



REV.	DATE	BY	APPR.	DESCRIPTION

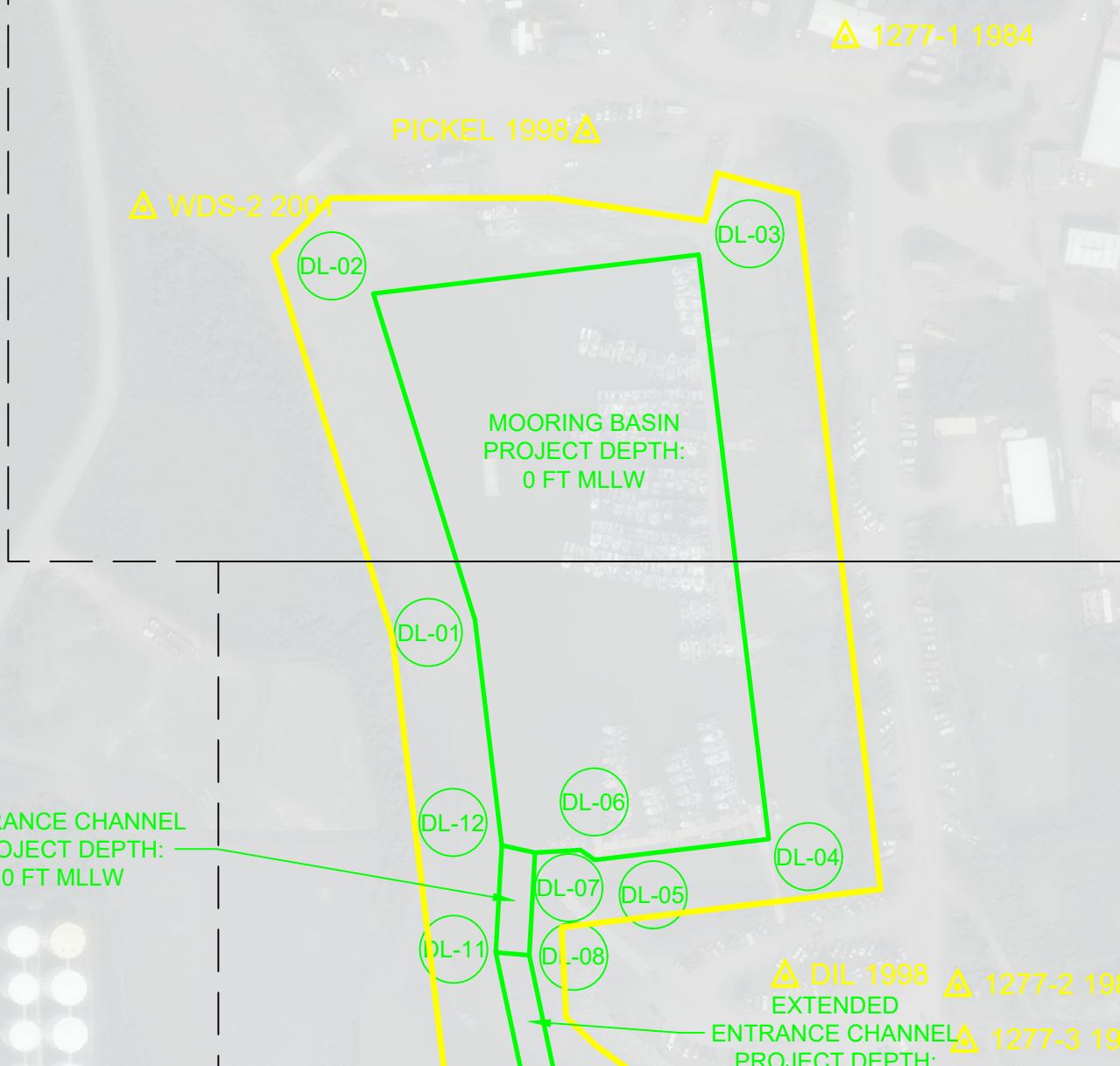
REV.	DATE	BY	APPR.	DESCRIPTION

U.S. ARMY CORPS OF ENGINEERS ALASKA DISTRICT 204 43RD STREET JBER, ALASKA 99501-0088	SURVEYED BY: CSH & DCA DRAWN BY: DCA CHECKED BY: CSH APPROVED BY: THOMAS SLOAN, CHIEF GEOMATICS SECTION ALASKA MARINE EXCAVATION FILE: DILLINGHAM PIPE DREDGE 020161.DWG	CONTRACT NO.: W911KE2020C0001 TASK ORDER NO.: 0625/2020 SCALE: 1" = 00' JOB NO.: 5374 B 2007 (VM 18352 / PID BBBF17) AS 24.87'
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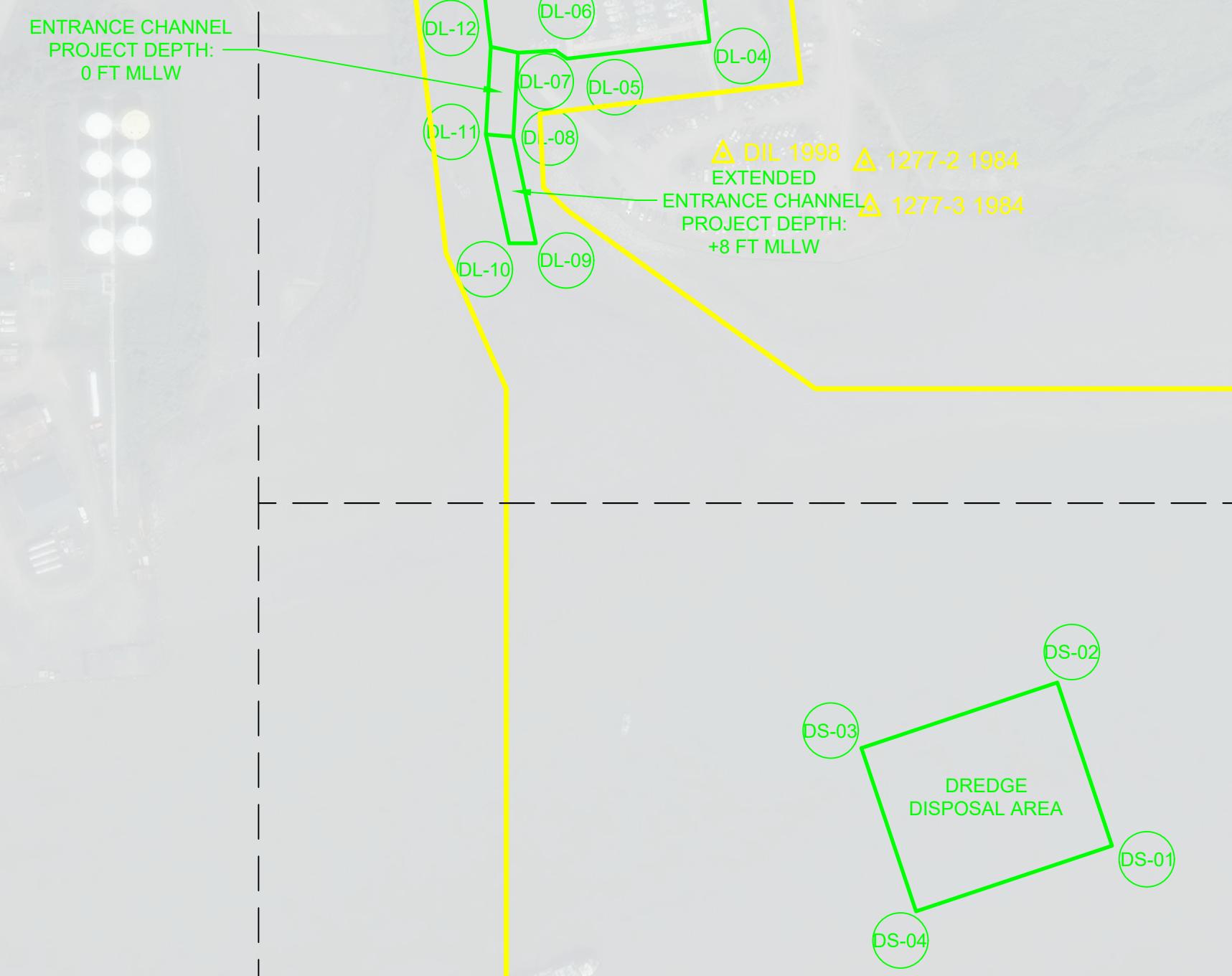
DILLINGHAM, ALASKA DILLINGHAM HARBOR PRE-DREDGE SURVEY MAY 10 - 11, 2020

