future Paint Cost:
2020	37	Due			$2,226,000

Past Paint History

Years	Cycle
1990	8
1982	13
1969	8
1961	

Painting Cycle

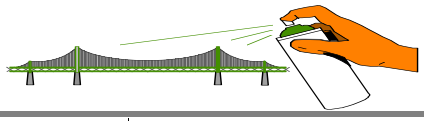


= Current Paint Age

Bridge Inspection Notes:
Peeling paint is typical throughout the truss. There is surface rust on the stringers, floorbeams, and sway bracing. The truss shows bare metal in places, especially on the south side surfaces.
Stringers - There are five stringers per panel. There is rusting in spots, including surface pitting and minor section loss at the top flange including the copes. There are mud and rust stains at all the seats.
Floorbeams - There are eleven 2ft. 10in. deep floorbeams in Span 7 that have rusting top flanges and laminar rust forming at some locations. The floorbeams are covered with mud and rust staining.

Steel Bridge Paint Form

2013-15 Biennium Priorities



Bridge Number:	Bridge Name:	Milepost:	Region:
433 / 1	COLUMBIA R-LEWIS&CLARK B	0.00	Southwest

Year Built	Bridge Type:	Steel Span Length:	Width (curb-curb):	Steel Tonnage:
1929	ST SB	5478 ft.	34.2 ft.	14,236

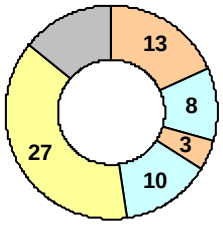
Paint Age:	Paint Color: 26329	Steel Surf. Area:	BMS Cond State 2:	BMS Cond State 3:
27	Steel Gray	2,135,400 sqft	438,600 sqft	110,000 sqft

Next Paint Year:	2013-15 Rank:	Past Due / Due / OK	CPMS Ad date:	Paint Pin Number:	Future Paint Cost:
2010	1	Construction			$30,000,000

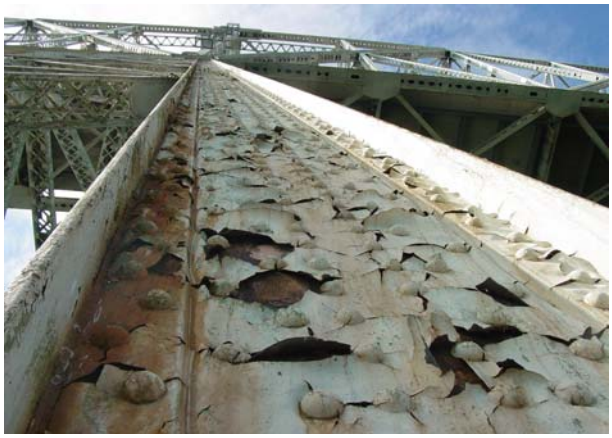
Past Paint History

Years	Cycle
1984	10
1974	3
1971	8
1963	13
1950	

Painting Cycle



= Current Paint Age

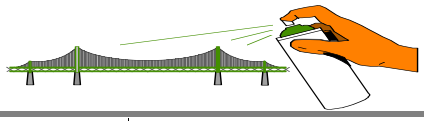


A contract from 2006 thru 2008 painted the Oregon approach to the main truss span and the superstructure of the Washington approach.
The existing paint is deteriorating and in need of replacement with a new paint system. A decision was made to totally removal all the existing paint and replace it with a new 3 coat system. A contract began in 2009 to paint the main span towers (Piers 1,2,3)and the towers under the Washington Approach span.

A Stimulus funded project is planned for 2010 to paint the remaining portions of the bridge including the main steel truss. The painting project will be administered by WSDOT with ODOT participating in 1/2 of the total costs.

