

Misc Structures - Southwest Region - 2009-11 Biennium

(Sorted by 2009-11#)

Structure Number:	Structure Name:	Repair Description:	Region:	2009-11 Priority#:	Bridge\$'s:
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
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
508/26	CREEK	Replace Timber Bridge	SW	11	\$250,000
5 Misc Structures				Sum of \$'s =	\$1,400,000

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Bridge Preservation Program (P2)

Misc Structures Form

Structure Number: 0001442B 4 / 209		Structure Name: HALF BR W OF BUNKER HILL		State Route: 4	Milepost: 49.80	Region: Southwest
Year Built / YR Widened: 1930 / 1950		Structure Type: SRB CS		Struct Length: 33.0 ft	Structure Width (c-c): 17.0 ft	Sufficiency Rating: 41.78 FO
Average Daily Traffic: 3,994		Detour (miles) 99	Num of Lanes: 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						
<p>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.</p> <p>Bridge Item Estimate: Repl Steel Span with concrete slab - $400 \times 33 \times 17 = \\$224,400$....say \$250,000. Upgrade bridge rail - $300 \times 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</p>						

Bridge Preservation Program (P2)

Misc Structures Form

Structure Number: 14/103	Structure Name: HALF BRIDGE	State Route: 14	Milepost: 24.92	Region: Southwest	
Year Built / YR Widened: 1930	Structure Type: CTB	Struct Length: 75.0 ft	Structure Width (c-c): 28.0 ft	Sufficiency Rating: 47.17 SD	
Average Daily Traffic: 3,900	Detour (miles) 9	Num of Lanes: 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	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 14 / 215		Structure Name: TUNNEL		State Route: 14	Milepost: 76.77	Region: Southwest
Year Built / YR Widened: 1933		Structure Type: UTun		Struct Length: 389.0 ft	Structure Width (c-c): 26.0 ft	Sufficiency Rating:
Average Daily Traffic: 3,400		Detour (miles): 35	Num of Lanes: 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: 00200279 142/012.25		Structure Name: CREEK CULV		State Route: 142	Milepost: 23.58	Region: Southwest
Year Built / YR Widened: 1955		Structure Type: MCulv		Struct Length: 8.0 ft	Structure Width (c-c): 20.0 ft	Sufficiency Rating: 68.26
Average Daily Traffic: 680		Detour (miles) 25	Num of Lanes: 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						
<p>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.</p>						

Bridge Preservation Program (P2)

Misc Structures Form

Structure Number: 000000CR 508 / 26		Structure Name: CREEK		State Route: 508	Milepost: 24.36	Region: Southwest	
Year Built / YR Widened: 1941		Structure Type: TTC		Struct Length: 20.0 ft	Structure Width (c-c): 20.3 ft	Sufficiency Rating: 45.32	
Average Daily Traffic: 697		Detour (miles): 0	Num of Lanes: 2				
Sign Struct Type:		Sign Struct Design:					
Date Inspected:	Superstr Code: 4	Substr Code: 6	Structr Adequacy: 4	Safe Load: 5			Scour: 3
Project Number:	Repair Year: 2013	CPMS Ad Date:	2007-09 Priority#: 2009-11 Priority#: 11	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.							