Misc Structures - Statewide - 2009-11 Biennium

(Sorted by 2009-11#)

Structure Number:	Structure Name:	Repair Description:	Region:	2009-11 Priority#:	Bridge$'s:
395/617.25	MARTIN CR AREA CULV	Remove Timber Animal Crossing	EA	1	
21/332.75	CURLEW CREEK	Replace the 4 existing Culverts with a new three-sided box.	SW	1	$150,000
142/012.25	CREEK CULV	Replace Culvert	SW	2	$150,000
14/103	HALF BRIDGE	Shotcrete rock slope around foundations under half bridge	SW	3	$50,000
SB01797	SIGN BRIDGE	Replace Sign Bridge.	NW	4	$110,000
SB00389	SIGN BRIDGE	Replace Sign Bridge with a new Cantilever Sign Structure.	NW	5	$51,000
SB01607	SIGN BRIDGE	Replace Sign Bridge	NW	6	$160,000
SB01373	SIGN BRIDGE	Replace Sign Bridge	NW	7	$70,000
4/209	HALF BR W OF BUNKER HILL	Replace Steel Span and upgrade bridge rail	SW	8	$350,000
14/215	TUNNEL	Add a shotcrete liner	SW	9	$600,000
97/359ALT	KNAPPS HILL TUNNEL	Rehabilitate the Tunnel Liner (stage 4)	NC	10	$500,000
SB00840	SIGN BRIDGE	Replace Sign Bridge	NW	11	$280,000
SB00606	CANTILEVER SIGN STRUCT	Replace Cantilever Sign Structure	OL	12	$20,000
SB01049	SIGN BRIDGE	Replace Sign Bridge	NW	13	$140,000
SB00007	CANTILEVER SIGN STRUCT	Replace Cantilever Sign Support	NC	14	$50,000
SB01696	SIGN BRIDGE	Replace Sign Bridge	NW	15	$100,000
SB00690	SIGN BRIDGE	Replace Sign Bridge	NW	16	$210,000
SB00807	CANTILEVER SIGN STRUCT	Replace Cantilever Sign Support	NW	17	$50,000
SB01114	SIGN BRIDGE	Replace Sign Bridge	NW	18	$175,000
SB01949	SIGN BRIDGE	Replace Sign Bridge	NW	19	$170,000
SB01105	SIGN BRIDGE	Replace Sign Bridge	OL	20	$120,000
21	Misc Structures			Sum of $'s =	$3,506,000

Misc Structures - Statewide - 2009-11 Biennium

(Sorted by Structure#)

Structure Number:	Structure Name:	Repair Description:	Region:	2009-11 Priority#:	Bridge$'s:
4/209	HALF BR W OF BUNKER HIL	Replace Steel Span and upgrade bridge rail	SW	8	$350,000
14/103	HALF BRIDGE	Shotcrete rock slope around foundations under half bridge	SW	3	$50,000
14/215	TUNNEL	Add a shotcrete liner	SW	9	$600,000
21/332.75	CURLEW CREEK	Replace the 4 existing Culverts with a new three-sided box.	SW	1	$150,000
142/012.25	CREEK CULV	Replace Culvert	SW	2	$150,000
395/617.25	MARTIN CR AREA CULV	Remove Timber Animal Crossing	EA	1	
97/359ALT	KNAPPS HILL TUNNEL	Rehabilitate the Tunnel Liner (stage 4)	NC	10	$500,000
SB00007	CANTILEVER SIGN STRUCT	Replace Cantilever Sign Support	NC	14	$50,000
SB00389	SIGN BRIDGE	Replace Sign Bridge with a new Cantilever Sign Structure.	NW	5	$51,000
SB00606	CANTILEVER SIGN STRUCT	Replace Cantilever Sign Structure	OL	12	$20,000
SB00690	SIGN BRIDGE	Replace Sign Bridge	NW	16	$210,000
SB00807	CANTILEVER SIGN STRUCT	Replace Cantilever Sign Support	NW	17	$50,000
SB00840	SIGN BRIDGE	Replace Sign Bridge	NW	11	$280,000
SB01049	SIGN BRIDGE	Replace Sign Bridge	NW	13	$140,000
SB01105	SIGN BRIDGE	Replace Sign Bridge	OL	20	$120,000
SB01114	SIGN BRIDGE	Replace Sign Bridge	NW	18	$175,000
SB01373	SIGN BRIDGE	Replace Sign Bridge	NW	7	$70,000
SB01607	SIGN BRIDGE	Replace Sign Bridge	NW	6	$160,000
SB01696	SIGN BRIDGE	Replace Sign Bridge	NW	15	$100,000
SB01797	SIGN BRIDGE	Replace Sign Bridge.	NW	4	$110,000
SB01949	SIGN BRIDGE	Replace Sign Bridge	NW	19	$170,000
21	Misc Structures		Sum of $'s =		$3,506,000

