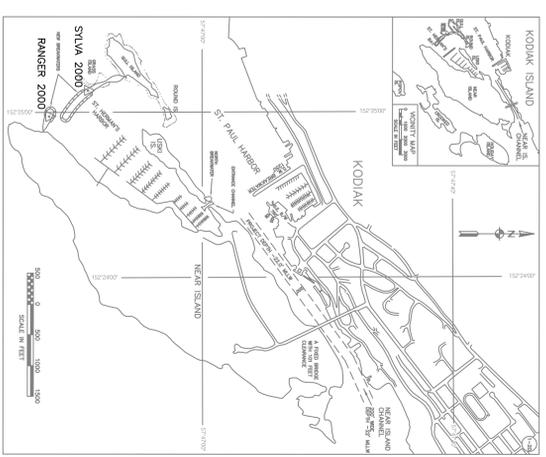
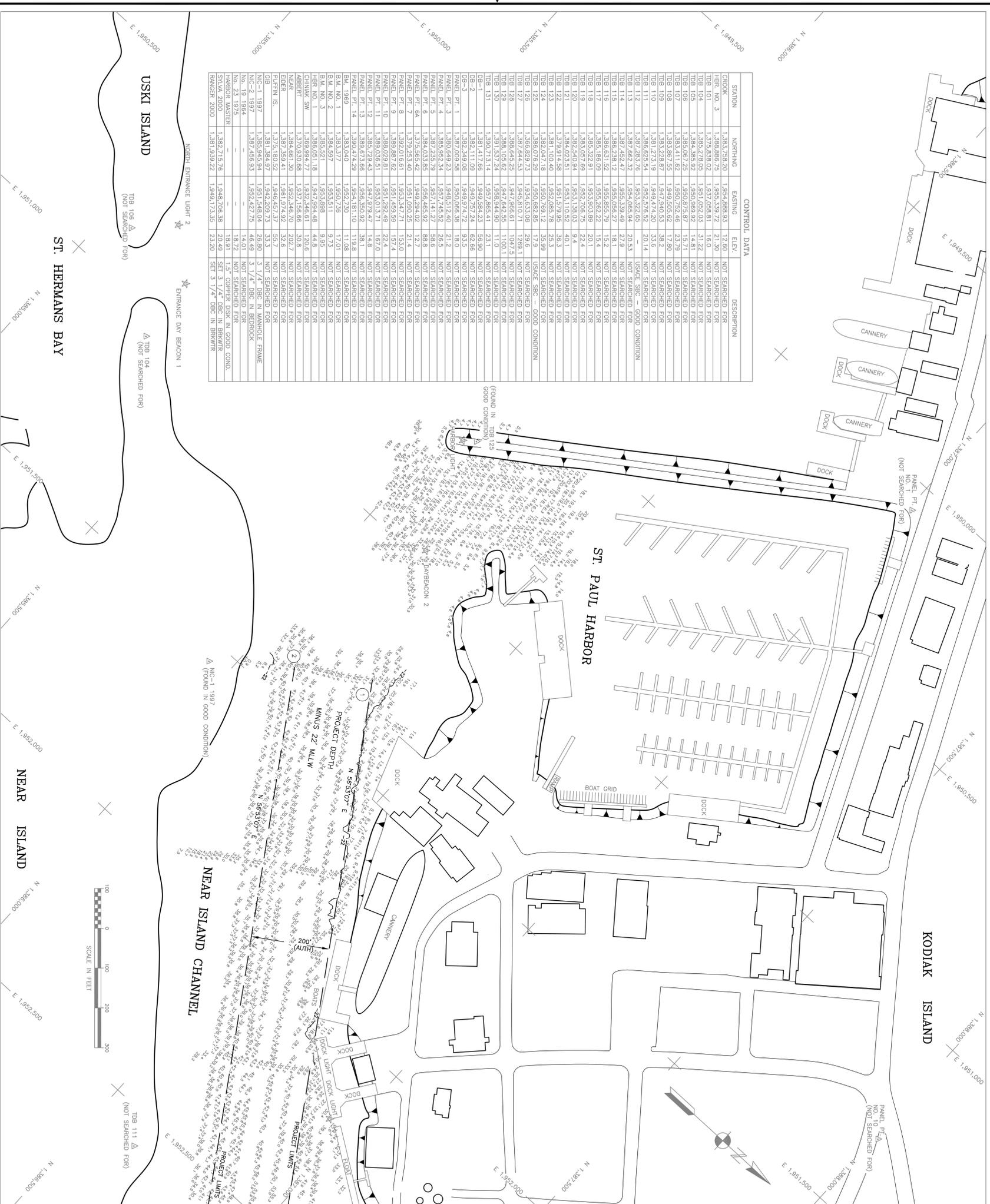