Steel Bridge Paint Form

2013-15 Biennium Priorities



Bridge Number:	Bridge Name:	Milepost:	Region:
504 / 15	N FK TOUTLE R KID VALLEY	17.29	Southwest

Year Built	Bridge Type:	Steel Span Length:	Width (curb-curb):	Steel Tonnage:
1965	SB PCB	424 ft.	28 ft.	219

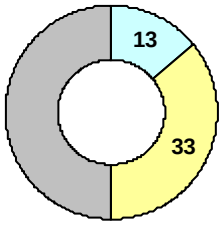
Paint Age:	Paint Color: 30277	Steel Surf. Area:	BMS Cond State 2:	BMS Cond State 3:
33	Light Brown	24,090 sqft	200 sqft	50 sqft

Next Paint Year:	2013-15 Rank:	Past Due / Due / OK	CPMS Ad date:	Paint Pin Number:	Future Paint Cost:
2024	57	Due			$602,250

Past Paint History

Years	Cycle
1978	13
1965	

Painting Cycle



= Current Paint Age

No Photo Available

Bridge Inspector's Note:

The paint has rusty scatches and occational rust blooms throughout.

P2 Bridge Preservation - Seismic Retrofit

2013-15 Bien Priority Array (priority 1-100)

(Sorted by Bridge Number)

13-15 #	Bridge Number	Bridge Name	Mile post	Region	Bridge Item$'s	Total$'s
Total Number of Bridges = 0				Total$ =	$0	$0

WSDOT Scour Projects - 2013-15 Bien

(Sorted by Priority Number)

13-15 #	Bridge Number	Bridge Name	Length	Mile post	Region	PIN #	Year Planned	Project Total$'s
13	012/265	COWLITZ RIVER CORA	554	122.76	Southwest		2018	$806,562
15	097/022	KUSSHI CR	60	32.78	Southwest		2020	$536,715

Total Number of Bridges = 2

Total Bien$'s = $1,343,277

WSDOT Bridge over Water

Scour Form

Bridge ID:	Bridge Number:	Bridge Name:	State Route: 12	Region: Southwest
0003348A	12/265	COWLITZ R CORA	Mile Post: 122.76	Cnty: Lewis

Year Built: 1948	Span Type:	ADT: 4800	Structure Length: 554 ft.	main span 1	Detour Length:
Rebuilt:	STrus SRB	ADT Truck Pct: 14 %	Width: 26 ft.	aprch: 5	18 miles

Substructure Stability: Code: 1	Streambed Material: 3	Scour History: Code: H	Last Scour repair Project
Spread footing, simple spans.	Gravel	History of scour problems but scour conditions are now stable.	Yr: C#:

Scour Code:	Scour Rating Description:	Substr Code:	sufficiency_rating:
3	Bridge is scour critical; bridge foundations determined unstable for calculated scour depths: 1) Within limits of footings or piles (Figure WB 76-80B) 2) Below footing base or pile tips (Figure WB 76-80C).	6	71.37 FO

Deficiencies:

The river flooded in the Fall of 2006. Some of the riprap in place at Piers 4, 5 and 6 (up to 6 ft. diameter rock) has been displaced or washed away. Riprap gone from Pier 6 upstream nose and approximately 15 ft. of bank scoured up to eight ft.
Pier 4 (appr span) has approx 13ft of earth over footing. Pier 5 and 6 are spread footings.

First Noted:	1/23/2007
BPO Repair List Priority:	1
Funding - P2 or M:	P2
BPO Repair Num:	10005
Project PIN:	

Recommended Action:

BPO - Replace and/or reset missing and displaced riprap at Piers 4, 5 and 6.

11-13 Priority Rank:	
13-15 Priority Rank:	13
Total Cost Estimate:	$806,562

WSDOT Bridge over Water

Scour Form

Bridge ID:	Bridge Number:	Bridge Name:	State Route: 97	Region: Southwest
0003015A	97/22	KUSSHI CR	Mile Post: 32.78	Cnty: Klickitat

Year Built: 1945	Span Type:	ADT: 3596	Structure Length: 60 ft.	main span 2	Detour Length:
Rebuilt:	CTB	ADT Truck Pct: 26 %	Width: 28 ft.	aprch: 0	39 miles

Substructure Stability: Code: 2	Streambed Material: 3	Scour History: Code: U	Last Scour repair Project
Spread footing, continuous spans.	Gravel	Scour history is unknown.	Yr: C#:

Scour Code:	Scour Rating Description:	Substr Code:	sufficiency_rating:
3	Bridge is scour critical; bridge foundations determined unstable for calculated scour depths: 1) Within limits of footings or piles (Figure WB 76-80B) 2) Below footing base or pile tips (Figure WB 76-80C).	6	68.35

Deficiencies:

Pier 3 (North Abutment) has exposed footing for full length. Sill exposed up to 1.5' along East half of P3. Heavy riprap placed on the NW bank. Debris is building up on the abutment. Footings are 2 feet thick with no seals. Plans indicate footings may be on bedrock.