Bridge Preservation Program (P2)

Misc Structures Form

Structure Number: 0001442B	Structure Name:	State Route:	Milepost:	Region:
4/209	HALF BR W OF BUNKER HILL	4	49.80	Southwest

Year Built / YR Widened:	Stucture Type:	Struct Length:	Structure Width (c-c):	Sufficiency Rating:
1930 / 1950	SRB CS	33.0 ft	17.0 ft	41.78 FO

Average Daily Traffic:	Detour (miles)	Num of Lanes:
3,994	99	1

Sign Struct Type:

Sign Struct Design:

Date Inspected:	10/3/2006	Structr Adequacy:	4
Superstr Code:	6	Safe Load:	5
Substr Code:	6	Scour:	N

Project Number:		2007-09 Priority#:	
Repair Year:	2013	2009-11 Priority#:	8
CPMS Ad Date:		Bridge $'s:	$350,000
		Repair Total$'s:	$700,000

Repair Description:

Replace Steel Span and upgrade bridge rail

COMMENTS

This short steel span was added to this half bridge in 1950. The timber deck is deteriorating and needs to be replaced. Options will be explored, the assumption is a concrete slab will replace this steel span.
Bridge Item Estimate:
Repl Steel Span with concrete slab - $400 x 33 x 17 = $224,400....say $250,000. Upgrade bridge rail - $300 x 290lf = $87,000...say $90,000. Bridge Item Total = $340,000....use $350,000
Project Total = Bridge Item x 2 = $680,000....use $700,000

Bridge Preservation Program (P2)

Misc Structures Form

Structure Number: 0001444A	Structure Name:	State Route:	Milepost:	Region:
14/103	HALF BRIDGE	14	24.92	Southwest

Year Built / YR Widened:	Stucture Type:	Struct Length:	Structure Width (c-c):	Sufficiency Rating:
1930	CTB	75.0 ft	28.0 ft	47.17SD

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

Sign Struct Type:

Sign Struct Design:

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

Project Number:		2007-09 Priority#:	
Repair Year:	2009	2009-11 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 Structures Form

Structure Number: 0001735A	Structure Name:	State Route:	Milepost:	Region:
14/215	TUNNEL	14	76.77	Southwest

Year Built / YR Widened:	Stucture Type:	Struct Length:	Structure Width (c-c):	Sufficiency Rating:
1933	UTun	389.0 ft	26.0 ft	

Average Daily Traffic:	Detour (miles)	Num of Lanes:
3,400	35	2

Sign Struct Type:

Sign Struct Design:

Date Inspected:	11/20/2006	Structr Adequacy:	
Superstr Code:	9	Safe Load:	5
Substr Code:	9	Scour:	N

Project Number:		2007-09 Priority#:	
Repair Year:	2011	2009-11 Priority#:	9
CPMS Ad Date:		Bridge $'s:	$600,000
		Repair Total$'s:	$1,000,000

Repair Description:

Add a shotcrete liner

COMMENTS

Add a shotcrete liner

Bridge Preservation Program (P2)

Misc Structures Form

Structure Number: 00200373	Structure Name:	State Route:	Milepost:	Region:
21/332.75	CURLEW CREEK	21	172.85	Eastern

Year Built / YR Widened:	Stucture Type:	Struct Length:	Structure Width (c-c):	Sufficiency Rating:
1950	SCulv CCulv	17.0 ft	22.0 ft	65.22

Average Daily Traffic:	Detour (miles)	Num of Lanes:
580	93	2

Sign Struct Type:

Sign Struct Design:

Date Inspected:		Structr Adequacy:	3
Superstr Code:	9	Safe Load:	5
Substr Code:	9	Scour:	2

Project Number:	602117C	2007-09 Priority#:	2
Repair Year:	2009	2009-11 Priority#:	1
CPMS Ad Date:	5/18/2009	Bridge $'s:	$150,000
		Repair Total$'s:	$600,000

Repair Description:

Replace the 4 existing Culverts with a new three-sided box.

COMMENTS

Replace the 4 existing culverts and install a new three-sided box culvert. The channel will be realigned to prevent bank erosion and scour potential. Reconstruct lanes and shoulders of SR 21. Build a detour around the construction area.

Bridge Preservation Program (P2)

Misc Structures Form

Structure Number: 00200279	Structure Name:	State Route:	Milepost:	Region:
142/012.25	CREEK CULV	142	23.58	Southwest

Year Built / YR Widened:	Stucture Type:	Struct Length:	Structure Width (c-c):	Sufficiency Rating:
1955	MCulv	8.0 ft	20.0 ft	68.26

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

Sign Struct Type:

Sign Struct Design:

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

Project Number:		2007-09 Priority#:	
Repair Year:	2011	2009-11 Priority#:	2
CPMS Ad Date:		Bridge $'s:	$150,000
		Repair Total$'s:	$300,000

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.

