

Agency: Commerce, Community and Economic Development**Grants to Municipalities (AS 37.05.315)****Grant Recipient: Petersburg****Federal Tax ID: 92-6000142****Project Title:****Project Type: New Construction and Land Acquisition**

Petersburg - Commercial Vehicle Drive Down

State Funding Requested: \$1,810,000**House District: 2 / A**

Future Funding May Be Requested

Brief Project Description:

Project will fund design and construction of a dock and vehicle drive-down facility in Petersburg.

Funding Plan:

Total Project Cost:	\$12,000,000
Funding Already Secured:	(\$3,390,000)
FY2012 State Funding Request:	<u>(\$1,810,000)</u>
Project Deficit:	\$6,800,000

*Funding Details:**State Funding - FY10 \$3,390,000***Detailed Project Description and Justification:**

This project would provide a new multi-use staging area and commercial dock with a vehicle drive-down to a floating structure.

Petersburg is homeport to one of Alaska's most productive commercial fishing fleets and increasingly becoming a popular destination among cruiseship and recreational marine vessels. The infrastructure necessary to support these vessels is severely limited. If public financing is not provided to keep moving forward with plans for modern dock infrastructure, the tourism industry and boat owners may relocate to other locations where marine service infrastructure is better.

The project involves construction of a sheet pile bulkhead with earthen fill for structural backfill, staging and parking areas with hydraulic cranes; demolition of an existing timber fuel trestle; dredging for a vessel turning basin; a light duty vehicle transfer bridge; a vehicle accessible float; finger and transient vessel floats.

If we are successful with this year's funding request, we believe construction can begin in FY12. The funds will be used for engineering, research, permitting, surveys, bidding, contract management and construction. Of the above mentioned facilities, we expect to begin with demolition of the existing timber fuel trestle and dredging for a vessel turning basin.

This project is consistent with concept plans presented in the 1995 Petersburg Harbor Facilities Plan and a 2005 Schematic Design Submittal by PND Engineers, Inc. This dock would be located in Wrangell Narrows behind the Community Cold Storage Facility in an area where a Marine Fueling Dock previously existed. The objective is to provide dock infrastructure equivalent to that available elsewhere in Southeast Alaska for and to provide Petersburg with modern and functional facilities for its existing commercial and recreational marine industries.

The project is thoroughly studied and is a top community priority.

Project Timeline:

Preliminary Engineering Plans and Permitting (2011); Final Engineering Plans and Specifications (2012); Construction (2013)

Entity Responsible for the Ongoing Operation and Maintenance of this Project:

City of Petersburg

Grant Recipient Contact Information:

