

**GARY PAXTON INDUSTRIAL PARK VESSEL HAULOUT  
PHASE 1 IMPROVEMENTS  
CONCEPT NO. 1**

**PRELIMINARY ENGINEER'S ROM BUDGET  
Prepared By: PND Engineers, Inc. on June 14, 2023**

**BASE BID ITEMS**

Item	Item Description	Units	Quantity	Unit Cost	Amount	Sub-Totals
<b>GENERAL CONTRACT ITEMS</b>						
1505.1	Mobilization/Demobilization	LS	All Req'd	10%	\$473,700	
2702.1	Construction Surveying	LS	All Req'd	\$50,000	\$50,000	<b>\$523,700</b>
<b>150 TON HAULOUT PIER</b>						
2882.1	UHMW Pile Rubstrips	LS	All Req'd	\$200,000	\$200,000	
2886.1	Side Curbs	LS	All Req'd	\$200,000	\$200,000	
2896.1	Steel Pipe Fender Piles with HDPE Sleeves	EA	12	\$20,000	\$240,000	
2896.2	Steel Pipe Corner Fender Piles with HDPE Sleeves	EA	2	\$25,000	\$50,000	
2896.3	Vertical Steel Pipe Piles	EA	40	\$20,000	\$800,000	
2896.4	Battered Steel Pipe Piles	EA	8	\$24,000	\$192,000	
3305.1	Retaining Wall	CY	150	\$2,750	\$412,500	
3420.1	Precast Concrete Deck Panels	CY	190	\$2,000	\$380,000	
3601.1	Deck C.I.P Concrete and Grout	LS	All Req'd	\$200,000	\$200,000	
5120.1	Steel Pile Caps, Pile Chutes & Misc. Weldments	TON	25	\$8,000	\$200,000	
5120.2	Steel Pipe Bullrail	LS	All Req'd	\$75,000	\$75,000	<b>\$2,949,500</b>
<b>UPLANDS EXPANSION @ PIER</b>						
2203.1	Shot Rock Borrow	CY	11,000	\$50	\$550,000	
2204.1	Base Course Grading C-1	CY	750	\$100	\$75,000	
2205.1	Armor Rock	CY	3,200	\$100	\$320,000	<b>\$945,000</b>
<b>STORMWATER TREATMENT w/ MINIMUM YARD &amp; STORMWATER COLLECTION</b>						
2202.1	Rough Grade Existing Site to Drain Inlets	LS	All Req'd	\$50,000	\$50,000	
2501.1	Storm Drain Pipe	LF	700	\$125	\$87,500	
2502.1	Storm Drain Manholes & Water Quality Unit	LS	All Req'd	\$80,000	\$80,000	<b>\$217,500</b>
<b>PERMANENT CONCRETE WASHDOWN PAD</b>						
2401.1	Water Service to Wash Down Pad	LS	All Req'd	\$25,000	\$25,000	
2601.1	Sewer Service & Lift Station to Wash Down Pad	LS	All Req'd	\$125,000	\$125,000	
3301.2	Concrete Wash Down Pad w/ Hydronic Piping	EA	1	\$300,000	\$300,000	
11170.1	Washwater Pretreatment Facilities	LS	All Req'd	\$125,000	\$125,000	<b>\$575,000</b>
<b>ESTIMATED CONSTRUCTION BID PRICE</b>					<b>\$5,210,700</b>	<b>\$5,210,700</b>
<b>CONTINGENCY &amp; INDIRECT COSTS (35%)</b>					<b>\$1,823,745</b>	
<b>150T STANDARD MARINE BOAT HOIST</b>					<b>\$1,150,000</b>	
<b>TOTAL RECOMMENDED BASE BUDGET</b>					<b>\$8,184,445</b>	