First Noted:	4/18/2000
BPO Repair List Priority:	1
Funding - P2 or M:	P2
BPO Repair Num:	13125
Project PIN:	409705S

Recommended Action:

BPO - Repair riprap at Pier 3.

11-13 Priority Rank:	
13-15 Priority Rank:	15
Total Cost Estimate:	$536,715

Washington State Department of Transportation

Bridge and Structures Office

7/14/2011

P2 Bridge Preservation - Misc Structures Projects

2013-15 Bien Priority Array - Southwest Region

(Sorted by Priority Number)

13-15 #	Bridge Number	Bridge Name	Mile post	Region	Length	Total $
1	142/12.25	CREEK CULV	23.58	Southwest	8	$440,940
3	14/103	HALF BRIDGE	24.92	Southwest	75	$100,000
4	SB01685	HML23 @ I-205/SR14 IC	26.60	Southwest	100	$50,000
4	SB01686	HML20 @ I-205/SR14 IC	26.60	Southwest	100	$50,000
4	SB01687	HML18 @ I-205/SR14 IC	26.60	Southwest	100	$50,000
4	SB01688	HML08 @ I-205/SR14 IC	26.60	Southwest	100	$50,000
4	SB01698	HML21 @ I-205/SR14 IC	26.60	Southwest	100	$50,000
4	SB03187	HML17 @ I-205/SR14 IC	26.60	Southwest	100	$50,000
4	SB03392	HML03 @ I-205/SR14 IC	6.01	Southwest	100	$50,000
4	SB03393	HML02 @ I-205/SR14 IC	6.01	Southwest	100	$50,000
4	SB03394	HML07 @ I-205/SR14 IC	6.01	Southwest	100	$50,000
4	SB03395	HML09 @ I-205/SR14 IC	6.22	Southwest	100	$50,000
4	SB03396	HML22 @ I-205/SR14 IC	26.60	Southwest	100	$50,000
4	SB03397	HML25 @ I-205/SR14 IC	26.60	Southwest	100	$50,000
4	SB03399	HML19 @ I-205/SR14 IC	26.60	Southwest	100	$50,000
4	SB03477	HML06 @ I-205/SR14 IC	5.78	Southwest	100	$50,000
4	SB03478	HML04 @ I-205/SR14 IC	5.70	Southwest	100	$50,000
4	SB03484	HML05 @ I-205/SR14 IC	6.01	Southwest	100	$50,000
4	SB03485	HML14 @ I-205/SR14 IC	6.01	Southwest	100	$50,000
4	SB03486	HML15 @ I-205/SR14 IC	26.60	Southwest	100	$50,000
4	SB03569	HML11 @ I-205/SR14 IC	6.01	Southwest	100	$50,000
4	SB03570	HML13 @ I-205/SR14 IC	6.01	Southwest	100	$50,000
4	SB03571	HML12 @ I-205/SR14 IC	6.01	Southwest	100	$50,000
4	SB03572	HML10 @ I-205/SR14 IC	6.01	Southwest	100	$50,000
4	SB03774	HML24 @ I-205/SR14 IC	26.60	Southwest	100	$50,000
4	SB03806	HML16 @ I-205/SR14 IC	26.60	Southwest	100	$50,000
5	SB00192	HML69 @ I-205/Mill IC	28.33	Southwest	100	$50,000
5	SB01676	HML54 @ I-205/Mill IC	28.33	Southwest	100	$50,000
5	SB01678	HML66 @ I-205/Mill IC	28.33	Southwest	100	$50,000
5	SB01679	HML68 @ I-205/Mill IC	28.33	Southwest	100	$50,000
5	SB01680	HML57 @ I-205/Mill IC	28.33	Southwest	100	$50,000
5	SB01852	HML109 @ I-205/Mill IC	31.00	Southwest	100	$50,000
5	SB03487	HML65 @ I-205/Mill IC	28.33	Southwest	100	$50,000

