

**Port of Brookings Harbor: Pac-Choice Dock-Sheet Pile Wall Repair**

**Engineer's Estimate (Preliminary)  
2/10/2019**

No.	Item	Unit	Quantity	Unit Price	Total Price	Remarks
1	Final Project Design	LS	1	\$18,000	\$18,000	
2	Permitting	LS	1	\$15,000	\$15,000	Shared with Ice House, Fuel Dock, Old BC Fisheries Dock
3	Contractor Procurement	LS	1	\$3,000	\$3,000	Shared with Ice House, Fuel Dock, Old BC Fisheries Dock
4	Mobilization	LS	1	\$36,000	\$36,000	Shared w Other Subprojects in Phase I
5	Erosion Control	LS	1	\$4,500	\$4,500	
6	Pollution Control Plan	LS	1	\$500	\$500	
7	Removal of Structures and Obstructions	LS	1	\$77,404	\$77,404	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	\$13,462	\$13,462	
9	General Excavation	Cy	2558	\$5	\$12,788	Excavation to bottom of working pad
10	Stone Embankment	Cy	841	\$50	\$42,067	Clean 1 to 4 inch backfill below water
11	Cement Treated Soil	Cy	1313	\$7	\$9,188	Deadman CTS & upper 2-foot section only
12	Portland Cement	Ton	109	\$150	\$16,356	5% of CTS
13	Nonwoven Filter Geotextile	Sy	404	\$1	\$404	
14	Shoring	Sy	40	\$400	\$16,154	
15	Structure Excavation	Cy	40	\$15	\$606	Additional excavation for deadman below Gen. Exc.
16	Selected General Backfill	Cy	902	\$8	\$7,215	Backfill behind deadmen and below CTS between sheet pile wall and deadman CTS, using on-site soils. Steel cost & \$28,000 shipping plus 15% mark-up & installation
17	Furnish and Drive Steel Sheet Piling	Ft. <sup>2</sup>	8527	\$70	\$596,858	@ \$2700/pile
18	Furnish and Install Steel Tieback Rods	Ft	2130	\$32	\$68,169	Includes couplers, sleeves, grout, plates, etc.
19	Reinforcement	Lbs.	4981	\$1	\$5,479	
20	Coated Reinforcement	Lbs.	3029	\$1	\$3,786	
21	General Structural Concrete, Class 3300	Cy	138	\$500	\$68,990	Includes waler, waler bolts, brackets, scaffolding, welding,
22	Steel Channel Walers	Lbs.	10547	\$7	\$68,556	plates, installation, etc..
23	Steel Ladders	Lbs.	471	\$10	\$4,712	All stainless steel.
24	Wharf Fenders	Ft.	347	\$20	\$6,933	
25	Aggregate Base	Cy	337	\$45	\$15,144	12" layer below CTS and sand fill.
26	Level 3, 1/2 Inch Dense MHMAC Mixture	Ton	84	\$150	\$12,620	
27	Remove and Reinstall Illumination	LS	1	\$4,038	\$4,038	
28	Furnish and Install Dockside Hoist	LS	1	\$10,096	\$10,096	
Subtotal of Biddable Items:					\$1,138,025	
Contingencies @ 10%:					\$113,800	
Construction Engineering @ 15%:					\$170,700	
<b>Construction Total:</b>					<b>\$1,422,525</b>	