STATION	NORTHING	EASTING	ELEV.	DESCRIPTION
CHOOK	1,383,758.20	1,954,488.93	12.60	NOT SEARCHED FOR
HBR. NO. 3	1,389,896.75	1,955,339.72	21.30	NOT SEARCHED FOR
TBR 101	1,375,838.02	1,937,058.81	16.0	NOT SEARCHED FOR
TBR 104	1,385,278.05	1,951,052.03	31.22	NOT SEARCHED FOR
TBR 105	1,385,285.22	1,950,699.82	15.91	NOT SEARCHED FOR
TBR 106	1,385,411.62	1,950,752.46	23.79	NOT SEARCHED FOR
TBR 107	1,385,867.55	1,949,505.62	17.80	NOT SEARCHED FOR
TBR 108	1,385,228.87	1,947,940.53	38.2	NOT SEARCHED FOR
TBR 109	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TBR 110	1,385,625.34	1,952,575.22	20.14	NOT SEARCHED FOR
TBR 111	1,387,662.32	1,954,065.94	20.53	NOT SEARCHED FOR
TBR 112	1,387,482.47	1,955,339.49	27.9	NOT SEARCHED FOR
TBR 113	1,386,238.12	1,955,056.27	18.1	NOT SEARCHED FOR
TBR 114	1,386,631.52	1,955,855.79	15.2	NOT SEARCHED FOR
TBR 115	1,385,195.09	1,954,426.22	15.4	NOT SEARCHED FOR
TBR 116	1,385,027.69	1,952,706.75	22.4	NOT SEARCHED FOR
TBR 117	1,387,540.94	1,953,180.03	9.4	NOT SEARCHED FOR
TBR 118	1,384,023.51	1,953,110.52	40.1	NOT SEARCHED FOR
TBR 119	1,379,914.58	1,951,579.95	38.3	NOT SEARCHED FOR
TBR 120	1,381,000.46	1,952,058.75	28.29	NOT SEARCHED FOR
TBR 121	1,386,076.29	1,950,482.85	17.9	USACE SBC - GOOD CONDITION
TBR 122	1,387,644.53	1,945,810.71	12.691	NOT SEARCHED FOR
TBR 123	1,385,645.25	1,947,956.61	10.475	NOT SEARCHED FOR
TBR 124	1,385,105.92	1,956,542.30	11.001	NOT SEARCHED FOR
TBR 125	1,381,417.66	1,949,584.23	56.90	NOT SEARCHED FOR
TBR 126	1,382,111.09	1,949,757.24	62.66	NOT SEARCHED FOR
TBR 127	1,382,349.08	1,949,874.72	93.5	NOT SEARCHED FOR
TBR 128	1,382,029.55	1,950,056.26	15.0	NOT SEARCHED FOR
TBR 129	1,385,952.34	1,957,745.52	26.5	NOT SEARCHED FOR
TBR 130	1,387,235.79	1,957,141.27	58.6	NOT SEARCHED FOR
TBR 131	1,384,033.85	1,956,465.92	88.8	NOT SEARCHED FOR
TBR 132	1,375,585.42	1,949,294.02	12.7	NOT SEARCHED FOR
TBR 133	1,372,253.40	1,951,592.25	13.3	NOT SEARCHED FOR
TBR 134	1,381,459.59	1,951,459.59	157.4	NOT SEARCHED FOR
TBR 135	1,381,029.81	1,951,292.49	22.4	NOT SEARCHED FOR
TBR 136	1,385,729.43	1,953,013.71	167.0	NOT SEARCHED FOR
TBR 137	1,386,234.66	1,956,350.92	38.9	NOT SEARCHED FOR
TBR 138	1,385,040.49	1,952,720	11.08	NOT SEARCHED FOR
TBR 139	1,383,377	1,950,726	17.07	NOT SEARCHED FOR
TBR 140	1,384,597	1,953,511	9.73	NOT SEARCHED FOR
TBR 141	1,385,521	1,953,898	9.95	NOT SEARCHED FOR
TBR 142	1,385,051.19	1,947,924.49	44.6	NOT SEARCHED FOR
TBR 143	1,370,930.68	1,927,156.66	30.8	NOT SEARCHED FOR
TBR 144	1,384,661.30	1,952,346.70	202.7	NOT SEARCHED FOR
TBR 145	1,387,359.41	1,961,974.92	32.6	NOT SEARCHED FOR
TBR 146	1,375,180.52	1,946,457.37	55.7	NOT SEARCHED FOR
TBR 147	1,381,394.97	1,942,409.73	32.80	NOT SEARCHED FOR
TBR 148	1,382,427.25	1,952,427.25	46.49	3 1/4" DBC. IN BEDROCK
TBR 149	1,387,456.33	1,952,427.25	14.07	NOT SEARCHED FOR
TBR 150	1,387,456.33	1,952,427.25	18.72	NOT SEARCHED FOR
TBR 151	1,387,715.76	1,948,704.36	20.49	1 1/2" COPPER DISK IN GOOD COND.
TBR 152	1,387,715.76	1,948,704.36	20.49	SET 3 1/4" DBC IN BEDROCK
TBR 153	1,387,715.76	1,948,704.36	20.49	SET 3 1/4" DBC IN BEDROCK
TBR 154	1,387,715.76	1,948,704.36	20.49	SET 3 1/4" DBC IN BEDROCK
TBR 155	1,387,715.76	1,948,704.36	20.49	SET 3 1/4" DBC IN BEDROCK
TBR 156	1,387,715.76	1,948,704.36	20.49	SET 3 1/4" DBC IN BEDROCK
TBR 157	1,387,715.76	1,948,704.36	20.49	SET 3 1/4" DBC IN BEDROCK
TBR 158	1,387,715.76	1,948,704.36	20.49	SET 3 1/4" DBC IN BEDROCK
TBR 159	1,387,715.76	1,948,704.36	20.49	SET 3 1/4" DBC IN BEDROCK
TBR 160	1,387,715.76	1,948,704.36	20.49	SET 3 1/4" DBC IN BEDROCK
TBR 161	1,387,715.76	1,948,704.36	20.49	SET 3 1/4" DBC IN BEDROCK
TBR 162	1,387,715.76	1,948,704.36	20.49	SET 3 1/4" DBC IN BEDROCK
TBR 163	1,387,715.76	1,948,704.36	20.49	SET 3 1/4" DBC IN BEDROCK
TBR 164	1,387,715.76	1,948,704.36	20.49	SET 3 1/4" DBC IN BEDROCK
TBR 165	1,387,715.76	1,948,704.36	20.49	SET 3 1/4" DBC IN BEDROCK
TBR 166	1,387,715.76	1,948,704.36	20.49	SET 3 1/4" DBC IN BEDROCK
TBR 167	1,387,715.76	1,948,704.36	20.49	SET 3 1/4" DBC IN BEDROCK
TBR 168	1,387,715.76	1,948,704.36	20.49	SET 3 1/4" DBC IN BEDROCK
TBR 169	1,387,715.76	1,948,704.36	20.49	SET 3 1/4" DBC IN BEDROCK
TBR 170	1,387,715.76	1,948,704.36	20.49	SET 3 1/4" DBC IN BEDROCK
TBR 171	1,387,715.76	1,948,704.36	20.49	SET 3 1/4" DBC IN BEDROCK
TBR 172	1,387,715.76	1,948,704.36	20.49	SET 3 1/4" DBC IN BEDROCK
TBR 173	1,387,715.76	1,948,704.36	20.49	SET 3 1/4" DBC IN BEDROCK
TBR 174	1,387,715.76	1,948,704.36	20.49	SET 3 1/4" DBC IN BEDROCK
TBR 175	1,387,715.76	1,948,704.36	20.49	SET 3 1/4" DBC IN BEDROCK
TBR 176	1,387,715.76	1,948,704.36	20.49	SET 3 1/4" DBC IN BEDROCK
TBR 177	1,387,715.76	1,948,704.36	20.49	SET 3 1/4" DBC IN BEDROCK
TBR 178	1,387,715.76	1,948,704.36	20.49	SET 3 1/4" DBC IN BEDROCK
TBR 179	1,387,715.76	1,948,704.36	20.49	SET 3 1/4" DBC IN BEDROCK
TBR 180	1,387,715.76	1,948,704.36	20.49	SET 3 1/4" DBC IN BEDROCK
TBR 181	1,387,715.76	1,948,704.36	20.49	SET 3 1/4" DBC IN BEDROCK
TBR 182	1,387,715.76	1,948,704.36	20.49	SET 3 1/4" DBC IN BEDROCK
TBR 183	1,387,715.76	1,948,704.36	20.49	SET 3 1/4" DBC IN BEDROCK
TBR 184	1,387,715.76	1,948,704.36	20.49	SET 3 1/4" DBC IN BEDROCK
TBR 185	1,387,715.76	1,948,704.36	20.49	SET 3 1/4" DBC IN BEDROCK
TBR 186	1,387,715.76	1,948,704.36	20.49	SET 3 1/4" DBC IN BEDROCK
TBR 187	1,387,715.76	1,948,704.36	20.49	SET 3 1/4" DBC IN BEDROCK
TBR 188	1,387,715.76	1,948,704.36	20.49	SET 3 1/4" DBC IN BEDROCK
TBR 189	1,387,715.76	1,948,704.36	20.49	SET 3 1/4" DBC IN BEDROCK
TBR 190	1,387,715.76	1,948,704.36	20.49	SET 3 1/4" DBC IN BEDROCK
TBR 191	1,387,715.76	1,948,704.36	20.49	SET 3 1/4" DBC IN BEDROCK
TBR 192	1,387,715.76	1,948,704.36	20.49	SET 3 1/4" DBC IN BEDROCK
TBR 193	1,387,715.76	1,948,704.36	20.49	SET 3 1/4" DBC IN BEDROCK
TBR 194	1,387,715.76	1,948,704.36	20.49	SET 3 1/4" DBC IN BEDROCK
TBR 195	1,387,715.76	1,948,704.36	20.49	SET 3 1/4" DBC IN BEDROCK
TBR 196	1,387,715.76	1,948,704.36	20.49	SET 3 1/4" DBC IN BEDROCK
TBR 197	1,387,715.76	1,948,704.36	20.49	SET 3 1/4" DBC IN BEDROCK
TBR 198	1,387,715.76	1,948,704.36	20.49	SET 3 1/4" DBC IN BEDROCK
TBR 199	1,387,715.76	1,948,704.36	20.49	SET 3 1/4" DBC IN BEDROCK
TBR 200	1,387,715.76	1,948,704.36	20.49	SET 3 1/4" DBC IN BEDROCK



- NOTES**
- HORIZONTAL CONTROL IS ALASKA STATE PLANE ZONE 5, IN FEET, NORTH AMERICAN DATUM OF 1983, HOLDING BC "NC-1 1997" AS N 1,385,945.94, E 1,951,548.04 AND BC "NC-1 1997" AS N 1,387,456.93, E 1,952,427.25.
 - VERTICAL CONTROL IS IN FEET, BASED ON MEAN LOWER LOW WATER (MLLW = 0.07), (ROUND UP/DOWN) TO NEAREST MILLIMETER AND 1/4" DBC. MLLW IS 1.387,456.93, E 1,952,427.25.
 - FOUNDING WERE COLLECTED ON JUNE 22-23, 2000 USING A CROSS 990 QUANTUM WITH 122 RECEIVER OPERATING ON CORPS CORRECTIONS FROM A TRIMBLE LPT TELEMETRY TRIP SET AS SHOWN. DATA WERE COLLECTED AND REDUCED USING FREEDOM INTERFERED SOFTWARE.
 - THIS DRAWING INDICATES GENERAL CONDITIONS AT THE TIME OF SURVEY.
 - SURVEY CONTROL, PROJECT LIMITS AND NAVIGATIONAL AIDS COORDINATES WERE CONVERTED (CONVERTED METHODS) FEET TO MDS IN US SURVEY FEET USING CONVERSION 51.101.
 - THE HORIZONTAL AND VERTICAL CONTROL WERE SURVEYED JUNE 20-25, 2000 USING

