

UMC DOCK EXPANSION Public Involvement Meeting

April 29, 2015 6:00 PM City Council Chambers



PND ENGINEERS, INC.

PND Engineers, Inc. (PND)

- Dempsey Thieman, P.E., Principal in Charge
- Lisa Baughman Permitting
- Alexandra West Public Involvement



TONIGHT'S OBJECTIVES

- Background & Status
- Conceptual Plan for the Project
- Design Information
- Implementation & Phasing
- Backfill Material Source
- **Utilities**
- Project Schedule
- Permitting
- Next Steps
- Questions, Comments & Suggestions

PROJECT BACKGROUND & STATUS

Background:

- Replace two aging pile supported facilities which currently limit use
- Aligned with USCG Dock and existing UMC Positions V- VII
- Provide high capacity dock, expanded backreach, container crane, utilities, cargo handling, etc.
- OPEN CELL SHEET PILETM dock similar to Positions V-VII
- Determine need for increased depth Panamax/New Panamax
- Public Involvement process to further define project
 - April 29, 2015 6 PM Council Chambers
 - Additional Public Meeting Planned for Summer 2015

PROJECT BACKGROUND & STATUS

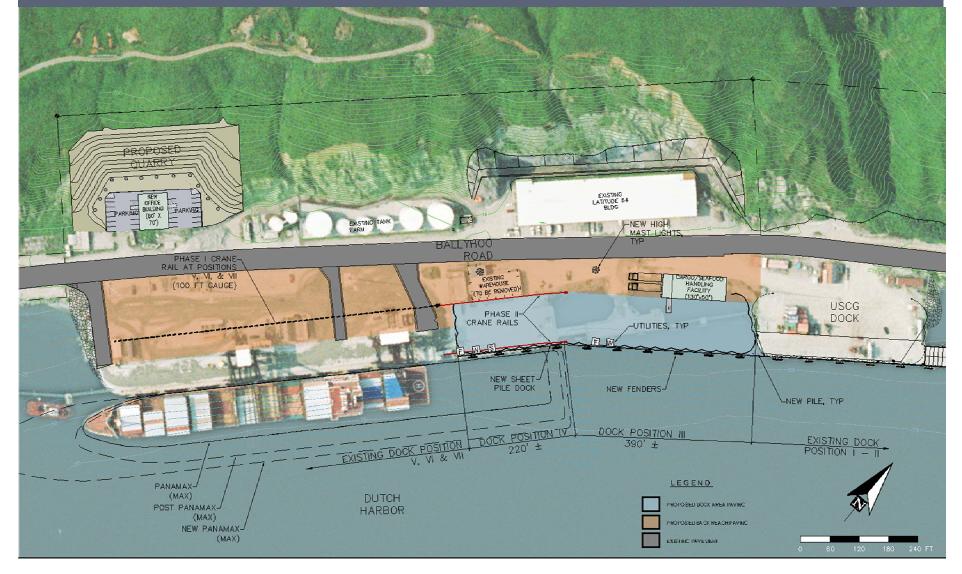
Current Project Status

- Geotechnical exploration completed completed Spring 2014
- Conceptual Design and Cost Estimate completed Fall 2014
- Permitting submitted USACE application March 2015

