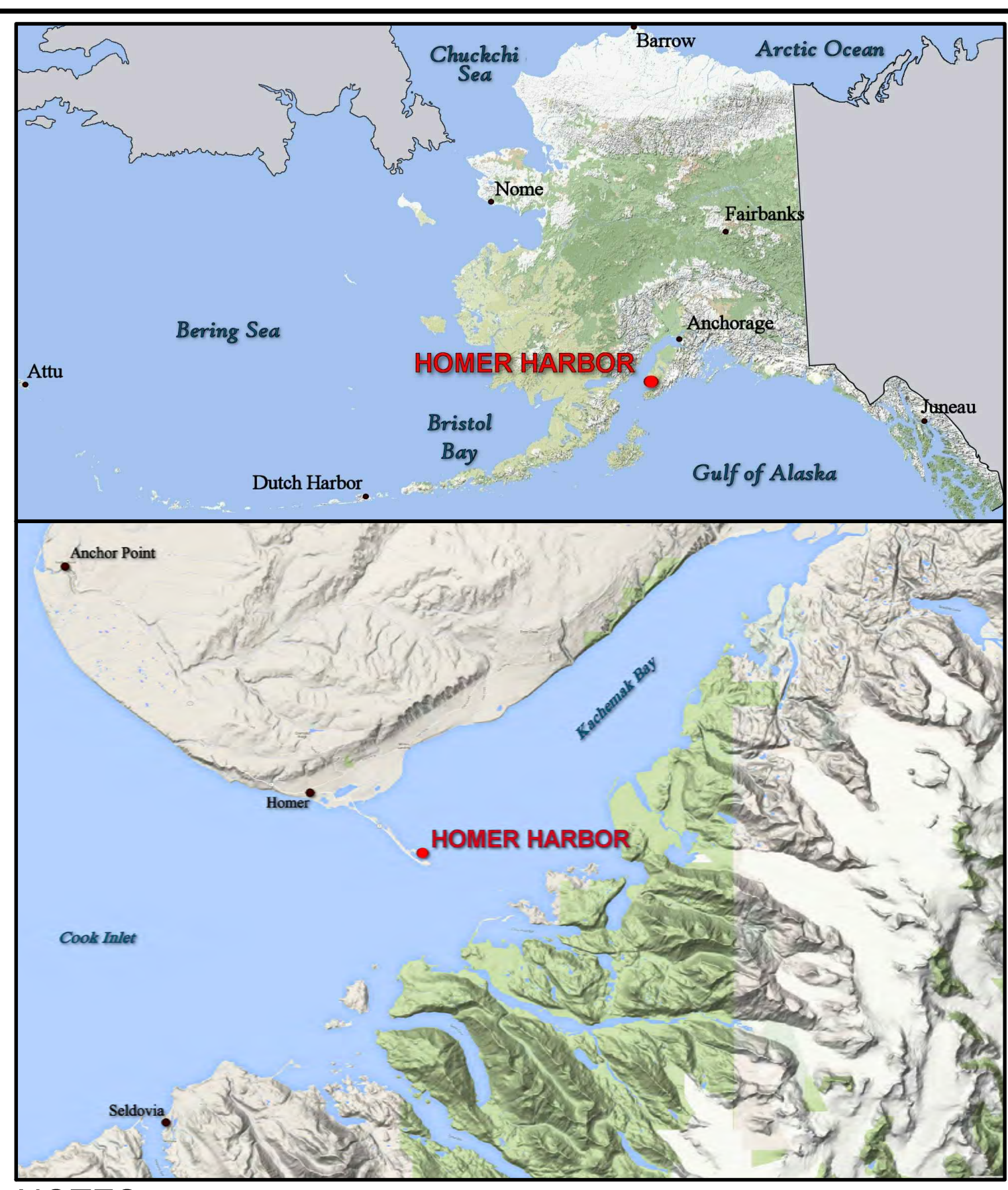


PROJECT LIMITS CURVE DATA			
CURVE	RADIUS	ARC LENGTH	DELTA ANGLE
C2	172.88'	149.28'	049°28'29.9"
C3	185.63'	338.77'	104°33'41.9"
C4	95.61'	174.50'	104°34'21.5"
C5	160.18'	208.51'	074°34'49.9"
C6	104.07'	191.44'	105°23'39.2"