Bridge Preservation Program (P2)

Misc Structures Form

Structure Number: 00200362	Structure Name:	State Route:	Milepost:	Region:
395/617.25	MARTIN CR AREA CULV	395	262.45	Eastern

Year Built / YR Widened:	Stucture Type:	Struct Length:	Structure Width (c-c):	Sufficiency Rating:
1960	TCulv	6.0 ft	0.0 ft	

Average Daily Traffic:	Detour (miles)	Num of Lanes:
690	9	2

Sign Struct Type:

Sign Struct Design:

Date Inspected:		Structr Adequacy:	
Superstr Code:	9	Safe Load:	5
Substr Code:	9	Scour:	N

Project Number:	639526C	2007-09 Priority#:	3
Repair Year:	2008	2009-11 Priority#:	1
CPMS Ad Date:	6/9/2008	Bridge $'s:	$60,000
		Repair Total$'s:	$60,000

Repair Description:

Remove Timber Animal Crossing

COMMENTS

The existing Timber Animal crossing has numerous red-tagged rotten timber elements. The ends of the culvert is also failing allowing portions of the edge of roadway to slough. The estimated total cost estimate to do this work by contract is $350,000. Eastern Region Maintenance plans to use their crews to remove this Timber Animal Crossing in the summer of 2008.

This structure has been given a priority of "1" in-case it is not removed in 2008 and must be done by contract in 2009.

Bridge Preservation Program (P2)

Misc Structures Form

Structure Number: 000000CR	Structure Name:	State Route:	Milepost:	Region:
508/26	CREEK	508	24.36	Southwest

Year Built / YR Widened:	Stucture Type:	Struct Length:	Structure Width (c-c):	Sufficiency Rating:
1941	TTC	20.0 ft	20.3 ft	45.32

Average Daily Traffic:	Detour (miles)	Num of Lanes:
697	0	2

Sign Struct Type:

Sign Struct Design:

Date Inspected:		Structr Adequacy:	4
Superstr Code:	4	Safe Load:	5
Substr Code:	6	Scour:	3

Project Number:		2007-09 Priority#:	
Repair Year:	2013	2009-11 Priority#:	11
CPMS Ad Date:		Bridge $'s:	$250,000
		Repair Total$'s:	$500,000

Repair Description:

Replace Timber Bridge

COMMENTS

The replacement of this structure should be done with bridges 508/23 and 508/25.

The bridge has a history of stream aggradation. Plans of the bridge are unavailable. Superstructure coded as a "4" due to the RT Girder, Girder 1A.

Bridge Preservation Program (P2)

Misc Structures Form

Structure Number: 0002093A	Structure Name:	State Route:	Milepost:	Region:
97/359ALT	KNAPPS HILL TUNNEL	97	224.70	North Central

Year Built / YR Widened:	Stucture Type:	Struct Length:	Structure Width (c-c):	Sufficiency Rating:
1936 / 1968	CLTun TLTun	790.0 ft	25.3 ft	

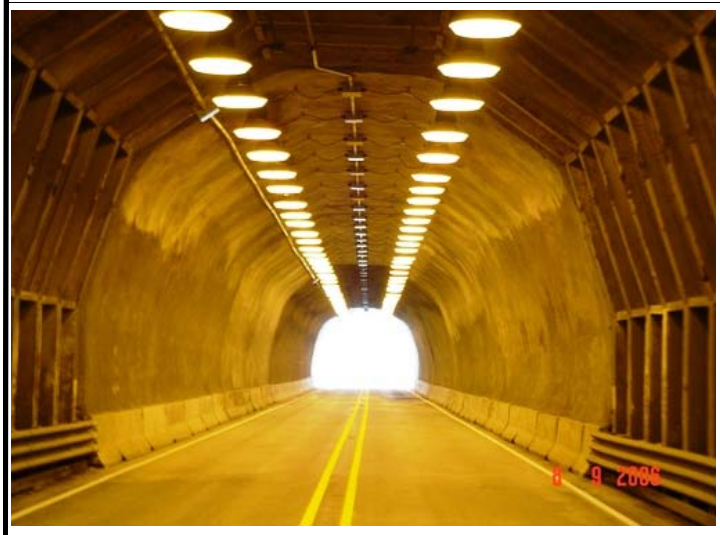
Average Daily Traffic:	Detour (miles)	Num of Lanes:
3,427	18	2

Sign Struct Type:

Sign Struct Design:

Date Inspected:	8/14/2007	Structr Adequacy:	
Superstr Code:	9	Safe Load:	5
Substr Code:	9	Scour:	N

Project Number:		2007-09 Priority#:	
Repair Year:	2011	2009-11 Priority#:	10
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 2001as part of contract 5986. The north portal and a 150ft interior section with timber elements was rehabilitated andlined 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 to be funded in the 2011-13 biennium.

