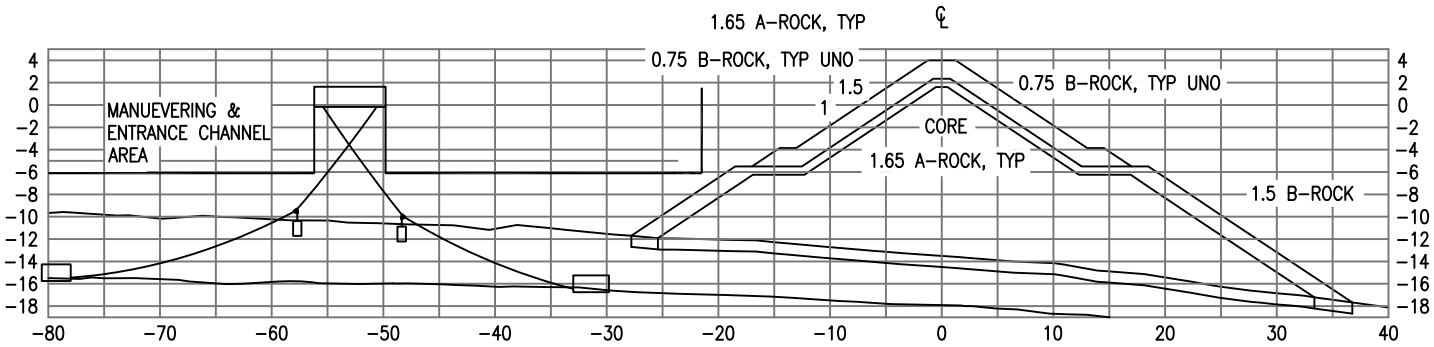
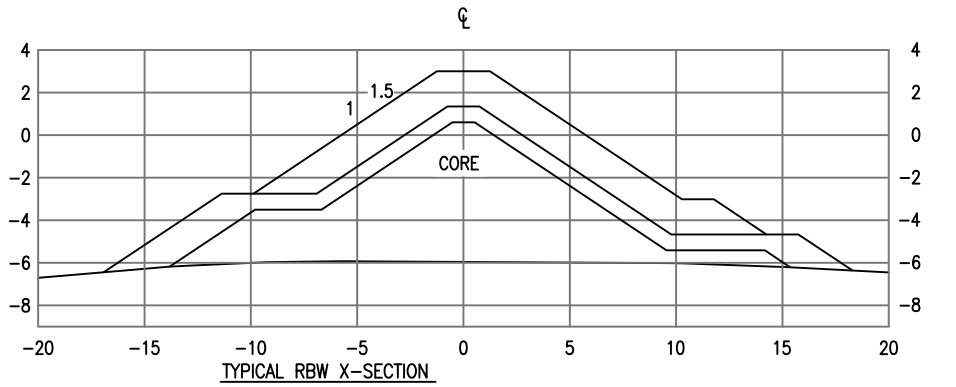
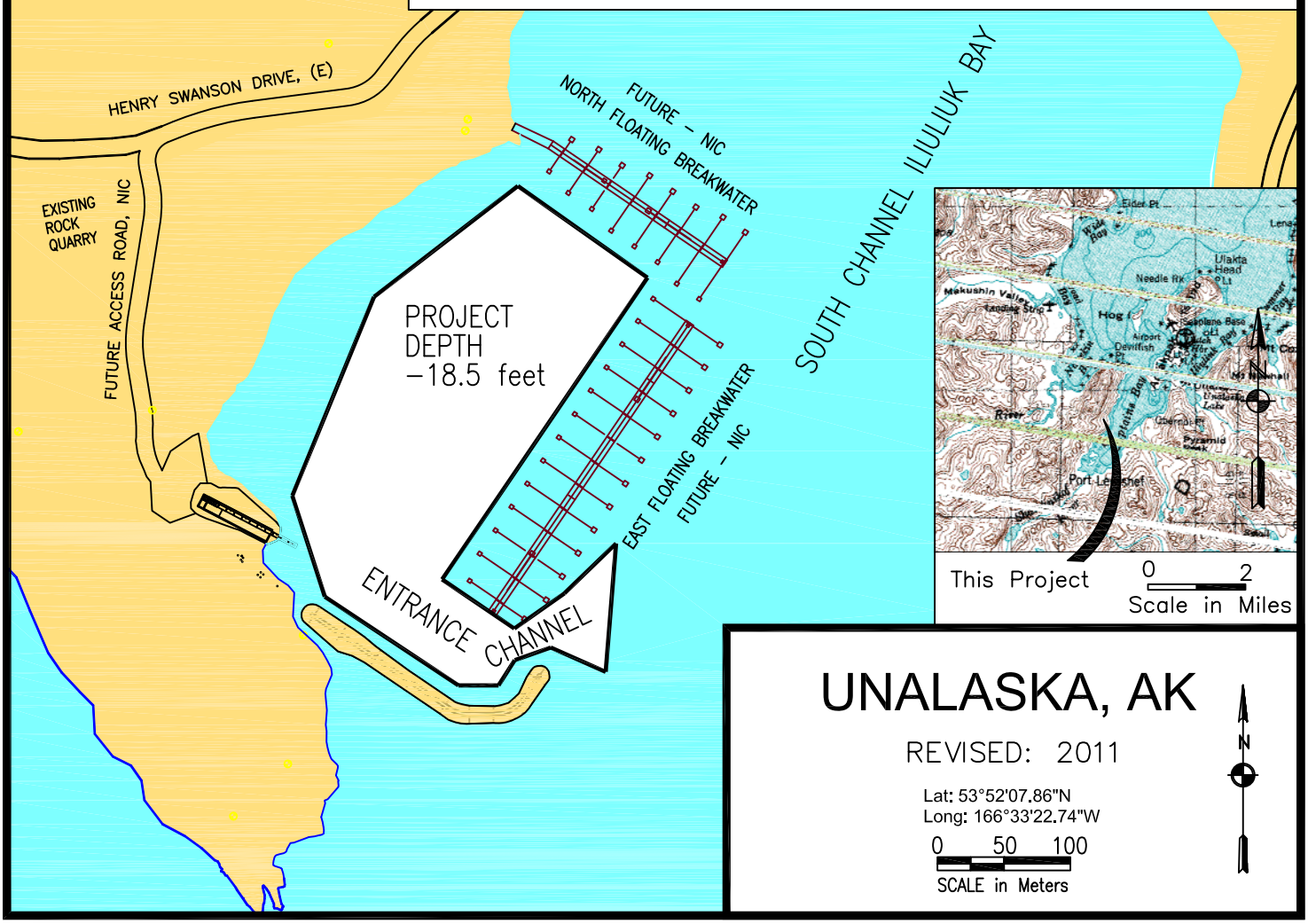
UNALASKA HARBOR