VOLUME COMPUTATIONS		
AREA A: OUTER ENTRANCE CHANNEL	MLLW (FT)	CU.YD
REMOVED TO DREDGE DEPTH (DD)	-20.0	21
REMOVED BETWEEN DD AND MAX PAY DEPTH (MP)	-21.0	39
REMOVED SIDE SLOPES (SS) AT 3:1 (H:V) & 25' WIDE	VARIES	19
AREA B: USCG BASIN AREA		
REMOVED TO DD	-22 TO -26	320
REMOVED BETWEEN DD AND MP	-23 TO -27	25
REMOVED SS	VARIES	740
AREA C: INNER CHANNEL AREA		
REMOVED TO DD	-20.0	590
REMOVED BETWEEN DD AND MP	-21.0	69
REMOVED SS	VARIES	1420
AREA D: MANEUVERING AREA (NOT DREDGED)		
AREA E: MANEUVERING AREA (NOT DREDGED)		
AREA F: MANEUVERING AREA (NOT DREDGED)		
TOTAL MAXIMUM VOLUME REMOVED (MP + SS)	VARIES	3243
DREDGED AREA OVERDREDGE (AREA A, B, & C)	VARIES	100
SIDE SLOPE AREA OVERDREDGE (AREA A, B, & C)	VARIES	118

PROJECT LIMITS		
CORNER#	NORTHING	EASTING
7	2,049,519.03	1,377,882.50
8	2,049,207.15	1,377,683.23
9	2,049,313.35	1,377,517.38
10	2,049,705.59	1,376,903.13
11	2,050,281.01	1,376,002.56
12	2,050,544.76	1,375,589.76
13	2,050,893.93	1,375,219.67
14	2,051,074.98	1,375,335.41
15	2,051,159.30	1,375,389.23
16	2,051,420.46	1,375,556.10
17	2,050,887.56	1,376,390.12
18	2,050,312.15	1,377,290.69
19	2,050,626.40	1,376,223.25
20	2,050,542.13	1,376,169.40
21	2,050,096.16	1,377,152.69
22	2,050,011.48	1,377,098.58
23	2,049,957.99	1,377,876.49
24	2,049,707.99	1,377,696.69
25	2,049,954.10	1,379,383.98
26	2,049,539.77	1,379,277.46
CG1	2,049,621.31	1,379,028.43
CG2	2,049,755.11	1,378,885.74
CG3	2,049,654.76	1,378,791.65
CG4	2,049,481.24	1,378,801.18
CG5	2,049,433.37	1,378,852.25
CG6	2,049,396.89	1,378,903.32
CG7	2,049,396.89	1,378,818.05
CG8	2,049,526.07	1,378,748.64
PC1A	2,049,852.14	1,378,351.33
PC2A	2,049,766.26	1,378,304.02
PC3A	2,049,989.05	1,378,221.58
PC4A	2,049,947.63	1,378,141.68
PC6A	2,049,758.41	1,377,752.69
PL-32	2,050,341.61	1,376,668.97
PL-33	2,050,254.64	1,376,619.37
PRC3B/5A	2,050,041.53	1,377,932.63
PT1B	2,049,896.45	1,378,269.64
PT2B	2,049,855.01	1,378,189.75
PT4B	2,049,974.64	1,377,992.85
PT5B	2,050,025.58	1,377,739.19
PT6B	2,049,593.40	1,377,766.24



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 - LOCAL PROJECT HORIZONTAL CONTROL IS ALASKA STATE PLANE, ZONE 4, NAD83, IN US SURVEY FEET HOLDING MONUMENT 'HOMER BASIN 7 1965' AS N 2,049,712.22, E 1,377,964.36 AND USACE BASIN 'BL-2-A' AS N 2,049,793.81, E 1,378,015.52.
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SURVEY CONTROL DATA				
STATION	NORTHING	EASTING	MLLW	DESCRIPTION
AUDREY	2,051,507.88	1,375,406.60	33.33	1-1/2 IN ALUMINUM CAP (FOUND)
BL-2-A 1989	2,049,793.81	1,378,015.52	32.53	USACE SBC (FOUND)
BM NO 6 1965			27.28	US&GC SBC (NOT FOUND)
BOLL 1996	2,050,682.88	1,375,195.75	35.51	3-1/4 IN FLAT BRASS CAP (FOUND)
C 103 1965			26.95	US&GC SBC (NOT FOUND)
HB-08 2009	2,050,150.78	1,377,830.73	31.93	3-1/4 IN DOMED ALUMINUM CAP (FOUND)
HB-09 2009	2,051,199.61	1,375,120.24	32.04	3-1/4 IN DOMED ALUMINUM CAP (FOUND)
HOMER BASIN 4 1965	2,050,038.11	1,378,340.09	31.29	USACE SBC (NOT SEARCH)
HOMER BASIN 5 1965	2,049,940.32	1,378,344.30	30.86	USACE SBC (FOUND, NOT GPS SUITABLE)
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NAVIGATION AIDS			
USCG NO.	NORTHING	EASTING	DESCRIPTION
26210	2,049,940	1,378,351	HOMER BREAKWATER LIGHT 2
26216	2,049,932	1,378,484	SOUTH LIGHTED MOORING BUOY