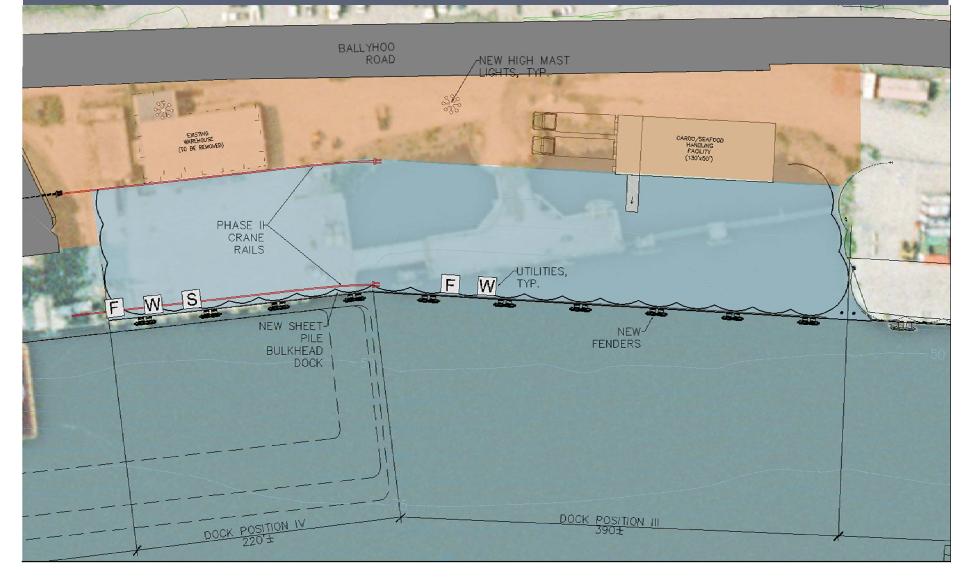
Project Tasks in Progress

- Preliminary Design, Planning and Cost Estimate
- Public Involvement
- Permitting Support and IHA Application likely
 - Marine Mammal Observations Sea Lions, Sea Otters
 - Needed to determine if marine mammals will be disturbed by construction
- Upland Survey and Bathymetry
- Existing Warehouse Condition Assessment structural, electrical