P2 Bridge Preservation - Misc Structures Projects

2013-15 Bien Priority Array - Southwest Region

(Sorted by Priority Number)

13-15 #	Bridge Number	Bridge Name	Mile post	Region	Length	Total $
5	SB03488	HML56 @ I-205/Mill IC	28.33	Southwest	100	$50,000
5	SB03489	HML70 @ I-205/Mill IC	28.33	Southwest	100	$50,000
5	SB03490	HML58 @ I-205/Mill IC	28.33	Southwest	100	$50,000
10	SB01681	HML100 @ I-205/SR500 IC	31.00	Southwest	100	$50,000
10	SB01682	HML101 @ I-205/SR500 IC	31.00	Southwest	100	$50,000
10	SB01841	HML82 @ I-205/SR500 IC	31.00	Southwest	100	$50,000
10	SB01842	HML83 @ I-205/SR500 IC	31.00	Southwest	100	$50,000
10	SB01843	HML84 @ I-205/SR500 IC	31.00	Southwest	100	$50,000
10	SB01844	HML85 @ I-205/SR500 IC	31.00	Southwest	100	$50,000
10	SB01845	HML92 @ I-205/SR500 IC	31.00	Southwest	100	$50,000
10	SB01846	HML93 @ I-205/SR500 IC	31.00	Southwest	105	$50,000
10	SB01847	HML94 @ I-205/SR500 IC	31.00	Southwest	100	$50,000
10	SB01848	HML95 @ I-205/SR500 IC	31.00	Southwest	100	$50,000
10	SB01849	HML96 @ I-205/SR500 IC	31.00	Southwest	115	$50,000
10	SB01853	HML110 @ I-205/SR500 IC	31.00	Southwest	100	$50,000
10	SB01854	HML111 @ I-205/SR500 IC	31.00	Southwest	100	$50,000
10	SB01868	HML77 @ I-205/SR500 IC	31.00	Southwest	100	$50,000
10	SB01869	HML78 @ I-205/SR500 IC	31.00	Southwest	100	$50,000
10	SB01870	HML79 @ I-205/SR500 IC	31.00	Southwest	100	$50,000
10	SB01871	HML80 @ I-205/SR500 IC	31.00	Southwest	100	$50,000
10	SB03491	HML108 @ I-205/SR500 IC	31.00	Southwest	100	$50,000
10	SB03808	HML97 @ I-205/SR500 IC	31.00	Southwest	100	$50,000
10	SB03867	HML81 @ I-205/SR500 IC	31.00	Southwest	100	$50,000
11	SB01772	HML32 @ I-5/SR432 IC	36.00	Southwest	100	$50,000
11	SB01773	HML09 @ I-5/SR432 IC	36.00	Southwest	105	$50,000
11	SB01774	HML08 @ I-5/SR432 IC	36.00	Southwest	105	$50,000
11	SB01775	HML07 @ I-5/SR432 IC	36.00	Southwest	110	$50,000
11	SB01776	HML06 @ I-5/SR432 IC	36.00	Southwest	105	$50,000
11	SB01777	HML04 @ I-5/SR432 IC	36.00	Southwest	80	$50,000
11	SB02017	HML05 @ I-5/SR432 IC	36.00	Southwest	100	$50,000
11	SB02018	HML14 @ I-5/SR432 IC	36.00	Southwest	115	$50,000
11	SB02019	HML18 @ I-5/SR432 IC	36.00	Southwest	110	$50,000
11	SB02020	HML15 @ I-5/SR432 IC	36.00	Southwest	110	$50,000

P2 Bridge Preservation - Misc Structures Projects

2013-15 Bien Priority Array - Southwest Region

(Sorted by Priority Number)

13-15 #	Bridge Number	Bridge Name	Mile post	Region	Length	Total $
11	SB02021	HML16 @ I-5/SR432 IC	36.00	Southwest	120	$50,000
11	SB02022	HML19 @ I-5/SR432 IC	36.00	Southwest	100	$50,000
11	SB02023	HML17 @ I-5/SR432 IC	36.00	Southwest	110	$50,000
11	SB02024	HML33 @ I-5/SR432 IC	36.00	Southwest	105	$50,000
11	SB02025	HML34 @ I-5/SR432 IC	36.00	Southwest	105	$50,000
18	503/155.25	DOG CREEK CULVERT	35.85	Southwest	10	$1,000,000