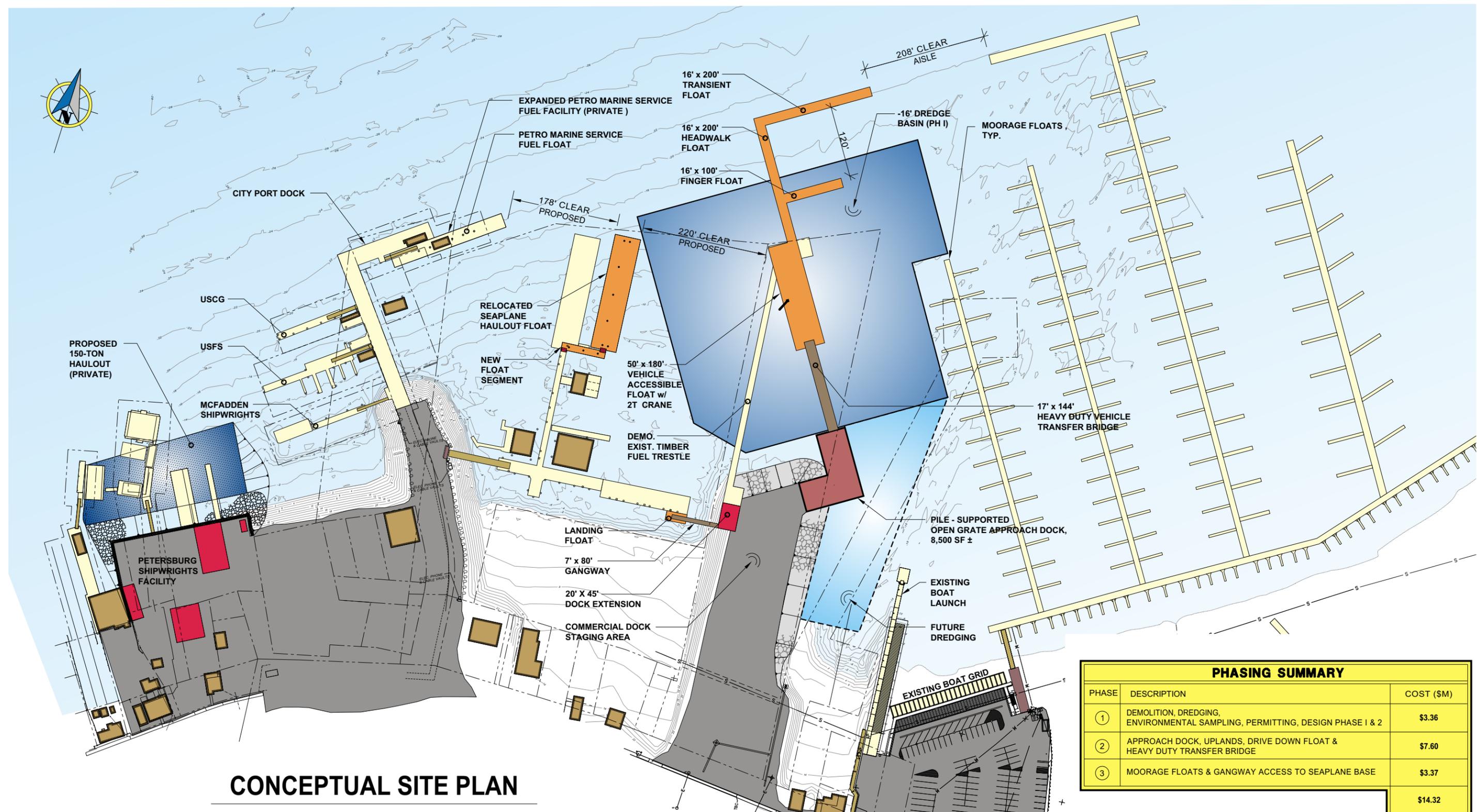
Name: Scott Hahn
Title: City Manager
Address: P.O. Box 329
Petersburg, Alaska 99833
Phone Number: (907)772-4519
Email: scott.hahn@ci.petersburg.ak.us

Has this project been through a public review process at the local level and is it a community priority? Yes No

DRIVE DOWN FACILITY - OPTION NO. 3A
Preliminary Budget - March 31, 2011
PND Engineers, Inc.
Project No. 092072.01