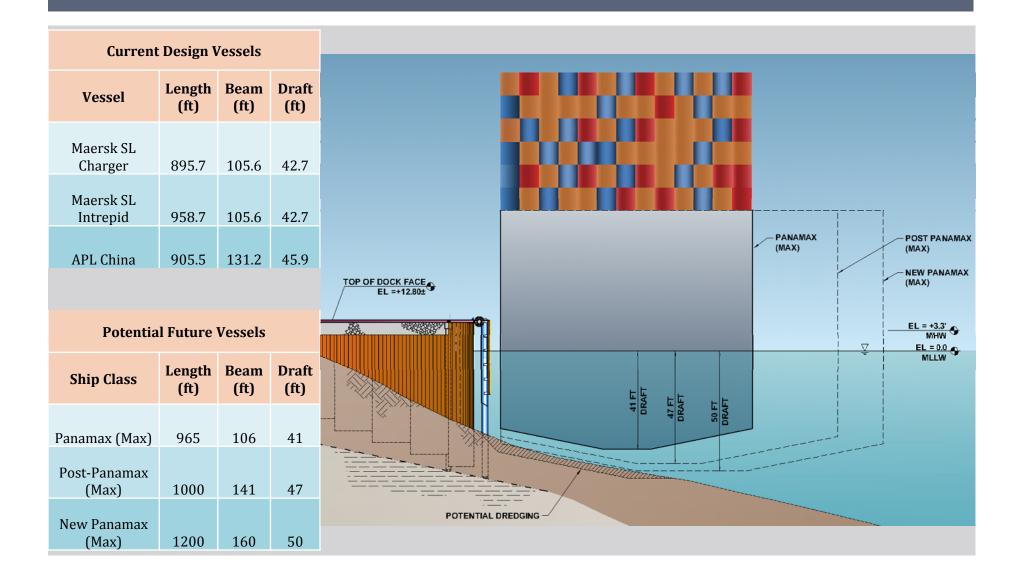
SITE PLAN OVERVIEW



SITE PLAN POSITION III &IV



DESIGN VESSELS



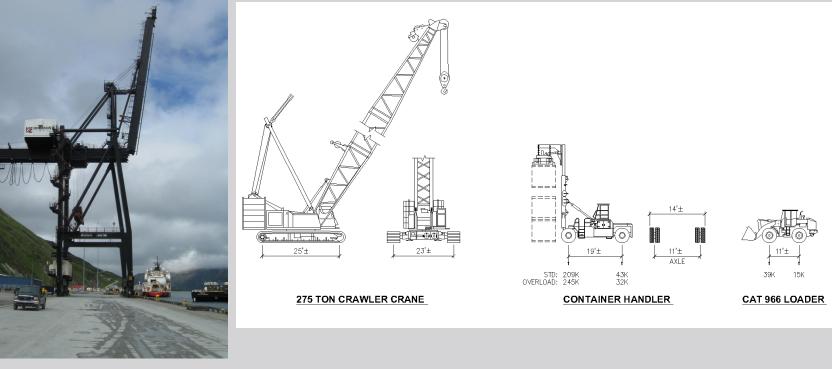
DOCK LOADING

Surface Loads

- 500 psf at Dock Face
- 1,000 psf at Backreach

Equipment Loads

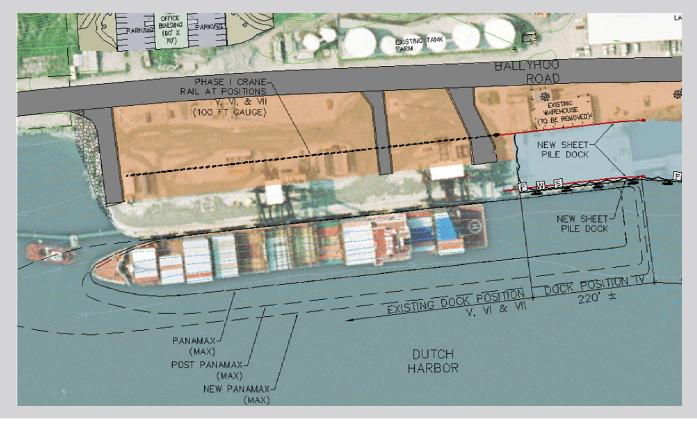
- Gantry Crane
- 275-ton Crawler Crane
- Taylor 950 Container Handler



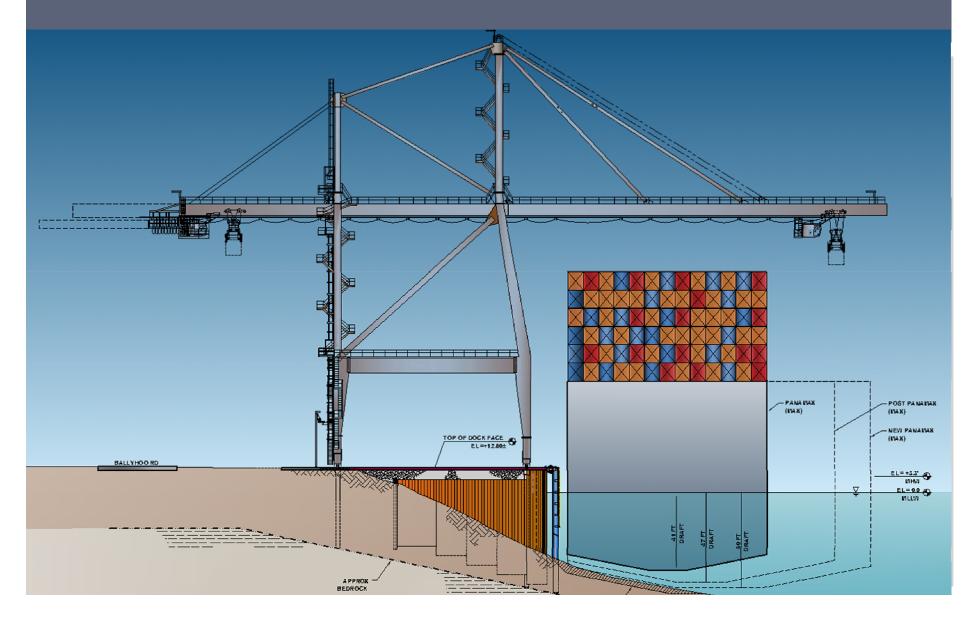
PHASE I – NEW CRANE RAIL

New Crane Rail at UMC Positions V, VI, & VII

- New rear crane rail, reuse front rail, concrete backreach surfacing
 - 100-foot gauge and 50-foot gauge being considered



DOCK CROSS-SECTION WITH CRANE

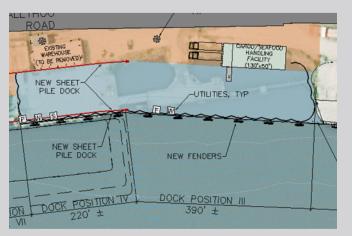


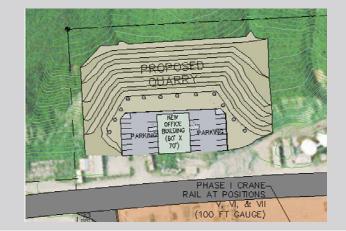
PHASE II

- **Construct OPEN CELL SHEET PILE dock at Position III & IV**
- **Fill options:**

