

P2 Bridge Preservation - Replacement/Rehab Projects

2013-15 Bien Priority Array - North Central Region

(Sorted by Bridge Number)

13-15 #	Bridge Number	Bridge Name	Mile post	Region	Length	Future work Description
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Total Number of Bridges = 0



Special Bridge Repairs - 2013-15 Biennium - North Central

(Sorted by Priority#)

2013-15 Priority#:	Bridge Number	Bridge Name	Milepost	Region	Repair Description	Total\$'s
43	153/016	METHOW R	16.85	North Central	Concrete Bridge Rail	\$275,000
44	153/017	METHOW R	18.91	North Central	Concrete Bridge Rail	\$185,000
79	020/651	BONAPARTE CR	262.83	North Central	Replace Bridge Rail	\$700,000
3 Repairs					Sum of Bridge \$'s =	\$1,160,000

P2 Bridge Preservation - Concrete Deck Repair / Overlay Projects



2013-15 Bien Priority Array

(Sorted by Priority Number)



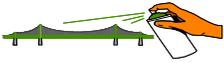
13-15 #	Bridge Number	Bridge Name	Mile post	Region	Width	Length	Total\$'s
2	24/302	SAGEHILL WASTEWAY	74.15	North Central	36.5	46	\$240,000
20	97/534	OKANOGAN R	291.90	North Central	28.0	418	\$1,170,400
Total Number of Bridges = 2					Totals \$ =		\$1,410,400



P2 Bridge Preservation - Steel Bridge Painting Projects

2013-15 Bien Priority Array

(Sorted by Priority Number)



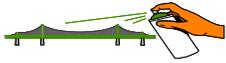
13-15 #	Bridge Number	Bridge Name	Mile Post	Region	Yr Work Planned	Total Project\$
19	207/4	WENATCHEE RIVER	4.22	North Central	2018	\$1,015,000
45	97/420	COLUMBIA R BEEBE	234.77	North Central	2022	\$4,860,000
46	285/10	SEN. GEORGE SELLAR BR.	0.16	North Central	2022	\$8,550,000
Total Number of Bridges = 3					Total Project \$ =	\$14,425,000



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\$
45	97/420	COLUMBIA R BEEBE	234.77	North Central	2022	\$4,860,000
19	207/4	WENATCHEE RIVER	4.22	North Central	2018	\$1,015,000
46	285/10	SEN. GEORGE SELLAR BR.	0.16	North Central	2022	\$8,550,000
Total Number of Bridges = 3					Total Project \$ =	\$14,425,000



Steel Bridge Paint Form

2013-15 Biennium Priorities

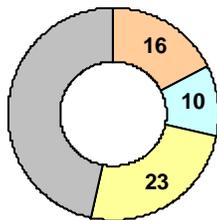


Bridge Number: 97 / 420		Bridge Name: COLUMBIA R BEEBE		Milepost: 235.06	Region: North Central
Year Built 1962	Bridge Type: SA CBOX	Steel Span Length: 1040 ft.	Width (curb-curb): 26 ft.	Steel Tonnage: 1,296	
Paint Age: 23	Paint Color: 20040 Dark Brown	Steel Surf. Area: 194,400 sqft	BMS Cond State 2: 20,000 sqft	BMS Cond State 3: 3,000 sqft	
Next Paint Year: 2022	2013-15 Rank: 45	Past Due / Due / OK Due	CPMS Ad date:	Paint Pin Number:	Future Paint Cost: \$4,860,000

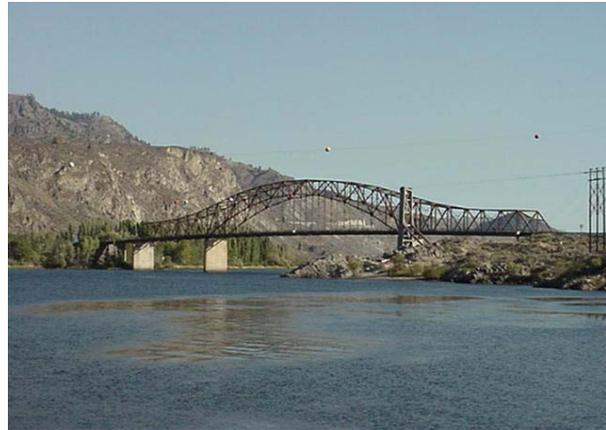
Past Paint History

Years	Cycle
1988	10
1978	16
1962	

Painting Cycle



■ = Current Paint Age



The vertical hangers are color Fed No 30318 - Light Brown.