VOLUME COMPUTATIONS

Project Depth -22 MLLW

CORNER	NORTHING	EASTING	CORNER	NORTHING	EASTING
CHANNEL 1	1,386,284.33	1,951,303.23	CHANNEL 4	1,387,736.88	1,953,896.52
CHANNEL 2	1,386,116.80	1,951,412.50	CHANNEL 5	1,389,093.89	1,954,252.24
CHANNEL 3	1,387,914.51	1,953,502.43	CHANNEL 6	1,387,216.46	1,954,346.33

NAVIGATION AIDS

USCG No.	DESCRIPTION	NORTHING	EASTING
28616	KODIAK FERRY DOCK LIGHT (NORTH)	1,386,382	1,952,022
28615	KODIAK FERRY DOCK LIGHT (SOUTH)	1,386,642	1,952,191
28620	KODIAK BOAT HARBOR DIVERGATION 2	1,386,158	1,950,971
28630	KODIAK BOAT HARBOR LIGHT 1	1,386,048	1,950,704
28635	ST. HERMANS BAY NORTH ENTRANCE DIVERGATION 1	1,385,663	1,950,886
28640	ST. HERMANS BAY NORTH ENTRANCE LIGHT 2	1,385,151	1,950,789

CONTRACT NO. DACW95-98-1-0004
 CONTRACTOR: TERESA SIMONS, LLC
 STATE: ALASKA
 CITY: PALMER

ALASKA DISTRICT
 CORPS OF ENGINEERS
 ANCHORAGE, ALASKA

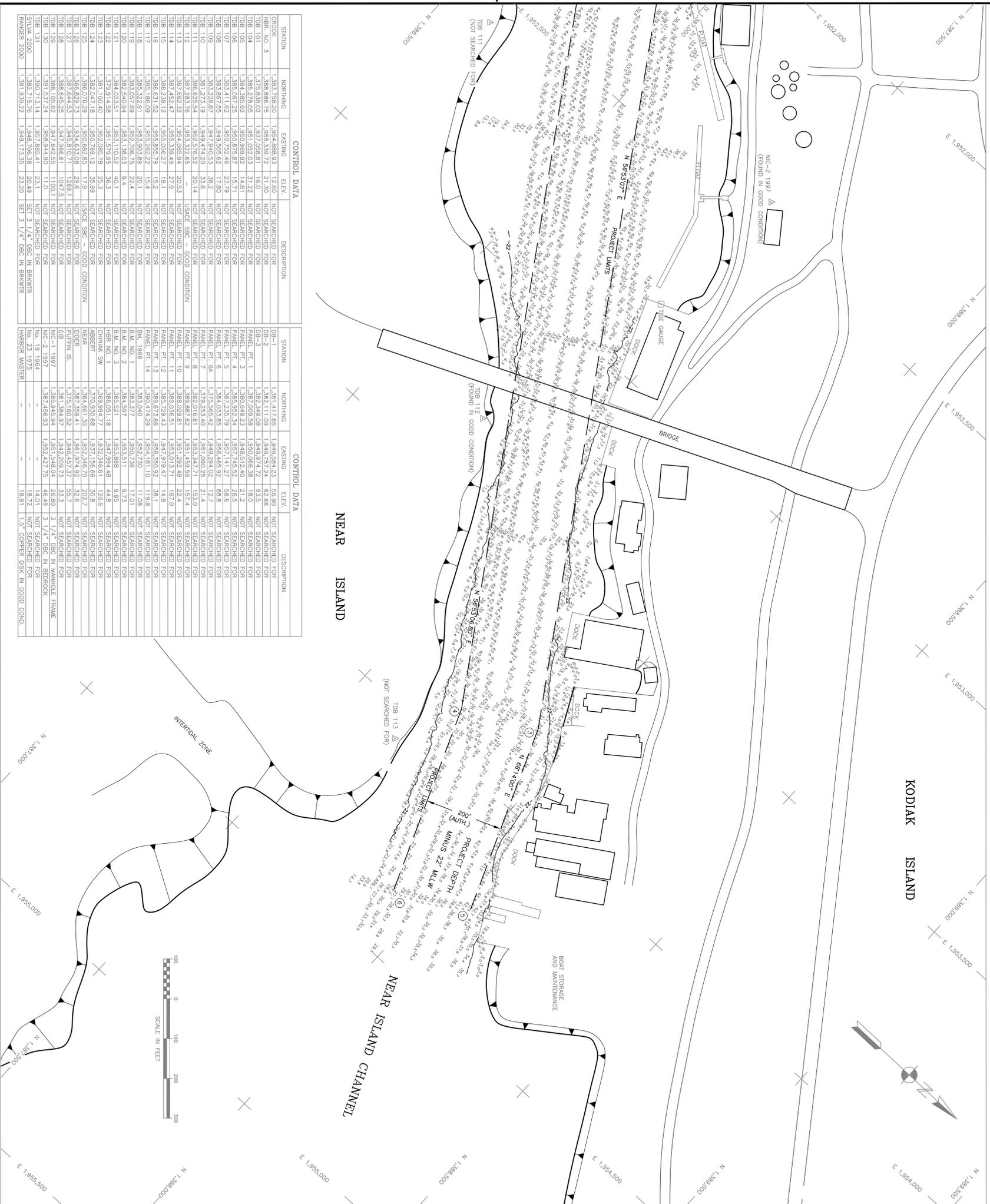
KODIAK, ALASKA
 NEAR ISLAND CHANNEL
 PROJECT CONDITION SURVEY
 JUNE 22-23, 2000

APPROVED: [Signature]
 DATE: [Date]

RECOMMENDED: [Signature]
 DATE: [Date]

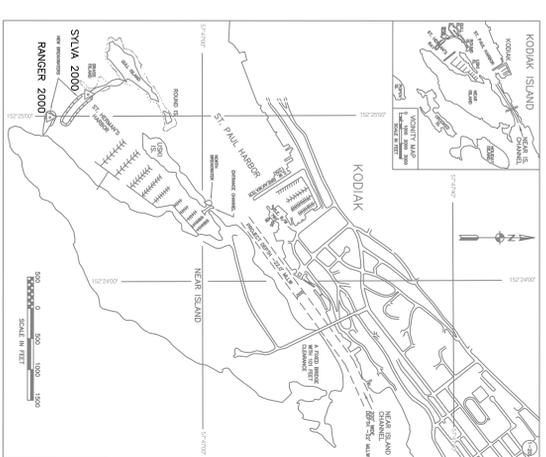
SCALE: 1" = 100'

SURVEY NO. 1868-00
 SHEET 1 OF 2



STATION	NORTHING	EASTING	ELEV.	DESCRIPTION
CHOOK	1,393,758.20	1,954,888.93	12.60	NOT SEARCHED FOR
HRR NO. 3	1,398,886.75	1,955,539.72	21.30	NOT SEARCHED FOR
TDB 101	1,392,598.02	1,952,058.61	16.0	NOT SEARCHED FOR
TDB 102	1,392,598.02	1,952,058.61	16.0	NOT SEARCHED FOR
TDB 106	1,394,385.92	1,950,669.92	14.81	NOT SEARCHED FOR
TDB 107	1,395,067.25	1,950,875.87	15.71	NOT SEARCHED FOR
TDB 108	1,393,411.62	1,950,752.46	23.79	NOT SEARCHED FOR
TDB 109	1,393,867.85	1,949,505.62	17.80	NOT SEARCHED FOR
TDB 110	1,393,228.92	1,949,949.53	38.2	NOT SEARCHED FOR
TDB 111	1,392,625.54	1,952,576.52	20.14	NOT SEARCHED FOR
TDB 112	1,397,283.76	1,953,322.65	-	USACE SIRC - GOOD CONDITION
TDB 113	1,397,662.32	1,954,055.94	20.53	NOT SEARCHED FOR
TDB 114	1,397,452.47	1,955,539.49	27.9	NOT SEARCHED FOR
TDB 115	1,398,238.72	1,955,058.42	16.1	NOT SEARCHED FOR
TDB 116	1,398,166.09	1,955,662.22	15.4	NOT SEARCHED FOR
TDB 117	1,395,322.91	1,953,903.89	20.1	NOT SEARCHED FOR
TDB 118	1,395,057.69	1,952,706.75	22.4	NOT SEARCHED FOR
TDB 119	1,395,057.69	1,953,188.03	9.4	NOT SEARCHED FOR
TDB 120	1,395,057.69	1,953,188.03	9.4	NOT SEARCHED FOR
TDB 121	1,395,057.69	1,953,188.03	9.4	NOT SEARCHED FOR
TDB 122	1,395,057.69	1,953,188.03	9.4	NOT SEARCHED FOR
TDB 123	1,391,000.40	1,952,085.78	25.3	NOT SEARCHED FOR
TDB 124	1,392,047.18	1,950,682.85	17.9	USACE SIRC - GOOD CONDITION
TDB 125	1,396,076.29	1,950,682.85	29.6	NOT SEARCHED FOR
TDB 126	1,396,076.29	1,950,682.85	29.6	NOT SEARCHED FOR
TDB 127	1,396,076.29	1,950,682.85	29.6	NOT SEARCHED FOR
TDB 128	1,396,076.29	1,950,682.85	29.6	NOT SEARCHED FOR
TDB 129	1,396,076.29	1,950,682.85	29.6	NOT SEARCHED FOR
TDB 130	1,391,537.24	1,950,944.90	11.0	NOT SEARCHED FOR
TDB 131	1,390,713.14	1,957,865.41	23.1	NOT SEARCHED FOR
STVA 2000	1,392,715.76	1,948,706.38	20.49	NOT SEARCHED FOR
RANGER 2000	1,391,939.22	1,949,173.35	23.20	NOT SEARCHED FOR

