

CONSTRUCTION COST for FCD Share to Provide 3 ft of Freeboard per FCD Standards (in lieu of future FCD project to raise levees)

AGENCY: Contra Costa County Flood Control District

PROJECT: Marsh Drive Bridge Replacement over Walnut Creek Flood Control Channel

CONTRACTOR: Bridgeway Civil Constructors, Inc.



Quantities By: N. Leary (PWD) and T. Jensen (FCD)

Date: 4/26/2021

NO.	CONTRACT ITEMS	UNIT	QUANTITY	PRICE	AMOUNT
1	CONSTRUCTION SURVEY AND STAKING	LS	0.05	\$70,000.00	\$3,500
2	CONTRACTOR QUALITY CONTROL PLAN	LS	0.05	\$50,000.00	\$2,500
3	LEAD COMPLIANCE PLAN	LS		\$4,000.00	\$0
4	PROGRESS SCHEDULE (CRITICAL PATH METHOD)	LS	0.05	\$1,500.00	\$75
5	CONSTRUCTION AREA SIGNS	LS	0.05	\$6,000.00	\$300
6	TEMPORARY TRAFFIC CONTROL SYSTEM	LS	0.05	\$100,000.00	\$5,000
7	TYPE III BARRICADE	EA		\$100.00	\$0
8	TEMPORARY TRAFFIC STRIPE (PAINT)	LF		\$2.50	\$0
9	CHANNELIZER (SURFACE MOUNTED)	EA		\$50.00	\$0
10	PORTABLE CHANGEABLE MESSAGE SIGNS	LS		\$40,000.00	\$0
11	TEMPORARY RAILING (TYPE K)	LF		\$20.00	\$0
12	TEMPORARY CRASH CUSHION	EA		\$6,000.00	\$0
13	TEMPORARY CREEK DIVERSION SYSTEM	LS		\$225,000.00	\$0
14	JOB SITE MANAGEMENT	LS	0.05	\$60,000.00	\$3,000
15	PREPARE SWPPP	LS	0.05	\$2,500.00	\$125
16	RAIN EVENT ACTION PLAN	EA		\$500.00	\$0
17	STORM WATER SAMPLING AND ANALYSIS, DAY	EA		\$300.00	\$0
18	STORM WATER ANNUAL REPORT	EA		\$800.00	\$0
19	WATER QUALITY SAMPLING AND ANALYSIS, DAY	EA		\$300.00	\$0
20	WATER QUALITY MONITORING REPORT	EA		\$600.00	\$0
21	TEMPORARY HYDRAULIC MULCH	SQYD		\$2.00	\$0
22	TEMPORARY CHECK DAM	LF		\$16.00	\$0
23	TEMPORARY DRAINAGE INLET PROTECTION	EA		\$196.00	\$0
24	TEMPORARY FIBER ROLL	LF		\$8.00	\$0
25	TEMPORARY REINFORCED SILT FENCE	LF	3,410	\$28.00	\$95,480
26	TEMPORARY CONSTRUCTION ENTRANCE	EA		\$5,000.00	\$0
27	TEMPORARY CONCRETE WASHOUT	LS		\$7,000.00	\$0
28	BIRD PROTECTION MEASURES	LS		\$74,000.00	\$0
29	CONTRACTOR SUPPLIED BIOLOGIST	LS		\$140,000.00	\$0
30	ASBESTOS COMPLIANCE PLAN	LS		\$4,000.00	\$0
31	REMOVE BOLLARDS (PRIVATE PROPERTY)	EA		\$70.00	\$0
32	TEMPORARY HIGH-VISIBILITY FENCE	LF		\$11.00	\$0
33	FURNISH FIELD OFFICE	LS	0.05	\$72,000.00	\$3,600
