

County of Santa Cruz

Bridge Preventative Maintenance Plan

Federal Fiscal Year 2015/2016 Bridge Preventative Maintenance Program

August 17, 2015

Priority (Lowest Number Is Top Priority)	County Location	Implementing Agency	Bridge number from Inspection Report	Local Agency Bridge ID	Facility Carried	Feature Intersected	Location	Sufficiency Rating	SD/FO Status	Work Description	Deck Area (ft ²)	Total Participating Cost	Unit Cost (\$/ft ²)	Federal Share	Running Fed Summary	Local Share	Running Local Share	FFY Funds Requested
1	Santa Cruz	County of Santa Cruz DPW								Develop Next Years' BPMP		\$25,000		22,132.50	\$22,133	\$2,868	\$2,868	11/12
2	Santa Cruz	County of Santa Cruz DPW								Develop Next Years' BPMP		\$25,000		22,132.50	\$44,265	\$2,868	\$5,735	13/14

Project No. 1 - Polyester Concrete Overlay BPMP-5936(104)

3	Santa Cruz	County of Santa Cruz DPW	36C0092	36	Mt. Hermon Road	Zayante Creek BOH	0.7 mi. NE of Graham Hill Rd.	76.0	SD	Pave Deck with Polyester Concrete	19,110.00	\$325,000	\$17.01	\$287,723	\$331,988	\$37,278	\$43,013	
4	Santa Cruz	County of Santa Cruz DPW	36C0040	28	Glen Arbor Road	San Lorenzo River	Just E/O SR 9	74.2	SD	Pave Deck with Polyester Concrete	7,830.00	\$150,000	\$19.16	\$132,795	\$464,783	\$17,205	\$60,218	
Construction Subtotal												\$475,000	\$420,518	\$54,483				
Preliminary Engineering												\$60,000	\$53,118	\$6,882	\$67,100			
Construction Engineering												\$50,000	\$44,265	\$5,735	\$72,835			
Project Subtotal												\$585,000	\$517,901	\$67,100				

Project No. 2 - Methacrylate BPMP-5936(105)

5	Santa Cruz	County of Santa Cruz DPW	36C0116	81	Valencia Road	Valencia Creek	@ Bear Valley Road	67.5	SD	Methacrylate the Entire Deck Surface	4,930.00	\$26,000	\$5.27	\$23,018	\$585,183	\$2,982	\$75,817	
6	Santa Cruz	County of Santa Cruz DPW	36C0084	3	Bear Creek Road	San Lorenzo River	at State Route 9	66.8	FO	Methacrylate the Entire Deck Surface	4,520.00	\$24,906	\$5.51	\$22,049	\$607,233	\$2,857	\$78,673	
7	Santa Cruz	County of Santa Cruz DPW	36C0140	6	Bonny Doon Rd.	Lone Star Equipment Road UC	2.1 Mi. N Highway 2	90.3		Methacrylate the Entire Deck Surface	3,050.00	\$20,000	\$6.56	\$17,706	\$624,939	\$2,294	\$80,967	
8	Santa Cruz	County of Santa Cruz DPW	36C0141	35	Graham Hill Road	Bean Creek	Int. Graham Hill/E Zayante	60.3	FO	Methacrylate the Entire Deck Surface	3,329.00	\$19,000	\$5.71	\$16,821	\$641,759	\$2,179	\$83,147	
Construction Subtotal												\$89,906	\$79,594	\$10,312				
Preliminary Engineering												\$30,000	\$26,559	\$3,441	\$86,588			
Construction Engineering												\$20,000	\$17,706	\$2,294	\$88,882			
Project Subtotal												\$139,906	\$123,859	\$16,047				

Project No. 3 - Clean and Paint Timber Bridge Rails BPMP-5936(106)