**OPTIONAL or ADDITIVE ALTERNATE ITEMS**

<b>GENERAL CONTRACT ITEMS</b>						
1505.1	Mobilization/Demobilization	LS	All Req'd	10%	\$349,100	
2702.1	Construction Surveying	LS	All Req'd	\$5,000	\$5,000	<b>\$354,100</b>
<b>NORTH BOAT YARD SITE GRADING &amp; DRAINAGE</b>						
2060.1	Demolition & Disposal	LS	All Req'd	\$100,000	\$100,000	
2202.1	Excavation, 1' Avg Depth	CY	4,000	\$20	\$80,000	
2202.2	Subbase, 2' Thick	CY	8,000	\$50	\$400,000	
2204.1	Base Course Grading C-1, 8" Thick	CY	2,500	\$100	\$250,000	
2501.1	Storm Drain Pipe	LF	300	\$125	\$37,500	
2502.1	Storm Drain Manholes	LS	All Req'd	\$40,000	\$40,000	
2600.1	Misc. Utility Lid and Grate Adjustments	LS	All Req'd	\$50,000	\$50,000	<b>\$957,500</b>
<b>YARD TRANSPORTER</b>						
11200.2	40 T Yard Transporter, Shipping & Assembly	LS	All Req'd	\$250,000	\$250,000	<b>\$250,000</b>
<b>DECKOVER, 32X60</b>						
2886.2	Timber End Curb with Tire Fenders	LS	All Req'd	\$50,000	\$50,000	
2896.3	Vertical Steel Pipe Piles	EA	6	\$20,000	\$120,000	
2896.4	Battered Steel Pipe Piles	EA	2	\$24,000	\$48,000	
3420.1	Precast Concrete Deck Panels	CY	140	\$2,000	\$280,000	
3601.1	Deck C.I.P Concrete and Grout	LS	All Req'd	\$100,000	\$100,000	
5120.1	Steel Pile Caps, Pile Chutes & Misc. Weldments	TON	20	\$8,000	\$160,000	<b>\$758,000</b>
<b>QUEUING FLOAT &amp; GANGWAY</b>						
2894.1	5x80 Aluminum Gangway & Hinge Assembly	LS	All Req'd	\$125,000	\$125,000	
2895.1	10x80 Moorage Float	SF	800	\$300	\$240,000	
2896.3	Vertical Steel Pipe Piles	EA	3	\$18,000	\$54,000	
3420.1	Precast Concrete Deck Panels	CY	5	\$1,500	\$7,500	
3601.1	Deck C.I.P Concrete and Grout	LS	All Req'd	\$5,000	\$5,000	
5120.1	Steel Pile Cap & Misc. Weldments	TON	3	\$8,000	\$24,000	<b>\$455,500</b>
<b>UTILITY BUILDING</b>						
13000.1	Building, Hydronic Boiler, Restroom, Office	SF	960	\$750	\$720,000	
16000.1	Power to Utility Building	LS	All Req'd	\$50,000	\$50,000	<b>\$770,000</b>
<b>GRAVEL HAULOUT RAMP</b>						
2203.1	Shot Rock Borrow	CY	2,500	\$50	\$125,000	
2204.1	Base Course Grading C-1	CY	300	\$100	\$30,000	
2205.1	Armor Rock	CY	1,400	\$100	\$140,000	<b>\$295,000</b>
<b>ESTIMATED CONSTRUCTION BID PRICE</b>					<b>\$3,840,100</b>	<b>\$3,840,100</b>
<b>CONTINGENCY &amp; INDIRECT COSTS (35%)</b>					<b>\$1,344,035</b>	
<b>MARINE BOAT HOIST UPGRADES</b>					<b>\$350,000</b>	
<b>TOTAL RECOMMENDED ADD ALT BUDGET</b>					<b>\$5,534,135</b>	
<b>TOTAL RECOMMENDED BASE + ALL ADD ALT BUDGET</b>					<b>\$13,718,580</b>	