Item	Item Description	Units	Quantity	Unit Cost	Amount	Item Total	Phase 1	Phase 2	Item Total
General Contract Requirements									
1	Mobilization/Demobilization	LS	All Reqd	8%	\$442,200		\$106,400	\$335,800	
2	Construction Survey Measurement	LS	All Reqd	\$40,000	\$40,000	\$482,200	\$20,000	\$20,000	\$482,200
Dock Demolition and Confined Disposal Facility									
3	Demolish Fuel Dock & Float	LS	All Reqd	\$300,000	\$300,000		\$300,000		
4	Type V Classified Fill (Dike & Cover)	CY	52,000	\$15	\$780,000		\$780,000		
5	Armor Rock Slope Protection	CY	6,000	\$30	\$180,000		\$180,000		
6	Geotextile Fabric	SY	10,000	\$5	\$50,000	\$1,310,000	\$50,000		\$1,310,000
Upland Improvements									
7	Type II-A Classified Fill	CY	1,500	\$25	\$37,500			\$37,500	
8	Water Service and Fire Hydrants	LS	All Reqd	\$75,000	\$75,000			\$75,000	
9	Drainage Improvements	LS	All Reqd	\$60,000	\$60,000			\$60,000	
10	Signage	LS	All Reqd	\$5,000	\$5,000			\$5,000	
11	Power & Lighting in Uplands	LS	All Reqd	\$100,000	\$100,000	\$277,500		\$100,000	\$277,500
Approach Dock, Transfer Bridge & Drive Down Float									
12	Approach Dock	SF	960	\$250	\$240,000			\$240,000	
13	H 20 Transfer Bridge 17' x 140'	LS	All Reqd	\$750,000	\$750,000			\$750,000	
14	Bridge Support Float	LS	All Reqd	\$150,000	\$150,000			\$150,000	
15	Bridge Abutment	LS	All Reqd	\$100,000	\$100,000			\$100,000	
16	Drive Down Float, 64x120 w/ 16x60 Transition	SF	8,640	\$250	\$2,160,000			\$2,160,000	
17	DDF Float Mooring Piles	EA	12	\$20,000	\$240,000			\$240,000	
18	Float Mooring Pile Frames	LS	All Reqd	\$100,000	\$100,000			\$100,000	
19	Hydraulic Crane Base	EA	1	\$10,000	\$10,000			\$10,000	
20	Power & Lighting on Dock & Drive Down Float	LS	All Reqd	\$150,000	\$150,000	\$3,900,000		\$150,000	\$3,900,000
ESTIMATED CONSTRUCTION BID PRICE					\$5,969,700	\$5,969,700	\$1,436,400	\$4,533,300	\$5,969,700
CONTINGENCY (10%)					\$596,970	\$596,970	\$143,640	\$453,330	\$596,970
GEOTECHNICAL INVESTIGATION					\$200,000	\$200,000	\$200,000	\$0	\$200,000
ENVIRONMENTAL PERMITS					\$100,000	\$100,000	\$100,000	\$0	\$100,000
COMPENSATORY MITIGATION					\$100,000	\$100,000	\$100,000	\$0	\$100,000
FINAL ENGINEERING DESIGN & BID READY CONTRACT DOCUMENTS (9%)					\$537,273	\$537,273	\$537,273	\$0	\$537,273
CONTRACT ADMIN.& CONSTRUCTION INSPECTION (8%)					\$477,576	\$477,576	\$114,912	\$362,664	\$477,576
TOTAL ESTIMATED PROJECT BUDGET					\$7,981,519	\$7,981,519	\$2,632,225	\$5,349,294	\$7,981,519

NOTE: This budget has been prepared prior to final engineering design. It should be regarded as preliminary in nature and subject to change as the final scope of improvements is determined by the City and the site conditions are investigated. Confined Disposal Facility has capacity for approximately 20,000 CY (neat line volume) of dredge material from North Harbor.



CONCEPTUAL SITE PLAN



PHASING SUMMARY		
PHASE	DESCRIPTION	COST (\$M)
①	DEMOLITION, DREDGING, ENVIRONMENTAL SAMPLING, PERMITTING, DESIGN PHASE I & 2	\$3.36
②	APPROACH DOCK, UPLANDS, DRIVE DOWN FLOAT & HEAVY DUTY TRANSFER BRIDGE	\$7.60
③	MOORAGE FLOATS & GANGWAY ACCESS TO SEAPLANE BASE	\$3.37
		\$14.32

PRELIMINARY

REVISIONS					
REV.	DATE	DESCRIPTION	DWN.	CKD.	APP.

PND CONSULTING ENGINEERS
Incorporated

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Juneau, Alaska 99801
Phone: 907-586-2093
Fax: 907-586-2099
www.pnd-anc.com