9	Santa Cruz	County of Santa Cruz DPW	36C0037	89	E. Zayante Road	Zayante Creek	6.3 Mi N Graham Hill Road	72.2	FO	Clean and Paint Timber Bridge Rail (Total Rail L=92 ft)	1,432.00	\$13,000	\$9.08	\$11,509	\$697,533	\$1,491	\$90,373	
10	Santa Cruz	County of Santa Cruz DPW	36C0033	88	E. Zayante Road	Zayante Creek	5.5 Mi N Graham Hill Road	65.5	FO	Clean and Paint Timber Bridge Rail (Total Rail L=108 ft)	1,615.00	\$14,000	\$8.67	\$12,394	\$709,927	\$1,606	\$91,979	
11	Santa Cruz	County of Santa Cruz DPW	36C0126	82	Varni Road	Los Corralitos Creek	.3 Mi. W Amesti Road	71.5	FO	Clean and Paint Timber Bridge Rail (Total Rail L=130 ft)	1,812.00	\$16,000	\$8.83	\$14,165	\$724,092	\$1,835	\$93,814	
12	Santa Cruz	County of Santa Cruz DPW	36C0137	23	Eureka Canyon Road	Shingle Mill Gulch	2 Mi. N Rider Road	60.5	FO	Clean and Paint Timber Bridge Rail (Total Rail L=44 ft)	433.00	\$8,000	\$18.48	\$7,082	\$731,175	\$918	\$94,731	
13	Santa Cruz	County of Santa Cruz DPW	36C0025	22	Eureka Canyon Road	Corralitos Creek	10' N Rider Road	53.0		Clean and Paint Timber Bridge Rails (Total Rail L=76 ft)	1,136.00	\$12,000	\$10.56	\$10,624	\$741,798	\$1,376	\$96,108	
14	Santa Cruz	County of Santa Cruz DPW	36C0055	50	Lamond Street	San Lorenzo River	0.5 Mi. E Highway 9	71.8	FO	Clean and Paint Timber Bridge Rails (Total Rail L=210 ft)	3,270.00	\$25,000	\$7.65	\$22,133	\$763,931	\$2,868	\$98,975	
15	Santa Cruz	County of Santa Cruz DPW	36C0151	16	Cassery Road	Green Valley Creek	0.4 Mi. N Green Valley Road	80.7		Clean and Paint Timber Bridge Rails (Total Rail L=82 ft)	785.00	\$15,000	\$19.11	\$13,280	\$777,210	\$1,721	\$100,696	
16	Santa Cruz	County of Santa Cruz DPW	36C0152	17	Cassery Road	Green Valley Creek	0.3 Mi. E Robin Meadow Ln	63.9		Clean and Paint Timber Bridge Rails (Total Rail L=60 ft)	753.00	\$11,000	\$14.61	\$9,738	\$786,948	\$1,262	\$101,958	
17	Santa Cruz	County of Santa Cruz DPW	36C0133	30	Glen Arbor Road	Love Creek	0.1 Mi. E Hwy 9	79.4		Clean and Paint Timber Bridge Rails (Total Rail L=98 ft)	1,185.00	\$22,000	\$18.57	\$19,477	\$806,425	\$2,523	\$104,481	
18	Santa Cruz	County of Santa Cruz DPW	36C0038	55	Conference Drive	Zayante Creek	N. Graham Hill Rd.	48.5	SD	Clean and Paint Timber Bridge Rails (Total Rail L=1050 ft) Replace portion timber sidewalk	12,050.00	\$130,000	\$10.79	\$115,089	\$921,514	\$14,911	\$119,392	
19	Santa Cruz	County of Santa Cruz DPW	36C0130	14	Carol Drive	Lompico Creek	East of Lompico Road	69.6	FO	Clean and Paint Timber Bridge Rails (Total Rail L=60 ft)	753.00	\$15,000	\$19.92	\$13,280	\$934,794	\$1,721	\$121,112	
20	Santa Cruz	County of Santa Cruz DPW	36C0032	75	Swanton Road	Scott Creek	4.6 Mi. NW of SR1	59.4		Clean and Paint Timber Bridge Rails (Total Rail L=150 ft)	1,830.00	\$27,000	\$14.75	\$23,903	\$958,697	\$3,097	\$124,209	
Construction Subtotal												\$308,000	\$272,672	\$35,328				
Preliminary Engineering												\$30,000	\$26,559	\$3,441	\$127,650			
Construction Engineering												\$36,000	\$31,871	\$4,129	\$131,780			
Project Subtotal												\$374,000	\$331,102	\$42,898				

