| 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 | | | | |

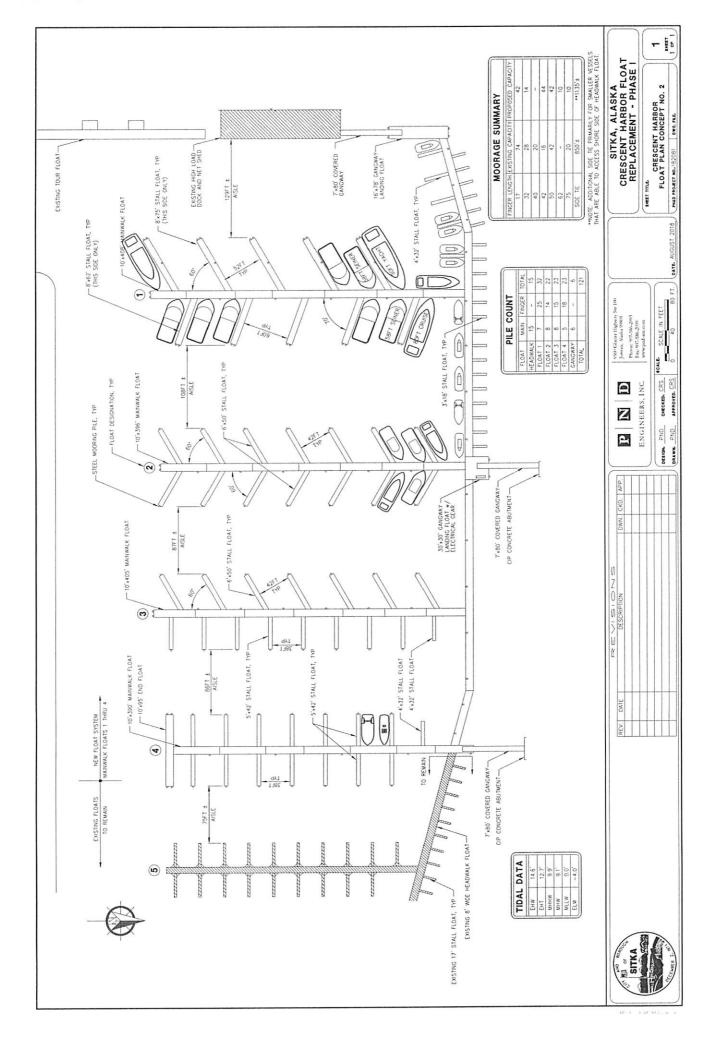
Project Current Status

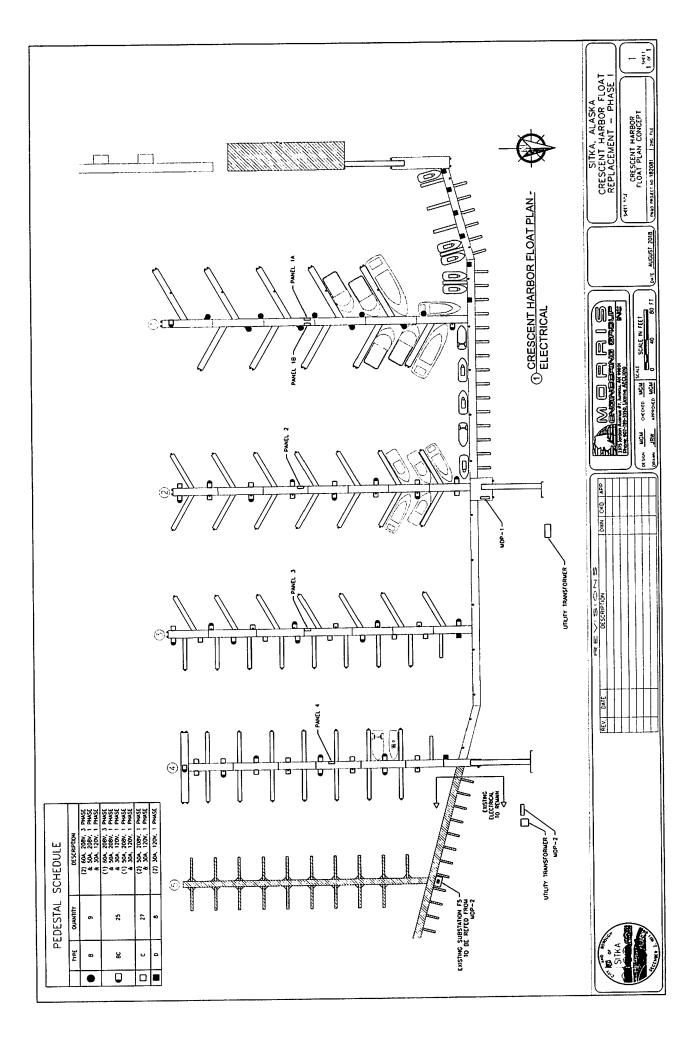
Public works entered into a contract with PND Engineering to determine the feasibility of the 2012 Harbor Master Plan improvements planned for Crescent Harbor. The report evaluated the harbor and planned improvements. The findings are:

- 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.