Bridge Preservation Program (P2)

Misc Structures Form

Structure Number: SB00007	Structure Name:	State Route:	Milepost:	Region:
SB00007	CANTILEVER SIGN STRUCT	2	70.67	North Central

Year Built / YR Widened:	Stucture Type:	Struct Length:	Structure Width (c-c):	Sufficiency Rating:
	Cantilever	14.0 ft	ft	

Average Daily Traffic:	Detour (miles)	Num of Lanes:
		1

Sign Struct Type:

Sign Struct Design: Cantilever Sign Struct

Date Inspected:	8/6/2002	Structr Adequacy:	
Superstr Code:	6	Safe Load:	
Substr Code:	6	Scour:	

Project Number:		2007-09 Priority#:	10
Repair Year:		2009-11 Priority#:	15
CPMS Ad Date:		Bridge $'s:	$50,000
		Repair Total$'s:	$200,000

No Photo Available

Repair Description:

Replace Cantilever Sign Support

COMMENTS

A variety of indications were found among several anchor bolts in 2002. Location of indications changed after torquing. Program for replacement, and monitor indications. 6" diameter chords have surface cracks and rust in galvanizing. End chord connections have up to 1/16" gaps and surface rust throughout plates. End chord connection nuts not accessible thus tightness not verified. Four 1 3/4"" x 66"" anchor bolts. UT indication @ 12.75 (10% : 80% screen height) at the NW bolt and an indication @ 16.75 (10%) at the SE bolt. Location of indications changed after torquing. No hardened washers. Minimal nut engagement. Standoff is 1".

Bridge Preservation Program (P2)

Misc Structures Form

Structure Number: SB00389	Structure Name:	State Route:	Milepost:	Region:
SB00389	SIGN BRIDGE	5	169.99	Northwest

Year Built / YR Widened:	Stucture Type:	Struct Length:	Structure Width (c-c):	Sufficiency Rating:
1963	Sign Bridge	86.5 ft	ft	

Average Daily Traffic:	Detour (miles)	Num of Lanes:
		5

Sign Struct Type:

Sign Struct Design: Sign Bridge

Date Inspected:	11/23/2003	Structr Adequacy:	
Superstr Code:	6	Safe Load:	
Substr Code:	4	Scour:	

Project Number:	100521P	2007-09 Priority#:	14
Repair Year:	2009	2009-11 Priority#:	5
CPMS Ad Date:	5/4/2009	Bridge $'s:	$51,000
		Repair Total$'s:	$250,000

No Photo Available

Repair Description:

Replace Sign Bridge with a new Cantilever Sign Structure.

COMMENTS

Replacement of this structure is included in the "Downtown Seattle Sign Structures" project.
Superstructure is a galvanized, 86' 6" span, 20 panel double truss, 3' 4" square. Chords are tapered from 4" to 7", diagonals are 2 1/2", tower diagonals are 3-1/2". Diagonals are notched for chord gussets. Three MSC, with 1 1/4" x 4-1/2" bolts, no markings, 2" head. There is an open hole in weld 1/4" x 4 1/8" where weld was terminated on L3S-U4S. Torqued in 2003 to 1/4 turn past snug tight, 2-3/8" insert.

Bridge Preservation Program (P2)

Misc Structures Form

Structure Number: SB00606	Structure Name:	State Route:	Milepost:	Region:
SB00606	CANTILEVER SIGN STRUCT	305	0.20	Olympic

Year Built / YR Widened:	Stucture Type:	Struct Length:	Structure Width (c-c):	Sufficiency Rating:
1982	Cantilever	17.0 ft	ft	

Average Daily Traffic:	Detour (miles)	Num of Lanes:
		1

Sign Struct Type:

Sign Struct Design: Cantilever Sign Struct

Date Inspected:	5/17/2000	Structr Adequacy:	
Superstr Code:	5	Safe Load:	
Substr Code:	4	Scour:	

Project Number:		2007-09 Priority#:	7
Repair Year:		2009-11 Priority#:	13
CPMS Ad Date:		Bridge $'s:	$20,000
		Repair Total$'s:	$100,000

No Photo Available

Repair Description:

Replace Cantilever Sign Structure

COMMENTS

Single beam 6 1/2" in diameter. Galvanizing is flaking off showing areas of surface rust. There are 3 vertical windbeams and 3 horizontal windbeams. Four vertical angles support the sign and two of them attach the sign to the mast arm with 3" wide clamps. The 9/16" x 3" bolts for the clamps are rusted. WBC hardware is stainless with nylock nuts. The post has been repaired with a galvanized steel sleeve that is made up of two halves with 3" long welds approximately every foot. The sleeve itself has been damaged in several locations up the post. There is a gap 5/8 " in the ECC plates. Spacers placed in between plates. ECC has four bolts 1 1/8"" x 4 3/4"". No UT indications. ECC plates are 10"" x 15"" x 1 1/4. There is hairline cracks in the welds on the north side of post. Finial cap is tilted but in place.

