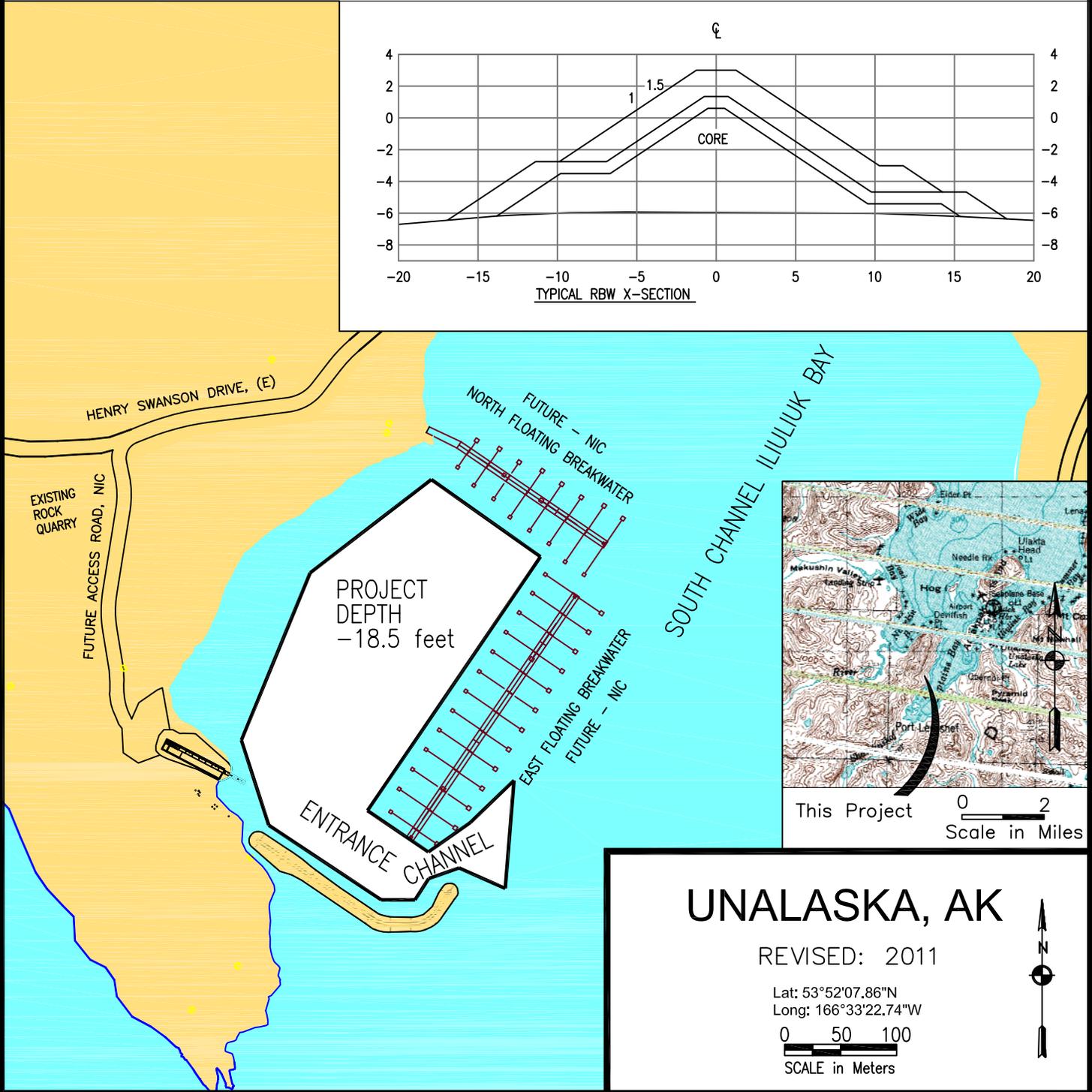
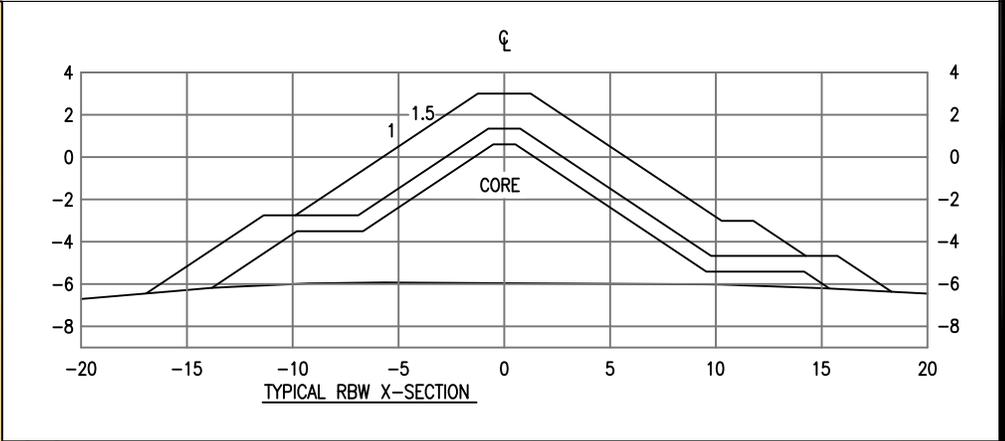
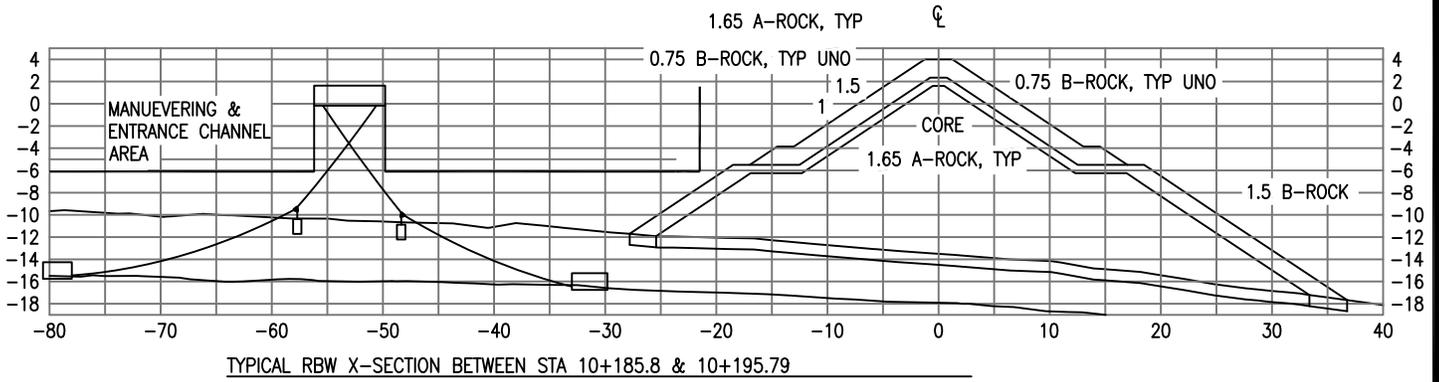