OBSTRUCTION IDENTIFIED IN 2015 SURVEY				
POINT	NORTHING	EASTING	APPROXIMATE DIMENSIONS	ELEVATION [FT MLLW]
OBST-1	2,049,999.55	1,378,206.74	7.0'x 3.7'x2.8'	-18
OBST-2	2,050,060.01	1,377,988.53	5.4'x 4.5'x1.7'	-19.7
OBST-3	2,049,935.22	1,378,201.00	4.9'x 2.8'x2.1'	-20.2
OBST-4	2,049,977.06	1,378,080.24	4.8'x 3.2'x2.6'	-16.9

OBSTRUCTION IDENTIFIED IN 2017 SURVEY				
POINT	NORTHING	EASTING	APPROXIMATE DIMENSIONS	ELEVATION [FT MLLW]
OBST-5	2,050,408.82	1,376,457.46	8.4'x 3.0'x1.6'	-14.2
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OBST-7	2,049,908.41	1,377,315.59	7.1'x3.2'x1.6'	-18.4
OBST-8	2,049,972.34	1,377,366.67	11.2'x 6.0'x 9'	-18.6
OBST-9	2,051,079.04	1,375,309.96	3.8'x 3.8'x2.6'	-9.3
OBST-10	2,050,751.35	1,375,979.40	3.8'x 2.7'x1.1'	-11.6
OBST-11	2,050,671.74	1,376,070.56	6.0'x 3.0'x1.7'	-10.9
OBST-12	2,049,862.17	1,378,295.83	8.4'x 5.7'x3.5'	-17.9
OBST-13	2,049,739.30	1,378,817.19	4.7'x 2.0'x2.6'	-17.5
OBST-14	2,049,827.53	1,378,786.35	7.3'x 4.8'x3.4'	-17
OBST-15	2,050,655.65	1,376,121.46	3.5'x3.1'x1.2'	-11.7

US Army Corps of Engineers - ALASKA DISTRICT

CONTRACT NO. W11H617-C-0007
 CONTINUATION: ALASKA MARINE ENGINEERING
 CITY: ANCHORAGE STATE: ALASKA
 PROJECT: HOMER HARBOR POST DREDGE SURVEY
 SHEET: 2-HOM-92-07-62

DATE: SEPTEMBER 10, 2017

DESIGNER: [Signature]
 CHECKED BY: [Signature]
 DRAWN BY: [Signature]
 APPROVED BY: [Signature]