Bridge Inspection Notes:

Various members of Spans 1, 2, and 3 have areas of peeled paint and primer exposing bare steel and have surface rust. Some of stringers show areas of laminar rust in the top flange at the floorbeam connections. Most of the bottom chord vertical gussets where three members in the vertical plane frame that were filled with dirt are now cleaned. Some of stringers show areas of laminar rust in the top flange at the floorbeam connections. Steel arch in Span 2. Light surface rust on many of the members.

Steel Bridge Paint Form

2013-15 Biennium Priorities

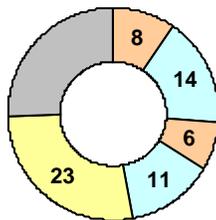


Bridge Number: 207 / 4		Bridge Name: WENATCHEE RIVER		Milepost: 4.22	Region: North Central
Year Built 1940	Bridge Type: ST CTB	Steel Span Length: 160 ft.	Width (curb-curb): 24 ft.	Steel Tonnage: 145	
Paint Age: 23	Paint Color: Evergreen	34097	Steel Surf. Area: 21,750 sqft	BMS Cond State 2: 5,000 sqft	BMS Cond State 3: 1,000 sqft
Next Paint Year: 2018	2013-15 Rank: 19	Past Due / Due / OK Past Due	CPMS Ad date:	Paint Pin Number:	Future Paint Cost: \$1,015,000

Past Paint History

Years	Cycle
1988	11
1977	6
1971	14
1957	8
1949	

Painting Cycle



■ = Current Paint Age



Bridge Inspection Notes:

Areas of peeling paint and blistered paint on steel stringers. Rust blooms and peeling paint scattered throughout top of truss and upper lateral brace members. STEEL TRUSS - Some rust pitting of panel point gusset plates. Heavy amounts of gravel and sand on the top of and inside of the bottom chord and lower panel point gusset plates. STEEL FLOOR BEAMS - Minor rust in top flanges at deck interface, due to leaking joints above.

Next Paint Project:

Remove all the existing paint and add a new zinc primer and moisture cured urethane.

Steel Bridge Paint Form

2013-15 Biennium Priorities

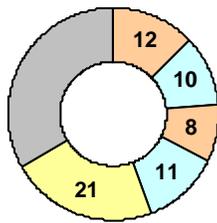


Bridge Number: 285 / 10		Bridge Name: SEN. GEORGE SELLAR BR.		Milepost: 0.25	Region: North Central
Year Built 1950	Bridge Type: SA CTB	Steel Span Length: 928 ft.	Width (curb-curb): 54 ft.	Steel Tonnage: 2,280	
Paint Age: 21	Paint Color: 30318 Warm Conc Gray	Steel Surf. Area: 342,000 sqft	BMS Cond State 2: 120,000 sqft	BMS Cond State 3: 300 sqft	
Next Paint Year: 2022	2013-15 Rank: 46	Past Due / Due / OK Due	CPMS Ad date:	Paint Pin Number:	Future Paint Cost: \$8,550,000

Past Paint History

Years	Cycle
1990	11
1979	8
1971	10
1961	12
1949	12

Painting Cycle



= Current Paint Age



Inspection Notes:

There are areas of peeling paint to the primer on all the truss and arch members, especially the bottom surfaces of most diagonals and horizontal members, and the bottom flanges and webs of the stringers and floorbeams. Any paint that is not peeling is slightly chalky. There is seam rust in some areas of the truss, arch and floorbeams. The metal pedestrian railing has a moderate amount of peeling paint.