Bridge Preservation Program (P2)

Misc Structures Form

Structure Number: SB00690	Structure Name:	State Route:	Milepost:	Region:
SB00690	SIGN BRIDGE	5	180.30	Northwest

Year Built / YR Widened:	Stucture Type:	Struct Length:	Structure Width (c-c):	Sufficiency Rating:
1964	Sign Bridge	105.0 ft	ft	

Average Daily Traffic:	Detour (miles)	Num of Lanes:
		5

Sign Struct Type:

Sign Struct Design: Sign Bridge

Date Inspected:	10/16/2004	Structr Adequacy:	
Superstr Code:	4	Safe Load:	
Substr Code:	4	Scour:	

Project Number:		2007-09 Priority#:	13
Repair Year:		2009-11 Priority#:	17
CPMS Ad Date:		Bridge $'s:	$210,000
		Repair Total$'s:	$740,000

No Photo Available

Repair Description:

Replace Sign Bridge

COMMENTS

Program Replacement due to broken down galvanizing, rust holes in members, rusty anchor bolts.
17 panel, 105' span, galvanized double truss, 6'h x 6'w. 5-1/2" chords, 2-1/2"" diagonals, 3-1/2" post diagonals. A325 MSC bolts are 3/4" x 3-3/4" with 1-1/4" head. Three MSC. Rust located near the lower north chord of the following members: U13N-L14N @ L14N, U11N-L12N @ L12N, U7N-L8N @ L8N.Four 1" x 33.18" anchor bolts per base. Standoff at east tower is 1-1/4". Standoff at west tower is 1-1/2". Threads are dinged up and filled with grout. Slight areas of rust on bolts below the baseplates. Cleaned and applied rust inhibitor. East tower is on 3' x 9' concrete foundation that is flush with the ground. West tower is on concrete pedestal that is 3' x 9' x 42" high. No UT indications.

Bridge Preservation Program (P2)

Misc Structures Form

Structure Number: SB00807	Structure Name:	State Route:	Milepost:	Region:
SB00807	CANTILEVER SIGN STRUCT	90	9.57	Northwest

Year Built / YR Widened:	Stucture Type:	Struct Length:	Structure Width (c-c):	Sufficiency Rating:
	Cantilever	18.7 ft	ft	

Average Daily Traffic:	Detour (miles)	Num of Lanes:
		1

Sign Struct Type:

Sign Struct Design: Cantilever Sign Struct

Date Inspected:	8/23/2000	Structr Adequacy:	
Superstr Code:	6	Safe Load:	
Substr Code:	6	Scour:	

Project Number:		2007-09 Priority#:	16
Repair Year:		2009-11 Priority#:	18
CPMS Ad Date:		Bridge $'s:	$50,000
		Repair Total$'s:	$200,000

No Photo Available

No Photo Available

No Photo Available

Repair Description:

Replace Cantilever Sign Support

COMMENTS

Mounted on top of bridge 90/43WCD on the left shoulder of exit to Bellevue Way. Sign reads "Bellevue Way/ Exit Only".
No inspection notes in database.

Bridge Preservation Program (P2)

Misc Structures Form

Structure Number: SB00840	Structure Name:	State Route:	Milepost:	Region:
SB00840	SIGN BRIDGE	526	1.63	Northwest

Year Built / YR Widened:	Stucture Type:	Struct Length:	Structure Width (c-c):	Sufficiency Rating:
1968	Sign Bridge	140.0 ft	ft	

Average Daily Traffic:	Detour (miles)	Num of Lanes:
		8

Sign Struct Type:

Sign Struct Design: Sign Bridge

Date Inspected:	7/8/2000	Structr Adequacy:	
Superstr Code:	4	Safe Load:	
Substr Code:	6	Scour:	

Project Number:		2007-09 Priority#:	6
Repair Year:		2009-11 Priority#:	12
CPMS Ad Date:		Bridge $'s:	$280,000
		Repair Total$'s:	$850,000

No Photo Available

Repair Description:

Replace Sign Bridge

COMMENTS

7' x 7'x 7' truss made up of 6 5/8"" dia top/bottom chords; 2 7/8" dia vertical/lateral diagonals. Member L19W connection has torn at weld (5 7/8" of the18 3/8" long welded plate; crack is not all the way through-see photo). 7/8" dia x 4 1/2" long splice bolts all tight. Several rust holes in members L5W-U6W; U6W-L7W; L7W-U8W. Rust holes in lower west chord between L4w and L7W.

10 1/2" dia posts on 22" x 22' x 1 1/2" thick baseplates. Post to baseplate welds look good. The posts at both towers are in fair shape. Baseplate holes at north tower have been torch cut due to the misalignment of the pre-drilled holes and the anchor bolts. Finial caps welded to posts with South tower missing top plug in SE & SW posts. 7/8" dia x 2 1/2" long ECC bolts all tight.

