

SKAGWAY BOAT HARBOR IMPROVEMENTS PROJECT PHASE II Public Meeting

July 11, 2013 6:00 PM AB Hall



INTRODUCTION

Port and Harbors

Matt O'Boyle – Harbormaster/ MOS Point of Contact

PND Engineers, Inc. (PND)

- Dick Somerville, P.E. Contract Manager/Principal in Charge
- John DeMuth, P.E. Design Project Manager
- Kate Mickelson, CEP-IT –Permitting/Public Involvement

Morris Engineering Group (MEG)

Mark Morris, P.E. – Electrical Engineering

Corvus Design

Chris Mertl, ASLA – Landscape Architecture

TONIGHT'S OBJECTIVES

- Review 2011 Master Plan Preferred Alternatives
- Review Phase I Elements Completed to Date
- Explain Proposed Phase II Project Elements and Objectives
- Review Master Plan Update Concept No. 1
- Review Project Budget for Concept No. 1
- Provide you the Opportunity to Comment and to Meet Individually with Design Team Members
- We encourage your input to make sure we design this right for the community!

2011 MASTER PLAN PREFERRED ALTERNATIVE



REVIEW OF PHASE I ELEMENTS



PHASE I PROJECT ELEMENTS

- Demolition of Existing Moorage Facility and Seaplane Float
- Partial Dredging of the Harbor Basin
- Replacement of Moorage Floats A, B, C, D, and E
- New Gangways
- Utilized Existing Electrical Components, New All-Season Water Risers, New Lighting
- Single Lane Boat Launch Ramp with Timber Boarding Float

PHASE II PROJECT GOALS BASED ON INITIAL MTGS W/ MOS

- Complete Dredging for Additional Moorage Floats
- Construct Sheet Pile Wall on West Side of Harbor to Increase Size of Moorage Basin
- Integration of a Seawalk Leading to the Wave Barrier
- Consider North Wall or Armored Slope
- Install Float Extensions, and New Float F with 24' and 30' Fingers to Increase Moorage Capacity
- Construct Fuel & Work Float on West Side of Harbor
- Provide a Drive Down Facility with Turnaround Float & Loading Crane
- Construct Second Boat Launch Lane

PHASE II CONCEPT NO. 1 MASTER PLAN





DREDGING

- Existing Basin to be Dredged to -18 MLLW between Floats and West Retaining Wall
- Existing Basin to be Dredged to 14 MLLW on North Side of Harbor (between Harbor Office and New Boat Launch Ramp)
- Armor Rock Slope Protection will be placed on dredge slopes

MARINE SEAWALL

- A 525 LF Sheet Pile Bulkhead along the west side of the harbor will retain fill and allow for the integration of a new combination Fuel Float and Work Float on the West Side of the harbor
- A Seawalk leading to the Wave Barrier will be designed at the top of the bulkhead. The Seawalk will create positive connection along the harbor and will tie into ADOT&PF's Pedestrian Gateway project.



MOORAGE EXPANSION

A Float:

- Relocate 12' x 190' Float
- 18' x 53' Mainwalk Addition
- (2) 4' x 36' Stall Floats
- **B** Float:
 - Relocate 10' x 82' Tee Float
 - (2) 5' x 42' Stall Floats
 - (1) 4' x 30' Stall Float

MOORAGE EXPANSION (CONT.)

C Float:

- Relocated 10' x 36' End Float
- Mainwalk Float Extension
- (3) 4' x 36' Stall Floats
- D Float:
 - No Changes
- E Float:
 - (6) 4' x 24' Stall Floats
- **F** Float:
 - 12' x 96' Headwalk Float
 - 10' x 170' Mainwalk Float
 - (10) 4' x 30' Stall Floats

MOORAGE SUMMARY

MOORA	GE SU	MMARY
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Stall Lengths	Phase 1	Phase 2	Total
24' Stalls	22	12	34
30' Stalls	29	22	51
36' Stalls	29	8	37
40' Stalls	16	0	16
42' Stalls	8	2	10
Side Tie/Linear Moorage	1,389 FT	206 FT	1,595 FT

DRIVE DOWN FLOAT (DDF)

- Located on North Side of Harbor, Parallel to Boat Ramp and Adjacent to West Seawall
- Access from Boat Yard
- 12' x 144' Light Duty Transfer Bridge
- 20' x 20' Bridge Support Float
- 64' x 80' Drive Down Float
- Will Provide Access to Fuel Float/Work Float
- 2 Ton Hydraulic Crane



