

**Port of Brookings : OLD BC Fisheries Dock-Sheet Pile Wall Repair**

**Engineer's Estimate (Preliminary)  
2/20/2019**

<b>No.</b>	<b>Item</b>	<b>Unit</b>	<b>Quantity</b>	<b>Unit Price</b>	<b>Total Price</b>	<b>Remarks</b>
1	Final Project Design	LS	1	\$18,000	\$18,000	
2	Permitting	LS	1	\$15,000	\$15,000	Shared with Ice House, Pac-Choice, Fuel Docks
3	Contractor Procurement	LS	1	\$3,000	\$3,000	Shared with Ice House, Pac-Choice, Fuel Docks
4	Mobilization	LS	1	\$36,000	\$36,000	0
5	Erosion Control	LS	1	\$5,000	\$5,000	
6	Pollution Control Plan	LS	1	\$500	\$500	
7	Removal of Structures and Obstructions	LS	1	\$79,615	\$79,615	Anything man-made not removable as General Excavation, plus sloughed out fill and other soil outside limits of Gen. Exc.
8	Relocate Existing Outbuildings	LS	1	\$13,846	\$13,846	
9	General Excavation	Cy	2631	\$5	\$13,154	Excavation to bottom of working pad
10	Stone Embankment	Cy	865	\$50	\$43,269	Clean 1 to 4 inch backfill below water
11	Cement Treated Soil	Cy	1350	\$7	\$9,450	Deadman CTS & upper 2-foot section only
12	Portland Cement	Ton	112	\$150	\$16,823	5% of CTS
13	Nonwoven Filter Geotextile	Sy	415	\$1	\$415	
14	Shoring	Sy	42	\$400	\$16,615	
15	Structure Excavation	Cy	42	\$15	\$623	Additional excavation for deadman below Gen. Exc.
16	Selected General Backfill	Cy	928	\$8	\$7,422	Backfill behind deadmen and below CTS between sheet pile wall and deadman CTS, using on-site soils.
17	Furnish and Drive Steel Sheet Piling	Ft. <sup>2</sup>	8770	\$61	\$538,049	Steel cost & \$30,000 shipping plus 15% mark-up & installation @ \$2700/pile
18	Furnish and Install Steel Tieback Rods	Ft	2191	\$32	\$70,117	Includes couplers, sleeves, grout, plates, etc.
19	Reinforcement	Lbs.	5123	\$1	\$5,635	
20	Coated Reinforcement	Lbs.	3115	\$1	\$3,894	
21	General Structural Concrete, Class 3300	Cy	142	\$500	\$70,962	
22	Steel Channel Walers	Lbs.	10848	\$7	\$70,515	Includes waler, waler bolts, brackets, scaffolding, welding, plates, installation, etc..
23	Steel Ladders	Lbs.	485	\$10	\$4,846	All stainless steel.
24	Wharf Fenders	Ft.	357	\$20	\$7,131	
25	Aggregate Base	Cy	346	\$45	\$15,577	12" layer below CTS and sand fill.
26	Level 3, 1/2 Inch Dense MHMAC Mixture	Ton	87	\$150	\$12,981	
27	Remove and Reinstall Illumination	LS	1	\$4,154	\$4,154	
28	Furnish and Install Dockside Hoist	LS	1	\$15,000	\$15,000	
Subtotal of Biddable Items:					\$1,097,594	
Contingencies @ 10%:					\$109,800	
Construction Engineering @ 15%:					\$164,600	
<b>Construction Total:</b>					<b>\$1,371,994</b>	