STATION	NORTHING	EASTING	ELEV.	DESCRIPTION
DB-1	1,391,417.66	1,949,584.23	56.90	NOT SEARCHED FOR
DB-2	1,392,111.09	1,949,757.24	62.66	NOT SEARCHED FOR
DB-3	1,392,092.98	1,949,662.36	18.5	NOT SEARCHED FOR
PANEL PT. 1	1,392,092.98	1,949,662.36	18.5	NOT SEARCHED FOR
PANEL PT. 3	1,390,649.23	1,948,512.40	21.2	NOT SEARCHED FOR
PANEL PT. 4	1,395,952.24	1,957,745.52	28.5	NOT SEARCHED FOR
PANEL PT. 5	1,397,235.79	1,957,141.27	58.6	NOT SEARCHED FOR
PANEL PT. 6	1,398,033.85	1,956,485.92	88.8	NOT SEARCHED FOR
PANEL PT. 7	1,397,583.42	1,959,429.02	21.7	NOT SEARCHED FOR
PANEL PT. 8	1,392,016.61	1,953,347.71	15.0	NOT SEARCHED FOR
PANEL PT. 9	1,398,897.82	1,951,459.59	19.74	NOT SEARCHED FOR
PANEL PT. 10	1,398,029.81	1,951,292.49	22.4	NOT SEARCHED FOR
PANEL PT. 11	1,398,029.81	1,953,013.71	16.70	NOT SEARCHED FOR
PANEL PT. 12	1,398,029.81	1,952,729.43	18.8	NOT SEARCHED FOR
PANEL PT. 13	1,390,474.81	1,952,446.61	120.6	NOT SEARCHED FOR
PANEL PT. 14	1,390,474.29	1,954,181.10	119.8	NOT SEARCHED FOR
BM 1989	1,395,040	1,952,730	11.08	NOT SEARCHED FOR
BM NO. 1	1,395,377	1,950,736	17.01	NOT SEARCHED FOR
BM NO. 2	1,394,597	1,953,511	9.73	NOT SEARCHED FOR
BM NO. 3	1,395,521	1,953,598.48	9.95	NOT SEARCHED FOR
BM NO. 4	1,395,521	1,953,598.48	9.95	NOT SEARCHED FOR
CHINUK SW	1,390,994.77	1,932,346.61	120.6	NOT SEARCHED FOR
ABBRIT	1,391,930.58	1,937,156.66	30.8	NOT SEARCHED FOR
NEAR	1,394,661.50	1,952,346.70	202.7	NOT SEARCHED FOR
EOTER	1,397,399.41	1,961,974.92	32.6	NOT SEARCHED FOR
DUFIN US	1,391,800.52	1,946,551.71	35.3	NOT SEARCHED FOR
DUFIN	1,391,800.52	1,946,551.71	35.3	NOT SEARCHED FOR
NIC-1 1997	1,395,945.94	1,951,548.04	26.80	3 1/4" DBC IN MANHOLE FRAME
NIC-2 1997	1,397,456.93	1,952,427.75	46.49	3 1/4" DBC IN BEDROCK
No. 19 1964	-	-	14.01	NOT SEARCHED FOR
No. 23 1975	-	-	18.91	1.5 COPPER DISK IN GOOD COND.



- NOTES**
- HORIZONTAL CONTROL IS ALASKA STATE PLANE ZONE 5, IN FEET, NORTH AMERICAN DATUM OF 1983, HOLDING BC "NIC-1 1997" AS N 1,395,945.94, E 1,951,548.04 AND BC "NIC-2 1997" AS N 1,397,456.93, E 1,952,427.75.
 - VERTICAL CONTROL IS IN FEET, BASED ON MEAN LOWER LOW WATER (MLLW = 0.0').
 - HOLDING NOS/JSCS TIDAL BENCH MARK NO. 19 1964 AS 14.01' ABOVE MLLW.
 - HOLDING NOS/JSCS TIDAL BENCH MARK ALASKA 945 72611, PUBLICATION DATE NOV. 13, 1990, 3 PAGES.
 - SOUNDINGS ARE IN FEET AND ARE MINUS UNLESS OTHERWISE INDICATED.
 - SOUNDINGS WERE COLLECTED ON JUNE 22-23, 2000 USING A ROSS 990 SMARTSOUNDER WITH 122 RECEIVER OPERATING ON DGPS CORRECTIONS FROM A TRIMBLE 4000SSI BASE STATION SET AT "NIC-1 1997". WATER LEVEL WAS MEASURED USING A TYNER LPT TELEMETRY TIDE GAUGE SET AS SHOWN. DATA WAS COLLECTED AND REDUCED USING HYPACK INTERGRAPHED SOFTWARE.
 - THIS DRAWING INDICATES GENERAL CONDITIONS AT THE TIME OF SURVEY.
 - SURVEY CONTROL, PROJECT LIMITS AND NAVIGATIONAL AIDS COORDINATES WERE CONVERTED FROM NAD 27 TO US SURVEY FEET TO NAD 83 IN US SURVEY FEET USING CONVERSION 511.01.
 - THE HORIZONTAL AND VERTICAL CONTROL WERE SURVEYED JUNE 20-25, 2000 USING CONVENTIONAL METHODS.

VOLUME COMPUTATIONS

MINIMUM PAY LINE* (-22' MLLW)	404 (cubic yards)
BETWEEN MINIMUM PAY LINE* and MAXIMUM PAY LINE* (-23' MLLW)	485 (cubic yards)
SIDE SLOPE	1346 (cubic yards)
TOTAL	2235 (cubic yards)

*TOTALS ON THIS PROJECT LIMITS ARE FOR UNDESIGNED SIRC STRUCTURES.

PROJECT LIMITS

CORNER	NORTHING	EASTING	CORNER	NORTHING	EASTING
CORNER 1	1,398,294.33	1,957,103.23	CHANNEL 4	1,392,726.89	1,952,895.92
CORNER 2	1,397,814.31	1,953,802.43	CHANNEL 5	1,392,726.89	1,952,895.92
CORNER 3	1,397,814.31	1,953,802.43	CHANNEL 6	1,392,726.89	1,952,895.92

NAVIGATOR AIDS

USCG No.	DESCRIPTION	NORTHING	EASTING
26615	KODIAK FERRY DOCK LIGHT (SOUTH)	1,398,283	1,952,023
26615	KODIAK FERRY DOCK LIGHT (NORTH)	1,396,647	1,952,191
26620	KODIAK BOAT HARBOR DAYBEACON 2	1,396,165	1,950,971
26630	KODIAK BOAT HARBOR LIGHT 1	1,395,048	1,950,886
26635	ST. HERMAN BAY NORTH ENTRANCE DAYBEACON 1	1,395,663	1,950,886
26640	ST. HERMAN BAY NORTH ENTRANCE LIGHT 2	1,395,151	1,950,789