Total Number of Bridges = 72

P2 Bridge Preservation - Misc Structures Projects

2013-15 Bien Priority Array - Southwest Region

(Sorted by Bridge Number)

13-15 #	Bridge Number	Bridge Name	Mile post	Region	Length	Total $
3	14/103	HALF BRIDGE	24.92	Southwest	75	$100,000
1	142/12.25	CREEK CULV	23.58	Southwest	8	$440,940
18	503/155.25	DOG CREEK CULVERT	35.85	Southwest	10	$1,000,000
5	SB00192	HML69 @ I-205/Mill IC	28.33	Southwest	100	$50,000
5	SB01676	HML54 @ I-205/Mill IC	28.33	Southwest	100	$50,000
5	SB01678	HML66 @ I-205/Mill IC	28.33	Southwest	100	$50,000
5	SB01679	HML68 @ I-205/Mill IC	28.33	Southwest	100	$50,000
5	SB01680	HML57 @ I-205/Mill IC	28.33	Southwest	100	$50,000
10	SB01681	HML100 @ I-205/SR500 IC	31.00	Southwest	100	$50,000
10	SB01682	HML101 @ I-205/SR500 IC	31.00	Southwest	100	$50,000
4	SB01685	HML23 @ I-205/SR14 IC	26.60	Southwest	100	$50,000
4	SB01686	HML20 @ I-205/SR14 IC	26.60	Southwest	100	$50,000
4	SB01687	HML18 @ I-205/SR14 IC	26.60	Southwest	100	$50,000
4	SB01688	HML08 @ I-205/SR14 IC	26.60	Southwest	100	$50,000
4	SB01698	HML21 @ I-205/SR14 IC	26.60	Southwest	100	$50,000
11	SB01772	HML32 @ I-5/SR432 IC	36.00	Southwest	100	$50,000
11	SB01773	HML09 @ I-5/SR432 IC	36.00	Southwest	105	$50,000
11	SB01774	HML08 @ I-5/SR432 IC	36.00	Southwest	105	$50,000
11	SB01775	HML07 @ I-5/SR432 IC	36.00	Southwest	110	$50,000
11	SB01776	HML06 @ I-5/SR432 IC	36.00	Southwest	105	$50,000
11	SB01777	HML04 @ I-5/SR432 IC	36.00	Southwest	80	$50,000
10	SB01841	HML82 @ I-205/SR500 IC	31.00	Southwest	100	$50,000
10	SB01842	HML83 @ I-205/SR500 IC	31.00	Southwest	100	$50,000
10	SB01843	HML84 @ I-205/SR500 IC	31.00	Southwest	100	$50,000
10	SB01844	HML85 @ I-205/SR500 IC	31.00	Southwest	100	$50,000
10	SB01845	HML92 @ I-205/SR500 IC	31.00	Southwest	100	$50,000
10	SB01846	HML93 @ I-205/SR500 IC	31.00	Southwest	105	$50,000
10	SB01847	HML94 @ I-205/SR500 IC	31.00	Southwest	100	$50,000
10	SB01848	HML95 @ I-205/SR500 IC	31.00	Southwest	100	$50,000
10	SB01849	HML96 @ I-205/SR500 IC	31.00	Southwest	115	$50,000
5	SB01852	HML109 @ I-205/Mill IC	31.00	Southwest	100	$50,000
10	SB01853	HML110 @ I-205/SR500 IC	31.00	Southwest	100	$50,000
10	SB01854	HML111 @ I-205/SR500 IC	31.00	Southwest	100	$50,000

P2 Bridge Preservation - Misc Structures Projects

2013-15 Bien Priority Array - Southwest Region

(Sorted by Bridge Number)