**GARY PAXTON INDUSTRIAL PARK VESSEL HAULOUT  
PHASE 1 IMPROVEMENTS  
CONCEPT NO. 2**

**PRELIMINARY ENGINEER'S ROM BUDGET  
Prepared By: PND Engineers, Inc. on June 14, 2023**

<b>BASE BID ITEMS</b>						
Item	Item Description	Units	Quantity	Unit Cost	Amount	Sub-Totals
<b>GENERAL CONTRACT ITEMS</b>						
1505.1	Mobilization/Demobilization	LS	All Req'd	10%	\$462,700	
2702.1	Construction Surveying	LS	All Req'd	\$50,000	\$50,000	<b>\$512,700</b>
<b>150 TON HAULOUT PIER</b>						
2882.1	UHMW Pile Rubstrips	LS	All Req'd	\$200,000	\$200,000	
2886.1	Side Curbs	LS	All Req'd	\$200,000	\$200,000	
2896.1	Steel Pipe Fender Piles with HDPE Sleeves	EA	12	\$20,000	\$240,000	
2896.2	Steel Pipe Corner Fender Piles with HDPE Sleeves	EA	2	\$25,000	\$50,000	
2896.3	Vertical Steel Pipe Piles	EA	40	\$20,000	\$800,000	
2896.4	Battered Steel Pipe Piles	EA	8	\$24,000	\$192,000	
3305.1	Retaining Wall	CY	150	\$2,750	\$412,500	
3420.1	Precast Concrete Deck Panels	CY	240	\$2,000	\$480,000	
3601.1	Deck C.I.P Concrete and Grout	LS	All Req'd	\$200,000	\$200,000	
5120.1	Steel Pile Caps, Pile Chutes & Misc. Weldments	TON	30	\$8,000	\$240,000	
5120.2	Steel Pipe Bullrail	LS	All Req'd	\$75,000	\$75,000	<b>\$3,089,500</b>
<b>UPLANDS EXPANSION @ PIER</b>						
2203.1	Shot Rock Borrow	CY	11,000	\$50	\$550,000	
2204.1	Base Course Grading C-1	CY	750	\$100	\$75,000	
2205.1	Armor Rock	CY	3,200	\$100	\$320,000	<b>\$945,000</b>
<b>STORMWATER TREATMENT w/ MINIMUM YARD &amp; STORMWATER COLLECTION</b>						
2202.1	Rough Grade Existing Site to Drain Inlets	LS	All Req'd	\$50,000	\$50,000	
2501.1	Storm Drain Pipe	LF	700	\$125	\$87,500	
2502.1	Storm Drain Manholes & Water Quality Unit	LS	All Req'd	\$80,000	\$80,000	<b>\$217,500</b>
<b>TEMPORARY WASHDOWN PAD</b>						
2401.1	Water Service to Wash Down Pad	LS	All Req'd	\$25,000	\$25,000	
2601.1	Sewer Service & Lift Station to Wash Down Pad	LS	All Req'd	\$125,000	\$125,000	
3301.2	Temporary Wash Down Curbed Membrane Liner	EA	1	\$50,000	\$50,000	
11170.1	Washwater Pretreatment Facilities	LS	All Req'd	\$125,000	\$125,000	<b>\$325,000</b>
<b>ESTIMATED CONSTRUCTION BID PRICE</b>					<b>\$5,089,700</b>	<b>\$5,089,700</b>
<b>CONTINGENCY &amp; INDIRECT COSTS (35%)</b>					<b>\$1,781,395</b>	
<b>150T STANDARD MARINE BOAT HOIST</b>					<b>\$1,150,000</b>	
<b>TOTAL RECOMMENDED BASE BUDGET</b>					<b>\$8,021,095</b>	
<b>OPTIONAL or ADDITIVE ALTERNATE ITEMS</b>						
<b>GENERAL CONTRACT ITEMS</b>						
1505.1	Mobilization/Demobilization	LS	All Req'd	10%	\$811,850	
2702.1	Construction Surveying	LS	All Req'd	\$5,000	\$5,000	<b>\$816,850</b>
<b>NORTH BOAT YARD SITE GRADING &amp; DRAINAGE</b>						
2060.1	Demolition & Disposal	LS	All Req'd	\$100,000	\$100,000	
2202.1	Excavation, 1' Avg Depth	CY	4,000	\$20	\$80,000	
2202.2	Subbase, 2' Thick	CY	8,000	\$50	\$400,000	
2204.1	Base Course Grading C-1, 8" Thick	CY	2,500	\$100	\$250,000	
2501.1	Storm Drain Pipe	LF	300	\$125	\$37,500	
2502.1	Storm Drain Manholes	LS	All Req'd	\$40,000	\$40,000	
2600.1	Misc. Utility Lid and Grate Adjustments	LS	All Req'd	\$50,000	\$50,000	<b>\$957,500</b>
<b>PERMANENT CONCRETE WASHDOWN PAD</b>						
3301.2	Concrete Wash Down Pad w/ Hydronic Piping	EA	1	\$300,000	\$300,000	<b>\$300,000</b>