REFERENCE NUMBER:
5-DIL-92-07-51
SHEET 1 OF 5

SHEET 2



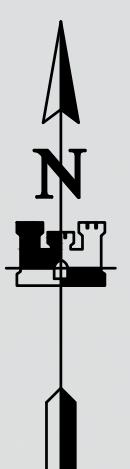
SHEET 3



SHEET 4

200 0 100 200 400 600

GRAPHIC SCALE IN FEET



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

CORY S. HUGHES
LS-13065

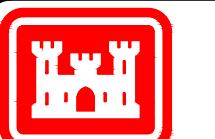
CORY S. HUGHES C.H. (245)



NOTES

1. PRIMARY PROJECT HORIZONTAL CONTROL IS ALASKA STATE PLANE, ZONE 6, NAD83 (2011), IN US SURVEY FEET BASED ON NGS PUBLISHED VALUES, HOLDING USC&GS STATION "DILLINGHAM 1947" (PID UV7691) AS N 1,849,383.08, E 1,551,809.45' AND USC&GS AZIMUTH MARK "DILLINGHAM AZ MK 1947" (PID UV7690) AS N 1,841,347.21, E 1,553,844.91'.
2. LOCAL PROJECT HORIZONTAL CONTROL IS ALASKA STATE PLANE, ZONE 6, NAD83 (2011), IN US SURVEY FEET HOLDING USACE DOMED BC "1277-3 1984" AS N 1,840,427.98, E 1,550,887.60'.
3. VERTICAL TIES TO THE NATIONAL SPATIAL REFERENCE SYSTEM ARE BASED ON PUBLISHED NAVD88 (GEOID 12B) ELEVATION HOLDING NOAA SS DRIVE ROD "5374 B 2007" (VM 18352 / PID BBBF17) AS 18.46'.
4. SOUNDINGS ARE IN FEET AND ARE MINUS UNLESS OTHERWISE INDICATED.
5. BATHYMETRY WAS COLLECTED MAY 11, 2020. SOUNDINGS WERE COLLECTED USING A CEESCOPE ECHO SOUNDER OPERATING AT 200 KHZ. SOUND VELOCITY THROUGH THE WATER COLUMN WAS DETERMINED WITH AN AML BASE X2 SOUND VELOCITY PROBE. POSITION AND TIDES WERE PROVIDED IN REAL TIME USING A TRIMBLE R8 RTK GPS RECEIVER OPERATING ON KINEMATICS CORRECTIONS BROADCAST FROM A TRIMBLE R8 RTK BASE RECEIVER SET AT CONTROL STATION "1277-3 1984". DATA WAS COLLECTED AND PROCESSED USING HYPACK 2020 SOFTWARE. HORIZONTAL AND VERTICAL CONTROL WAS SURVEYED USING STATIC GNSS EQUIPMENT AND TECHNIQUES.
6. THIS DRAWING INDICATES GENERAL CONDITIONS AT THE TIME OF THE SURVEY.
7. MAP SOUNDINGS, CONTOURS, COLOR RELIEF AND VOLUME COMPUTATIONS ARE BASED ON A 10 FOOT SORT.