13-15 #	Bridge Number	Bridge Name	Mile post	Region	Length	Total $
10	SB01868	HML77 @ I-205/SR500 IC	31.00	Southwest	100	$50,000
10	SB01869	HML78 @ I-205/SR500 IC	31.00	Southwest	100	$50,000
10	SB01870	HML79 @ I-205/SR500 IC	31.00	Southwest	100	$50,000
10	SB01871	HML80 @ I-205/SR500 IC	31.00	Southwest	100	$50,000
11	SB02017	HML05 @ I-5/SR432 IC	36.00	Southwest	100	$50,000
11	SB02018	HML14 @ I-5/SR432 IC	36.00	Southwest	115	$50,000
11	SB02019	HML18 @ I-5/SR432 IC	36.00	Southwest	110	$50,000
11	SB02020	HML15 @ I-5/SR432 IC	36.00	Southwest	110	$50,000
11	SB02021	HML16 @ I-5/SR432 IC	36.00	Southwest	120	$50,000
11	SB02022	HML19 @ I-5/SR432 IC	36.00	Southwest	100	$50,000
11	SB02023	HML17 @ I-5/SR432 IC	36.00	Southwest	110	$50,000
11	SB02024	HML33 @ I-5/SR432 IC	36.00	Southwest	105	$50,000
11	SB02025	HML34 @ I-5/SR432 IC	36.00	Southwest	105	$50,000
4	SB03187	HML17 @ I-205/SR14 IC	26.60	Southwest	100	$50,000
4	SB03392	HML03 @ I-205/SR14 IC	6.01	Southwest	100	$50,000
4	SB03393	HML02 @ I-205/SR14 IC	6.01	Southwest	100	$50,000
4	SB03394	HML07 @ I-205/SR14 IC	6.01	Southwest	100	$50,000
4	SB03395	HML09 @ I-205/SR14 IC	6.22	Southwest	100	$50,000
4	SB03396	HML22 @ I-205/SR14 IC	26.60	Southwest	100	$50,000
4	SB03397	HML25 @ I-205/SR14 IC	26.60	Southwest	100	$50,000
4	SB03399	HML19 @ I-205/SR14 IC	26.60	Southwest	100	$50,000
4	SB03477	HML06 @ I-205/SR14 IC	5.78	Southwest	100	$50,000
4	SB03478	HML04 @ I-205/SR14 IC	5.70	Southwest	100	$50,000
4	SB03484	HML05 @ I-205/SR14 IC	6.01	Southwest	100	$50,000
4	SB03485	HML14 @ I-205/SR14 IC	6.01	Southwest	100	$50,000
4	SB03486	HML15 @ I-205/SR14 IC	26.60	Southwest	100	$50,000
5	SB03487	HML65 @ I-205/Mill IC	28.33	Southwest	100	$50,000
5	SB03488	HML56 @ I-205/Mill IC	28.33	Southwest	100	$50,000
5	SB03489	HML70 @ I-205/Mill IC	28.33	Southwest	100	$50,000
5	SB03490	HML58 @ I-205/Mill IC	28.33	Southwest	100	$50,000
10	SB03491	HML108 @ I-205/SR500 IC	31.00	Southwest	100	$50,000
4	SB03569	HML11 @ I-205/SR14 IC	6.01	Southwest	100	$50,000
4	SB03570	HML13 @ I-205/SR14 IC	6.01	Southwest	100	$50,000

P2 Bridge Preservation - Misc Structures Projects

2013-15 Bien Priority Array - Southwest Region

(Sorted by Bridge Number)

13-15 #	Bridge Number	Bridge Name	Mile post	Region	Length	Total $
4	SB03571	HML12 @ I-205/SR14 IC	6.01	Southwest	100	$50,000
4	SB03572	HML10 @ I-205/SR14 IC	6.01	Southwest	100	$50,000
4	SB03774	HML24 @ I-205/SR14 IC	26.60	Southwest	100	$50,000
4	SB03806	HML16 @ I-205/SR14 IC	26.60	Southwest	100	$50,000
10	SB03808	HML97 @ I-205/SR500 IC	31.00	Southwest	100	$50,000
10	SB03867	HML81 @ I-205/SR500 IC	31.00	Southwest	100	$50,000

Total Number of Bridges = 72

Bridge Preservation Program (P2)

