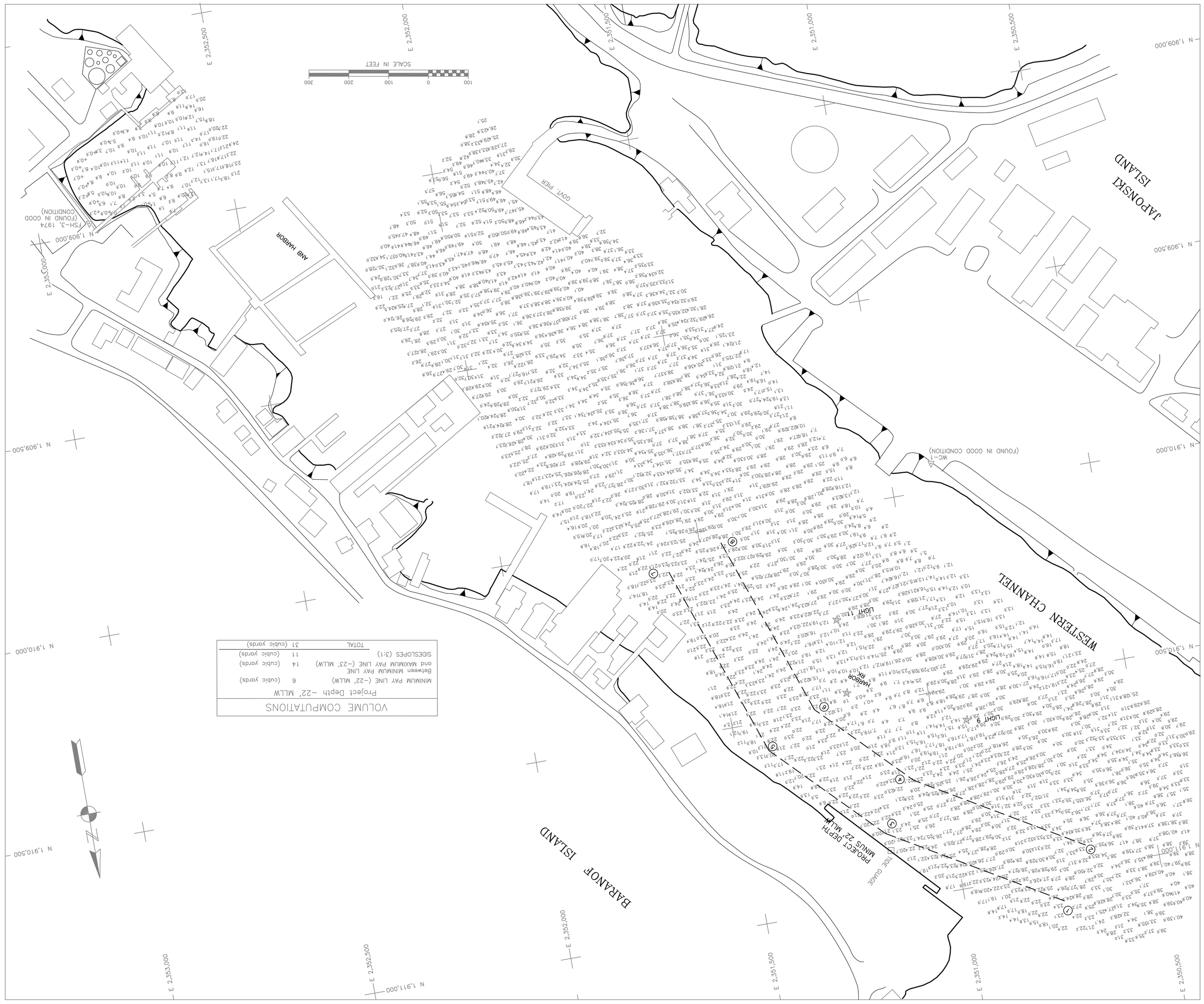
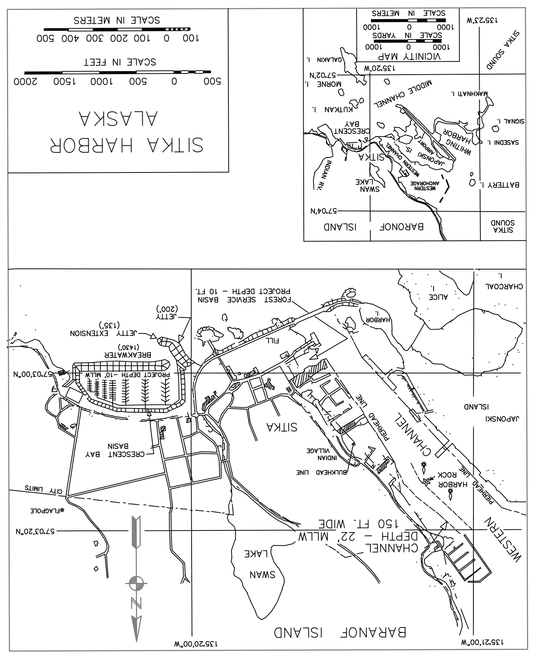


VOLUME COMPUTATIONS

	Project Depth –22', MLLW
MINIMUM PAY LINE (–22, MLLW)	6 (cubic yards)
Between MINIMUM PAY LINE and MAXIMUM PAY LINE	14 (cubic yards)
SIDESLOPES (3:1)	11 (cubic yards)
TOTAL	31 (cubic yards)