JK2

- Develop quarry adjacent to Ballyhoo Road, near existing tank farm
- Unspecified Location allow contractor to determine material source
- Utilities and High Mast Lighting, Surfacing
- Cargo/seafood handling facility
- Extend gantry crane rails onto UMC Position IV
- Construct office building in quarry footprint





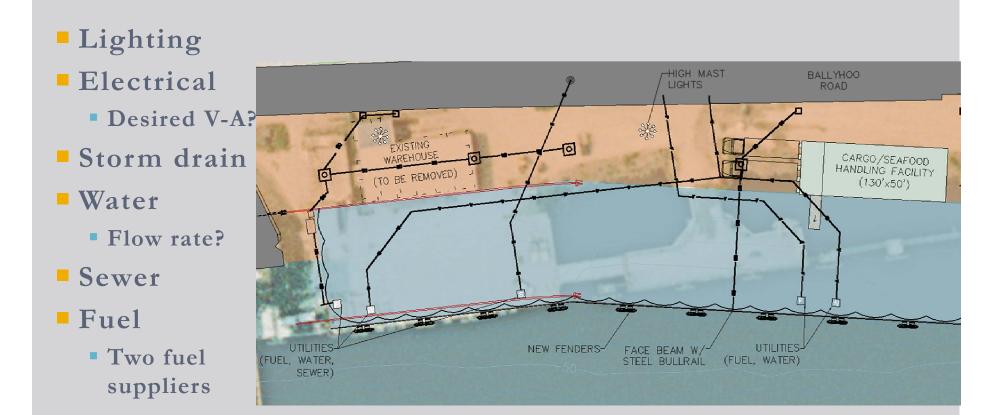
PROPOSED QUARRY

- City-owned property
- Aleut Corp. subsurface ownership
- Quarry overburden probing (2000)
 - Shallow overburden (5 ft or less)
 - Adequate volume of rock fill is available
 - Flat ground desired for development
 - Rock bolting likely required to stabilize quarry face to allow building constr.
 - Other fill sources may be available contractor option or require UMC quarry development for usable high value upland

OVERBURDEN DEPTHS

PROBE NUMBER	OVERBURDEN DEPTH (FT)
P-1	4.25
P-2	4.3
P-3	4.2
P-4	3.2
P-5	4.2
P-6	2.6
P-7	1.5
P-8	2.6
P-9	3.2
P-10	2.6
P-11	1.6

UTILITIES – INPUT NEEDED



PHASE II - PROJECT SCHEDULE

2-Year Construction Schedule – Phase II

• Year 1

MCRE1

- Demo of existing docks
- Quarry development
- New sheet pile and fill
- New crane rails
- Fendering
- High Mast Lighting

- Year 2
 - Utilities (W, S, E, F, D)
 - Dock surfacing
 - Cargo Handling Facility
 - Office Building



PERMITTING

Project requires authorization from:

- US Army Corps of Engineers (USACE)
- US Fish and Wildlife Service (USFWS)
- National Marine Fisheries Service (NMFS)
- Alaska Department of Environmental Conservation (ADEC)

PERMITTING

Status of permits:

- USACE application was submitted and is currently being reviewed.
 - Identify possible mitigation projects within the area
- USFWS/NMFS Section 7 Consultation (ESA) has started

NEXT STEPS (2015)

- Federal TIGER Fund Grant Application in progress
- Project Scope Definition and Public Input in progress
- Site survey and bathymetry May/June 2015
- Vessel design criteria study
 - Design UMC to handle future Panamax vs. Post-Panamax
 - Gantry Crane 100 ft gauge needed for wider vessels
 - AK State Ferry FV Tustumina
- Determine Need/Feasibility of increased depth at UMC positions
- Determine Utilities to be provided at UMC dock
- Project Permitting in progress, application submitted 3/2015
 - Marine Mammals and Endangered Species near the project area
- 35% Design currently in progress
 - Design criteria
 - Calculations
 - Drawings and Cost Estimate
 - Quarry Development

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 with PND, or Peggy McLaughlin.

Or you can mail/email it to PND

CONTACT INFORMATION

CONTACT:

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