DESIGN: CRS CHECKED: CRS SCALE: AS SHOWN
DRAWN: PJD APPROVED: CRS



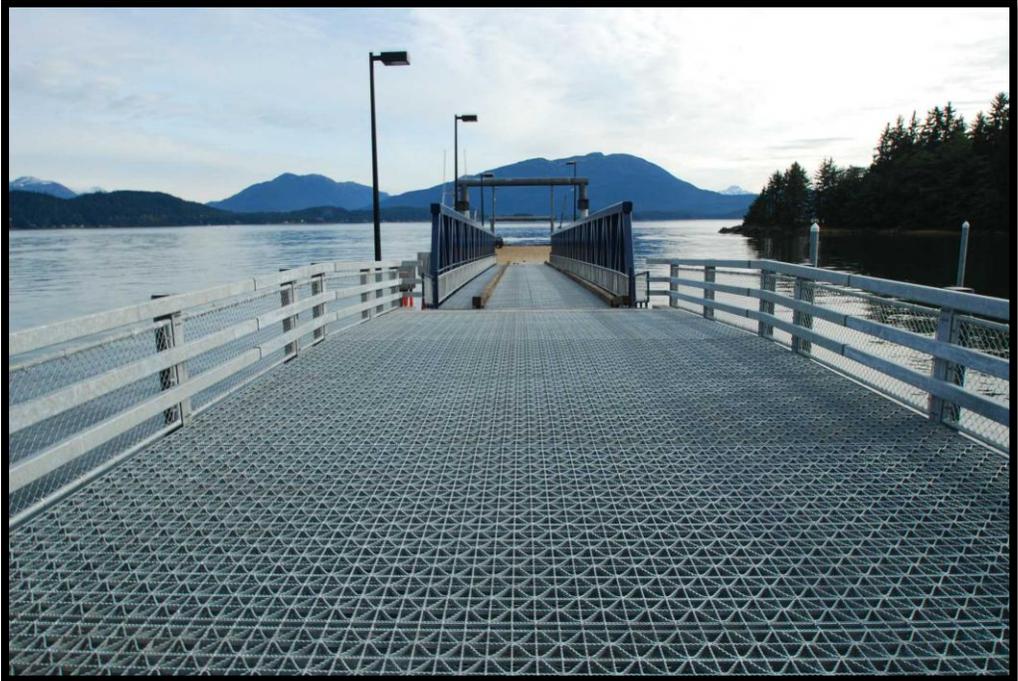
PETERSBURG MARINE TERMINAL DEVELOPMENT PLAN

SHEET TITLE: **CONCEPT NO.2 SITE PLAN**

PN&D PROJECT NO. 092072.01 DWG. FILE: 1.03.DWG

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SHEET
2 OF 2

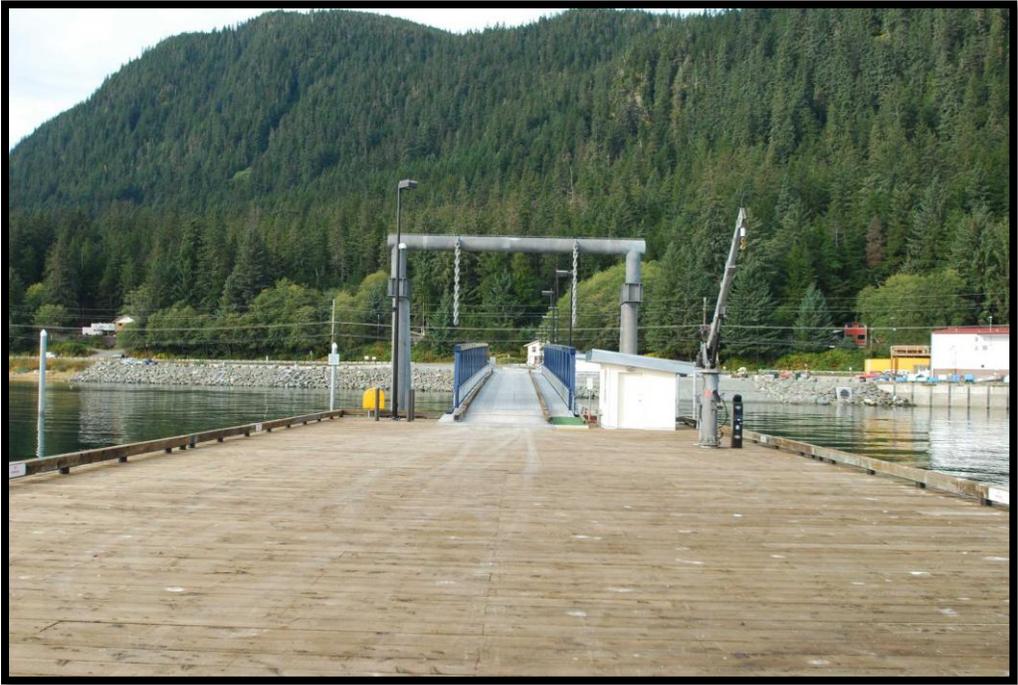
Juneau Drive Down Dock



Juneau Drive Down Dock



Juneau Drive Down Dock



AUKE BAY LOADING FACILITY CELEBRATED BY THE COMMUNITY OF JUNEAU

An Open House celebrating the grand opening of the Auke Bay Loading Facility was held on Saturday, August 22, 2009. The facility is located just north of the Alaska Glacier Seafoods and the Ferry Terminal on Glacier Highway. The ceremony included dedication speeches by Mayor Bruce Botelho and Greg Fisk, Vice Chair of Docks and Harbors Board. Mayor Bruce Botelho and Greg Fisk led the ceremonial ribbon cutting. Port Director John Stone and project manager Dick Somerville of PND Engineers gave facility tours while Harbormaster Phil Benner barbequed up some of his famous grilled sausages, hot dogs, salads and soft drinks were also served, sponsored by Trucano Construction. The Stoller White Bagpipes were on hand to perform the dedication song. Despite the rain, a good time was had by all.

