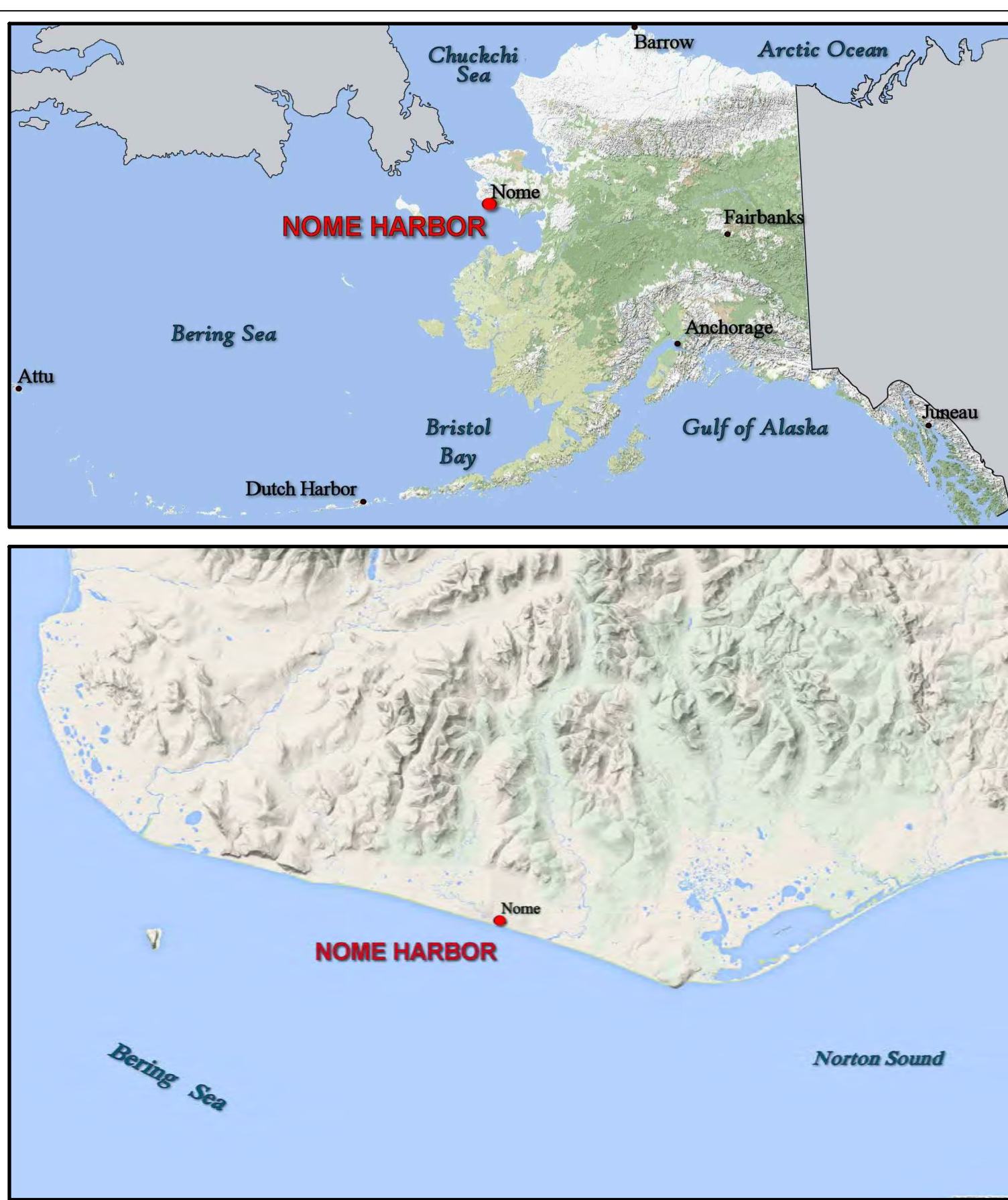




1. PRIMARY PROJECT HORIZONTAL CONTROL IS ALASKA STATE PLANE, ZONE 8, NAD83 ("NRS007", IN U.S. FEET; BASIS OF COORDINATES IS NATIONAL GEODETIC SURVEY (NGS) CONTROL STATION "ORRME" AT (PID 692500), WITH AN ELEVATION VALUE OF 1,728.075 M (5,669.617 FT); AND A MAGNETIC DECLINATION OF E 1.729/68.141°. MONUMENTS ARE SECONDARY AIRPORT CONTROL STATIONS (SACS) AT NOME AIRPORT, ALASKA.
2. LOCAL PROJECT HORIZONTAL CONTROL IS ALASKA STATE PLANE, ZONE 8, NAD83 ("NRS007", IN U.S. SURVEY FEET HOLDING "KUVJ-1" HAVING A VALUE OF N 3.637, 168.870 AND S 1,729.283 S'.
3. VERTICAL CONTROL IS MEAN LOWER LOW WATER (MLW (+0.0)) BASED ON THE NOAA/NDS TIDAL BENCHMARK LIST: "946 8756 NOME NORTHSON SOUND, ALASKA" PUBLISHED 10/05/2017. THIS TIDAL DATUM IS BASED ON THE 1983-2001 TIDAL EPOCH AND IS REFERENCED BY HOLDING NOAA/USSGS TIDAL BENCHMARK "946 8756 H" (VMM1212/PUBHBBFBF33) AS 12.18 FT.
4. TIDAL TIES TO THE NATIONAL SPATIAL REFERENCE SYSTEM ARE BASED ON PUBLISHED NAVD83 (EPOCH 12B) ELEVATIONS HOLDING NOAA/USSGS TIDAL BENCHMARK "946 8756 H" (VMM1212/PUBHBBFBF33) AS 14.82 FT.
5. SOUNDINGS ARE IN FEET AND ARE MINUS UNLESS OTHERWISE INDICATED.
6. BATHYMETRY WAS COLLECTED ON JUNE 20 - 28, 2019. SOUNDINGS WERE COLLECTED USING A CEEPSOCE ECHO SOUNDER OPERATING AT 200 KHZ. SOUND VELOCITY THROUGH THE WATER COLUMN WAS DETERMINED USING REAL TIME ACoustic BASE KE SOUND VELOCITY PROBE. POSITION AND TIDES WERE PROVIDED IN REAL TIME USING A TRIMBLE R/RTK GPS RECEIVER OPERATING ON KINEMATICS CORRECTIONS BROADCAST FROM TRIMBLE R/RTK GPS BASE RECEIVER SET AT CONTROL STATION, "KUVJ-1". DATA WAS COLLECTED AND PROCESSED USING HPACK2019 INTEGRATED SOFTWARE. HORIZONTAL CONTROL WAS PROVIDED USING RTK GNSS EQUIPMENT AND TECHNIQUES. VERTICAL CONTROL WAS VERIFIED DURING THE PRE DEGREE SURVEY USING DIFFERENTIAL LEVELING TECHNIQUES.