Misc Struct Repair Info Form

Bridge Number:	Structure ID	Bridge Name:	Milepost:	Region:
14 / 103	0001444A	HALF BRIDGE	24.92	Southwest

Year Built / YR Widened:	Bridge Type:	Bridge Length:	Bridge Width (curb-curb):	Sufficiency Rating:
1930	CTB	75 ft	28.0 ft	47.17 SD

Average Daily Traffic:	Detour (miles)	Num of Lanes:
3,900	9	1

Date Inspected:	10/25/2005	Structr Adequacy:	4
Superstr Code:	7	Safe Load:	5
Substr Code:	4	Scour:	N

Project Number:		2013-15 Priority#:	
Repair Year:		2011-13 Priority#:	3
CPMS Ad Date:		Bridge $'s:	$50,000
		Repair Total$'s:	$100,000

Repair Description:

Shotcrete rock slope around foundations under half bridge

COMMENTS

Condition coded to a "4" due to exposed footings at Piers 2 and 3. Footing are on a steep erodable slope. Columns 2A, 2B, 3A, and 3B are founded on erodible rock and have exposed footings. Column 3A has 4" of exposed rebar due to lack of cover at the top of the north face. Spread footings at Columns 2A, 2B, 3A and 3B are sitting on highly weathered basalt (Photos #3-6) and are exposed. The supporting rock at the Pier 2 footings are eroded to a vertical face parallel to the footing face. An 18" concrete culvert dumps water on a concrete pad in the vicinity of the footings.

Bridge Preservation Program (P2)

Misc Struct Repair Info Form

Bridge Number:	Structure ID	Bridge Name:	Milepost:	Region:
142 / 12.25	00200279	CREEK CULV	23.58	Southwest

Year Built / YR Widened:	Bridge Type:	Bridge Length:	Bridge Width (curb-curb):	Sufficiency Rating:
1955	MCulv	8 ft	20.0 ft	68.26

Average Daily Traffic:	Detour (miles)	Num of Lanes:
680	25	2

Date Inspected:	5/5/2004	Structr Adequacy:	4
Superstr Code:	9	Safe Load:	5
Substr Code:	9	Scour:	3

Project Number:	414210A	2013-15 Priority#:	1
Repair Year:	2013	2011-13 Priority#:	2
CPMS Ad Date:	4/8/2013	Bridge $'s:	$150,000
		Repair Total$'s:	$448,710

Repair Description:

Replace Culvert

COMMENTS

Masonry Culvert is oriented south to north. SR 142 is oriented west to east. Culvert is located within the "Y" at SR 142 and Glenwood Road. Crack up to 1" wide and minimum 2" deep in ceiling along the centerline of the structure (transverse to direction of traffic). The only reinforcement appears to be two layers of welded wire fabric. Culvert is deteriorated with spalls, delams and rock pockets in ceiling. Walls are stone and mortar with leaching, missing mortar, and areas of patches. Unknown foundations.

Scheduled to be replaced in 2013.

P2 Misc Structures Program - Sign Support Structure

State Route	DIR	Milepost:	Structure Number	Sign Structure Location:
205		36.00	24 HML's	I-205 and SR14 Interchange

Year Built	Sign Structure Type:	Sign Struct Length:	contract Number:	County:	Region:
1976	HML	100.0 ft		Clark	Southwest

Average Daily Traffic:	Freight Route #:	Num of Lanes under:

Date Inspected:		Insp Freq (months):	
Superstr Code:		Foundation Code:	6
Substr Code:	6	Accessory Code:	6

Sign Structure Design:	High Mast Luminaire
Sign Structure Material:	Galvanized
# of Posts: 1	# of Bolts per Post: 4

Project Number:		2013-15 Priority#:	4
Repair Year:		2011-13 Priority#:	
CPMS Ad Date:		Bridge $'s:	
		Repair Total$'s:	$1,200,000

Repair Description:

Replace 24 High Mast Luminaires

COMMENTS

The Bridge Preservation Office has determined that the 24 High Mast Luminaires in the I-205 / SR14 Interchange are at risk of failure if there is design level wind event (90 mph).

