MEMORANDUM					
То:	Jay Sweeney, Chief Finance and Administrative Officer				
From:	Cliff Richter, P.E., Municipal Engineer Clus Stephen Weatherman P.E. Senior Engineer				
Date:	September 5, 2018				
Subject:	Bond Ordinance Crescent Harbor Float Replacement – Phase I				

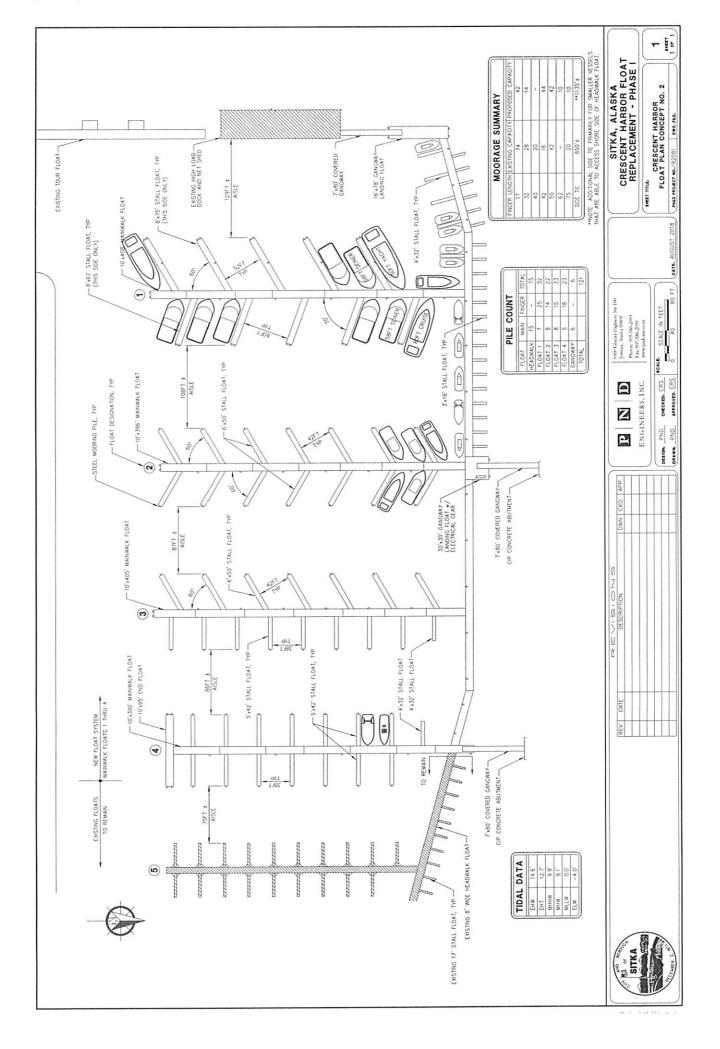
Project Current Status

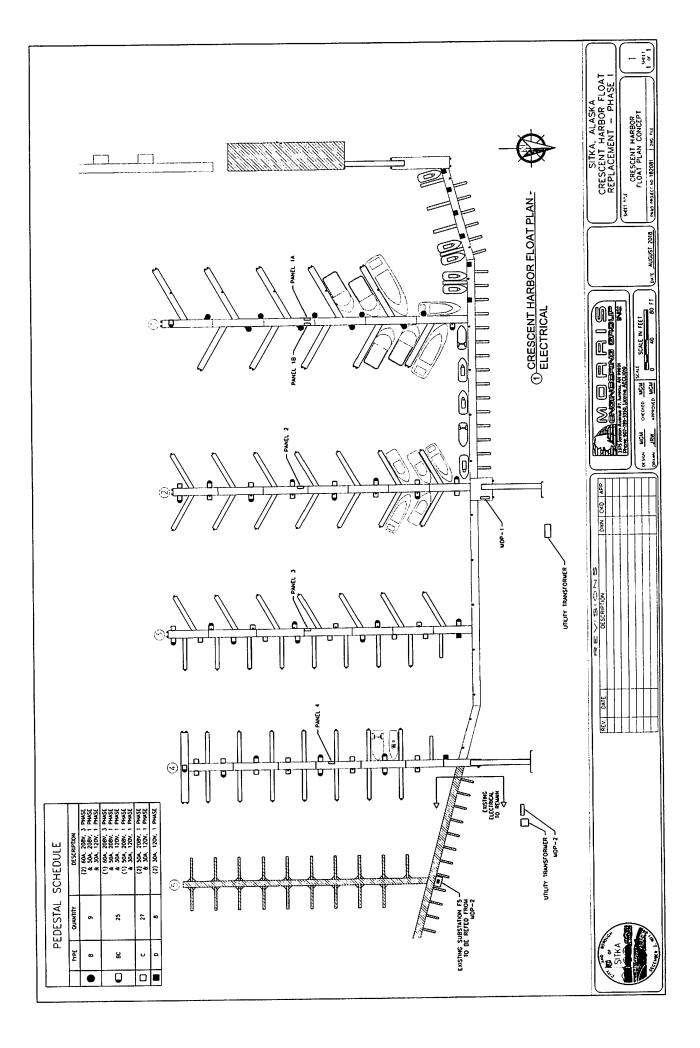
Public works entered into a contract with PND Engineering to determine the feasibility of the 2012 Harbor Master Plan improvements planned for Crescent Harbor. The report evaluated the harbor and planned improvements. The findings are:

- The replacement of the harbor is required due to the existing floats and walk down ramps reaching the end of their useful life.
- The new layout replaces the existing with a layout similar to existing.
- The existing small finger floats between the walk down ramps are to be deleted because access under the ramps are limited to high tide only.
- The required ADA walk down ramps can be added to the project without loss of moorage slips.
- A robust electrical system is planned to meet current and future needs.
- The project includes domestic water, fire protection, lighting and a sewer pump out station.
- The project report by PND Engineering sets the project budget at \$13,000,000 per the 2012 Harbor Master Plan including a \$5,000,000 State of Alaska Harbor Matching Grant and \$8,000,000 in bonds for the project.

The proposed schedule for construction is to begin in fall 2019 and complete the project in spring 2020.