CONTRACT NO. **DACW85-98-D-0004**

CONTRACTOR **TEBERA SURVEYS, LLC** STATE **ALASKA**

OWNER **PAUMER**

PROJECT **ALASKA DISTRICT NEAR ISLAND CHANNEL ANCHORAGE, ALASKA**

SURVEYED **K.D.W./A.S.D.**

DESIGNED **L.E.S./M.A.F.**

CHECKED **T.S.N.**

SUBMITTED

RECOMMENDED

APPROVED

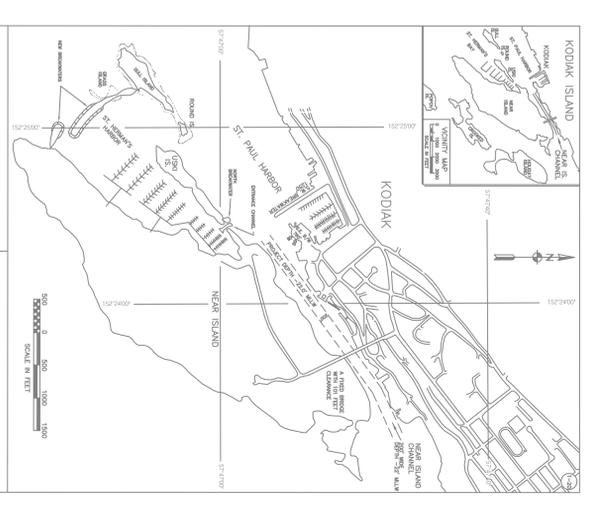
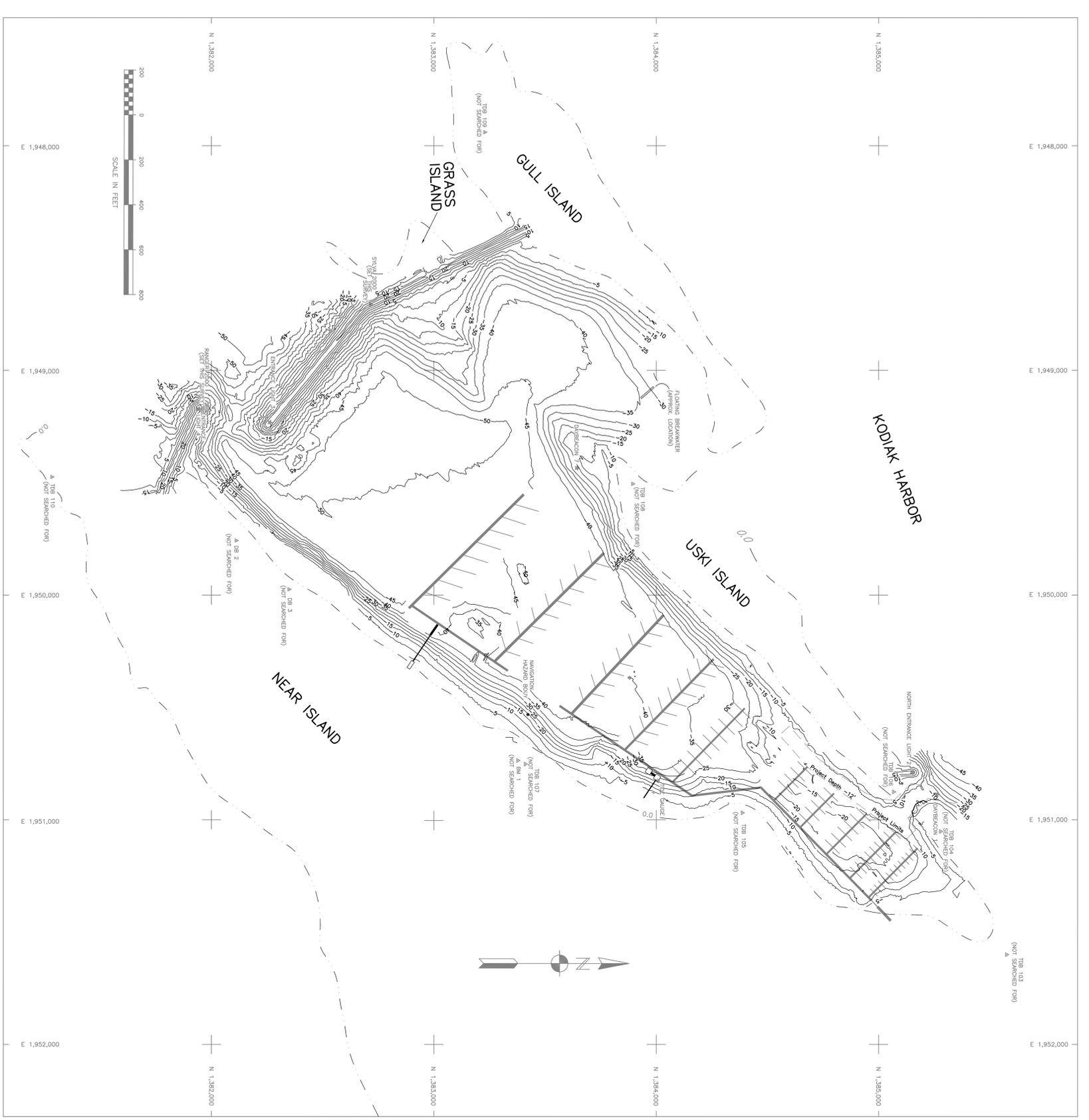
DATE

KODIAK, ALASKA NEAR ISLAND CHANNEL PROJECT CONDITION SURVEY JUNE 22-23, 2000

SCALE 1" = 100'

SHEET 2 OF 2

SURVEY NO. **1868-00**



- NOTES:**
- HORIZONTAL CONTROL IS ALASKA STATE PLANE ZONE 5, IN FEET, NORTH AMERICAN DATUM OF 1983, HOLDING OBC. NAD 83 IS N 1,387,456.931, E 1,952,427.775.
 - VERTICAL CONTROL IS IN FEET, BASED ON MEAN LOWER LOW WATER (MLLW = 0.0'). HOLDING NOS/DIGS TIDAL BENCH MARK AUSA4 949 725.1, PUBLICATION DATE NOV. 13, 1990, 3 PAGES.
 - SOUNDINGS ARE IN FEET AND ARE MINUS UNLESS OTHERWISE INDICATED.
 - BATHYMETRY WAS COLLECTED ON JUNE 24-25, 2000 USING A ROSS 950 SMARTSOUNDER WITH RANGING OPERATING ON DOPS CORRECTIONS FROM A TRIMBLE 4000SS BASE STATION SET AT NAD 83. WATER LEVEL WAS MEASURED USING A VYNER LPT TELEMETRY TIDE GAUGE SET AS SHOWN. DATA WAS COLLECTED AND REDUCED USING HYDRAP INTEGRATED SOFTWARE.
 - THIS DRAWING INDICATES GENERAL CONDITIONS AT THE TIME OF SURVEY.
 - SURVEY CONTROL, PROJECT LIMITS AND NAVIGATIONAL AID COMPONENTS WERE CONVERTED FROM NAD 27 TO US SURVEY FEET TO NAD 83 IN US SURVEY FEET USING COPSON'S 5.11.01.
 - THE HORIZONTAL AND VERTICAL CONTROL WERE SURVEYED JUNE 20-25, 2000 USING CONVENTIONAL METHODS.

CORNER	NORTHING	EASTING	ELEV.	DESCRIPTION
1	1,385,346.97	1,950,927.80	11	NOT SEARCHED FOR
2	1,385,221.88	1,950,905.60	12	NOT SEARCHED FOR
3	1,385,121.21	1,950,922.23	13	NOT SEARCHED FOR
4	1,385,122.94	1,951,097.50	15	NOT SEARCHED FOR
5	1,384,685.03	1,950,923.22	7	NOT SEARCHED FOR
6	1,384,554.03	1,951,412.50	9	NOT SEARCHED FOR
7	1,384,598.83	1,950,983.33	8	NOT SEARCHED FOR
8	1,384,725.24	1,950,725.44	9	NOT SEARCHED FOR
9	1,384,725.24	1,950,725.44	10	NOT SEARCHED FOR
10	1,384,725.24	1,950,725.44	10	NOT SEARCHED FOR

STATION	NORTHING	EASTING	ELEV.	DESCRIPTION
TB9-103	1,385,578.60	1,951,601.05	17.42	NOT SEARCHED FOR
TB9-104	1,385,278.05	1,951,052.03	31.22	NOT SEARCHED FOR
TB9-105	1,384,385.92	1,950,969.92	14.81	NOT SEARCHED FOR
TB9-106	1,385,047.25	1,950,975.87	15.71	NOT SEARCHED FOR
TB9-107	1,383,867.45	1,949,905.62	17.60	NOT SEARCHED FOR
TB9-108	1,383,228.87	1,947,940.53	38.2	NOT SEARCHED FOR
TB9-109	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-110	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-111	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-112	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-113	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-114	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-115	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-116	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-117	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-118	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-119	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-120	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-121	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-122	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-123	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-124	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-125	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-126	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-127	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-128	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-129	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-130	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-131	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-132	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-133	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-134	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-135	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-136	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-137	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-138	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-139	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-140	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-141	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-142	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-143	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-144	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-145	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-146	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-147	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-148	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-149	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-150	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-151	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-152	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-153	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-154	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-155	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-156	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-157	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-158	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-159	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-160	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-161	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-162	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-163	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-164	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-165	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-166	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-167	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-168	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-169	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-170	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-171	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-172	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-173	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-174	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-175	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-176	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-177	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-178	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-179	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-180	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-181	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-182	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-183	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-184	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-185	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-186	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-187	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-188	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-189	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-190	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-191	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-192	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-193	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-194	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-195	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-196	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-197	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-198	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-199	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
TB9-200	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR

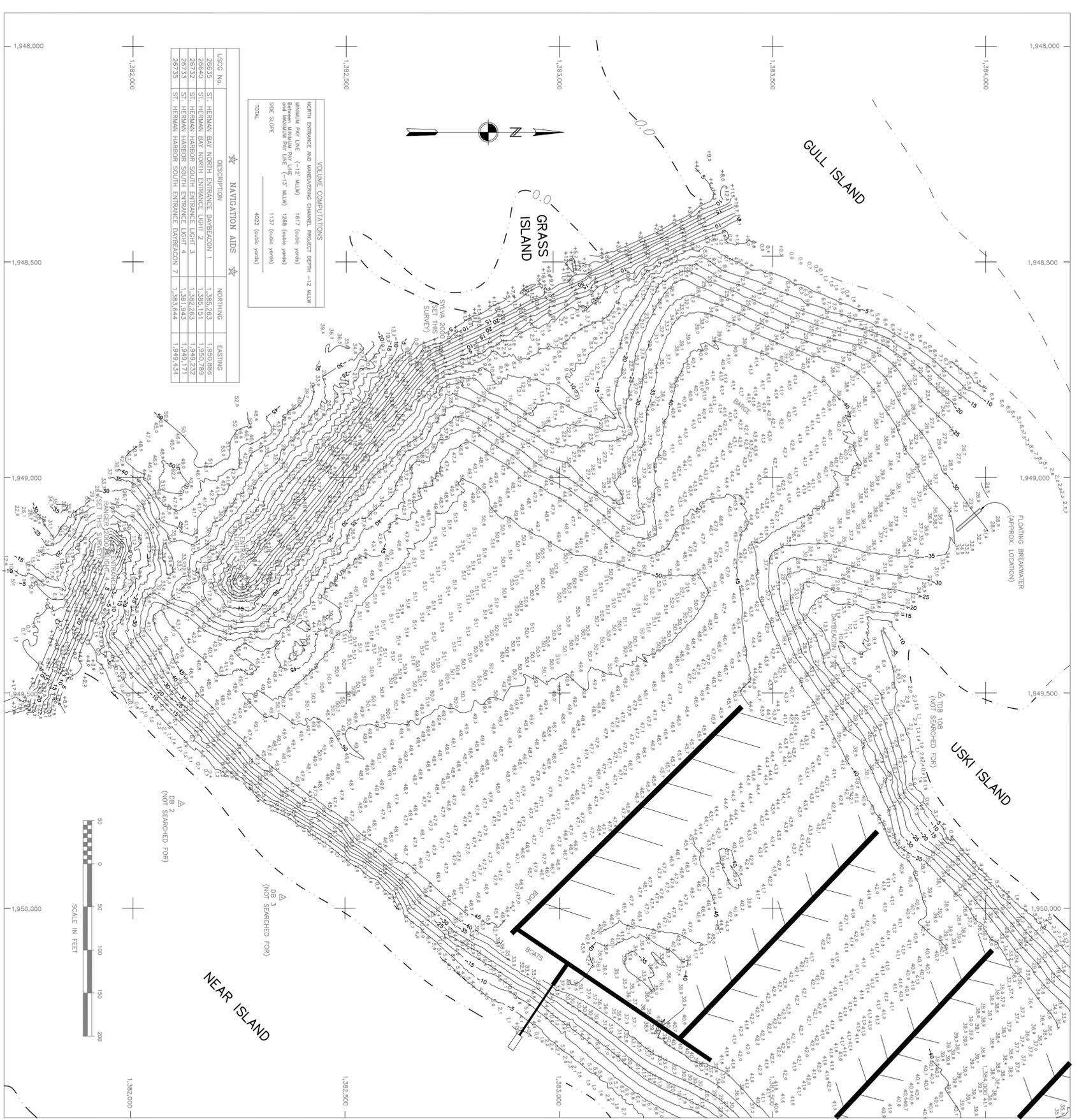
CONTRACTOR: TERRA SURVEYS, LLC
CITY: PALMER
STATE: ALASKA

CONTRACT NO.: DKMS-08-D-0004

SURVEYED: KODIAK HARBOR, ALASKA
PROJECT: ST. HERMAN'S HARBOR PROJECT CONDITION SURVEY
DATE: JUNE 24-25, 2000

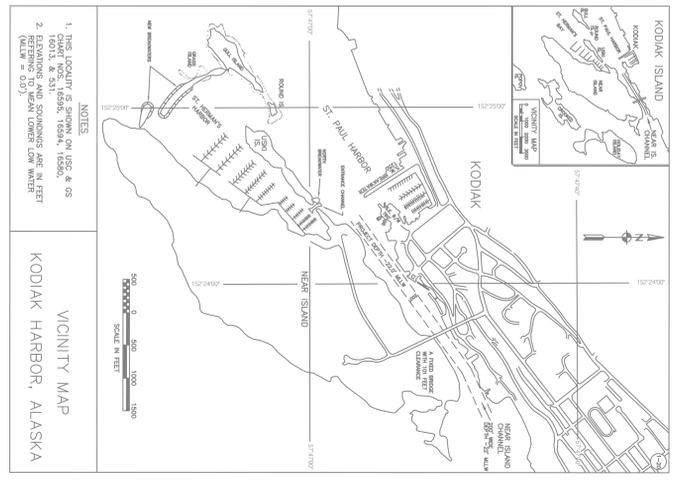
SCALE: 1" = 200'

SHEET: 1 OF 3



USCG No.	DESCRIPTION	NORTHING	EASTING
26835	ST. HERMAN BAY NORTH ENTRANCE DAYBEACON 1	1,385,293	1,950,286
26840	ST. HERMAN BAY NORTH ENTRANCE LIGHT 2	1,385,151	1,950,286
26732	ST. HERMAN HARBOR SOUTH ENTRANCE LIGHT 3	1,382,253	1,949,232
26733	ST. HERMAN HARBOR SOUTH ENTRANCE LIGHT 4	1,381,943	1,949,171
26735	ST. HERMAN HARBOR SOUTH ENTRANCE DAYBEACON 7	1,385,644	1,949,434

DESCRIPTION	VOLUME COMPUTATIONS
NORTH ENTRANCE AND WANDERING CHANNEL PROJECT DEPTH -12 MLLW	1617 (Cubic yards)
MINIMUM PAY LINE (-12' MLLW)	1288 (Cubic yards)
and MAXIMUM PAY LINE (-13' MLLW)	1137 (Cubic yards)
SITE SQUARE	
TOTAL	4222 (Cubic yards)



NOTES

- HORIZONTAL CONTROL IS ALASKA STATE PLANE ZONE 5, IN FEET, NORTH AMERICAN DATUM 1983. ELEVATION DATA IS FROM 1987 U.S. NAVY CHARTS AND DBC (NOV 1987).
- VERTICAL CONTROL IS IN FEET BASED ON MEAN LOWER LOW WATER (MLLW ± 0.01'). HORIZONTAL POSITIONS ARE IN FEET FROM A TRIMBLE ADRESS BESE STATION SET AT NTC-1 (FROM NOS/USCGS TOLL BENCH MARK ALASKA 945 7261, PUBLICATION DATE NOV. 13, 1990, 3 PAGES).
- SOUNDINGS ARE IN FEET AND ARE MINUS UNLESS OTHERWISE INDICATED.
- BATHYMETRY WAS COLLECTED ON JUNE 24-25, 2000 USING A ROSS 950 SMARTSOUNDER WITH A 200kHz, 3° BEAM WIDTH TRANSDUCER. POSITIONS WERE DETERMINED USING A TRIMBLE AGPS122 RECEIVER OPERATING ON DGPS CORRECTIONS FROM A TRIMBLE ADDRESS BESE STATION SET AT NTC-1. HORIZONTAL POSITIONS AND DEPTHS WERE COLLECTED AND REDUCED USING HYPERACK INTEGRATED SOFTWARE. DATA WAS COLLECTED AND REDUCED USING HYPERACK INTEGRATED SOFTWARE. CHART SET AS SHOWN.
- THIS DRAWING INDICATES GENERAL CONDITIONS AT THE TIME OF SURVEY.
- SURVEY CONTROL, PROJECT LIMITS AND NAVIGATION AIDS CORRECTIONS WERE CONVERTED FROM NAD 27 IN US SURVEY FEET TO NAD 83 IN US SURVEY FEET USING CORPCON 5.11.01.
- THE HORIZONTAL AND VERTICAL CONTROL WERE SURVEYED JUNE 20-25, 2000 USING CONVENTIONAL METHODS.

