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### Alaska's Flag Song

Eight stars of gold on a field of blue,  
Alaska's flag, may it mean to you,  
The blue of the sea, the evening sky,  
The mountain lakes and the flowers nearby,  
The gold of the early sour-  
dough's dreams, The precious gold  
of the hills and streams,

The brilliant stars in the northern sky,  
The "Bear," the "Dipper," and shining  
high, the great North Star with its  
steady light, O'er land and sea a beacon  
bright, Alaska's flag to Alaskans dear,  
The simple flag of a last frontier.

# City & Borough of Juneau Docks & Harbors



Photo by Matthew Sill

## Marine Park Deckover Project Ribbon Cutting Ceremony

*May 15<sup>th</sup>, 2023*

## Welcome & Introductions

Carl Uchytel, P.E.  
Port Director

## Infrastructure Needs along Juneau Waterfront

Matthew Creswell, AMPE, CMM  
Harbormaster

## Project Design Challenges

John DeMuth, P.E., S.E.  
PND Engineers, Inc.

## Construction Efforts

Jake Ritter  
Principal,  
Trucano Construction Company

## Project Management

Matthew Sill, P.E.  
Port Engineer

## Cutting of the Ribbon

### General Contractor:

Trucano Construction Co

### Concrete Sub-Contractor:

Compass Construction

### Surveying Services:

JW Bean Surveying

### Engineer of Record:

PND Engineers, Inc.

### Electrical Engineer:

RESPEC

### Electrical Sub-Contractor:

Alaska Electric, LLC

### Landscaping:

Ed's Edible Landscaping

The Marine Park Deckover project is a long-awaited infrastructure project that seamlessly links Marine Park to the Alaska Steamship wharf, by replacing the dead-end of the old wharf with an ADA accessible timber ramp.

The project planning and design began in early 2020 at the same time the world was coming to terms with the pandemic and the resulting business closures and lockdowns. Despite this, PND Engineers completed the design and delivered Contract Documents to CBJ Docks and Harbors in 2021. In June 2022, Trucano Construction Company was awarded the \$2.5M contract, mobilizing to perform the work in October 2022 and worked through our unseasonably cold winter to install the pilings and build the new structures ahead of the arrival of the first cruise ship in April. The project was completed on time with only \$36,182 in change orders, an increase of only 1.5% over the bid price.

The project consists of three major structural units, an ADA accessible timber ramp, a cast-in-place concrete dock, and an extension of the existing landscaped fill area. Each of these structural units is a separate, pile supported structure. In total, the Contractor installed seventeen 16" diameter steel piling to support the new structures. A major pile driving challenge was the installation of a cluster of pilings around a 48" storm drain outfall while ensuring that the outfall remained in service and undamaged through construction. Another challenge was the requirement no pile driving took place in the water, as a precaution to avoid impacting marine mammals in the area. This required the Contractor to drive piling only at low tide, limiting the pile driving period and increasing the difficulty of pile driving.

The ADA accessible timber ramp installation required the demolition of approximately 40 feet of the existing Alaska Steamship wharf to provide the necessary slope between the elevation of Marine Park and the Alaska Steamship Wharf. The timber ramp consists of steel pile caps supporting deep glulam beams and a timber walking surface.

The cast-in-place concrete dock was designed as a separate structure from the timber ramp due to the irregular shape at the intersection between the Marine Park railing and the extension of the Seawalk which was unsuitable for timber construction. The concrete dock rests on steel pile caps and steel piling.

Finally the extension of the landscaped area consists of pre-cast concrete panels supported by steel pile caps and steel piling. The structure supporting the landscaped area was built 18" lower than the adjacent structures to provide an area to place topsoil that was planted with grass and small shrubs. This structure also supports a sloped retaining wall that separates the ADA timber ramp from the landscaped area. In addition to the structural elements, the project included lighting improvements with the installation of three new light poles and a new power capstan on the dolphin to assist with line handling during cruise ship docking operations. The project additionally includes a new safety railing along the water side of the Seawalk that we hope to extend along the entire face of the wharf in the future. The Marine Park Deckover project represents a major improvement to the flow of pedestrian traffic on the waterfront, and we hope the public enjoys the facility improvements as much as we do.