CRESCENT HARBOR FLOAT REPLACEMENT ROM BUDGET ESTIMATE August 31, 2018



ASE BI	Item Description	Units	Quantity	Unit Cost	Amount	
1505.1	Mobilization	LS	All Reqd	\$817,580	\$817,580	
2060.1	Demolition and Disposal	LS	All Reqd	\$450,000	\$450,000	
2410.1	Wastewater Pumpout System - Salvage & Replace	LS	All Reqd	\$30,000	\$30,000	
2601.1	Combined Potable Water and Fire Suppression System	LS	All Reqd	\$425,000	\$425,000	
2702.1	Construction Surveying	LS	All Reqd	\$50,000	\$50,000	
2718.1	Signage and Assemblics	LS	All Reqd	\$4,000	\$4,000	
2894.1	7' x 80' Covered Gangway	E.A	3	\$125,000	\$375,000	
2895.1	Headwalk Float, 10' x 788'	LS	All Reqd	\$906,200	\$906,200	
2895.2	Mainwalk Float 1, 10' x 408'	LS	All Reqd	\$469,200	\$469,200	
2895.3	Mainwalk Float 2, 10' x 396'	LS	All Reqd	\$455,400	\$455,400	
2895.4	Mainwalk Float 3, 10 x 405'	LS	All Reqd	\$465,750	\$465,750	
2895.5	Mainwalk Float 4, 10' x 390'	LS	All Reqd	\$448,500	\$448,500	
2895.5	3' x 18' Finger Float	EA	21	\$10,000	\$210,000	
	0	EA	7	\$18,000	\$126,000	
2895.7	4' x 32' Finger Float	EA	22	\$32,000	\$704,000	
2895.8	6' x 42' Finger Float	EA	21	\$37,000	\$777,000	
2895.9	6' x 50' Finger Float	EA	5	\$57,000	\$285,000	
	8' x 62' Finger Float	EA	5	\$70,000	\$350,000	
2895.11	8' x 75' Finger Float	EA	1	\$110,000	\$110,000	
2895.12	10' x 95' Tee Float	LS	All Reqd	\$108,000	\$108,000	
2895.13	30' x 30' Gangway Landing Float	LS	All Reqd	\$145,000	\$145,000	
2895.14	16' x 78' Gangway Landing Float		89	\$7,800	\$694,200	
2896.1	Steel Pipe Pile, 12 3/4" x 0.500"	E.A	33	\$9,500	\$313,500	
2896.2	Steel Pipe Pile, 16" x 0.500"	EA			\$300,000	
2896.3	Pile Socket	EA	40	\$7,500 \$400	\$20,000	
2897.1	Supply Floatation Billet	EA	50		\$25,000	
2897.2	Install Floatation Billet	EA	50	\$500	\$14,400	
2899.1	Life Ring Cabinet and Base	EA	12	\$1,200	\$14,400	
2899.2	Fire Extinguisher Cabinet and Base	E.A	12	\$1,200	\$19,200	
2899.3	Hose Mount and Base	EA	24	\$800		
3305.1	Concrete Gangway Abutment - Float 2	LS	All Reqd	\$75,000	\$75,000	
3305.2	Concrete Gangway Abutment - Float 4	LS	All Reqd	\$75,000	\$75,000	
16000.1	Electrical System - (Option 2)	LS	All Reqd	\$1,690,000	\$1,690,000	
16052.1	Electrical Support Assemblies	LS	All Reqd	\$85,000	\$85,000	
	ESTIMATED CONSTRUCTION BID PRICE	\$11,037,330				
	CONTINGENCY (6%)			20	\$662,240	
					\$11,699,570	
	SURVEYING & GEOTECH RESEARCH				\$50,000	
	PERMITTING, FINAL DESIGN, CONTRACT D			E	\$794,688	
	CONTRACT ADMINISTRATION & CONSTRUCT	TION INS	PECTION		\$375,269	
	MARINE MAMMAL OBSERVATIONS			(3	\$75,000	
	TOTAL RECOMMENDED PROJECT BUDGET				\$12,994,527	\$12,994,52
ADDITI	VE ALTERNATE A - Pile Anodes					
Item	Item Description	Units	Quantity	Unit Cost	Amount	
1505.1A	Mobilization	LS	All Reqd	\$9,615	\$9,615	
2996.1A	Supply Pile Anode, Type I	EA	66	\$550	\$36,300	
	Supply Pile Anode, Type II	EA	178	\$300 \$400	\$53,400 \$97,600	
	Install Pile Anode, All Types	EA LS	244 All Reqd	\$400 \$5,000	\$5,000	
2996.4A	Pile Anode Continuity Testing & Potential Readings LS All Reqd \$5,000 ESTIMATED CONSTRUCTION BID PRICE CONTINGENCY (4%)				\$201,915	
					\$8,077	
CONTRACT ADMINISTRATION & CONSTRUCTION INSPECTION					\$10,500	
	TOTAL RECOMMENDED PROJECT BUDGET	\$220,491	\$13,215,0			
ADDITI	VE ALTERNATE B - XXX					
Item	Item Description	Units	Quantity	Unit Cost	Amount	
1505.1B	Mobilization	LS	All Reqd	5%	\$0	

1505.1B	Mobilization	LS	All Reqd	5%	\$0	
1505.10	Moonization	LS	All Reqd	\$0	\$0	
	ESTIMATED CONSTRUCTION BID PRICE				\$0	
	CONTINGENCY (10%)				\$0	
	CONTRACT ADMINISTRATION & CONSTRUCTION INSPECTION					
	TOTAL RECOMMENDED PROJECT BUDGET				\$0	\$13,215,018

Notes: No upland improvements included with exception of gangway abutments.