Unalaska Harbor



Condition of Improvements
30 December 2014
Unalaska (Dutch Harbor), Alaska
(CWIS No. 013597)

Authorization In Section 314 of Ronald W. Reagan National Defense Authorization Act of 2005, PL 108-375, October 28, 2004. SEC. 314. SMALL BOAT HARBOR, UNALASKA, ALASKA. The Secretary of the Army shall carry out the small boat harbor project in Unalaska, Alaska, at a total estimated cost of \$23,200,000, with an estimated Federal cost of \$11,500,000 and an estimated non-Federal cost of \$11,700,000, substantially in accordance with the plans, and subject to the conditions, recommended in a final report of the Chief of Engineers if a favorable final report of the Chief for the project is completed no later than December 31, 2004.

Table 1

Existing Project	Length ft.	Width ft.	Depth ft.
Basin	347	233	-18.5
Entrance Channel (irregular shape)	4850	25	-18.5
Breakwater	642	Varies	
North Floating Breakwater	499		
East Floating Breakwater	899		

Project Usage Commercial fishing is the primary industry of Unalaska (Dutch Harbor). The new small boat harbor will be used as a base for both local and transient commercial fishing vessels. It was reported by NOAA to have the nation's highest seafood landings by pound (Coastal Management News, volume 3, issue 2, April 2009).

Progress of Work

- 2009 The project was completed including a rock breakwater, boat launch ramp, and dredging of about 28,241 cubic yards. The new small boat harbor with an upland disposal area had a Federal cost of \$10,923,978.
- 2010 A condition survey was conducted in late June 2010.

Progress of Work

- 2011 Fourteen floating breakwater modules were fabricated and staged for transit to the project site. The modules are constructed of post-tensioned concrete with rigid polystyrene foam fill and are 21 feet wide, 98 feet 5 inches long, and 5 feet 11 inches tall. The modules have a freeboard of 1 foot 1 ¾ inches. The concrete anchor blocks for the floating breakwaters were placed and surveyed.
- 2012 The East floating breakwater, consisting of 9 modules, and the North floating breakwater, consisting of 5 modules, was installed. Modules are separated by two, 1 foot 8 inch thick rubber arch fenders, one on each side. A pair of longitudinal anchor chains (attached at the end module of each floating breakwater and pulling towards the middle), provide some force to keep the modules pulled together and there are two chains at each gap that limit the range of movement.
- 2014 A condition survey was conducted in June.

Table 2 Cost to Date

Project	Description	Cost \$
013597	GI PED Appropriation	1,160,403
	GI PED Costs	1,160,402
	GI PED Contributed Appropriation	386,801
	GI PED Contributed Costs	386,801
	CG ARRA Appropriation	11,748,343
	CG ARRA Costs	11,748,343
	CG Appropriation	10,228,000
	CG Costs	9,766,367
	CG Contributed Appropriation	4,263,099
	CG Contributed Costs	3,895,027

Table 3 Range of Tides in feet

Tide Station	Mean Range	Diurnal Range	Extreme Range
946 2620 Unalaska AK	2.39	3.6	9.48

Unalaska Harbor, Unalaska, Alaska



Oblique of Unalaska Harbor, 6 August 2014.



Unalaska Harbor, 22 September 2006.