<b>YARD TRANSPORTER</b>						
11200.2	40 T Yard Transporter, Shipping & Assembly	LS	All Req'd	\$250,000	\$250,000	<b>\$250,000</b>
<b>150T DECKOVER, 32X60</b>						
2886.2	Timber End Curb with Tire Fenders	LS	All Req'd	\$50,000	\$50,000	
2896.3	Vertical Steel Pipe Piles	EA	6	\$20,000	\$120,000	
2896.4	Battered Steel Pipe Piles	EA	2	\$24,000	\$48,000	
3420.1	Precast Concrete Deck Panels	CY	140	\$2,000	\$280,000	
3601.1	Deck C.I.P Concrete and Grout	LS	All Req'd	\$100,000	\$100,000	
5120.1	Steel Pile Caps, Pile Chutes & Misc. Weldments	TON	20	\$8,000	\$160,000	<b>\$758,000</b>
<b>300 TON HAULOUT PIER</b>						
2882.1	UHMW Pile Rubstrips	LS	All Req'd	\$200,000	\$200,000	
2886.1	Side Curbs	LS	All Req'd	\$200,000	\$200,000	
2896.1	Steel Pipe Fender Piles with HDPE Sleeves	EA	18	\$20,000	\$360,000	
2896.2	Steel Pipe Corner Fender Piles with HDPE Sleeves	EA	2	\$25,000	\$50,000	
2896.3	Vertical Steel Pipe Piles	EA	35	\$20,000	\$700,000	
2896.4	Battered Steel Pipe Piles	EA	8	\$24,000	\$192,000	
3305.1	Retaining Wall	CY	60	\$2,750	\$165,000	
3420.1	Precast Concrete Deck Panels	CY	230	\$2,000	\$460,000	
3601.1	Deck C.I.P Concrete and Grout	LS	All Req'd	\$200,000	\$200,000	
5120.1	Steel Pile Caps, Pile Chutes & Misc. Weldments	TON	30	\$8,000	\$240,000	
5120.2	Steel Pipe Bullrail	LS	All Req'd	\$75,000	\$75,000	<b>\$2,842,000</b>
<b>UPLANDS EXPANSION @ 300T PIER</b>						
2203.1	Shot Rock Borrow	CY	1,000	\$50	\$50,000	
2204.1	Base Course Grading C-1	CY	75	\$100	\$7,500	
2205.2	Relocate Armor Rock	CY	1,500	\$40	\$60,000	<b>\$117,500</b>
<b>300T DECKOVER, 40X100</b>						
2886.2	Timber End Curb with Tire Fenders	LS	All Req'd	\$50,000	\$50,000	
2896.3	Vertical Steel Pipe Piles	EA	10	\$20,000	\$200,000	
2896.4	Battered Steel Pipe Piles	EA	2	\$24,000	\$48,000	
3420.1	Precast Concrete Deck Panels	CY	300	\$2,000	\$600,000	
3601.1	Deck C.I.P Concrete and Grout	LS	All Req'd	\$150,000	\$150,000	
5120.1	Steel Pile Caps, Pile Chutes & Misc. Weldments	TON	40	\$8,000	\$320,000	<b>\$1,368,000</b>
<b>QUEUING FLOAT &amp; GANGWAY</b>						
2894.1	5x80 Aluminum Gangway & Hinge Assembly	LS	All Req'd	\$125,000	\$125,000	
2895.1	10x80 Moorage Float	SF	800	\$300	\$240,000	
2896.3	Vertical Steel Pipe Piles	EA	3	\$18,000	\$54,000	
3420.1	Precast Concrete Deck Panels	CY	5	\$1,500	\$7,500	
3601.1	Deck C.I.P Concrete and Grout	LS	All Req'd	\$5,000	\$5,000	
5120.1	Steel Pile Cap & Misc. Weldments	TON	3	\$8,000	\$24,000	<b>\$455,500</b>
<b>UTILITY BUILDING</b>						
13000.1	Building, Hydronic Boiler, Restroom, Office	SF	960	\$750	\$720,000	
16000.1	Power to Utility Building	LS	All Req'd	\$50,000	\$50,000	<b>\$770,000</b>
<b>GRAVEL HAULOUT RAMP</b>						
2203.1	Shot Rock Borrow	CY	2,500	\$50	\$125,000	
2204.1	Base Course Grading C-1	CY	300	\$100	\$30,000	
2205.1	Armor Rock	CY	1,400	\$100	\$140,000	<b>\$295,000</b>
<b>ESTIMATED CONSTRUCTION BID PRICE</b>					<b>\$8,930,350</b>	<b>\$8,930,350</b>
<b>CONTINGENCY &amp; INDIRECT COSTS (35%)</b>					<b>\$3,125,623</b>	
<b>MARINE BOAT HOIST UPGRADES</b>					<b>\$350,000</b>	
<b>TOTAL RECOMMENDED PROJECT BUDGET</b>					<b>\$12,405,973</b>	
<b>TOTAL RECOMMENDED BASE + ALL ADD ALT BUDGET</b>					<b>\$20,427,068</b>	