FILE NAME: 2-HOM-92-07-62-000.DWG
 SCALE: AS SHOWN

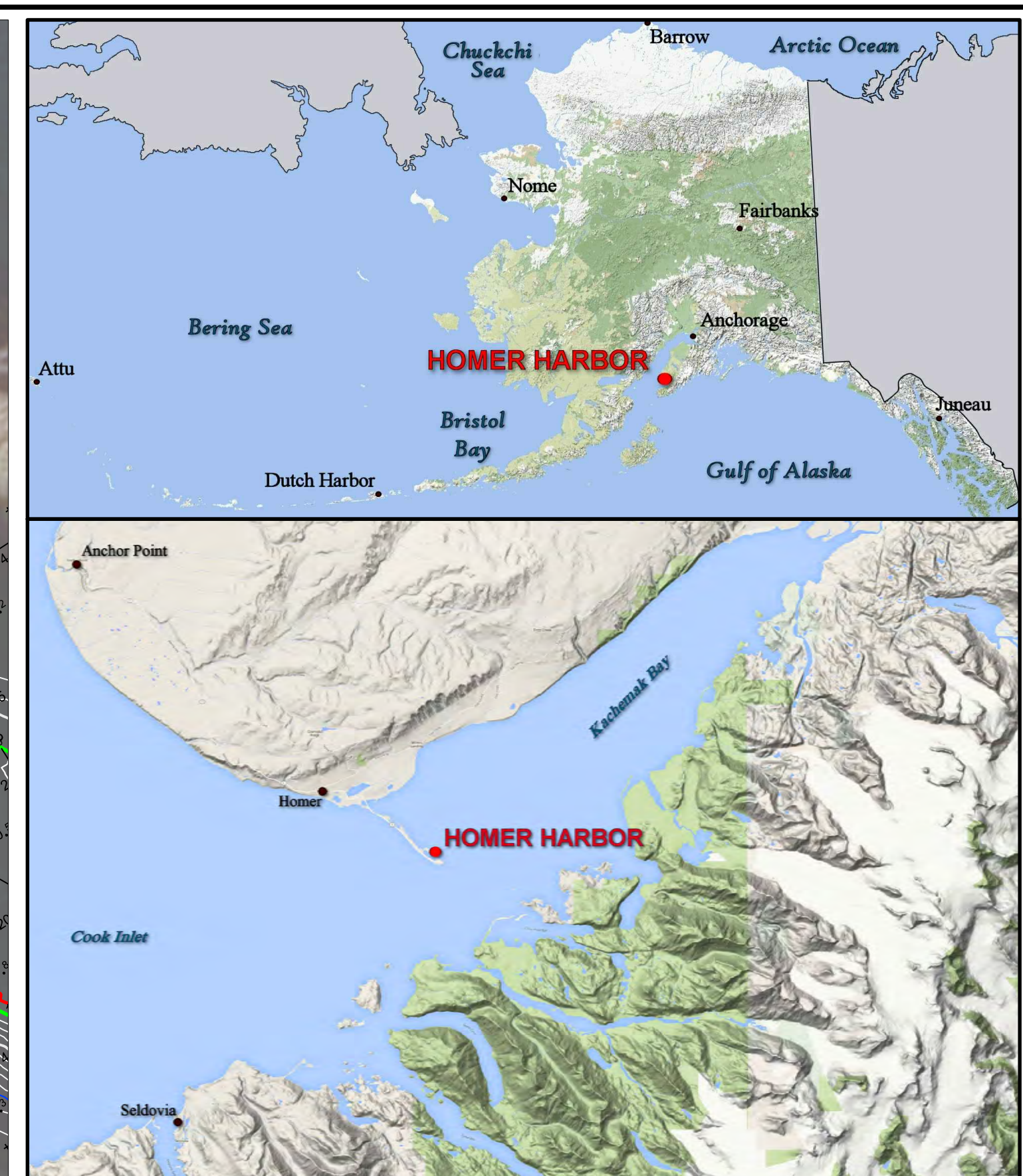
**HOMER, ALASKA
 HOMER HARBOR
 POST DREDGE SURVEY
 SEPTEMBER 10, 2017**

SHEET IDENTIFICATION
 2-HOM-92-07-62
 Sheet 1 of 6

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

Cory S. Hughes
 CORY S. HUGHES (C 045)

STATE OF ALASKA
 49th
 CORY S. HUGHES
 LICENSED PROFESSIONAL SURVEYOR
 LICENSE NO. 15-1300



- NOTES**
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 - VERTICAL CONTROL IS MEAN LOWER LOW WATER (MLLW=0.0'), BASED ON THE NOAA/OS TIDAL BENCH MARK LIST FOR STATION "465 6557" HOMER, ALASKA, PUBLISHED 08/11/2009. THIS TIDAL DATUM IS BASED ON THE 1983-2001 TIDAL EPOCH AND IS REFERENCED BY HOLDING SBC "BL-2-A" AS 32.53'.
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OBSTRUCTION IDENTIFIED IN 2015 SURVEY