PROJECT LIMITS

CORNER	NORTHING	EASTING	CORNER	NORTHING	EASTING
1	1,385,546.97	1,950,927.80	11	1,385,015.44	1,950,908.61
2	1,385,221.88	1,950,905.60	12	1,385,070.13	1,950,912.27
3	1,385,131.21	1,950,992.25	13	1,385,148.08	1,950,838.42
4	1,385,165.53	1,951,046.80	14	1,385,186.33	1,950,844.57
5	1,385,122.94	1,951,087.50	15	1,385,244.31	1,950,789.17
6	1,384,554.03	1,951,412.50	7	1,384,554.03	1,950,834.33
7	1,384,558.83	1,950,834.33	8	1,384,725.54	1,950,725.44
8	1,384,725.54	1,950,725.44	9	1,384,725.54	1,950,725.44
9	1,384,725.54	1,950,725.44	10	1,384,725.54	1,950,725.44

CONTROL DATA

STATION	NORTHING	EASTING	ELEV.	DESCRIPTION
T08-103	1,385,578.60	1,951,601.05	17.42	NOT SEARCHED FOR
T08-104	1,385,278.05	1,951,052.03	31.22	NOT SEARCHED FOR
T08-105	1,384,385.92	1,950,989.92	14.81	NOT SEARCHED FOR
T08-106	1,385,087.25	1,950,979.87	19.71	NOT SEARCHED FOR
T08-107	1,385,887.55	1,950,925.62	27.80	NOT SEARCHED FOR
T08-108	1,385,228.87	1,947,460.53	38.2	NOT SEARCHED FOR
T08-109	1,381,273.19	1,949,474.20	33.6	NOT SEARCHED FOR
T08-110	1,381,283.76	1,953,322.65	—	FOUND IN GOOD CONDITION
T08-112	1,386,076.29	1,950,992.89	17.90	FOUND IN GOOD CONDITION
T08-125	1,382,215.76	1,948,705.38	20.40	FOUND IN GOOD CONDITION
STATION 2000	1,381,939.22	1,949,173.35	23.20	SET THIS SURVEY
RANGER 2000	1,385,945.94	1,951,548.04	28.80	FOUND IN GOOD CONDITION
NC-1 1987	1,385,945.94	1,952,427.75	48.49	FOUND IN GOOD CONDITION
DB-2	1,382,111.09	1,949,757.24	62.68	NOT SEARCHED FOR
DB-3	1,382,149.08	1,949,574.72	18.31	FOUND IN GOOD CONDITION

CONTRACTOR: **TERA SURVEYS, LLC** DRAWING NO.: **DACS-88-D-0004**
 CITY: **FALMER** STATE: **ALASKA**

ALASKA DISTRICT
 CORPS OF ENGINEERS
 ANCHORAGE, ALASKA

KODIAK HARBOR, ALASKA
ST. HERMAN'S HARBOR
PROJECT CONDITION SURVEY
 JUNE 23-24, 2000

APPROVED: _____ DATE: _____
 RECOMMENDED: _____

SCALE: 1" = 100'

SURVEY NO. **1869-00** SHEET **2** OF **3**



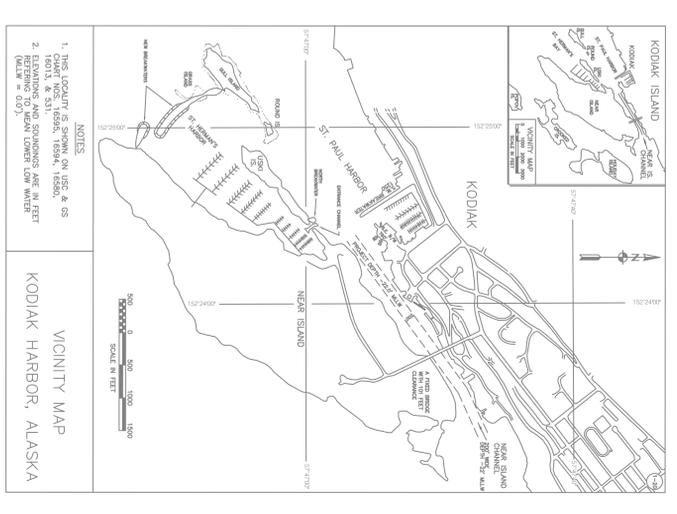
VOLUME COMPUTATIONS

NORTH ENTRANCE AND MAINTENANCE CHANNEL PROJECT FROM -12 MLLW
 BENLAW POINT AND THE MLLW 1817 (Globe years)
 AND MOUNTAIN Pt. LINE (-13 MLLW) 1288 (Globe years)
 1137 (Globe years)
 SLOPE

TOTAL 4022 (Globe years)

NAVIGATION AIDS

USCG No.	DESCRIPTION	NORTHING	EASTING
28635	ST. HERMAN BAY NORTH ENTRANCE DAYBEACON 1	1,385,263	1,950,988
28640	ST. HERMAN BAY NORTH ENTRANCE LIGHT 2	1,385,151	1,950,789
28732	ST. HERMAN HARBOR SOUTH ENTRANCE LIGHT 3	1,382,263	1,949,232
28733	ST. HERMAN HARBOR SOUTH ENTRANCE LIGHT 4	1,381,943	1,949,232
28735	ST. HERMAN HARBOR SOUTH ENTRANCE DAYBEACON 7	1,385,044	1,949,444