34	CLEARING AND GRUBBING	LS	0.05	\$30,000.00	\$1,500
35	WATER METER CHARGES	LS		\$6,000.00	\$0
36	ROADWAY EXCAVATION	CY		\$120.00	\$0
37	STRUCTURE EXCAVATION (BRIDGE) (F)	CY		\$80.00	\$0
38	STRUCTURE EXCAVATION (RETAINING WALL) (F)	CY		\$80.00	\$0
39	STRUCTURE BACKFILL (BRIDGE) (F)	CY	72	\$270.00	\$19,440
40	STRUCTURE BACKFILL (RETAINING WALL) (F)	CY	213	\$125.00	\$26,625
41	IMPORTED BORROW	CY	5,200	\$16.00	\$83,200
42	RESTORATION HYDROSEEDING	LS	1	\$24,000.00	\$24,000
43	BONDED FIBER MATRIX WITH HYDROSEED MIX	SQFT	15,400	\$0.31	\$4,774
44	FIBER ROLL	LF	2,120	\$9.00	\$19,080
45	CLASS 2 AGGREGATE BASE (PARTICIPATING)	CY		\$74.00	\$0
46	CLASS 2 AGGREGATE BASE (NON-PARTICIPATING)	CY		\$74.00	\$0
47	HOT MIX ASPHALT (TYPE A)	TON		\$148.00	\$0
48	PLACE HOT MIX ASPHALT DIKE (TYPE A)	LF		\$32.00	\$0
49	COLD PLANE ASPHALT CONCRETE PAVEMENT	SQYD		\$40.00	\$0
50	36" CAST-IN-DRILLED-HOLE CONCRETE PILING	LF		\$408.00	\$0
51	PRESTRESSING CAST-IN-PLACE CONCRETE	LS		\$90,000.00	\$0
52	STRUCTURAL CONCRETE, BRIDGE (F)	CY		\$1,760.00	\$0
53	STRUCTURAL CONCRETE, BRIDGE (POLYMER FIBER) (F)	CY		\$950.00	\$0
54	STRUCTURAL CONCRETE, RETAINING WALL (F)	CY	114	\$1,000.00	\$114,000
55	JOINT SEAL (MR 2")	LF		\$150.00	\$0
56	BAR REINFORCING STEEL (BRIDGE) (F)	LB		\$1.40	\$0
57	BAR REINFORCING STEEL (RETAINING WALL) (F)	LB	6,650	\$1.30	\$8,645
58	HEADED BAR REINFORCEMENT (F)	EA		\$52.00	\$0
59	PEDESTRIAN BARRICADE	EA		\$2,704.00	\$0
60	BRIDGE REMOVAL	LS		\$98,000.00	\$0
61	18" REINFORCED CONCRETE DRAINAGE PIPE	LF		\$170.00	\$0
62	18" REINFORCED CONCRETE DRAINAGE PIPE (SHALLOW COVER)	LF		\$164.00	\$0
63	18" REINFORCED CONCRETE DRAINAGE PIPE (CLSM)	LF		\$204.00	\$0
64	24" REINFORCED CONCRETE DRAINAGE PIPE	LF		\$220.00	\$0
65	24" REINFORCED CONCRETE DRAINAGE PIPE (CLSM)	LF		\$340.00	\$0
66	DRAINAGE INLET (DI TYPE G)	EA		\$5,400.00	\$0
67	DRAINAGE INLET (TYPE 2 CATCH BASIN)	EA		\$9,200.00	\$0
68	60" PRECAST CONCRETE PIPE MANHOLE	EA		\$19,238.00	\$0
69	REMOVE DRAINAGE INLET	EA		\$1,030.00	\$0
70	REMOVE STORM DRAIN PIPE	LF		\$45.00	\$0
71	RECONSTRUCT INLET AND INSTALL GATE VALVE	EA		\$10,200.00	\$0