**GARY PAXTON INDUSTRIAL PARK VESSEL HAULOUT  
PHASE 1 IMPROVEMENTS  
CONCEPT NO. 3**

**PRELIMINARY ENGINEER'S ROM BUDGET  
Prepared By: PND Engineers, Inc. on June 14, 2023**

<b>BASE BID ITEMS</b>						
Item	Item Description	Units	Quantity	Unit Cost	Amount	Sub-Totals
<b>GENERAL CONTRACT ITEMS</b>						
1505.1	Mobilization/Demobilization	LS	All Req'd	10%	\$525,000	
2702.1	Construction Surveying	LS	All Req'd	\$50,000	\$50,000	<b>\$575,000</b>
<b>150 TON HAULOUT PIER</b>						
2882.1	UHMW Pile Rubstrips	LS	All Req'd	\$225,000	\$225,000	
2886.1	Side Curbs	LS	All Req'd	\$250,000	\$250,000	
2896.1	Steel Pipe Fender Piles with HDPE Sleeves	EA	14	\$20,000	\$280,000	
2896.2	Steel Pipe Corner Fender Piles with HDPE Sleeves	EA	2	\$25,000	\$50,000	
2896.3	Vertical Steel Pipe Piles	EA	48	\$20,000	\$960,000	
2896.4	Battered Steel Pipe Piles	EA	10	\$24,000	\$240,000	
3305.1	Retaining Wall	CY	150	\$2,750	\$412,500	
3420.1	Precast Concrete Deck Panels	CY	300	\$2,000	\$600,000	
3601.1	Deck C.I.P Concrete and Grout	LS	All Req'd	\$250,000	\$250,000	
5120.1	Steel Pile Caps, Pile Chutes & Misc. Weldments	TON	40	\$8,000	\$320,000	
5120.2	Steel Pipe Bullrail	LS	All Req'd	\$125,000	\$125,000	<b>\$3,712,500</b>
<b>UPLANDS EXPANSION @ PIER</b>						
2203.1	Shot Rock Borrow	CY	11,000	\$50	\$550,000	
2204.1	Base Course Grading C-1	CY	750	\$100	\$75,000	
2205.1	Armor Rock	CY	3,200	\$100	\$320,000	<b>\$945,000</b>
<b>STORMWATER TREATMENT w/ MINIMUM YARD &amp; STORMWATER COLLECTION</b>						
2202.1	Rough Grade Existing Site to Drain Inlets	LS	All Req'd	\$50,000	\$50,000	
2501.1	Storm Drain Pipe	LF	700	\$125	\$87,500	
2502.1	Storm Drain Manholes & Water Quality Unit	LS	All Req'd	\$80,000	\$80,000	<b>\$217,500</b>
<b>TEMPORARY WASHDOWN PAD</b>						
2401.1	Water Service to Wash Down Pad	LS	All Req'd	\$25,000	\$25,000	
2601.1	Sewer Service & Lift Station to Wash Down Pad	LS	All Req'd	\$125,000	\$125,000	
3301.2	Temporary Wash Down Curbed Membrane Liner	EA	1	\$50,000	\$50,000	
11170.1	Washwater Pretreatment Facilities	LS	All Req'd	\$125,000	\$125,000	<b>\$325,000</b>
<b>ESTIMATED CONSTRUCTION BID PRICE</b>					<b>\$5,775,000</b>	<b>\$5,775,000</b>
<b>CONTINGENCY &amp; INDIRECT COSTS (35%)</b>					<b>\$2,021,250</b>	
<b>REMAINING FUNDS AVAILABLE FOR MARINE BOAT HOIST (INSUFFICIENT)</b>					<b>\$390,000</b>	
<b>TOTAL RECOMMENDED BASE BUDGET</b>					<b>\$8,186,250</b>	
<b>OPTIONAL or ADDITIVE ALTERNATE ITEMS</b>						
<b>GENERAL CONTRACT ITEMS</b>						
1505.1	Mobilization/Demobilization	LS	All Req'd	10%	\$731,150	
2702.1	Construction Surveying	LS	All Req'd	\$5,000	\$5,000	<b>\$736,150</b>
<b>NORTH BOAT YARD SITE GRADING &amp; DRAINAGE</b>						
2060.1	Demolition & Disposal	LS	All Req'd	\$100,000	\$100,000	
2202.1	Excavation, 1' Avg Depth	CY	4,000	\$20	\$80,000	
2202.2	Subbase, 2' Thick	CY	8,000	\$50	\$400,000	
2204.1	Base Course Grading C-1, 8" Thick	CY	2,500	\$100	\$250,000	
2501.1	Storm Drain Pipe	LF	300	\$125	\$37,500	
2502.1	Storm Drain Manholes	LS	All Req'd	\$40,000	\$40,000	
2600.1	Misc. Utility Lid and Grate Adjustments	LS	All Req'd	\$50,000	\$50,000	<b>\$957,500</b>
<b>PERMANENT CONCRETE WASHDOWN PAD</b>						
3301.2	Concrete Wash Down Pad w/ Hydronic Piping	EA	1	\$300,000	\$300,000	<b>\$300,000</b>