NOTES

1. HORIZONTAL CONTROL IS ALASKA STATE PLANE ZONE 1, IN FEET, NORTH AMERICAN DATUM OF 1983, HOLDING USACE SBC "FSH–3, 1974" AS N 1,908,971.52, E 2,352,870.05 AND NOS SBC "TLUNGIT, 1977" AS N 1,911,615.71, E 2,347,611.57.
2. VERTICAL CONTROL IS IN FEET, BASED ON NEAN LOWER LOW WATER(MLLW = 0.0'), HOLDING USCGS TIDAL BENCH MARK "16, 1941" AT 20.36', FROM NOS TIDAL BENCHMARK LIST "ALASKA 945 1600", DATED 10/31/1984 (4 PAGES).
3. THE HORIZONTAL AND VERTICAL CONTROL WERE SURVEYED MAY 5, 2001 USING USING OPTICAL INSTRUMENTS AND CONVENTIONAL TRAVERSE AND DIFFERENTIAL LEVELING TECHNIQUES.
4. SOUNDINGS ARE IN FEET AND ARE MINUS UNLESS OTHERWISE INDICATED.
5. SOUNDINGS WERE COLLECTED ON MAY 7 & 8, 2001. SOUNDINGS WERE COLLECTED USING A "RESON 8124 SEABAT MULTIBEAM SOUNDER (120° SWATH, 80 BEAM FLAT ARRAY TRANSDUCER). SOUND VELOCITY WAS PROFILED AND COLLECTED USING AN "APPLIED MICROSYSTEMS – SVP PLUS" PROFILER. POSITIONING AND VESSEL ATTITUDE WERE MEASURED USING A "SEATEX – SEAPATH 200 RTK" SYSTEM COUPLED WITH A "SEATEX – MRU–5" MOTION REFERENCE UNIT. RTK CORRECTIONS WERE BROADCAST FROM A LOCAL BASE STATION SET AT "WC–1, 1977". DATA WAS COLLECTED AND FIELD PROCESSED USING "RESON 6042". INTEGRATED SOFTWARE WATER LEVEL WAS MEASURED USING A "VNERR LPI ELECTRETT TIDE GAUGE" COUPLED WITH AN "ENDECO TYPE 1029" WATER LEVEL RECORDER. FINAL DATA PROCESSING WAS PERFORMED USING "CARIS HIPS" HDCS SOFTWARE AND TERRA SURVEYS, LLC PROPRIETARY SOFTWARE.
6. SURVEY CONTROL, PROJECT LIMITS AND NAVIGATIONAL AIDS COORDINATES WERE CONVERTED FROM NAD 27 IN US FEET TO NAD 83 IN US FEET USING CORPSCON VERSION 5.11.08.
7. THIS SURVEY INDICATES GENERAL CONDITIONS AT THE TIME OF SURVEY.

CONTROL DATA

STATION	NORTHING	EASTING	ELEV.	DESCRIPTION
BM 16, 1941	–	–	20.36	USCGS SBC
CHAN, 1938	1,914,557.90	2,348,338.20	13.92	USCGS TRI STA SBC
TLUNGIT, 1977	1,911,615.49	2,347,611.01	12.25	NOS SBC
FSH–3, 1974	1,908,971.52	2,352,870.05	18.96	USACE SBC
CRB–1, 2001	1,913,103.86	2,347,178.10	16.93	SET 3.25" DOMED BC
CRB–2, 2001	1,912,131.25	2,347,581.65	16.22	SET 3.25" DOMED BC
WC–1, 1977	1,909,932.49	2,350,883.72	14.73	3.25" AL CAP IN CURB
WC–3, 2001	1,912,051.27	2,350,572.05	16.57	SET 3.25" DOMED BC
WC–4, 2001	1,910,740.86	2,350,124.95	9.21	SET 3.25" DOMED BC

PROJECT LIMITS

LIMIT	NORTHING	EASTING	LIMIT	NORTHING	EASTING
1	1,911,072.9	2,350,754.8	5	1,910,272.2	2,351,419.6
2	1,910,943.9	2,350,678.3	6	1,910,491.1	2,351,289.0
3	1,910,828.0	2,351,167.9	7	1,910,087.3	2,351,589.1
4	1,910,708.9	2,351,074.6	8	1,910,037.8	2,351,447.5

NAVIGATION AIDS

USCG No.	DESCRIPTION	NORTHING	EASTING
25035	HARBOR ROCK DAYBEACON	1,910,463.8	2,351,201.9
25030	SITKA HARBOR CHANNEL LIGHT 9	1,910,582.7	2,350,917.1
25040	SITKA HARBOR LIGHT 11	1,910,278.5	2,351,194.8

CONTRACTOR: TERRA SURVEYS, LLC
CONTRACT NO. DACW85–98–D–0004
CITY: PALMER STATE: ALASKA

ALASKA DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA

SURVEYED: KDW
DRAWN: SGB
CHECKED: TSN
SUBMITTED:

SITKA, ALASKA
WESTERN CHANNEL
PROJECT CONDITION SURVEY
MAY 7–8, 2001

RECOMMENDED: PROJECT MANAGER
APPROVED: CHIEF OPERATIONS–REAL ESTATE BRANCH
DATE:

SURVEY NO. 1907–01
SCALE: 1" = 100'
SHEET 1 OF 1