Bridge Preservation Program (P2)

Misc Structures Form

Structure Number: SB01049	Structure Name:	State Route:	Milepost:	Region:
SB01049	SIGN BRIDGE	5	253.02	Northwest

Year Built / YR Widened:	Stucture Type:	Struct Length:	Structure Width (c-c):	Sufficiency Rating:
1969	Sign Bridge	69.0 ft	ft	

Average Daily Traffic:	Detour (miles)	Num of Lanes:
		3

Sign Struct Type:

Sign Struct Design: Sign Bridge

Date Inspected:	5/18/2001	Structr Adequacy:	
Superstr Code:	6	Safe Load:	
Substr Code:	6	Scour:	

Project Number:		2007-09 Priority#:	9
Repair Year:		2009-11 Priority#:	14
CPMS Ad Date:		Bridge $'s:	$140,000
		Repair Total$'s:	$500,000

No Photo Available

Repair Description:

Replace Sign Bridge

COMMENTS

13 panel 5' x 5' x 5'-1 1/2"" DT made up of 5"" dia top/bottom chords; 3"" horizontal and 2 1/2"" vertical diagonals; 2 "" dia strut @ Jt. 6. The aluminum surfacing is in good condition. Secondary member welds to chords look good except for what is noted below. Member U3N-L4N @ L4N has approximately 80% of weld broken from tear in pipe. NO CHANGE NOTED 5/18/01

Member L12N-U13N has drilled holes through from an old electric box that has since been removed. Four 1" diam x 33.5" long anchor bolts. The bolts at the east tower are rusty with some loss of threads below the leveling nuts. They were cleaned and coated with rust inhibitor today. There is insufficient nut engagement on the bolts at the NE base. The west tower anchor bolts

Bridge Preservation Program (P2)

Misc Structures Form

Structure Number: SB01105	Structure Name:	State Route:	Milepost:	Region:
SB01105	SIGN BRIDGE	5	135.48	Olympic

Year Built / YR Widened:	Stucture Type:	Struct Length:	Structure Width (c-c):	Sufficiency Rating:
1969	Sign Bridge	60.0 ft	ft	

Average Daily Traffic:	Detour (miles)	Num of Lanes:
		4

Sign Struct Type:

Sign Struct Design: Sign Bridge

Date Inspected:	2/14/1998	Structr Adequacy:	
Superstr Code:	6	Safe Load:	
Substr Code:	6	Scour:	

Project Number:		2007-09 Priority#:	8
Repair Year:		2009-11 Priority#:	21
CPMS Ad Date:		Bridge $'s:	$120,000
		Repair Total$'s:	$420,000

No Photo Available

Repair Description:

Replace Sign Bridge

COMMENTS

This Sign Bridge is located over the south bound lanes of Interstate 5 on the Puyallup River bridge (5/456W). This sign bridge will be replaced when the bridge is replaced in the next 4-6 years.

Bridge Preservation Program (P2)

Misc Structures Form

Structure Number: SB01114	Structure Name:	State Route:	Milepost:	Region:
SB01114	SIGN BRIDGE	518	1.28	Northwest

Year Built / YR Widened:	Stucture Type:	Struct Length:	Structure Width (c-c):	Sufficiency Rating:
1969	Sign Bridge	87.0 ft	ft	

Average Daily Traffic:	Detour (miles)	Num of Lanes:
		3

Sign Struct Type:

Sign Struct Design: Sign Bridge

Date Inspected:	12/5/2006	Structr Adequacy:	
Superstr Code:	6	Safe Load:	
Substr Code:	4	Scour:	

Project Number:		2007-09 Priority#:	18
Repair Year:		2009-11 Priority#:	19
CPMS Ad Date:		Bridge $'s:	$175,000
		Repair Total$'s:	$620,000

Repair Description:

Replace Sign Bridge

COMMENTS

There are four 1" x 33" anchor bolts per tower post. The southeast and southwest anchor bolts of the northeast tower post have strong indications at 5.62"" from top. The bolts have been bent and almost sheared from a traffic impact to the side of the post. The grout pads under north tower posts are all but gone. Posts are 10", webs are 3". Top web of south tower has rust holes, section loss minor to moderate. Finial cap at southeast post is rusting through. 18 panel 5' x 5' truss. Chords are 4-1/2", diagonals are 2-1/2""Small gaps (1/32"") exist in the inspan connections; U12E, U6E, and L6W. Some spots of surface rust on bottom horizontal diagonals on north end.