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
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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
14	097/271	SWAUK CR NO 1	58	150.01	North Central		2020	\$812,101
Total Number of Bridges = 1							Total Bien\$'s =	\$812,101

WSDOT Bridge over Water

Scour Form

Bridge ID: 0014351A	Bridge Number: 97/271	Bridge Name: SWAUK CR NO 1	State Route: 97 Mile Post: 150.01	Region: North Central Cnty: Kittitas
Year Built: 1994 Rebuilt:	Span Type: PCBTG	ADT: 4600 ADT Truck Pct: 25 %	Structure Length: 58 ft. Width: 40 ft.	main span 1 aprch: 0 Detour Length: 99 miles
Substructure Stability: Code: 1 Spread footing, simple spans.	Streambed Material: 3 Gravel	Scour History: Code: U Scour history is unknown.	Last Scour repair Project Yr: 2005 C#: Maint	
Scour Code: 4	Scour Rating Description: Bridge foundations determined stable for calculated scour condition: field review indicates action is required to protect exposed foundations from effects of additional erosion.	Substr Code: 6	sufficiency_rating: 79.00	



Deficiencies: Pier 1 footing is exposed full width, up to 2' 6" deep (full depth of the footing). The thalweg travels from the face of the footing on the upstream side of the bridge to 6.5 feet from the face of Pier 1 on the downstream side. The wingwalls are also exposed for a length of 1' 9" upstream and 8' 0" downstream. Pier 1 has a 2'-6" deep footing and a 4'-0" seal. Pier 1 has a 2' 6" deep footing and a 4' 0" deep footing seal.	First Noted: 10/9/2009
	BPO Repair List Priority: 1
	Funding - P2 or M: P2
	BPO Repair Num: 10003
	Project PIN:
Recommended Action: BPO - Replace the riprap at the south abutment. Fill in the scour trench along the south abutment footing and sill with quarry spalls then top with heavy riprap. Reinforce and fill in the gaps in the the heavy riprap armoring along the upstream banks. Rebuild the heavy riprap drop structure on the downstream side of the bridge.	11-13 Priority Rank:
	13-15 Priority Rank: 14
	Total Cost Estimate: \$812,101

P2 Bridge Preservation - Misc Structures Projects

2013-15 Bien Priority Array - North Central Region

(Sorted by Priority Number)

13-15 #	Bridge Number	Bridge Name	Mile post	Region	Length	Total \$
6	97/359ALT	KNAPPS HILL TUNNEL	224.70	North Central	788	\$750,000

Total Number of Bridges = 1



Bridge Preservation Program (P2)

Misc Struct Repair Info Form

Bridge Number: 97 / 359ALT	Structure ID 0002093A	Bridge Name: KNAPPS HILL TUNNEL	Milepost: 224.70	Region: North Central
Year Built / YR Widened: 1936 / 1968	Bridge Type: CLTun TLTun	Bridge Length: 790 ft	Bridge Width (curb-curb): 25.3 ft	Sufficiency Rating:
Average Daily Traffic: 3,427	Detour (miles) 18	Num of Lanes: 2		
Date Inspected: 8/14/2007	Structr Adequacy:			
Superstr Code: 9	Safe Load: 5			
Substr Code: 9	Scour: N			
Project Number:	2013-15 Priority#:	6		
Repair Year:	2011-13 Priority#:	44		
CPMS Ad Date:	Bridge \$'s:	\$500,000		
	Repair Total\$'s:	\$750,000		



Repair Description:

Rehabilitate the Tunnel Liner (stage 4)

COMMENTS

The south portal and a 150ft interior section was rehabilitated and lined with shotcrete in 2001 as part of contract 5986. The north portal and a 150ft interior section with timber elements was rehabilitated and lined with shotcrete in 2003 as part of contract 6492.

A section of the tunnel was rehabilitated and lined in 2006 as part of contract 7049.

The remaining timber section (about 170 feet) will be rehabilitated in a project scheduled in the future.

