

Vashon Parks District
Tramp Harbor Pier
New Pier



30% Engineer's Opinion of Probable Construction Cost - 9' Wide Trestle

May 5, 2023

No.	Item	Quantity	Unit	Unit Cost	Total Item Cost in 2023\$	Total Rollup Cost in 2023\$	Percentage of total
1.00	Mobilization and Demobilization (10% of Subtotal Cost)					\$158,000	9.1%
1.01	Administrative, pre-submittals, survey, close out, etc. (4% of Subtotal Cost)	1	LS	\$63,000	\$63,000		3.6%
1.02	Equipment and labor mobilization and demobilization. (6% of Subtotal Cost)	1	LS	\$95,000	\$95,000		5.5%
2.00	Pier Demolition					\$287,000	16.5%
2.01	Timber Decking Demolition and Disposal	5,894	SF	\$10	\$59,000		3.4%
2.02	Timber Railing Demolition and Disposal	857	LF	\$10	\$8,570		0.5%
2.03	Timber Pile Cap Demolition and Disposal	23	TON	\$980	\$22,540		1.3%
2.04	Timber Pile Extraction and Disposal	103	EA	\$1,600	\$164,800		9.5%
2.05	Timber Pile Stub Extraction and Disposal	20	EA	\$1,600	\$32,000		1.8%
3.00	Pier Construction and Repair					\$1,294,000	74.4%
3.01	Furnish Coated Steel Grating	2,775	SF	\$70	\$194,250		11.2%
3.02	Install Coated Steel Grating	2,775	SF	\$20	\$55,500		3.2%
3.03	Furnish and Install Pier Railing	735	LF	\$80	\$58,800		3.4%
3.04	Furnish 20" Octagonal Precast Concrete Pile	2,080	LF	\$120	\$249,600		14.4%
3.05	Drive Precast Concrete Pile	32	EA	\$5,000	\$160,000		9.2%
3.06	Concrete Pile Build-Up	2	EA	\$2,500	\$5,000		0.3%
3.07	CIP Pile Caps	97	CY	\$2,600	\$252,200		14.5%
3.08	Furnish and Install Precast Edge Beams	661	LF	\$250	\$165,250		9.5%
3.09	Furnish and Install Dry Fire Line	205	LF	\$200	\$41,000		2.4%
3.10	Furnish and Install Safety Ladder	2	EA	\$6,000	\$12,000		0.7%
3.11	Sheet Pile Abutment Repair/Replace Allowance	1	LS	\$100,000	\$100,000		5.8%
	Subtotal					\$1,739,000	61.5%
	WSST (8.7%)	8.7%				\$151,293	5.3%
	Design Cost					\$448,570	15.9%
	Permitting Fees					\$17,000	0.6%
	Permit Mitigation Costs (See Project Risk Register for Details)						0.0%
	Design and Construction Contingency (25%)	25%				\$472,573	16.7%
	Total (2023\$)					\$2,828,436	100.0%