Kern County Bridge Preventive Maintenance Project

Notes: Total participating cost includes:

1. Mobilization of 20% to account for small and remote projects.
2. Contingency of 25% to account for higher risk in cost variance for maintenance projects.
3. Preliminary Engineering of 25%
4. Construction Engineering of 15%

Group	Priority (Lowest Number Is Top Priority)	Agency Location	Bridge number from Inspection Report	Facility Carried	Feature Intersected	Location	Sufficiency Rating	NBI Condition Rating	Work Description	Width (ft)	Length (ft)	Deck Area (ft2)	Total Participating Cost (See Notes)	Unit Cost ($/ft2)	Federal Share	Running Fed Summary	Local Share	Running Local Share
1B	5	Kern County	50C0160	KERN RIVER CYN ROD	CLEAR CREEK	AT MIRACLE HOT SPRINGS	81.10	Fair	1. Treat bridge deck with methacrylate. 2. Provide scour protection at Bent 4 in accordance with the guideline in the current version of HEC-23 "Bridge Scour and Stream Instability Countermeasures." - Recommend 1 Ton RSP between pier bents + 10 ft u/s and d/s 3. Also mitigate Abutment 6 embankment. - Recommend curtain wall or grouted rip rap at eastern abutment (RSP buttress between Bent 5 and abut)	30.51	97.11	2,963	$ 607,000	$ 204.86	$ 485,600	$ 485,600	$ 121,400	$ 121,400
1B	10	Kern County	50C0282	LAKEWOOD PLACE	CUDDY CREEK	0.02 MI N LAKEWOOD DR	95.90	Good	1. The bridge owner should investigate and provide adequate scour mitigation at this structure's foundations in accordance with FHWA's Hydraulic Engineering Circular No. 23 (HEC-23). - Northern abutment shows the downstream 12-20 ft of top of footing is exposed with roughly Class IV RSP extending from the exposed area to upstream side of bridge - Recommend armoring upstream end of norther abutment with Class VI or larger - wrap around and key into slope (roughly 6'x20' total area tied into exisitng RSP at culvert outfall) - Also recommend armoring downstream end of abutment and channel bank on north side of bridge with Class VI or larger extending 20 ft downstream (roughly 32 to 40 x6' area) - Southern abutment shows the upstream 6-10 ft of top of footing is exposed with roughly Class IV RSP extending from the exposed are to downstream side of bridge - Recommend armoring upstream end of southern abutment with Class VI or larger - wrap around and key into slope (roughly 12'x20' total area) - Also recommned armoring channel bank on south side downstream of bridge with Class VI or larger for 20 ft (roughly 20x6' area) - Upstream scarp on south side appears to be worsening: suggest possible LPSTP to correct channel migration and focus flow more perpendicular through bridge.	47.57	45.60	2,169	$ 204,000	$ 94.03	$ 163,200	$ 648,800	$ 40,800	$ 162,200
1B	27	Kern County	50C0209	CALIENTE CREEK RD	INDIAN CREEK	WEST OF INDIAN CREEK RD	97.00	Fair	1. Provide erosion countermeasures in the embankment at the end of the Abutment 1 left wingwall. - Recommend class IV or Class V RSP to fill erosion and protect from future erosion/scour (approximately 4x10 area).	42.32	26.90	1,139	$ 74,000	$ 64.99	$ 59,200	$ 708,000	$ 14,800	$ 177,000
									TOTALS				**$ 885,000**			**$ 708,000**		**$ 177,000**
													75% CONST= $ 663,750					
													25% PE= $ 221,250					