SB01685, SB01686, SB01687, SB01688, SB01698, SB03187, SB03392, SB03393, SB03394, SB03395, SB03396, SB03397, SB03399, SB03477, SB03478, SB03484, SB03485, SB03486, SB03569, SB03570, SB03571, SB03572, SB03774, SB03806

P2 Misc Structures Program - Sign Support Structure

State Route	DIR	Milepost:	Structure Number	Sign Structure Location:
205		36.00	10 HML's	I-205 and Mill Plain Interchange

Year Built	Sign Structure Type:	Sign Struct Length:	contract Number:	County:	Region:
1976	HML	100.0 ft		Clark	Southwest

Average Daily Traffic:	Freight Route #:	Num of Lanes under:

Date Inspected:		Insp Freq (months):	
Superstr Code:		Foundation Code:	6
Substr Code:	6	Accessory Code:	6

Sign Structure Design:	High Mast Luminaire
Sign Structure Material:	Galvanized
# of Posts: 1	# of Bolts per Post: 4

Project Number:		2013-15 Priority#:	4
Repair Year:		2011-13 Priority#:	
CPMS Ad Date:		Bridge $'s:	
		Repair Total$'s:	$500,000

Repair Description:

Replace 10 High Mast Luminaires

COMMENTS

The Bridge Preservation Office has determined that the 10 High Mast Luminaires in the I-205 / Mill Plain Interchange are at risk of failure if there is design level wind event (90 mph).

SB00192, SB01676, SB01678, SB01679, SB01680, SB01852, SB03487, SB03488, SB03489, SB03490

P2 Misc Structures Program - Sign Support Structure

State Route	DIR	Milepost:	Structure Number	Sign Structure Location:
205		36.00	20 HML's	I-205 and SR500 Interchange

Year Built	Sign Structure Type:	Sign Struct Length:	contract Number:	County:	Region:
1976	HML	100.0 ft		Clark	Southwest

Average Daily Traffic:	Freight Route #:	Num of Lanes under:

Date Inspected:		Insp Freq (months):	
Superstr Code:		Foundation Code:	6
Substr Code:	6	Accessory Code:	6

Sign Structure Design:	High Mast Luminaire		
Sign Structure Material:	Galvanized		
# of Posts:	1	# of Bolts per Post:	4

Project Number:		2013-15 Priority#:	4
Repair Year:		2011-13 Priority#:	
CPMS Ad Date:		Bridge $'s:	
		Repair Total$'s:	$500,000

Repair Description:

Replace 20 High Mast Luminaires

COMMENTS

The Bridge Preservation Office has determined that the 20 High Mast Luminaires in the I-205 / SR500 Interchange are at risk of failure if there is design level wind event (90 mph).

SB01681, SB01682, SB01841, SB1842, SB01843, SB01844, SB01845, SB01846, SB01847, SB01848, SB01849, SB01853, SB01854, SB01868, SB01869, SB01870, SB01871, SB03491, SB03808, SB03867

P2 Misc Structures Program - Sign Support Structure

State Route	DIR	Milepost:	Structure Number	Sign Structure Location:
5		36.00	15 HML's	I-5 and SR432 Interchange

Year Built	Sign Structure Type:	Sign Struct Length:	contract Number:	County:	Region:
1976	HML	80.0 ft		Cowlitz	Southwest

Average Daily Traffic:	Freight Route #:	Num of Lanes under:

Date Inspected:		Insp Freq (months):	
Superstr Code:		Foundation Code:	6
Substr Code:	6	Accessory Code:	6

Sign Structure Design:	High Mast Luminaire		
Sign Structure Material:	Galvanized		
# of Posts:	1	# of Bolts per Post:	4

Project Number:		2013-15 Priority#:	11
Repair Year:		2011-13 Priority#:	
CPMS Ad Date:		Bridge $'s:	
		Repair Total$'s:	$1,400,000

Repair Description:

Replace 15 High Mast Luminaires

COMMENTS

The Bridge Preservation Office has determined that the 15 High Mast Luminaires in the I-5 / SR432 Interchange are at risk of failure if there is design level wind event (90 mph).

SB01772, SB01773, SB01774, SB01775, SB01776, SB01777, SB02017, SB02018, SB02019, SB02020, SB02021, SB02022, SB02023, SB02024, SB02025