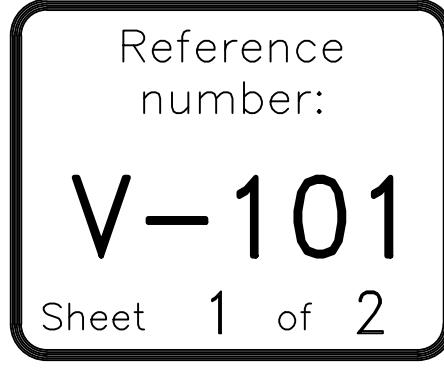
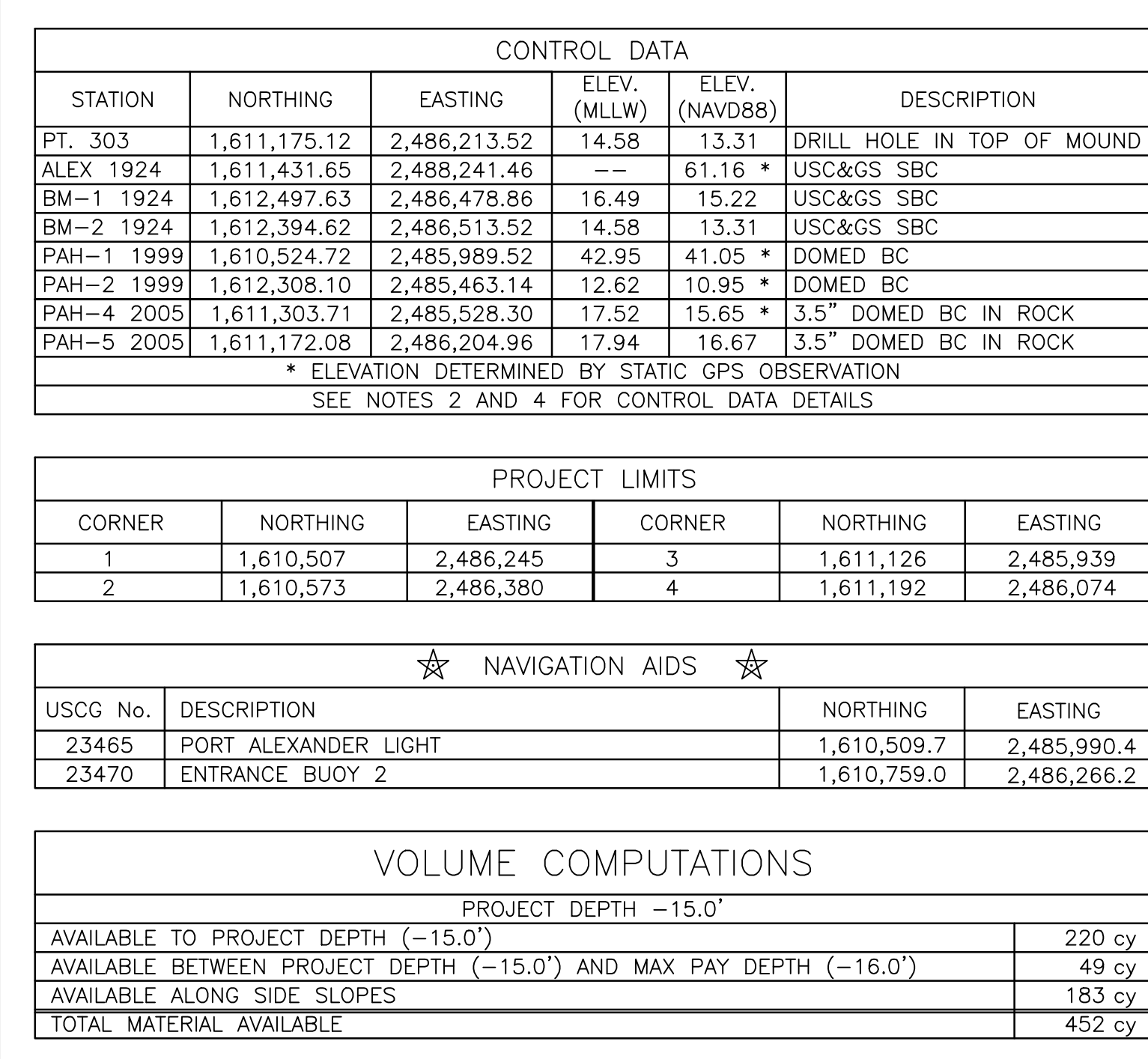






LAGOON

BARANOF ISLAND

INNER CHANNEL
40 FEET WIDE
DEPTH - 2' MLLW
(DEAUTHORIZED)