TYPICAL RBW X-SECTION BETWEEN STA 10+185.8 & 10+195.79



TYPICAL RBW X-SECTION



UNALASKA, AK

REVISED: 2011

Lat: 53°52'07.86"N
Long: 166°33'22.74"W

0 50 100
SCALE in Meters

N

UNALASKA (DUTCH HARBOR), ALASKA
(CWIS NO. 13597)

Condition of Improvement 30 September 2012

AUTHORIZATION: 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.

EXISTING PROJECT:	LENGTH	DEPTH	WIDTH
Basin	347 ft	-18.5 ft	233 ft
Entrance Channel (irregular shape) . . .	170 ft	-18.5 ft	25 ft
Breakwater	642 ft		varies
North Floating Breakwater	499 ft		
East Floating Breakwater	899 ft		

PROJECT USEAGE: 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.

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.

Continues on page 1-50a

UNALASKA (DUTCH HARBOR), ALASKA (continued) 30 September 2012

COST TO DATE:

GI PED Appropriation	$1,160,403		CG Appropriation	$10,428,000
GI PED Costs	$1,160,402		CG Costs	$9,260,176
GI Contributed PED Appropriation	$386,801		CG Contributed Appropriation	$4,263,099
GI Contributed PED Costs	$386,801		CG Contributed Costs	$3,775,030
CG Appropriations ARRA	$11,748,344		CG Costs ARRA	$11,748,343

RANGE OF TIDE:	Mean Range	Diurnal Range	Extreme Range
	2.39’	3.60’	15.9’

Unalaska Harbor, Unalaska, Alaska

Unalaska Harbor boat ramp (top) and aerial view in 2010.

Unalaska Harbor, Unalaska, Alaska

Unalaska Harbor looking north with Unalaska in the distance (top) and an aerial view looking south across the harbor and the bay (bottom) taken in the summer of 2010.