<b>YARD TRANSPORTER</b>						
11200.2	40 T Yard Transporter, Shipping & Assembly	LS	All Req'd	\$250,000	\$250,000	<b>\$250,000</b>
<b>150 T DECKOVER, 32X100</b>						
2886.2	Timber End Curb with Tire Fenders	LS	All Req'd	\$50,000	\$50,000	
2896.3	Vertical Steel Pipe Piles	EA	10	\$20,000	\$200,000	
2896.4	Battered Steel Pipe Piles	EA	2	\$24,000	\$48,000	
3420.1	Precast Concrete Deck Panels	CY	230	\$2,000	\$460,000	
3601.1	Deck C.I.P Concrete and Grout	LS	All Req'd	\$150,000	\$150,000	
5120.1	Steel Pile Caps, Pile Chutes & Misc. Weldments	TON	30	\$8,000	\$240,000	<b>\$1,148,000</b>
<b>300 TON HAULOUT PIER</b>						
2882.1	UHMW Pile Rubstrips	LS	All Req'd	\$225,000	\$225,000	
2886.1	Side Curbs	LS	All Req'd	\$250,000	\$250,000	
2896.1	Steel Pipe Fender Piles with HDPE Sleeves	EA	14	\$20,000	\$280,000	
2896.2	Steel Pipe Corner Fender Piles with HDPE Sleeves	EA	2	\$25,000	\$50,000	
2896.3	Vertical Steel Pipe Piles	EA	23	\$20,000	\$460,000	
2896.4	Battered Steel Pipe Piles	EA	5	\$24,000	\$120,000	
3305.1	Retaining Wall	CY	60	\$2,750	\$165,000	
3420.1	Precast Concrete Deck Panels	CY	120	\$2,000	\$240,000	
3601.1	Deck C.I.P Concrete and Grout	LS	All Req'd	\$100,000	\$100,000	
5120.1	Steel Pile Caps, Pile Chutes & Misc. Weldments	TON	15	\$8,000	\$120,000	
5120.2	Steel Pipe Bullrail	LS	All Req'd	\$125,000	\$125,000	<b>\$2,135,000</b>
<b>UPLANDS EXPANSION @ 300T PIER</b>						
2203.1	Shot Rock Borrow	CY	1,000	\$50	\$50,000	
2204.1	Base Course Grading C-1	CY	75	\$100	\$7,500	
2205.2	Relocate Armor Rock	CY	1,500	\$40	\$60,000	<b>\$117,500</b>
<b>300T DECKOVER, 40X60</b>						
2886.2	Timber End Curb with Tire Fenders	LS	All Req'd	\$50,000	\$50,000	
2896.3	Vertical Steel Pipe Piles	EA	6	\$20,000	\$120,000	
2896.4	Battered Steel Pipe Piles	EA	2	\$24,000	\$48,000	
3420.1	Precast Concrete Deck Panels	CY	180	\$2,000	\$360,000	
3601.1	Deck C.I.P Concrete and Grout	LS	All Req'd	\$100,000	\$100,000	
5120.1	Steel Pile Caps, Pile Chutes & Misc. Weldments	TON	25	\$8,000	\$200,000	<b>\$878,000</b>
<b>QUEUING FLOAT &amp; GANGWAY</b>						
2894.1	5x80 Aluminum Gangway & Hinge Assembly	LS	All Req'd	\$125,000	\$125,000	
2895.1	10x80 Moorage Float	SF	800	\$300	\$240,000	
2896.3	Vertical Steel Pipe Piles	EA	3	\$18,000	\$54,000	
3420.1	Precast Concrete Deck Panels	CY	5	\$1,500	\$7,500	
3601.1	Deck C.I.P Concrete and Grout	LS	All Req'd	\$5,000	\$5,000	
5120.1	Steel Pile Cap & Misc. Weldments	TON	3	\$8,000	\$24,000	<b>\$455,500</b>
<b>UTILITY BUILDING</b>						
13000.1	Building, Hydronic Boiler, Restroom, Office	SF	960	\$750	\$720,000	
16000.1	Power to Utility Building	LS	All Req'd	\$50,000	\$50,000	<b>\$770,000</b>
<b>GRAVEL HAULOUT RAMP</b>						
2203.1	Shot Rock Borrow	CY	2,500	\$50	\$125,000	
2204.1	Base Course Grading C-1	CY	300	\$100	\$30,000	
2205.1	Armor Rock	CY	1,400	\$100	\$140,000	<b>\$295,000</b>
<b>ESTIMATED CONSTRUCTION BID PRICE</b>					<b>\$8,042,650</b>	<b>\$8,042,650</b>
<b>CONTINGENCY &amp; INDIRECT COSTS (35%)</b>					<b>\$2,814,928</b>	
<b>MARINE BOAT HOIST UPGRADES</b>					<b>\$1,110,000</b>	
<b>TOTAL RECOMMENDED PROJECT BUDGET</b>					<b>\$11,967,578</b>	
<b>TOTAL RECOMMENDED BASE + ALL ADD ALT BUDGET</b>					<b>\$20,153,828</b>	



