



**DOUGLAS HARBOR UPLAND IMPROVEMENTS
PHASE 1 - MOORAGE AREA PARKING
BUDGET LEVEL ESTIMATE**



Prepared by: PND ENGINEERS, INC.

May 30, 2017

Item	Item Description	Units	Quantity	Unit Cost	Amount
1505.1	Mobilization	LS	All Req'd	\$171,075	\$171,075
1570.1	Erosion & Sediment Control	LS	All Req'd	\$10,000	\$10,000
2060.1	Demolition, Salvage & Disposal	LS	All Req'd	\$20,000	\$20,000
2201.1	Clearing & Grubbing	LS	All Req'd	\$5,000	\$5,000
2202.1	Mining Area Restoration and Road Cleaning Guarantee	CS	All Req'd	\$10,000	\$10,000
2202.2	Excavation	CY	1,500	\$20	\$30,000
2202.4	Class A Shot Rock Borrow	CY	2,000	\$30	\$60,000
2204.3	Roadway Base Course	CY	900	\$50	\$45,000
2501.1	6-Inch CPP Storm Drain Pipe	LF	100	\$50	\$5,000
2501.2	18-Inch CPP Storm Drain Pipe	LF	250	\$60	\$15,000
2501.3	24-Inch CPP Storm Drain Pipe	LF	300	\$100	\$30,000
2501.4	36-Inch CPP Storm Drain Pipe	LF	370	\$150	\$55,500
2501.6	Board Insulation	BD	50	\$50	\$2,500
2502.1	Storm Drain Catch Basin, Type IV	EA	6	\$3,000	\$18,000
2502.2	Storm Drain Manhole, Type I	EA	2	\$4,500	\$9,000
2502.3	Storm Drain Manhole, Type II	EA	3	\$7,000	\$21,000
2502.4	Storm Drain Water Quality Unit with 24-Inch Bypass	LS	All Req'd	\$35,000	\$35,000
2502.5	Storm Drain Outfall Structure	LS	All Req'd	\$35,000	\$35,000
2502.6	Trench Drain	LF	250	\$150	\$37,500
2602.1	Adjust Valve Box to Finish Grade	EA	2	\$500	\$1,000
2603.1	Fire Hydrant w/ Storz Connector	EA	1	\$8,000	\$8,000
2702.1	Construction Surveying	LS	All Req'd	\$50,000	\$50,000
2718.1	Signage	LS	All Req'd	\$5,000	\$5,000
2720.1	Painted Traffic Markings	LS	All Req'd	\$20,000	\$20,000
2801.1	AC Pavement, Type II, Class B, 3-Inch Thick	TON	1,000	\$200	\$200,000
2870.1	Site Furnishings	LS	All Req'd	\$10,000	\$10,000
2910.1	Planting Soils	LS	All Req'd	\$40,000	\$40,000
2930.1	Exterior Plants & General Landscaping	LS	All Req'd	\$50,000	\$50,000
2970.1	Landscape Maintenance	LS	All Req'd	\$5,000	\$5,000
3303.1	6-Inch Thick Concrete Seawalk on Grade	SY	100	\$230	\$23,000
3303.2	Cantilevered Concrete Seawalk	CY	240	\$1,500	\$360,000
3303.3	Curb and Gutter, Types I-VII	LF	2,700	\$40	\$108,000
5120.1	Seawalk Guardrail	LF	725	\$250	\$181,250
5120.2	Bollards	EA	6	\$1,000	\$6,000
16000.1	Electrical - Site Lighting	LS	All Req'd	\$200,000	\$200,000
ESTIMATED CONSTRUCTION COST					\$1,881,825
CONTINGENCY (10%)					\$188,183
SITE SURVEYS, FIELD RECON & PERMITS					\$40,000
FINAL DESIGN & CONTRACT DOCUMENTS					\$150,546
CONTRACT ADMINISTRATION & CONSTRUCTION INSPECTION					\$188,183
TOTAL RECOMMENDED PROJECT BUDGET					\$2,448,736



**DOUGLAS HARBOR UPLAND IMPROVEMENTS
PHASE 2 - BOAT RAMP AREA PARKING
BUDGET LEVEL ESTIMATE**



Prepared by: PND ENGINEERS, INC.