SURVEY CONTROL DATA				
STATION	NORTHING	EASTING	MLLW	DESCRIPTION
1277-1 1984	1,841,622.39	1,550,745.71	32.1	3.25 IN. USACE SBC
1277-2 1984	1,840,494.00	1,550,879.74	30.9	3.25 IN. USACE SBC
1277-3 1984	1,840,427.98	1,550,887.60	30.21	3.25 IN. USACE SBC
5374 A 2007	1,840,570.45	1,553,897.99	25.6	STAINLESS STEEL ROD
5374 B 2007	1,840,590.75	1,553,629.48	24.9	STAINLESS STEEL ROD
DIL 1998	1,840,505.33	1,550,674.26	29.8	3.25 IN. AL CAP
DILLINGHAM 1947	1,849,383.08	1,551,809.45		3.5 IN. USCGS SBC
DILLINGHAM AZ MK	1,841,347.21	1,553,844.91		USCGS 2 IN. IRON PIPE
PICKEL 1998	1,841,509.51	1,550,437.81	28.8	3.25 IN. AL CAP
WDS-2 2001	1,841,419.33	1,549,910.66	22.8	3.25 IN. AL CAP



**US ARMY CORPS
OF ENGINEERS®
ALASKA DISTRICT**



U.S. ARMY CORPS OF ENGINEERS ALASKA DISTRICT 2204 3RD STREET JBER, ALASKA 99506-0898		SURVEYED BY: CSH & DCA	UPC: DIL004	CONTRACT NO.: W911KB20C0001
		DRAWN BY: DCA	PLOT DATE: 06/25/2020	TASK ORDER NO.:
		CHECKED BY: CSH	SIZE: ANSI D	SCALE: 1" = 50'
				JOB NO.:
		APPROVED BY: THOMAS SLOAN, CHIEF GEOMATICS SECTION		CONTRACTOR: ALASKA MARINE EXCAVATION
				CITY: STATE: ANCHOR POINT ALASKA
		HUGHES & ASSOCIATES 2970 E COTTLER LOOP WASILLA, ALASKA 99654	FILE: DILLINGHAM PRE DREDGE_20200611.DWG	

DILLINGHAM, ALASKA

DILLINGHAM HARBOR

PRE-DREDGE SURVEY

MAY 10 - 11, 2020

REFERENCE
NUMBER:

5-DIL-92-07-51

SHEET 2 OF 5



US ARMY CORPS
OF ENGINEERS®
ALASKA DISTRICT



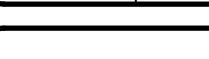
REFERENCE NUMBER:
5-DIL-92-07-51
SHEET 3 OF 5



US ARMY CORPS
OF ENGINEERS®
ALASKA DISTRICT

DESCRIPTION

CONTRACT NO.: W911KE20C0001
TASK ORDER NO.: 062520
JOB NO.: 1" = 50
CONTRACTOR: ALASKA MARINE EXCAVATION
CITY: ANCHOR POINT, ALASKA