**GARY PAXTON INDUSTRIAL PARK VESSEL HAULOUT**

**PHASE 1 IMPROVEMENTS**

**CONCEPT NO. 4**

**PRELIMINARY ENGINEER'S ROM BUDGET**

Prepared By: PND Engineers, Inc. on June 14, 2023

**BASE BID ITEMS**

Item	Item Description	Units	Quantity	Unit Cost	Amount	Sub-Totals
<b>GENERAL CONTRACT ITEMS</b>						
1505.1	Mobilization/Demobilization	LS	All Req'd	10%	\$473,850	
2702.1	Construction Surveying	LS	All Req'd	\$50,000	\$50,000	<b>\$523,850</b>
<b>150 TON HAULOUT PIER</b>						
2882.1	UHMW Pile Rubstrips	LS	All Req'd	\$200,000	\$200,000	
2886.1	Side Curbs	LS	All Req'd	\$200,000	\$200,000	
2896.1	Steel Pipe Fender Piles with HDPE Sleeves	EA	12	\$20,000	\$240,000	
2896.2	Steel Pipe Corner Fender Piles with HDPE Sleeves	EA	2	\$25,000	\$50,000	
2896.3	Vertical Steel Pipe Piles	EA	40	\$20,000	\$800,000	
2896.4	Battered Steel Pipe Piles	EA	8	\$24,000	\$192,000	
3305.1	Retaining Wall	CY	160	\$2,750	\$440,000	
3420.1	Precast Concrete Deck Panels	CY	270	\$2,000	\$540,000	
3601.1	Deck C.I.P Concrete and Grout	LS	All Req'd	\$200,000	\$200,000	
5120.1	Steel Pile Caps, Pile Chutes & Misc. Weldments	TON	33	\$8,000	\$264,000	
5120.2	Steel Pipe Bullrail	LS	All Req'd	\$75,000	\$75,000	<b>\$3,201,000</b>
<b>UPLANDS EXPANSION @ PIER</b>						
2203.1	Shot Rock Borrow	CY	11,000	\$50	\$550,000	
2204.1	Base Course Grading C-1	CY	750	\$100	\$75,000	
2205.1	Armor Rock	CY	3,200	\$100	\$320,000	<b>\$945,000</b>
<b>STORMWATER TREATMENT w/ MINIMUM YARD &amp; STORMWATER COLLECTION</b>						
2202.1	Rough Grade Existing Site to Drain Inlets	LS	All Req'd	\$50,000	\$50,000	
2501.1	Storm Drain Pipe	LF	700	\$125	\$87,500	
2502.1	Storm Drain Manholes & Water Quality Unit	LS	All Req'd	\$80,000	\$80,000	<b>\$217,500</b>
<b>TEMPORARY WASHDOWN PAD</b>						
2401.1	Water Service to Wash Down Pad	LS	All Req'd	\$25,000	\$25,000	
2601.1	Sewer Service & Lift Station to Wash Down Pad	LS	All Req'd	\$125,000	\$125,000	
3301.2	Temporary Wash Down Curbed Membrane Liner	EA	1	\$50,000	\$50,000	
11170.1	Washwater Pretreatment Facilities	LS	All Req'd	\$125,000	\$125,000	<b>\$325,000</b>
<b>ESTIMATED CONSTRUCTION BID PRICE</b>					<b>\$5,212,350</b>	<b>\$5,212,350</b>
<b>CONTINGENCY &amp; INDIRECT COSTS (35%)</b>					<b>\$1,824,323</b>	
<b>150T STANDARD MARINE BOAT HOIST</b>					<b>\$1,150,000</b>	
<b>TOTAL RECOMMENDED BASE BUDGET</b>					<b>\$8,186,673</b>	