Juneau's landlocked location, coupled with the current economic recession, makes it especially important to maximize jobs within our community. We appreciate the opportunity that this grant provides to create jobs and enhance infrastructure while protecting our valuable natural resources and enhancing fish habitat in our coastal community.

Not being on the road system poses unique challenges to our community. Workers are not readily available to travel for work without incurring expensive travel costs. By creating better jobs we are able to build a stronger economy. As the hub of our region and capital city, this economic growth has the potential to spread throughout Southeast Alaska, as we increase opportunities for business and job growth.

WHAT PEOPLE ARE SAYING...

The Captain of the Fishing Vessel Tiffany Lee says "It is the best thing to happen for the Juneau fish fleet over the past twenty years" "a very user friendly facility".

Vice Mayor Wayne Howell of Gustavus says, "As an outlying community of Juneau, Gustavus currently finds itself entirely dependent on Juneau's waterfront infrastructure for delivery of all of our freight services. This facility would meet our community's needs, as well as facilitate the regional movement of cargo throughout northern Southeast Alaska."



A crowd gathers for the Ribbon Cutting Ceremony — Sven Rasmussen, son of Per' and Audrey Rasmussen operates the crane
Photos by Loren Rasmussen



Juneau officials, from left: Juneau Assembly member Jonathan Anderson; Greg Fisk, vice-chair of the Docks and Harbors Board; Port Director John Stone; Mayor Bruce Botelho; and state Sen. Dennis Egan, D-Juneau, cut the ribbon during the grand opening ceremony for the Auke Bay Loading Facility.

The City and Borough of Juneau, Docks and Harbors Department hopes that you will find confidence in our community, we remain optimistic that the Auke Bay Loading Facility will continue to positively contribute to our community's overall character and economy.



AUKE BAY LOADING FACILITY JUNEAU, ALASKA

ALASKA MUNICIPAL LEAGUE 15TH ANNUAL ALASKA COMMUNITY AWARDS OF EXCELLENCE

NOMINATION BY:
CITY AND BOROUGH OF JUNEAU DOCKS AND HARBORS DEPARTMENT
JOHN STONE, P.E., PORT DIRECTOR • GARY GILLETTE, AIA, PORT ENGINEER • PHIL BENNER, HARBORMASTER





AUKE BAY LOADING FACILITY

ENVIRONMENTAL CONSIDERATIONS



The facility is located in sensitive marine eelgrass habitat. Facility components were sized and sited to minimize habitat impacts. Eelgrass from areas where impacts were unavoidable was moved and replanted. In addition, the facility incorporates several features to minimize impacts such as see-through decking and sedimentation control devices. The environmental mitigation for the project is the creation of a 30 acre conservation easement in Inner Auke Nu Cove to assure the eelgrass habitat is protected for the future. The mitigation project includes the protection of approximately 1.87 acres of eelgrass beds and improvement of marine habitat at Auke Nu Cove thereby enhancing commercial fisheries, and improving the livelihood of recreational boaters.

Numerous avoidance and minimization efforts were taken during design and construction to offset environmental impacts of the project overall, including the use of vibratory pile driving equipment to minimize impacts to marine mammals; use of a floating silt curtain to control erosion and sedimentation; use of a turbidity control mat to reduce impacts to water quality and eelgrass beds; installation of barrier piles to notify mariners of sensitive marine habitat in Auke Nu Cove; use of metal deck grating to allow light penetration into the water column; development of a facility management plan to minimize potential environmental damage from spills, improper waste disposal, and other practices; incorporation of oil-water separators into the storm drainage system; lighting installed and operated to avoid attracting ducks and seabirds and minimize glare and light pollution on neighboring properties, etc. The primary environmental benefit to this project will be nearby eelgrass beds that have will be placed into a conservation easement by the City and Borough of Juneau Docks and Harbors Department. According to the “A Survey of Fish Assemblages in Eelgrass and Kelp Habitats of Southeastern Alaska,” “more than 50 species of marine fish, many of commercial importance, use eelgrass and kelp habitats in Southeast Alaska.” “The presence of juveniles in eelgrass and kelp indicate that these habitats may be important nursery areas for some species.” “By protecting this essential coastal habitat and important marine seagrass, it will help insure that local marine fisheries, a key component to our local economy, will continue to remain strong and support the



local fishing industry. Users will pay fees to cover the operating and maintenance costs of the facility. The facility is remotely monitored with video cameras and access to cranes and amenities is controlled by keycards. Working with NOAA to protect eelgrass and marine habitats demonstrates our long commitment to be more environmentally responsible.