72	ADJUST INLET	EA		\$2,375.00	\$0
73	ROCK SLOPE PROTECTION (1/4T, CLASS 5, METHOD B)	LS		\$347,000.00	\$0
74	ROCK SLOPE PROTECTION FABRIC (CLASS 8)	LS		\$7,500.00	\$0
75	MINOR CONCRETE (RETAINING CURB)	LF		\$40.00	\$0
76	DETECTABLE WARNING SURFACE (PARTICIPATING)	SF		\$36.00	\$0
77	DETECTABLE WARNING SURFACE (NON-PARTICIPATING)	SF		\$36.00	\$0
78	MINOR CONCRETE (CURB AND GUTTER)	LF		\$40.00	\$0
79	MINOR CONCRETE (DRIVEWAY)	SQFT		\$14.00	\$0
80	MINOR CONCRETE (SIDEWALK) (PARTICIPATING)	SQFT		\$12.00	\$0
81	MINOR CONCRETE (SIDEWALK) (NON-PARTICIPATING)	SQFT		\$12.00	\$0
82	MINOR CONCRETE (VALLEY GUTTER)	SQFT		\$17.00	\$0
83	MINOR CONCRETE (CURB RAMP)	CY		\$900.00	\$0
84	REMOVE CONCRETE (CURB)	LF		\$9.00	\$0
85	REMOVE CONCRETE FLOODWALL	LF	35	\$82.00	\$2,870
86	REMOVE CONCRETE (SIDEWALK AND DRIVEWAY)	SQFT		\$2.00	\$0
87	REMOVE STAMPED CONCRETE	SQFT		\$6.00	\$0
88	REMOVE CONCRETE (CURB AND GUTTER)	LF		\$32.00	\$0
89	SET STANDARD STREET MONUMENT	EA		\$1,700.00	\$0
90	SET VERTICAL BENCH MONUMENT	EA		\$905.00	\$0
91	PAINT CURB	LF		\$2.75	\$0
92	REMOVE CURB PAINT	LF		\$8.00	\$0
93	ANTI-GRAFFITI COATING (BRIDGE)	SQFT		\$5.00	\$0
94	OBLITERATE SURFACING	SQYD		\$7.00	\$0
95	CHAIN AND POST FENCE	LF	125	\$92.00	\$11,500
96	POST AND CHAIN FENCE WITH PILASTER	LF	55	\$92.00	\$5,060
97	CHAIN LINK FENCE	LF	490	\$59.00	\$28,910
98	METAL GATE	EA	2	\$6,200.00	\$12,400
99	CHAIN LINK GATE	EA	2	\$4,300.00	\$8,600
100	REMOVE WOOD FENCE	LF	25	\$35.00	\$875
101	REMOVE CHAIN AND POST FENCE	LF	90	\$8.00	\$720
102	REMOVE POST AND CHAIN FENCE WITH PILASTER	LF	55	\$10.00	\$550
103	REMOVE CHAIN LINK FENCE	LF	353	\$8.00	\$2,824
104	REMOVE CHAIN LINK GATE	EA	3	\$566.00	\$1,698
105	REMOVE METAL GATE	EA	2	\$566.00	\$1,132
106	RECONSTRUCT WOOD FENCE	LF	40	\$232.00	\$9,280
107	REMOVE PAVEMENT MARKER	EA		\$1.12	\$0
108	RESET METAL GATE	EA	1	\$3,000.00	\$3,000
109	PAVEMENT MARKER (RETROREFLECTIVE)	EA		\$11.00	\$0
110	REMOVE ROADSIDE SIGN	EA		\$68.00	\$0
111	RESET ROADSIDE SIGN	EA		\$108.00	\$0
112	RELOCATE ROADSIDE SIGN	EA		\$215.00	\$0
113	ROADSIDE SIGN	EA		\$340.00	\$0
114	EXTERIOR CONCRETE BARRIER (SW)	LF		\$885.00	\$0
115	INTERIOR CONCRETE BARRIER (W/O SW)	LF		\$784.00	\$0
116	PEDESTRIAN RAILING	LF		\$672.00	\$0
117	TUBULAR HANDRAILING (RETAINING WALL)	LF		\$187.00	\$0
118	TRANSITION RAILING (TYPE WB-31)	EA		\$6,300.00	\$0
119	ALTERNATIVE IN-LINE TERMINAL SYSTEM	EA		\$7,060.00	\$0
120	CRASH CUSHION	EA		\$36,500.00	\$0
121	CONCRETE BARRIER (TYPE 732SW MODIFIED)	LF		\$330.00	\$0
122	REMOVE GUARDRAIL	LF	95	\$32.00	\$3,040
123	REMOVE CONCRETE BARRIER (TYPE K)	LF	60	\$11.00	\$660
124	6" THERMOPLASTIC TRAFFIC STRIPE	LF		\$2.25	\$0
125	8" THERMOPLASTIC TRAFFIC STRIPE	LF		\$4.50	\$0
126	THERMOPLASTIC PAVEMENT MARKING	SQFT		\$14.00	\$0
127	REMOVE TRAFFIC STRIPE	LF		\$1.12	\$0
128	REMOVE PAVEMENT MARKING	SQFT		\$4.50	\$0
129	FUTURE ELECTRICAL/COMMUNICATION CONDUIT AND PULL BOXES	LS		\$53,000.00	\$0
130	SAW CUT (CCWD)	LF		\$5.00	\$0
131	INSTALL 8" AND 6" WATER MAIN (CCWD)	LF		\$245.00	\$0
132	INSTALL 4" AND 2" WATER SERVICE (CCWD)	LS		\$118.00	\$0
133	BACKFLOW AND METER RELOCATION (CCWD)	LS		\$5,000.00	\$0
134	INSTALL GATE VALVES AND BOXES (CCWD)	EA		\$2,829.00	\$0
135	INSTALL HYDRANT (CCWD)	EA		\$20,370.00	\$0
136	DISINFECTION AND TESTING (CCWD)	LS		\$8,035.00	\$0
137	WATER MAIN CONNECTIONS (CCWD)	EA		\$6,000.00	\$0
138	SHEETING, SHORING, AND BRACING (CCWD)	LS		\$9,055.00	\$0
139	RAISE MANHOLES TO GRADE (CCWD)	EA		\$2,037.00	\$0
140	ADJUST WATER VALVE BOX (CCWD)	EA		\$1,020.00	\$0
141	RELOCATE HYDRANT (CCWD)	EA		\$14,700.00	\$0
142	ADJUST WATER VALVE BOX - SMALL ADJUSTMENT (CCWD)	EA		\$792.00	\$0
143	RELOCATE PG&E METER AND TRANSFORMER	LS		\$62,000.00	\$0
144	RELOCATE PG&E FACILITIES BRIDGE	LS		\$304,000.00	\$0
145	MOBILIZATION	LS	0.05	\$1,000,000.00	\$50,000

ITEMS SUBTOTAL: \$557,963

Design Engineering @20% \$111,593

Construction Engineering @ 15% \$83,694

TOTAL COST: \$753,250