**OPTIONAL or ADDITIVE ALTERNATE ITEMS**

<b>GENERAL CONTRACT ITEMS</b>						
1505.1	Mobilization/Demobilization	LS	All Req'd	10%	\$547,500	
2702.1	Construction Surveying	LS	All Req'd	\$5,000	\$5,000	<b>\$552,500</b>
<b>NORTH BOAT YARD SITE GRADING &amp; DRAINAGE</b>						
2060.1	Demolition & Disposal	LS	All Req'd	\$100,000	\$100,000	
2202.1	Excavation, 1' Avg Depth	CY	4,000	\$20	\$80,000	
2202.2	Subbase, 2' Thick	CY	8,000	\$50	\$400,000	
2204.1	Base Course Grading C-1, 8" Thick	CY	2,500	\$100	\$250,000	
2501.1	Storm Drain Pipe	LF	300	\$125	\$37,500	
2502.1	Storm Drain Manholes	LS	All Req'd	\$40,000	\$40,000	
2600.1	Misc. Utility Lid and Grate Adjustments	LS	All Req'd	\$50,000	\$50,000	<b>\$957,500</b>
<b>PERMANENT CONCRETE WASHDOWN PAD</b>						
3301.2	Concrete Wash Down Pad w/ Hydronic Piping	EA	1	\$300,000	\$300,000	<b>\$300,000</b>
<b>YARD TRANSPORTER</b>						
11200.2	40 T Yard Transporter, Shipping & Assembly	LS	All Req'd	\$250,000	\$250,000	<b>\$250,000</b>
<b>DECKOVER, 32X60</b>						
2886.2	Timber End Curb with Tire Fenders	LS	All Req'd	\$50,000	\$50,000	
2896.3	Vertical Steel Pipe Piles	EA	6	\$20,000	\$120,000	
2896.4	Battered Steel Pipe Piles	EA	2	\$24,000	\$48,000	
3420.1	Precast Concrete Deck Panels	CY	140	\$2,000	\$280,000	
3601.1	Deck C.I.P Concrete and Grout	LS	All Req'd	\$100,000	\$100,000	
5120.1	Steel Pile Caps, Pile Chutes & Misc. Weldments	TON	20	\$8,000	\$160,000	<b>\$758,000</b>
<b>300 TON HAULOUT PIER</b>						
2882.1	UHMW Pile Rubstrips	LS	All Req'd	\$150,000	\$150,000	
2886.1	Side Curbs	LS	All Req'd	\$150,000	\$150,000	
2896.1	Steel Pipe Fender Piles with HDPE Sleeves	EA	10	\$20,000	\$200,000	
2896.2	Steel Pipe Corner Fender Piles with HDPE Sleeves	EA	2	\$25,000	\$50,000	
2896.3	Vertical Steel Pipe Piles	EA	20	\$20,000	\$400,000	
2896.4	Battered Steel Pipe Piles	EA	6	\$24,000	\$144,000	
3420.1	Precast Concrete Deck Panels	CY	130	\$2,000	\$260,000	
3601.1	Deck C.I.P Concrete and Grout	LS	All Req'd	\$150,000	\$150,000	
5120.1	Steel Pile Caps, Pile Chutes & Misc. Weldments	TON	15	\$8,000	\$120,000	
5120.2	Steel Pipe Bullrail	LS	All Req'd	\$60,000	\$60,000	<b>\$1,684,000</b>
<b>QUEUING FLOAT &amp; GANGWAY</b>						
2894.1	5x80 Aluminum Gangway & Hinge Assembly	LS	All Req'd	\$125,000	\$125,000	
2895.1	10x80 Moorage Float	SF	800	\$300	\$240,000	
2896.3	Vertical Steel Pipe Piles	EA	3	\$18,000	\$54,000	
3420.1	Precast Concrete Deck Panels	CY	5	\$1,500	\$7,500	
3601.1	Deck C.I.P Concrete and Grout	LS	All Req'd	\$5,000	\$5,000	
5120.1	Steel Pile Cap & Misc. Weldments	TON	3	\$8,000	\$24,000	<b>\$455,500</b>
<b>UTILITY BUILDING</b>						
13000.1	Building, Hydronic Boiler, Restroom, Office	SF	960	\$750	\$720,000	
16000.1	Power to Utility Building	LS	All Req'd	\$50,000	\$50,000	<b>\$770,000</b>
<b>GRAVEL HAULOUT RAMP</b>						
2203.1	Shot Rock Borrow	CY	2,500	\$50	\$125,000	
2204.1	Base Course Grading C-1	CY	300	\$100	\$30,000	
2205.1	Armor Rock	CY	1,400	\$100	\$140,000	<b>\$295,000</b>
<b>ESTIMATED CONSTRUCTION BID PRICE</b>					<b>\$6,022,500</b>	<b>\$6,022,500</b>
<b>CONTINGENCY &amp; INDIRECT COSTS (35%)</b>					<b>\$2,107,875</b>	
<b>MARINE BOAT HOIST UPGRADES</b>					<b>\$350,000</b>	
<b>TOTAL RECOMMENDED PROJECT BUDGET</b>					<b>\$8,480,375</b>	
<b>TOTAL RECOMMENDED BASE + ALL ADD ALT BUDGET</b>					<b>\$16,667,048</b>	