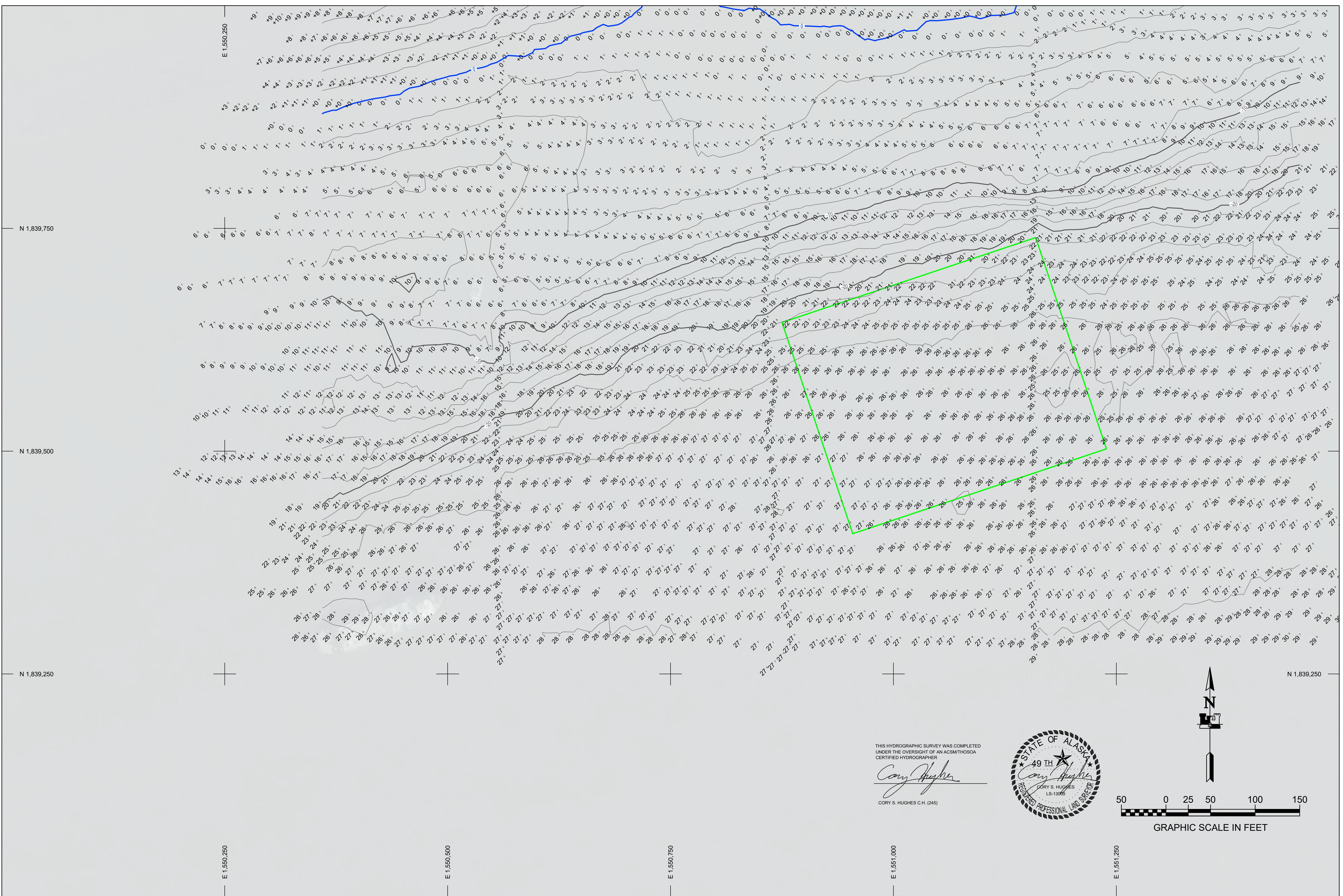
HUGHES & ASSOCIATES
2970 E COTTLE LOOP
WASILLA, ALASKA 99654

FILE: DILLINGHAM PRE-DREDGE 201611.DWG

MAY 10 - 11, 2020

DILLINGHAM, ALASKA
PRE-DREDGE SURVEY
MAY 10 - 11, 2020

REFERENCE NUMBER:
5-DIL-92-07-51
SHEET 4 OF 5



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

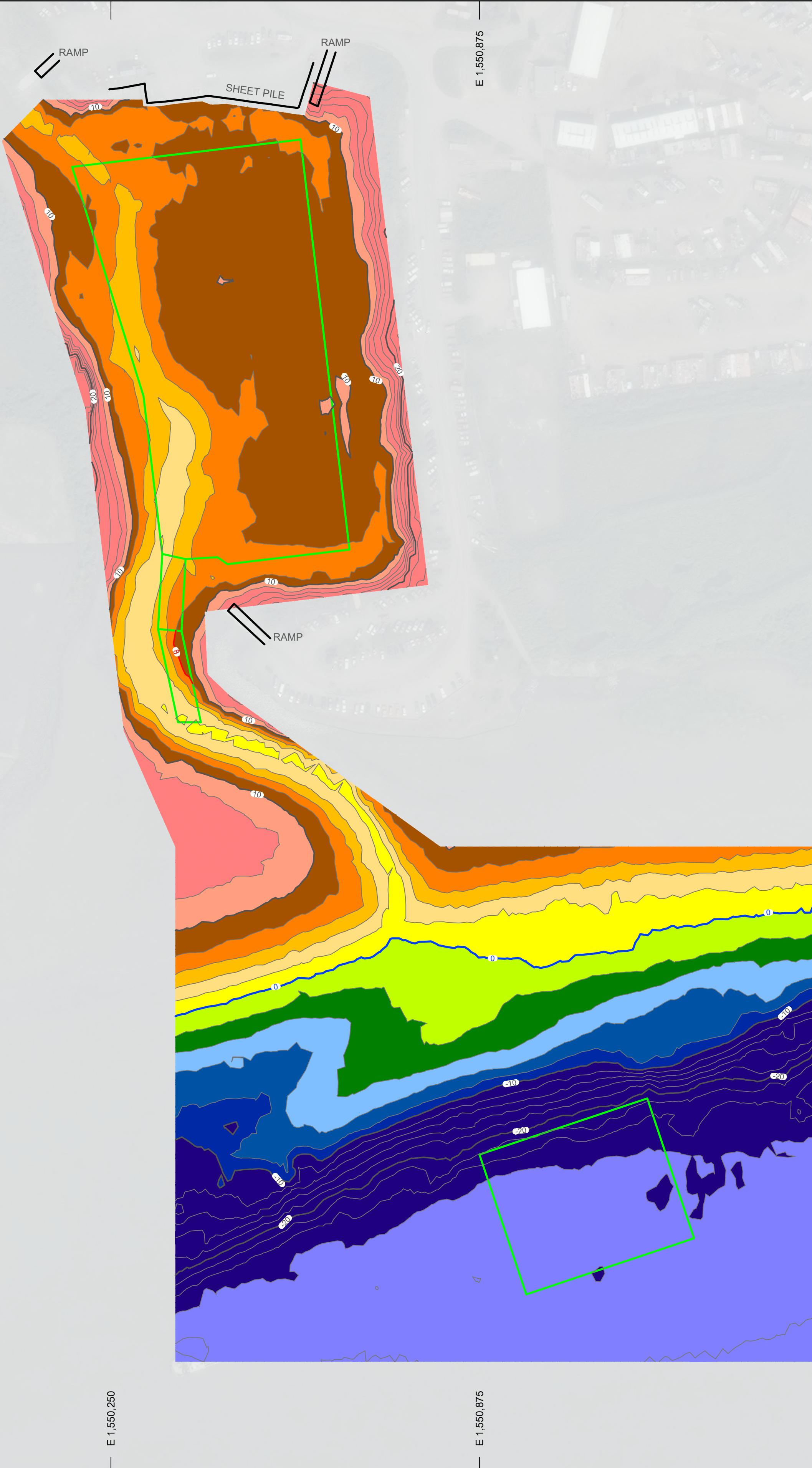
CORY S. HUGHES C.H. (245)



50 0 25 50 100 150

GRAPHIC SCALE IN FEET

E 1,551,250
E 1,550,750
E 1,550,250

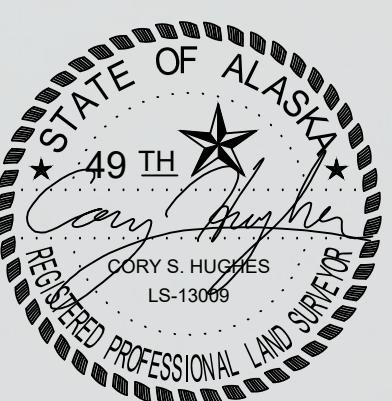


ELEVATION COLOR LEGEND

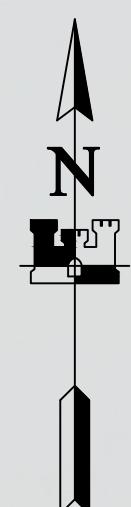
#	MIN. ELEV.	MAX. ELEV.	COLOR
1	-40.0	-26.0	
2	-26.0	-10.0	
3	-10.0	-8.0	
4	-8.0	-6.0	
5	-6.0	-4.0	
6	-4.0	-2.0	
7	-2.0	0.0	
8	0.0	2.0	
9	2.0	4.0	
10	4.0	6.0	
11	6.0	8.0	
12	8.0	10.0	
13	10.0	12.0	
14	12.0	40.0	

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

Cory Hughes



N 1 839 725 -



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GRAPHIC SCALE IN FEET

DILLINGHAM, ALASKA

DILLINGHAM HARBOR