DDF DESIGN CRITERIA

- Vehicle Loading (Bridge & DDF)
 - H10, 10 Ton Flat Bed Truck
- Hydraulic Crane
 - Capacity and Reach Requirements: 2 Tons @ 20'
- <u>Utilities TBD</u>
 - Water & Fire Suppression
 - Power & Lighting
 - Sewer Pumpout
 - Communications
- Security & Safety
 - Surveillance Cameras
 - Security Gates



EXAMPLE DDF PROJECT KAKE INTERMODAL TRANSIT FACILITY



- 12' x 144' Light Duty Transfer Bridge (H10 = 20,000 lbs)
- Submerged Bridge Support Float
- 180' x 32' wide Drive-Down Float
- Future "bolt-on" Seaplane Float

EXAMPLE DDF PROJECT AUKE BAY LOADING FACILITY - JUNEAU

- 20' x 200' Approach Dock
- 18' x 145' Heavy Duty Transfer Bridge (H20 = 72,000 lbs)
- 50' x 200' Drive Down
 Float with two (2)Float Mounted Cranes
- Concrete loading ramp with boarding float
- Electrical, Lighting, Control Systems, and Security Cameras







EXAMPLE DDF PROJECT CARL E. MOSES HARBOR - UNALASKA

- 64' x 74' Drive Down Float
- 12' x 96' Light Duty Vehicle Transfer Bridge (H10 = 20,000 lbs)
- One Float Mounted Crane

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FUEL/WORK FLOAT

- I6' x 275' Fuel/ Work Float
- Following applicable codes
- Relocate existing fuel tanks to uplands on north side of basin
- Access via DDF
- Security Gate onto Float



2-LANE BOAT LAUNCH RAMP



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- Add second concrete launch ramp
 - V-Groove Concrete Ramp
 - Rumble edge
 - Concrete Apron
 - Internal Pile Hoops for Mooring Boats on Both Sides of Float







SKAGWAY PROMENADE EAST SIDE OF HARBOR @ TOP OF WALL









UPLAND ENHANCEMENT EXAMPLE PROJECTS



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LIGHTING

Low Glare is Key Light Source LED or HID Light Levels





EXAMPLE PROJECT PORTAGE COVE HARBOR - HAINES



POWER

 Southeast Pedestal Design

 (You folks have it!)

 Voltage, Current, and Phase Configuration



PROTECTING YOUR INVESTMENT

316L Stainless Enclosures NEMA 4X Protect the Cables (Conduit, Cable Tray and Cord Grips) Exterior Hardware (Stainless Steel or Hot **Dipped Galvanized**



PRELIMINARY PROJECT BUDGET

SKAGWAY HARBOR IMPROVEMENTS – PHASE II PRELIMINARY BUDGET

General Contract Requirements	\$1.31 M
West Sheet Pile Bulkhead & Harbor Dredging	\$6.55 M
Moorage Floats A-F	\$1.63 M
Drive Down Float, Work & Fuel Float	\$3.82 M
Boat Launch Ramp - Second Lane	\$0.43 M
Seawalk – Broadway to Wave Barrier	\$0.82 M
Estimated Construction Bid Price	\$14.56 M
Project Contingency (10%)	\$1.46 M
Indirect Costs (Survey, Geotech, Permits, Design, CA & Inspection)	\$2.04 M
Total Recommended Project Budget – Concept No. 1	\$18.21 M

PROJECT TIMELINE

- First Public Meeting Tonight
- Refinement of Concepts July/August
- Second Public Meeting Selection of Preferred Alternative – August/September
- **Design Phase Begin this Fall**
- Environmental Permitting Fall/Winter 2013
- Final Design Completion Summer 2014
- Construction Phase Fall 2014 (Depends on Funding Availability

NEXT STEPS

- Community input on project scope, operational criteria, and design refinement.
 <u>Please give your input and suggestions tonight</u> or mail them to us.
- Municipality of Skagway's selection of preferred alternative.
- PND to finalize concept and design budget based on Municipality of Skagway's direction.

QUESTIONS?

Thank you for attending!

We are happy to answer questions and welcome your comments. We encourage you to fill out the comment form you received here tonight and leave it in the designated Comment Box.

Questions and concerns raised as a result of this meeting will be addressed by the Design Team prior to approval of the final design elements by the Municipality of Skagway.

CONTACT INFORMATION

We are requesting your comments by August 1, 2013. Thank you!

CONTACT:

Ms. Kate Mickelson, Staff Engineer PND Engineers, Inc. 9360 Glacier Highway, Suite 100 Juneau, Alaska 99801 P. 907.586.2093 F. 907.586.2099 Email: kmickelson@pndengineers.com