May 30, 2017

Item	Item Description	Units	Quantity	Unit Cost	Amount
1505.1	Mobilization	LS	All Req'd	\$231,500	\$231,500
1570.1	Erosion & Sediment Control	LS	All Req'd	\$10,000	\$10,000
2060.1	Demolition, Salvage & Disposal	LS	All Req'd	\$20,000	\$20,000
2201.1	Clearing & Grubbing	LS	All Req'd	\$5,000	\$5,000
2202.1	Mining Area Restoration and Road Cleaning Guarantee	CS	All Req'd	\$10,000	\$10,000
2202.2	Excavation	CY	2,500	\$20	\$50,000
2202.4	Class A Shot Rock Borrow	CY	4,500	\$30	\$135,000
2204.3	Roadway Base Course	CY	2,250	\$50	\$112,500
2401.1	Sewer Sevice	LS	All Req'd	\$50,000	\$50,000
2501.2	18-Inch CPP Storm Drain Pipe	LF	800	\$60	\$48,000
2501.3	24-Inch CPP Storm Drain Pipe	LF	200	\$100	\$20,000
2501.6	Board Insulation	BD	50	\$50	\$2,500
2502.1	Storm Drain Catch Basin, Type IV	EA	5	\$3,000	\$15,000
2502.2	Storm Drain Manhole, Type I	EA	3	\$4,500	\$13,500
2502.3	Storm Drain Manhole, Type II	EA	2	\$7,000	\$14,000
2502.4	Storm Drain Water Quality Unit with 24-Inch Bypass	LS	All Req'd	\$35,000	\$35,000
2502.5	Storm Drain Outfall Structure	LS	All Req'd	\$25,000	\$25,000
2601.1	Water Service	LS	All Req'd	\$50,000	\$50,000
2602.1	Adjust Valve Box to Finish Grade	EA	2	\$500	\$1,000
2603.1	Fire Hydrant w/ Storz Connector	EA	1	\$8,000	\$8,000
2702.1	Construction Surveying	LS	All Req'd	\$50,000	\$50,000
2718.1	Signage	LS	All Req'd	\$5,000	\$5,000
2720.1	Painted Traffic Markings	LS	All Req'd	\$25,000	\$25,000
2801.1	AC Pavement, Type II, Class B, 3-Inch Thick	TON	2,400	\$200	\$480,000
2870.1	Site Furnishings	LS	All Req'd	\$10,000	\$10,000
2910.1	Planting Soils	LS	All Req'd	\$40,000	\$40,000
2930.1	Exterior Plants & General Landscaping	LS	All Req'd	\$50,000	\$50,000
2970.1	Landscape Maintenance	LS	All Req'd	\$5,000	\$5,000
3303.1	6-Inch Thick Concrete Seawalk on Grade	SY	1,150	\$230	\$264,500
3303.3	Curb and Gutter, Types I-VII	LF	2,000	\$40	\$80,000
5120.2	Bollards	EA	6	\$1,000	\$6,000
13121.1	Covered Shelter	LS	All Req'd	\$150,000	\$150,000
13121.2	Covered Kiosk	LS	All Req'd	\$25,000	\$25,000
13121.3	Restroom	SF	500	\$400	\$200,000
16000.1	Electrical - Site Lighting	LS	All Req'd	\$300,000	\$300,000
ESTIMATED CONSTRUCTION COST					\$2,546,500
CONTINGENCY (10%)					\$254,650
SITE SURVEYS, FIELD RECON & PERMITS					\$40,000
FINAL DESIGN & CONTRACT DOCUMENTS					\$254,650
CONTRACT ADMINISTRATION & CONSTRUCTION INSPECTION					\$254,650
TOTAL RECOMMENDED PROJECT BUDGET					\$3,350,450