Alaska Department of Natural Resources (ADNR), Division of Coastal and Ocean Management (DCOM) Staffers Sylvia Kreel and William Groom compare plans to progress at the Auke Bay Loading Facility. Mandy Schramm and Joe Donohue said, “The new Auke Bay Commercial Loading Facility demonstrates how Alaska Coastal Management Program (ACMP) coordinates projects that require numerous federal, state and local permitting entities. the construction of this project is now underway after numerous meetings, project adjustments, land transfers, zoning changes, public input and a new conservation easement has been set aside.” “Originally submitted in December 2005, the ACMP coordination involved seven state and three federal agencies, the Juneau Coastal District, and two City and Borough of Juneau Departments—Docks and Harbors as the applicant and the Planning and Zoning as an interested party.” (www.dnr.alaska.gov)



OPERATION AND USE

The drive-down float allows users year-round ability to load and unload gear, cargo, provisions, crew, stores, etc. It also allows for users to perform vessel repair of all types. The float is 180' long by 50' wide and has twelve (12) moorage space designations. The float is equipped with two 2-ton cranes. A power pedestal with 2-30 amp and 2 -50 amp outlets is available on each side of the float next to the cranes.

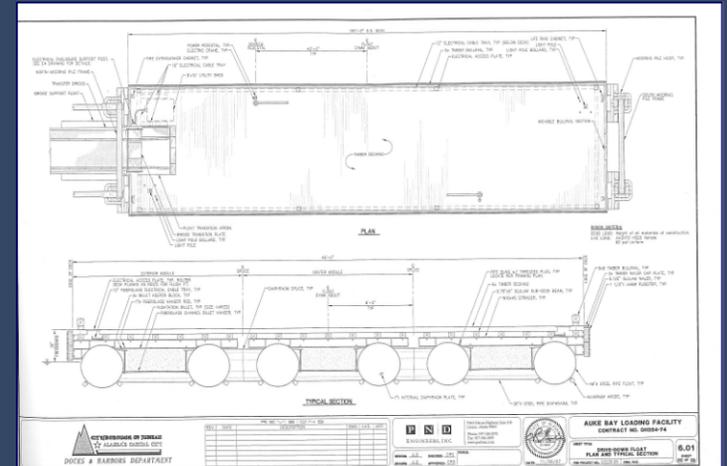
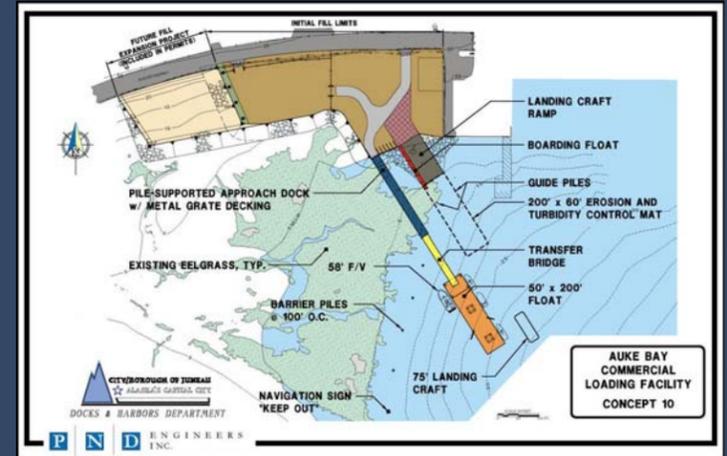
In its first year in operation, the crane was accessed for use 1307 times and the power pedestals were accessed 549 times. The loading ramp facility has been used more than 110 times and that the float has been moored at over 2,000 times by more than 300 different vessels.

The facility is also equipped with a landing craft loading ramp. The ramp is 60' wide and about 220' long at 15% slope. The surface is compacted gravel and extends to 7 feet below MLLW. There is designated freight staging area located adjacent to the head of the ramp as well as larger, long term storage areas if needed.

