

County of Santa Cruz

Bridge Preventative Maintenance Plan

PM 00059

Federal Fiscal Year 2013/2014 Bridge Preventative Maintenance Program

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
1	Santa Cruz	County of Santa Cruz DPW								Develop Next Years' BPMP		\$25,000		22,132.50	\$22,133	\$2,868	\$2,868
2	Santa Cruz	County of Santa Cruz DPW								Develop Next Years' BPMP		\$25,000		22,132.50	\$44,265	\$2,868	\$5,735

FFY Funds Requested

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Project No. 1 - Polyester Concrete Overlay

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		

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Project No. 2 - Methacrylate

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		

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Project No. 3 - Clean and Paint Timber Bridge Rails

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		

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Project No. 4 - Scour Protection Repair																			
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	14/15	
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	14/15	
												Construction Subtotal	\$125,000	\$110,663	\$14,338				
												Preliminary Engineering	\$30,000	\$26,559	\$3,441	\$1,154,348	\$3,441	\$149,558	11/12
												Construction Engineering	\$20,000	\$17,706	\$2,294	\$1,172,054	\$2,294	\$151,852	14/15
												Project Subtotal	\$175,000	\$154,928	\$20,073				

Project No. 5 - Soquel Drive																			
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	\$285,000	\$23.75	\$252,311	\$1,424,364	\$32,690	\$184,542	14/15	
												Construction Subtotal	\$285,000	\$252,311	\$32,690				
												Preliminary Engineering	\$70,000	\$61,971	\$8,029	\$1,486,335	\$8,029	\$192,571	12/13
												Construction Engineering	\$40,000	\$35,412	\$4,588	\$1,521,747	\$4,588	\$197,159	14/15
												Project Subtotal	\$395,000	\$349,694	\$45,307				

Project No. 6 - Methacrylate																			
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	\$27,000	\$5.64	\$23,903	\$1,545,651	\$3,097	\$200,255	14/15	
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	\$25,000	\$6.58	\$22,133	\$1,567,783	\$2,868	\$203,123	13/14	
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	\$40,000	\$5.01	\$35,412	\$1,603,195	\$4,588	\$207,711	14/15	
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	\$24,000	\$5.80	\$21,247	\$1,624,442	\$2,753	\$210,464	13/14	
												Construction Subtotal	\$116,000	\$102,695	\$13,305				
												Preliminary Engineering	\$20,000	\$17,706	\$2,294	\$1,642,148	\$2,294	\$212,758	13/14
												Construction Engineering	\$20,000	\$17,706	\$2,294	\$1,659,854	\$2,294	\$215,052	14/15
												Project Subtotal	\$156,000	\$138,107	\$17,893				

Project No. 7 - Clean and Paint Steel Members																			
27	Santa Cruz	County of Santa Cruz DPW	36C0018	73	Swanton Road	Big Creek	3.0 mi. NW of SR 1	74.8		Clean and Paint steel girders and railing	1,804.00	\$205,000	\$113.64	\$181,487	\$1,841,341	\$23,514	\$238,565	15/16	
28	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	\$70,000	\$18.42	\$61,971	\$1,903,312	\$8,029	\$246,594	13/14	
29	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	\$40,000	\$5.01	\$35,412	\$1,938,724	\$4,588	\$251,182	15/16	
												Construction Subtotal	\$315,000	\$278,870	\$36,131				
												Preliminary Engineering	\$50,000	\$44,265	\$5,735	\$1,982,989	\$5,735	\$256,917	13/14
												Construction Engineering	\$45,000	\$39,839	\$5,162	\$2,022,827	\$5,162	\$262,079	15/16
												Project Subtotal	\$410,000	\$362,973	\$47,027				

Project No. 8 - East Zayante Road at Zayante Creek Concrete Spall Repair																			
30	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	\$2,067,092	\$5,735	\$267,814	15/16	
												Construction Subtotal	\$50,000	\$44,265	\$5,735				
												Preliminary Engineering	\$25,000	\$22,133	\$2,868	\$2,089,225	\$2,868	\$270,681	13/14
												Construction Engineering	\$15,000	\$13,280	\$1,721	\$2,102,504	\$1,721	\$272,402	15/16
												Project Subtotal	\$90,000	\$79,677	\$10,323				

Total Costs	\$2,374,906	\$2,102,504	\$272,402
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	\$606,000	\$536,492	\$69,508
FFY 15/16	\$425,000	\$376,253	\$48,748