

Tulsa Ports

Towboat Dock Replacement Project



Revision: 90% Design Submittal
 Date: 7/20/2021
 Construction Duration (Mo): 9

Opinion of Probable Cost

				Unit Cost	TOTAL
0	PROCUREMENT AND CONTRACTING REQUIREMENTS				
	Site and Environmental Permitting	1	LS	200,000.00	200,000.00
	Engineering Services During Construction (Const Admin, Inspections, material tests)	1	LS	345,000.00	345,000.00
					\$ 545,000.00
1	GENERAL REQUIREMENTS				
	Mobilization/Demobilization	1	LS	150,000.00	150,000.00
	Administration	9	MO	1,500.00	13,500.00
	General Conditions - Staffing (PM Half Time and APM/EIT Full Time)	9	MO	38,000.00	342,000.00
	General Conditions - Site Support Mat'l / Equipment	5	MO	7,500.00	37,500.00
	Site Temporary Fencing	100	LF	18.00	1,800.00
	Site Clean Up Labor	5	MO	2,600.00	13,000.00
	Builders Risk & General Liability Insurances	1	LS	3,500.00	3,500.00
					\$ 561,300.00
2	EXISTING CONDITION			Sub/LS	TOTAL
	Demolish Existing Dock	1	LS	90,000.00	90,000.00
					\$ 90,000.00
3	CONCRETE			Sub/LS	TOTAL
	Pile Fill	236	CY	750.00	177,000.00
	Retaining Wall	8	CY	1,500.00	12,000.00
	Misc Pads	6	CY	750.00	4,500.00
					\$ 193,500.00
26	ELECTRICAL			Sub/LS	TOTAL
	Low Voltage Cable (3/C & 4/C, THHN & Marine)	2,400	LF	14.00	33,600.00
	Ground Cable (#4/0 Bare Copper)	300	LF	8.00	2,400.00
	Grounding Materials (Jumpers, Rods, Wells)	1	EA	9,500.00	9,500.00
	Conduit (All sizes)	2,275	LF	51.00	116,025.00
	Conduit Trenching	5	LF	200.00	914.00
	Dock/Ramp Lights (C-H, model PMV)	7	EA	3,000.00	21,000.00
	Area Lights (Cooper Area Lights w/ 25ft Poles)	3	EA	6,000.00	18,000.00
	Swivel pole (8ft poles for dock/ramp lights)	7	EA	1,200.00	8,400.00
	Low Voltage Transformer (75KVA, 480-120/208V, 3-Ph, Dry-Type, NEMA 3R)	1	EA	6,500.00	6,500.00
	Fused Disconnect Switch (600V, 100A, 3-Ph) NEMA 3R w/ Surge	1	EA	2,000.00	2,000.00
	Non-fused Disconnect Switches (240V, 200A, 3-Ph) NEMA 3R	2	EA	1,500.00	3,000.00
	GFCI Receptacles (120V, 15A, Weatherproof enclosure)	3	EA	469.00	1,407.00
	Panelboard (120/208V, 100A Main CB, 24-Ckt)	1	EA	5,000.00	5,000.00
	Lighting Contactor (6ckt w/ HOA)	1	EA	1,700.00	1,700.00
	Unistrut Switchrack	1	EA	3,900.00	3,900.00
					\$ 233,346.00
31	EARTHWORK			Sub/LS	TOTAL
	Drill Rock Sockets 72"	120	LF	2,414.00	289,680.00
	Casing 84" (\$.85/Lb)	72	LF	1,255.00	90,360.00
	48" Pipe Pile (\$.85/Lb)	468	LF	443.00	207,324.00
	Concrete Fill Around Pipe Pile	100	CY	441.00	44,100.00
	24" Pipe Piles (\$.85/Lb)	588	LF	218.00	128,184.00
	Drill Rock Sockets 48"	308	LF	1,297.00	399,476.00
	Concrete Fill Around Pipe Pile	106	CY	441.00	46,746.00
	Remove And Replace Fence for Pump	80	LF	48.00	3,840.00
	Temp Road for Pump & Trucks	233	SY	12.00	2,796.00
	Remove Temp Road	233	SY	7.00	1,631.00
	Diag Bracing for All Piers	10	TN	5,887.00	58,870.00
	Work And Bracing Barge Rental Spud	2	MO	26,390.00	52,780.00
					\$ 1,325,787.00
32	EXTERIOR IMPROVEMENTS			Sub/LS	TOTAL
	Turbidity Curtain	260	LF	25.00	6,500.00
	Silt Fence	730	LF	4.00	2,920.00
	Safety Fence	340	LF	3.00	1,020.00
	Permanent Seeding	6,500	SF	1.50	9,750.00
	Inlet Protection	1	EA	300.00	300.00
	Construction Entrance	1	EA	2,500.00	2,500.00
	Concrete Washout Area	1	EA	1,000.00	1,000.00
	Riprap	836	TON	80.00	66,880.00
	Earthwork - Cut	1,250	CY	21.00	26,250.00
	4" Concrete Walkway	130	SY	60.00	7,800.00
	4" Parking Space Striping	45	LF	2.50	112.50
	Chain Link Fence W/ Barbed Wire & 6' Wide Gate	160	LF	45.00	7,200.00
					\$ 132,232.50
33	UTILITIES			Sub/LS	TOTAL
	2" Schedule 80 PVC Pipe - Water	190	LF	45.00	8,550.00
	Yard Hydrant	1	EA	600.00	600.00
	2" Schedule 80 PVC Valve & Valve Box	2	EA	800.00	1,600.00
	2" Schedule 80 PVC Tee	1	EA	150.00	150.00
					\$ 10,900.00
35	WATERWAY AND MARINE CONSTRUCTION			Sub/LS	TOTAL
	Aluminum gangways, 10'x10' platforms, handrails, and ramps and a concrete floating dock (including freight)	1	LS	426,710.00	426,710.00
					\$ 426,710.00
	CONSTRUCTION TOTAL				\$ 3,518,775.50
	CONTINGENCIES		Low -10%		\$ (351,877.55)
			High 15%		\$ 527,816.33
	PROBABLE COST RANGE		Low -10%		\$ 3,166,897.95
			High 15%		\$ 4,046,591.83
	OTHER POTENTIAL PROJECT COST			Sub/LS	TOTAL

Notes and Assumptions

- This estimate does not include fees associated with plan reviews, permitting, inspections, and bonding.
- This estimate does not include contractor markup

CHANGES FROM 65% DESIGN:

1. Changed Water Line connection from Corporation Stop to 2" Tee with 2" Ball Valve and Valve Box.
2. Assumed that a pile embedments will all be rock sockets instead of driven piles.
3. Costs for swrk was included, conduit quantity increased, equipment pricing was "trued-up" and labor costs for installation of all equipment was incorporated into the unit pricing.