PORT ALEXANDER

CHATHAM STRAIT

ENTRANCE CHANNEL
150 FEET WIDE
15 FEET DEEP
AT MLLW

PORT ALEXANDER

SCALE IN MILES

SCALE IN KILOMETERS

SCALE IN FEET

SCALE IN METERS

PORT ALEXANDER ALASKA

1. HORIZONTAL CONTROLS ALASKA STATE PLANE, ZONE 1, NAD83, IN US SURVEY FEET BASED ON A FULLY CONSTRAINED STATIC GPS NETWORK HOLDING THE PUBLISHED NAD83 (GORS) 2002.00 EPOCH VALUES OF NGCS CORS STATIONS: "BIORKA ALASKA 3 N 6 CORS ARP" (BIS6 + PD, D66554) AS N 1838719.91, E -2111128.31 (ALASKA STATE PLANE, ZONE 1, NAD 83) AND "LEVEL ALINK 5 CORS ARP" (LEV5 + PD, D30333) AS N 1692097.99, E 2801993.45 (ALASKA STATE PLANE, ZONE 1, NAD 83) AND "PETERSBURGAK2005 CORS ARP" (AB51 + PD, DMJ457) N 1813698.79, E 2836899.55 (ALASKA STATE PLANE, ZONE 1, NAD 83). CORS COORDINATES AND POSITIVE COORDINATES ARE CONVERTED FROM LAT/LONG USING NGCS PROGRAM SPCS85(V2.1). RESULTANT COORDINATES AT PRIMARY HARBOR CONTROL HOLD USGS SBC "BM-1 1924" AS N 1612497.63, E 2486478.86 AND DOME D BC "PAH-1 1999" AS N 1610524.72, E 2485989.52.
2. VERTICAL CONTROL IS MEAN LOWER LOW WATER (MLLW=0.0'), BASED ON THE NOAA/NOGS TIDAL BENCH MARK LIST: "9451054, PORT ALEXANDER, BARANOF ISLAND, ALASKA", PUBLISHED 10/21/2010. THIS TIDAL DATUM IS BASED ON THE 1983-2001 TIDAL EPOCH AND IS REFERENCED BY HOLDING NOS BENCHMARK "945 1054 F" AS 13.87' AND NOS TIDAL BENCHMARK "945 1054 G" AS 14.51'. ALSO PROVIDED IS THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) EQUIVALENTS, HOLDING BM-1 1924 AS 15.22, BASED ON GPS OBSERVATIONS FROM JULY 11 AND 12, 2011.
3. THE SURVEY WAS CONDUCTED ON JULY 10-12, 2010. HYDROGRAPHIC SOUNDING DATA WAS COLLECTED USING AN ODOM ES2 100FT-BEAM ECHOSOUNDER (200KHZ, 120-DEGREE SWATH-WIDTH WITH 120, 0.75 DEGREE BEAMS). POSITIONING AND VESSEL ATTITUDE WERE PROVIDED IN REAL TIME USING A TRIMBLE 461 RTK GPS RECEIVER OPERATING ON KINEMATIC CORRECTORS BROADCAST FROM A TRIMBLE 5700 RTK BASE RECEIVER SET AT CONTROL STATION "BM-1 1924". SOUND VELOCITY PROFILE WAS PROVIDED USING AN ODOM DIGI-BAR PRO, AND WAS PROVIDED IN REAL TIME AT THE SOUNDER HEAD USING AN ODOM DIGI-BAR V. DATA COLLECTION AND NAVIGATION WERE PERFORMED USING HYPACK HYSWEP (2010) SOFTWARE. MULTI-BEAM SURVEY DATA WAS POST-PROCESSED USING HYPACK HYSWEP (2010) SOFTWARE.
4. MLLW ELEVATIONS FOR MONUMENTS PAH-1, PAH-2, PAH-3, AND PAH-5 WERE NOT UPDATED THIS SURVEY.
5. SOUNDING VALUES SHOWN ARE IN FEET AND ARE MINUS UNLESS OTHERWISE INDICATED.
6. THIS DRAWING IS INDICATIVE OF GENERAL SEAFLATH CONDITIONS ON THE DATES OF SURVEY.
7. THIS SURVEY WAS CONDUCTED BY HUGHES AND ASSOCIATES, WASILLA, AK.

VOLUME COMPUTATIONS	
PROJECT DEPTH -15.0'	
AVAILABLE TO PROJECT DEPTH (-15.0')	220 cy
AVAILABLE BETWEEN PROJECT DEPTH (-15.0') AND MAX PAY DEPTH (-16.0')	49 cy
AVAILABLE ALONG SIDE SLOPES	183 cy
TOTAL MATERIAL AVAILABLE	452 cy

Reference
number:
V-102
Sheet 2 of 2