Priority (Lowest Number Is Top Priority)	County Location	Implementing Agency	Bridge number from Inspection Report	Local Agency Bridge ID	Facility Carried	Feature Intersected	Location	Sufficiency Rating	SD/FO Status	Work Description	Deck Area (ft ²)	Total Participating Cost	Unit Cost (\$/ft ²)	Federal Share	Running Fed Summary	Local Share	Running Local Share	FFY Funds Requested	
Project No. 4 - Scour Protection Repair BPMP-5936(107)																			
20	Santa Cruz	County of Santa Cruz DPW	36C-116	81	Valencia Road	Valencia Creek	@ Bear Valley Road	67.5	SD	Repair abutment scour protection	4,930.00	\$35,000	\$7.10	\$30,986	\$1,048,112	\$4,015	\$135,794		
21	Santa Cruz	County of Santa Cruz DPW	36C-113	71	Spreckles Drive	Aptos Creek	Treasure Island Dr.	64.9	FO	Repair abutment scour protection	1,075.00	\$90,000	\$83.72	\$79,677	\$1,127,789	\$10,323	\$146,117		
												\$125,000	\$110,663	\$14,338					16/17
												\$30,000	\$26,559	\$3,441	\$1,154,348	\$3,441	\$149,558		11/12
												\$20,000	\$17,706	\$2,294	\$1,172,054	\$2,294	\$151,852		16/17
Project Subtotal												\$175,000	\$154,928	\$20,073					
Project No. 5 - Soquel Drive BPMP-5936(113)																			
22	Santa Cruz	County of Santa Cruz DPW	36C-042	66	Soquel Drive	Rodeo Gulch	0.7 mi. west of Porter Street	62.0	SD	Repair abutment backwall, replace joint seals, polyester concrete overlay	12,000.00	\$441,807	\$36.82	\$391,132	\$1,563,186	\$50,675	\$202,527		
												\$441,807	\$391,132	\$50,675					14/15
												\$70,000	\$61,971	\$8,029	\$1,625,157	\$8,029	\$210,556		12/13
												\$40,000	\$35,412	\$4,588	\$1,660,569	\$4,588	\$215,144		14/15
Project Subtotal												\$551,807	\$488,515	\$63,292					
Project No. 6 - Methacrylate BPMP-5936(118)																			
23	Santa Cruz	County of Santa Cruz DPW	36C0012	70	Soquel-San Jose Road	W. Branch Soquel Creek	4.6 mi. north of Soquel Dr.	88.9		Methacrylate the Entire Deck Surface	4,784.00	\$31,000	\$6.48	\$27,444	\$1,688,013	\$3,556	\$218,700		
24	Santa Cruz	County of Santa Cruz DPW	36C0036	85	East Zayante Road	Zayante Creek	2.8 mi. north of Graham Hill Rd.	77.4	FO	Methacrylate the Entire Deck Surface, replace pourable joint seals	3,800.00	\$30,536	\$8.04	\$27,034	\$1,715,047	\$3,502	\$222,202		
25	Santa Cruz	County of Santa Cruz DPW	36C0081	37	Green Valley Road	Corralitos Creek	0.3 mi. NE of Freedom Blvd.	93.2		Methacrylate the Entire Deck Surface	7,980.00	\$45,000	\$5.64	\$39,839	\$1,754,885	\$5,162	\$227,364		
26	Santa Cruz	County of Santa Cruz DPW	36C0112	93	Airport Blvd.	Corralitos Creek	0.2 mi. north of Freedom Blvd.	95.6		Methacrylate the Entire Deck Surface	4,140.00	\$30,000	\$7.25	\$26,559	\$1,781,444	\$3,441	\$230,805		
												\$136,536	\$120,875	\$15,661					14/15
												\$20,000	\$17,706	\$2,294	\$1,799,150	\$2,294	\$233,099		13/14
												\$20,000	\$17,706	\$2,294	\$1,816,856	\$2,294	\$235,393		14/15
