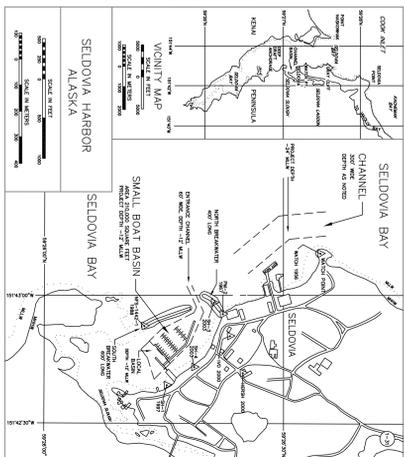
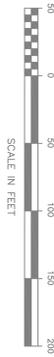


SELDOVIA BAY

VOLUME COMPUTATIONS

PROJECT DRAIN - 172 MILW	CUBIC YARDS
HARBOR PAY LINE (-12 MILW)	15
SHORELINE PAY LINE (-12 MILW)	15
SHORELINE PAY LINE (-13 MILW)	41
VOLUME AVAILABLE ALONG SHORESIDES (S.I. H.V.)	41
TOTAL	352



- NOTES**
- HORIZONTAL CONTROL IS ALASKA STATE PLANE, ZONE 4, NAD83. IN US SURVEY FEET, HOLDING POINTS ARE: 1990.000, E 1320.250 AND USACE SBC PM-2-1987 AS 1990.000, E 1320.250.
 - VERTICAL CONTROL IS MEAN LOWER LOW WATER DATUM IN US SURVEY FEET (MLLW=0.0). FROM NOAA/TIDE BENCH MARK US-1990-000, TIDAL DATUM IS BASED ON THE 1983-2001 TIDAL EPOCH PUBLISHED 09/21/2003.
 - SOUNDINGS ARE IN FEET AND ARE MINUS UNLESS OTHERWISE INDICATED.
 - THIS DRAWING INDICATES GENERAL CONDITIONS AT THE TIME OF SURVEY.
 - SPACING OPERATIONS WERE CONDUCTED ON MAY 17-18, 2006 USING AN INTERSPACE 448 DEPTH SOUNDING SYSTEM. SOUNDING OPERATIONS WERE CONDUCTED ON RIK CORRECTIONS BROADBAND FROM A TRIMBLE 5700 BASE STATION SET AT DOME BC-SH-1-1997-1999. MAX INTERPOLATED DEPTH IS 10.0 FEET. THE CORRECTIONS WERE PROVIDED BY TRIMBLE 5700 RTK GPS RECEIVER AND CHECKED THROUGH CONVENTIONAL METHODS.
 - VERTICAL CONTROL WAS SURVEYED MAY 18, 2006 USING OPTICAL INSTRUMENTS AND DIFFERENTIAL LEVING TECHNIQUES. HORIZONTAL CONTROL WAS SURVEYED MAY 19-20, 2006 BY TRIMBLE 5700 RTK GPS RECEIVER AND CHECKED THROUGH CONVENTIONAL METHODS. BENCHMARKS WERE SURVEYED USING A TRIMBLE 5700 RTK SURVEY RECEIVER.

CONTROL DATA

STATION	NORTHING	EASTING	ELEV.	DESCRIPTION
LIGHT 1985	1,990,689.92	1,320,458.88	27.08	USACE SBC
PM-2-1987	1,990,689.92	1,320,458.88	27.08	USACE SBC
US-1990-000	1,990,000.00	1,320,250.00	26.52	USACE SBC
US-1990-000	1,990,000.00	1,320,250.00	26.52	USACE SBC
WATCH 1946	1,992,239.06	1,320,070.44	-	USACE SBC
SEL-4	1,992,069.65	1,320,447.53	-	NOT SURVEYED FOR
SEL-1-1997	1,991,007.04	1,321,629.21	28.46	USACE DOME BC
SEL-2-1997	1,991,661.24	1,320,123.78	42.97	USACE DOME BC
SEL-3-2003	1,991,006.97	1,320,509.28	61.56	USACE DOME BC
SEL-4-2003	1,990,730.58	1,320,500.61	28.99	USACE DOME BC
SEL-5-2006	1,990,453.25	1,321,371.57	29.54	USACE DOME BC
SEL-6-2006	1,991,765.56	1,320,514.81	29.67	13.74 DOME BC (SEE THIS SURVEY)

PROJECT LIMITS

CORNER	NORTHING	EASTING	CORNER	NORTHING	EASTING
1	1,990,652.44	1,320,689.85	9	1,990,524.48	1,320,673.88
2	1,990,652.44	1,320,689.85	10	1,990,524.48	1,320,673.88
3	1,990,263.63	1,321,302.98	8	1,990,447.22	1,320,333.60
4	1,989,963.55	1,321,026.05	9	1,990,502.34	1,320,309.89

NAVIGATION AIDS

USCG No.	DESCRIPTION	NORTHING	EASTING
26165	LIGHT 3	1,992,242.2	1,320,045.0
26170	SELDOVIA DOCK LIGHTS (2) (North)	1,991,663.9	1,320,106.2
26170	SELDOVIA DOCK LIGHTS (2) (South)	1,991,498.0	1,320,222.8
26170	SELDOVIA DOCK LIGHT POLE (North)	1,991,498.0	1,320,222.8
26170	SELDOVIA DOCK LIGHT POLE (South)	1,991,498.0	1,320,222.8
26175	DAVEBACON 4	1,991,481.6	1,319,167.2
26180	SELDOVIA BREAKWATER LIGHT 5	1,990,668.6	1,320,457.8

CONTRACT NO. W19HS-04-D-0007

CITY WASILLA STATE ALASKA

CONTRACTOR HUGHES & ASSOCIATES

ALASKA DISTRICT CORPS OF ENGINEERS ANCHORAGE, ALASKA

SELDOVIA, ALASKA SELDOVIA HARBOR PROJECT CONDITION SURVEY MAY 17-20, 2006

SURVEY NO. 2321-06

SCALE: 1" = 50'

SHEET 1 OF 1