- NOTES
1. THIS LOCALITY IS SHOWN ON USGS 8S 1801A & 8S 1801B, 1984, 1984A, 1984B, 1984C, 1984D, 1984E, 1984F, 1984G, 1984H, 1984I, 1984J, 1984K, 1984L, 1984M, 1984N, 1984O, 1984P, 1984Q, 1984R, 1984S, 1984T, 1984U, 1984V, 1984W, 1984X, 1984Y, 1984Z, 1985A, 1985B, 1985C, 1985D, 1985E, 1985F, 1985G, 1985H, 1985I, 1985J, 1985K, 1985L, 1985M, 1985N, 1985O, 1985P, 1985Q, 1985R, 1985S, 1985T, 1985U, 1985V, 1985W, 1985X, 1985Y, 1985Z, 1986A, 1986B, 1986C, 1986D, 1986E, 1986F, 1986G, 1986H, 1986I, 1986J, 1986K, 1986L, 1986M, 1986N, 1986O, 1986P, 1986Q, 1986R, 1986S, 1986T, 1986U, 1986V, 1986W, 1986X, 1986Y, 1986Z, 1987A, 1987B, 1987C, 1987D, 1987E, 1987F, 1987G, 1987H, 1987I, 1987J, 1987K, 1987L, 1987M, 1987N, 1987O, 1987P, 1987Q, 1987R, 1987S, 1987T, 1987U, 1987V, 1987W, 1987X, 1987Y, 1987Z, 1988A, 1988B, 1988C, 1988D, 1988E, 1988F, 1988G, 1988H, 1988I, 1988J, 1988K, 1988L, 1988M, 1988N, 1988O, 1988P, 1988Q, 1988R, 1988S, 1988T, 1988U, 1988V, 1988W, 1988X, 1988Y, 1988Z, 1989A, 1989B, 1989C, 1989D, 1989E, 1989F, 1989G, 1989H, 1989I, 1989J, 1989K, 1989L, 1989M, 1989N, 1989O, 1989P, 1989Q, 1989R, 1989S, 1989T, 1989U, 1989V, 1989W, 1989X, 1989Y, 1989Z, 1990A, 1990B, 1990C, 1990D, 1990E, 1990F, 1990G, 1990H, 1990I, 1990J, 1990K, 1990L, 1990M, 1990N, 1990O, 1990P, 1990Q, 1990R, 1990S, 1990T, 1990U, 1990V, 1990W, 1990X, 1990Y, 1990Z, 1991A, 1991B, 1991C, 1991D, 1991E, 1991F, 1991G, 1991H, 1991I, 1991J, 1991K, 1991L, 1991M, 1991N, 1991O, 1991P, 1991Q, 1991R, 1991S, 1991T, 1991U, 1991V, 1991W, 1991X, 1991Y, 1991Z, 1992A, 1992B, 1992C, 1992D, 1992E, 1992F, 1992G, 1992H, 1992I, 1992J, 1992K, 1992L, 1992M, 1992N, 1992O, 1992P, 1992Q, 1992R, 1992S, 1992T, 1992U, 1992V, 1992W, 1992X, 1992Y, 1992Z, 1993A, 1993B, 1993C, 1993D, 1993E, 1993F, 1993G, 1993H, 1993I, 1993J, 1993K, 1993L, 1993M, 1993N, 1993O, 1993P, 1993Q, 1993R, 1993S, 1993T, 1993U, 1993V, 1993W, 1993X, 1993Y, 1993Z, 1994A, 1994B, 1994C, 1994D, 1994E, 1994F, 1994G, 1994H, 1994I, 1994J, 1994K, 1994L, 1994M, 1994N, 1994O, 1994P, 1994Q, 1994R, 1994S, 1994T, 1994U, 1994V, 1994W, 1994X, 1994Y, 1994Z, 1995A, 1995B, 1995C, 1995D, 1995E, 1995F, 1995G, 1995H, 1995I, 1995J, 1995K, 1995L, 1995M, 1995N, 1995O, 1995P, 1995Q, 1995R, 1995S, 1995T, 1995U, 1995V, 1995W, 1995X, 1995Y, 1995Z, 1996A, 1996B, 1996C, 1996D, 1996E, 1996F, 1996G, 1996H, 1996I, 1996J, 1996K, 1996L, 1996M, 1996N, 1996O, 1996P, 1996Q, 1996R, 1996S, 1996T, 1996U, 1996V, 1996W, 1996X, 1996Y, 1996Z, 1997A, 1997B, 1997C, 1997D, 1997E, 1997F, 1997G, 1997H, 1997I, 1997J, 1997K, 1997L, 1997M, 1997N, 1997O, 1997P, 1997Q, 1997R, 1997S, 1997T, 1997U, 1997V, 1997W, 1997X, 1997Y, 1997Z, 1998A, 1998B, 1998C, 1998D, 1998E, 1998F, 1998G, 1998H, 1998I, 1998J, 1998K, 1998L, 1998M, 1998N, 1998O, 1998P, 1998Q, 1998R, 1998S, 1998T, 1998U, 1998V, 1998W, 1998X, 1998Y, 1998Z, 1999A, 1999B, 1999C, 1999D, 1999E, 1999F, 1999G, 1999H, 1999I, 1999J, 1999K, 1999L, 1999M, 1999N, 1999O, 1999P, 1999Q, 1999R, 1999S, 1999T, 1999U, 1999V, 1999W, 1999X, 1999Y, 1999Z, 2000A, 2000B, 2000C, 2000D, 2000E, 2000F, 2000G, 2000H, 2000I, 2000J, 2000K, 2000L, 2000M, 2000N, 2000O, 2000P, 2000Q, 2000R, 2000S, 2000T, 2000U, 2000V, 2000W, 2000X, 2000Y, 2000Z.
 2. BATHYMETRY WAS COLLECTED ON JUNE 24-25, 2000 USING A ROSS 950 ECHOSOUNDER WITH A ZORBEK 5" BEAM WIDTH TRANSDUCER. POSITIONS WERE DETERMINED USING AN AG 122 WATER LEVEL WAS MEASURED USING A VERNER LPT TELEMETRY TIDE GAUGE SET AS SHOWN. DATA WAS COLLECTED AND REDUCED USING HYPACK INTEGRATED SOFTWARE.
 3. SOUNDINGS ARE IN FEET AND ARE MINUS UNLESS OTHERWISE INDICATED.
 4. BATHYMETRY WAS COLLECTED ON JUNE 24-25, 2000 USING A ROSS 950 ECHOSOUNDER WITH A ZORBEK 5" BEAM WIDTH TRANSDUCER. POSITIONS WERE DETERMINED USING AN AG 122 WATER LEVEL WAS MEASURED USING A VERNER LPT TELEMETRY TIDE GAUGE SET AS SHOWN. DATA WAS COLLECTED AND REDUCED USING HYPACK INTEGRATED SOFTWARE.
 5. THIS DRAWING INDICATES GENERAL CONDITIONS AT THE TIME OF SURVEY.
 6. SURVEY CONTROL, PROJECT LIMITS AND NAVIGATIONAL AIDS COORDINATES WERE CONVERTED FROM NAD 27 TO NAD 83 IN US SURVEY FEET TO NAD 83 IN US SURVEY FEET USING CORSSON 5.11.01. THE HORIZONTAL AND VERTICAL CONTROL WERE SURVEYED JUNE 20-25, 2000 USING CONVENTIONAL METHODS.
 7. THE HORIZONTAL AND VERTICAL CONTROL WERE SURVEYED JUNE 20-25, 2000 USING CONVENTIONAL METHODS.

CONTROL DATA

STATION	NORTHING	EASTING	ELEV.	DESCRIPTION
TDB 103	1,385,578.60	1,951,601.05	17.42	NOT SEARCHED FOR
TDB 104	1,385,278.05	1,951,052.03	31.22	NOT SEARCHED FOR
TDB 105	1,384,385.92	1,950,969.92	14.81	NOT SEARCHED FOR
TDB 106	1,385,067.25	1,950,975.87	15.71	NOT SEARCHED FOR
TDB 107	1,383,411.62	1,950,752.48	23.79	NOT SEARCHED FOR
TDB 108	1,385,872.95	1,949,505.62	17.80	NOT SEARCHED FOR
TDB 109	1,383,892.85	1,949,472.20	33.6	NOT SEARCHED FOR
TDB 110	1,381,273.19	1,949,472.20	33.6	NOT SEARCHED FOR
TDB-112	1,387,283.76	1,953,322.65	-	FOUND IN GOOD CONDITION
TDB-125	1,386,076.29	1,950,682.85	17.90	FOUND IN GOOD CONDITION
B.M. NO. 1	1,385,377.50	1,950,736.04	17.01	FOUND IN GOOD CONDITION
B.M. NO. 2	1,387,715.76	1,948,708.39	20.49	SET THIS SURVEY
B.M. NO. 3	1,383,131.21	1,950,922.25	28.80	FOUND IN GOOD CONDITION
B.M. NO. 4	1,385,945.34	1,951,548.02	28.80	FOUND IN GOOD CONDITION
B.M. NO. 5	1,387,456.93	1,952,427.75	46.49	FOUND IN GOOD CONDITION
B.M. NO. 6	1,387,349.08	1,949,974.72	93.5	NOT SEARCHED FOR
B.M. NO. 7	1,382,111.09	1,949,757.24	62.66	NOT SEARCHED FOR
HARBOR MASTER	-	-	18.91	FOUND IN GOOD CONDITION

PROJECT LIMITS

CORNER	NORTHING	EASTING	CORNER	NORTHING	EASTING
1	1,385,346.97	1,950,927.80	11	1,385,015.44	1,950,698.81
2	1,385,221.88	1,950,905.60	12	1,385,070.13	1,950,912.27
3	1,385,131.21	1,950,992.25	13	1,385,148.08	1,950,834.42
4	1,385,165.53	1,951,046.80	14	1,385,186.33	1,950,844.57
5	1,385,122.94	1,951,097.50	15	1,385,244.31	1,950,789.17
6	1,384,695.03	1,950,923.22			
7	1,384,695.03	1,950,923.22			
8	1,384,598.33	1,950,583.33			
9	1,384,725.54	1,950,725.44			
10	1,384,725.54	1,950,725.44			

CONTRACTOR: TERRA SURVEYS, LLC
 CONTRACT NO.: DMC85-08-D-0004
 CITY: PALMER, STATE: ALASKA

ALASKA DISTRICT
 CORPS OF ENGINEERS
 ANCHORAGE, ALASKA

KODIAK HARBOR, ALASKA
 ST. HERMAN'S HARBOR
 PROJECT CONDITION SURVEY
 JUNE 24-25, 2000

APPROVED: _____ DATE: _____
 CHECKED: T.S.M.
 DRAWN: K.D.W./A.S.D.
 SURVEYED: _____
 T.S.M.

REVISIONS: _____
 SURVEY NO.: 1869-00
 SCALE: 1" = 100'
 SHEET 3 OF 3