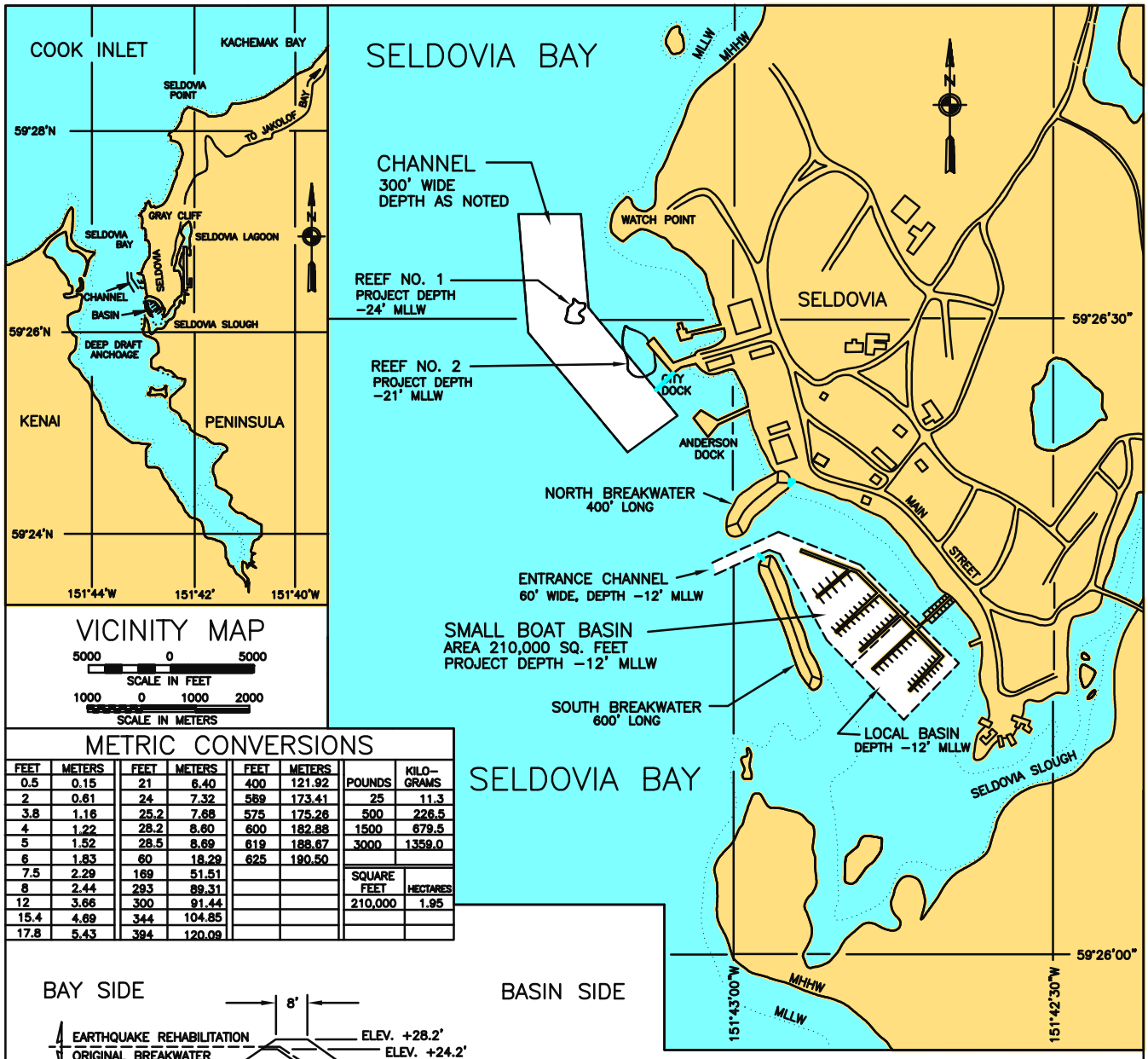
SELDOVIA HARBOR

CORPS OF ENGINEERS U.S. ARMY

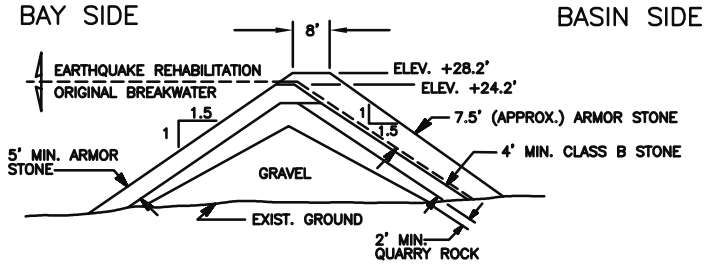


VICINITY MAP

5000 0 5000
SCALE IN FEET
1000 0 1000 2000
SCALE IN METERS

METRIC CONVERSIONS

FEET	METERS	FEET	METERS	FEET	METERS	POUNDS	KILO-GRAMS
0.5	0.15	21	6.40	400	121.92	25	11.3
2	0.61	24	7.32	569	173.41	500	226.5
3.8	1.16	25.2	7.68	575	175.26	1500	679.5
4	1.22	28.2	8.60	600	182.88	3000	1359.0
5	1.52	28.5	8.69	619	188.67		
6	1.83	60	18.29	625	190.50		
7.5	2.29	169	51.51			SQUARE FEET	HECTARES
8	2.44	293	89.31			210,000	1.95
12	3.66	300	91.44				
15.4	4.69	344	104.85				
17.8	5.43	394	120.09				

