

**SAN JOAQUIN AREA FLOOD CONTROL AGENCY
SMITH CANAL GATE STRUCTURE
STOCKTON, CALIFORNIA**

**BID SET
OPINION OF PROBABLE CONSTRUCTION COSTS**

Item	Description	Quantity	Unit	Unit Cost	Total Cost
General Requirements					
1.	Mobilization	1	LS	3.00%	\$1,098,800
2.	Demobilization	1	LS	2.00%	\$725,500
3.	CPM Schedule and Updates (assume 18 mo. Const.)	1	LS	0.25%	\$89,200
4.	Shop Drawings and Special Conditions	1	LS	0.25%	\$89,200
5.	Temporary Facilities/Fencing/Offices/Site Security	1	LS	0.50%	\$178,700
6.	Record Documents	1	LS	0.10%	\$35,600
7.	Facilities Start-Up & Testing	1	LS	0.75%	\$268,700
8.	Tax (9.0% on materials)	1	LS	9.00%	\$1,600,200
9.	Bonding & Insurance	1	LS	3.00%	\$1,067,000
10.	Permitting (incl. SWPPP)	1	LS	1.00%	\$359,200
Subtotal:					\$5,512,100
Gate Control Structure					
11.	Sheet Pile Seepage Cutoff / Cofferdam	22,000	SF	\$50	\$1,100,000
12.	Dewatering	1	LS	\$70,000	\$70,000
13.	Dredging	4,000	CY	\$65	\$260,000
14.	Riprap Scour Protection	5,500	TN	\$51	\$280,500
15.	36" Diameter Piles (Material, Shipping, and Installation)	5,248	LF	\$344	\$1,805,400
16.	Pipe Pile Concrete Fill	135	CY	\$600	\$81,000
17.	Reinforced Concrete - Structure	1,920	CY	\$1,200	\$2,304,000
18.	Concrete - Tremie Slab	250	CY	\$600	\$150,000
19.	Miter Gate	140,000	LB	\$21	\$2,870,000
20.	Access Structures	21,500	LB	\$6	\$118,300
21.	Gudgeon Forgings	3,200	LB	\$54	\$172,000
22.	Gudgeon and Actuator Connections Rolled Steel Components	14,000	LB	\$16	\$227,500
23.	Pintle Forgings	9,000	LB	\$54	\$483,800
24.	Self-Lubricated Bearings, Seals, and Misc Components	1	LS	\$150,000	\$150,000
25.	Stoplogs	1	LS	\$650,000	\$650,000
26.	Mechanical (actuators and latch operators)	1	LS	\$220,000	\$220,000
27.	Miscellaneous, Floating Fenders, Signs	1	LS	\$125,000	\$125,000
Subtotal:					\$11,067,500
Dual Sheet Pile Wall Closure					
28.	Sheet Piling Cell Structure (AS500 - Material and Shipping Only)	206,116	SF	\$40	\$8,244,700
29.	Sheet Piling Cell Structure (Installation)	206,116	SF	\$22	\$4,534,600
30.	Sheet Pile Cutoffs (PZ40 - Material and Shipping Only)	29,086	SF	\$35	\$1,018,100
31.	Sheet Pile Cutoffs (Installation)	29,086	SF	\$15	\$436,300
32.	Seals and Connection Hardware	4	LS	\$2,000	\$8,000
33.	Riprap Scour Protection	4,100	TN	\$51	\$209,100
34.	Dredging (Optional - A)	1,950	CY	\$53	\$103,400
35.	Granular Fill	12,900	CY	\$93	\$1,199,700
Subtotal:					\$15,753,900
Dolphin/Impact Barrier - Pipe Piles					
36.	36" Dia x0.625" thk Piles (Material, Shipping, and Installation)	2,600	LF	\$300	\$780,000
37.	Floating Donut Fenders	4	EA	\$20,000	\$80,000
38.	Misc. Fittings (nav lights, signage)	4	EA	\$1,000	\$4,000
Subtotal:					\$864,000
Electrical Equipment					
39.	Power Distribution Equipment	1	LS	\$154,000	\$154,000
40.	Control Equipment	1	LS	\$194,000	\$194,000