Project Subtotal												\$176,536	\$156,287	\$20,249					
Project No. 7 - Clean and Paint Steel Members BPMP-5936(117)																			
27	Santa Cruz	County of Santa Cruz DPW	36C0032	75	Swanton Road	Scott Creek	4.6 mi. NW of SR 1	83.2		Clean and paint steel girders	3,800.00	\$90,000	\$23.68	\$79,677	\$1,896,533	\$10,323	\$245,716		
28	Santa Cruz	County of Santa Cruz DPW	36C0155	125	Old Santa Cruz Highway	Woodwardia Sidehill Viaduct	0.6 mi. N of Hwy 17	62.8		Clean and paint steel piles and crossbraces	7,980.00	\$60,000	\$7.52	\$53,118	\$1,949,651	\$6,882	\$252,598		
												\$150,000	\$132,795	\$17,205					15/16
												\$50,000	\$44,265	\$5,735	\$1,993,916	\$5,735	\$258,333		13/14
												\$25,000	\$22,133	\$2,868	\$2,016,049	\$2,868	\$261,200		15/16
Project Subtotal												\$225,000	\$199,193	\$25,808					
Project No. 8 - East Zayante Road at Zayante Creek Concrete Spall Repair BPMP-5936(119)																			
29	Santa Cruz	County of Santa Cruz DPW	36C-142	86	East Zayante Rd.	Zayante Creek	3.2 mi north of Graham Hill Rd.	57.4	SD	Repair spalls in soffit and deck overhang	4,088.00	\$50,000	\$12.23	\$44,265	\$2,060,314	\$5,735	\$266,935		
												\$50,000	\$44,265	\$5,735					15/16
												\$25,000	\$22,133	\$2,868	\$2,082,446	\$2,868	\$269,803		13/14
												\$20,000	\$17,706	\$2,294	\$2,100,152	\$2,294	\$272,097		15/16
												\$15,000	\$13,280	\$1,721	\$2,113,432	\$1,721	\$273,817		15/16
Project Subtotal												\$110,000	\$97,383	\$12,617					
Project No. 9 - Timber Rail Repair																			
30	Santa Cruz	County of Santa Cruz DPW	36C-136	9	Brimblecom Rd.	San Lorenzo River	0.1 mi. west of Highway 9	48.8	FO	Replace deteriorated timber bridge rail & sidewalk	1,955.00	\$70,000	\$35.81	\$61,971	\$2,175,403	\$8,029	\$281,846		
31	Santa Cruz	County of Santa Cruz DPW	36C-005	49	Lockhart Gulch Rd.	Bean Creek	0.5 mi. north of Mt. Hermon	41.6	FO	Replace deteriorated timber bridge rail	990.00	\$30,000	\$30.30	\$26,559	\$2,201,962	\$3,441	\$285,287		
32	Santa Cruz	County of Santa Cruz DPW	36C-070	58	Pleasant Way	San Lorenzo River	0.1 mi. west of Highway 9	32.5	FO	Replace deteriorated timber bridge rail & sidewalk	810.00	\$45,000	\$55.56	\$39,839	\$2,241,800	\$5,162	\$290,449		
												\$145,000	\$128,369	\$16,632					16/17
												\$30,000	\$26,559	\$3,441	\$2,268,359	\$3,441	\$293,890		15/16
												\$20,000	\$17,706	\$2,294	\$2,286,065	\$2,294	\$296,184		16/17
Project Subtotal												\$195,000	\$172,634	\$22,367					
Total Costs												\$2,582,249	\$2,286,065	\$296,184					
FFY 11/12												\$175,000	\$154,928	\$20,073					
FFY 12/13												\$1,048,906	\$928,596	\$120,310					
FFY 13/14												\$120,000	\$106,236	\$13,764					
FFY 14/15												\$638,343	\$565,125	\$73,218					
FFY 15/16												\$290,000	\$256,737	\$33,263					
FFY 16/17												\$310,000	\$274,443	\$35,557					