SURVEY CONTROL DATA				
STATION	NORTHING	EASTING	MLW	DESCRIPTION
39+71	3,834,957.98	1,729,422.33		BRASS CAP
53+68	3,834,888.51	1,728,762.20		BRASS CAP
BOOTSTRAP	3,838,021.15	1,730,359.97	6.70	BRASS CAP
CELL	3,835,965.94	1,729,122.28		ALUMINUM MON
DINGO	3,836,890.97	1,732,407.19	19.34	BRASS CAP
KMLVJ-1	3,837,168.87	1,729,283.15	16.44	BRASS CAP
NH-02	3,838,272.50	1,731,835.01	12.45	BRASS CAP
NH-03	3,837,585.34	1,730,864.94	13.87	BRASS CAP
NH-04	3,837,212.71	1,731,266.48	15.30	BRASS CAP
OME A	3,841,096.47	1,728,070.64		BRASS CAP
OME B	3,842,264.55	1,729,661.41		BRASS CAP
PUMP	3,837,605.19	1,731,631.48	9.18	BRASS CAP
SHEET	3,837,882.85	1,731,533.69	11.70	DESTROYED

NAVIGATION AIDS			
USCG NO.	NORTHING	EASTING	DESCRIPTION
27962	3,834,922	1,729,388	ENTRANCE LIGHT 2
27963	3,834,844	1,728,782	ENTRANCE LIGHT 1
27964	3,836,250	1,729,618	BUOY 1
27965	3,836,070	1,729,925	BUOY 2
27966	3,836,541	1,729,900	BUOY 3
27967	3,836,470	1,730,030	BUOY 4
27968	3,838,033	1,730,848	BUOY 5
27969	3,837,935	1,731,111	BUOY 8
27970	3,837,678	1,731,012	BUOY 7
27971	3,837,805	1,731,401	BUOY 9



THIS HYDROGRAPHIC SURVEY WAS COMPLETED
UNDER THE OVERSIGHT OF AN ACSM/THSOA
CERTIFIED HYDROGRAPHER



CORY S. HUGHES C.H. (245)

CONTRACT NO. W911KB18C0003	
CONTRACTOR ALASKA MARINE EXCAVATION	
CITY ANCHORAGE POINT	STATE ALASKA
Recommended:	Approved:
PRIME CONTRACTOR	CHIEF GEOMATICS SECTION
	Date:

[illegible]

DATE:	3 March 2020
SURVEYED BY:	CSH/JSH/CKA
DRAWN BY:	DCM
CHECKED BY:	CSH
UPC:	N00013
APPROVED BY:	GEOPACIS/EC-G/GE
CONTRACT NO.:	W01 H01 B00003
SCALE:	1" = 100'
PLOT DATE:	03/03/2020
FILE NAME:	2019 NOME POST DREDGE_20190626.DWG
ANSI E	