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41.	Site Lighting	1	LS	\$263,000	\$263,000
42.	Motor Control Equipment	1	LS	\$62,000	\$62,000
43.	Conduit and Wire	1	LS	\$2,929,000	\$2,929,000
44.	O&M, Startup, Commissioning, Training	1	LS	\$71,000	\$71,000
				Subtotal:	\$3,673,000

Dad's Point Improvements

45.	Dad's Point Demolition and Disposal	1	LS	\$35,000	\$35,000
46.	Invasives Removal	19,000	SF	\$2	\$28,500
47.	8' Tubular Steel Fencing	400	LF	\$172	\$68,800
48.	Tubular Steel Gate (26')	1	EA	\$5,000	\$5,000
49.	Swing Gate	1	EA	\$1,875	\$1,900
50.	Bollards	10	EA	\$915	\$9,200
51.	Electrical Equipment Pad and Picnic Table Slabs	30	CY	\$11	\$400
52.	Seismic Sheet Pile Wall (PZ 40)	8,500	SF	\$47	\$399,500
53.	Steel Sheet Pile Wall (NZ-26/AZ-26)	56,225	SF	\$33	\$1,882,900
54.	Protective Concrete Cap for Exposed Floodwall	300	LF	\$150	\$45,000
55.	Road Base (4" 3/4 in AB)	3,167	SY	\$9	\$28,500
56.	Concrete Access Road	11,400	SF	\$23	\$262,200
57.	Turf Block Access Road	17,100	SF	\$24	\$410,400
58.	Engineered Fill (spread and compact)	4,200	CY	\$44	\$182,700
59.	Parking Lot Repairs	3,000	SF	\$5	\$15,000
60.	Sidewalk Replacement	1,625	SF	\$12	\$19,500
61.	Partial Removal of 30" CIP Sewer	135	LF	\$58	\$7,900
62.	Excavation of Sewer 30" CIP Sewer	100	LF	\$113	\$11,400
					\$3,413,800

Recreational Features

63.	Fishing Platforms	2	EA	\$195,000	\$390,000
64.	Riprap Scour Protection	90	TN	\$51	\$4,600
				Subtotal:	\$394,600

Landscaping Features

65.	Planter Boxes on Floodwall	142	EA	\$1,548	\$219,900
66.	Planter Box Irrigation Pumps/Wells	2	EA	\$1,500	\$3,000
67.	Bat Boxes	5	EA	\$1,500	\$7,500
68.	Picnic Tables with two Benches	3	EA	\$7,800	\$23,400
69.	Benches	7	EA	\$2,000	\$14,000
70.	Water Fountain	1	EA	\$4,500	\$4,500
71.	Trash Receptacles	2	EA	\$5,200	\$10,400
72.	Interpretive Path Kiosks	4	EA	\$6,000	\$24,000
73.	Gathering Space with Seating	1	LS	\$13,600	\$13,600
				Subtotal:	\$320,300

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Item	Description	Quantity	Unit	Unit Cost	Total Cost
Golf Course Access Road					
74.	6" Plastic Drain Pipe	230	LF	\$6	\$1,400
75.	Golf Course Demolition	1	LS	\$15,000	\$15,000
76.	Precast Drop Inlet	1	EA	\$1,325	\$1,400
77.	2" Plastic Irrigation Pipe	260	LF	\$2	\$600
78.	Tree Removal	5	EA	\$1,750	\$8,800
79.	Concrete Path (10' Wide)	730	LF	\$23	\$16,800
80.	26' Tubular Steel Gate	1	EA	\$5,000	\$5,000
81.	Engineered Fill	150	CY	\$44	\$6,600
82.	Concrete Stairs with Railing	15	LF	\$144	\$2,200
83.	Grass Pavers	3,013	SF	\$5	\$13,600
Subtotal:					\$71,400

CONSTRUCTION (LESS GENERAL REQUIREMENTS) SUBTOTAL:	\$35,559,000
ADD FOR GENERAL REQUIREMENTS:	\$5,513,000
SUBTOTAL:	\$41,072,000
CONTINGENCY (25%):	\$8,890,000
CONSTRUCTION TOTAL:	\$49,962,000

Notes:

- (1) This Opinion of Probable Construction Costs is based on the Issued for Bid plans prepared by HDR Engineering and PBI dated November 2018.