

COUNTY OF SAN MATEO

Bridge Preventative Maintenance Program (BPMP) PHASE II

COST DATA IN PROGRESS

Date: 03/16/12

Priority (Low Number is Top Priority)	Local Agency Bridge ID	Bridge Number (from Inspection Report)	Facility Carried	County Road No.	Feature Intersected	Location	Year Built	Width Between Curb (ft)	Length (ft)	Bridge Type	Sufficiency Rating	SD/FO Status	Caltrans Last Inspection Date	BPMP Eligible	BPMP Work Description	Deck Area (ft <sup>2</sup> )	Total Participation Cost (PE+CON+CE)	Unit Cost (\$/ft <sup>2</sup> )	Federal Share (88.53%)	Local Share (11.47%)	Work Description	As-Built File No.
Anticipated Phase II of the BPMP program (Bridges has not been approved by Caltrans DLAE)																						
1	8	35C-186	Entrada Way	696	La Honda Ck.	150' West of La Honda Rd	1973	24	56	Multi-plate Metal Arch Culvert			4/29/2008	Yes	Replace the embankment protection system on the west side of the upstream opening and extend the embankment protection system on the east side of the upstream opening. Replace embankment fill along the outside face of the retaining walls. Paint metal arch with protective coating.	1344	\$111,000		\$98,268	\$12,732	The concrete around the edges of the metal arch opening on the upstream side of the culvert should be repaired to prevent the corrosion of any underlying reinforcing steel/Caltrans inspection report indicate that the bank is scoured at the left side of abutment 2. Recommend that the scour be addressed and mitigated to prevent future maintenance problems.	1/3214
2	3	35C-56	Sand Hill Rd.	51	Bear Gulch Ck.	S of Whiskey Hill Rd.	1950	40	27	Multi-plate Metal Arch Culvert	96		6/3/2011	Yes	Clean and paint the metal arch plating with a protective coating where corrosion exists. The sill of the raised concrete footing should allow positive drainage to prevent further corrosion along the bottom of the metal arch. Scour mitigation measures should be implemented behind the wingwalls to prohibit the passage of runoff from the above roadway. The 8' CMP should also be extended away from this scour envelope. Cement slurry may be used to fill the undermined areas beneath the culvert footings. Scour mitigation measures may also be implemented to avoid further erosion beneath the footings.	1080	\$70,500		\$62,414	\$8,086	Caltrans inspection report state similar repairs as currently listed.	4/1425
3	5	35C-54	Pescadero Rd.	S35	Alpine Ck.	Pescadero Rd @ Alpine Rd	1968	40	30	Multi-plate Metal Arch Culvert	97		4/26/2006	Yes	The bottom of the metal arch culvert should be painted with a protective coating to prevent further corrosion. This may require removing the upper portion of the creek bed to expose the entire rusted area.	1200	\$45,000		\$39,839	\$5,162	Caltrans inspection report indicate rusting at the metal arch near abutment 1.	1/2722
4	7	35C-52	Pescadero Rd. at Cloverdale Rd.	S35	Pescadero Ck.	3 Mi E of Hwy 1	1957	34	131	Concrete Girder	96.9		4/26/2006	Yes	Cement slurry the underside of Abutment 1. Repair AC roadway at the bridge deck joint. Paint the corroded surface of the pile casing with a protective coating. Place a protective deck overlay to seal the cracks along the bridge deck.	4454	\$58,500		\$51,790	\$6,710	Caltrans inspection report indicate undermining at abutment 1, improve drainage behind abutment 1, and repair erosion.	1/1845
5	11	35C-64	Lobitos Creek Rd.	43	Lobitos Ck.	1.1 Mi N/W of Verde Rd	1991	24	87	Concrete Box Girder	99		6/2/2011	Yes	Implement erosion control measure to prevent surface roadway runoff from eroding the embankment(s). The diagonal cracks along the exterior girder at the outer radius of the superstructure near the abutment seats, likely caused by shear stress, may indicate a structural design deficiency. The as-built drawings should be analyzed to determine if such a deficiency exists. This investigation may be considered "other work" under the BPMP guidelines.	2088	\$61,500		\$54,446	\$7,054	Patch the exposed threaded anchor inserts and diagonal cracks found along the exterior girders of the superstructure. According to the Caltrans inspection report there is a large erosion gully in the embankment at the right side of abutment 1. Erosion is due to the runoff from above which travels down an AC gutter along the wingwall and then abruptly ends at the abutment face. Recommend filling the erosion gully and implement anti-erosion control measures at the right side of abutment 1.	1/889
6	12	35C-118	Butano-Cut off	S57	Pescadero Ck.	1.5 Mi E of Pescadero Rd.	1964	34	130	Concrete Girder	95.8		4/26/2006	No	No recommendations	4420	\$37,500		\$33,199	\$4,301	Caltrans inspection report indicate no repair. However, County may treat deck with methacrylate.	1/2370
7	15	35C187	Gazos Creek Rd.	60	Gazos Ck.	3.3 Mi E of Cloverdale Rd.	1982	18	29	Multi-plate Metal Arch Culvert			6/9/1982	Yes	The bottom of the metal arch culvert should be painted with a protective coating to prevent further corrosion.	522	\$45,000		\$39,839	\$5,162		
8	17	35C-119	Wurr Rd.	80	Pescadero Ck.	South of Pescadero Rd.	1962	34	133	Concrete Girder	92		4/26/2006	Yes	The joint seals of this bridge should be removed and replaced. The spalling and exposure noted above will serve to continue degrading the existing seals until the structure begins to suffer long-term damage.	4522	\$37,500		\$33,199	\$4,301	The concrete spalling at the approach slabs should be repaired under routine maintenance.	1/2159
9	18	35C-53	Pescadero Rd. (Anderson Bridge)	S35	Pescadero Ck.	3 Mi E of Butano Cut-off	1937	20	133	Concrete Box Girder	72.4	FO	4/26/2006	Yes	Place a protective overlay along the entire surface of the bridge deck to prevent further deterioration. Repair the concrete surfaces of the RC barrier and posts where deterioration is present.	2660	\$43,500		\$38,511	\$4,989	Caltrans inspection report indicate that the deck has heavy abrasions and pitting throughout. Recommend methacrylate treatment.	1/608
																TOTAL PARTICIPATING COST (PE+CON+CE)	\$510,000		\$451,503	\$58,497		
																COST BREAKDOWN: PRELIMINARY ENGINEERING COST (PE)	\$119,000		\$105,350.70	\$13,649.30		
																CONSTRUCTION COST (CON)	\$340,000		\$301,002	\$38,998		
																CONSTRUCTION ENGINEERING COST (CE)	\$51,000		\$45,150.30	\$5,849.70		