Bridge Preservation Program (P2)

Misc Structures Form

Structure Number: SB01373	Structure Name:	State Route:	Milepost:	Region:
SB01373	SIGN BRIDGE	5	170.25	Northwest

Year Built / YR Widened:	Stucture Type:	Struct Length:	Structure Width (c-c):	Sufficiency Rating:
1963	Sign Bridge	75.6 ft	ft	

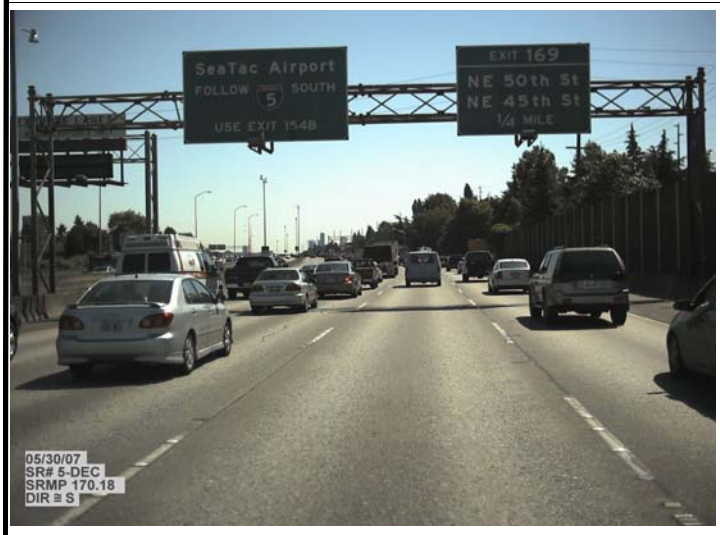
Average Daily Traffic:	Detour (miles)	Num of Lanes:
		4

Sign Struct Type:

Sign Struct Design: Sign Bridge

Date Inspected:	10/11/2003	Structr Adequacy:	
Superstr Code:	3	Safe Load:	
Substr Code:	5	Scour:	

Project Number:	100521P	2007-09 Priority#:	
Repair Year:	2009	2009-11 Priority#:	7
CPMS Ad Date:	5/4/2009	Bridge $'s:	$70,000
		Repair Total$'s:	$231,000



No Photo Available

Repair Description:

Replace Sign Bridge

COMMENTS

Replacement of this structure is included in the "Downtown Seattle Sign Structures" project. Superstructure is a galvanized, 75' 6" span, 18 panel double truss, 3' 4" square. Chords are tapered from 4" to 7", diagonals are 2 1/2", tower diagonals are 3-1/2". Diagonals are notched for chord gussets. Three MSC, with 1 1/4" x 4-3/4" bolts, no markings, 1-7/8" & 2" head. There is a 4" x 6" laminar rust spot on member U8-U9. The MSC bolts have very rusty nuts, and two of the bolt heads have fractures. Grout pad has been removed.

Bridge Preservation Program (P2)

Misc Structures Form

Structure Number: SB01607	Structure Name:	State Route:	Milepost:	Region:
SB01607	SIGN BRIDGE	5	165.30	Northwest

Year Built / YR Widened:	Stucture Type:	Struct Length:	Structure Width (c-c):	Sufficiency Rating:
1965	Sign Bridge	42.0 ft	ft	

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

Sign Struct Type:

Sign Struct Design: Sign Bridge

Date Inspected:	10/4/2003	Structr Adequacy:	
Superstr Code:	5	Safe Load:	
Substr Code:	5	Scour:	

Project Number:	100521P	2007-09 Priority#:	15
Repair Year:	2009	2009-11 Priority#:	6
CPMS Ad Date:	5/14/2009	Bridge $'s:	$160,000
		Repair Total$'s:	$620,000

No Photo Available

Repair Description:

Replace Sign Bridge

COMMENTS

Replacement of this structure is included in the "Downtown Seattle Sign Structures" project.
Non-standard superstructure, ECC, and foundation. Many avenues for water entry into aluminum members. 4 & 3 panel, aluminum double truss, 4'h x 4'w. 3 1/2" chords, 3" diagonals. Superstructure is continuous for a 27' span and an 18' 6" cantilever. Members U2S-U3N, U3S-U3N, and U3N-U4S are split and flattened on the ends, bolted in place with aluminum hardware."Four 1-1/2" x 61" anchor bolts, right base. Four 1-1/2" x 8-1/8" anchor bolts, right base (double nutted). Bolts are in good condition. Washers are in place. Good nut engagement. No standoff. No UT indications. Right concrete foundation is 94" x 36" with no notable defects. Left steel plate foundation is 86" x 24".