POINT	NORTHING	EASTING	APPROXIMATE DIMENSIONS	ELEVATION [FT MLLW]
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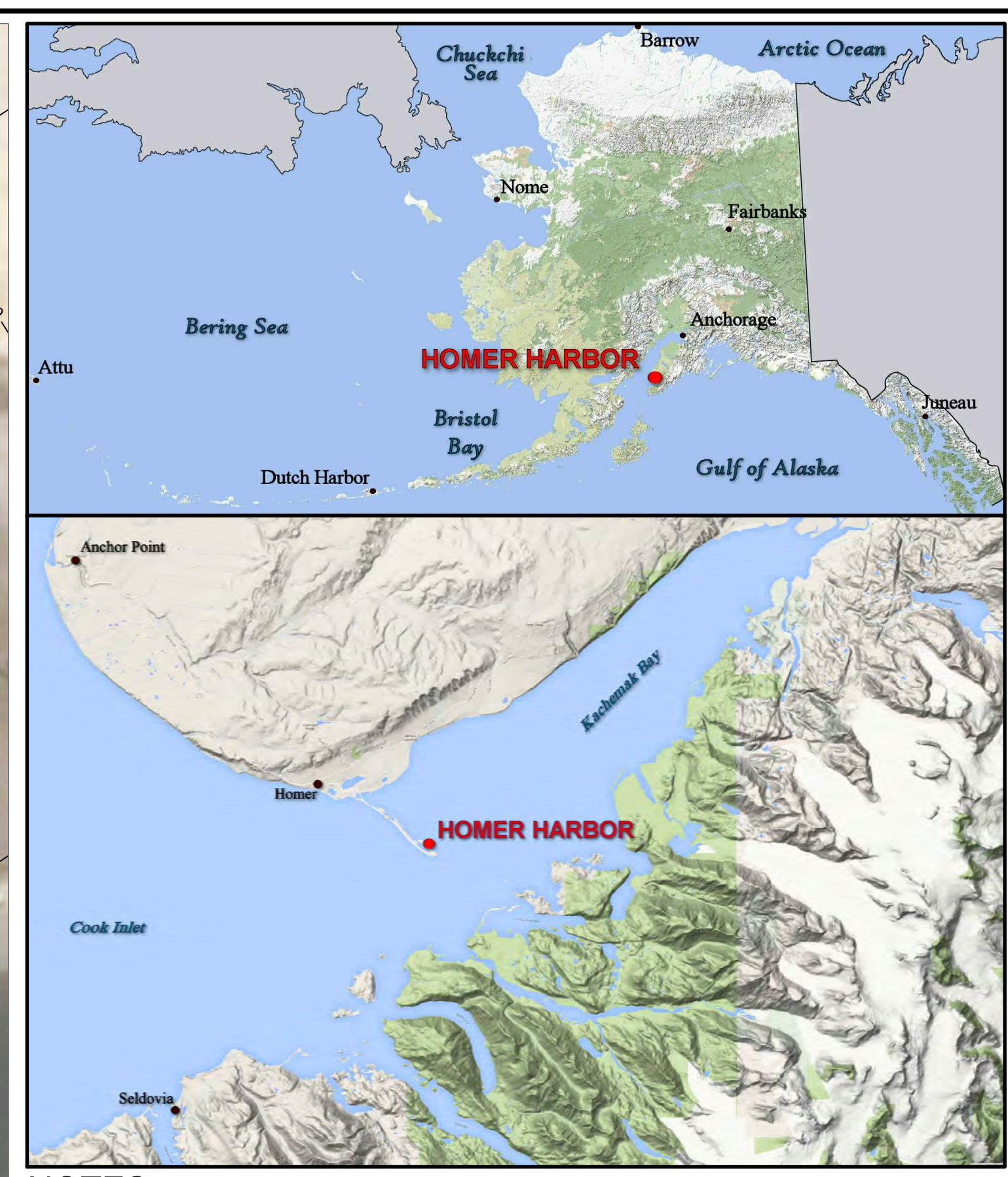
**U.S. ARMY CORPS OF ENGINEERS
ALASKA DISTRICT**

**HOMER, ALASKA
HOMER HARBOR
POST DREDGE SURVEY
SEPTEMBER 10, 2017**

SHEET IDENTIFICATION

2-HOM-92-07-62

Sheet 2 of 6



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NAVIGATION AIDS			
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US Army Corps of Engineers - ALASKA DISTRICT

CONTRACT NO. W11H617-C-0007
 CONTINUATION: ALASKA MARINE ENGINEERING
 CITY: ANCHORAGE
 STATE: ALASKA
 PROJECT: HOMER HARBOR POST DREDGE SURVEY
 DATE: SEPTEMBER 10, 2017

DESIGNED BY: []
 DRAWN BY: []
 CHECKED BY: []
 APPROVED BY: []

FILE NAME: 2-HOM-92-07-62
 SCALE: 1" = 400'
 SHEET: 3 OF 6

**HOMER, ALASKA
 HOMER HARBOR
 POST DREDGE SURVEY
 SEPTEMBER 10, 2017**

SHEET IDENTIFICATION
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