The State of Alaska Marine Highway System has used the facility the last two autumns to make their Hoonah/Angoon/Tenakee/Juneau run when their vessel has been shut down for maintenance. Coast Guard vessels use the facility to fuel. To date, the Docks and Harbors Department has put approximately 20,000 gallons of fuel across the facility.

PROJECT NEED

For years, marine loading operations within the community have been dependant on existing recreational facilities such as boat launch ramps throughout the City and Borough of Juneau, including Auke Bay and North Douglas. This combined use greatly hinders the operation of these facilities, impairs site access and crowds the adjacent parking and staging areas. The Auke Bay Loading Facility (ABLF) is intended to relieve these problems by providing a separate facility specifically designed for these activities. By improving the marine facility, the experiences of key users, including commercial fishing industries, landing craft businesses, small freight transport vessels, construction contractors, adventure and scenic tour charters and fishing charters are enhanced. It is the hope of the CBJ that increased efficiency at these facilities will lead to increased profitability and economic growth within our community.



OWNER INFORMATION

The Auke Bay Loading Facility is owned and operated by the City and Borough of Juneau. The facility is designed to accommodate commercial users in the fisheries, freight hauling, and marine vessel repair and support industries in northern Southeast Alaska.

Planning for the facility started with a request from the Juneau Fisheries Development Committee in 2000. The CBJ Assembly and Docks and Harbors Board continued planning and financing efforts, leading to the award of construction bid to Trucano Construction of Juneau in March, 2008.

CBJ Project Team—John Stone, P.E., Port Director; Gary Gillette, AIA, Port Engineer; Phil Benner, Harbormaster



ENGINEERING AND DESIGN

The City and Borough of Juneau retained PND Engineers, Inc. (PND) to plan and design the Auke Bay Loading Facility to serve the regional loading needs of commercial fishing vessels, landing craft and cargo operators. Services provided by PND included site assessments, conceptual designs, user group work sessions, public involvement, topographic and bathymetric surveys, traffic assessments, sound studies, environmental site studies including eel grass assessments, site circulation studies, and budget level cost estimates. Following selection of the preferred site at Auke Nu Cove, PND was retained to provide bid ready contract documents, contract administration and construction inspection services for this \$8.9 million facility.

Project elements included an 2.25 acre uplands staging area, driveway access, guardrail, storm drain system, water system, uplands utility shed, MSE retaining wall, 20' x 200' approach dock, 18' x 145' transfer bridge, 50' x 180' drive down steel pipe float, pipe pile installations, float mounted utility shed, two (2) two-ton float-mounted cranes, loading ramp, electrical, lighting and control systems including very low glare lighting, card access control for cranes and pedestals, and a video surveillance system. The transfer bridge leading to the float supports vehicle weights of 72,000 pounds.

Electrical engineering design was provided by Morris Engineering Group.

Key Engineering Project Members

- Design Project Manager—Dick Somerville, P.E., PND Engineers, Inc.
- Marine Engineering—John DeMuth, P.E., PND Engineers, Inc.
- Uplands Engineering—Per' Christian Rasmussen, PND Engineers, Inc.
- Construction Inspection—Brandon Ivanowicz, PND Engineers, Inc.
- Electrical Engineering—Mark Morris, P.E., Morris Engineering Group



FINANCE INFORMATION

Total Project Cost - \$12.5 million

Construction Cost - \$10.7 million

Permitting Cost - \$0.5 million

Design and Construction Management - \$1.3 million

Funding

CBJ General Obligation Bond - \$3.56 million (supported with property tax)

CBJ Harbor Revenue Bond - \$4.25 million (supported with Fisheries Business Tax)

Denali Commission Grant - \$1.0 million (federal grant)

State of Alaska Fisheries Development Grant - \$51,000 (cranes and key card access system)

TIGER Grant - \$3.64 million (federal grant)



AWARDS

The Auke Bay Loading Facility was awarded an Honorary Outstanding Civil Engineering Project of the Year Award by the Juneau Branches of the American Society of Civil Engineers and the Alaska Society of Professional Engineers in February 2010. This award recognizes projects that have demonstrated, through the design, coordination and execution of the construction, the highest level of engineering skill and that represents the greatest contribution to civil engineering progress.