Bridge Preservation Program (P2)

Misc Structures Form

Structure Number: SB01696	Structure Name:	State Route:	Milepost:	Region:
SB01696	SIGN BRIDGE	2	0.24	Northwest

Year Built / YR Widened:	Stucture Type:	Struct Length:	Structure Width (c-c):	Sufficiency Rating:
1967	Sign Bridge	49.0 ft	ft	

Average Daily Traffic:	Detour (miles)	Num of Lanes:
		3

Sign Struct Type:

Sign Struct Design: Sign Bridge

Date Inspected:	5/8/2004	Structr Adequacy:	
Superstr Code:	6	Safe Load:	
Substr Code:	5	Scour:	

Project Number:		2007-09 Priority#:	11
Repair Year:		2009-11 Priority#:	16
CPMS Ad Date:		Bridge $'s:	$100,000
		Repair Total$'s:	$350,000

Repair Description:

Replace Sign Bridge

COMMENTS

ECC bolts(7/8"" dia x 2 1/2"") are all tight. NORTH TOWER: Both posts in north tower are corroded (rotten from inside). East post on North tower is the worst of the two. There are numerous rust holes and stains, mainly near base plates. There is a dead sound rather than a ring when sounded with a hammer. North tower web B-C has rust hole. Both finial caps have rust holes on north tower. SOUTH TOWER: rust hole at base of east post. Top chord between posts near west post. Four anchor bolts, 33"long x 1" dia ut'd today with no defects noted. Bolts were hand tightened snug + 1/3 turn. Undersized washers and nuts are used with anchor bolts (1 1/2"" nut rather than 1 5/8""). Maintenance replaced the anchor bolt nuts and washers with 1" A325 galv nuts and washers and retightened to 1/3 turn past snug on 1/11/01.

Bridge Preservation Program (P2)

Misc Structures Form

Structure Number: SB01797	Structure Name:	State Route:	Milepost:	Region:
SB01797	SIGN BRIDGE	5	166.17	Northwest

Year Built / YR Widened:	Stucture Type:	Struct Length:	Structure Width (c-c):	Sufficiency Rating:
1965	Sign Bridge	70.0 ft	ft	

Average Daily Traffic:	Detour (miles)	Num of Lanes:
		5

Sign Struct Type:

Sign Struct Design: Sign Bridge

Date Inspected:	5/3/2003	Structr Adequacy:	
Superstr Code:	4	Safe Load:	
Substr Code:	6	Scour:	

Project Number:	100521P	2007-09 Priority#:	20
Repair Year:	2009	2009-11 Priority#:	4
CPMS Ad Date:	5/4/2009	Bridge $'s:	$110,000
		Repair Total$'s:	$410,000

No Photo Available

Repair Description:

Replace Sign Bridge.

COMMENTS

Replacement of this structure is included in the "Downtown Seattle Sign Structures" project. 10 panel, 69' 6"" span, aluminum double truss, 5.33'h x 5.33'w. 4 1/2"" chords, 2 1/2"" diagonals. Vertical member U5N-L5N is completely broken away at U5N, and the pipe is full of water. 4 bolts per post, left base. Right base/foundation is on the retaining wall, similar to 5/165.18NCD, SB01818. Four 1 1/2" x 34.5" anchor bolts per base at west tower. Bolts are in good condition. Washers are in place. Good nut engagement. Standoff is 1/4". Bolts were tightened past snug tight with hand wrench. No UT indications. East base has no foundation (ECC bolts to retaining wall).

Bridge Preservation Program (P2)

Misc Structures Form

Structure Number: SB01949	Structure Name:	State Route:	Milepost:	Region:
SB01949	SIGN BRIDGE	18	0.40	Northwest

Year Built / YR Widened:	Stucture Type:	Struct Length:	Structure Width (c-c):	Sufficiency Rating:
NA	Sign Bridge	85.0 ft	ft	

Average Daily Traffic:	Detour (miles)	Num of Lanes:
		3

Sign Struct Type:

Sign Struct Design: Sign Bridge

Date Inspected:	4/17/2004	Structr Adequacy:	
Superstr Code:	6	Safe Load:	
Substr Code:	6	Scour:	

Project Number:		2007-09 Priority#:	1
Repair Year:		2009-11 Priority#:	20
CPMS Ad Date:		Bridge $'s:	$170,000
		Repair Total$'s:	$600,000

Repair Description:

Replace Sign Bridge

COMMENTS

The "Year Built" is unknown. South tower has been replaced by Region Maintenance.
Four 1" x 33" anchor bolts per base. Bolts are in good condition. Washers are in place. Good nut engagement. Standoff is less than 1"". No UT indications. Concrete foundations are 3' x 8' with no notable defects. Baseplates are 22" x 22" x 1-1/2" thick. Welds to posts look good. Posts are 11" in diameter. Finial caps welded on north tower, bolted on south tower, no provisions for top plug. A325 ECC bolts are 7/8" x 2-1/2" with 1-7/16" head. Maintenance replaced all ECC bolts and torqued them to 370 ft/lbs on 2/14/01. 17 panel, 85' span, galvanized double truss, 5'h x 5'w. 4-1/2"" chords, 2-1/2" diagonals, 3" tower diagonals. A325 MSC bolts are 5/8" x 3" with 1-1/16" head. Two MSC.