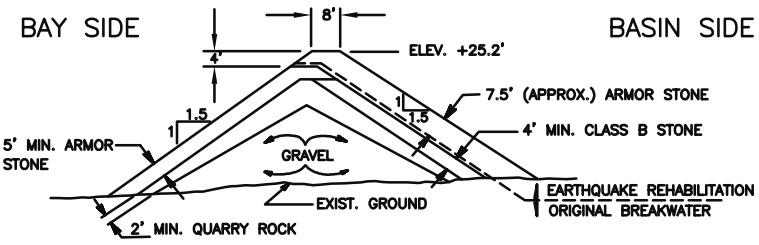


TYPICAL NORTH BREAKWATER SECTION

NOT TO SCALE

NOTES

1. SOUNDINGS & ELEVATIONS ARE BASED ON MLLW = 0.0'.
2. CONSTRUCTION DREDGING WAS BASED ON PRE-EARTHQUAKE TIDAL DATUM; ELEVATION 0.0' PRE-EARTHQUAKE EQUALS PRESENT ELEVATION -3.8'.
3. THIS LOCALITY IS SHOWN ON U.S.C.&G.S. CHARTS 16013, 16640, 16645, 16646.



TYPICAL SOUTH BREAKWATER SECTON

NOT TO SCALE

SELDOVIA HARBOR ALASKA

REVISED 1993

500 250 0 500 1000
SCALE IN FEET
100 0 100 200 300 400 500
SCALE IN METERS

SELDOVIA HARBOR, ALASKA
(CWIS NO. 72763, 87626, 87348)

Condition of Improvement 30 September 2010

AUTHORIZATION: (1) Rivers and Harbors Act, 2 March 1945 (House Doc. 702, 76th Congress, 1st Session) as adopted, provides for removal of obstructions in the entrance channel near Watch Point to a depth of 24 feet below MLLW. **(2)** Rivers and Harbors Act, 3 July 1958 (House Doc. 34, 85th Congress, 1st Session) as adopted, provides for a small boat basin 300 feet long by 700 feet wide to a depth of 12 feet below MLLW protected by two rock breakwaters 400 and 600 feet long.

EXISTING PROJECT:	LENGTH	DEPTH	WIDTH
• Channel	1250 ft	-21 ft	300 ft
• Basin (Federal)	3.85 acres	-12 ft	
• Basin (local)	2.67 acres	-12 ft	
• Entrance Channel (to basin)	423 ft	-12 ft	60-116 ft
• North Breakwater	400 ft		
• South Breakwater	600 ft		

PROJECT USAGE: The small boat basin provides protected moorage for 140 fishing vessels. Improvement of the outer channel eliminates delays due to tides, permits use of larger vessels, facilitates deep-draft cargo operations at the port, and assures greater safety for vessels calling at Seldovia. Seldovia is economically dependent on the lumber and fishing industries and its crab cannery, which is the main plant serving the Cook Inlet area.

PROGRESS OF WORK:

1960 - Hydrographic surveys and pre-design investigations are carried out.

1961 - The project is modified during the design stage as follows: Reef No. 2 is to be removed completely to the -21 foot depth (instead of partial removal to -24 feet), minor relocation of the basin and breakwaters, and modification of the basin's shape. Basin dredging begins in October with suitable material utilized as breakwater core.

1962 - Drilling and blasting operations begin in the outer channel in February and are completed in April; final dredging in the basin is finished in April as well. Work on the breakwaters continues until completion in December.

1964 - The earthquake of 27 March 1964 damages the breakwaters and inner harbor facilities; a subsidence of 3.8 feet is reported. Rehabilitation of the Federal project by increasing the elevation of the breakwaters by 4 feet is initiated in June and completed in October.

2002 - Vertical aerial photography is taken in June.

2003 - A condition survey of both the harbor and the deep draft channel is conducted in June.

2006 - The latest condition surveys of both the channel and harbor are completed in May.

2010 - A project condition survey was completed in September.

Continues on page 1-41a

SELDOVIA HARBOR, ALASKA (continued)

30 September 2010

COST TO DATE:

CG Appropriation 87626	$1,059,383
CG Costs 87626	$1,059,383
CG Appropriation 87348	$5,000
CG Costs 87348	$5,000
O&M Costs	$61,061

RANGE OF TIDE:

Mean Range	Diurnal Range	Extreme Range
15.5'	18.0'	31.0'

CONTROLLING DEPTH: Reef No. 1 was sounded at -26.6 feet MLLW and Reef No. 2 was sounded at -23.4 feet MLLW in the deep draft channel, May 2006. The vast majority of the Federal basin also meets or exceeds project depth; however, the float configuration is such that for vessels transiting the local basin, –5.2 feet MLLW controls in May 2006. Controlling depth 2010 in the harbor is -9.6 feet in the very SW corner and -14.3 feet in the eastern side of the entrance channel.

Seldovia Harbor and Channel, Seldovia, Alaska

Seldovia Harbor aerial (top) and breakwater (bottom) in 2010.

Seldovia Harbor and Channel, Seldovia, Alaska

Seldovia SBH (top) and aerial oblique photograph in 2010.

Seldovia Harbor and Channel, Seldovia, Alaska

Seldovia Harbor (top) and Harbor with channel in upper left (bottom) in 2010.

Seldovia Harbor and Channel, Seldovia, Alaska

Seldovia Harbor (top) and Seldovia Harbor boat launch in 2010.